Appendix 5B3 Delta Operations

1 Results

The following results of the CalSim II model are included for Delta operations at key project locations for the following alternatives:

- No Action Alternative 051422
- Alternative 1A 051722
- Alternative 1B 051722
- Alternative 2 051722
- Alternative 3 051722

Table 5B3-1. Delta Operations Locations and Parameters

Section	Output Parameters	Table Numbers	Figure Numbers
Delta	Sacramento River Flow at Freeport	5B3-1-1a to 5B3-1-4c	5B3-1-1 to 5B3-1-18
Delta	DCC Flow	5B3-2-1a to 5B3-2-4c	5B3-2-1 to 5B3-2-18
Delta	Yolo Bypass Flow	5B3-3-1a to 5B3-3-4c	5B3-3-1 to 5B3-3-18
Delta	Sacramento River Flow at Rio Vista	5B3-4-1a to 5B3-4-4c	5B3-4-1 to 5B3-4-18
Delta	Delta Outflow	5B3-5-1a to 5B3-5-4c	5B3-5-1 to 5B3-5-18
Delta	Old and Middle River Flow	5B3-6-1a to 5B3-6-4c	5B3-6-1 to 5B3-6-18
Delta	San Joaquin River at Vernalis	5B3-7-1a to 5B3-7-4c	5B3-7-1 to 5B3-7-18
Delta	San Joaquin River at Vernalis (60-20-20)	5B3-8-1a to 5B3-8-4c	5B3-8-1 to 5B3-8-18

2 Report Formats

Reports include monthly tables, monthly pattern charts, and monthly exceedance charts. Monthly tables compare an alternative against the No Action alternative (exceedance values, long-term average, and average by water year type). Monthly pattern charts (long-term average and average by water year type) present all alternatives. Monthly exceedance charts (all months) present all alternatives.

Table 5B3-1-1a. Sacramento River Flow at Freeport, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	14,769	25,060	48,629	58,060	67,132	62,020	52,838	43,515	26,803	24,169	17,879	22,320
20% Exceedance	14,082	15,436	34,020	53,086	58,429	51,373	40,727	31,813	20,079	23,116	17,201	21,607
30% Exceedance	12,353	14,228	22,801	39,024	51,511	39,753	25,503	20,938	15,566	21,244	16,664	20,761
40% Exceedance	11,795	13,585	19,424	26,919	45,431	32,886	22,851	17,218	15,055	19,890	16,018	19,877
50% Exceedance	10,524	13,146	15,777	23,987	33,108	25,215	18,582	15,189	14,552	19,056	15,440	14,339
60% Exceedance	9,116	11,615	15,282	18,930	25,707	21,781	15,260	13,444	14,147	16,972	13,512	10,723
70% Exceedance	8,464	9,646	14,559	14,657	21,712	18,995	12,812	12,049	13,277	15,822	10,339	10,015
80% Exceedance	7,090	8,653	11,909	12,780	17,732	14,905	12,211	10,597	12,406	13,438	9,649	9,379
90% Exceedance	7,000	7,000	9,643	11,697	14,663	11,431	10,991	9,565	10,996	10,083	8,548	7,804
Full Simulation Period Average[a]	11,068	14,359	22,793	30,163	37,672	32,209	24,970	20,751	17,185	18,068	13,859	15,118
Wet Water Years (32%)	14,038	18,156	25,908	48,604	56,569	49,188	40,251	33,461	23,936	19,381	16,536	21,337
Above Normal Water Years (15%)	12,192	15,926	23,396	36,672	44,437	43,369	27,475	23,421	16,743	21,473	16,963	21,226
Below Normal Water Years (17%)	12,021	15,161	26,156	22,358	33,251	22,267	19,429	16,222	14,485	21,112	15,711	12,412
Dry Water Years (22%)	7,748	11,618	22,224	16,351	23,302	20,376	14,518	12,138	14,206	16,746	9,886	9,546
Critical Water Years (15%)	7,376	7,740	12,374	13,524	16,675	13,611	11,501	8,743	10,621	10,249	8,751	7,051

Table 5B3-1-1b. Sacramento River Flow at Freeport, Alternative 1A 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	14,768	23,447	48,177	56,599	66,721	62,018	52,556	43,386	26,150	24,170	17,863	22,602
20% Exceedance	13,985	15,381	32,503	50,580	57,391	49,721	40,727	31,794	20,078	23,173	17,230	21,626
30% Exceedance	12,561	14,275	22,237	37,513	49,955	37,942	25,518	20,936	15,578	21,249	16,731	20,883
40% Exceedance	11,772	13,585	18,709	25,959	43,707	31,601	22,839	17,218	15,069	20,146	16,081	20,015
50% Exceedance	10,592	13,146	15,778	22,445	31,816	24,418	18,605	15,239	14,555	19,127	15,426	14,323
60% Exceedance	10,139	11,933	15,351	18,933	25,332	21,010	15,243	13,443	14,128	18,087	14,090	11,328
70% Exceedance	9,548	10,869	14,585	14,658	21,519	18,889	12,990	12,049	13,336	16,085	11,765	10,838
80% Exceedance	8,762	9,544	11,940	12,793	18,143	14,932	12,217	10,635	12,425	14,374	11,097	10,181
90% Exceedance	7,371	7,174	9,690	11,712	14,675	11,451	11,047	9,572	10,996	11,169	10,418	8,797
Full Simulation Period Average[a]	11,449	14,486	22,371	29,686	37,151	31,710	24,791	20,720	17,192	18,433	14,386	15,547
Wet Water Years (32%)	13,997	17,940	25,618	48,156	56,136	48,895	39,778	33,296	23,946	19,393	16,547	21,443
Above Normal Water Years (15%)	12,362	15,921	22,780	35,544	43,405	42,466	27,515	23,385	16,707	21,531	16,991	21,271
Below Normal Water Years (17%)	12,277	15,414	25,461	21,817	32,642	21,761	19,179	16,229	14,512	21,150	15,818	12,634
Dry Water Years (22%)	8,898	12,174	21,674	16,148	22,720	19,699	14,553	12,208	14,208	17,701	11,259	10,543
Critical Water Years (15%)	7,874	7,951	12,364	13,300	16,671	13,344	11,502	8,815	10,644	11,181	10,117	7,952

Table 5B3-1-1c. Sacramento River Flow at Freeport, Alternative 1A 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-1	-1,613	-452	-1,460	-411	-2	-282	-129	-653	1	-16	282
20% Exceedance	-96	-55	-1,517	-2,505	-1,038	-1,652	-1	-19	0	57	29	19
30% Exceedance	208	47	-564	-1,511	-1,556	-1,811	15	-2	11	5	67	122
40% Exceedance	-23	0	-716	-960	-1,724	-1,285	-12	1	14	256	63	138
50% Exceedance	68	0	1	-1,542	-1,292	-797	23	50	3	71	-14	-16
60% Exceedance	1,023	318	69	4	-375	-771	-17	0	-19	1,115	578	604
70% Exceedance	1,084	1,222	26	1	-193	-106	177	0	59	264	1,426	822
80% Exceedance	1,672	891	31	13	411	28	5	38	19	936	1,448	802
90% Exceedance	371	174	47	14	12	20	56	6	0	1,086	1,870	993
Full Simulation Period Average[a]	381	127	-423	-477	-521	-499	-179	-30	6	365	527	429
Wet Water Years (32%)	-41	-216	-290	-448	-433	-293	-473	-165	10	12	11	106
Above Normal Water Years (15%)	170	-6	-616	-1,128	-1,033	-903	40	-35	-36	58	29	45
Below Normal Water Years (17%)	256	253	-694	-542	-609	-506	-250	7	27	38	107	222
Dry Water Years (22%)	1,150	556	-550	-203	-582	-677	35	70	2	955	1,373	997
Critical Water Years (15%)	498	211	-10	-225	-4	-267	1	72	23	932	1,367	902

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-1-2a. Sacramento River Flow at Freeport, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	14,769	25,060	48,629	58,060	67,132	62,020	52,838	43,515	26,803	24,169	17,879	22,320
20% Exceedance	14,082	15,436	34,020	53,086	58,429	51,373	40,727	31,813	20,079	23,116	17,201	21,607
30% Exceedance	12,353	14,228	22,801	39,024	51,511	39,753	25,503	20,938	15,566	21,244	16,664	20,761
40% Exceedance	11,795	13,585	19,424	26,919	45,431	32,886	22,851	17,218	15,055	19,890	16,018	19,877
50% Exceedance	10,524	13,146	15,777	23,987	33,108	25,215	18,582	15,189	14,552	19,056	15,440	14,339
60% Exceedance	9,116	11,615	15,282	18,930	25,707	21,781	15,260	13,444	14,147	16,972	13,512	10,723
70% Exceedance	8,464	9,646	14,559	14,657	21,712	18,995	12,812	12,049	13,277	15,822	10,339	10,015
80% Exceedance	7,090	8,653	11,909	12,780	17,732	14,905	12,211	10,597	12,406	13,438	9,649	9,379
90% Exceedance	7,000	7,000	9,643	11,697	14,663	11,431	10,991	9,565	10,996	10,083	8,548	7,804
Full Simulation Period Average[a]	11,068	14,359	22,793	30,163	37,672	32,209	24,970	20,751	17,185	18,068	13,859	15,118
Wet Water Years (32%)	14,038	18,156	25,908	48,604	56,569	49,188	40,251	33,461	23,936	19,381	16,536	21,337
Above Normal Water Years (15%)	12,192	15,926	23,396	36,672	44,437	43,369	27,475	23,421	16,743	21,473	16,963	21,226
Below Normal Water Years (17%)	12,021	15,161	26,156	22,358	33,251	22,267	19,429	16,222	14,485	21,112	15,711	12,412
Dry Water Years (22%)	7,748	11,618	22,224	16,351	23,302	20,376	14,518	12,138	14,206	16,746	9,886	9,546
Critical Water Years (15%)	7,376	7,740	12,374	13,524	16,675	13,611	11,501	8,743	10,621	10,249	8,751	7,051

Table 5B3-1-2b. Sacramento River Flow at Freeport, Alternative 1B 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	14,769	23,392	48,017	55,881	66,575	62,005	52,556	43,394	26,151	24,170	17,882	22,455
20% Exceedance	13,985	15,383	32,722	50,573	57,420	49,443	40,725	31,791	19,775	23,223	17,287	21,676
30% Exceedance	12,689	14,275	22,332	37,522	50,184	37,941	25,537	21,205	15,566	21,251	16,713	21,133
40% Exceedance	11,835	13,585	18,556	25,891	44,455	31,602	22,842	17,218	15,062	20,082	16,081	20,064
50% Exceedance	10,674	13,146	15,771	22,398	31,835	24,419	18,327	15,191	14,606	19,103	15,411	14,517
60% Exceedance	10,151	12,076	15,288	18,935	25,259	21,022	15,243	13,443	14,128	18,087	14,235	11,436
70% Exceedance	9,514	11,012	14,590	14,661	21,518	18,277	12,989	12,252	13,336	16,440	11,743	10,833
80% Exceedance	8,938	9,339	11,958	12,795	18,082	14,932	12,217	10,627	12,326	14,375	10,867	10,150
90% Exceedance	7,257	7,193	9,832	11,701	14,675	11,666	10,819	9,617	11,092	11,149	10,175	8,801
Full Simulation Period Average[a]	11,491	14,482	22,415	29,622	37,204	31,692	24,777	20,797	17,169	18,439	14,362	15,574
Wet Water Years (32%)	14,029	17,816	25,571	48,018	56,217	48,783	39,750	33,488	23,919	19,412	16,572	21,443
Above Normal Water Years (15%)	12,499	15,962	22,869	35,514	43,502	42,406	27,543	23,487	16,645	21,548	16,998	21,377
Below Normal Water Years (17%)	12,284	15,643	25,582	21,736	32,630	21,772	19,195	16,219	14,484	21,194	15,823	12,714
Dry Water Years (22%)	8,989	12,136	21,786	16,134	22,779	19,660	14,504	12,228	14,230	17,698	11,149	10,561
Critical Water Years (15%)	7,814	7,941	12,374	13,300	16,681	13,566	11,488	8,801	10,613	11,122	10,054	7,911

Table 5B3-1-2c. Sacramento River Flow at Freeport, Alternative 1B 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1	-1,668	-612	-2,179	-557	-15	-283	-121	-652	1	2	136
20% Exceedance	-97	-53	-1,298	-2,512	-1,009	-1,930	-3	-21	-304	107	86	69
30% Exceedance	337	47	-469	-1,502	-1,327	-1,812	33	268	0	6	49	372
40% Exceedance	39	0	-869	-1,028	-976	-1,284	-9	1	8	192	63	187
50% Exceedance	149	0	-6	-1,588	-1,272	-797	-255	2	54	46	-29	177
60% Exceedance	1,035	461	6	5	-448	-759	-16	0	-19	1,115	724	713
70% Exceedance	1,050	1,365	31	4	-194	-718	177	203	59	619	1,404	817
80% Exceedance	1,849	686	49	15	351	28	5	31	-80	937	1,218	771
90% Exceedance	257	193	189	4	12	234	-171	52	96	1,066	1,626	997
Full Simulation Period Average[a]	423	123	-378	-542	-468	-518	-194	46	-16	371	503	456
Wet Water Years (32%)	-9	-340	-337	-585	-352	-405	-501	27	-17	30	35	107
Above Normal Water Years (15%)	306	36	-527	-1,158	-935	-962	68	66	-98	75	35	151
Below Normal Water Years (17%)	263	481	-573	-622	-621	-496	-235	-3	-1	82	112	302
Dry Water Years (22%)	1,241	518	-438	-216	-523	-716	-14	89	23	953	1,263	1,015
Critical Water Years (15%)	438	201	-1	-225	6	-44	-13	58	-8	873	1,303	861

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-1-3a. Sacramento River Flow at Freeport, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	14,769	25,060	48,629	58,060	67,132	62,020	52,838	43,515	26,803	24,169	17,879	22,320
20% Exceedance	14,082	15,436	34,020	53,086	58,429	51,373	40,727	31,813	20,079	23,116	17,201	21,607
30% Exceedance	12,353	14,228	22,801	39,024	51,511	39,753	25,503	20,938	15,566	21,244	16,664	20,761
40% Exceedance	11,795	13,585	19,424	26,919	45,431	32,886	22,851	17,218	15,055	19,890	16,018	19,877
50% Exceedance	10,524	13,146	15,777	23,987	33,108	25,215	18,582	15,189	14,552	19,056	15,440	14,339
60% Exceedance	9,116	11,615	15,282	18,930	25,707	21,781	15,260	13,444	14,147	16,972	13,512	10,723
70% Exceedance	8,464	9,646	14,559	14,657	21,712	18,995	12,812	12,049	13,277	15,822	10,339	10,015
80% Exceedance	7,090	8,653	11,909	12,780	17,732	14,905	12,211	10,597	12,406	13,438	9,649	9,379
90% Exceedance	7,000	7,000	9,643	11,697	14,663	11,431	10,991	9,565	10,996	10,083	8,548	7,804
Full Simulation Period Average[a]	11,068	14,359	22,793	30,163	37,672	32,209	24,970	20,751	17,185	18,068	13,859	15,118
Wet Water Years (32%)	14,038	18,156	25,908	48,604	56,569	49,188	40,251	33,461	23,936	19,381	16,536	21,337
Above Normal Water Years (15%)	12,192	15,926	23,396	36,672	44,437	43,369	27,475	23,421	16,743	21,473	16,963	21,226
Below Normal Water Years (17%)	12,021	15,161	26,156	22,358	33,251	22,267	19,429	16,222	14,485	21,112	15,711	12,412
Dry Water Years (22%)	7,748	11,618	22,224	16,351	23,302	20,376	14,518	12,138	14,206	16,746	9,886	9,546
Critical Water Years (15%)	7,376	7,740	12,374	13,524	16,675	13,611	11,501	8,743	10,621	10,249	8,751	7,051

Table 5B3-1-3b. Sacramento River Flow at Freeport, Alternative 2 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	14,768	23,447	48,177	56,634	67,134	62,016	52,562	43,394	26,151	24,170	17,863	22,455
20% Exceedance	13,985	15,373	32,519	50,580	57,272	49,948	40,726	31,795	20,081	23,174	17,230	21,626
30% Exceedance	12,560	14,275	22,236	37,513	49,965	37,942	25,518	20,935	15,578	21,249	16,734	20,991
40% Exceedance	11,772	13,585	18,708	25,918	43,450	31,602	22,834	17,218	15,069	20,146	16,081	20,015
50% Exceedance	10,620	13,146	15,778	22,466	31,815	24,418	18,605	15,239	14,555	19,168	15,425	14,323
60% Exceedance	10,055	11,935	15,350	18,933	25,340	21,010	15,243	13,443	14,128	18,059	14,104	11,325
70% Exceedance	9,414	11,010	14,585	14,658	21,519	18,889	12,990	12,049	13,336	16,085	11,736	10,837
80% Exceedance	8,813	9,152	11,946	12,793	18,167	14,932	12,217	10,635	12,425	14,374	10,998	10,124
90% Exceedance	7,271	7,179	9,689	11,712	14,675	11,451	11,047	9,572	11,003	11,166	10,265	8,759
Full Simulation Period Average[a]	11,435	14,473	22,383	29,689	37,157	31,752	24,787	20,721	17,192	18,434	14,365	15,506
Wet Water Years (32%)	13,998	17,942	25,615	48,167	56,199	49,011	39,777	33,299	23,946	19,393	16,548	21,450
Above Normal Water Years (15%)	12,366	15,921	22,843	35,550	43,355	42,497	27,492	23,385	16,707	21,531	16,991	21,275
Below Normal Water Years (17%)	12,261	15,412	25,462	21,801	32,596	21,765	19,177	16,229	14,507	21,191	15,861	12,595
Dry Water Years (22%)	8,855	12,116	21,681	16,148	22,722	19,700	14,553	12,208	14,209	17,699	11,251	10,467
Critical Water Years (15%)	7,856	7,950	12,378	13,306	16,678	13,343	11,502	8,815	10,647	11,145	9,938	7,813

Table 5B3-1-3c. Sacramento River Flow at Freeport, Alternative 2 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-1	-1,613	-452	-1,426	2	-4	-277	-121	-652	1	-16	136
20% Exceedance	-97	-63	-1,501	-2,506	-1,157	-1,425	-1	-18	2	57	29	19
30% Exceedance	208	47	-565	-1,511	-1,546	-1,811	14	-2	11	5	71	230
40% Exceedance	-23	0	-716	-1,001	-1,981	-1,284	-17	1	14	256	63	138
50% Exceedance	95	0	1	-1,521	-1,292	-797	23	49	3	112	-15	-16
60% Exceedance	939	320	68	3	-367	-771	-17	0	-19	1,087	593	601
70% Exceedance	950	1,364	26	1	-193	-106	177	0	59	264	1,397	822
80% Exceedance	1,723	499	37	13	435	28	5	38	19	936	1,349	744
90% Exceedance	271	179	46	15	12	19	56	6	7	1,083	1,717	956
Full Simulation Period Average[a]	367	114	-411	-474	-514	-457	-183	-29	6	366	507	388
Wet Water Years (32%)	-41	-214	-293	-437	-370	-178	-474	-162	11	12	11	114
Above Normal Water Years (15%)	174	-5	-553	-1,122	-1,082	-872	17	-35	-36	58	29	49
Below Normal Water Years (17%)	240	251	-694	-557	-655	-502	-253	7	23	79	150	183
Dry Water Years (22%)	1,107	498	-542	-203	-580	-676	35	70	3	954	1,365	920
Critical Water Years (15%)	480	210	3	-219	3	-268	1	72	26	896	1,187	762

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-1-4a. Sacramento River Flow at Freeport, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	14,769	25,060	48,629	58,060	67,132	62,020	52,838	43,515	26,803	24,169	17,879	22,320
20% Exceedance	14,082	15,436	34,020	53,086	58,429	51,373	40,727	31,813	20,079	23,116	17,201	21,607
30% Exceedance	12,353	14,228	22,801	39,024	51,511	39,753	25,503	20,938	15,566	21,244	16,664	20,761
40% Exceedance	11,795	13,585	19,424	26,919	45,431	32,886	22,851	17,218	15,055	19,890	16,018	19,877
50% Exceedance	10,524	13,146	15,777	23,987	33,108	25,215	18,582	15,189	14,552	19,056	15,440	14,339
60% Exceedance	9,116	11,615	15,282	18,930	25,707	21,781	15,260	13,444	14,147	16,972	13,512	10,723
70% Exceedance	8,464	9,646	14,559	14,657	21,712	18,995	12,812	12,049	13,277	15,822	10,339	10,015
80% Exceedance	7,090	8,653	11,909	12,780	17,732	14,905	12,211	10,597	12,406	13,438	9,649	9,379
90% Exceedance	7,000	7,000	9,643	11,697	14,663	11,431	10,991	9,565	10,996	10,083	8,548	7,804
Full Simulation Period Average[a]	11,068	14,359	22,793	30,163	37,672	32,209	24,970	20,751	17,185	18,068	13,859	15,118
Wet Water Years (32%)	14,038	18,156	25,908	48,604	56,569	49,188	40,251	33,461	23,936	19,381	16,536	21,337
Above Normal Water Years (15%)	12,192	15,926	23,396	36,672	44,437	43,369	27,475	23,421	16,743	21,473	16,963	21,226
Below Normal Water Years (17%)	12,021	15,161	26,156	22,358	33,251	22,267	19,429	16,222	14,485	21,112	15,711	12,412
Dry Water Years (22%)	7,748	11,618	22,224	16,351	23,302	20,376	14,518	12,138	14,206	16,746	9,886	9,546
Critical Water Years (15%)	7,376	7,740	12,374	13,524	16,675	13,611	11,501	8,743	10,621	10,249	8,751	7,051

Table 5B3-1-4b. Sacramento River Flow at Freeport, Alternative 3 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	15,202	23,445	48,257	55,864	66,536	62,023	52,576	43,427	26,153	24,416	17,886	22,564
20% Exceedance	14,341	16,334	32,725	50,602	58,033	49,276	40,608	31,768	19,775	23,280	17,119	21,723
30% Exceedance	13,033	14,446	22,330	37,575	51,370	37,974	25,666	20,938	15,535	21,138	16,694	20,869
40% Exceedance	12,034	13,669	18,708	26,208	44,164	31,472	22,870	17,218	15,018	20,092	16,047	19,971
50% Exceedance	11,003	13,259	15,759	22,394	31,818	24,419	18,501	15,247	14,555	19,120	15,413	14,597
60% Exceedance	10,329	12,334	15,331	18,932	25,262	20,762	15,025	13,464	14,127	17,813	14,182	11,241
70% Exceedance	9,587	10,988	14,290	14,600	21,516	18,992	12,989	12,321	13,241	16,178	11,795	10,782
80% Exceedance	8,383	9,433	12,184	12,798	17,964	14,903	12,213	10,621	12,304	14,379	10,668	9,956
90% Exceedance	7,425	7,334	9,641	11,706	14,680	11,647	10,633	9,617	11,218	11,139	9,607	8,555
Full Simulation Period Average[a]	11,612	14,730	22,544	29,640	37,195	31,630	24,738	20,816	17,148	18,460	14,290	15,460
Wet Water Years (32%)	14,015	17,884	25,633	48,051	56,082	48,671	39,667	33,443	23,918	19,415	16,574	21,424
Above Normal Water Years (15%)	12,881	16,524	22,805	35,575	43,667	42,309	27,403	23,695	16,582	21,606	17,010	21,369
Below Normal Water Years (17%)	12,865	16,329	25,749	21,692	32,719	21,515	19,164	16,245	14,426	21,198	15,806	12,657
Dry Water Years (22%)	8,864	12,262	22,104	16,137	22,778	19,788	14,561	12,226	14,247	17,796	11,018	10,419
Critical Water Years (15%)	7,800	7,938	12,509	13,340	16,647	13,592	11,495	8,797	10,575	11,048	9,761	7,462

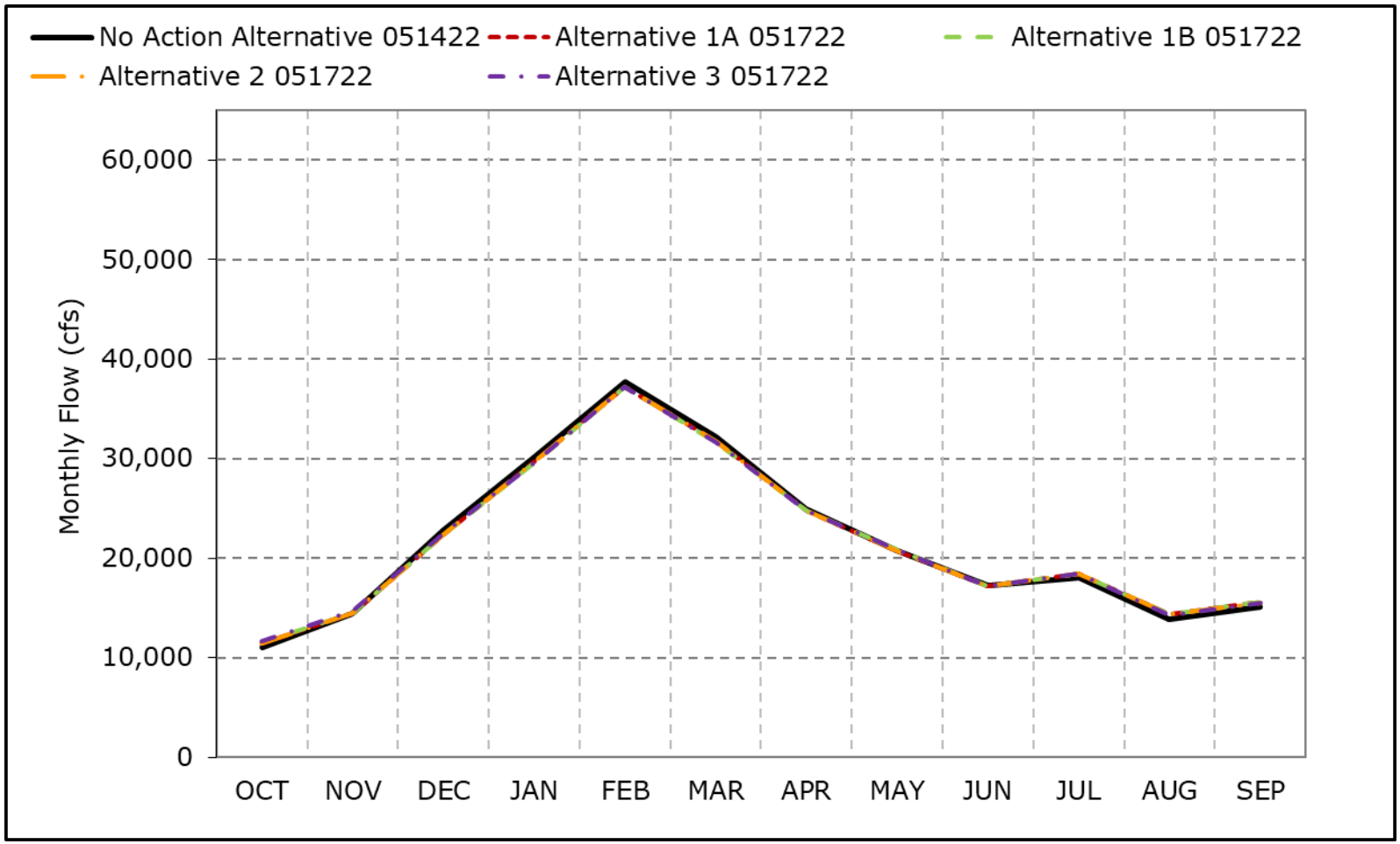
Table 5B3-1-4c. Sacramento River Flow at Freeport, Alternative 3 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	434	-1,615	-372	-2,195	-596	3	-263	-88	-650	247	7	244
20% Exceedance	259	898	-1,296	-2,484	-397	-2,098	-119	-45	-304	164	-82	116
30% Exceedance	681	218	-471	-1,448	-141	-1,779	163	0	-31	-106	31	108
40% Exceedance	238	84	-716	-711	-1,267	-1,414	19	1	-36	202	29	94
50% Exceedance	478	113	-18	-1,593	-1,289	-796	-80	57	3	64	-26	257
60% Exceedance	1,213	718	48	2	-445	-1,019	-234	21	-20	841	670	518
70% Exceedance	1,123	1,342	-269	-57	-196	-4	177	272	-36	356	1,456	767
80% Exceedance	1,293	780	275	18	232	-2	2	25	-102	942	1,019	576
90% Exceedance	425	334	-2	9	17	215	-357	52	222	1,057	1,058	751
Full Simulation Period Average[a]	544	371	-250	-523	-477	-579	-233	65	-37	392	432	342
Wet Water Years (32%)	-24	-272	-276	-553	-486	-518	-584	-18	-17	34	38	87
Above Normal Water Years (15%)	688	598	-591	-1,097	-770	-1,060	-73	274	-161	132	47	143
Below Normal Water Years (17%)	844	1,167	-407	-666	-532	-752	-265	23	-59	86	95	245
Dry Water Years (22%)	1,116	644	-119	-214	-524	-588	43	88	41	1,050	1,133	873
Critical Water Years (15%)	425	198	135	-185	-29	-18	-6	54	-47	799	1,010	411

[a] Based on the 82-year simulation period.

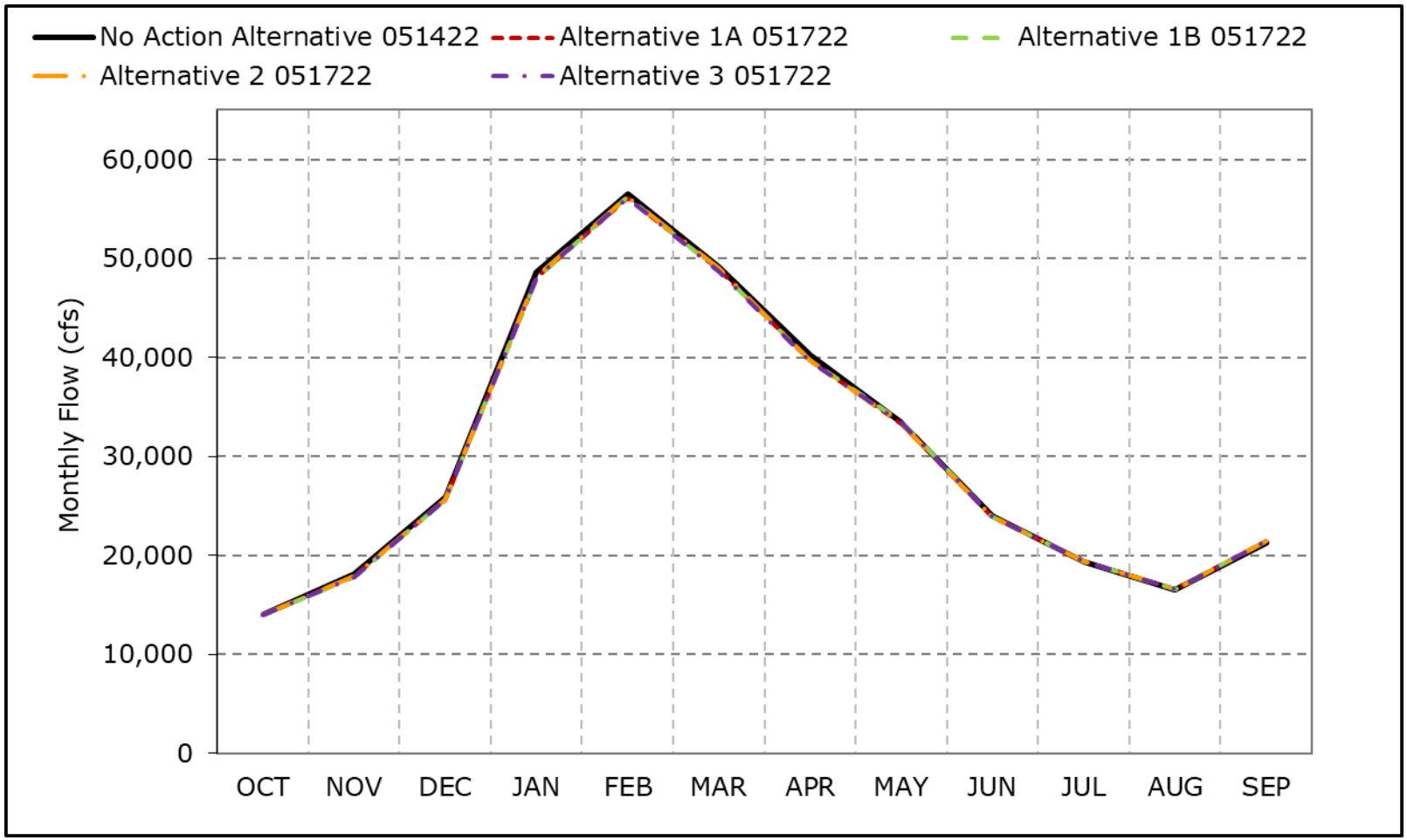
* All scenarios are simulated at current climate condition and 0 cm sea level rise.
* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* Water Year Types results are displayed with calendar year - year type sorting.

Figure 5B3-1-1. Sacramento River Flow at Freeport, Long-Term Average Flow



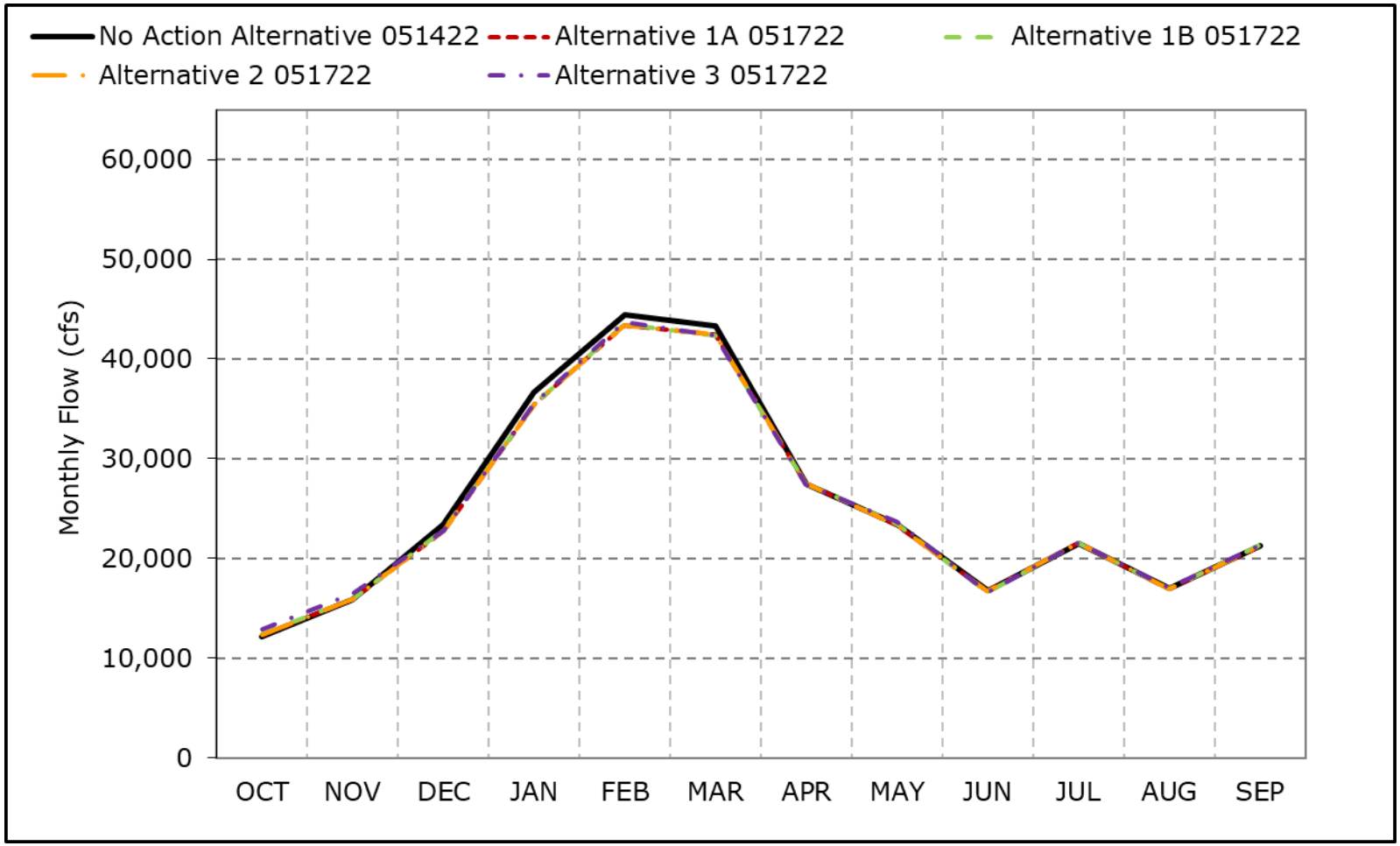
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-1-2. Sacramento River Flow at Freeport, Wet Year Average Flow



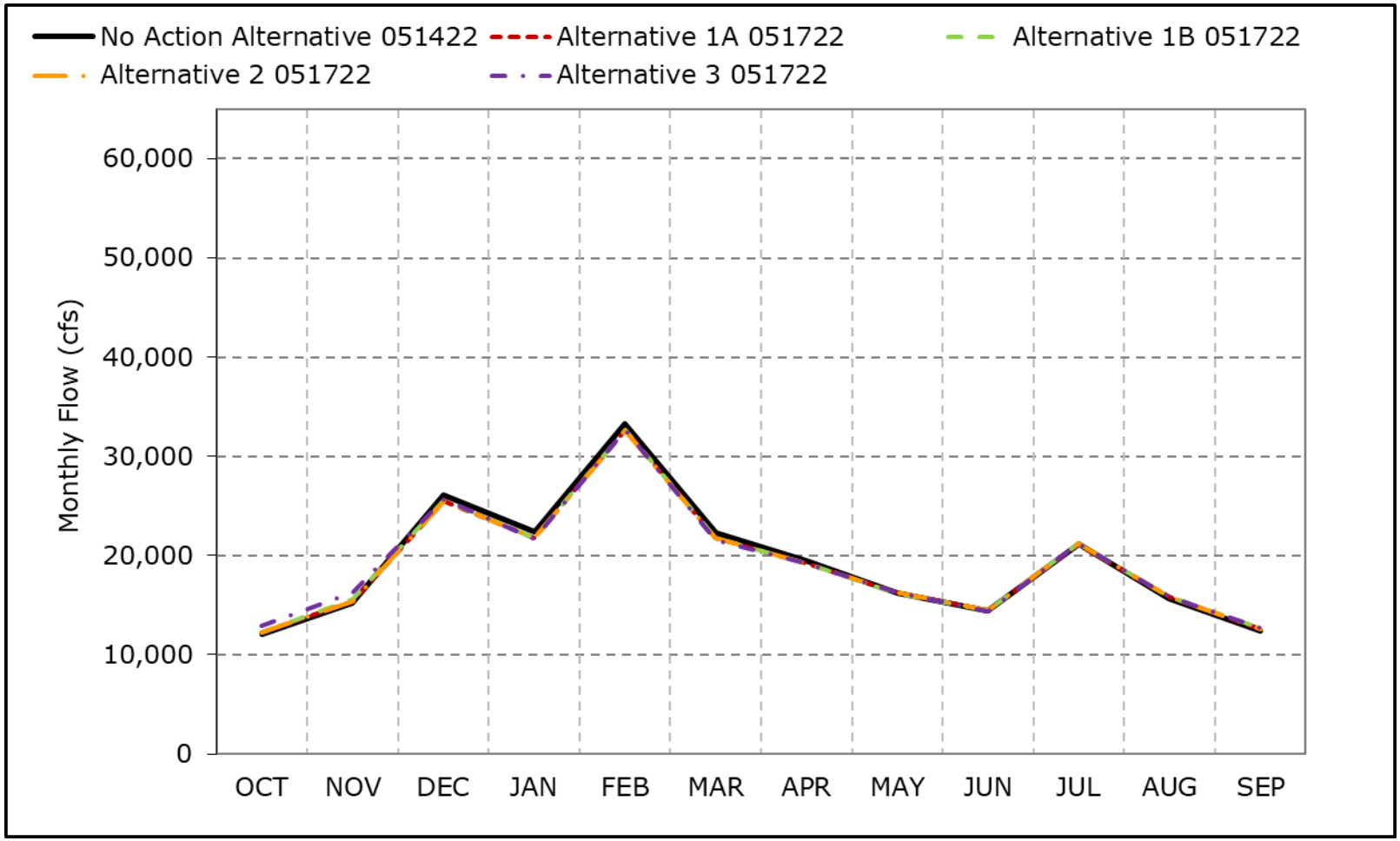
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-1-3. Sacramento River Flow at Freeport, Above Normal Year Average Flow



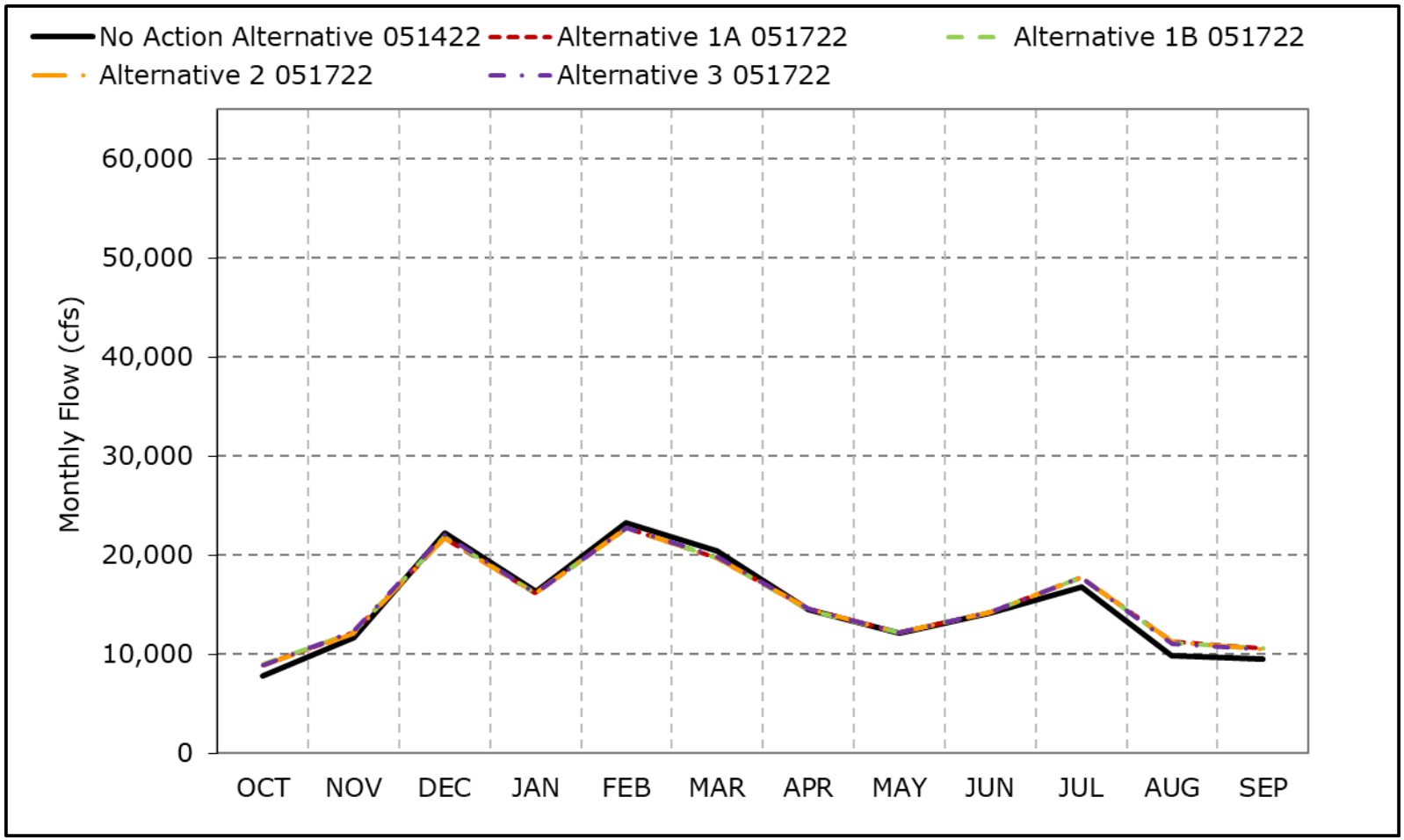
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-1-4. Sacramento River Flow at Freeport, Below Normal Year Average Flow



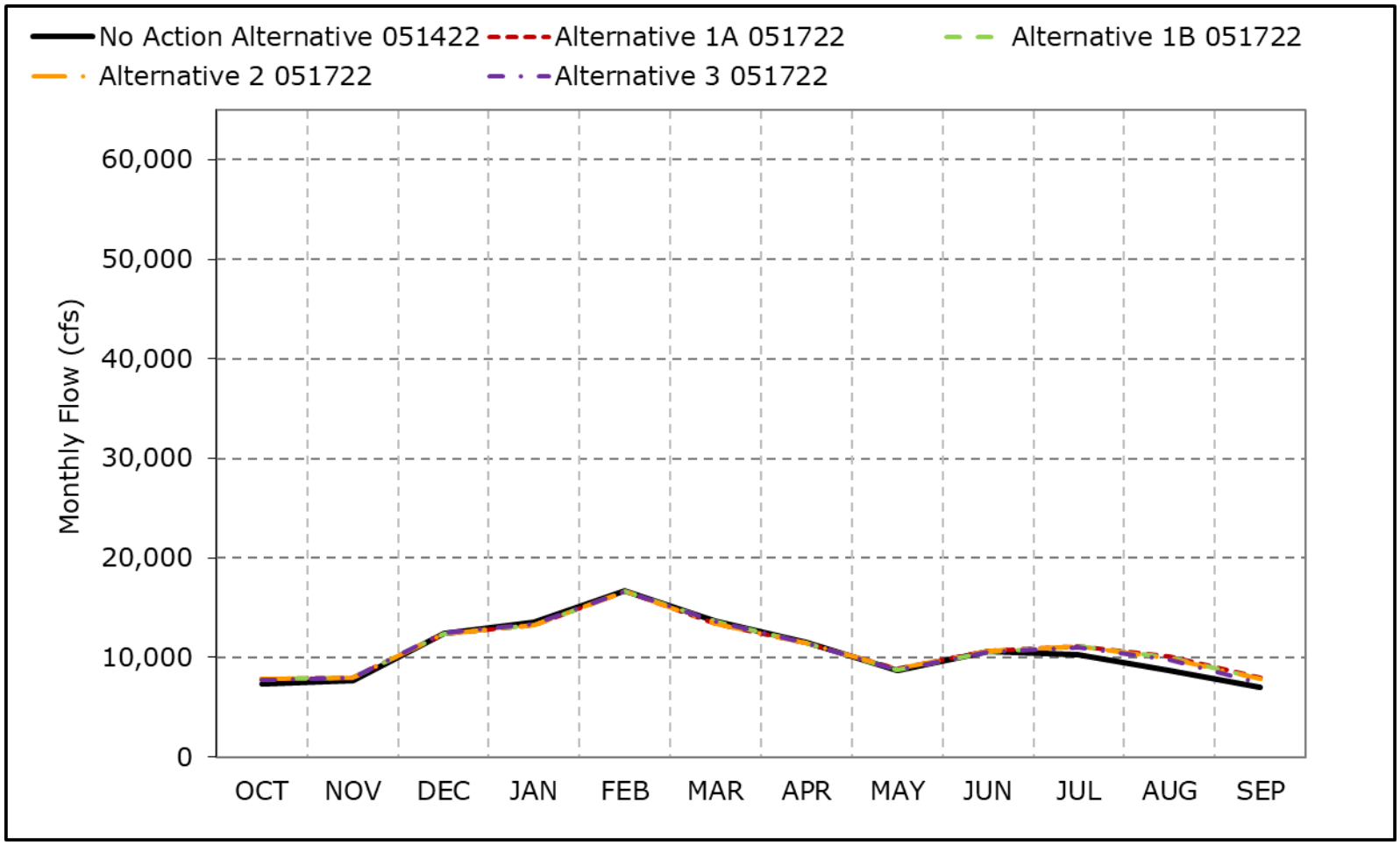
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-1-5. Sacramento River Flow at Freeport, Dry Year Average Flow



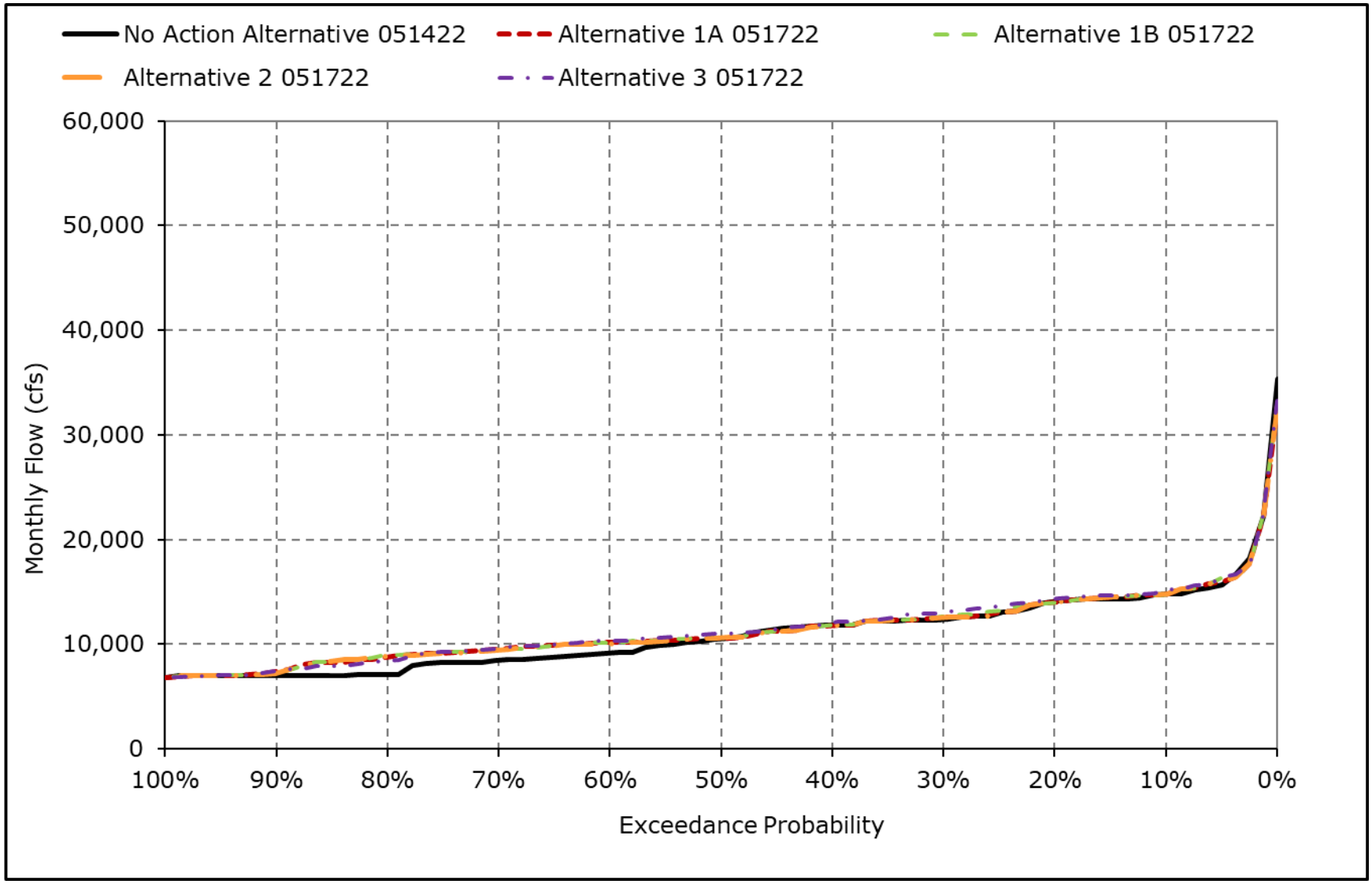
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-1-6. Sacramento River Flow at Freeport, Critical Year Average Flow



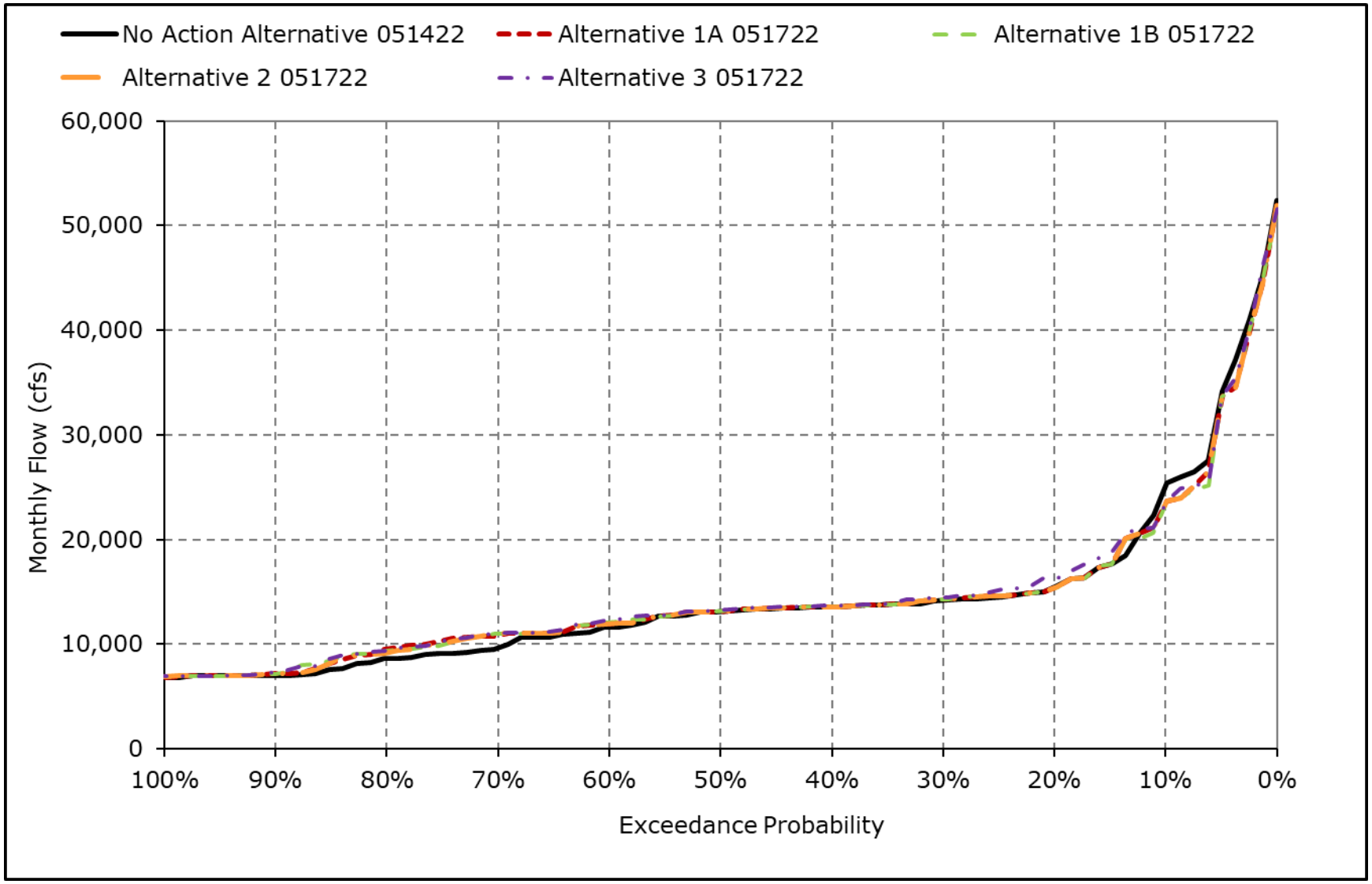
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-1-7. Sacramento River Flow at Freeport, October



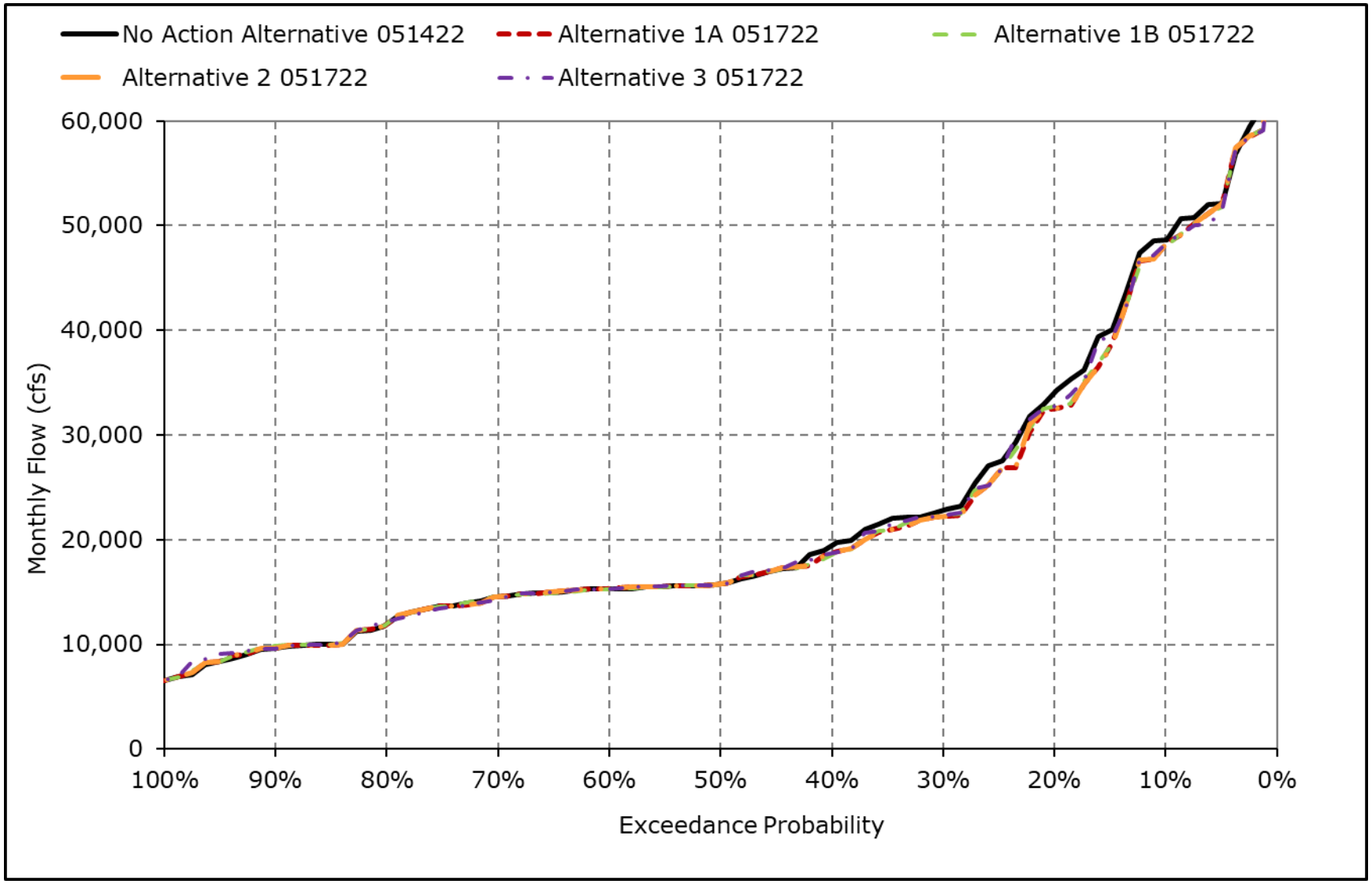
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-1-8. Sacramento River Flow at Freeport, November



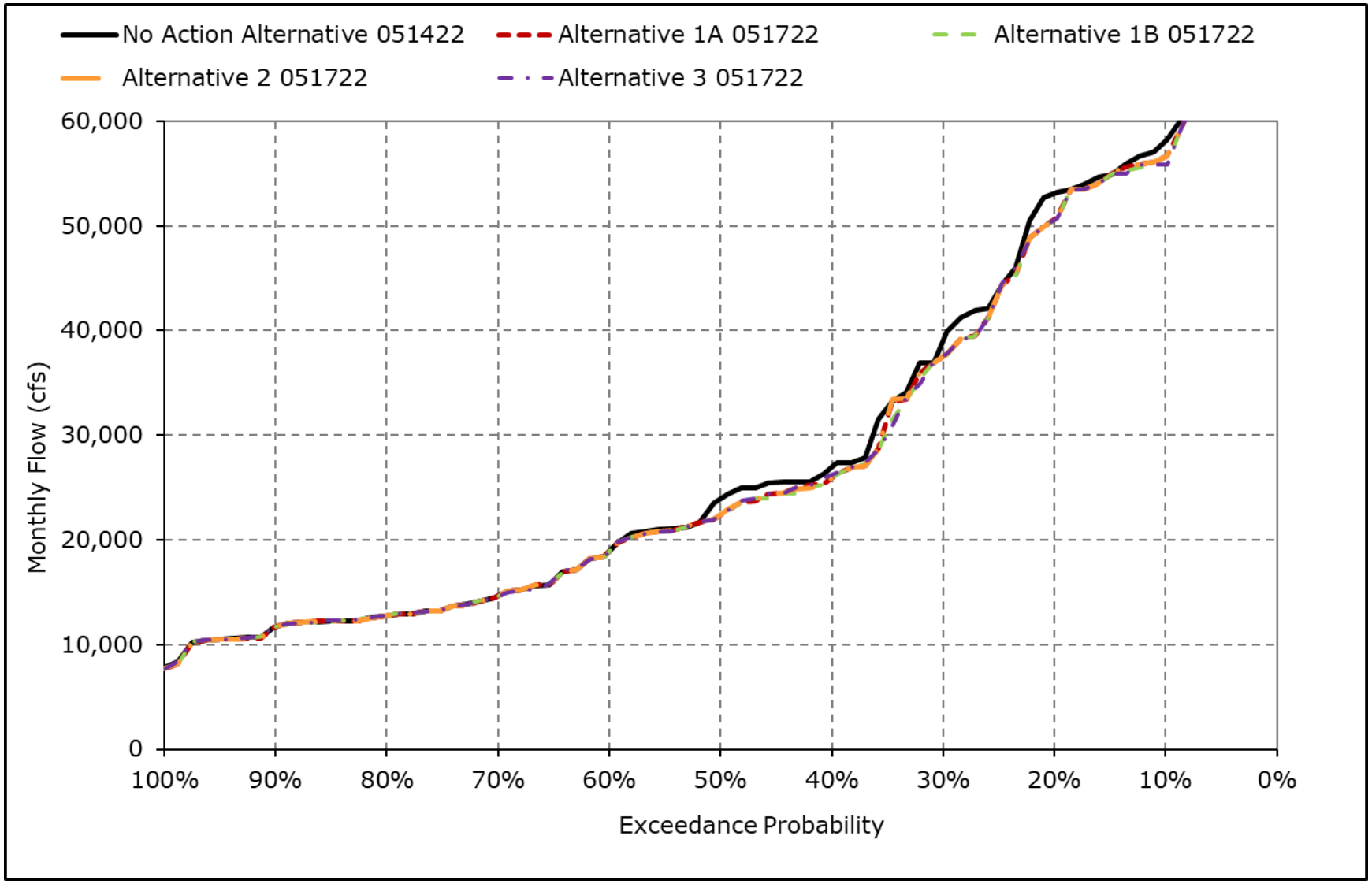
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-1-9. Sacramento River Flow at Freeport, December



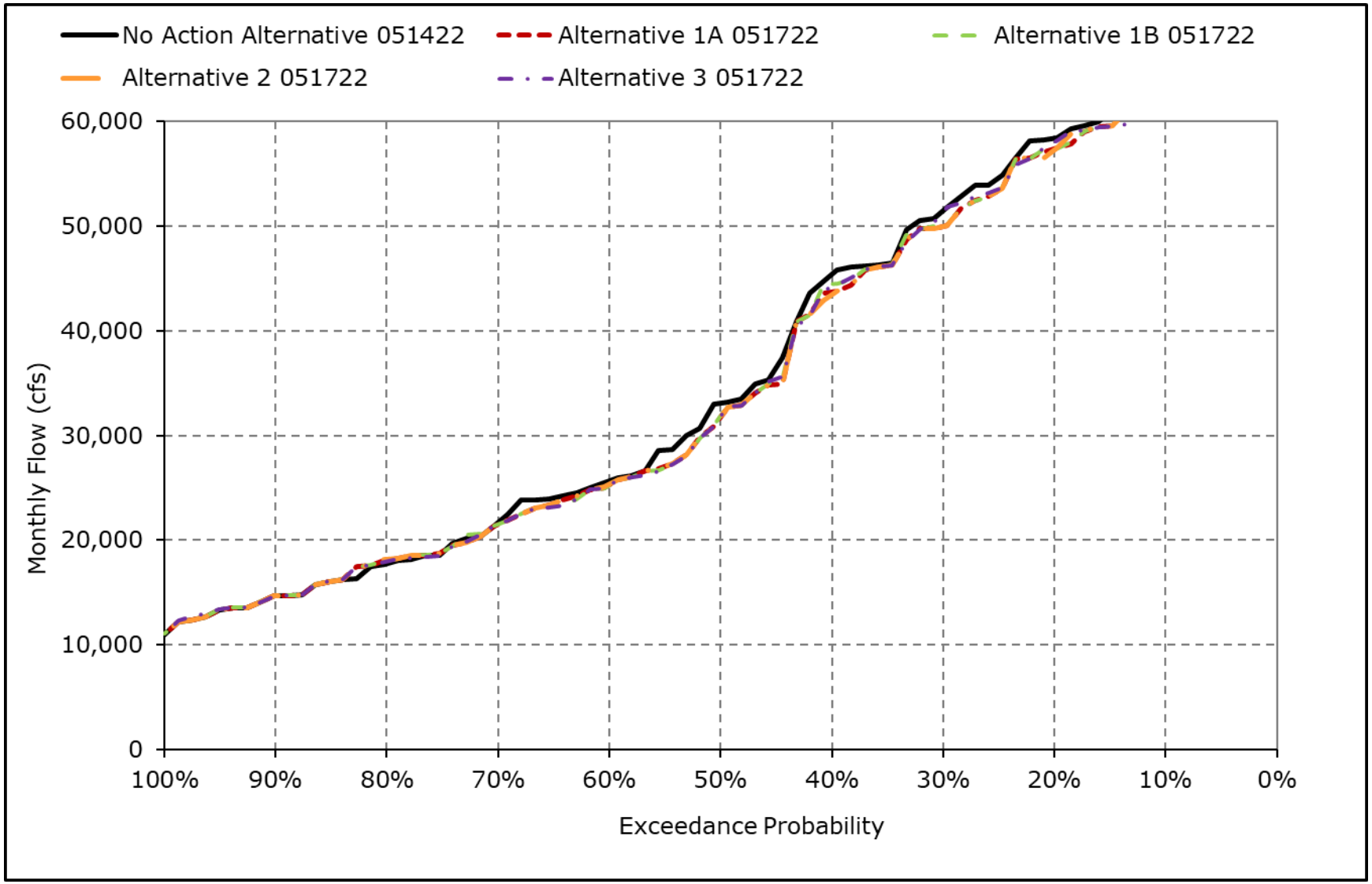
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-1-10. Sacramento River Flow at Freeport, January



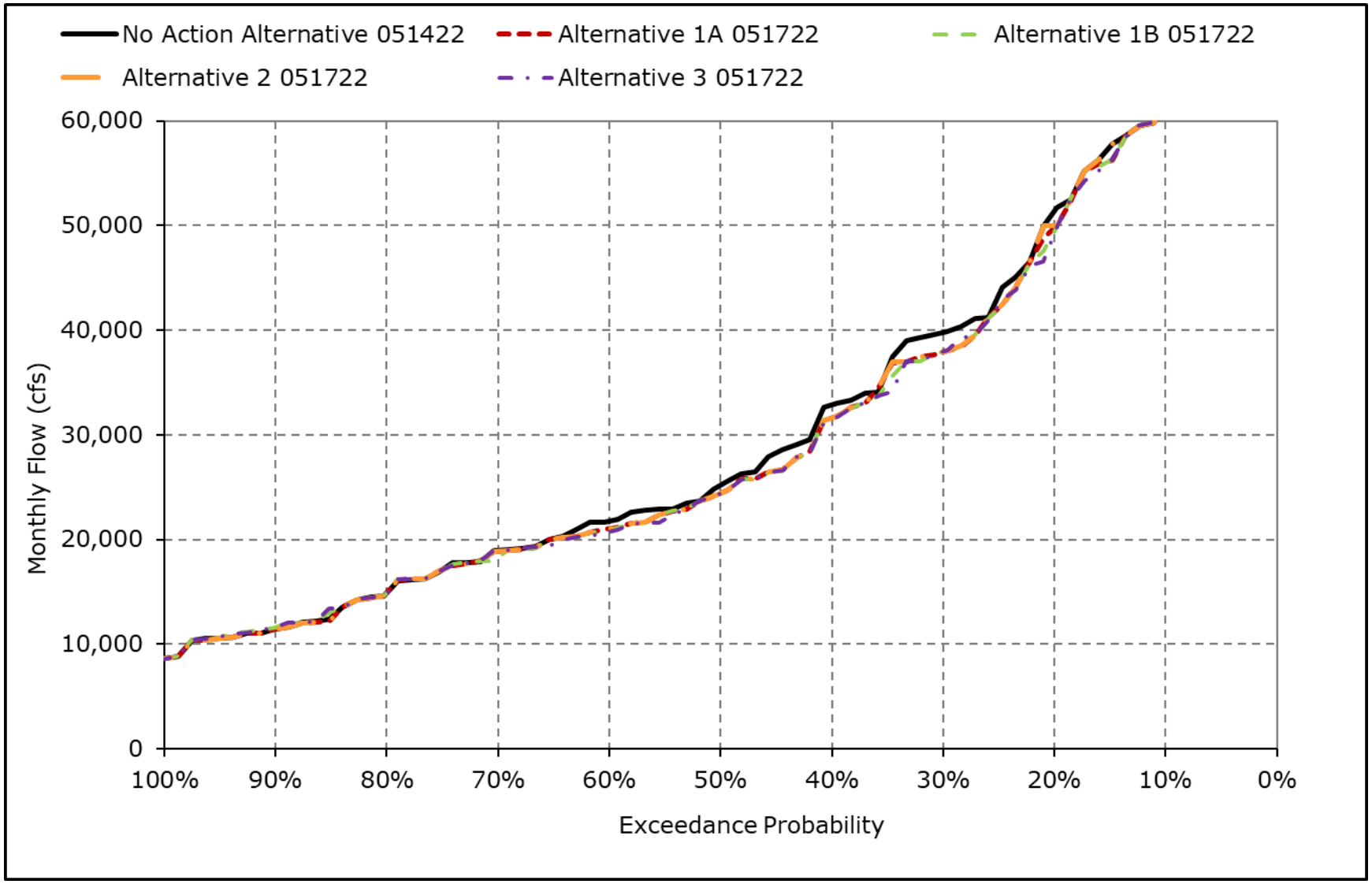
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-1-11. Sacramento River Flow at Freeport, February



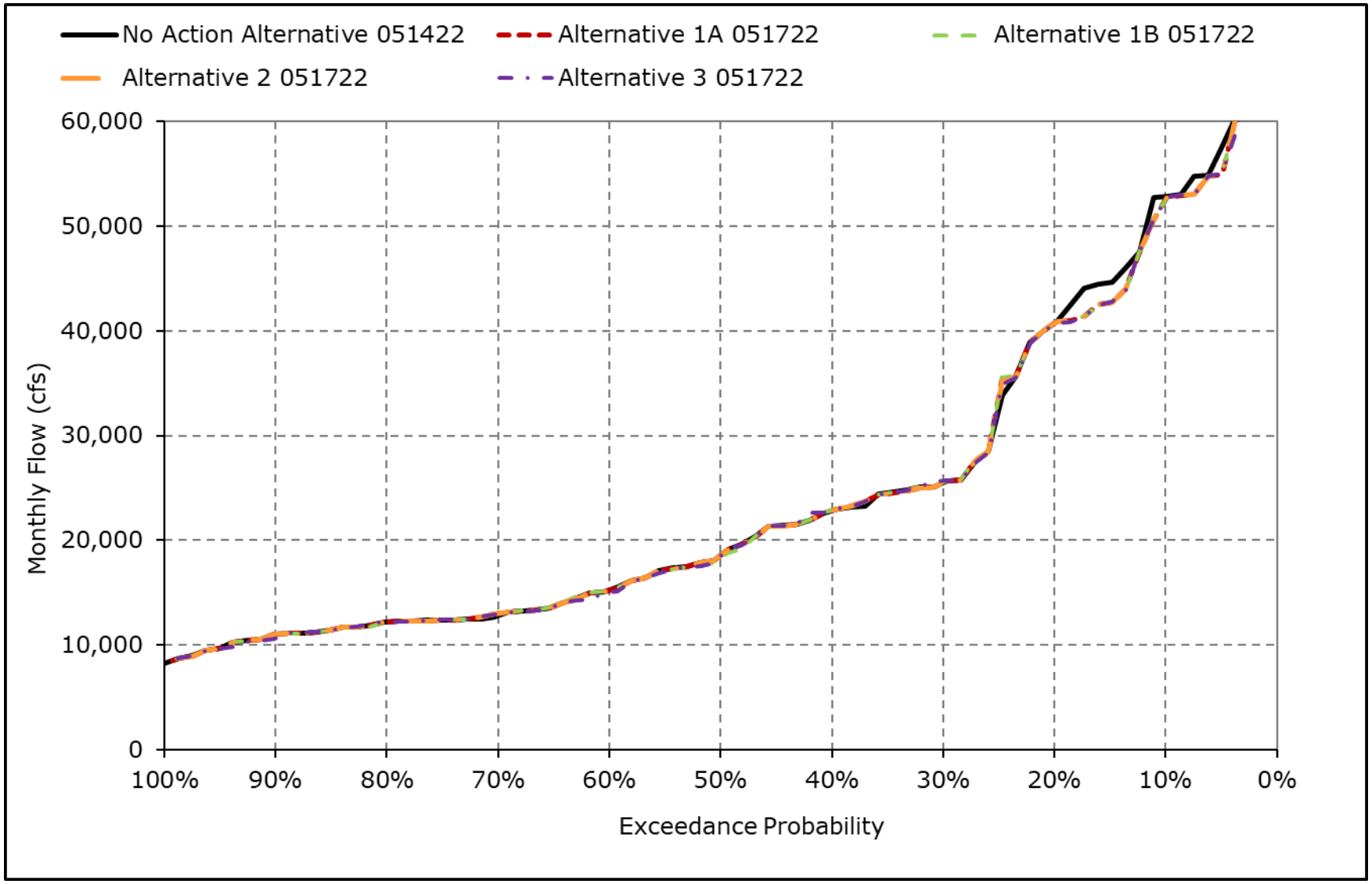
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-1-12. Sacramento River Flow at Freeport, March



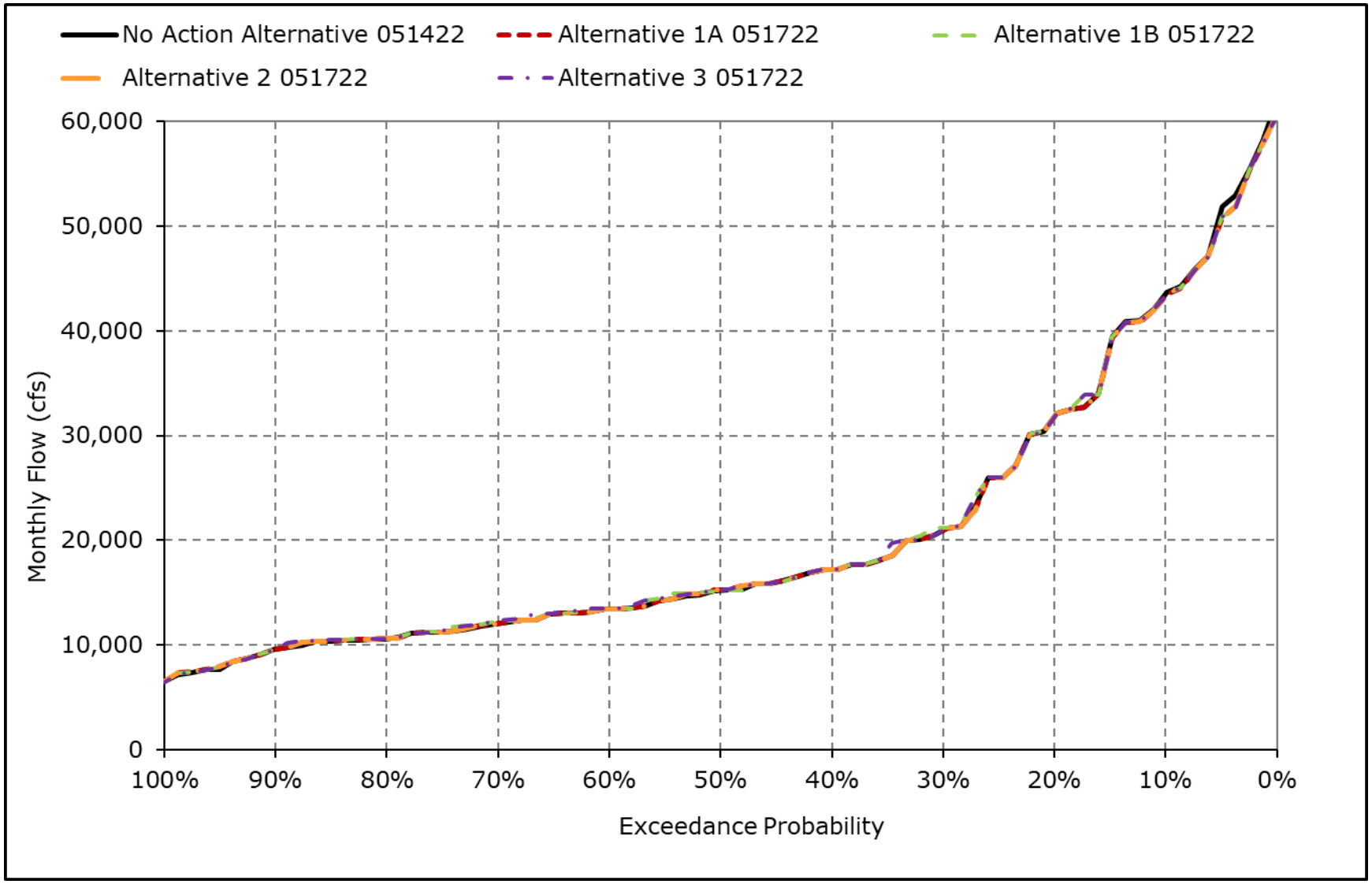
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-1-13. Sacramento River Flow at Freeport, April



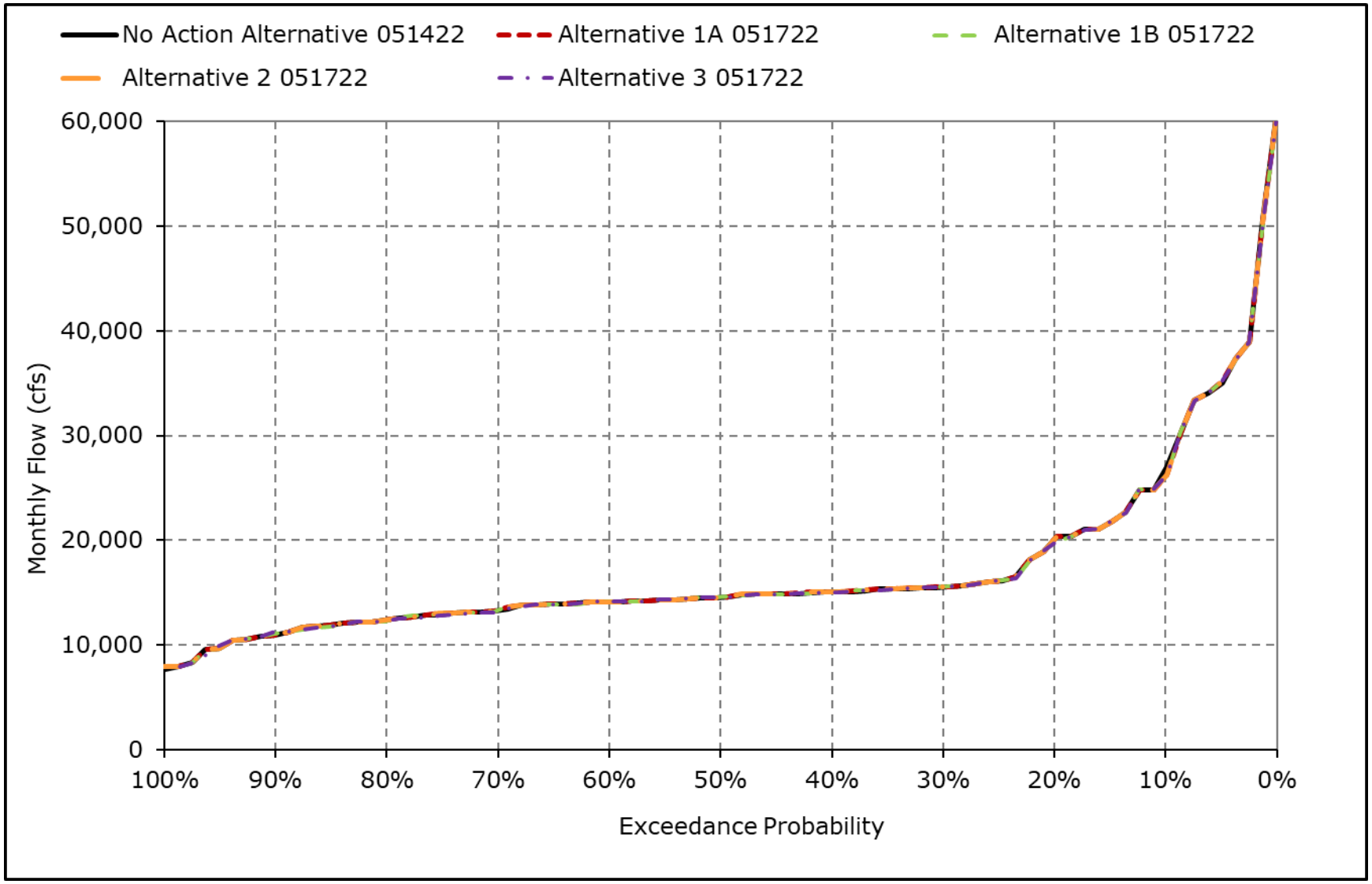
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-1-14. Sacramento River Flow at Freeport, May



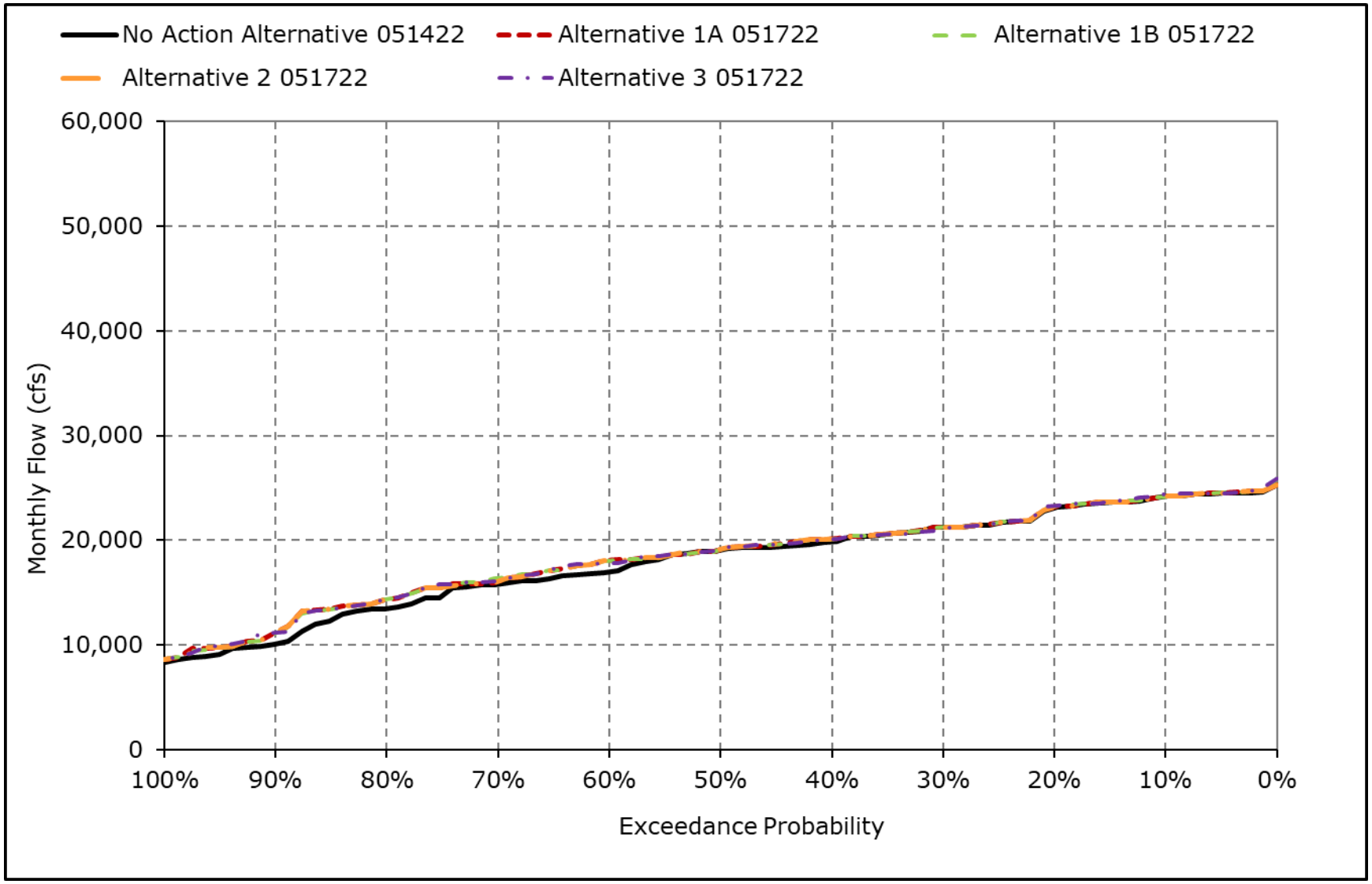
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-1-15. Sacramento River Flow at Freeport, June



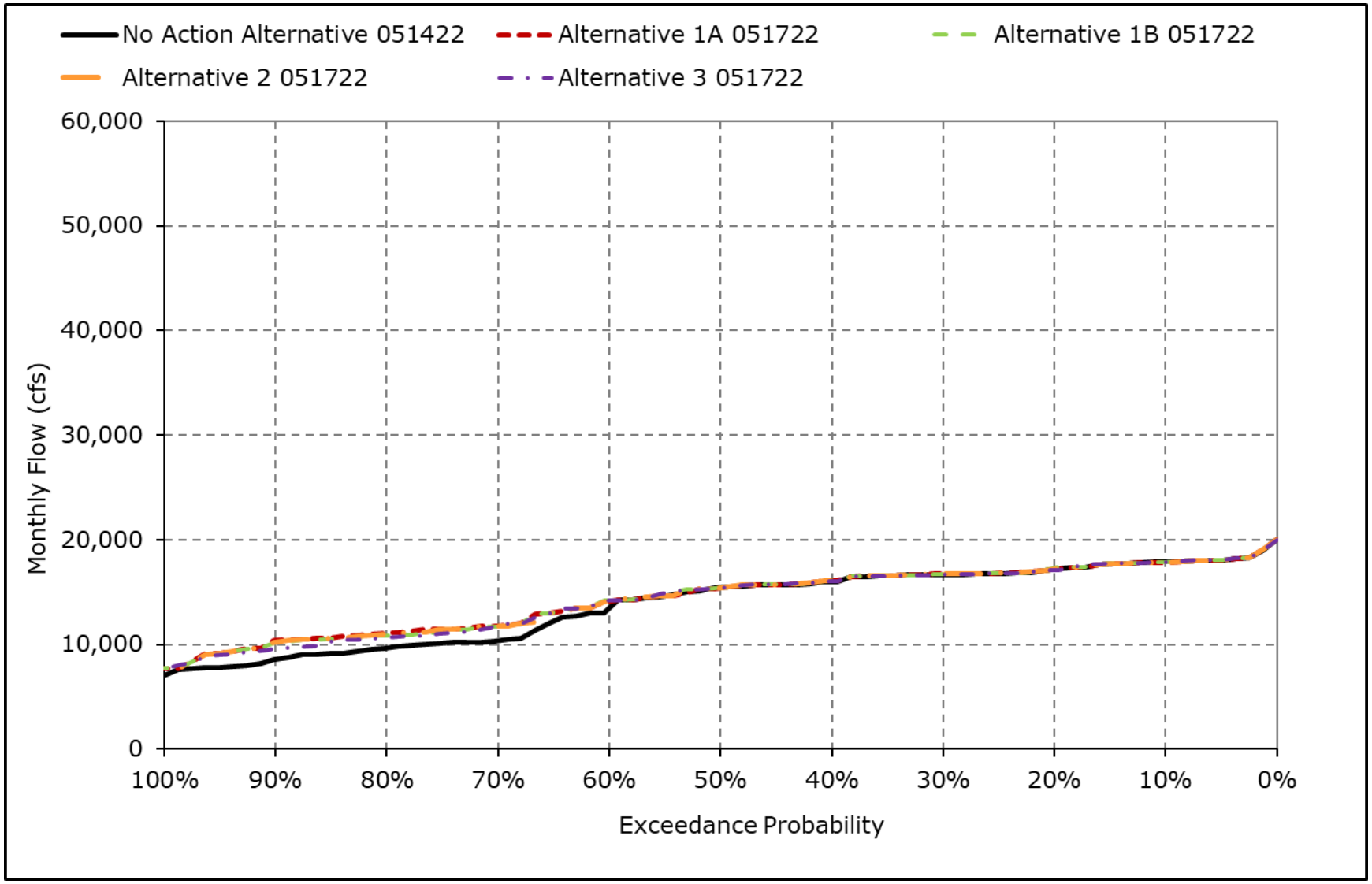
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-1-16. Sacramento River Flow at Freeport, July



