

## **Appendix 5B3 – Delta Operations (CalSim II)**

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

- No Action Alternative 011221
- Alternative 1A 011221
- Alternative 1B 011221
- Alternative 2 011221
- Alternative 3 020121

<b>Section</b>	<b>Output Parameters</b>	<b>Table Numbers</b>	<b>Figure Numbers</b>
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 5B3-8-6

#### Report formats

- Monthly tables comparing 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) including all alternatives
- Monthly exceedance charts (all months) including all alternatives

**Table 5B3-1-1a. Sacramento River Flow at Freeport, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	15,399	24,146	48,741	58,415	65,818	61,761	52,870	43,518	26,635	24,173	17,772	22,063
20%	14,226	15,568	32,821	51,261	57,186	50,168	40,756	31,756	20,094	23,306	17,184	21,446
30%	12,620	14,399	22,929	38,967	49,951	39,506	25,336	20,921	15,578	21,438	16,687	21,146
40%	12,112	13,614	18,360	26,312	43,564	32,875	22,859	17,208	15,153	20,198	16,454	20,135
50%	10,919	13,259	15,637	22,920	32,788	25,343	18,551	15,183	14,631	19,209	15,330	14,285
60%	9,661	11,929	15,245	18,947	25,695	21,710	15,239	13,573	14,126	17,191	13,428	11,275
70%	8,806	9,878	13,960	14,650	21,401	18,301	12,638	11,966	13,279	15,711	11,147	10,114
80%	7,835	9,138	12,159	12,794	17,750	14,906	11,958	10,551	12,233	13,960	9,780	9,218
90%	7,054	7,287	9,801	11,765	14,560	12,042	10,926	9,823	10,851	10,426	8,964	7,604
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	11,321	14,535	22,458	30,034	37,320	32,057	24,973	20,710	17,158	18,113	13,921	15,135
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	14,276	18,111	25,645	48,304	56,161	48,925	40,279	33,406	24,000	19,624	16,478	21,465
Above Normal (15%)	12,444	16,320	22,905	36,313	43,185	42,470	27,398	23,370	16,743	21,725	17,016	20,960
Below Normal (17%)	12,311	15,483	25,759	22,142	32,912	22,289	19,420	16,193	14,491	21,189	15,633	12,623
Dry (22%)	8,173	11,869	21,558	16,291	23,237	20,402	14,659	12,093	14,146	16,533	10,090	9,497
Critical (15%)	7,362	7,896	12,607	13,993	16,897	13,976	11,337	8,738	10,378	10,010	9,036	6,986

**Table 5B3-1-1b. Sacramento River Flow at Freeport, Alternative 1A 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	15,404	23,397	48,114	56,120	65,734	61,751	51,592	43,414	24,679	24,293	17,704	22,007
20%	14,293	14,966	32,827	49,629	56,202	48,178	40,754	31,728	19,031	23,329	17,239	21,512
30%	12,885	14,399	22,944	37,903	49,280	37,187	25,392	20,547	15,572	21,448	16,853	21,209
40%	12,201	13,612	18,100	25,886	42,800	31,335	22,903	17,075	15,165	20,380	16,450	20,146
50%	11,396	13,350	15,452	22,574	31,786	23,757	18,589	14,922	14,557	19,413	15,626	14,491
60%	10,515	12,602	14,980	18,467	25,187	20,553	15,523	13,551	14,124	17,571	14,199	11,793
70%	10,213	11,034	13,762	14,532	20,992	17,825	13,065	11,968	13,276	16,506	11,797	10,928
80%	9,353	10,302	11,822	12,740	17,501	14,613	11,982	10,637	12,191	14,385	11,216	10,310
90%	8,026	7,597	9,994	11,961	14,342	12,116	11,090	9,867	10,851	10,872	9,647	8,731
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	11,843	14,724	22,345	29,569	36,799	31,188	24,738	20,589	16,988	18,551	14,445	15,568
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	14,198	17,819	25,625	47,812	55,706	48,342	39,627	33,226	23,719	19,556	16,402	21,461
Above Normal (15%)	12,512	16,271	22,725	35,378	42,587	41,065	27,273	23,210	16,419	21,792	16,996	21,031
Below Normal (17%)	12,899	15,960	25,578	21,644	32,104	21,069	19,235	16,039	14,285	21,468	16,242	12,998
Dry (22%)	9,342	12,716	21,595	15,987	22,752	19,299	14,731	12,060	14,121	17,694	11,513	10,503
Critical (15%)	8,592	8,038	12,213	13,855	16,594	13,784	11,373	8,685	10,429	11,016	9,952	7,932

**Table 5B3-1-1c. Sacramento River Flow at Freeport, Alternative 1A 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	5	-748	-628	-2,295	-84	-10	-1,278	-103	-1,956	120	-68	-55
20%	67	-602	6	-1,632	-985	-1,990	-2	-28	-1,062	24	54	66
30%	265	0	14	-1,064	-671	-2,319	57	-373	-6	10	166	64
40%	89	-2	-260	-426	-764	-1,540	44	-133	11	182	-4	11
50%	477	90	-185	-346	-1,002	-1,586	38	-261	-74	204	296	206
60%	854	673	-265	-481	-507	-1,157	284	-22	-3	380	771	518
70%	1,407	1,157	-198	-118	-409	-476	427	2	-3	795	650	814
80%	1,518	1,164	-337	-54	-249	-293	24	86	-42	425	1,436	1,092
90%	971	310	193	196	-219	74	164	44	0	446	682	1,128
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	522	189	-113	-465	-521	-869	-235	-122	-169	438	524	432
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	-79	-292	-20	-492	-454	-582	-651	-180	-280	-68	-76	-5
Above Normal (15%)	69	-49	-180	-935	-598	-1,405	-124	-160	-324	67	-19	71
Below Normal (17%)	589	477	-181	-498	-808	-1,220	-185	-154	-206	279	610	375
Dry (22%)	1,168	848	37	-305	-485	-1,103	72	-32	-25	1,161	1,424	1,007
Critical (15%)	1,231	142	-394	-138	-304	-192	36	-53	51	1,006	916	946

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B3-1-2a. Sacramento River Flow at Freeport, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	15,399	24,146	48,741	58,415	65,818	61,761	52,870	43,518	26,635	24,173	17,772	22,063
20%	14,226	15,568	32,821	51,261	57,186	50,168	40,756	31,756	20,094	23,306	17,184	21,446
30%	12,620	14,399	22,929	38,967	49,951	39,506	25,336	20,921	15,578	21,438	16,687	21,146
40%	12,112	13,614	18,360	26,312	43,564	32,875	22,859	17,208	15,153	20,198	16,454	20,135
50%	10,919	13,259	15,637	22,920	32,788	25,343	18,551	15,183	14,631	19,209	15,330	14,285
60%	9,661	11,929	15,245	18,947	25,695	21,710	15,239	13,573	14,126	17,191	13,428	11,275
70%	8,806	9,878	13,960	14,650	21,401	18,301	12,638	11,966	13,279	15,711	11,147	10,114
80%	7,835	9,138	12,159	12,794	17,750	14,906	11,958	10,551	12,233	13,960	9,780	9,218
90%	7,054	7,287	9,801	11,765	14,560	12,042	10,926	9,823	10,851	10,426	8,964	7,604
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	11,321	14,535	22,458	30,034	37,320	32,057	24,973	20,710	17,158	18,113	13,921	15,135
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	14,276	18,111	25,645	48,304	56,161	48,925	40,279	33,406	24,000	19,624	16,478	21,465
Above Normal (15%)	12,444	16,320	22,905	36,313	43,185	42,470	27,398	23,370	16,743	21,725	17,016	20,960
Below Normal (17%)	12,311	15,483	25,759	22,142	32,912	22,289	19,420	16,193	14,491	21,189	15,633	12,623
Dry (22%)	8,173	11,869	21,558	16,291	23,237	20,402	14,659	12,093	14,146	16,533	10,090	9,497
Critical (15%)	7,362	7,896	12,607	13,993	16,897	13,976	11,337	8,738	10,378	10,010	9,036	6,986

**Table 5B3-1-2b. Sacramento River Flow at Freeport, Alternative 1B 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	15,405	23,391	48,084	56,042	65,774	61,489	50,671	41,932	24,684	24,344	17,704	22,063
20%	14,311	14,966	33,003	49,615	55,898	48,167	40,751	31,736	19,032	23,337	17,221	21,511
30%	12,847	14,395	23,026	37,896	49,430	37,273	25,615	20,546	15,515	21,471	16,827	21,275
40%	12,177	13,643	18,209	26,215	42,998	31,324	22,903	17,075	15,159	20,467	16,450	20,130
50%	11,327	13,352	15,453	22,610	32,232	23,758	18,589	14,922	14,572	19,402	15,655	14,514
60%	10,430	12,825	14,970	18,498	25,186	20,510	15,523	13,550	14,067	17,705	14,202	11,804
70%	10,199	10,993	13,752	14,532	20,996	17,662	13,065	11,985	13,277	16,611	11,756	11,033
80%	9,030	10,155	11,923	12,740	17,517	14,613	12,076	10,637	12,191	14,501	11,260	10,203
90%	7,897	7,753	9,984	11,801	14,482	12,119	11,089	9,867	10,851	10,935	9,618	8,498
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	11,823	14,815	22,407	29,557	36,855	31,177	24,733	20,561	16,986	18,576	14,448	15,580
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	14,192	17,818	25,689	47,787	55,675	48,325	39,568	33,146	23,690	19,558	16,399	21,489
Above Normal (15%)	12,584	16,346	22,882	35,468	42,649	41,116	27,316	23,210	16,428	21,798	16,995	21,092
Below Normal (17%)	12,852	16,186	25,683	21,665	32,208	21,076	19,257	16,045	14,263	21,471	16,245	13,093
Dry (22%)	9,363	12,864	21,551	15,970	22,843	19,286	14,746	12,056	14,169	17,789	11,530	10,425
Critical (15%)	8,421	8,104	12,287	13,735	16,723	13,707	11,380	8,672	10,424	11,027	9,955	7,903

**Table 5B3-1-2c. Sacramento River Flow at Freeport, Alternative 1B 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	6	-755	-657	-2,373	-44	-272	-2,199	-1,585	-1,951	172	-68	0
20%	85	-602	181	-1,646	-1,288	-2,002	-6	-21	-1,061	32	37	65
30%	228	-4	97	-1,072	-521	-2,232	280	-374	-63	33	140	129
40%	65	29	-152	-97	-566	-1,551	44	-134	6	269	-4	-5
50%	408	92	-184	-310	-556	-1,585	38	-261	-59	193	326	229
60%	769	895	-275	-449	-508	-1,200	284	-22	-59	514	774	528
70%	1,393	1,115	-208	-118	-405	-639	428	18	-1	900	609	919
80%	1,194	1,016	-236	-54	-233	-293	118	86	-42	541	1,480	985
90%	843	466	183	36	-79	77	164	44	0	509	653	895
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	502	280	-51	-477	-465	-880	-240	-149	-171	463	527	445
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	-84	-293	44	-517	-485	-600	-711	-260	-309	-66	-78	23
Above Normal (15%)	141	26	-24	-845	-537	-1,354	-82	-160	-315	74	-21	132
Below Normal (17%)	541	703	-76	-477	-704	-1,213	-163	-149	-228	281	613	470
Dry (22%)	1,190	995	-7	-321	-394	-1,116	88	-37	23	1,256	1,440	928
Critical (15%)	1,060	209	-320	-258	-174	-269	43	-66	46	1,017	919	917

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B3-1-3a. Sacramento River Flow at Freeport, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	15,399	24,146	48,741	58,415	65,818	61,761	52,870	43,518	26,635	24,173	17,772	22,063
20%	14,226	15,568	32,821	51,261	57,186	50,168	40,756	31,756	20,094	23,306	17,184	21,446
30%	12,620	14,399	22,929	38,967	49,951	39,506	25,336	20,921	15,578	21,438	16,687	21,146
40%	12,112	13,614	18,360	26,312	43,564	32,875	22,859	17,208	15,153	20,198	16,454	20,135
50%	10,919	13,259	15,637	22,920	32,788	25,343	18,551	15,183	14,631	19,209	15,330	14,285
60%	9,661	11,929	15,245	18,947	25,695	21,710	15,239	13,573	14,126	17,191	13,428	11,275
70%	8,806	9,878	13,960	14,650	21,401	18,301	12,638	11,966	13,279	15,711	11,147	10,114
80%	7,835	9,138	12,159	12,794	17,750	14,906	11,958	10,551	12,233	13,960	9,780	9,218
90%	7,054	7,287	9,801	11,765	14,560	12,042	10,926	9,823	10,851	10,426	8,964	7,604
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	11,321	14,535	22,458	30,034	37,320	32,057	24,973	20,710	17,158	18,113	13,921	15,135
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	14,276	18,111	25,645	48,304	56,161	48,925	40,279	33,406	24,000	19,624	16,478	21,465
Above Normal (15%)	12,444	16,320	22,905	36,313	43,185	42,470	27,398	23,370	16,743	21,725	17,016	20,960
Below Normal (17%)	12,311	15,483	25,759	22,142	32,912	22,289	19,420	16,193	14,491	21,189	15,633	12,623
Dry (22%)	8,173	11,869	21,558	16,291	23,237	20,402	14,659	12,093	14,146	16,533	10,090	9,497
Critical (15%)	7,362	7,896	12,607	13,993	16,897	13,976	11,337	8,738	10,378	10,010	9,036	6,986

**Table 5B3-1-3b. Sacramento River Flow at Freeport, Alternative 2 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	15,404	23,380	48,114	56,152	65,734	61,754	51,571	43,403	24,681	24,295	17,704	22,063
20%	14,344	14,966	32,861	49,627	56,189	49,093	40,754	31,728	19,032	23,338	17,225	21,512
30%	12,871	14,399	22,944	38,700	49,355	37,184	25,392	20,547	15,572	21,500	16,853	21,195
40%	12,203	13,612	18,100	25,889	42,877	31,335	22,896	17,073	15,165	20,380	16,450	20,146
50%	11,133	13,350	15,452	22,578	31,786	23,758	18,586	14,922	14,558	19,415	15,661	14,491
60%	10,504	12,592	14,973	18,471	25,187	20,568	15,523	13,551	14,124	17,487	14,198	11,746
70%	10,214	10,927	13,764	14,532	20,994	17,828	13,065	11,968	13,276	16,569	11,797	10,924
80%	8,598	9,564	11,830	12,741	17,503	14,613	11,982	10,637	12,191	14,386	10,996	10,221
90%	7,958	7,620	10,025	11,801	14,342	12,091	11,090	9,866	10,851	10,870	9,568	8,541
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	11,791	14,664	22,359	29,574	36,830	31,245	24,767	20,590	16,990	18,541	14,412	15,545
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	14,201	17,821	25,634	47,863	55,722	48,483	39,715	33,229	23,725	19,559	16,441	21,489
Above Normal (15%)	12,513	16,282	22,724	35,378	42,624	41,083	27,273	23,209	16,419	21,793	16,996	21,033
Below Normal (17%)	12,957	15,954	25,595	21,664	32,068	21,077	19,243	16,044	14,284	21,470	16,197	12,984
Dry (22%)	9,175	12,406	21,609	15,987	22,780	19,364	14,729	12,060	14,119	17,675	11,453	10,449
Critical (15%)	8,414	8,090	12,250	13,756	16,732	13,739	11,373	8,684	10,428	10,963	9,792	7,813

**Table 5B3-1-3c. Sacramento River Flow at Freeport, Alternative 2 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	5	-766	-627	-2,263	-84	-7	-1,299	-115	-1,954	122	-69	0
20%	119	-602	39	-1,634	-997	-1,075	-2	-28	-1,062	32	41	66
30%	251	0	15	-267	-596	-2,321	56	-374	-6	63	166	49
40%	91	-2	-260	-424	-687	-1,540	37	-135	11	182	-4	11
50%	215	90	-185	-342	-1,001	-1,585	34	-261	-73	206	332	206
60%	843	663	-272	-476	-508	-1,142	284	-22	-3	296	770	471
70%	1,408	1,050	-196	-117	-407	-473	428	2	-3	858	650	811
80%	763	425	-329	-53	-246	-293	25	86	-42	425	1,216	1,003
90%	903	333	224	36	-219	49	164	43	0	443	604	938
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	470	129	-99	-460	-490	-812	-206	-120	-168	428	492	410
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	-76	-290	-10	-441	-438	-441	-564	-178	-275	-65	-37	24
Above Normal (15%)	69	-39	-181	-936	-562	-1,387	-125	-161	-324	68	-19	73
Below Normal (17%)	647	471	-164	-478	-844	-1,212	-176	-149	-206	281	564	362
Dry (22%)	1,002	537	51	-305	-457	-1,038	70	-32	-27	1,143	1,363	952
Critical (15%)	1,053	195	-357	-238	-165	-237	36	-54	51	953	756	827

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B3-1-4a. Sacramento River Flow at Freeport, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	15,399	24,146	48,741	58,415	65,818	61,761	52,870	43,518	26,635	24,173	17,772	22,063
20%	14,226	15,568	32,821	51,261	57,186	50,168	40,756	31,756	20,094	23,306	17,184	21,446
30%	12,620	14,399	22,929	38,967	49,951	39,506	25,336	20,921	15,578	21,438	16,687	21,146
40%	12,112	13,614	18,360	26,312	43,564	32,875	22,859	17,208	15,153	20,198	16,454	20,135
50%	10,919	13,259	15,637	22,920	32,788	25,343	18,551	15,183	14,631	19,209	15,330	14,285
60%	9,661	11,929	15,245	18,947	25,695	21,710	15,239	13,573	14,126	17,191	13,428	11,275
70%	8,806	9,878	13,960	14,650	21,401	18,301	12,638	11,966	13,279	15,711	11,147	10,114
80%	7,835	9,138	12,159	12,794	17,750	14,906	11,958	10,551	12,233	13,960	9,780	9,218
90%	7,054	7,287	9,801	11,765	14,560	12,042	10,926	9,823	10,851	10,426	8,964	7,604
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	11,321	14,535	22,458	30,034	37,320	32,057	24,973	20,710	17,158	18,113	13,921	15,135
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	14,276	18,111	25,645	48,304	56,161	48,925	40,279	33,406	24,000	19,624	16,478	21,465
Above Normal (15%)	12,444	16,320	22,905	36,313	43,185	42,470	27,398	23,370	16,743	21,725	17,016	20,960
Below Normal (17%)	12,311	15,483	25,759	22,142	32,912	22,289	19,420	16,193	14,491	21,189	15,633	12,623
Dry (22%)	8,173	11,869	21,558	16,291	23,237	20,402	14,659	12,093	14,146	16,533	10,090	9,497
Critical (15%)	7,362	7,896	12,607	13,993	16,897	13,976	11,337	8,738	10,378	10,010	9,036	6,986

**Table 5B3-1-4b. Sacramento River Flow at Freeport, Alternative 3 020121, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	15,460	23,379	48,219	56,055	65,776	59,937	50,099	41,951	24,687	24,444	17,704	22,064
20%	14,645	15,014	33,806	49,597	56,356	48,134	40,752	31,746	19,037	23,352	17,274	21,515
30%	13,096	14,407	23,405	37,896	48,703	37,277	25,616	20,548	15,421	21,611	16,772	21,228
40%	12,198	13,646	19,109	26,280	44,302	31,336	22,908	17,196	15,098	20,514	16,461	20,368
50%	11,217	13,295	15,589	22,588	32,300	23,758	18,591	14,872	14,578	19,425	15,579	14,549
60%	10,551	12,229	15,159	18,563	25,180	20,511	15,436	13,551	14,128	17,626	14,228	12,080
70%	10,212	10,921	13,753	14,590	21,010	17,977	13,066	11,951	13,371	16,744	11,789	10,688
80%	8,509	9,814	11,921	12,759	17,451	14,594	12,099	10,636	12,253	14,181	10,636	10,099
90%	7,754	8,062	9,884	11,802	14,161	12,121	11,187	9,788	10,851	11,002	9,322	8,407
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	11,848	14,804	22,550	29,609	36,913	31,150	24,715	20,527	16,972	18,584	14,383	15,546
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	14,216	17,819	25,684	47,860	55,714	48,138	39,483	33,047	23,651	19,564	16,387	21,423
Above Normal (15%)	13,031	16,561	23,072	35,499	43,025	41,017	27,322	23,209	16,433	21,892	16,998	21,393
Below Normal (17%)	13,097	16,254	26,015	21,713	32,265	21,056	19,297	16,108	14,253	21,531	16,212	13,144
Dry (22%)	9,328	12,586	21,873	16,057	22,867	19,447	14,755	12,015	14,191	17,763	11,239	10,296
Critical (15%)	7,861	8,152	12,209	13,713	16,557	13,808	11,374	8,644	10,384	10,947	10,008	7,645

**Table 5B3-1-4c. Sacramento River Flow at Freeport, Alternative 3 020121 minus No Action Alternative 011221, Monthly Flow (cfs)**

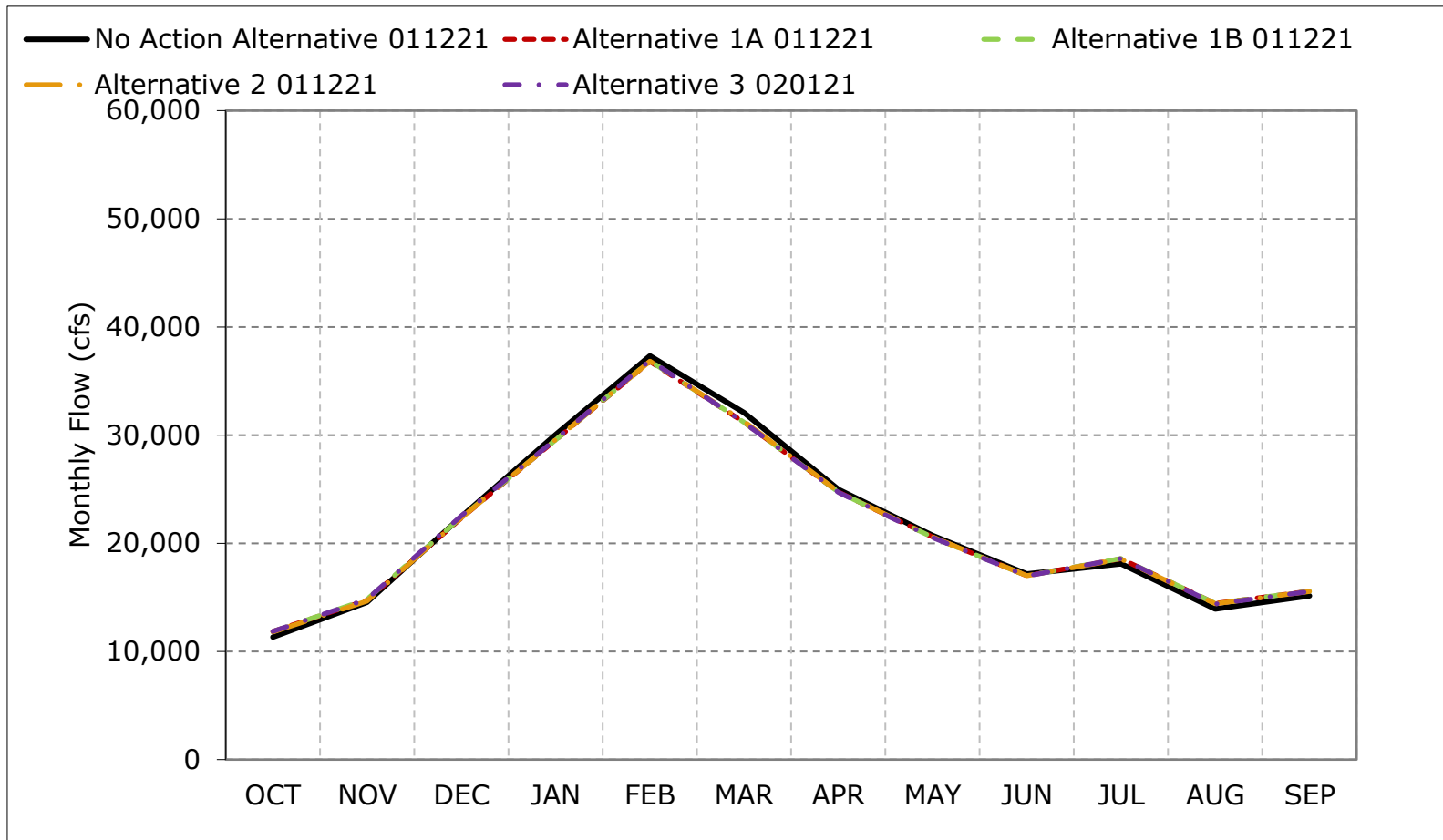
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	61	-766	-523	-2,359	-42	-1,824	-2,771	-1,567	-1,948	272	-68	2
20%	419	-554	985	-1,663	-830	-2,035	-4	-11	-1,057	46	89	69
30%	477	8	475	-1,071	-1,248	-2,229	280	-373	-157	174	85	82
40%	86	32	748	-32	738	-1,539	49	-12	-55	315	6	232
50%	298	36	-47	-332	-487	-1,585	40	-311	-52	216	249	264
60%	889	300	-86	-384	-515	-1,199	197	-22	2	435	799	805
70%	1,405	1,044	-207	-60	-391	-324	428	-15	92	1,033	642	575
80%	673	676	-238	-34	-299	-312	141	85	20	221	856	881
90%	699	775	83	36	-400	79	262	-36	0	575	357	804
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	527	269	92	-426	-407	-907	-258	-183	-185	471	462	411
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	-61	-292	40	-444	-447	-786	-796	-360	-349	-60	-90	-42
Above Normal (15%)	587	241	167	-814	-160	-1,452	-76	-162	-310	167	-18	433
Below Normal (17%)	786	772	256	-429	-647	-1,233	-123	-85	-237	342	580	521
Dry (22%)	1,154	717	316	-235	-370	-955	96	-78	46	1,230	1,149	800
Critical (15%)	499	256	-398	-280	-340	-168	37	-94	7	937	972	659

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

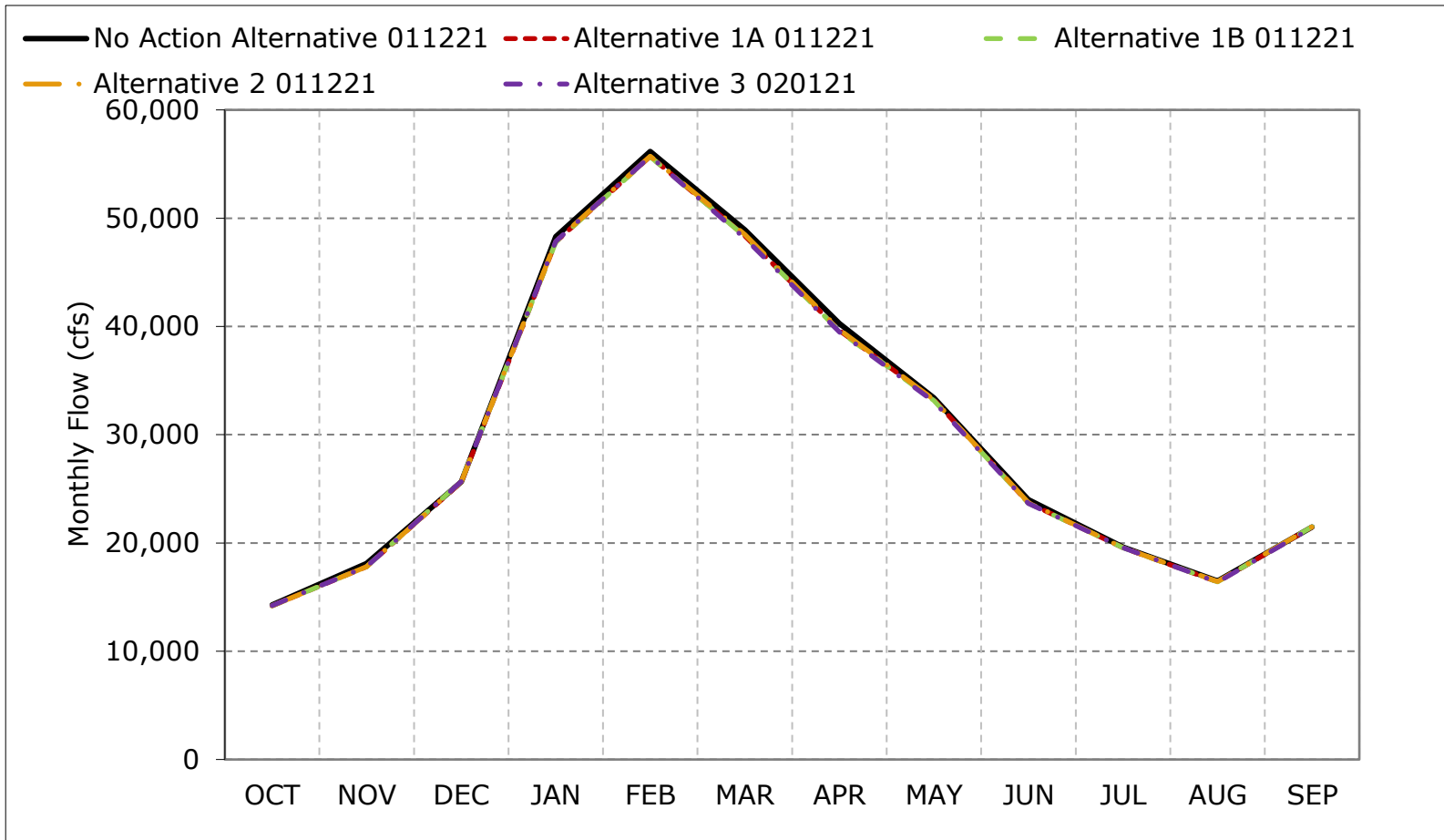
**Figure 5B3-1-1. Sacramento River Flow at Freeport, Long-Term Average Flow**



\*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.

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

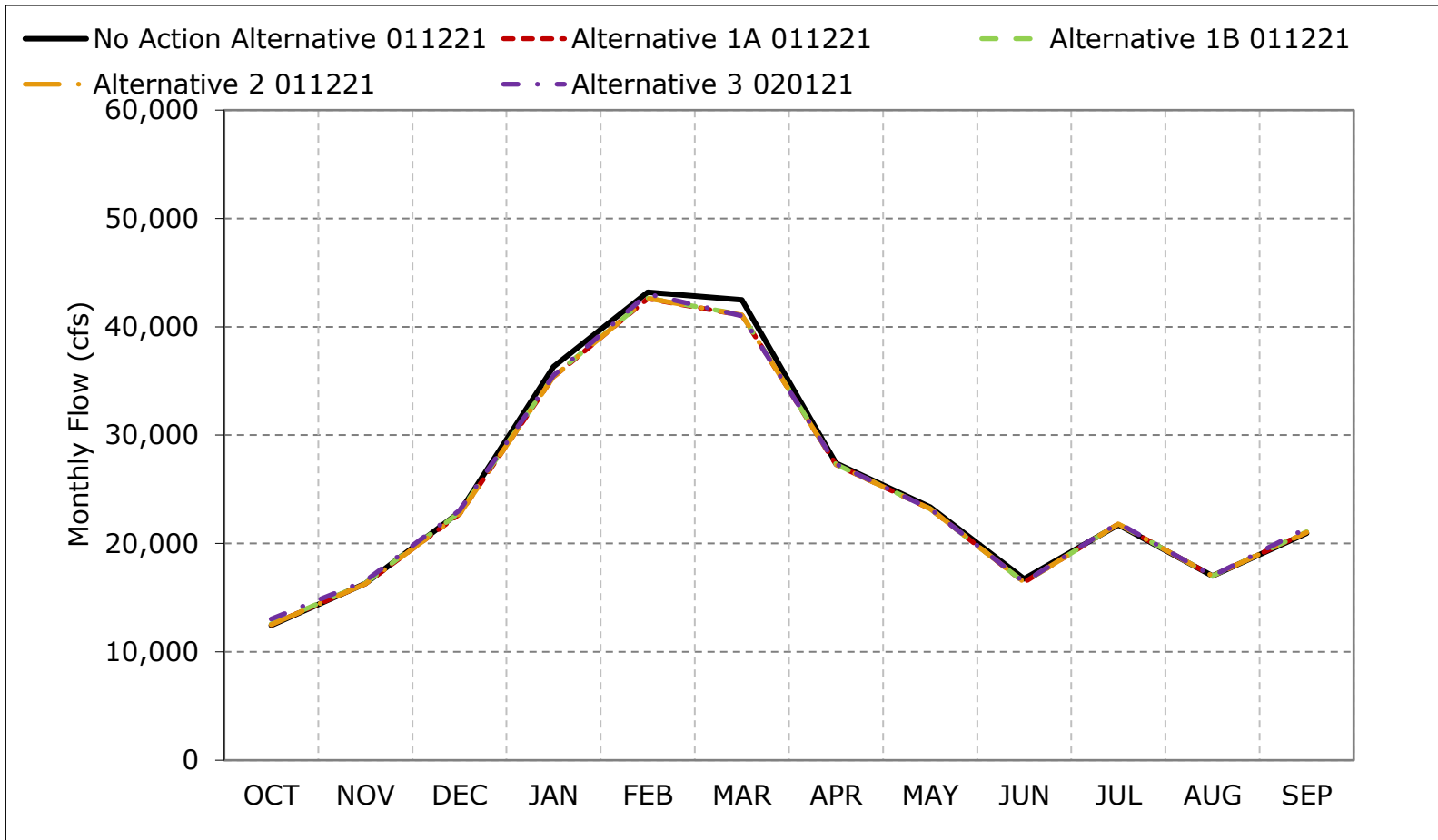


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with calendar year - year type sorting.



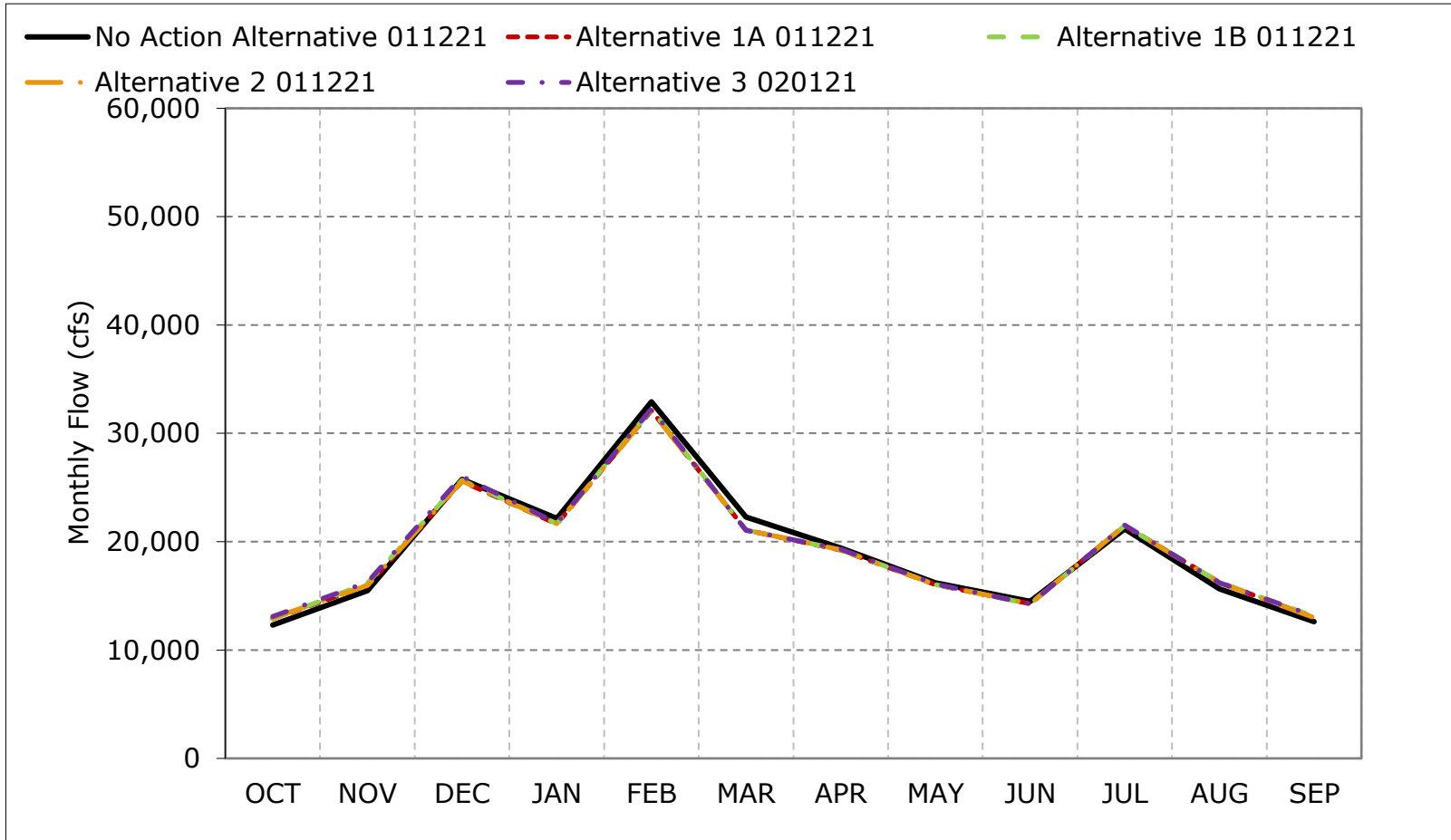
**Figure 5B3-1-3. Sacramento River Flow at Freeport, Above Normal Year Average Flow**



\*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.

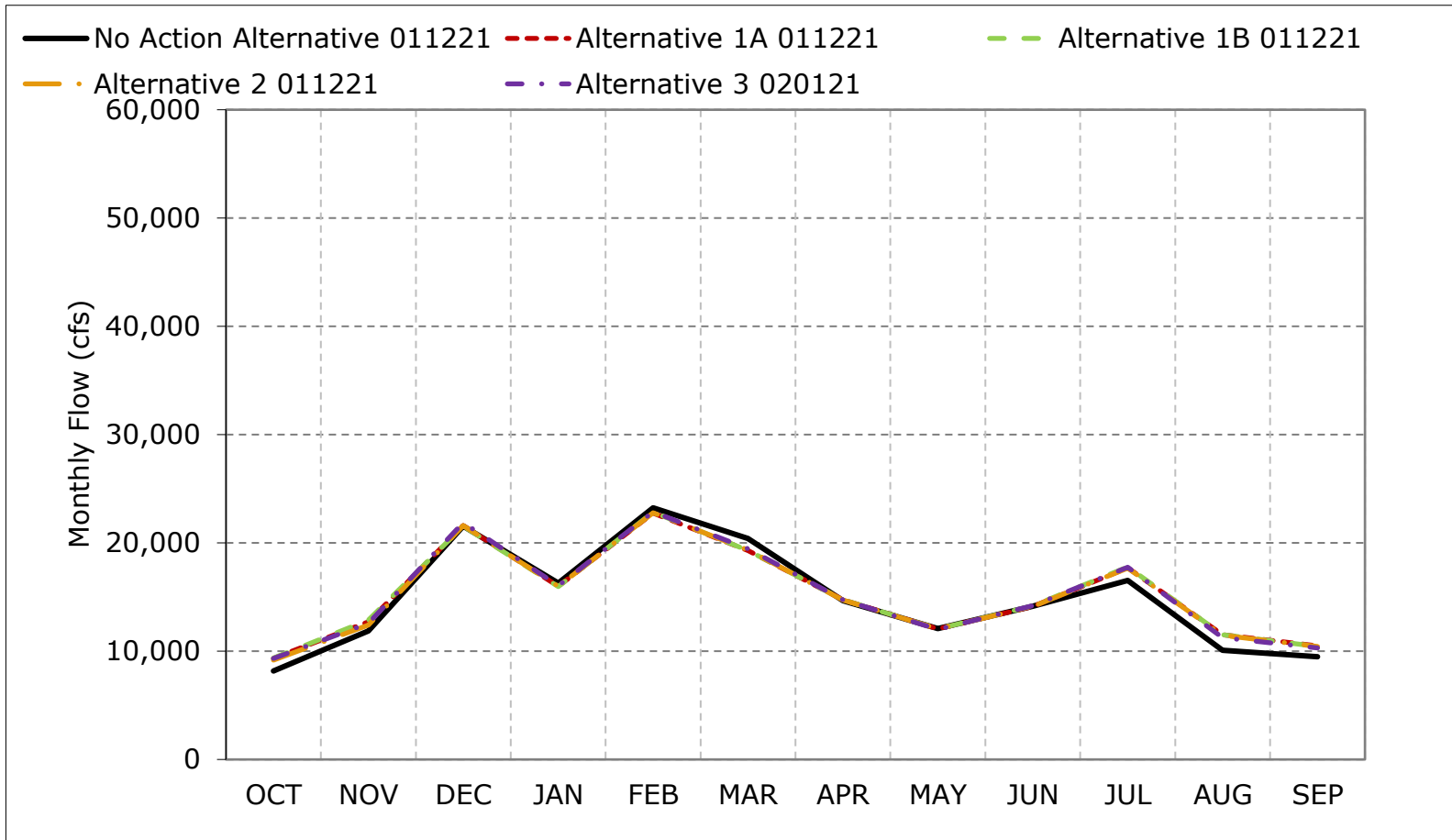
**Figure 5B3-1-4. Sacramento River Flow at Freeport, Below Normal Year Average Flow**



\*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.

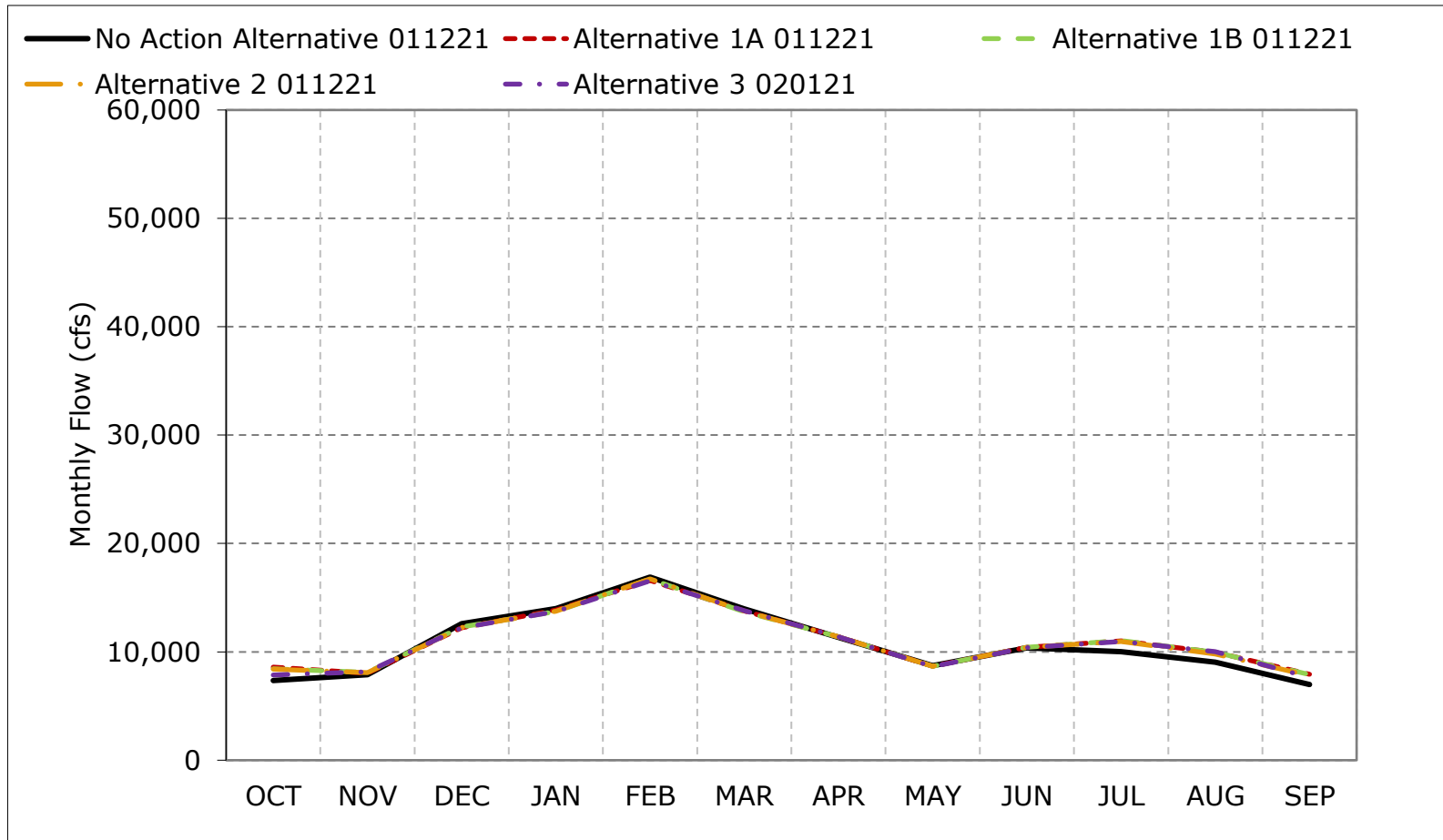
**Figure 5B3-1-5. Sacramento River Flow at Freeport, Dry Year Average Flow**



\*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.

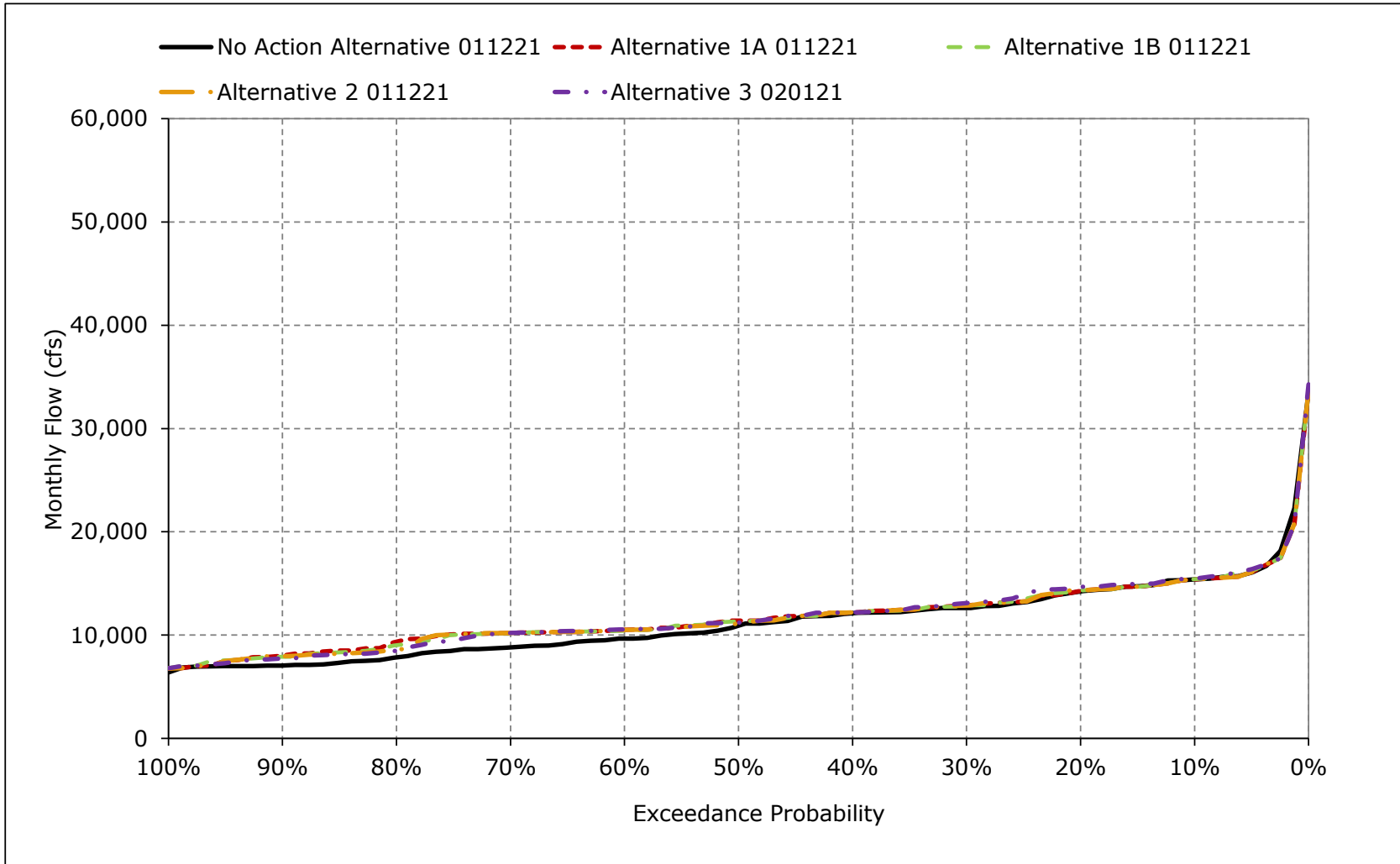
**Figure 5B3-1-6. Sacramento River Flow at Freeport, Critical Year Average Flow**



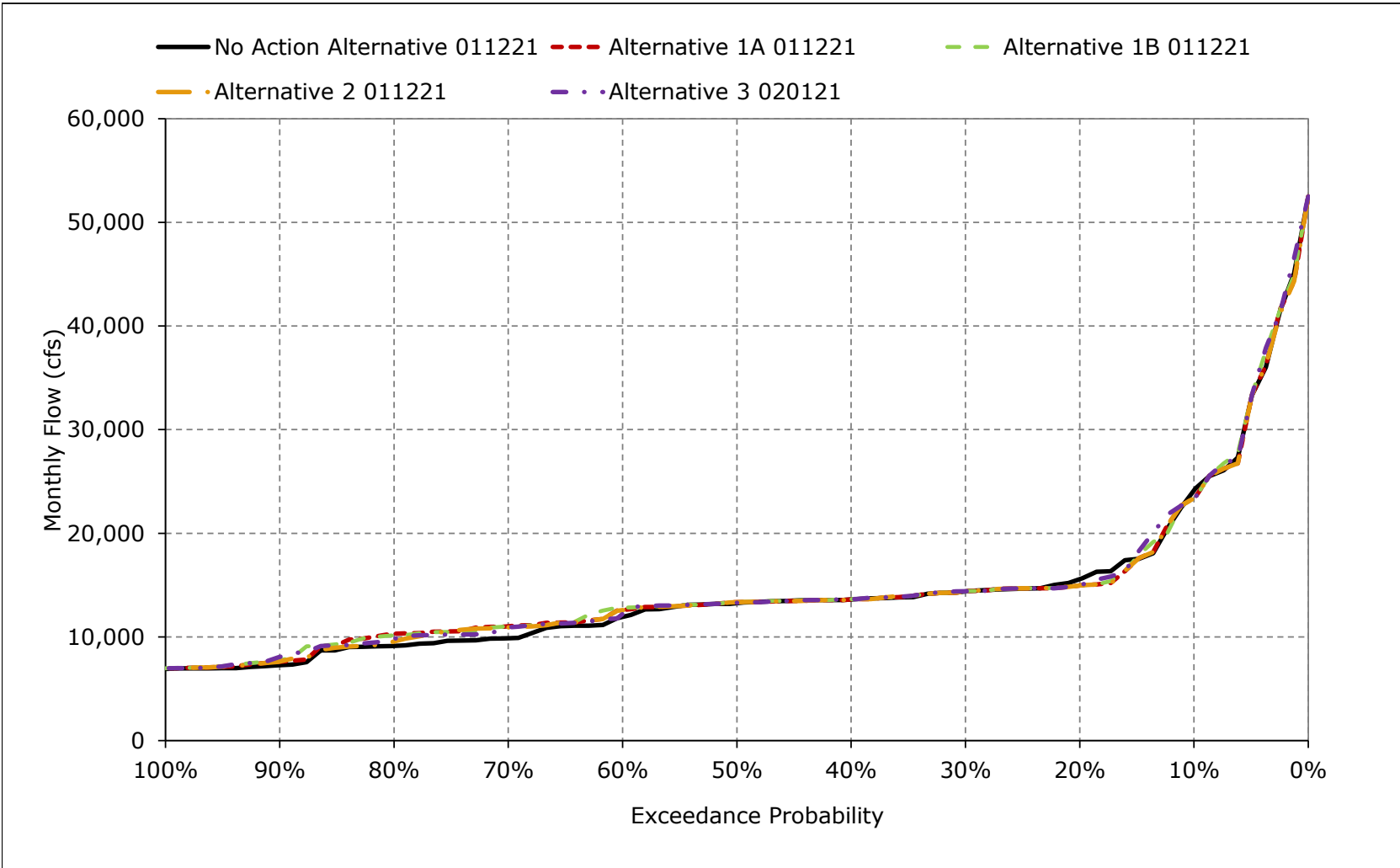
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with calendar year - year type sorting.