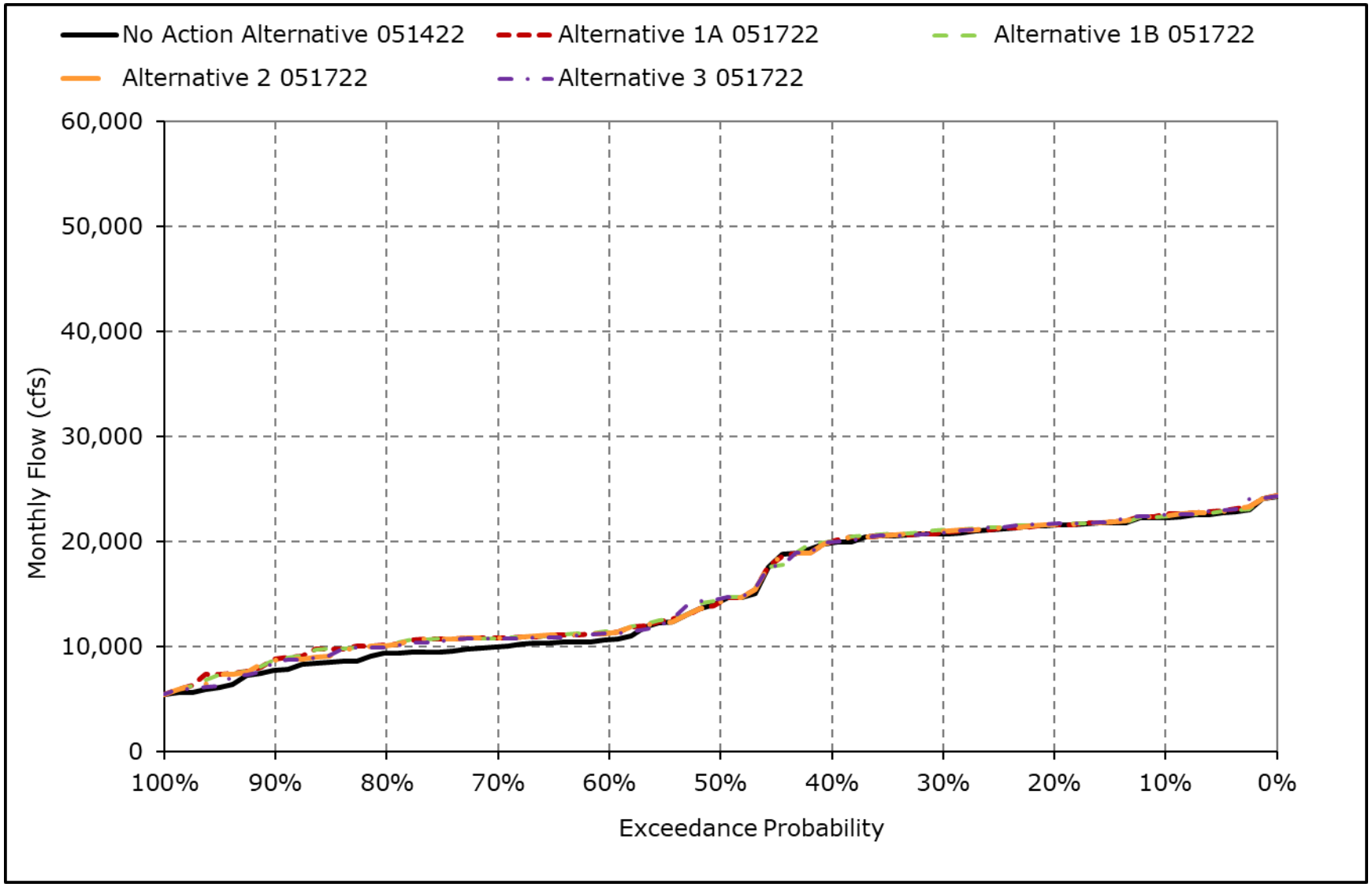
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-1-17. Sacramento River Flow at Freeport, August



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-1-18. Sacramento River Flow at Freeport, September



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 5B3-2-1a. DCC Flow, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,888	1,666	1,010	0	0	0	0	0	3,034	4,475	3,326	4,177
20% Exceedance	1,683	1,564	836	0	0	0	0	0	2,479	4,205	3,197	4,042
30% Exceedance	1,554	1,359	757	0	0	0	0	0	2,403	3,923	3,095	3,883
40% Exceedance	1,480	1,153	675	0	0	0	0	0	2,314	3,664	2,972	3,714
50% Exceedance	1,378	1,005	416	0	0	0	0	0	2,254	3,510	2,865	2,668
60% Exceedance	1,274	860	0	0	0	0	0	0	2,096	3,110	2,497	1,980
70% Exceedance	1,166	732	0	0	0	0	0	0	1,943	2,910	1,895	1,846
80% Exceedance	639	0	0	0	0	0	0	0	1,711	2,462	1,765	1,724
90% Exceedance	519	0	0	0	0	0	0	0	119	1,786	1,557	1,425
Full Simulation Period Average[a]	1,264	939	428	0	0	0	0	0	2,067	3,289	2,564	2,735
Wet Water Years (32%)	1,122	1,088	501	0	0	0	0	0	2,070	3,416	3,071	3,991
Above Normal Water Years (15%)	1,421	1,121	432	0	0	0	0	0	1,869	3,994	3,153	3,970
Below Normal Water Years (17%)	1,664	763	362	0	0	0	0	0	2,314	3,925	2,914	2,300
Dry Water Years (22%)	1,039	791	358	0	0	0	0	0	2,266	3,096	1,810	1,756
Critical Water Years (15%)	1,282	859	443	0	0	0	0	0	1,674	1,858	1,595	753

Table 5B3-2-1b. DCC Flow, Alternative 1A 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,940	1,656	1,014	0	0	0	0	0	3,035	4,476	3,325	4,231
20% Exceedance	1,833	1,544	829	0	0	0	0	0	2,486	4,227	3,202	4,046
30% Exceedance	1,700	1,372	765	0	0	0	0	0	2,405	3,927	3,107	3,906
40% Exceedance	1,536	1,250	689	0	0	0	0	0	2,315	3,720	2,984	3,740
50% Exceedance	1,461	1,088	418	0	0	0	0	0	2,249	3,510	2,864	2,665
60% Exceedance	1,314	872	0	0	0	0	0	0	2,096	3,306	2,606	2,093
70% Exceedance	1,097	805	0	0	0	0	0	0	1,945	2,927	2,168	2,001
80% Exceedance	804	22	0	0	0	0	0	0	1,711	2,579	2,041	1,880
90% Exceedance	442	0	0	0	0	0	0	0	123	1,912	1,912	1,614
Full Simulation Period Average[a]	1,316	960	431	0	0	0	0	0	2,070	3,358	2,664	2,804
Wet Water Years (32%)	1,131	1,085	504	0	0	0	0	0	2,072	3,418	3,073	4,011
Above Normal Water Years (15%)	1,427	1,127	433	0	0	0	0	0	1,873	4,005	3,158	3,979
Below Normal Water Years (17%)	1,745	805	367	0	0	0	0	0	2,318	3,932	2,935	2,342
Dry Water Years (22%)	1,119	845	362	0	0	0	0	0	2,266	3,277	2,071	1,945
Critical Water Years (15%)	1,403	873	446	0	0	0	0	0	1,677	2,035	1,854	841

Table 5B3-2-1c. DCC Flow, Alternative 1A 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52	-11	4	0	0	0	0	0	0	1	-1	53
20% Exceedance	150	-20	-7	0	0	0	0	0	7	22	6	4
30% Exceedance	146	14	7	0	0	0	0	0	2	4	12	23
40% Exceedance	55	97	14	0	0	0	0	0	1	56	12	26
50% Exceedance	83	83	2	0	0	0	0	0	-5	-1	-1	-3
60% Exceedance	40	12	0	0	0	0	0	0	0	196	109	113
70% Exceedance	-69	73	0	0	0	0	0	0	2	17	274	156
80% Exceedance	165	22	0	0	0	0	0	0	0	116	276	156
90% Exceedance	-76	0	0	0	0	0	0	0	4	126	354	189
Full Simulation Period Average[a]	53	21	3	0	0	0	0	0	2	69	100	69
Wet Water Years (32%)	9	-3	3	0	0	0	0	0	2	2	2	20
Above Normal Water Years (15%)	6	6	1	0	0	0	0	0	4	11	5	9
Below Normal Water Years (17%)	81	42	5	0	0	0	0	0	4	7	20	42
Dry Water Years (22%)	80	54	4	0	0	0	0	0	0	181	260	189
Critical Water Years (15%)	120	14	3	0	0	0	0	0	4	177	259	88

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-2-2a. DCC Flow, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,888	1,666	1,010	0	0	0	0	0	3,034	4,475	3,326	4,177
20% Exceedance	1,683	1,564	836	0	0	0	0	0	2,479	4,205	3,197	4,042
30% Exceedance	1,554	1,359	757	0	0	0	0	0	2,403	3,923	3,095	3,883
40% Exceedance	1,480	1,153	675	0	0	0	0	0	2,314	3,664	2,972	3,714
50% Exceedance	1,378	1,005	416	0	0	0	0	0	2,254	3,510	2,865	2,668
60% Exceedance	1,274	860	0	0	0	0	0	0	2,096	3,110	2,497	1,980
70% Exceedance	1,166	732	0	0	0	0	0	0	1,943	2,910	1,895	1,846
80% Exceedance	639	0	0	0	0	0	0	0	1,711	2,462	1,765	1,724
90% Exceedance	519	0	0	0	0	0	0	0	119	1,786	1,557	1,425
Full Simulation Period Average[a]	1,264	939	428	0	0	0	0	0	2,067	3,289	2,564	2,735
Wet Water Years (32%)	1,122	1,088	501	0	0	0	0	0	2,070	3,416	3,071	3,991
Above Normal Water Years (15%)	1,421	1,121	432	0	0	0	0	0	1,869	3,994	3,153	3,970
Below Normal Water Years (17%)	1,664	763	362	0	0	0	0	0	2,314	3,925	2,914	2,300
Dry Water Years (22%)	1,039	791	358	0	0	0	0	0	2,266	3,096	1,810	1,756
Critical Water Years (15%)	1,282	859	443	0	0	0	0	0	1,674	1,858	1,595	753

Table 5B3-2-2b. DCC Flow, Alternative 1B 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,947	1,656	1,014	0	0	0	0	0	3,035	4,475	3,331	4,203
20% Exceedance	1,808	1,546	845	0	0	0	0	0	2,479	4,229	3,213	4,055
30% Exceedance	1,718	1,417	769	0	0	0	0	0	2,400	3,928	3,104	3,952
40% Exceedance	1,550	1,265	688	0	0	0	0	0	2,324	3,716	2,984	3,749
50% Exceedance	1,452	1,077	419	0	0	0	0	0	2,249	3,503	2,861	2,697
60% Exceedance	1,319	875	0	0	0	0	0	0	2,096	3,306	2,634	2,115
70% Exceedance	1,097	789	0	0	0	0	0	0	1,939	2,975	2,164	2,000
80% Exceedance	806	61	0	0	0	0	0	0	1,714	2,579	1,996	1,870
90% Exceedance	442	0	0	0	0	0	0	0	123	1,900	1,864	1,615
Full Simulation Period Average[a]	1,320	966	432	0	0	0	0	0	2,066	3,358	2,659	2,810
Wet Water Years (32%)	1,134	1,085	507	0	0	0	0	0	2,068	3,417	3,078	4,011
Above Normal Water Years (15%)	1,450	1,112	434	0	0	0	0	0	1,862	4,008	3,159	3,999
Below Normal Water Years (17%)	1,732	863	370	0	0	0	0	0	2,314	3,940	2,936	2,357
Dry Water Years (22%)	1,131	840	363	0	0	0	0	0	2,270	3,277	2,050	1,949
Critical Water Years (15%)	1,396	871	447	0	0	0	0	0	1,672	2,024	1,842	841

Table 5B3-2-2c. DCC Flow, Alternative 1B 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	59	-11	4	0	0	0	0	0	0	0	5	26
20% Exceedance	124	-19	10	0	0	0	0	0	0	24	16	13
30% Exceedance	164	58	11	0	0	0	0	0	-3	5	9	69
40% Exceedance	69	112	12	0	0	0	0	0	11	51	12	36
50% Exceedance	74	72	4	0	0	0	0	0	-5	-7	-4	29
60% Exceedance	44	15	0	0	0	0	0	0	0	196	137	136
70% Exceedance	-69	57	0	0	0	0	0	0	-4	65	270	155
80% Exceedance	167	61	0	0	0	0	0	0	3	117	231	146
90% Exceedance	-76	0	0	0	0	0	0	0	4	113	307	190
Full Simulation Period Average[a]	56	27	5	0	0	0	0	0	-1	69	95	76
Wet Water Years (32%)	11	-3	5	0	0	0	0	0	-3	1	7	20
Above Normal Water Years (15%)	28	-9	1	0	0	0	0	0	-6	14	7	29
Below Normal Water Years (17%)	69	100	8	0	0	0	0	0	0	16	21	57
Dry Water Years (22%)	91	49	5	0	0	0	0	0	4	181	239	192
Critical Water Years (15%)	114	11	4	0	0	0	0	0	-1	166	247	88

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-2-3a. DCC Flow, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,888	1,666	1,010	0	0	0	0	0	3,034	4,475	3,326	4,177
20% Exceedance	1,683	1,564	836	0	0	0	0	0	2,479	4,205	3,197	4,042
30% Exceedance	1,554	1,359	757	0	0	0	0	0	2,403	3,923	3,095	3,883
40% Exceedance	1,480	1,153	675	0	0	0	0	0	2,314	3,664	2,972	3,714
50% Exceedance	1,378	1,005	416	0	0	0	0	0	2,254	3,510	2,865	2,668
60% Exceedance	1,274	860	0	0	0	0	0	0	2,096	3,110	2,497	1,980
70% Exceedance	1,166	732	0	0	0	0	0	0	1,943	2,910	1,895	1,846
80% Exceedance	639	0	0	0	0	0	0	0	1,711	2,462	1,765	1,724
90% Exceedance	519	0	0	0	0	0	0	0	119	1,786	1,557	1,425
Full Simulation Period Average[a]	1,264	939	428	0	0	0	0	0	2,067	3,289	2,564	2,735
Wet Water Years (32%)	1,122	1,088	501	0	0	0	0	0	2,070	3,416	3,071	3,991
Above Normal Water Years (15%)	1,421	1,121	432	0	0	0	0	0	1,869	3,994	3,153	3,970
Below Normal Water Years (17%)	1,664	763	362	0	0	0	0	0	2,314	3,925	2,914	2,300
Dry Water Years (22%)	1,039	791	358	0	0	0	0	0	2,266	3,096	1,810	1,756
Critical Water Years (15%)	1,282	859	443	0	0	0	0	0	1,674	1,858	1,595	753

Table 5B3-2-3b. DCC Flow, Alternative 2 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,940	1,656	1,014	0	0	0	0	0	3,035	4,476	3,325	4,203
20% Exceedance	1,833	1,544	828	0	0	0	0	0	2,486	4,227	3,202	4,046
30% Exceedance	1,700	1,372	765	0	0	0	0	0	2,405	3,927	3,108	3,927
40% Exceedance	1,538	1,231	689	0	0	0	0	0	2,315	3,720	2,984	3,740
50% Exceedance	1,461	1,093	418	0	0	0	0	0	2,249	3,521	2,863	2,665
60% Exceedance	1,302	869	0	0	0	0	0	0	2,096	3,306	2,609	2,092
70% Exceedance	1,097	805	0	0	0	0	0	0	1,945	2,927	2,164	2,001
80% Exceedance	796	22	0	0	0	0	0	0	1,711	2,579	2,023	1,868
90% Exceedance	513	0	0	0	0	0	0	0	123	1,912	1,882	1,607
Full Simulation Period Average[a]	1,323	958	431	0	0	0	0	0	2,070	3,359	2,660	2,798
Wet Water Years (32%)	1,131	1,085	504	0	0	0	0	0	2,072	3,418	3,073	4,013
Above Normal Water Years (15%)	1,428	1,127	433	0	0	0	0	0	1,873	4,005	3,158	3,979
Below Normal Water Years (17%)	1,742	804	367	0	0	0	0	0	2,317	3,940	2,943	2,334
Dry Water Years (22%)	1,149	837	363	0	0	0	0	0	2,266	3,277	2,069	1,931
Critical Water Years (15%)	1,405	872	447	0	0	0	0	0	1,678	2,028	1,820	825

Table 5B3-2-3c. DCC Flow, Alternative 2 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	52	-11	4	0	0	0	0	0	0	1	-1	26
20% Exceedance	150	-20	-8	0	0	0	0	0	7	22	5	4
30% Exceedance	146	14	7	0	0	0	0	0	2	4	13	44
40% Exceedance	58	78	14	0	0	0	0	0	1	56	12	26
50% Exceedance	83	88	2	0	0	0	0	0	-5	11	-2	-3
60% Exceedance	28	8	0	0	0	0	0	0	0	196	112	112
70% Exceedance	-69	73	0	0	0	0	0	0	2	17	269	155
80% Exceedance	157	22	0	0	0	0	0	0	0	116	258	144
90% Exceedance	-6	0	0	0	0	0	0	0	5	126	324	182
Full Simulation Period Average[a]	59	19	3	0	0	0	0	0	2	69	96	63
Wet Water Years (32%)	9	-3	3	0	0	0	0	0	2	2	2	22
Above Normal Water Years (15%)	6	6	1	0	0	0	0	0	4	11	5	9
Below Normal Water Years (17%)	78	42	5	0	0	0	0	0	4	15	28	35
Dry Water Years (22%)	109	46	5	0	0	0	0	0	0	181	259	175
Critical Water Years (15%)	122	12	3	0	0	0	0	0	4	170	225	72

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-2-4a. DCC Flow, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,888	1,666	1,010	0	0	0	0	0	3,034	4,475	3,326	4,177
20% Exceedance	1,683	1,564	836	0	0	0	0	0	2,479	4,205	3,197	4,042
30% Exceedance	1,554	1,359	757	0	0	0	0	0	2,403	3,923	3,095	3,883
40% Exceedance	1,480	1,153	675	0	0	0	0	0	2,314	3,664	2,972	3,714
50% Exceedance	1,378	1,005	416	0	0	0	0	0	2,254	3,510	2,865	2,668
60% Exceedance	1,274	860	0	0	0	0	0	0	2,096	3,110	2,497	1,980
70% Exceedance	1,166	732	0	0	0	0	0	0	1,943	2,910	1,895	1,846
80% Exceedance	639	0	0	0	0	0	0	0	1,711	2,462	1,765	1,724
90% Exceedance	519	0	0	0	0	0	0	0	119	1,786	1,557	1,425
Full Simulation Period Average[a]	1,264	939	428	0	0	0	0	0	2,067	3,289	2,564	2,735
Wet Water Years (32%)	1,122	1,088	501	0	0	0	0	0	2,070	3,416	3,071	3,991
Above Normal Water Years (15%)	1,421	1,121	432	0	0	0	0	0	1,869	3,994	3,153	3,970
Below Normal Water Years (17%)	1,664	763	362	0	0	0	0	0	2,314	3,925	2,914	2,300
Dry Water Years (22%)	1,039	791	358	0	0	0	0	0	2,266	3,096	1,810	1,756
Critical Water Years (15%)	1,282	859	443	0	0	0	0	0	1,674	1,858	1,595	753

Table 5B3-2-4b. DCC Flow, Alternative 3 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,910	1,671	1,009	0	0	0	0	0	3,035	4,504	3,331	4,223
20% Exceedance	1,825	1,587	848	0	0	0	0	0	2,479	4,270	3,180	4,065
30% Exceedance	1,702	1,443	761	0	0	0	0	0	2,391	3,876	3,101	3,903
40% Exceedance	1,584	1,251	687	0	0	0	0	0	2,319	3,711	2,978	3,731
50% Exceedance	1,467	1,042	424	0	0	0	0	0	2,251	3,509	2,861	2,714
60% Exceedance	1,329	870	0	0	0	0	0	0	2,086	3,287	2,624	2,075
70% Exceedance	1,193	791	0	0	0	0	0	0	1,939	2,956	2,171	1,990
80% Exceedance	814	0	0	0	0	0	0	0	1,719	2,580	1,961	1,836
90% Exceedance	447	0	0	0	0	0	0	0	123	2,011	1,757	1,567
Full Simulation Period Average[a]	1,325	962	429	0	0	0	0	0	2,063	3,362	2,645	2,796
Wet Water Years (32%)	1,140	1,082	505	0	0	0	0	0	2,068	3,417	3,078	4,008
Above Normal Water Years (15%)	1,471	1,116	417	0	0	0	0	0	1,852	4,019	3,162	3,997
Below Normal Water Years (17%)	1,571	775	374	0	0	0	0	0	2,304	3,941	2,933	2,346
Dry Water Years (22%)	1,268	891	359	0	0	0	0	0	2,273	3,296	2,025	1,922
Critical Water Years (15%)	1,379	870	445	0	0	0	0	0	1,666	2,010	1,787	802

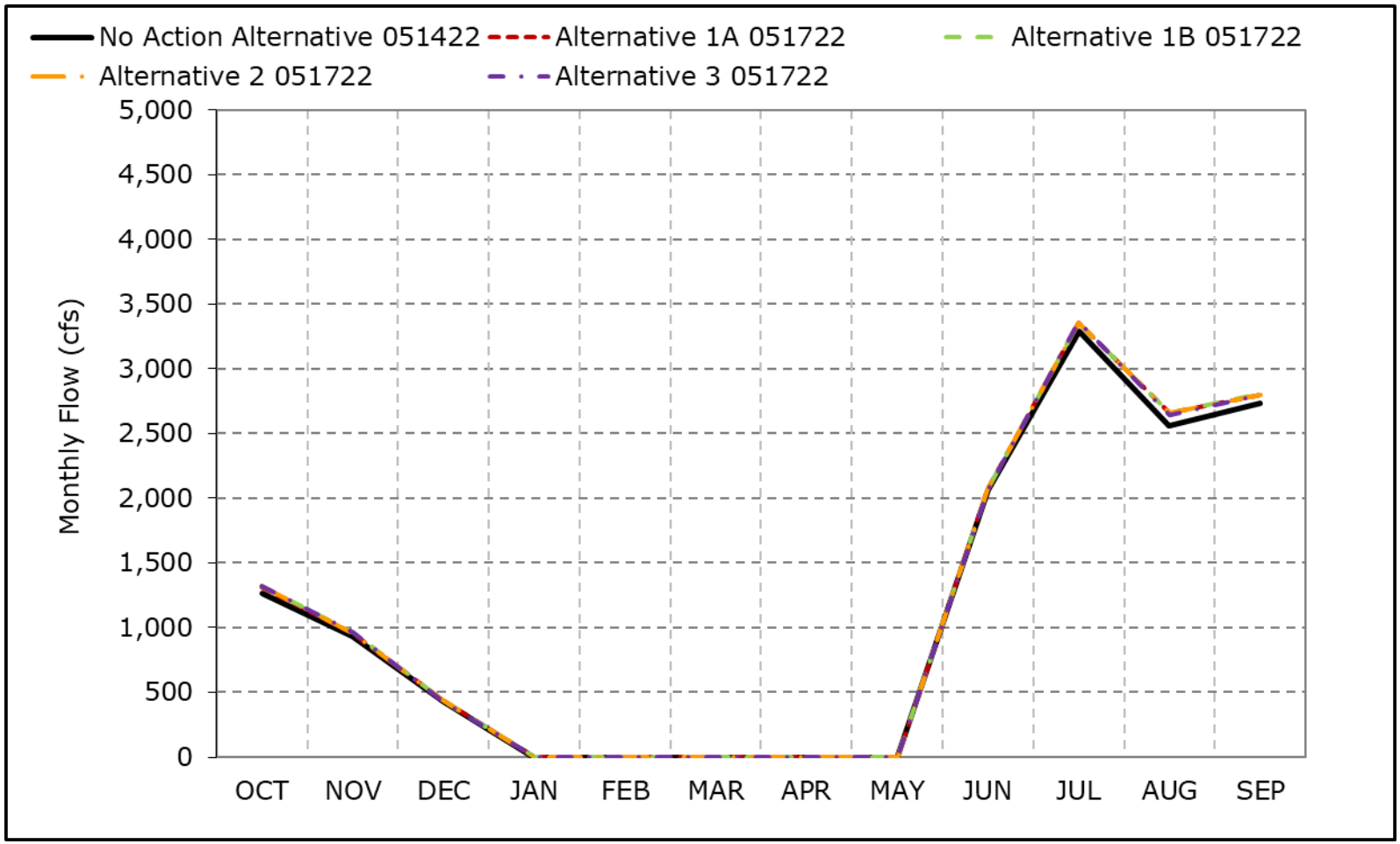
Table 5B3-2-4c. DCC Flow, Alternative 3 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	21	5	-1	0	0	0	0	0	0	29	5	46
20% Exceedance	142	23	12	0	0	0	0	0	0	65	-17	23
30% Exceedance	148	84	3	0	0	0	0	0	-12	-47	6	20
40% Exceedance	104	98	11	0	0	0	0	0	5	47	5	18
50% Exceedance	89	37	9	0	0	0	0	0	-3	-1	-4	46
60% Exceedance	54	10	0	0	0	0	0	0	-10	176	127	95
70% Exceedance	28	58	0	0	0	0	0	0	-4	46	276	145
80% Exceedance	175	0	0	0	0	0	0	0	8	118	196	112
90% Exceedance	-72	0	0	0	0	0	0	0	4	225	199	142
Full Simulation Period Average[a]	61	23	1	0	0	0	0	0	-5	73	82	61
Wet Water Years (32%)	18	-6	4	0	0	0	0	0	-3	2	7	17
Above Normal Water Years (15%)	49	-5	-16	0	0	0	0	0	-17	25	9	27
Below Normal Water Years (17%)	-92	12	12	0	0	0	0	0	-10	16	18	46
Dry Water Years (22%)	228	100	1	0	0	0	0	0	7	199	215	165
Critical Water Years (15%)	97	11	2	0	0	0	0	0	-8	151	192	50

[a] Based on the 82-year simulation period.

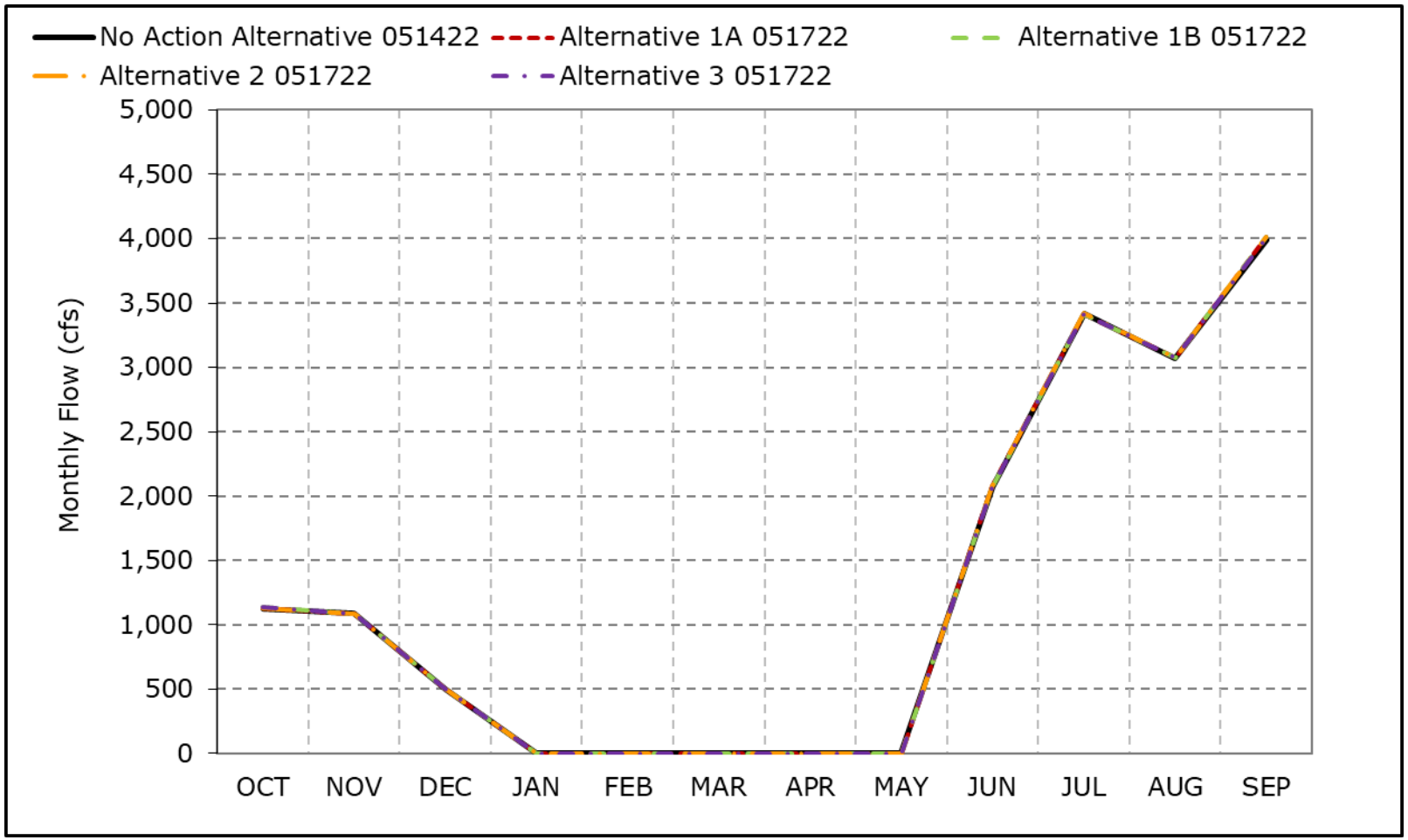
* All scenarios are simulated at current climate condition and 0 cm sea level rise.
* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* Water Year Types results are displayed with calendar year - year type sorting.

Figure 5B3-2-1. DCC Flow, Long-Term Average Flow



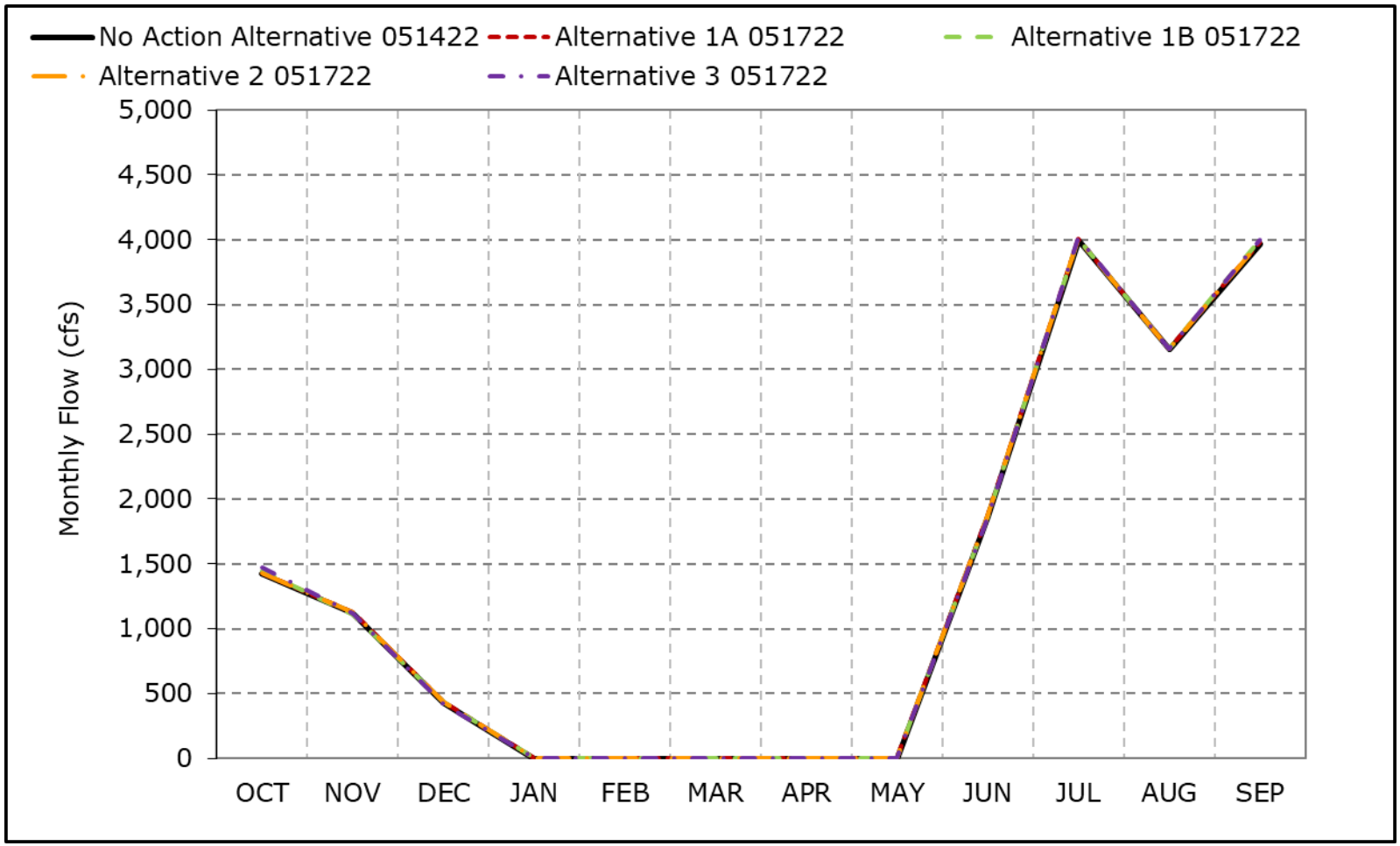
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-2-2. DCC Flow, Wet Year Average Flow



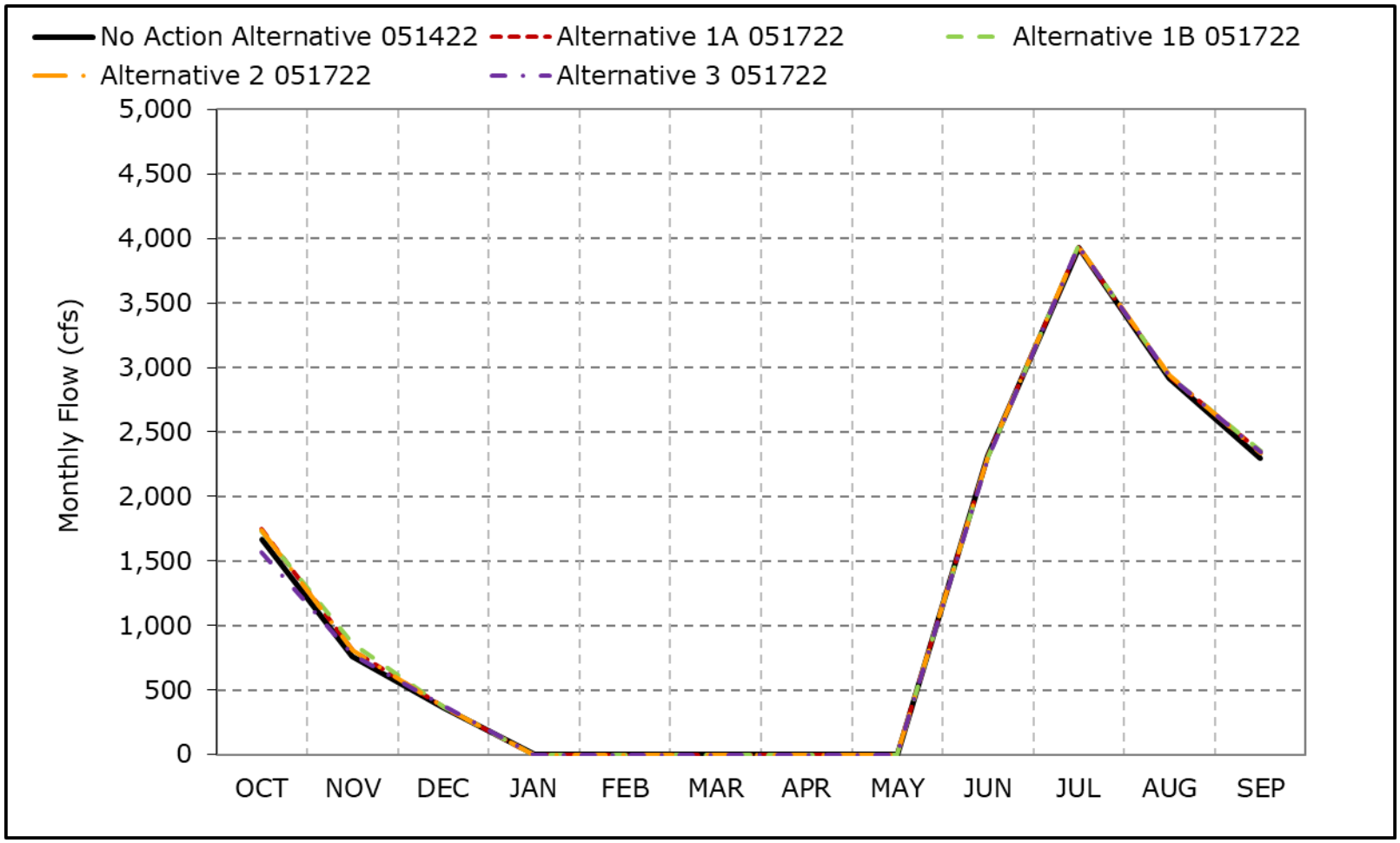
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-2-3. DCC Flow, Above Normal Year Average Flow



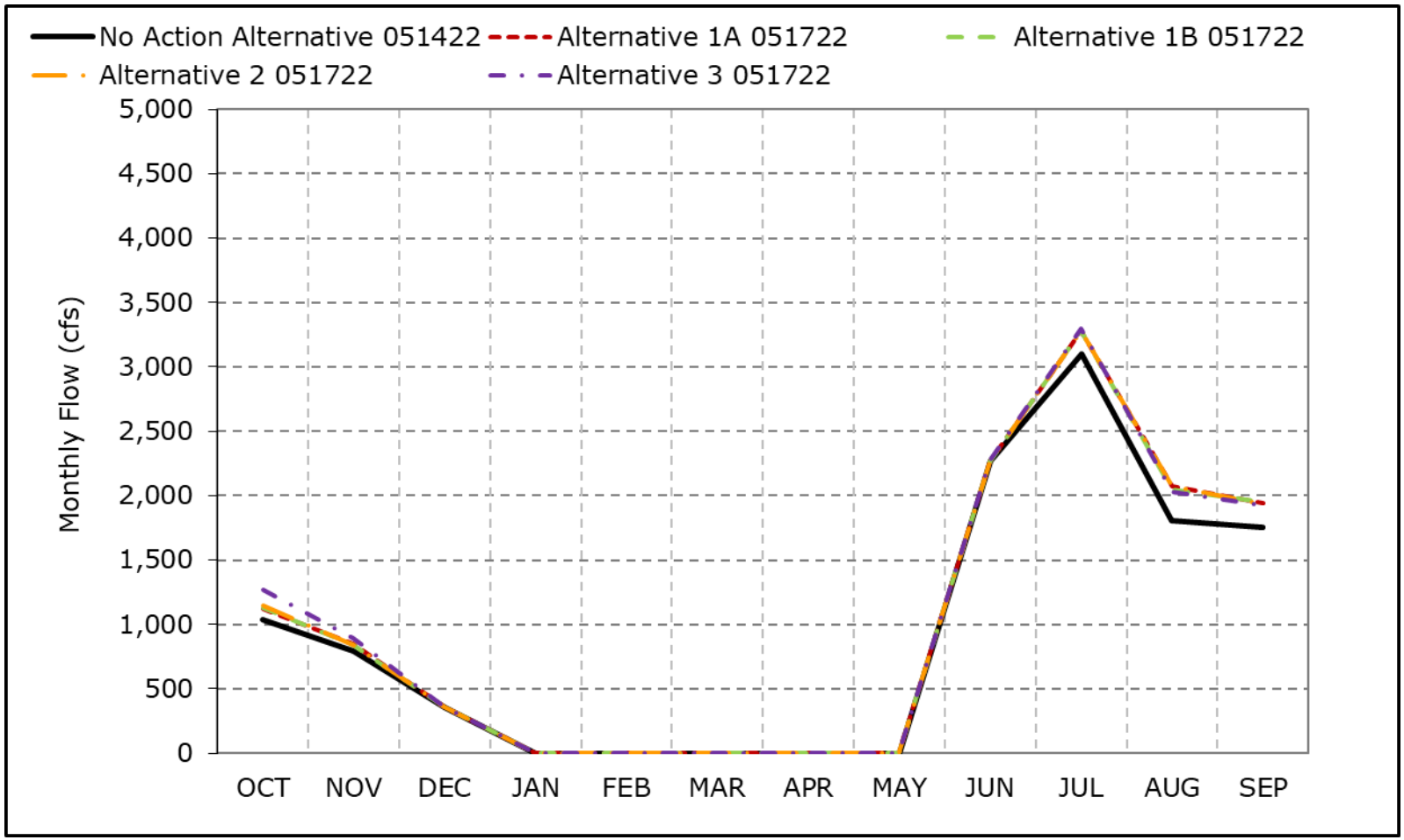
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-2-4. DCC Flow, Below Normal Year Average Flow



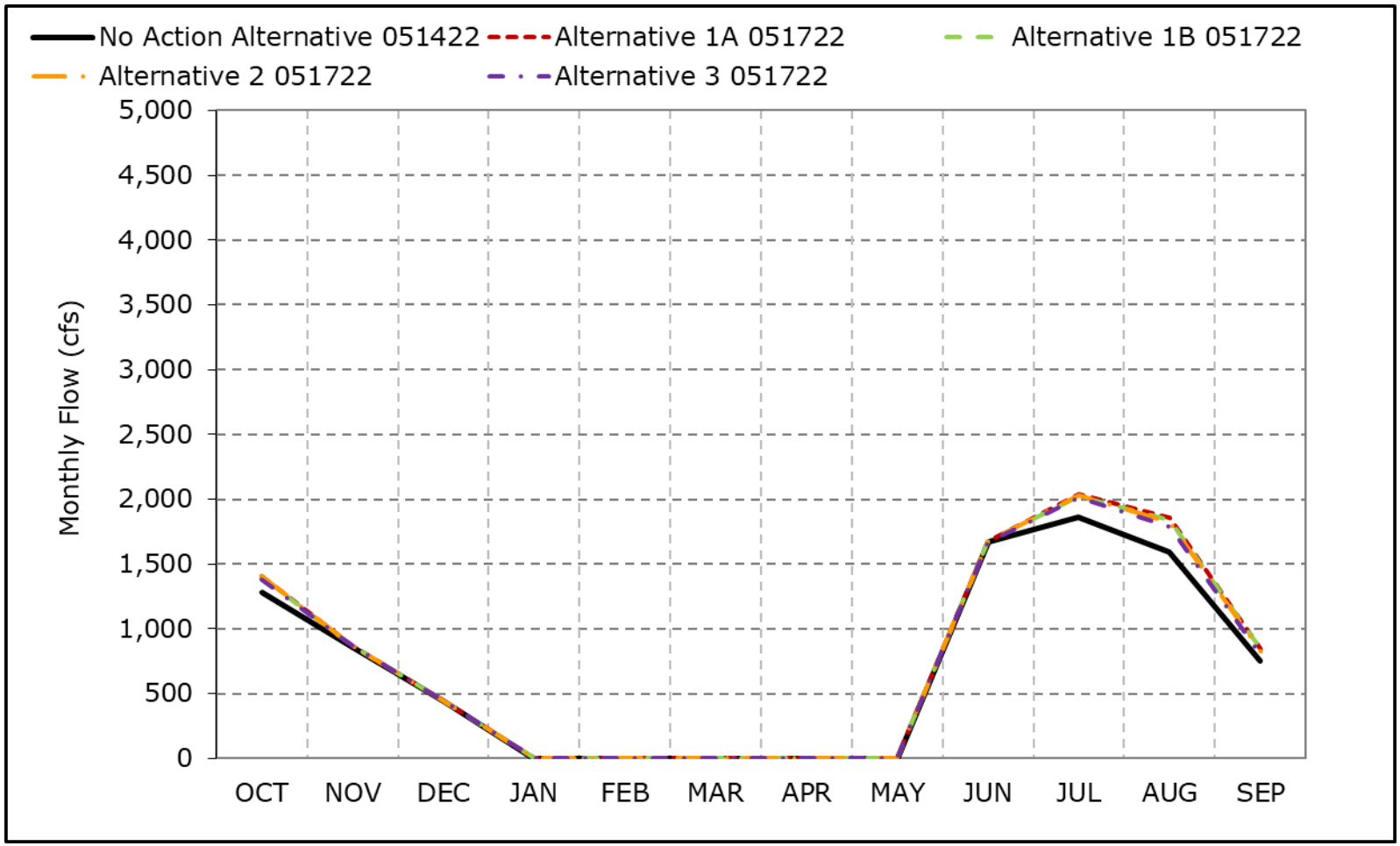
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-2-5. DCC Flow, Dry Year Average Flow



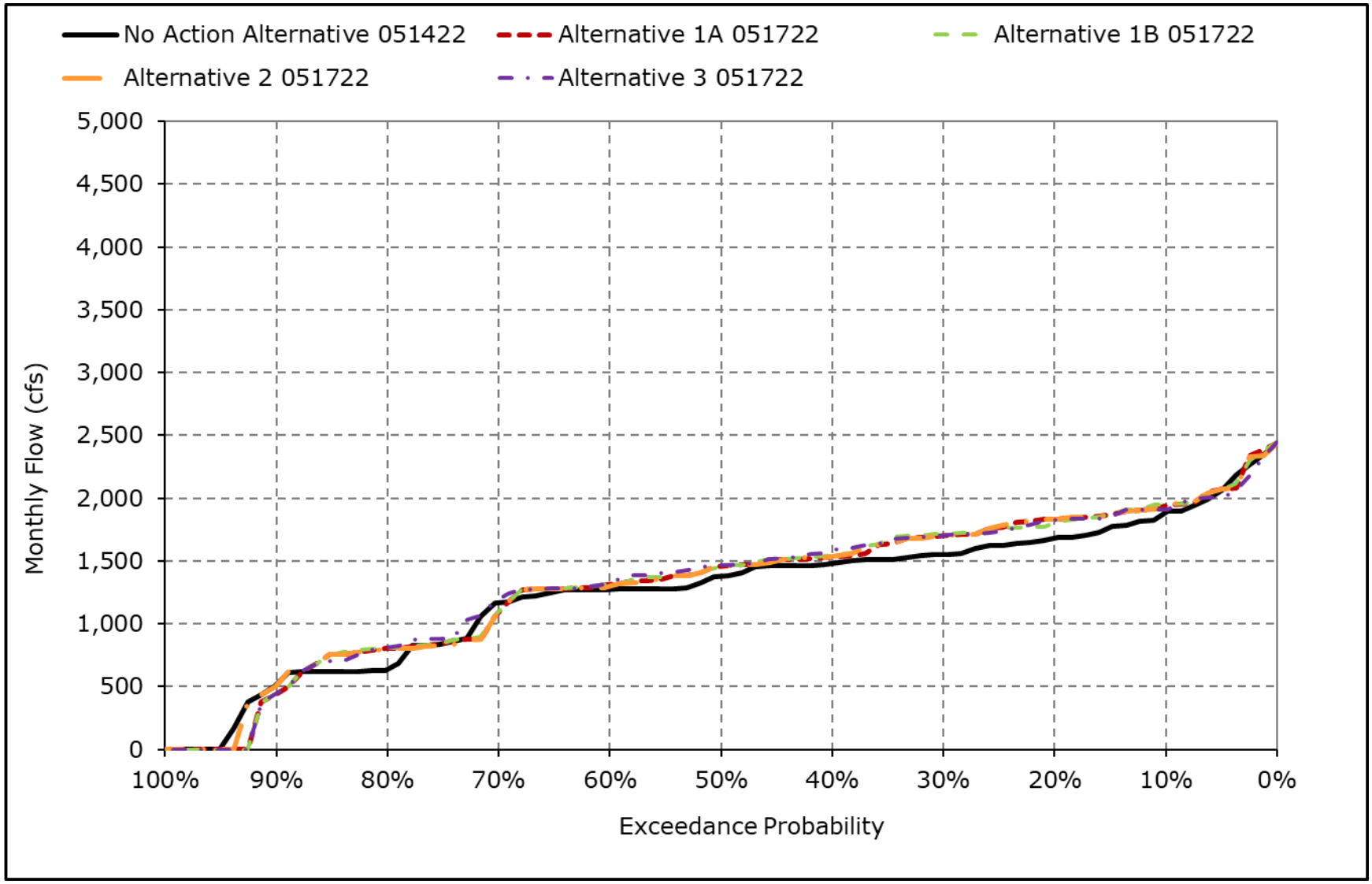
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-2-6. DCC Flow, Critical Year Average Flow



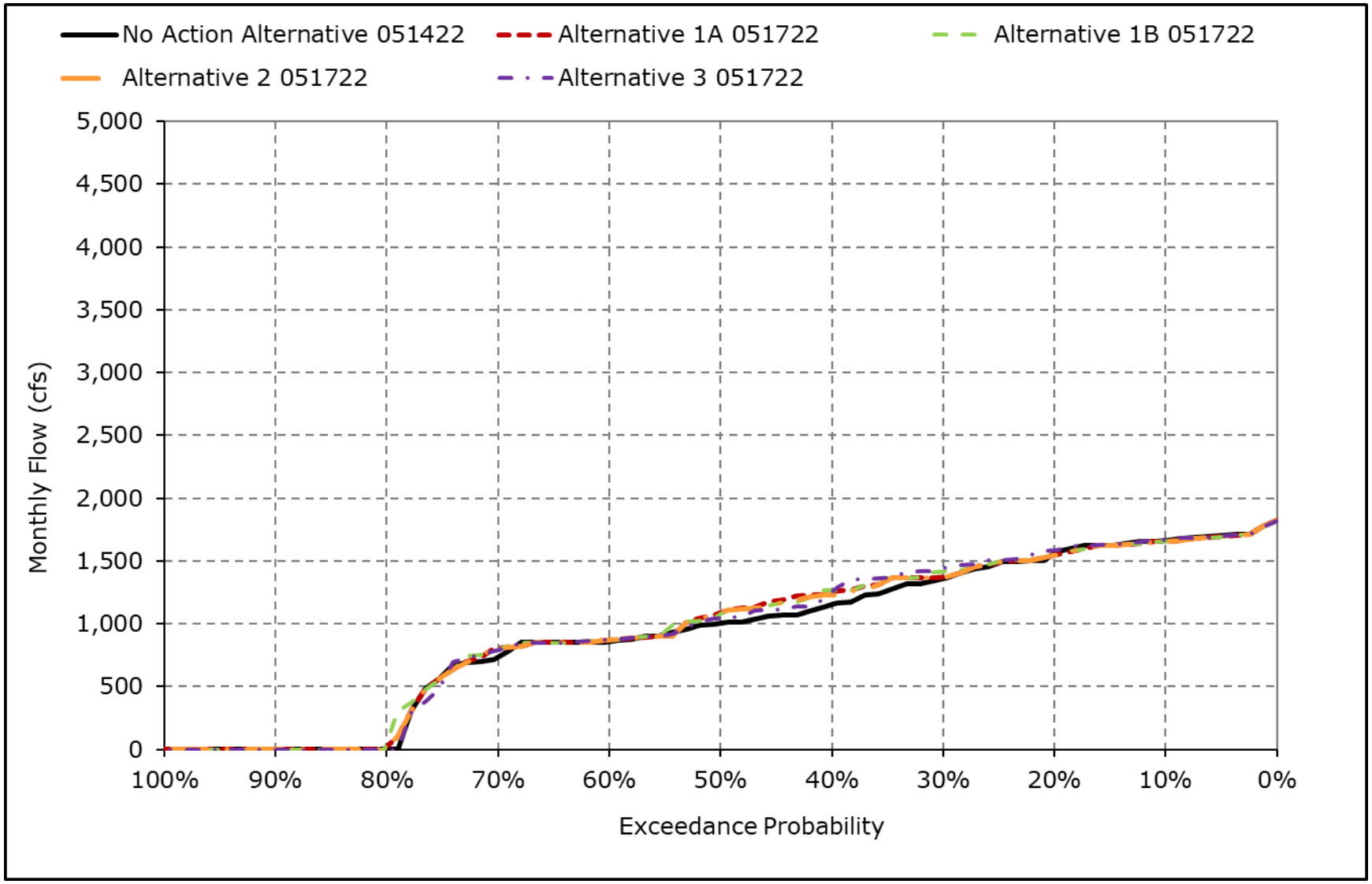
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-2-7. DCC Flow, October



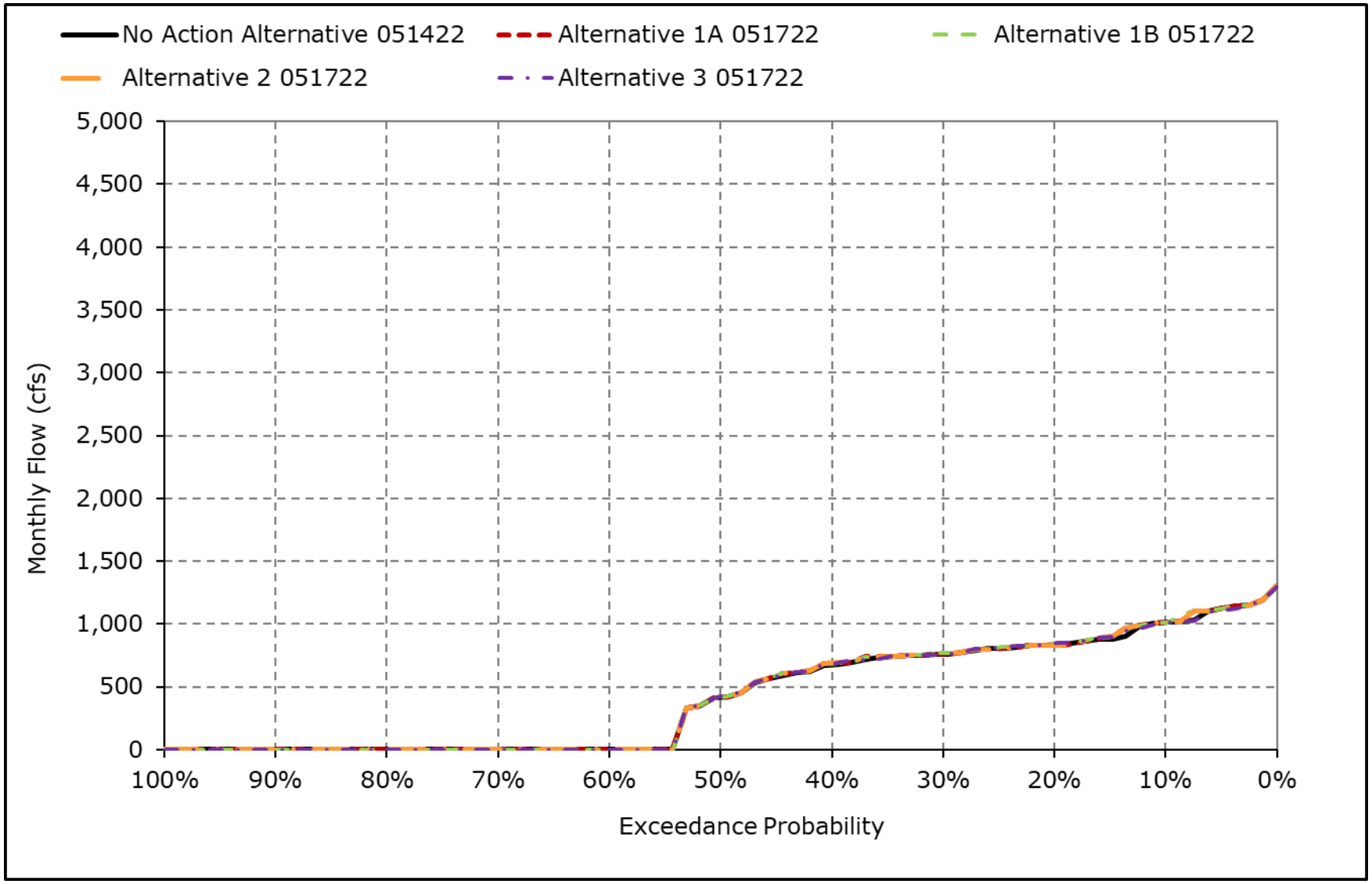
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-2-8. DCC Flow, November



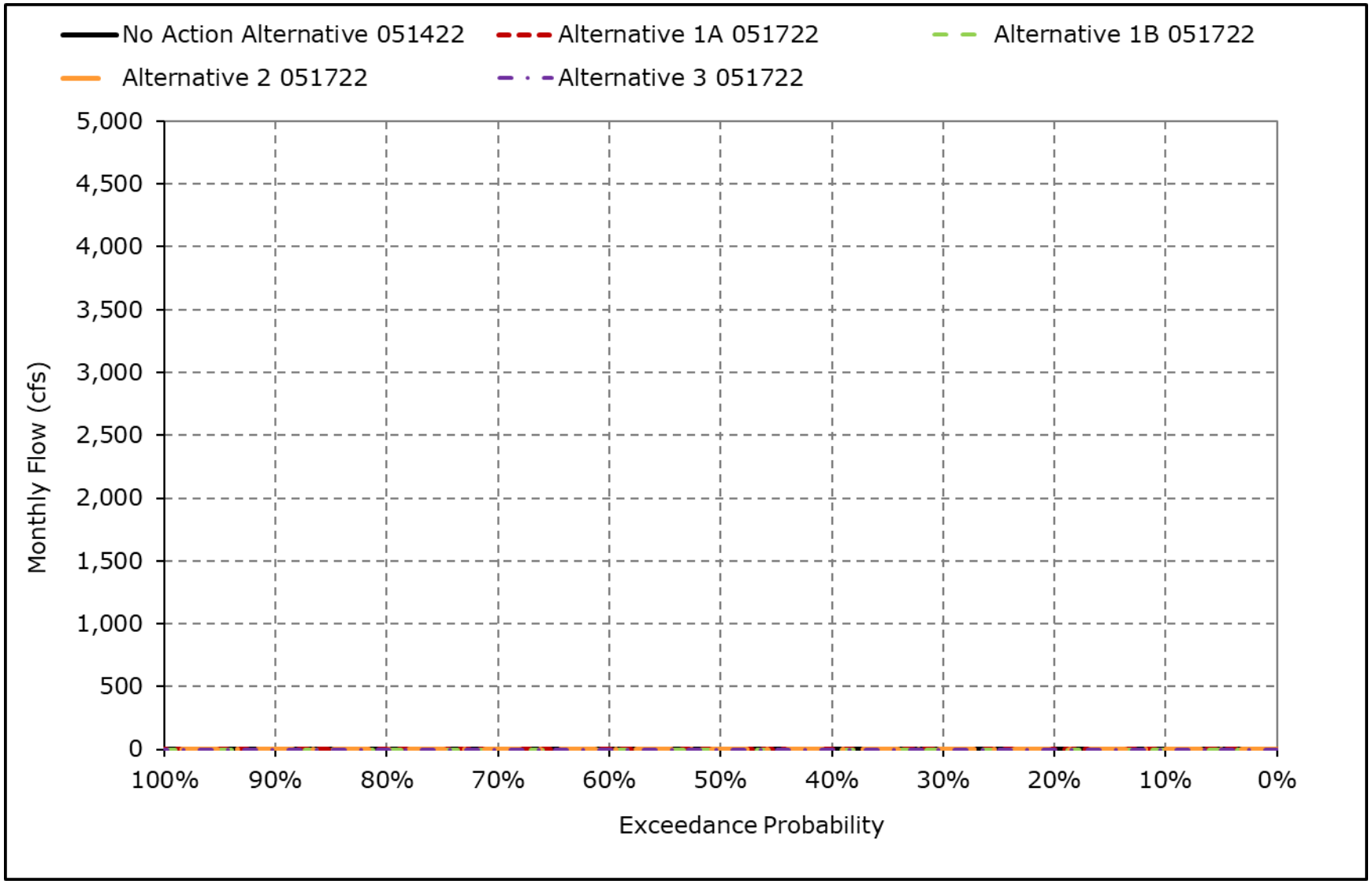
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-2-9. DCC Flow, December



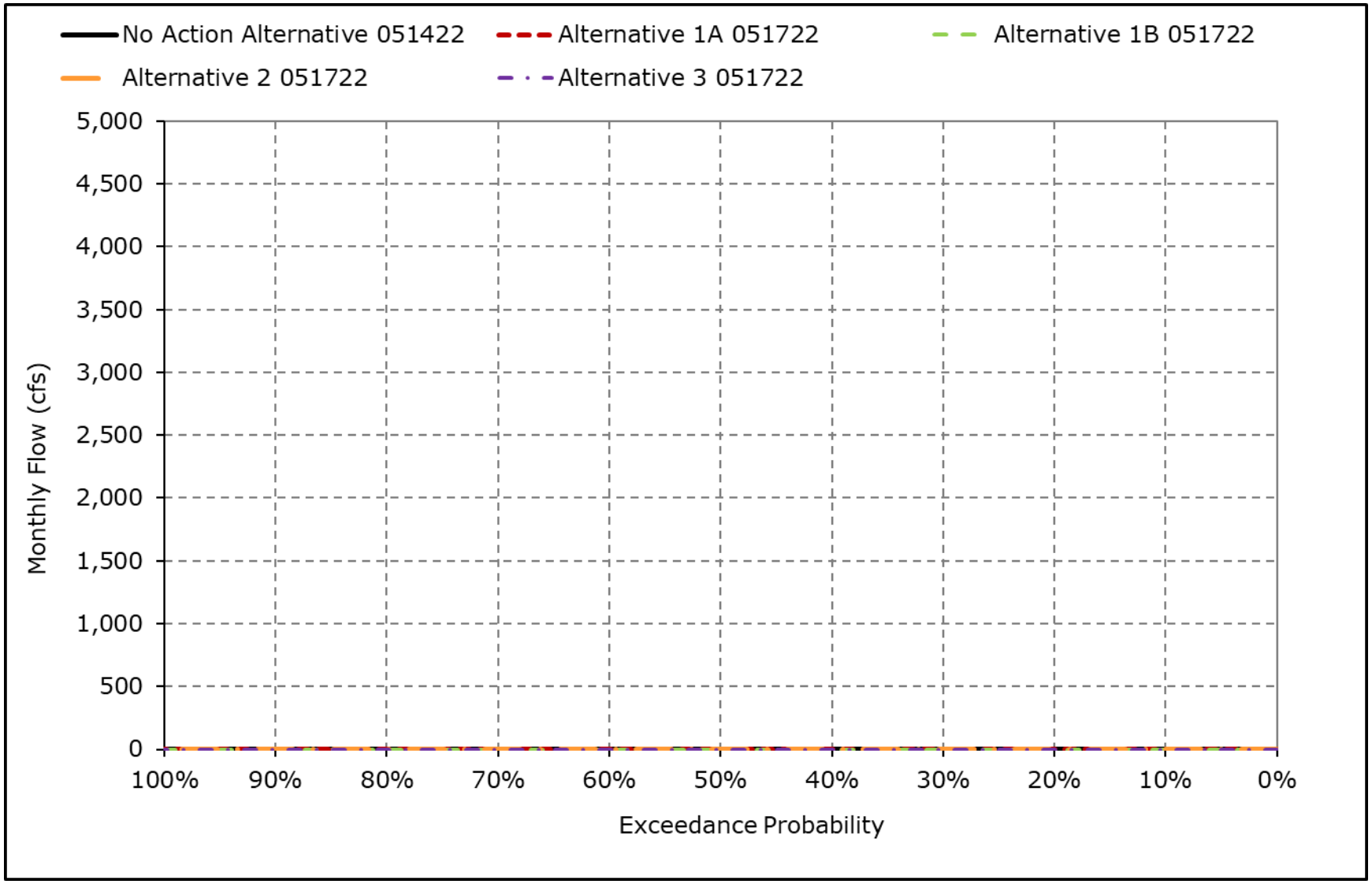
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-2-10. DCC Flow, January



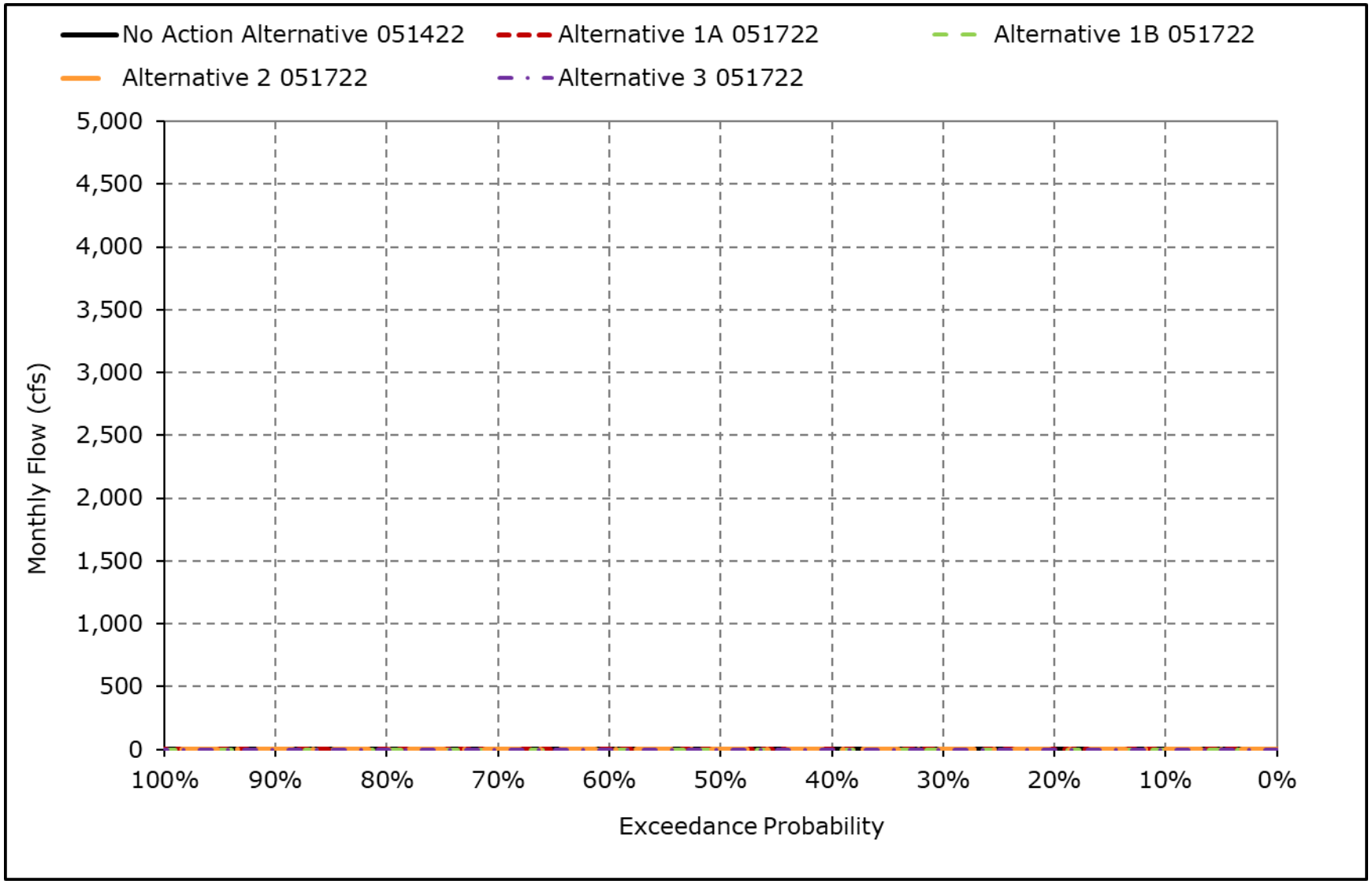
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-2-11. DCC Flow, February



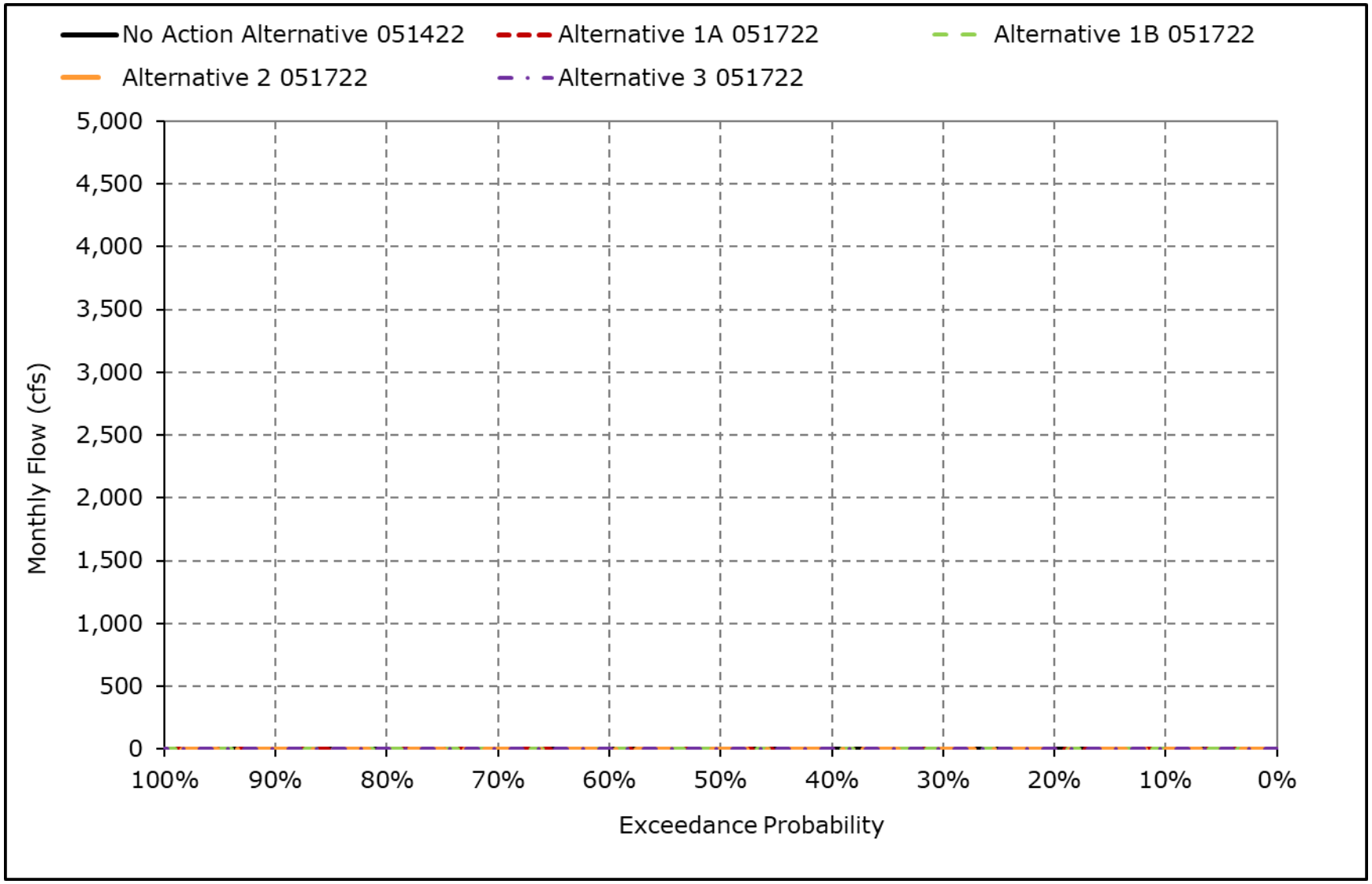
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-2-12. DCC Flow, March



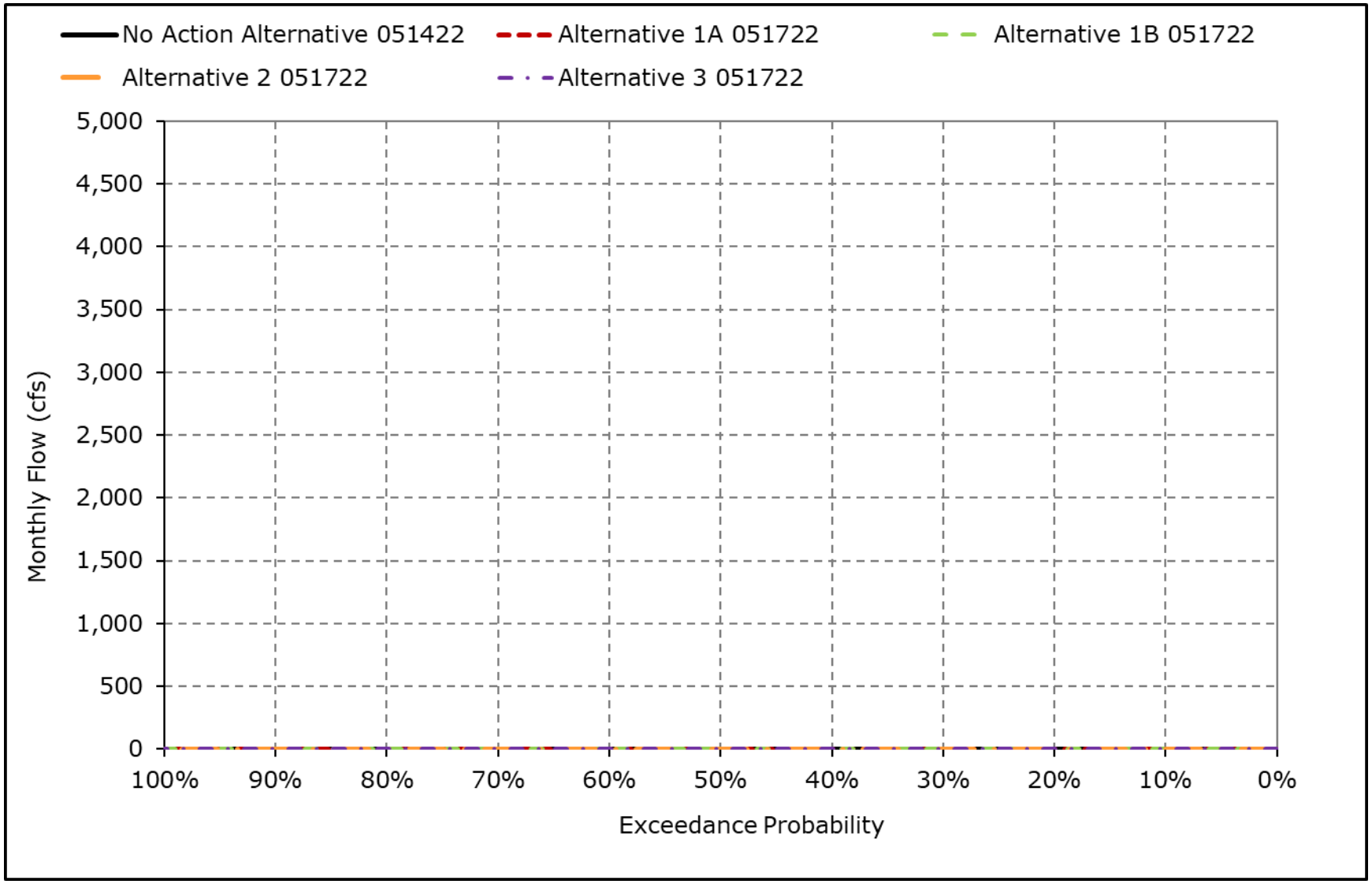
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-2-13. DCC Flow, April



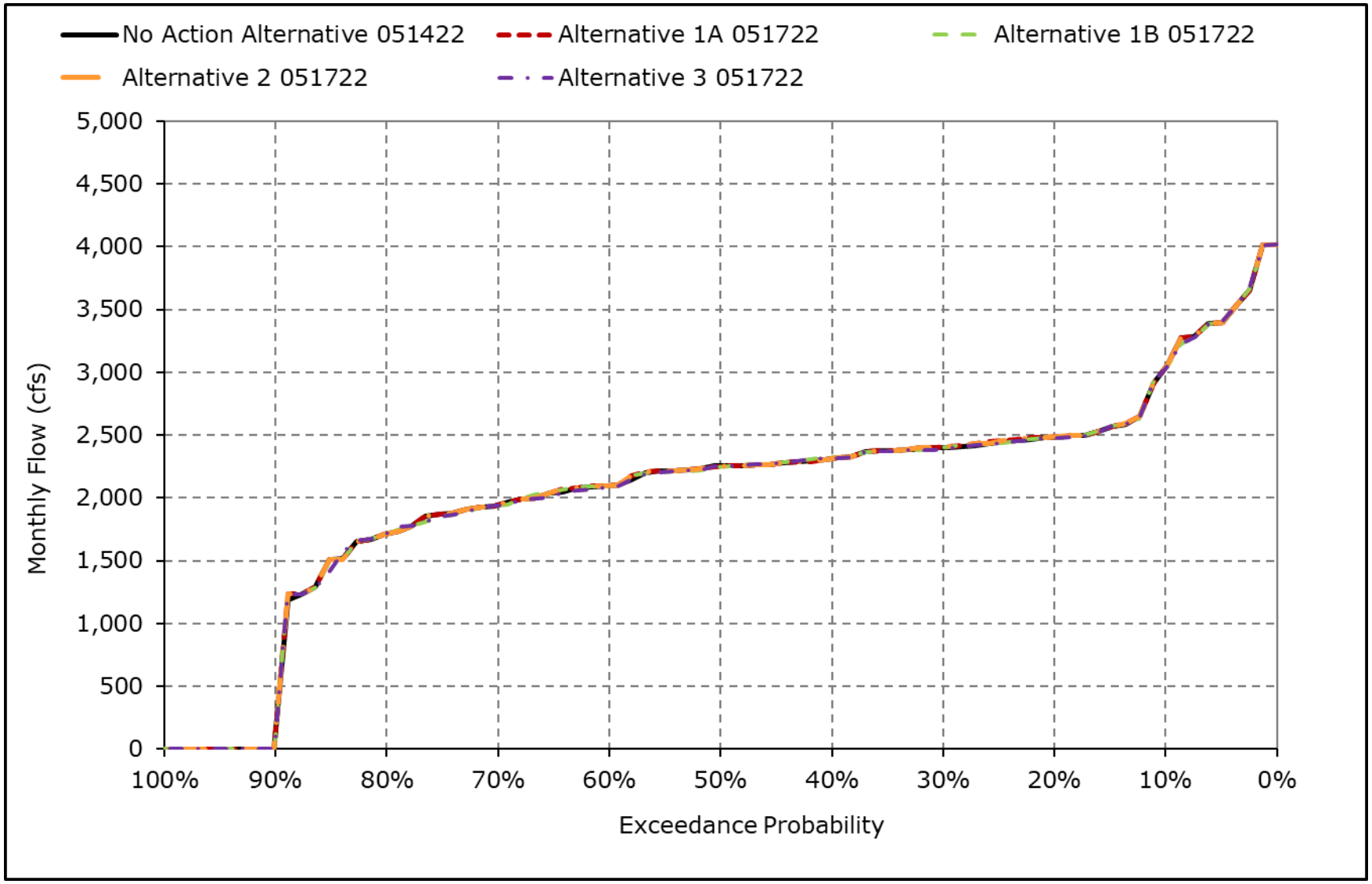
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-2-14. DCC Flow, May



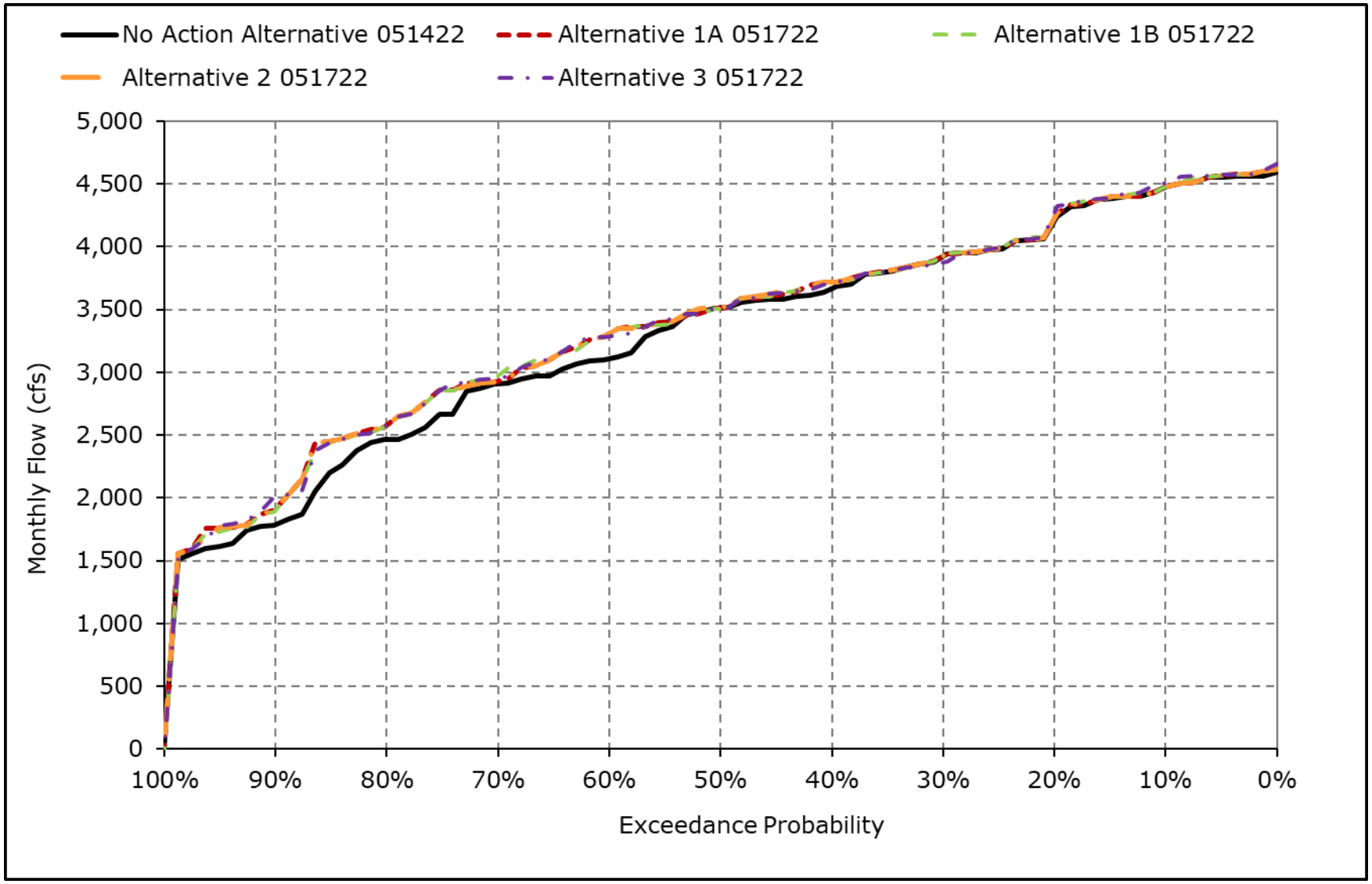
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-2-15. DCC Flow, June



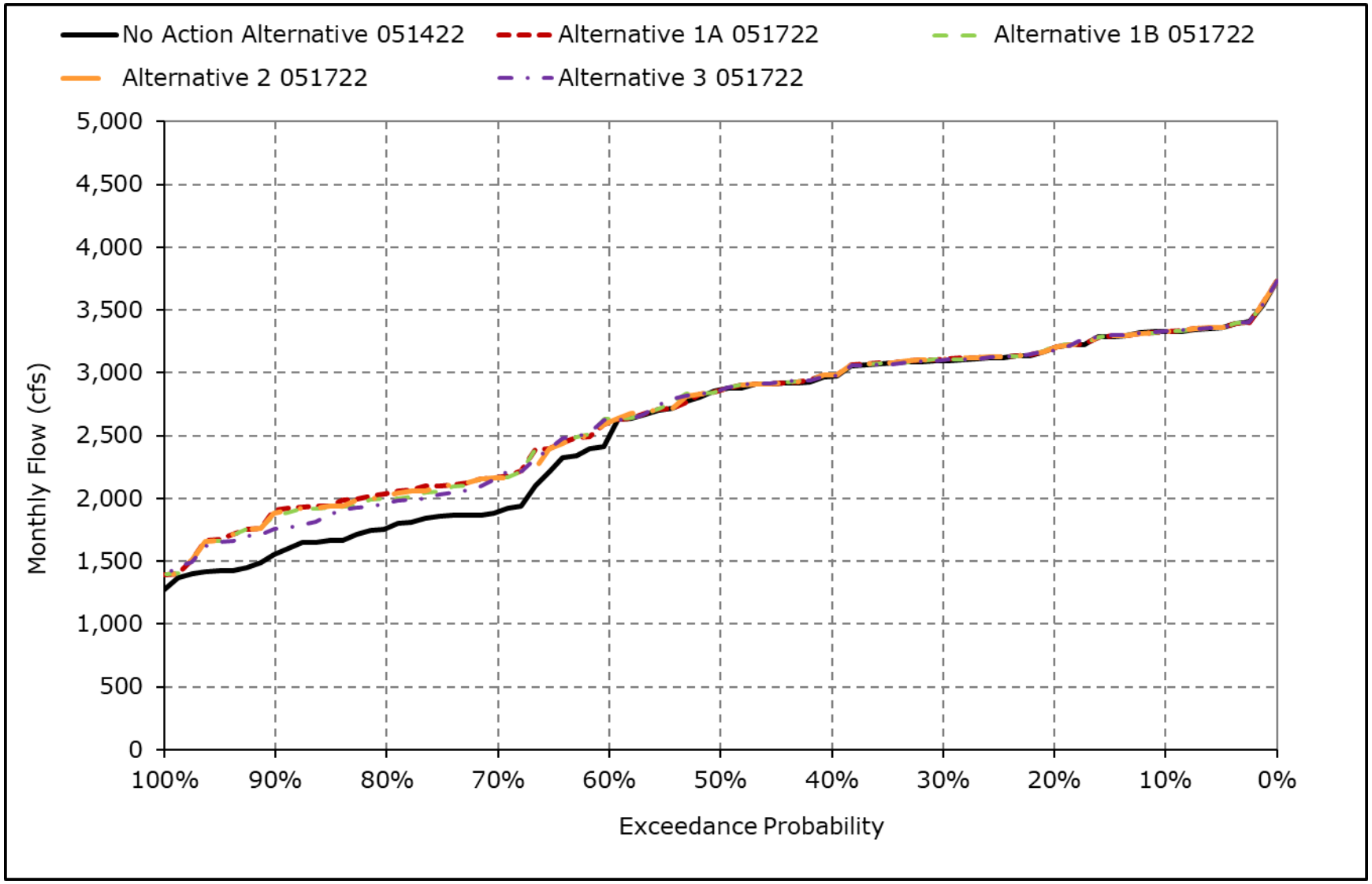
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-2-16. DCC Flow, July



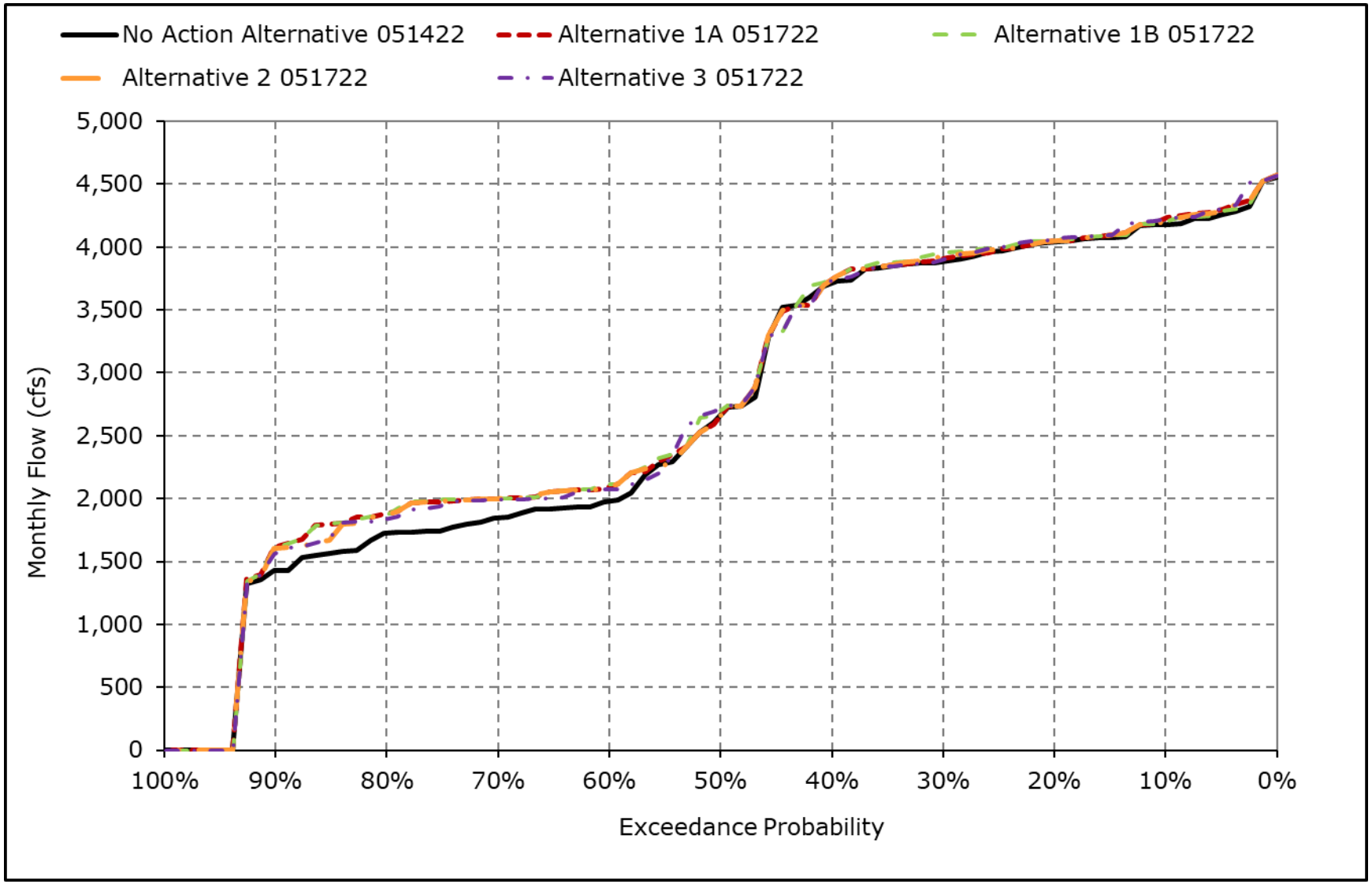
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-2-17. DCC Flow, August



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-2-18. DCC Flow, September



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 5B3-3-1a. Yolo Bypass Flow, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	63	707	12,952	33,887	47,138	23,642	7,047	820	68	48	183	140
20% Exceedance	61	155	4,833	15,926	16,035	9,011	3,186	78	68	48	55	60
30% Exceedance	58	47	1,649	6,444	10,621	5,001	1,068	74	68	48	55	59
40% Exceedance	53	20	542	2,953	8,787	2,880	331	71	68	48	55	59
50% Exceedance	45	10	232	751	3,515	1,408	139	68	67	48	55	59
60% Exceedance	40	7	123	431	1,351	641	113	65	67	48	55	59
70% Exceedance	29	2	42	203	454	204	92	63	66	48	55	58
80% Exceedance	16	0	20	64	155	69	80	59	64	48	55	55
90% Exceedance	4	0	1	22	47	37	58	53	62	48	54	52
Full Simulation Period Average[a]	104	468	4,109	10,835	14,871	8,455	2,653	287	99	48	100	78
Wet Water Years (32%)	86	595	5,269	28,589	35,823	21,201	6,960	642	169	48	143	80
Above Normal Water Years (15%)	37	975	2,043	8,668	14,875	8,922	1,914	309	66	48	95	65
Below Normal Water Years (17%)	327	434	4,425	1,690	4,632	1,011	483	67	66	48	114	111
Dry Water Years (22%)	43	270	6,070	712	2,084	931	308	77	67	48	62	65
Critical Water Years (15%)	41	22	349	387	600	343	107	68	64	48	54	69

Table 5B3-3-1b. Yolo Bypass Flow, Alternative 1A 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	449	759	12,456	31,118	44,619	23,606	6,594	806	68	48	450	463
20% Exceedance	419	155	4,402	15,211	15,871	8,413	3,171	78	68	48	445	436
30% Exceedance	398	47	1,285	6,256	9,839	4,301	1,071	74	68	48	445	403
40% Exceedance	386	19	524	2,741	8,534	2,821	331	71	68	48	445	403
50% Exceedance	101	10	220	728	3,300	1,365	139	68	67	48	444	377
60% Exceedance	61	7	120	440	1,336	642	113	65	67	48	432	98
70% Exceedance	53	4	42	203	429	204	92	63	66	48	79	59
80% Exceedance	41	0	20	77	156	71	80	59	64	48	55	59
90% Exceedance	13	0	1	22	47	37	58	53	62	48	55	57
Full Simulation Period Average[a]	266	429	3,925	10,478	14,331	8,276	2,557	264	98	48	319	269
Wet Water Years (32%)	395	565	5,091	27,853	34,686	21,073	6,737	569	168	48	471	413
Above Normal Water Years (15%)	254	888	1,948	7,984	14,256	8,129	1,748	309	66	48	420	406
Below Normal Water Years (17%)	452	375	4,007	1,606	4,343	964	482	67	66	48	281	258
Dry Water Years (22%)	70	240	5,880	684	1,929	873	308	77	67	48	211	103
Critical Water Years (15%)	74	22	346	367	562	333	107	68	64	48	97	82

Table 5B3-3-1c. Yolo Bypass Flow, Alternative 1A 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	386	52	-495	-2,768	-2,519	-36	-452	-14	0	0	266	323
20% Exceedance	358	0	-430	-714	-165	-598	-15	0	0	0	390	377
30% Exceedance	340	0	-364	-189	-782	-700	3	0	0	0	390	344
40% Exceedance	333	-1	-18	-212	-253	-60	0	0	0	0	390	344
50% Exceedance	56	0	-13	-24	-216	-43	0	0	0	0	389	318
60% Exceedance	21	0	-3	8	-15	1	0	0	0	0	377	39
70% Exceedance	24	2	0	0	-26	0	0	0	0	0	24	1
80% Exceedance	25	0	0	13	1	2	0	0	0	0	0	4
90% Exceedance	8	0	0	0	0	0	0	0	0	0	1	5
Full Simulation Period Average[a]	162	-39	-184	-357	-540	-179	-95	-23	0	0	219	191
Wet Water Years (32%)	309	-30	-178	-736	-1,137	-128	-223	-73	-1	0	328	333
Above Normal Water Years (15%)	217	-88	-95	-685	-620	-793	-166	0	0	0	325	341
Below Normal Water Years (17%)	125	-58	-419	-84	-290	-48	-1	0	0	0	167	147
Dry Water Years (22%)	27	-30	-190	-28	-154	-58	0	0	0	0	149	38
Critical Water Years (15%)	33	0	-3	-20	-38	-10	0	0	0	0	42	12

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-3-2a. Yolo Bypass Flow, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	63	707	12,952	33,887	47,138	23,642	7,047	820	68	48	183	140
20% Exceedance	61	155	4,833	15,926	16,035	9,011	3,186	78	68	48	55	60
30% Exceedance	58	47	1,649	6,444	10,621	5,001	1,068	74	68	48	55	59
40% Exceedance	53	20	542	2,953	8,787	2,880	331	71	68	48	55	59
50% Exceedance	45	10	232	751	3,515	1,408	139	68	67	48	55	59
60% Exceedance	40	7	123	431	1,351	641	113	65	67	48	55	59
70% Exceedance	29	2	42	203	454	204	92	63	66	48	55	58
80% Exceedance	16	0	20	64	155	69	80	59	64	48	55	55
90% Exceedance	4	0	1	22	47	37	58	53	62	48	54	52
Full Simulation Period Average[a]	104	468	4,109	10,835	14,871	8,455	2,653	287	99	48	100	78
Wet Water Years (32%)	86	595	5,269	28,589	35,823	21,201	6,960	642	169	48	143	80
Above Normal Water Years (15%)	37	975	2,043	8,668	14,875	8,922	1,914	309	66	48	95	65
Below Normal Water Years (17%)	327	434	4,425	1,690	4,632	1,011	483	67	66	48	114	111
Dry Water Years (22%)	43	270	6,070	712	2,084	931	308	77	67	48	62	65
Critical Water Years (15%)	41	22	349	387	600	343	107	68	64	48	54	69

Table 5B3-3-2b. Yolo Bypass Flow, Alternative 1B 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	447	759	12,414	31,129	44,554	23,596	6,594	806	68	48	450	462
20% Exceedance	406	155	4,527	14,809	15,871	8,360	3,171	78	68	48	445	417
30% Exceedance	393	48	1,285	6,256	9,857	4,302	1,071	74	68	48	445	403
40% Exceedance	240	19	422	2,602	8,590	2,787	331	71	68	48	445	403
50% Exceedance	63	10	207	728	3,300	1,342	139	68	67	48	444	291
60% Exceedance	60	7	116	440	1,337	643	113	65	67	48	432	84
70% Exceedance	53	3	42	203	429	204	92	63	66	48	55	59
80% Exceedance	40	0	20	64	156	71	80	59	64	48	55	59
90% Exceedance	13	0	1	22	47	37	58	53	62	48	55	57
Full Simulation Period Average[a]	247	427	3,913	10,463	14,345	8,286	2,558	264	98	48	318	259
Wet Water Years (32%)	364	550	5,078	27,837	34,709	21,050	6,737	570	168	48	471	401
Above Normal Water Years (15%)	247	906	1,936	7,952	14,258	8,243	1,748	309	66	48	420	406
Below Normal Water Years (17%)	439	376	4,016	1,585	4,376	964	482	67	66	48	281	216
Dry Water Years (22%)	69	241	5,847	677	1,930	872	308	77	67	48	206	111
Critical Water Years (15%)	41	22	346	367	562	333	107	68	64	48	97	80

Table 5B3-3-2c. Yolo Bypass Flow, Alternative 1B 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	383	52	-538	-2,758	-2,585	-46	-452	-14	0	0	266	322
20% Exceedance	345	0	-305	-1,117	-165	-651	-15	0	0	0	390	357
30% Exceedance	335	1	-364	-188	-764	-699	3	0	0	0	390	344
40% Exceedance	187	0	-120	-352	-197	-94	0	0	0	0	390	344
50% Exceedance	18	0	-25	-23	-216	-66	0	0	0	0	389	232
60% Exceedance	20	0	-7	9	-15	2	0	0	0	0	377	25
70% Exceedance	23	1	0	0	-25	0	0	0	0	0	0	1
80% Exceedance	24	0	0	0	1	2	0	0	0	0	0	4
90% Exceedance	8	0	0	0	0	0	0	0	0	0	1	5
Full Simulation Period Average[a]	144	-41	-195	-372	-527	-170	-95	-23	0	0	218	181
Wet Water Years (32%)	278	-45	-191	-752	-1,114	-151	-223	-72	-1	0	328	320
Above Normal Water Years (15%)	210	-69	-107	-716	-617	-678	-166	0	0	0	325	341
Below Normal Water Years (17%)	112	-58	-410	-105	-256	-48	-1	0	0	0	167	105
Dry Water Years (22%)	26	-29	-223	-35	-153	-59	0	0	0	0	144	46
Critical Water Years (15%)	0	0	-3	-20	-38	-10	0	0	0	0	43	10

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-3-3a. Yolo Bypass Flow, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	63	707	12,952	33,887	47,138	23,642	7,047	820	68	48	183	140
20% Exceedance	61	155	4,833	15,926	16,035	9,011	3,186	78	68	48	55	60
30% Exceedance	58	47	1,649	6,444	10,621	5,001	1,068	74	68	48	55	59
40% Exceedance	53	20	542	2,953	8,787	2,880	331	71	68	48	55	59
50% Exceedance	45	10	232	751	3,515	1,408	139	68	67	48	55	59
60% Exceedance	40	7	123	431	1,351	641	113	65	67	48	55	59
70% Exceedance	29	2	42	203	454	204	92	63	66	48	55	58
80% Exceedance	16	0	20	64	155	69	80	59	64	48	55	55
90% Exceedance	4	0	1	22	47	37	58	53	62	48	54	52
Full Simulation Period Average[a]	104	468	4,109	10,835	14,871	8,455	2,653	287	99	48	100	78
Wet Water Years (32%)	86	595	5,269	28,589	35,823	21,201	6,960	642	169	48	143	80
Above Normal Water Years (15%)	37	975	2,043	8,668	14,875	8,922	1,914	309	66	48	95	65
Below Normal Water Years (17%)	327	434	4,425	1,690	4,632	1,011	483	67	66	48	114	111
Dry Water Years (22%)	43	270	6,070	712	2,084	931	308	77	67	48	62	65
Critical Water Years (15%)	41	22	349	387	600	343	107	68	64	48	54	69

Table 5B3-3-3b. Yolo Bypass Flow, Alternative 2 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	448	759	12,419	31,112	45,436	23,606	6,594	809	68	48	482	463
20% Exceedance	409	155	4,403	15,214	15,871	8,655	3,171	78	68	48	445	443
30% Exceedance	403	47	1,285	6,256	9,839	4,301	1,072	74	68	48	445	403
40% Exceedance	395	19	524	2,688	8,534	2,821	331	71	68	48	445	403
50% Exceedance	143	10	220	728	3,300	1,367	139	68	67	48	445	403
60% Exceedance	63	7	120	440	1,336	642	113	65	67	48	444	167
70% Exceedance	53	3	42	203	429	204	92	63	66	48	373	59
80% Exceedance	43	0	20	77	156	71	80	59	64	48	55	59
90% Exceedance	19	0	1	22	47	37	58	53	62	48	55	57
Full Simulation Period Average[a]	277	429	3,923	10,482	14,374	8,288	2,558	264	98	48	344	287
Wet Water Years (32%)	402	565	5,078	27,869	34,831	21,099	6,738	569	168	48	471	429
Above Normal Water Years (15%)	310	888	1,953	7,986	14,256	8,154	1,748	309	66	48	453	436
Below Normal Water Years (17%)	456	376	4,005	1,599	4,325	964	482	67	66	48	309	261
Dry Water Years (22%)	93	240	5,887	684	1,929	873	308	77	67	48	202	118
Critical Water Years (15%)	42	22	346	367	562	333	107	68	64	48	213	118

Table 5B3-3-3c. Yolo Bypass Flow, Alternative 2 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	385	52	-532	-2,775	-1,702	-36	-452	-12	0	0	299	323
20% Exceedance	347	0	-430	-711	-165	-356	-15	0	0	0	390	383
30% Exceedance	345	0	-364	-188	-782	-700	3	0	0	0	390	344
40% Exceedance	341	-1	-18	-266	-253	-60	0	0	0	0	390	344
50% Exceedance	97	0	-13	-24	-216	-41	0	0	0	0	390	344
60% Exceedance	23	0	-3	9	-15	2	0	0	0	0	389	108
70% Exceedance	24	1	0	0	-25	0	0	0	0	0	318	1
80% Exceedance	27	0	0	13	1	2	0	0	0	0	0	4
90% Exceedance	15	0	0	0	0	0	0	0	0	0	1	5
Full Simulation Period Average[a]	174	-39	-186	-353	-497	-167	-95	-23	0	0	244	209
Wet Water Years (32%)	317	-30	-191	-720	-992	-102	-222	-73	-1	0	328	349
Above Normal Water Years (15%)	273	-88	-90	-682	-620	-768	-166	0	0	0	358	371
Below Normal Water Years (17%)	129	-58	-421	-91	-308	-47	-1	0	0	0	195	150
Dry Water Years (22%)	51	-30	-183	-28	-154	-58	0	0	0	0	139	53
Critical Water Years (15%)	0	0	-3	-20	-38	-10	0	0	0	0	158	49

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-3-4a. Yolo Bypass Flow, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	63	707	12,952	33,887	47,138	23,642	7,047	820	68	48	183	140
20% Exceedance	61	155	4,833	15,926	16,035	9,011	3,186	78	68	48	55	60
30% Exceedance	58	47	1,649	6,444	10,621	5,001	1,068	74	68	48	55	59
40% Exceedance	53	20	542	2,953	8,787	2,880	331	71	68	48	55	59
50% Exceedance	45	10	232	751	3,515	1,408	139	68	67	48	55	59
60% Exceedance	40	7	123	431	1,351	641	113	65	67	48	55	59
70% Exceedance	29	2	42	203	454	204	92	63	66	48	55	58
80% Exceedance	16	0	20	64	155	69	80	59	64	48	55	55
90% Exceedance	4	0	1	22	47	37	58	53	62	48	54	52
Full Simulation Period Average[a]	104	468	4,109	10,835	14,871	8,455	2,653	287	99	48	100	78
Wet Water Years (32%)	86	595	5,269	28,589	35,823	21,201	6,960	642	169	48	143	80
Above Normal Water Years (15%)	37	975	2,043	8,668	14,875	8,922	1,914	309	66	48	95	65
Below Normal Water Years (17%)	327	434	4,425	1,690	4,632	1,011	483	67	66	48	114	111
Dry Water Years (22%)	43	270	6,070	712	2,084	931	308	77	67	48	62	65
Critical Water Years (15%)	41	22	349	387	600	343	107	68	64	48	54	69

Table 5B3-3-4b. Yolo Bypass Flow, Alternative 3 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	447	671	12,507	31,374	44,328	23,595	6,594	806	68	48	450	463
20% Exceedance	406	155	4,450	14,512	15,874	8,308	2,893	78	68	48	445	417
30% Exceedance	390	50	1,285	6,257	10,401	4,345	1,071	74	68	48	445	403
40% Exceedance	99	26	524	2,603	8,553	2,694	331	71	68	48	445	403
50% Exceedance	61	10	220	729	3,299	1,342	139	68	67	48	444	266
60% Exceedance	54	7	117	469	1,336	640	113	65	67	48	407	71
70% Exceedance	44	2	42	203	429	204	92	63	66	48	55	59
80% Exceedance	31	0	20	64	156	71	80	59	64	48	55	59
90% Exceedance	11	0	1	22	47	37	58	53	62	48	55	57
Full Simulation Period Average[a]	231	437	3,951	10,475	14,284	8,249	2,537	264	98	48	313	254
Wet Water Years (32%)	323	551	5,105	27,863	34,462	20,923	6,673	570	168	48	471	389
Above Normal Water Years (15%)	188	955	1,867	7,974	14,294	8,262	1,749	309	66	48	420	392
Below Normal Water Years (17%)	438	383	4,000	1,588	4,448	958	482	67	66	48	253	232
Dry Water Years (22%)	90	247	6,038	677	1,929	880	308	77	67	48	209	109
Critical Water Years (15%)	41	22	346	368	561	333	107	68	64	48	90	69

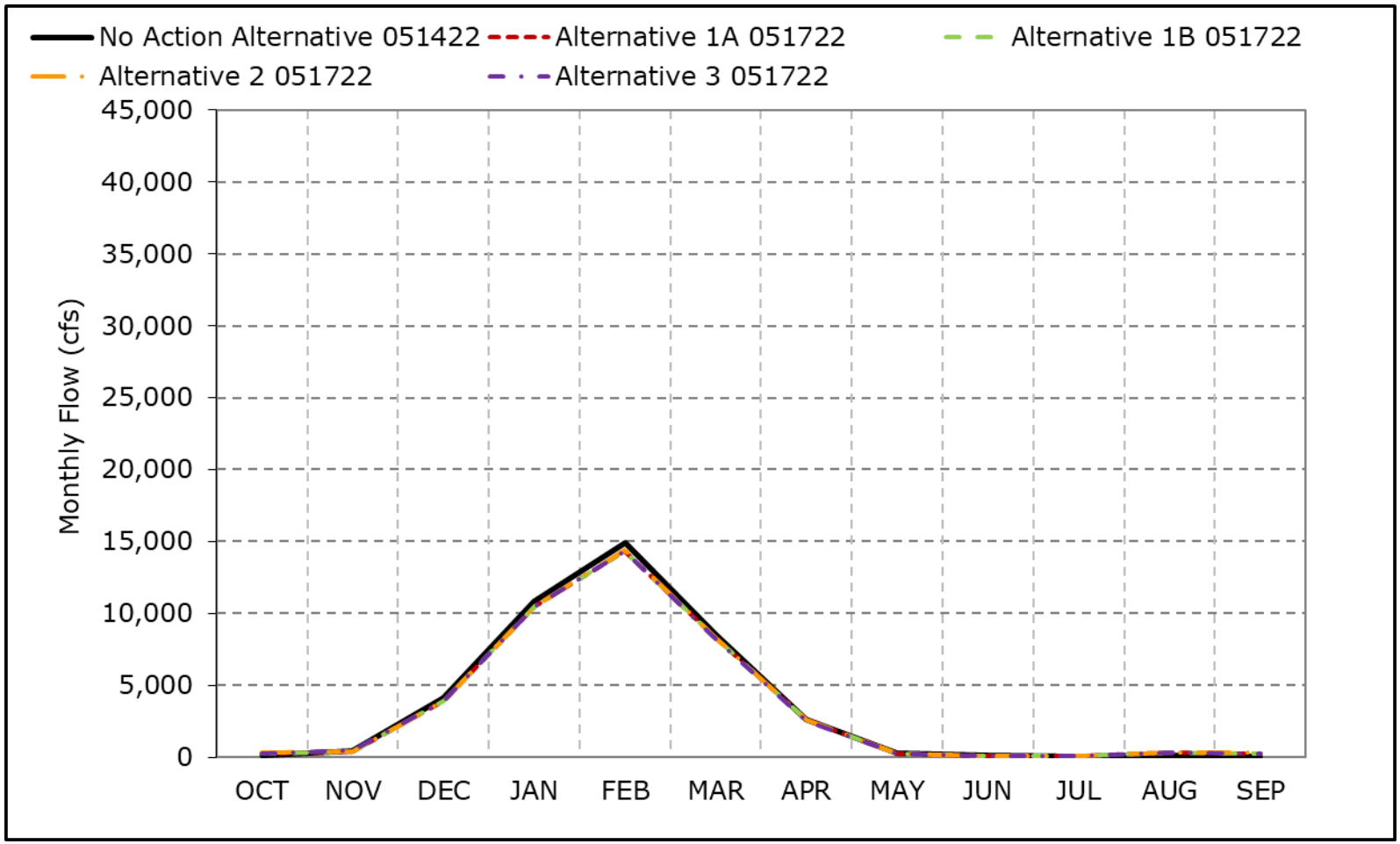
Table 5B3-3-4c. Yolo Bypass Flow, Alternative 3 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	384	-35	-444	-2,513	-2,810	-46	-453	-15	0	0	266	323
20% Exceedance	345	0	-383	-1,413	-161	-703	-293	0	0	0	390	357
30% Exceedance	333	3	-363	-187	-221	-656	3	0	0	0	390	344
40% Exceedance	46	6	-18	-351	-234	-187	0	0	0	0	390	344
50% Exceedance	16	0	-13	-22	-216	-66	0	0	0	0	389	207
60% Exceedance	13	0	-6	38	-15	-1	0	0	0	0	352	12
70% Exceedance	15	0	0	0	-26	0	0	0	0	0	0	1
80% Exceedance	15	0	0	0	1	2	0	0	0	0	0	4
90% Exceedance	7	0	0	1	0	0	0	0	0	0	1	5
Full Simulation Period Average[a]	127	-31	-158	-360	-588	-206	-115	-23	0	0	213	176
Wet Water Years (32%)	237	-44	-163	-726	-1,361	-278	-287	-72	0	0	328	309
Above Normal Water Years (15%)	151	-20	-176	-694	-582	-659	-165	0	0	0	325	327
Below Normal Water Years (17%)	111	-51	-426	-102	-184	-53	-1	0	0	0	139	121
Dry Water Years (22%)	47	-23	-33	-35	-154	-51	0	0	0	0	146	44
Critical Water Years (15%)	0	0	-3	-20	-38	-10	0	0	0	0	36	0

[a] Based on the 82-year simulation period.

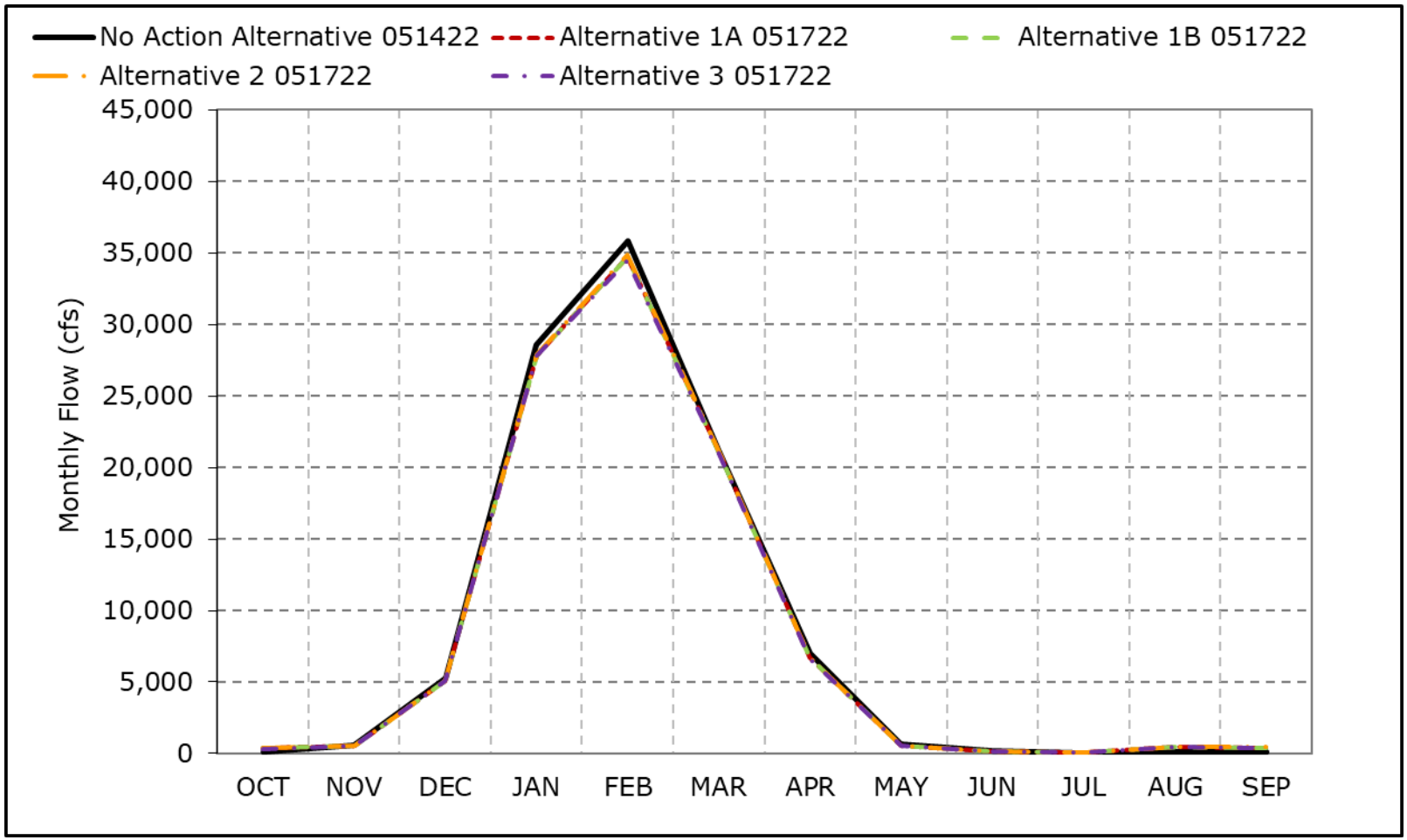
* All scenarios are simulated at current climate condition and 0 cm sea level rise.
* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* Water Year Types results are displayed with calendar year - year type sorting.

Figure 5B3-3-1. Yolo Bypass Flow, Long-Term Average Flow



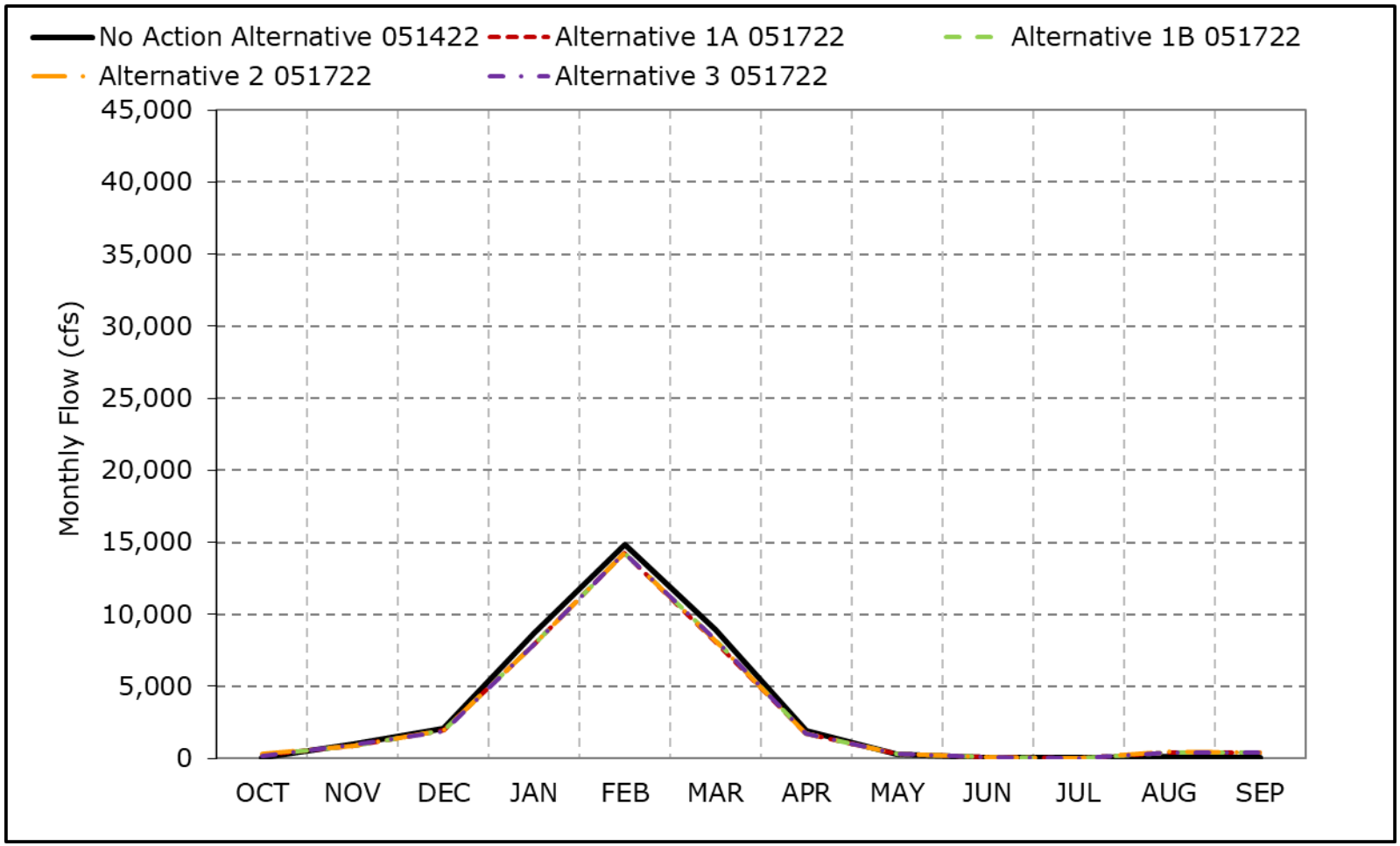
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-3-2. Yolo Bypass Flow, Wet Year Average Flow



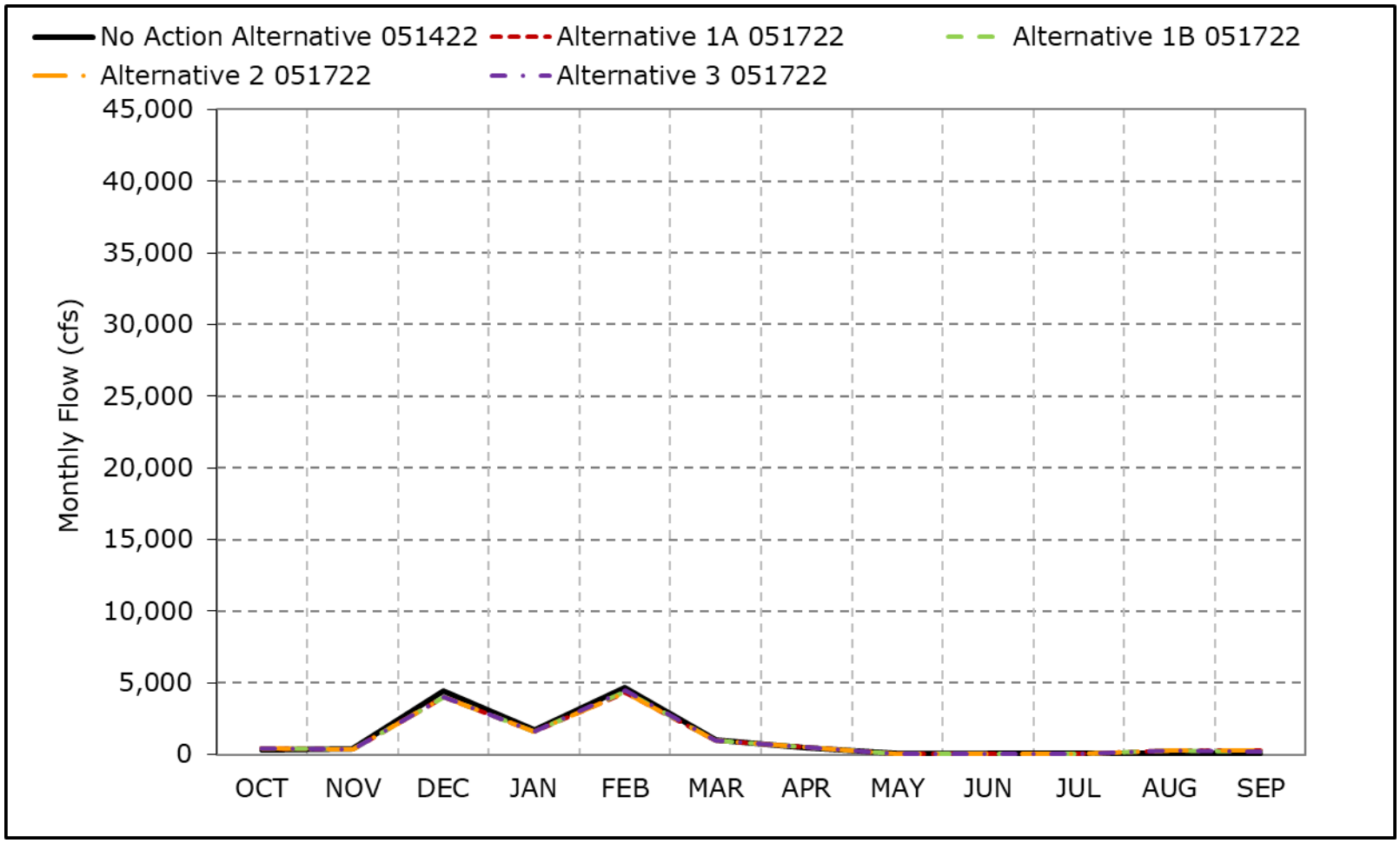
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-3-3. Yolo Bypass Flow, Above Normal Year Average Flow



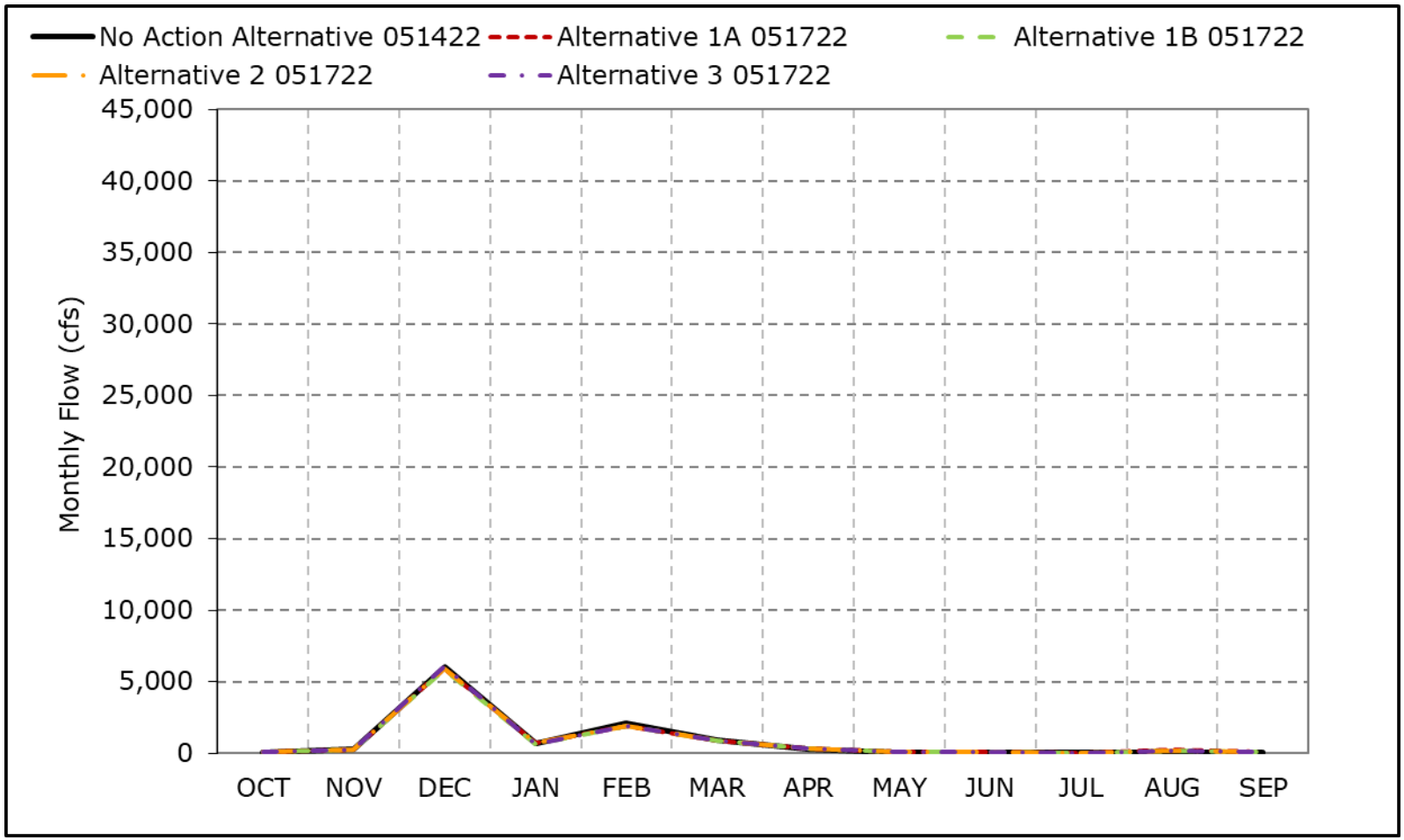
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-3-4. Yolo Bypass Flow, Below Normal Year Average Flow



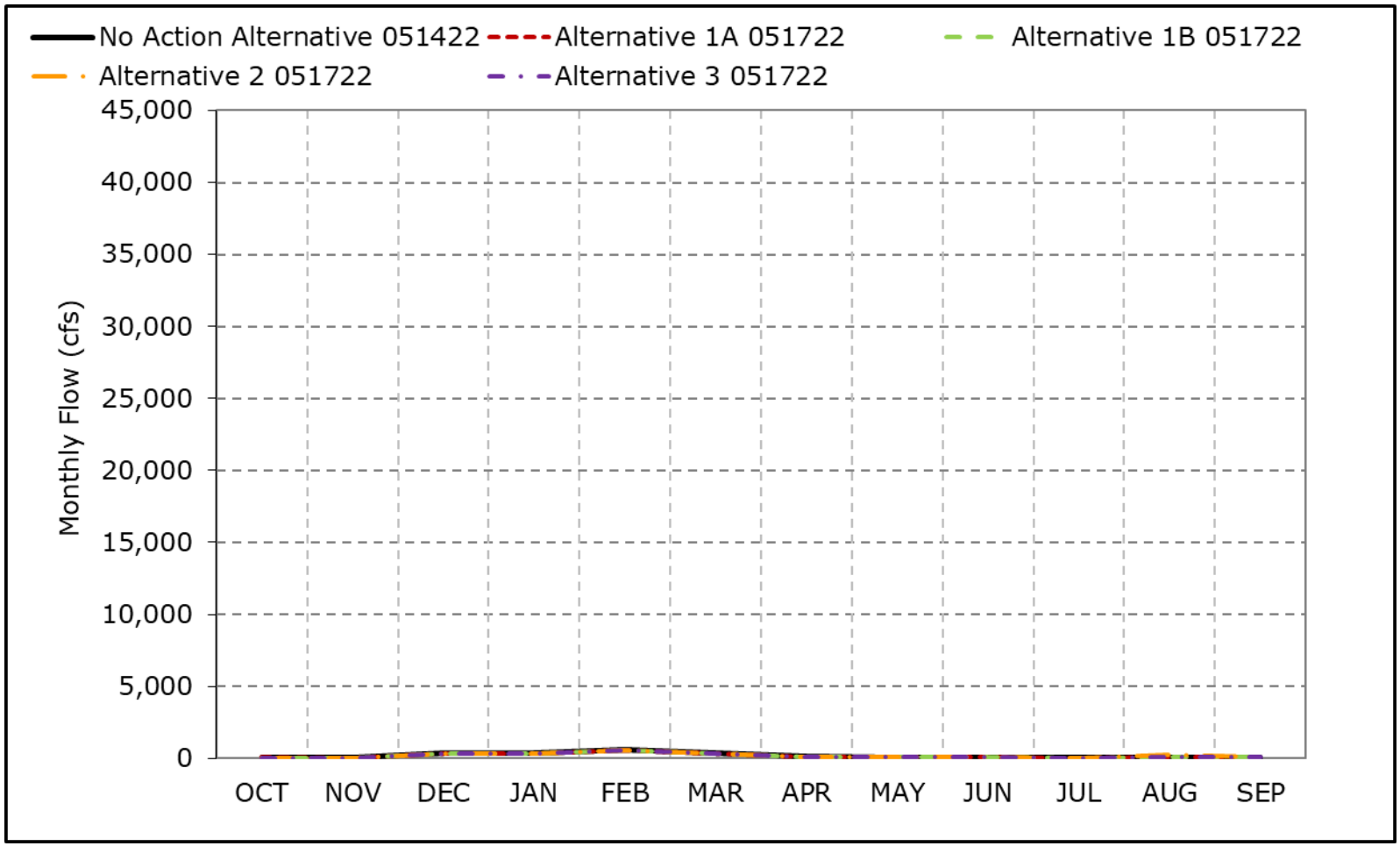
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-3-5. Yolo Bypass Flow, Dry Year Average Flow



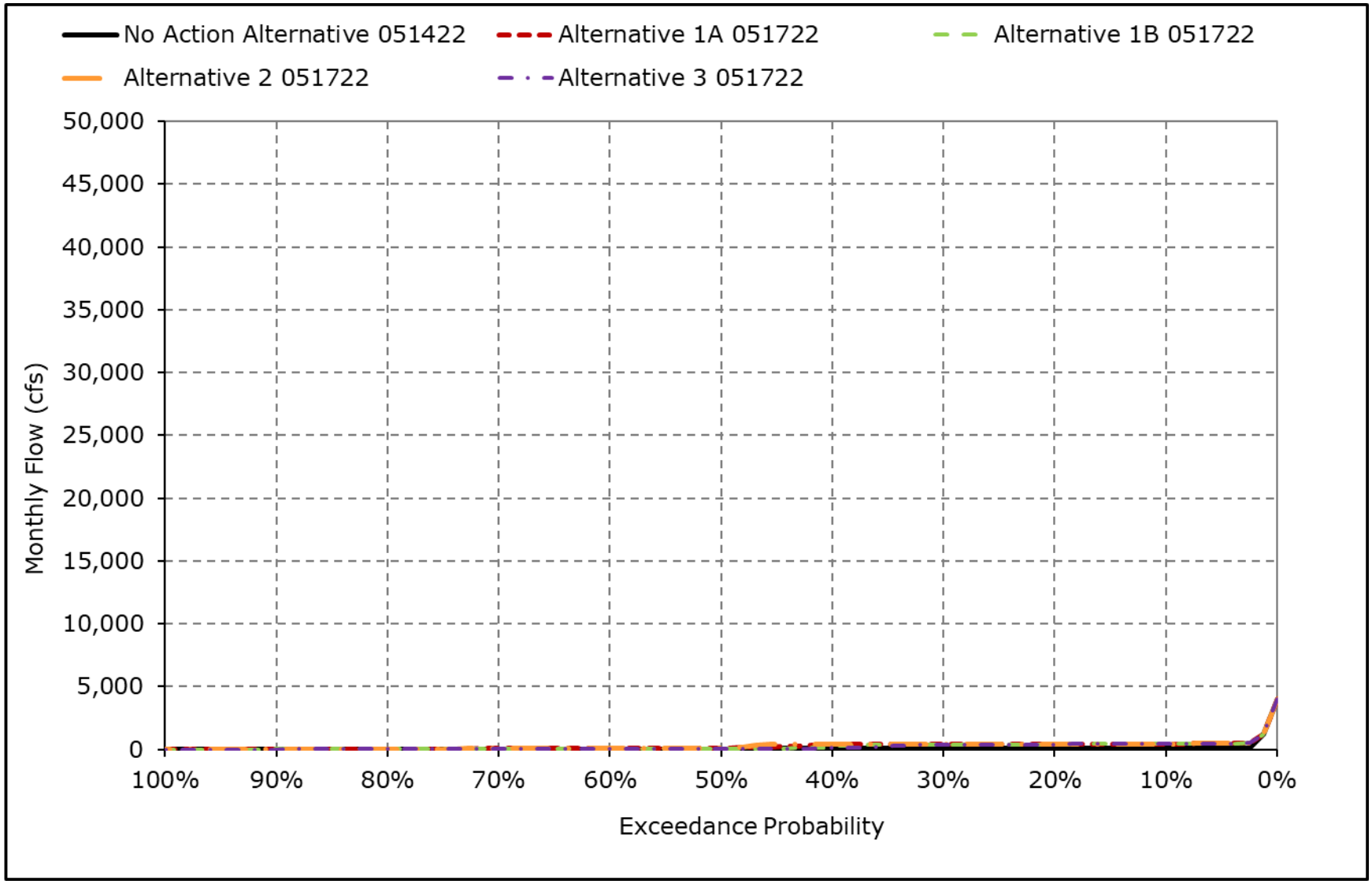
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-3-6. Yolo Bypass Flow, Critical Year Average Flow



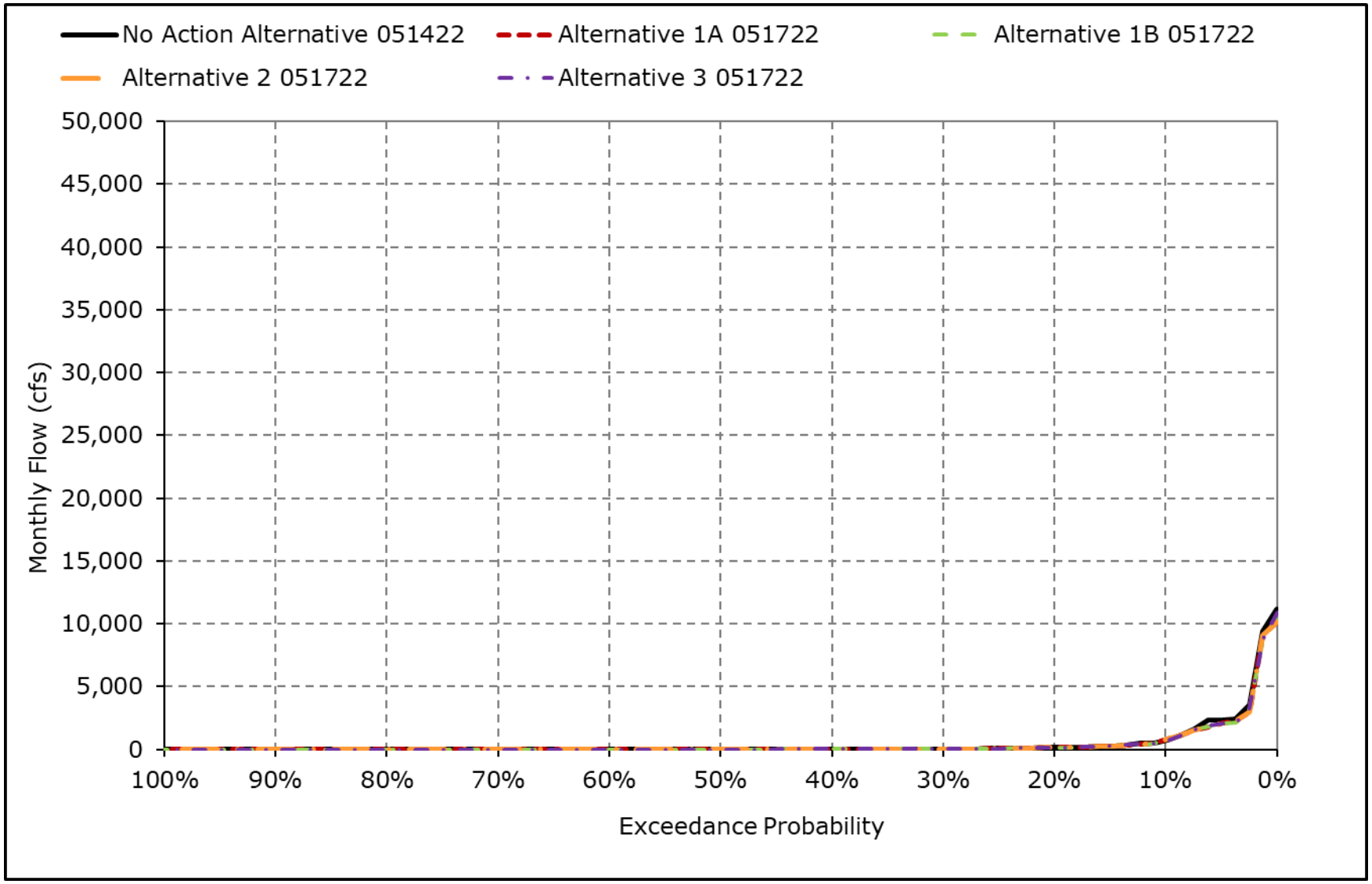
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-3-7. Yolo Bypass Flow, October



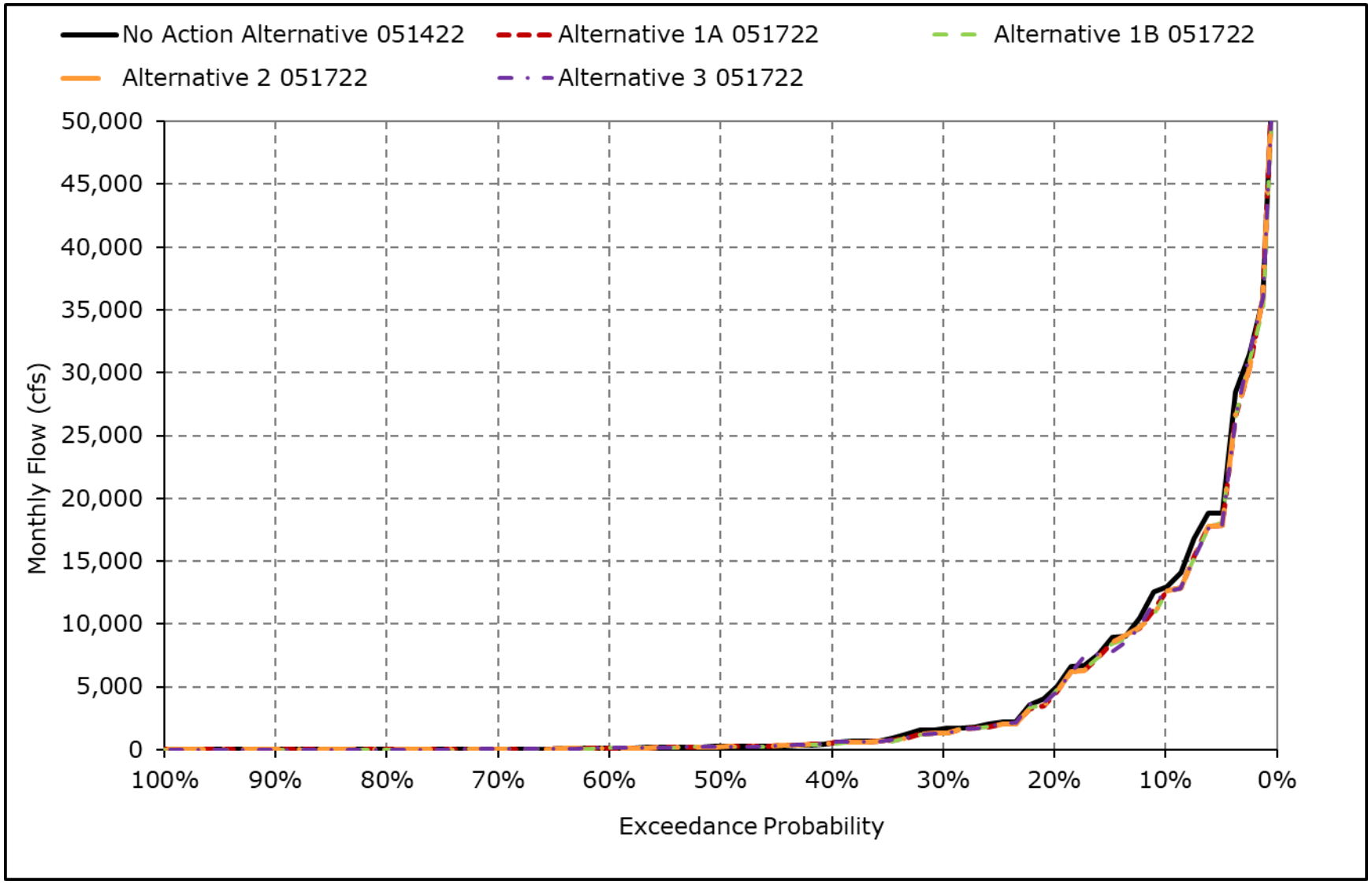
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-3-8. Yolo Bypass Flow, November



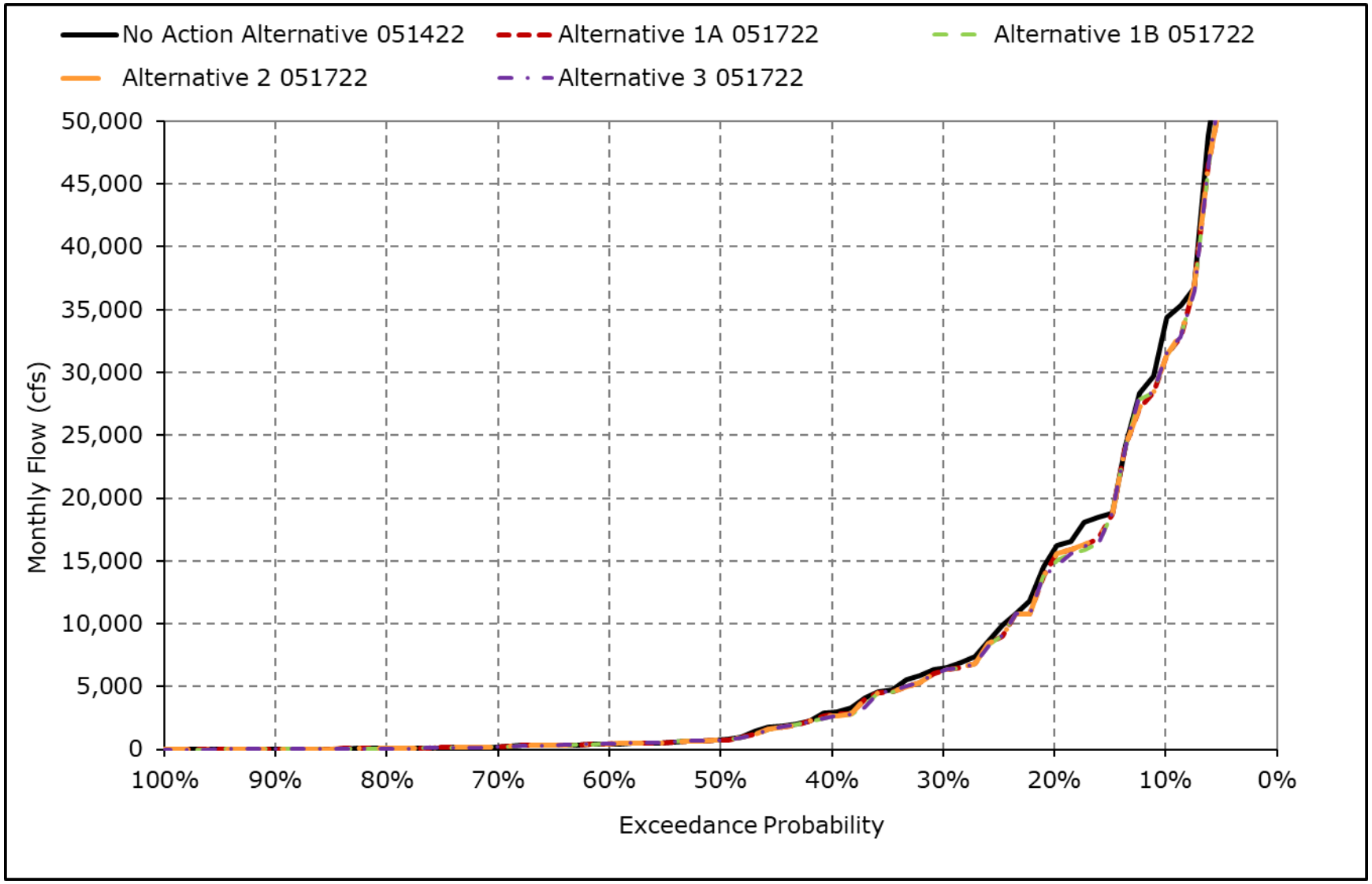
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-3-9. Yolo Bypass Flow, December



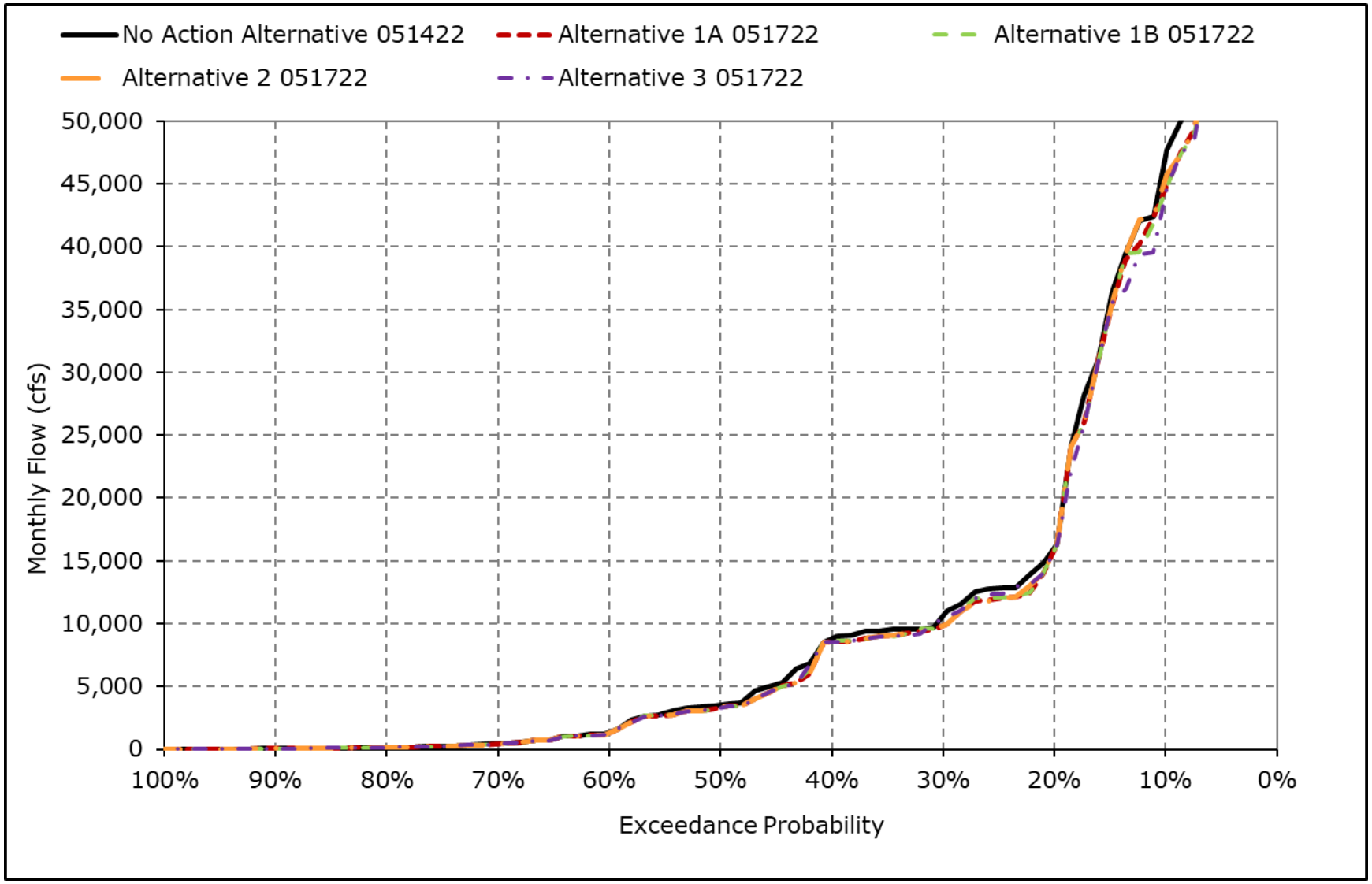
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-3-10. Yolo Bypass Flow, January



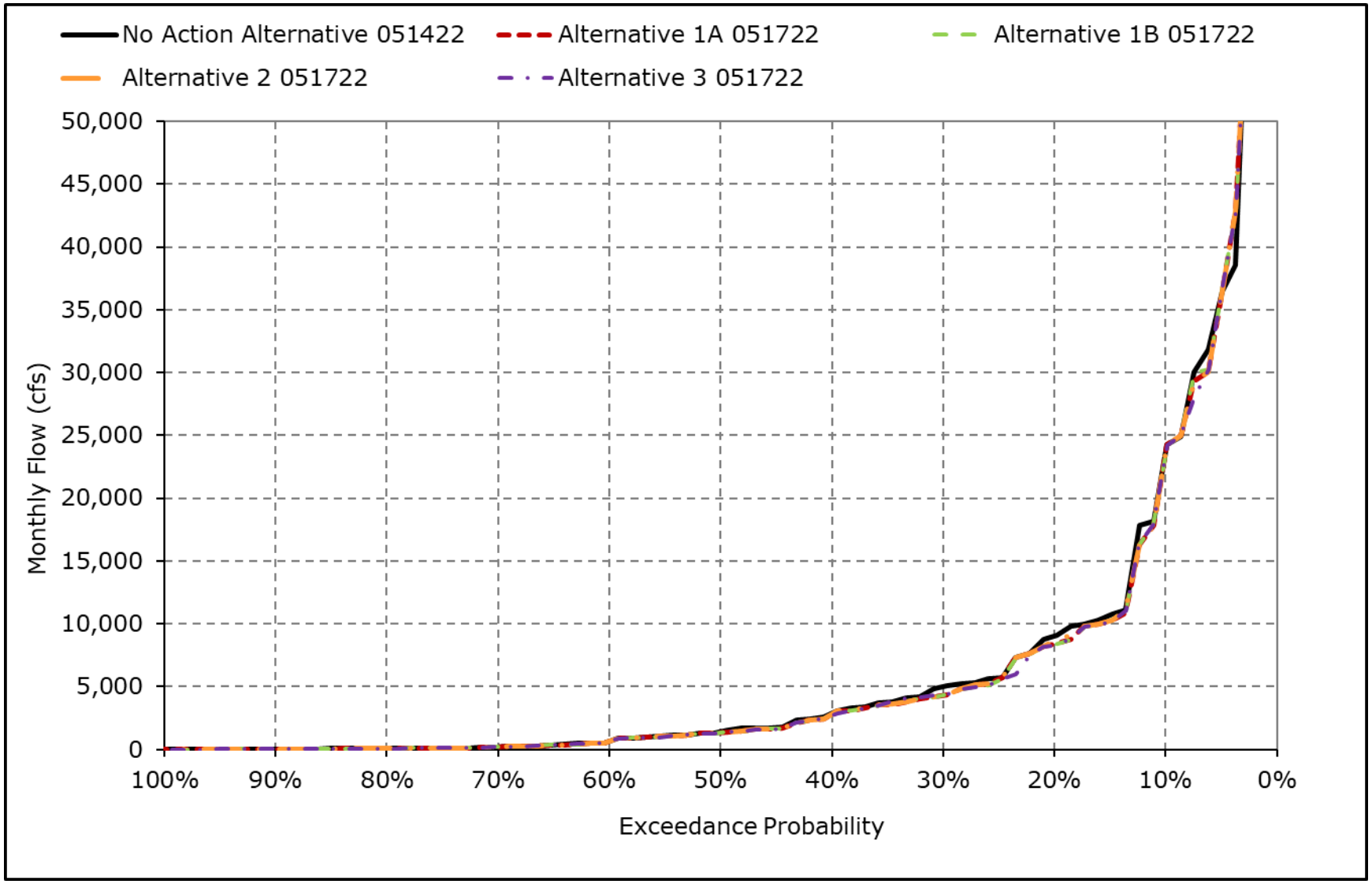
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-3-11. Yolo Bypass Flow, February



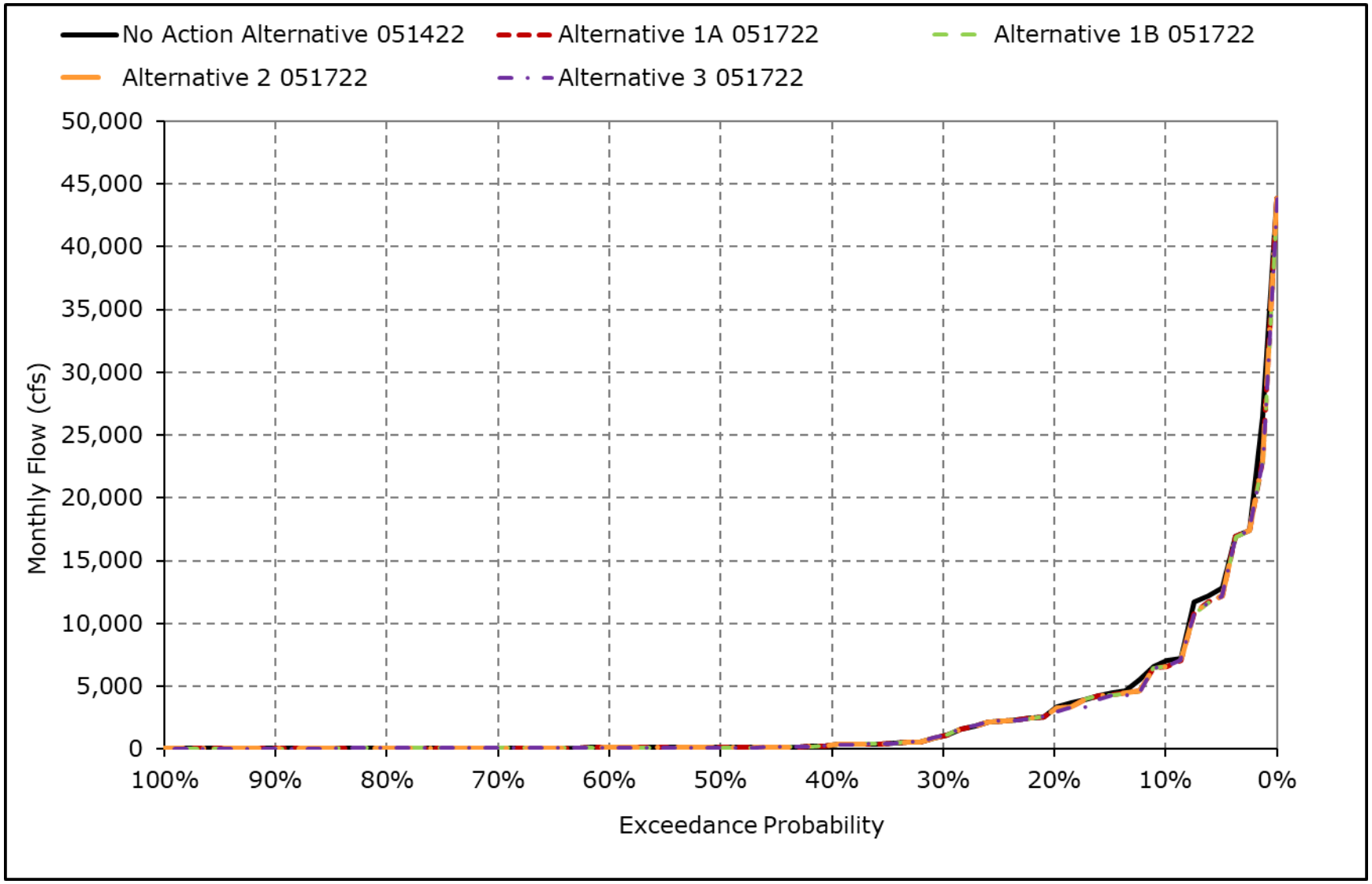
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-3-12. Yolo Bypass Flow, March



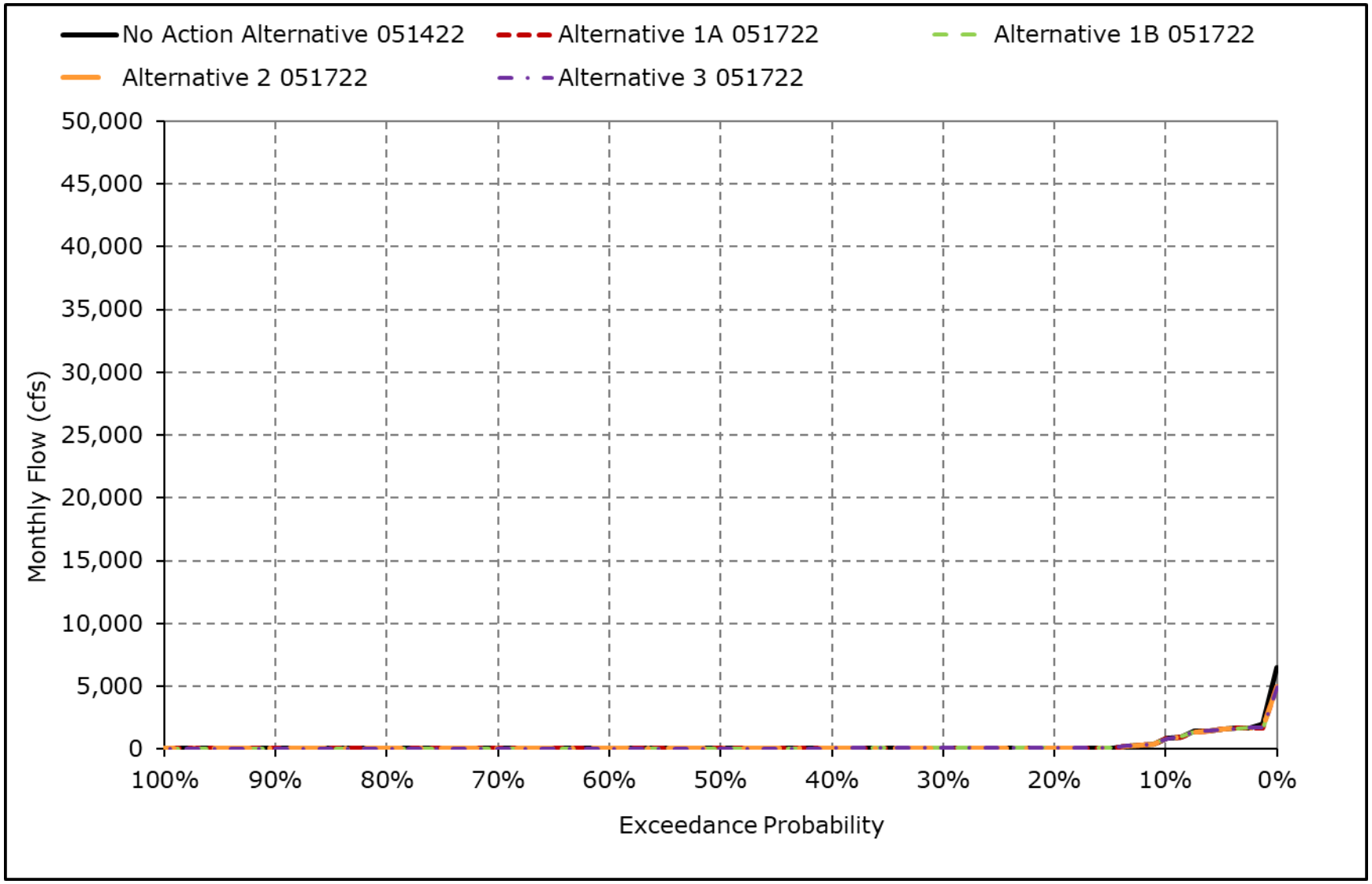
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-3-13. Yolo Bypass Flow, April



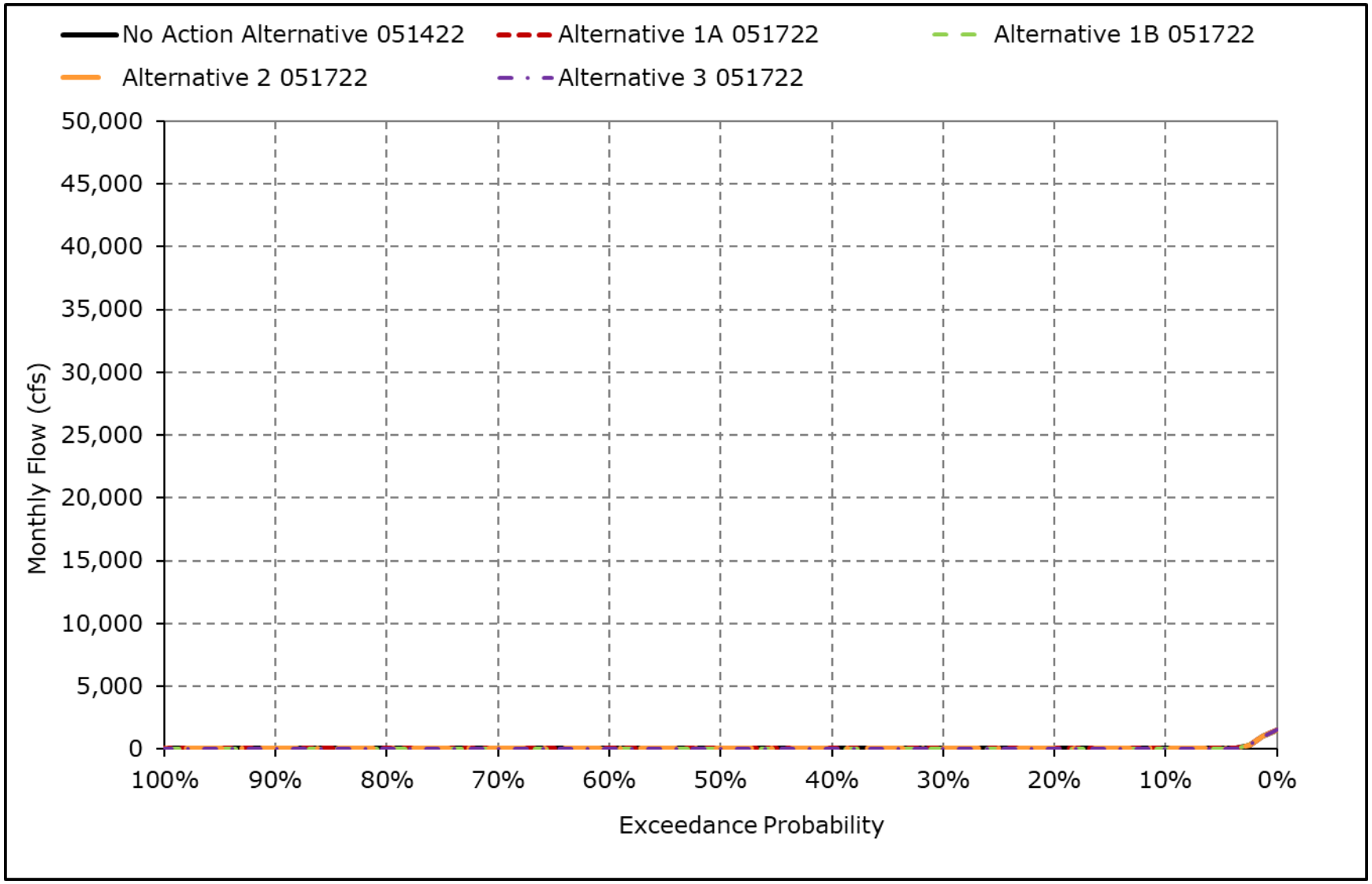
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-3-14. Yolo Bypass Flow, May



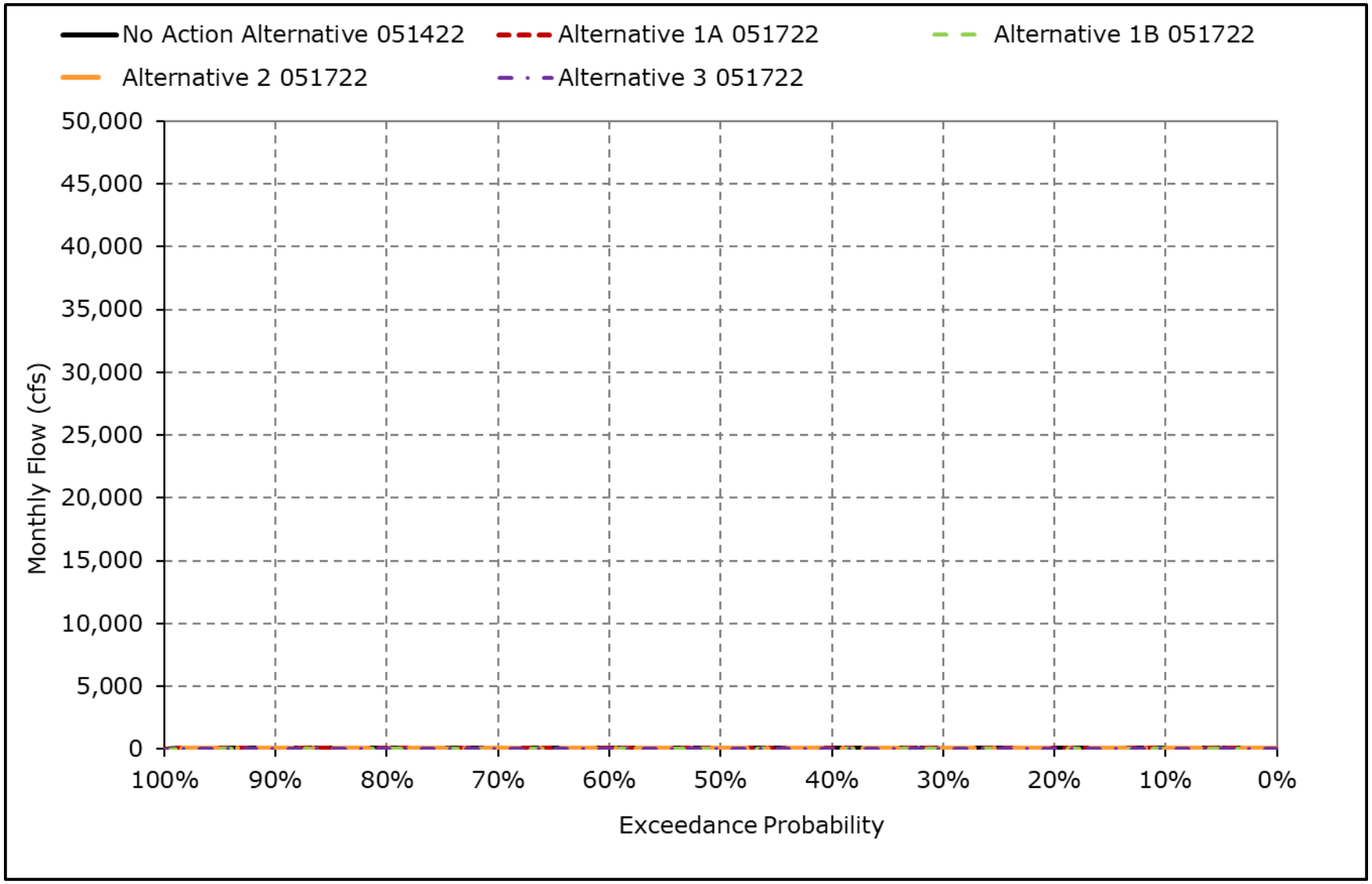
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-3-15. Yolo Bypass Flow, June



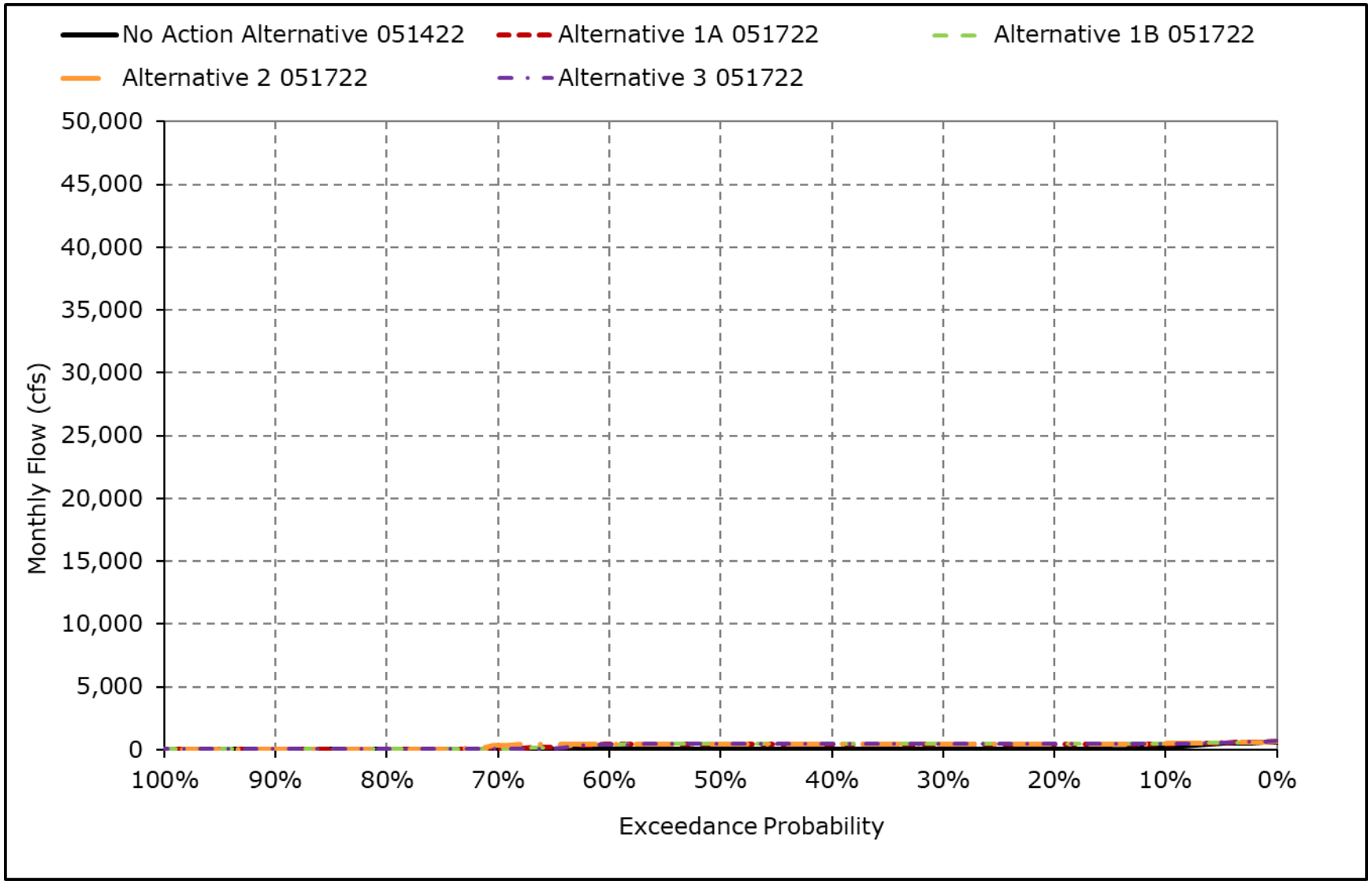
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-3-16. Yolo Bypass Flow, July



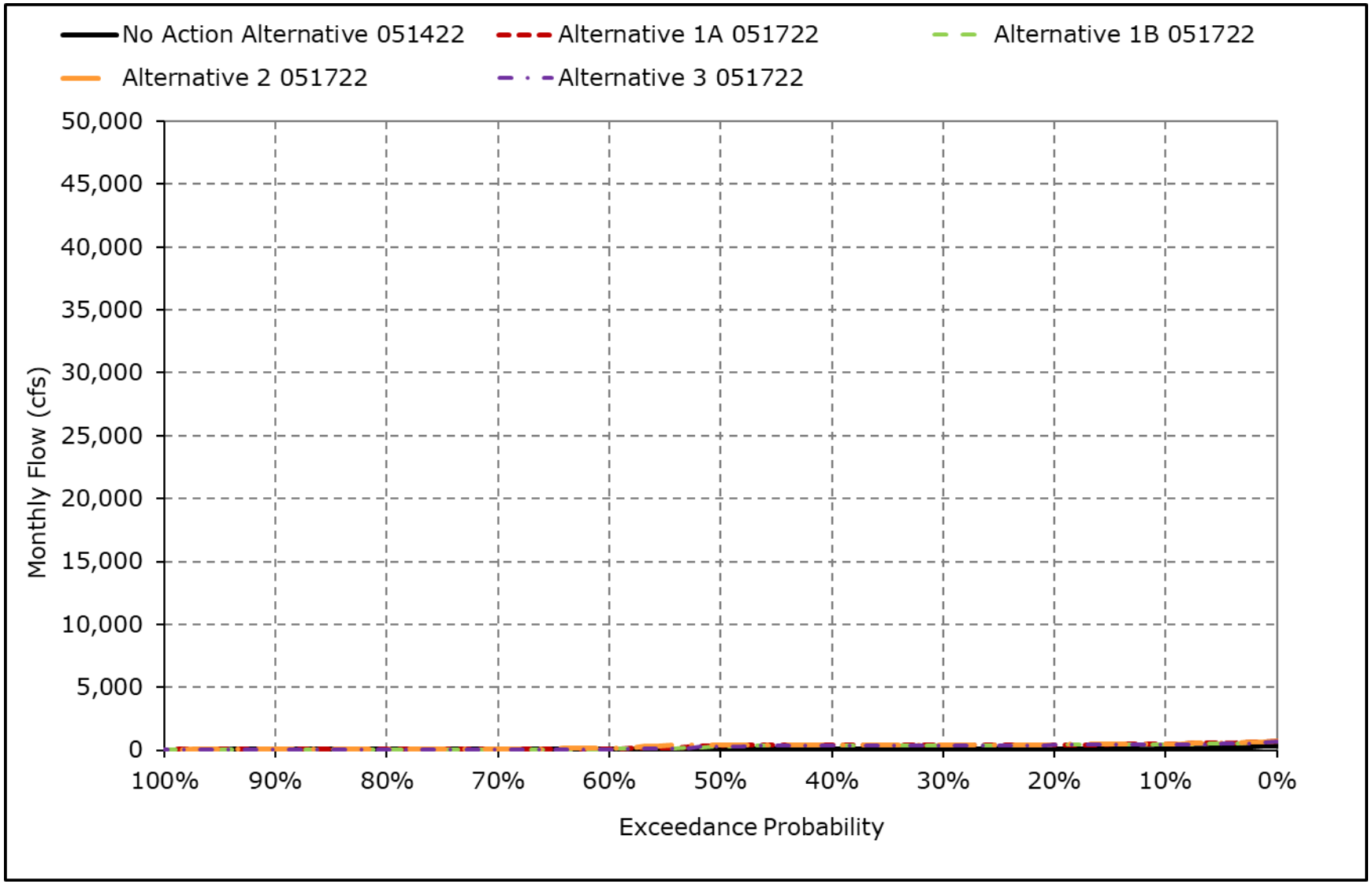
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-3-17. Yolo Bypass Flow, August



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-3-18. Yolo Bypass Flow, September



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 5B3-4-1a. Sacramento River Flow at Rio Vista, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	10,440	20,855	57,689	86,646	107,913	76,756	53,788	36,421	20,830	14,125	10,333	13,686
20% Exceedance	9,363	11,636	34,495	58,608	67,893	51,029	37,509	25,930	11,905	13,367	9,923	13,104
30% Exceedance	7,667	9,456	19,768	41,069	55,739	38,603	21,281	16,355	8,719	12,131	9,585	12,601
40% Exceedance	7,106	8,752	15,742	26,040	47,027	29,284	19,473	13,153	8,426	11,171	9,138	11,917
50% Exceedance	5,855	8,436	12,053	20,761	31,143	21,596	14,524	11,438	8,005	10,654	8,747	8,196
60% Exceedance	4,861	7,519	11,016	15,854	23,251	19,187	11,720	9,826	7,736	9,224	7,358	5,816
70% Exceedance	4,437	5,865	10,553	12,157	17,872	15,476	9,571	8,591	7,173	8,447	5,153	5,230
80% Exceedance	4,000	5,005	8,228	10,044	14,381	11,654	8,991	7,426	6,477	6,920	4,703	4,721
90% Exceedance	3,453	4,071	6,161	9,095	11,567	8,395	8,036	6,440	5,470	4,562	3,938	3,857
Full Simulation Period Average[a]	6,918	10,601	22,270	36,398	46,810	35,217	22,803	16,471	10,640	10,042	7,607	8,795
Wet Water Years (32%)	9,588	13,881	25,998	70,617	84,367	62,872	40,505	27,889	16,595	11,062	9,460	12,943
Above Normal Water Years (15%)	7,668	12,272	20,805	40,191	52,964	45,376	24,220	18,844	10,418	12,322	9,734	12,859
Below Normal Water Years (17%)	7,612	11,451	25,605	20,225	32,741	19,066	15,776	12,284	8,017	12,060	8,888	6,923
Dry Water Years (22%)	4,201	8,179	23,835	13,910	21,302	17,327	11,334	8,773	7,776	9,075	4,858	4,904
Critical Water Years (15%)	3,651	4,469	9,420	11,063	13,956	10,818	8,432	5,793	5,314	4,650	4,094	3,767

Table 5B3-4-1b. Sacramento River Flow at Rio Vista, Alternative 1A 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	10,764	19,406	55,884	83,541	105,003	74,965	50,335	36,317	20,263	14,125	10,703	14,006
20% Exceedance	9,752	11,589	32,648	55,957	67,371	50,237	36,719	25,914	11,907	13,434	10,234	13,501
30% Exceedance	7,942	9,530	18,678	39,620	54,240	36,700	21,610	16,353	8,746	12,117	9,896	13,059
40% Exceedance	7,211	8,752	15,056	24,959	45,338	29,585	19,467	13,154	8,498	11,338	9,443	12,370
50% Exceedance	6,320	8,453	12,086	20,023	29,603	21,041	14,544	11,435	8,007	10,713	8,990	8,385
60% Exceedance	5,606	7,853	11,024	15,857	22,554	18,222	11,706	9,828	7,729	9,921	8,028	6,412
70% Exceedance	5,377	6,825	10,568	12,158	17,689	15,360	9,674	8,591	7,215	8,631	6,433	5,781
80% Exceedance	5,129	5,766	8,226	10,055	14,684	11,692	9,001	7,420	6,485	7,533	5,753	5,438
90% Exceedance	4,008	4,106	6,288	9,114	11,570	8,435	8,023	6,446	5,470	5,330	5,218	4,745
Full Simulation Period Average[a]	7,356	10,652	21,718	35,627	45,818	34,605	22,552	16,422	10,642	10,279	8,173	9,284
Wet Water Years (32%)	9,853	13,666	25,565	69,492	82,854	62,490	39,872	27,673	16,602	11,067	9,792	13,345
Above Normal Water Years (15%)	8,026	12,173	20,178	38,528	51,448	43,800	24,088	18,814	10,383	12,359	10,077	13,229
Below Normal Water Years (17%)	7,884	11,570	24,578	19,671	31,923	18,579	15,558	12,291	8,035	12,065	9,106	7,211
Dry Water Years (22%)	5,139	8,575	23,164	13,705	20,645	16,681	11,364	8,836	7,777	9,705	5,922	5,611
Critical Water Years (15%)	3,984	4,642	9,413	10,848	13,914	10,575	8,429	5,856	5,330	5,272	5,050	4,467