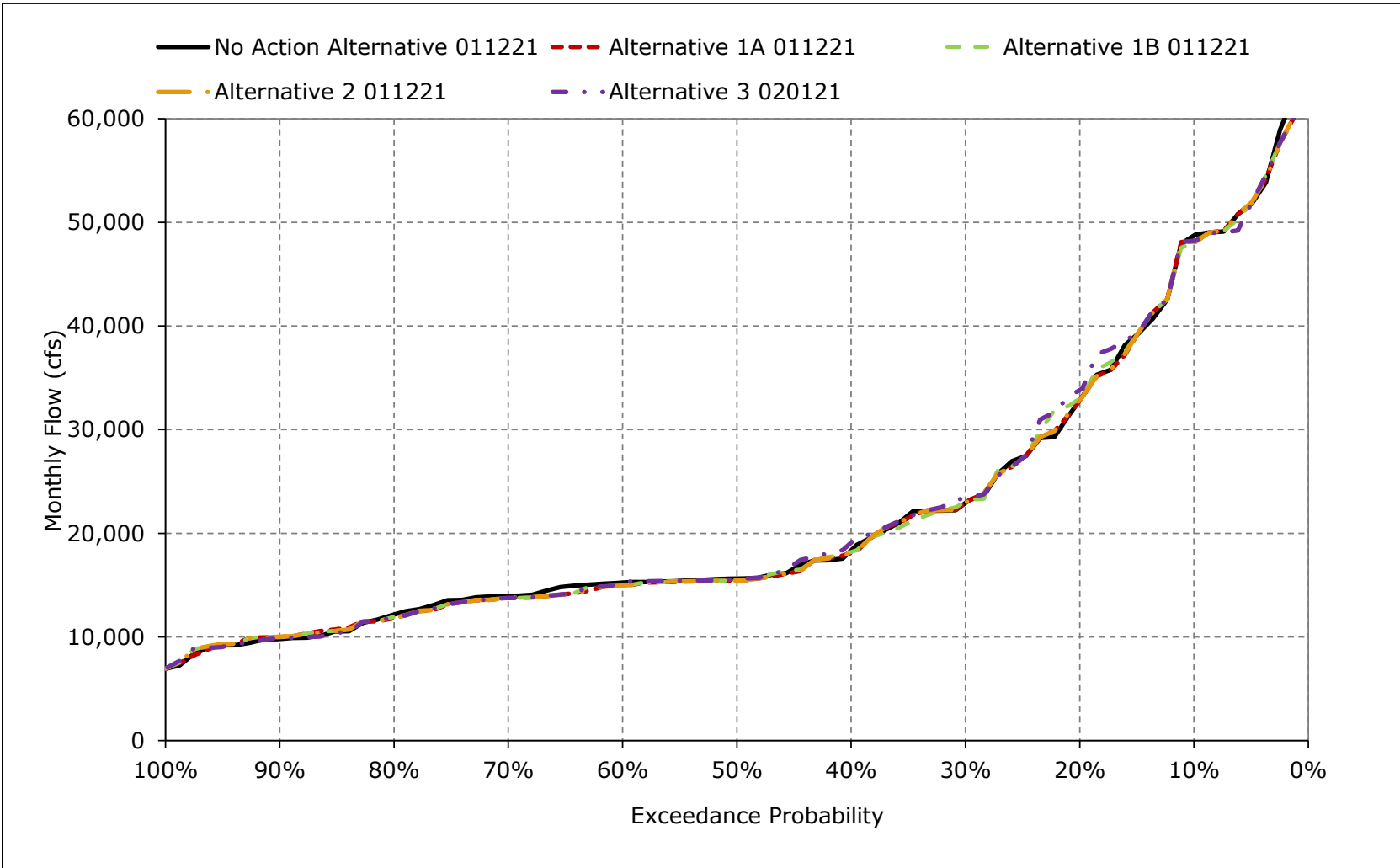
**Figure 5B3-1-7. Sacramento River Flow at Freeport, October**



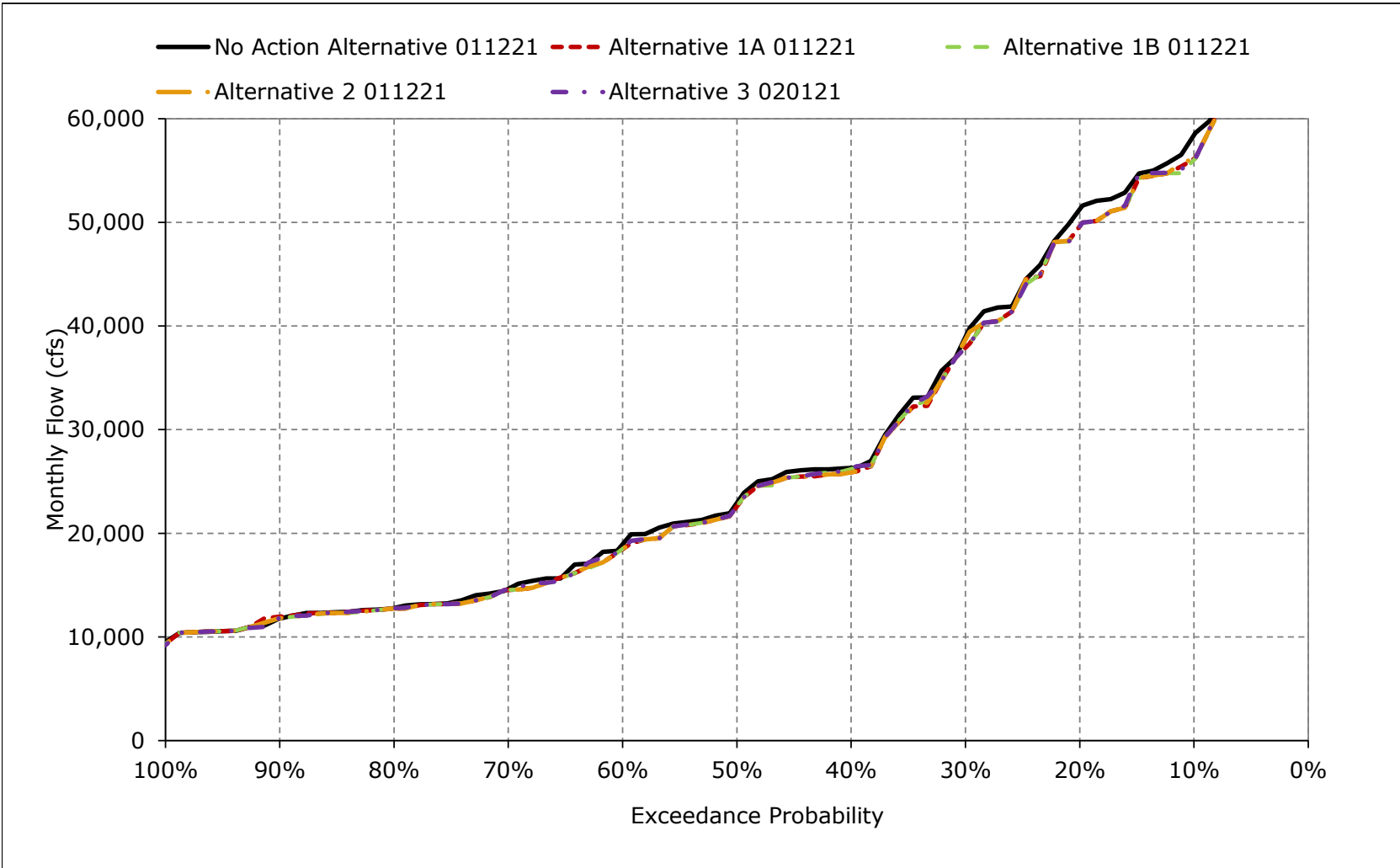
**Figure 5B3-1-8. Sacramento River Flow at Freeport, November**



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

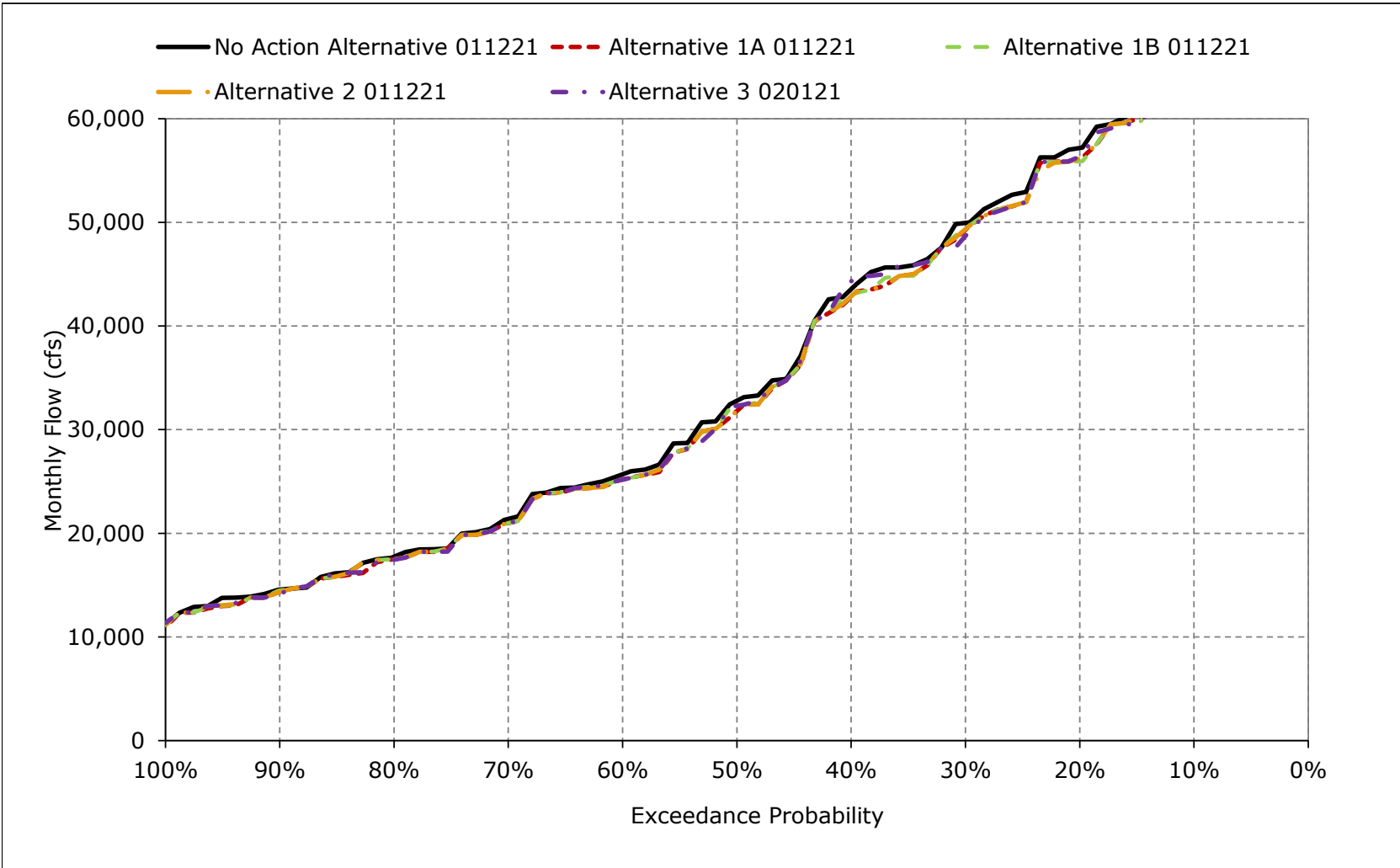


**Figure 5B3-1-10. Sacramento River Flow at Freeport, January**

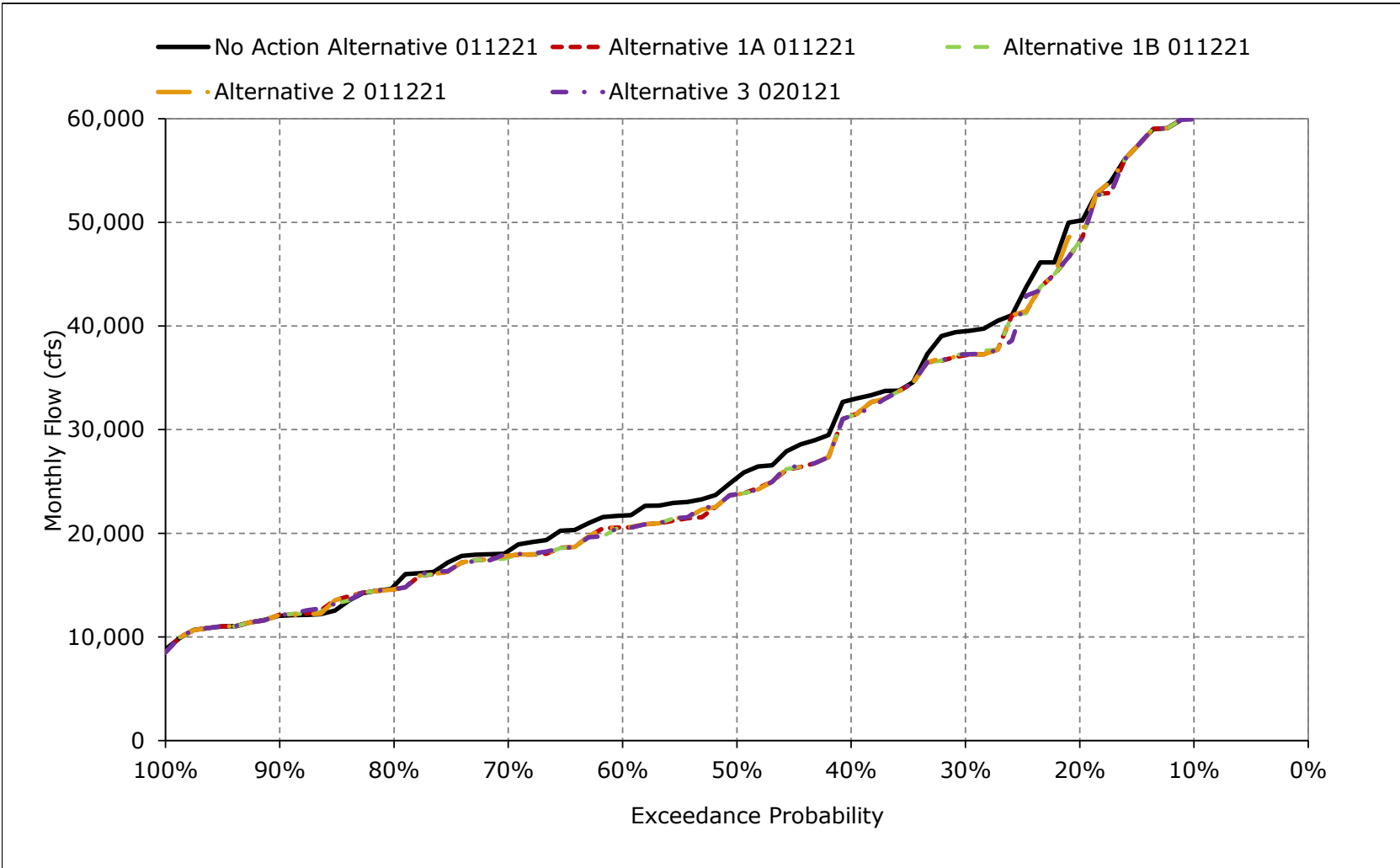




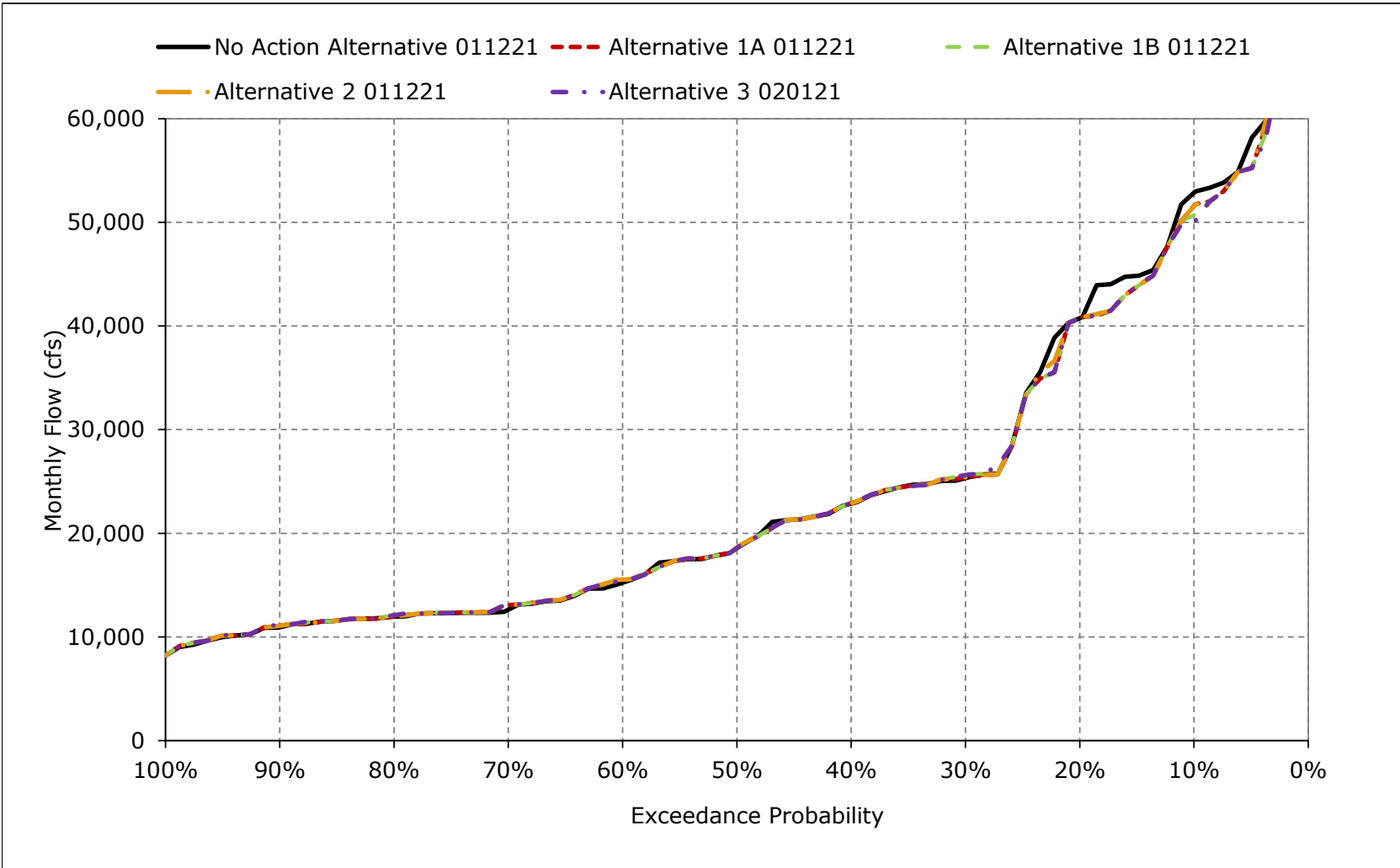
**Figure 5B3-1-11. Sacramento River Flow at Freeport, February**



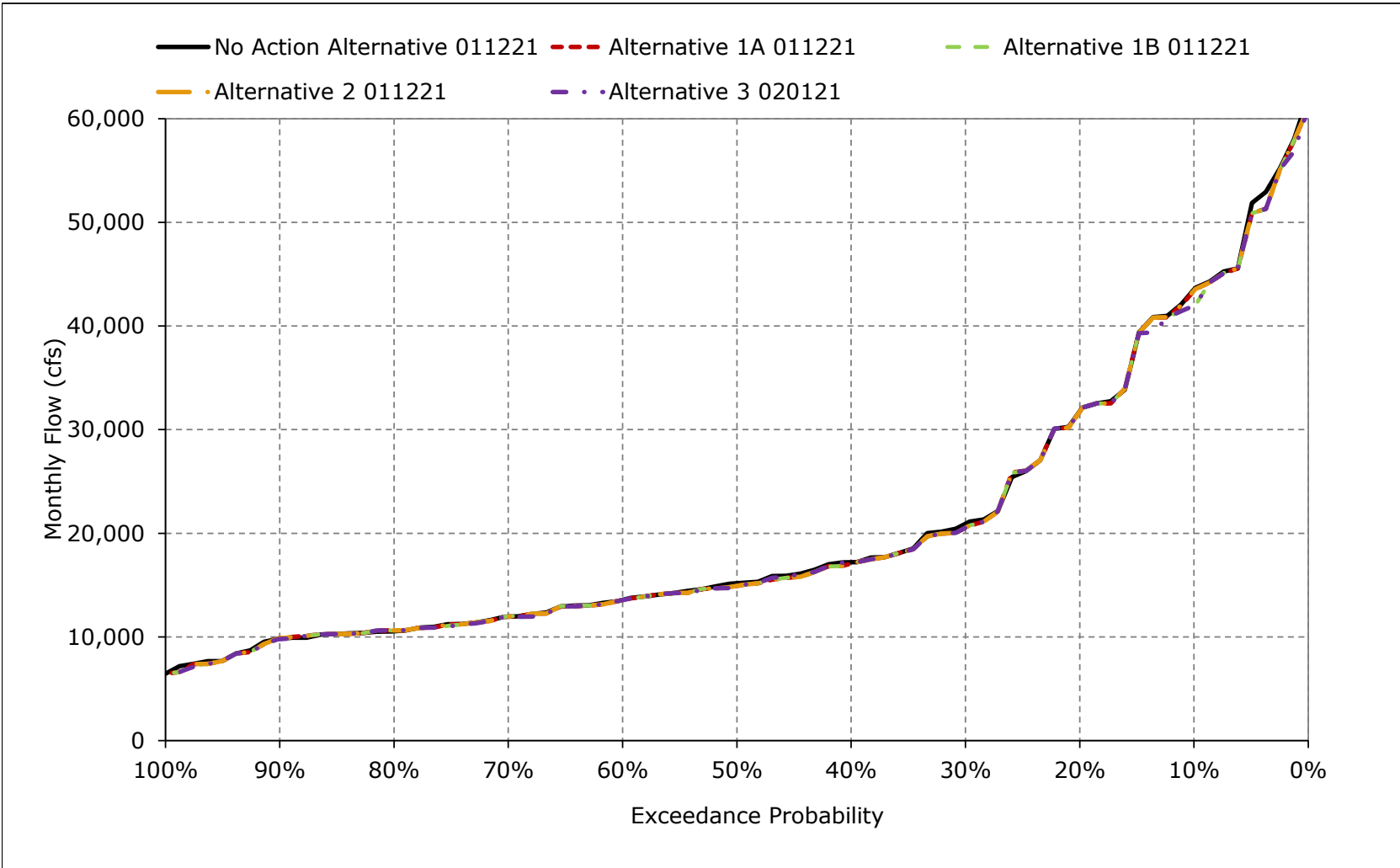
**Figure 5B3-1-12. Sacramento River Flow at Freeport, March**



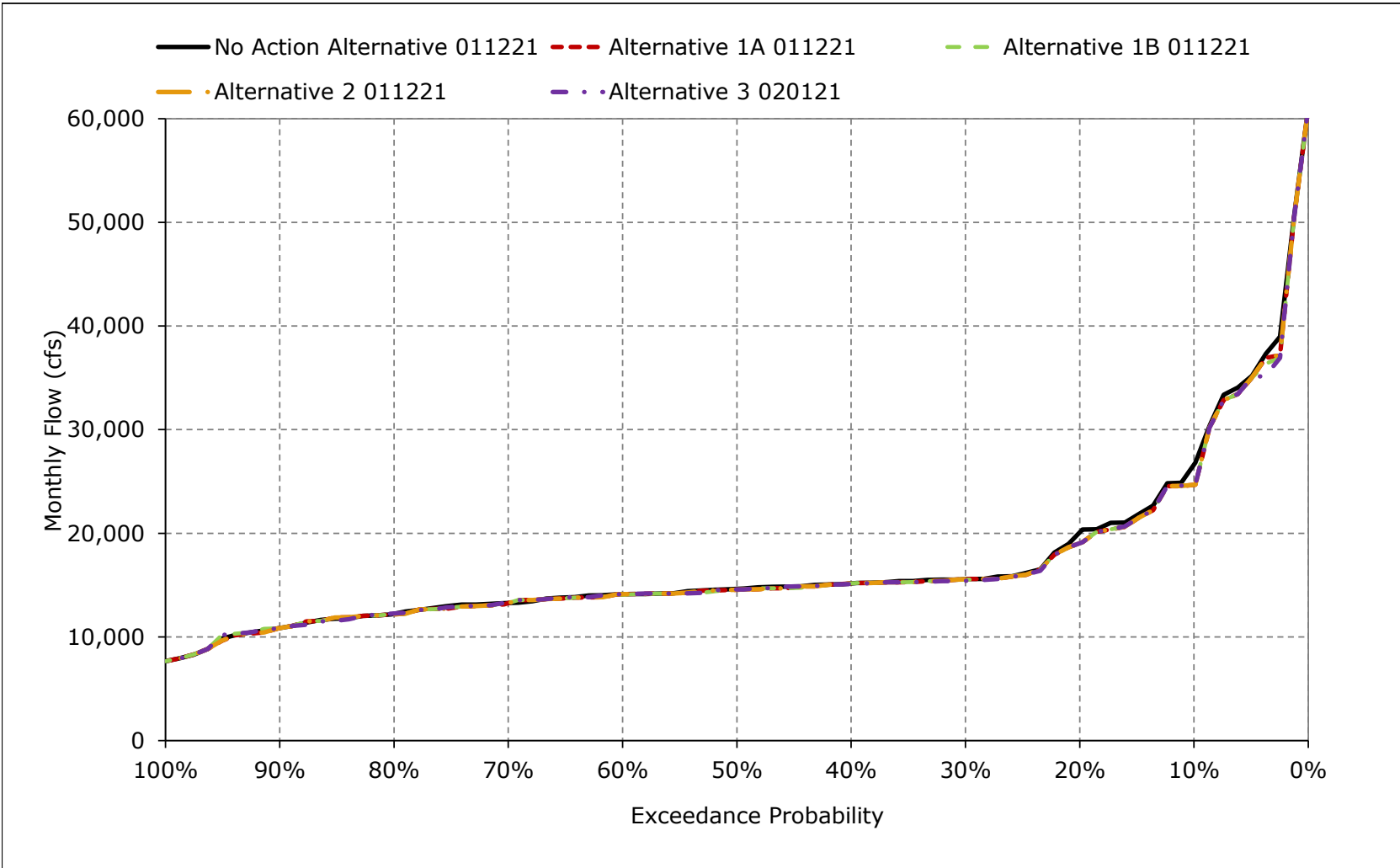
**Figure 5B3-1-13. Sacramento River Flow at Freeport, April**



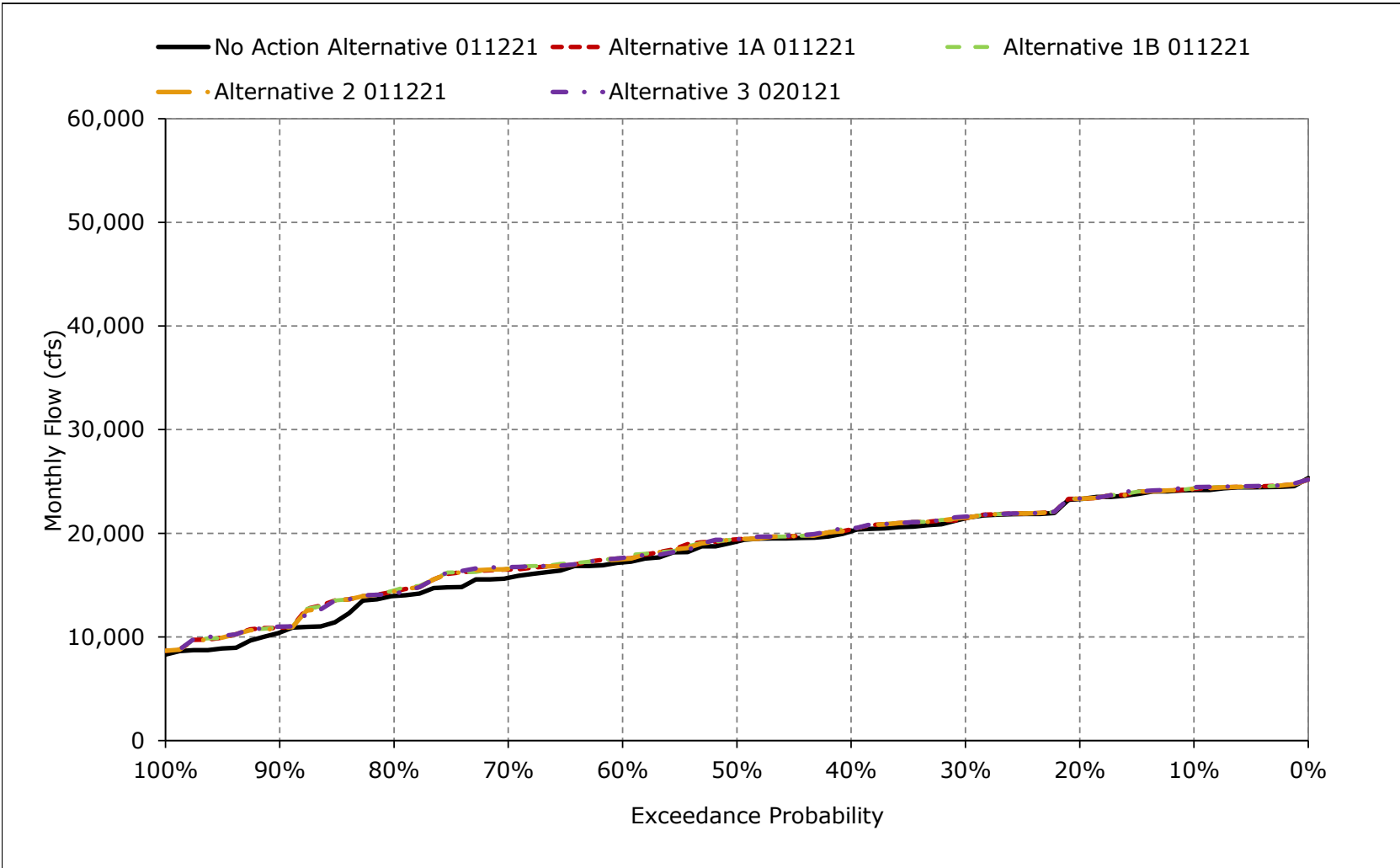
**Figure 5B3-1-14. Sacramento River Flow at Freeport, May**



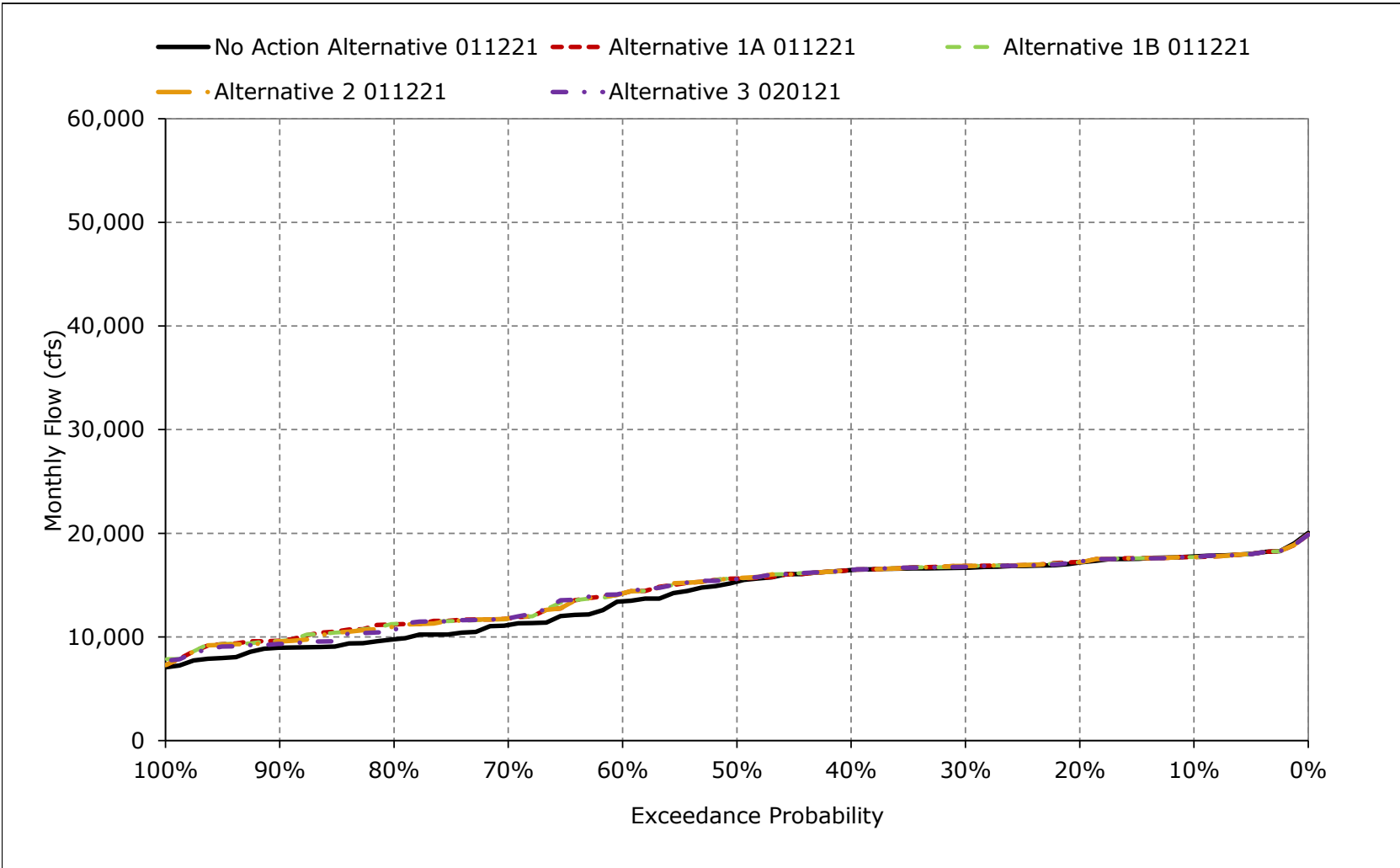
**Figure 5B3-1-15. Sacramento River Flow at Freeport, June**



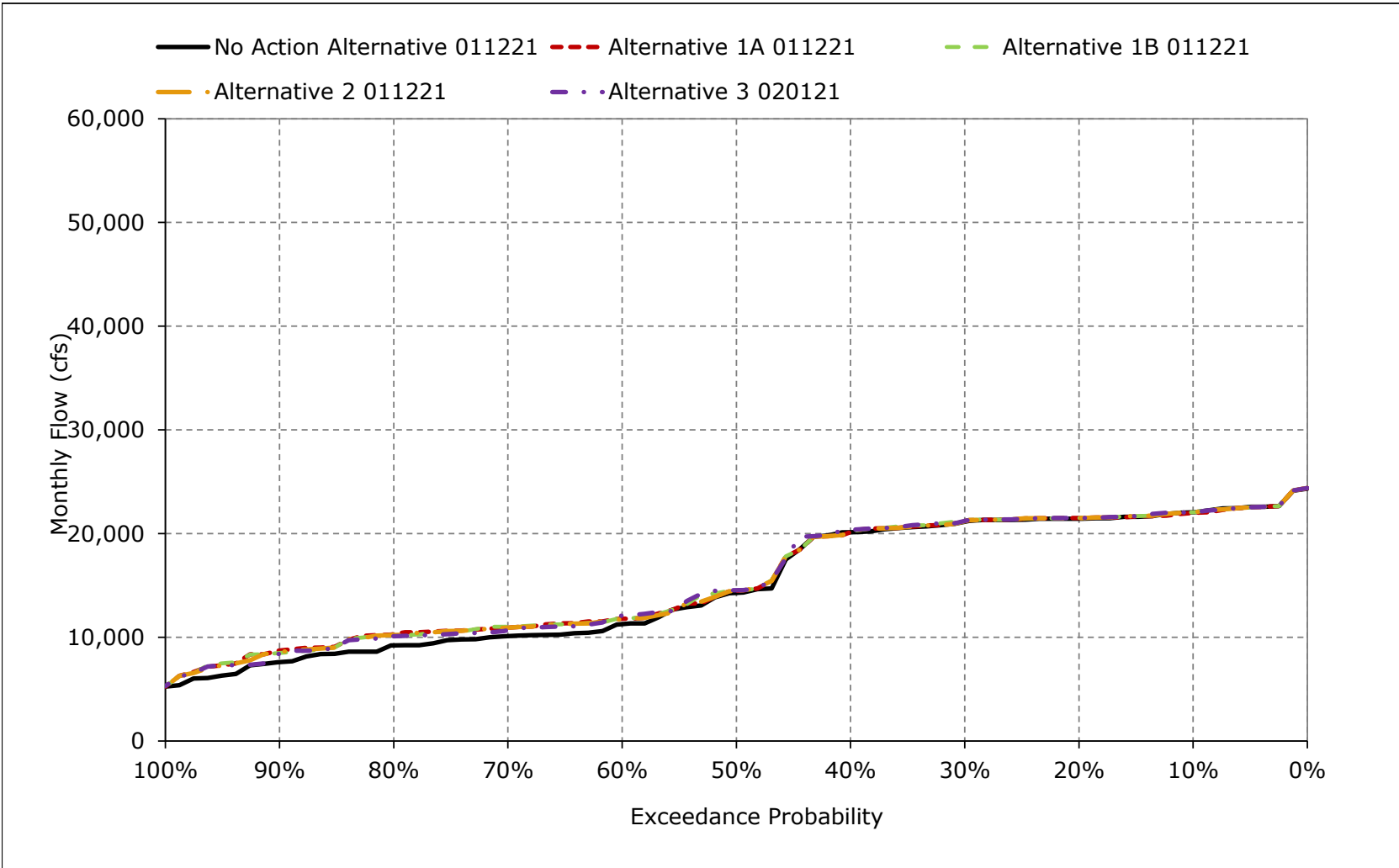
**Figure 5B3-1-16. Sacramento River Flow at Freeport, July**



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



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





**Table 5B3-2-1a. DCC Flow, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,153	1,656	1,006	0	0	0	0	0	3,038	4,496	3,310	4,128
20%	1,954	1,595	879	0	0	0	0	0	2,487	4,281	3,194	4,012
30%	1,739	1,397	768	0	0	0	0	0	2,414	3,925	3,100	3,956
40%	1,601	1,162	634	0	0	0	0	0	2,328	3,685	3,054	3,763
50%	1,456	1,041	416	0	0	0	0	0	2,244	3,506	2,843	2,659
60%	1,354	857	0	0	0	0	0	0	2,104	3,147	2,480	2,084
70%	1,273	734	0	0	0	0	0	0	1,919	2,878	2,050	1,862
80%	749	195	0	0	0	0	0	0	1,684	2,521	1,789	1,692
90%	442	0	0	0	0	0	0	0	119	1,819	1,636	1,387
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	1,383	949	431	0	0	0	0	0	2,062	3,298	2,575	2,738
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	1,243	1,076	517	0	0	0	0	0	2,078	3,461	3,060	4,016
Above Normal (15%)	1,873	1,146	418	0	0	0	0	0	1,871	4,042	3,163	3,920
Below Normal (17%)	1,594	802	370	0	0	0	0	0	2,315	3,939	2,900	2,340
Dry (22%)	1,148	817	357	0	0	0	0	0	2,256	3,056	1,849	1,747
Critical (15%)	1,306	849	443	0	0	0	0	0	1,634	1,813	1,649	737

**Table 5B3-2-1b. DCC Flow, Alternative 1A 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,186	1,667	1,016	0	0	0	0	0	3,073	4,529	3,297	4,118
20%	1,977	1,596	875	0	0	0	0	0	2,492	4,345	3,204	4,023
30%	1,900	1,442	803	0	0	0	0	0	2,426	3,987	3,132	3,968
40%	1,816	1,320	727	0	0	0	0	0	2,324	3,786	3,055	3,765
50%	1,584	1,133	485	0	0	0	0	0	2,254	3,604	2,899	2,697
60%	1,467	897	0	0	0	0	0	0	2,121	3,254	2,628	2,181
70%	1,310	757	0	0	0	0	0	0	1,930	3,054	2,173	2,017
80%	839	422	0	0	0	0	0	0	1,715	2,653	2,063	1,901
90%	508	0	0	0	0	0	0	0	1,193	1,978	1,765	1,601
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	1,471	1,000	446	0	0	0	0	0	2,095	3,438	2,675	2,823
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	1,282	1,158	531	0	0	0	0	0	2,053	3,630	3,046	4,015
Above Normal (15%)	1,862	1,151	443	0	0	0	0	0	2,187	4,054	3,159	3,933
Below Normal (17%)	1,707	809	374	0	0	0	0	0	2,281	3,992	3,015	2,411
Dry (22%)	1,285	881	367	0	0	0	0	0	2,252	3,276	2,119	1,938
Critical (15%)	1,491	911	464	0	0	0	0	0	1,642	2,004	1,823	940

**Table 5B3-2-1c. DCC Flow, Alternative 1A 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	34	12	10	0	0	0	0	0	35	33	-13	-11
20%	23	1	-4	0	0	0	0	0	5	64	10	11
30%	161	45	36	0	0	0	0	0	11	62	31	12
40%	215	158	93	0	0	0	0	0	-5	101	0	1
50%	129	92	69	0	0	0	0	0	10	98	56	38
60%	113	40	0	0	0	0	0	0	17	108	147	97
70%	37	23	0	0	0	0	0	0	11	176	123	155
80%	90	226	0	0	0	0	0	0	31	132	274	209
90%	66	0	0	0	0	0	0	0	1,074	158	129	215
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	87	51	14	0	0	0	0	0	33	141	99	85
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	39	81	14	0	0	0	0	0	-25	169	-14	-1
Above Normal (15%)	-11	6	24	0	0	0	0	0	316	13	-4	14
Below Normal (17%)	113	7	4	0	0	0	0	0	-34	53	116	71
Dry (22%)	137	64	10	0	0	0	0	0	-4	220	270	191
Critical (15%)	186	62	21	0	0	0	0	0	8	191	174	203

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B3-2-2a. DCC Flow, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,153	1,656	1,006	0	0	0	0	0	3,038	4,496	3,310	4,128
20%	1,954	1,595	879	0	0	0	0	0	2,487	4,281	3,194	4,012
30%	1,739	1,397	768	0	0	0	0	0	2,414	3,925	3,100	3,956
40%	1,601	1,162	634	0	0	0	0	0	2,328	3,685	3,054	3,763
50%	1,456	1,041	416	0	0	0	0	0	2,244	3,506	2,843	2,659
60%	1,354	857	0	0	0	0	0	0	2,104	3,147	2,480	2,084
70%	1,273	734	0	0	0	0	0	0	1,919	2,878	2,050	1,862
80%	749	195	0	0	0	0	0	0	1,684	2,521	1,789	1,692
90%	442	0	0	0	0	0	0	0	119	1,819	1,636	1,387
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	1,383	949	431	0	0	0	0	0	2,062	3,298	2,575	2,738
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	1,243	1,076	517	0	0	0	0	0	2,078	3,461	3,060	4,016
Above Normal (15%)	1,873	1,146	418	0	0	0	0	0	1,871	4,042	3,163	3,920
Below Normal (17%)	1,594	802	370	0	0	0	0	0	2,315	3,939	2,900	2,340
Dry (22%)	1,148	817	357	0	0	0	0	0	2,256	3,056	1,849	1,747
Critical (15%)	1,306	849	443	0	0	0	0	0	1,634	1,813	1,649	737

**Table 5B3-2-2b. DCC Flow, Alternative 1B 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,189	1,678	1,016	0	0	0	0	0	3,073	4,536	3,297	4,128
20%	1,970	1,596	883	0	0	0	0	0	2,483	4,347	3,201	4,023
30%	1,887	1,443	805	0	0	0	0	0	2,425	3,991	3,128	3,978
40%	1,782	1,291	726	0	0	0	0	0	2,327	3,802	3,055	3,762
50%	1,566	1,121	489	0	0	0	0	0	2,246	3,602	2,905	2,701
60%	1,498	926	0	0	0	0	0	0	2,121	3,278	2,628	2,183
70%	1,368	794	0	0	0	0	0	0	1,930	3,072	2,165	2,036
80%	853	469	0	0	0	0	0	0	1,715	2,675	2,071	1,881
90%	438	0	0	0	0	0	0	0	1,193	1,990	1,759	1,556
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	1,464	1,010	445	0	0	0	0	0	2,096	3,443	2,675	2,806
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	1,288	1,158	529	0	0	0	0	0	2,053	3,631	3,045	4,020
Above Normal (15%)	1,863	1,154	443	0	0	0	0	0	2,188	4,056	3,159	3,945
Below Normal (17%)	1,666	795	375	0	0	0	0	0	2,277	3,993	3,016	2,429
Dry (22%)	1,288	928	367	0	0	0	0	0	2,260	3,294	2,122	1,923
Critical (15%)	1,475	918	461	0	0	0	0	0	1,641	2,006	1,824	802

**Table 5B3-2-2c. DCC Flow, Alternative 1B 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	36	22	10	0	0	0	0	0	35	40	-13	0
20%	16	1	3	0	0	0	0	0	-4	66	7	10
30%	147	46	38	0	0	0	0	0	11	66	28	22
40%	182	128	92	0	0	0	0	0	-1	117	0	-2
50%	110	80	73	0	0	0	0	0	2	96	61	43
60%	144	68	0	0	0	0	0	0	17	132	148	99
70%	95	60	0	0	0	0	0	0	11	194	115	174
80%	105	273	0	0	0	0	0	0	31	155	283	190
90%	-4	0	0	0	0	0	0	0	1,074	170	123	170
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	81	60	13	0	0	0	0	0	34	145	100	68
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	46	82	12	0	0	0	0	0	-25	169	-15	4
Above Normal (15%)	-10	9	25	0	0	0	0	0	318	14	-4	25
Below Normal (17%)	72	-7	5	0	0	0	0	0	-37	53	116	89
Dry (22%)	139	111	10	0	0	0	0	0	4	238	273	176
Critical (15%)	169	69	18	0	0	0	0	0	8	193	174	65

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B3-2-3a. DCC Flow, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,153	1,656	1,006	0	0	0	0	0	3,038	4,496	3,310	4,128
20%	1,954	1,595	879	0	0	0	0	0	2,487	4,281	3,194	4,012
30%	1,739	1,397	768	0	0	0	0	0	2,414	3,925	3,100	3,956
40%	1,601	1,162	634	0	0	0	0	0	2,328	3,685	3,054	3,763
50%	1,456	1,041	416	0	0	0	0	0	2,244	3,506	2,843	2,659
60%	1,354	857	0	0	0	0	0	0	2,104	3,147	2,480	2,084
70%	1,273	734	0	0	0	0	0	0	1,919	2,878	2,050	1,862
80%	749	195	0	0	0	0	0	0	1,684	2,521	1,789	1,692
90%	442	0	0	0	0	0	0	0	119	1,819	1,636	1,387
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	1,383	949	431	0	0	0	0	0	2,062	3,298	2,575	2,738
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	1,243	1,076	517	0	0	0	0	0	2,078	3,461	3,060	4,016
Above Normal (15%)	1,873	1,146	418	0	0	0	0	0	1,871	4,042	3,163	3,920
Below Normal (17%)	1,594	802	370	0	0	0	0	0	2,315	3,939	2,900	2,340
Dry (22%)	1,148	817	357	0	0	0	0	0	2,256	3,056	1,849	1,747
Critical (15%)	1,306	849	443	0	0	0	0	0	1,634	1,813	1,649	737

**Table 5B3-2-3b. DCC Flow, Alternative 2 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,186	1,667	1,016	0	0	0	0	0	3,073	4,529	3,297	4,128
20%	1,977	1,596	875	0	0	0	0	0	2,492	4,347	3,201	4,023
30%	1,895	1,442	803	0	0	0	0	0	2,426	3,997	3,132	3,965
40%	1,816	1,310	727	0	0	0	0	0	2,324	3,786	3,055	3,765
50%	1,575	1,118	485	0	0	0	0	0	2,254	3,605	2,903	2,697
60%	1,461	899	0	0	0	0	0	0	2,121	3,239	2,627	2,172
70%	1,379	776	0	0	0	0	0	0	1,930	3,063	2,173	2,016
80%	853	423	0	0	0	0	0	0	1,715	2,653	2,024	1,889
90%	439	0	0	0	0	0	0	0	1,193	1,978	1,750	1,564
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	1,470	1,001	445	0	0	0	0	0	2,095	3,437	2,669	2,819
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	1,277	1,158	531	0	0	0	0	0	2,054	3,631	3,053	4,020
Above Normal (15%)	1,862	1,153	443	0	0	0	0	0	2,187	4,055	3,159	3,934
Below Normal (17%)	1,694	812	375	0	0	0	0	0	2,281	3,993	3,007	2,408
Dry (22%)	1,310	875	367	0	0	0	0	0	2,252	3,273	2,108	1,927
Critical (15%)	1,475	922	458	0	0	0	0	0	1,642	1,994	1,793	921

**Table 5B3-2-3c. DCC Flow, Alternative 2 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	34	12	10	0	0	0	0	0	35	33	-13	0
20%	23	1	-4	0	0	0	0	0	5	66	8	11
30%	155	45	35	0	0	0	0	0	11	72	31	9
40%	216	148	93	0	0	0	0	0	-5	101	0	2
50%	120	77	69	0	0	0	0	0	10	98	60	38
60%	107	42	0	0	0	0	0	0	17	92	147	89
70%	106	42	0	0	0	0	0	0	11	185	123	154
80%	105	227	0	0	0	0	0	0	31	132	236	197
90%	-3	0	0	0	0	0	0	0	1,074	159	115	178
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	87	52	13	0	0	0	0	0	33	139	93	82
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	35	82	14	0	0	0	0	0	-25	170	-7	4
Above Normal (15%)	-11	7	24	0	0	0	0	0	316	13	-4	14
Below Normal (17%)	100	10	4	0	0	0	0	0	-34	53	107	69
Dry (22%)	162	57	10	0	0	0	0	0	-4	217	258	180
Critical (15%)	170	73	16	0	0	0	0	0	8	181	143	184

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B3-2-4a. DCC Flow, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,153	1,656	1,006	0	0	0	0	0	3,038	4,496	3,310	4,128
20%	1,954	1,595	879	0	0	0	0	0	2,487	4,281	3,194	4,012
30%	1,739	1,397	768	0	0	0	0	0	2,414	3,925	3,100	3,956
40%	1,601	1,162	634	0	0	0	0	0	2,328	3,685	3,054	3,763
50%	1,456	1,041	416	0	0	0	0	0	2,244	3,506	2,843	2,659
60%	1,354	857	0	0	0	0	0	0	2,104	3,147	2,480	2,084
70%	1,273	734	0	0	0	0	0	0	1,919	2,878	2,050	1,862
80%	749	195	0	0	0	0	0	0	1,684	2,521	1,789	1,692
90%	442	0	0	0	0	0	0	0	119	1,819	1,636	1,387
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	1,383	949	431	0	0	0	0	0	2,062	3,298	2,575	2,738
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	1,243	1,076	517	0	0	0	0	0	2,078	3,461	3,060	4,016
Above Normal (15%)	1,873	1,146	418	0	0	0	0	0	1,871	4,042	3,163	3,920
Below Normal (17%)	1,594	802	370	0	0	0	0	0	2,315	3,939	2,900	2,340
Dry (22%)	1,148	817	357	0	0	0	0	0	2,256	3,056	1,849	1,747
Critical (15%)	1,306	849	443	0	0	0	0	0	1,634	1,813	1,649	737

**Table 5B3-2-4b. DCC Flow, Alternative 3 020121, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,247	1,681	1,015	0	0	0	0	0	3,074	4,557	3,297	4,129
20%	1,970	1,608	873	0	0	0	0	0	2,467	4,350	3,211	4,024
30%	1,912	1,444	752	0	0	0	0	0	2,417	4,018	3,116	3,970
40%	1,702	1,249	714	0	0	0	0	0	2,326	3,812	3,057	3,807
50%	1,502	1,048	490	0	0	0	0	0	2,255	3,607	2,893	2,708
60%	1,410	918	0	0	0	0	0	0	2,127	3,264	2,633	2,236
70%	1,312	851	0	0	0	0	0	0	1,946	3,096	2,172	1,973
80%	956	425	0	0	0	0	0	0	1,715	2,614	1,951	1,860
90%	571	0	0	0	0	0	0	0	1,213	2,005	1,703	1,539
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	1,468	1,000	440	0	0	0	0	0	2,096	3,445	2,663	2,805
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	1,282	1,158	525	0	0	0	0	0	2,054	3,632	3,043	4,008
Above Normal (15%)	1,742	1,139	447	0	0	0	0	0	2,189	4,073	3,159	4,002
Below Normal (17%)	1,611	778	372	0	0	0	0	0	2,276	4,004	3,009	2,438
Dry (22%)	1,495	913	361	0	0	0	0	0	2,264	3,289	2,067	1,899
Critical (15%)	1,387	907	445	0	0	0	0	0	1,635	1,991	1,834	791

**Table 5B3-2-4c. DCC Flow, Alternative 3 020121 minus No Action Alternative 011221, Monthly Flow (cfs)**

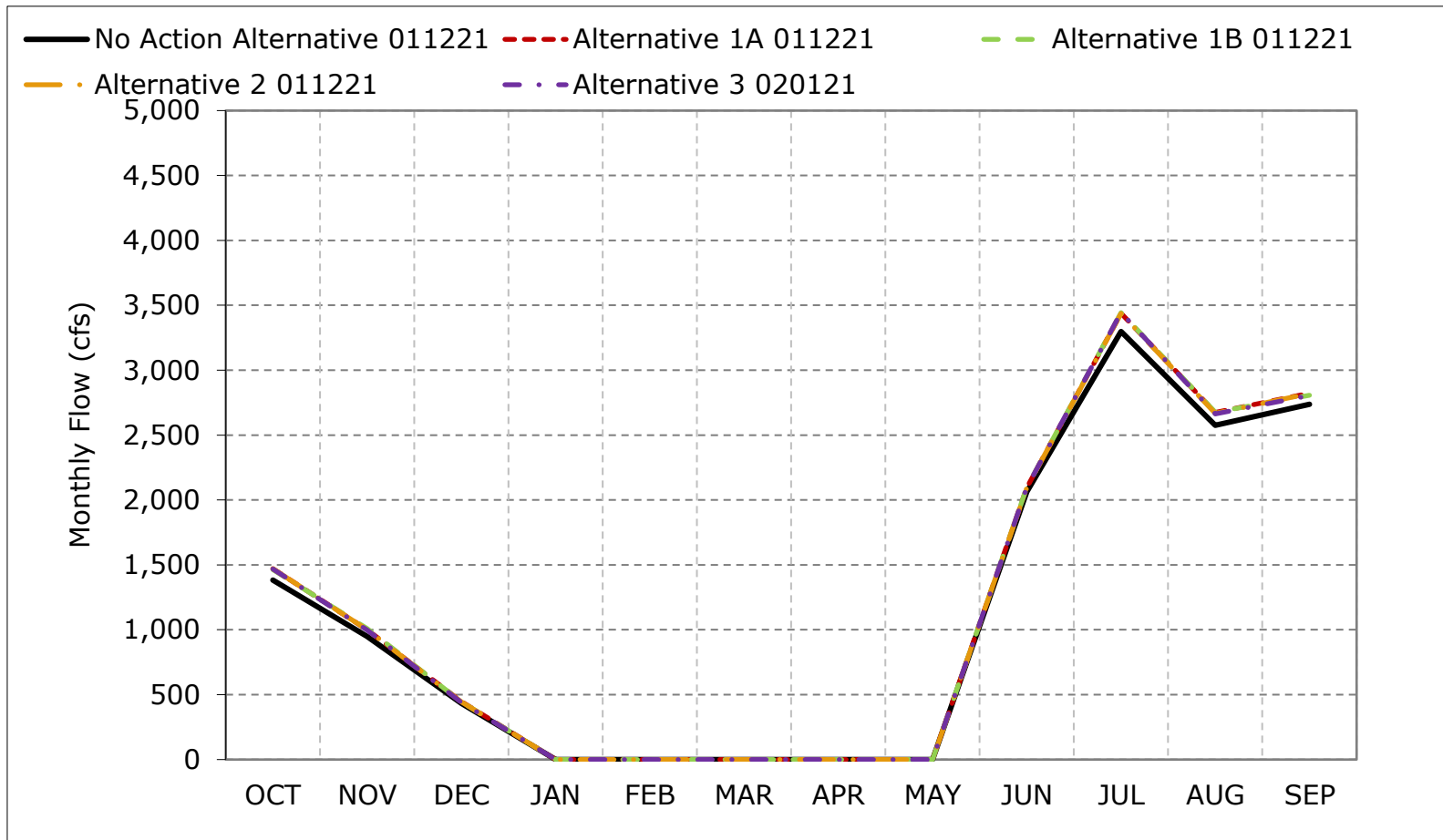
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	94	25	9	0	0	0	0	0	36	60	-13	0
20%	16	13	-6	0	0	0	0	0	-20	69	17	11
30%	172	47	-15	0	0	0	0	0	2	93	16	14
40%	101	87	80	0	0	0	0	0	-3	126	2	44
50%	46	6	75	0	0	0	0	0	11	101	50	49
60%	55	60	0	0	0	0	0	0	24	118	153	152
70%	39	116	0	0	0	0	0	0	28	218	122	111
80%	207	229	0	0	0	0	0	0	31	94	162	169
90%	129	0	0	0	0	0	0	0	1,094	186	67	152
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	84	50	8	0	0	0	0	0	34	147	88	68
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	40	82	9	0	0	0	0	0	-24	170	-17	-8
Above Normal (15%)	-131	-7	29	0	0	0	0	0	318	32	-3	82
Below Normal (17%)	17	-24	1	0	0	0	0	0	-39	65	110	99
Dry (22%)	346	96	4	0	0	0	0	0	7	233	218	152
Critical (15%)	81	58	2	0	0	0	0	0	1	178	184	55

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

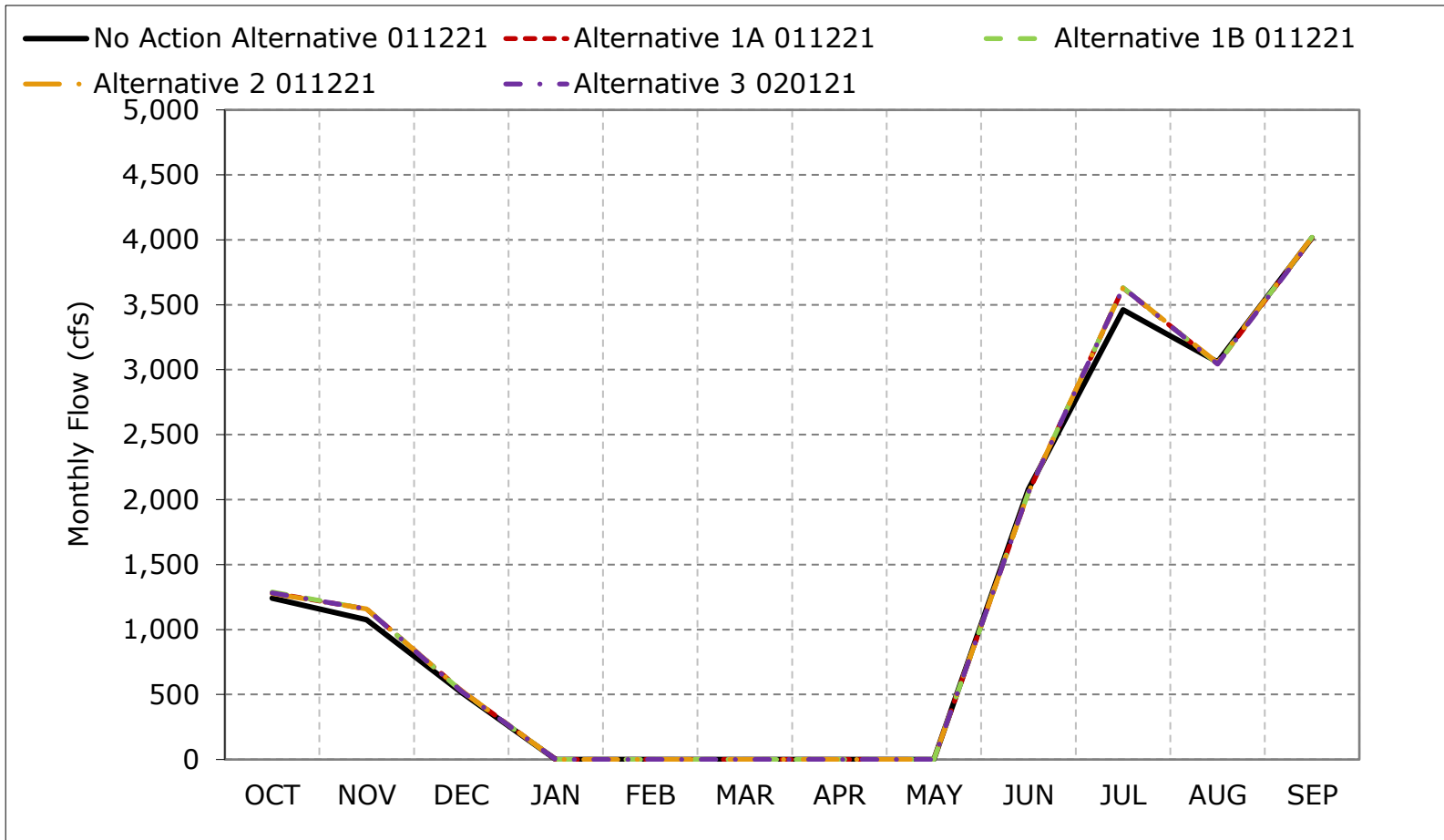
**Figure 5B3-2-1. DCC Flow, Long-Term Average Flow**



\*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.

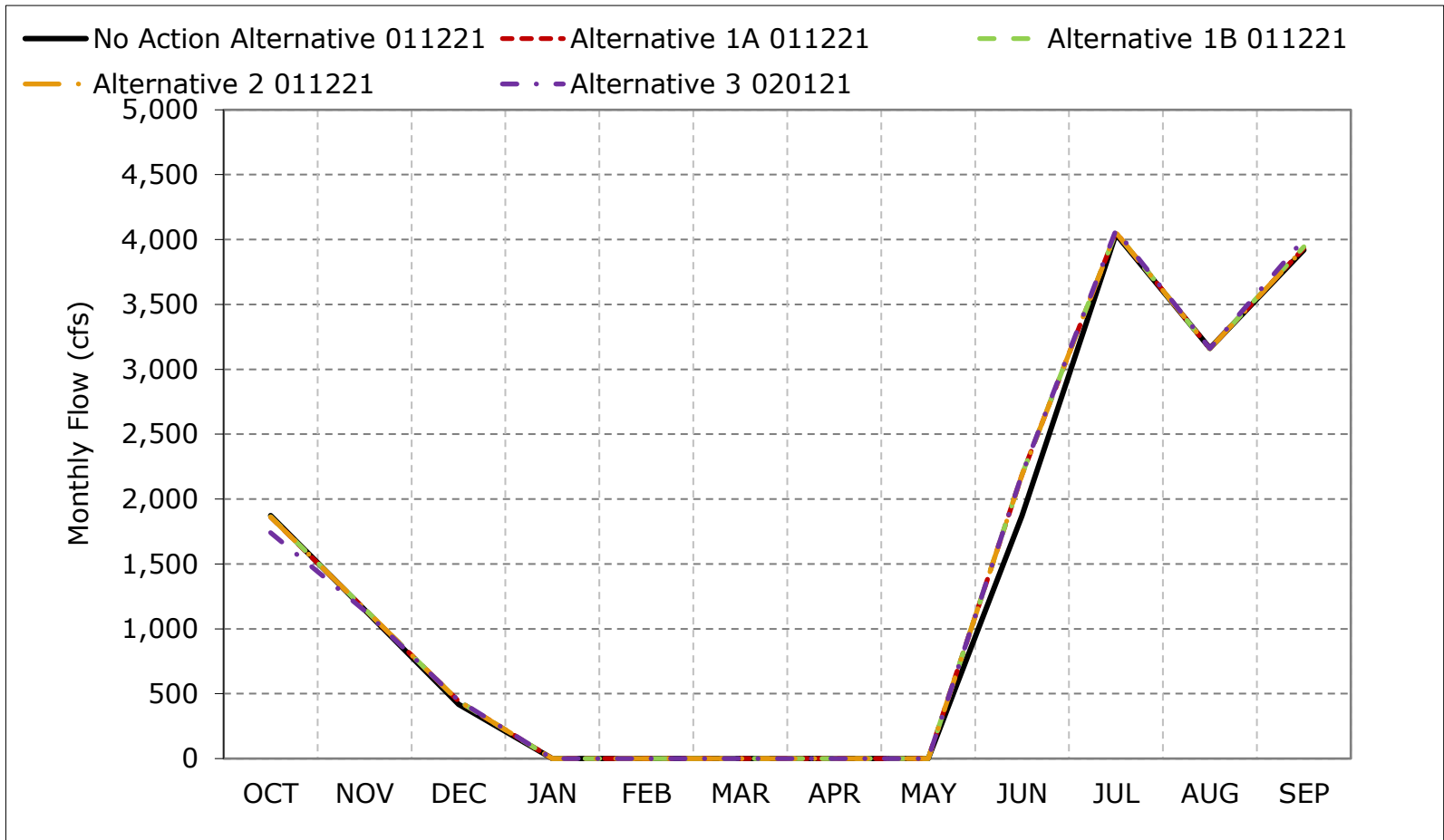
**Figure 5B3-2-2. DCC Flow, Wet Year Average Flow**



\*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.