Table 5B3-4-1c. Sacramento River Flow at Rio Vista, Alternative 1A 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	324	-1,448	-1,805	-3,105	-2,910	-1,791	-3,453	-103	-566	0	371	320
20% Exceedance	389	-47	-1,847	-2,651	-522	-792	-790	-16	2	67	311	397
30% Exceedance	275	74	-1,090	-1,449	-1,500	-1,903	329	-2	27	-13	311	458
40% Exceedance	105	0	-686	-1,082	-1,689	301	-6	1	72	167	305	453
50% Exceedance	466	17	33	-738	-1,540	-556	20	-3	2	58	243	189
60% Exceedance	745	334	8	3	-696	-965	-14	2	-7	698	670	596
70% Exceedance	940	960	15	0	-183	-116	103	0	42	184	1,280	551
80% Exceedance	1,129	761	-2	11	303	37	10	-6	8	614	1,050	718
90% Exceedance	556	35	127	19	3	40	-13	6	0	768	1,280	888
Full Simulation Period Average[a]	438	50	-553	-771	-992	-612	-251	-49	3	237	566	488
Wet Water Years (32%)	265	-214	-433	-1,125	-1,513	-382	-633	-216	6	5	332	402
Above Normal Water Years (15%)	359	-99	-627	-1,663	-1,516	-1,577	-131	-30	-36	37	343	370
Below Normal Water Years (17%)	272	119	-1,026	-554	-818	-487	-218	6	19	5	218	288
Dry Water Years (22%)	938	396	-672	-205	-657	-645	30	63	1	630	1,064	708
Critical Water Years (15%)	334	173	-7	-215	-42	-244	-3	63	16	623	956	700

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-4-2a. Sacramento River Flow at Rio Vista, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	10,440	20,855	57,689	86,646	107,913	76,756	53,788	36,421	20,830	14,125	10,333	13,686
20% Exceedance	9,363	11,636	34,495	58,608	67,893	51,029	37,509	25,930	11,905	13,367	9,923	13,104
30% Exceedance	7,667	9,456	19,768	41,069	55,739	38,603	21,281	16,355	8,719	12,131	9,585	12,601
40% Exceedance	7,106	8,752	15,742	26,040	47,027	29,284	19,473	13,153	8,426	11,171	9,138	11,917
50% Exceedance	5,855	8,436	12,053	20,761	31,143	21,596	14,524	11,438	8,005	10,654	8,747	8,196
60% Exceedance	4,861	7,519	11,016	15,854	23,251	19,187	11,720	9,826	7,736	9,224	7,358	5,816
70% Exceedance	4,437	5,865	10,553	12,157	17,872	15,476	9,571	8,591	7,173	8,447	5,153	5,230
80% Exceedance	4,000	5,005	8,228	10,044	14,381	11,654	8,991	7,426	6,477	6,920	4,703	4,721
90% Exceedance	3,453	4,071	6,161	9,095	11,567	8,395	8,036	6,440	5,470	4,562	3,938	3,857
Full Simulation Period Average[a]	6,918	10,601	22,270	36,398	46,810	35,217	22,803	16,471	10,640	10,042	7,607	8,795
Wet Water Years (32%)	9,588	13,881	25,998	70,617	84,367	62,872	40,505	27,889	16,595	11,062	9,460	12,943
Above Normal Water Years (15%)	7,668	12,272	20,805	40,191	52,964	45,376	24,220	18,844	10,418	12,322	9,734	12,859
Below Normal Water Years (17%)	7,612	11,451	25,605	20,225	32,741	19,066	15,776	12,284	8,017	12,060	8,888	6,923
Dry Water Years (22%)	4,201	8,179	23,835	13,910	21,302	17,327	11,334	8,773	7,776	9,075	4,858	4,904
Critical Water Years (15%)	3,651	4,469	9,420	11,063	13,956	10,818	8,432	5,793	5,314	4,650	4,094	3,767

Table 5B3-4-2b. Sacramento River Flow at Rio Vista, Alternative 1B 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	10,778	19,409	55,852	83,563	104,400	74,965	50,335	36,324	20,264	14,125	10,706	13,975
20% Exceedance	9,751	11,581	33,052	55,951	67,375	50,225	36,721	25,911	11,779	13,436	10,232	13,559
30% Exceedance	7,933	9,530	18,849	39,269	54,251	36,565	21,611	16,616	8,720	12,119	9,896	13,100
40% Exceedance	7,224	8,752	14,923	24,725	46,394	29,198	19,467	13,154	8,471	11,300	9,443	12,370
50% Exceedance	6,335	8,457	12,086	19,999	29,626	21,041	14,442	11,438	8,033	10,727	9,002	8,498
60% Exceedance	5,647	7,770	10,945	15,859	22,062	18,230	11,706	9,828	7,729	9,948	8,150	6,420
70% Exceedance	5,408	6,824	10,531	12,158	17,688	14,899	9,674	8,763	7,215	8,866	6,410	5,774
80% Exceedance	5,068	5,622	8,240	10,057	14,685	11,692	9,002	7,434	6,483	7,534	5,614	5,399
90% Exceedance	4,008	4,082	6,297	9,105	11,570	8,757	7,950	6,483	5,495	5,316	4,986	4,717
Full Simulation Period Average[a]	7,370	10,641	21,743	35,556	45,878	34,598	22,539	16,489	10,627	10,285	8,156	9,292
Wet Water Years (32%)	9,847	13,543	25,510	69,357	82,947	62,370	39,848	27,840	16,583	11,084	9,809	13,333
Above Normal Water Years (15%)	8,112	12,243	20,244	38,471	51,536	43,863	24,112	18,902	10,339	12,371	10,082	13,305
Below Normal Water Years (17%)	7,888	11,711	24,689	19,580	31,946	18,588	15,572	12,282	8,016	12,094	9,110	7,224
Dry Water Years (22%)	5,205	8,551	23,228	13,688	20,700	16,647	11,322	8,853	7,792	9,703	5,843	5,631
Critical Water Years (15%)	3,906	4,635	9,420	10,848	13,923	10,768	8,417	5,843	5,308	5,228	5,007	4,429

Table 5B3-4-2c. Sacramento River Flow at Rio Vista, Alternative 1B 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	339	-1,446	-1,837	-3,083	-3,513	-1,791	-3,453	-97	-566	0	374	289
20% Exceedance	388	-55	-1,443	-2,657	-518	-804	-788	-19	-126	68	309	454
30% Exceedance	265	74	-918	-1,800	-1,489	-2,038	330	262	0	-11	311	499
40% Exceedance	118	0	-818	-1,315	-633	-86	-6	1	45	129	305	453
50% Exceedance	480	21	33	-762	-1,517	-555	-82	1	27	72	255	302
60% Exceedance	786	251	-71	5	-1,189	-957	-14	2	-7	724	793	604
70% Exceedance	971	959	-22	1	-184	-577	102	172	42	420	1,257	544
80% Exceedance	1,068	617	12	13	303	38	11	8	6	614	911	678
90% Exceedance	556	11	136	10	4	362	-86	43	24	755	1,048	859
Full Simulation Period Average[a]	452	39	-527	-842	-932	-619	-264	17	-13	242	549	497
Wet Water Years (32%)	259	-338	-488	-1,260	-1,419	-502	-657	-49	-12	22	349	389
Above Normal Water Years (15%)	444	-29	-561	-1,721	-1,428	-1,514	-107	58	-79	49	347	445
Below Normal Water Years (17%)	276	260	-916	-644	-795	-478	-205	-3	-1	34	222	301
Dry Water Years (22%)	1,004	372	-608	-223	-602	-680	-12	80	16	628	985	728
Critical Water Years (15%)	255	167	0	-215	-33	-50	-15	50	-6	579	913	662

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-4-3a. Sacramento River Flow at Rio Vista, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	10,440	20,855	57,689	86,646	107,913	76,756	53,788	36,421	20,830	14,125	10,333	13,686
20% Exceedance	9,363	11,636	34,495	58,608	67,893	51,029	37,509	25,930	11,905	13,367	9,923	13,104
30% Exceedance	7,667	9,456	19,768	41,069	55,739	38,603	21,281	16,355	8,719	12,131	9,585	12,601
40% Exceedance	7,106	8,752	15,742	26,040	47,027	29,284	19,473	13,153	8,426	11,171	9,138	11,917
50% Exceedance	5,855	8,436	12,053	20,761	31,143	21,596	14,524	11,438	8,005	10,654	8,747	8,196
60% Exceedance	4,861	7,519	11,016	15,854	23,251	19,187	11,720	9,826	7,736	9,224	7,358	5,816
70% Exceedance	4,437	5,865	10,553	12,157	17,872	15,476	9,571	8,591	7,173	8,447	5,153	5,230
80% Exceedance	4,000	5,005	8,228	10,044	14,381	11,654	8,991	7,426	6,477	6,920	4,703	4,721
90% Exceedance	3,453	4,071	6,161	9,095	11,567	8,395	8,036	6,440	5,470	4,562	3,938	3,857
Full Simulation Period Average[a]	6,918	10,601	22,270	36,398	46,810	35,217	22,803	16,471	10,640	10,042	7,607	8,795
Wet Water Years (32%)	9,588	13,881	25,998	70,617	84,367	62,872	40,505	27,889	16,595	11,062	9,460	12,943
Above Normal Water Years (15%)	7,668	12,272	20,805	40,191	52,964	45,376	24,220	18,844	10,418	12,322	9,734	12,859
Below Normal Water Years (17%)	7,612	11,451	25,605	20,225	32,741	19,066	15,776	12,284	8,017	12,060	8,888	6,923
Dry Water Years (22%)	4,201	8,179	23,835	13,910	21,302	17,327	11,334	8,773	7,776	9,075	4,858	4,904
Critical Water Years (15%)	3,651	4,469	9,420	11,063	13,956	10,818	8,432	5,793	5,314	4,650	4,094	3,767

Table 5B3-4-3b. Sacramento River Flow at Rio Vista, Alternative 2 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	10,764	19,406	55,888	83,904	105,002	74,965	50,334	36,323	20,264	14,125	10,755	14,141
20% Exceedance	9,752	11,582	33,231	55,962	67,371	50,409	36,713	25,915	11,907	13,435	10,234	13,503
30% Exceedance	7,899	9,530	18,678	39,619	54,269	36,701	21,610	16,353	8,746	12,117	9,896	13,085
40% Exceedance	7,190	8,752	15,056	24,733	44,920	29,586	19,467	13,154	8,498	11,338	9,443	12,370
50% Exceedance	6,350	8,453	12,086	20,043	29,603	21,041	14,544	11,435	8,007	10,741	8,990	8,385
60% Exceedance	5,595	7,853	11,024	15,857	22,554	18,222	11,706	9,828	7,729	9,884	8,045	6,420
70% Exceedance	5,360	6,825	10,568	12,158	17,689	15,360	9,674	8,591	7,215	8,632	6,272	5,799
80% Exceedance	5,161	5,658	8,221	10,055	14,684	11,692	9,001	7,420	6,485	7,533	5,749	5,608
90% Exceedance	4,005	4,133	6,286	9,114	11,570	8,435	8,023	6,446	5,470	5,328	5,099	4,551
Full Simulation Period Average[a]	7,349	10,643	21,725	35,633	45,866	34,653	22,548	16,423	10,643	10,280	8,184	9,273
Wet Water Years (32%)	9,861	13,668	25,550	69,518	83,053	62,616	39,871	27,676	16,602	11,067	9,792	13,366
Above Normal Water Years (15%)	8,085	12,174	20,238	38,535	51,405	43,852	24,068	18,814	10,383	12,359	10,110	13,261
Below Normal Water Years (17%)	7,874	11,569	24,577	19,650	31,865	18,584	15,556	12,291	8,032	12,093	9,163	7,189
Dry Water Years (22%)	5,097	8,533	23,175	13,705	20,644	16,682	11,364	8,836	7,778	9,704	5,907	5,575
Critical Water Years (15%)	3,934	4,642	9,425	10,853	13,919	10,574	8,429	5,855	5,332	5,248	5,044	4,400

Table 5B3-4-3c. Sacramento River Flow at Rio Vista, Alternative 2 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	324	-1,449	-1,801	-2,743	-2,911	-1,791	-3,453	-97	-566	0	423	455
20% Exceedance	389	-54	-1,264	-2,646	-522	-620	-796	-15	2	67	311	398
30% Exceedance	232	74	-1,090	-1,449	-1,470	-1,902	329	-2	27	-13	311	484
40% Exceedance	84	0	-686	-1,307	-2,108	303	-6	0	72	167	305	453
50% Exceedance	495	17	33	-717	-1,540	-556	20	-3	2	86	243	189
60% Exceedance	734	334	8	3	-696	-965	-14	2	-7	661	687	604
70% Exceedance	923	960	15	0	-183	-116	103	0	42	186	1,119	569
80% Exceedance	1,161	653	-7	11	302	38	10	-6	8	614	1,046	887
90% Exceedance	552	62	125	19	3	40	-13	6	0	766	1,161	693
Full Simulation Period Average[a]	430	42	-545	-765	-944	-564	-255	-48	3	238	577	478
Wet Water Years (32%)	272	-212	-448	-1,099	-1,313	-256	-634	-213	7	5	332	422
Above Normal Water Years (15%)	418	-98	-567	-1,656	-1,559	-1,525	-152	-30	-36	37	375	402
Below Normal Water Years (17%)	261	118	-1,028	-574	-876	-483	-220	6	16	32	275	265
Dry Water Years (22%)	896	354	-660	-205	-658	-645	30	63	2	629	1,049	671
Critical Water Years (15%)	284	173	4	-210	-36	-244	-3	62	18	598	950	633

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-4-4a. Sacramento River Flow at Rio Vista, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	10,440	20,855	57,689	86,646	107,913	76,756	53,788	36,421	20,830	14,125	10,333	13,686
20% Exceedance	9,363	11,636	34,495	58,608	67,893	51,029	37,509	25,930	11,905	13,367	9,923	13,104
30% Exceedance	7,667	9,456	19,768	41,069	55,739	38,603	21,281	16,355	8,719	12,131	9,585	12,601
40% Exceedance	7,106	8,752	15,742	26,040	47,027	29,284	19,473	13,153	8,426	11,171	9,138	11,917
50% Exceedance	5,855	8,436	12,053	20,761	31,143	21,596	14,524	11,438	8,005	10,654	8,747	8,196
60% Exceedance	4,861	7,519	11,016	15,854	23,251	19,187	11,720	9,826	7,736	9,224	7,358	5,816
70% Exceedance	4,437	5,865	10,553	12,157	17,872	15,476	9,571	8,591	7,173	8,447	5,153	5,230
80% Exceedance	4,000	5,005	8,228	10,044	14,381	11,654	8,991	7,426	6,477	6,920	4,703	4,721
90% Exceedance	3,453	4,071	6,161	9,095	11,567	8,395	8,036	6,440	5,470	4,562	3,938	3,857
Full Simulation Period Average[a]	6,918	10,601	22,270	36,398	46,810	35,217	22,803	16,471	10,640	10,042	7,607	8,795
Wet Water Years (32%)	9,588	13,881	25,998	70,617	84,367	62,872	40,505	27,889	16,595	11,062	9,460	12,943
Above Normal Water Years (15%)	7,668	12,272	20,805	40,191	52,964	45,376	24,220	18,844	10,418	12,322	9,734	12,859
Below Normal Water Years (17%)	7,612	11,451	25,605	20,225	32,741	19,066	15,776	12,284	8,017	12,060	8,888	6,923
Dry Water Years (22%)	4,201	8,179	23,835	13,910	21,302	17,327	11,334	8,773	7,776	9,075	4,858	4,904
Critical Water Years (15%)	3,651	4,469	9,420	11,063	13,956	10,818	8,432	5,793	5,314	4,650	4,094	3,767

Table 5B3-4-4b. Sacramento River Flow at Rio Vista, Alternative 3 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	10,892	19,448	55,767	83,395	104,686	74,234	50,336	36,352	20,266	14,272	10,734	14,124
20% Exceedance	10,158	12,272	33,478	56,680	67,488	50,180	36,726	25,891	11,779	13,474	10,251	13,544
30% Exceedance	8,399	9,652	18,898	38,837	54,562	36,862	21,609	16,355	8,707	12,050	9,896	13,027
40% Exceedance	7,246	8,794	15,056	24,737	46,074	29,197	19,466	13,154	8,410	11,299	9,414	12,241
50% Exceedance	6,570	8,464	12,076	20,141	29,606	21,042	14,487	11,442	8,007	10,709	8,983	8,442
60% Exceedance	5,659	7,948	11,024	15,856	22,064	18,191	11,497	9,894	7,728	9,857	7,892	6,333
70% Exceedance	5,318	6,799	10,533	12,118	17,686	15,555	9,674	8,775	7,173	8,668	6,296	5,715
80% Exceedance	4,768	5,705	8,448	10,059	14,650	11,666	9,003	7,436	6,483	7,534	5,559	5,241
90% Exceedance	3,946	4,078	6,235	9,105	11,571	8,743	7,806	6,483	5,584	5,270	4,681	4,394
Full Simulation Period Average[a]	7,451	10,871	21,895	35,584	45,808	34,508	22,485	16,506	10,612	10,300	8,103	9,203
Wet Water Years (32%)	9,788	13,607	25,592	69,411	82,583	62,144	39,712	27,802	16,583	11,086	9,810	13,308
Above Normal Water Years (15%)	8,356	12,781	20,134	38,546	51,714	43,797	23,991	19,082	10,295	12,412	10,091	13,286
Below Normal Water Years (17%)	8,537	12,401	24,814	19,545	32,095	18,360	15,545	12,304	7,975	12,100	9,073	7,197
Dry Water Years (22%)	4,987	8,617	23,698	13,690	20,692	16,765	11,371	8,851	7,804	9,769	5,757	5,534
Critical Water Years (15%)	3,912	4,633	9,532	10,883	13,892	10,793	8,422	5,840	5,281	5,178	4,802	4,071

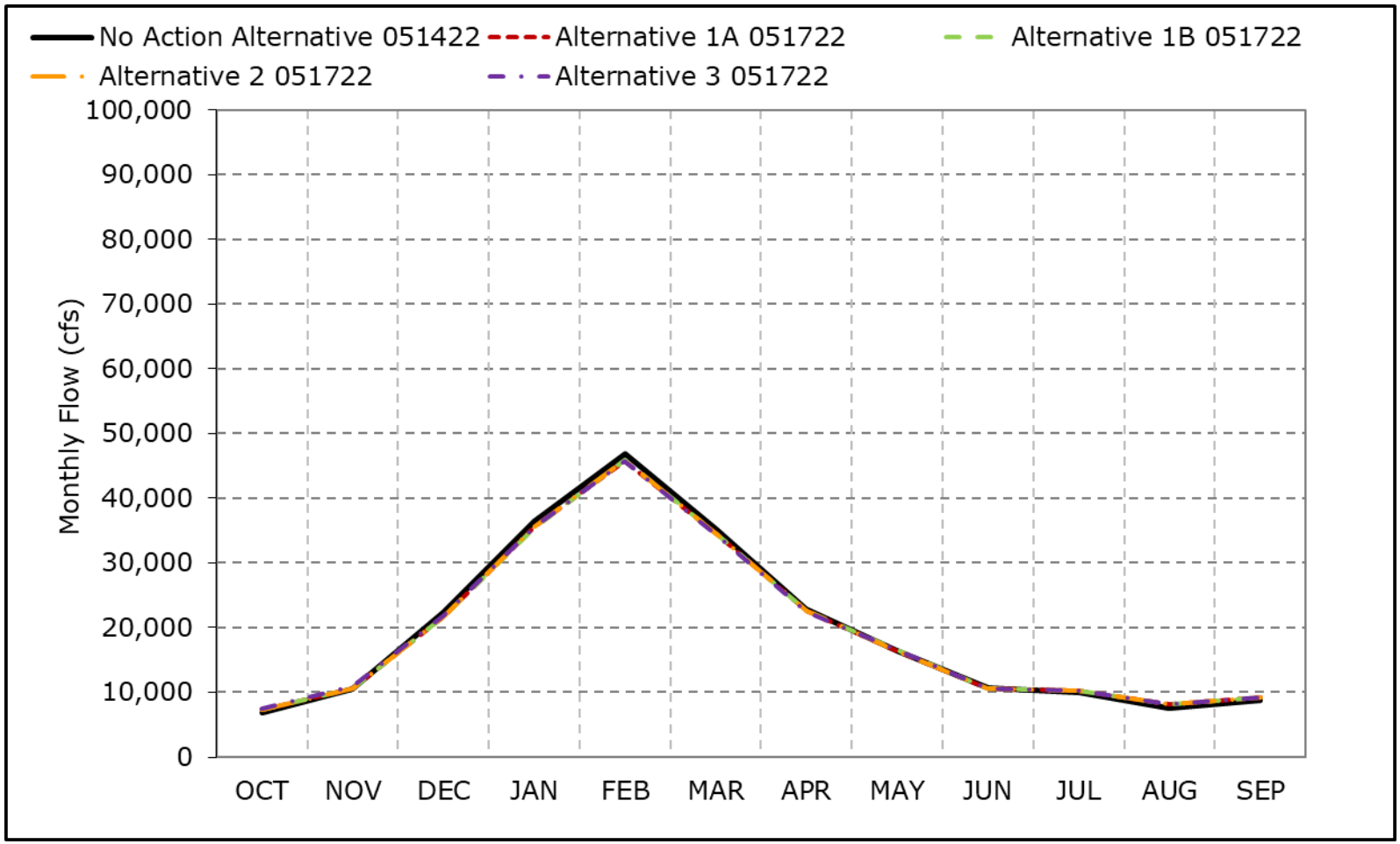
Table 5B3-4-4c. Sacramento River Flow at Rio Vista, Alternative 3 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	453	-1,406	-1,923	-3,251	-3,227	-2,522	-3,452	-68	-564	147	402	438
20% Exceedance	796	636	-1,017	-1,929	-405	-849	-783	-39	-126	107	328	440
30% Exceedance	731	196	-870	-2,232	-1,177	-1,741	328	0	-12	-81	311	425
40% Exceedance	140	41	-686	-1,303	-954	-87	-7	1	-16	128	277	324
50% Exceedance	716	28	23	-619	-1,537	-554	-37	4	2	55	236	246
60% Exceedance	798	429	8	2	-1,187	-996	-223	67	-8	633	534	517
70% Exceedance	881	934	-20	-39	-185	79	102	184	0	222	1,143	485
80% Exceedance	768	700	221	15	269	12	12	10	6	615	856	520
90% Exceedance	493	7	74	10	4	348	-230	43	113	708	742	537
Full Simulation Period Average[a]	533	270	-375	-814	-1,002	-709	-318	35	-28	257	496	408
Wet Water Years (32%)	199	-274	-406	-1,206	-1,783	-728	-793	-87	-12	24	350	365
Above Normal Water Years (15%)	688	509	-671	-1,646	-1,250	-1,579	-228	238	-124	90	357	427
Below Normal Water Years (17%)	925	950	-791	-680	-646	-706	-231	20	-42	39	185	274
Dry Water Years (22%)	786	438	-137	-221	-610	-561	37	78	29	695	899	630
Critical Water Years (15%)	261	165	112	-180	-64	-26	-10	47	-33	529	708	304

[a] Based on the 82-year simulation period.

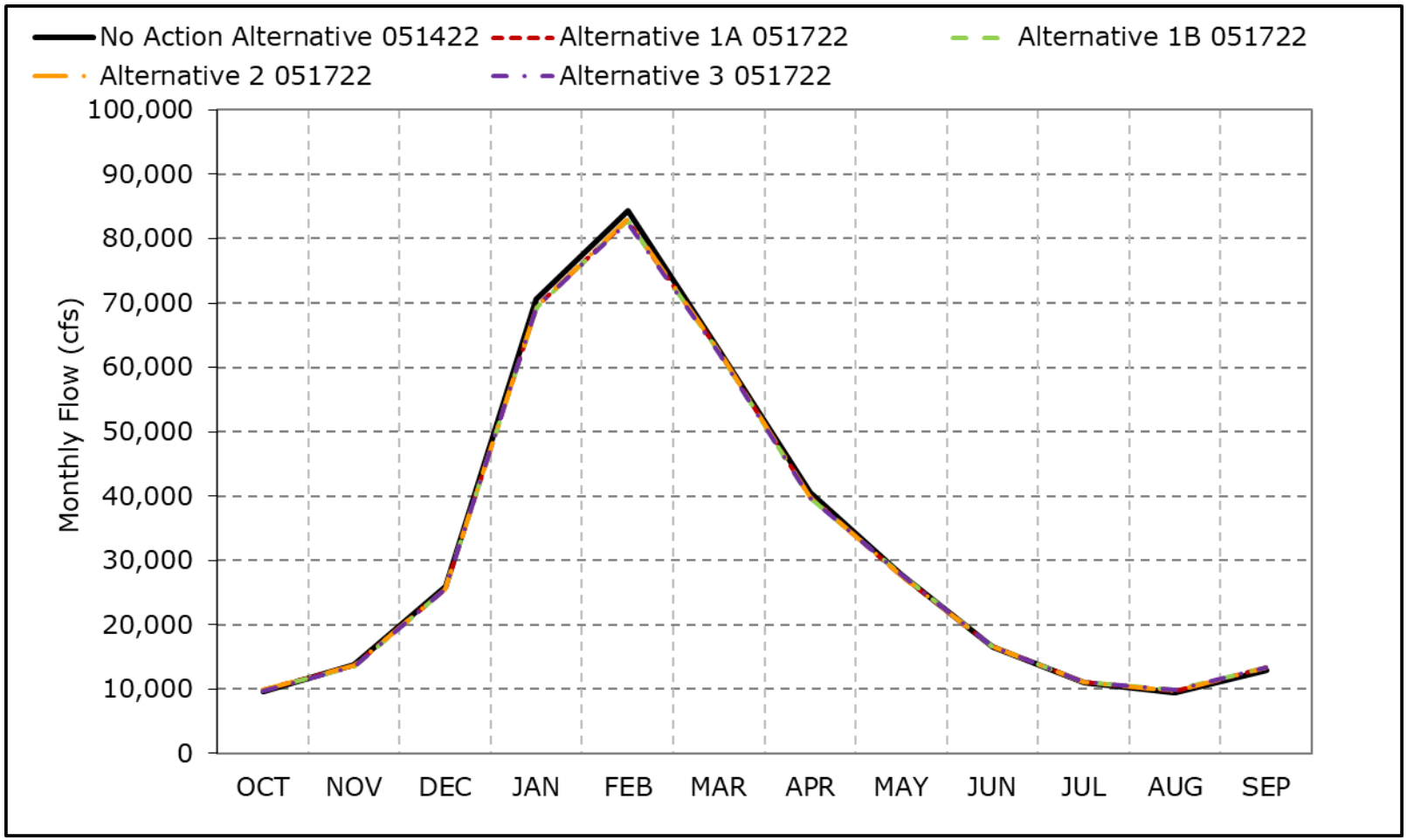
* All scenarios are simulated at current climate condition and 0 cm sea level rise.
* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* Water Year Types results are displayed with calendar year - year type sorting.

Figure 5B3-4-1. Sacramento River Flow at Rio Vista, Long-Term Average Flow



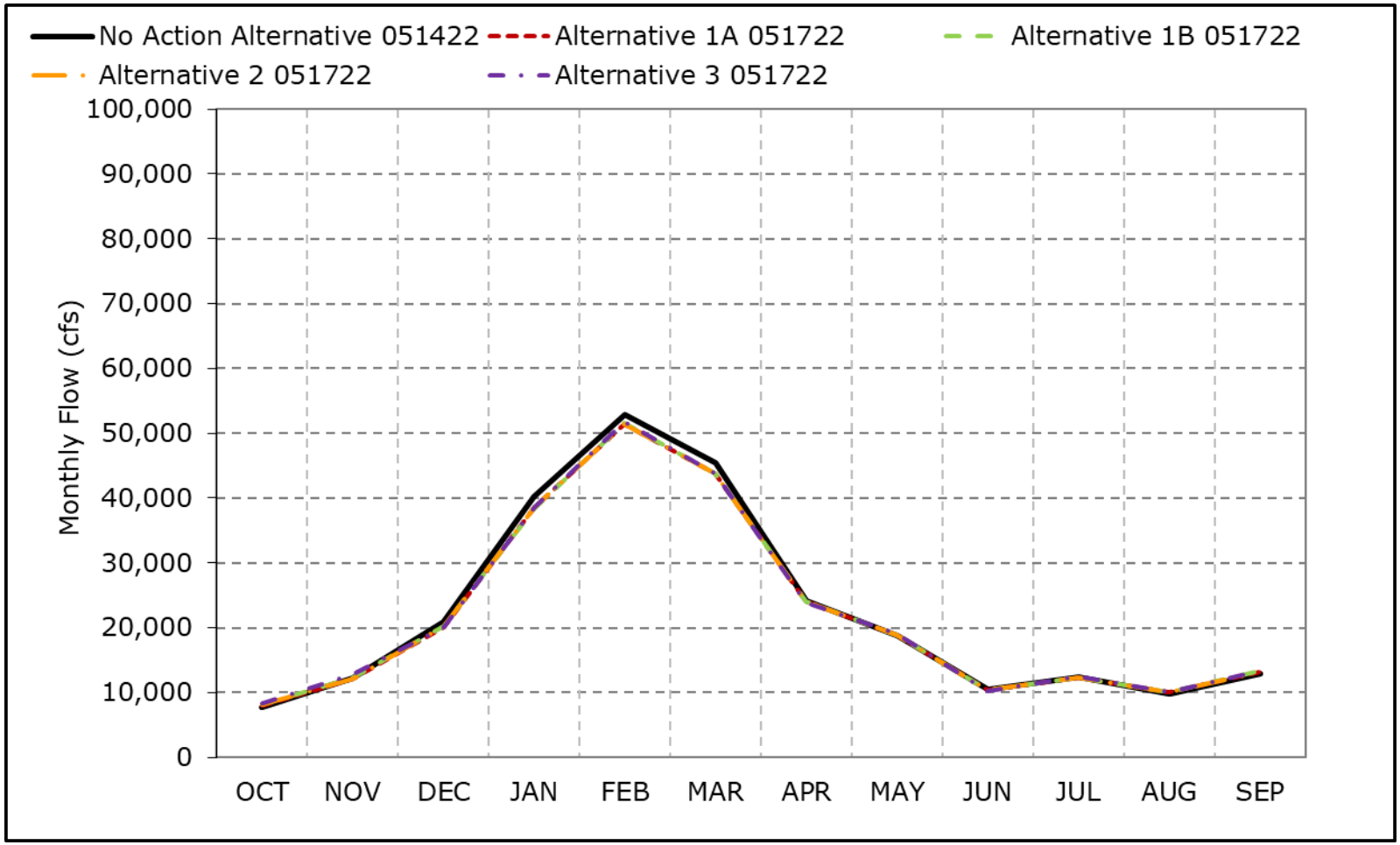
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-4-2. Sacramento River Flow at Rio Vista, Wet Year Average Flow



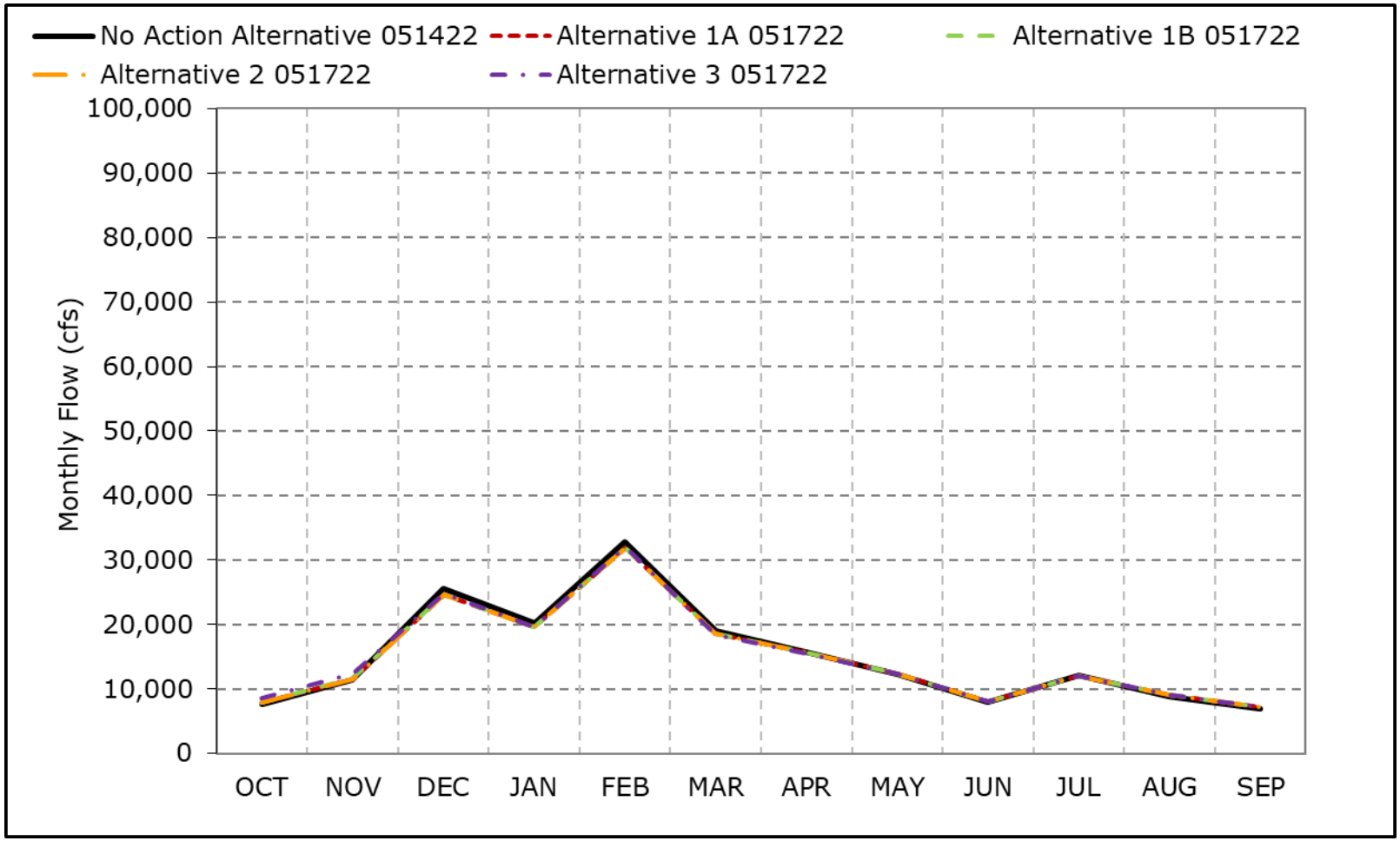
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-4-3. Sacramento River Flow at Rio Vista, Above Normal Year Average Flow



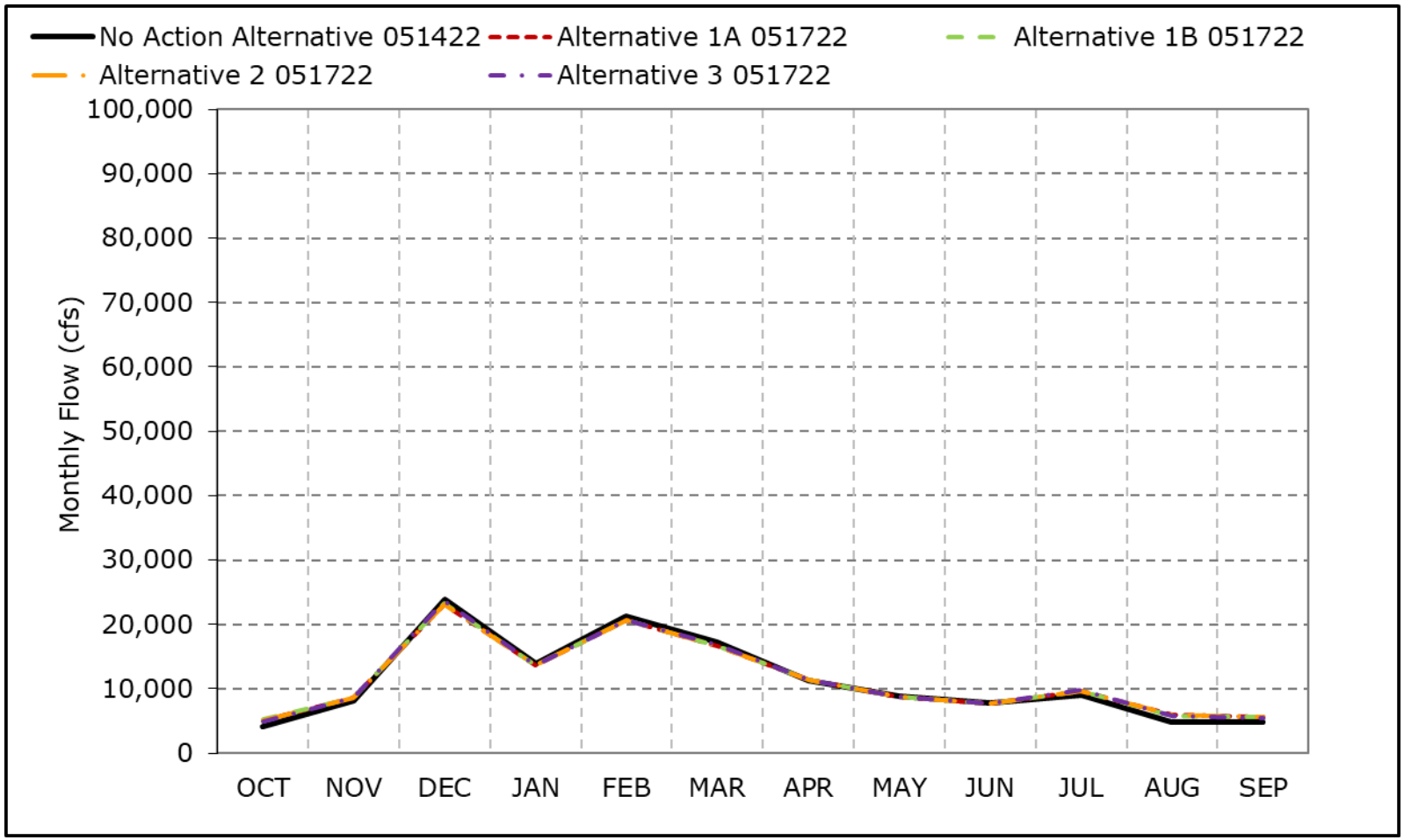
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-4-4. Sacramento River Flow at Rio Vista, Below Normal Year Average Flow



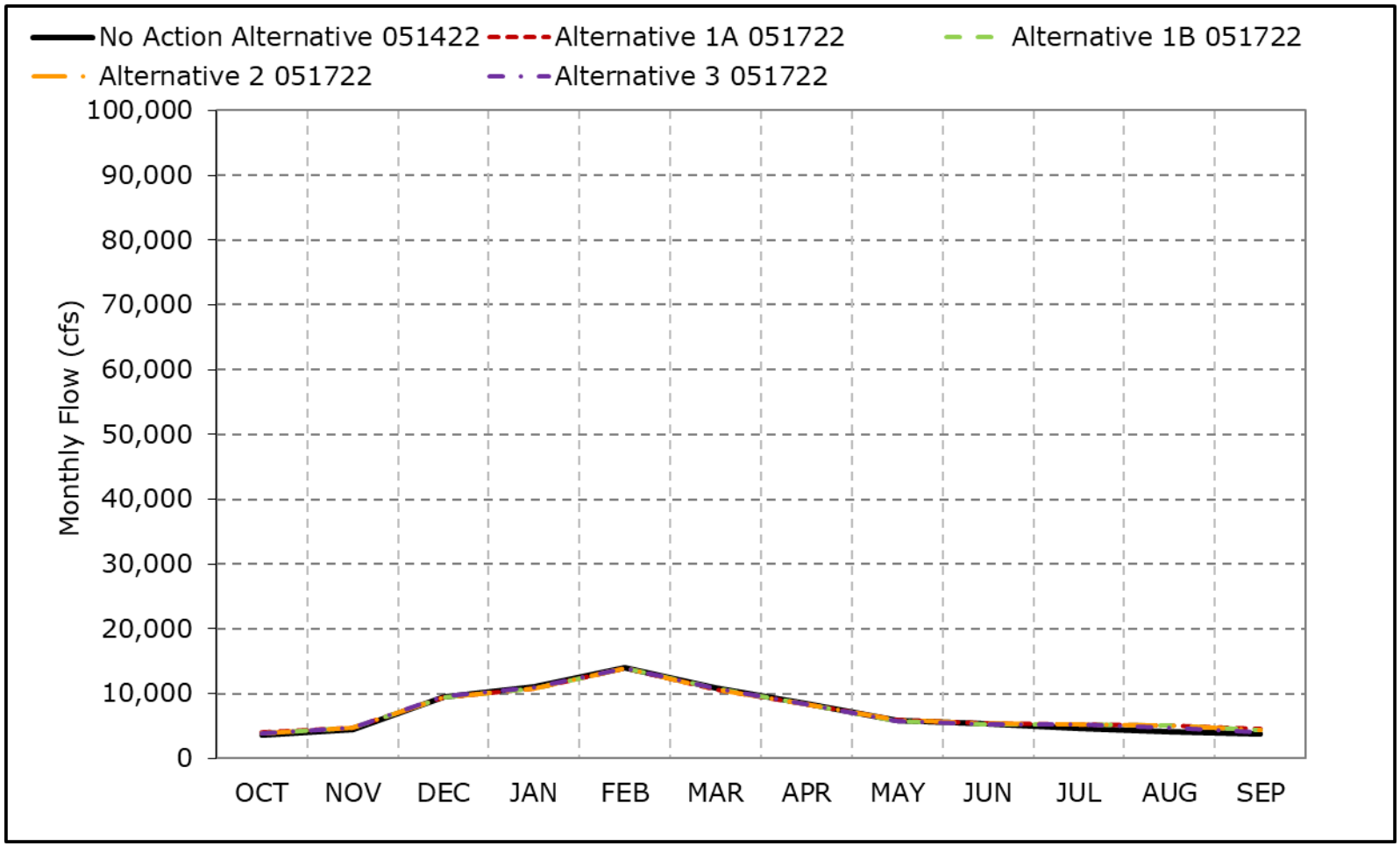
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-4-5. Sacramento River Flow at Rio Vista, Dry Year Average Flow



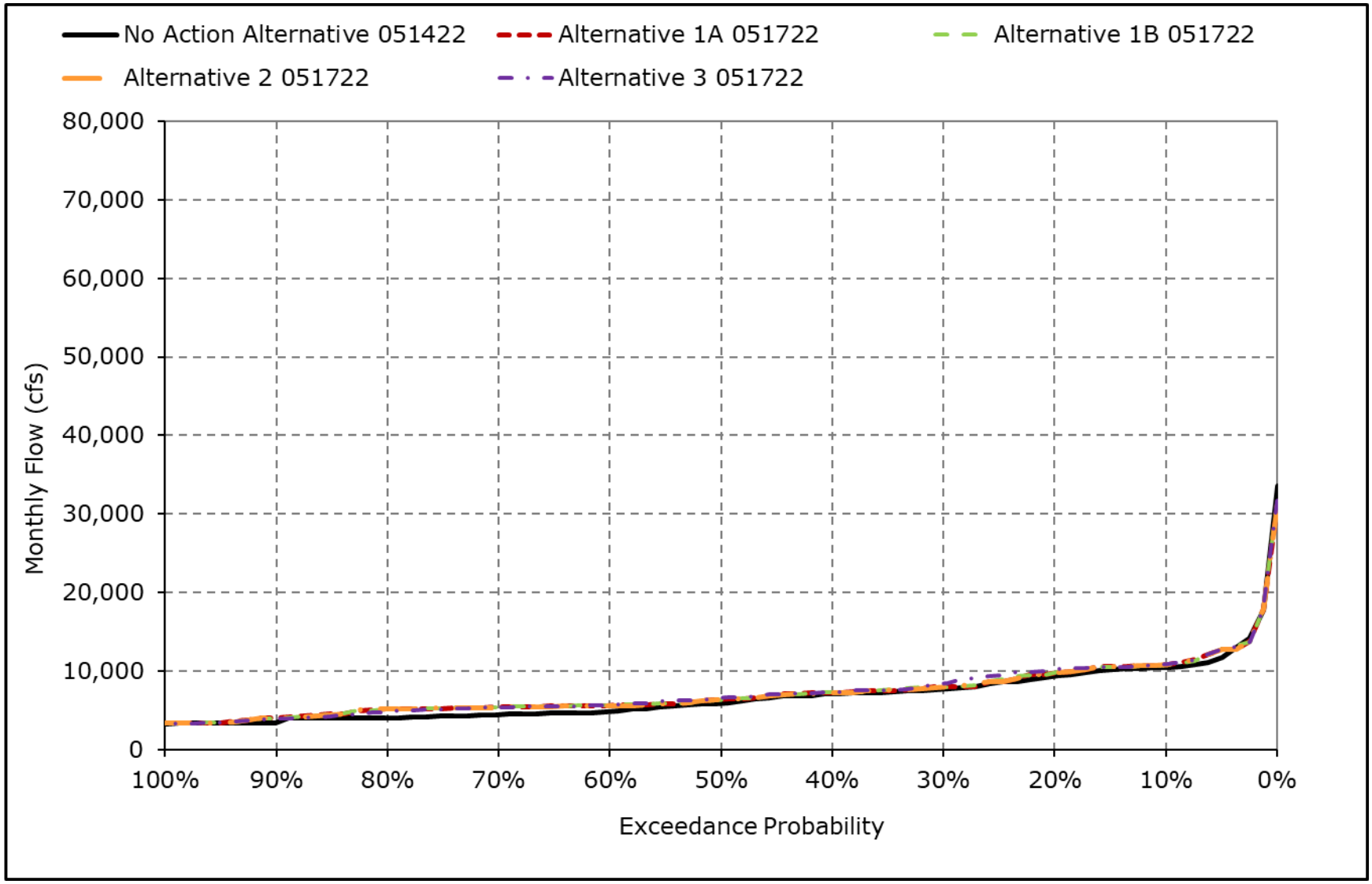
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-4-6. Sacramento River Flow at Rio Vista, Critical Year Average Flow



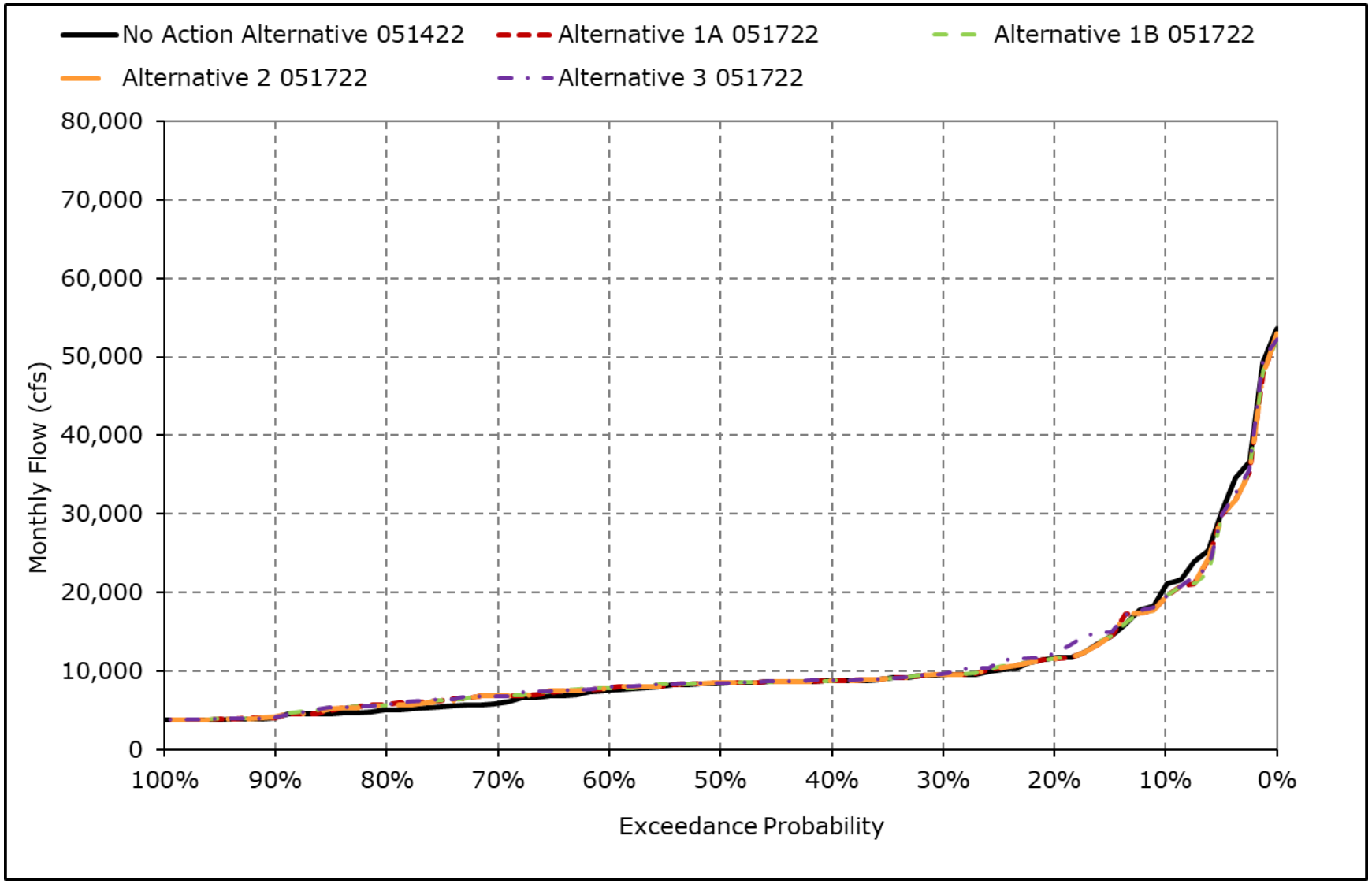
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-4-7. Sacramento River Flow at Rio Vista, October



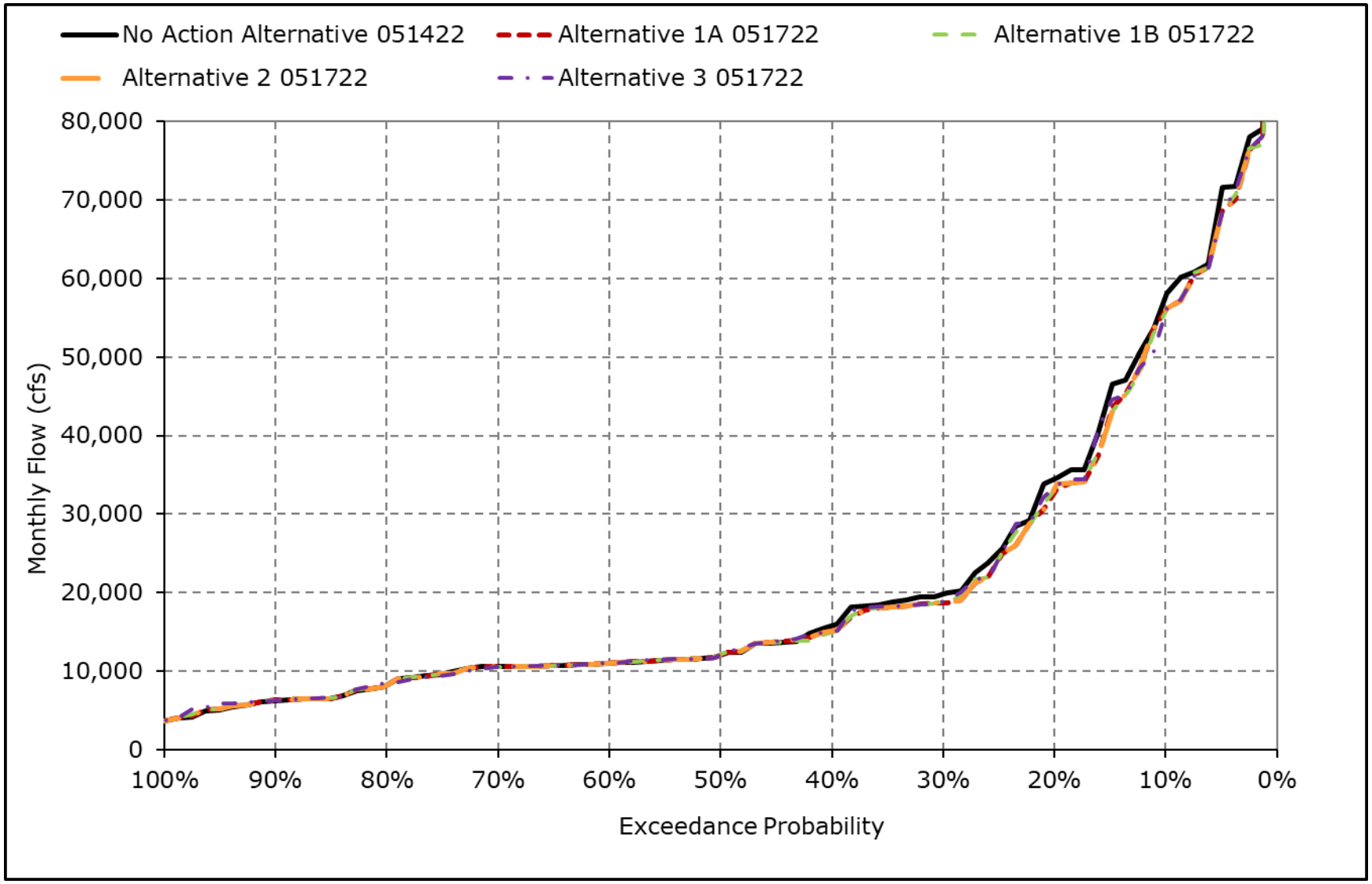
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-4-8. Sacramento River Flow at Rio Vista, November



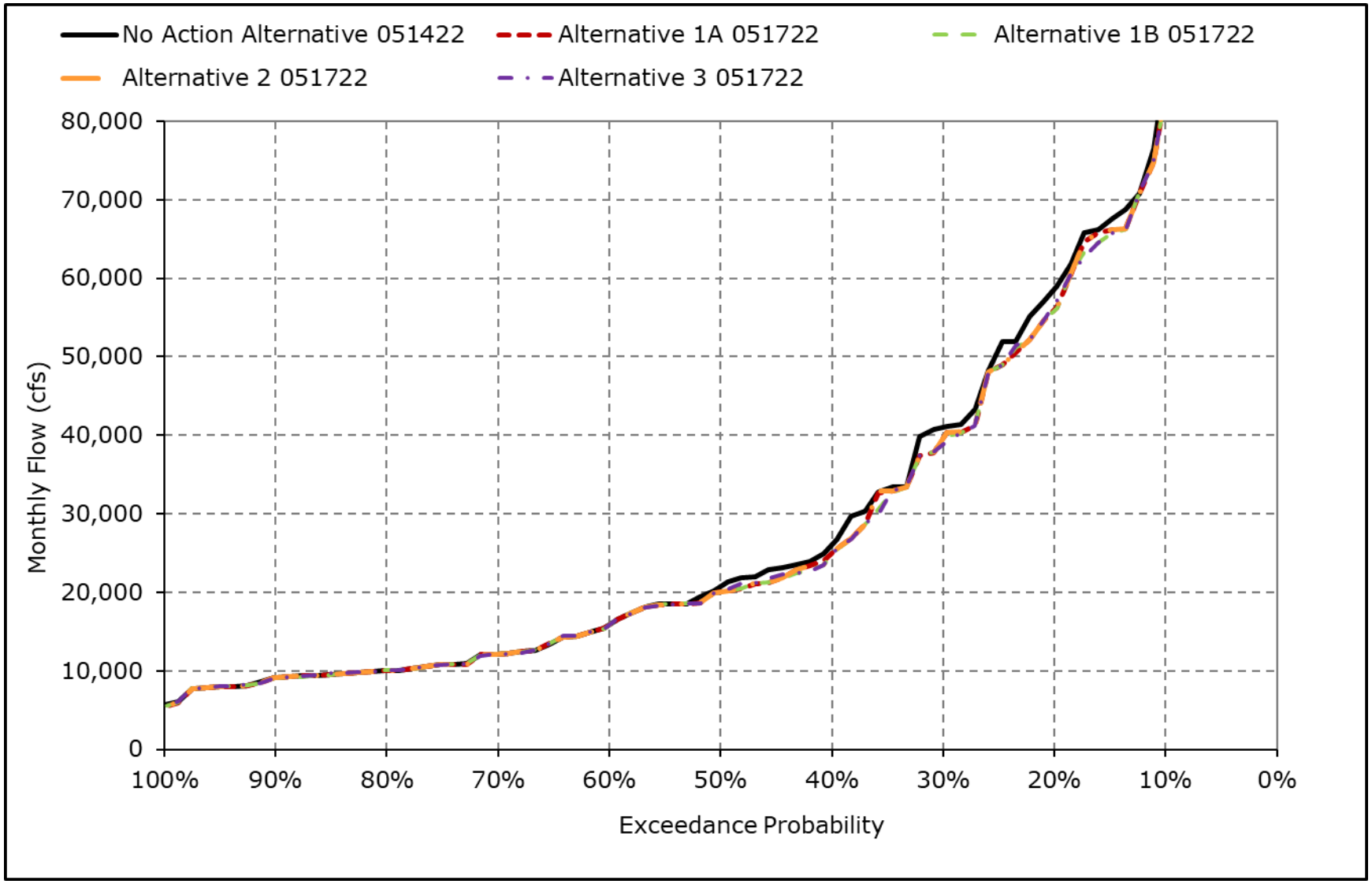
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-4-9. Sacramento River Flow at Rio Vista, December



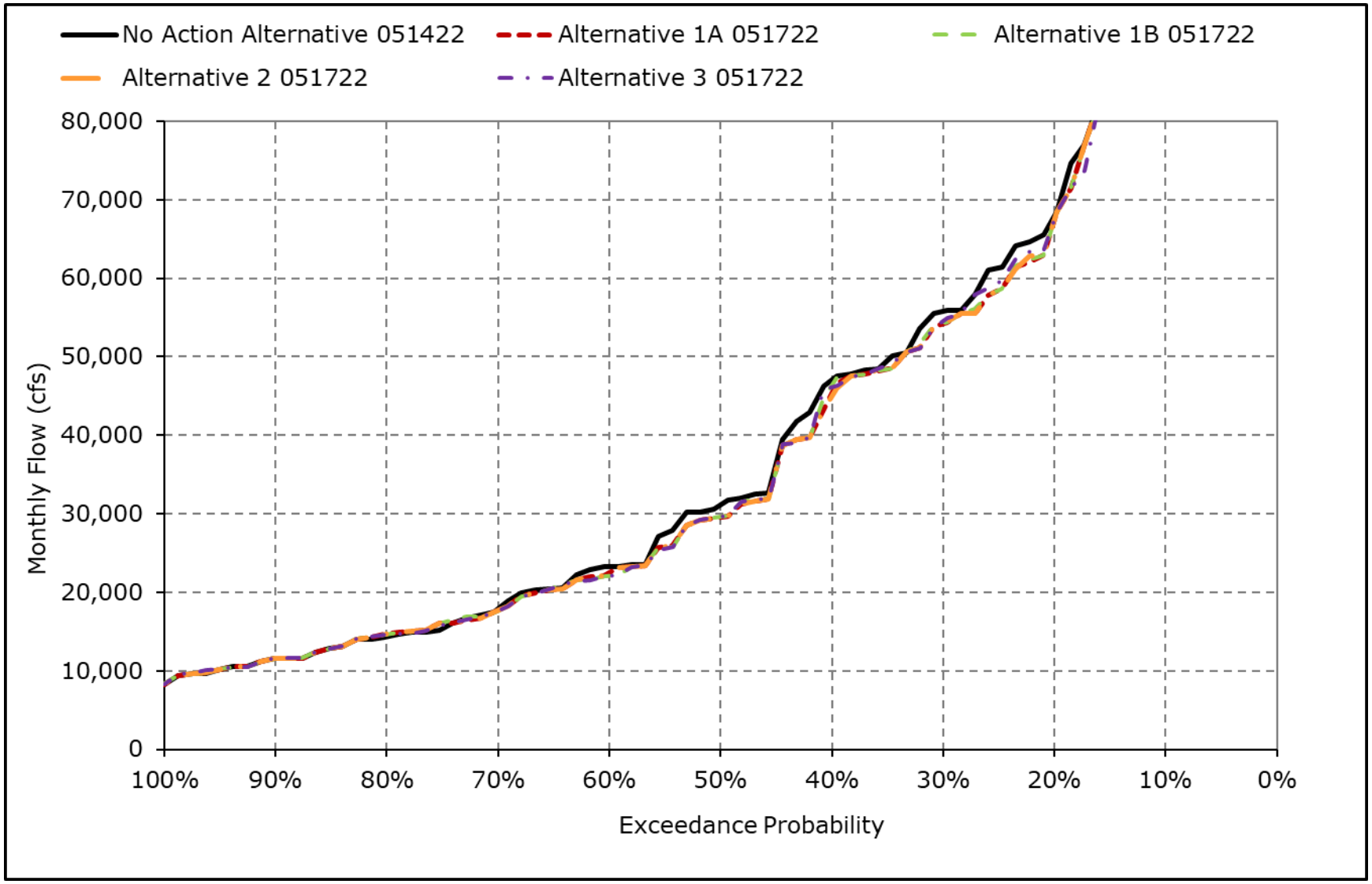
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-4-10. Sacramento River Flow at Rio Vista, January



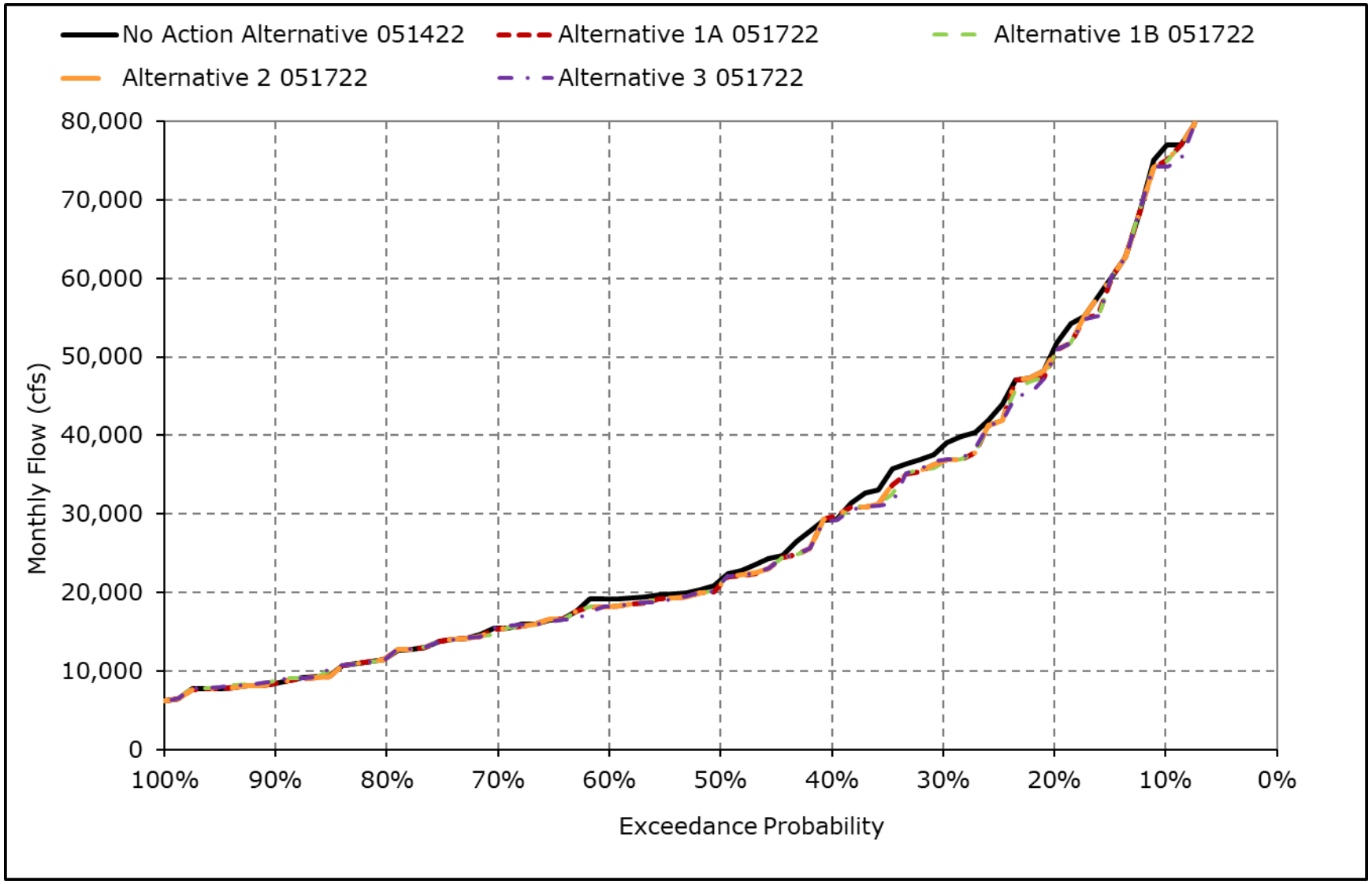
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-4-11. Sacramento River Flow at Rio Vista, February



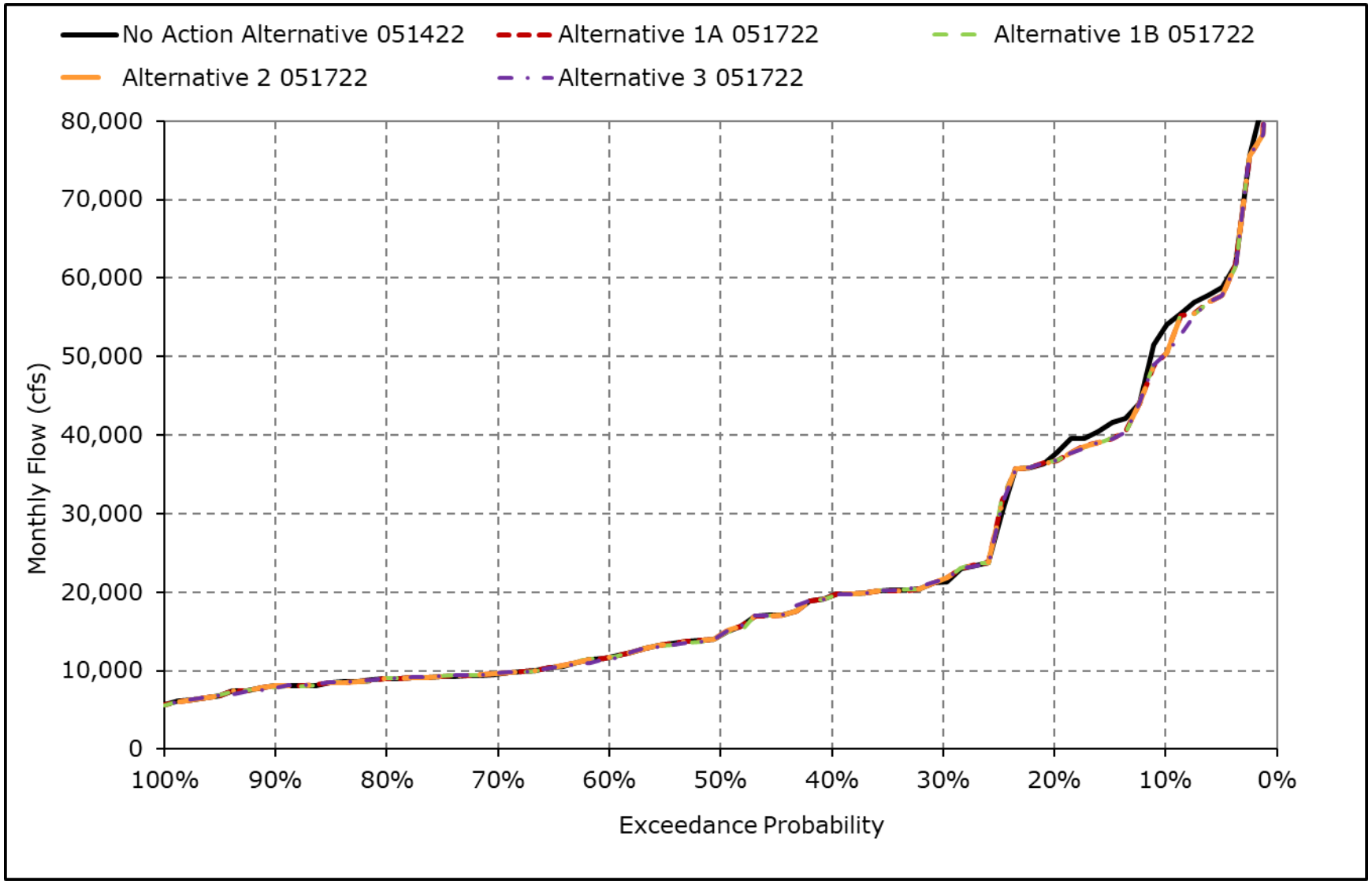
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-4-12. Sacramento River Flow at Rio Vista, March



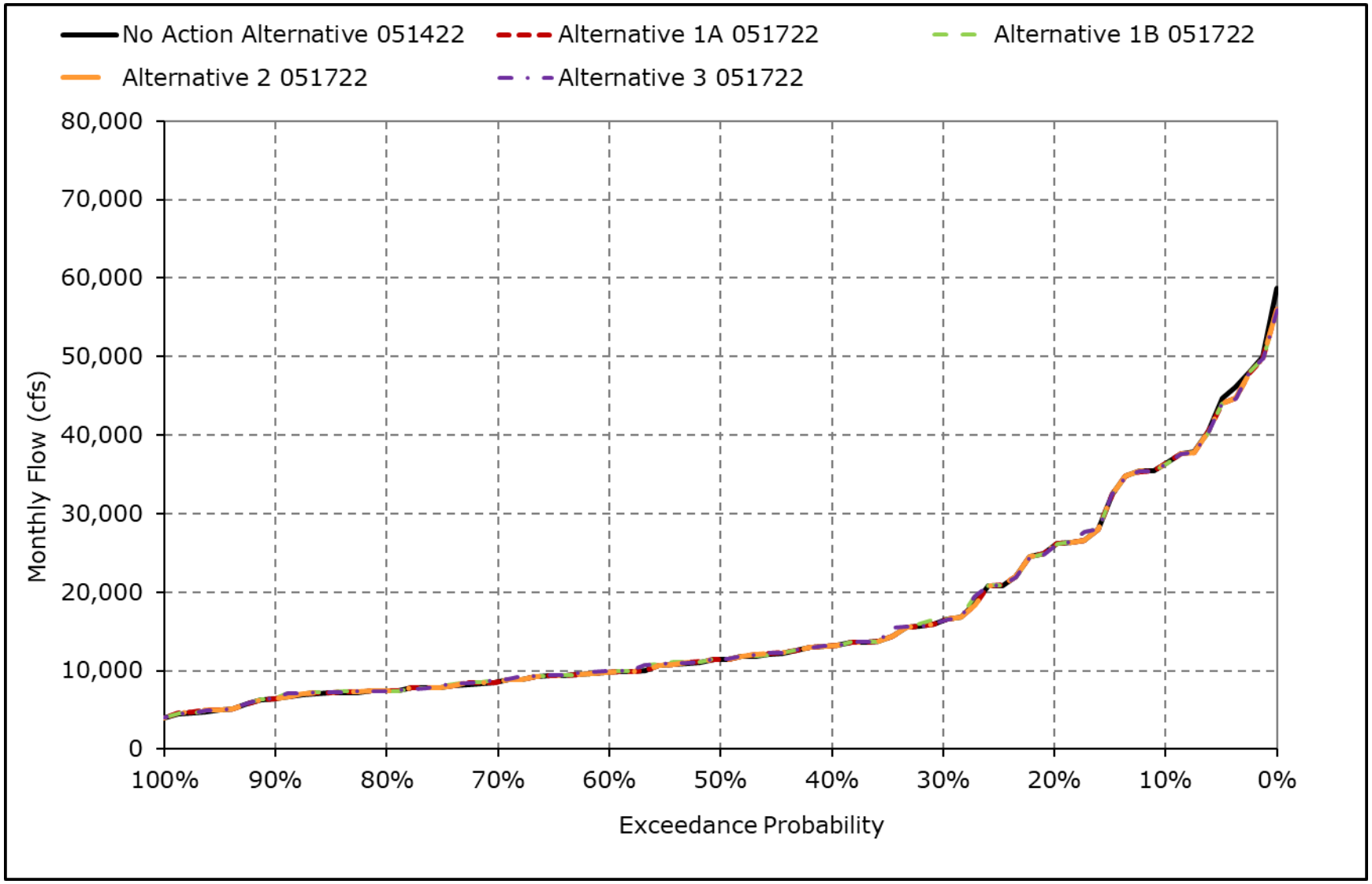
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-4-13. Sacramento River Flow at Rio Vista, April



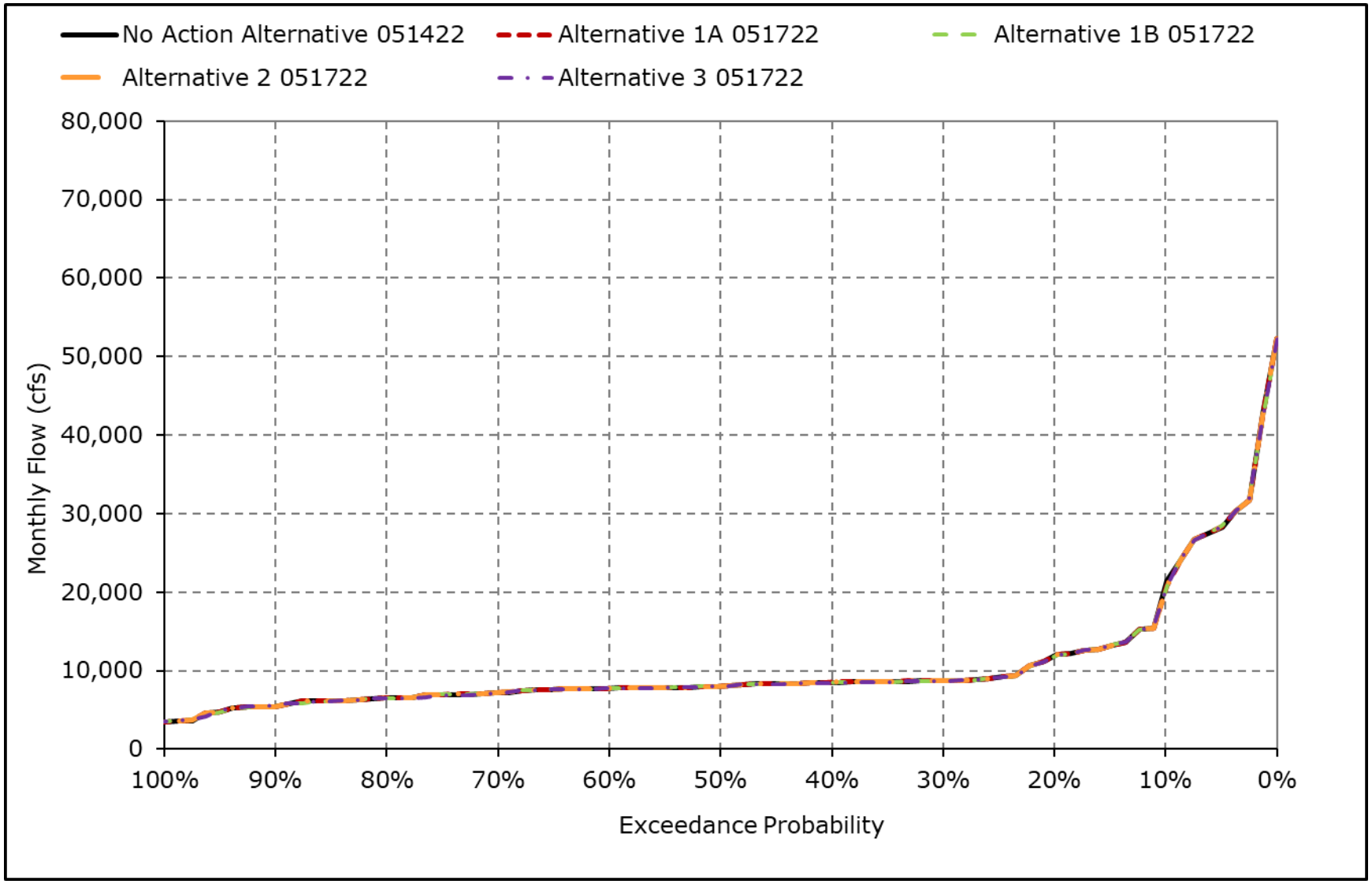
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-4-14. Sacramento River Flow at Rio Vista, May



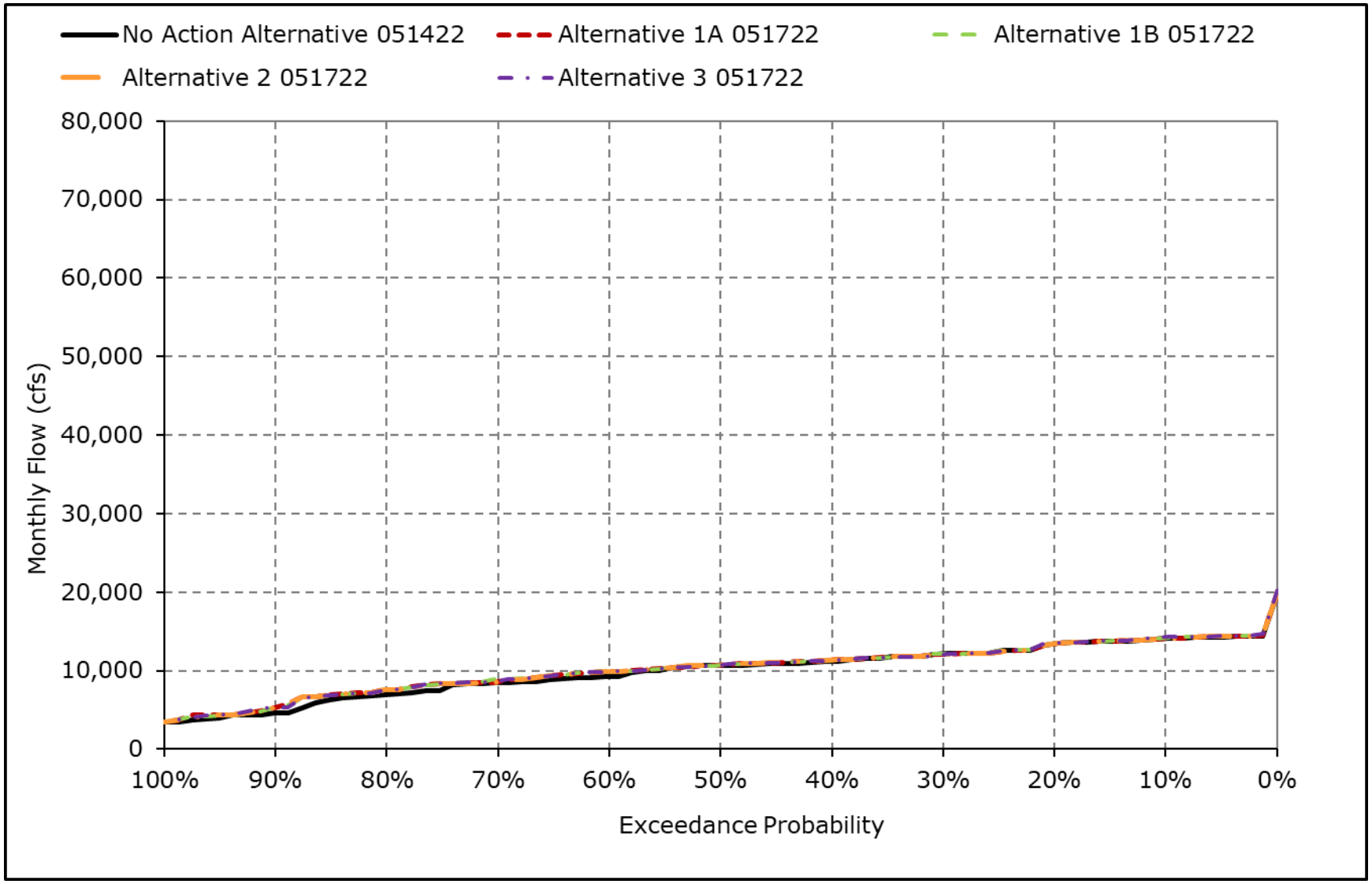
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-4-15. Sacramento River Flow at Rio Vista, June



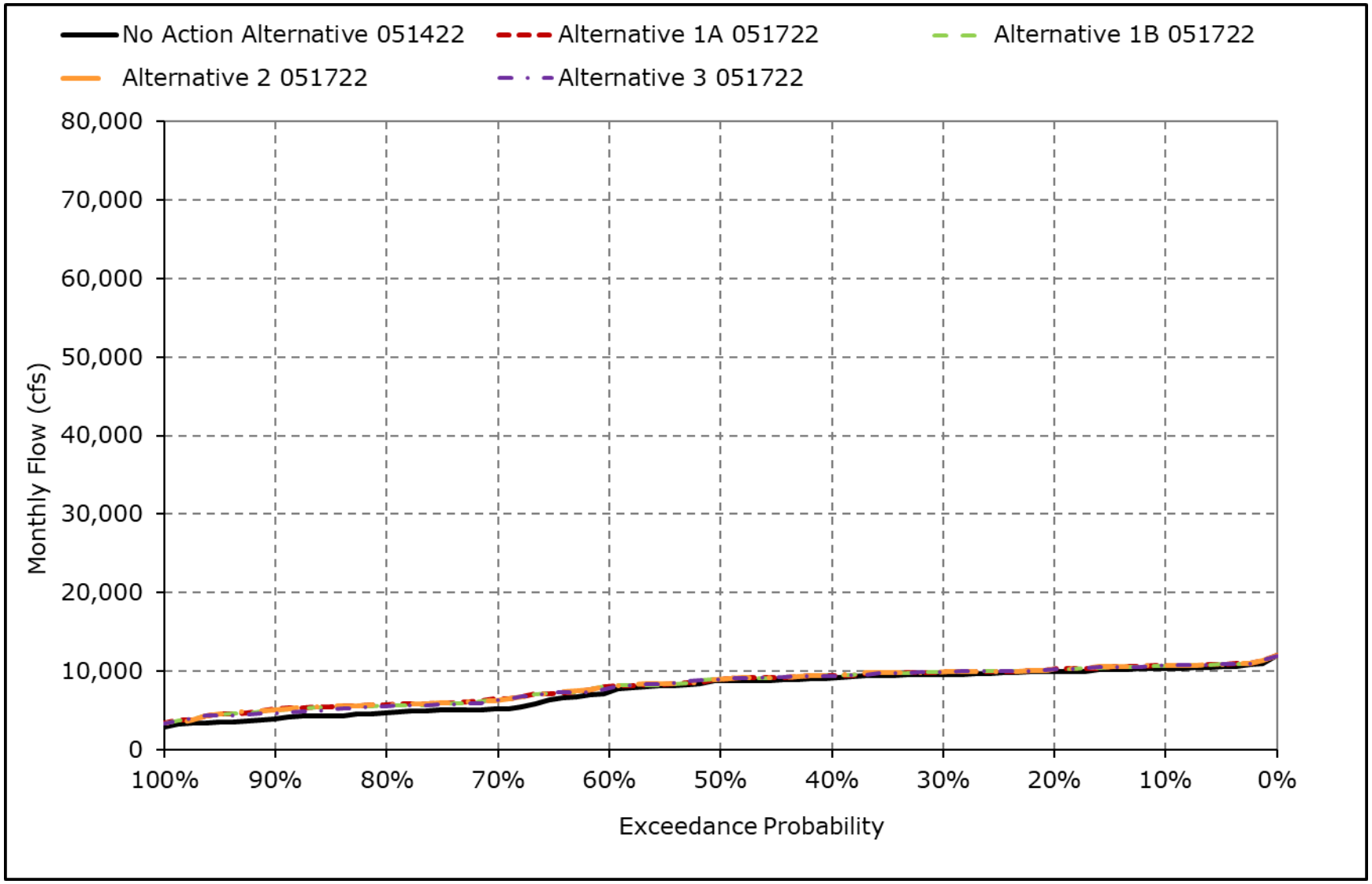
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-4-16. Sacramento River Flow at Rio Vista, July



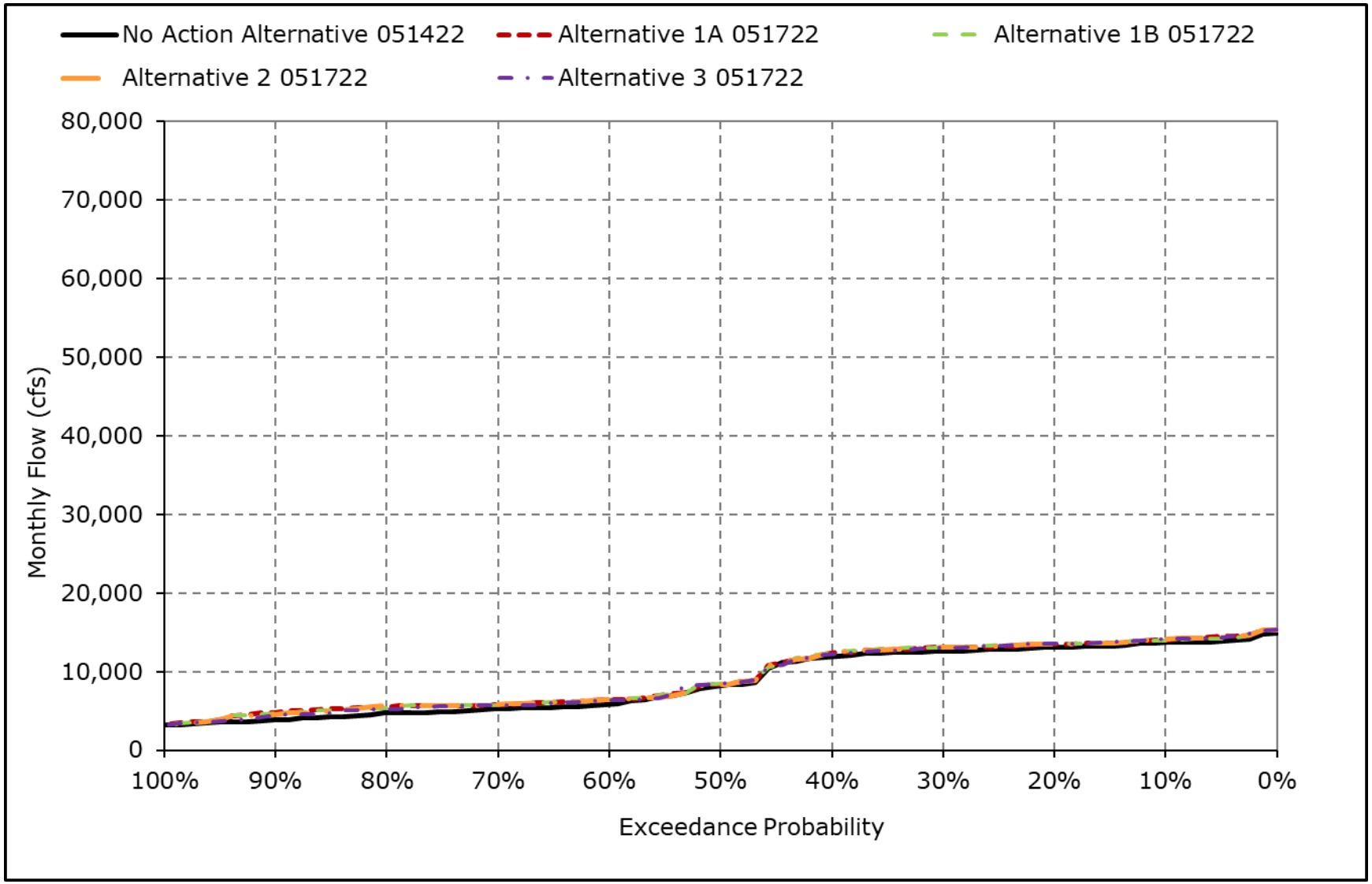
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-4-17. Sacramento River Flow at Rio Vista, August



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-4-18. Sacramento River Flow at Rio Vista, September