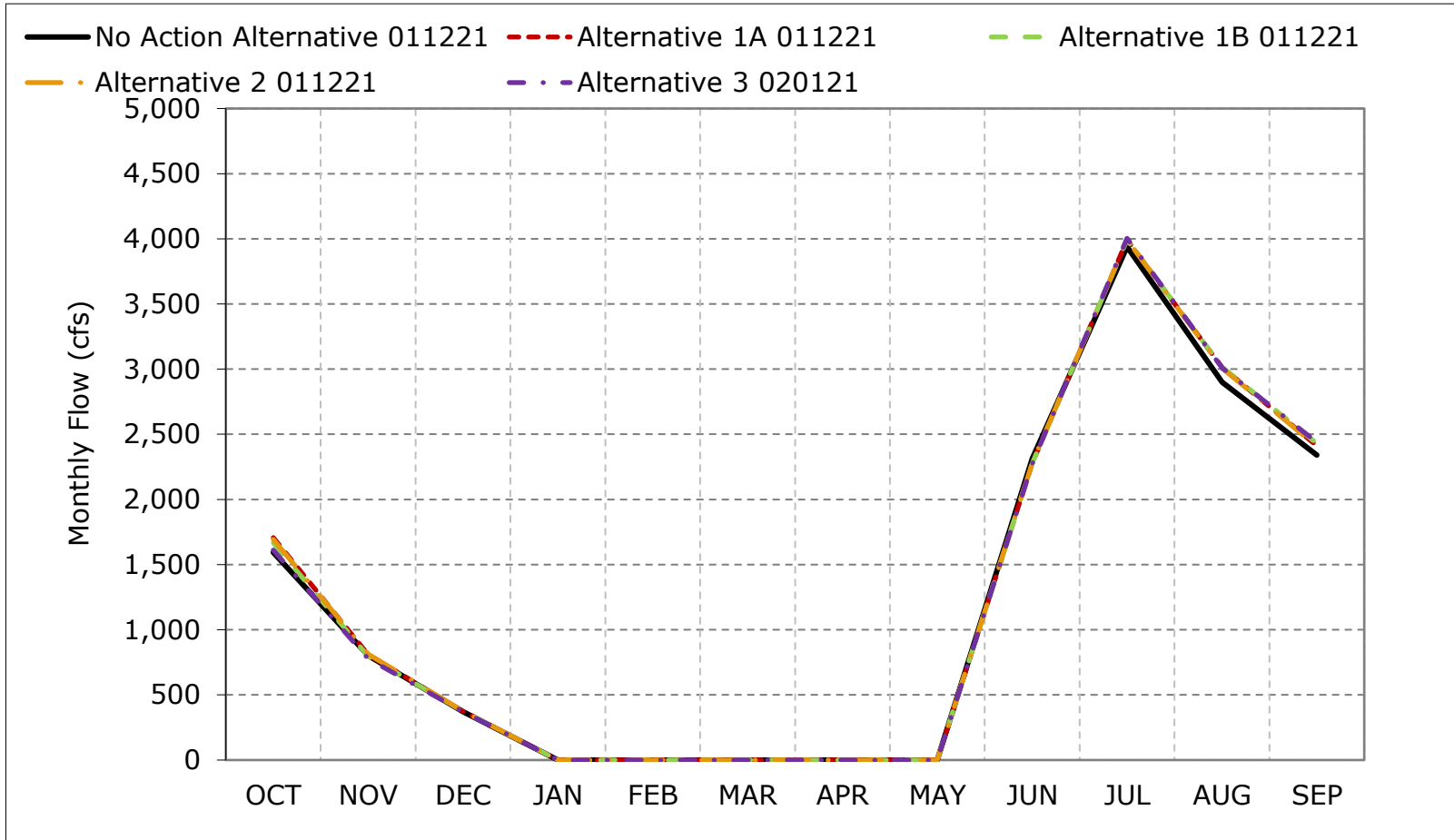
**Figure 5B3-2-3. DCC Flow, Above Normal Year Average Flow**



\*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.

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

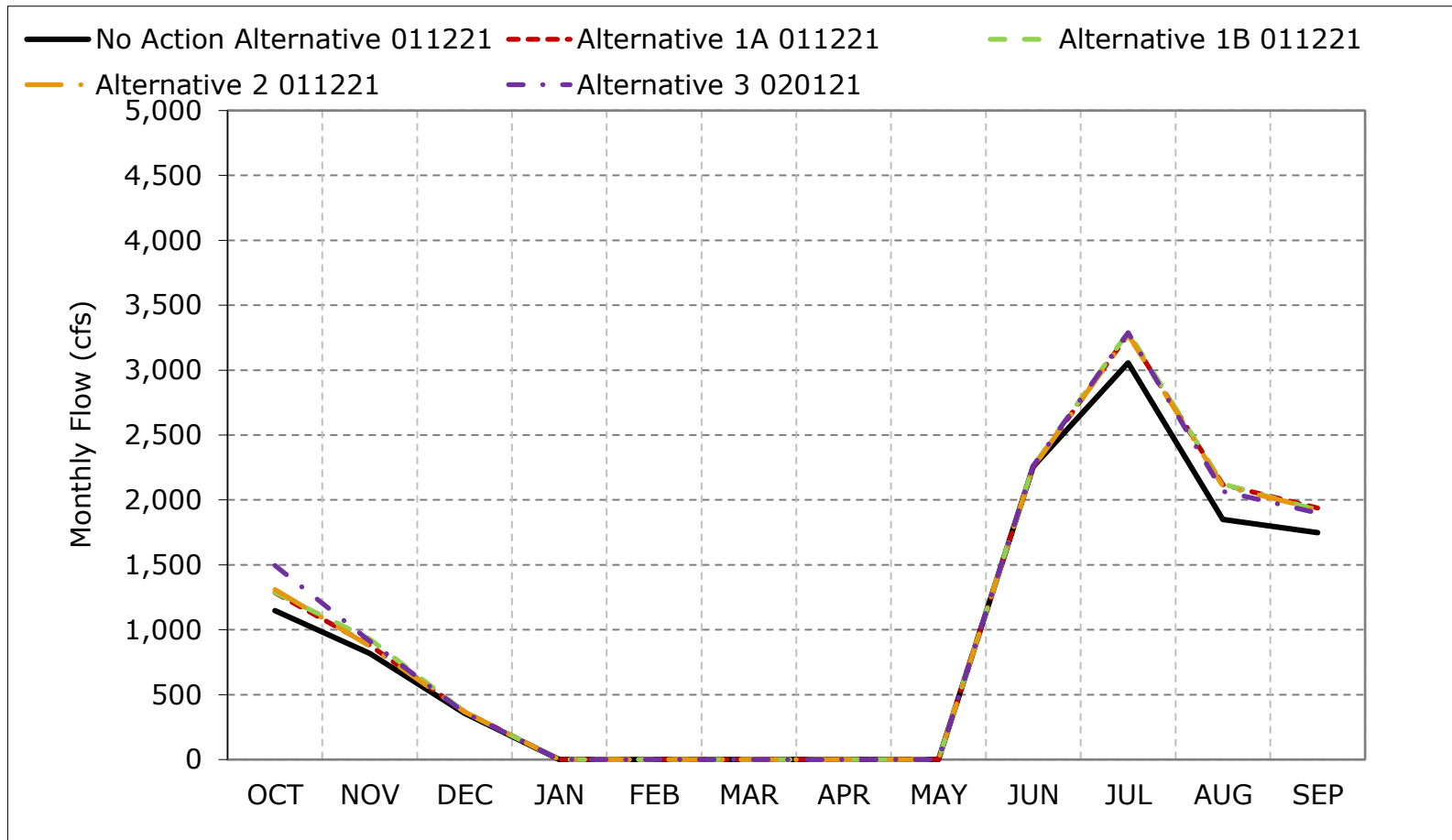


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with calendar year - year type sorting.



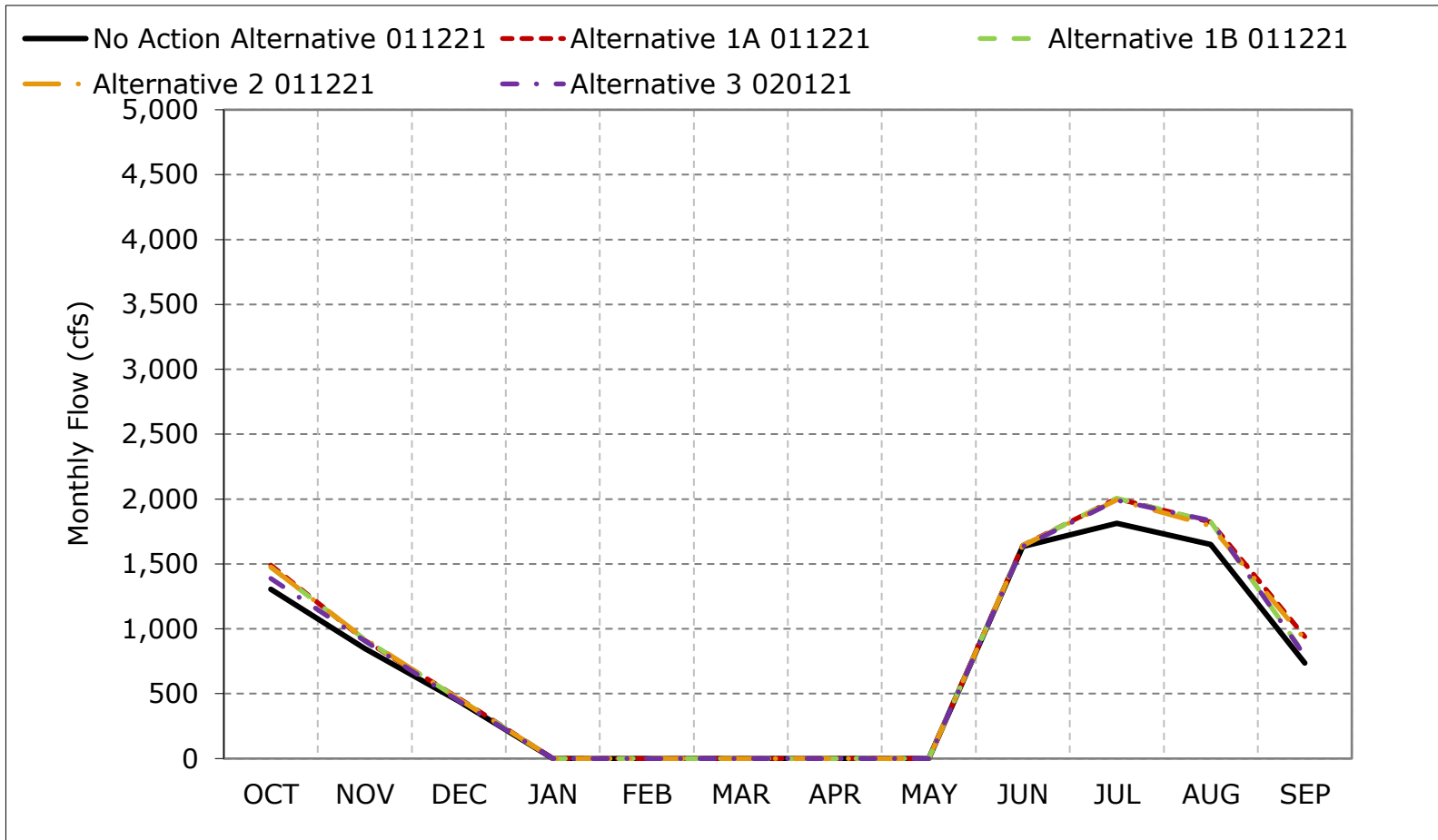
**Figure 5B3-2-5. DCC Flow, Dry Year Average Flow**



\*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.

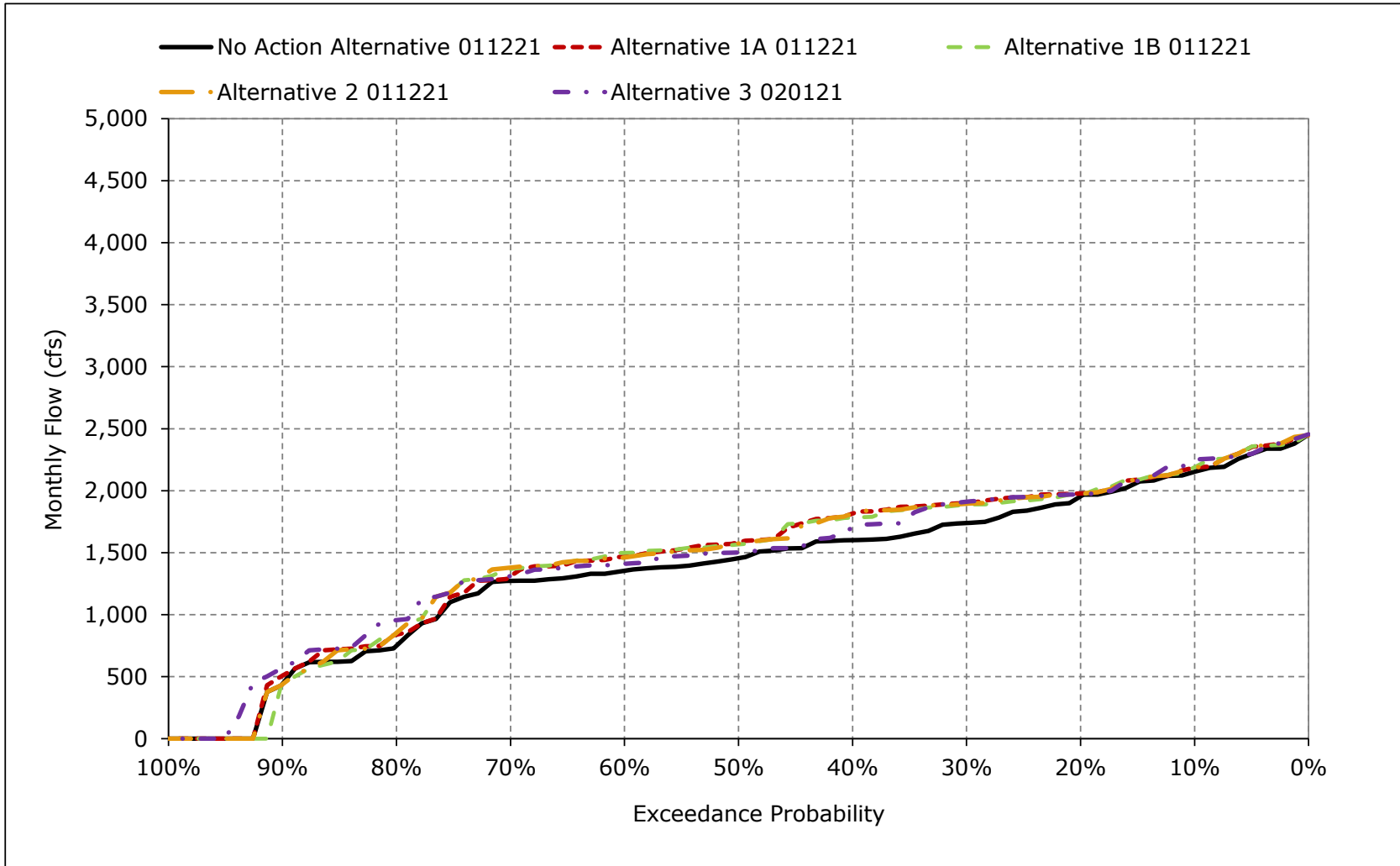
**Figure 5B3-2-6. DCC Flow, Critical Year Average Flow**



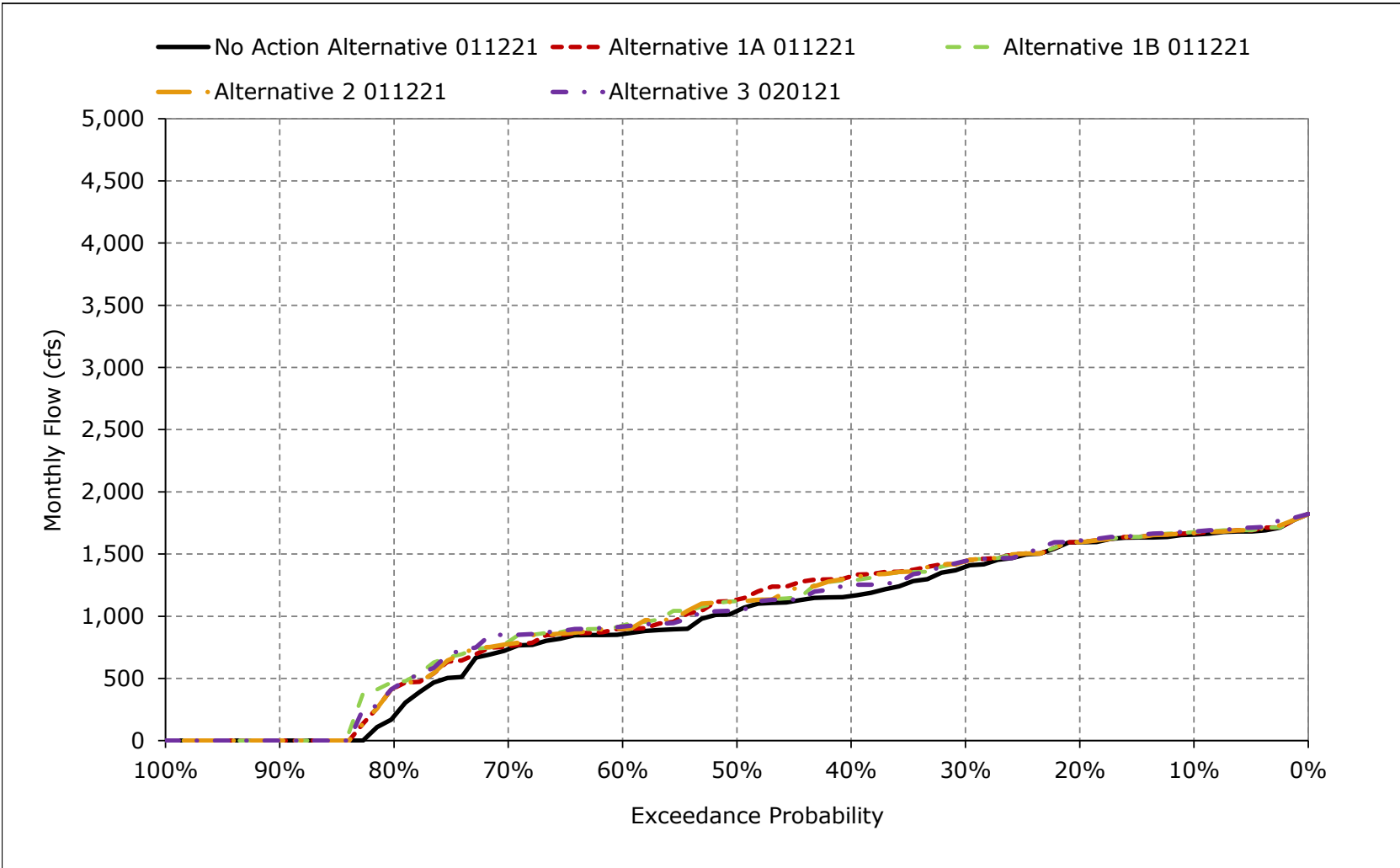
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with calendar year - year type sorting.

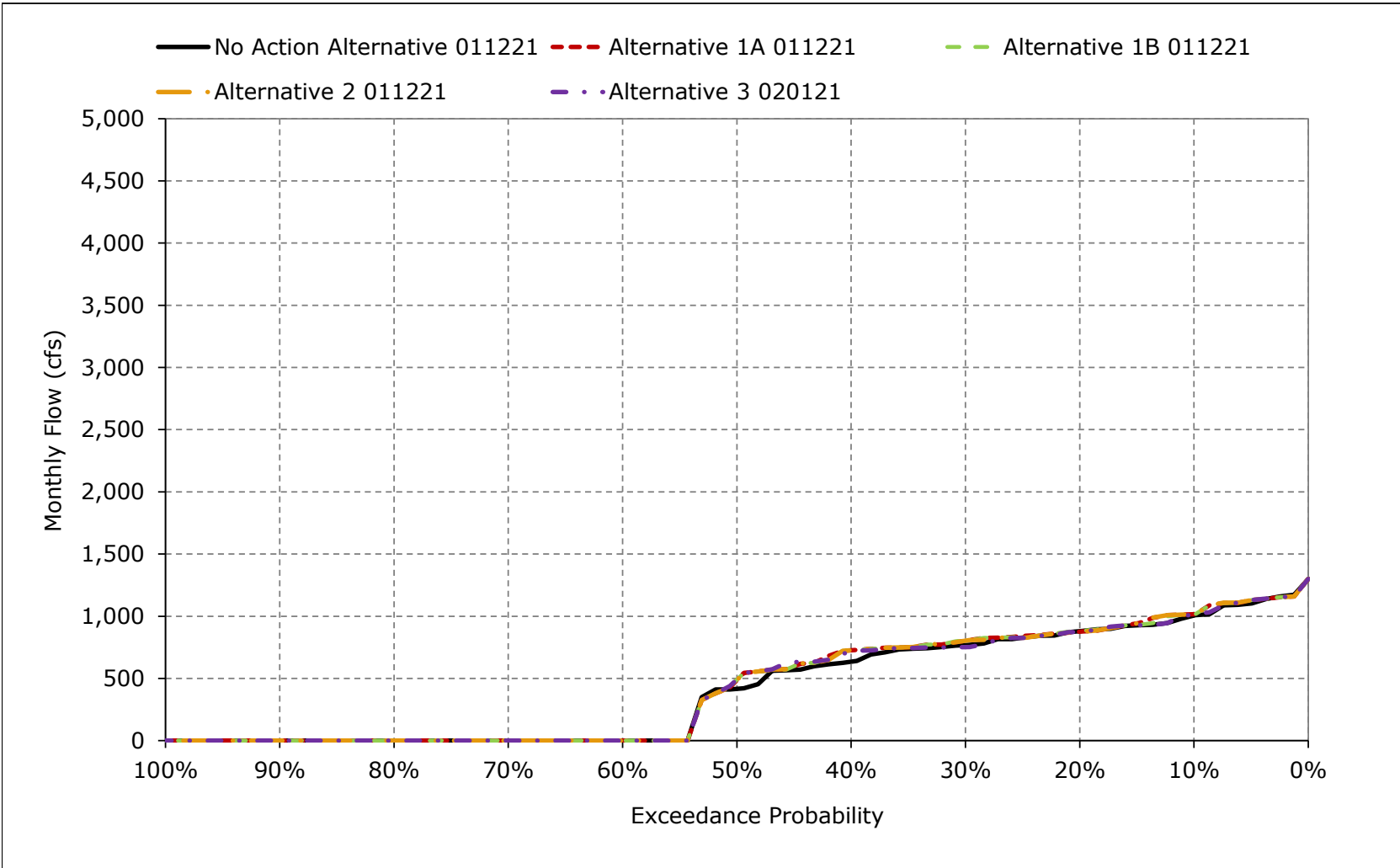
**Figure 5B3-2-7. DCC Flow, October**



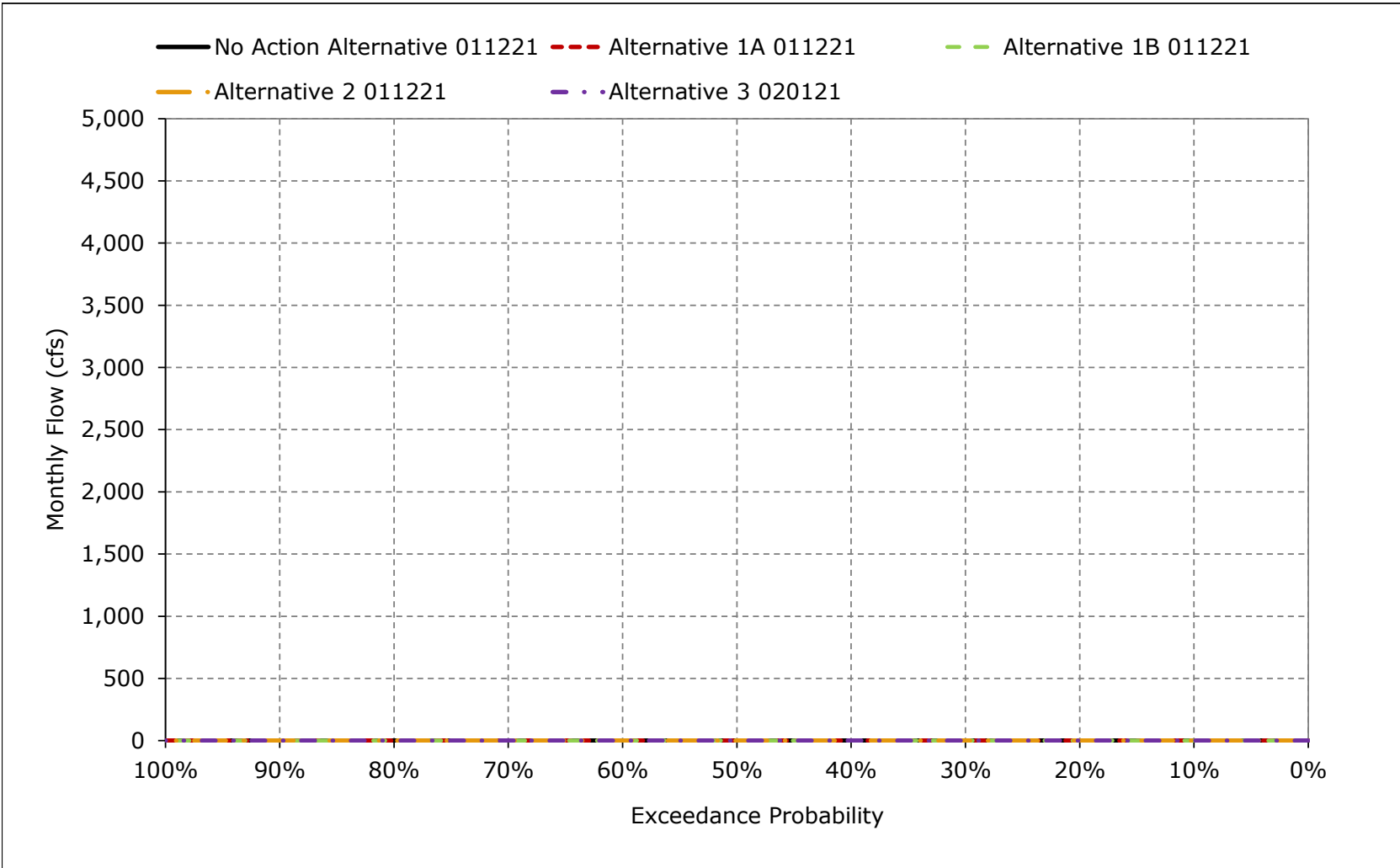
**Figure 5B3-2-8. DCC Flow, November**



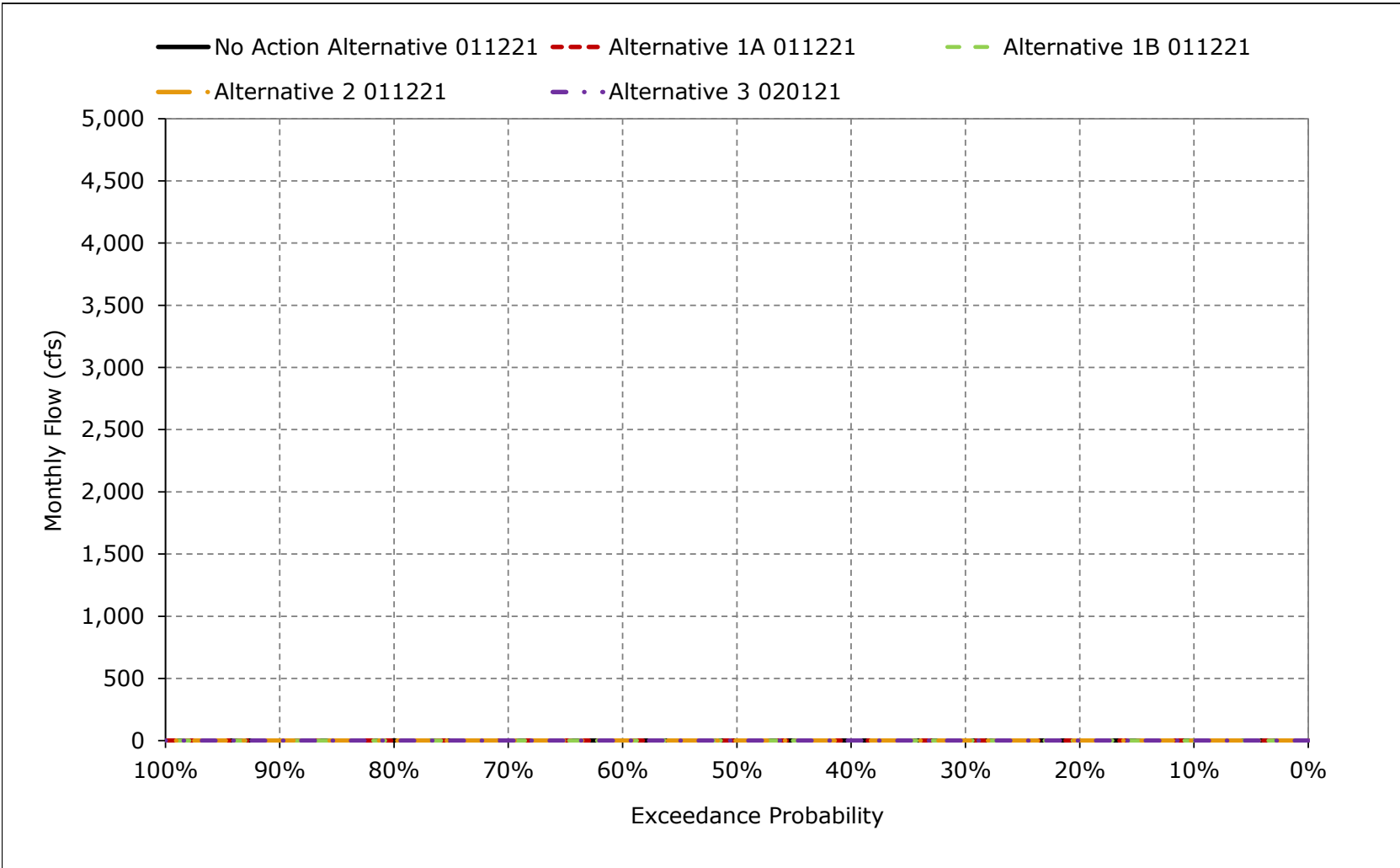
**Figure 5B3-2-9. DCC Flow, December**



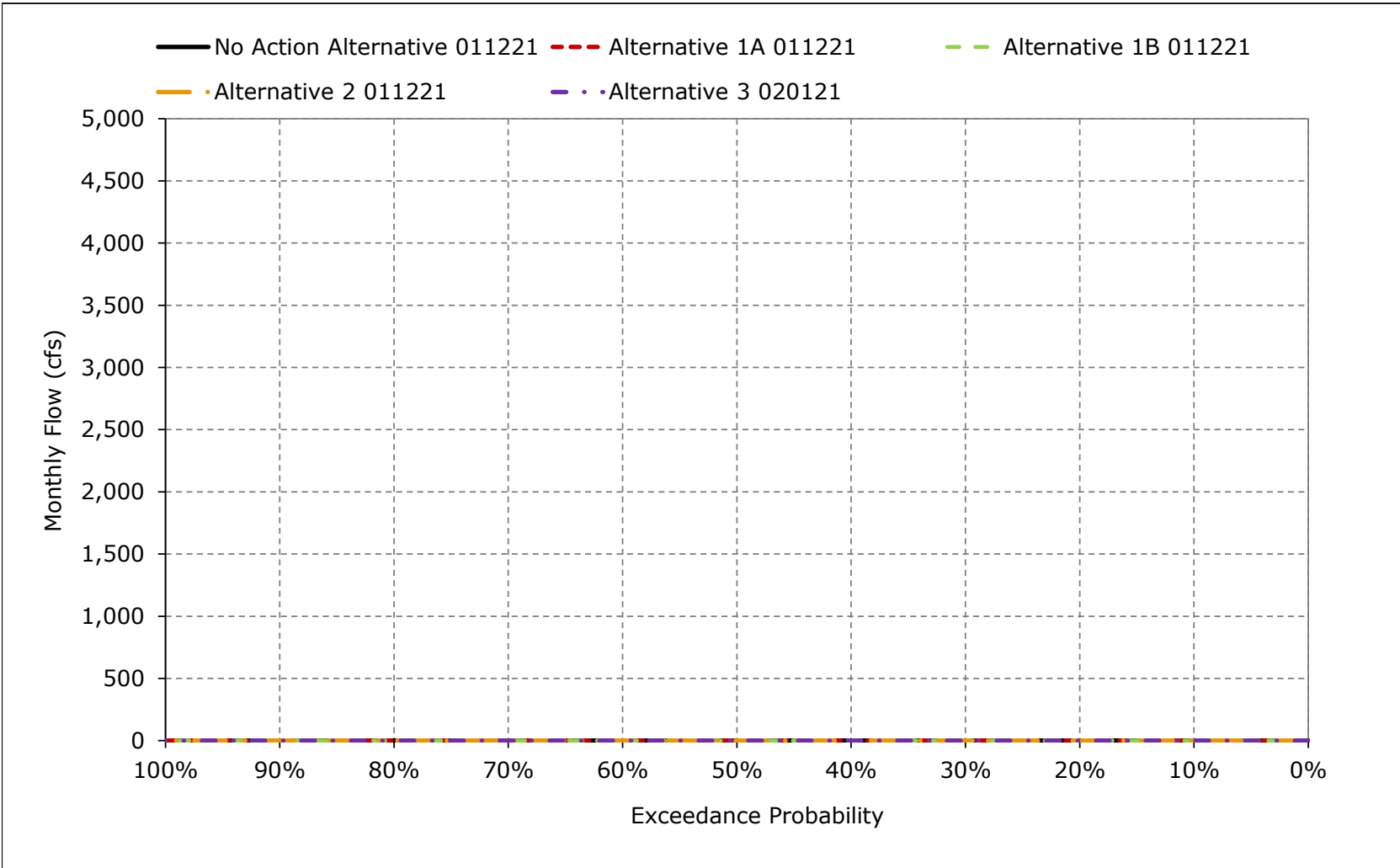
**Figure 5B3-2-10. DCC Flow, January**



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

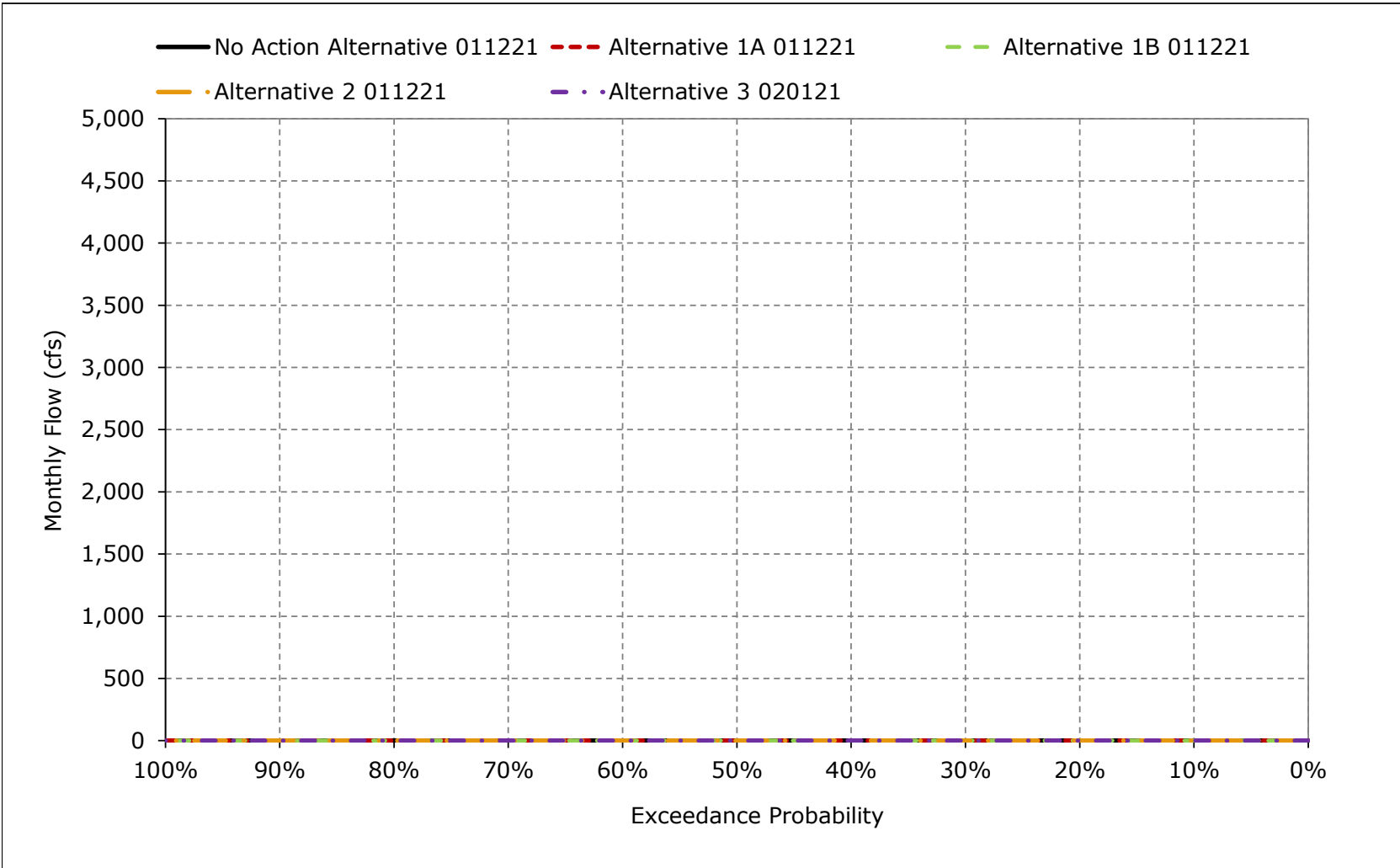


**Figure 5B3-2-12. DCC Flow, March**

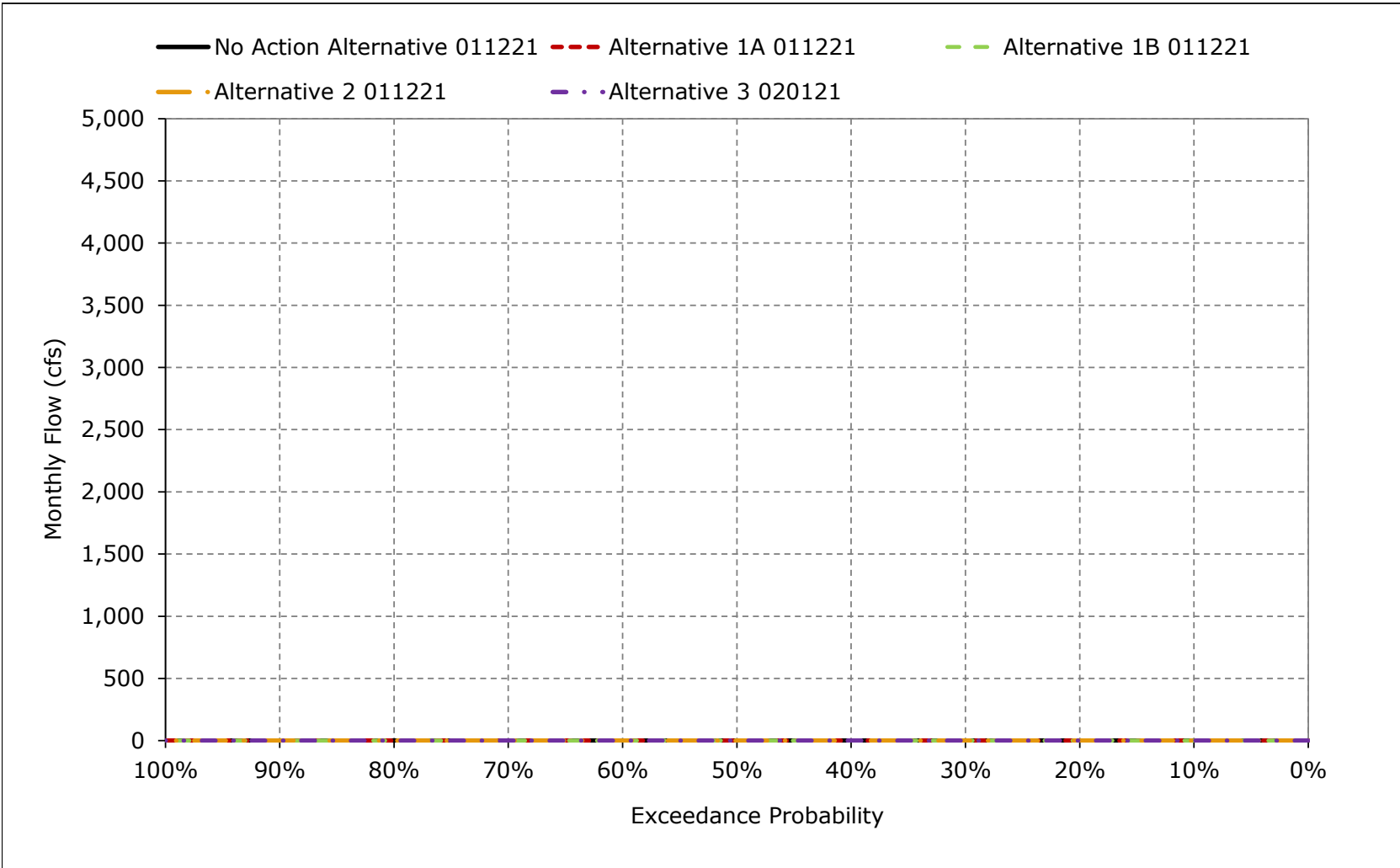




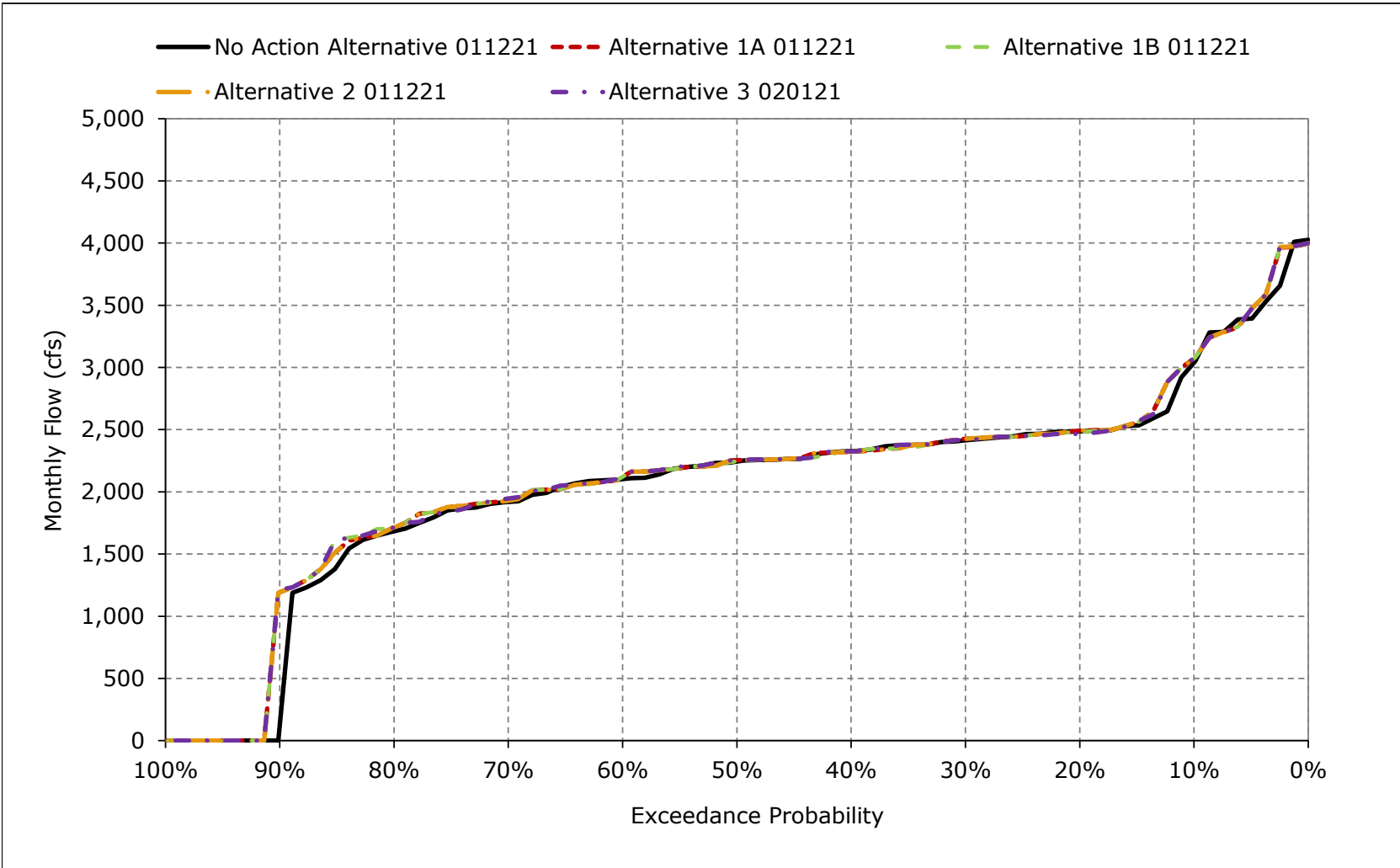
**Figure 5B3-2-13. DCC Flow, April**



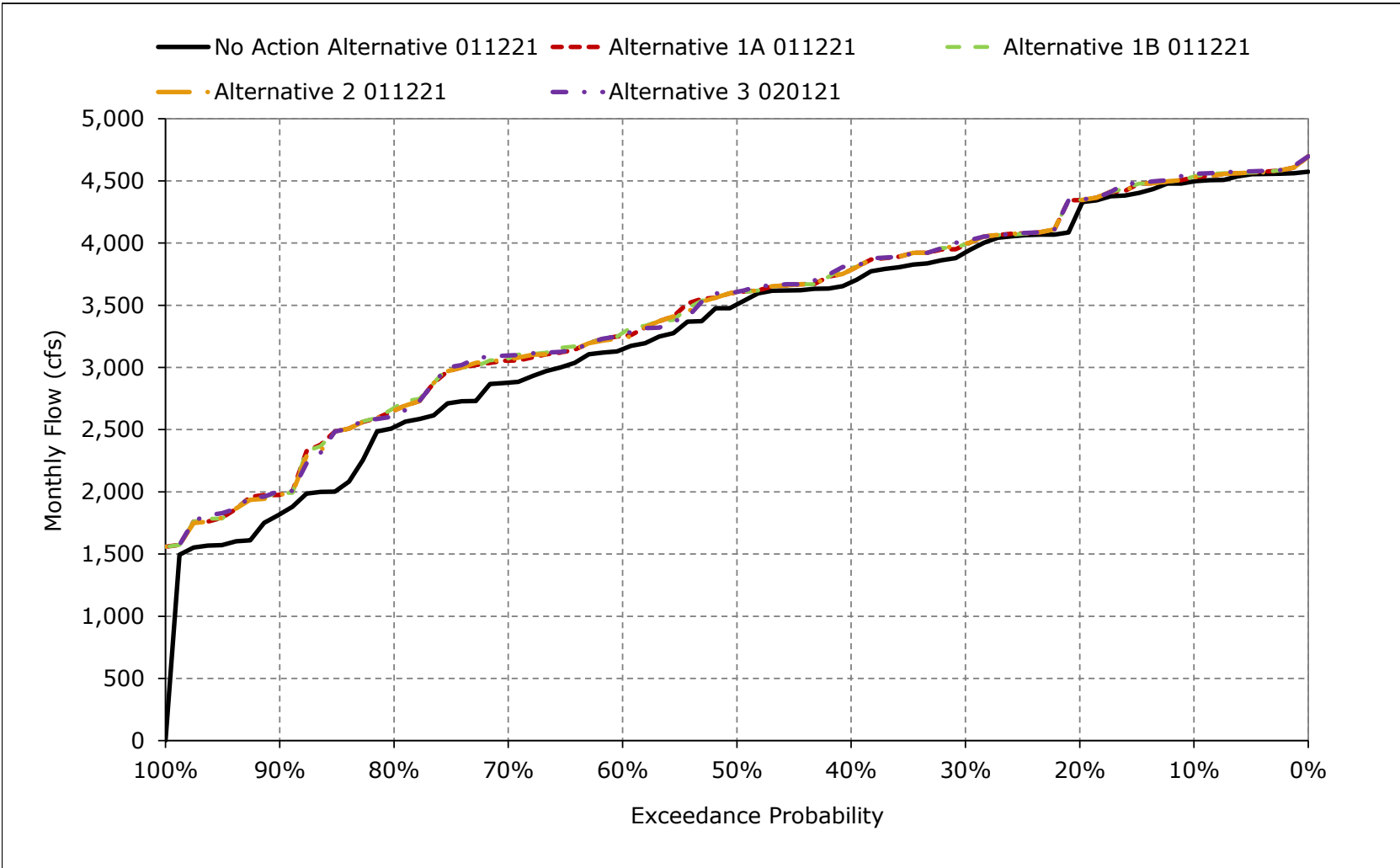
**Figure 5B3-2-14. DCC Flow, May**



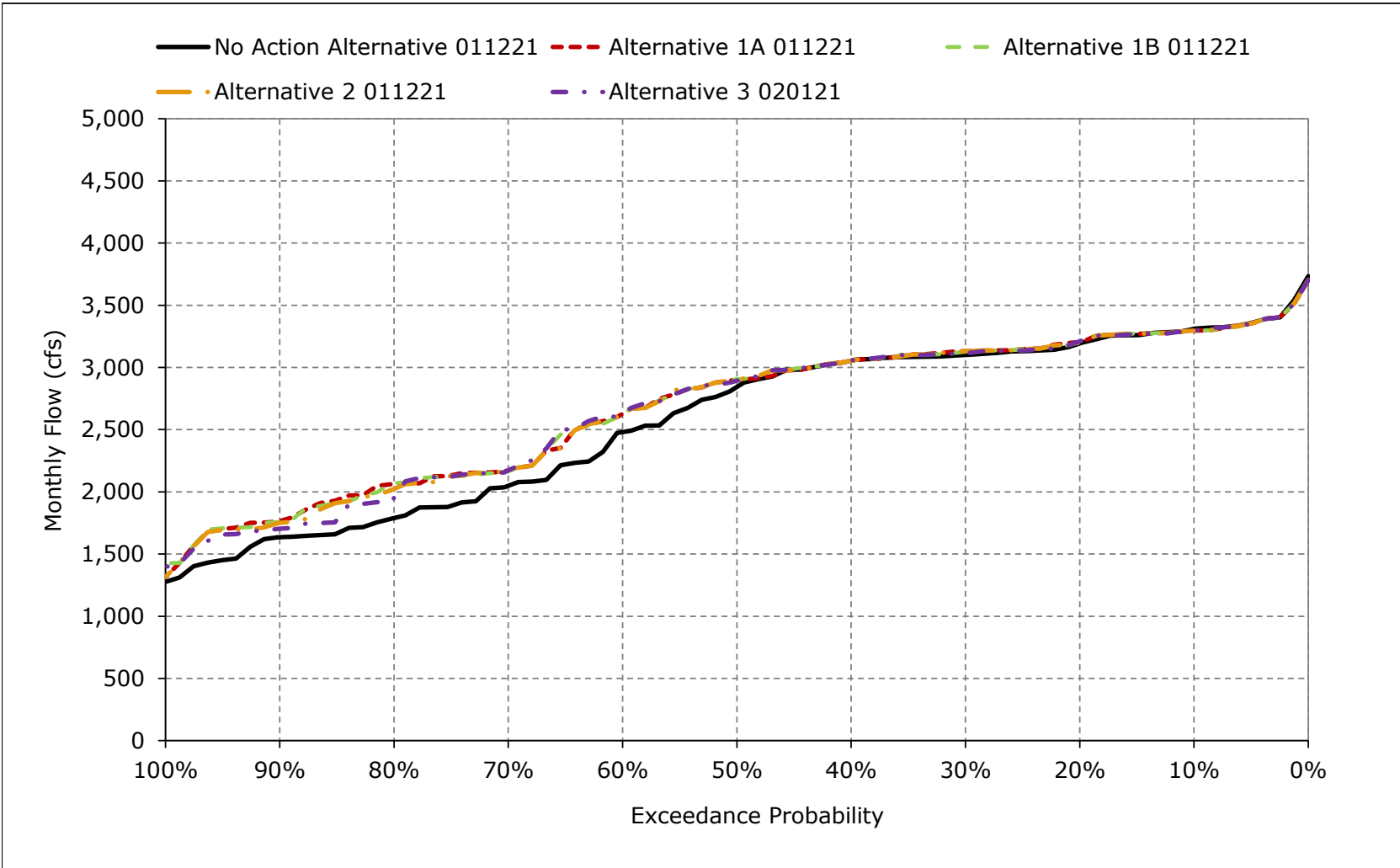
**Figure 5B3-2-15. DCC Flow, June**



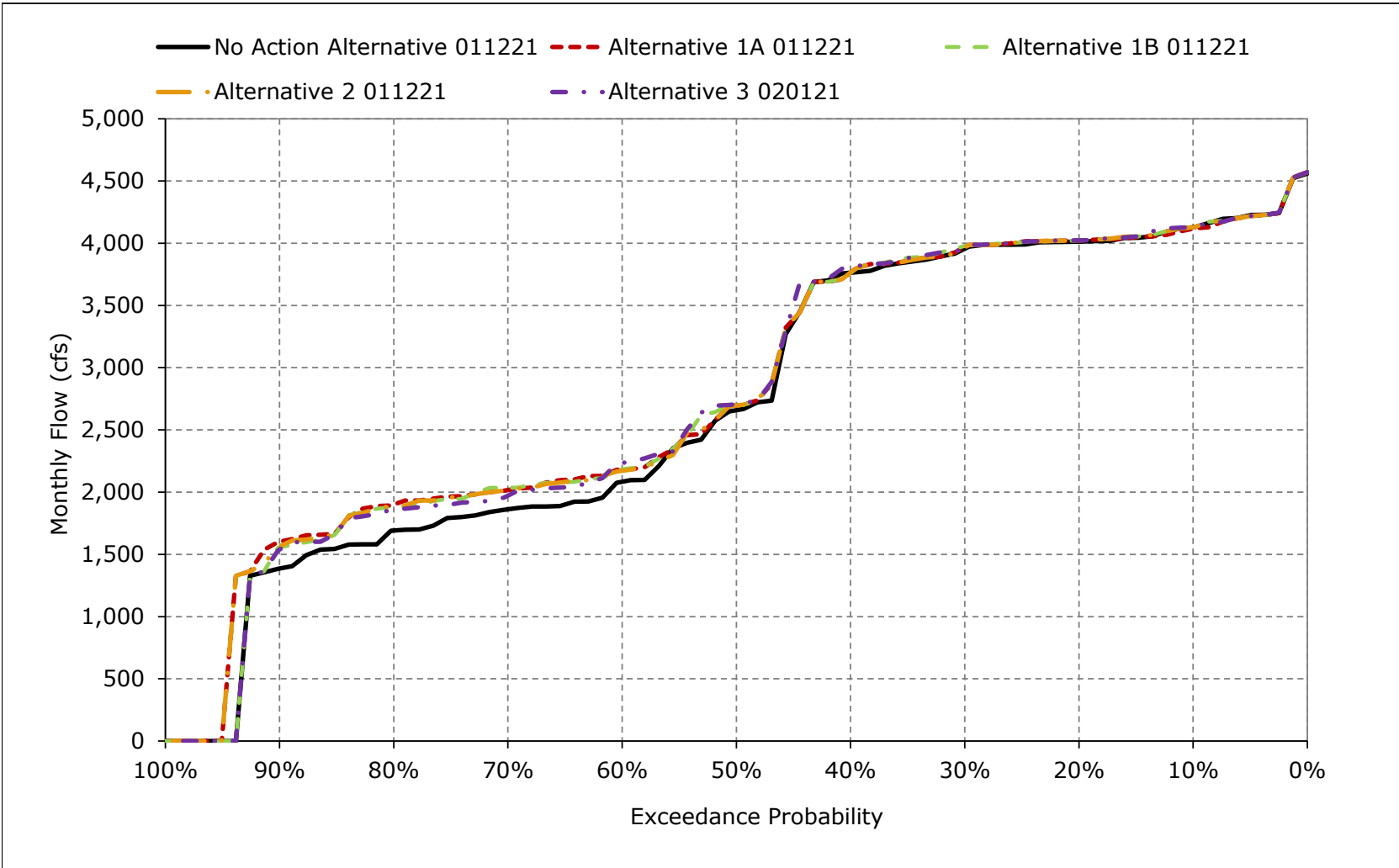
**Figure 5B3-2-16. DCC Flow, July**



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



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



**Table 5B3-3-1a. Yolo Bypass Flow, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	63	712	15,514	34,446	48,177	24,268	6,840	784	68	48	183	140
20%	61	158	4,823	15,924	20,367	9,332	3,162	78	68	48	55	60
30%	58	60	1,604	6,573	12,261	4,573	1,070	74	68	48	55	59
40%	53	27	550	3,070	8,634	2,772	331	71	68	48	55	59
50%	45	11	220	854	3,577	1,481	139	68	67	48	55	59
60%	40	8	128	487	1,380	592	113	65	67	48	55	59
70%	29	5	55	209	502	201	92	63	66	48	55	58
80%	15	1	22	69	160	78	80	59	64	48	55	55
90%	4	0	0	23	44	37	58	53	62	48	54	52
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	104	467	4,363	11,141	15,097	8,739	2,735	302	100	48	98	80
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	86	596	5,365	29,169	35,753	21,857	7,148	688	172	48	139	79
Above Normal (15%)	37	956	2,211	9,403	16,160	9,300	1,999	308	66	48	87	65
Below Normal (17%)	327	422	4,697	1,701	4,934	1,040	541	67	66	48	114	113
Dry (22%)	42	287	6,742	757	2,122	996	308	77	67	48	62	65
Critical (15%)	41	22	385	406	599	351	107	68	64	48	54	78

**Table 5B3-3-1b. Yolo Bypass Flow, Alternative 1A 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	442	715	15,595	32,704	46,176	24,143	6,540	773	68	48	449	463
20%	402	157	4,848	15,073	19,873	9,331	3,163	78	68	48	445	416
30%	390	55	1,584	6,393	11,369	4,296	1,074	74	68	48	445	403
40%	257	29	543	3,001	8,337	2,504	331	71	68	48	445	403
50%	64	13	214	830	3,422	1,349	139	68	67	48	437	381
60%	61	9	134	469	1,298	528	113	65	67	48	390	291
70%	53	6	58	204	497	202	92	63	66	48	152	141
80%	40	1	20	68	156	63	80	59	64	48	55	59
90%	16	0	3	24	43	37	58	53	62	48	55	59
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	252	452	4,317	10,764	14,624	8,429	2,633	276	99	48	325	297
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	316	587	5,385	28,362	34,865	21,307	6,910	611	171	48	443	395
Above Normal (15%)	259	865	2,212	8,753	15,476	8,629	1,863	304	66	48	368	374
Below Normal (17%)	412	428	4,497	1,611	4,567	950	507	67	66	48	309	250
Dry (22%)	152	286	6,660	713	2,005	906	308	77	67	48	251	252
Critical (15%)	72	22	383	398	577	336	107	68	64	48	157	132

**Table 5B3-3-1c. Yolo Bypass Flow, Alternative 1A 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	379	3	82	-1,742	-2,001	-125	-300	-11	0	0	266	323
20%	340	-1	25	-851	-494	-1	1	0	0	0	390	356
30%	333	-5	-20	-180	-891	-277	4	0	0	0	390	344
40%	204	2	-7	-70	-296	-268	0	0	0	0	390	344
50%	19	2	-7	-24	-155	-132	0	0	0	0	382	321
60%	21	0	6	-19	-82	-63	0	0	0	0	335	232
70%	23	1	3	-5	-5	0	0	0	0	0	97	83
80%	26	0	-1	-1	-5	-16	0	0	0	0	0	4
90%	11	0	3	2	-1	0	0	0	0	0	1	7
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	149	-16	-46	-377	-473	-310	-101	-25	0	0	227	218
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	230	-9	20	-807	-888	-550	-238	-77	-1	0	304	316
Above Normal (15%)	222	-91	1	-650	-683	-671	-135	-5	0	0	281	309
Below Normal (17%)	85	5	-200	-90	-367	-90	-34	0	0	0	195	137
Dry (22%)	110	-2	-82	-44	-117	-90	0	0	0	0	189	187
Critical (15%)	31	0	-2	-8	-22	-15	0	0	0	0	103	54

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B3-3-2a. Yolo Bypass Flow, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	63	712	15,514	34,446	48,177	24,268	6,840	784	68	48	183	140
20%	61	158	4,823	15,924	20,367	9,332	3,162	78	68	48	55	60
30%	58	60	1,604	6,573	12,261	4,573	1,070	74	68	48	55	59
40%	53	27	550	3,070	8,634	2,772	331	71	68	48	55	59
50%	45	11	220	854	3,577	1,481	139	68	67	48	55	59
60%	40	8	128	487	1,380	592	113	65	67	48	55	59
70%	29	5	55	209	502	201	92	63	66	48	55	58
80%	15	1	22	69	160	78	80	59	64	48	55	55
90%	4	0	0	23	44	37	58	53	62	48	54	52
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	104	467	4,363	11,141	15,097	8,739	2,735	302	100	48	98	80
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	86	596	5,365	29,169	35,753	21,857	7,148	688	172	48	139	79
Above Normal (15%)	37	956	2,211	9,403	16,160	9,300	1,999	308	66	48	87	65
Below Normal (17%)	327	422	4,697	1,701	4,934	1,040	541	67	66	48	114	113
Dry (22%)	42	287	6,742	757	2,122	996	308	77	67	48	62	65
Critical (15%)	41	22	385	406	599	351	107	68	64	48	54	78

**Table 5B3-3-2b. Yolo Bypass Flow, Alternative 1B 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	430	748	15,581	32,702	45,697	24,147	6,540	770	68	48	449	463
20%	390	157	5,008	14,858	19,791	9,272	3,163	78	68	48	445	428
30%	390	64	1,581	6,394	11,355	4,296	1,074	74	68	48	445	403
40%	152	33	543	3,003	8,314	2,455	331	71	68	48	445	403
50%	63	16	213	830	3,423	1,344	139	68	67	48	424	325
60%	54	9	133	469	1,322	527	113	65	67	48	390	189
70%	45	6	58	200	497	202	92	63	66	48	216	81
80%	36	1	21	68	163	63	80	59	64	48	55	59
90%	11	0	3	24	43	37	58	53	62	48	55	58
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	234	460	4,301	10,746	14,571	8,424	2,612	276	99	48	324	276
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	314	587	5,416	28,307	34,691	21,293	6,841	610	171	48	442	387
Above Normal (15%)	202	890	2,201	8,755	15,423	8,632	1,864	304	66	48	364	311
Below Normal (17%)	411	440	4,509	1,613	4,609	951	507	67	66	48	309	231
Dry (22%)	104	299	6,547	711	2,018	902	308	77	67	48	267	216
Critical (15%)	83	22	373	398	577	336	107	68	64	48	135	145

**Table 5B3-3-2c. Yolo Bypass Flow, Alternative 1B 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	367	36	67	-1,744	-2,481	-120	-300	-14	0	0	266	323
20%	329	-1	186	-1,066	-576	-60	1	0	0	0	390	368
30%	333	4	-23	-180	-906	-278	4	0	0	0	390	344
40%	99	6	-7	-68	-320	-317	0	0	0	0	390	344
50%	18	5	-7	-23	-154	-138	0	0	0	0	369	266
60%	13	0	5	-19	-58	-65	0	0	0	0	335	130
70%	15	1	3	-9	-5	0	0	0	0	0	161	23
80%	21	1	-1	-1	2	-16	0	0	0	0	0	4
90%	7	0	3	2	-1	0	0	0	0	0	1	6
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	130	-7	-62	-394	-526	-314	-123	-26	0	0	227	197
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	228	-9	51	-863	-1,063	-564	-307	-78	-1	0	303	308
Above Normal (15%)	165	-66	-10	-648	-737	-668	-135	-5	0	0	277	246
Below Normal (17%)	84	17	-188	-88	-325	-89	-34	0	0	0	195	118
Dry (22%)	62	12	-195	-45	-104	-94	0	0	0	0	205	152
Critical (15%)	42	0	-12	-8	-22	-15	0	0	0	0	80	67

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.