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 5B3-5-1a. Delta Outflow, No Action Alternative 051422, Monthly Outflow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,138	18,660	65,227	100,114	129,853	90,514	70,579	46,454	30,726	11,672	7,696	12,803
20% Exceedance	8,305	7,898	36,861	67,830	83,471	64,999	49,925	31,488	14,688	9,673	6,596	12,232
30% Exceedance	7,684	5,384	18,945	47,178	64,254	46,009	29,197	21,035	10,281	8,382	6,154	11,750
40% Exceedance	6,980	5,005	13,099	27,806	54,311	35,250	26,102	17,470	8,658	8,000	5,673	11,250
50% Exceedance	5,402	4,926	9,356	23,219	36,297	26,607	20,779	15,363	7,827	8,000	4,270	4,068
60% Exceedance	4,378	4,500	6,437	15,729	24,759	22,132	15,366	11,097	7,536	6,500	4,000	3,013
70% Exceedance	4,000	4,500	5,120	11,605	18,507	16,375	12,535	9,372	7,150	5,492	3,850	3,000
80% Exceedance	4,000	4,500	4,630	8,661	14,643	12,821	11,244	7,210	6,478	5,000	3,500	3,000
90% Exceedance	4,000	3,804	4,500	7,420	10,039	8,974	9,568	6,180	4,778	4,000	3,500	3,000
Full Simulation Period Average[a]	6,432	8,782	22,285	41,901	54,440	43,147	30,213	21,063	12,911	8,183	5,251	7,517
Wet Water Years (32%)	8,744	11,731	26,384	84,727	100,499	79,534	54,518	38,005	23,349	11,768	7,348	13,004
Above Normal Water Years (15%)	7,173	8,490	19,049	46,599	62,329	55,309	32,164	23,615	12,017	9,727	6,270	11,573
Below Normal Water Years (17%)	6,111	10,090	26,806	21,983	38,261	23,137	21,867	15,321	8,258	7,503	4,040	3,511
Dry Water Years (22%)	4,129	7,056	24,247	13,418	22,542	19,385	14,090	9,607	7,056	5,278	3,626	3,013
Critical Water Years (15%)	4,514	3,749	8,423	10,372	13,481	11,136	9,525	5,686	5,397	4,020	3,536	3,000

Table 5B3-5-1b. Delta Outflow, Alternative 1A 051722, Monthly Outflow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,422	16,335	63,312	99,811	126,669	88,663	67,706	46,325	30,658	11,672	8,065	13,279
20% Exceedance	8,401	6,614	33,628	65,348	81,669	63,235	47,326	31,486	14,690	9,689	6,987	12,443
30% Exceedance	7,971	5,486	17,648	44,175	61,915	42,738	29,246	21,036	10,281	8,386	6,494	12,186
40% Exceedance	7,229	5,076	12,656	26,733	54,060	35,606	26,424	17,465	8,721	8,000	6,071	11,653
50% Exceedance	5,235	4,937	9,695	21,370	35,460	25,831	20,786	15,359	7,839	7,989	4,555	4,163
60% Exceedance	4,486	4,744	6,452	15,732	24,630	20,966	15,387	11,099	7,543	6,497	4,221	3,457
70% Exceedance	4,353	4,544	5,092	11,606	18,299	16,333	12,643	9,324	7,162	5,590	4,002	3,271
80% Exceedance	4,264	4,500	4,632	8,558	14,741	13,016	11,248	7,214	6,479	5,096	3,850	3,242
90% Exceedance	4,048	3,774	4,500	7,372	10,040	8,974	9,566	6,305	4,794	4,249	3,645	3,053
Full Simulation Period Average[a]	6,545	8,563	21,706	41,056	53,385	42,482	29,924	21,037	12,913	8,219	5,525	7,820
Wet Water Years (32%)	8,891	11,485	25,922	83,540	98,938	79,173	53,844	37,748	23,358	11,756	7,689	13,433
Above Normal Water Years (15%)	7,487	8,356	18,333	44,787	60,697	53,618	31,896	23,821	11,981	9,742	6,601	11,963
Below Normal Water Years (17%)	6,112	9,328	25,718	21,359	37,362	22,583	21,612	15,329	8,246	7,509	4,211	3,711
Dry Water Years (22%)	4,303	7,038	23,676	13,165	21,807	18,650	14,122	9,671	7,068	5,387	3,912	3,231
Critical Water Years (15%)	4,386	3,834	8,311	10,093	13,434	10,810	9,527	5,757	5,423	4,108	3,714	3,190

Table 5B3-5-1c. Delta Outflow, Alternative 1A 051722 minus No Action Alternative 051422, Monthly Outflow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	284	-2,326	-1,914	-303	-3,185	-1,851	-2,872	-130	-68	0	370	476
20% Exceedance	96	-1,285	-3,233	-2,482	-1,802	-1,764	-2,600	-2	3	16	390	211
30% Exceedance	287	103	-1,297	-3,003	-2,339	-3,272	49	1	0	4	341	436
40% Exceedance	249	71	-443	-1,073	-252	356	322	-6	63	0	398	403
50% Exceedance	-167	11	339	-1,850	-836	-776	7	-3	12	-11	285	95
60% Exceedance	109	244	15	3	-129	-1,166	20	2	7	-3	221	444
70% Exceedance	353	44	-28	0	-208	-42	108	-49	12	98	153	271
80% Exceedance	264	0	2	-103	98	195	3	4	1	96	350	242
90% Exceedance	48	-30	0	-48	1	0	-1	125	16	249	145	53
Full Simulation Period Average[a]	112	-219	-579	-845	-1,056	-665	-289	-26	2	36	275	303
Wet Water Years (32%)	146	-246	-462	-1,187	-1,561	-361	-674	-258	9	-12	341	429
Above Normal Water Years (15%)	314	-133	-715	-1,812	-1,632	-1,692	-269	206	-36	15	332	391
Below Normal Water Years (17%)	1	-762	-1,089	-625	-900	-554	-255	8	-12	5	171	200
Dry Water Years (22%)	174	-18	-572	-253	-735	-735	32	64	12	109	286	218
Critical Water Years (15%)	-128	84	-112	-279	-47	-325	2	72	26	87	178	190

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-5-2a. Delta Outflow, No Action Alternative 051422, Monthly Outflow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,138	18,660	65,227	100,114	129,853	90,514	70,579	46,454	30,726	11,672	7,696	12,803
20% Exceedance	8,305	7,898	36,861	67,830	83,471	64,999	49,925	31,488	14,688	9,673	6,596	12,232
30% Exceedance	7,684	5,384	18,945	47,178	64,254	46,009	29,197	21,035	10,281	8,382	6,154	11,750
40% Exceedance	6,980	5,005	13,099	27,806	54,311	35,250	26,102	17,470	8,658	8,000	5,673	11,250
50% Exceedance	5,402	4,926	9,356	23,219	36,297	26,607	20,779	15,363	7,827	8,000	4,270	4,068
60% Exceedance	4,378	4,500	6,437	15,729	24,759	22,132	15,366	11,097	7,536	6,500	4,000	3,013
70% Exceedance	4,000	4,500	5,120	11,605	18,507	16,375	12,535	9,372	7,150	5,492	3,850	3,000
80% Exceedance	4,000	4,500	4,630	8,661	14,643	12,821	11,244	7,210	6,478	5,000	3,500	3,000
90% Exceedance	4,000	3,804	4,500	7,420	10,039	8,974	9,568	6,180	4,778	4,000	3,500	3,000
Full Simulation Period Average[a]	6,432	8,782	22,285	41,901	54,440	43,147	30,213	21,063	12,911	8,183	5,251	7,517
Wet Water Years (32%)	8,744	11,731	26,384	84,727	100,499	79,534	54,518	38,005	23,349	11,768	7,348	13,004
Above Normal Water Years (15%)	7,173	8,490	19,049	46,599	62,329	55,309	32,164	23,615	12,017	9,727	6,270	11,573
Below Normal Water Years (17%)	6,111	10,090	26,806	21,983	38,261	23,137	21,867	15,321	8,258	7,503	4,040	3,511
Dry Water Years (22%)	4,129	7,056	24,247	13,418	22,542	19,385	14,090	9,607	7,056	5,278	3,626	3,013
Critical Water Years (15%)	4,514	3,749	8,423	10,372	13,481	11,136	9,525	5,686	5,397	4,020	3,536	3,000

Table 5B3-5-2b. Delta Outflow, Alternative 1B 051722, Monthly Outflow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,570	16,261	63,280	99,803	126,514	88,663	67,706	46,326	30,656	11,784	8,065	13,339
20% Exceedance	8,395	6,616	34,153	65,311	82,037	63,051	47,328	31,480	14,693	9,682	6,987	12,673
30% Exceedance	7,939	5,318	17,659	44,160	62,073	43,086	29,446	21,037	10,187	8,403	6,518	12,186
40% Exceedance	7,107	4,994	12,612	26,733	54,288	35,107	26,436	17,465	8,580	8,000	6,071	11,653
50% Exceedance	5,227	4,892	9,699	21,347	35,460	25,832	20,786	15,363	7,799	7,989	4,521	4,163
60% Exceedance	4,519	4,713	6,451	15,728	23,784	20,966	15,373	11,157	7,543	6,500	4,195	3,398
70% Exceedance	4,389	4,561	5,092	11,606	18,298	15,907	12,641	9,422	7,113	5,588	4,002	3,280
80% Exceedance	4,234	4,500	4,633	8,549	14,744	13,016	11,245	7,318	6,479	5,027	3,849	3,230
90% Exceedance	4,034	3,771	4,500	7,367	10,040	8,974	9,566	6,304	4,696	4,254	3,622	3,050
Full Simulation Period Average[a]	6,549	8,505	21,891	40,975	53,453	42,444	29,910	21,100	12,891	8,225	5,520	7,828
Wet Water Years (32%)	8,876	11,345	25,872	83,389	99,032	79,051	53,818	37,948	23,331	11,751	7,686	13,422
Above Normal Water Years (15%)	7,545	8,415	18,405	44,725	60,841	53,673	31,917	23,922	11,931	9,759	6,596	12,068
Below Normal Water Years (17%)	6,102	9,365	25,811	21,252	37,383	22,590	21,625	15,317	8,229	7,529	4,211	3,693
Dry Water Years (22%)	4,327	6,912	24,456	13,146	21,870	18,610	14,076	9,617	7,065	5,386	3,907	3,238
Critical Water Years (15%)	4,363	3,829	8,330	10,086	13,431	10,810	9,518	5,743	5,411	4,123	3,698	3,176

Table 5B3-5-2c. Delta Outflow, Alternative 1B 051722 minus No Action Alternative 051422, Monthly Outflow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	432	-2,400	-1,947	-311	-3,339	-1,851	-2,873	-129	-70	113	370	536
20% Exceedance	89	-1,282	-2,708	-2,519	-1,434	-1,948	-2,598	-8	5	9	390	441
30% Exceedance	255	-65	-1,286	-3,019	-2,181	-2,923	250	2	-94	21	364	436
40% Exceedance	127	-11	-486	-1,073	-24	-144	334	-6	-78	0	398	403
50% Exceedance	-175	-34	343	-1,872	-836	-775	7	1	-28	-11	251	95
60% Exceedance	142	213	15	0	-975	-1,166	6	59	7	0	195	386
70% Exceedance	389	61	-29	1	-209	-468	105	50	-36	96	152	280
80% Exceedance	234	0	4	-112	101	195	1	108	1	27	349	230
90% Exceedance	34	-34	0	-54	1	0	-1	124	-82	254	122	50
Full Simulation Period Average[a]	116	-277	-394	-925	-988	-704	-303	37	-19	43	269	311
Wet Water Years (32%)	132	-386	-512	-1,339	-1,468	-483	-700	-57	-18	-17	338	418
Above Normal Water Years (15%)	372	-75	-644	-1,874	-1,488	-1,636	-247	307	-87	32	326	495
Below Normal Water Years (17%)	-8	-725	-996	-731	-878	-547	-241	-3	-30	26	171	182
Dry Water Years (22%)	198	-145	209	-272	-673	-775	-14	10	9	108	281	225
Critical Water Years (15%)	-152	79	-94	-286	-49	-325	-7	57	15	102	162	176

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-5-3a. Delta Outflow, No Action Alternative 051422, Monthly Outflow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,138	18,660	65,227	100,114	129,853	90,514	70,579	46,454	30,726	11,672	7,696	12,803
20% Exceedance	8,305	7,898	36,861	67,830	83,471	64,999	49,925	31,488	14,688	9,673	6,596	12,232
30% Exceedance	7,684	5,384	18,945	47,178	64,254	46,009	29,197	21,035	10,281	8,382	6,154	11,750
40% Exceedance	6,980	5,005	13,099	27,806	54,311	35,250	26,102	17,470	8,658	8,000	5,673	11,250
50% Exceedance	5,402	4,926	9,356	23,219	36,297	26,607	20,779	15,363	7,827	8,000	4,270	4,068
60% Exceedance	4,378	4,500	6,437	15,729	24,759	22,132	15,366	11,097	7,536	6,500	4,000	3,013
70% Exceedance	4,000	4,500	5,120	11,605	18,507	16,375	12,535	9,372	7,150	5,492	3,850	3,000
80% Exceedance	4,000	4,500	4,630	8,661	14,643	12,821	11,244	7,210	6,478	5,000	3,500	3,000
90% Exceedance	4,000	3,804	4,500	7,420	10,039	8,974	9,568	6,180	4,778	4,000	3,500	3,000
Full Simulation Period Average[a]	6,432	8,782	22,285	41,901	54,440	43,147	30,213	21,063	12,911	8,183	5,251	7,517
Wet Water Years (32%)	8,744	11,731	26,384	84,727	100,499	79,534	54,518	38,005	23,349	11,768	7,348	13,004
Above Normal Water Years (15%)	7,173	8,490	19,049	46,599	62,329	55,309	32,164	23,615	12,017	9,727	6,270	11,573
Below Normal Water Years (17%)	6,111	10,090	26,806	21,983	38,261	23,137	21,867	15,321	8,258	7,503	4,040	3,511
Dry Water Years (22%)	4,129	7,056	24,247	13,418	22,542	19,385	14,090	9,607	7,056	5,278	3,626	3,013
Critical Water Years (15%)	4,514	3,749	8,423	10,372	13,481	11,136	9,525	5,686	5,397	4,020	3,536	3,000

Table 5B3-5-3b. Delta Outflow, Alternative 2 051722, Monthly Outflow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,422	16,367	63,317	99,852	126,767	88,663	67,706	46,349	30,657	11,672	8,065	13,204
20% Exceedance	8,575	6,605	33,635	65,355	80,979	64,008	47,318	31,486	14,691	9,689	6,987	12,623
30% Exceedance	8,005	5,486	17,635	44,175	61,943	42,854	29,247	21,036	10,281	8,386	6,494	12,215
40% Exceedance	7,229	5,052	12,665	26,733	53,670	35,608	26,424	17,465	8,721	8,000	6,071	11,653
50% Exceedance	5,248	4,937	9,692	21,392	35,459	25,831	20,786	15,359	7,839	7,989	4,534	4,163
60% Exceedance	4,536	4,741	6,452	15,731	24,630	20,966	15,385	11,099	7,543	6,497	4,294	3,464
70% Exceedance	4,358	4,551	5,120	11,606	18,299	16,332	12,643	9,324	7,162	5,590	4,006	3,291
80% Exceedance	4,258	4,500	4,632	8,559	14,741	13,016	11,247	7,214	6,479	5,096	3,933	3,245
90% Exceedance	4,079	3,665	4,506	7,373	10,040	8,974	9,566	6,304	4,794	4,247	3,718	3,032
Full Simulation Period Average[a]	6,568	8,557	21,724	41,063	53,436	42,534	29,919	21,038	12,913	8,219	5,546	7,833
Wet Water Years (32%)	8,914	11,487	25,906	83,568	99,152	79,316	53,843	37,751	23,359	11,756	7,689	13,455
Above Normal Water Years (15%)	7,547	8,356	18,402	44,794	60,648	53,674	31,863	23,821	11,981	9,742	6,634	11,998
Below Normal Water Years (17%)	6,129	9,329	25,720	21,336	37,298	22,589	21,610	15,329	8,246	7,509	4,239	3,704
Dry Water Years (22%)	4,318	7,029	23,686	13,165	21,807	18,651	14,122	9,671	7,068	5,386	3,902	3,234
Critical Water Years (15%)	4,394	3,801	8,380	10,096	13,440	10,797	9,526	5,755	5,423	4,108	3,802	3,202

Table 5B3-5-3c. Delta Outflow, Alternative 2 051722 minus No Action Alternative 051422, Monthly Outflow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	284	-2,293	-1,909	-262	-3,086	-1,851	-2,872	-106	-69	0	370	401
20% Exceedance	270	-1,293	-3,226	-2,474	-2,492	-991	-2,607	-2	4	16	390	391
30% Exceedance	321	103	-1,310	-3,003	-2,311	-3,156	50	1	0	4	341	465
40% Exceedance	249	47	-434	-1,073	-641	358	322	-6	63	0	398	403
50% Exceedance	-154	11	336	-1,827	-838	-776	6	-4	12	-11	263	95
60% Exceedance	158	241	15	3	-129	-1,166	19	2	7	-3	294	451
70% Exceedance	358	51	0	0	-208	-43	108	-49	12	98	157	291
80% Exceedance	258	0	2	-103	98	195	2	4	1	96	433	245
90% Exceedance	79	-139	6	-48	1	0	-1	124	16	247	218	32
Full Simulation Period Average[a]	136	-225	-561	-838	-1,005	-613	-294	-25	2	36	295	316
Wet Water Years (32%)	170	-244	-478	-1,159	-1,347	-218	-675	-254	10	-12	341	451
Above Normal Water Years (15%)	374	-134	-646	-1,805	-1,681	-1,635	-301	206	-36	15	364	425
Below Normal Water Years (17%)	18	-761	-1,087	-647	-963	-549	-257	8	-12	6	199	192
Dry Water Years (22%)	190	-27	-561	-253	-735	-734	32	64	12	108	276	221
Critical Water Years (15%)	-120	52	-44	-276	-40	-339	2	70	26	87	266	202

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-5-4a. Delta Outflow, No Action Alternative 051422, Monthly Outflow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,138	18,660	65,227	100,114	129,853	90,514	70,579	46,454	30,726	11,672	7,696	12,803
20% Exceedance	8,305	7,898	36,861	67,830	83,471	64,999	49,925	31,488	14,688	9,673	6,596	12,232
30% Exceedance	7,684	5,384	18,945	47,178	64,254	46,009	29,197	21,035	10,281	8,382	6,154	11,750
40% Exceedance	6,980	5,005	13,099	27,806	54,311	35,250	26,102	17,470	8,658	8,000	5,673	11,250
50% Exceedance	5,402	4,926	9,356	23,219	36,297	26,607	20,779	15,363	7,827	8,000	4,270	4,068
60% Exceedance	4,378	4,500	6,437	15,729	24,759	22,132	15,366	11,097	7,536	6,500	4,000	3,013
70% Exceedance	4,000	4,500	5,120	11,605	18,507	16,375	12,535	9,372	7,150	5,492	3,850	3,000
80% Exceedance	4,000	4,500	4,630	8,661	14,643	12,821	11,244	7,210	6,478	5,000	3,500	3,000
90% Exceedance	4,000	3,804	4,500	7,420	10,039	8,974	9,568	6,180	4,778	4,000	3,500	3,000
Full Simulation Period Average[a]	6,432	8,782	22,285	41,901	54,440	43,147	30,213	21,063	12,911	8,183	5,251	7,517
Wet Water Years (32%)	8,744	11,731	26,384	84,727	100,499	79,534	54,518	38,005	23,349	11,768	7,348	13,004
Above Normal Water Years (15%)	7,173	8,490	19,049	46,599	62,329	55,309	32,164	23,615	12,017	9,727	6,270	11,573
Below Normal Water Years (17%)	6,111	10,090	26,806	21,983	38,261	23,137	21,867	15,321	8,258	7,503	4,040	3,511
Dry Water Years (22%)	4,129	7,056	24,247	13,418	22,542	19,385	14,090	9,607	7,056	5,278	3,626	3,013
Critical Water Years (15%)	4,514	3,749	8,423	10,372	13,481	11,136	9,525	5,686	5,397	4,020	3,536	3,000

Table 5B3-5-4b. Delta Outflow, Alternative 3 051722, Monthly Outflow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,585	17,521	63,198	99,510	126,022	88,368	67,725	46,321	30,656	11,791	8,056	13,390
20% Exceedance	8,723	8,712	34,952	65,225	82,876	63,066	47,378	31,450	14,684	9,784	6,987	12,594
30% Exceedance	7,939	6,185	17,719	44,149	61,930	43,168	29,491	21,037	10,187	8,399	6,518	12,179
40% Exceedance	7,319	5,035	13,067	26,743	53,181	35,109	26,434	17,536	8,553	8,000	6,071	11,555
50% Exceedance	5,365	4,937	9,663	21,293	35,465	25,833	20,785	15,367	7,799	7,989	4,435	4,339
60% Exceedance	4,670	4,689	6,437	15,840	23,781	20,869	15,218	11,337	7,543	6,500	4,118	3,325
70% Exceedance	4,379	4,547	5,095	11,559	18,296	16,480	12,334	9,422	7,113	5,572	3,993	3,252
80% Exceedance	4,235	4,500	4,625	8,550	14,705	13,017	11,235	7,318	6,479	5,106	3,782	3,099
90% Exceedance	4,012	3,615	4,500	7,579	10,022	8,974	9,570	6,300	4,583	4,252	3,577	3,025
Full Simulation Period Average[a]	6,675	8,781	21,973	41,009	53,380	42,351	29,909	21,089	12,873	8,241	5,511	7,796
Wet Water Years (32%)	8,776	11,414	25,942	83,448	98,668	78,838	53,770	37,915	23,331	11,751	7,696	13,386
Above Normal Water Years (15%)	7,590	8,870	18,332	44,808	61,049	53,590	31,998	23,909	11,868	9,811	6,635	12,049
Below Normal Water Years (17%)	7,023	10,493	25,666	21,202	37,544	22,330	21,594	15,350	8,185	7,580	4,190	3,696
Dry Water Years (22%)	4,278	6,880	24,858	13,136	21,820	18,745	14,110	9,604	7,060	5,389	3,873	3,221
Critical Water Years (15%)	4,396	3,840	8,379	10,174	13,404	10,821	9,517	5,733	5,411	4,118	3,650	3,076

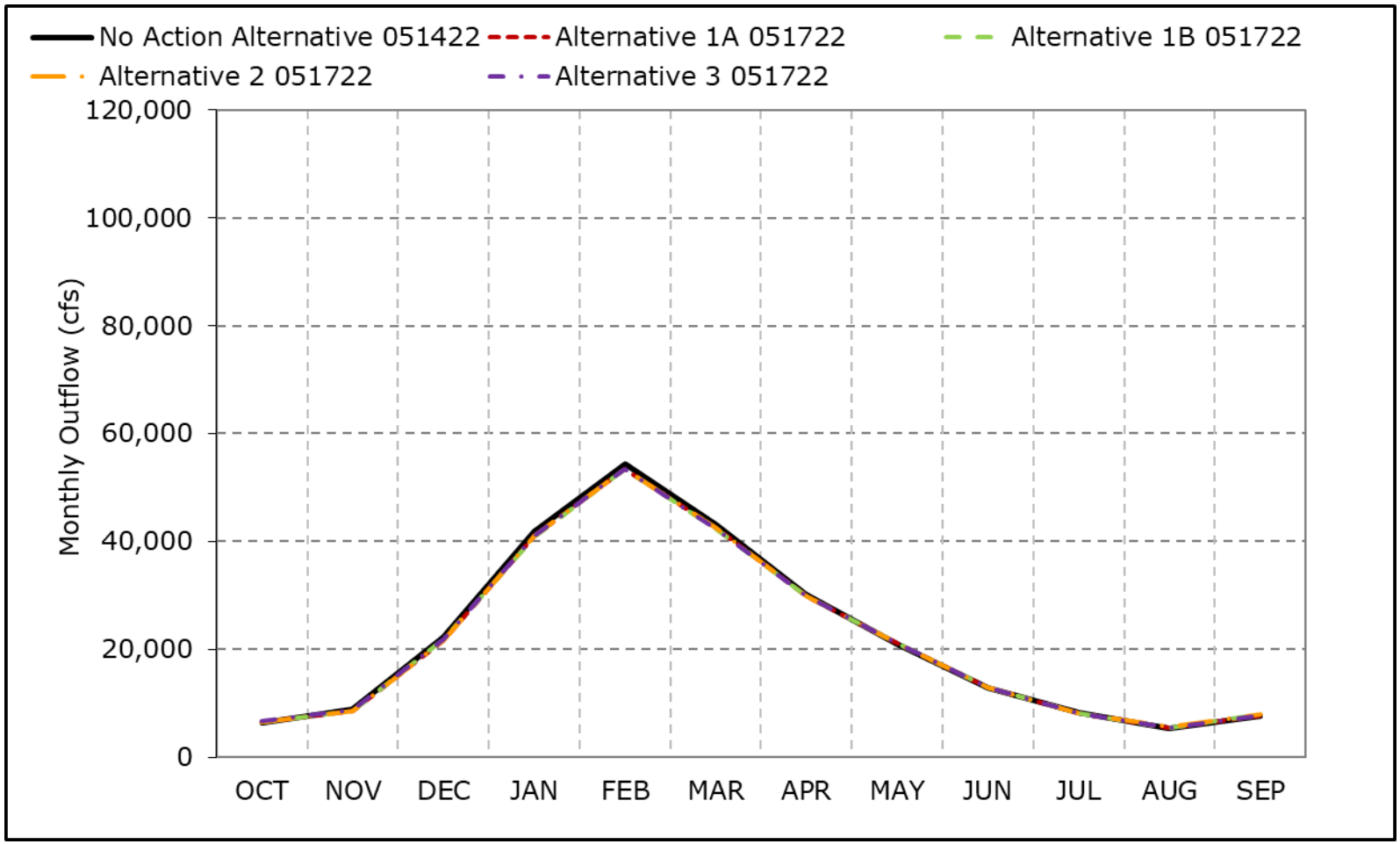
Table 5B3-5-4c. Delta Outflow, Alternative 3 051722 minus No Action Alternative 051422, Monthly Outflow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	447	-1,139	-2,028	-604	-3,832	-2,146	-2,854	-133	-70	119	360	587
20% Exceedance	418	814	-1,909	-2,605	-594	-1,933	-2,547	-38	-4	111	390	361
30% Exceedance	255	801	-1,226	-3,029	-2,324	-2,841	295	2	-94	17	364	429
40% Exceedance	339	30	-32	-1,063	-1,130	-141	333	66	-105	0	398	305
50% Exceedance	-37	11	307	-1,926	-832	-774	6	5	-28	-11	165	271
60% Exceedance	292	189	0	111	-978	-1,263	-148	240	7	0	118	312
70% Exceedance	379	47	-26	-46	-211	105	-201	50	-36	80	143	252
80% Exceedance	235	0	-5	-111	61	196	-10	108	1	106	282	99
90% Exceedance	12	-189	0	159	-17	0	2	120	-196	252	77	25
Full Simulation Period Average[a]	242	-2	-312	-892	-1,060	-797	-305	26	-37	59	260	279
Wet Water Years (32%)	32	-317	-442	-1,279	-1,831	-696	-748	-90	-18	-16	348	382
Above Normal Water Years (15%)	417	380	-717	-1,790	-1,281	-1,720	-166	294	-150	84	365	477
Below Normal Water Years (17%)	912	403	-1,140	-782	-717	-807	-273	29	-73	77	150	185
Dry Water Years (22%)	149	-177	611	-281	-722	-640	20	-3	3	111	246	209
Critical Water Years (15%)	-119	91	-45	-198	-76	-314	-8	47	15	98	114	76

[a] Based on the 82-year simulation period.

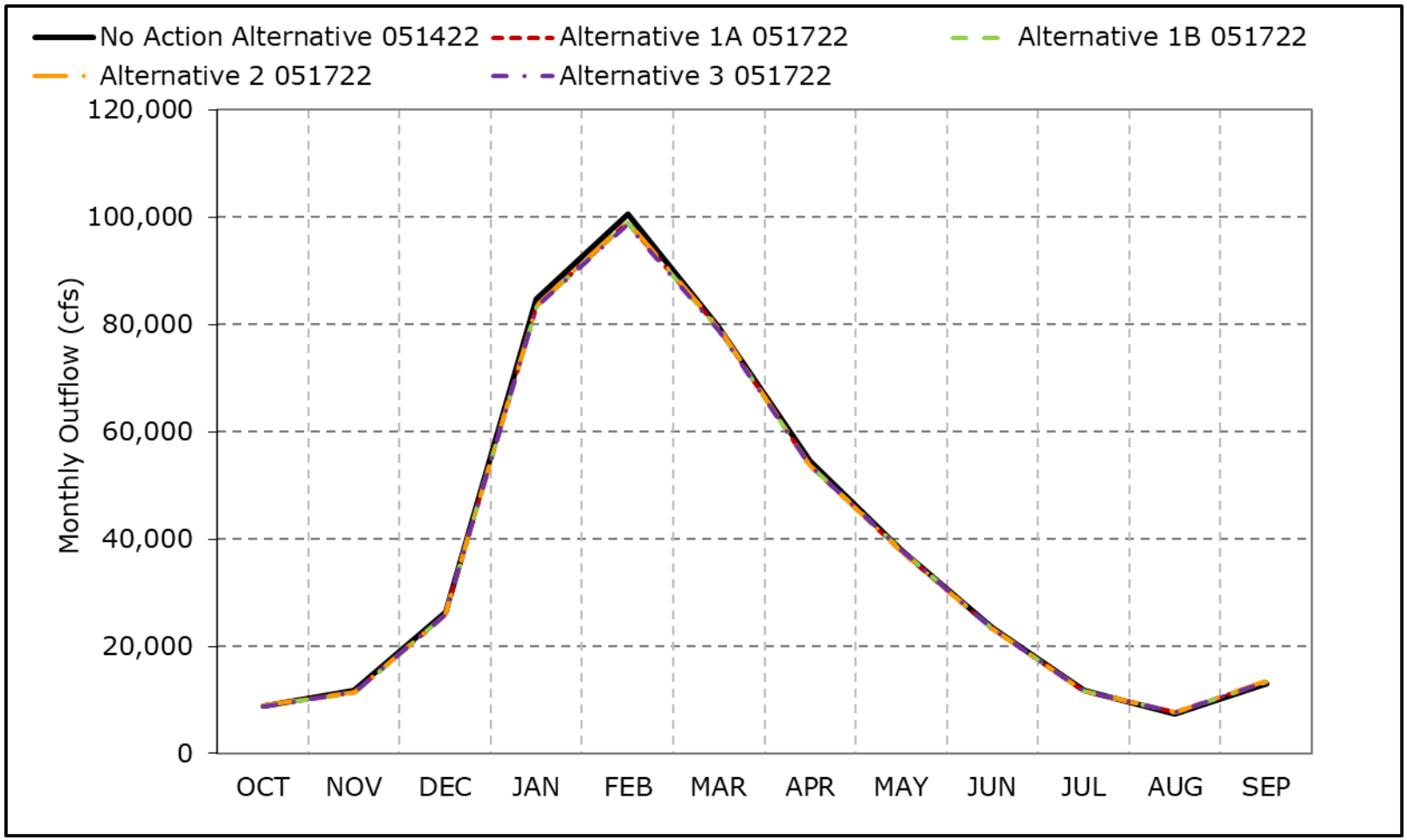
* All scenarios are simulated at current climate condition and 0 cm sea level rise.
* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* Water Year Types results are displayed with calendar year - year type sorting.

Figure 5B3-5-1. Delta Outflow, Long-Term Average Outflow



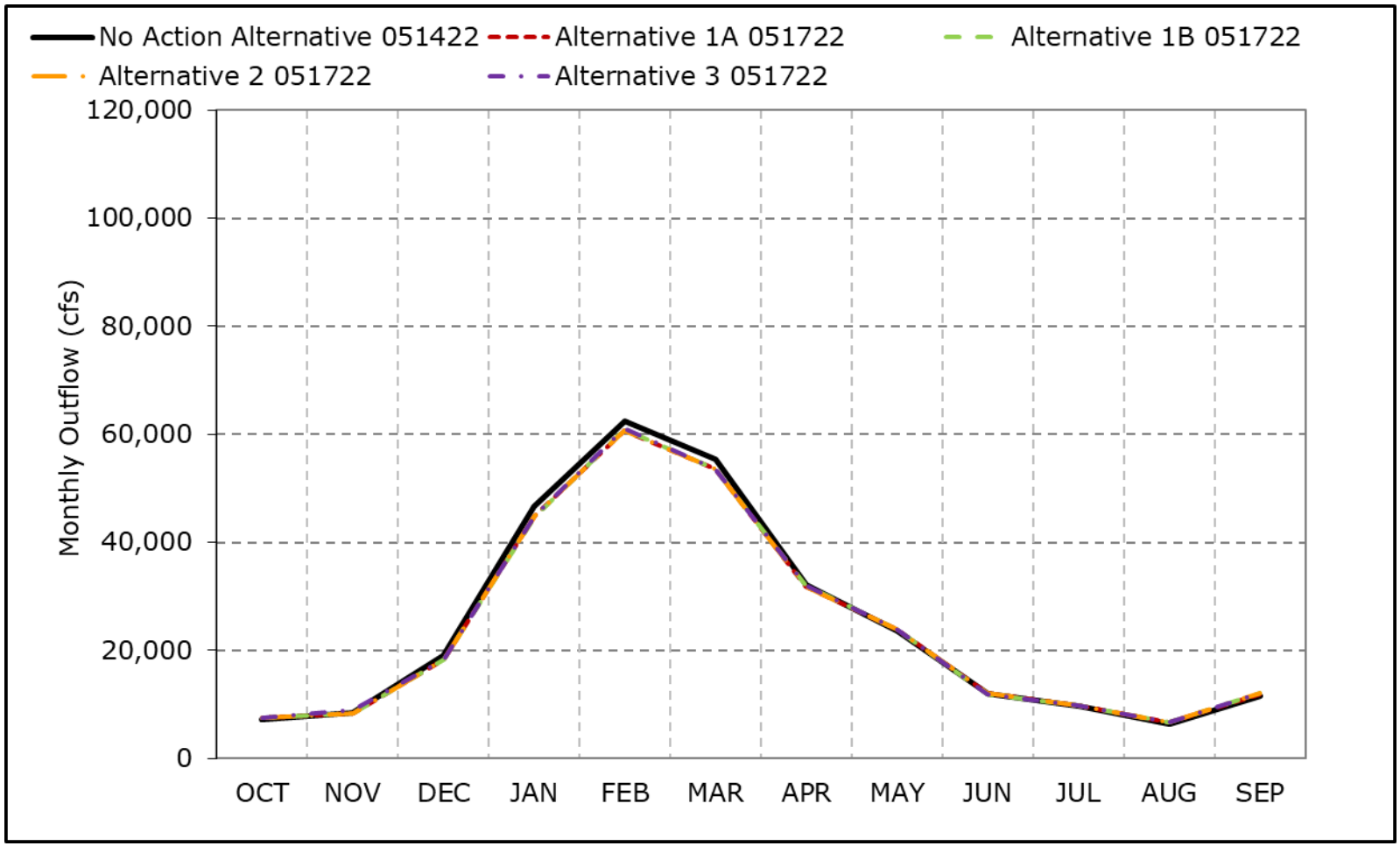
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-5-2. Delta Outflow, Wet Year Average Outflow



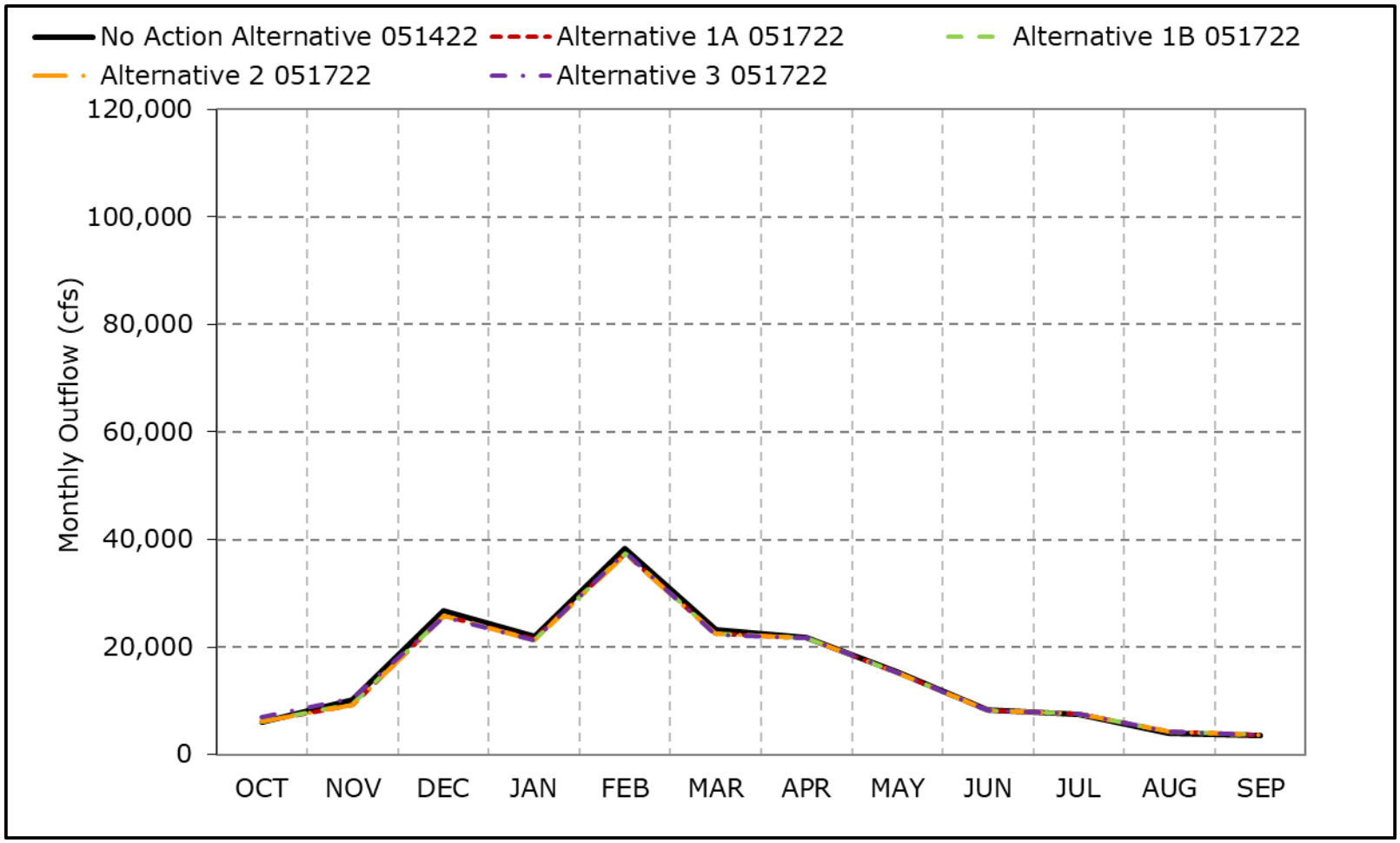
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-5-3. Delta Outflow, Above Normal Year Average Outflow



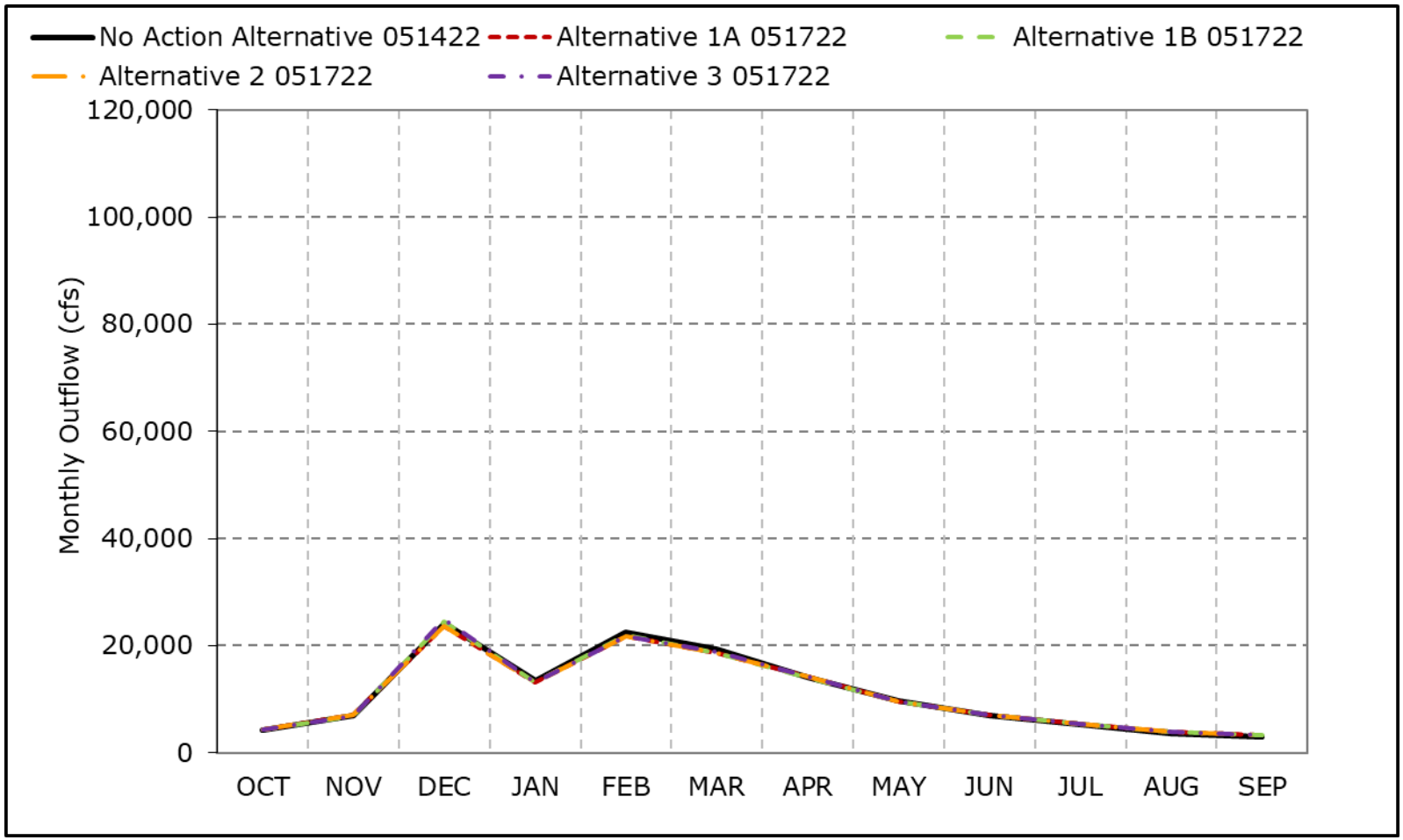
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-5-4. Delta Outflow, Below Normal Year Average Outflow



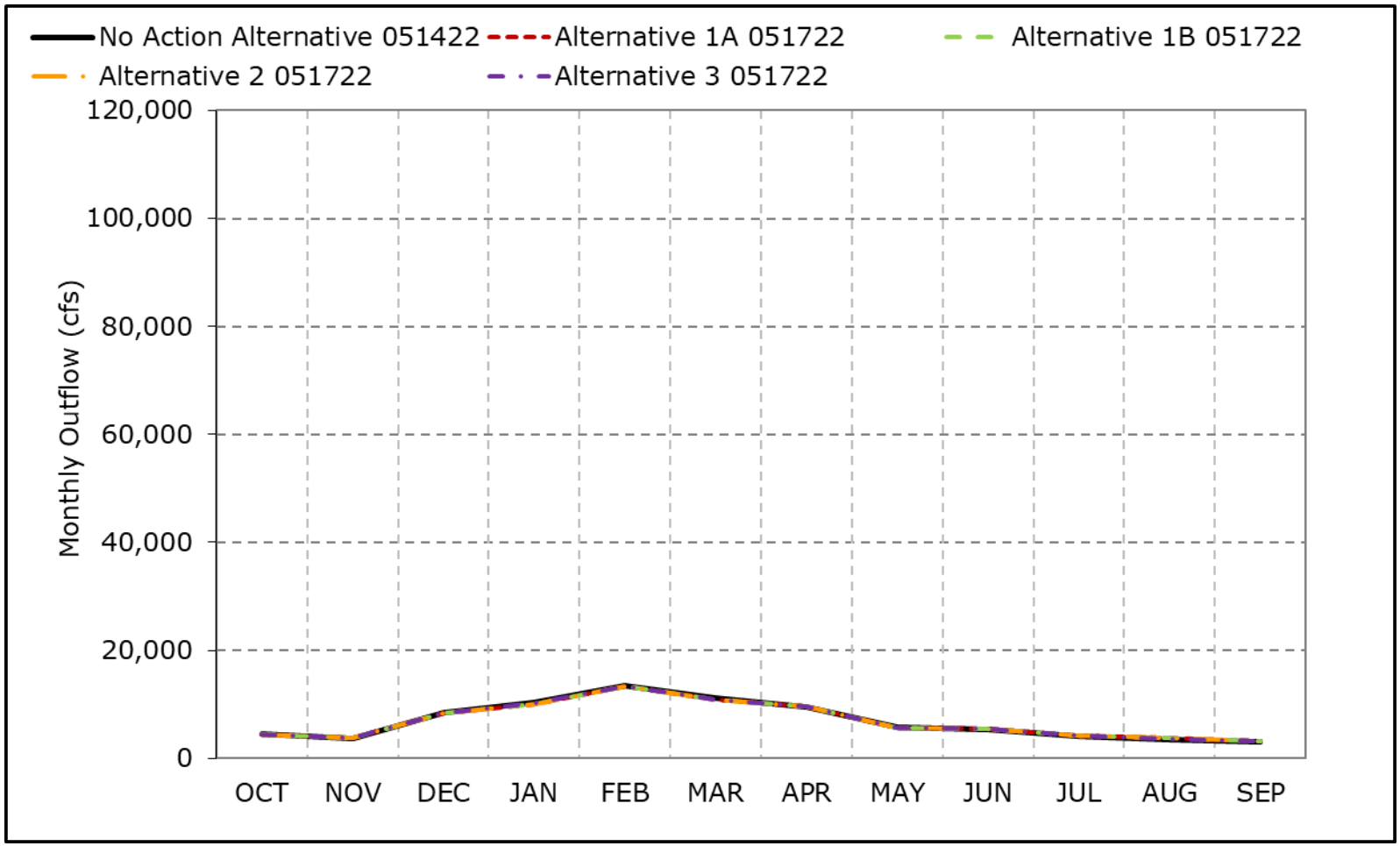
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-5-5. Delta Outflow, Dry Year Average Outflow



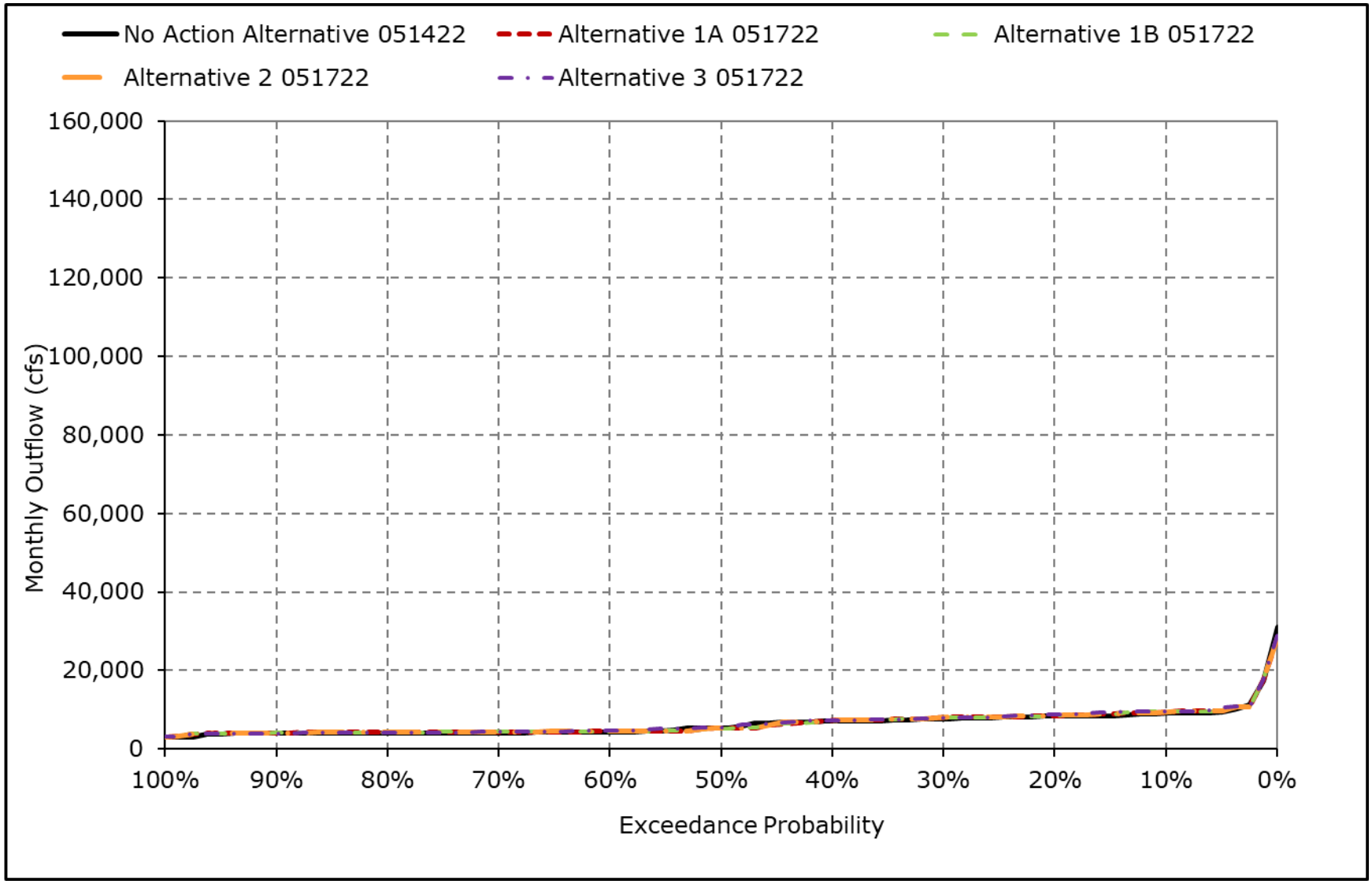
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-5-6. Delta Outflow, Critical Year Average Outflow



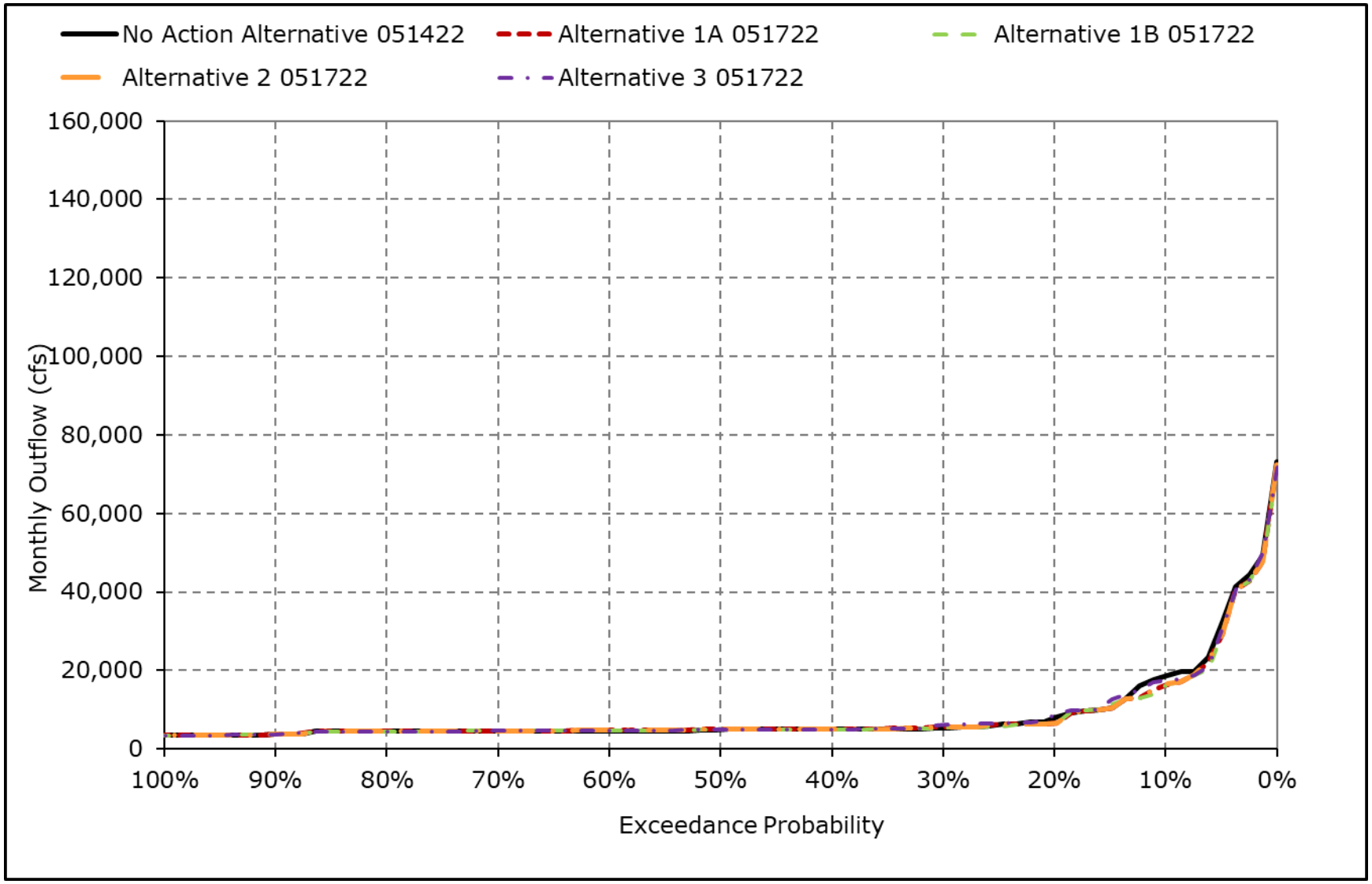
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-5-7. Delta Outflow, October



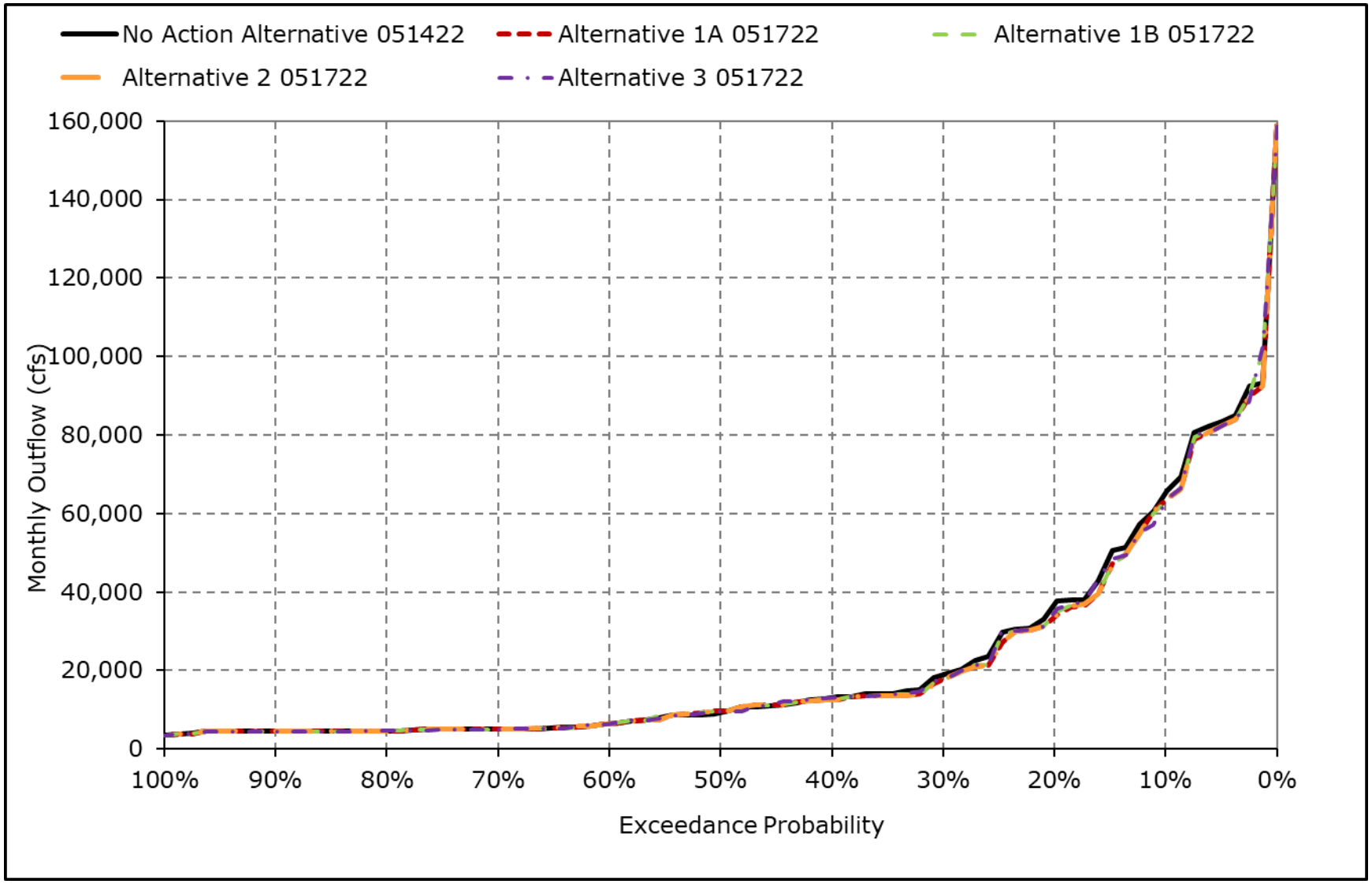
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-5-8. Delta Outflow, November



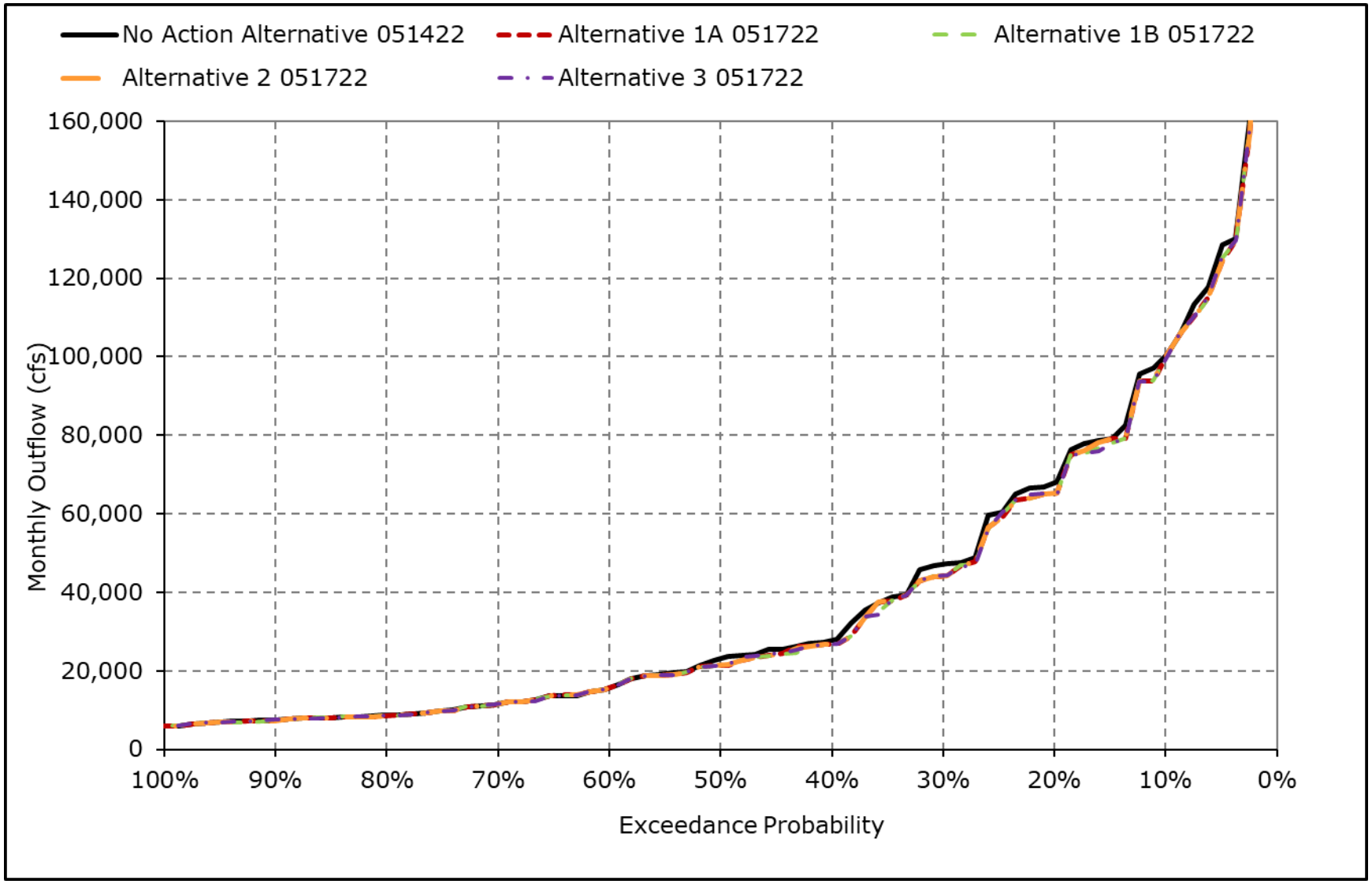
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-5-9. Delta Outflow, December



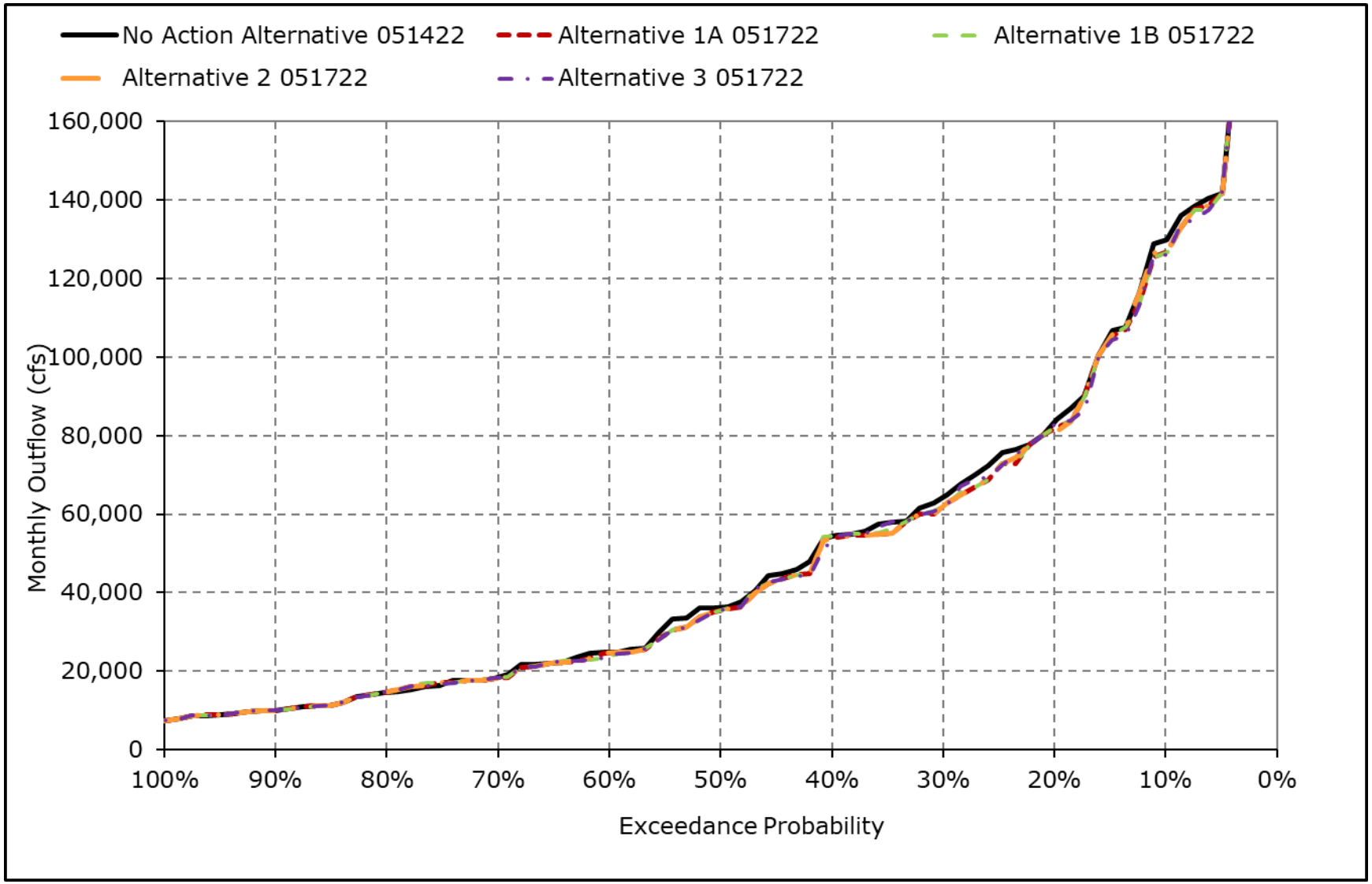
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-5-10. Delta Outflow, January



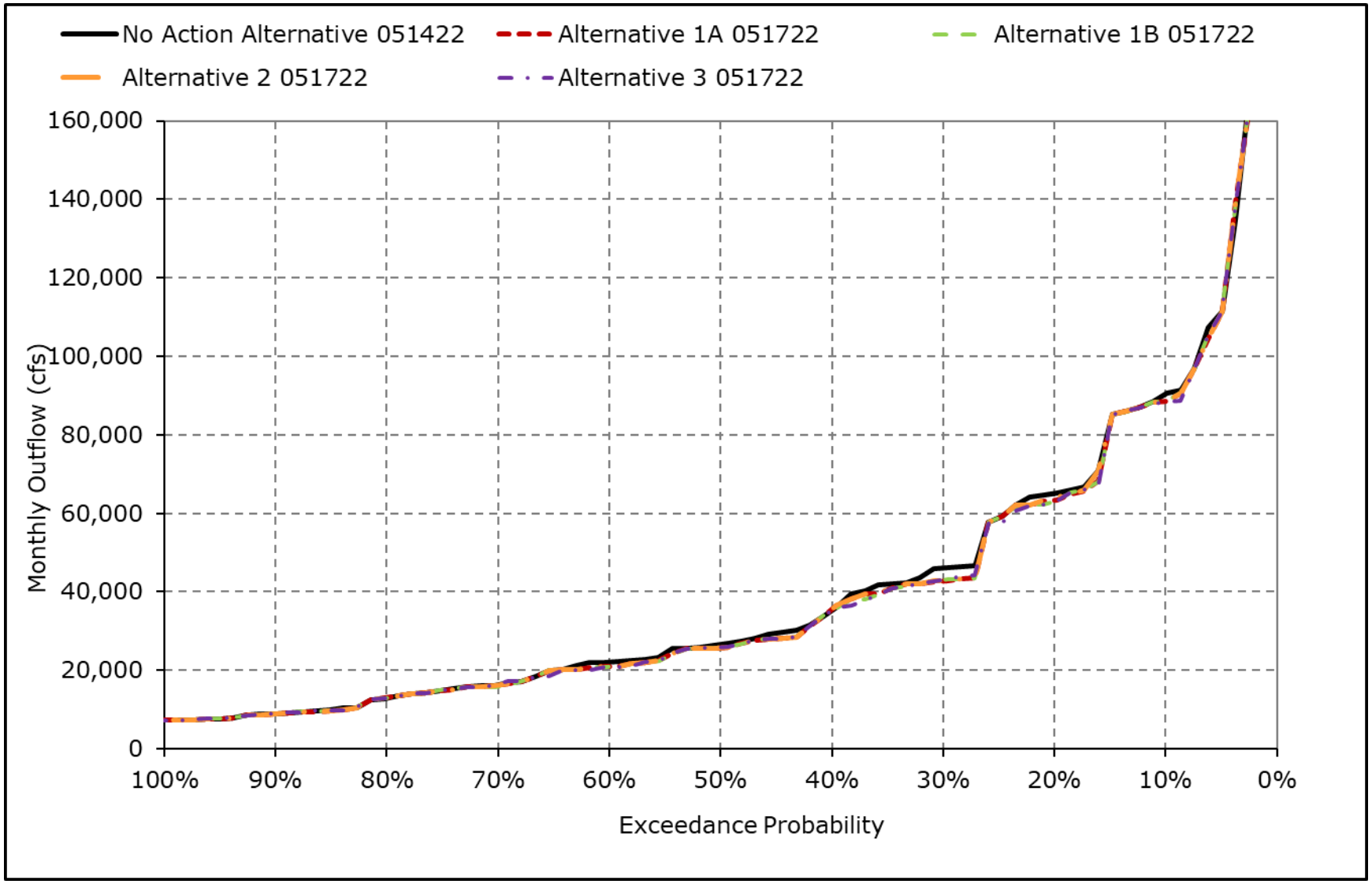
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-5-11. Delta Outflow, February



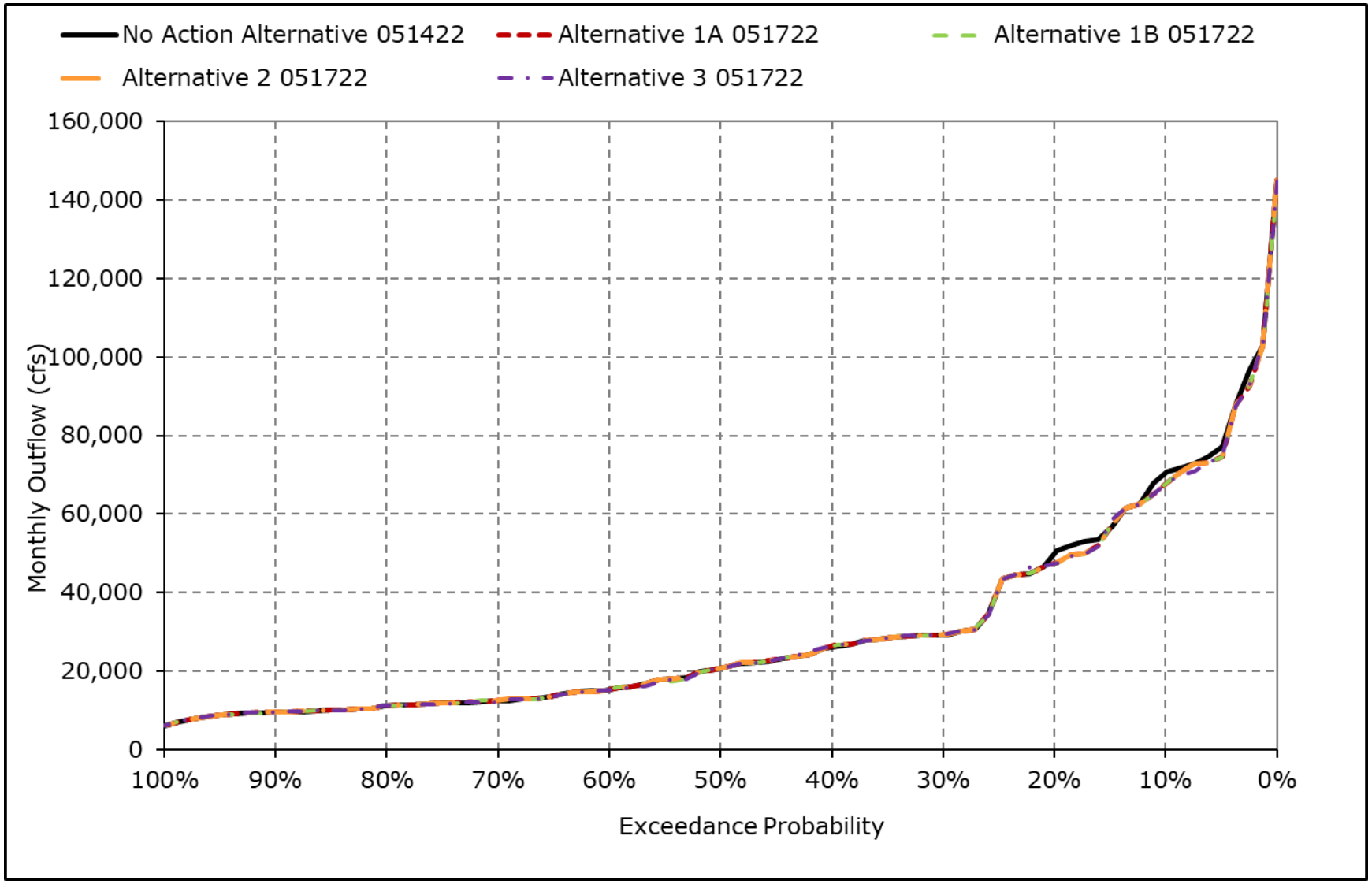
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-5-12. Delta Outflow, March



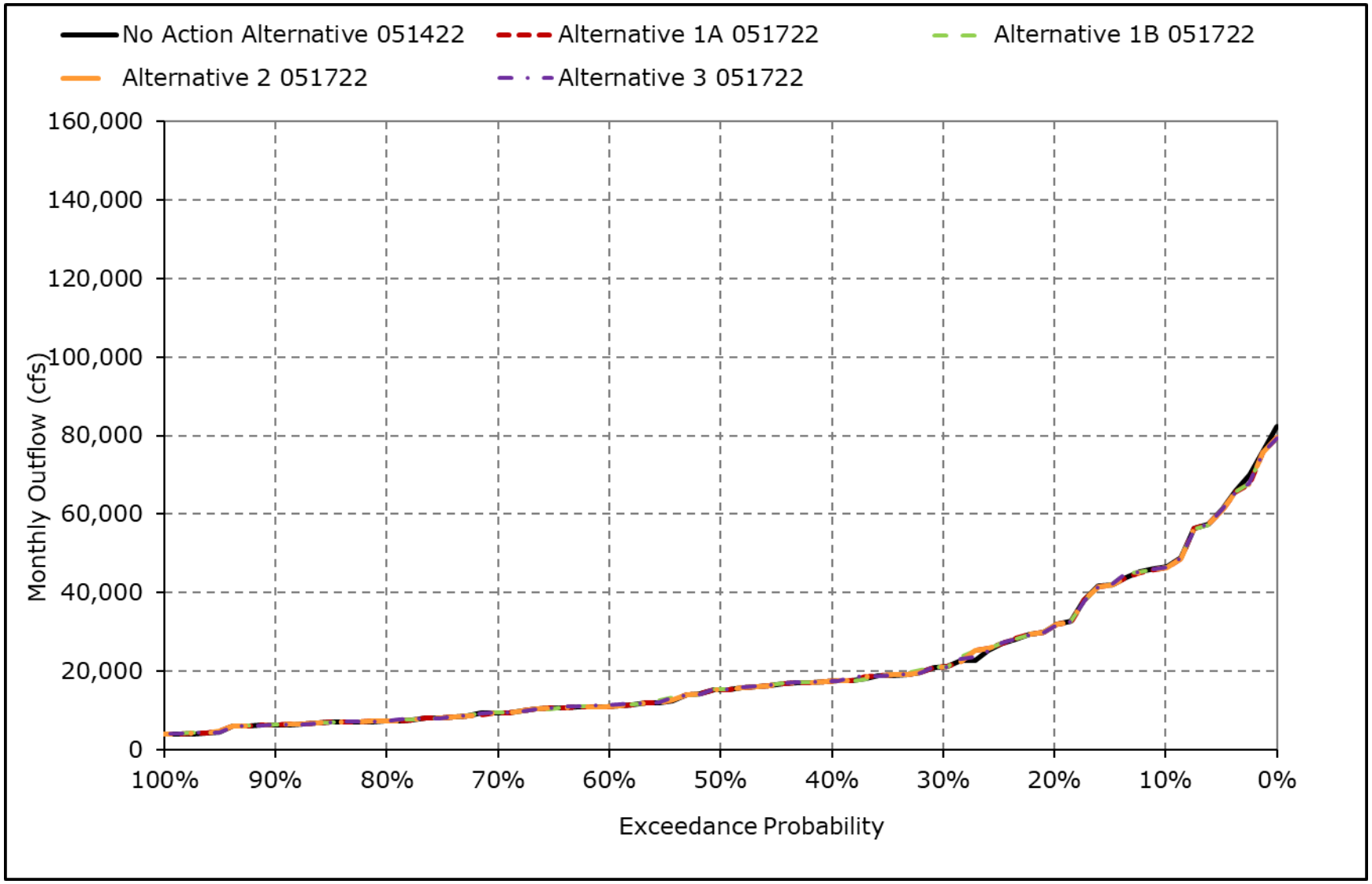
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-5-13. Delta Outflow, April



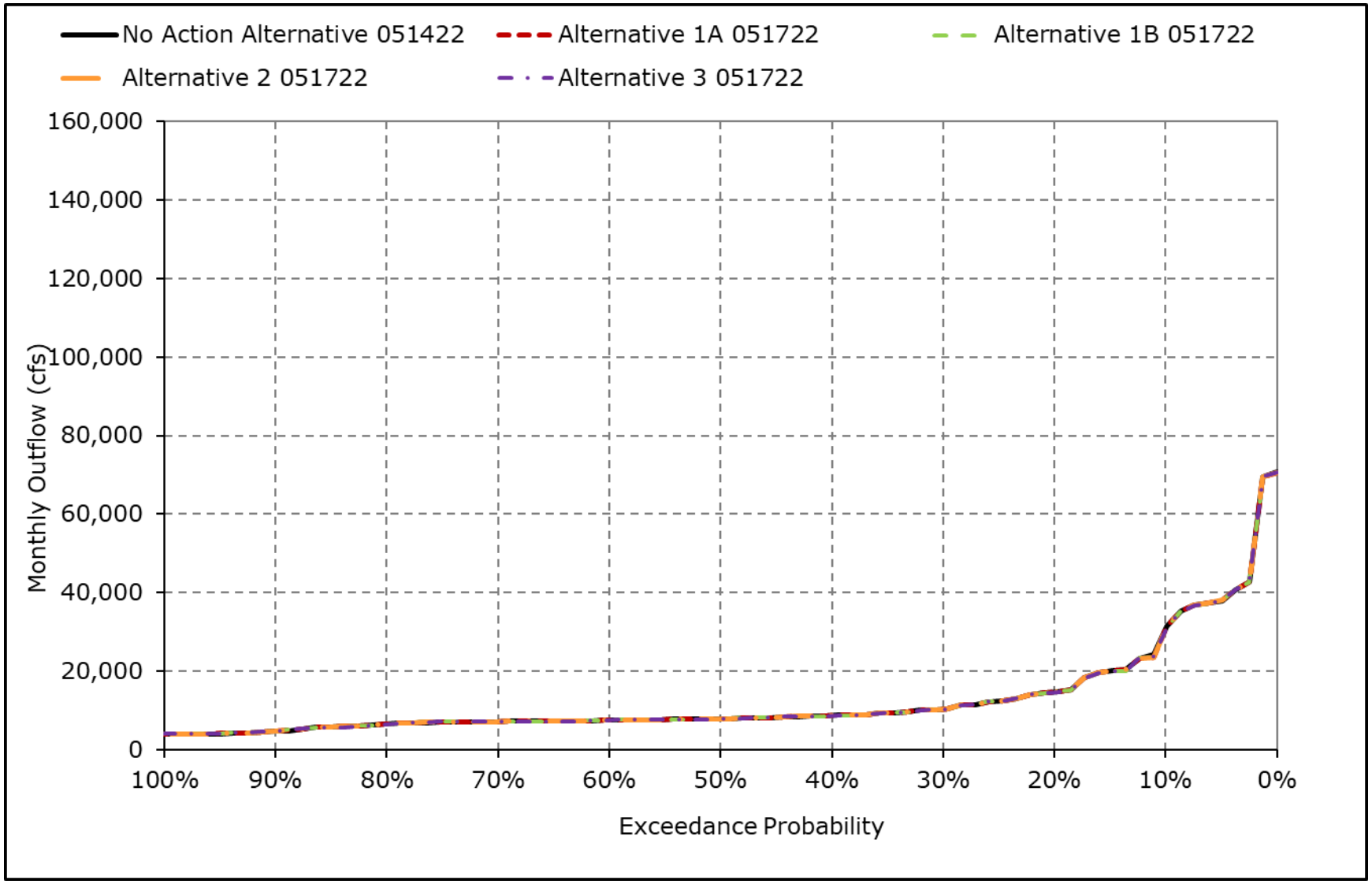
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-5-14. Delta Outflow, May



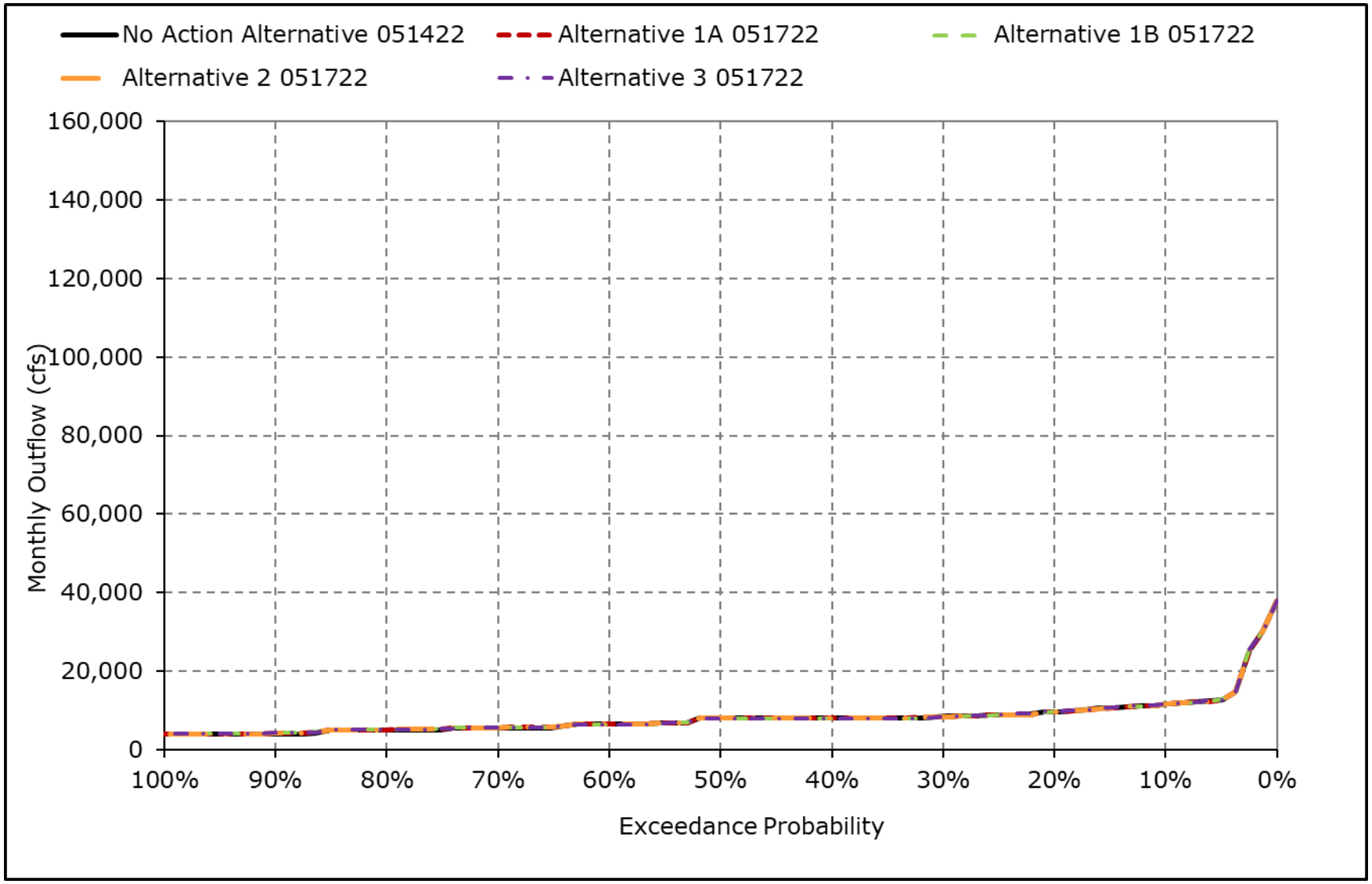
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-5-15. Delta Outflow, June



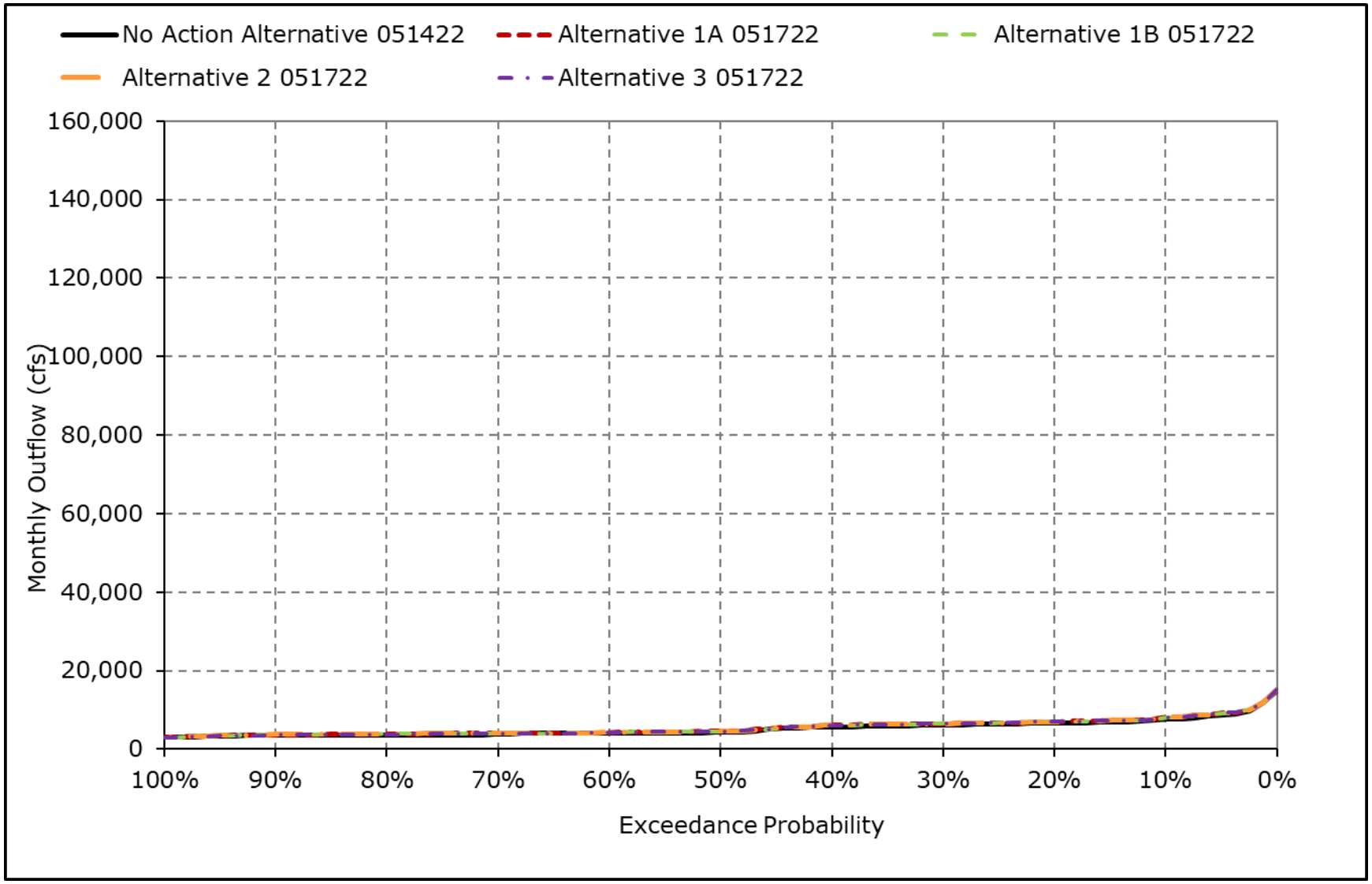
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-5-16. Delta Outflow, July



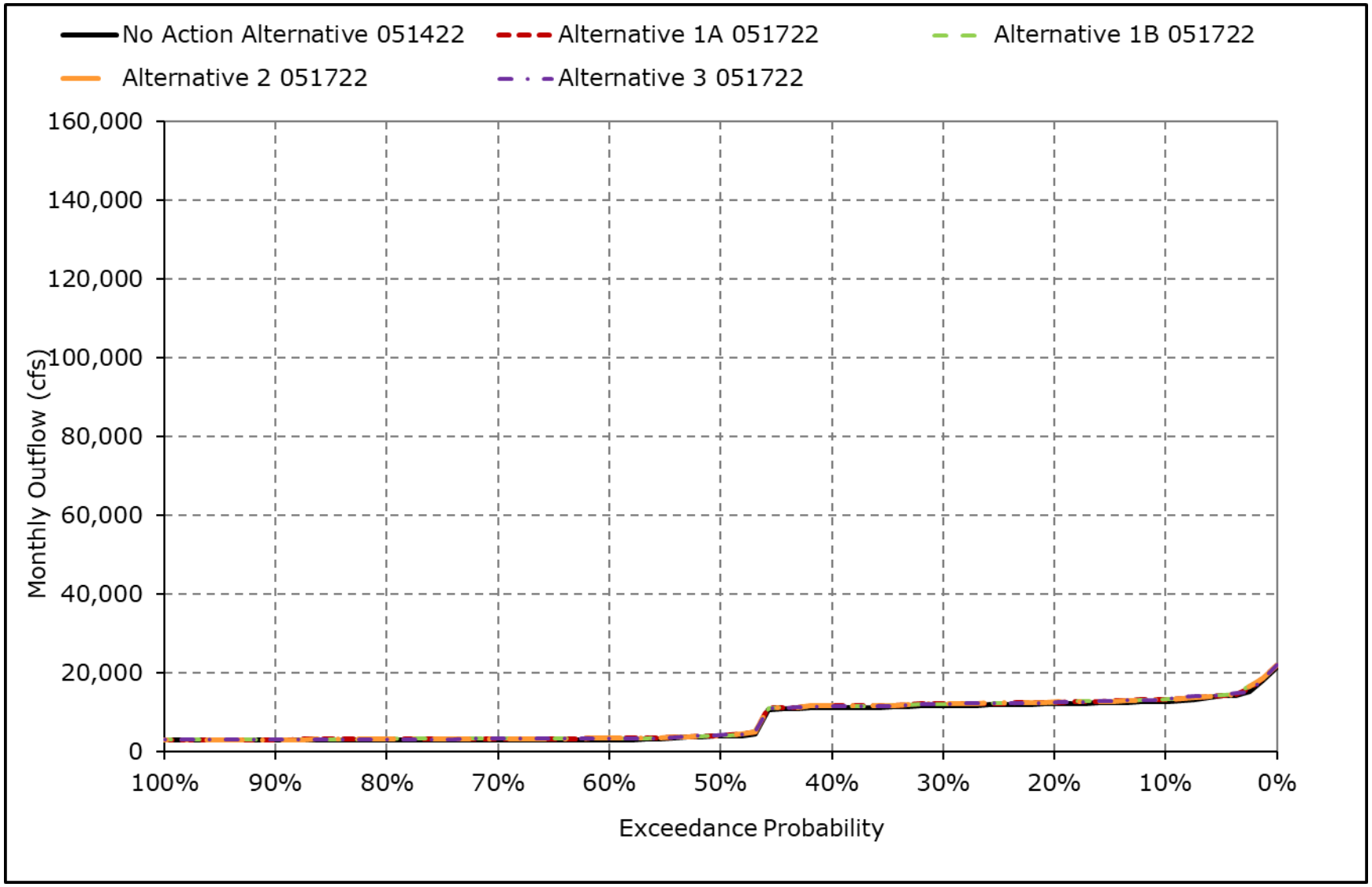
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-5-17. Delta Outflow, August