**Table 5B3-3-3a. Yolo Bypass Flow, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	63	712	15,514	34,446	48,177	24,268	6,840	784	68	48	183	140
20%	61	158	4,823	15,924	20,367	9,332	3,162	78	68	48	55	60
30%	58	60	1,604	6,573	12,261	4,573	1,070	74	68	48	55	59
40%	53	27	550	3,070	8,634	2,772	331	71	68	48	55	59
50%	45	11	220	854	3,577	1,481	139	68	67	48	55	59
60%	40	8	128	487	1,380	592	113	65	67	48	55	59
70%	29	5	55	209	502	201	92	63	66	48	55	58
80%	15	1	22	69	160	78	80	59	64	48	55	55
90%	4	0	0	23	44	37	58	53	62	48	54	52
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	104	467	4,363	11,141	15,097	8,739	2,735	302	100	48	98	80
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	86	596	5,365	29,169	35,753	21,857	7,148	688	172	48	139	79
Above Normal (15%)	37	956	2,211	9,403	16,160	9,300	1,999	308	66	48	87	65
Below Normal (17%)	327	422	4,697	1,701	4,934	1,040	541	67	66	48	114	113
Dry (22%)	42	287	6,742	757	2,122	996	308	77	67	48	62	65
Critical (15%)	41	22	385	406	599	351	107	68	64	48	54	78

**Table 5B3-3-3b. Yolo Bypass Flow, Alternative 2 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	442	715	15,596	32,703	47,164	24,143	6,556	775	68	48	449	474
20%	400	157	4,859	15,075	19,899	9,329	3,163	78	68	48	445	434
30%	390	55	1,584	6,393	11,370	4,296	1,074	74	68	48	445	403
40%	281	29	543	3,001	8,363	2,506	331	71	68	48	445	403
50%	69	13	214	830	3,422	1,344	139	68	67	48	444	400
60%	61	9	134	469	1,309	529	113	65	67	48	390	312
70%	53	6	58	204	497	202	92	63	66	48	390	157
80%	42	0	20	68	156	63	80	59	64	48	55	59
90%	17	0	3	24	43	37	58	53	62	48	55	59
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	254	446	4,322	10,760	14,651	8,456	2,643	276	99	48	349	306
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	304	587	5,387	28,351	34,946	21,388	6,941	611	171	48	443	423
Above Normal (15%)	263	868	2,212	8,753	15,494	8,634	1,863	304	66	48	383	375
Below Normal (17%)	422	392	4,514	1,613	4,560	951	507	67	66	48	365	296
Dry (22%)	167	286	6,664	713	2,005	907	308	77	67	48	292	228
Critical (15%)	72	22	386	398	577	336	107	68	64	48	180	111

**Table 5B3-3-3c. Yolo Bypass Flow, Alternative 2 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	379	4	82	-1,743	-1,013	-125	-284	-9	0	0	266	334
20%	338	-1	37	-848	-468	-3	1	0	0	0	390	374
30%	333	-5	-20	-180	-891	-277	4	0	0	0	390	344
40%	228	2	-7	-70	-271	-266	0	0	0	0	390	344
50%	24	2	-6	-24	-155	-137	0	0	0	0	389	340
60%	21	0	6	-19	-71	-63	0	0	0	0	335	253
70%	23	1	3	-5	-5	0	0	0	0	0	335	98
80%	28	0	-1	-1	-5	-16	0	0	0	0	0	4
90%	13	0	3	2	-1	0	0	0	0	0	1	7
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	151	-21	-41	-380	-446	-283	-91	-25	0	0	251	227
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	219	-9	23	-818	-808	-469	-207	-77	-1	0	304	344
Above Normal (15%)	226	-88	1	-650	-665	-666	-135	-5	0	0	296	310
Below Normal (17%)	95	-31	-183	-88	-374	-89	-34	0	0	0	251	183
Dry (22%)	125	-1	-78	-44	-117	-89	0	0	0	0	230	164
Critical (15%)	31	0	0	-8	-22	-15	0	0	0	0	126	33

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B3-3-4a. Yolo Bypass Flow, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	63	712	15,514	34,446	48,177	24,268	6,840	784	68	48	183	140
20%	61	158	4,823	15,924	20,367	9,332	3,162	78	68	48	55	60
30%	58	60	1,604	6,573	12,261	4,573	1,070	74	68	48	55	59
40%	53	27	550	3,070	8,634	2,772	331	71	68	48	55	59
50%	45	11	220	854	3,577	1,481	139	68	67	48	55	59
60%	40	8	128	487	1,380	592	113	65	67	48	55	59
70%	29	5	55	209	502	201	92	63	66	48	55	58
80%	15	1	22	69	160	78	80	59	64	48	55	55
90%	4	0	0	23	44	37	58	53	62	48	54	52
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	104	467	4,363	11,141	15,097	8,739	2,735	302	100	48	98	80
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	86	596	5,365	29,169	35,753	21,857	7,148	688	172	48	139	79
Above Normal (15%)	37	956	2,211	9,403	16,160	9,300	1,999	308	66	48	87	65
Below Normal (17%)	327	422	4,697	1,701	4,934	1,040	541	67	66	48	114	113
Dry (22%)	42	287	6,742	757	2,122	996	308	77	67	48	62	65
Critical (15%)	41	22	385	406	599	351	107	68	64	48	54	78

**Table 5B3-3-4b. Yolo Bypass Flow, Alternative 3 020121, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	430	830	15,584	32,747	45,847	22,551	6,540	770	68	48	450	463
20%	390	157	5,348	14,943	21,190	9,216	3,163	78	68	48	445	410
30%	273	56	1,610	6,394	11,098	4,296	1,074	74	68	48	445	403
40%	64	29	672	3,003	8,308	2,511	331	71	68	48	445	374
50%	61	13	213	830	3,423	1,344	139	68	67	48	426	298
60%	53	9	133	469	1,322	526	113	65	67	48	390	125
70%	44	6	53	200	497	202	92	63	66	48	55	59
80%	36	1	22	68	156	65	80	59	64	48	55	59
90%	11	0	3	24	43	37	58	53	62	48	55	57
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	215	461	4,370	10,763	14,629	8,366	2,558	273	99	48	308	265
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	280	587	5,413	28,340	34,830	21,132	6,673	601	171	48	443	379
Above Normal (15%)	179	936	2,222	8,796	15,615	8,571	1,864	304	66	48	344	348
Below Normal (17%)	411	407	4,547	1,615	4,526	950	507	67	66	48	309	243
Dry (22%)	89	296	6,827	712	2,018	912	308	77	67	48	236	163
Critical (15%)	72	22	370	398	577	337	107	68	64	48	87	111

**Table 5B3-3-4c. Yolo Bypass Flow, Alternative 3 020121 minus No Action Alternative 011221, Monthly Flow (cfs)**

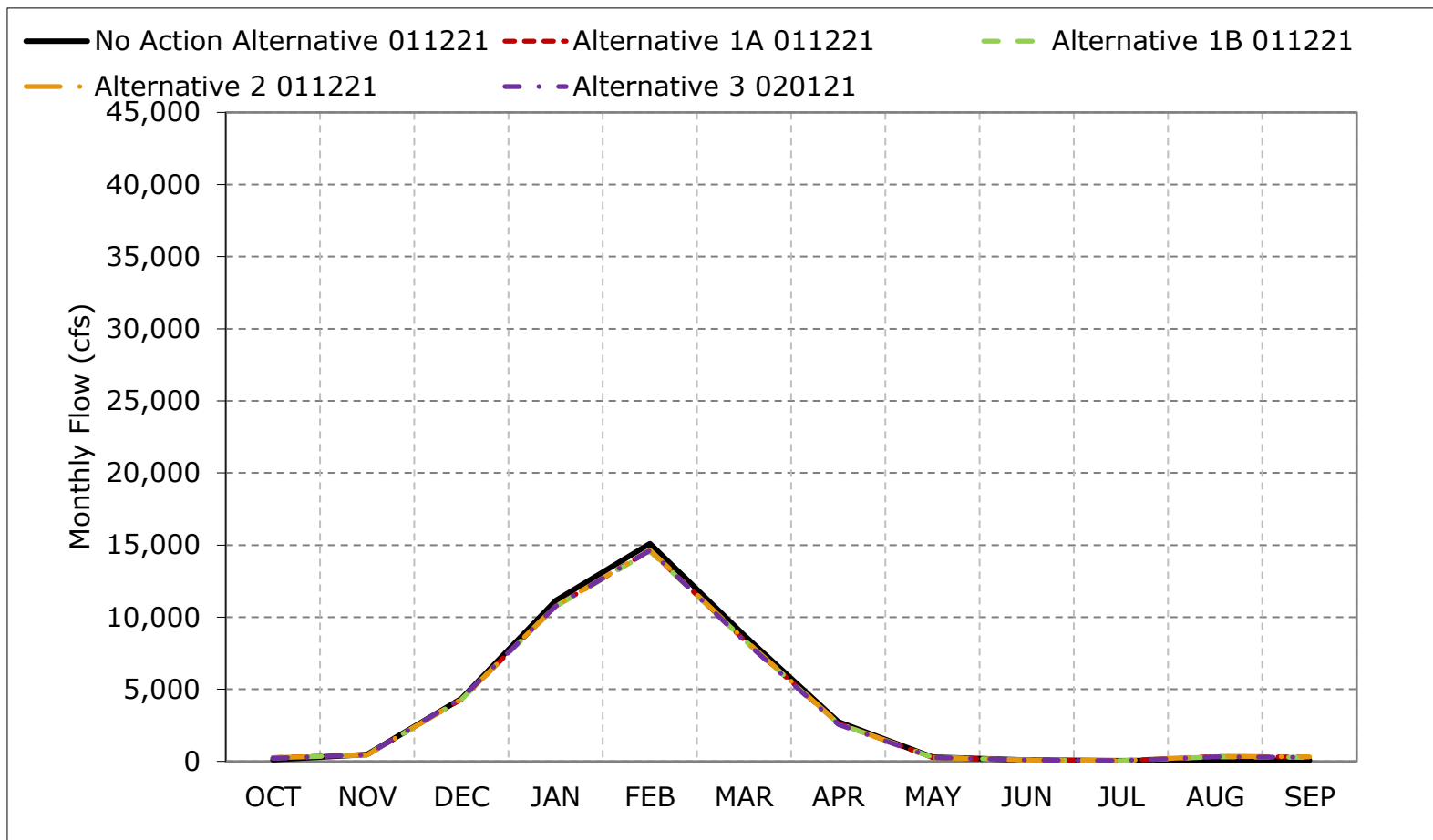
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	367	119	70	-1,699	-2,330	-1,717	-300	-14	0	0	266	323
20%	329	-1	525	-981	823	-116	1	0	0	0	390	350
30%	216	-5	6	-179	-1,163	-278	4	0	0	0	390	344
40%	11	2	122	-67	-326	-261	0	0	0	0	390	314
50%	16	2	-7	-23	-154	-138	0	0	0	0	371	239
60%	13	0	5	-19	-58	-66	0	0	0	0	335	66
70%	15	1	-1	-9	-5	0	0	0	0	0	0	1
80%	21	1	0	-1	-5	-14	0	0	0	0	0	4
90%	7	0	3	2	-1	0	0	0	0	0	1	5
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	111	-7	8	-378	-468	-372	-176	-28	0	0	210	185
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	194	-9	48	-829	-923	-725	-475	-87	-1	0	304	299
Above Normal (15%)	142	-20	11	-608	-545	-729	-135	-5	0	0	258	283
Below Normal (17%)	84	-15	-150	-86	-408	-90	-34	0	0	0	195	130
Dry (22%)	47	8	85	-45	-105	-84	0	0	0	0	174	98
Critical (15%)	31	0	-15	-8	-22	-14	0	0	0	0	33	34

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

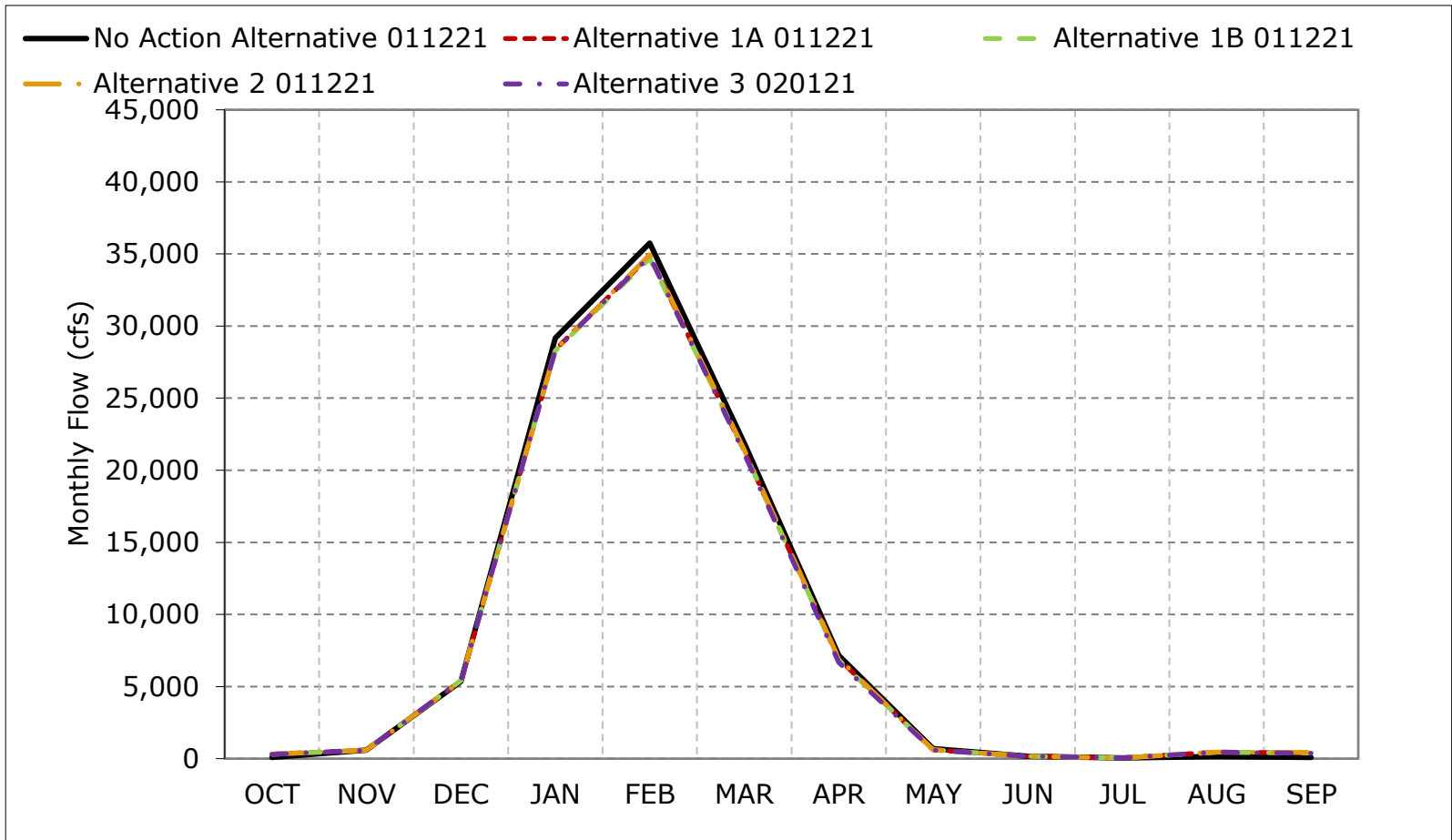
**Figure 5B3-3-1. Yolo Bypass Flow, Long-Term Average Flow**



\*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.

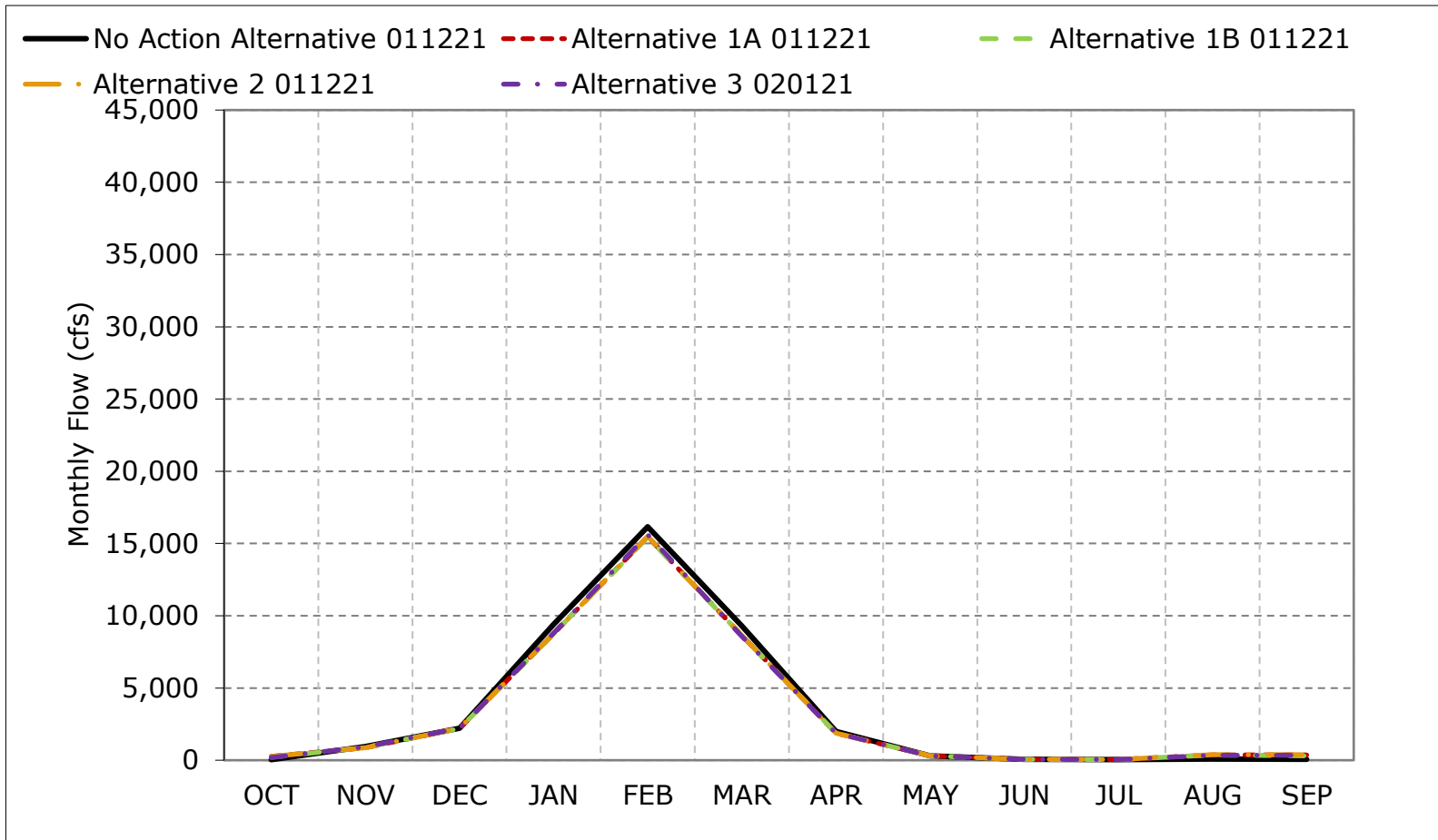
**Figure 5B3-3-2. Yolo Bypass Flow, Wet Year Average Flow**



\*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.

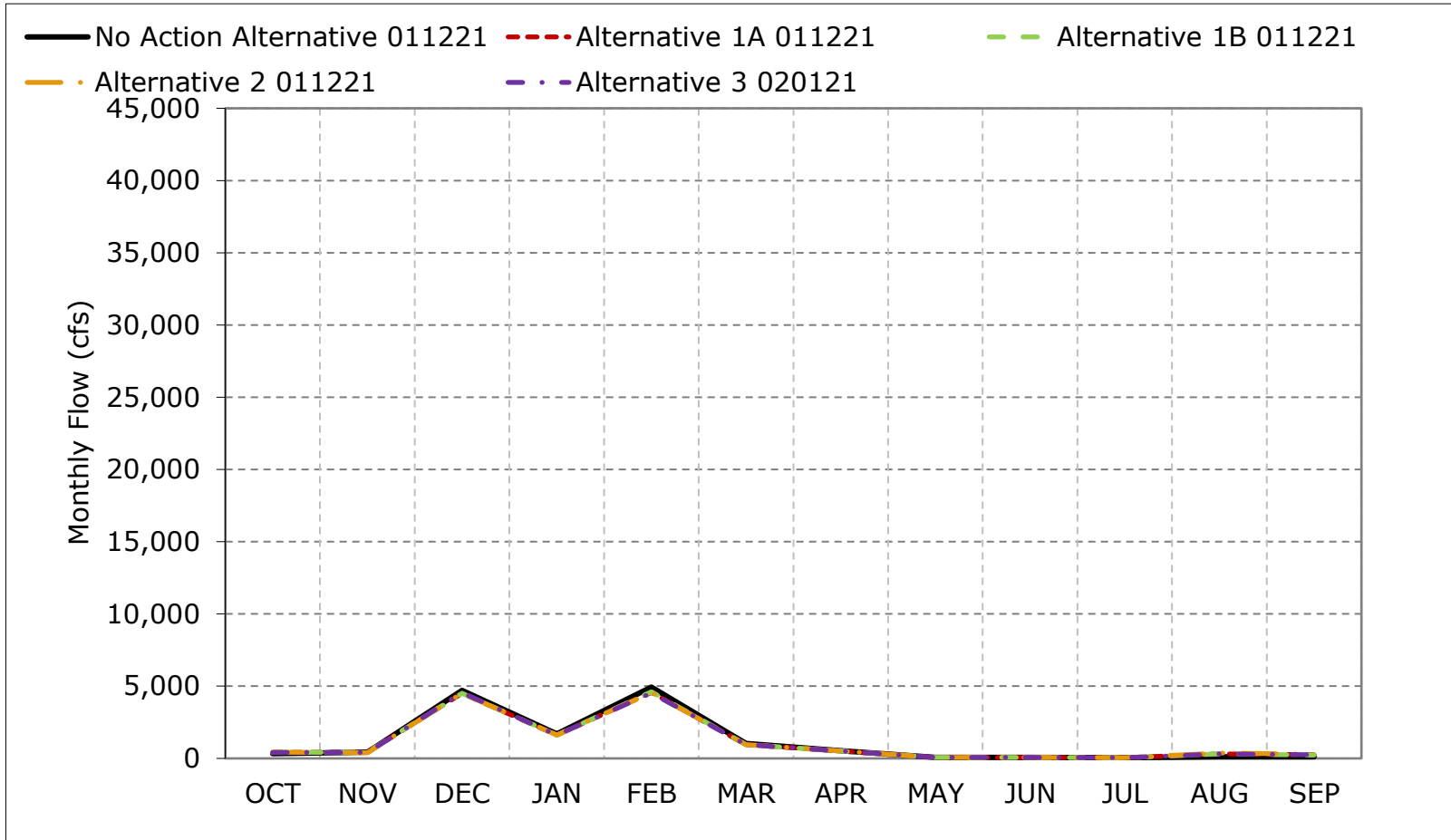
**Figure 5B3-3-3. Yolo Bypass Flow, Above Normal Year Average Flow**



\*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.

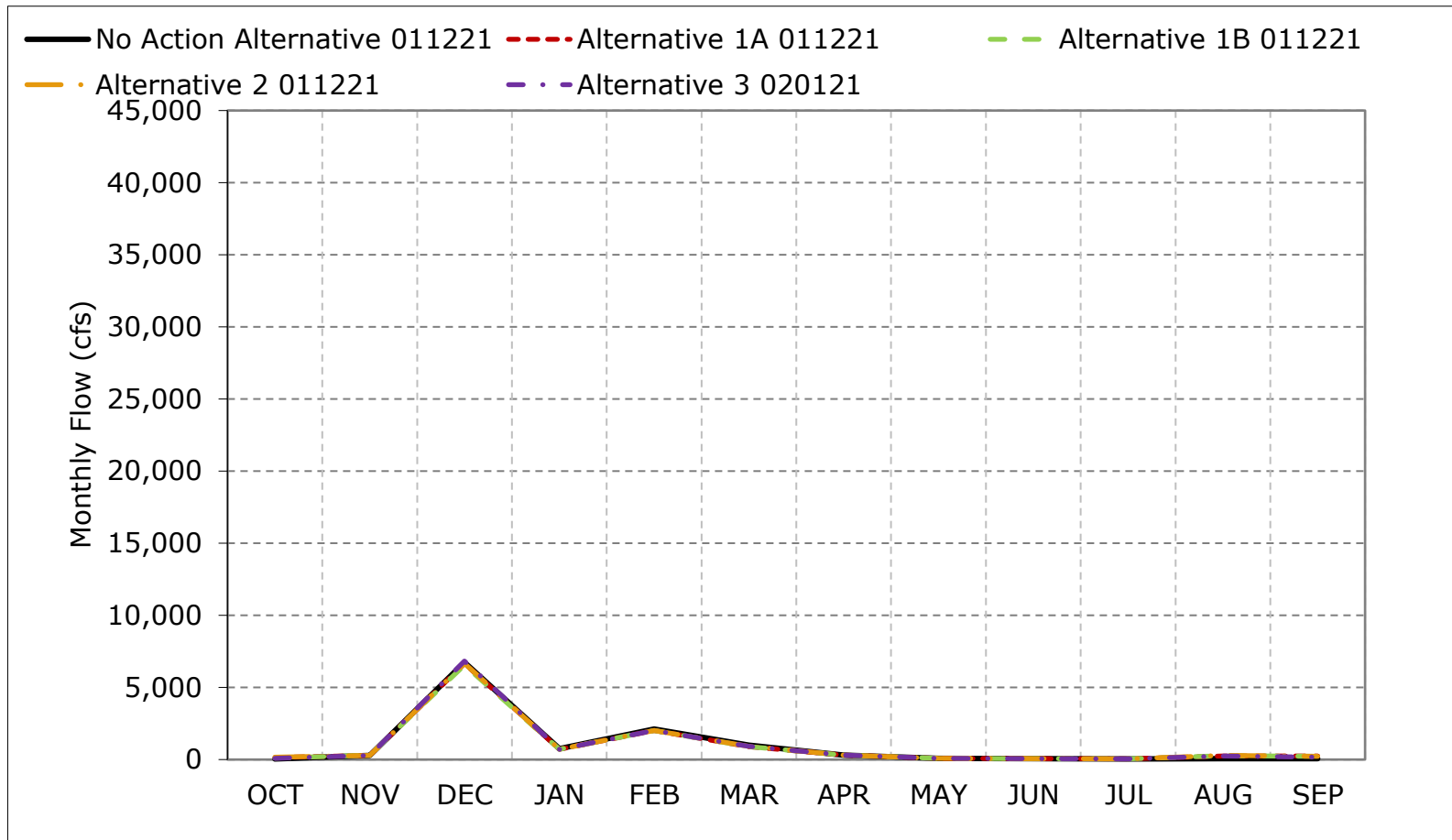
**Figure 5B3-3-4. Yolo Bypass Flow, Below Normal Year Average Flow**



\*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.

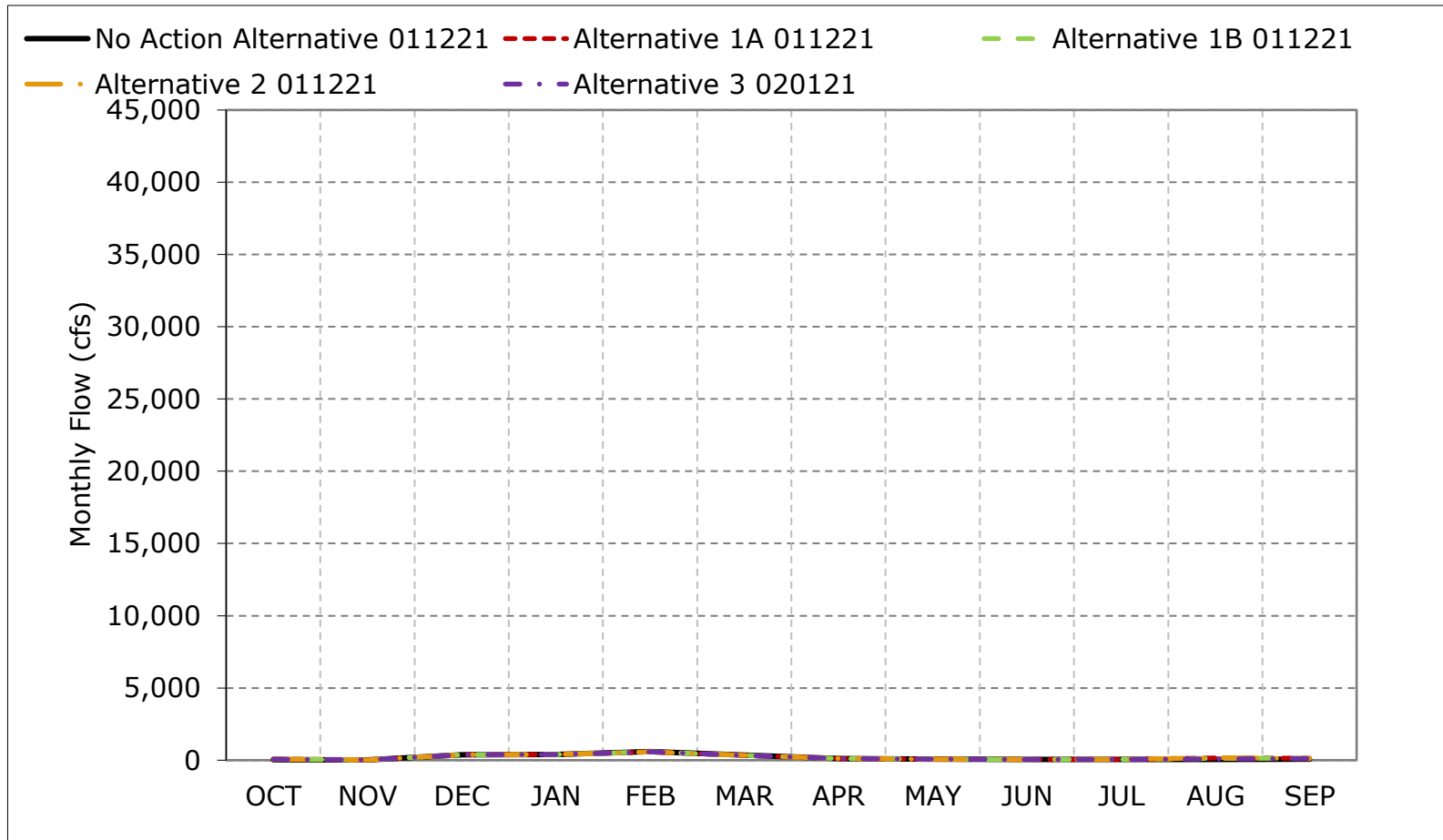
**Figure 5B3-3-5. Yolo Bypass Flow, Dry Year Average Flow**



\*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.

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

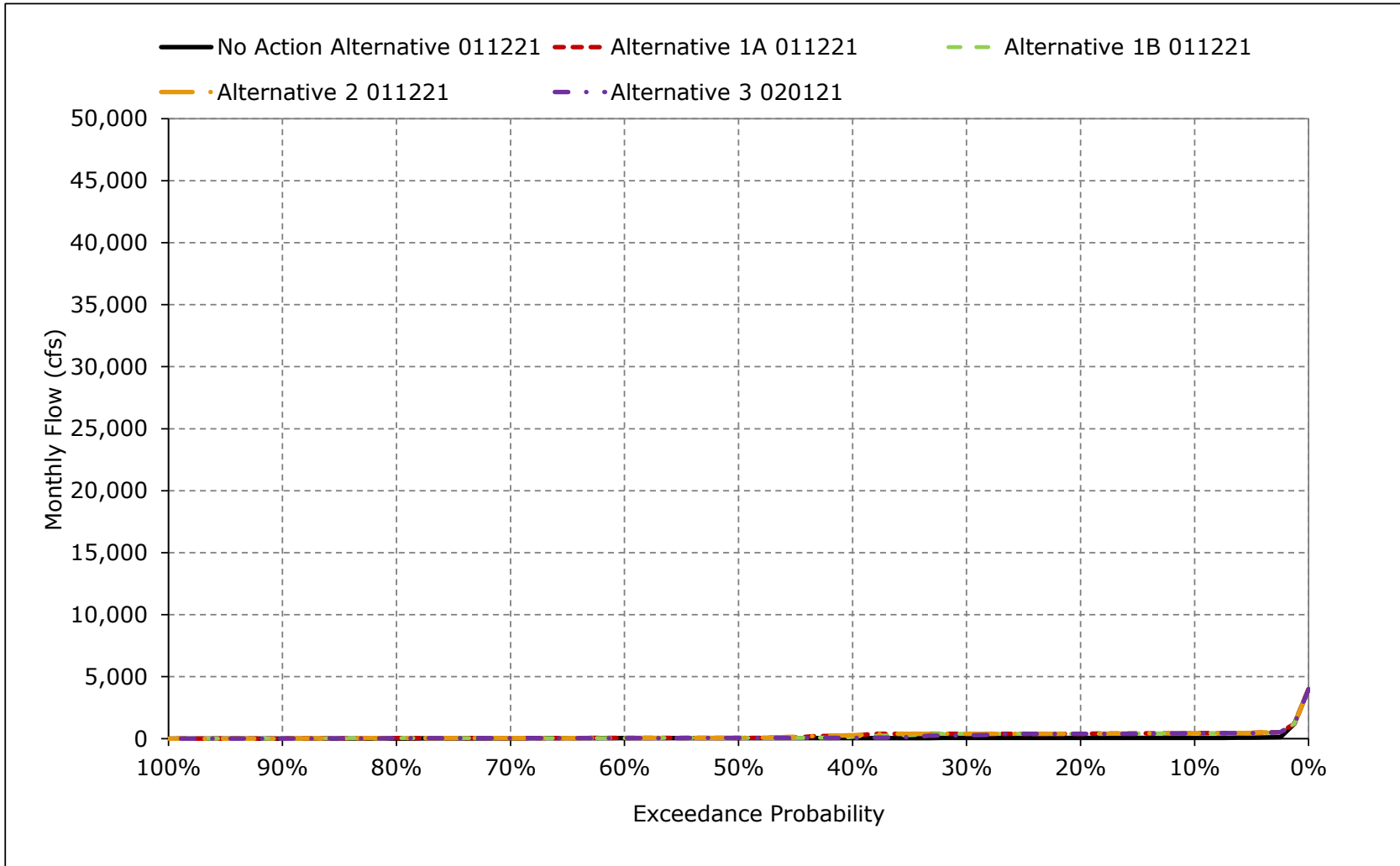


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

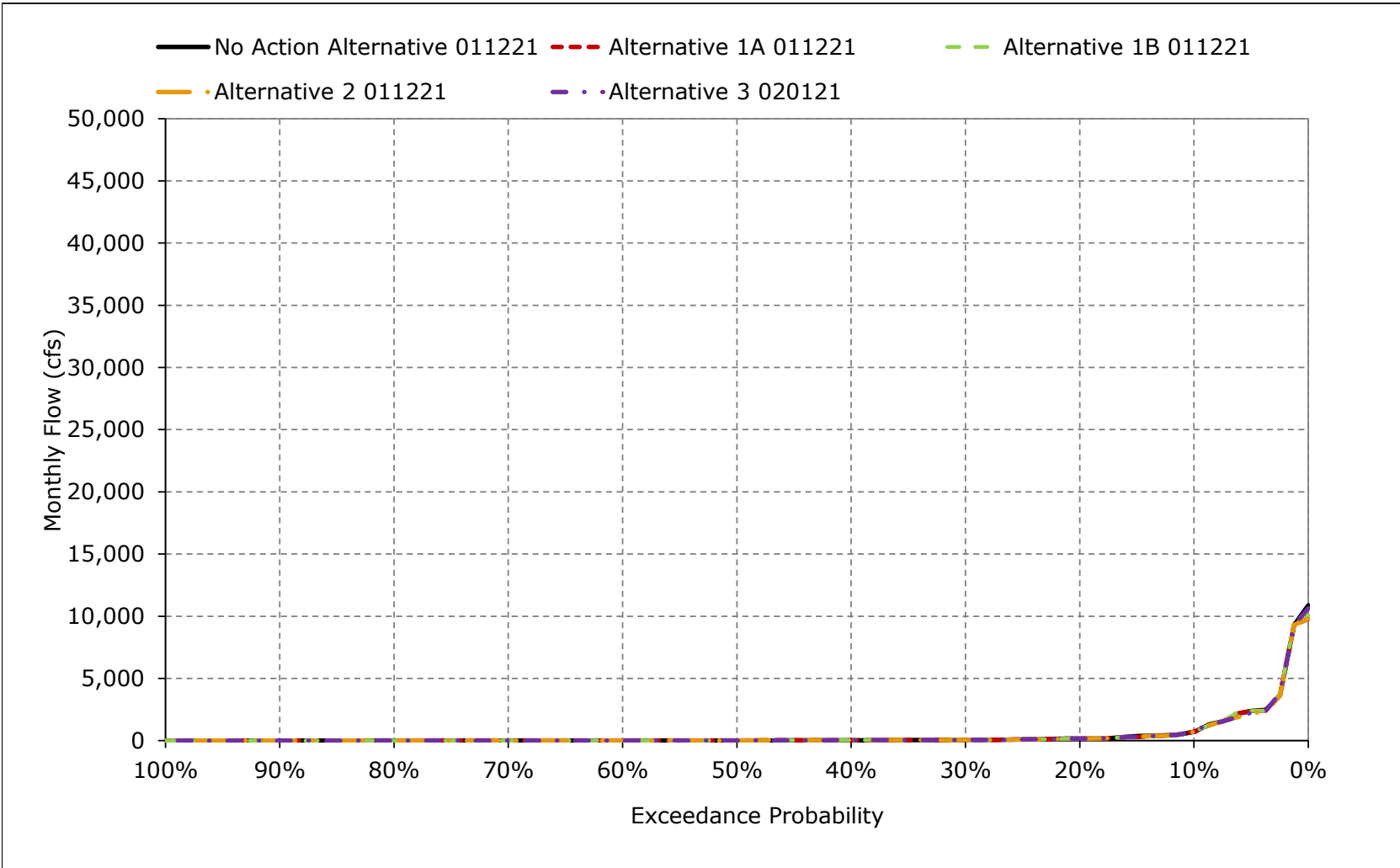
\*These results are displayed with calendar year - year type sorting.



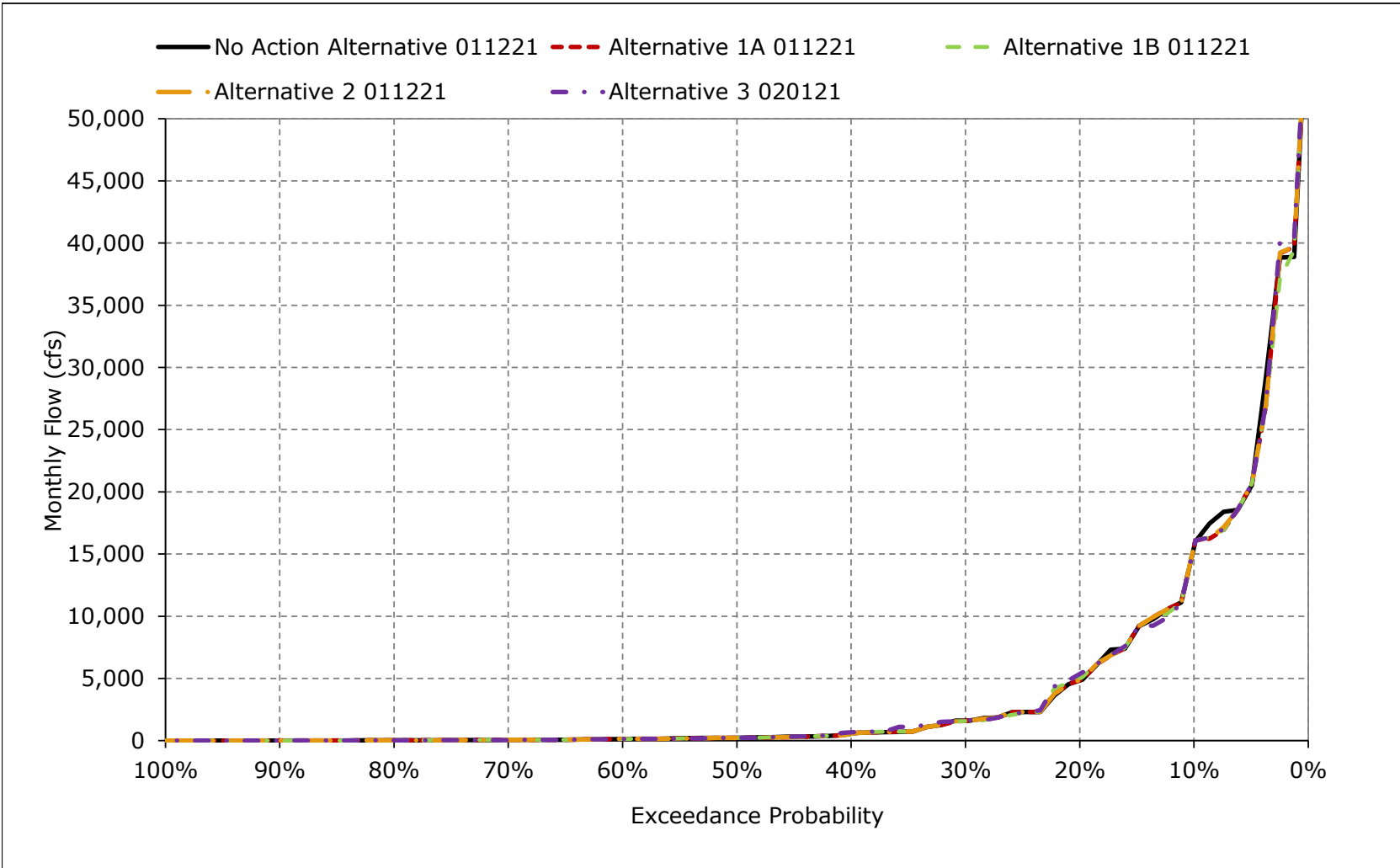
**Figure 5B3-3-7. Yolo Bypass Flow, October**



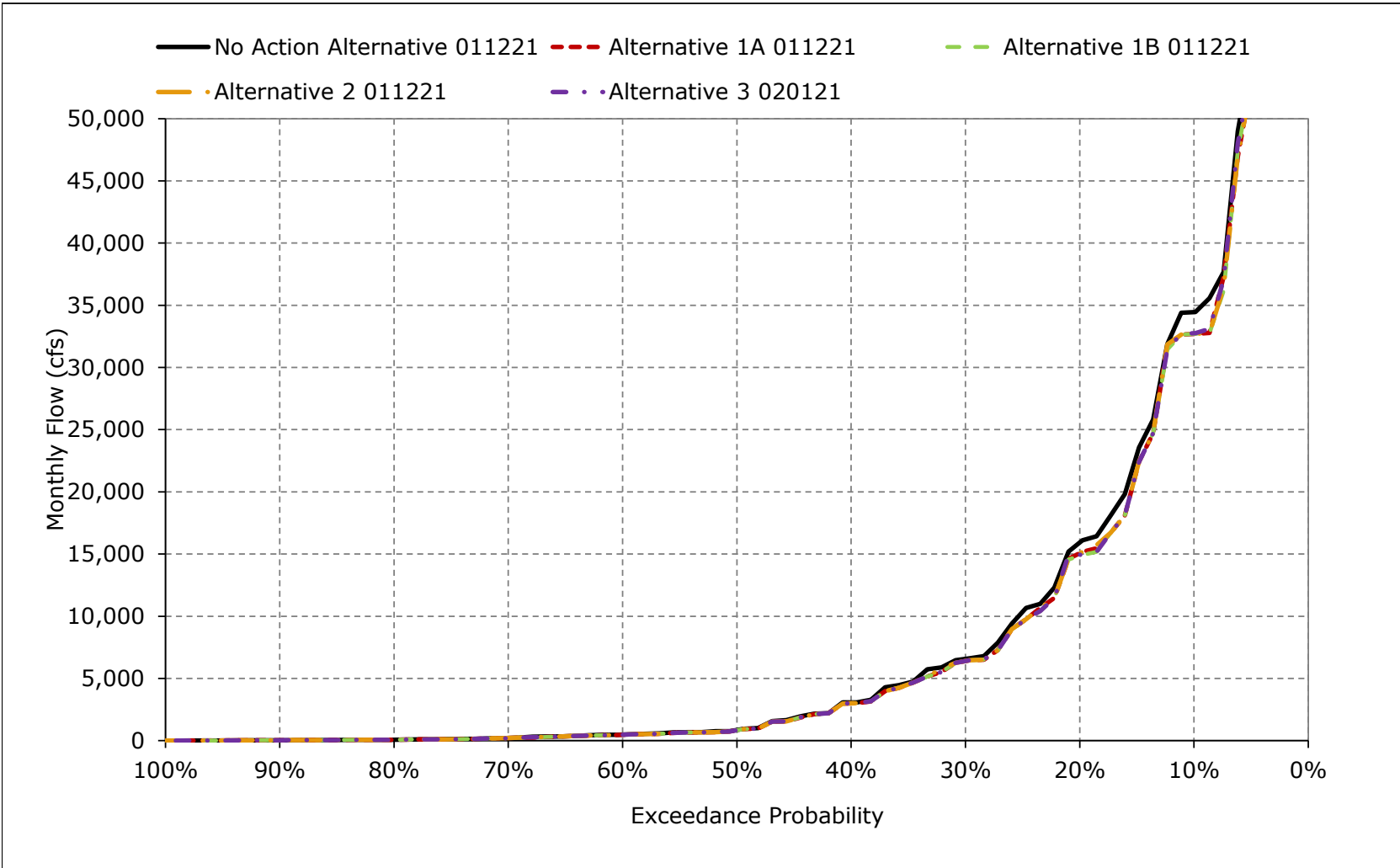
**Figure 5B3-3-8. Yolo Bypass Flow, November**



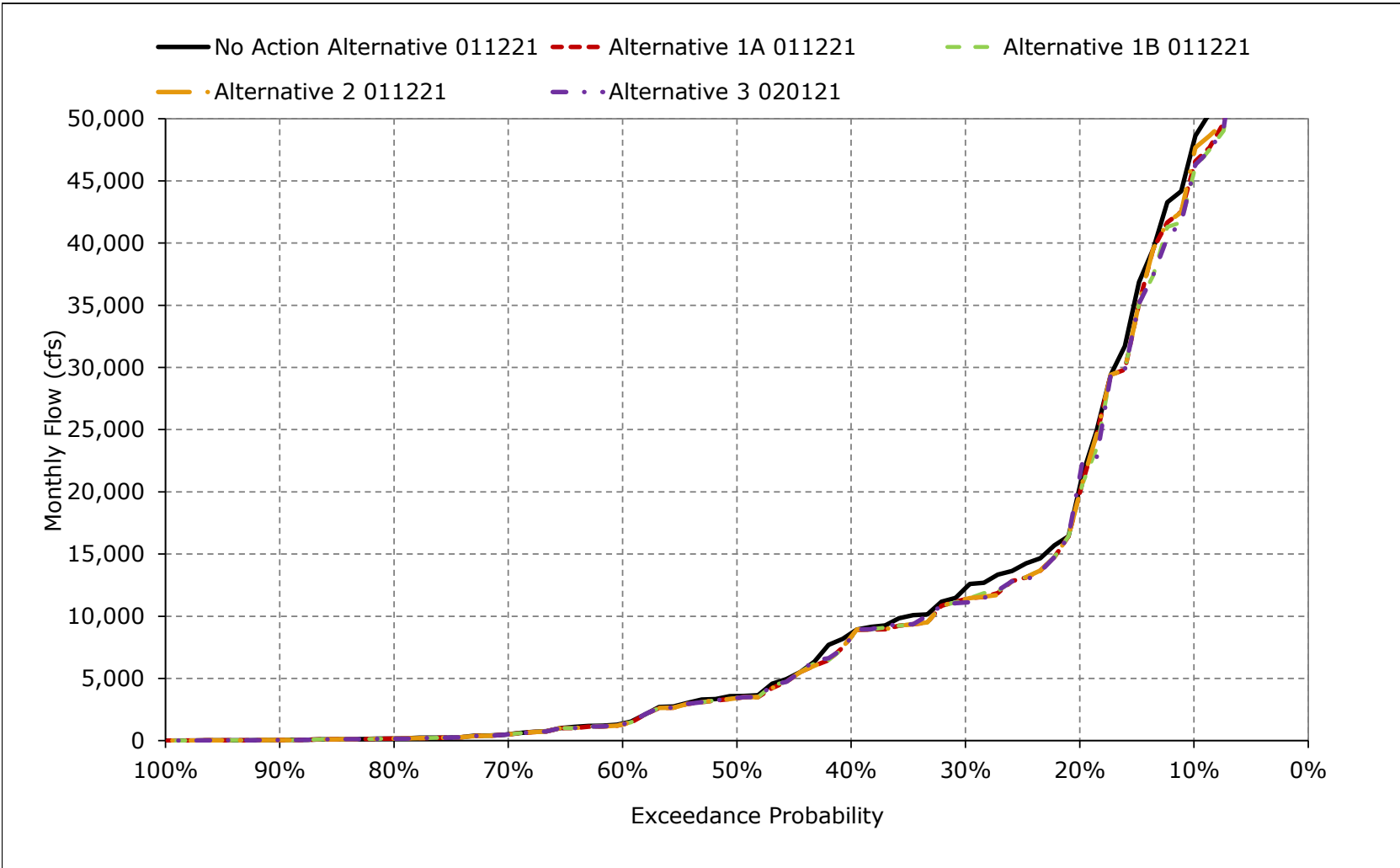
**Figure 5B3-3-9. Yolo Bypass Flow, December**



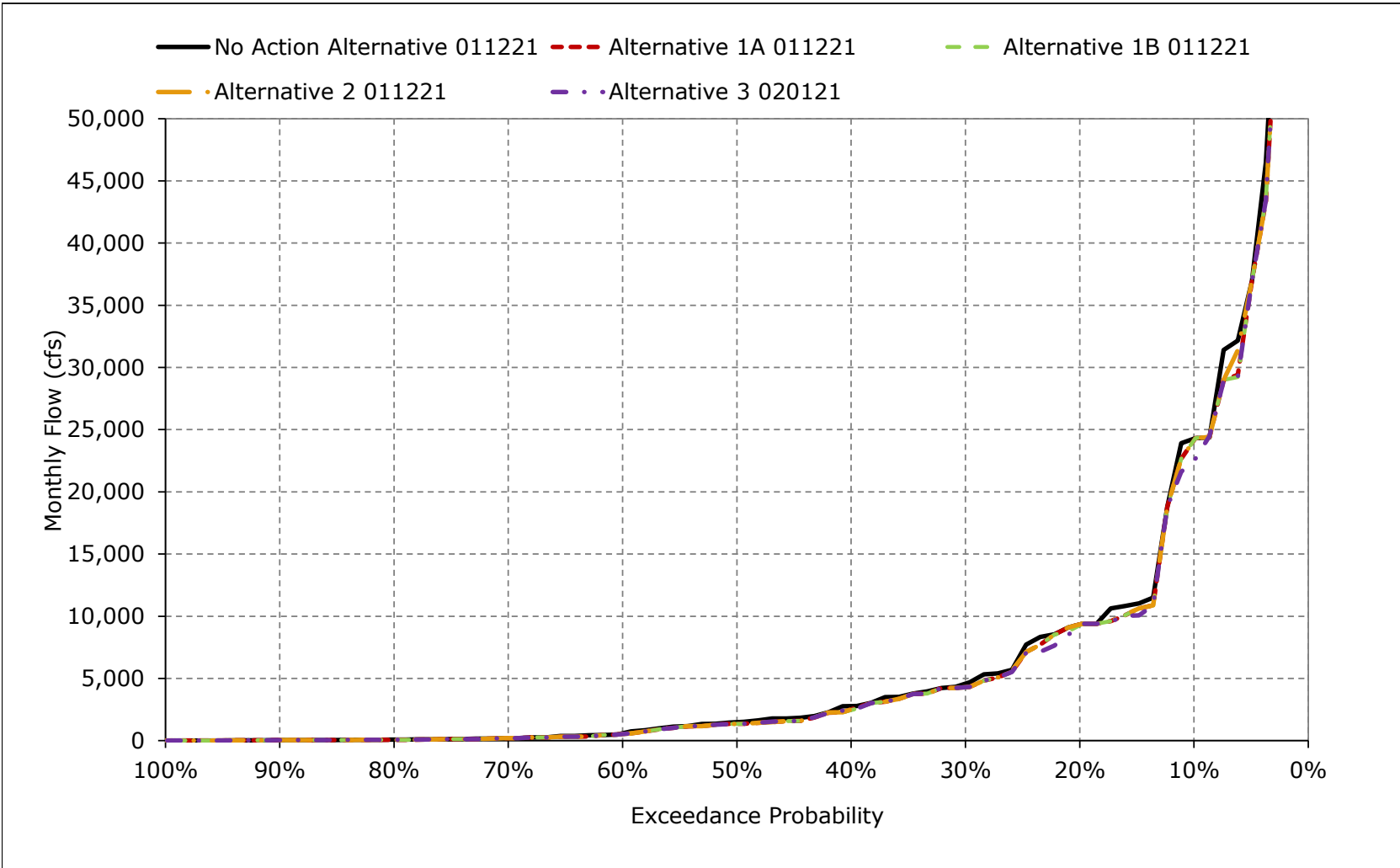
**Figure 5B3-3-10. Yolo Bypass Flow, January**



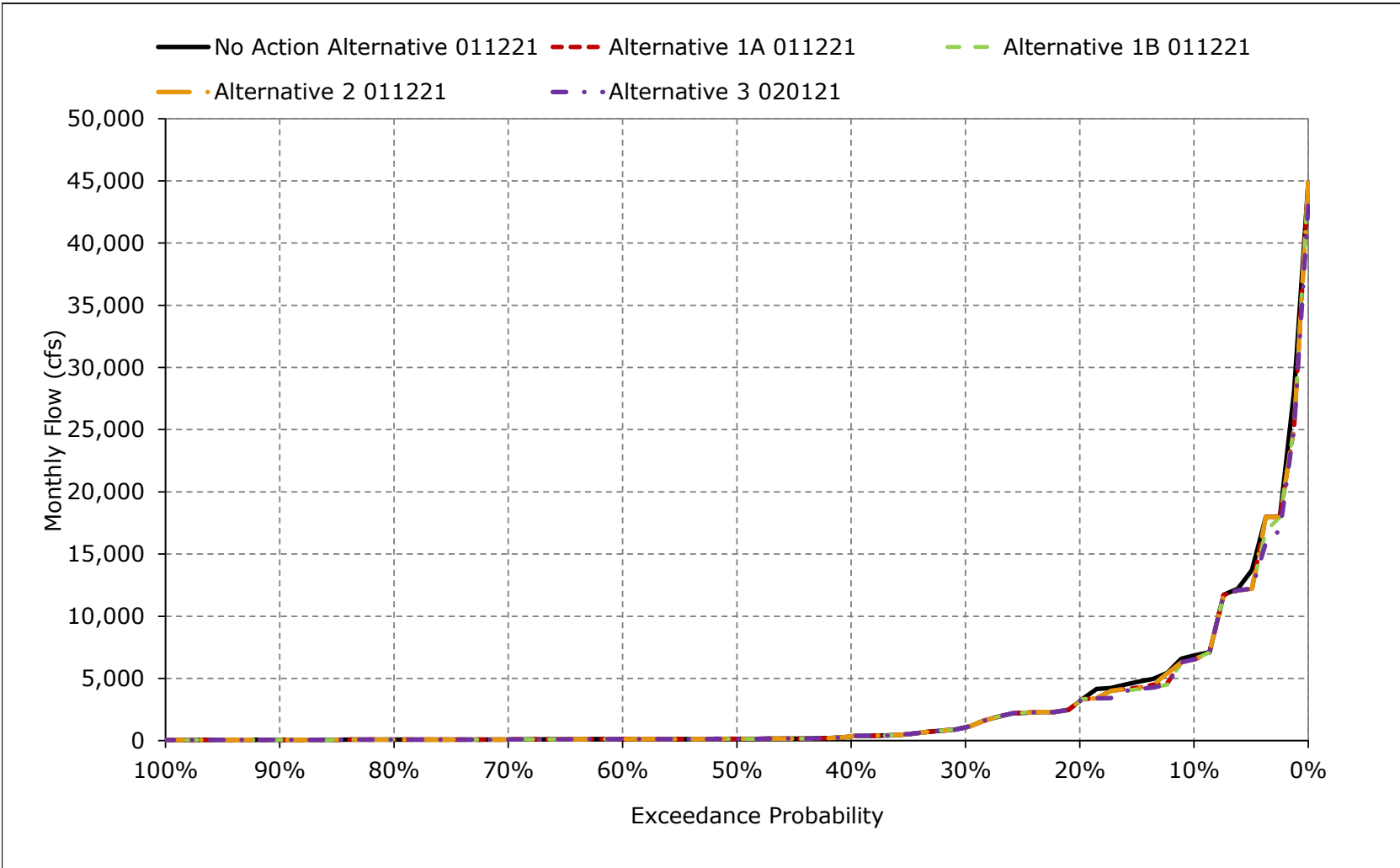
**Figure 5B3-3-11. Yolo Bypass Flow, February**



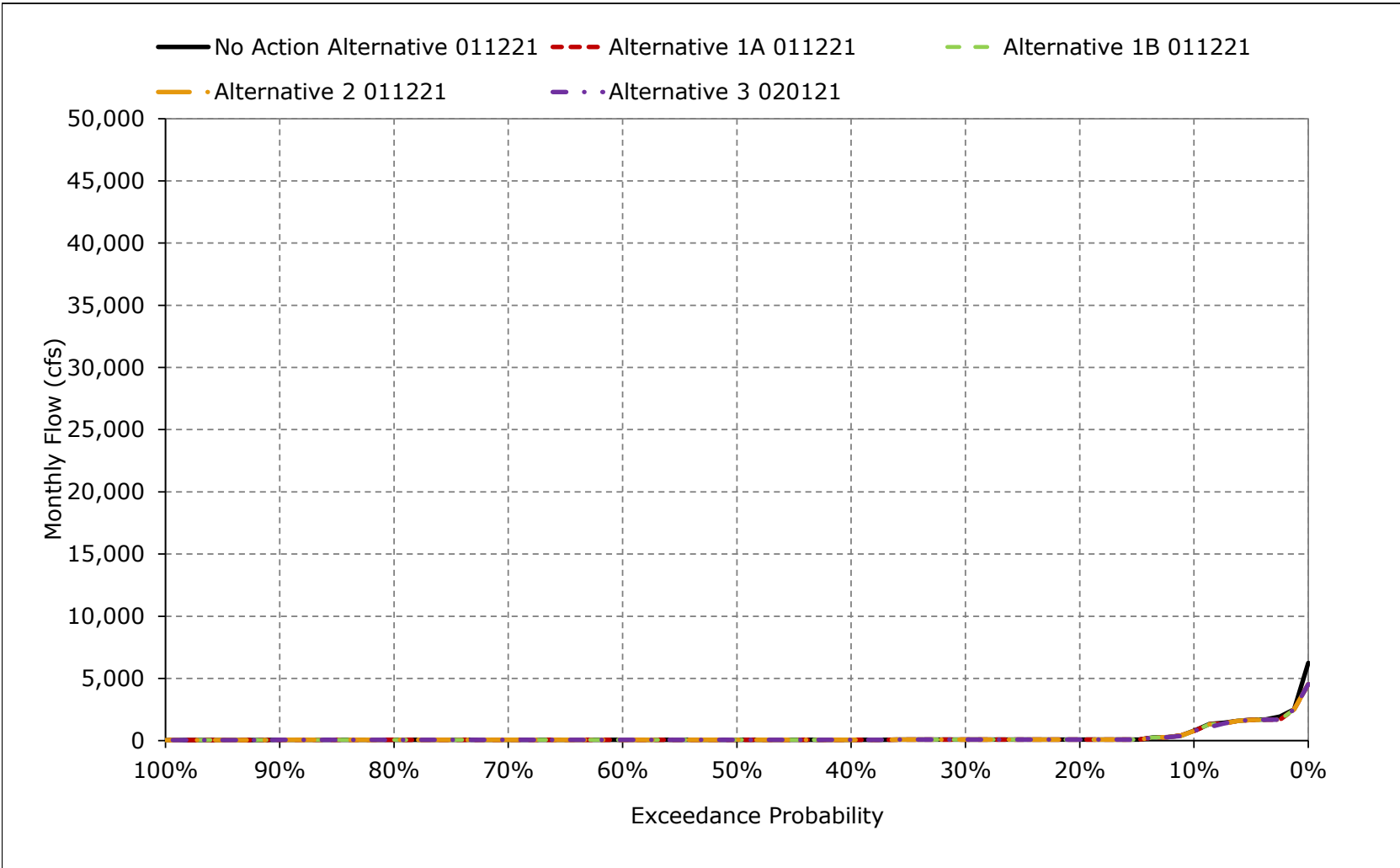
**Figure 5B3-3-12. Yolo Bypass Flow, March**



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

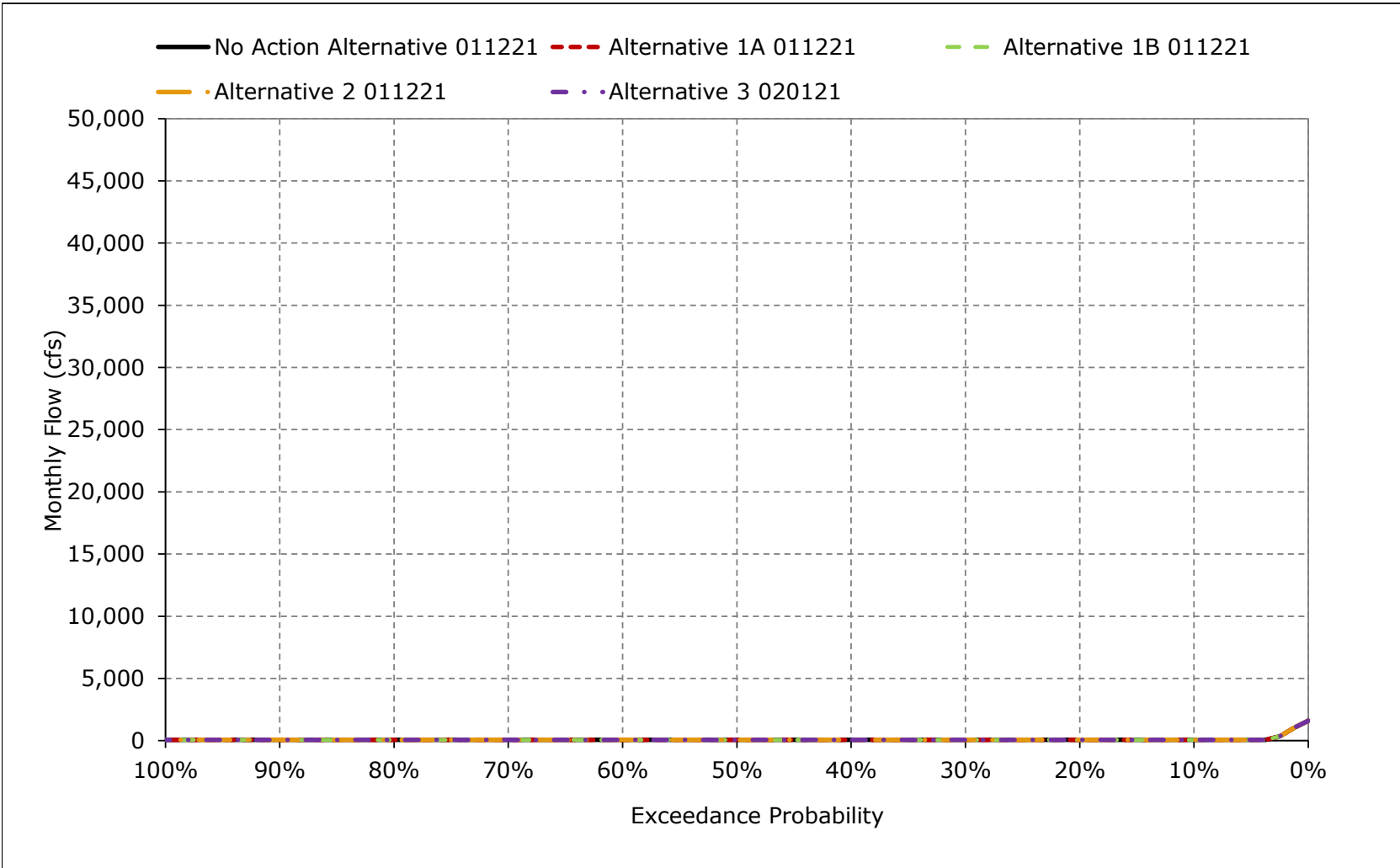


**Figure 5B3-3-14. Yolo Bypass Flow, May**

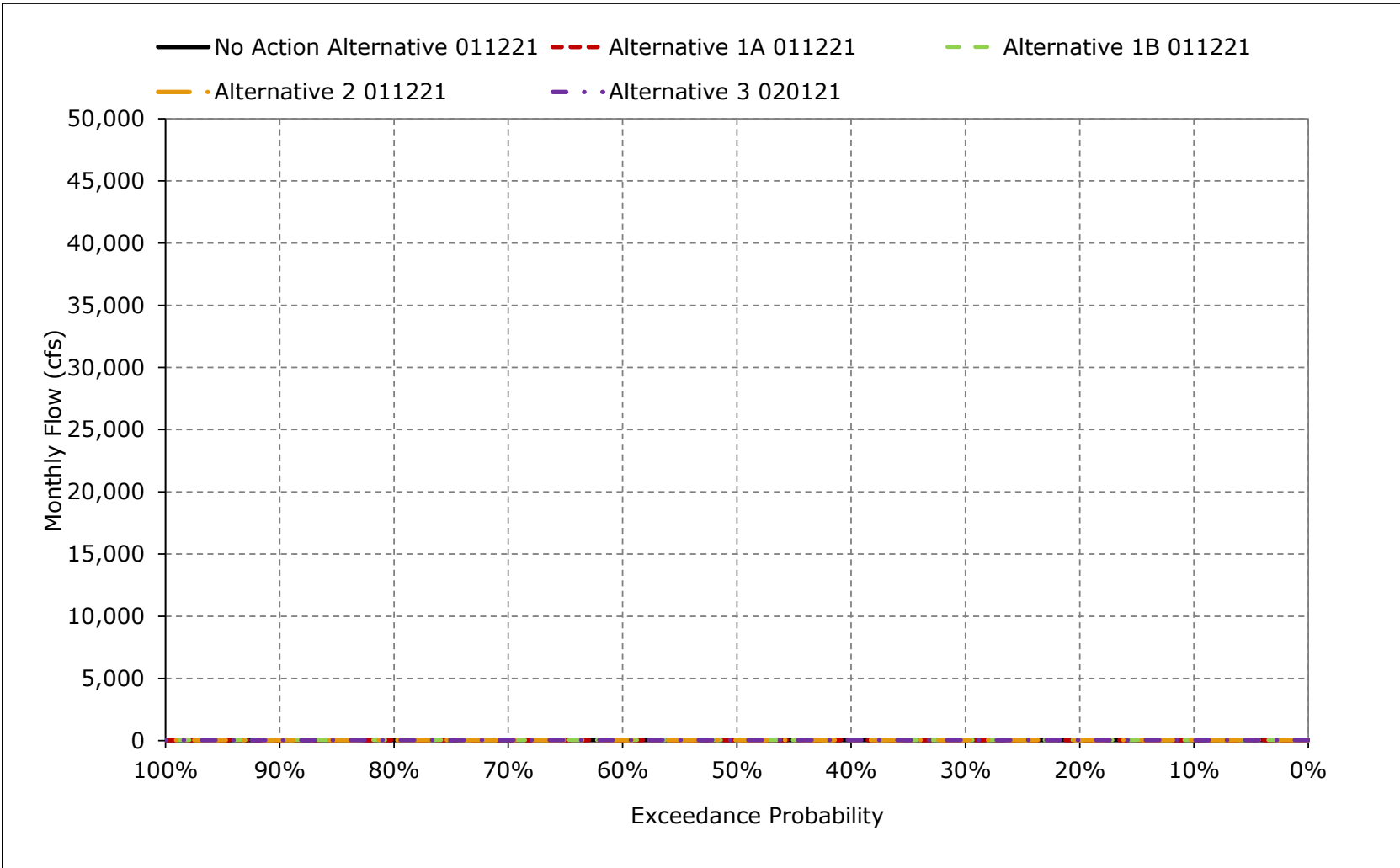




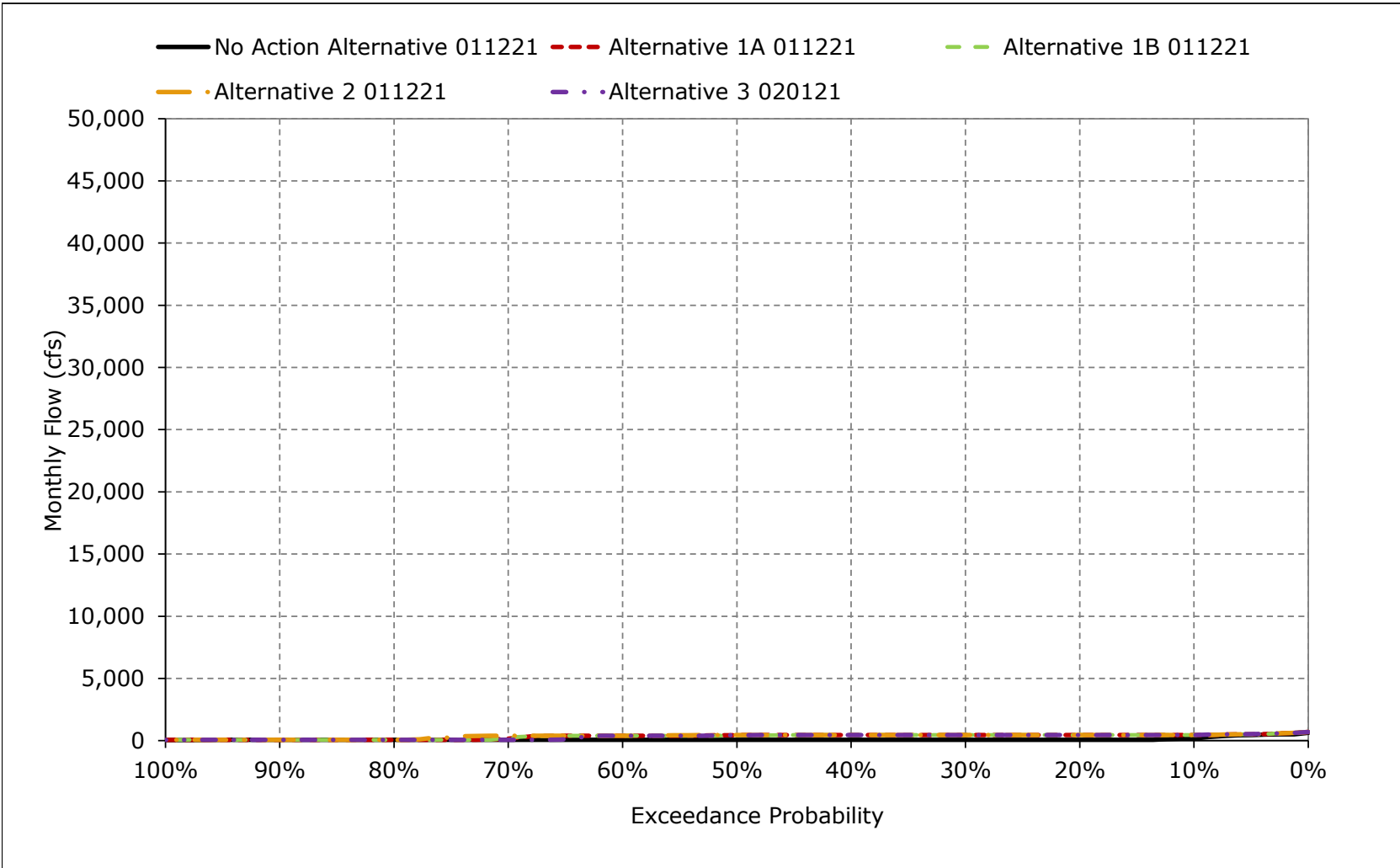
**Figure 5B3-3-15. Yolo Bypass Flow, June**



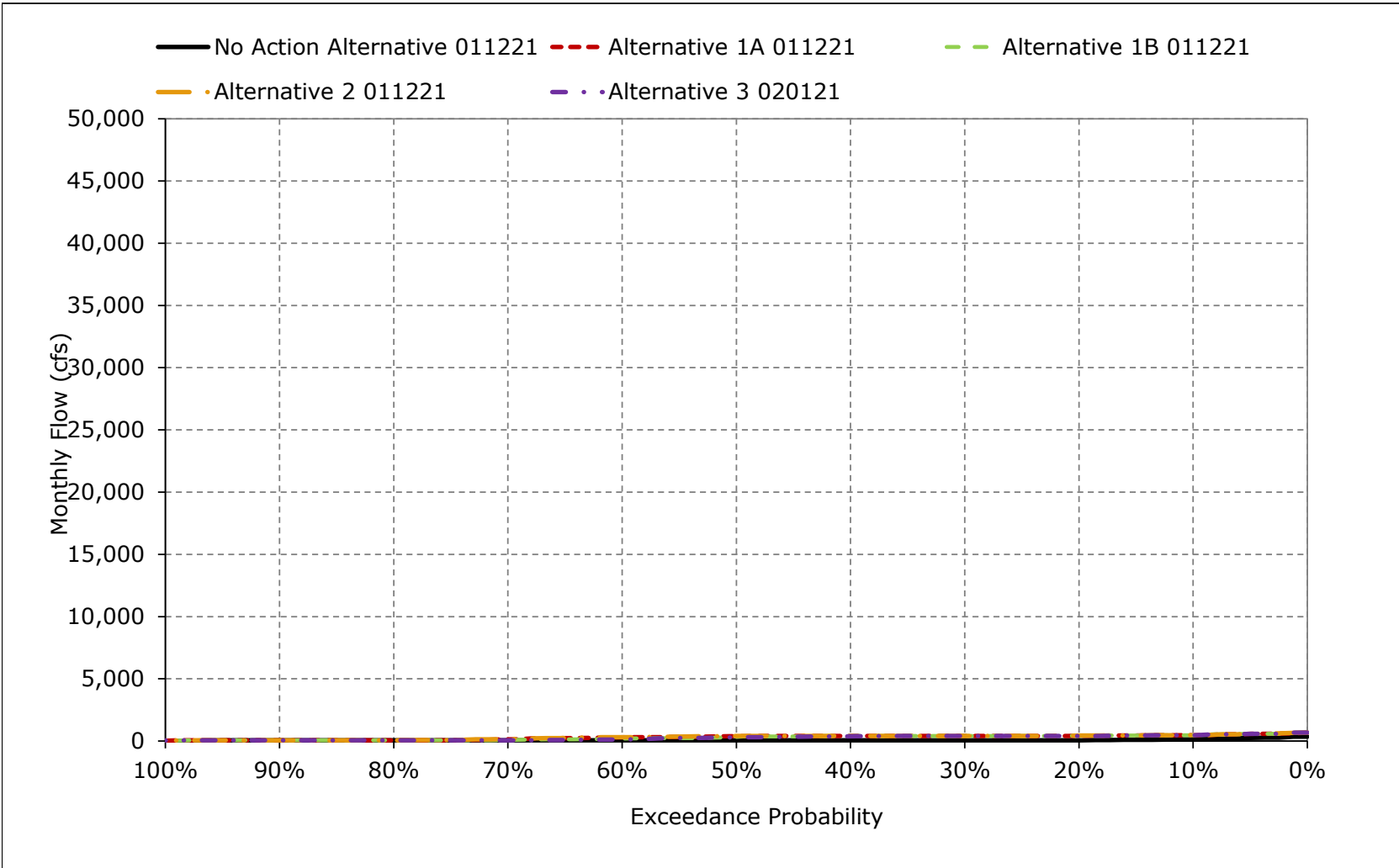
**Figure 5B3-3-16. Yolo Bypass Flow, July**



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



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



**Table 5B3-4-1a. Sacramento River Flow at Rio Vista, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	11,079	19,997	58,275	86,943	107,488	77,055	53,732	36,423	20,683	14,132	10,315	13,485
20%	9,494	11,733	32,478	58,610	67,939	51,031	37,503	25,881	11,923	13,600	9,929	13,013
30%	7,487	9,721	19,457	41,043	56,217	37,225	21,624	16,340	8,741	12,240	9,571	12,805
40%	6,816	8,799	15,418	26,232	45,365	29,656	19,570	13,145	8,506	11,358	9,304	12,107
50%	6,181	8,476	11,939	20,149	31,081	21,568	14,497	11,463	8,071	10,755	8,586	8,192
60%	5,336	7,921	11,019	15,921	23,266	19,223	11,702	9,901	7,696	9,396	7,319	6,098
70%	4,695	6,328	10,006	12,152	17,598	14,883	9,473	8,482	7,085	8,390	5,726	5,237
80%	4,198	5,558	8,478	10,211	14,582	11,654	8,746	7,372	6,370	7,187	4,745	4,598
90%	3,722	4,108	6,375	9,155	11,471	9,087	8,035	6,763	5,454	4,751	4,212	3,849
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	7,025	10,743	22,231	36,592	46,729	35,367	22,883	16,450	10,621	10,074	7,645	8,801
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	9,696	13,851	25,847	70,937	83,943	63,299	40,717	27,888	16,646	11,232	9,409	13,023
Above Normal (15%)	7,445	12,570	20,562	40,616	53,162	44,974	24,237	18,800	10,416	12,493	9,762	12,683
Below Normal (17%)	7,930	11,683	25,527	20,045	32,749	19,114	15,826	12,259	8,018	12,113	8,835	7,060
Dry (22%)	4,465	8,389	23,939	13,903	21,286	17,409	11,445	8,735	7,733	8,930	4,994	4,862
Critical (15%)	3,606	4,615	9,659	11,489	14,141	11,142	8,280	5,783	5,142	4,485	4,291	3,710

**Table 5B3-4-1b. Sacramento River Flow at Rio Vista, Alternative 1A 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	11,081	19,305	56,502	83,503	104,639	74,843	50,241	36,340	15,392	14,204	10,521	13,857
20%	9,864	11,067	32,579	56,279	67,625	50,418	36,342	25,857	11,309	13,540	10,240	13,366
30%	7,616	9,783	19,453	39,612	54,783	36,028	21,637	16,090	8,702	12,240	9,872	13,041
40%	7,095	8,775	15,431	25,608	44,225	29,625	19,596	13,031	8,495	11,494	9,727	12,436
50%	6,722	8,585	11,591	19,802	30,037	20,385	14,530	11,321	8,043	10,927	8,974	8,300
60%	6,077	8,059	10,804	15,457	22,695	17,444	11,977	9,853	7,714	9,667	8,202	6,675
70%	5,780	6,993	9,571	11,612	17,213	14,382	9,709	8,504	7,101	8,976	6,544	6,050
80%	5,356	6,332	8,553	10,078	14,352	11,416	8,767	7,420	6,356	7,603	5,760	5,624
90%	4,372	4,455	6,495	9,223	11,327	9,105	8,065	6,826	5,459	5,117	4,794	4,577
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	7,538	10,840	22,076	35,811	45,805	34,305	22,578	16,320	10,441	10,303	8,217	9,306
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	9,817	13,508	25,838	69,703	82,661	62,244	39,914	27,654	16,427	11,004	9,663	13,338
Above Normal (15%)	7,734	12,431	20,384	39,154	51,959	43,084	23,994	18,656	9,820	12,538	10,030	13,040
Below Normal (17%)	8,418	12,095	25,165	19,523	31,681	17,965	15,632	12,126	7,872	12,280	9,421	7,441
Dry (22%)	5,442	9,053	23,889	13,595	20,748	16,366	11,509	8,708	7,716	9,700	6,131	5,725
Critical (15%)	4,520	4,683	9,298	11,360	13,859	10,961	8,310	5,738	5,178	5,149	4,996	4,386

**Table 5B3-4-1c. Sacramento River Flow at Rio Vista, Alternative 1A 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2	-692	-1,773	-3,440	-2,850	-2,212	-3,491	-82	-5,291	73	205	372
20%	370	-666	101	-2,331	-314	-613	-1,161	-25	-614	-59	311	352
30%	129	62	-3	-1,431	-1,434	-1,197	13	-250	-39	0	300	235
40%	280	-24	13	-624	-1,140	-31	26	-114	-11	136	423	329
50%	541	109	-348	-347	-1,044	-1,183	33	-143	-28	173	388	108
60%	741	138	-215	-464	-571	-1,779	275	-49	18	271	883	577
70%	1,086	665	-435	-540	-385	-501	236	22	16	587	817	813
80%	1,158	774	75	-133	-230	-238	21	48	-14	416	1,015	1,027
90%	650	347	120	68	-144	18	30	63	5	366	582	727
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	513	97	-155	-781	-925	-1,063	-305	-130	-180	229	573	505
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	122	-342	-9	-1,234	-1,283	-1,055	-803	-233	-219	-228	253	315
Above Normal (15%)	289	-139	-179	-1,462	-1,203	-1,891	-243	-144	-596	46	268	357
Below Normal (17%)	489	412	-362	-522	-1,068	-1,149	-195	-134	-145	167	587	381
Dry (22%)	978	664	-51	-308	-538	-1,043	63	-27	-17	770	1,138	863
Critical (15%)	914	69	-361	-128	-283	-181	30	-45	36	664	705	676

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B3-4-2a. Sacramento River Flow at Rio Vista, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	11,079	19,997	58,275	86,943	107,488	77,055	53,732	36,423	20,683	14,132	10,315	13,485
20%	9,494	11,733	32,478	58,610	67,939	51,031	37,503	25,881	11,923	13,600	9,929	13,013
30%	7,487	9,721	19,457	41,043	56,217	37,225	21,624	16,340	8,741	12,240	9,571	12,805
40%	6,816	8,799	15,418	26,232	45,365	29,656	19,570	13,145	8,506	11,358	9,304	12,107
50%	6,181	8,476	11,939	20,149	31,081	21,568	14,497	11,463	8,071	10,755	8,586	8,192
60%	5,336	7,921	11,019	15,921	23,266	19,223	11,702	9,901	7,696	9,396	7,319	6,098
70%	4,695	6,328	10,006	12,152	17,598	14,883	9,473	8,482	7,085	8,390	5,726	5,237
80%	4,198	5,558	8,478	10,211	14,582	11,654	8,746	7,372	6,370	7,187	4,745	4,598
90%	3,722	4,108	6,375	9,155	11,471	9,087	8,035	6,763	5,454	4,751	4,212	3,849
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	7,025	10,743	22,231	36,592	46,729	35,367	22,883	16,450	10,621	10,074	7,645	8,801
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	9,696	13,851	25,847	70,937	83,943	63,299	40,717	27,888	16,646	11,232	9,409	13,023
Above Normal (15%)	7,445	12,570	20,562	40,616	53,162	44,974	24,237	18,800	10,416	12,493	9,762	12,683
Below Normal (17%)	7,930	11,683	25,527	20,045	32,749	19,114	15,826	12,259	8,018	12,113	8,835	7,060
Dry (22%)	4,465	8,389	23,939	13,903	21,286	17,409	11,445	8,735	7,733	8,930	4,994	4,862
Critical (15%)	3,606	4,615	9,659	11,489	14,141	11,142	8,280	5,783	5,142	4,485	4,291	3,710

**Table 5B3-4-2b. Sacramento River Flow at Rio Vista, Alternative 1B 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	11,082	19,299	56,431	83,494	104,885	74,918	50,243	35,429	15,394	14,204	10,521	13,874
20%	9,868	11,067	33,083	56,414	67,619	50,403	36,341	25,863	11,310	13,542	10,240	13,355
30%	7,637	9,780	19,639	39,600	55,025	36,026	21,660	16,089	8,697	12,249	9,852	13,028
40%	7,074	8,804	15,431	25,608	45,036	29,622	19,596	13,031	8,491	11,553	9,707	12,283
50%	6,614	8,635	11,587	19,838	30,496	20,385	14,530	11,323	8,015	10,920	8,981	8,348
60%	6,004	8,205	10,792	15,485	22,751	17,443	11,977	9,852	7,696	9,699	8,204	6,630
70%	5,725	6,993	9,574	11,611	17,217	14,364	9,709	8,538	7,102	9,038	6,467	6,050
80%	5,085	6,293	8,569	10,076	14,447	11,416	8,848	7,420	6,356	7,672	5,753	5,580
90%	4,204	4,507	6,503	9,184	11,449	9,102	8,063	6,826	5,459	5,097	4,695	4,560
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	7,510	10,919	22,116	35,784	45,799	34,290	22,552	16,296	10,438	10,320	8,219	9,312
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	9,804	13,508	25,926	69,626	82,460	62,215	39,793	27,583	16,402	11,006	9,661	13,347
Above Normal (15%)	7,738	12,518	20,508	39,234	51,960	43,132	24,030	18,656	9,826	12,543	10,025	13,015
Below Normal (17%)	8,417	12,317	25,267	19,543	31,813	17,973	15,651	12,130	7,857	12,282	9,424	7,486
Dry (22%)	5,412	9,149	23,739	13,579	20,840	16,351	11,521	8,704	7,749	9,764	6,158	5,638
Critical (15%)	4,398	4,738	9,359	11,260	13,962	10,892	8,316	5,726	5,174	5,156	4,976	4,507

**Table 5B3-4-2c. Sacramento River Flow at Rio Vista, Alternative 1B 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	3	-698	-1,845	-3,449	-2,603	-2,138	-3,489	-994	-5,288	73	205	389
20%	373	-666	606	-2,196	-320	-628	-1,162	-18	-613	-58	311	341
30%	149	59	182	-1,443	-1,192	-1,199	36	-251	-44	9	281	223
40%	258	4	13	-624	-329	-33	25	-114	-15	195	403	175
50%	433	159	-352	-311	-585	-1,182	33	-140	-56	166	395	156
60%	668	284	-227	-436	-514	-1,780	275	-49	0	303	885	533
70%	1,030	666	-432	-541	-381	-519	236	56	17	649	741	813
80%	888	735	90	-134	-136	-238	102	48	-14	485	1,008	982
90%	481	399	128	29	-22	15	28	63	5	346	483	711
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	485	177	-115	-808	-930	-1,077	-331	-155	-183	245	575	511
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	108	-343	79	-1,311	-1,484	-1,084	-924	-304	-244	-226	251	324
Above Normal (15%)	293	-52	-54	-1,382	-1,202	-1,843	-207	-144	-590	50	263	332
Below Normal (17%)	487	634	-260	-502	-936	-1,142	-176	-129	-160	169	589	426
Dry (22%)	948	760	-200	-324	-446	-1,058	76	-31	16	833	1,164	776
Critical (15%)	793	123	-300	-228	-179	-250	36	-56	32	671	685	797

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B3-4-3a. Sacramento River Flow at Rio Vista, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	11,079	19,997	58,275	86,943	107,488	77,055	53,732	36,423	20,683	14,132	10,315	13,485
20%	9,494	11,733	32,478	58,610	67,939	51,031	37,503	25,881	11,923	13,600	9,929	13,013
30%	7,487	9,721	19,457	41,043	56,217	37,225	21,624	16,340	8,741	12,240	9,571	12,805
40%	6,816	8,799	15,418	26,232	45,365	29,656	19,570	13,145	8,506	11,358	9,304	12,107
50%	6,181	8,476	11,939	20,149	31,081	21,568	14,497	11,463	8,071	10,755	8,586	8,192
60%	5,336	7,921	11,019	15,921	23,266	19,223	11,702	9,901	7,696	9,396	7,319	6,098
70%	4,695	6,328	10,006	12,152	17,598	14,883	9,473	8,482	7,085	8,390	5,726	5,237
80%	4,198	5,558	8,478	10,211	14,582	11,654	8,746	7,372	6,370	7,187	4,745	4,598
90%	3,722	4,108	6,375	9,155	11,471	9,087	8,035	6,763	5,454	4,751	4,212	3,849
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	7,025	10,743	22,231	36,592	46,729	35,367	22,883	16,450	10,621	10,074	7,645	8,801
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	9,696	13,851	25,847	70,937	83,943	63,299	40,717	27,888	16,646	11,232	9,409	13,023
Above Normal (15%)	7,445	12,570	20,562	40,616	53,162	44,974	24,237	18,800	10,416	12,493	9,762	12,683
Below Normal (17%)	7,930	11,683	25,527	20,045	32,749	19,114	15,826	12,259	8,018	12,113	8,835	7,060
Dry (22%)	4,465	8,389	23,939	13,903	21,286	17,409	11,445	8,735	7,733	8,930	4,994	4,862
Critical (15%)	3,606	4,615	9,659	11,489	14,141	11,142	8,280	5,783	5,142	4,485	4,291	3,710

**Table 5B3-4-3b. Sacramento River Flow at Rio Vista, Alternative 2 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	11,081	19,289	56,503	83,505	104,712	76,224	50,241	36,328	15,393	14,204	10,521	13,888
20%	9,851	11,067	32,722	56,280	67,623	50,425	36,788	25,857	11,309	13,542	10,240	13,378
30%	7,742	9,779	19,459	39,731	54,893	36,029	21,641	16,089	8,702	12,261	9,903	13,031
40%	7,111	8,778	15,429	25,607	44,313	29,627	19,597	13,030	8,495	11,494	9,727	12,464
50%	6,587	8,585	11,589	19,805	30,038	20,392	14,527	11,321	8,042	10,929	9,087	8,332
60%	6,023	8,059	10,827	15,472	22,752	17,444	11,977	9,853	7,711	9,601	8,202	6,706
70%	5,707	6,791	9,581	11,613	17,215	14,373	9,709	8,504	7,101	8,986	6,544	5,986
80%	5,185	5,833	8,554	10,078	14,434	11,416	8,767	7,420	6,356	7,603	5,745	5,604
90%	4,136	4,517	6,539	9,185	11,327	9,093	8,065	6,817	5,459	5,093	4,737	4,396
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	7,496	10,782	22,095	35,812	45,857	34,380	22,613	16,321	10,442	10,296	8,219	9,299
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	9,813	13,510	25,847	69,736	82,755	62,447	40,022	27,656	16,431	11,006	9,688	13,383
Above Normal (15%)	7,738	12,441	20,383	39,153	52,009	43,105	23,993	18,655	9,820	12,539	10,045	13,042
Below Normal (17%)	8,493	12,050	25,198	19,543	31,643	17,973	15,639	12,130	7,872	12,282	9,447	7,477
Dry (22%)	5,291	8,787	23,905	13,595	20,772	16,424	11,507	8,708	7,714	9,687	6,131	5,665
Critical (15%)	4,381	4,722	9,341	11,277	13,970	10,922	8,310	5,737	5,178	5,112	4,910	4,284

**Table 5B3-4-3c. Sacramento River Flow at Rio Vista, Alternative 2 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2	-708	-1,773	-3,438	-2,777	-832	-3,491	-94	-5,290	73	206	403
20%	356	-666	245	-2,330	-317	-606	-715	-25	-613	-58	311	365
30%	255	58	2	-1,312	-1,324	-1,196	17	-251	-39	21	332	225
40%	296	-21	11	-625	-1,052	-29	26	-115	-11	136	423	356
50%	406	109	-350	-344	-1,043	-1,176	30	-143	-28	174	501	140
60%	687	138	-192	-449	-514	-1,779	275	-48	15	205	882	608
70%	1,012	463	-425	-539	-383	-510	236	22	16	596	817	750
80%	987	275	75	-133	-148	-238	21	48	-14	416	999	1,006
90%	414	409	164	30	-144	6	30	54	5	341	525	547
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	471	39	-137	-779	-872	-987	-270	-129	-179	222	575	498
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	117	-340	0	-1,201	-1,188	-852	-696	-231	-214	-226	279	360
Above Normal (15%)	293	-129	-180	-1,462	-1,153	-1,870	-244	-145	-596	46	283	360
Below Normal (17%)	563	368	-330	-503	-1,106	-1,141	-187	-129	-145	169	612	417
Dry (22%)	827	398	-35	-308	-514	-985	61	-27	-19	757	1,137	803
Critical (15%)	776	107	-317	-211	-171	-220	30	-45	36	627	619	574

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B3-4-4a. Sacramento River Flow at Rio Vista, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	11,079	19,997	58,275	86,943	107,488	77,055	53,732	36,423	20,683	14,132	10,315	13,485
20%	9,494	11,733	32,478	58,610	67,939	51,031	37,503	25,881	11,923	13,600	9,929	13,013
30%	7,487	9,721	19,457	41,043	56,217	37,225	21,624	16,340	8,741	12,240	9,571	12,805
40%	6,816	8,799	15,418	26,232	45,365	29,656	19,570	13,145	8,506	11,358	9,304	12,107
50%	6,181	8,476	11,939	20,149	31,081	21,568	14,497	11,463	8,071	10,755	8,586	8,192
60%	5,336	7,921	11,019	15,921	23,266	19,223	11,702	9,901	7,696	9,396	7,319	6,098
70%	4,695	6,328	10,006	12,152	17,598	14,883	9,473	8,482	7,085	8,390	5,726	5,237
80%	4,198	5,558	8,478	10,211	14,582	11,654	8,746	7,372	6,370	7,187	4,745	4,598
90%	3,722	4,108	6,375	9,155	11,471	9,087	8,035	6,763	5,454	4,751	4,212	3,849
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	7,025	10,743	22,231	36,592	46,729	35,367	22,883	16,450	10,621	10,074	7,645	8,801
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	9,696	13,851	25,847	70,937	83,943	63,299	40,717	27,888	16,646	11,232	9,409	13,023
Above Normal (15%)	7,445	12,570	20,562	40,616	53,162	44,974	24,237	18,800	10,416	12,493	9,762	12,683
Below Normal (17%)	7,930	11,683	25,527	20,045	32,749	19,114	15,826	12,259	8,018	12,113	8,835	7,060
Dry (22%)	4,465	8,389	23,939	13,903	21,286	17,409	11,445	8,735	7,733	8,930	4,994	4,862
Critical (15%)	3,606	4,615	9,659	11,489	14,141	11,142	8,280	5,783	5,142	4,485	4,291	3,710

**Table 5B3-4-4b. Sacramento River Flow at Rio Vista, Alternative 3 020121, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	11,381	19,326	56,253	83,643	105,102	74,921	50,242	35,360	15,397	14,314	10,490	13,864
20%	10,041	11,304	33,886	56,400	67,614	50,082	36,343	25,872	11,313	13,544	10,209	13,383
30%	8,139	9,782	20,279	39,575	54,126	36,024	21,660	16,090	8,634	12,337	9,922	13,007
40%	7,185	8,804	16,480	25,608	45,734	29,418	19,594	13,134	8,491	11,593	9,686	12,540
50%	6,670	8,595	11,570	19,816	30,278	20,381	14,532	11,326	8,053	10,994	8,932	8,339
60%	5,925	8,104	10,892	15,551	22,752	17,444	11,902	9,853	7,690	9,670	8,144	6,674
70%	5,710	6,883	9,556	11,872	17,229	14,326	9,709	8,463	7,064	9,041	6,561	5,740
80%	4,719	5,956	8,558	10,068	14,335	11,398	8,870	7,420	6,438	7,479	5,633	5,258
90%	3,942	4,582	6,455	9,213	11,169	9,114	8,136	6,662	5,438	5,186	4,597	4,524
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	7,509	10,922	22,311	35,845	45,909	34,209	22,483	16,263	10,426	10,325	8,159	9,271
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	9,797	13,508	25,922	69,723	82,633	61,892	39,551	27,488	16,367	11,009	9,654	13,295
Above Normal (15%)	8,228	12,770	20,697	39,301	52,478	42,985	24,037	18,655	9,828	12,606	10,008	13,256
Below Normal (17%)	8,682	12,361	25,597	19,587	31,780	17,954	15,685	12,185	7,851	12,323	9,401	7,532
Dry (22%)	5,161	8,925	24,292	13,654	20,861	16,501	11,527	8,668	7,765	9,746	5,930	5,497
Critical (15%)	3,989	4,787	9,299	11,237	13,824	10,981	8,311	5,703	5,147	5,102	4,963	4,255

**Table 5B3-4-4c. Sacramento River Flow at Rio Vista, Alternative 3 020121 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	302	-672	-2,023	-3,300	-2,386	-2,134	-3,490	-1,062	-5,286	183	174	379
20%	547	-429	1,408	-2,210	-325	-949	-1,159	-9	-610	-55	280	370
30%	652	61	822	-1,468	-2,091	-1,201	36	-250	-107	97	350	201
40%	369	5	1,063	-624	369	-237	24	-11	-15	235	382	433
50%	489	118	-369	-333	-802	-1,187	35	-137	-17	239	346	147
60%	589	183	-127	-369	-514	-1,779	200	-49	-6	274	824	576
70%	1,015	555	-450	-280	-368	-557	236	-19	-22	651	835	503
80%	521	398	79	-143	-247	-256	125	48	68	292	888	661
90%	220	474	80	58	-302	27	101	-101	-16	435	385	675
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	484	179	80	-747	-821	-1,158	-401	-187	-195	251	514	470
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	101	-342	75	-1,214	-1,311	-1,407	-1,166	-400	-279	-223	244	272
Above Normal (15%)	783	200	134	-1,315	-684	-1,989	-200	-145	-587	113	246	573
Below Normal (17%)	752	679	69	-459	-969	-1,160	-141	-74	-167	210	567	472
Dry (22%)	696	536	352	-249	-425	-908	82	-67	32	815	937	635
Critical (15%)	383	172	-360	-251	-317	-160	30	-80	5	617	672	545

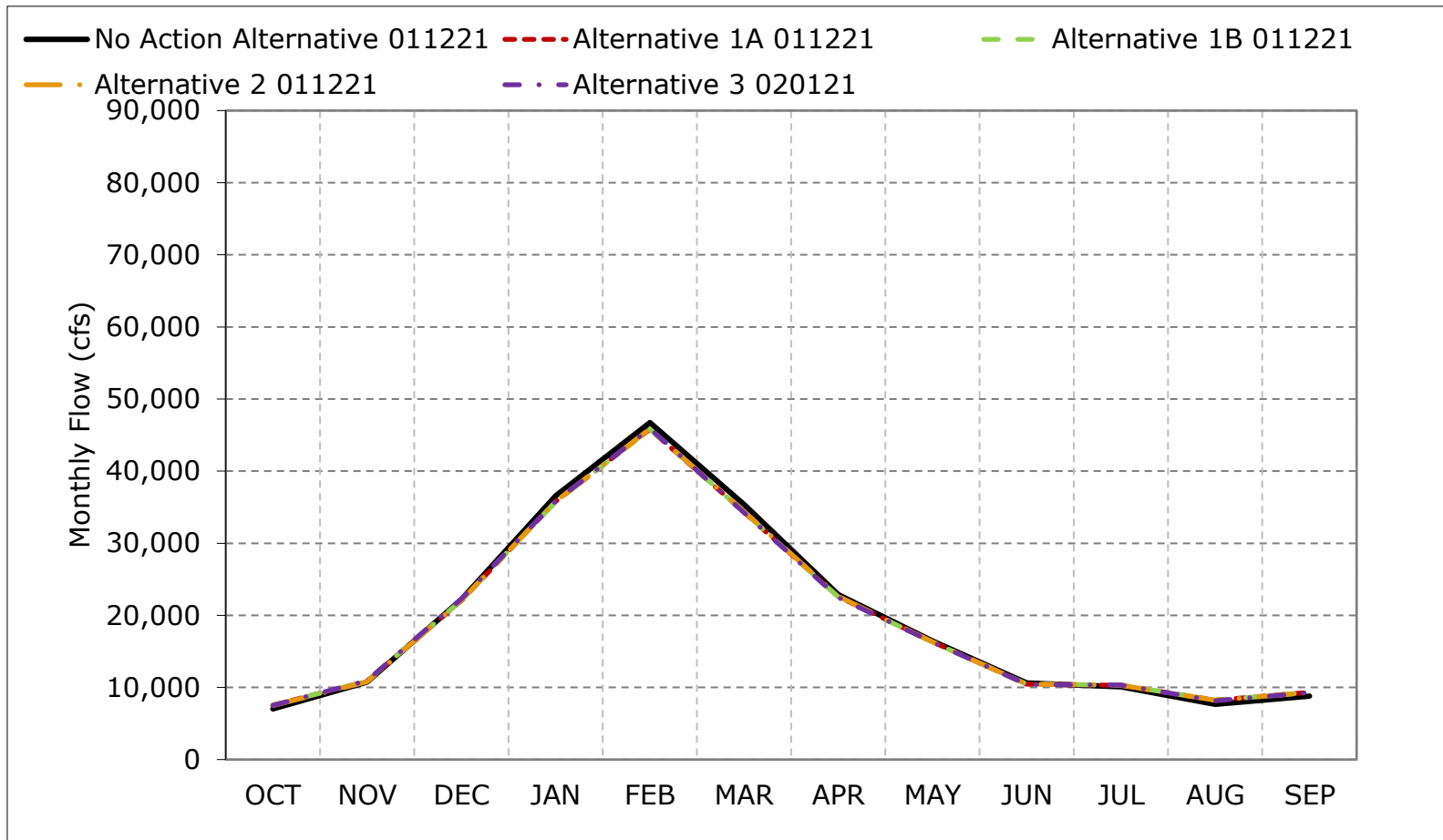
a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.



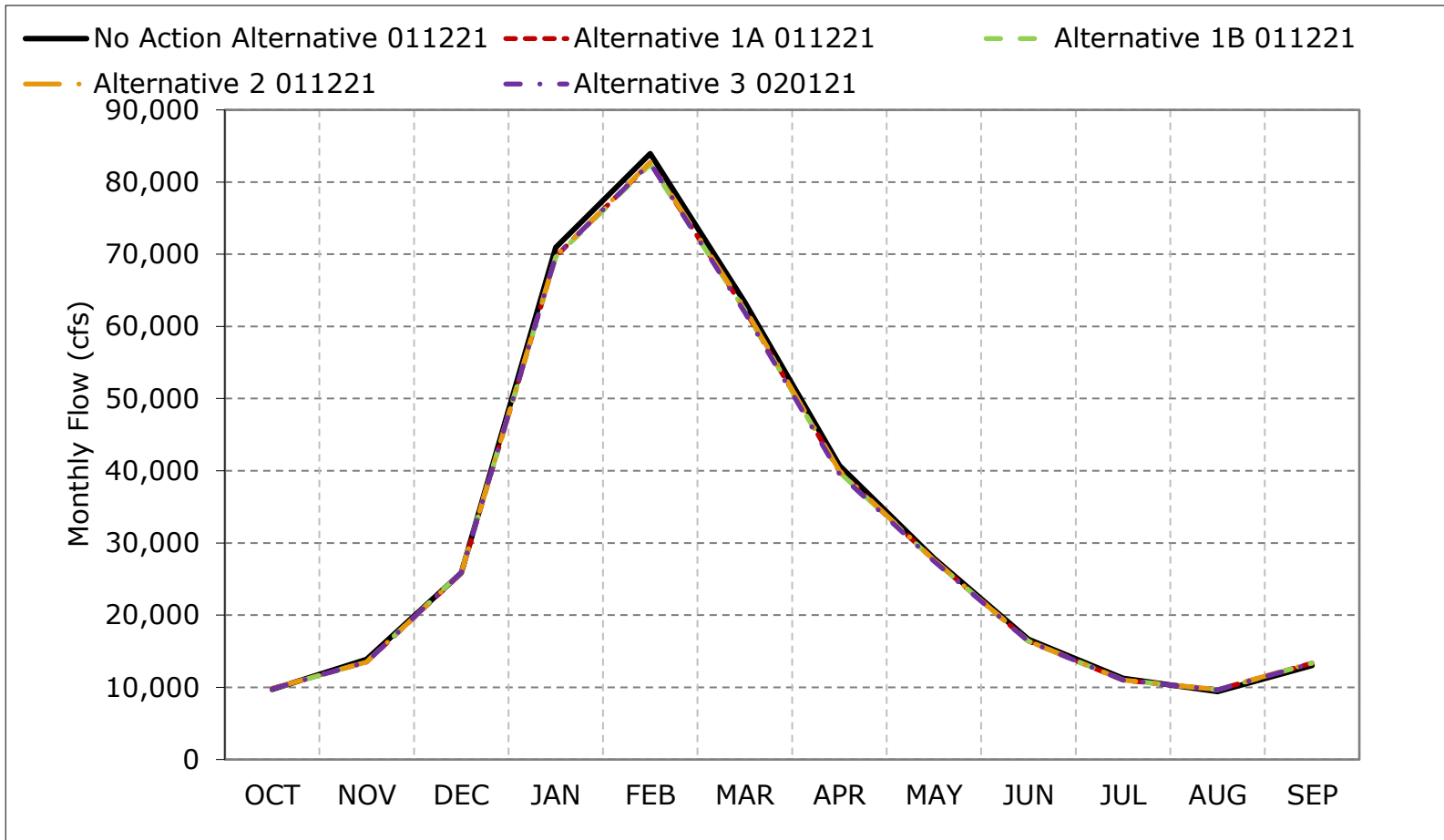
**Figure 5B3-4-1. Sacramento River Flow at Rio Vista, Long-Term Average Flow**



\*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.

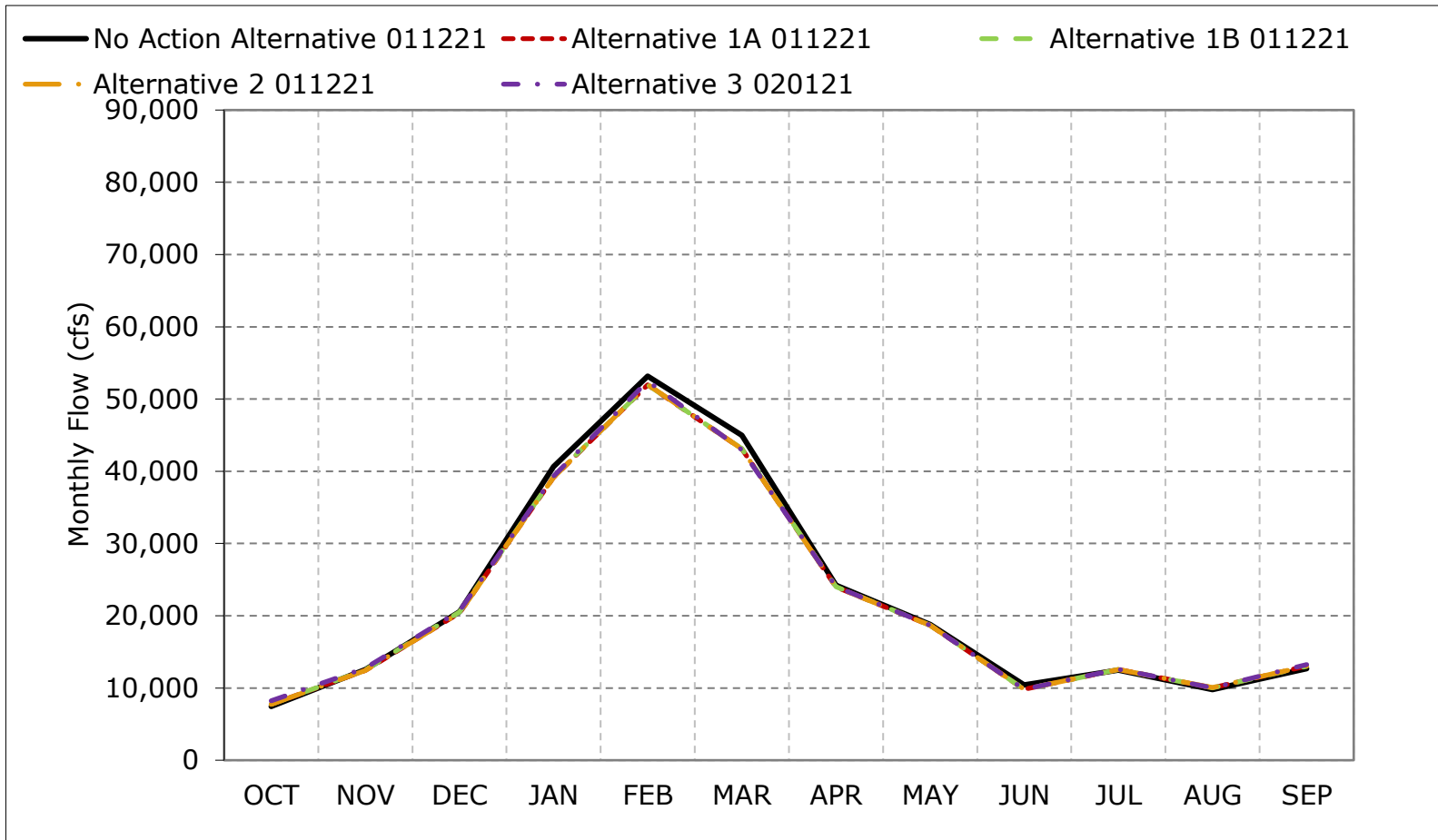
**Figure 5B3-4-2. Sacramento River Flow at Rio Vista, Wet Year Average Flow**



\*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.

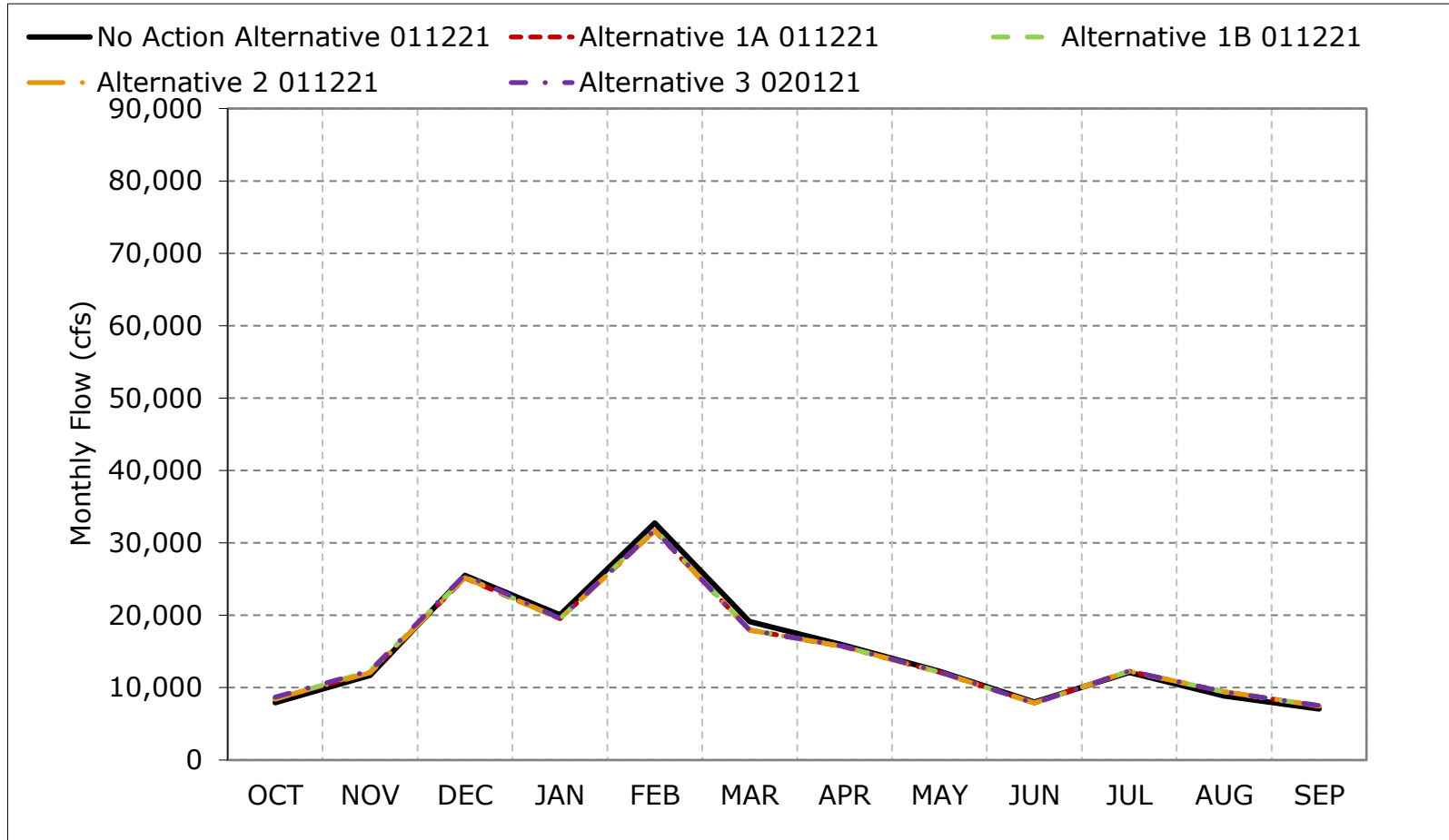
**Figure 5B3-4-3. Sacramento River Flow at Rio Vista, Above Normal Year Average Flow**



\*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.