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-5-18. Delta Outflow, September



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 5B3-6-1a. Old and Middle River Flow, No Action Alternative 051422, Monthly Flow (combined flows)(cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-2,713	-3,230	-3,857	-3,645	-3,397	-1,315	-574	-1,458	-1,895	-2,931	-3,147	-3,801
20% Exceedance	-3,335	-3,761	-4,760	-3,645	-4,464	-3,258	-952	-1,795	-3,699	-4,841	-4,455	-5,171
30% Exceedance	-3,978	-4,797	-5,290	-4,514	-4,464	-3,258	-1,102	-1,882	-4,468	-7,228	-5,064	-5,854
40% Exceedance	-4,255	-6,366	-5,290	-4,516	-4,464	-3,258	-1,267	-1,971	-5,000	-8,130	-6,839	-6,235
50% Exceedance	-4,785	-7,519	-5,290	-4,516	-4,464	-3,258	-1,465	-2,107	-5,000	-8,901	-7,602	-6,931
60% Exceedance	-5,115	-8,755	-6,690	-5,000	-4,483	-3,258	-1,629	-2,311	-5,000	-9,730	-8,923	-8,109
70% Exceedance	-5,296	-9,148	-9,345	-5,226	-4,483	-3,258	-1,931	-2,453	-5,000	-10,160	-9,309	-8,690
80% Exceedance	-6,310	-9,361	-9,632	-5,226	-5,000	-3,258	-2,125	-2,729	-5,000	-10,434	-9,807	-9,094
90% Exceedance	-7,565	-9,533	-9,800	-5,226	-5,000	-3,500	-2,325	-3,484	-5,000	-11,027	-10,283	-9,411
Full Simulation Period Average[a]	-4,861	-6,831	-6,430	-3,955	-3,909	-2,440	-1,207	-2,001	-4,287	-7,953	-7,172	-6,875
Wet Water Years (32%)	-5,812	-8,705	-7,325	-2,458	-2,551	-964	-657	-1,599	-4,415	-8,075	-8,397	-8,045
Above Normal Water Years (15%)	-5,063	-8,733	-7,980	-4,331	-3,879	-2,745	-1,510	-2,418	-4,909	-9,274	-9,078	-8,699
Below Normal Water Years (17%)	-6,428	-6,475	-6,179	-4,686	-4,755	-3,270	-1,352	-2,278	-4,676	-10,462	-9,859	-8,018
Dry Water Years (22%)	-3,609	-5,131	-5,478	-5,017	-4,720	-3,304	-1,590	-2,218	-4,496	-8,126	-4,495	-5,555
Critical Water Years (15%)	-2,649	-3,832	-4,660	-4,376	-4,676	-3,065	-1,354	-1,805	-2,623	-3,178	-3,490	-3,165

Table 5B3-6-1b. Old and Middle River Flow, Alternative 1A 051722, Monthly Flow (combined flows)(cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-3,260	-3,349	-3,883	-3,645	-3,397	-1,321	-629	-978	-1,897	-3,149	-4,676	-4,539
20% Exceedance	-3,862	-4,308	-4,820	-3,645	-4,464	-3,258	-897	-1,794	-3,704	-5,698	-5,286	-5,824
30% Exceedance	-4,477	-5,492	-5,290	-4,516	-4,464	-3,258	-1,106	-1,886	-4,468	-7,410	-5,915	-6,274
40% Exceedance	-4,792	-6,912	-5,290	-4,516	-4,464	-3,258	-1,235	-1,971	-5,000	-8,628	-7,049	-6,746
50% Exceedance	-5,129	-8,471	-5,290	-4,516	-4,464	-3,258	-1,416	-2,107	-5,000	-9,103	-7,759	-7,137
60% Exceedance	-5,371	-8,875	-6,270	-5,000	-4,483	-3,258	-1,629	-2,309	-5,000	-9,878	-8,936	-8,146
70% Exceedance	-5,842	-9,163	-9,013	-5,226	-4,483	-3,258	-1,965	-2,422	-5,000	-10,323	-9,322	-8,689
80% Exceedance	-6,368	-9,375	-9,631	-5,226	-5,000	-3,258	-2,124	-2,650	-5,000	-10,460	-9,828	-9,079
90% Exceedance	-7,724	-9,533	-9,800	-5,226	-5,000	-3,500	-2,318	-3,484	-5,000	-11,103	-10,360	-9,405
Full Simulation Period Averagea	-5,252	-7,111	-6,406	-3,965	-3,904	-2,427	-1,220	-1,976	-4,291	-8,247	-7,598	-7,159
Wet Water Years (32%)	-5,923	-8,705	-7,319	-2,461	-2,543	-907	-637	-1,617	-4,415	-8,094	-8,392	-8,052
Above Normal Water Years (15%)	-5,129	-8,769	-7,987	-4,331	-3,860	-2,741	-1,641	-2,199	-4,909	-9,312	-9,098	-8,693
Below Normal Water Years (17%)	-6,779	-7,346	-6,157	-4,685	-4,756	-3,270	-1,356	-2,277	-4,711	-10,472	-9,934	-8,163
Dry Water Years (22%)	-4,516	-5,626	-5,325	-5,036	-4,721	-3,304	-1,592	-2,225	-4,487	-8,892	-5,623	-6,293
Critical Water Years (15%)	-3,240	-3,950	-4,757	-4,407	-4,680	-3,108	-1,350	-1,806	-2,620	-3,949	-4,615	-3,817

Table 5B3-6-1c. Old and Middle River Flow, Alternative 1A 051722 minus No Action Alternative 051422, Monthly Flow (combined flows)(cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-547	-120	-26	0	0	-5	-55	481	-2	-218	-1,529	-739
20% Exceedance	-527	-546	-60	0	0	0	55	1	-5	-858	-832	-653
30% Exceedance	-498	-695	0	-2	0	0	-4	-4	0	-182	-851	-421
40% Exceedance	-537	-546	0	0	0	0	32	0	0	-499	-211	-511
50% Exceedance	-344	-952	0	0	0	0	49	0	0	-202	-157	-206
60% Exceedance	-257	-121	420	0	0	0	1	1	0	-149	-13	-37
70% Exceedance	-546	-16	331	0	0	0	-35	31	0	-162	-12	1
80% Exceedance	-58	-13	1	0	0	0	1	78	0	-26	-22	15
90% Exceedance	-158	0	0	0	0	0	7	0	0	-76	-77	6
Full Simulation Period Average[a]	-390	-280	24	-10	4	12	-13	25	-4	-294	-426	-284
Wet Water Years (32%)	-111	0	5	-3	8	57	20	-18	0	-19	5	-6
Above Normal Water Years (15%)	-67	-37	-7	0	19	4	-130	219	0	-38	-19	6
Below Normal Water Years (17%)	-351	-871	22	1	-1	0	-4	1	-36	-11	-75	-145
Dry Water Years (22%)	-907	-494	153	-19	-1	0	-2	-7	9	-765	-1,127	-739
Critical Water Years (15%)	-590	-118	-97	-31	-3	-42	5	-1	3	-772	-1,125	-652

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-6-2a. Old and Middle River Flow, No Action Alternative 051422, Monthly Flow (combined flows)(cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-2,713	-3,230	-3,857	-3,645	-3,397	-1,315	-574	-1,458	-1,895	-2,931	-3,147	-3,801
20% Exceedance	-3,335	-3,761	-4,760	-3,645	-4,464	-3,258	-952	-1,795	-3,699	-4,841	-4,455	-5,171
30% Exceedance	-3,978	-4,797	-5,290	-4,514	-4,464	-3,258	-1,102	-1,882	-4,468	-7,228	-5,064	-5,854
40% Exceedance	-4,255	-6,366	-5,290	-4,516	-4,464	-3,258	-1,267	-1,971	-5,000	-8,130	-6,839	-6,235
50% Exceedance	-4,785	-7,519	-5,290	-4,516	-4,464	-3,258	-1,465	-2,107	-5,000	-8,901	-7,602	-6,931
60% Exceedance	-5,115	-8,755	-6,690	-5,000	-4,483	-3,258	-1,629	-2,311	-5,000	-9,730	-8,923	-8,109
70% Exceedance	-5,296	-9,148	-9,345	-5,226	-4,483	-3,258	-1,931	-2,453	-5,000	-10,160	-9,309	-8,690
80% Exceedance	-6,310	-9,361	-9,632	-5,226	-5,000	-3,258	-2,125	-2,729	-5,000	-10,434	-9,807	-9,094
90% Exceedance	-7,565	-9,533	-9,800	-5,226	-5,000	-3,500	-2,325	-3,484	-5,000	-11,027	-10,283	-9,411
Full Simulation Period Average[a]	-4,861	-6,831	-6,430	-3,955	-3,909	-2,440	-1,207	-2,001	-4,287	-7,953	-7,172	-6,875
Wet Water Years (32%)	-5,812	-8,705	-7,325	-2,458	-2,551	-964	-657	-1,599	-4,415	-8,075	-8,397	-8,045
Above Normal Water Years (15%)	-5,063	-8,733	-7,980	-4,331	-3,879	-2,745	-1,510	-2,418	-4,909	-9,274	-9,078	-8,699
Below Normal Water Years (17%)	-6,428	-6,475	-6,179	-4,686	-4,755	-3,270	-1,352	-2,278	-4,676	-10,462	-9,859	-8,018
Dry Water Years (22%)	-3,609	-5,131	-5,478	-5,017	-4,720	-3,304	-1,590	-2,218	-4,496	-8,126	-4,495	-5,555
Critical Water Years (15%)	-2,649	-3,832	-4,660	-4,376	-4,676	-3,065	-1,354	-1,805	-2,623	-3,178	-3,490	-3,165

Table 5B3-6-2b. Old and Middle River Flow, Alternative 1B 051722, Monthly Flow (combined flows)(cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-3,381	-3,413	-3,594	-3,645	-3,397	-1,326	-629	-1,458	-1,885	-3,147	-4,654	-4,511
20% Exceedance	-3,882	-4,270	-4,785	-3,645	-4,464	-3,258	-897	-1,819	-3,756	-5,703	-5,085	-5,824
30% Exceedance	-4,370	-5,573	-5,244	-4,516	-4,464	-3,258	-1,092	-1,895	-4,468	-7,467	-5,729	-6,308
40% Exceedance	-4,784	-7,279	-5,290	-4,516	-4,464	-3,258	-1,242	-1,982	-5,000	-8,628	-7,066	-6,782
50% Exceedance	-5,122	-8,471	-5,290	-4,516	-4,464	-3,258	-1,416	-2,110	-5,000	-9,116	-7,849	-7,182
60% Exceedance	-5,462	-8,875	-5,942	-5,000	-4,483	-3,258	-1,628	-2,306	-5,000	-9,868	-8,936	-8,166
70% Exceedance	-5,834	-9,163	-9,078	-5,226	-4,483	-3,258	-1,966	-2,445	-5,000	-10,249	-9,335	-8,699
80% Exceedance	-6,599	-9,375	-9,620	-5,226	-5,000	-3,258	-2,126	-2,653	-5,000	-10,499	-9,858	-9,098
90% Exceedance	-7,814	-9,533	-9,746	-5,226	-5,000	-3,500	-2,318	-3,484	-5,000	-11,103	-10,347	-9,406
Full Simulation Period Average[a]	-5,269	-7,159	-6,268	-3,966	-3,903	-2,454	-1,220	-1,989	-4,290	-8,247	-7,580	-7,168
Wet Water Years (32%)	-5,937	-8,705	-7,310	-2,459	-2,552	-895	-635	-1,611	-4,415	-8,115	-8,417	-8,051
Above Normal Water Years (15%)	-5,191	-8,771	-7,993	-4,331	-3,819	-2,741	-1,646	-2,199	-4,898	-9,313	-9,108	-8,698
Below Normal Water Years (17%)	-6,782	-7,522	-6,190	-4,691	-4,756	-3,273	-1,357	-2,278	-4,703	-10,494	-9,940	-8,215
Dry Water Years (22%)	-4,576	-5,709	-4,687	-5,036	-4,722	-3,304	-1,590	-2,293	-4,509	-8,890	-5,521	-6,310
Critical Water Years (15%)	-3,176	-3,946	-4,749	-4,414	-4,691	-3,311	-1,346	-1,806	-2,602	-3,877	-4,572	-3,791

Table 5B3-6-2c. Old and Middle River Flow, Alternative 1B 051722 minus No Action Alternative 051422, Monthly Flow (combined flows)(cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-669	-183	264	0	0	-10	-55	0	9	-216	-1,507	-711
20% Exceedance	-547	-509	-25	0	0	0	55	-24	-57	-863	-630	-653
30% Exceedance	-392	-777	47	-2	0	0	10	-12	0	-238	-665	-454
40% Exceedance	-529	-913	0	0	0	0	24	-10	0	-499	-227	-547
50% Exceedance	-337	-952	0	0	0	0	49	-3	0	-214	-246	-251
60% Exceedance	-347	-120	748	0	0	0	1	4	0	-138	-13	-57
70% Exceedance	-538	-16	267	0	0	0	-35	9	0	-89	-26	-9
80% Exceedance	-289	-13	12	0	0	0	-1	76	0	-64	-51	-4
90% Exceedance	-249	0	54	0	0	0	7	0	0	-76	-64	5
Full Simulation Period Average[a]	-408	-328	161	-11	6	-14	-13	12	-3	-294	-408	-293
Wet Water Years (32%)	-124	0	14	-1	-2	68	22	-11	0	-40	-21	-5
Above Normal Water Years (15%)	-128	-38	-13	0	60	4	-136	219	11	-38	-30	1
Below Normal Water Years (17%)	-353	-1,047	-12	-5	-1	-3	-5	-1	-27	-32	-80	-197
Dry Water Years (22%)	-967	-578	792	-19	-2	0	0	-75	-14	-764	-1,026	-755
Critical Water Years (15%)	-527	-114	-89	-38	-15	-245	9	-1	21	-700	-1,082	-626

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-6-3a. Old and Middle River Flow, No Action Alternative 051422, Monthly Flow (combined flows)(cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-2,713	-3,230	-3,857	-3,645	-3,397	-1,315	-574	-1,458	-1,895	-2,931	-3,147	-3,801
20% Exceedance	-3,335	-3,761	-4,760	-3,645	-4,464	-3,258	-952	-1,795	-3,699	-4,841	-4,455	-5,171
30% Exceedance	-3,978	-4,797	-5,290	-4,514	-4,464	-3,258	-1,102	-1,882	-4,468	-7,228	-5,064	-5,854
40% Exceedance	-4,255	-6,366	-5,290	-4,516	-4,464	-3,258	-1,267	-1,971	-5,000	-8,130	-6,839	-6,235
50% Exceedance	-4,785	-7,519	-5,290	-4,516	-4,464	-3,258	-1,465	-2,107	-5,000	-8,901	-7,602	-6,931
60% Exceedance	-5,115	-8,755	-6,690	-5,000	-4,483	-3,258	-1,629	-2,311	-5,000	-9,730	-8,923	-8,109
70% Exceedance	-5,296	-9,148	-9,345	-5,226	-4,483	-3,258	-1,931	-2,453	-5,000	-10,160	-9,309	-8,690
80% Exceedance	-6,310	-9,361	-9,632	-5,226	-5,000	-3,258	-2,125	-2,729	-5,000	-10,434	-9,807	-9,094
90% Exceedance	-7,565	-9,533	-9,800	-5,226	-5,000	-3,500	-2,325	-3,484	-5,000	-11,027	-10,283	-9,411
Full Simulation Period Average[a]	-4,861	-6,831	-6,430	-3,955	-3,909	-2,440	-1,207	-2,001	-4,287	-7,953	-7,172	-6,875
Wet Water Years (32%)	-5,812	-8,705	-7,325	-2,458	-2,551	-964	-657	-1,599	-4,415	-8,075	-8,397	-8,045
Above Normal Water Years (15%)	-5,063	-8,733	-7,980	-4,331	-3,879	-2,745	-1,510	-2,418	-4,909	-9,274	-9,078	-8,699
Below Normal Water Years (17%)	-6,428	-6,475	-6,179	-4,686	-4,755	-3,270	-1,352	-2,278	-4,676	-10,462	-9,859	-8,018
Dry Water Years (22%)	-3,609	-5,131	-5,478	-5,017	-4,720	-3,304	-1,590	-2,218	-4,496	-8,126	-4,495	-5,555
Critical Water Years (15%)	-2,649	-3,832	-4,660	-4,376	-4,676	-3,065	-1,354	-1,805	-2,623	-3,178	-3,490	-3,165

Table 5B3-6-3b. Old and Middle River Flow, Alternative 2 051722, Monthly Flow (combined flows)(cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-3,268	-3,350	-3,834	-3,645	-3,397	-1,320	-629	-978	-1,897	-3,156	-4,674	-4,512
20% Exceedance	-3,864	-4,346	-4,824	-3,645	-4,464	-3,258	-897	-1,794	-3,706	-5,697	-5,117	-5,626
30% Exceedance	-4,476	-5,488	-5,290	-4,516	-4,464	-3,258	-1,106	-1,886	-4,468	-7,410	-5,920	-6,274
40% Exceedance	-4,770	-6,915	-5,290	-4,516	-4,464	-3,258	-1,235	-1,971	-5,000	-8,628	-6,929	-6,744
50% Exceedance	-5,086	-8,471	-5,290	-4,516	-4,464	-3,258	-1,416	-2,107	-5,000	-9,118	-7,759	-7,183
60% Exceedance	-5,357	-8,875	-6,235	-5,000	-4,483	-3,258	-1,629	-2,309	-5,000	-9,910	-8,936	-8,073
70% Exceedance	-5,826	-9,163	-9,013	-5,226	-4,483	-3,258	-1,965	-2,422	-5,000	-10,322	-9,355	-8,689
80% Exceedance	-6,368	-9,375	-9,631	-5,226	-5,000	-3,258	-2,124	-2,650	-5,000	-10,460	-9,828	-9,079
90% Exceedance	-7,690	-9,533	-9,800	-5,226	-5,000	-3,500	-2,318	-3,484	-5,000	-11,103	-10,360	-9,405
Full Simulation Period Average[a]	-5,227	-7,105	-6,398	-3,965	-3,902	-2,428	-1,221	-1,976	-4,291	-8,248	-7,583	-7,127
Wet Water Years (32%)	-5,908	-8,705	-7,319	-2,460	-2,537	-906	-637	-1,617	-4,415	-8,094	-8,392	-8,052
Above Normal Water Years (15%)	-5,130	-8,770	-7,986	-4,331	-3,860	-2,741	-1,649	-2,199	-4,909	-9,312	-9,097	-8,693
Below Normal Water Years (17%)	-6,750	-7,345	-6,153	-4,685	-4,756	-3,270	-1,355	-2,277	-4,708	-10,510	-9,974	-8,138
Dry Water Years (22%)	-4,486	-5,581	-5,327	-5,037	-4,721	-3,304	-1,592	-2,225	-4,487	-8,891	-5,616	-6,234
Critical Water Years (15%)	-3,186	-3,979	-4,707	-4,410	-4,680	-3,119	-1,350	-1,807	-2,623	-3,916	-4,475	-3,715

Table 5B3-6-3c. Old and Middle River Flow, Alternative 2 051722 minus No Action Alternative 051422, Monthly Flow (combined flows)(cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-555	-121	23	0	0	-4	-55	481	-2	-225	-1,527	-711
20% Exceedance	-529	-584	-64	0	0	0	55	1	-6	-856	-662	-455
30% Exceedance	-498	-691	0	-2	0	0	-4	-3	0	-182	-856	-421
40% Exceedance	-515	-549	0	0	0	0	32	0	0	-499	-90	-509
50% Exceedance	-302	-952	0	0	0	0	49	0	0	-217	-157	-251
60% Exceedance	-242	-120	455	0	0	0	1	1	0	-180	-13	36
70% Exceedance	-530	-16	331	0	0	0	-35	31	0	-162	-46	1
80% Exceedance	-58	-13	1	0	0	0	1	78	0	-26	-22	15
90% Exceedance	-125	0	0	0	0	0	7	0	0	-76	-77	6
Full Simulation Period Average[a]	-366	-274	31	-10	6	11	-14	25	-4	-296	-411	-252
Wet Water Years (32%)	-96	0	5	-2	14	58	20	-18	0	-19	5	-7
Above Normal Water Years (15%)	-67	-37	-6	0	20	4	-138	219	0	-38	-19	6
Below Normal Water Years (17%)	-322	-869	25	1	-1	1	-3	1	-32	-48	-115	-120
Dry Water Years (22%)	-877	-450	151	-20	-1	0	-2	-7	8	-765	-1,120	-680
Critical Water Years (15%)	-536	-147	-47	-34	-4	-54	4	-2	0	-739	-985	-550

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-6-4a. Old and Middle River Flow, No Action Alternative 051422, Monthly Flow (combined flows)(cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-2,713	-3,230	-3,857	-3,645	-3,397	-1,315	-574	-1,458	-1,895	-2,931	-3,147	-3,801
20% Exceedance	-3,335	-3,761	-4,760	-3,645	-4,464	-3,258	-952	-1,795	-3,699	-4,841	-4,455	-5,171
30% Exceedance	-3,978	-4,797	-5,290	-4,514	-4,464	-3,258	-1,102	-1,882	-4,468	-7,228	-5,064	-5,854
40% Exceedance	-4,255	-6,366	-5,290	-4,516	-4,464	-3,258	-1,267	-1,971	-5,000	-8,130	-6,839	-6,235
50% Exceedance	-4,785	-7,519	-5,290	-4,516	-4,464	-3,258	-1,465	-2,107	-5,000	-8,901	-7,602	-6,931
60% Exceedance	-5,115	-8,755	-6,690	-5,000	-4,483	-3,258	-1,629	-2,311	-5,000	-9,730	-8,923	-8,109
70% Exceedance	-5,296	-9,148	-9,345	-5,226	-4,483	-3,258	-1,931	-2,453	-5,000	-10,160	-9,309	-8,690
80% Exceedance	-6,310	-9,361	-9,632	-5,226	-5,000	-3,258	-2,125	-2,729	-5,000	-10,434	-9,807	-9,094
90% Exceedance	-7,565	-9,533	-9,800	-5,226	-5,000	-3,500	-2,325	-3,484	-5,000	-11,027	-10,283	-9,411
Full Simulation Period Average[a]	-4,861	-6,831	-6,430	-3,955	-3,909	-2,440	-1,207	-2,001	-4,287	-7,953	-7,172	-6,875
Wet Water Years (32%)	-5,812	-8,705	-7,325	-2,458	-2,551	-964	-657	-1,599	-4,415	-8,075	-8,397	-8,045
Above Normal Water Years (15%)	-5,063	-8,733	-7,980	-4,331	-3,879	-2,745	-1,510	-2,418	-4,909	-9,274	-9,078	-8,699
Below Normal Water Years (17%)	-6,428	-6,475	-6,179	-4,686	-4,755	-3,270	-1,352	-2,278	-4,676	-10,462	-9,859	-8,018
Dry Water Years (22%)	-3,609	-5,131	-5,478	-5,017	-4,720	-3,304	-1,590	-2,218	-4,496	-8,126	-4,495	-5,555
Critical Water Years (15%)	-2,649	-3,832	-4,660	-4,376	-4,676	-3,065	-1,354	-1,805	-2,623	-3,178	-3,490	-3,165

Table 5B3-6-4b. Old and Middle River Flow, Alternative 3 051722, Monthly Flow (combined flows)(cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-3,021	-3,325	-3,908	-3,645	-3,397	-1,332	-326	-1,501	-1,849	-3,399	-4,197	-4,350
20% Exceedance	-3,817	-4,505	-4,860	-3,645	-4,464	-3,258	-897	-1,819	-3,927	-5,706	-5,024	-5,663
30% Exceedance	-4,274	-5,462	-5,290	-4,516	-4,464	-3,258	-1,082	-1,904	-4,468	-7,484	-5,706	-6,191
40% Exceedance	-4,735	-6,940	-5,290	-4,516	-4,464	-3,258	-1,242	-1,987	-5,000	-8,566	-7,029	-6,633
50% Exceedance	-5,107	-8,576	-5,290	-4,516	-4,464	-3,258	-1,418	-2,121	-5,000	-9,228	-7,856	-7,108
60% Exceedance	-5,403	-8,882	-6,625	-5,000	-4,483	-3,258	-1,626	-2,308	-5,000	-9,839	-8,936	-8,146
70% Exceedance	-5,846	-9,188	-8,945	-5,226	-4,483	-3,258	-1,963	-2,499	-5,000	-10,263	-9,314	-8,725
80% Exceedance	-6,641	-9,384	-9,633	-5,226	-5,000	-3,258	-2,122	-2,730	-5,000	-10,456	-9,858	-9,150
90% Exceedance	-8,099	-9,541	-9,800	-5,226	-5,000	-3,500	-2,318	-3,484	-5,000	-11,011	-10,218	-9,406
Full Simulation Period Average[a]	-5,247	-7,144	-6,343	-3,963	-3,904	-2,449	-1,166	-2,017	-4,287	-8,251	-7,518	-7,089
Wet Water Years (32%)	-5,978	-8,706	-7,328	-2,459	-2,535	-870	-542	-1,600	-4,415	-8,119	-8,410	-8,055
Above Normal Water Years (15%)	-5,438	-8,917	-7,936	-4,331	-3,812	-2,746	-1,445	-2,400	-4,898	-9,319	-9,085	-8,696
Below Normal Water Years (17%)	-6,457	-7,125	-6,459	-4,699	-4,756	-3,271	-1,358	-2,272	-4,689	-10,453	-9,920	-8,171
Dry Water Years (22%)	-4,532	-5,860	-4,784	-5,047	-4,759	-3,305	-1,610	-2,303	-4,531	-8,979	-5,436	-6,195
Critical Water Years (15%)	-3,132	-3,932	-4,821	-4,370	-4,684	-3,326	-1,351	-1,811	-2,567	-3,807	-4,337	-3,467

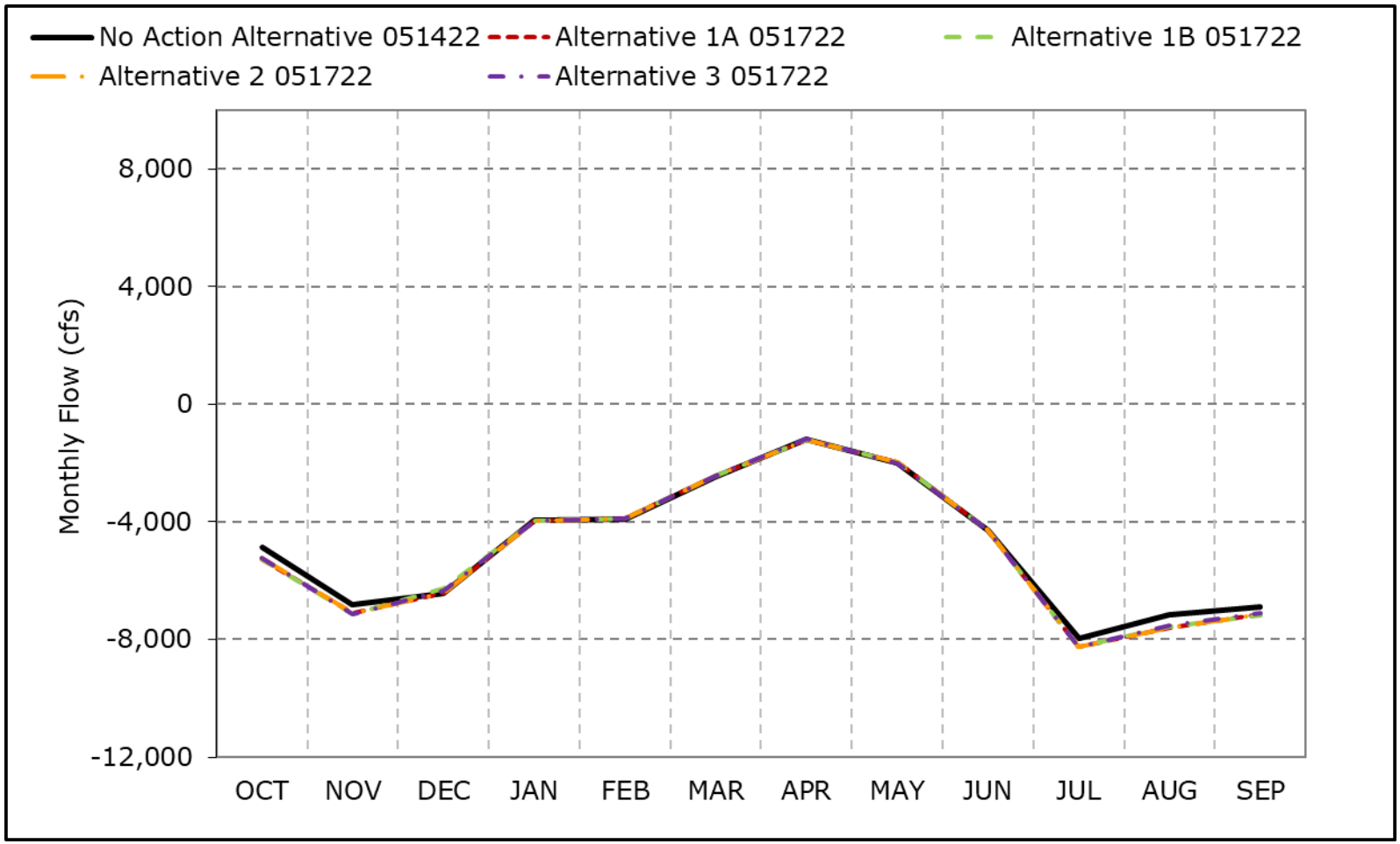
Table 5B3-6-4c. Old and Middle River Flow, Alternative 3 051722 minus No Action Alternative 051422, Monthly Flow (combined flows)(cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-309	-95	-51	0	0	-16	248	-43	46	-468	-1,050	-550
20% Exceedance	-482	-744	-100	0	0	0	55	-24	-227	-866	-569	-492
30% Exceedance	-295	-665	0	-2	0	0	19	-21	0	-256	-642	-337
40% Exceedance	-480	-574	0	0	0	0	24	-15	0	-436	-190	-398
50% Exceedance	-322	-1,057	0	0	0	0	48	-14	0	-326	-253	-177
60% Exceedance	-288	-127	65	0	0	0	3	2	0	-109	-13	-37
70% Exceedance	-549	-40	400	0	0	0	-33	-46	0	-102	-4	-35
80% Exceedance	-331	-23	-1	0	0	0	4	-1	0	-22	-51	-56
90% Exceedance	-534	-9	0	0	0	0	7	0	0	16	66	6
Full Simulation Period Average[a]	-385	-313	86	-8	5	-9	41	-16	0	-298	-346	-213
Wet Water Years (32%)	-165	-1	-3	-1	15	94	115	-1	0	-43	-14	-10
Above Normal Water Years (15%)	-375	-184	44	0	67	-1	66	18	11	-45	-7	3
Below Normal Water Years (17%)	-29	-650	-281	-13	-1	-1	-6	6	-13	9	-60	-152
Dry Water Years (22%)	-922	-729	694	-30	-39	0	-21	-85	-36	-852	-940	-640
Critical Water Years (15%)	-483	-100	-161	6	-8	-261	3	-6	56	-629	-847	-302

[a] Based on the 82-year simulation period.

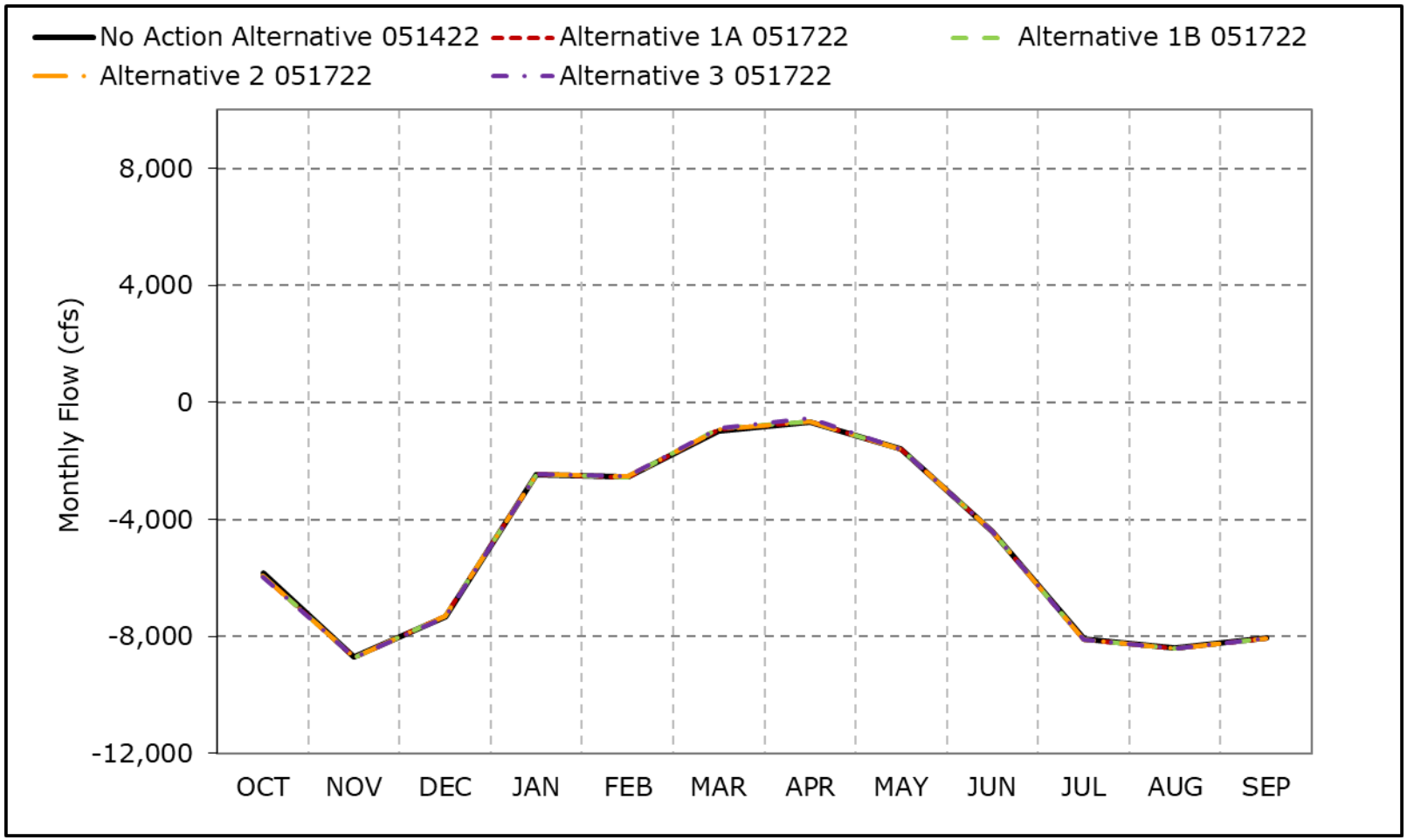
* All scenarios are simulated at current climate condition and 0 cm sea level rise.
* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* Water Year Types results are displayed with calendar year - year type sorting.

Figure 5B3-6-1. Old and Middle River Flow, Long-Term Average Flow



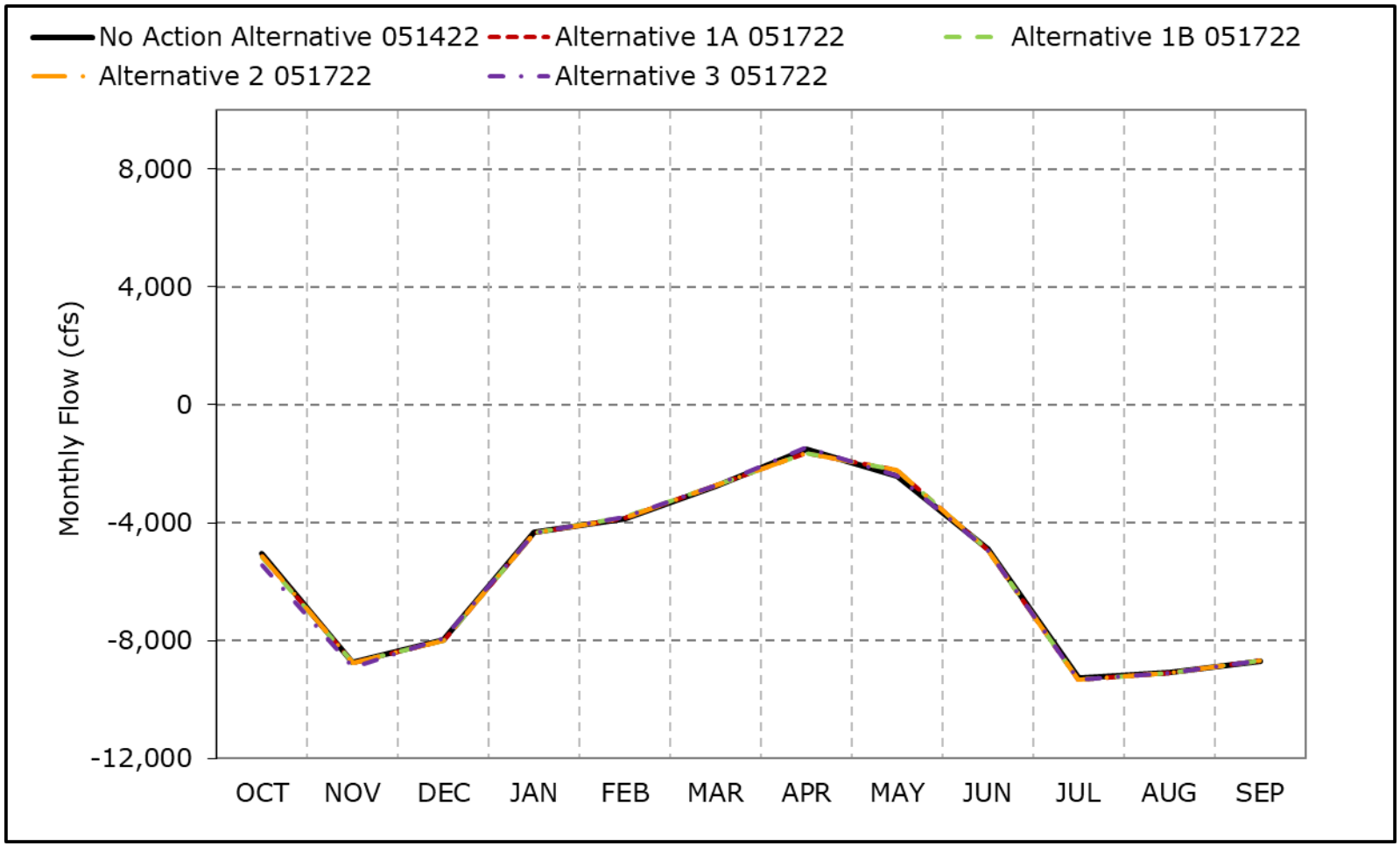
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-6-2. Old and Middle River Flow, Wet Year Average Flow



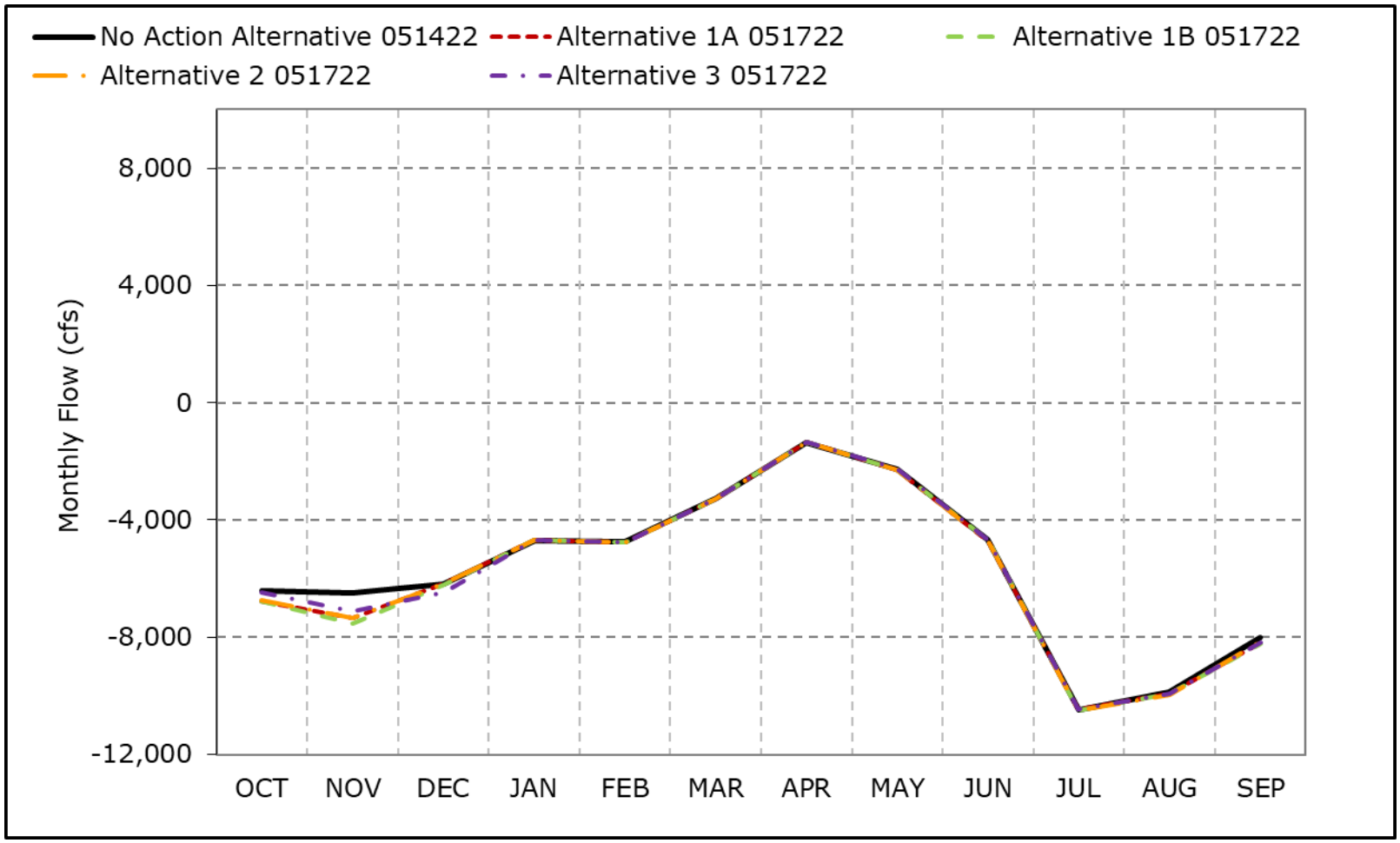
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-6-3. Old and Middle River Flow, Above Normal Year Average Flow



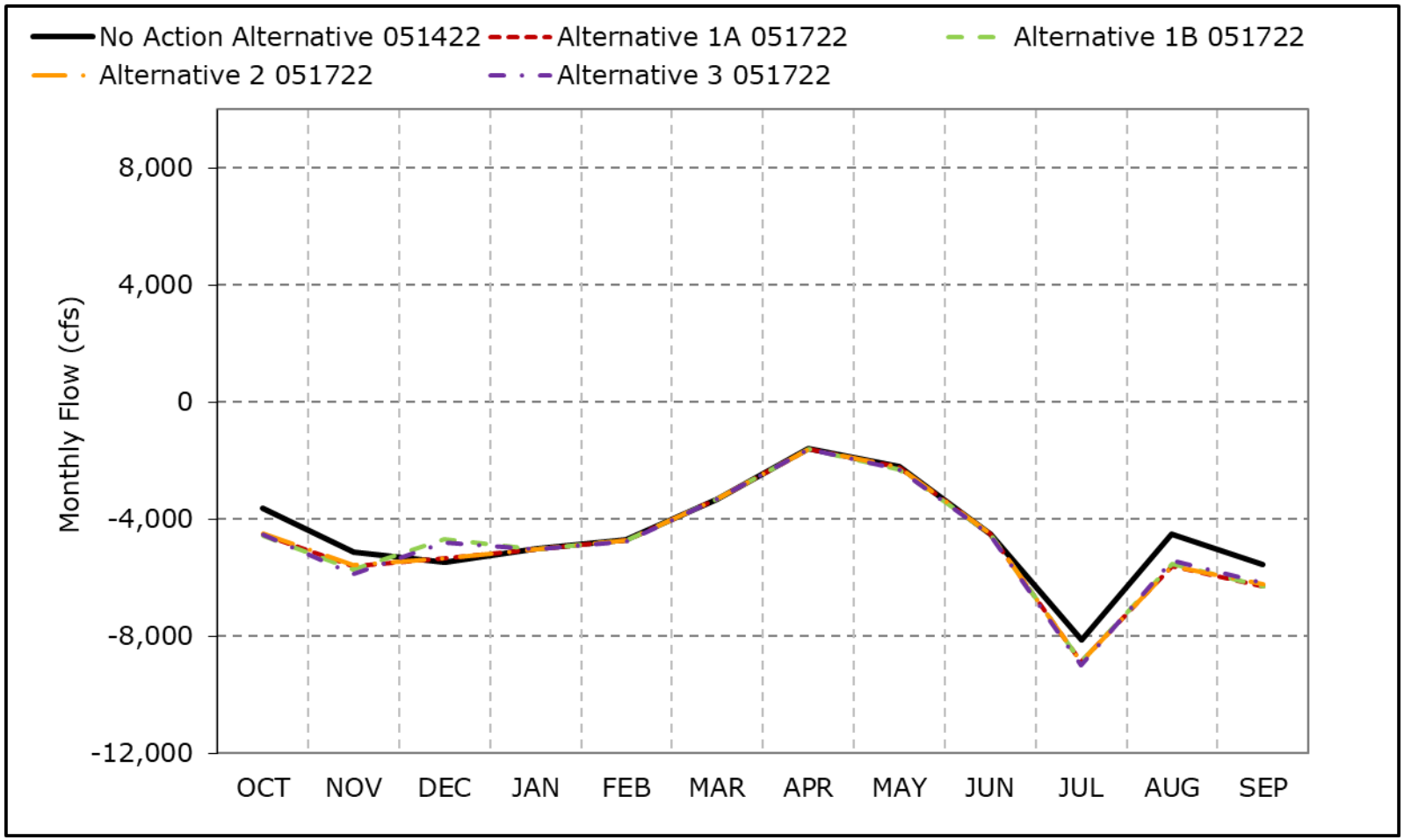
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-6-4. Old and Middle River Flow, Below Normal Year Average Flow



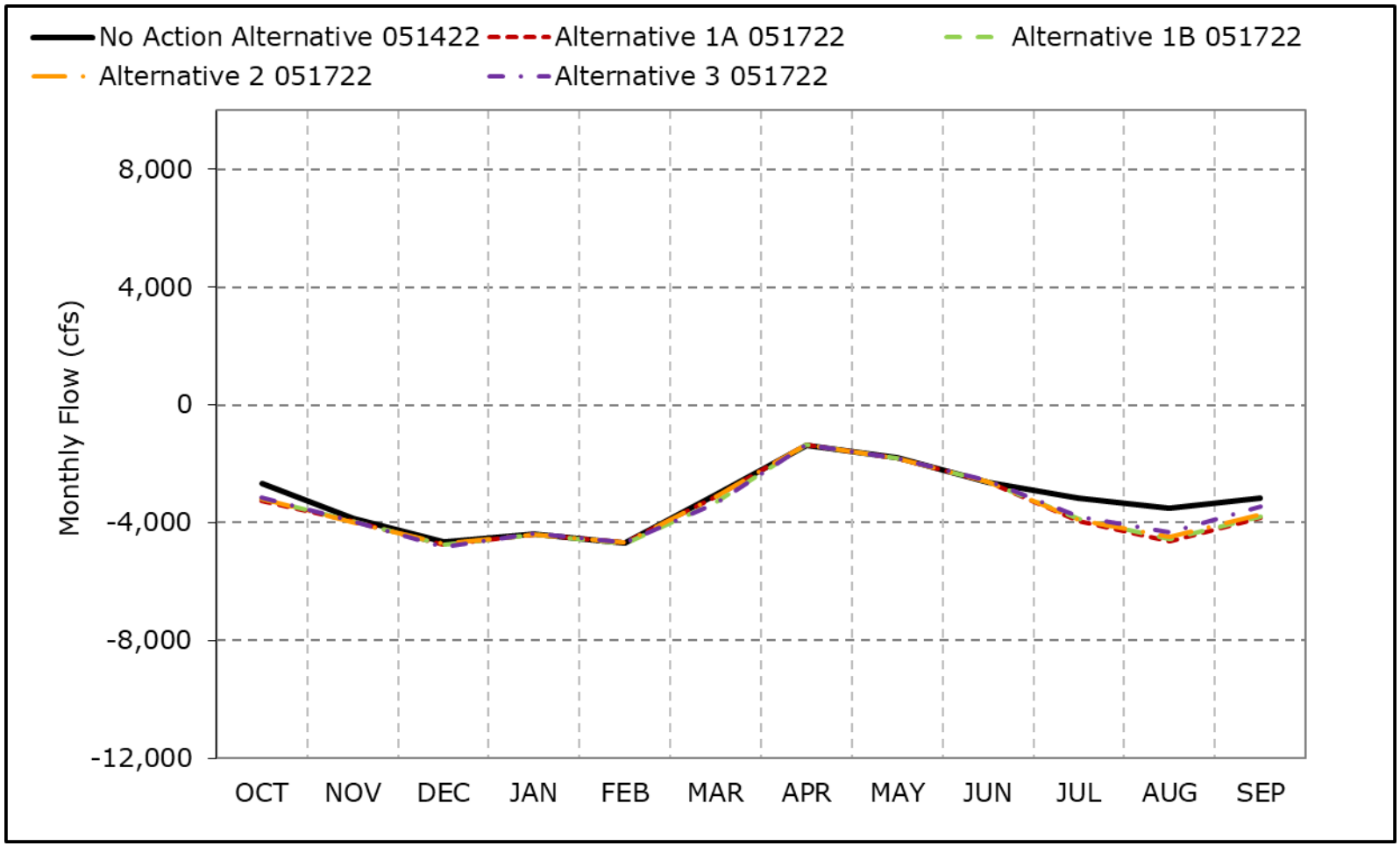
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-6-5. Old and Middle River Flow, Dry Year Average Flow



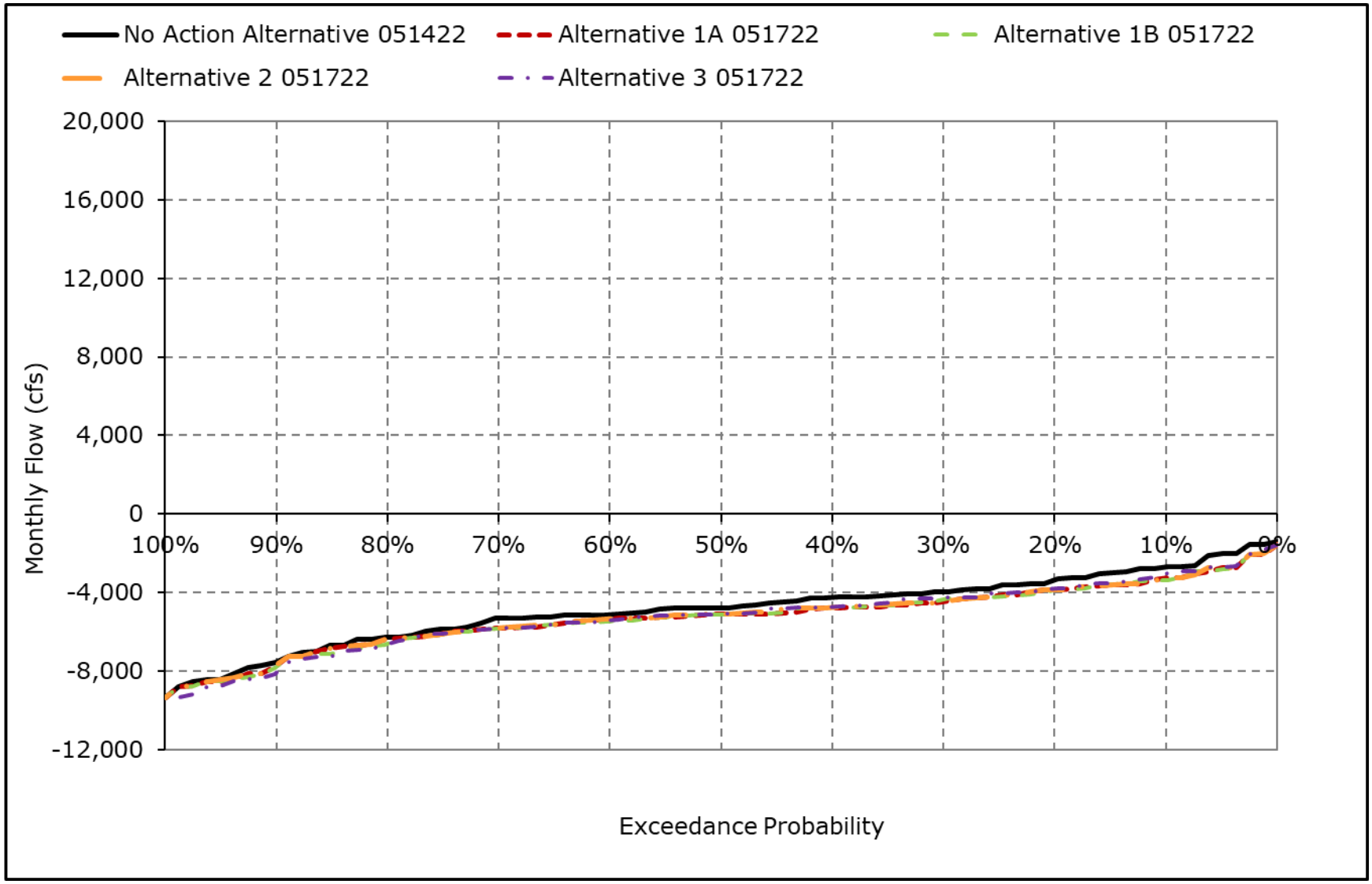
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-6-6. Old and Middle River Flow, Critical Year Average Flow



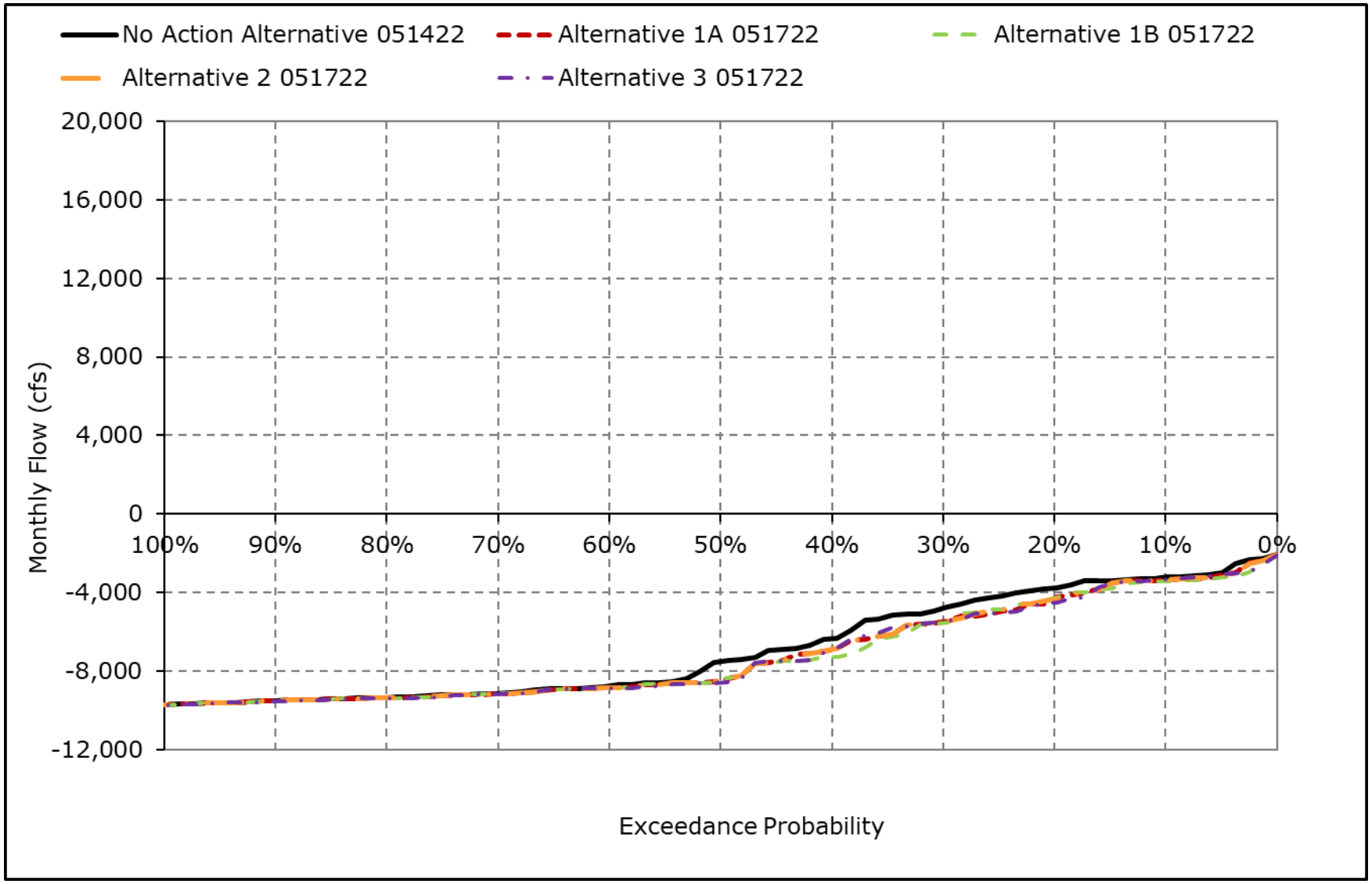
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-6-7. Old and Middle River Flow, October



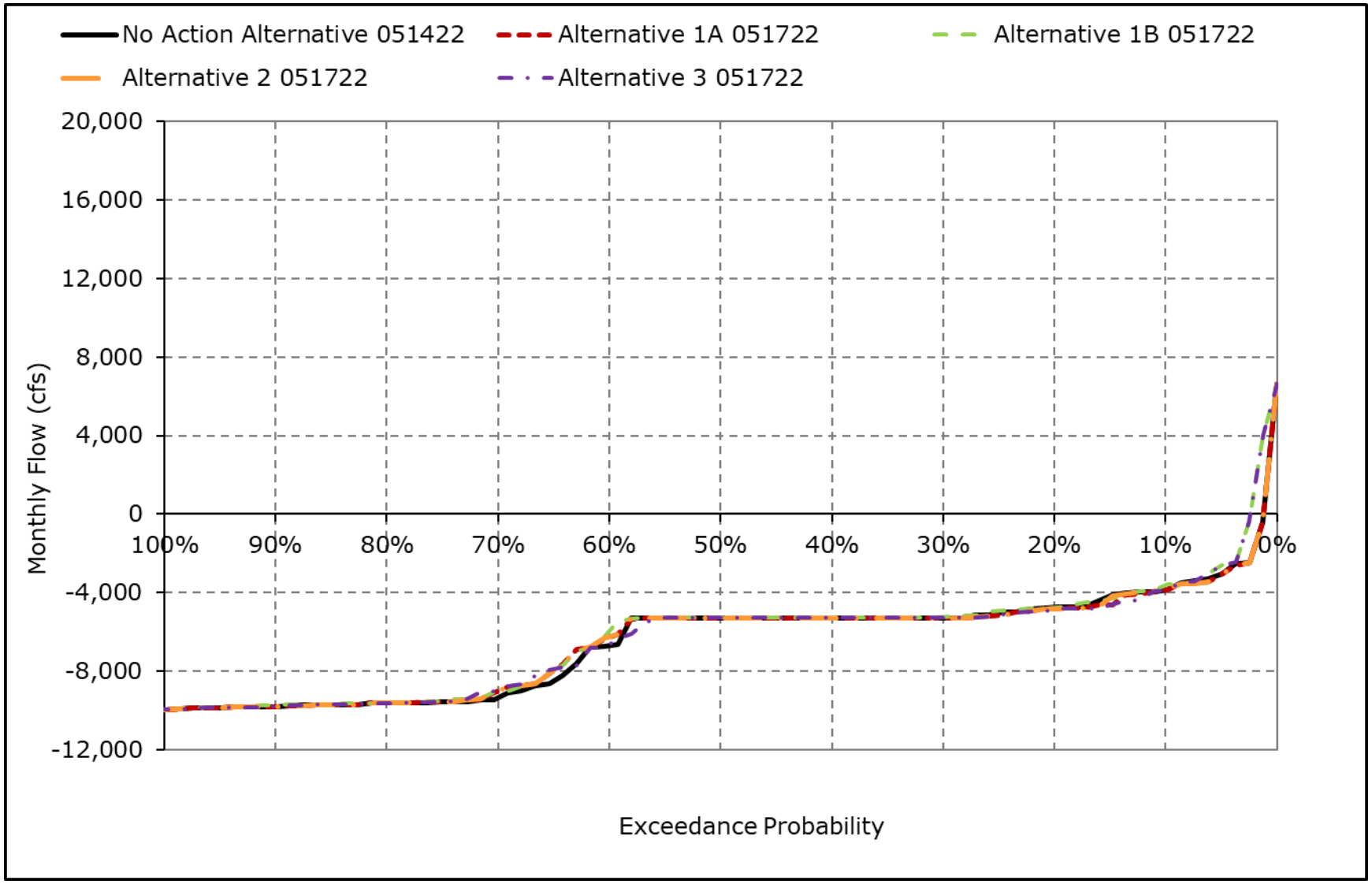
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-6-8. Old and Middle River Flow, November



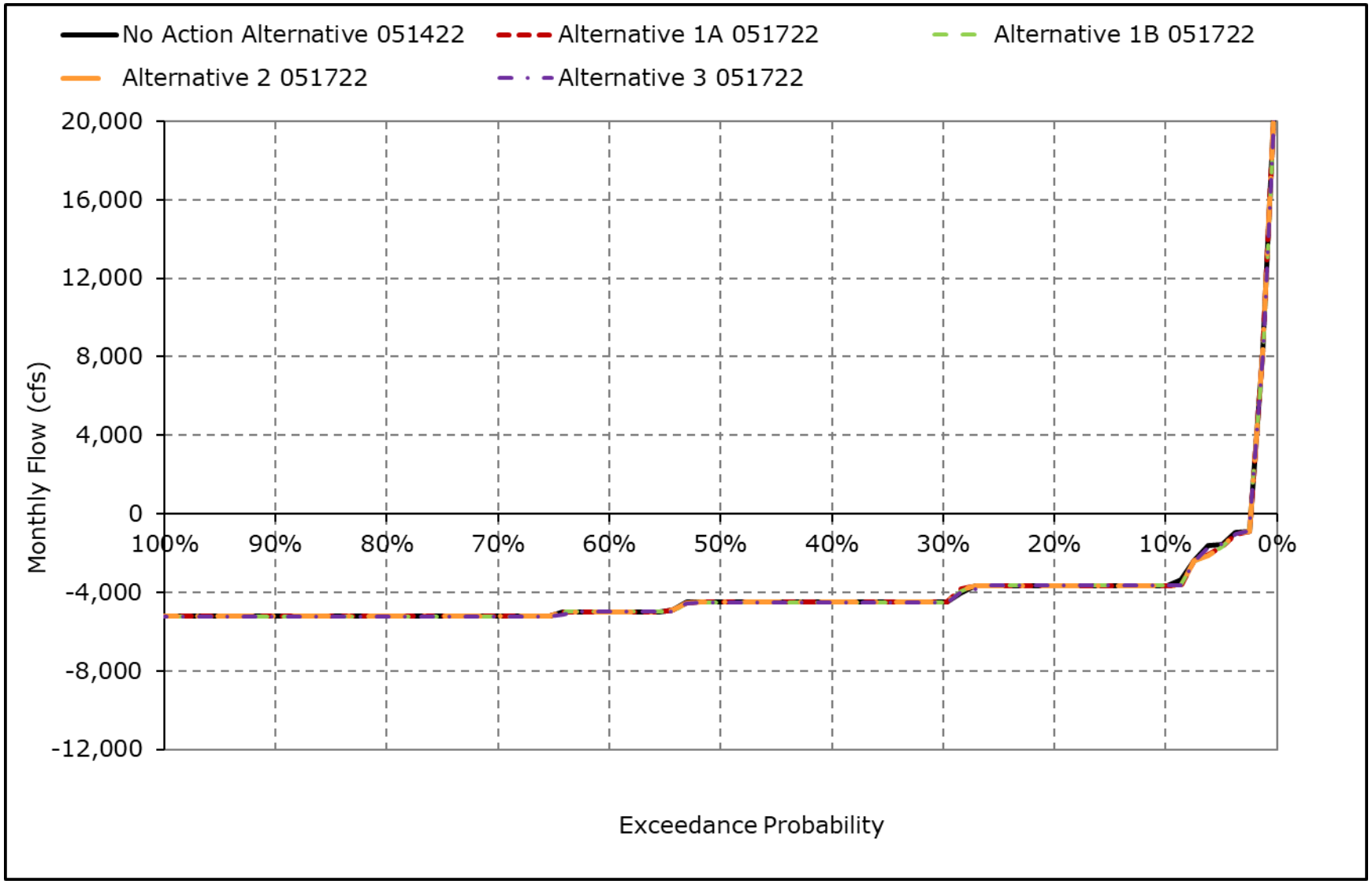
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-6-9. Old and Middle River Flow, December



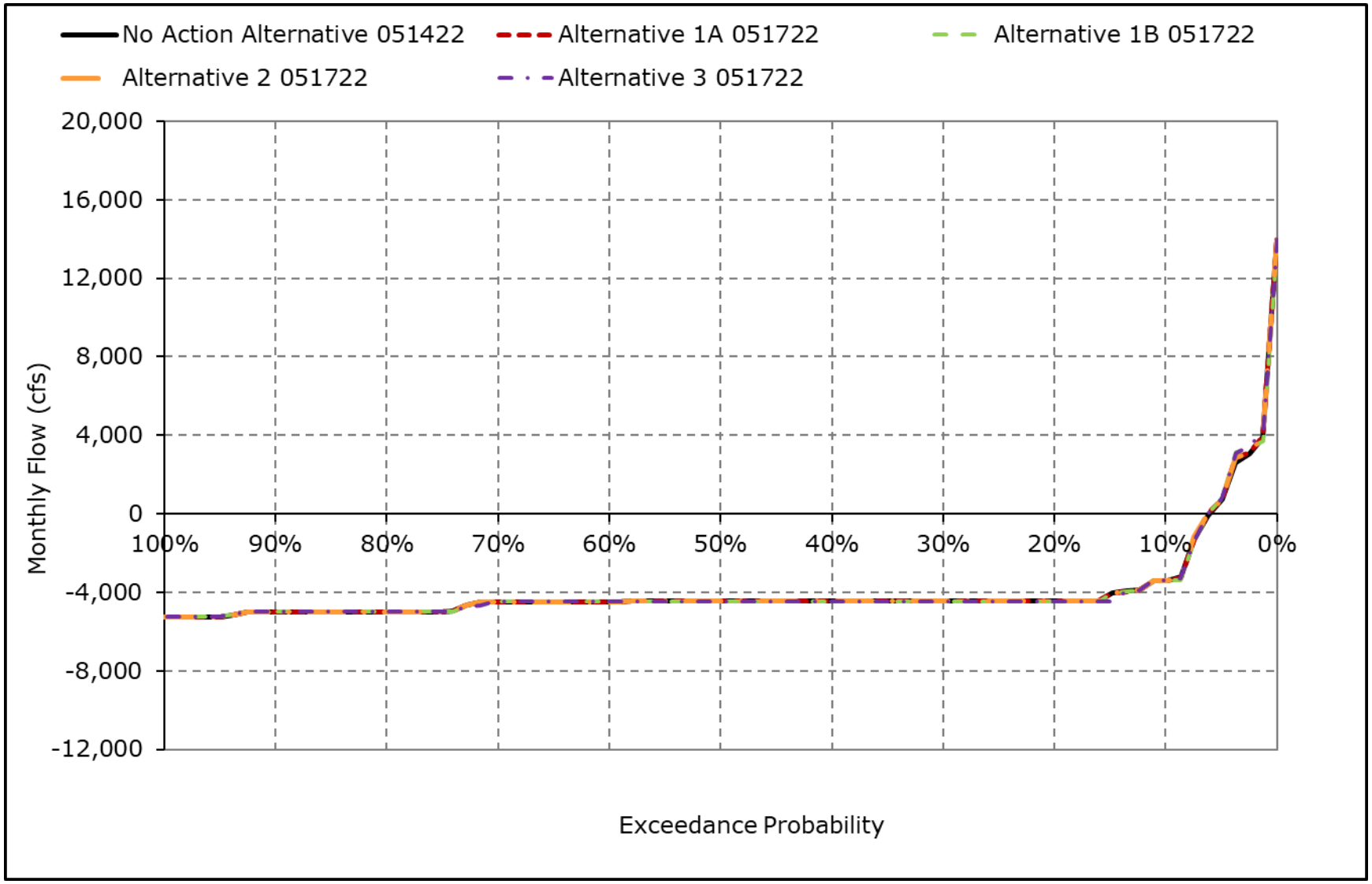
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-6-10. Old and Middle River Flow, January



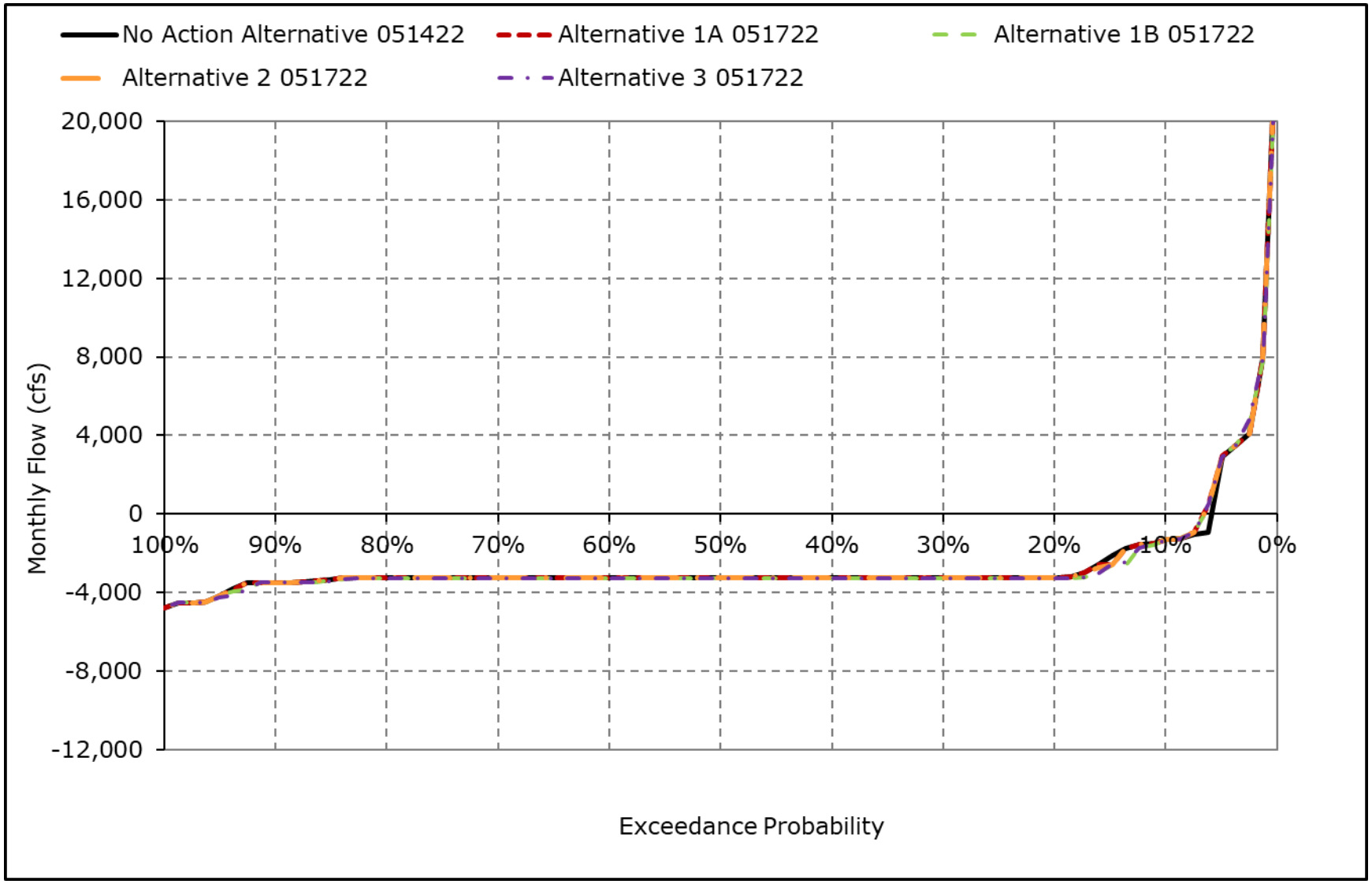
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-6-11. Old and Middle River Flow, February



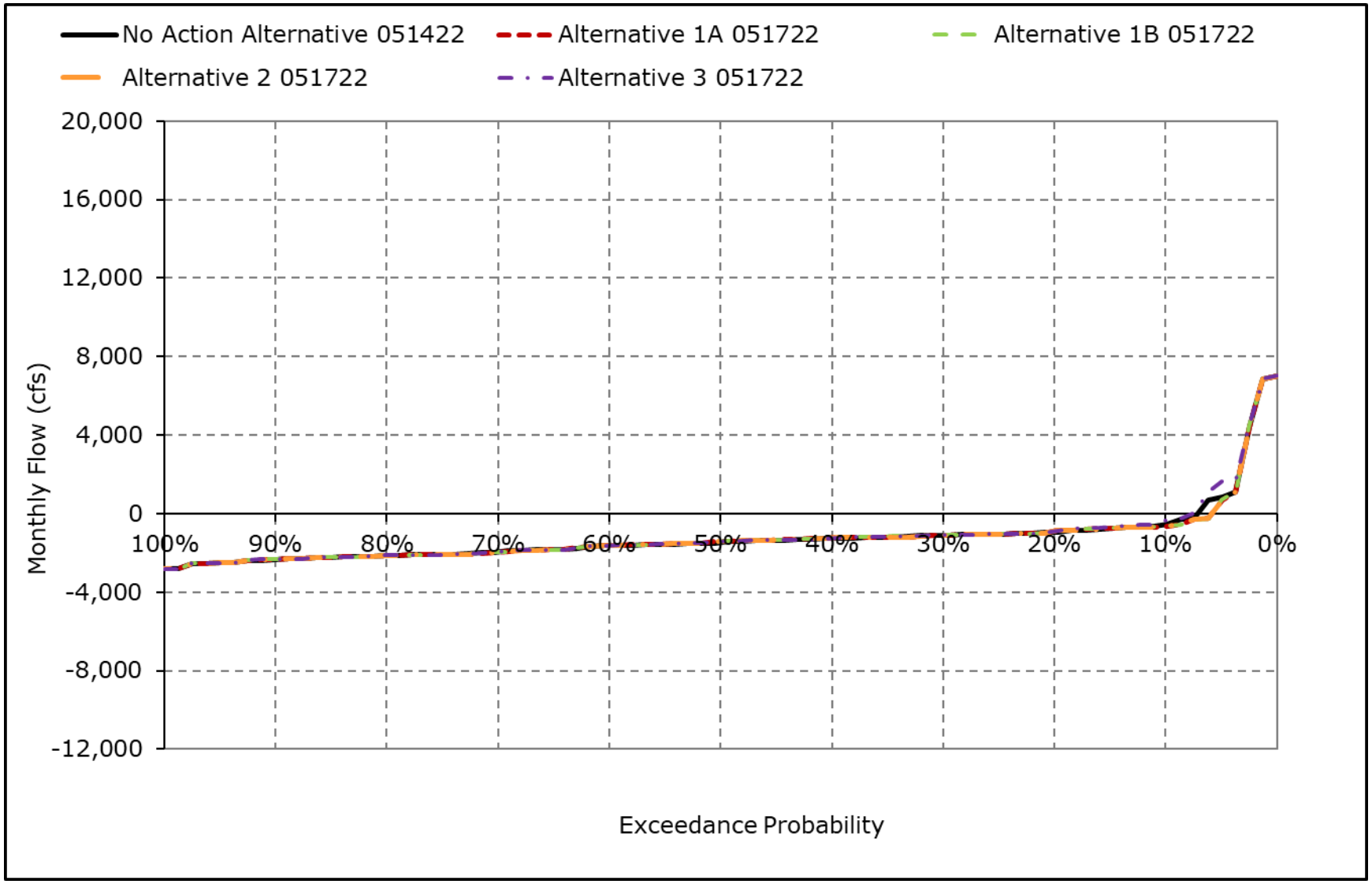
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-6-12. Old and Middle River Flow, March



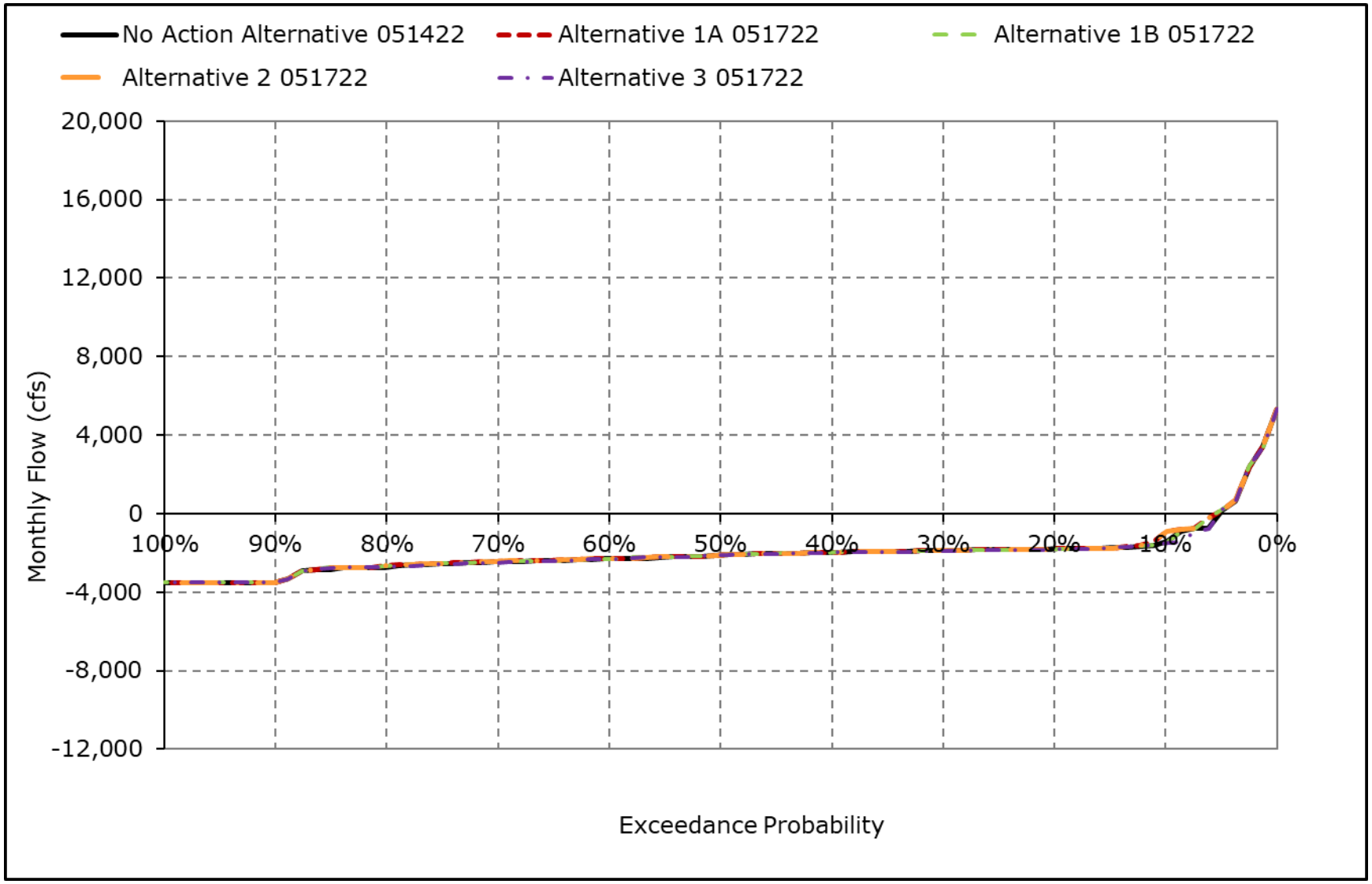
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-6-13. Old and Middle River Flow, April



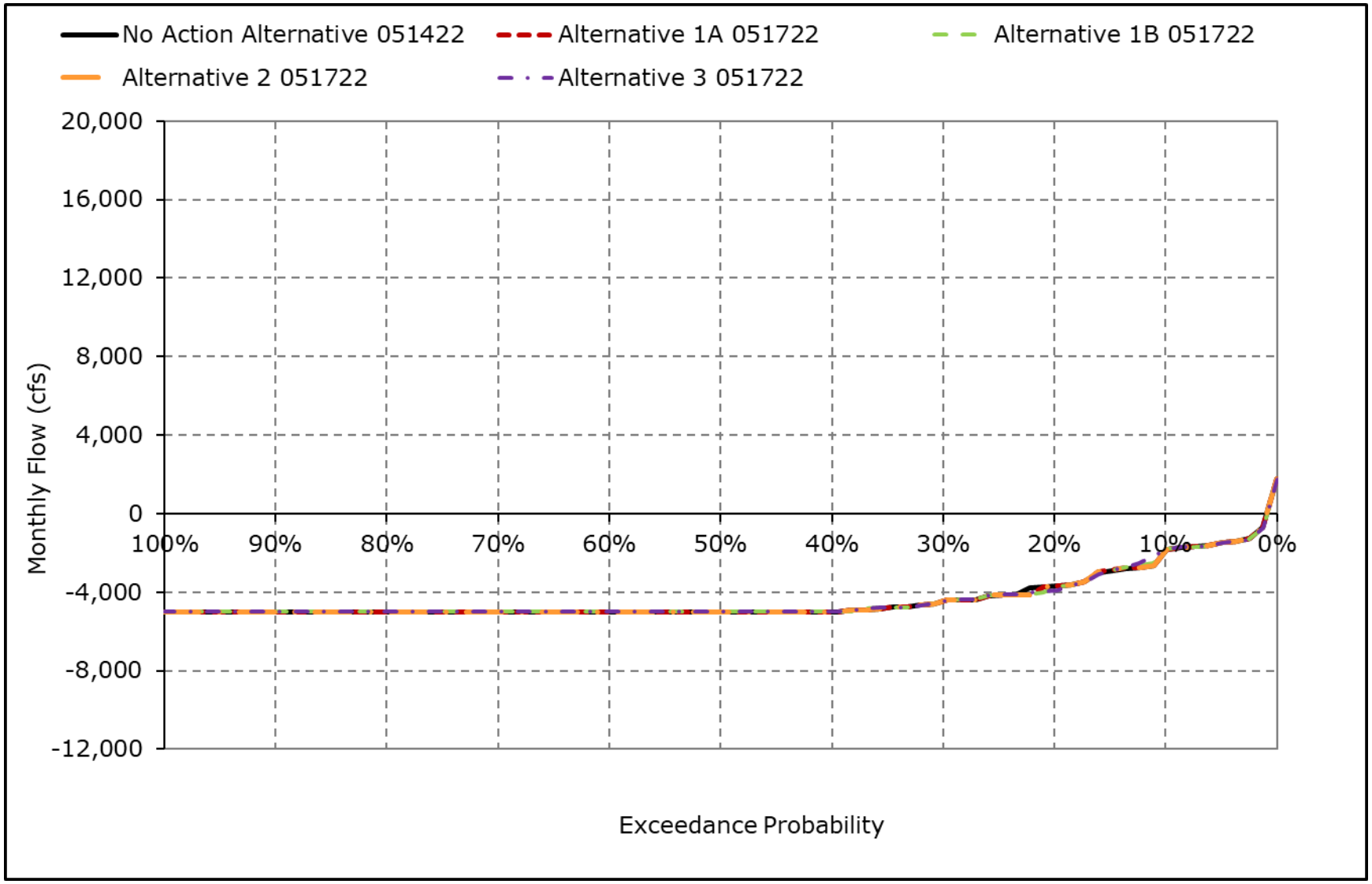
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-6-14. Old and Middle River Flow, May



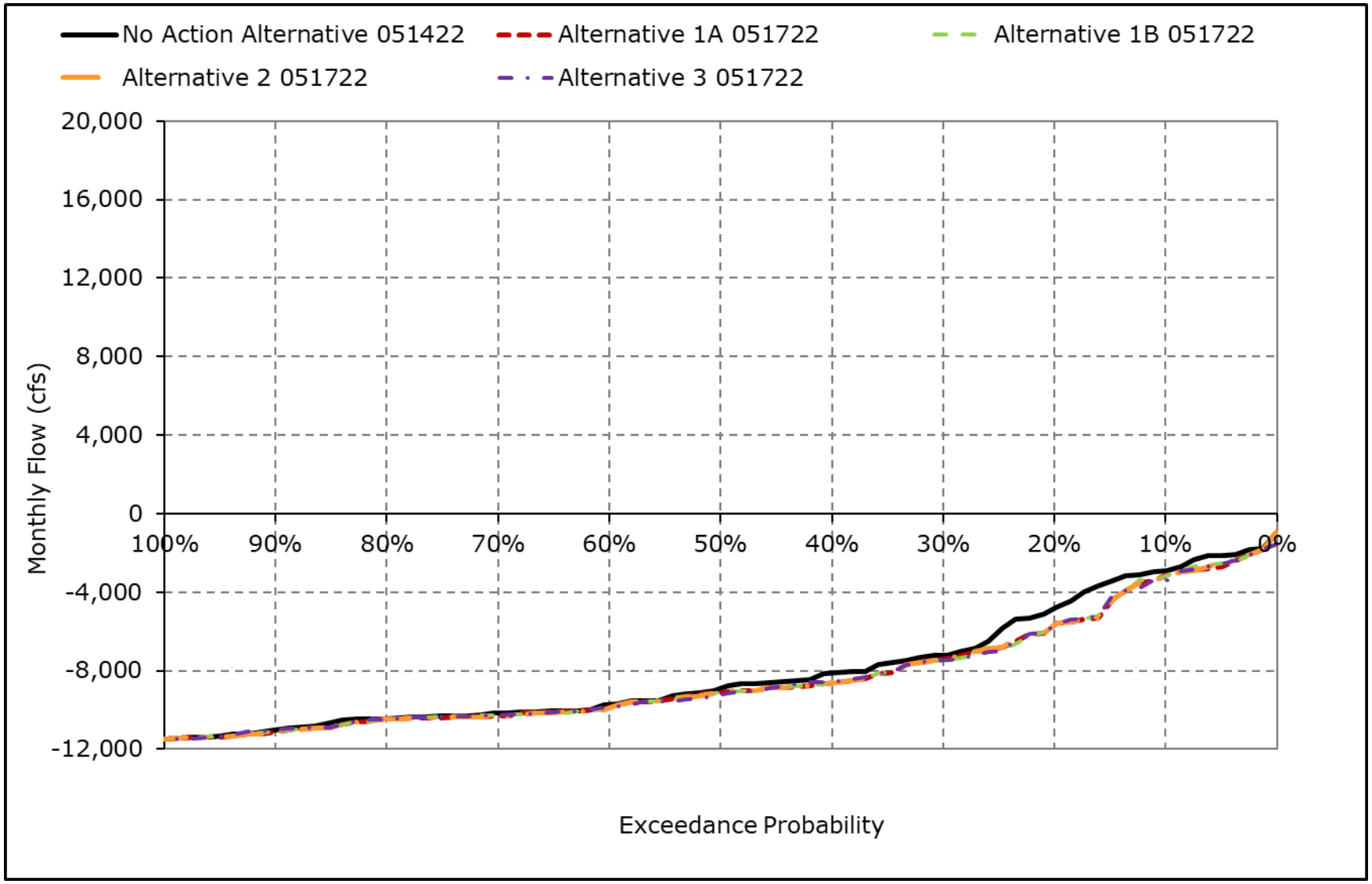
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-6-15. Old and Middle River Flow, June