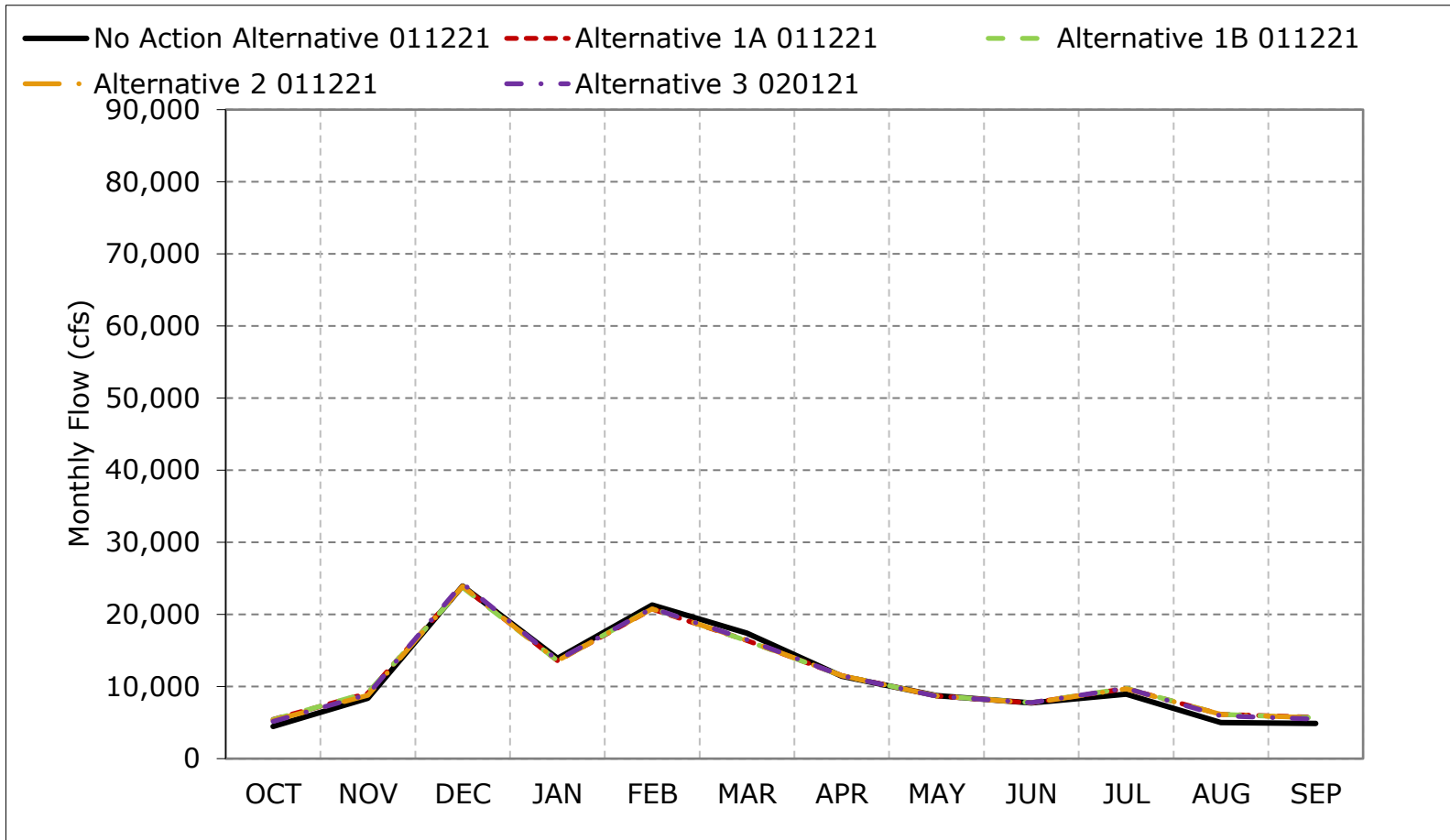
**Figure 5B3-4-4. Sacramento River Flow at Rio Vista, Below Normal Year Average Flow**



\*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.

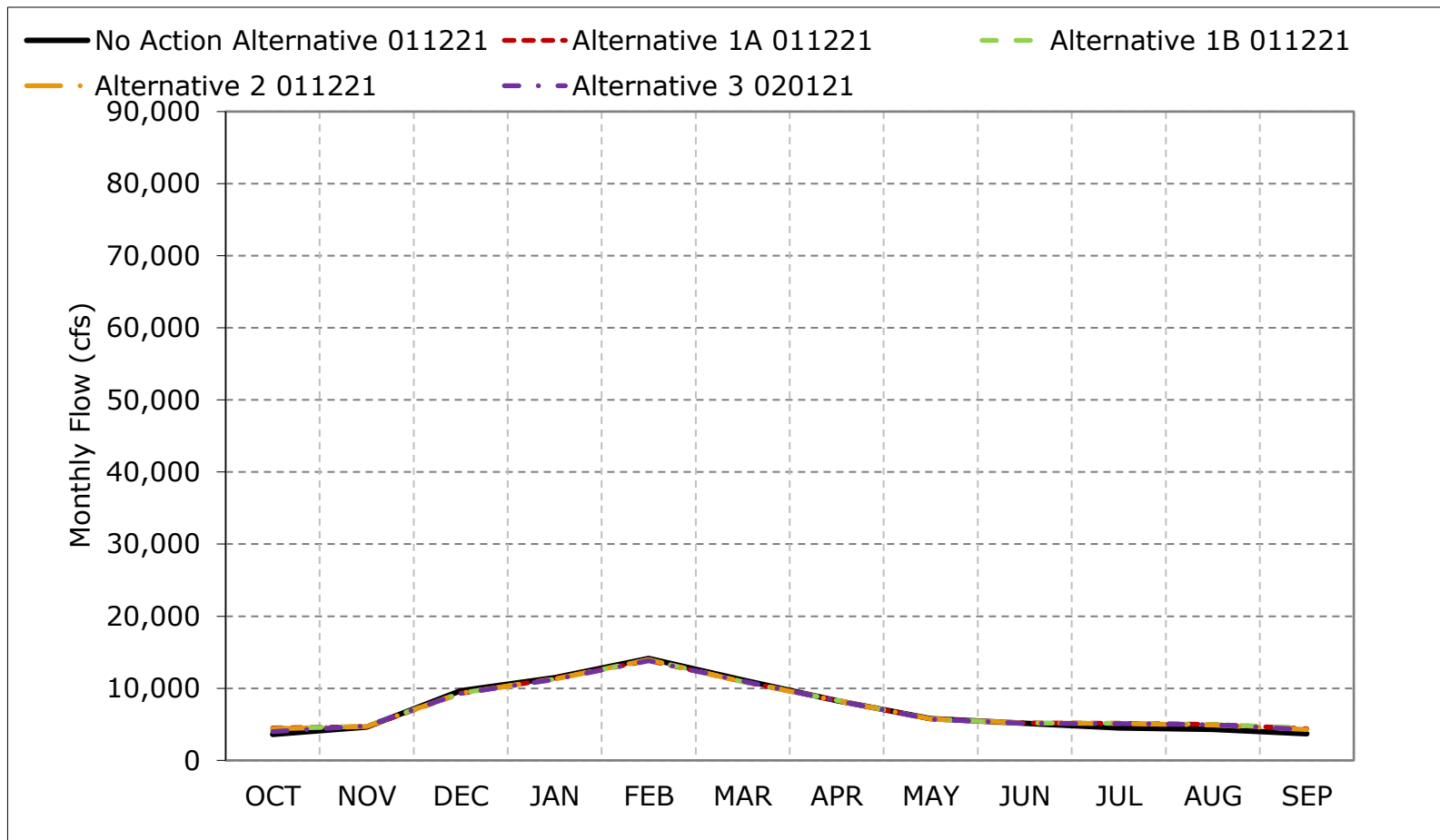
**Figure 5B3-4-5. Sacramento River Flow at Rio Vista, Dry Year Average Flow**



\*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.

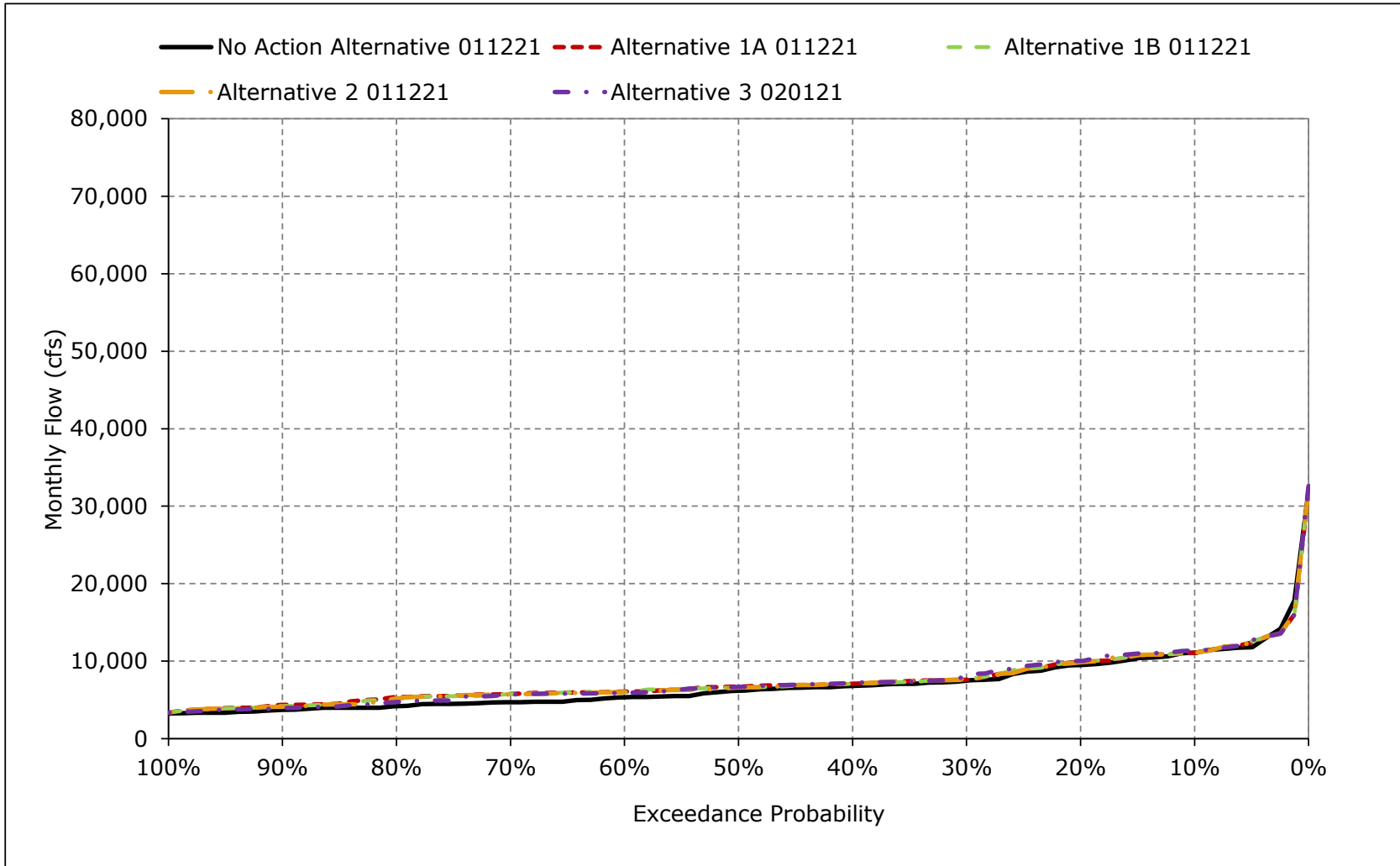
**Figure 5B3-4-6. Sacramento River Flow at Rio Vista, Critical Year Average Flow**



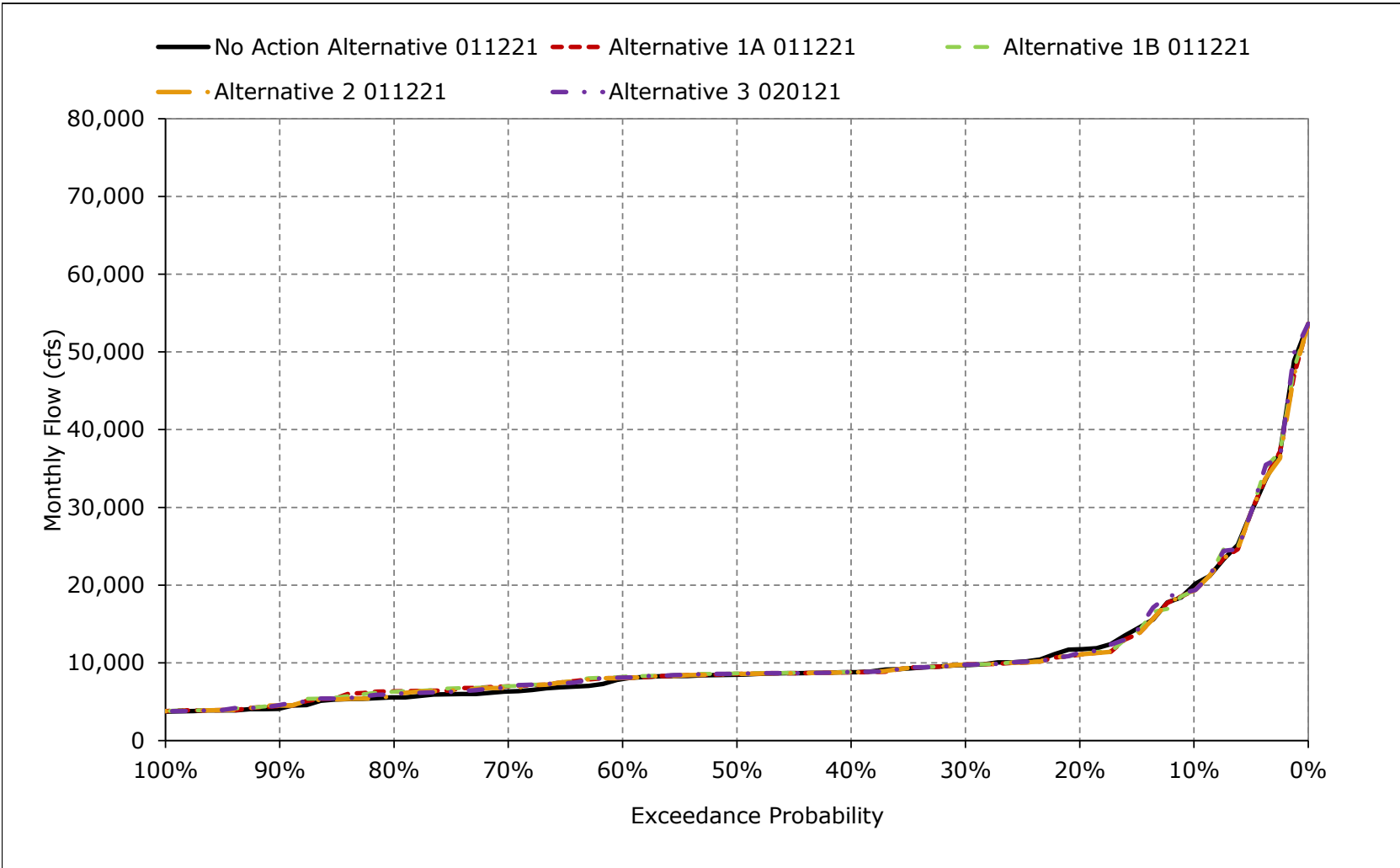
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with calendar year - year type sorting.

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

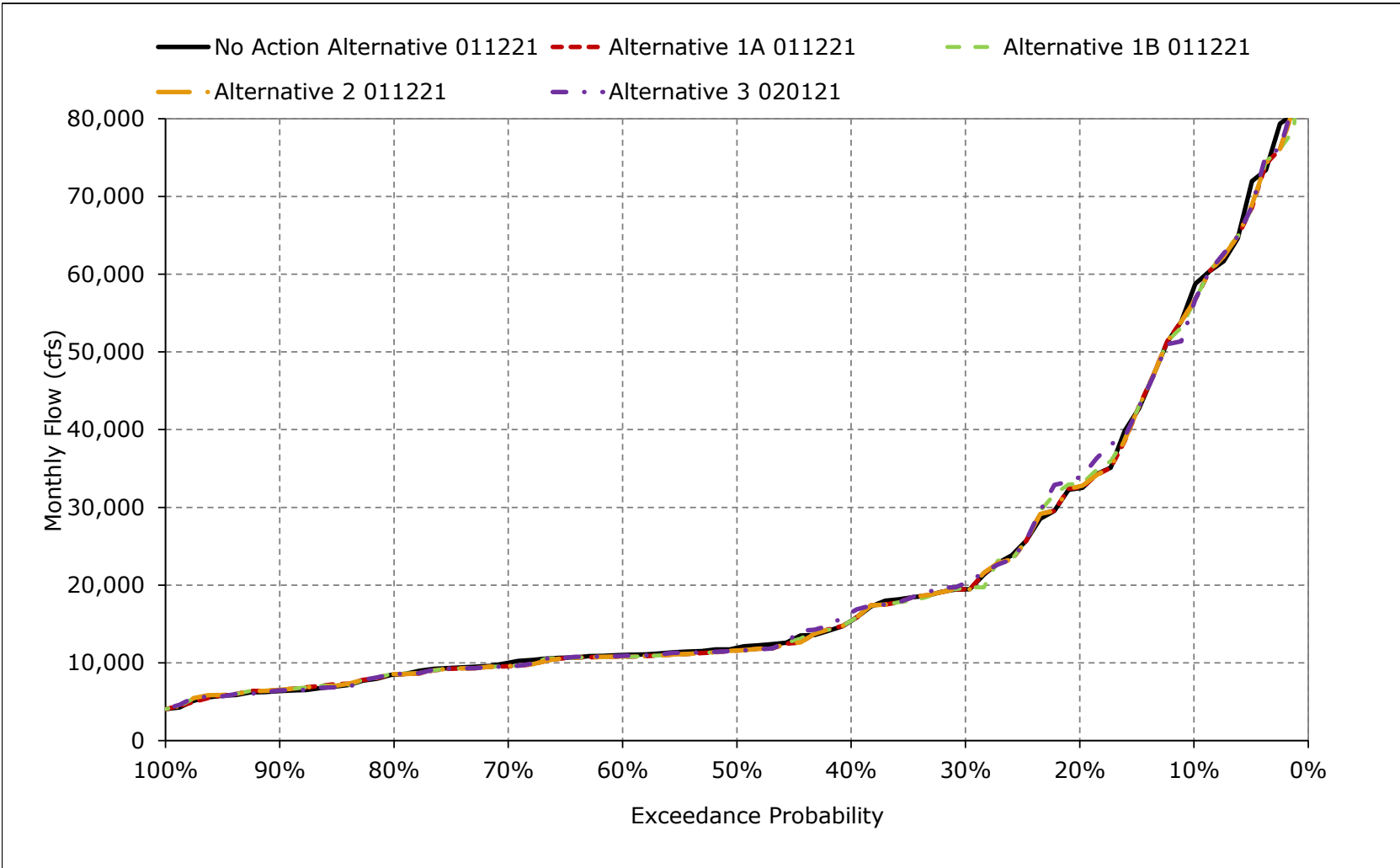


**Figure 5B3-4-8. Sacramento River Flow at Rio Vista, November**

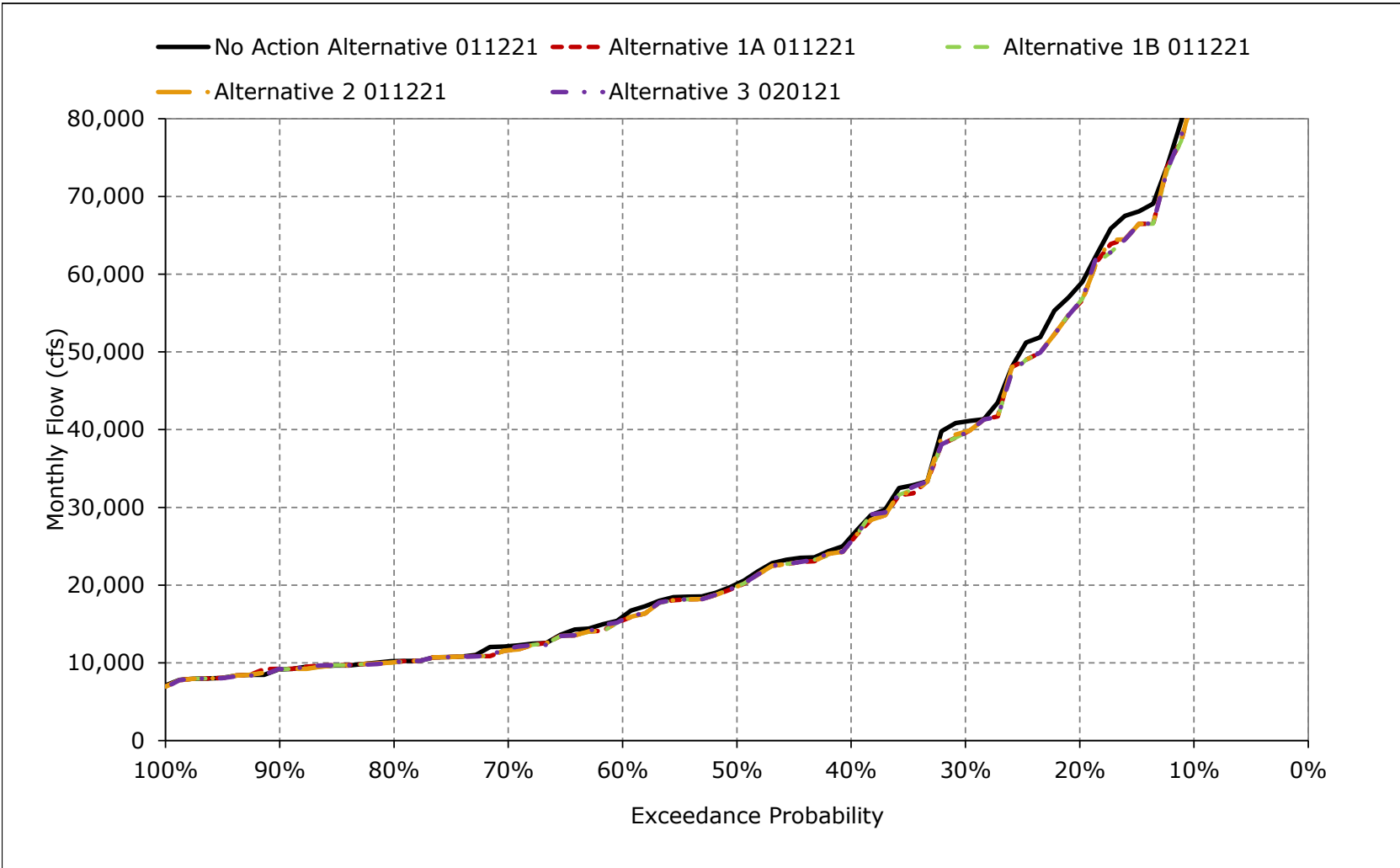




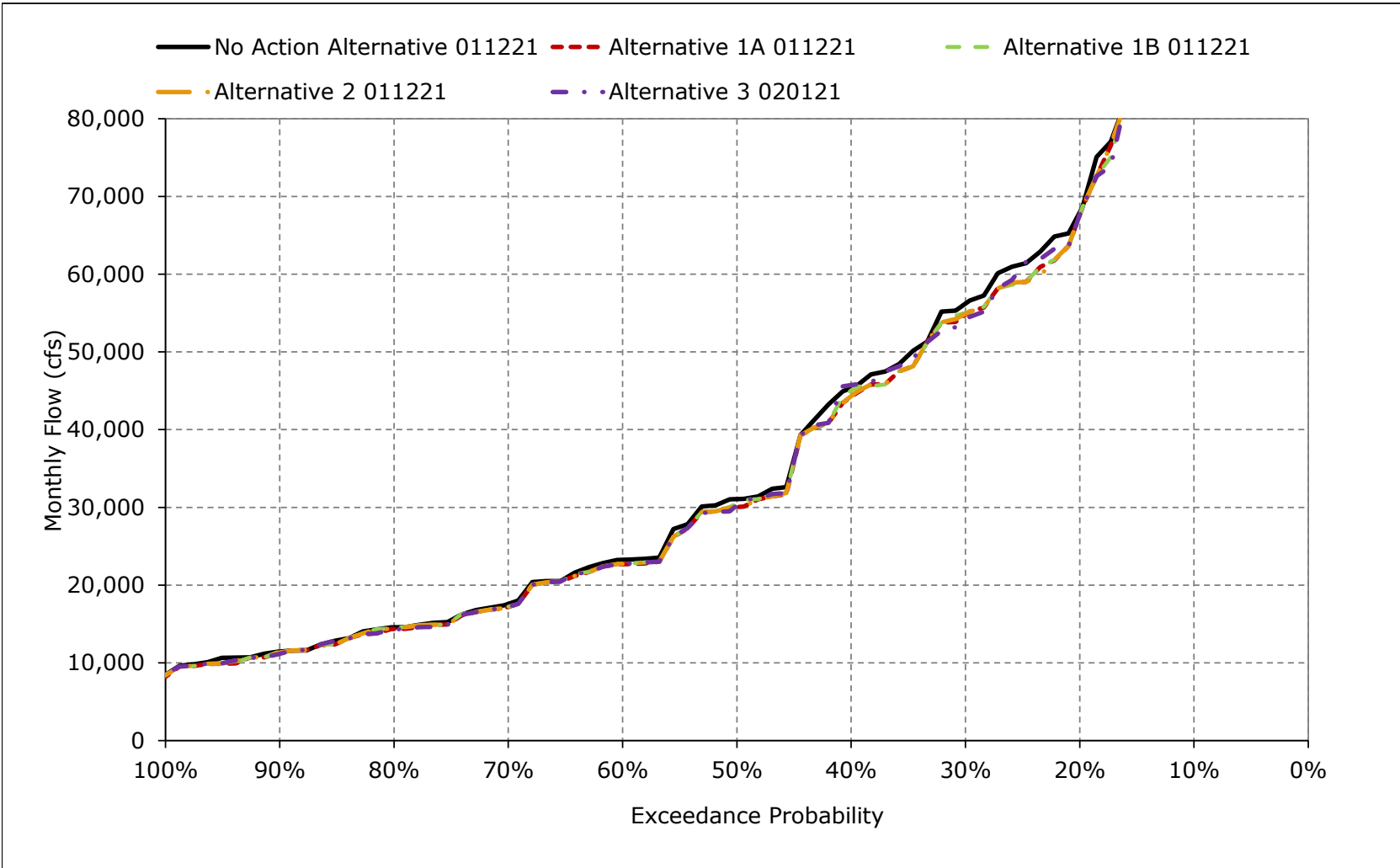
**Figure 5B3-4-9. Sacramento River Flow at Rio Vista, December**



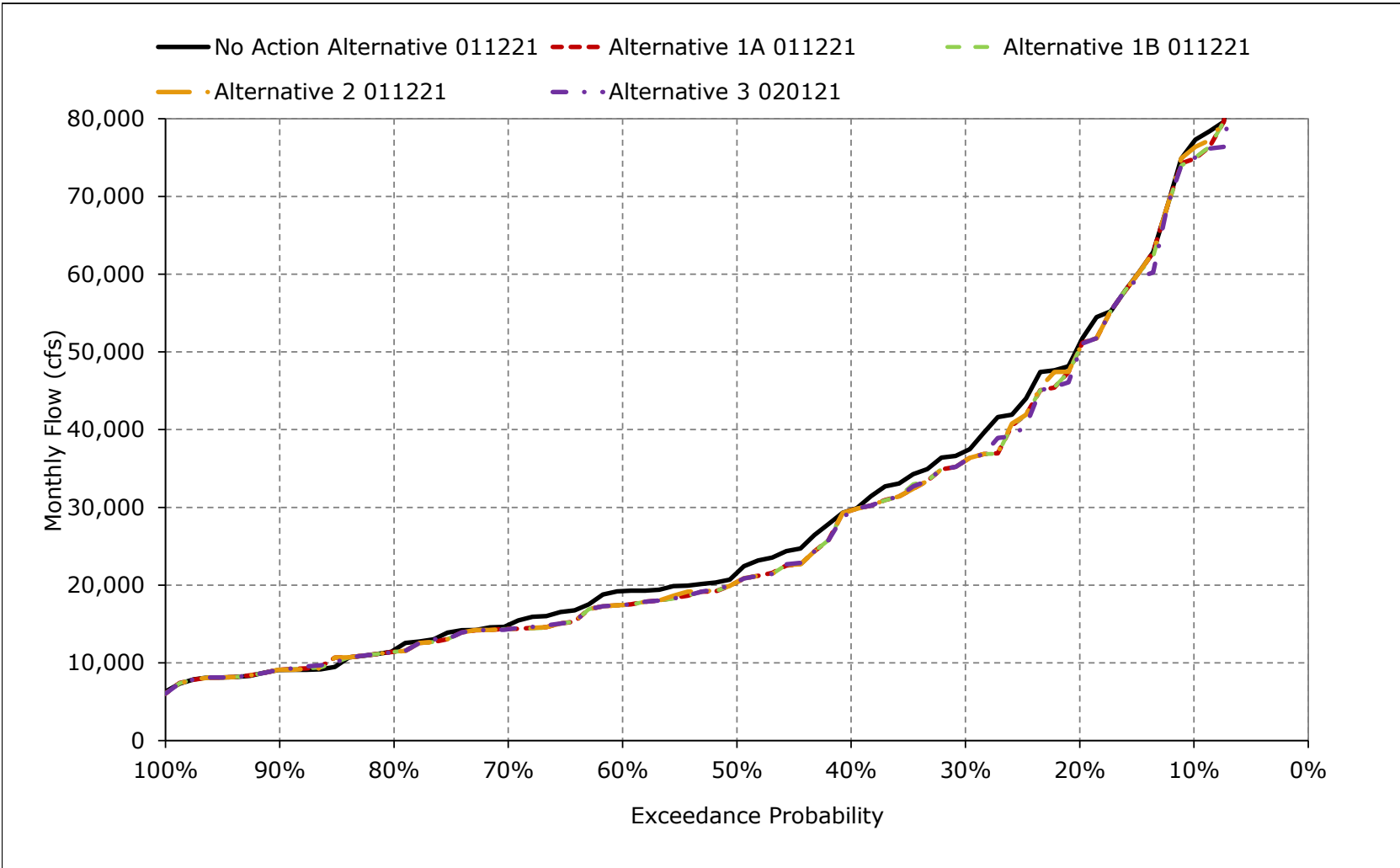
**Figure 5B3-4-10. Sacramento River Flow at Rio Vista, January**



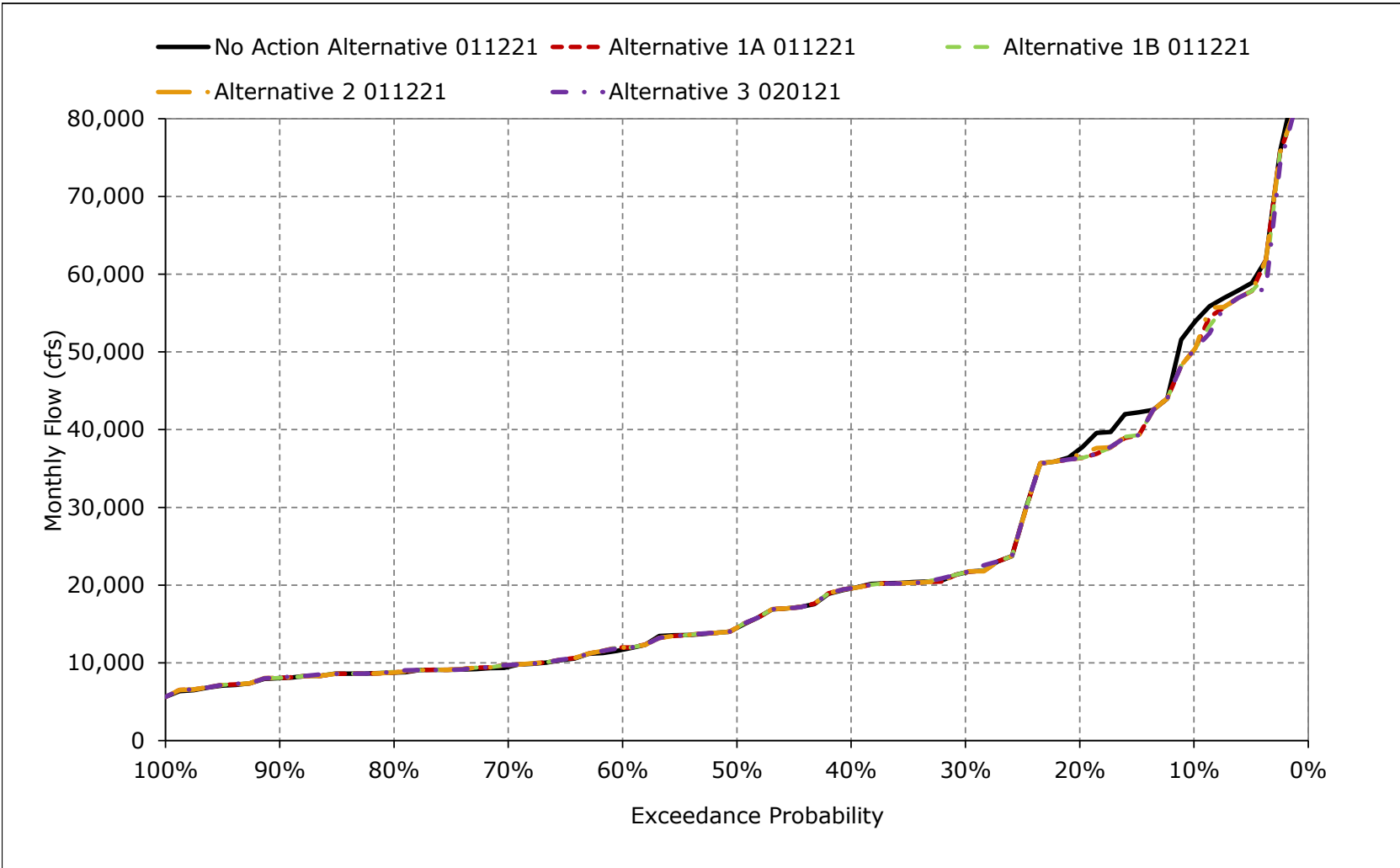
**Figure 5B3-4-11. Sacramento River Flow at Rio Vista, February**



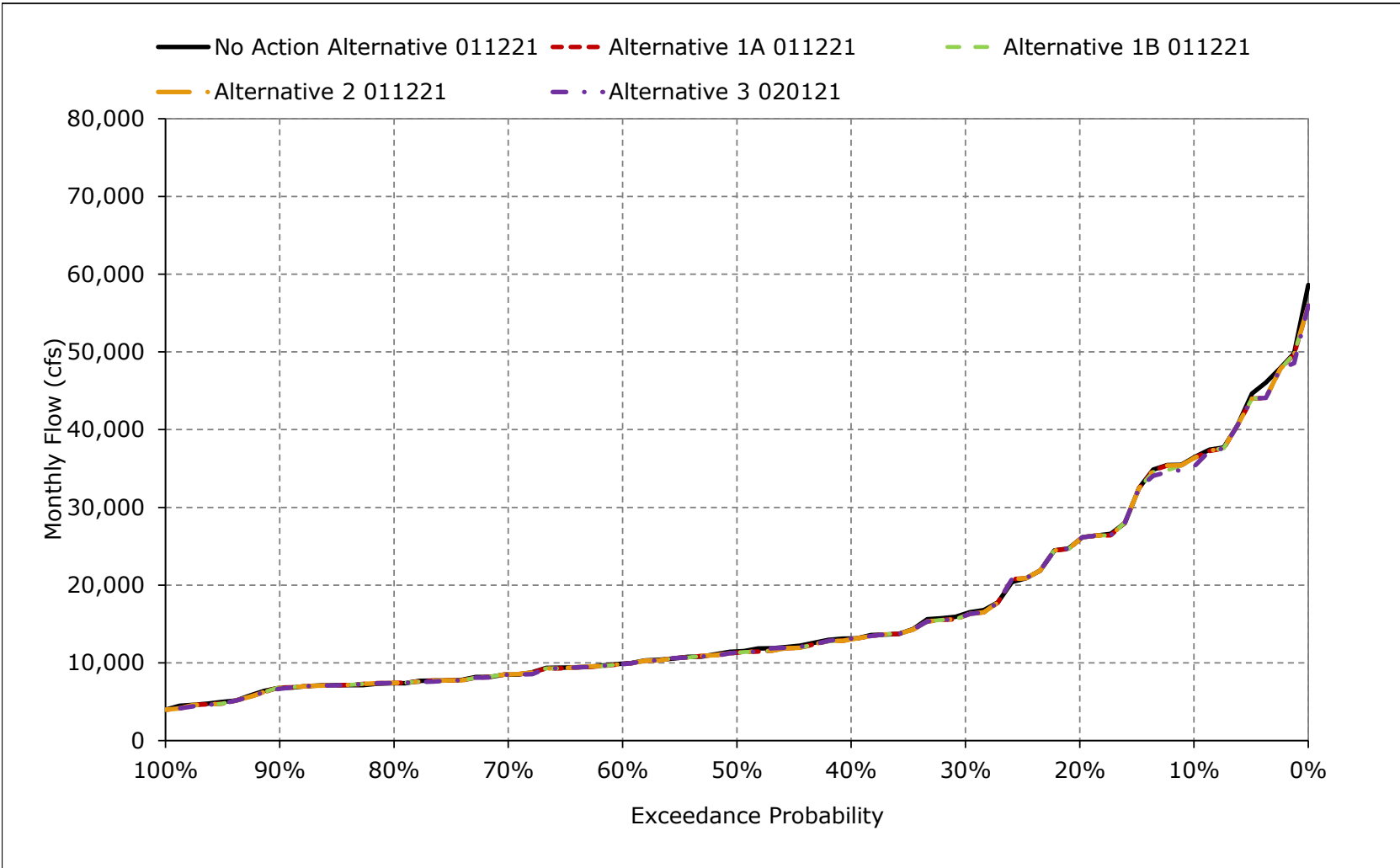
**Figure 5B3-4-12. Sacramento River Flow at Rio Vista, March**



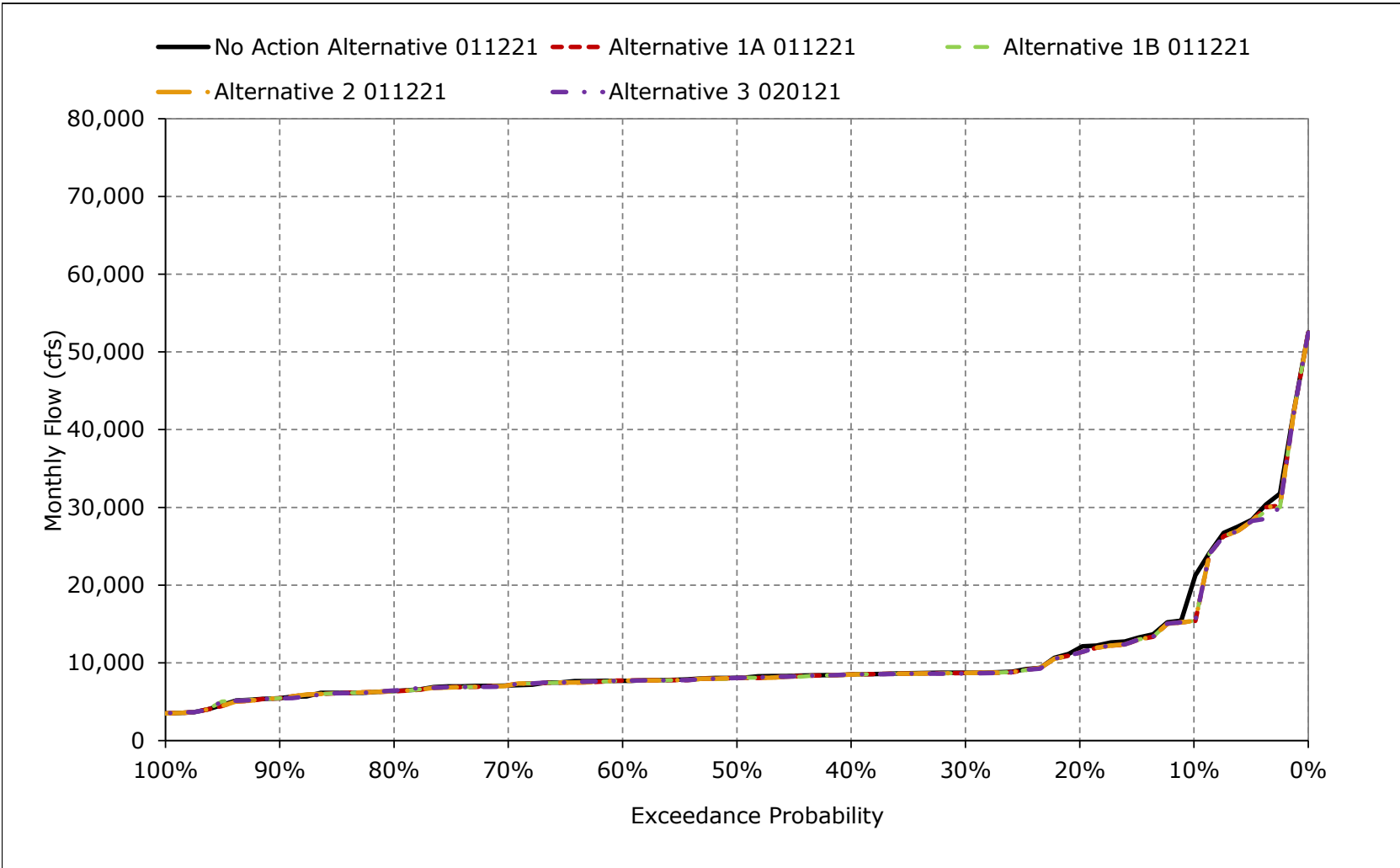
**Figure 5B3-4-13. Sacramento River Flow at Rio Vista, April**



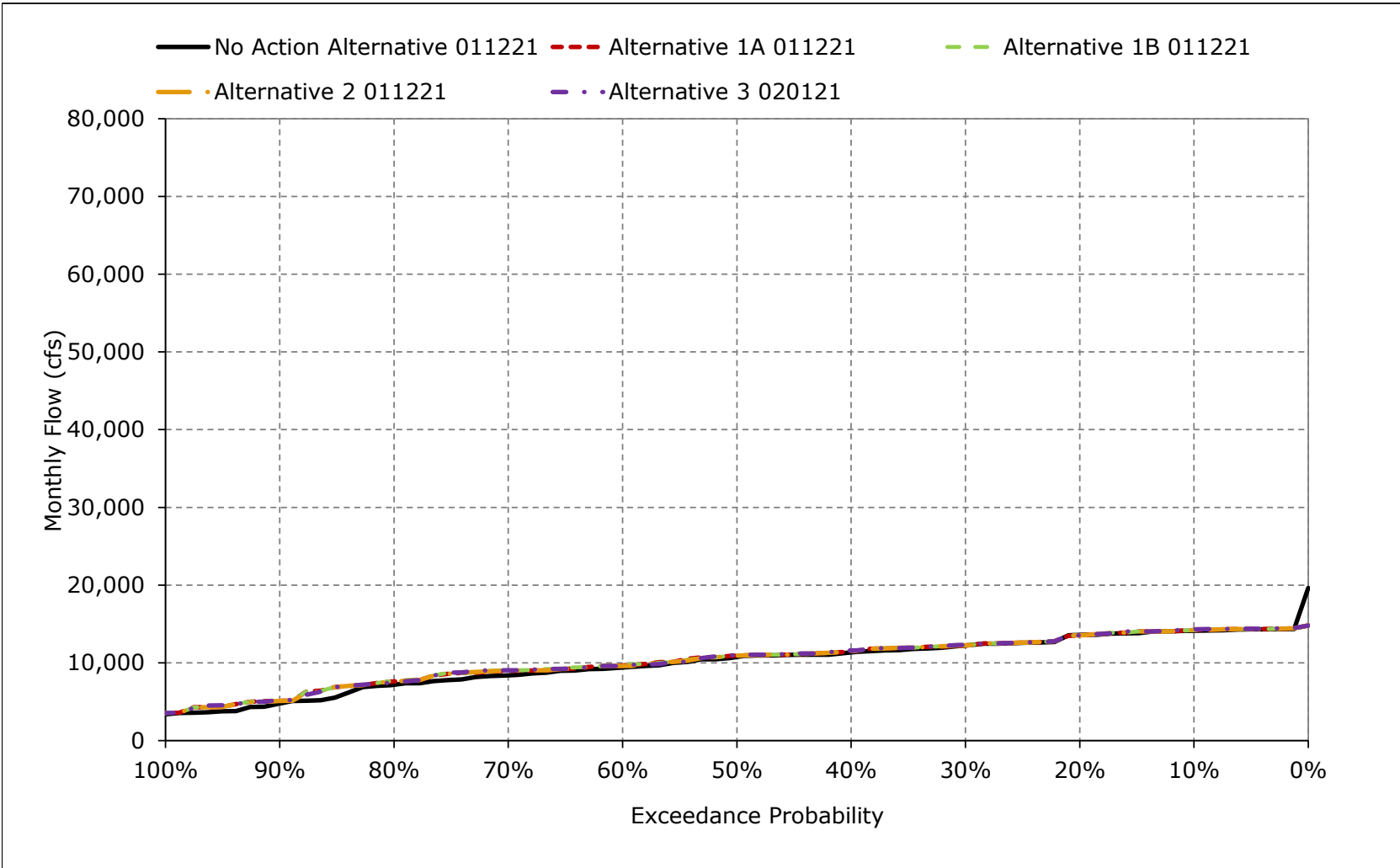
**Figure 5B3-4-14. Sacramento River Flow at Rio Vista, May**



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

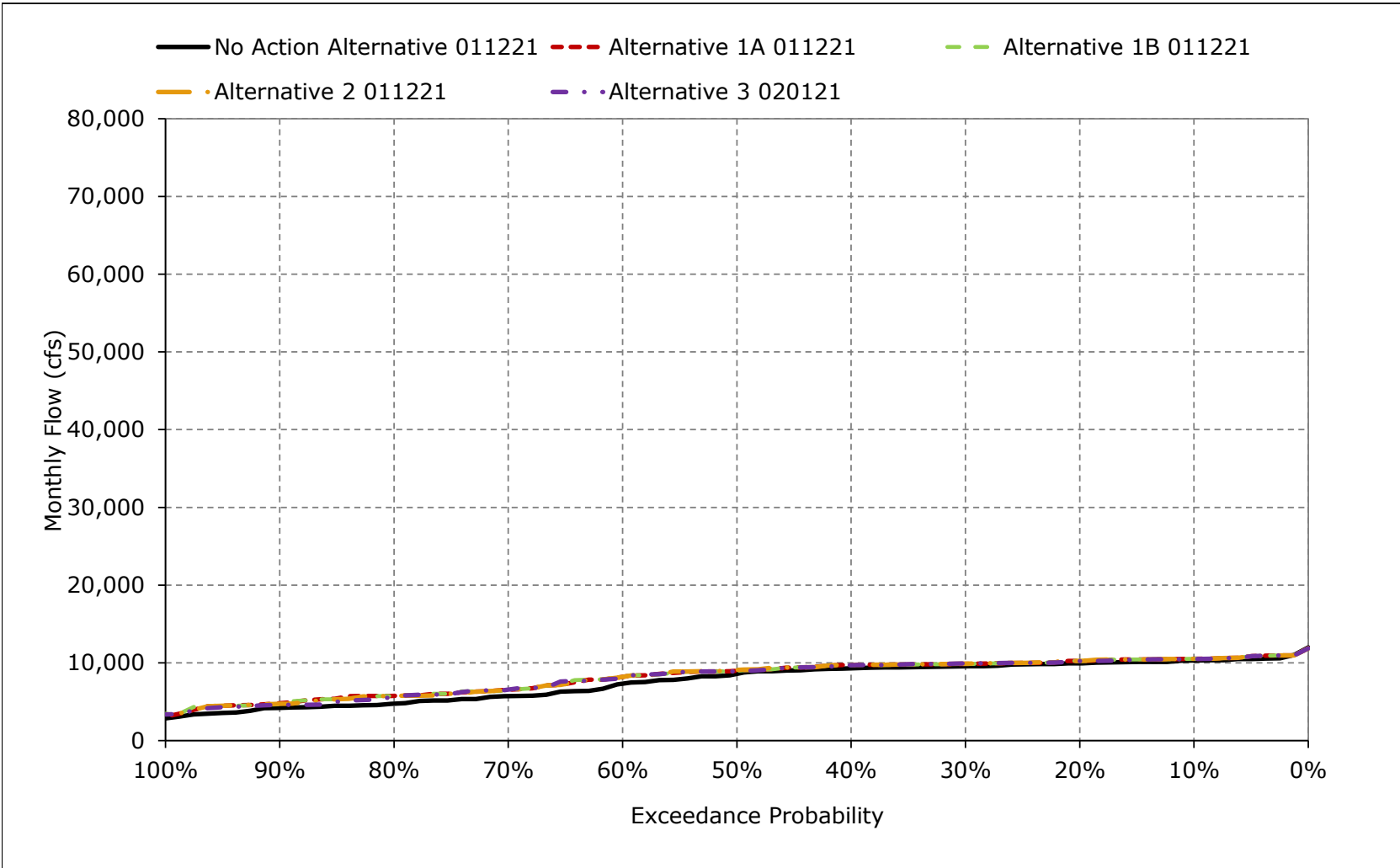


**Figure 5B3-4-16. Sacramento River Flow at Rio Vista, July**

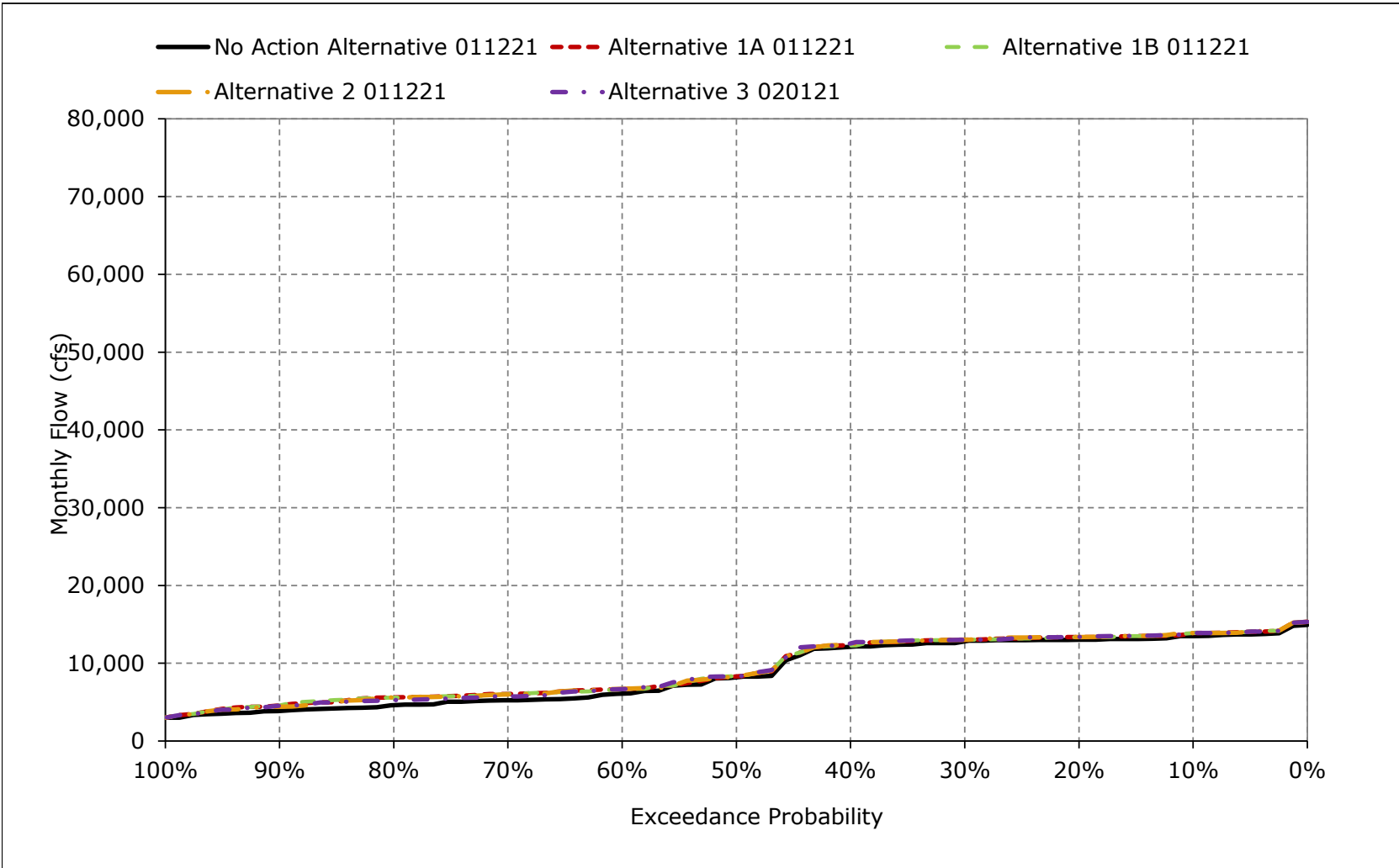




**Figure 5B3-4-17. Sacramento River Flow at Rio Vista, August**



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



**Table 5B3-5-1a. Delta Outflow, No Action Alternative 011221, Monthly Outflow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	8,109	17,617	65,412	100,632	130,297	90,677	70,631	46,461	30,721	11,670	7,291	12,260
20%	7,500	8,758	34,338	67,689	82,418	64,805	50,018	31,452	14,666	9,565	6,732	11,734
30%	7,188	5,544	19,499	47,332	65,665	44,934	29,806	21,027	10,281	8,238	6,322	11,427
40%	6,875	5,130	12,982	28,023	53,139	35,689	26,435	17,467	8,625	8,000	5,860	11,008
50%	5,199	4,970	10,079	22,501	36,246	26,822	20,762	15,340	7,763	8,000	4,044	3,978
60%	4,257	4,646	6,342	15,799	24,758	22,232	15,403	11,049	7,416	6,500	4,000	3,235
70%	4,000	4,500	5,061	11,697	18,193	16,129	12,554	9,453	7,121	5,492	3,745	3,123
80%	4,000	4,500	4,534	8,788	14,699	12,819	11,389	7,592	6,469	5,000	3,520	3,000
90%	4,000	3,996	4,500	7,680	10,040	9,243	9,466	6,157	5,029	4,000	3,500	3,000
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	6,162	8,852	22,274	42,069	54,278	43,259	30,348	21,057	12,913	8,190	5,189	7,378
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	7,958	11,658	26,283	85,174	99,942	80,070	54,824	37,979	23,391	11,761	7,207	12,538
Above Normal (15%)	7,055	8,573	18,791	46,977	62,390	54,780	32,227	23,600	12,011	9,841	6,352	11,369
Below Normal (17%)	6,548	10,240	26,544	21,744	38,228	23,170	21,821	15,309	8,233	7,533	4,029	3,542
Dry (22%)	4,058	7,203	24,672	13,319	22,472	19,468	14,247	9,642	7,046	5,225	3,610	3,094
Critical (15%)	4,083	3,905	8,495	10,608	13,663	11,103	9,539	5,682	5,371	4,019	3,375	3,110

**Table 5B3-5-1b. Delta Outflow, Alternative 1A 011221, Monthly Outflow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	8,203	16,746	63,554	99,957	126,947	88,520	67,883	46,351	30,480	11,827	7,479	12,654
20%	7,890	8,029	34,442	65,295	80,700	63,085	47,414	31,434	14,177	9,672	7,024	12,090
30%	7,604	5,515	19,521	45,523	62,650	42,306	29,920	20,796	10,201	8,322	6,584	11,773
40%	7,234	5,127	12,792	27,342	51,499	35,654	26,466	17,353	8,568	8,000	5,980	11,370
50%	5,794	4,970	9,174	22,121	35,455	25,369	20,794	15,130	7,836	8,000	4,920	4,203
60%	4,884	4,845	6,533	15,518	24,185	20,064	15,428	11,356	7,331	6,816	4,618	3,622
70%	4,484	4,506	5,018	11,284	17,734	15,960	12,773	9,383	7,101	5,501	4,164	3,410
80%	4,316	4,500	4,504	8,680	14,317	12,622	11,398	7,522	6,423	5,000	3,890	3,220
90%	4,000	3,500	4,500	7,696	10,066	9,271	9,479	5,941	4,868	4,051	3,526	3,044
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	6,497	8,696	22,053	41,212	53,318	42,076	30,018	20,915	12,744	8,242	5,529	7,648
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	8,156	11,350	26,294	83,876	98,609	78,939	53,936	37,730	23,117	11,705	7,422	12,847
Above Normal (15%)	7,282	8,405	18,650	45,391	61,153	52,703	31,966	23,425	11,693	9,895	6,605	11,707
Below Normal (17%)	6,725	10,002	25,972	21,156	37,152	21,860	21,611	15,154	8,061	7,766	4,589	3,849
Dry (22%)	4,352	7,434	24,449	12,975	21,883	18,280	14,349	9,619	7,019	5,302	4,132	3,406
Critical (15%)	5,072	3,608	8,100	10,350	13,365	10,858	9,557	5,640	5,371	4,056	3,541	3,117

**Table 5B3-5-1c. Delta Outflow, Alternative 1A 011221 minus No Action Alternative 011221, Monthly Outflow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	93	-871	-1,858	-675	-3,350	-2,156	-2,748	-110	-241	158	189	394
20%	390	-729	104	-2,394	-1,718	-1,720	-2,604	-18	-489	107	292	356
30%	417	-29	23	-1,808	-3,015	-2,628	115	-231	-80	84	262	346
40%	359	-3	-190	-681	-1,640	-35	31	-114	-56	0	120	362
50%	596	0	-905	-380	-791	-1,453	32	-210	73	0	876	225
60%	626	199	191	-281	-573	-2,167	25	308	-85	316	618	387
70%	484	6	-44	-413	-459	-169	219	-69	-20	9	419	287
80%	316	0	-30	-107	-382	-197	9	-71	-46	0	371	220
90%	0	-496	0	16	26	28	13	-216	-161	51	26	44
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	335	-156	-221	-857	-960	-1,183	-331	-142	-169	52	340	269
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	198	-309	11	-1,298	-1,332	-1,131	-888	-249	-273	-56	215	308
Above Normal (15%)	227	-167	-141	-1,585	-1,237	-2,076	-261	-175	-318	53	252	338
Below Normal (17%)	176	-239	-572	-588	-1,076	-1,310	-210	-155	-173	232	560	307
Dry (22%)	294	230	-222	-344	-590	-1,188	103	-23	-27	77	522	312
Critical (15%)	989	-297	-395	-258	-298	-245	18	-42	0	37	166	8