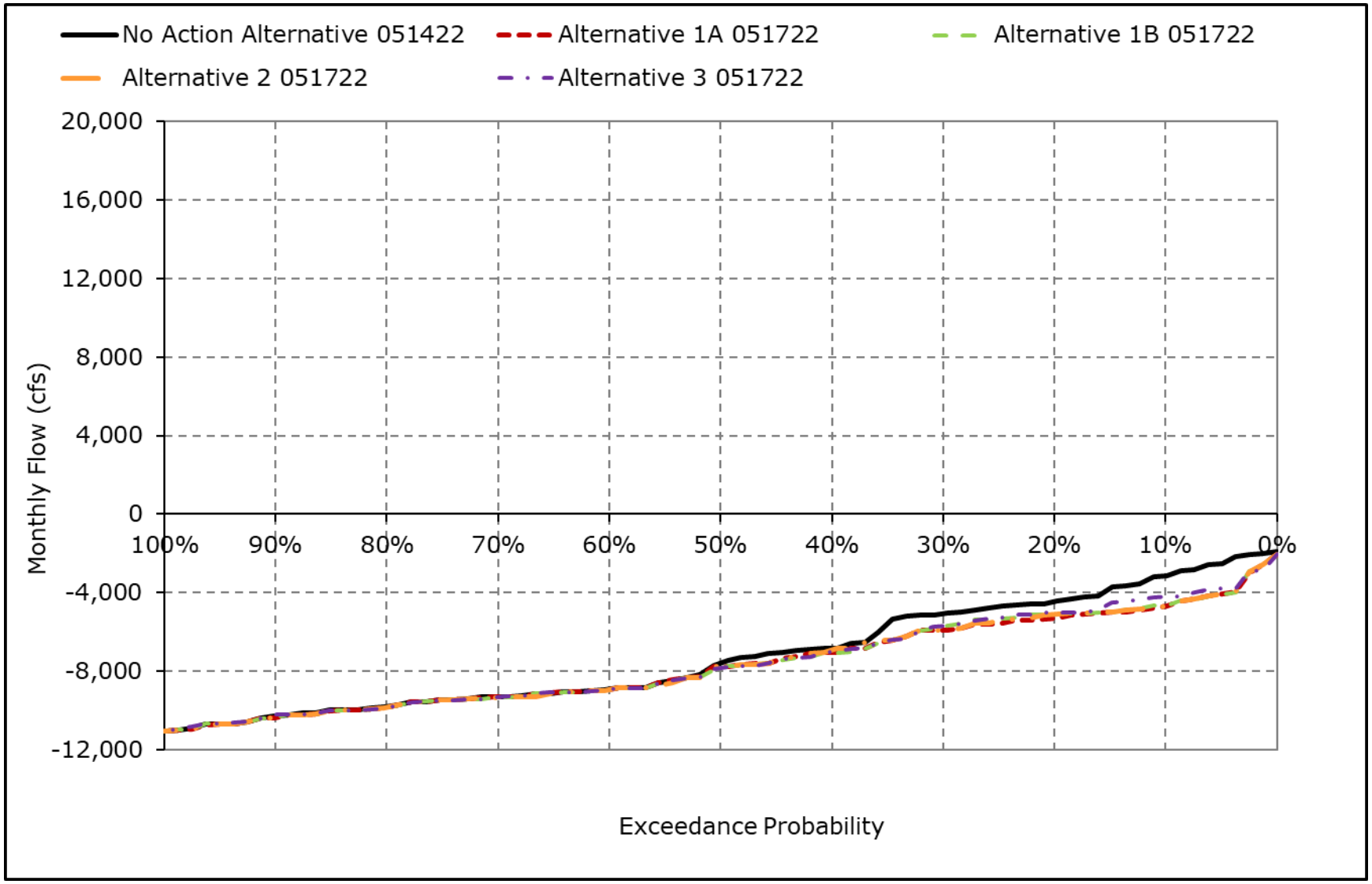
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-6-16. Old and Middle River Flow, July



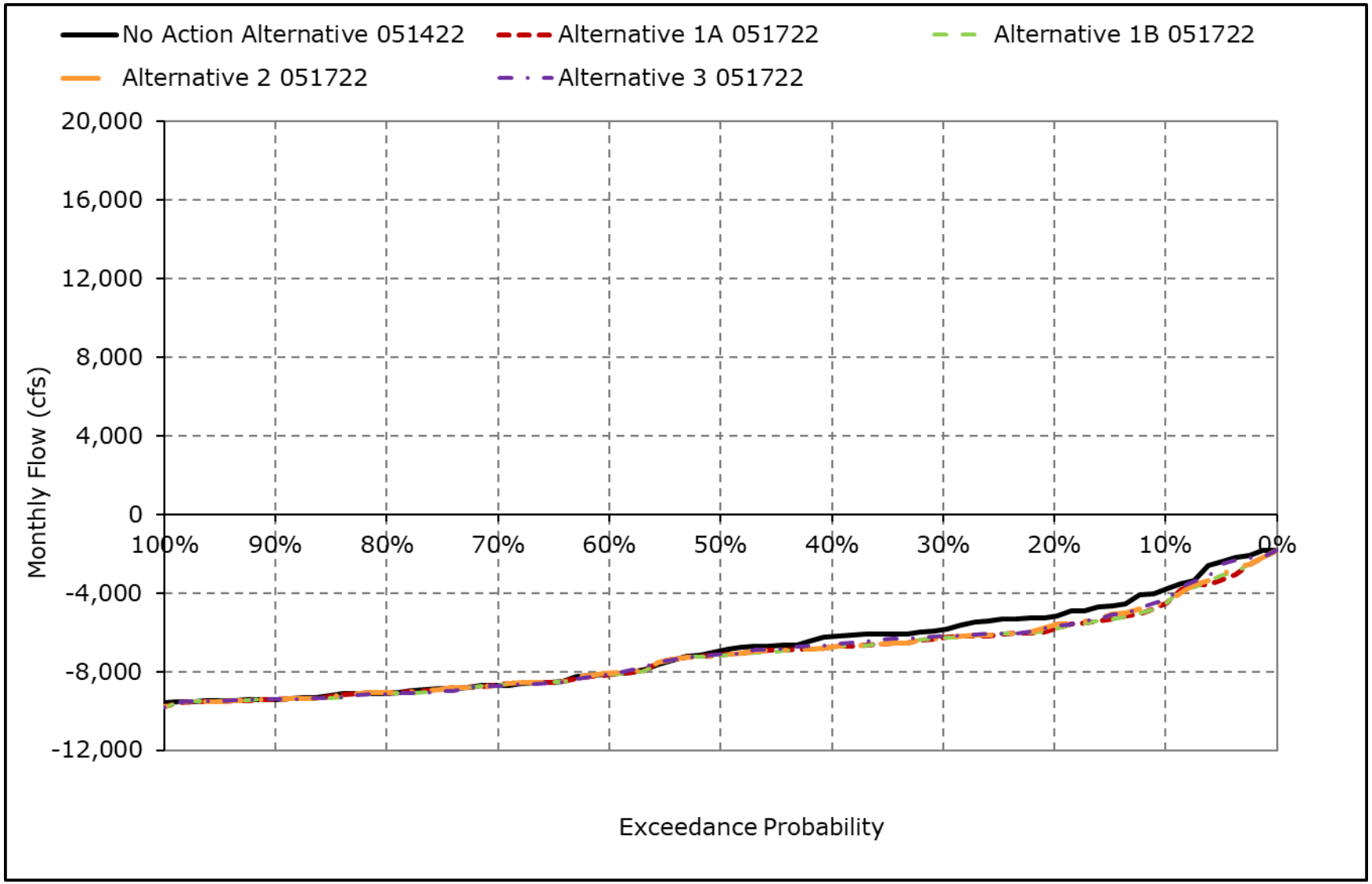
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-6-17. Old and Middle River Flow, August



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-6-18. Old and Middle River Flow, September



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 5B3-7-1a. San Joaquin River at Vernalis, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,290	2,898	4,217	10,826	13,951	14,996	13,638	12,723	12,058	7,285	3,349	3,276
20% Exceedance	2,913	2,582	2,710	5,216	9,726	9,482	10,138	7,705	7,680	3,691	2,800	2,724
30% Exceedance	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,662	3,179	2,643	2,484	2,532
40% Exceedance	2,622	2,006	2,029	2,657	4,429	4,840	7,319	4,508	2,421	1,737	2,198	2,383
50% Exceedance	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,017	2,110	1,546	1,476	1,935
60% Exceedance	2,275	1,739	1,760	2,070	2,705	3,000	4,666	3,350	1,782	1,402	1,400	1,825
70% Exceedance	2,128	1,634	1,628	1,758	2,247	2,215	3,204	2,285	1,445	1,195	1,334	1,747
80% Exceedance	1,961	1,513	1,500	1,538	1,852	1,720	2,567	2,054	1,315	1,099	1,236	1,658
90% Exceedance	1,684	1,377	1,339	1,348	1,583	1,536	1,574	1,416	993	930	1,059	1,463
Full Simulation Period Average[a]	2,523	2,333	3,089	4,732	6,350	6,636	7,142	5,620	4,501	3,245	2,088	2,323
Wet Water Years (32%)	3,220	3,384	4,517	9,488	11,733	12,943	12,481	10,172	9,283	6,810	3,306	3,297
Above Normal Water Years (15%)	2,611	2,058	2,450	4,077	6,370	7,011	7,685	5,701	4,722	2,626	2,018	2,324
Below Normal Water Years (17%)	2,488	2,254	3,570	2,959	5,427	4,523	6,435	4,647	2,367	1,857	1,886	2,085
Dry Water Years (22%)	2,054	1,689	2,191	1,881	2,336	2,392	3,371	2,516	1,455	1,190	1,286	1,747
Critical Water Years (15%)	1,667	1,389	1,424	1,429	1,762	1,429	1,516	1,464	973	843	957	1,355

Table 5B3-7-1b. San Joaquin River at Vernalis, Alternative 1A 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,290	2,898	4,217	10,826	13,951	14,996	13,638	12,723	12,058	7,285	3,349	3,276
20% Exceedance	2,913	2,582	2,710	5,216	9,726	9,482	10,138	7,705	7,680	3,691	2,800	2,724
30% Exceedance	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,662	3,179	2,643	2,484	2,532
40% Exceedance	2,622	2,006	2,029	2,657	4,429	4,840	7,319	4,508	2,421	1,737	2,198	2,383
50% Exceedance	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,017	2,110	1,546	1,476	1,935
60% Exceedance	2,275	1,739	1,760	2,070	2,705	3,000	4,666	3,351	1,781	1,402	1,400	1,825
70% Exceedance	2,128	1,634	1,628	1,758	2,247	2,215	3,204	2,285	1,445	1,194	1,334	1,747
80% Exceedance	1,961	1,513	1,500	1,538	1,852	1,720	2,567	2,054	1,315	1,099	1,236	1,658
90% Exceedance	1,684	1,377	1,339	1,348	1,583	1,536	1,574	1,416	993	930	1,059	1,463
Full Simulation Period Average[a]	2,523	2,333	3,089	4,732	6,350	6,636	7,142	5,620	4,501	3,245	2,088	2,323
Wet Water Years (32%)	3,220	3,384	4,517	9,488	11,733	12,943	12,481	10,172	9,283	6,810	3,306	3,297
Above Normal Water Years (15%)	2,611	2,058	2,450	4,077	6,370	7,011	7,685	5,701	4,722	2,627	2,019	2,324
Below Normal Water Years (17%)	2,488	2,254	3,570	2,959	5,427	4,523	6,435	4,647	2,367	1,857	1,886	2,085
Dry Water Years (22%)	2,054	1,689	2,191	1,881	2,336	2,392	3,371	2,516	1,455	1,190	1,286	1,747
Critical Water Years (15%)	1,667	1,389	1,424	1,429	1,762	1,429	1,516	1,464	973	843	957	1,355

Table 5B3-7-1c. San Joaquin River at Vernalis, Alternative 1A 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
20% Exceedance	0	0	0	0	0	0	0	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	1	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	1	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	0	0	0	0	0	0	0	0
Wet Water Years (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal Water Years (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal Water Years (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry Water Years (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical Water Years (15%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-7-2a. San Joaquin River at Vernalis, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,290	2,898	4,217	10,826	13,951	14,996	13,638	12,723	12,058	7,285	3,349	3,276
20% Exceedance	2,913	2,582	2,710	5,216	9,726	9,482	10,138	7,705	7,680	3,691	2,800	2,724
30% Exceedance	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,662	3,179	2,643	2,484	2,532
40% Exceedance	2,622	2,006	2,029	2,657	4,429	4,840	7,319	4,508	2,421	1,737	2,198	2,383
50% Exceedance	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,017	2,110	1,546	1,476	1,935
60% Exceedance	2,275	1,739	1,760	2,070	2,705	3,000	4,666	3,350	1,782	1,402	1,400	1,825
70% Exceedance	2,128	1,634	1,628	1,758	2,247	2,215	3,204	2,285	1,445	1,195	1,334	1,747
80% Exceedance	1,961	1,513	1,500	1,538	1,852	1,720	2,567	2,054	1,315	1,099	1,236	1,658
90% Exceedance	1,684	1,377	1,339	1,348	1,583	1,536	1,574	1,416	993	930	1,059	1,463
Full Simulation Period Average[a]	2,523	2,333	3,089	4,732	6,350	6,636	7,142	5,620	4,501	3,245	2,088	2,323
Wet Water Years (32%)	3,220	3,384	4,517	9,488	11,733	12,943	12,481	10,172	9,283	6,810	3,306	3,297
Above Normal Water Years (15%)	2,611	2,058	2,450	4,077	6,370	7,011	7,685	5,701	4,722	2,626	2,018	2,324
Below Normal Water Years (17%)	2,488	2,254	3,570	2,959	5,427	4,523	6,435	4,647	2,367	1,857	1,886	2,085
Dry Water Years (22%)	2,054	1,689	2,191	1,881	2,336	2,392	3,371	2,516	1,455	1,190	1,286	1,747
Critical Water Years (15%)	1,667	1,389	1,424	1,429	1,762	1,429	1,516	1,464	973	843	957	1,355

Table 5B3-7-2b. San Joaquin River at Vernalis, Alternative 1B 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,290	2,898	4,217	10,826	13,951	14,996	13,638	12,723	12,058	7,285	3,349	3,276
20% Exceedance	2,913	2,582	2,710	5,216	9,726	9,482	10,138	7,705	7,680	3,691	2,800	2,724
30% Exceedance	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,663	3,179	2,643	2,484	2,532
40% Exceedance	2,622	2,006	2,029	2,657	4,429	4,840	7,319	4,508	2,421	1,737	2,198	2,383
50% Exceedance	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,017	2,110	1,546	1,476	1,935
60% Exceedance	2,275	1,739	1,760	2,070	2,705	3,000	4,666	3,351	1,781	1,402	1,400	1,825
70% Exceedance	2,128	1,634	1,628	1,758	2,247	2,215	3,204	2,285	1,445	1,195	1,334	1,747
80% Exceedance	1,961	1,513	1,500	1,538	1,852	1,720	2,567	2,054	1,315	1,099	1,236	1,658
90% Exceedance	1,684	1,377	1,339	1,348	1,583	1,536	1,575	1,419	991	930	1,059	1,463
Full Simulation Period Average[a]	2,523	2,333	3,089	4,732	6,350	6,636	7,142	5,620	4,501	3,245	2,088	2,323
Wet Water Years (32%)	3,220	3,384	4,517	9,488	11,733	12,943	12,481	10,172	9,283	6,810	3,306	3,297
Above Normal Water Years (15%)	2,611	2,058	2,450	4,077	6,370	7,011	7,685	5,701	4,722	2,627	2,019	2,324
Below Normal Water Years (17%)	2,488	2,254	3,570	2,959	5,427	4,523	6,435	4,647	2,368	1,857	1,886	2,085
Dry Water Years (22%)	2,054	1,689	2,191	1,881	2,336	2,392	3,371	2,516	1,456	1,190	1,286	1,747
Critical Water Years (15%)	1,667	1,389	1,424	1,429	1,762	1,429	1,516	1,464	973	844	957	1,355

Table 5B3-7-2c. San Joaquin River at Vernalis, Alternative 1B 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
20% Exceedance	0	0	0	0	0	0	0	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	1	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	1	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	2	3	-2	1	0	0
Full Simulation Period Average[a]	0	0	0	0	0	0	0	0	0	0	0	0
Wet Water Years (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal Water Years (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal Water Years (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry Water Years (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical Water Years (15%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-7-3a. San Joaquin River at Vernalis, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,290	2,898	4,217	10,826	13,951	14,996	13,638	12,723	12,058	7,285	3,349	3,276
20% Exceedance	2,913	2,582	2,710	5,216	9,726	9,482	10,138	7,705	7,680	3,691	2,800	2,724
30% Exceedance	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,662	3,179	2,643	2,484	2,532
40% Exceedance	2,622	2,006	2,029	2,657	4,429	4,840	7,319	4,508	2,421	1,737	2,198	2,383
50% Exceedance	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,017	2,110	1,546	1,476	1,935
60% Exceedance	2,275	1,739	1,760	2,070	2,705	3,000	4,666	3,350	1,782	1,402	1,400	1,825
70% Exceedance	2,128	1,634	1,628	1,758	2,247	2,215	3,204	2,285	1,445	1,195	1,334	1,747
80% Exceedance	1,961	1,513	1,500	1,538	1,852	1,720	2,567	2,054	1,315	1,099	1,236	1,658
90% Exceedance	1,684	1,377	1,339	1,348	1,583	1,536	1,574	1,416	993	930	1,059	1,463
Full Simulation Period Average[a]	2,523	2,333	3,089	4,732	6,350	6,636	7,142	5,620	4,501	3,245	2,088	2,323
Wet Water Years (32%)	3,220	3,384	4,517	9,488	11,733	12,943	12,481	10,172	9,283	6,810	3,306	3,297
Above Normal Water Years (15%)	2,611	2,058	2,450	4,077	6,370	7,011	7,685	5,701	4,722	2,626	2,018	2,324
Below Normal Water Years (17%)	2,488	2,254	3,570	2,959	5,427	4,523	6,435	4,647	2,367	1,857	1,886	2,085
Dry Water Years (22%)	2,054	1,689	2,191	1,881	2,336	2,392	3,371	2,516	1,455	1,190	1,286	1,747
Critical Water Years (15%)	1,667	1,389	1,424	1,429	1,762	1,429	1,516	1,464	973	843	957	1,355

Table 5B3-7-3b. San Joaquin River at Vernalis, Alternative 2 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,290	2,898	4,217	10,826	13,951	14,996	13,638	12,723	12,058	7,285	3,349	3,276
20% Exceedance	2,913	2,582	2,710	5,216	9,726	9,482	10,138	7,705	7,680	3,691	2,800	2,724
30% Exceedance	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,662	3,179	2,643	2,484	2,532
40% Exceedance	2,622	2,006	2,029	2,657	4,429	4,840	7,319	4,508	2,421	1,737	2,198	2,383
50% Exceedance	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,017	2,110	1,546	1,476	1,935
60% Exceedance	2,275	1,739	1,760	2,070	2,705	3,000	4,666	3,351	1,781	1,402	1,400	1,825
70% Exceedance	2,128	1,634	1,628	1,758	2,247	2,215	3,204	2,285	1,445	1,194	1,334	1,747
80% Exceedance	1,961	1,513	1,500	1,538	1,852	1,720	2,567	2,054	1,315	1,099	1,236	1,658
90% Exceedance	1,684	1,377	1,339	1,348	1,583	1,536	1,574	1,416	993	930	1,059	1,463
Full Simulation Period Average[a]	2,523	2,333	3,089	4,732	6,350	6,636	7,142	5,620	4,501	3,245	2,088	2,323
Wet Water Years (32%)	3,220	3,384	4,517	9,488	11,733	12,943	12,481	10,172	9,283	6,810	3,306	3,297
Above Normal Water Years (15%)	2,611	2,058	2,450	4,077	6,370	7,011	7,685	5,701	4,722	2,627	2,019	2,324
Below Normal Water Years (17%)	2,488	2,254	3,570	2,959	5,427	4,523	6,435	4,647	2,368	1,857	1,886	2,085
Dry Water Years (22%)	2,054	1,689	2,191	1,881	2,336	2,392	3,371	2,516	1,455	1,190	1,286	1,747
Critical Water Years (15%)	1,667	1,389	1,424	1,429	1,762	1,429	1,516	1,464	973	843	957	1,355

Table 5B3-7-3c. San Joaquin River at Vernalis, Alternative 2 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
20% Exceedance	0	0	0	0	0	0	0	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	1	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	1	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	0	0	0	0	0	0	0	0
Wet Water Years (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal Water Years (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal Water Years (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry Water Years (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical Water Years (15%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-7-4a. San Joaquin River at Vernalis, No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,290	2,898	4,217	10,826	13,951	14,996	13,638	12,723	12,058	7,285	3,349	3,276
20% Exceedance	2,913	2,582	2,710	5,216	9,726	9,482	10,138	7,705	7,680	3,691	2,800	2,724
30% Exceedance	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,662	3,179	2,643	2,484	2,532
40% Exceedance	2,622	2,006	2,029	2,657	4,429	4,840	7,319	4,508	2,421	1,737	2,198	2,383
50% Exceedance	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,017	2,110	1,546	1,476	1,935
60% Exceedance	2,275	1,739	1,760	2,070	2,705	3,000	4,666	3,350	1,782	1,402	1,400	1,825
70% Exceedance	2,128	1,634	1,628	1,758	2,247	2,215	3,204	2,285	1,445	1,195	1,334	1,747
80% Exceedance	1,961	1,513	1,500	1,538	1,852	1,720	2,567	2,054	1,315	1,099	1,236	1,658
90% Exceedance	1,684	1,377	1,339	1,348	1,583	1,536	1,574	1,416	993	930	1,059	1,463
Full Simulation Period Average[a]	2,523	2,333	3,089	4,732	6,350	6,636	7,142	5,620	4,501	3,245	2,088	2,323
Wet Water Years (32%)	3,220	3,384	4,517	9,488	11,733	12,943	12,481	10,172	9,283	6,810	3,306	3,297
Above Normal Water Years (15%)	2,611	2,058	2,450	4,077	6,370	7,011	7,685	5,701	4,722	2,626	2,018	2,324
Below Normal Water Years (17%)	2,488	2,254	3,570	2,959	5,427	4,523	6,435	4,647	2,367	1,857	1,886	2,085
Dry Water Years (22%)	2,054	1,689	2,191	1,881	2,336	2,392	3,371	2,516	1,455	1,190	1,286	1,747
Critical Water Years (15%)	1,667	1,389	1,424	1,429	1,762	1,429	1,516	1,464	973	843	957	1,355

Table 5B3-7-4b. San Joaquin River at Vernalis, Alternative 3 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,290	2,898	4,217	10,826	13,951	14,996	13,638	12,723	12,058	7,285	3,349	3,276
20% Exceedance	2,913	2,582	2,710	5,216	9,726	9,482	10,138	7,705	7,680	3,691	2,800	2,724
30% Exceedance	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,663	3,179	2,643	2,484	2,532
40% Exceedance	2,622	2,006	2,029	2,657	4,429	4,840	7,319	4,507	2,419	1,737	2,197	2,383
50% Exceedance	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,016	2,109	1,546	1,476	1,935
60% Exceedance	2,275	1,739	1,760	2,070	2,705	3,000	4,666	3,351	1,781	1,402	1,400	1,825
70% Exceedance	2,129	1,634	1,628	1,759	2,247	2,215	3,205	2,285	1,445	1,195	1,334	1,747
80% Exceedance	1,961	1,513	1,500	1,537	1,853	1,720	2,567	2,058	1,315	1,103	1,236	1,659
90% Exceedance	1,684	1,377	1,339	1,348	1,584	1,536	1,576	1,419	993	930	1,059	1,464
Full Simulation Period Average[a]	2,523	2,333	3,089	4,732	6,350	6,636	7,143	5,620	4,501	3,246	2,088	2,323
Wet Water Years (32%)	3,220	3,384	4,517	9,488	11,733	12,943	12,481	10,172	9,284	6,811	3,306	3,297
Above Normal Water Years (15%)	2,611	2,058	2,450	4,077	6,369	7,011	7,685	5,701	4,722	2,626	2,018	2,324
Below Normal Water Years (17%)	2,488	2,254	3,570	2,959	5,427	4,523	6,434	4,646	2,367	1,856	1,886	2,085
Dry Water Years (22%)	2,054	1,689	2,191	1,881	2,336	2,392	3,372	2,517	1,457	1,191	1,287	1,747
Critical Water Years (15%)	1,668	1,389	1,424	1,429	1,762	1,429	1,516	1,465	974	844	957	1,355

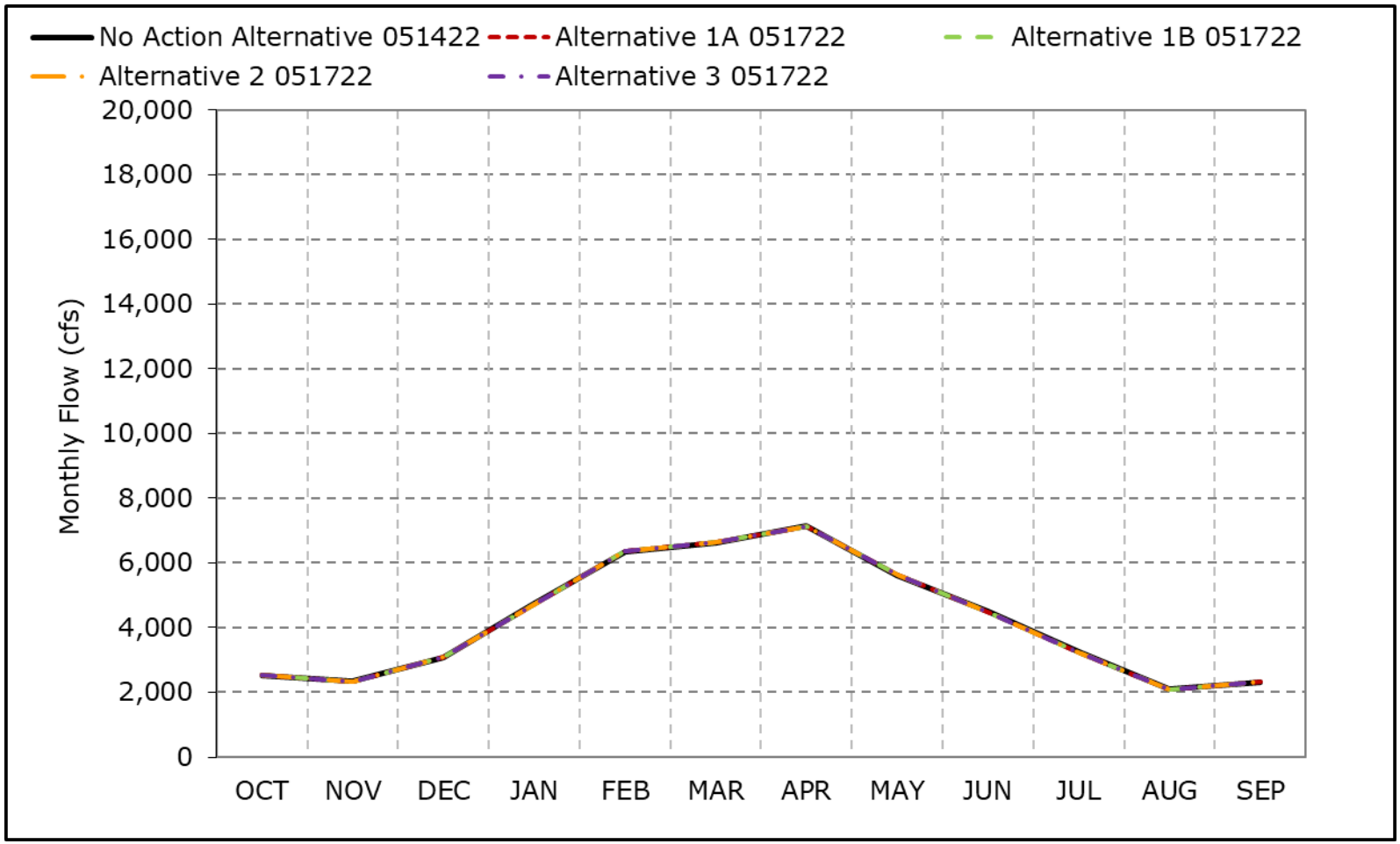
Table 5B3-7-4c. San Joaquin River at Vernalis, Alternative 3 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0	0	0	0	0	0	0	1	0	0	0	0
40% Exceedance	0	0	0	0	1	0	0	0	-2	0	-1	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	1	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	1	0	0	0	0	0	1	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	4	0	4	0	0
90% Exceedance	0	0	0	0	0	0	2	3	0	1	0	0
Full Simulation Period Average[a]	0	0	0	0	0	0	0	0	0	0	0	0
Wet Water Years (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal Water Years (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal Water Years (17%)	0	0	0	0	0	0	0	-1	-1	-1	-1	0
Dry Water Years (22%)	0	0	0	0	0	0	0	1	1	1	1	0
Critical Water Years (15%)	0	0	0	0	0	0	0	0	1	1	1	0

[a] Based on the 82-year simulation period.

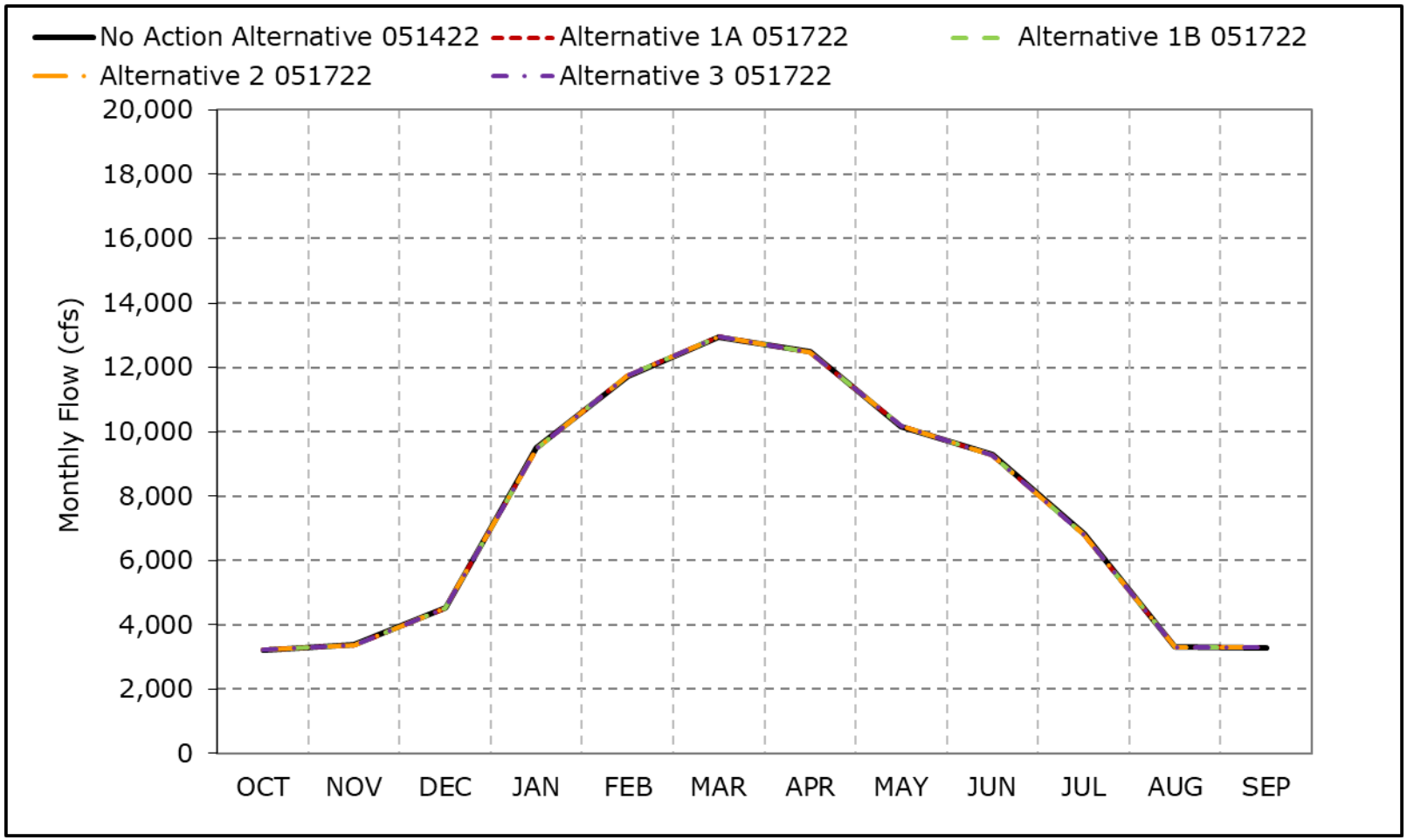
* All scenarios are simulated at current climate condition and 0 cm sea level rise.
* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* Water Year Types results are displayed with calendar year - year type sorting.

Figure 5B3-7-1. San Joaquin River at Vernalis, Long-Term Average Flow



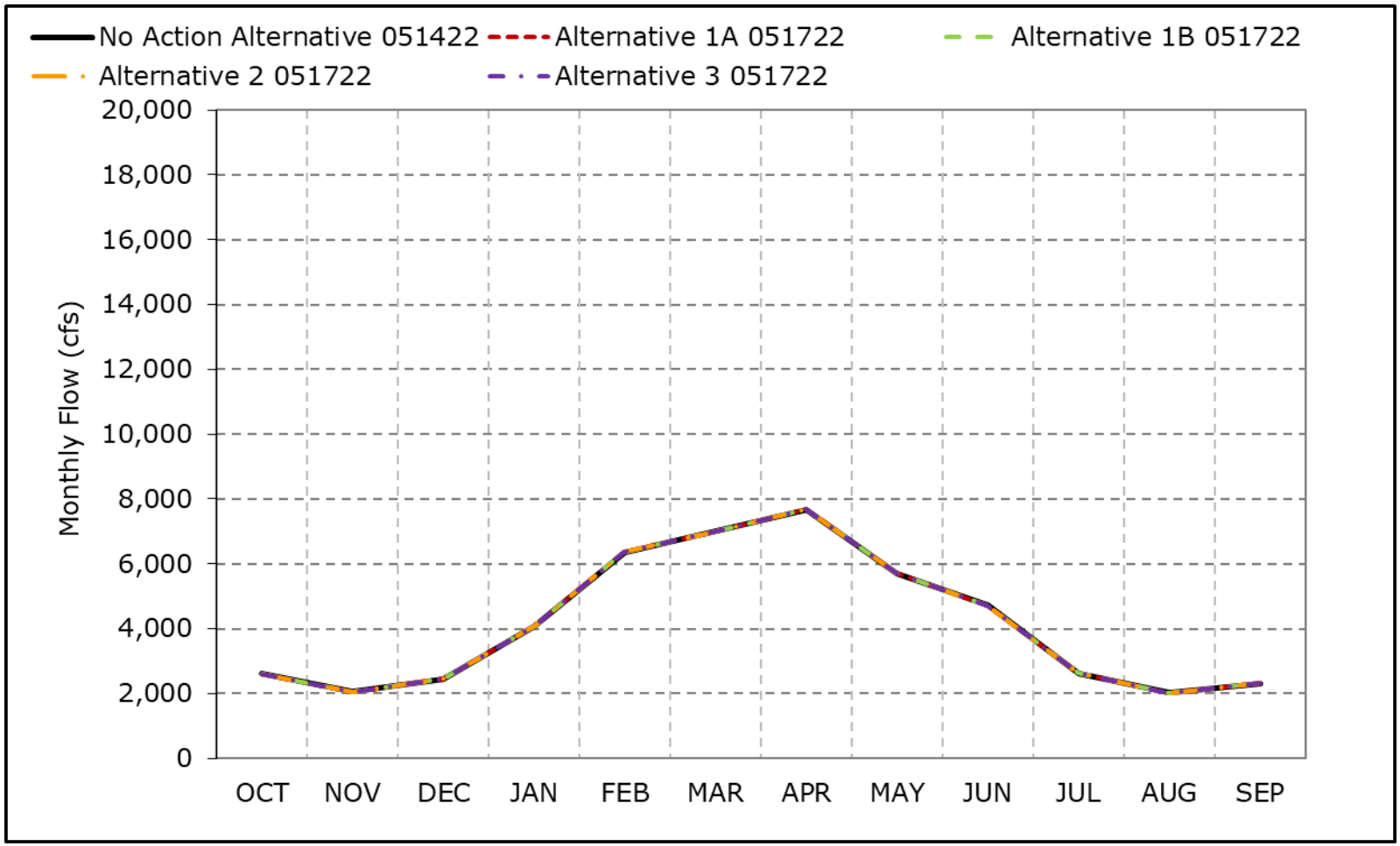
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-7-2. San Joaquin River at Vernalis, Wet Year Average Flow



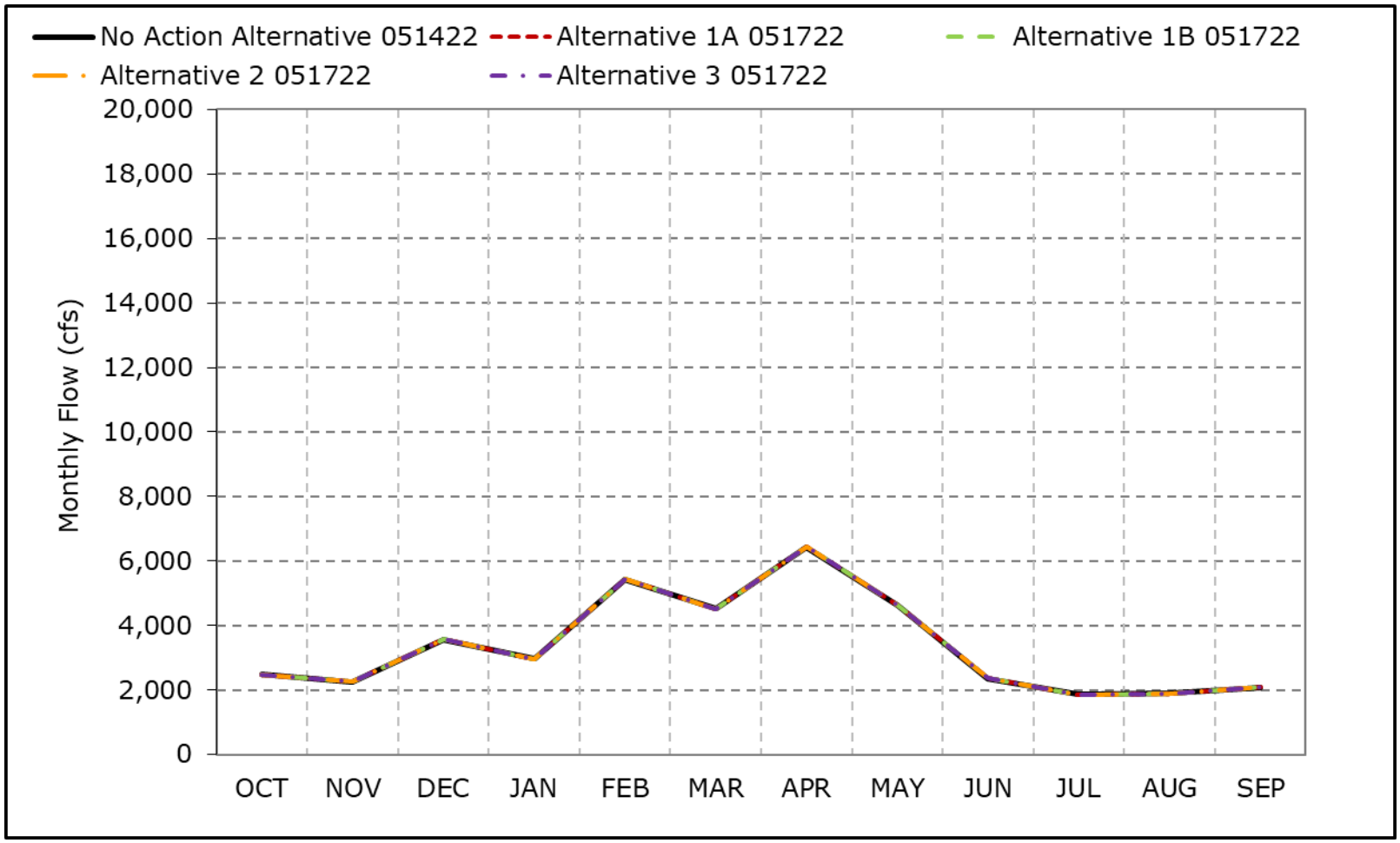
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-7-3. San Joaquin River at Vernalis, Above Normal Year Average Flow



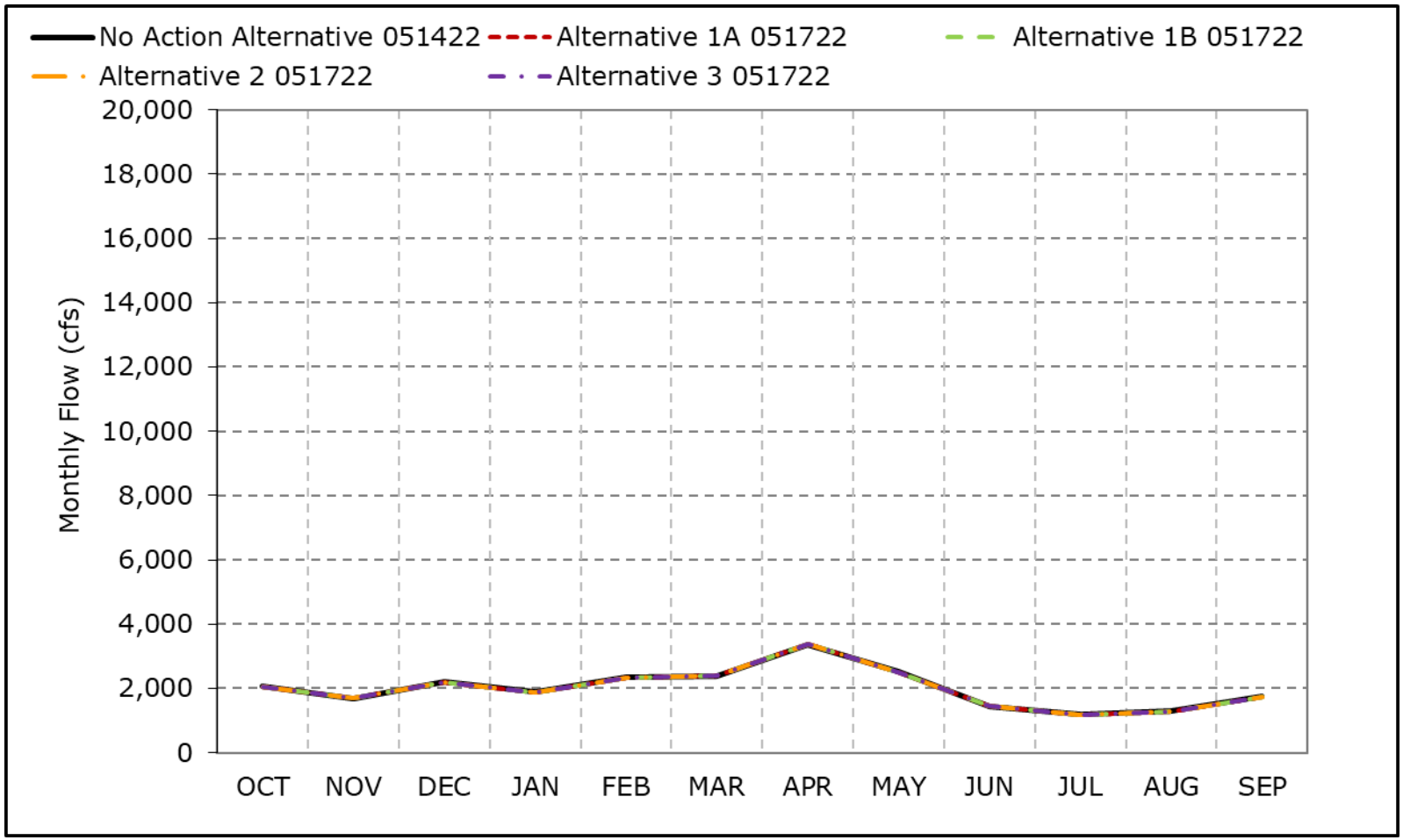
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-7-4. San Joaquin River at Vernalis, Below Normal Year Average Flow



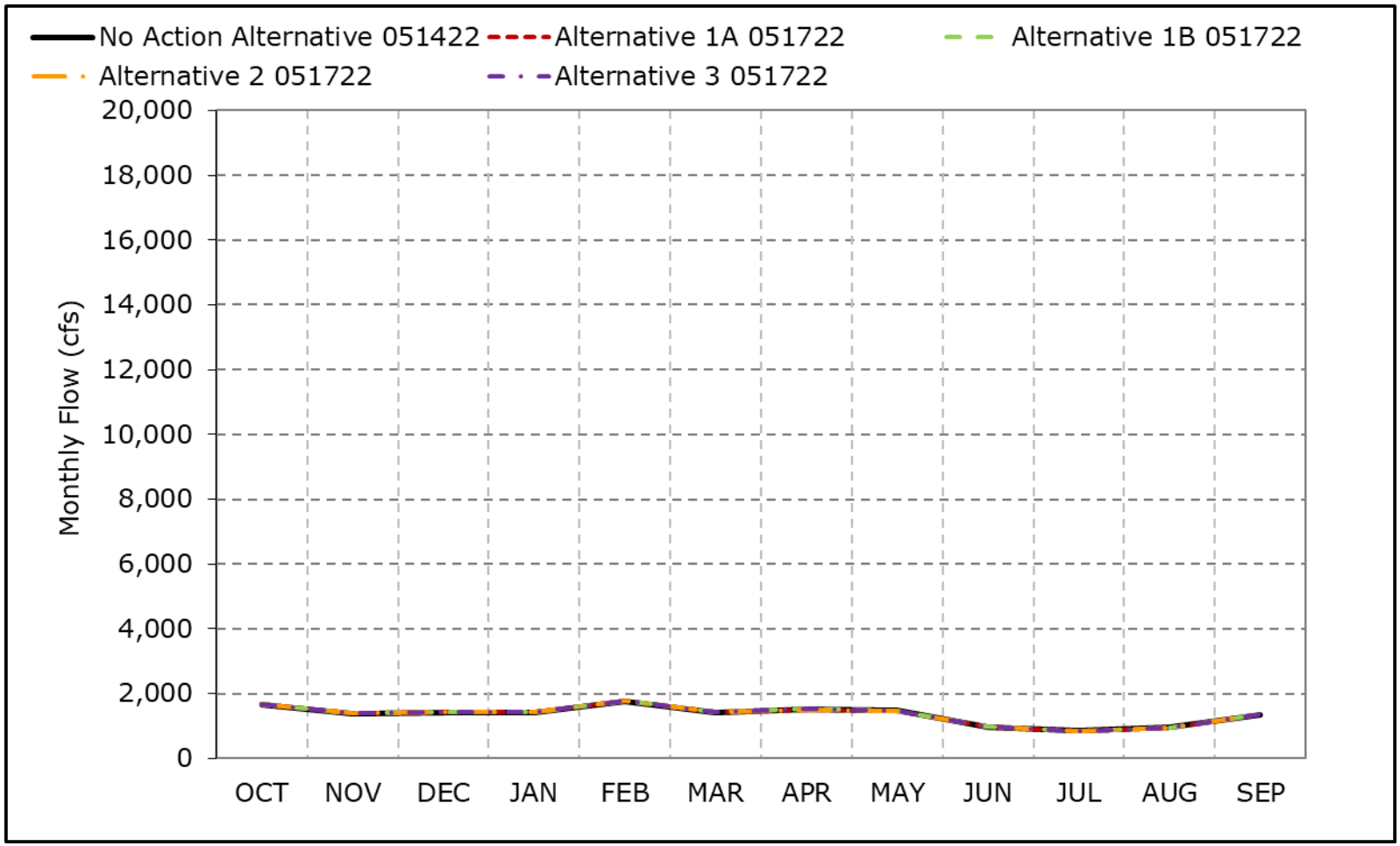
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-7-5. San Joaquin River at Vernalis, Dry Year Average Flow



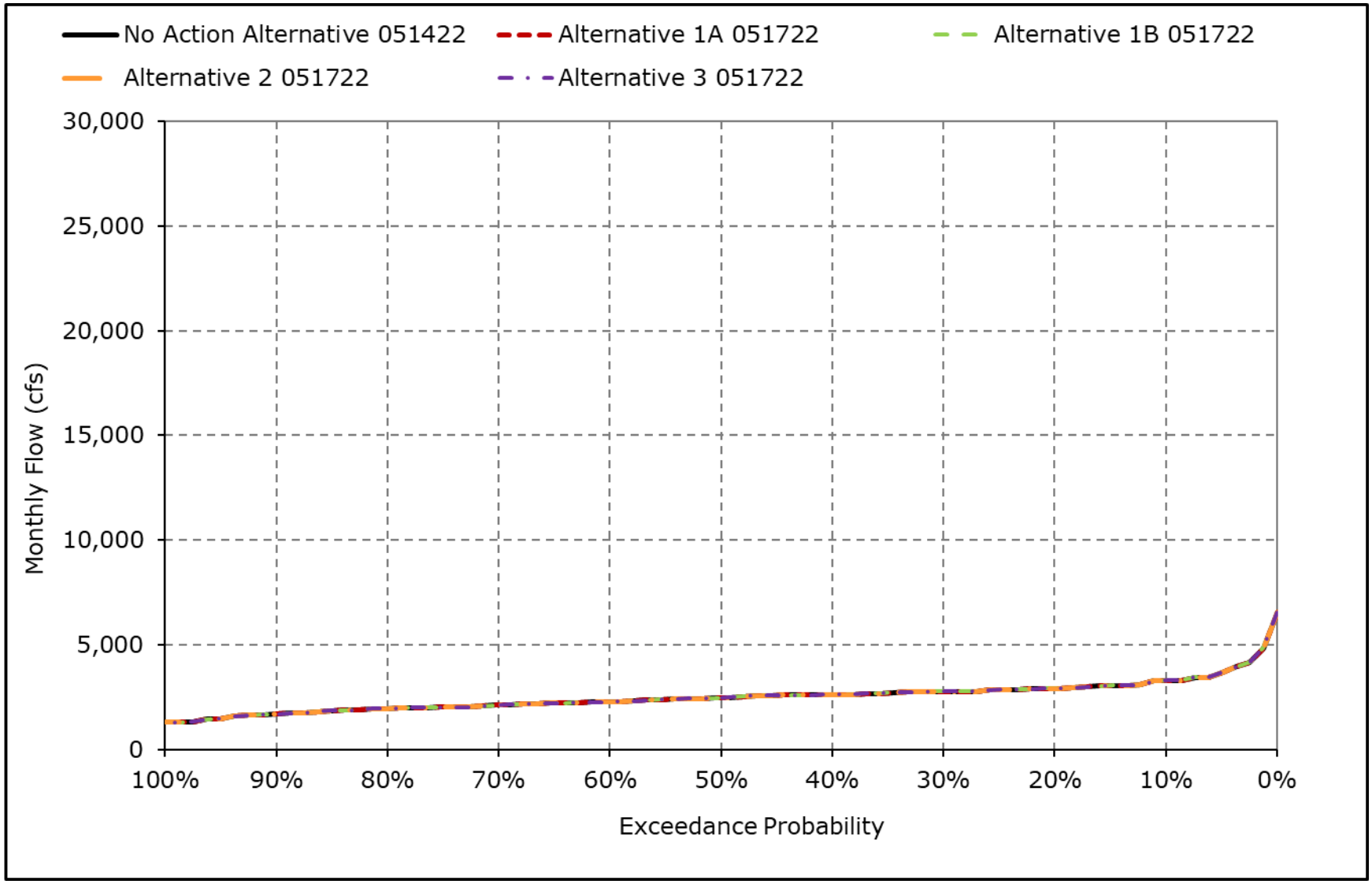
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-7-6. San Joaquin River at Vernalis, Critical Year Average Flow



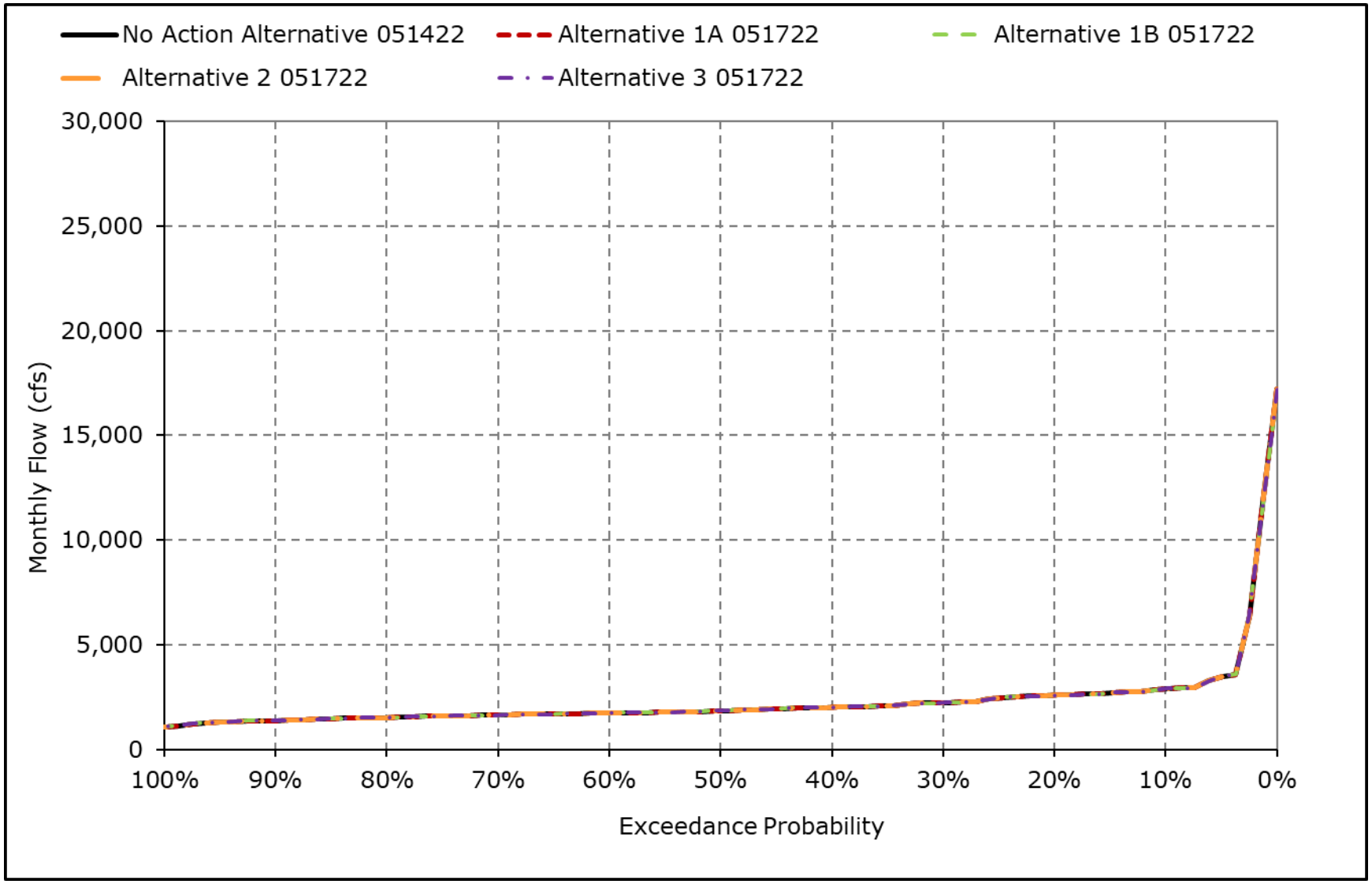
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-7-7. San Joaquin River at Vernalis, October



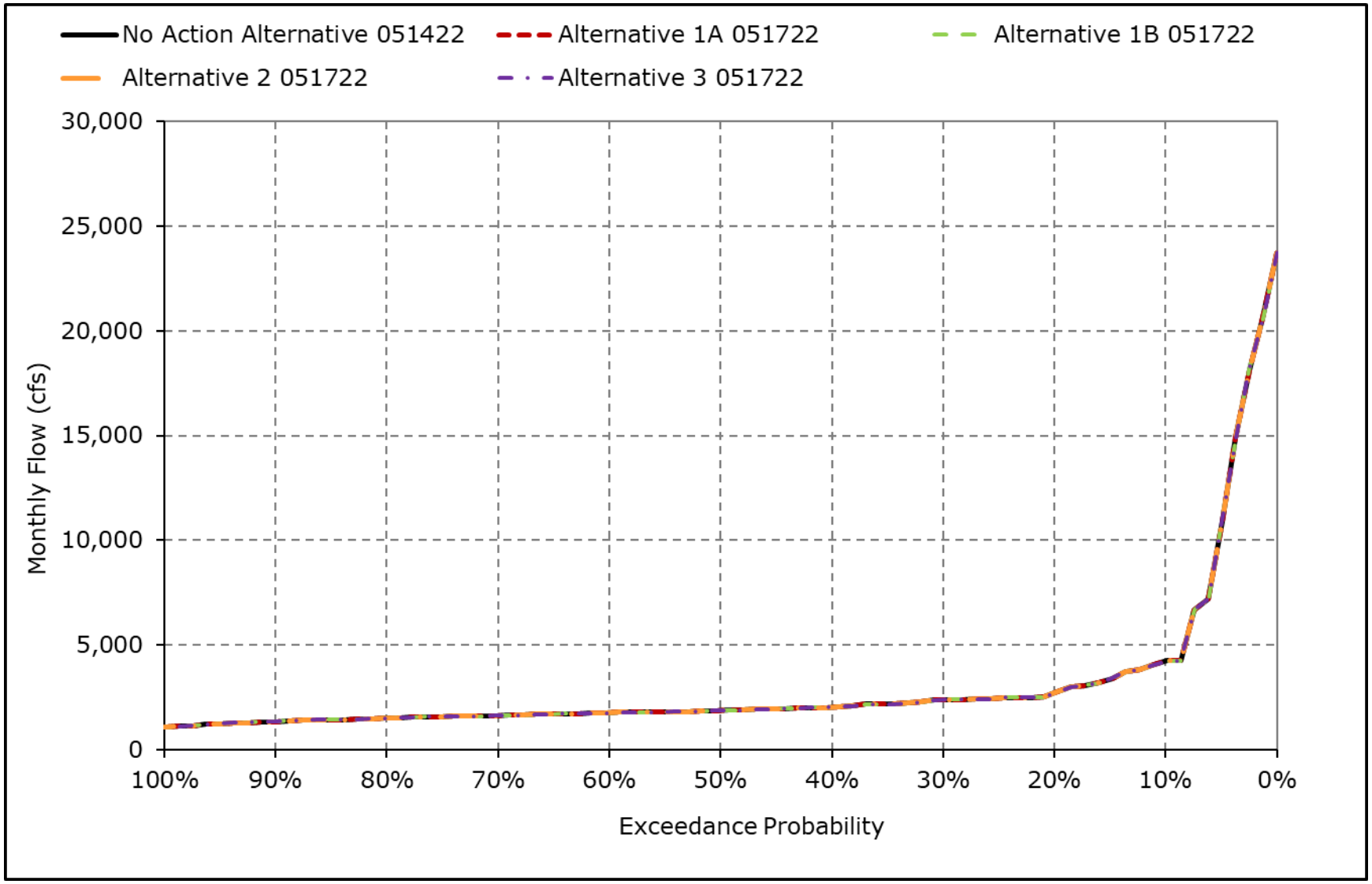
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-7-8. San Joaquin River at Vernalis, November



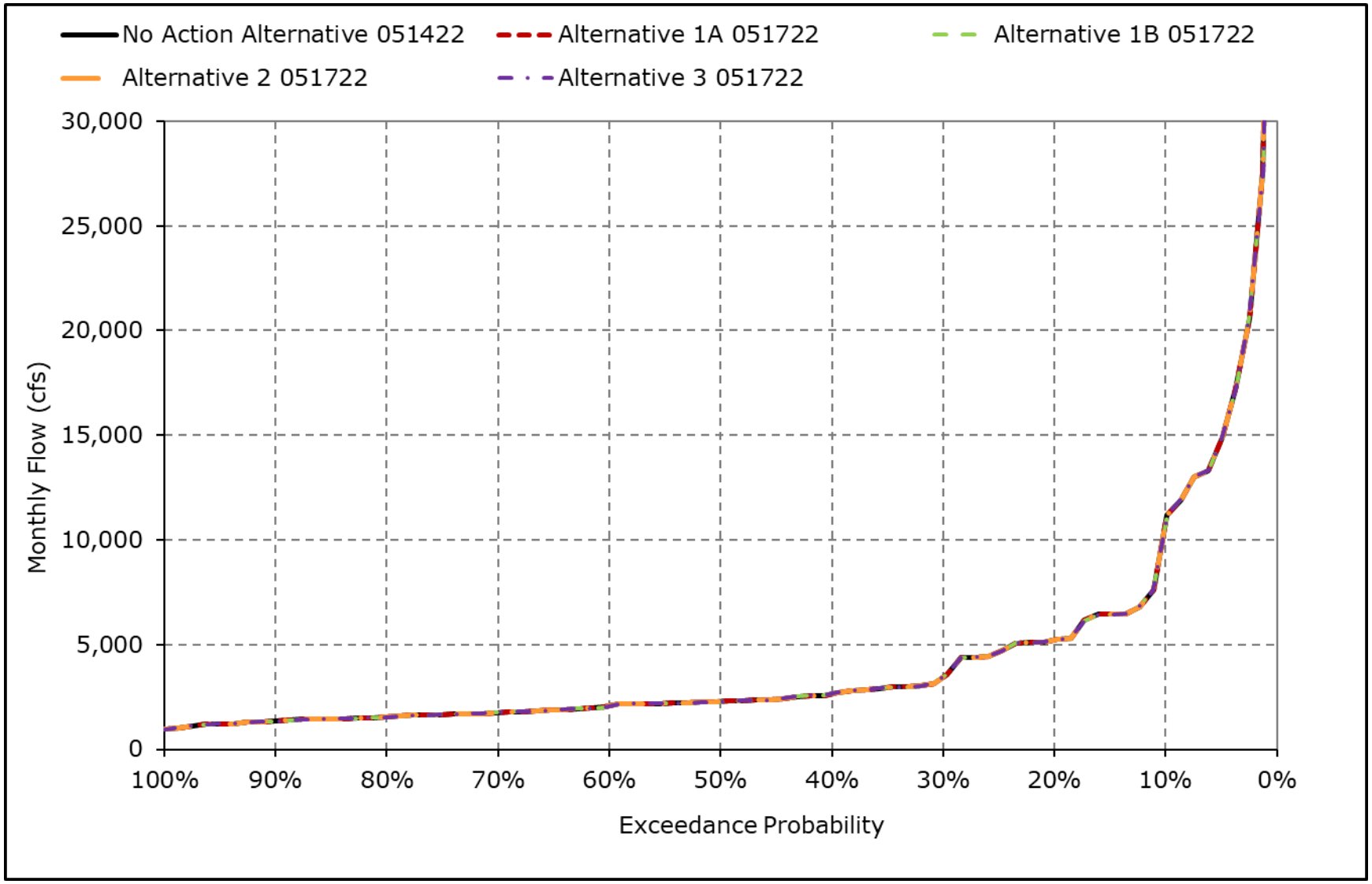
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-7-9. San Joaquin River at Vernalis, December



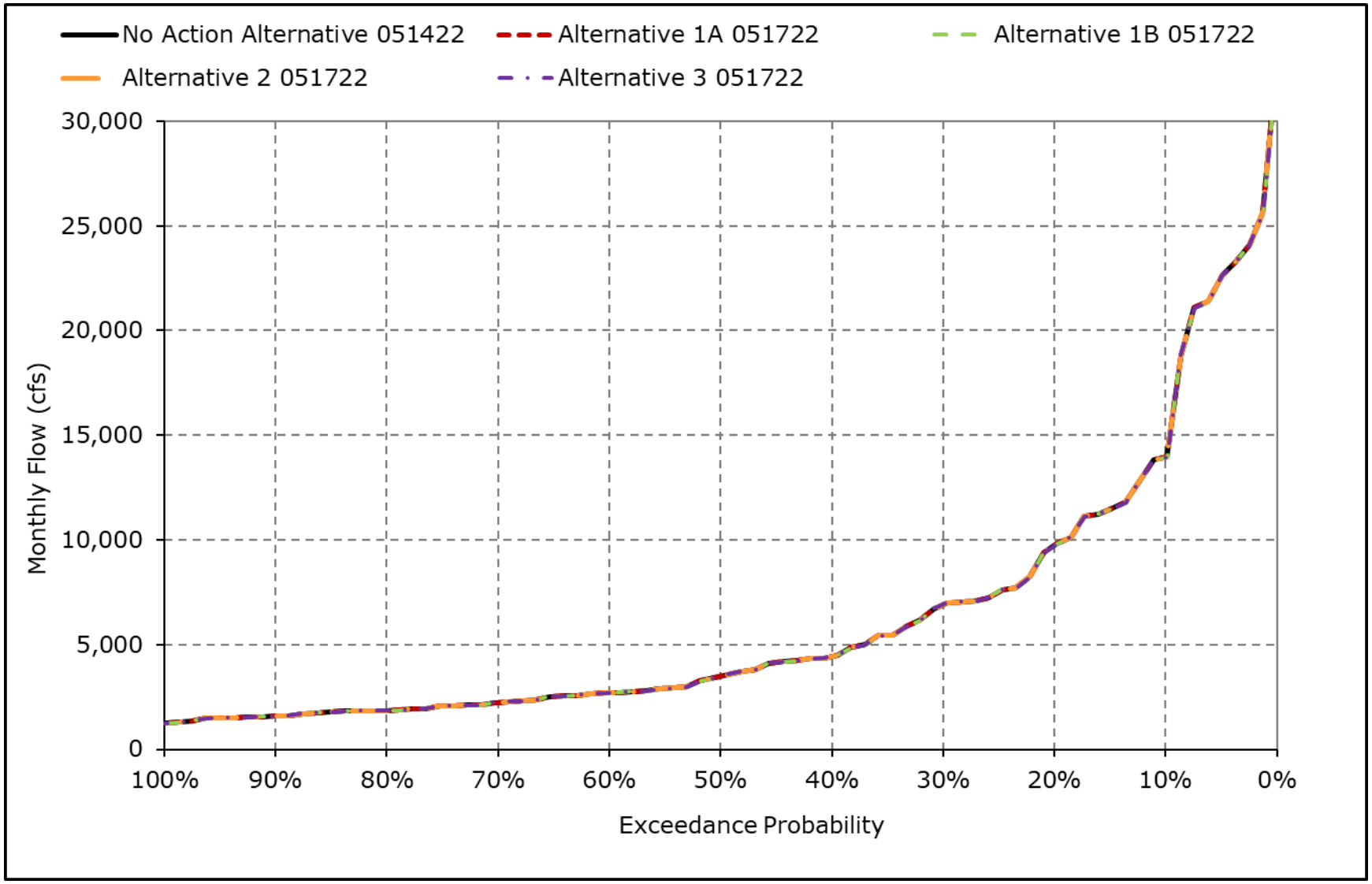
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-7-10. San Joaquin River at Vernalis, January



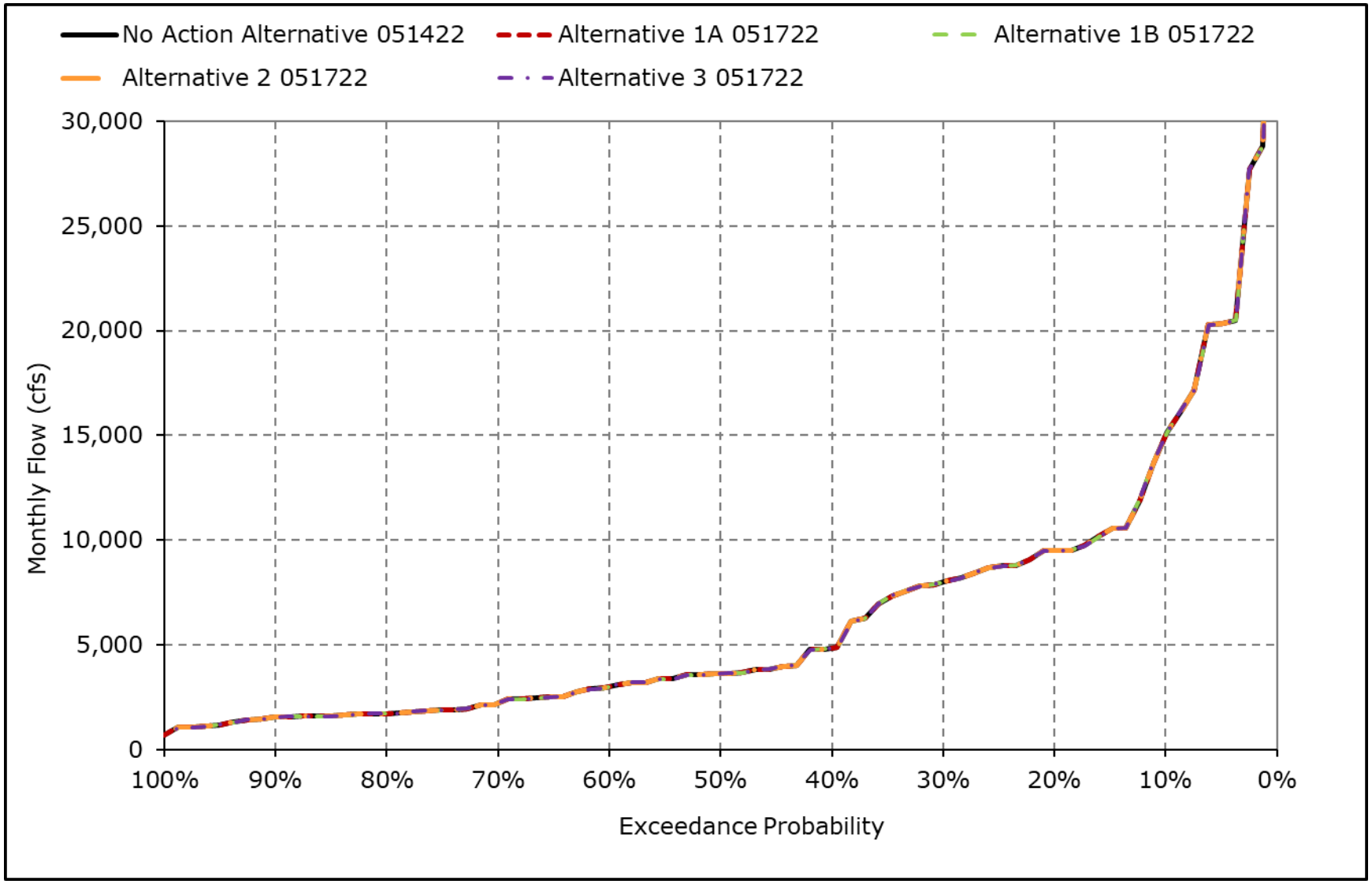
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-7-11. San Joaquin River at Vernalis, February



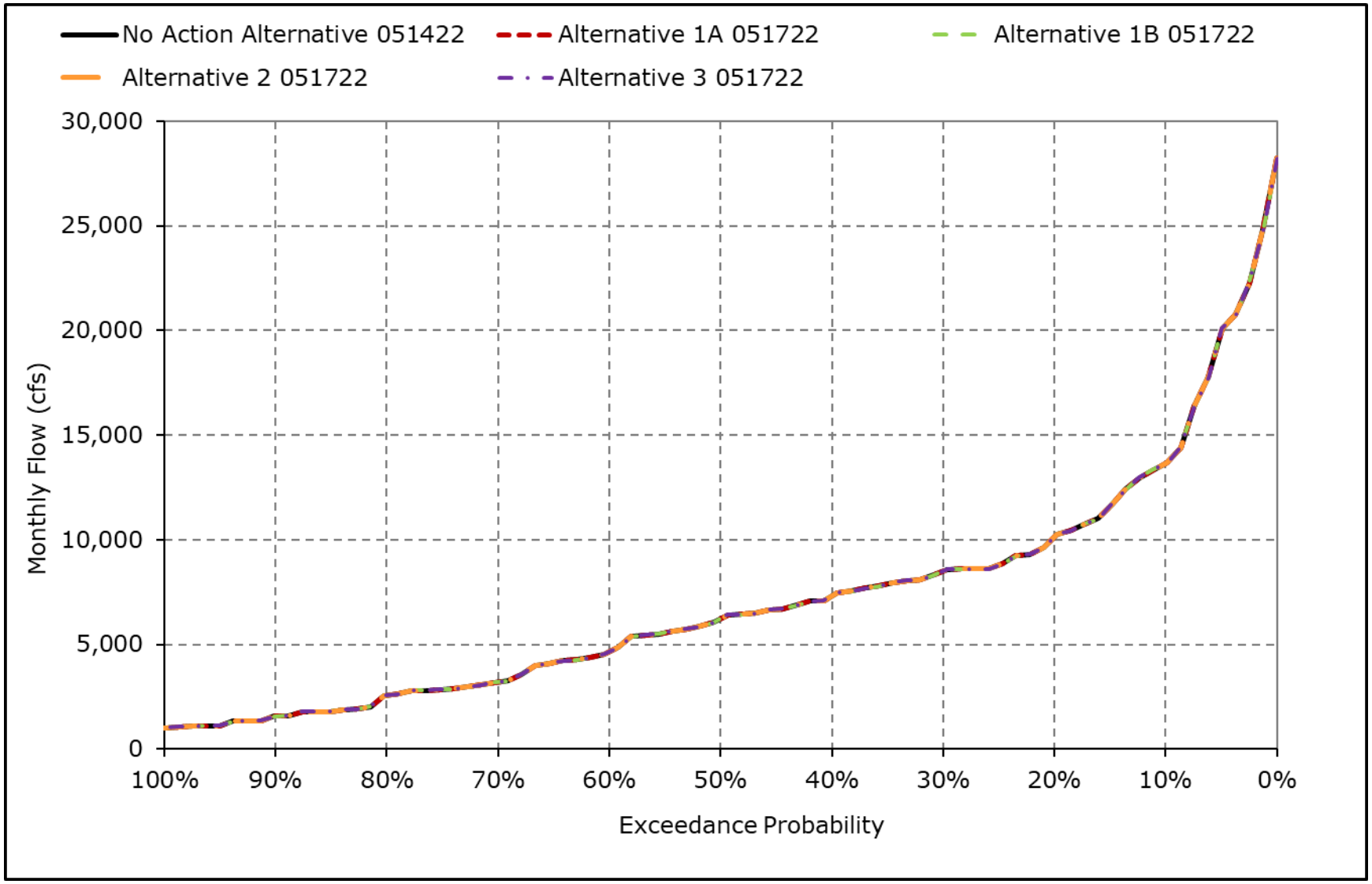
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-7-12. San Joaquin River at Vernalis, March



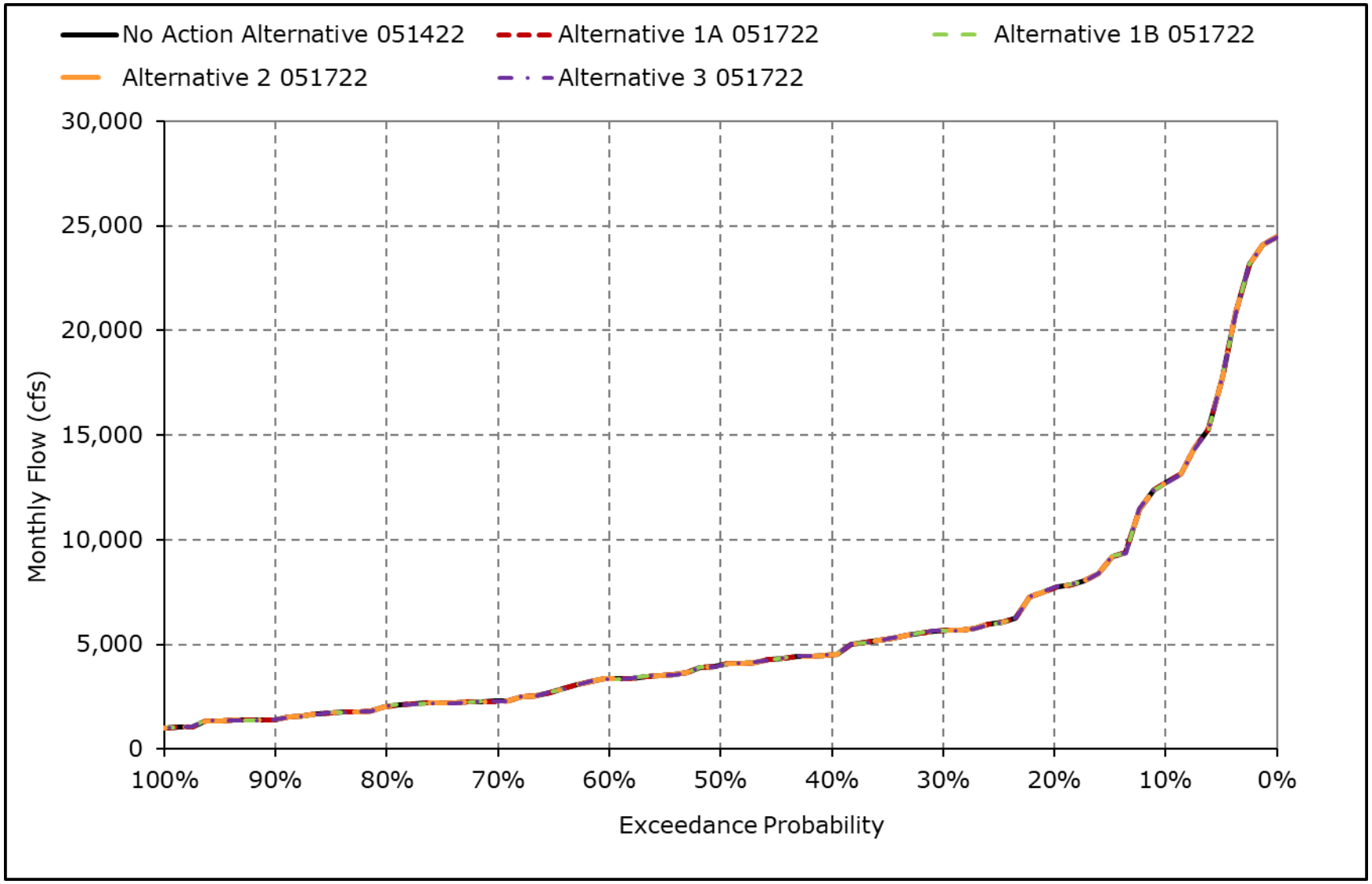
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-7-13. San Joaquin River at Vernalis, April



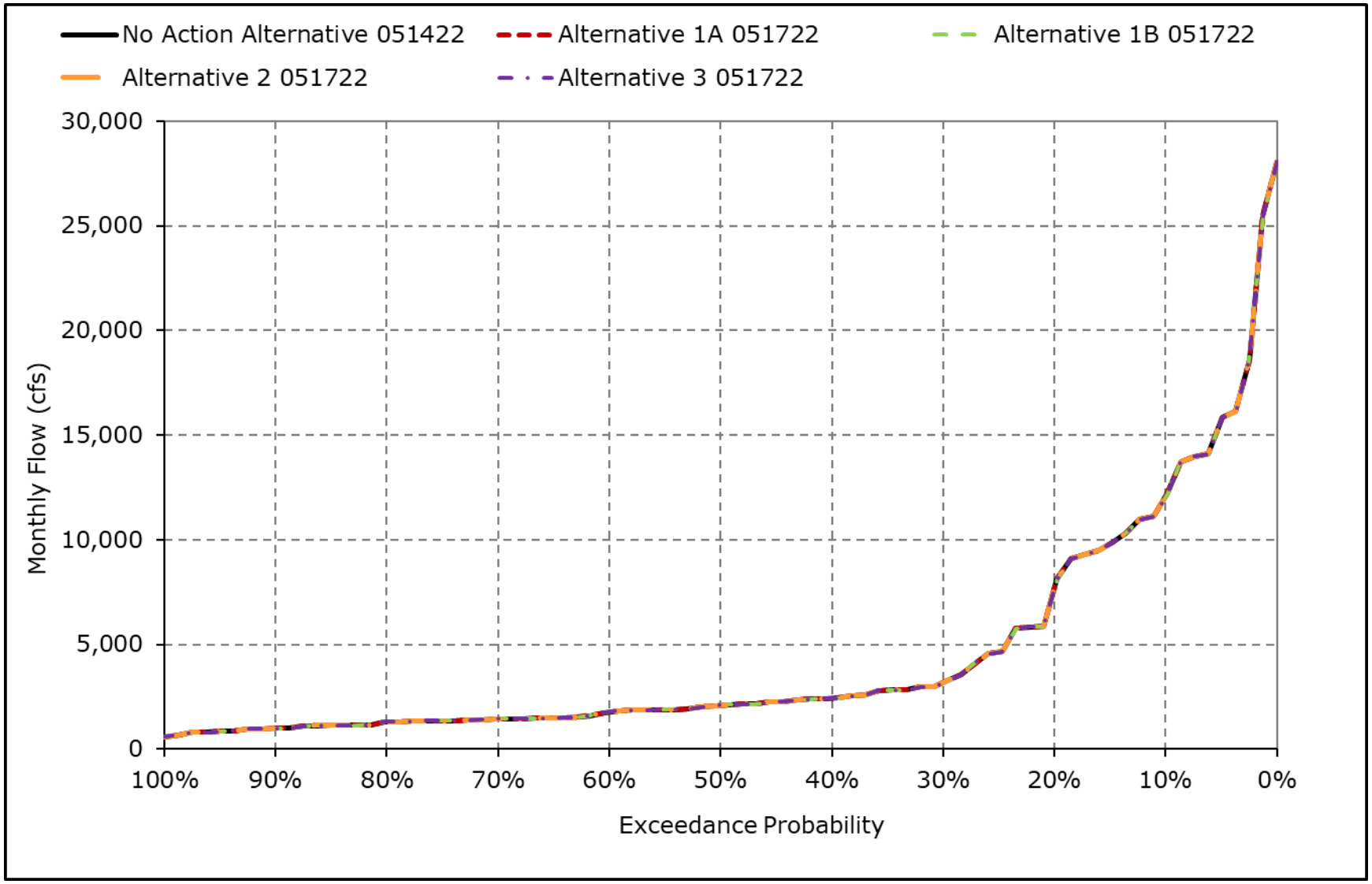
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-7-14. San Joaquin River at Vernalis, May



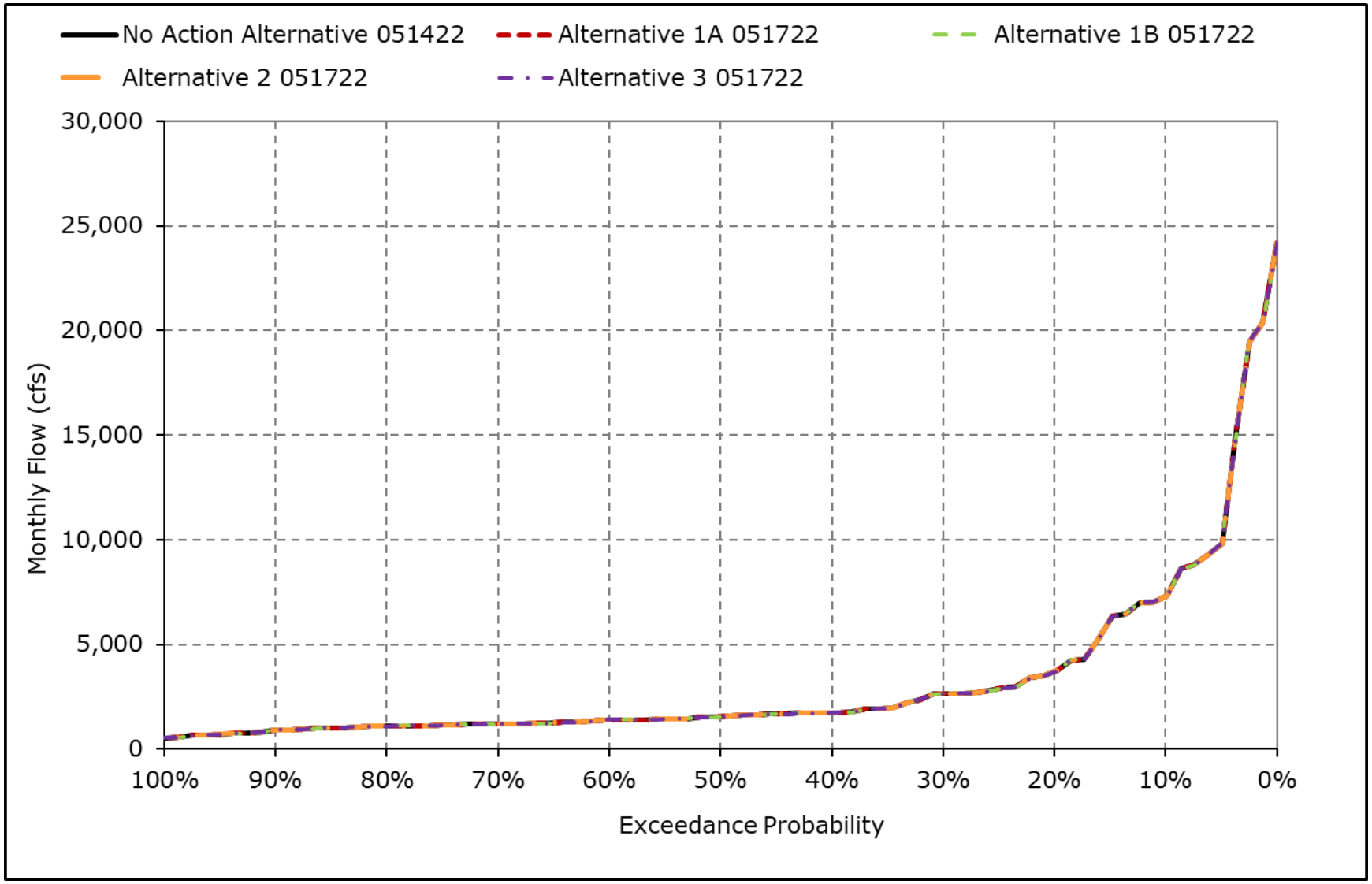
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-7-15. San Joaquin River at Vernalis, June



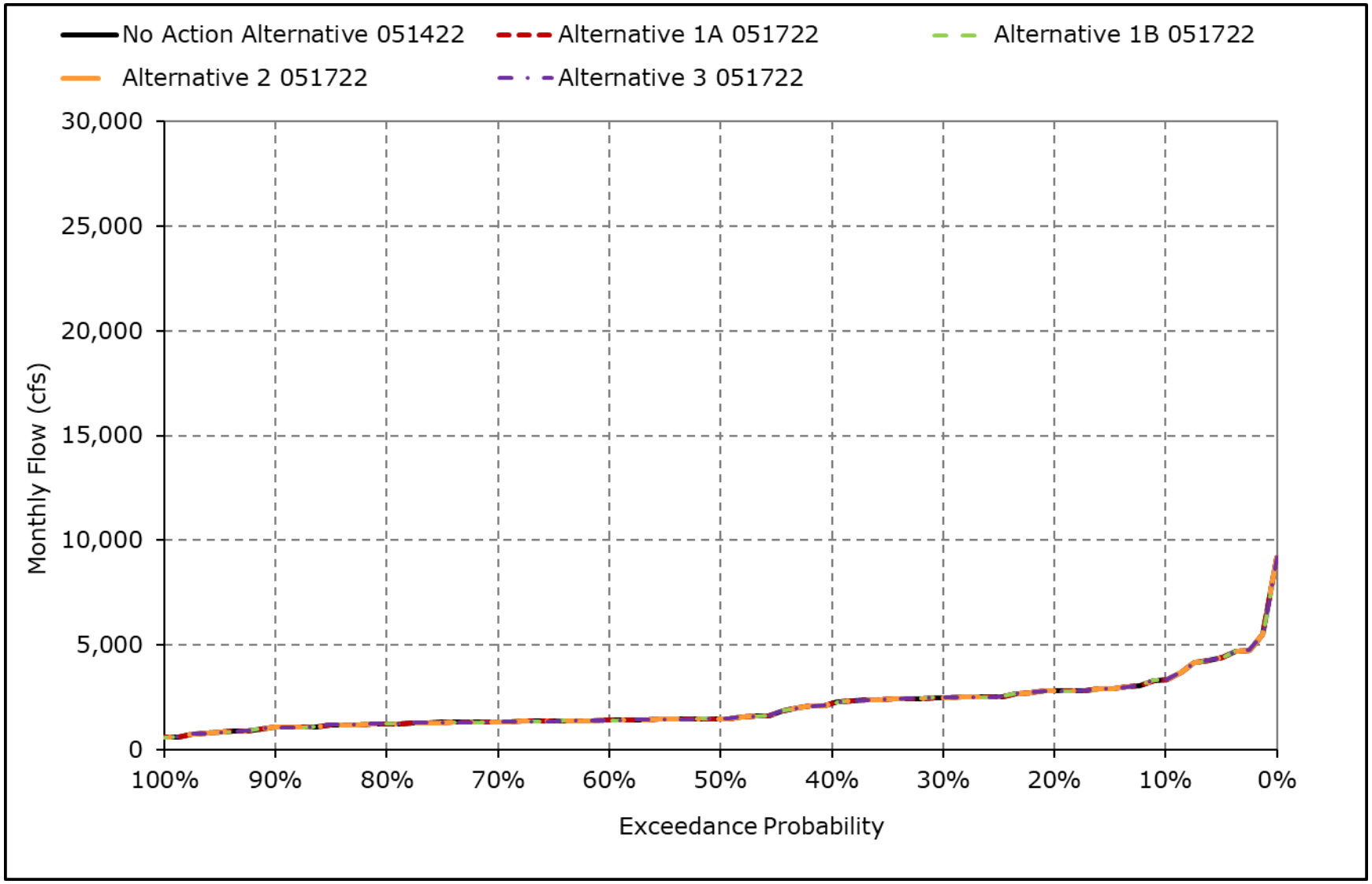
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-7-16. San Joaquin River at Vernalis, July



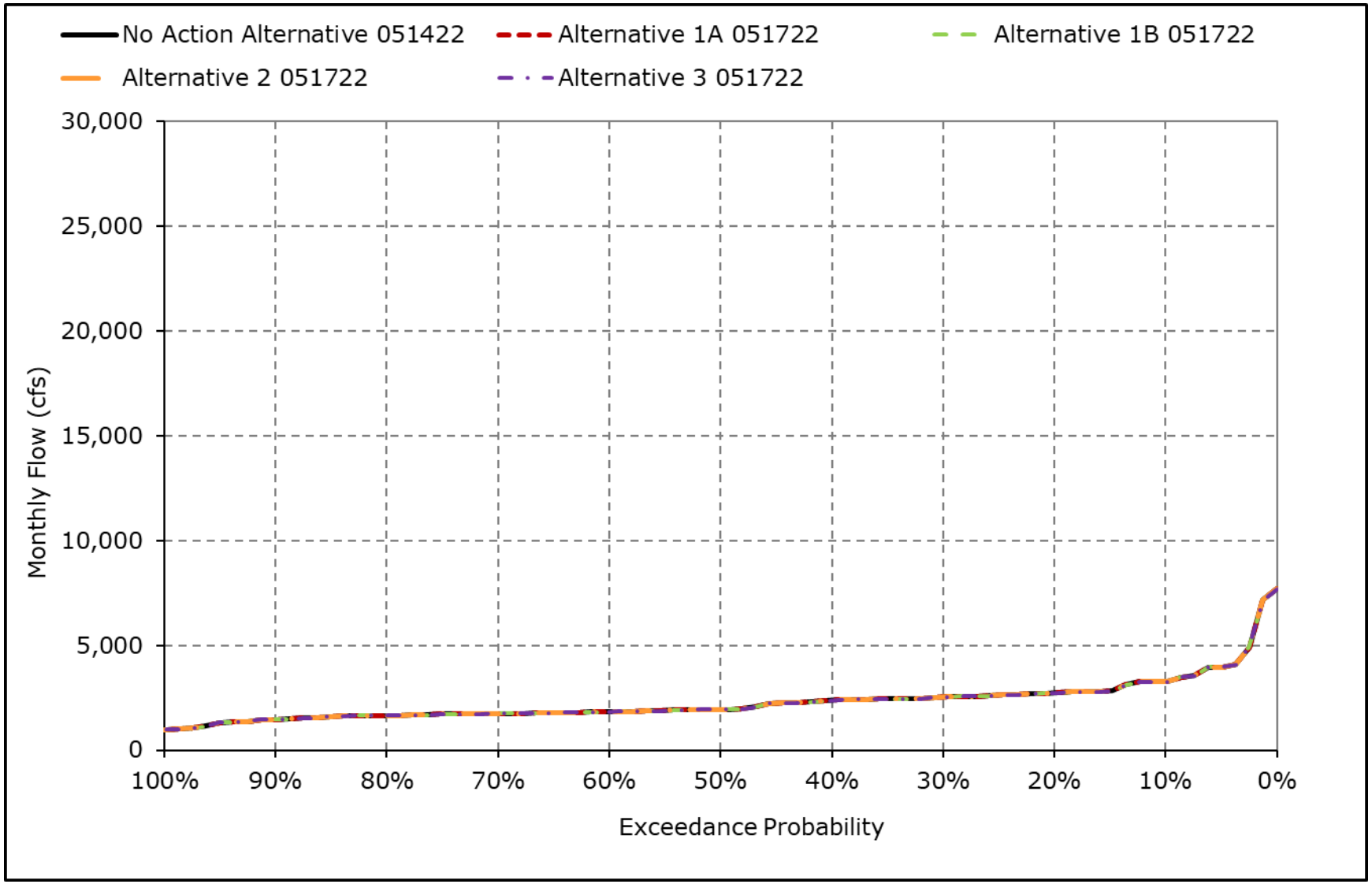
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-7-17. San Joaquin River at Vernalis, August



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-7-18. San Joaquin River at Vernalis, September



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 5B3-8-1a. San Joaquin River at Vernalis (60-20-20), No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,290	2,898	4,217	10,826	13,951	14,996	13,638	12,723	12,058	7,285	3,349	3,276
20% Exceedance	2,913	2,582	2,710	5,216	9,726	9,482	10,138	7,705	7,680	3,691	2,800	2,724
30% Exceedance	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,662	3,179	2,643	2,484	2,532
40% Exceedance	2,622	2,006	2,029	2,657	4,429	4,840	7,319	4,508	2,421	1,737	2,198	2,383
50% Exceedance	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,017	2,110	1,546	1,476	1,935
60% Exceedance	2,275	1,739	1,760	2,070	2,705	3,000	4,666	3,350	1,782	1,402	1,400	1,825
70% Exceedance	2,128	1,634	1,628	1,758	2,247	2,215	3,204	2,285	1,445	1,195	1,334	1,747
80% Exceedance	1,961	1,513	1,500	1,538	1,852	1,720	2,567	2,054	1,315	1,099	1,236	1,658
90% Exceedance	1,684	1,377	1,339	1,348	1,583	1,536	1,574	1,416	993	930	1,059	1,463
Full Simulation Period Average[a]	2,523	2,333	3,089	4,732	6,350	6,636	7,142	5,620	4,501	3,245	2,088	2,323
Wet Water Years (29%)	3,200	3,525	5,005	9,319	13,057	14,636	13,555	11,627	11,276	7,744	3,517	3,393
Above Normal Water Years (20%)	2,858	2,184	2,590	5,309	6,930	5,914	7,823	4,981	2,494	2,054	2,232	2,481
Below Normal Water Years (16%)	2,349	2,124	2,917	2,269	2,772	3,235	5,357	3,777	1,913	1,406	1,405	1,824
Dry Water Years (16%)	2,064	1,670	2,452	2,122	2,472	2,474	3,213	2,288	1,395	1,196	1,329	1,775
Critical Water Years (20%)	1,654	1,398	1,394	1,397	1,766	1,505	1,487	1,452	970	849	971	1,411

Table 5B3-8-1b. San Joaquin River at Vernalis (60-20-20), Alternative 1A 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,290	2,898	4,217	10,826	13,951	14,996	13,638	12,723	12,058	7,285	3,349	3,276
20% Exceedance	2,913	2,582	2,710	5,216	9,726	9,482	10,138	7,705	7,680	3,691	2,800	2,724
30% Exceedance	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,662	3,179	2,643	2,484	2,532
40% Exceedance	2,622	2,006	2,029	2,657	4,429	4,840	7,319	4,508	2,421	1,737	2,198	2,383
50% Exceedance	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,017	2,110	1,546	1,476	1,935
60% Exceedance	2,275	1,739	1,760	2,070	2,705	3,000	4,666	3,351	1,781	1,402	1,400	1,825
70% Exceedance	2,128	1,634	1,628	1,758	2,247	2,215	3,204	2,285	1,445	1,194	1,334	1,747
80% Exceedance	1,961	1,513	1,500	1,538	1,852	1,720	2,567	2,054	1,315	1,099	1,236	1,658
90% Exceedance	1,684	1,377	1,339	1,348	1,583	1,536	1,574	1,416	993	930	1,059	1,463
Full Simulation Period Average[a]	2,523	2,333	3,089	4,732	6,350	6,636	7,142	5,620	4,501	3,245	2,088	2,323
Wet Water Years (29%)	3,200	3,525	5,005	9,319	13,057	14,636	13,555	11,627	11,276	7,744	3,517	3,393
Above Normal Water Years (20%)	2,858	2,184	2,590	5,309	6,930	5,914	7,824	4,981	2,494	2,054	2,232	2,481
Below Normal Water Years (16%)	2,349	2,124	2,917	2,269	2,772	3,235	5,357	3,777	1,913	1,406	1,406	1,824
Dry Water Years (16%)	2,064	1,670	2,452	2,122	2,472	2,474	3,213	2,288	1,395	1,196	1,329	1,775
Critical Water Years (20%)	1,654	1,398	1,394	1,397	1,766	1,505	1,487	1,452	970	849	971	1,411

Table 5B3-8-1c. San Joaquin River at Vernalis (60-20-20), Alternative 1A 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
20% Exceedance	0	0	0	0	0	0	0	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	1	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	1	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	0	0	0	0	0	0	0	0
Wet Water Years (29%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal Water Years (20%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal Water Years (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry Water Years (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical Water Years (20%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-8-2a. San Joaquin River at Vernalis (60-20-20), No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,290	2,898	4,217	10,826	13,951	14,996	13,638	12,723	12,058	7,285	3,349	3,276
20% Exceedance	2,913	2,582	2,710	5,216	9,726	9,482	10,138	7,705	7,680	3,691	2,800	2,724
30% Exceedance	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,662	3,179	2,643	2,484	2,532
40% Exceedance	2,622	2,006	2,029	2,657	4,429	4,840	7,319	4,508	2,421	1,737	2,198	2,383
50% Exceedance	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,017	2,110	1,546	1,476	1,935
60% Exceedance	2,275	1,739	1,760	2,070	2,705	3,000	4,666	3,350	1,782	1,402	1,400	1,825
70% Exceedance	2,128	1,634	1,628	1,758	2,247	2,215	3,204	2,285	1,445	1,195	1,334	1,747
80% Exceedance	1,961	1,513	1,500	1,538	1,852	1,720	2,567	2,054	1,315	1,099	1,236	1,658
90% Exceedance	1,684	1,377	1,339	1,348	1,583	1,536	1,574	1,416	993	930	1,059	1,463
Full Simulation Period Average[a]	2,523	2,333	3,089	4,732	6,350	6,636	7,142	5,620	4,501	3,245	2,088	2,323
Wet Water Years (29%)	3,200	3,525	5,005	9,319	13,057	14,636	13,555	11,627	11,276	7,744	3,517	3,393
Above Normal Water Years (20%)	2,858	2,184	2,590	5,309	6,930	5,914	7,823	4,981	2,494	2,054	2,232	2,481
Below Normal Water Years (16%)	2,349	2,124	2,917	2,269	2,772	3,235	5,357	3,777	1,913	1,406	1,405	1,824
Dry Water Years (16%)	2,064	1,670	2,452	2,122	2,472	2,474	3,213	2,288	1,395	1,196	1,329	1,775
Critical Water Years (20%)	1,654	1,398	1,394	1,397	1,766	1,505	1,487	1,452	970	849	971	1,411

Table 5B3-8-2b. San Joaquin River at Vernalis (60-20-20), Alternative 1B 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,290	2,898	4,217	10,826	13,951	14,996	13,638	12,723	12,058	7,285	3,349	3,276
20% Exceedance	2,913	2,582	2,710	5,216	9,726	9,482	10,138	7,705	7,680	3,691	2,800	2,724
30% Exceedance	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,663	3,179	2,643	2,484	2,532
40% Exceedance	2,622	2,006	2,029	2,657	4,429	4,840	7,319	4,508	2,421	1,737	2,198	2,383
50% Exceedance	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,017	2,110	1,546	1,476	1,935
60% Exceedance	2,275	1,739	1,760	2,070	2,705	3,000	4,666	3,351	1,781	1,402	1,400	1,825
70% Exceedance	2,128	1,634	1,628	1,758	2,247	2,215	3,204	2,285	1,445	1,195	1,334	1,747
80% Exceedance	1,961	1,513	1,500	1,538	1,852	1,720	2,567	2,054	1,315	1,099	1,236	1,658
90% Exceedance	1,684	1,377	1,339	1,348	1,583	1,536	1,575	1,419	991	930	1,059	1,463
Full Simulation Period Average[a]	2,523	2,333	3,089	4,732	6,350	6,636	7,142	5,620	4,501	3,245	2,088	2,323
Wet Water Years (29%)	3,200	3,525	5,005	9,319	13,057	14,636	13,555	11,627	11,276	7,744	3,517	3,393
Above Normal Water Years (20%)	2,858	2,184	2,590	5,309	6,930	5,914	7,824	4,981	2,494	2,054	2,232	2,481
Below Normal Water Years (16%)	2,349	2,124	2,917	2,269	2,772	3,236	5,357	3,777	1,913	1,407	1,406	1,824
Dry Water Years (16%)	2,064	1,670	2,452	2,122	2,472	2,474	3,213	2,288	1,395	1,196	1,329	1,775
Critical Water Years (20%)	1,654	1,398	1,394	1,397	1,766	1,505	1,487	1,452	970	849	972	1,411

Table 5B3-8-2c. San Joaquin River at Vernalis (60-20-20), Alternative 1B 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
20% Exceedance	0	0	0	0	0	0	0	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	1	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	1	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	2	3	-2	1	0	0
Full Simulation Period Average[a]	0	0	0	0	0	0	0	0	0	0	0	0
Wet Water Years (29%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal Water Years (20%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal Water Years (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry Water Years (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical Water Years (20%)	0	0	0	0	0	0	0	0	0	1	0	0

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-8-3a. San Joaquin River at Vernalis (60-20-20), No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,290	2,898	4,217	10,826	13,951	14,996	13,638	12,723	12,058	7,285	3,349	3,276
20% Exceedance	2,913	2,582	2,710	5,216	9,726	9,482	10,138	7,705	7,680	3,691	2,800	2,724
30% Exceedance	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,662	3,179	2,643	2,484	2,532
40% Exceedance	2,622	2,006	2,029	2,657	4,429	4,840	7,319	4,508	2,421	1,737	2,198	2,383
50% Exceedance	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,017	2,110	1,546	1,476	1,935
60% Exceedance	2,275	1,739	1,760	2,070	2,705	3,000	4,666	3,350	1,782	1,402	1,400	1,825
70% Exceedance	2,128	1,634	1,628	1,758	2,247	2,215	3,204	2,285	1,445	1,195	1,334	1,747
80% Exceedance	1,961	1,513	1,500	1,538	1,852	1,720	2,567	2,054	1,315	1,099	1,236	1,658
90% Exceedance	1,684	1,377	1,339	1,348	1,583	1,536	1,574	1,416	993	930	1,059	1,463
Full Simulation Period Average[a]	2,523	2,333	3,089	4,732	6,350	6,636	7,142	5,620	4,501	3,245	2,088	2,323
Wet Water Years (29%)	3,200	3,525	5,005	9,319	13,057	14,636	13,555	11,627	11,276	7,744	3,517	3,393
Above Normal Water Years (20%)	2,858	2,184	2,590	5,309	6,930	5,914	7,823	4,981	2,494	2,054	2,232	2,481
Below Normal Water Years (16%)	2,349	2,124	2,917	2,269	2,772	3,235	5,357	3,777	1,913	1,406	1,405	1,824
Dry Water Years (16%)	2,064	1,670	2,452	2,122	2,472	2,474	3,213	2,288	1,395	1,196	1,329	1,775
Critical Water Years (20%)	1,654	1,398	1,394	1,397	1,766	1,505	1,487	1,452	970	849	971	1,411

Table 5B3-8-3b. San Joaquin River at Vernalis (60-20-20), Alternative 2 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,290	2,898	4,217	10,826	13,951	14,996	13,638	12,723	12,058	7,285	3,349	3,276
20% Exceedance	2,913	2,582	2,710	5,216	9,726	9,482	10,138	7,705	7,680	3,691	2,800	2,724
30% Exceedance	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,662	3,179	2,643	2,484	2,532
40% Exceedance	2,622	2,006	2,029	2,657	4,429	4,840	7,319	4,508	2,421	1,737	2,198	2,383
50% Exceedance	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,017	2,110	1,546	1,476	1,935
60% Exceedance	2,275	1,739	1,760	2,070	2,705	3,000	4,666	3,351	1,781	1,402	1,400	1,825
70% Exceedance	2,128	1,634	1,628	1,758	2,247	2,215	3,204	2,285	1,445	1,194	1,334	1,747
80% Exceedance	1,961	1,513	1,500	1,538	1,852	1,720	2,567	2,054	1,315	1,099	1,236	1,658
90% Exceedance	1,684	1,377	1,339	1,348	1,583	1,536	1,574	1,416	993	930	1,059	1,463
Full Simulation Period Average[a]	2,523	2,333	3,089	4,732	6,350	6,636	7,142	5,620	4,501	3,245	2,088	2,323
Wet Water Years (29%)	3,200	3,525	5,005	9,319	13,057	14,636	13,555	11,627	11,276	7,744	3,517	3,393
Above Normal Water Years (20%)	2,858	2,184	2,590	5,309	6,930	5,914	7,823	4,981	2,495	2,054	2,232	2,481
Below Normal Water Years (16%)	2,349	2,124	2,917	2,269	2,772	3,235	5,357	3,777	1,913	1,406	1,406	1,824
Dry Water Years (16%)	2,064	1,670	2,452	2,122	2,472	2,474	3,213	2,288	1,395	1,196	1,329	1,775
Critical Water Years (20%)	1,654	1,398	1,394	1,397	1,766	1,505	1,487	1,452	970	849	971	1,411

Table 5B3-8-3c. San Joaquin River at Vernalis (60-20-20), Alternative 2 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
20% Exceedance	0	0	0	0	0	0	0	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	1	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	1	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	0	0	0	0	0	0	0	0
Wet Water Years (29%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal Water Years (20%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal Water Years (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry Water Years (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical Water Years (20%)	0	0	0	0	0	0	0	0	0	0	0	0

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 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 5B3-8-4a. San Joaquin River at Vernalis (60-20-20), No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,290	2,898	4,217	10,826	13,951	14,996	13,638	12,723	12,058	7,285	3,349	3,276
20% Exceedance	2,913	2,582	2,710	5,216	9,726	9,482	10,138	7,705	7,680	3,691	2,800	2,724
30% Exceedance	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,662	3,179	2,643	2,484	2,532
40% Exceedance	2,622	2,006	2,029	2,657	4,429	4,840	7,319	4,508	2,421	1,737	2,198	2,383
50% Exceedance	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,017	2,110	1,546	1,476	1,935
60% Exceedance	2,275	1,739	1,760	2,070	2,705	3,000	4,666	3,350	1,782	1,402	1,400	1,825
70% Exceedance	2,128	1,634	1,628	1,758	2,247	2,215	3,204	2,285	1,445	1,195	1,334	1,747
80% Exceedance	1,961	1,513	1,500	1,538	1,852	1,720	2,567	2,054	1,315	1,099	1,236	1,658
90% Exceedance	1,684	1,377	1,339	1,348	1,583	1,536	1,574	1,416	993	930	1,059	1,463
Full Simulation Period Average[a]	2,523	2,333	3,089	4,732	6,350	6,636	7,142	5,620	4,501	3,245	2,088	2,323
Wet Water Years (29%)	3,200	3,525	5,005	9,319	13,057	14,636	13,555	11,627	11,276	7,744	3,517	3,393
Above Normal Water Years (20%)	2,858	2,184	2,590	5,309	6,930	5,914	7,823	4,981	2,494	2,054	2,232	2,481
Below Normal Water Years (16%)	2,349	2,124	2,917	2,269	2,772	3,235	5,357	3,777	1,913	1,406	1,405	1,824
Dry Water Years (16%)	2,064	1,670	2,452	2,122	2,472	2,474	3,213	2,288	1,395	1,196	1,329	1,775
Critical Water Years (20%)	1,654	1,398	1,394	1,397	1,766	1,505	1,487	1,452	970	849	971	1,411

Table 5B3-8-4b. San Joaquin River at Vernalis (60-20-20), Alternative 3 051722, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,290	2,898	4,217	10,826	13,951	14,996	13,638	12,723	12,058	7,285	3,349	3,276
20% Exceedance	2,913	2,582	2,710	5,216	9,726	9,482	10,138	7,705	7,680	3,691	2,800	2,724
30% Exceedance	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,663	3,179	2,643	2,484	2,532
40% Exceedance	2,622	2,006	2,029	2,657	4,429	4,840	7,319	4,507	2,419	1,737	2,197	2,383
50% Exceedance	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,016	2,109	1,546	1,476	1,935
60% Exceedance	2,275	1,739	1,760	2,070	2,705	3,000	4,666	3,351	1,781	1,402	1,400	1,825
70% Exceedance	2,129	1,634	1,628	1,759	2,247	2,215	3,205	2,285	1,445	1,195	1,334	1,747
80% Exceedance	1,961	1,513	1,500	1,537	1,853	1,720	2,567	2,058	1,315	1,103	1,236	1,659
90% Exceedance	1,684	1,377	1,339	1,348	1,584	1,536	1,576	1,419	993	930	1,059	1,464
Full Simulation Period Average[a]	2,523	2,333	3,089	4,732	6,350	6,636	7,143	5,620	4,501	3,246	2,088	2,323
Wet Water Years (29%)	3,200	3,526	5,005	9,319	13,057	14,636	13,555	11,627	11,276	7,744	3,517	3,393
Above Normal Water Years (20%)	2,858	2,184	2,590	5,309	6,930	5,914	7,823	4,981	2,494	2,053	2,231	2,481
Below Normal Water Years (16%)	2,349	2,124	2,917	2,269	2,772	3,236	5,357	3,777	1,913	1,407	1,406	1,824
Dry Water Years (16%)	2,064	1,670	2,453	2,122	2,472	2,474	3,213	2,288	1,396	1,197	1,330	1,776
Critical Water Years (20%)	1,655	1,398	1,394	1,397	1,766	1,505	1,487	1,452	971	850	972	1,412

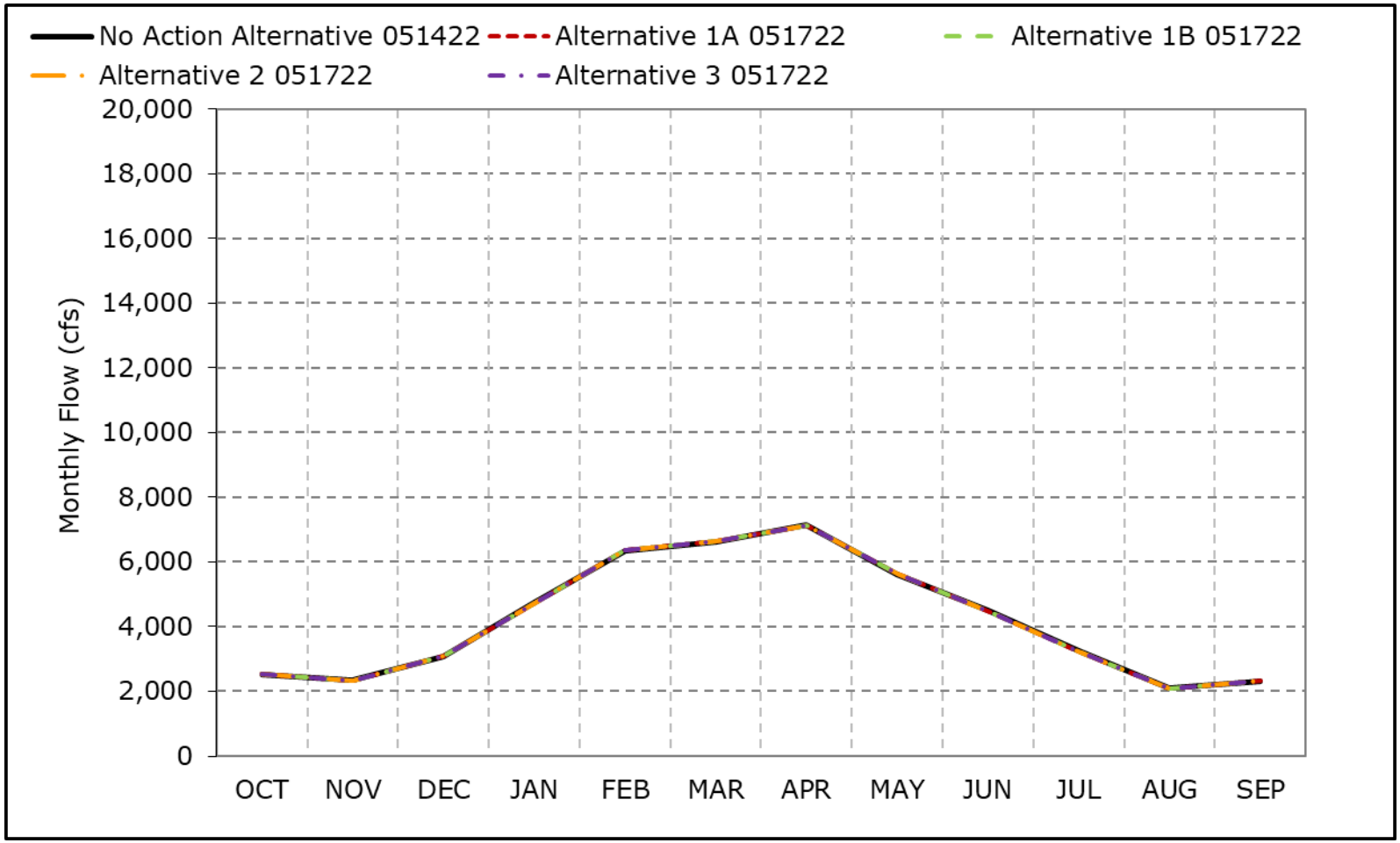
Table 5B3-8-4c. San Joaquin River at Vernalis (60-20-20), Alternative 3 051722 minus No Action Alternative 051422, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
20% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
30% Exceedance	0	0	0	0	0	0	0	1	0	0	0	0
40% Exceedance	0	0	0	0	1	0	0	0	-2	0	-1	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	1	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	1	0	0	0	0	0	1	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	4	0	4	0	0
90% Exceedance	0	0	0	0	0	0	2	3	0	1	0	0
Full Simulation Period Average[a]	0	0	0	0	0	0	0	0	0	0	0	0
Wet Water Years (29%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal Water Years (20%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal Water Years (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry Water Years (16%)	0	0	0	0	0	0	0	0	1	1	0	0
Critical Water Years (20%)	0	0	0	0	0	0	0	1	1	1	1	0

[a] Based on the 82-year simulation period.

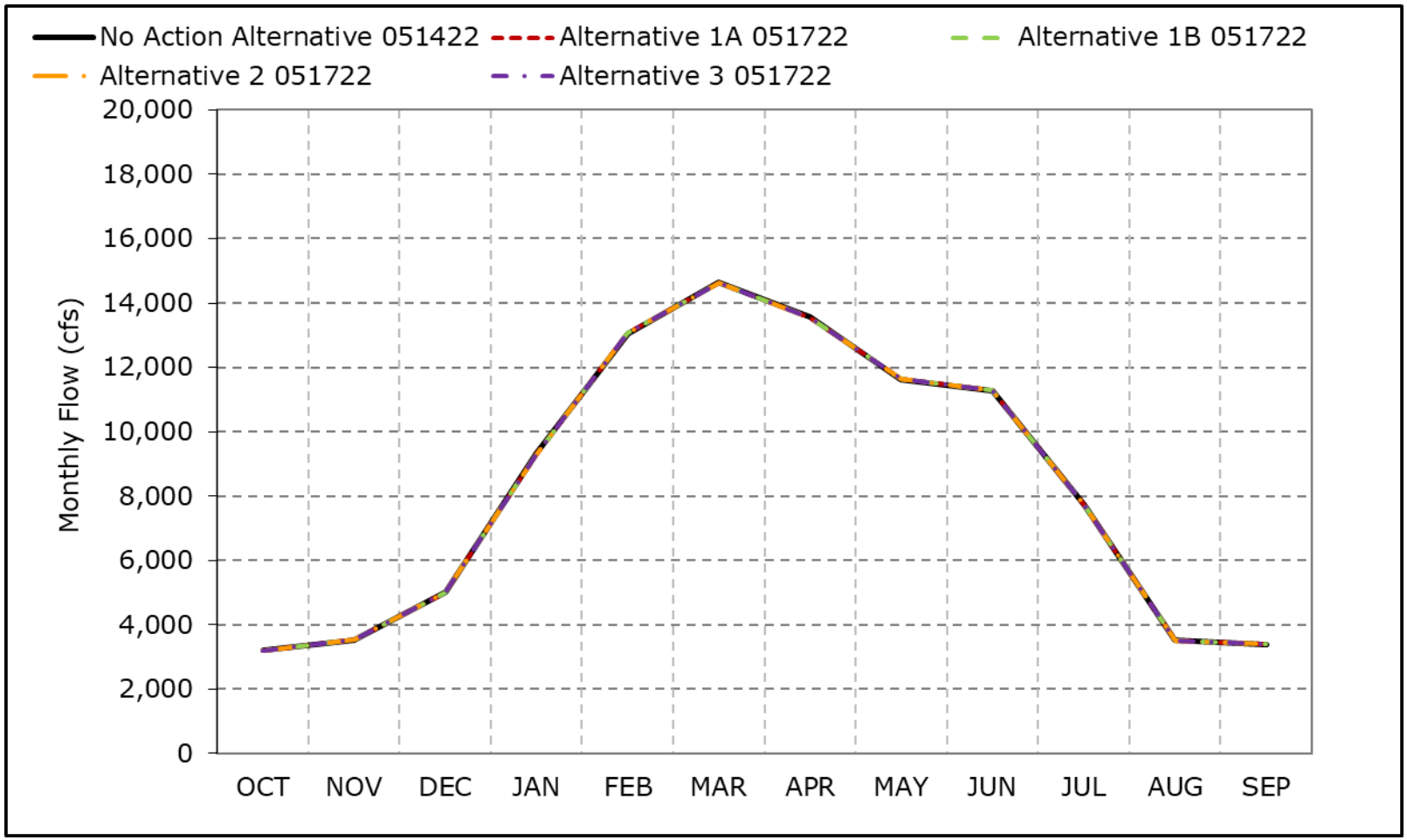
* All scenarios are simulated at current climate condition and 0 cm sea level rise.
* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* Water Year Types results are displayed with calendar year - year type sorting.

Figure 5B3-8-1. San Joaquin River at Vernalis (60-20-20), Long-Term Average Flow



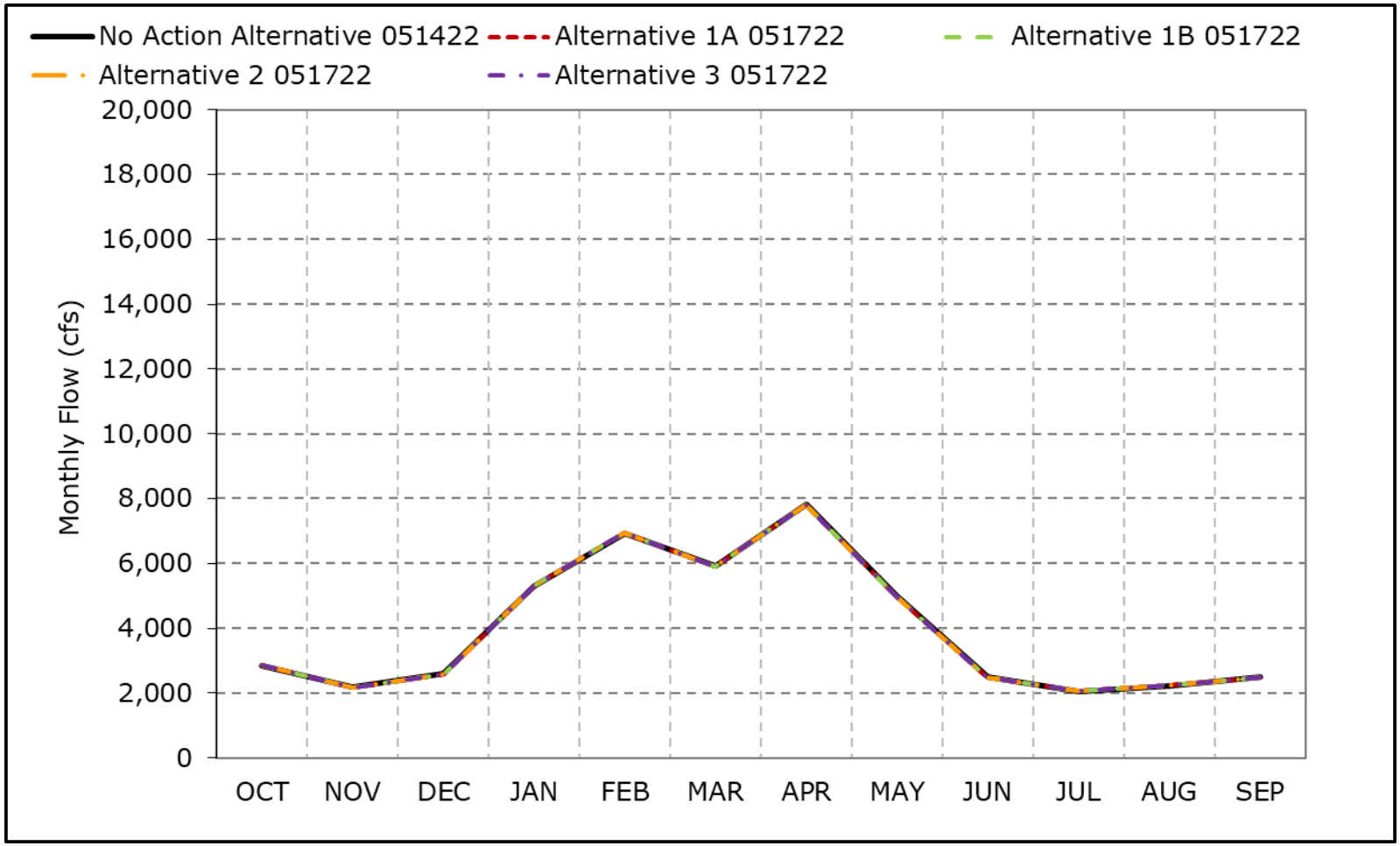
*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-8-2. San Joaquin River at Vernalis (60-20-20), Wet Year Average Flow



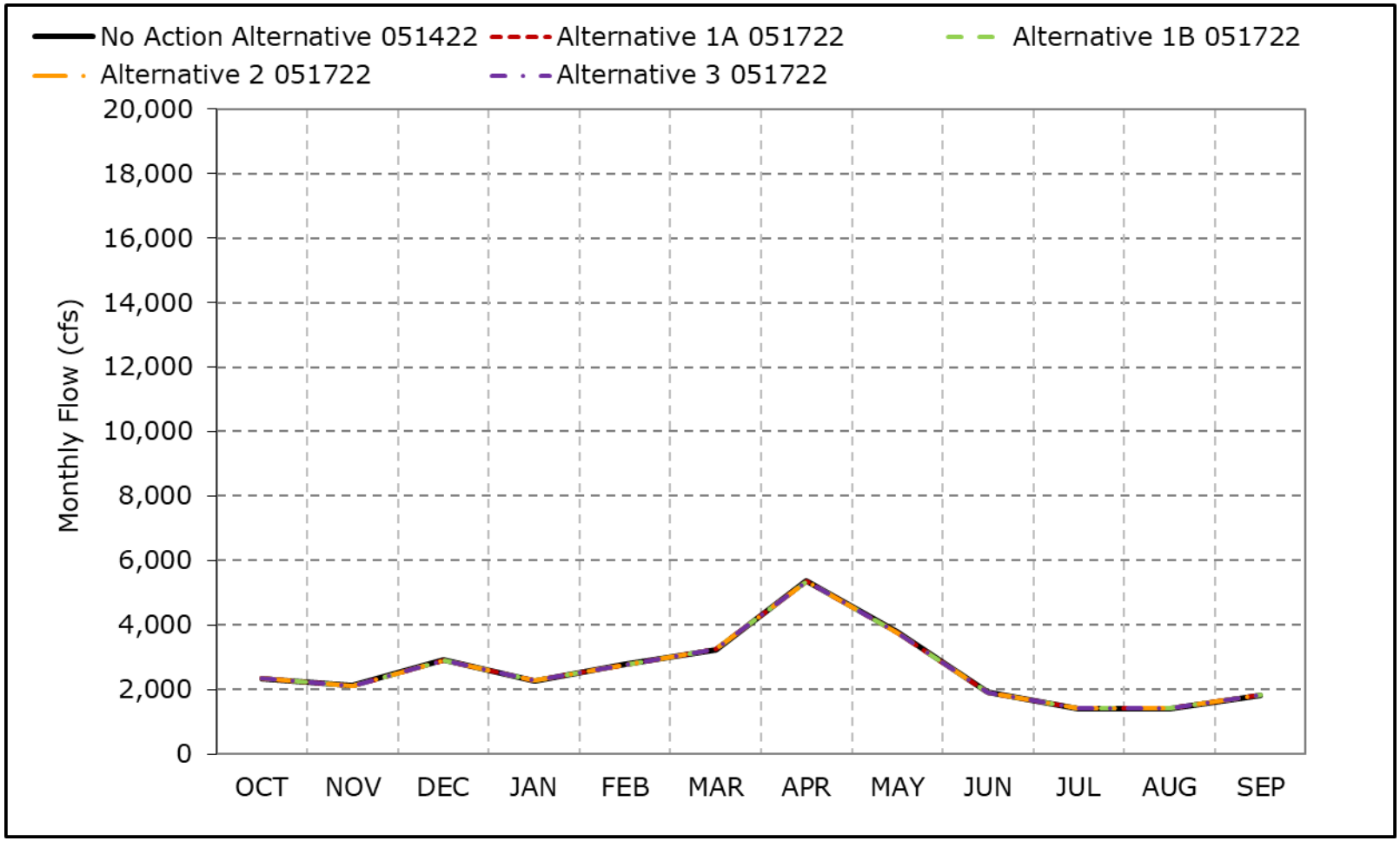
*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-8-3. San Joaquin River at Vernalis (60-20-20), Above Normal Year Average Flow



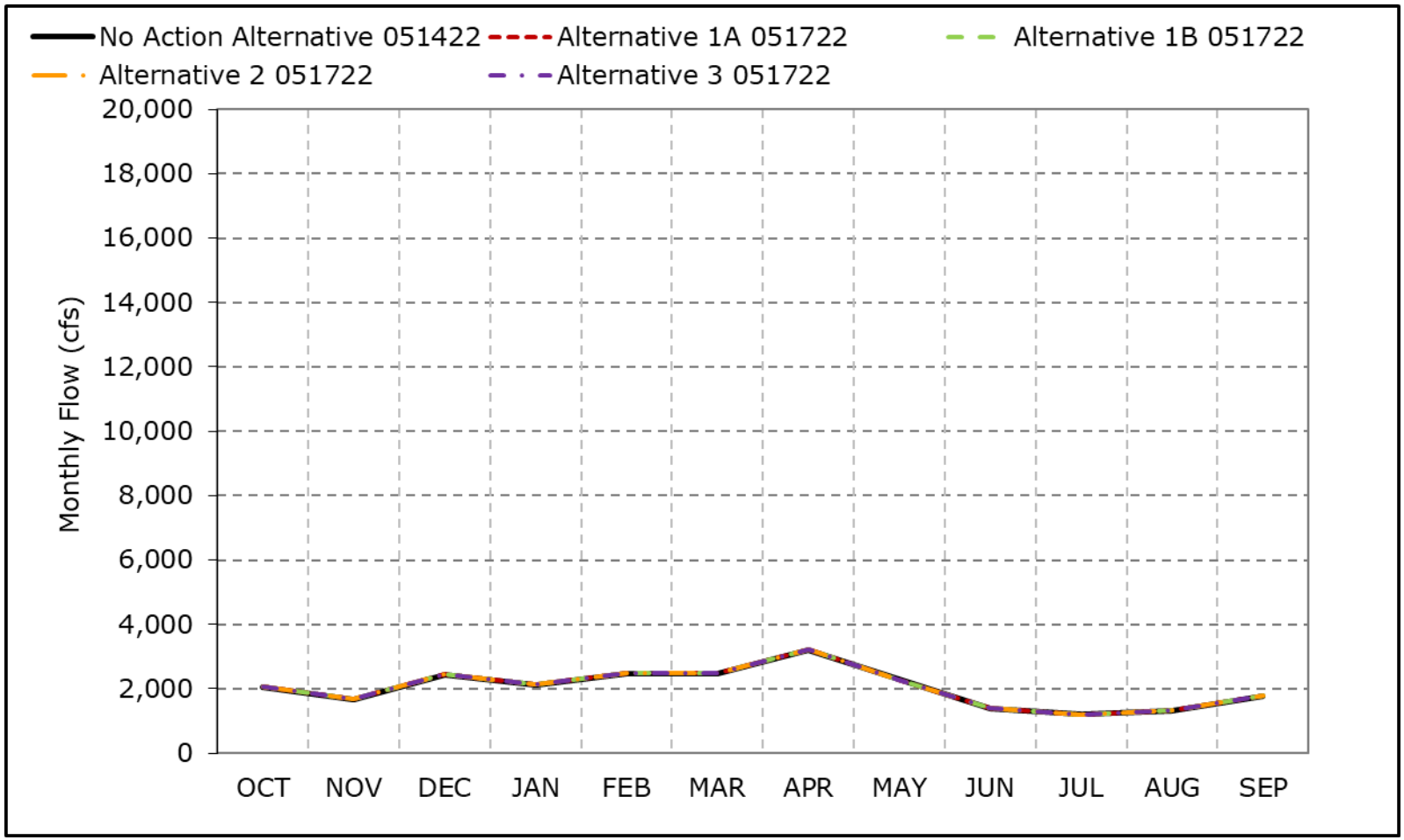
*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-8-4. San Joaquin River at Vernalis (60-20-20), Below Normal Year Average Flow



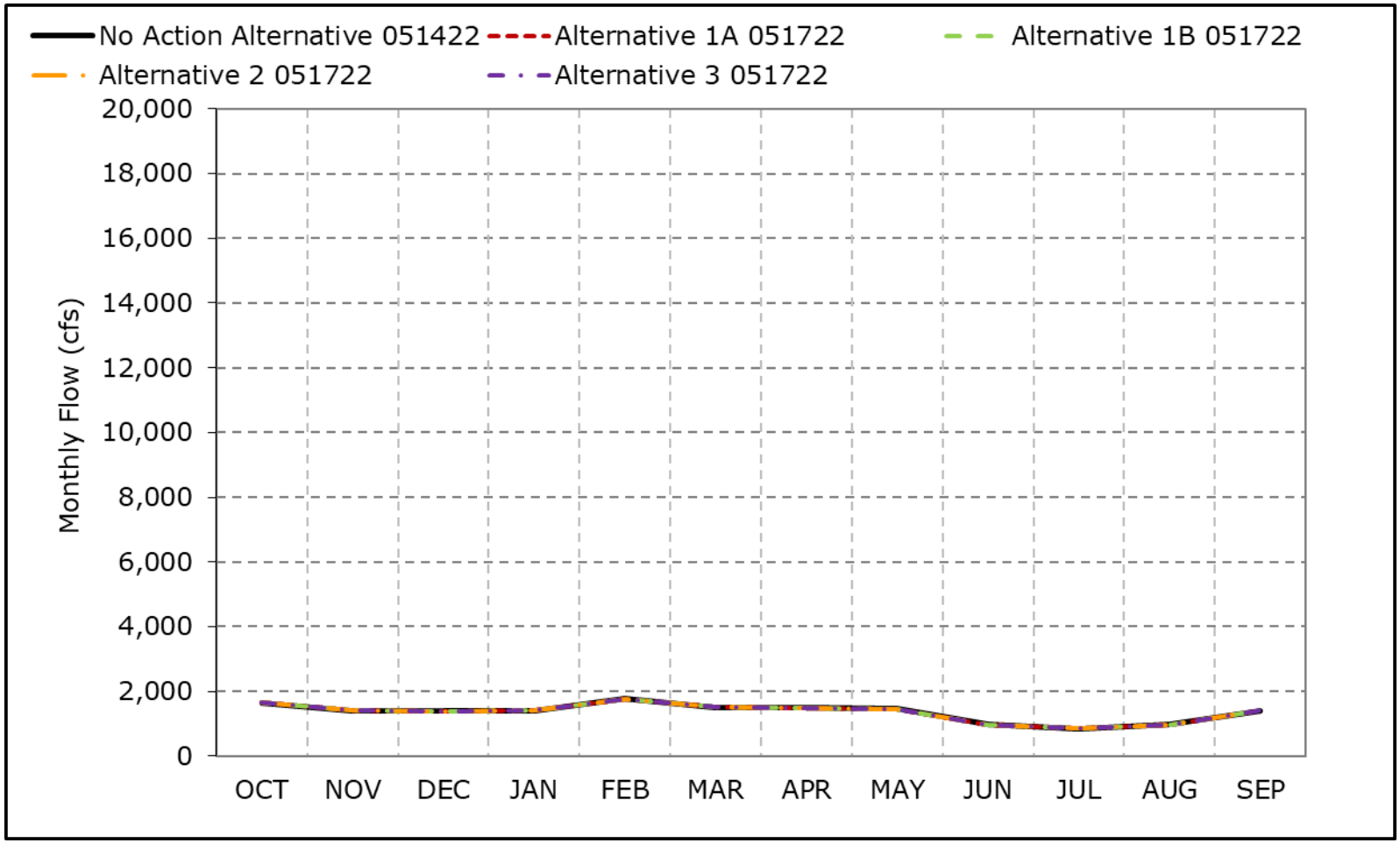
*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-8-5. San Joaquin River at Vernalis (60-20-20), Dry Year Average Flow



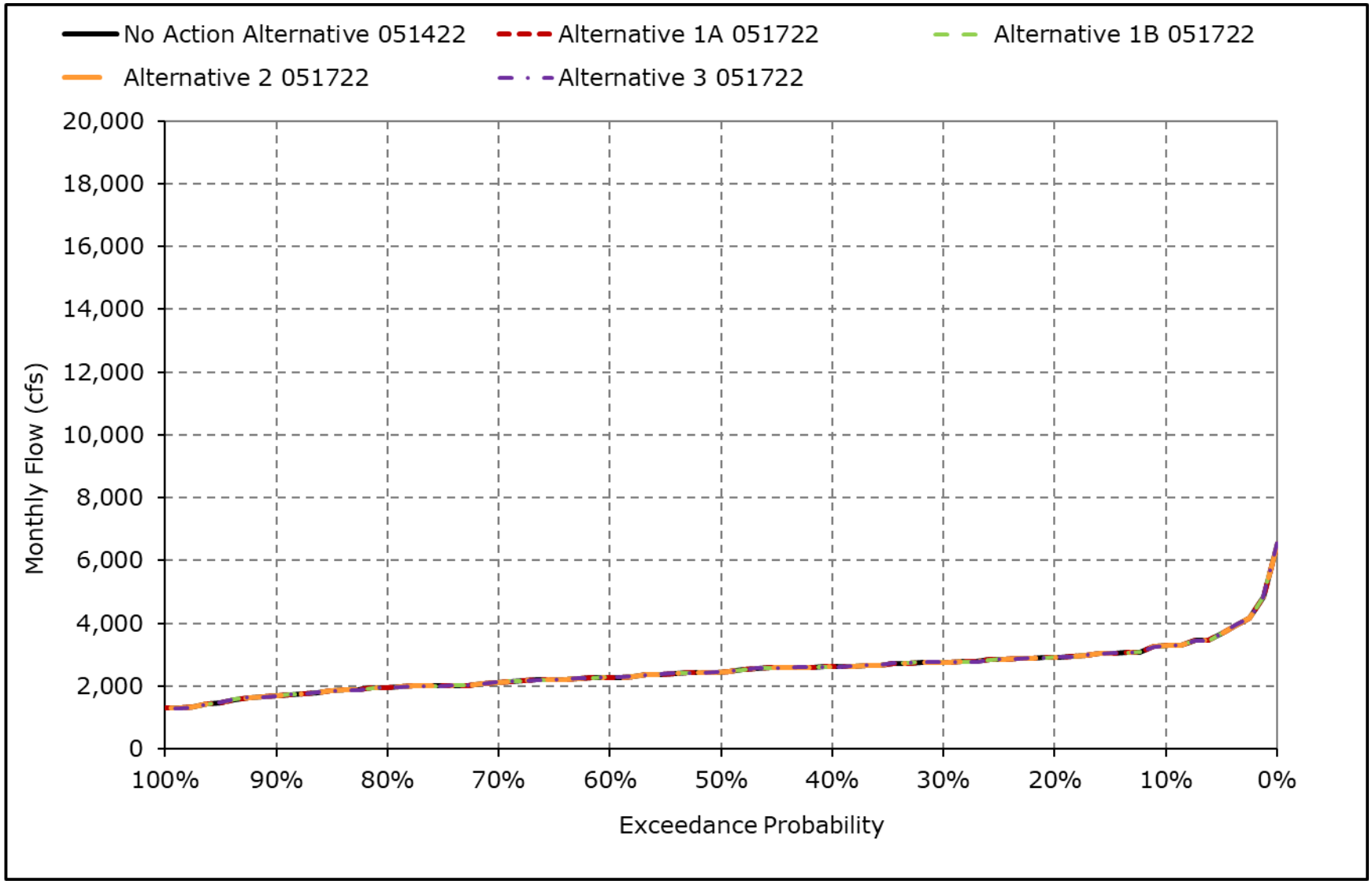
*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-8-6. San Joaquin River at Vernalis (60-20-20), Critical Year Average Flow



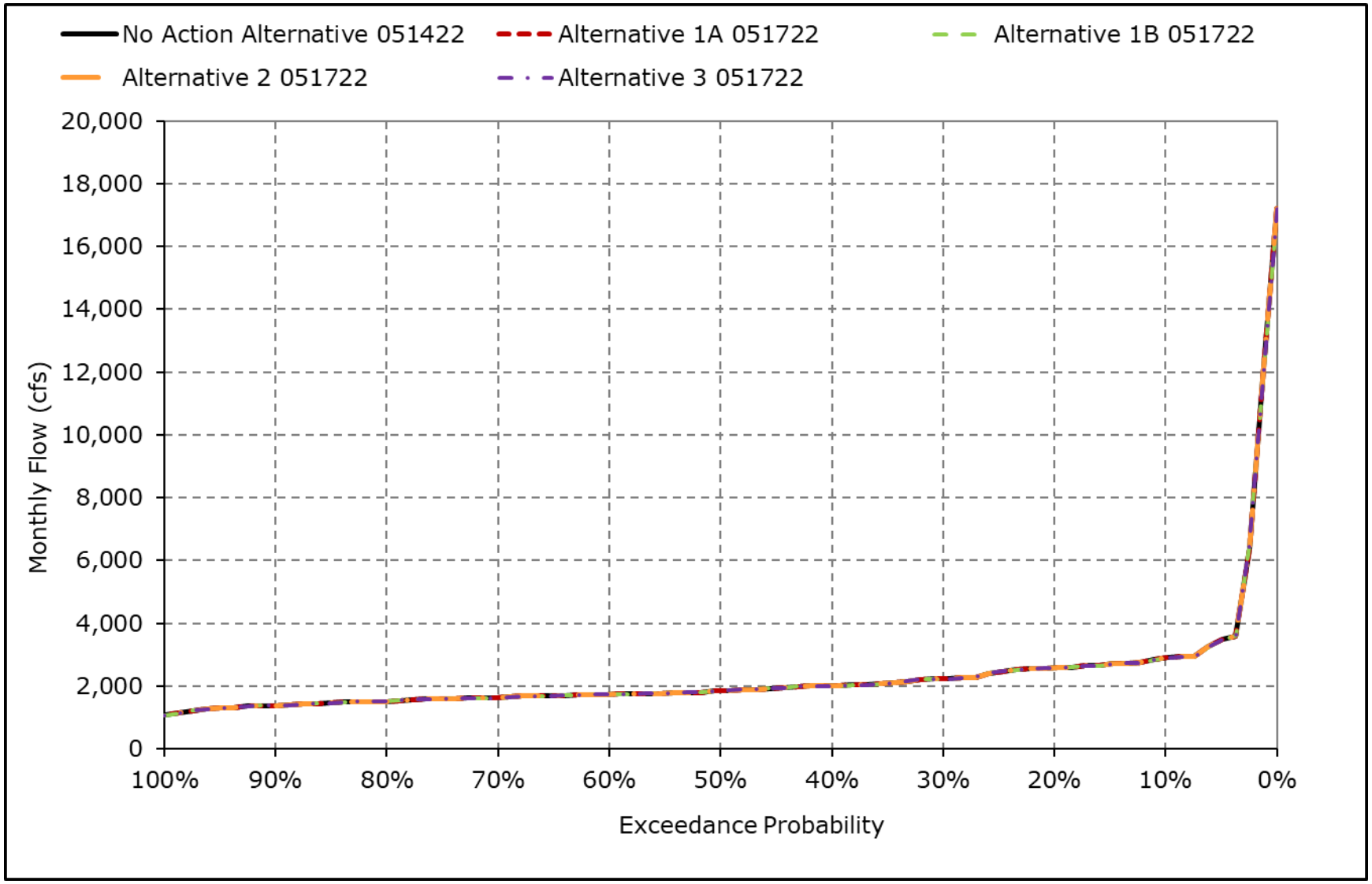
*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-8-7. San Joaquin River at Vernalis (60-20-20), October



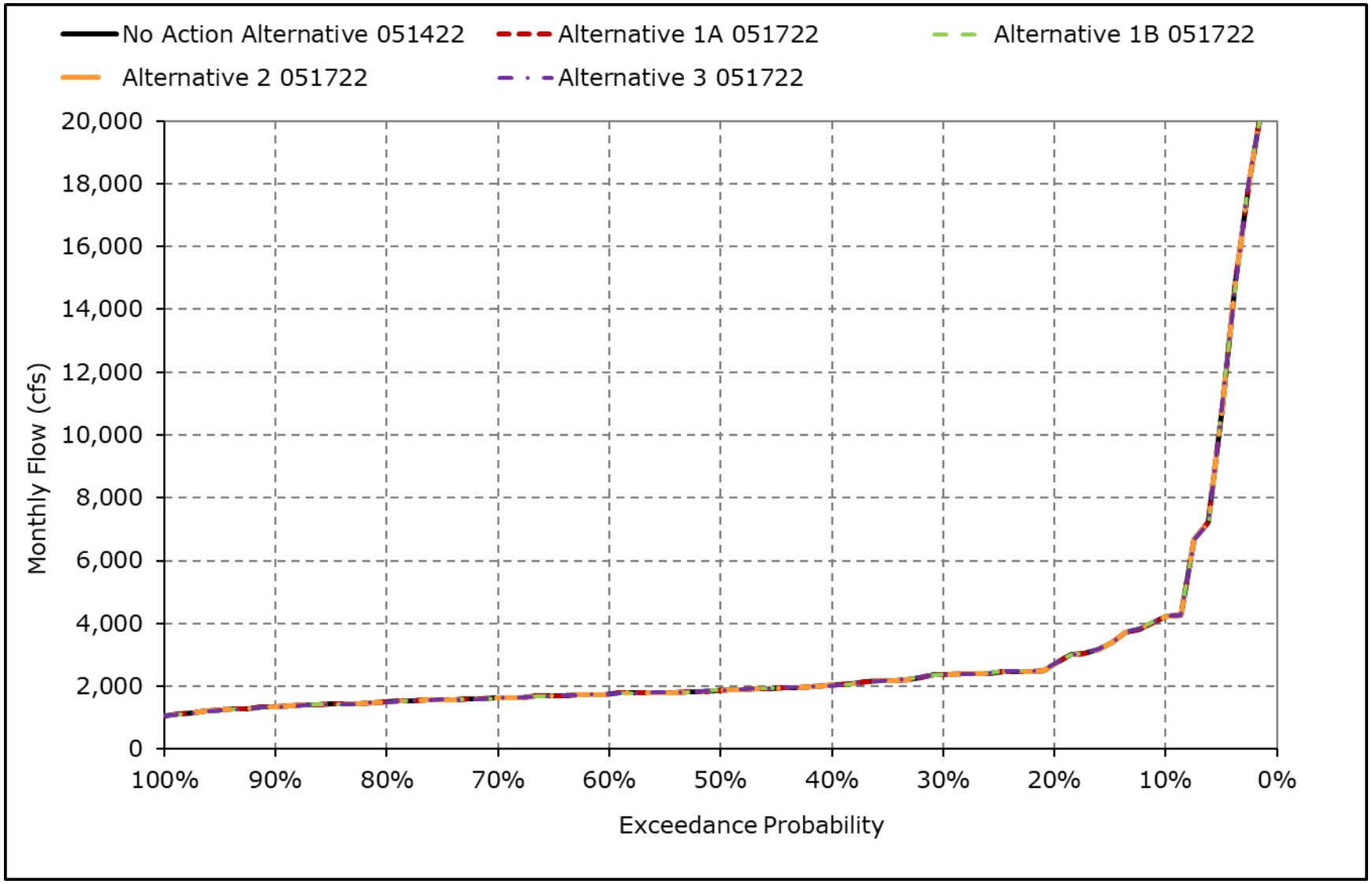
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-8-8. San Joaquin River at Vernalis (60-20-20), November



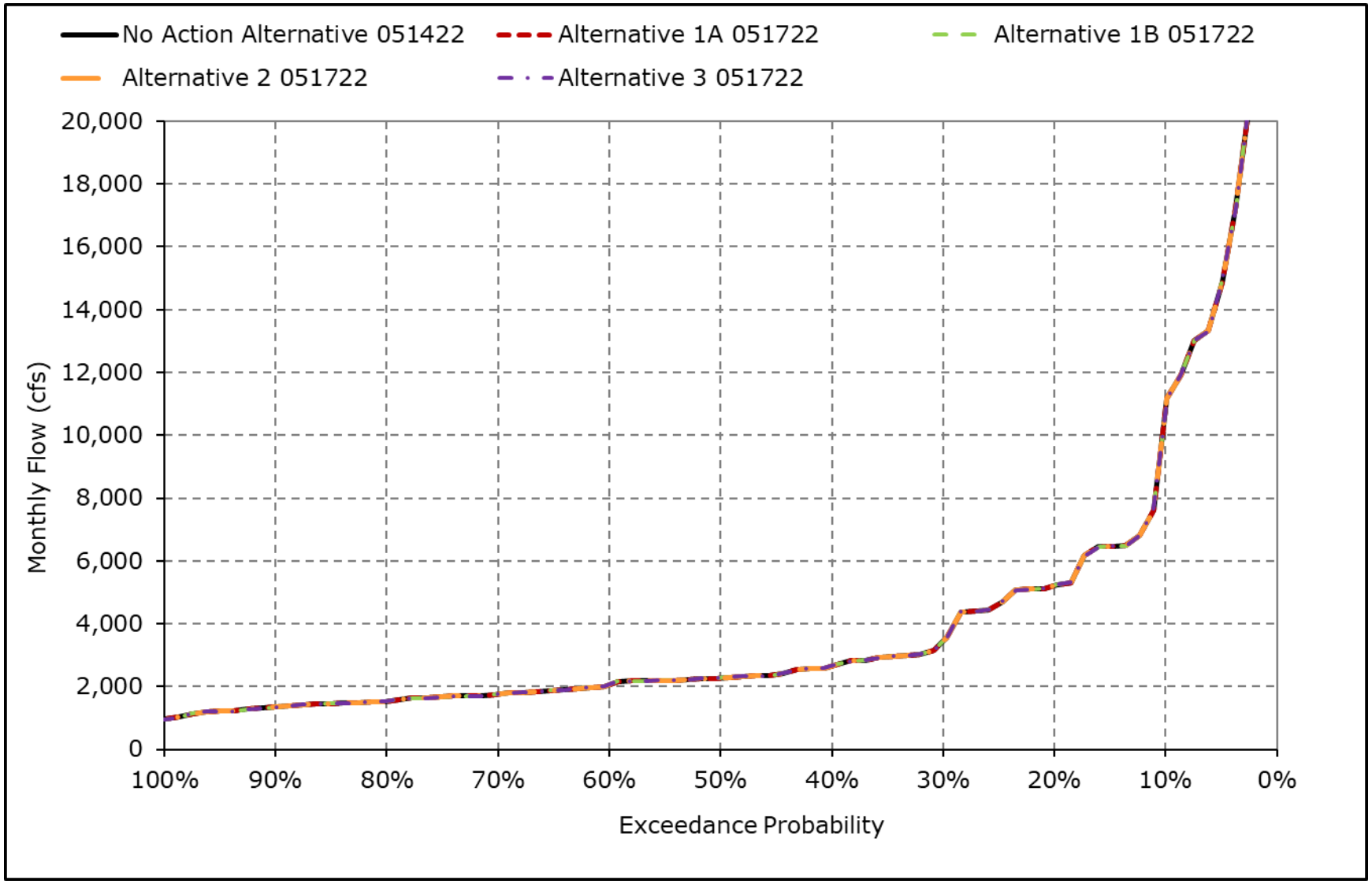
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-8-9. San Joaquin River at Vernalis (60-20-20), December



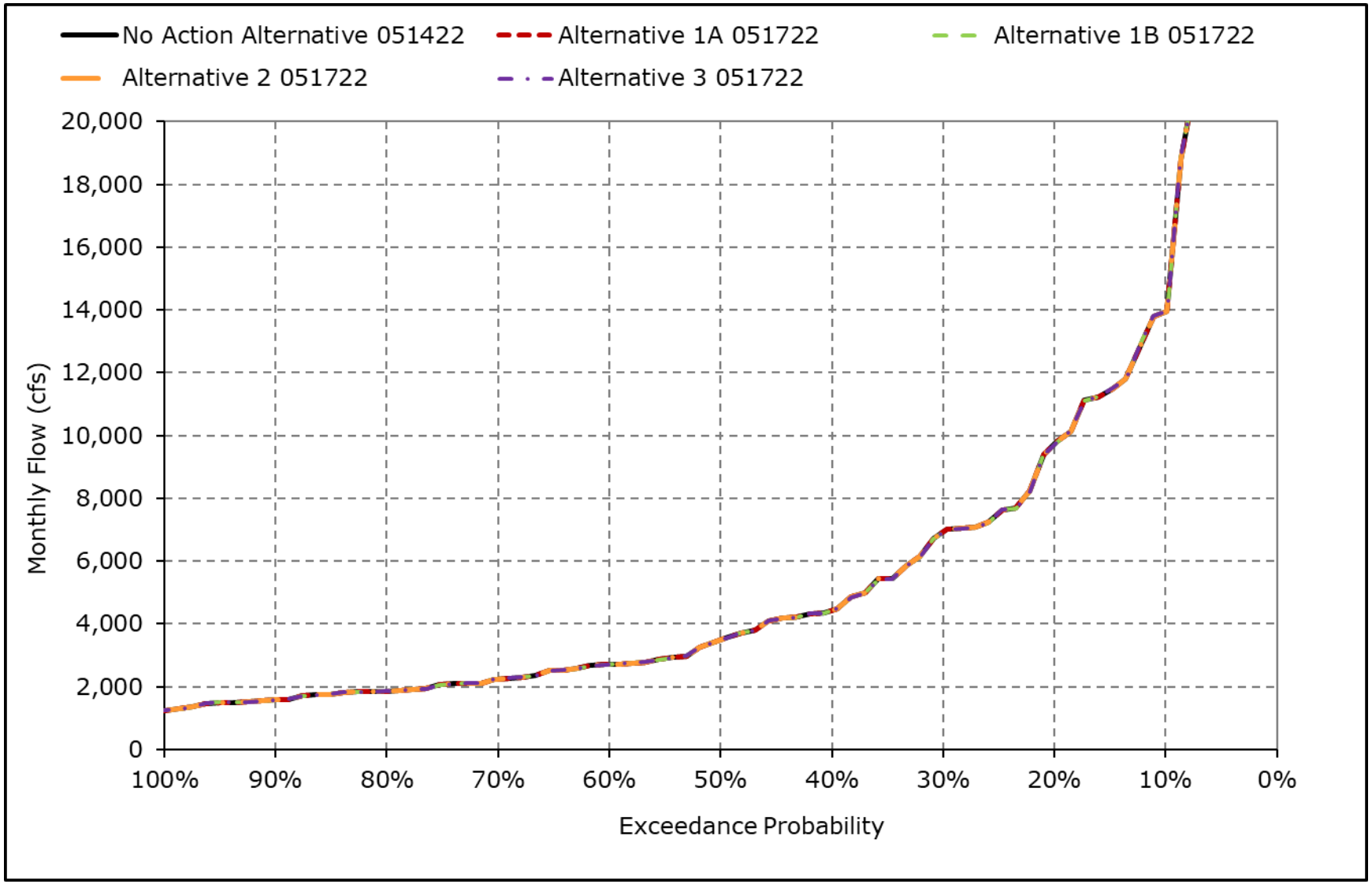
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-8-10. San Joaquin River at Vernalis (60-20-20), January



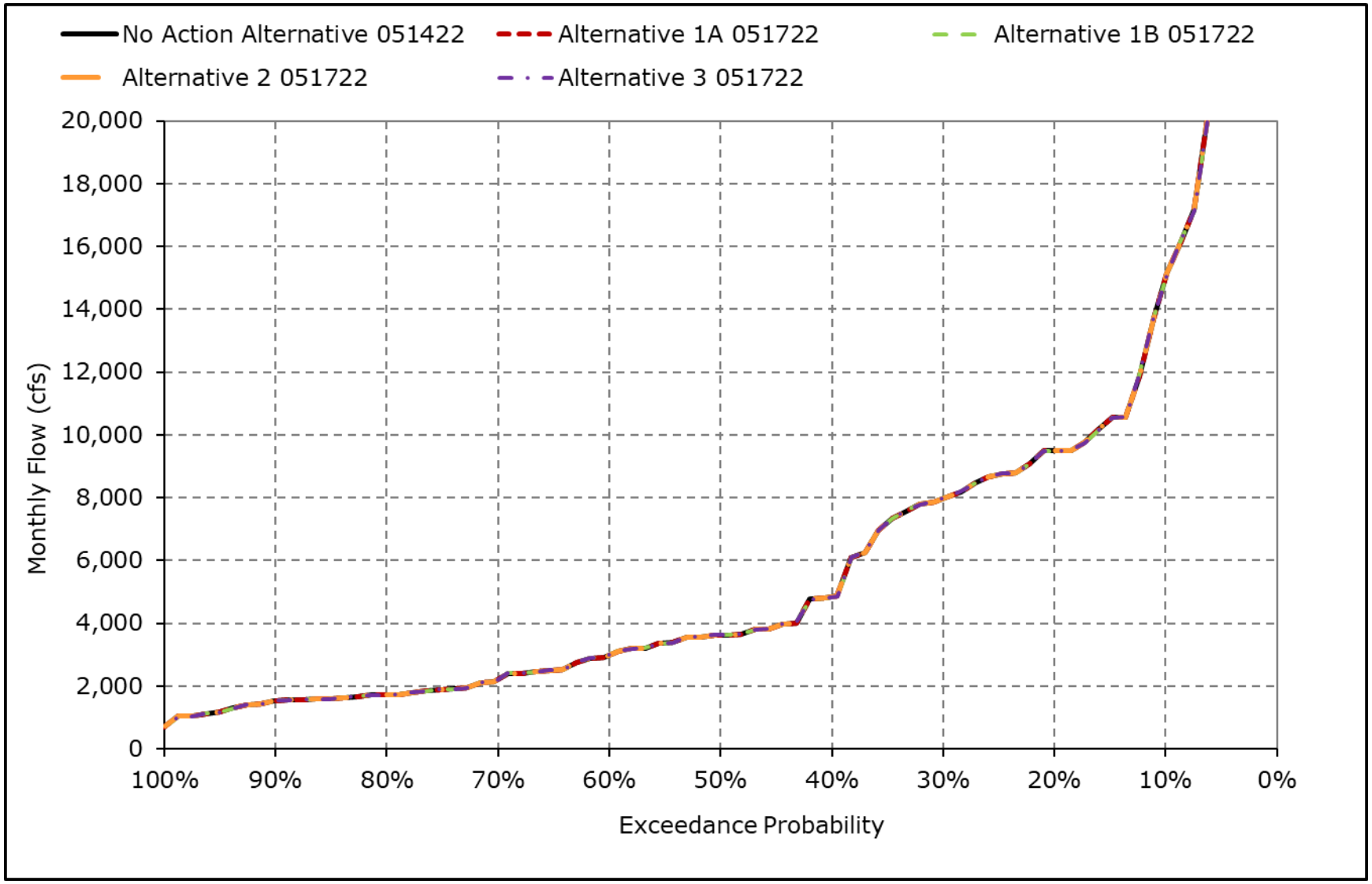
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-8-11. San Joaquin River at Vernalis (60-20-20), February



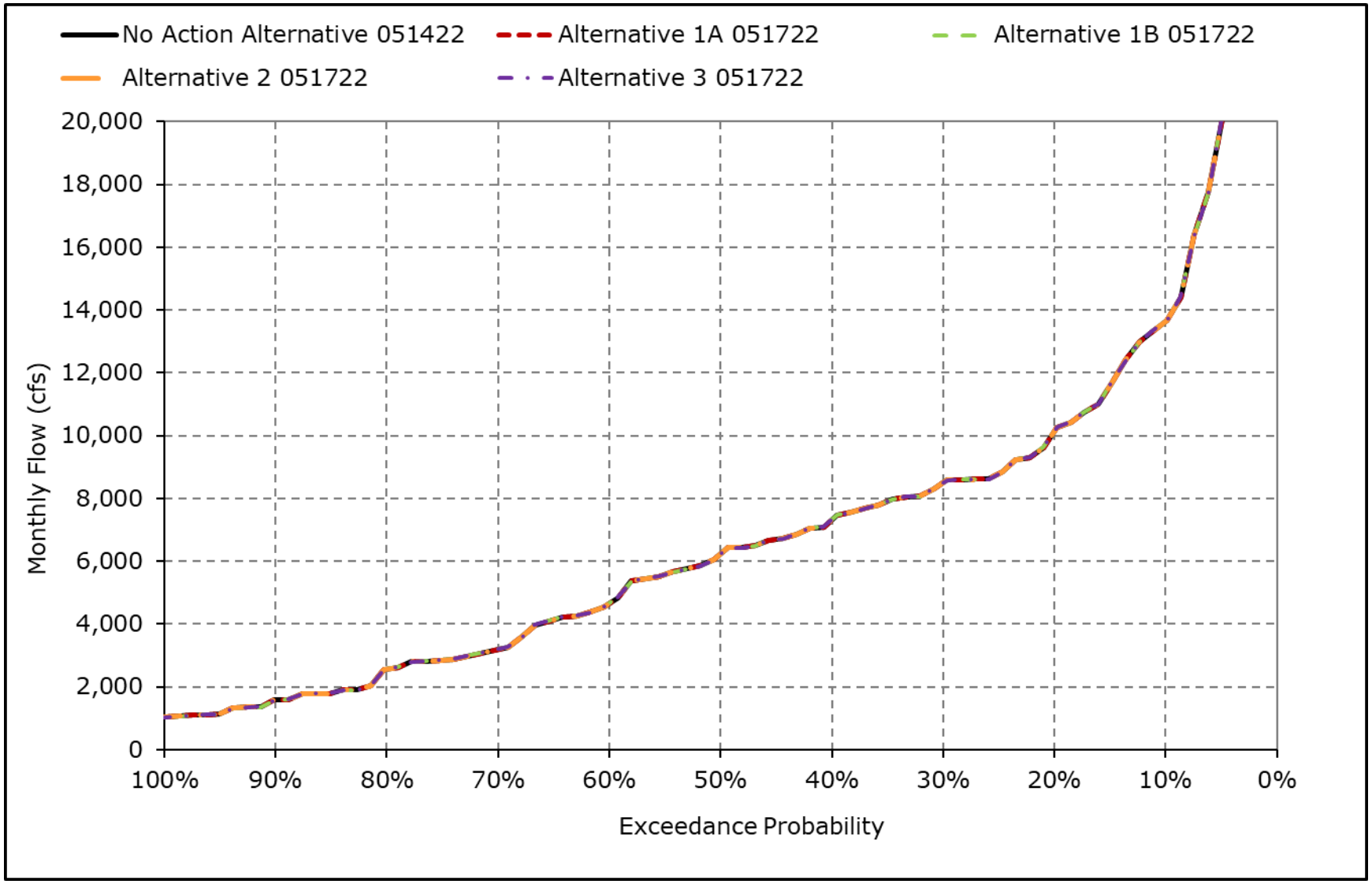
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-8-12. San Joaquin River at Vernalis (60-20-20), March



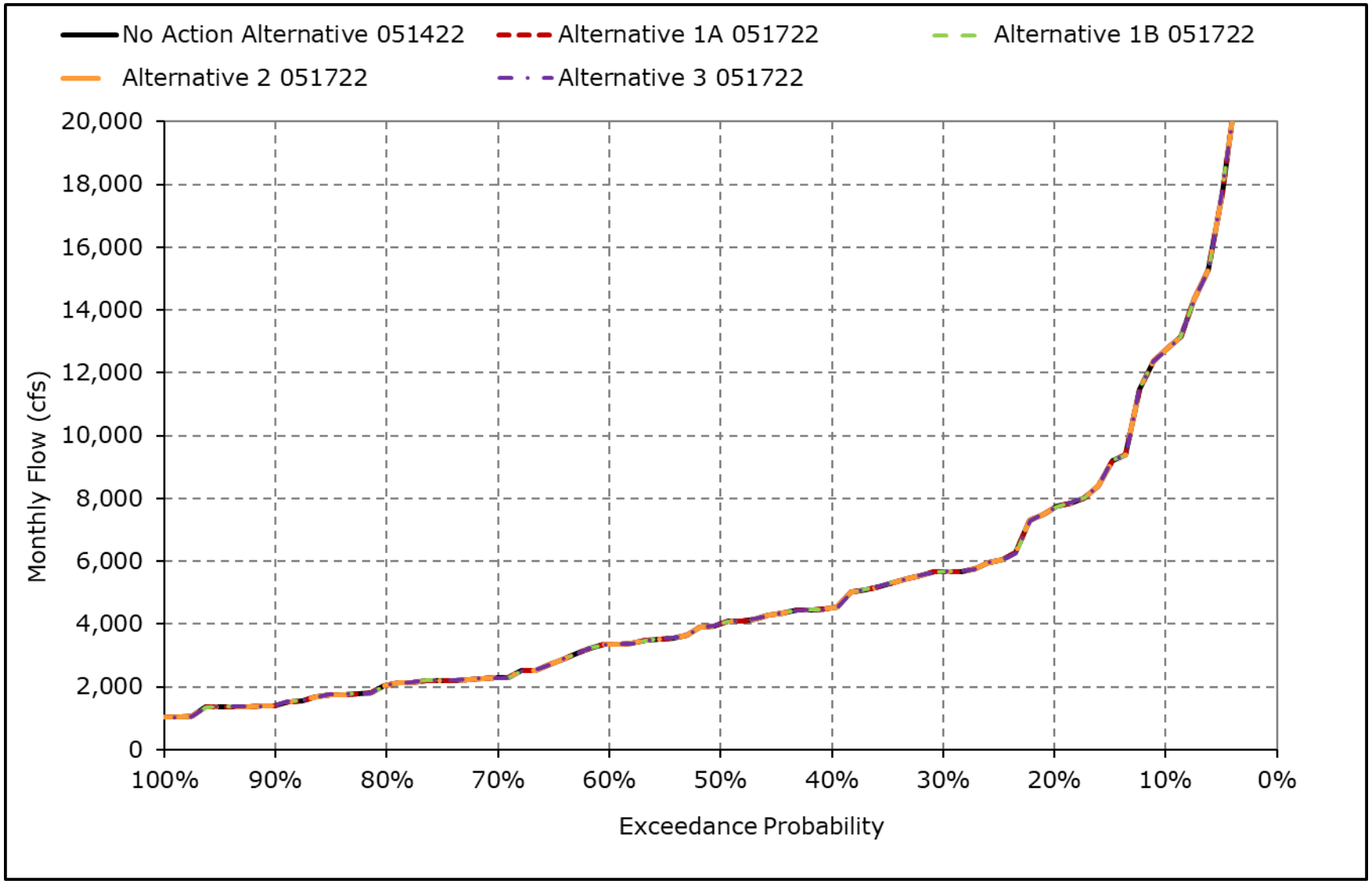
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-8-13. San Joaquin River at Vernalis (60-20-20), April



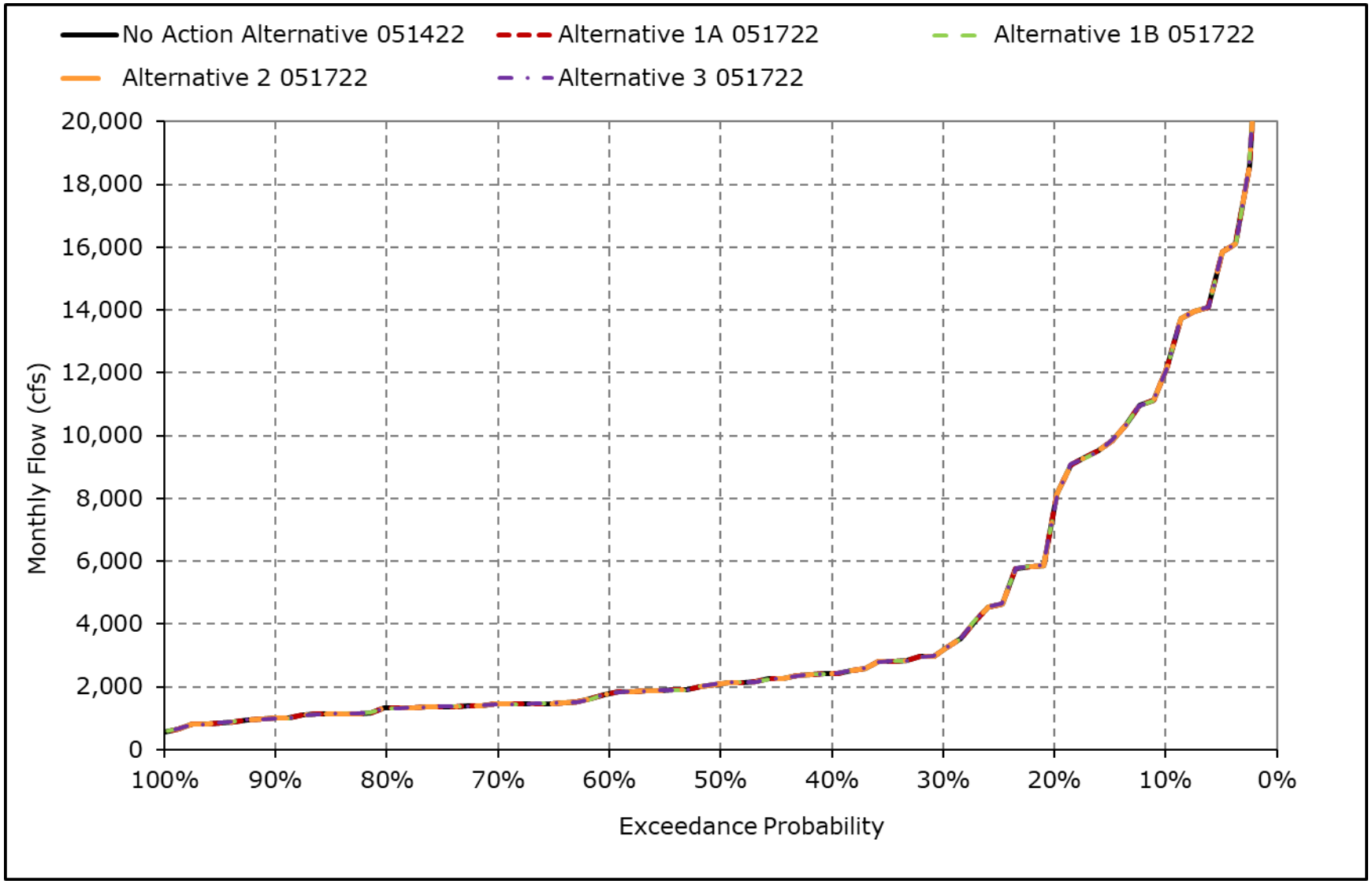
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-8-14. San Joaquin River at Vernalis (60-20-20), May



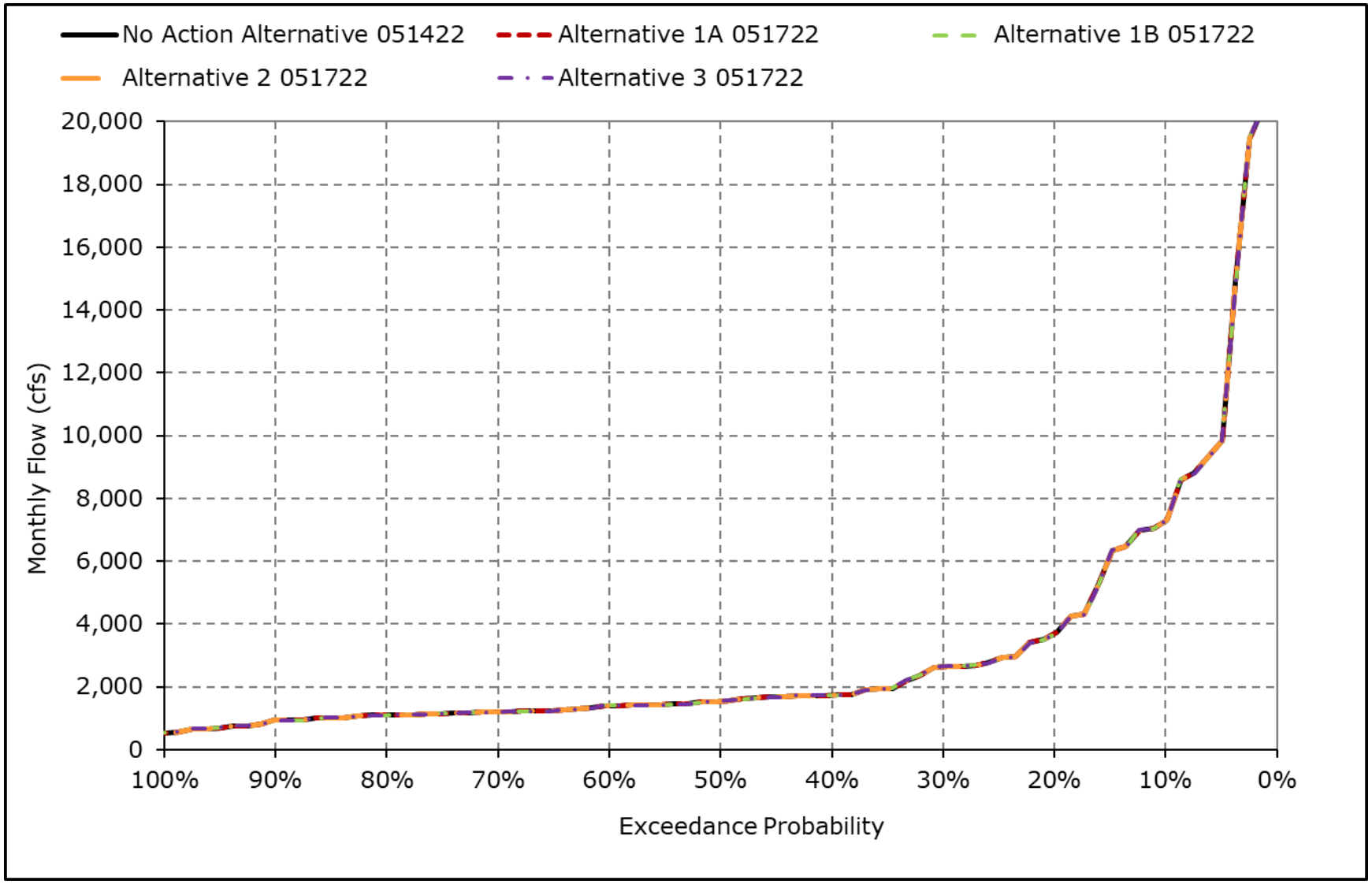
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-8-15. San Joaquin River at Vernalis (60-20-20), June



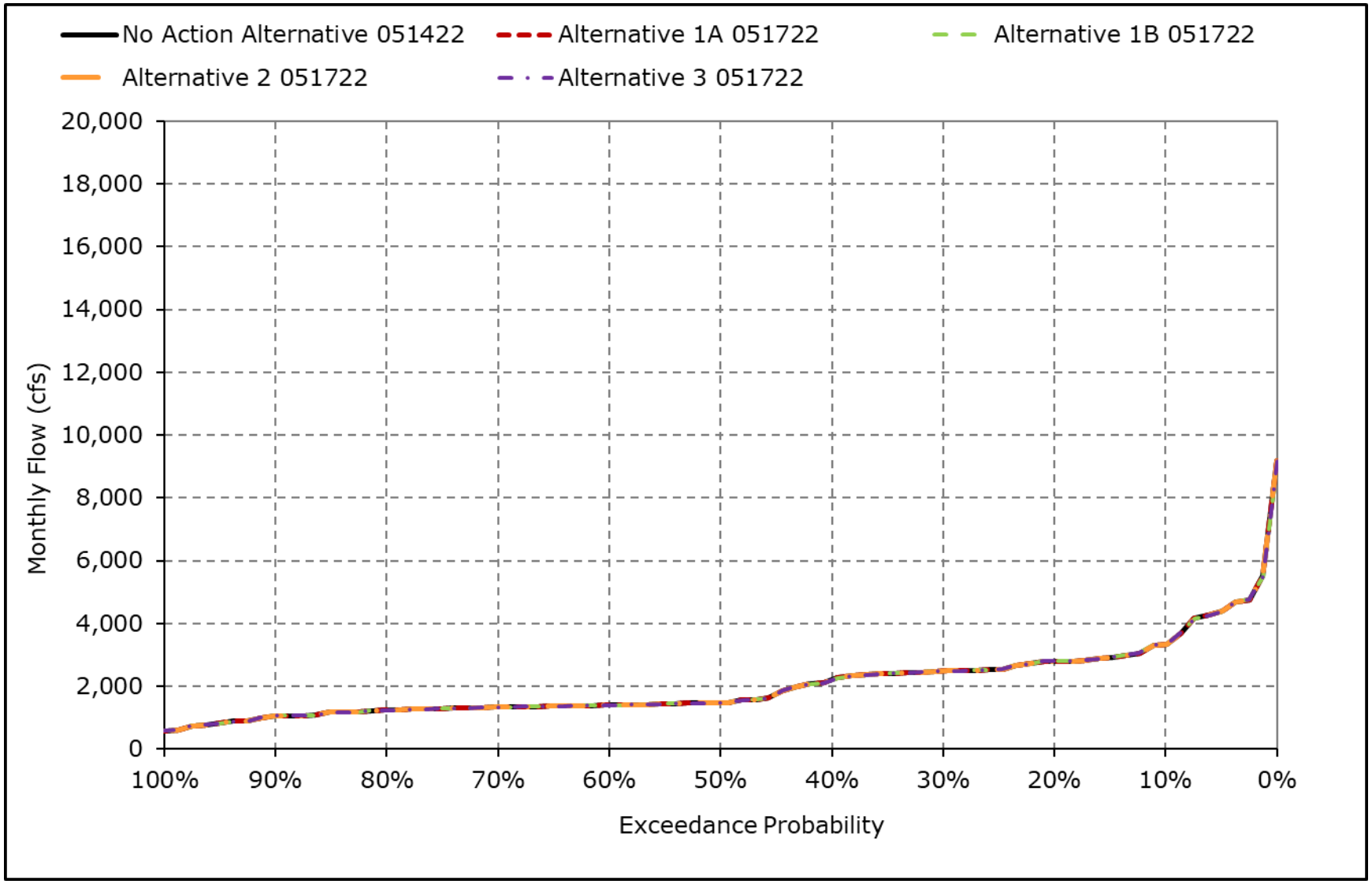
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-8-16. San Joaquin River at Vernalis (60-20-20), July



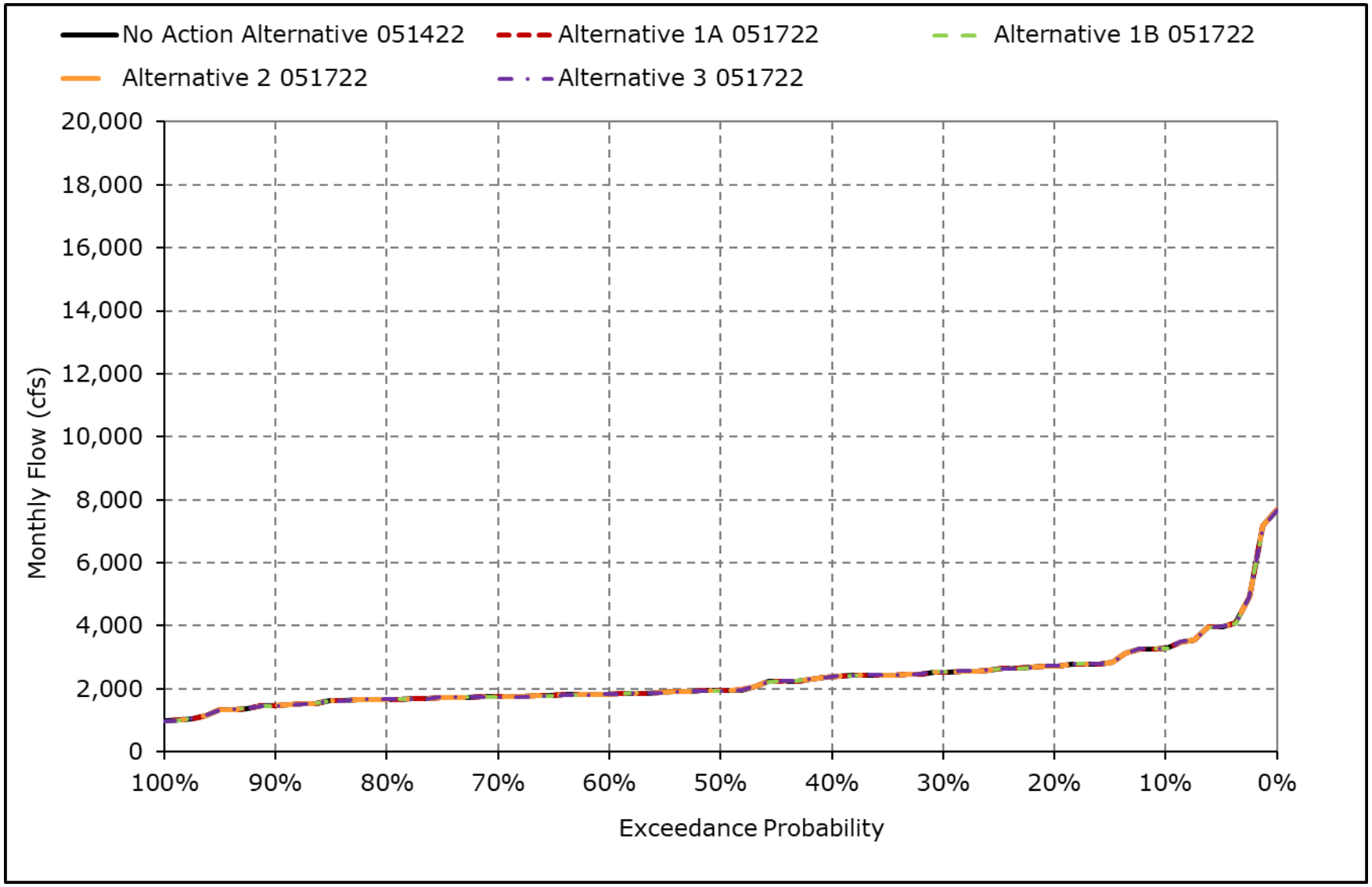
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-8-17. San Joaquin River at Vernalis (60-20-20), August



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 5B3-8-18. San Joaquin River at Vernalis (60-20-20), September



*All scenarios are simulated at current climate condition and 0 cm sea level rise.