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B3-5-2a. Delta Outflow, No Action Alternative 011221, Monthly Outflow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	8,109	17,617	65,412	100,632	130,297	90,677	70,631	46,461	30,721	11,670	7,291	12,260
20%	7,500	8,758	34,338	67,689	82,418	64,805	50,018	31,452	14,666	9,565	6,732	11,734
30%	7,188	5,544	19,499	47,332	65,665	44,934	29,806	21,027	10,281	8,238	6,322	11,427
40%	6,875	5,130	12,982	28,023	53,139	35,689	26,435	17,467	8,625	8,000	5,860	11,008
50%	5,199	4,970	10,079	22,501	36,246	26,822	20,762	15,340	7,763	8,000	4,044	3,978
60%	4,257	4,646	6,342	15,799	24,758	22,232	15,403	11,049	7,416	6,500	4,000	3,235
70%	4,000	4,500	5,061	11,697	18,193	16,129	12,554	9,453	7,121	5,492	3,745	3,123
80%	4,000	4,500	4,534	8,788	14,699	12,819	11,389	7,592	6,469	5,000	3,520	3,000
90%	4,000	3,996	4,500	7,680	10,040	9,243	9,466	6,157	5,029	4,000	3,500	3,000
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	6,162	8,852	22,274	42,069	54,278	43,259	30,348	21,057	12,913	8,190	5,189	7,378
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	7,958	11,658	26,283	85,174	99,942	80,070	54,824	37,979	23,391	11,761	7,207	12,538
Above Normal (15%)	7,055	8,573	18,791	46,977	62,390	54,780	32,227	23,600	12,011	9,841	6,352	11,369
Below Normal (17%)	6,548	10,240	26,544	21,744	38,228	23,170	21,821	15,309	8,233	7,533	4,029	3,542
Dry (22%)	4,058	7,203	24,672	13,319	22,472	19,468	14,247	9,642	7,046	5,225	3,610	3,094
Critical (15%)	4,083	3,905	8,495	10,608	13,663	11,103	9,539	5,682	5,371	4,019	3,375	3,110

**Table 5B3-5-2b. Delta Outflow, Alternative 1B 011221, Monthly Outflow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	8,203	16,739	63,479	98,695	126,404	88,598	67,887	46,357	30,490	11,827	7,479	12,663
20%	7,875	7,951	35,424	65,180	80,702	63,065	47,414	31,436	14,176	9,676	7,038	12,025
30%	7,578	5,461	18,747	45,486	63,255	42,216	30,054	20,796	10,201	8,310	6,574	11,715
40%	7,125	5,130	13,043	27,343	51,354	35,651	26,466	17,354	8,554	8,000	5,980	11,319
50%	5,582	4,991	9,252	22,136	35,486	25,293	20,791	15,199	7,779	8,000	4,949	4,185
60%	4,902	4,845	6,437	15,411	24,185	20,062	15,411	11,335	7,375	6,853	4,637	3,664
70%	4,483	4,607	5,044	11,273	17,735	16,006	12,851	9,351	7,100	5,510	4,201	3,429
80%	4,273	4,500	4,505	8,677	14,491	12,622	11,398	7,568	6,423	5,000	3,900	3,236
90%	4,000	3,500	4,500	7,702	10,082	9,270	9,479	5,937	4,868	4,051	3,509	3,044
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	6,464	8,752	22,209	41,201	53,309	42,062	29,981	20,881	12,728	8,251	5,531	7,637
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	8,134	11,349	26,330	83,796	98,400	78,924	53,806	37,649	23,088	11,706	7,419	12,863
Above Normal (15%)	7,222	8,490	18,787	45,483	61,145	52,758	31,965	23,403	11,702	9,896	6,597	11,642
Below Normal (17%)	6,766	10,242	26,087	21,179	37,297	21,868	21,631	15,164	8,048	7,795	4,616	3,857
Dry (22%)	4,300	7,411	24,937	12,964	21,972	18,263	14,351	9,594	6,993	5,315	4,128	3,357
Critical (15%)	4,980	3,661	8,084	10,345	13,463	10,755	9,563	5,630	5,370	4,058	3,549	3,141

**Table 5B3-5-2c. Delta Outflow, Alternative 1B 011221 minus No Action Alternative 011221, Monthly Outflow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	93	-878	-1,933	-1,937	-3,893	-2,078	-2,744	-105	-230	158	189	403
20%	375	-807	1,086	-2,509	-1,716	-1,741	-2,604	-16	-490	112	306	291
30%	390	-83	-752	-1,845	-2,410	-2,718	248	-231	-80	73	252	287
40%	250	0	62	-681	-1,784	-38	31	-113	-71	0	120	311
50%	383	20	-827	-365	-760	-1,529	30	-140	15	0	905	207
60%	644	198	95	-388	-573	-2,170	8	286	-40	353	637	428
70%	483	107	-18	-425	-458	-123	297	-102	-21	18	456	305
80%	273	0	-29	-111	-208	-197	9	-25	-46	0	380	236
90%	0	-496	0	22	42	27	13	-220	-161	51	9	44
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	302	-100	-66	-868	-969	-1,197	-367	-176	-184	61	342	259
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	176	-309	47	-1,378	-1,542	-1,146	-1,018	-330	-302	-55	211	325
Above Normal (15%)	167	-83	-3	-1,493	-1,245	-2,022	-262	-197	-309	55	245	273
Below Normal (17%)	217	2	-457	-565	-931	-1,302	-190	-146	-185	262	587	314
Dry (22%)	242	208	265	-355	-500	-1,205	105	-48	-53	90	518	263
Critical (15%)	897	-244	-411	-262	-200	-349	24	-52	0	38	174	31

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B3-5-3a. Delta Outflow, No Action Alternative 011221, Monthly Outflow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	8,109	17,617	65,412	100,632	130,297	90,677	70,631	46,461	30,721	11,670	7,291	12,260
20%	7,500	8,758	34,338	67,689	82,418	64,805	50,018	31,452	14,666	9,565	6,732	11,734
30%	7,188	5,544	19,499	47,332	65,665	44,934	29,806	21,027	10,281	8,238	6,322	11,427
40%	6,875	5,130	12,982	28,023	53,139	35,689	26,435	17,467	8,625	8,000	5,860	11,008
50%	5,199	4,970	10,079	22,501	36,246	26,822	20,762	15,340	7,763	8,000	4,044	3,978
60%	4,257	4,646	6,342	15,799	24,758	22,232	15,403	11,049	7,416	6,500	4,000	3,235
70%	4,000	4,500	5,061	11,697	18,193	16,129	12,554	9,453	7,121	5,492	3,745	3,123
80%	4,000	4,500	4,534	8,788	14,699	12,819	11,389	7,592	6,469	5,000	3,520	3,000
90%	4,000	3,996	4,500	7,680	10,040	9,243	9,466	6,157	5,029	4,000	3,500	3,000
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	6,162	8,852	22,274	42,069	54,278	43,259	30,348	21,057	12,913	8,190	5,189	7,378
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	7,958	11,658	26,283	85,174	99,942	80,070	54,824	37,979	23,391	11,761	7,207	12,538
Above Normal (15%)	7,055	8,573	18,791	46,977	62,390	54,780	32,227	23,600	12,011	9,841	6,352	11,369
Below Normal (17%)	6,548	10,240	26,544	21,744	38,228	23,170	21,821	15,309	8,233	7,533	4,029	3,542
Dry (22%)	4,058	7,203	24,672	13,319	22,472	19,468	14,247	9,642	7,046	5,225	3,610	3,094
Critical (15%)	4,083	3,905	8,495	10,608	13,663	11,103	9,539	5,682	5,371	4,019	3,375	3,110

**Table 5B3-5-3b. Delta Outflow, Alternative 2 011221, Monthly Outflow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	8,203	16,728	63,555	98,993	129,090	89,832	67,883	46,364	30,490	11,827	7,479	12,663
20%	7,890	8,060	34,439	65,294	80,187	63,385	47,417	31,434	14,195	9,675	7,037	12,095
30%	7,554	5,326	19,526	45,523	62,936	42,355	29,922	20,796	10,201	8,322	6,603	11,773
40%	7,143	5,041	12,792	27,342	51,517	35,656	26,466	17,354	8,568	8,000	6,207	11,370
50%	5,658	4,949	9,197	22,121	35,455	25,303	20,794	15,130	7,836	8,000	4,920	4,372
60%	4,825	4,762	6,600	15,518	24,185	20,064	15,410	11,356	7,331	6,816	4,715	3,621
70%	4,480	4,507	5,015	11,285	17,735	15,960	12,773	9,383	7,100	5,500	4,224	3,367
80%	4,361	4,500	4,505	8,680	14,491	12,622	11,398	7,522	6,422	5,000	3,890	3,189
90%	4,000	3,500	4,500	7,696	10,067	9,269	9,479	5,941	4,868	4,051	3,616	3,084
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	6,486	8,654	22,067	41,231	53,366	42,152	30,057	20,915	12,745	8,243	5,547	7,663
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	8,124	11,352	26,304	83,916	98,706	79,163	54,055	37,733	23,123	11,707	7,461	12,901
Above Normal (15%)	7,286	8,413	18,649	45,391	61,203	52,727	31,968	23,412	11,693	9,895	6,619	11,710
Below Normal (17%)	6,807	9,939	26,003	21,178	37,109	21,868	21,620	15,159	8,061	7,768	4,605	3,898
Dry (22%)	4,344	7,253	24,464	12,975	21,887	18,346	14,347	9,619	7,015	5,301	4,128	3,370
Critical (15%)	4,977	3,651	8,116	10,369	13,475	10,763	9,557	5,639	5,370	4,056	3,557	3,098

**Table 5B3-5-3c. Delta Outflow, Alternative 2 011221 minus No Action Alternative 011221, Monthly Outflow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	93	-889	-1,857	-1,639	-1,207	-845	-2,748	-97	-231	158	189	403
20%	390	-698	101	-2,395	-2,231	-1,420	-2,601	-18	-471	110	305	361
30%	367	-218	27	-1,808	-2,728	-2,579	116	-231	-80	84	281	346
40%	268	-89	-190	-682	-1,622	-33	31	-113	-56	0	347	362
50%	459	-22	-882	-380	-791	-1,519	32	-210	73	0	876	395
60%	567	115	258	-281	-573	-2,168	7	308	-85	316	715	386
70%	480	7	-47	-413	-458	-169	219	-69	-21	8	479	243
80%	361	0	-29	-107	-209	-197	9	-71	-47	0	371	189
90%	0	-496	0	16	27	26	13	-216	-161	51	116	84
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	324	-198	-208	-838	-912	-1,106	-291	-142	-168	53	358	285
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	166	-306	21	-1,258	-1,236	-907	-769	-246	-268	-54	254	363
Above Normal (15%)	232	-160	-142	-1,586	-1,187	-2,053	-259	-187	-318	54	267	341
Below Normal (17%)	258	-301	-541	-566	-1,119	-1,301	-201	-150	-173	234	576	356
Dry (22%)	286	50	-208	-343	-585	-1,122	100	-23	-31	76	518	277
Critical (15%)	894	-254	-379	-239	-188	-341	18	-43	-1	36	182	-12

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B3-5-4a. Delta Outflow, No Action Alternative 011221, Monthly Outflow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	8,109	17,617	65,412	100,632	130,297	90,677	70,631	46,461	30,721	11,670	7,291	12,260
20%	7,500	8,758	34,338	67,689	82,418	64,805	50,018	31,452	14,666	9,565	6,732	11,734
30%	7,188	5,544	19,499	47,332	65,665	44,934	29,806	21,027	10,281	8,238	6,322	11,427
40%	6,875	5,130	12,982	28,023	53,139	35,689	26,435	17,467	8,625	8,000	5,860	11,008
50%	5,199	4,970	10,079	22,501	36,246	26,822	20,762	15,340	7,763	8,000	4,044	3,978
60%	4,257	4,646	6,342	15,799	24,758	22,232	15,403	11,049	7,416	6,500	4,000	3,235
70%	4,000	4,500	5,061	11,697	18,193	16,129	12,554	9,453	7,121	5,492	3,745	3,123
80%	4,000	4,500	4,534	8,788	14,699	12,819	11,389	7,592	6,469	5,000	3,520	3,000
90%	4,000	3,996	4,500	7,680	10,040	9,243	9,466	6,157	5,029	4,000	3,500	3,000
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	6,162	8,852	22,274	42,069	54,278	43,259	30,348	21,057	12,913	8,190	5,189	7,378
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	7,958	11,658	26,283	85,174	99,942	80,070	54,824	37,979	23,391	11,761	7,207	12,538
Above Normal (15%)	7,055	8,573	18,791	46,977	62,390	54,780	32,227	23,600	12,011	9,841	6,352	11,369
Below Normal (17%)	6,548	10,240	26,544	21,744	38,228	23,170	21,821	15,309	8,233	7,533	4,029	3,542
Dry (22%)	4,058	7,203	24,672	13,319	22,472	19,468	14,247	9,642	7,046	5,225	3,610	3,094
Critical (15%)	4,083	3,905	8,495	10,608	13,663	11,103	9,539	5,682	5,371	4,019	3,375	3,110

**Table 5B3-5-4b. Delta Outflow, Alternative 3 020121, Monthly Outflow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	8,195	16,727	63,303	99,751	126,603	88,602	67,900	46,366	30,476	11,846	7,479	12,631
20%	7,885	7,958	36,784	65,138	81,322	62,120	47,415	31,447	14,212	9,673	7,038	12,054
30%	7,500	5,642	19,110	45,494	61,756	42,367	30,023	20,798	10,108	8,355	6,608	11,760
40%	7,125	5,092	12,946	27,343	51,341	35,419	26,466	17,371	8,550	8,000	5,980	11,330
50%	5,483	4,936	9,227	22,130	35,490	25,366	20,802	15,234	7,722	8,000	4,920	4,260
60%	4,771	4,647	6,521	16,035	24,186	20,065	15,389	11,335	7,338	6,860	4,521	3,631
70%	4,438	4,500	5,128	11,230	17,743	16,138	12,882	8,995	7,100	5,512	4,019	3,254
80%	4,239	4,500	4,533	8,624	14,317	12,623	11,381	7,577	6,423	5,000	3,892	3,122
90%	4,000	3,516	4,500	7,789	9,968	9,276	9,610	5,931	5,087	4,052	3,500	3,000
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	6,445	8,796	22,231	41,285	53,410	41,983	29,909	20,860	12,715	8,274	5,481	7,609
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	8,126	11,349	26,318	83,903	98,579	78,582	53,555	37,634	23,049	11,708	7,427	12,814
Above Normal (15%)	7,153	8,772	18,959	45,554	61,654	52,582	31,990	23,401	11,706	9,948	6,566	11,745
Below Normal (17%)	6,896	10,321	26,559	21,229	37,254	21,846	21,671	15,227	8,023	7,826	4,583	3,890
Dry (22%)	4,293	7,308	24,585	13,078	21,982	18,434	14,347	9,497	7,006	5,364	4,004	3,239
Critical (15%)	4,796	3,741	8,068	10,385	13,288	10,902	9,551	5,594	5,368	4,046	3,445	3,088

**Table 5B3-5-4c. Delta Outflow, Alternative 3 020121 minus No Action Alternative 011221, Monthly Outflow (cfs)**

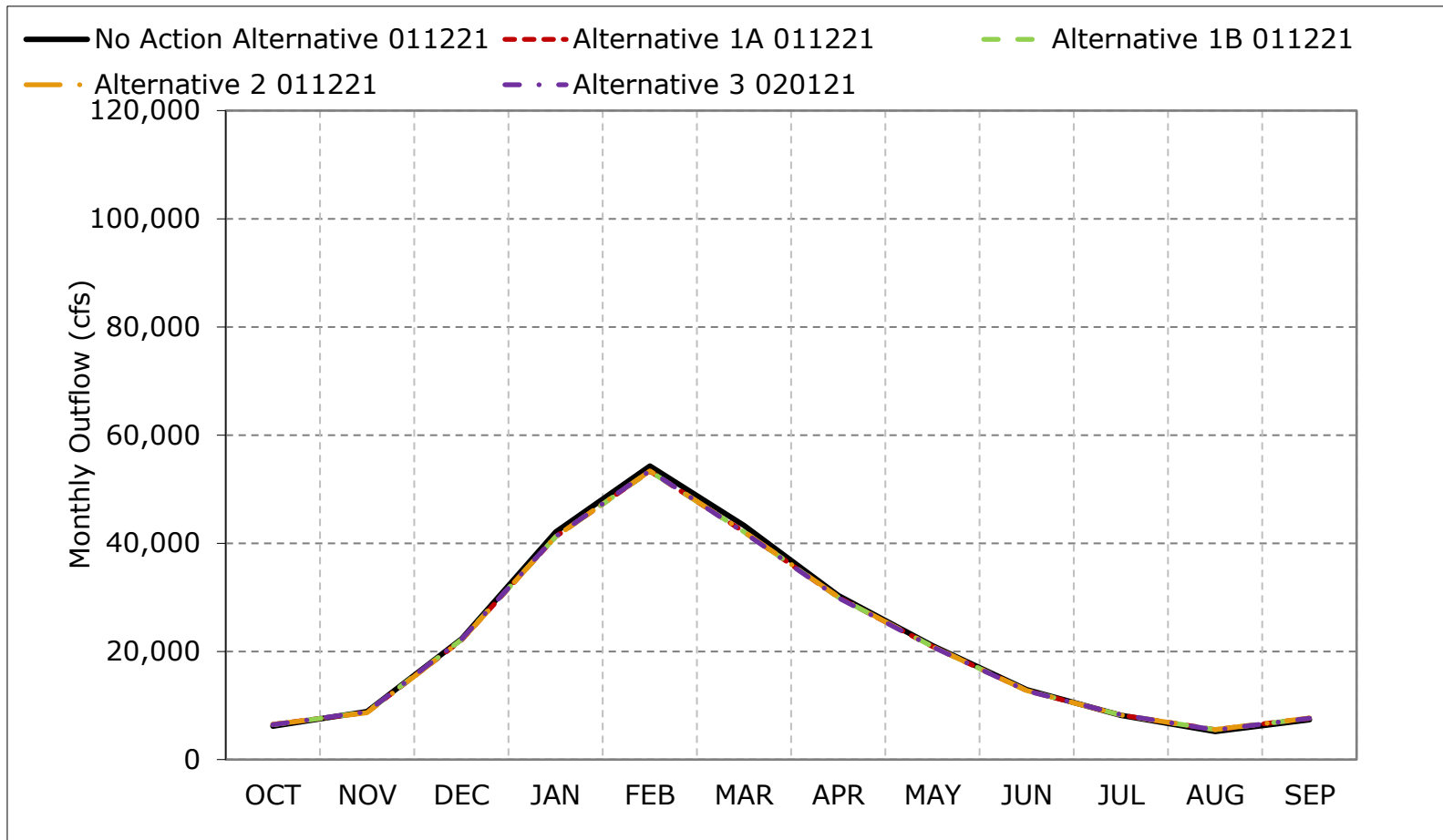
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	86	-890	-2,109	-881	-3,694	-2,075	-2,731	-95	-244	177	189	371
20%	385	-801	2,446	-2,551	-1,095	-2,686	-2,603	-5	-454	108	306	319
30%	312	98	-389	-1,838	-3,909	-2,567	218	-230	-173	117	286	332
40%	250	-38	-36	-680	-1,798	-270	32	-96	-75	0	120	322
50%	285	-34	-852	-370	-757	-1,456	40	-106	-41	0	876	282
60%	514	0	179	236	-572	-2,167	-14	286	-77	360	521	395
70%	438	0	67	-467	-450	9	328	-458	-21	20	274	130
80%	239	0	-1	-164	-383	-196	-8	-15	-46	0	373	122
90%	0	-481	0	109	-72	33	144	-226	58	52	0	0
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	283	-56	-43	-785	-869	-1,276	-439	-197	-198	83	292	231
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	168	-309	34	-1,271	-1,363	-1,488	-1,270	-345	-341	-53	220	276
Above Normal (15%)	99	200	168	-1,422	-736	-2,198	-237	-199	-306	107	213	376
Below Normal (17%)	347	80	15	-515	-974	-1,324	-150	-82	-211	293	554	347
Dry (22%)	235	105	-86	-241	-491	-1,034	101	-145	-40	139	394	146
Critical (15%)	713	-164	-427	-223	-375	-201	11	-89	-3	27	70	-22

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

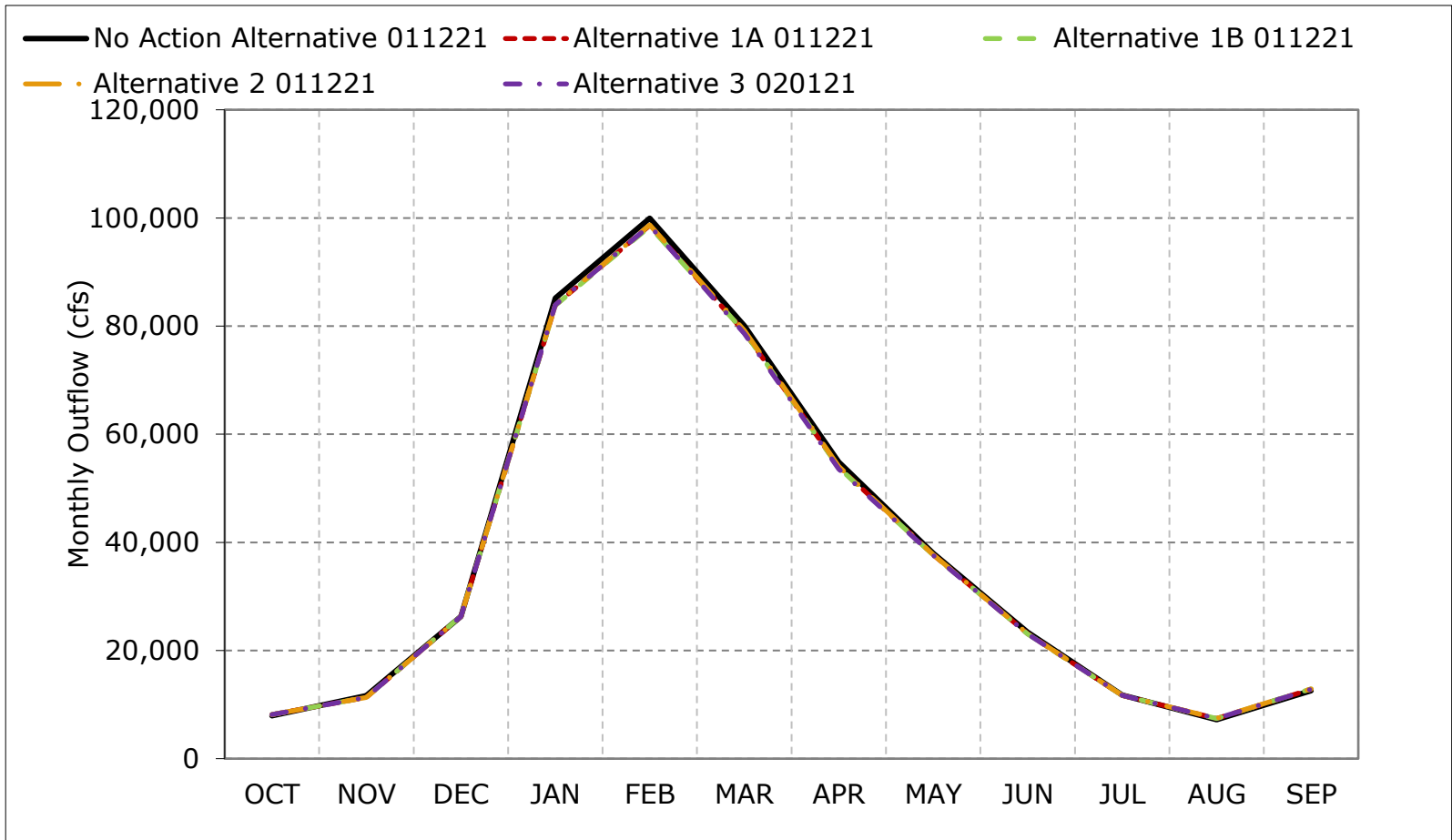
**Figure 5B3-5-1. Delta Outflow, Long-Term Average Outflow**



\*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.

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

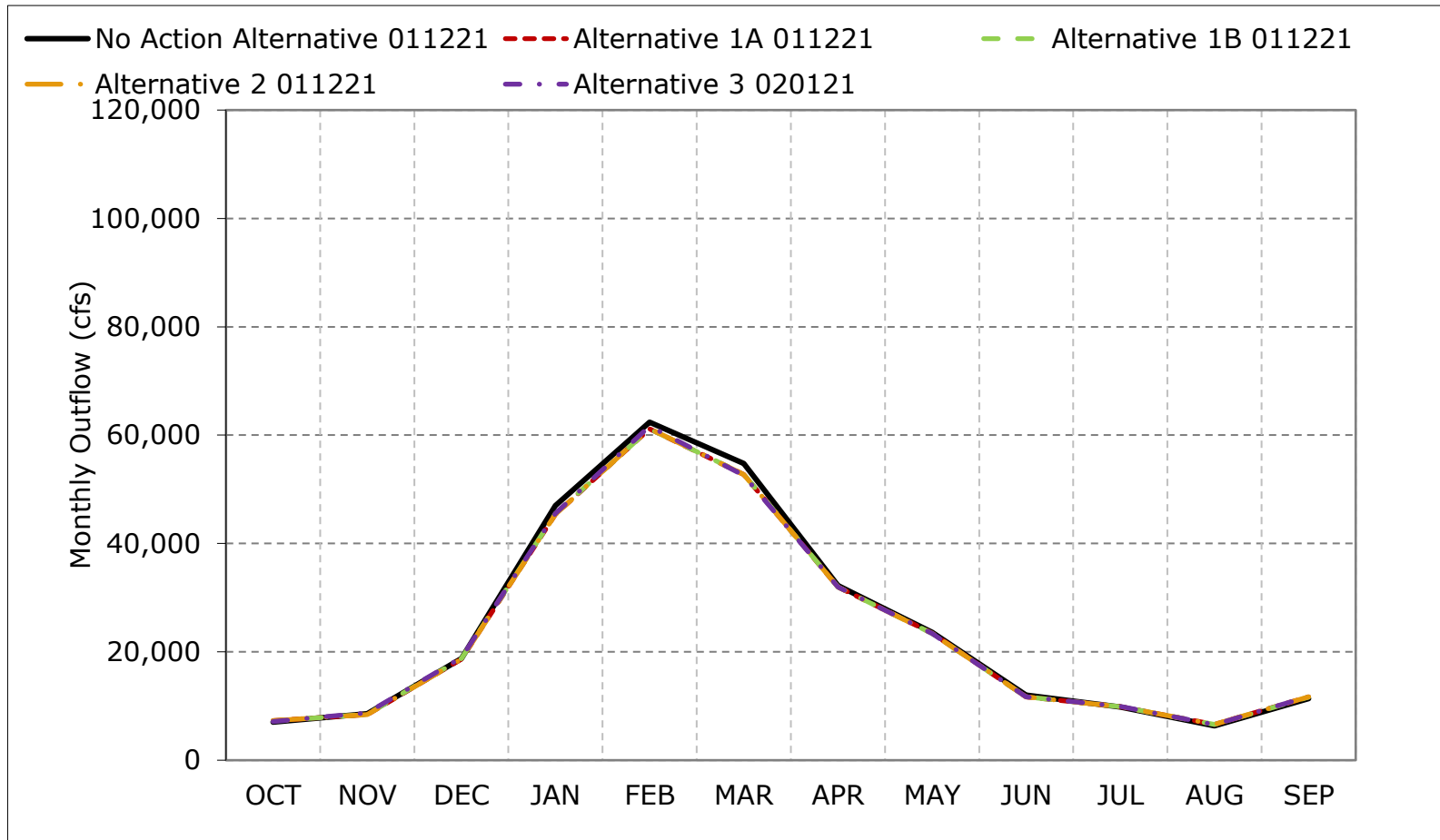


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with calendar year - year type sorting.



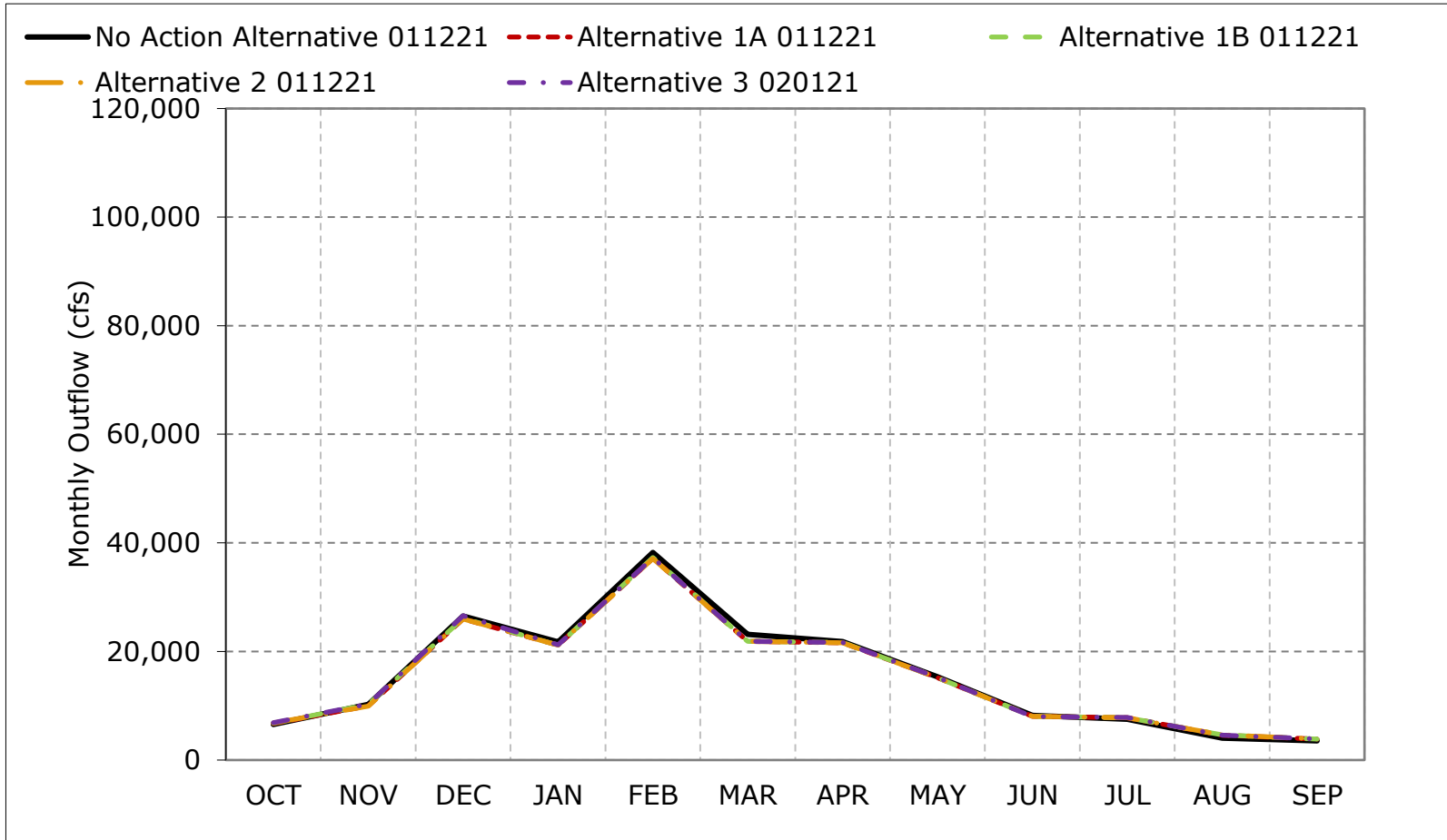
**Figure 5B3-5-3. Delta Outflow, Above Normal Year Average Outflow**



\*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.

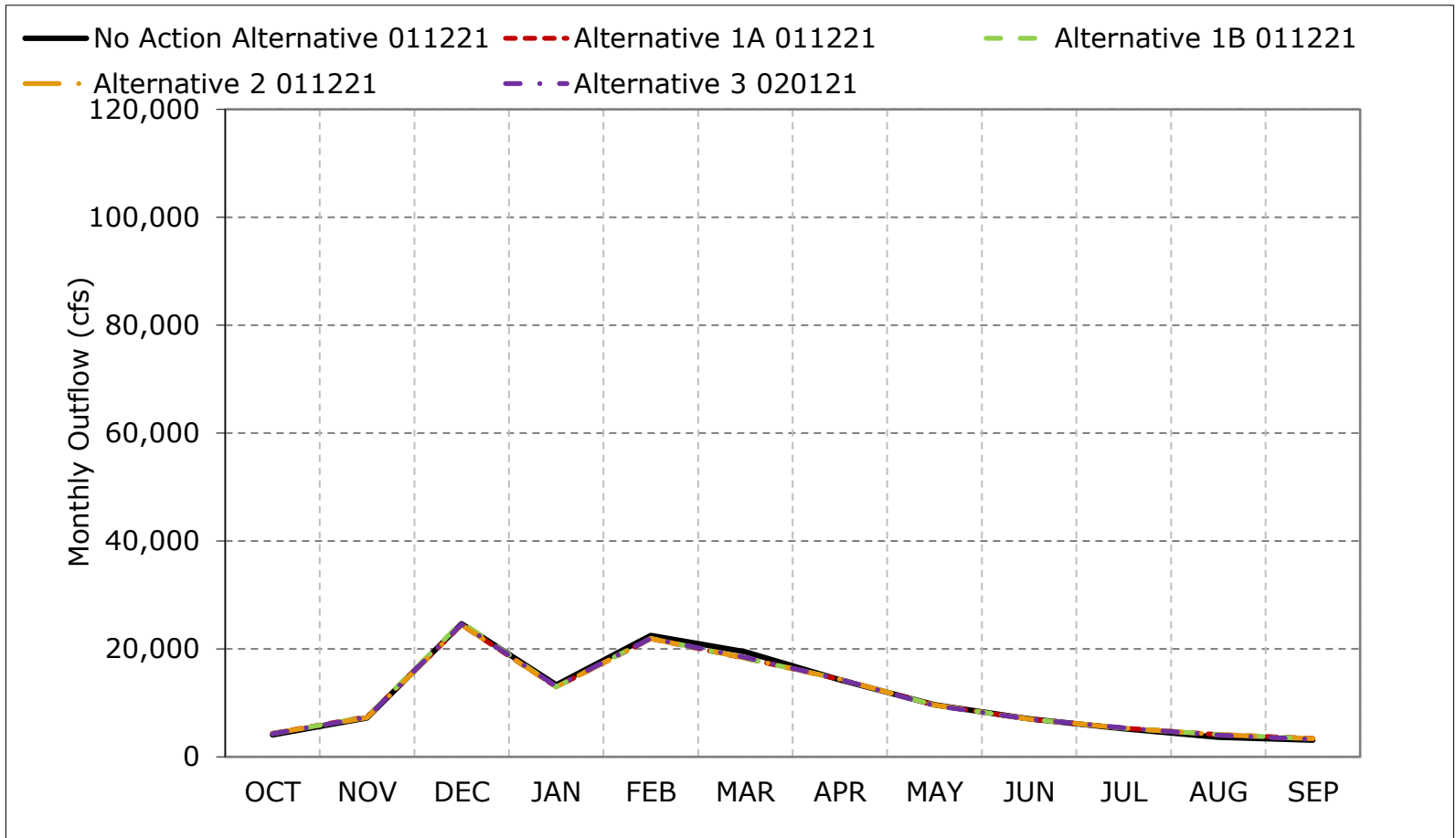
**Figure 5B3-5-4. Delta Outflow, Below Normal Year Average Outflow**



\*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.

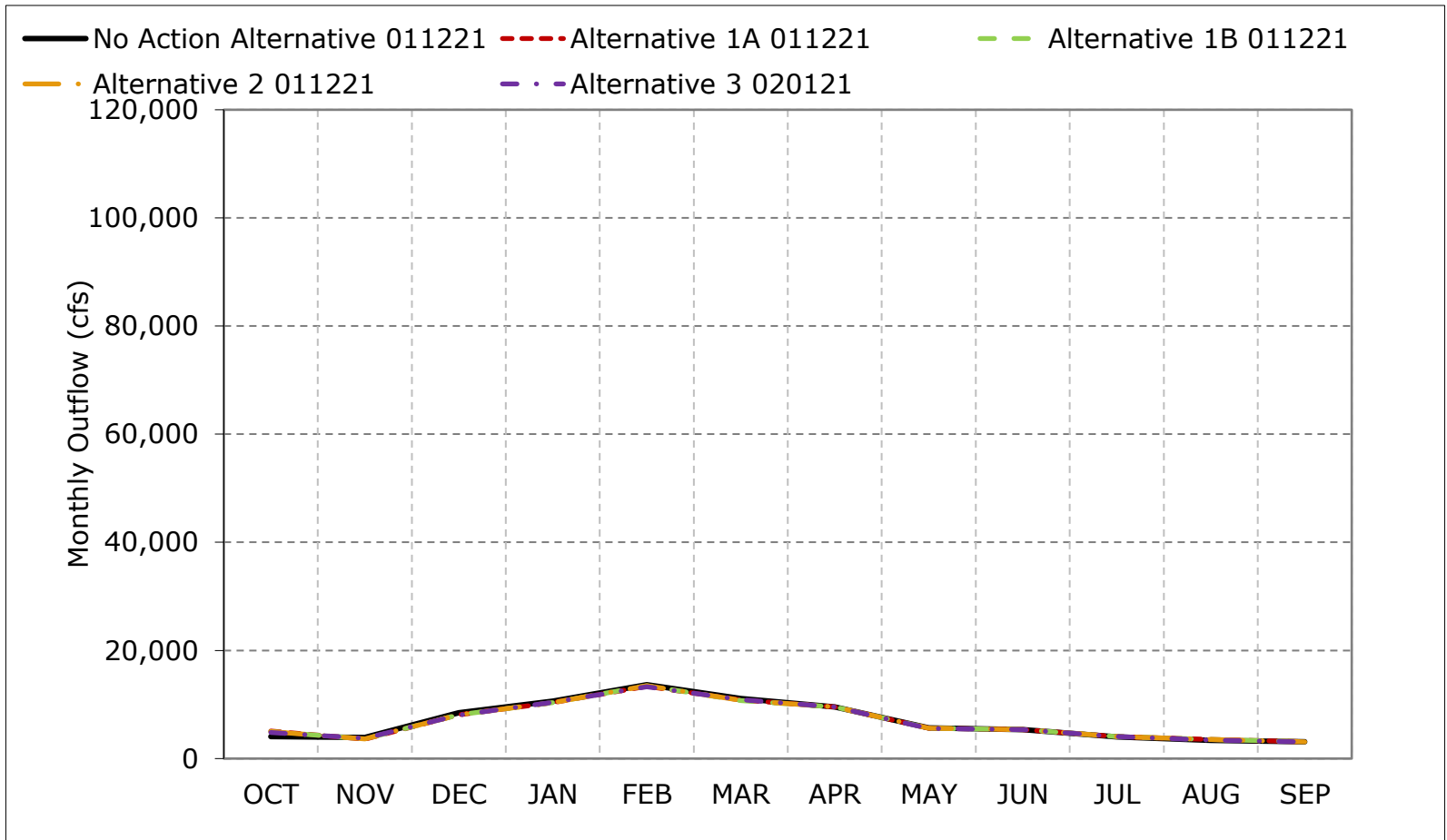
**Figure 5B3-5-5. Delta Outflow, Dry Year Average Outflow**



\*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.

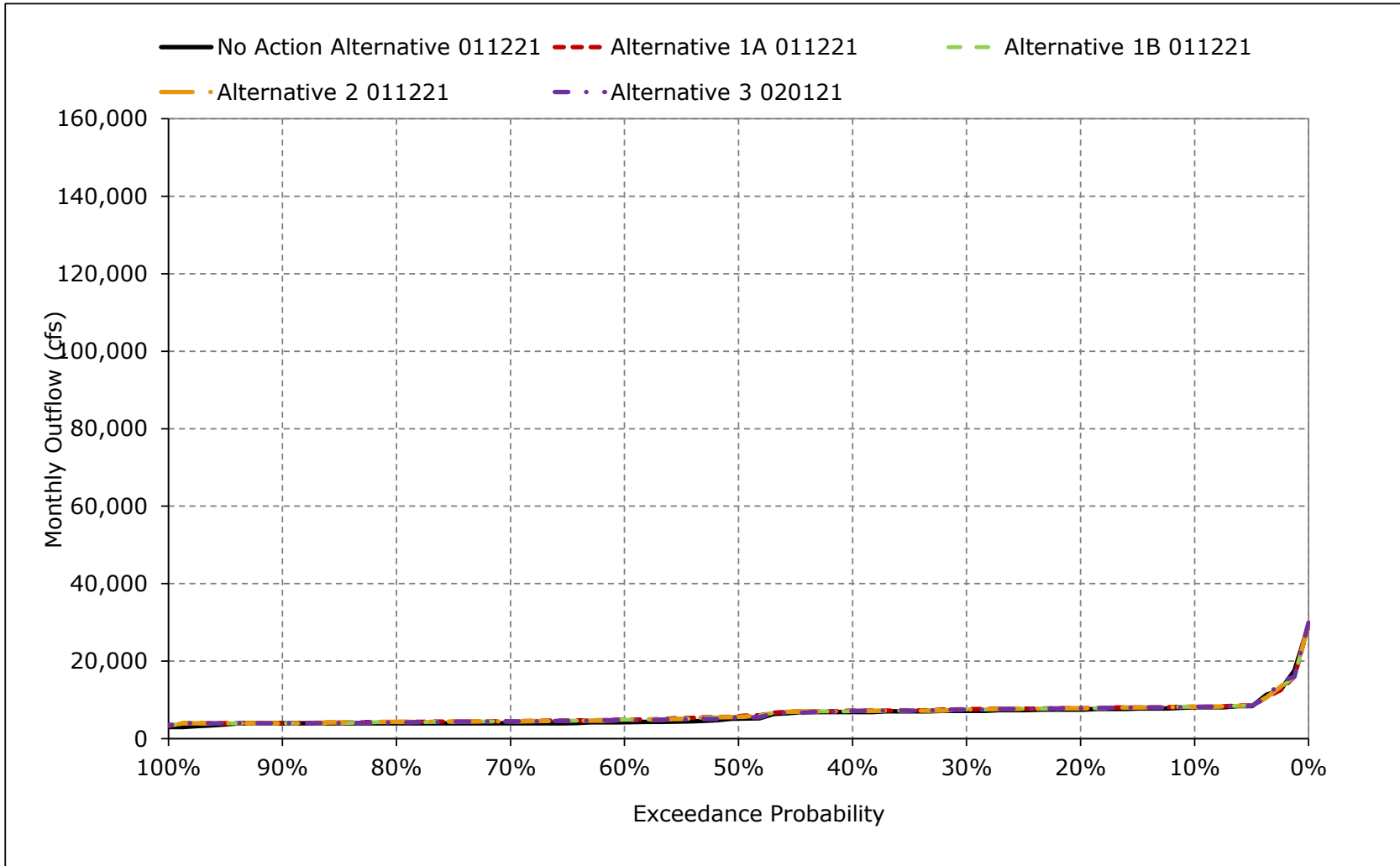
**Figure 5B3-5-6. Delta Outflow, Critical Year Average Outflow**



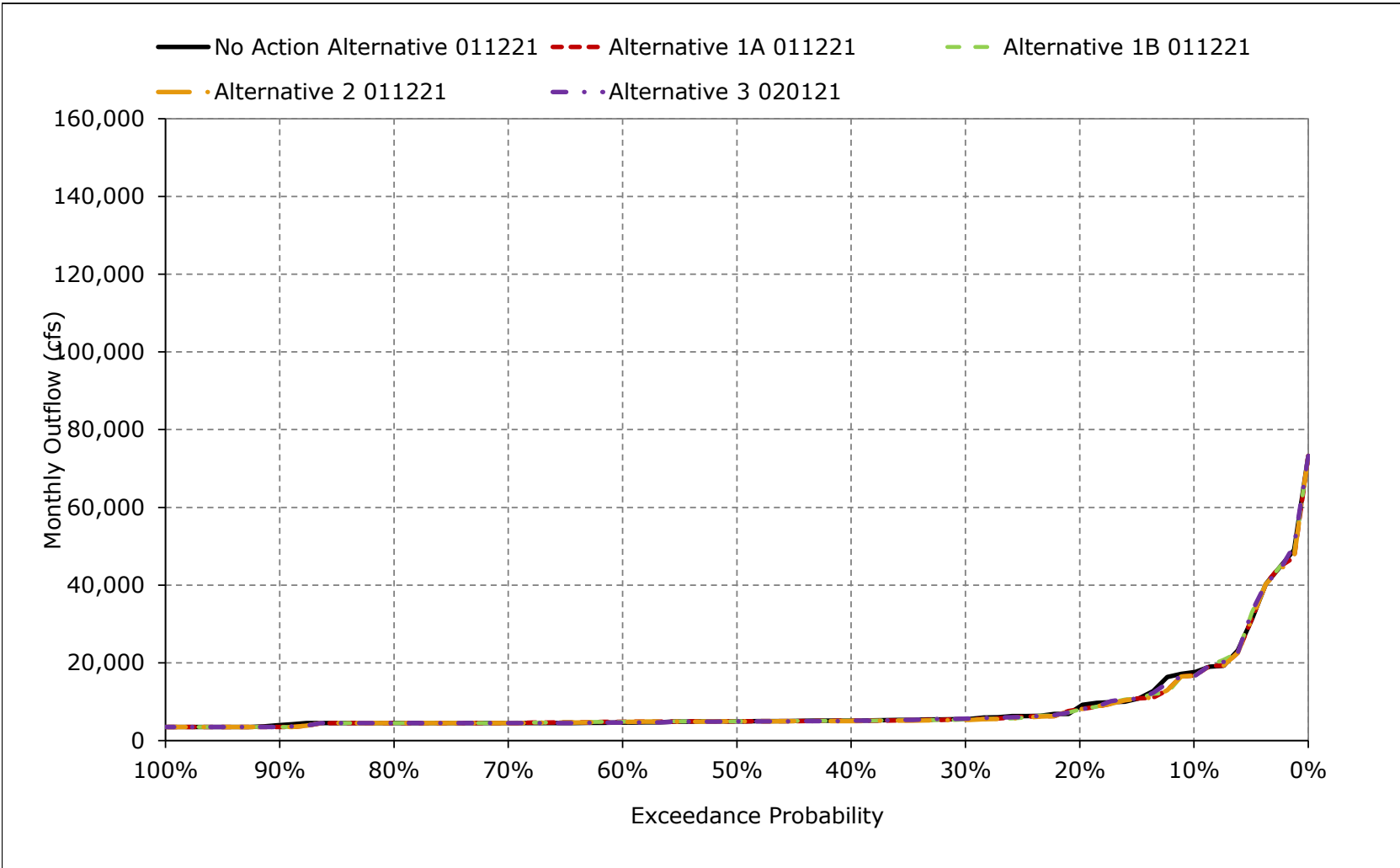
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with calendar year - year type sorting.

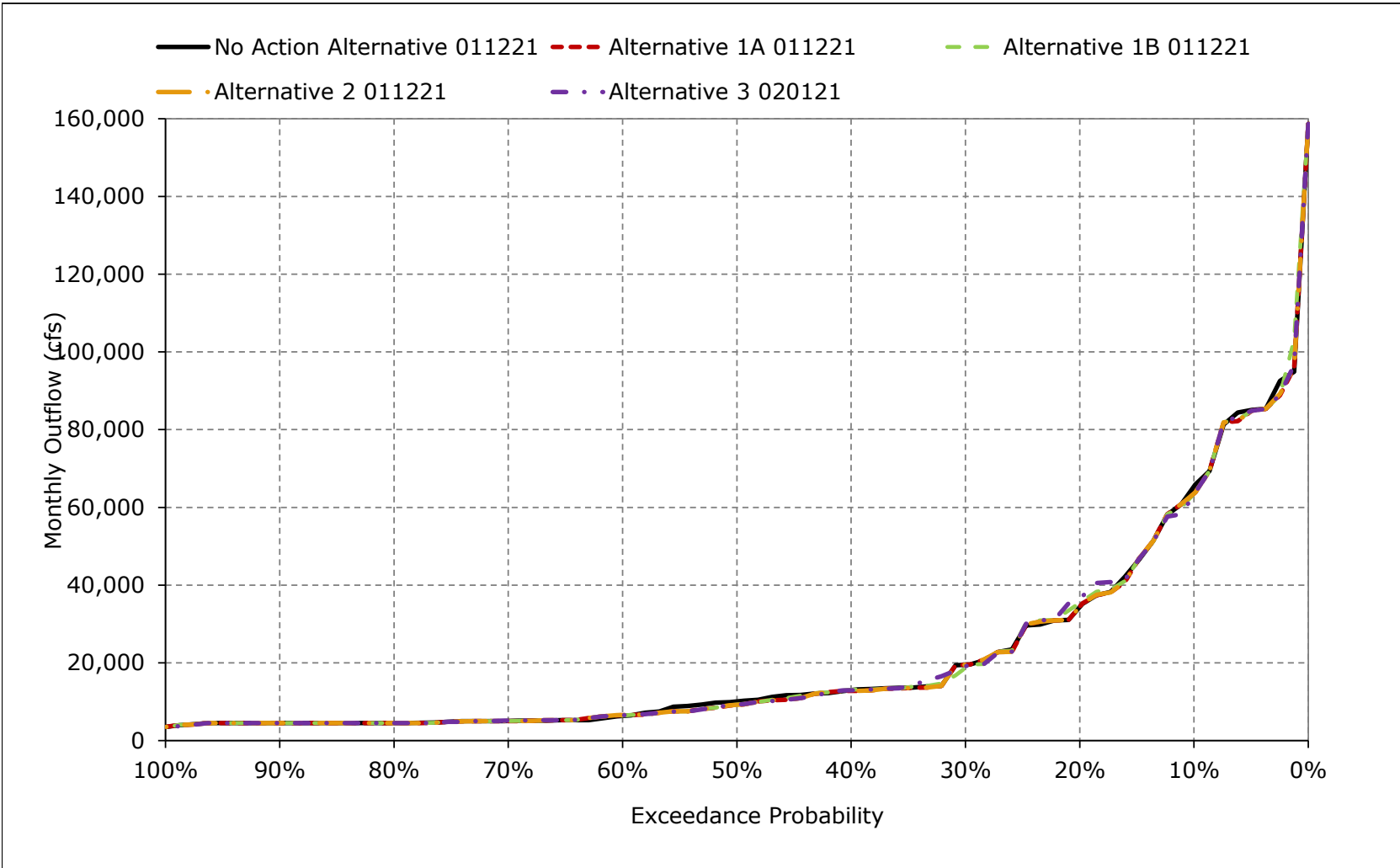
**Figure 5B3-5-7. Delta Outflow, October**



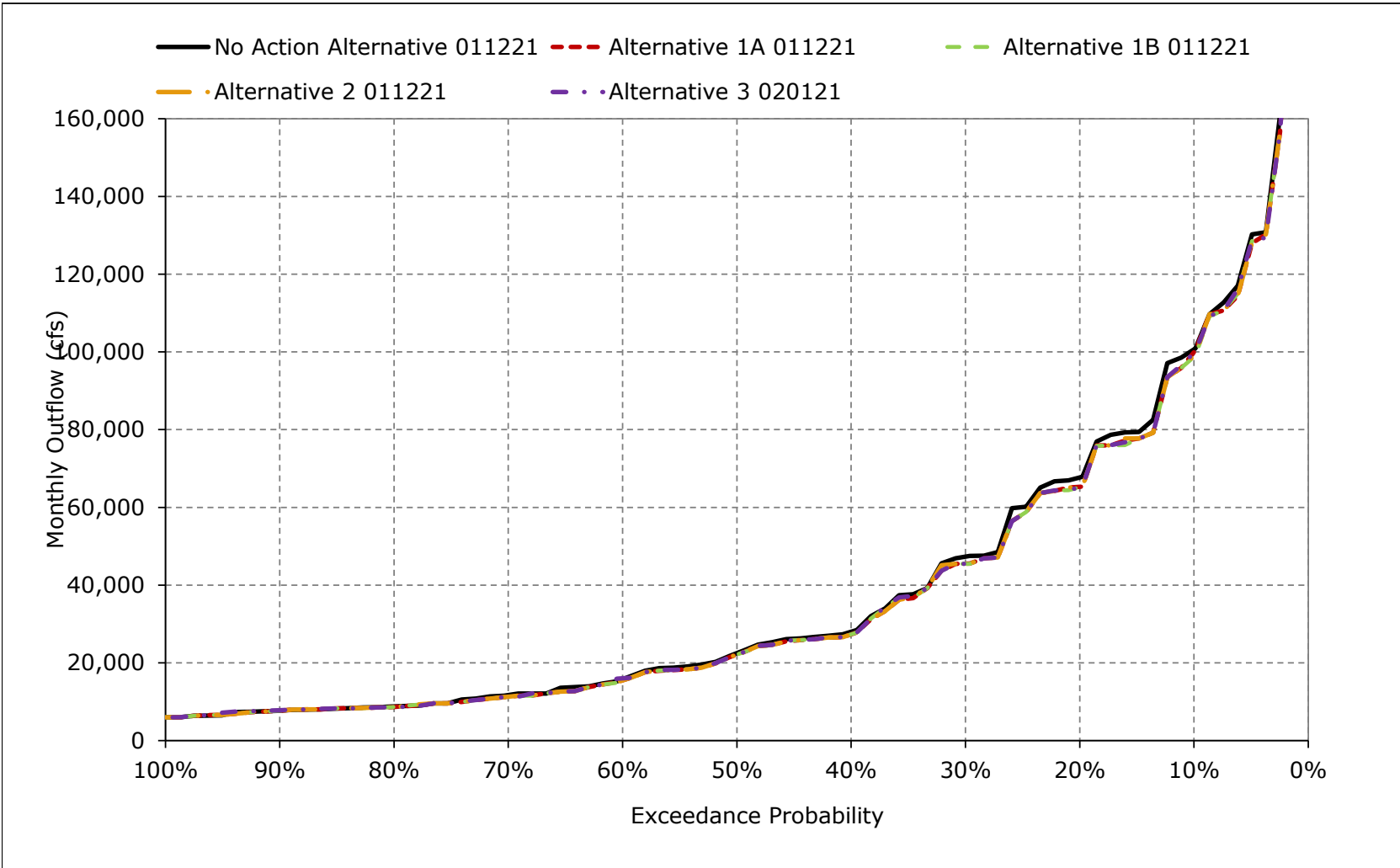
**Figure 5B3-5-8. Delta Outflow, November**



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

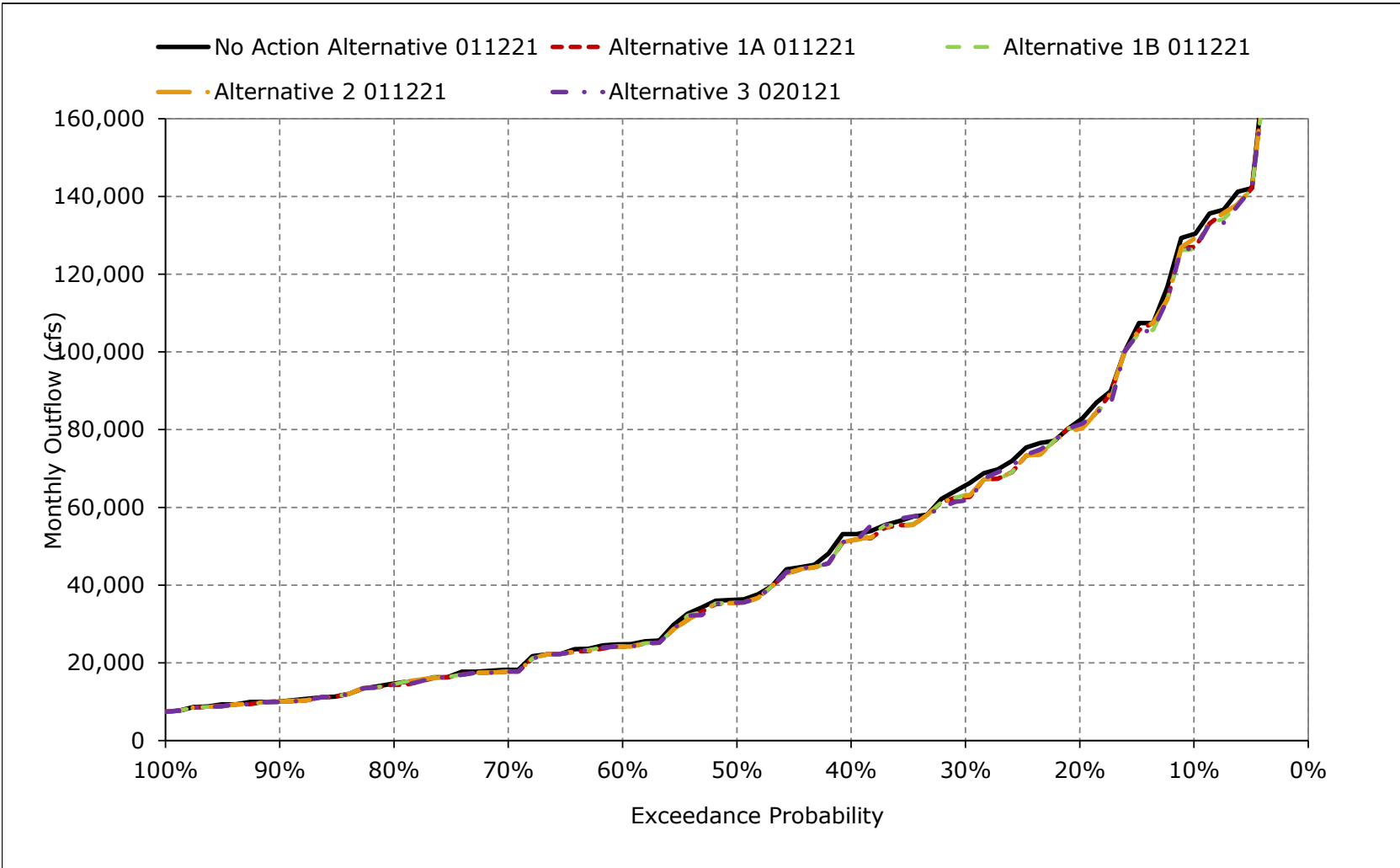


**Figure 5B3-5-10. Delta Outflow, January**

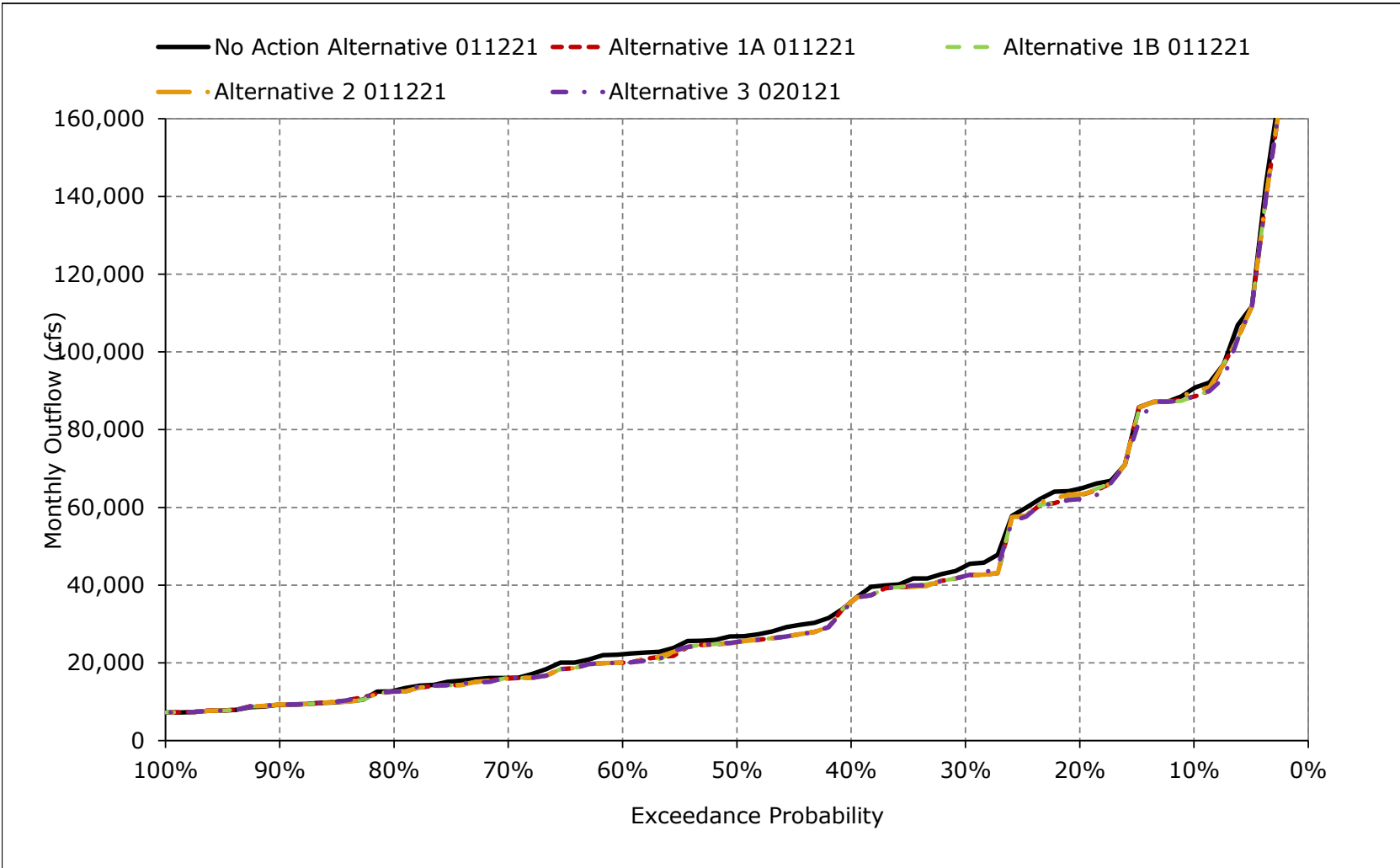




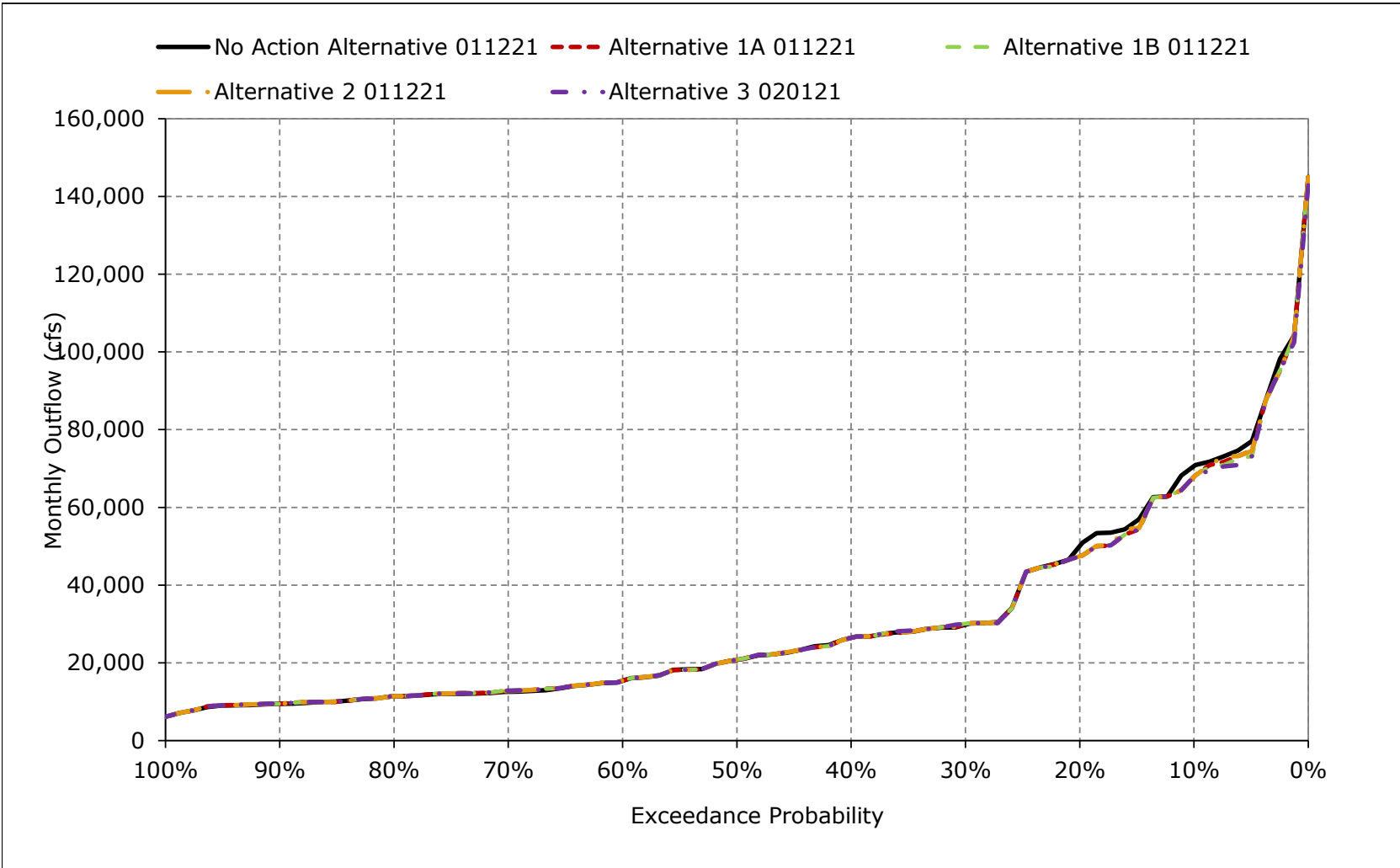
**Figure 5B3-5-11. Delta Outflow, February**



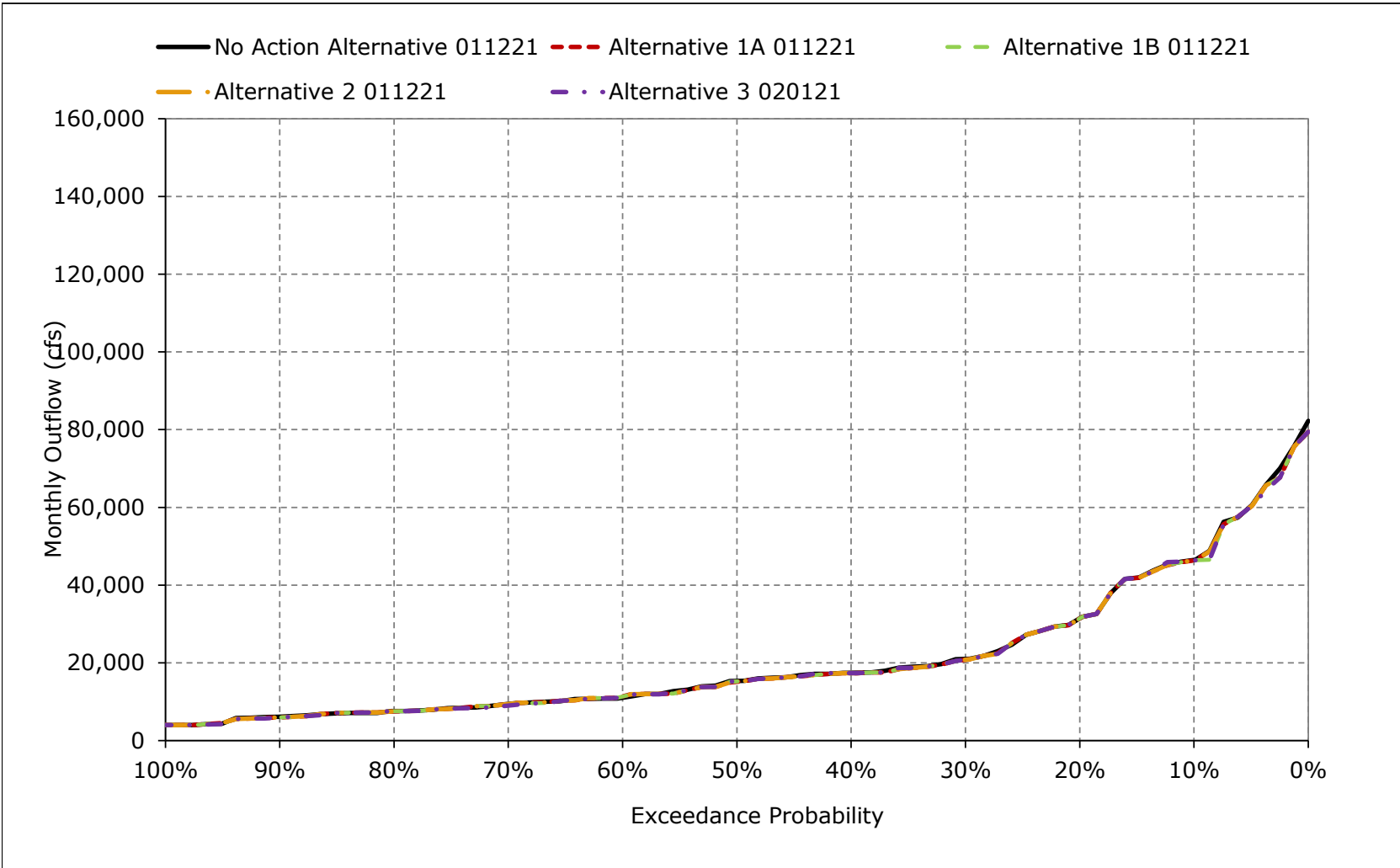
**Figure 5B3-5-12. Delta Outflow, March**



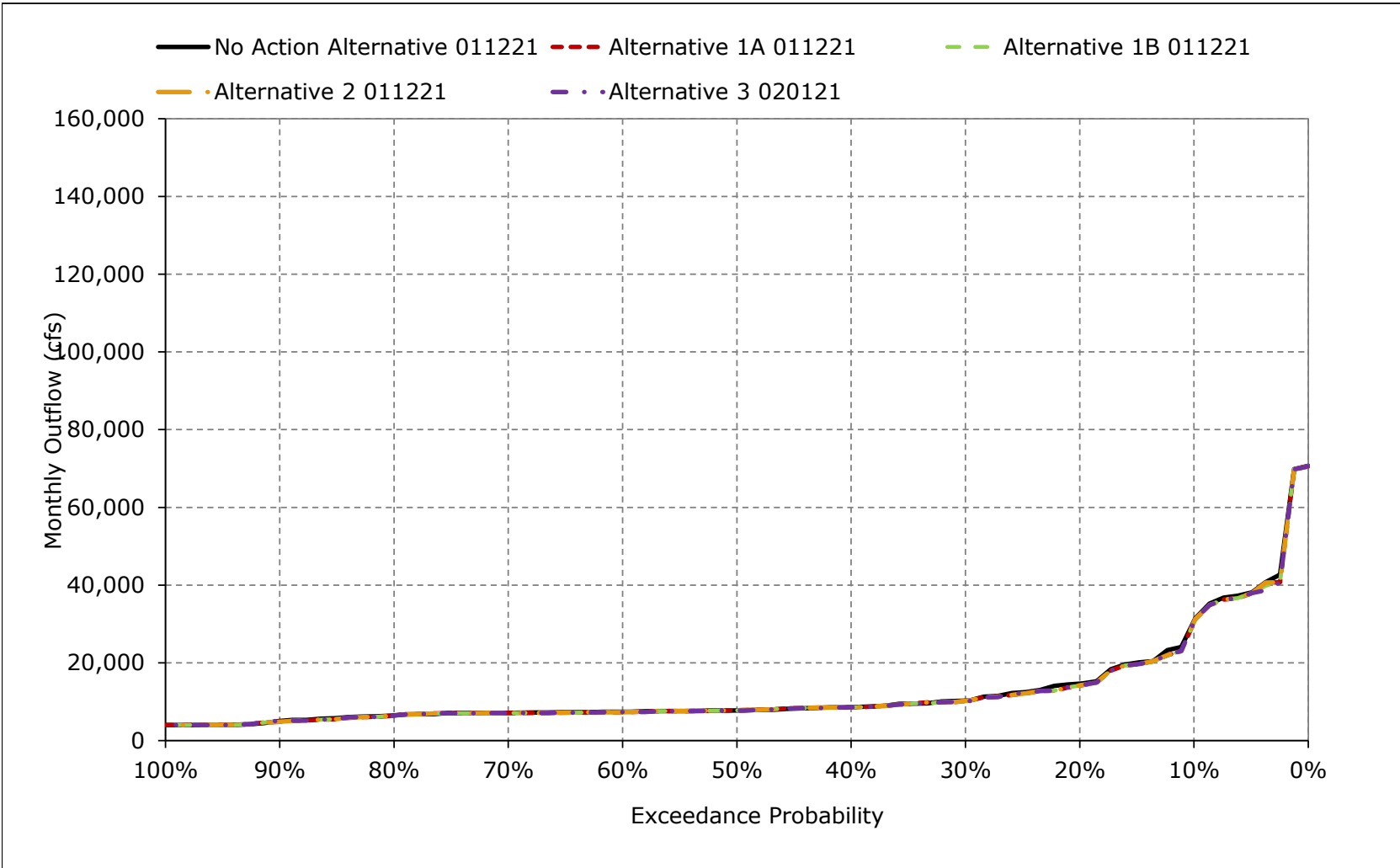
**Figure 5B3-5-13. Delta Outflow, April**



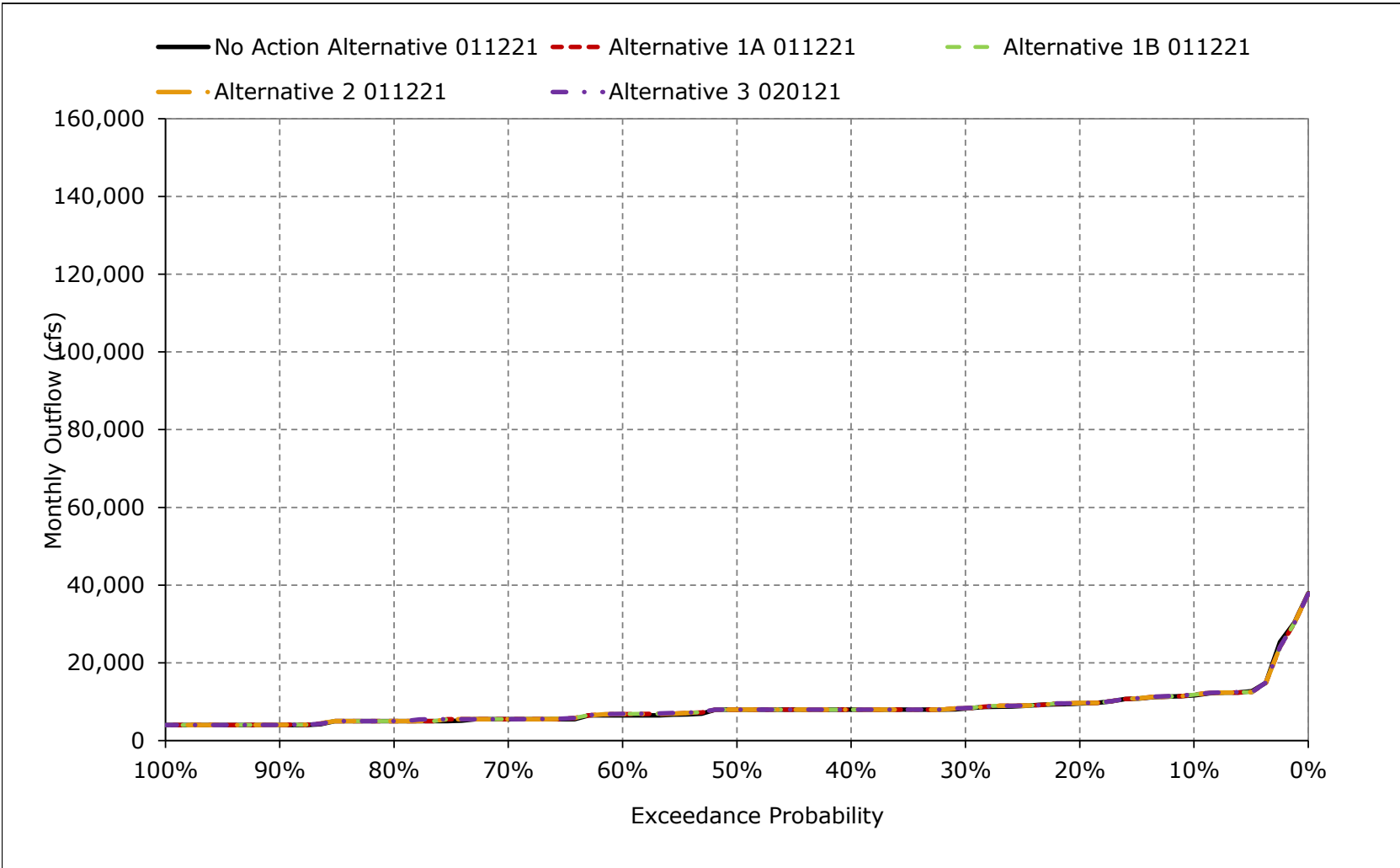
**Figure 5B3-5-14. Delta Outflow, May**



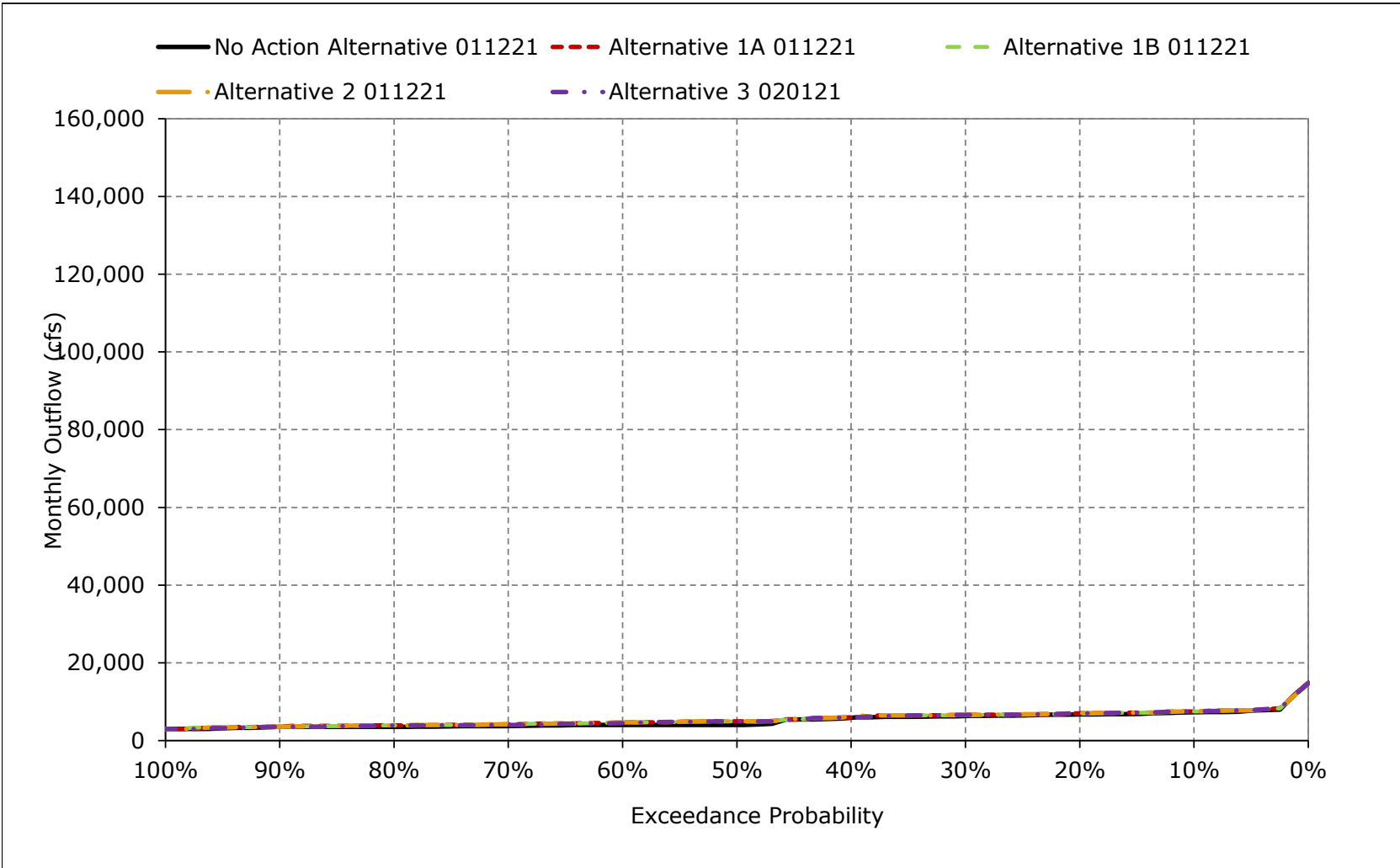
**Figure 5B3-5-15. Delta Outflow, June**



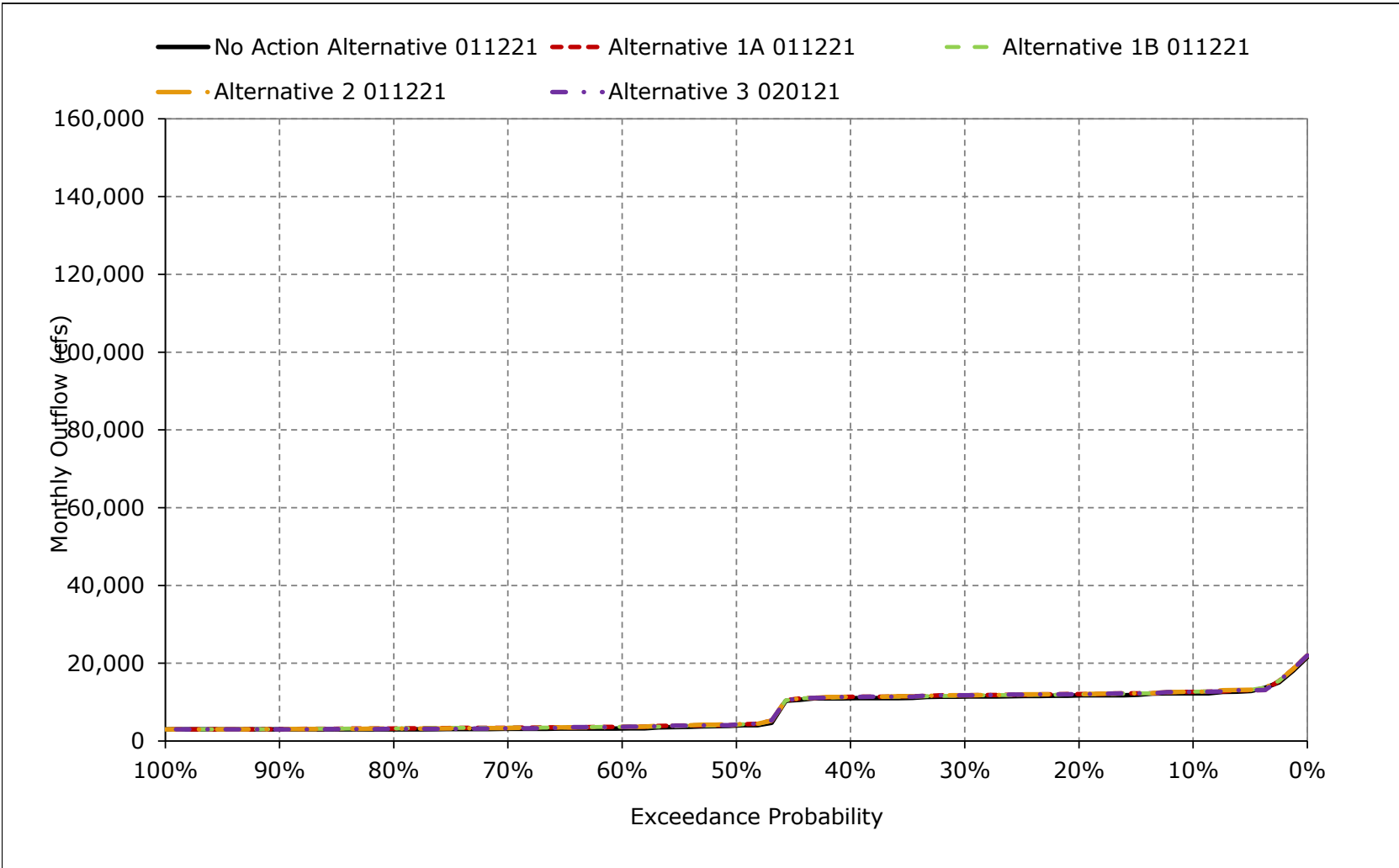
**Figure 5B3-5-16. Delta Outflow, July**



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



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





**Table 5B3-6-1a. Old and Middle River Flow, No Action Alternative 011221, Monthly Flow (combined flows)(cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-2,764	-3,303	-4,107	-3,645	-3,411	-1,762	-506	-1,140	-1,801	-2,807	-3,558	-3,579
20%	-3,472	-3,883	-5,031	-3,645	-4,464	-3,258	-902	-1,789	-3,736	-4,689	-4,543	-4,993
30%	-4,204	-4,802	-5,290	-4,516	-4,464	-3,258	-1,043	-1,882	-4,660	-7,254	-5,377	-5,955
40%	-4,624	-6,033	-5,290	-4,516	-4,464	-3,258	-1,206	-1,971	-5,000	-8,268	-6,641	-6,631
50%	-5,210	-8,460	-5,290	-4,516	-4,464	-3,258	-1,479	-2,113	-5,000	-8,987	-8,283	-7,710
60%	-5,620	-8,890	-5,807	-5,000	-4,483	-3,258	-1,638	-2,297	-5,000	-9,605	-8,888	-8,594
70%	-6,718	-9,190	-8,781	-5,226	-4,483	-3,258	-1,957	-2,456	-5,000	-10,296	-9,218	-8,801
80%	-7,363	-9,384	-9,595	-5,226	-5,000	-3,258	-2,112	-2,667	-5,000	-10,666	-9,633	-9,090
90%	-8,282	-9,579	-9,725	-5,226	-5,000	-3,500	-2,318	-3,386	-5,000	-11,206	-10,285	-9,281
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	-5,347	-6,930	-6,368	-3,959	-3,942	-2,456	-1,158	-1,982	-4,260	-7,990	-7,278	-7,008
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	-6,765	-8,737	-7,264	-2,304	-2,629	-829	-575	-1,616	-4,438	-8,312	-8,444	-8,563
Above Normal (15%)	-5,426	-9,010	-7,924	-4,331	-3,853	-2,754	-1,460	-2,386	-4,914	-9,402	-9,048	-8,647
Below Normal (17%)	-6,292	-6,617	-6,307	-4,707	-4,752	-3,289	-1,440	-2,263	-4,702	-10,508	-9,808	-8,176
Dry (22%)	-4,064	-5,241	-5,101	-5,090	-4,760	-3,307	-1,564	-2,146	-4,449	-7,982	-4,693	-5,428
Critical (15%)	-3,018	-3,836	-4,842	-4,605	-4,705	-3,433	-1,184	-1,799	-2,421	-2,952	-3,906	-3,008

**Table 5B3-6-1b. Old and Middle River Flow, Alternative 1A 011221, Monthly Flow (combined flows)(cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-2,824	-3,458	-4,241	-3,645	-3,399	-1,661	-457	-1,138	-1,757	-3,471	-4,572	-4,636
20%	-3,938	-4,763	-5,178	-3,645	-4,464	-3,258	-867	-1,781	-3,570	-5,967	-5,149	-6,053
30%	-4,627	-5,588	-5,290	-4,516	-4,464	-3,258	-1,071	-1,879	-4,563	-7,641	-6,037	-6,508
40%	-5,249	-7,098	-5,290	-4,516	-4,464	-3,258	-1,213	-1,956	-5,000	-8,547	-7,316	-6,854
50%	-5,841	-8,639	-5,292	-4,516	-4,464	-3,258	-1,434	-2,105	-5,000	-9,213	-8,569	-7,843
60%	-6,120	-8,903	-6,351	-5,000	-4,483	-3,258	-1,621	-2,296	-5,000	-9,872	-8,884	-8,633
70%	-6,724	-9,222	-8,784	-5,226	-4,483	-3,258	-2,006	-2,474	-5,000	-10,346	-9,294	-8,832
80%	-7,268	-9,407	-9,538	-5,226	-5,000	-3,258	-2,111	-2,732	-5,000	-10,737	-9,646	-9,117
90%	-8,344	-9,579	-9,708	-5,226	-5,000	-3,500	-2,318	-3,386	-5,000	-11,274	-10,295	-9,350
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	-5,651	-7,230	-6,428	-3,973	-3,912	-2,460	-1,153	-1,978	-4,259	-8,337	-7,649	-7,352
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	-6,721	-8,745	-7,256	-2,303	-2,619	-827	-575	-1,608	-4,431	-8,301	-8,457	-8,568
Above Normal (15%)	-5,481	-9,035	-7,890	-4,331	-3,811	-2,754	-1,461	-2,395	-4,911	-9,415	-9,057	-8,685
Below Normal (17%)	-6,750	-7,274	-6,480	-4,707	-4,662	-3,289	-1,433	-2,264	-4,671	-10,531	-10,014	-8,353
Dry (22%)	-4,952	-5,797	-5,271	-5,085	-4,748	-3,307	-1,537	-2,139	-4,452	-8,968	-5,685	-6,225
Critical (15%)	-3,267	-4,243	-4,844	-4,707	-4,683	-3,469	-1,198	-1,790	-2,468	-3,830	-4,677	-3,905

**Table 5B3-6-1c. Old and Middle River Flow, Alternative 1A 011221 minus No Action Alternative 011221, Monthly Flow (combined flows)(cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-60	-155	-134	0	12	101	50	3	44	-664	-1,014	-1,057
20%	-466	-880	-147	0	0	0	35	8	166	-1,278	-606	-1,060
30%	-423	-785	0	0	0	0	-28	3	97	-387	-661	-553
40%	-626	-1,065	0	0	0	0	-8	15	0	-279	-675	-223
50%	-632	-179	-1	0	0	0	45	8	0	-227	-287	-133
60%	-501	-12	-544	0	0	0	17	1	0	-267	5	-38
70%	-6	-32	-4	0	0	0	-49	-18	0	-49	-76	-31
80%	95	-23	58	0	0	0	2	-65	0	-70	-13	-27
90%	-62	0	16	0	0	0	0	0	0	-68	-10	-68
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	-304	-300	-60	-13	30	-5	5	4	1	-347	-371	-344
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	43	-9	8	1	9	1	1	8	7	11	-13	-4
Above Normal (15%)	-54	-25	34	0	42	0	-1	-9	4	-13	-9	-38
Below Normal (17%)	-458	-657	-173	0	90	0	7	-1	31	-23	-206	-178
Dry (22%)	-888	-556	-170	5	12	0	27	7	-3	-986	-992	-797
Critical (15%)	-249	-407	-2	-102	22	-36	-15	9	-47	-878	-771	-896

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B3-6-2a. Old and Middle River Flow, No Action Alternative 011221, Monthly Flow (combined flows)(cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-2,764	-3,303	-4,107	-3,645	-3,411	-1,762	-506	-1,140	-1,801	-2,807	-3,558	-3,579
20%	-3,472	-3,883	-5,031	-3,645	-4,464	-3,258	-902	-1,789	-3,736	-4,689	-4,543	-4,993
30%	-4,204	-4,802	-5,290	-4,516	-4,464	-3,258	-1,043	-1,882	-4,660	-7,254	-5,377	-5,955
40%	-4,624	-6,033	-5,290	-4,516	-4,464	-3,258	-1,206	-1,971	-5,000	-8,268	-6,641	-6,631
50%	-5,210	-8,460	-5,290	-4,516	-4,464	-3,258	-1,479	-2,113	-5,000	-8,987	-8,283	-7,710
60%	-5,620	-8,890	-5,807	-5,000	-4,483	-3,258	-1,638	-2,297	-5,000	-9,605	-8,888	-8,594
70%	-6,718	-9,190	-8,781	-5,226	-4,483	-3,258	-1,957	-2,456	-5,000	-10,296	-9,218	-8,801
80%	-7,363	-9,384	-9,595	-5,226	-5,000	-3,258	-2,112	-2,667	-5,000	-10,666	-9,633	-9,090
90%	-8,282	-9,579	-9,725	-5,226	-5,000	-3,500	-2,318	-3,386	-5,000	-11,206	-10,285	-9,281
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	-5,347	-6,930	-6,368	-3,959	-3,942	-2,456	-1,158	-1,982	-4,260	-7,990	-7,278	-7,008
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	-6,765	-8,737	-7,264	-2,304	-2,629	-829	-575	-1,616	-4,438	-8,312	-8,444	-8,563
Above Normal (15%)	-5,426	-9,010	-7,924	-4,331	-3,853	-2,754	-1,460	-2,386	-4,914	-9,402	-9,048	-8,647
Below Normal (17%)	-6,292	-6,617	-6,307	-4,707	-4,752	-3,289	-1,440	-2,263	-4,702	-10,508	-9,808	-8,176
Dry (22%)	-4,064	-5,241	-5,101	-5,090	-4,760	-3,307	-1,564	-2,146	-4,449	-7,982	-4,693	-5,428
Critical (15%)	-3,018	-3,836	-4,842	-4,605	-4,705	-3,433	-1,184	-1,799	-2,421	-2,952	-3,906	-3,008

**Table 5B3-6-2b. Old and Middle River Flow, Alternative 1B 011221, Monthly Flow (combined flows)(cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-2,966	-3,701	-4,034	-3,645	-3,410	-1,704	-457	-1,198	-1,833	-3,465	-4,566	-4,456
20%	-3,822	-4,601	-5,035	-3,645	-4,464	-3,258	-867	-1,781	-3,682	-6,141	-5,143	-5,930
30%	-4,680	-5,593	-5,290	-4,516	-4,464	-3,258	-1,071	-1,875	-4,577	-7,717	-6,137	-6,478
40%	-5,225	-7,234	-5,290	-4,516	-4,464	-3,258	-1,217	-1,956	-5,000	-8,629	-7,321	-6,847
50%	-5,841	-8,639	-5,290	-4,516	-4,464	-3,258	-1,432	-2,105	-5,000	-9,188	-8,540	-7,845
60%	-6,085	-8,946	-6,323	-5,000	-4,483	-3,258	-1,621	-2,330	-5,000	-9,800	-8,902	-8,680
70%	-6,754	-9,222	-8,787	-5,226	-4,483	-3,258	-2,006	-2,467	-5,000	-10,345	-9,294	-8,905
80%	-7,307	-9,407	-9,557	-5,226	-5,000	-3,258	-2,110	-2,736	-5,000	-10,738	-9,648	-9,168
90%	-8,347	-9,579	-9,708	-5,226	-5,000	-3,500	-2,318	-3,386	-5,000	-11,277	-10,295	-9,355
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	-5,647	-7,271	-6,329	-3,956	-3,921	-2,459	-1,162	-1,984	-4,272	-8,351	-7,649	-7,352
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	-6,734	-8,745	-7,311	-2,303	-2,624	-812	-576	-1,608	-4,431	-8,302	-8,458	-8,569
Above Normal (15%)	-5,549	-9,049	-7,898	-4,331	-3,827	-2,754	-1,501	-2,415	-4,911	-9,420	-9,059	-8,739
Below Normal (17%)	-6,669	-7,271	-6,481	-4,707	-4,663	-3,289	-1,435	-2,260	-4,662	-10,506	-9,992	-8,415
Dry (22%)	-4,977	-5,965	-4,686	-5,078	-4,761	-3,307	-1,548	-2,157	-4,519	-9,042	-5,719	-6,167
Critical (15%)	-3,205	-4,259	-4,921	-4,605	-4,703	-3,491	-1,199	-1,787	-2,464	-3,837	-4,651	-3,868

**Table 5B3-6-2c. Old and Middle River Flow, Alternative 1B 011221 minus No Action Alternative 011221, Monthly Flow (combined flows)(cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-202	-398	73	0	1	59	49	-58	-32	-658	-1,008	-877
20%	-349	-717	-4	0	0	0	35	8	54	-1,452	-600	-937
30%	-476	-791	0	0	0	0	-28	8	83	-463	-761	-523
40%	-601	-1,200	0	0	0	0	-12	15	0	-361	-681	-216
50%	-631	-180	0	0	0	0	47	8	0	-201	-258	-135
60%	-466	-56	-515	0	0	0	17	-32	0	-195	-14	-85
70%	-37	-32	-6	0	0	0	-49	-11	0	-49	-76	-104
80%	56	-23	39	0	0	0	3	-69	0	-72	-15	-78
90%	-66	0	16	0	0	0	0	0	0	-71	-10	-74
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	-300	-341	39	3	21	-3	-4	-2	-12	-361	-372	-344
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	31	-9	-47	1	5	17	0	8	7	10	-14	-6
Above Normal (15%)	-123	-39	26	0	26	-1	-41	-29	4	-17	-11	-92
Below Normal (17%)	-377	-654	-174	0	89	0	5	3	40	2	-184	-239
Dry (22%)	-913	-724	415	11	-2	0	16	-12	-71	-1,060	-1,026	-739
Critical (15%)	-187	-423	-78	0	2	-58	-16	11	-43	-885	-745	-860

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B3-6-3a. Old and Middle River Flow, No Action Alternative 011221, Monthly Flow (combined flows)(cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-2,764	-3,303	-4,107	-3,645	-3,411	-1,762	-506	-1,140	-1,801	-2,807	-3,558	-3,579
20%	-3,472	-3,883	-5,031	-3,645	-4,464	-3,258	-902	-1,789	-3,736	-4,689	-4,543	-4,993
30%	-4,204	-4,802	-5,290	-4,516	-4,464	-3,258	-1,043	-1,882	-4,660	-7,254	-5,377	-5,955
40%	-4,624	-6,033	-5,290	-4,516	-4,464	-3,258	-1,206	-1,971	-5,000	-8,268	-6,641	-6,631
50%	-5,210	-8,460	-5,290	-4,516	-4,464	-3,258	-1,479	-2,113	-5,000	-8,987	-8,283	-7,710
60%	-5,620	-8,890	-5,807	-5,000	-4,483	-3,258	-1,638	-2,297	-5,000	-9,605	-8,888	-8,594
70%	-6,718	-9,190	-8,781	-5,226	-4,483	-3,258	-1,957	-2,456	-5,000	-10,296	-9,218	-8,801
80%	-7,363	-9,384	-9,595	-5,226	-5,000	-3,258	-2,112	-2,667	-5,000	-10,666	-9,633	-9,090
90%	-8,282	-9,579	-9,725	-5,226	-5,000	-3,500	-2,318	-3,386	-5,000	-11,206	-10,285	-9,281
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	-5,347	-6,930	-6,368	-3,959	-3,942	-2,456	-1,158	-1,982	-4,260	-7,990	-7,278	-7,008
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	-6,765	-8,737	-7,264	-2,304	-2,629	-829	-575	-1,616	-4,438	-8,312	-8,444	-8,563
Above Normal (15%)	-5,426	-9,010	-7,924	-4,331	-3,853	-2,754	-1,460	-2,386	-4,914	-9,402	-9,048	-8,647
Below Normal (17%)	-6,292	-6,617	-6,307	-4,707	-4,752	-3,289	-1,440	-2,263	-4,702	-10,508	-9,808	-8,176
Dry (22%)	-4,064	-5,241	-5,101	-5,090	-4,760	-3,307	-1,564	-2,146	-4,449	-7,982	-4,693	-5,428
Critical (15%)	-3,018	-3,836	-4,842	-4,605	-4,705	-3,433	-1,184	-1,799	-2,421	-2,952	-3,906	-3,008

**Table 5B3-6-3b. Old and Middle River Flow, Alternative 2 011221, Monthly Flow (combined flows)(cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-2,920	-3,502	-4,076	-3,645	-3,404	-1,759	-457	-1,138	-1,773	-3,480	-4,561	-4,356
20%	-3,836	-4,400	-5,196	-3,645	-4,464	-3,258	-867	-1,781	-3,571	-5,967	-5,015	-6,014
30%	-4,519	-5,589	-5,290	-4,516	-4,464	-3,258	-1,071	-1,879	-4,563	-7,717	-5,950	-6,451
40%	-5,162	-7,090	-5,290	-4,516	-4,464	-3,258	-1,213	-1,956	-5,000	-8,547	-7,314	-6,839
50%	-5,842	-8,639	-5,290	-4,516	-4,464	-3,258	-1,434	-2,105	-5,000	-9,156	-8,524	-7,850
60%	-6,108	-8,903	-6,324	-5,000	-4,483	-3,258	-1,618	-2,296	-5,000	-9,800	-8,884	-8,648
70%	-6,754	-9,222	-8,784	-5,226	-4,483	-3,258	-2,006	-2,474	-5,000	-10,346	-9,294	-8,832
80%	-7,274	-9,410	-9,538	-5,226	-5,000	-3,258	-2,110	-2,735	-5,000	-10,760	-9,648	-9,117
90%	-8,339	-9,579	-9,708	-5,226	-5,000	-3,500	-2,318	-3,386	-5,000	-11,268	-10,298	-9,350
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	-5,617	-7,209	-6,433	-3,957	-3,920	-2,466	-1,153	-1,980	-4,260	-8,326	-7,624	-7,325
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	-6,743	-8,745	-7,257	-2,303	-2,619	-825	-575	-1,608	-4,431	-8,302	-8,456	-8,568
Above Normal (15%)	-5,480	-9,040	-7,890	-4,331	-3,815	-2,754	-1,459	-2,406	-4,911	-9,416	-9,057	-8,685
Below Normal (17%)	-6,738	-7,292	-6,483	-4,707	-4,662	-3,289	-1,432	-2,264	-4,671	-10,531	-10,009	-8,338
Dry (22%)	-4,825	-5,675	-5,274	-5,085	-4,770	-3,307	-1,537	-2,139	-4,453	-8,951	-5,672	-6,186
Critical (15%)	-3,192	-4,255	-4,869	-4,602	-4,700	-3,515	-1,199	-1,790	-2,469	-3,780	-4,535	-3,798

**Table 5B3-6-3c. Old and Middle River Flow, Alternative 2 011221 minus No Action Alternative 011221, Monthly Flow (combined flows)(cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-156	-198	31	0	7	4	50	3	27	-673	-1,003	-777
20%	-363	-517	-165	0	0	0	35	8	166	-1,278	-472	-1,021
30%	-315	-787	0	0	0	0	-28	3	97	-463	-573	-496
40%	-539	-1,057	0	0	0	0	-8	15	0	-279	-674	-208
50%	-632	-179	0	0	0	0	45	8	0	-169	-241	-140
60%	-488	-12	-517	0	0	0	20	1	0	-195	5	-54
70%	-36	-32	-4	0	0	0	-49	-18	0	-49	-76	-31
80%	89	-26	58	0	0	0	2	-68	0	-94	-15	-27
90%	-57	0	16	0	0	0	0	0	0	-62	-13	-68
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	-270	-279	-65	2	22	-11	5	2	0	-337	-346	-317
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	22	-9	7	1	9	3	1	8	7	10	-12	-5
Above Normal (15%)	-54	-30	34	0	38	0	1	-20	4	-14	-9	-38
Below Normal (17%)	-446	-675	-177	0	90	0	8	-1	31	-23	-201	-162
Dry (22%)	-761	-434	-173	5	-10	0	27	7	-4	-969	-978	-759
Critical (15%)	-174	-419	-27	3	5	-81	-15	9	-48	-828	-629	-790

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B3-6-4a. Old and Middle River Flow, No Action Alternative 011221, Monthly Flow (combined flows)(cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-2,764	-3,303	-4,107	-3,645	-3,411	-1,762	-506	-1,140	-1,801	-2,807	-3,558	-3,579
20%	-3,472	-3,883	-5,031	-3,645	-4,464	-3,258	-902	-1,789	-3,736	-4,689	-4,543	-4,993
30%	-4,204	-4,802	-5,290	-4,516	-4,464	-3,258	-1,043	-1,882	-4,660	-7,254	-5,377	-5,955
40%	-4,624	-6,033	-5,290	-4,516	-4,464	-3,258	-1,206	-1,971	-5,000	-8,268	-6,641	-6,631
50%	-5,210	-8,460	-5,290	-4,516	-4,464	-3,258	-1,479	-2,113	-5,000	-8,987	-8,283	-7,710
60%	-5,620	-8,890	-5,807	-5,000	-4,483	-3,258	-1,638	-2,297	-5,000	-9,605	-8,888	-8,594
70%	-6,718	-9,190	-8,781	-5,226	-4,483	-3,258	-1,957	-2,456	-5,000	-10,296	-9,218	-8,801
80%	-7,363	-9,384	-9,595	-5,226	-5,000	-3,258	-2,112	-2,667	-5,000	-10,666	-9,633	-9,090
90%	-8,282	-9,579	-9,725	-5,226	-5,000	-3,500	-2,318	-3,386	-5,000	-11,206	-10,285	-9,281
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	-5,347	-6,930	-6,368	-3,959	-3,942	-2,456	-1,158	-1,982	-4,260	-7,990	-7,278	-7,008
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	-6,765	-8,737	-7,264	-2,304	-2,629	-829	-575	-1,616	-4,438	-8,312	-8,444	-8,563
Above Normal (15%)	-5,426	-9,010	-7,924	-4,331	-3,853	-2,754	-1,460	-2,386	-4,914	-9,402	-9,048	-8,647
Below Normal (17%)	-6,292	-6,617	-6,307	-4,707	-4,752	-3,289	-1,440	-2,263	-4,702	-10,508	-9,808	-8,176
Dry (22%)	-4,064	-5,241	-5,101	-5,090	-4,760	-3,307	-1,564	-2,146	-4,449	-7,982	-4,693	-5,428
Critical (15%)	-3,018	-3,836	-4,842	-4,605	-4,705	-3,433	-1,184	-1,799	-2,421	-2,952	-3,906	-3,008

**Table 5B3-6-4b. Old and Middle River Flow, Alternative 3 020121, Monthly Flow (combined flows)(cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-2,762	-3,940	-4,014	-3,280	-3,422	-1,669	-457	-1,147	-2,018	-3,458	-4,266	-4,207
20%	-3,796	-4,598	-4,957	-3,645	-4,464	-3,258	-876	-1,781	-3,611	-5,525	-5,047	-5,928
30%	-4,753	-5,346	-5,290	-4,516	-4,464	-3,258	-1,071	-1,882	-4,577	-7,824	-6,133	-6,336
40%	-5,247	-6,460	-5,290	-4,516	-4,464	-3,258	-1,220	-1,971	-5,000	-8,599	-7,660	-6,846
50%	-5,707	-8,602	-5,290	-4,516	-4,464	-3,258	-1,444	-2,105	-5,000	-9,143	-8,522	-8,137
60%	-6,148	-9,028	-6,736	-5,000	-4,483	-3,258	-1,621	-2,330	-5,000	-9,894	-8,880	-8,666
70%	-6,671	-9,237	-9,012	-5,226	-4,483	-3,258	-2,006	-2,467	-5,000	-10,346	-9,294	-8,897
80%	-7,561	-9,407	-9,605	-5,226	-5,000	-3,258	-2,109	-2,721	-5,000	-10,765	-9,657	-9,200
90%	-8,463	-9,579	-9,763	-5,226	-5,000	-3,500	-2,318	-3,290	-5,000	-11,275	-10,306	-9,354
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	-5,670	-7,223	-6,500	-3,942	-3,937	-2,454	-1,163	-1,970	-4,272	-8,335	-7,618	-7,334
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	-6,732	-8,745	-7,315	-2,303	-2,622	-807	-574	-1,522	-4,431	-8,306	-8,440	-8,548
Above Normal (15%)	-6,001	-9,033	-7,940	-4,331	-3,882	-2,769	-1,484	-2,416	-4,911	-9,458	-9,072	-8,953
Below Normal (17%)	-6,771	-7,233	-6,388	-4,707	-4,680	-3,289	-1,434	-2,259	-4,677	-10,534	-9,992	-8,443
Dry (22%)	-4,939	-5,809	-5,543	-5,051	-4,775	-3,307	-1,559	-2,208	-4,528	-8,973	-5,537	-6,108
Critical (15%)	-2,848	-4,224	-4,858	-4,546	-4,717	-3,451	-1,205	-1,796	-2,431	-3,753	-4,734	-3,628

**Table 5B3-6-4c. Old and Middle River Flow, Alternative 3 020121 minus No Action Alternative 011221, Monthly Flow (combined flows)(cfs)**

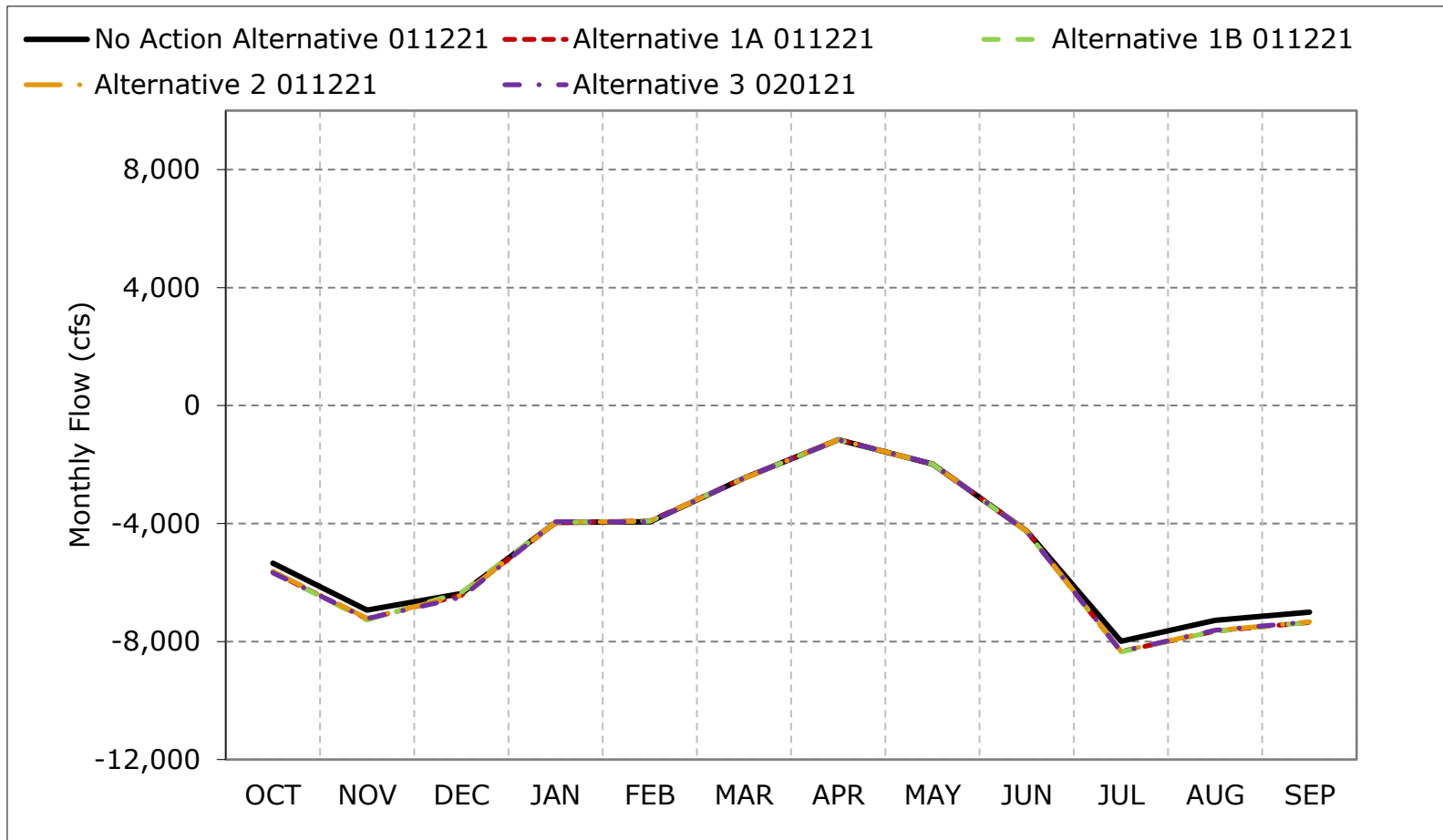
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2	-637	93	365	-11	93	49	-7	-217	-651	-708	-628
20%	-323	-714	74	0	0	0	27	8	125	-836	-504	-934
30%	-549	-544	0	0	0	0	-28	0	83	-570	-757	-381
40%	-623	-426	0	0	0	0	-14	0	0	-331	-1,019	-216
50%	-497	-142	0	0	0	0	34	8	0	-156	-239	-428
60%	-528	-137	-929	0	0	0	16	-33	0	-290	8	-71
70%	47	-47	-231	0	0	0	-49	-11	0	-49	-76	-96
80%	-198	-23	-9	0	0	0	3	-54	0	-99	-24	-110
90%	-182	0	-38	0	0	0	0	95	0	-69	-21	-73
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	-323	-293	-132	18	5	2	-4	12	-12	-345	-340	-326
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	32	-9	-51	2	6	21	1	93	7	7	4	15
Above Normal (15%)	-574	-23	-16	0	-29	-15	-24	-30	4	-56	-25	-306
Below Normal (17%)	-479	-616	-82	0	73	-1	6	3	24	-25	-184	-267
Dry (22%)	-875	-567	-442	39	-15	0	5	-63	-80	-991	-844	-681
Critical (15%)	169	-388	-16	59	-12	-17	-22	2	-10	-801	-828	-620

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

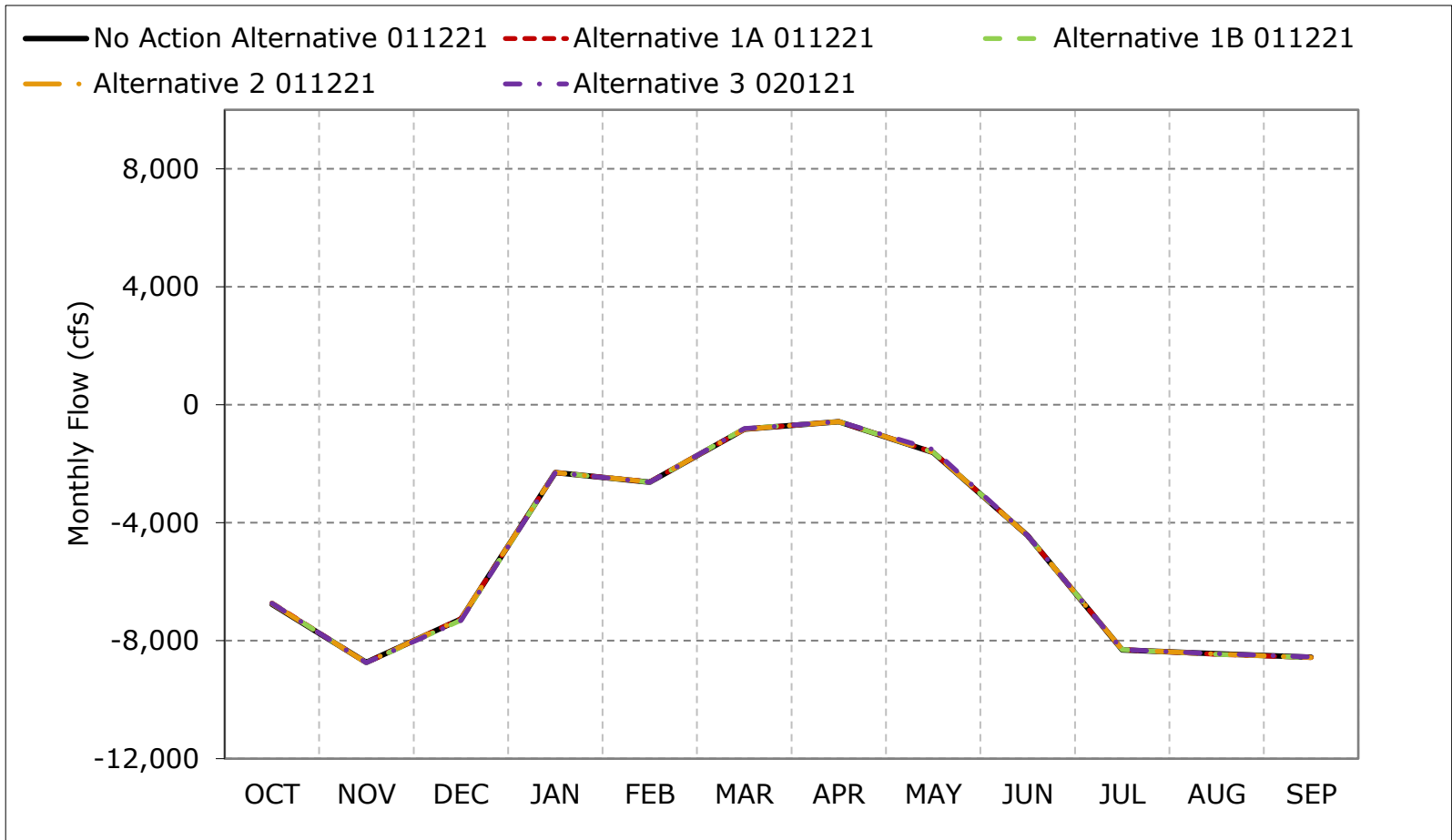
**Figure 5B3-6-1. Old and Middle River Flow, Long-Term Average Flow**



\*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.

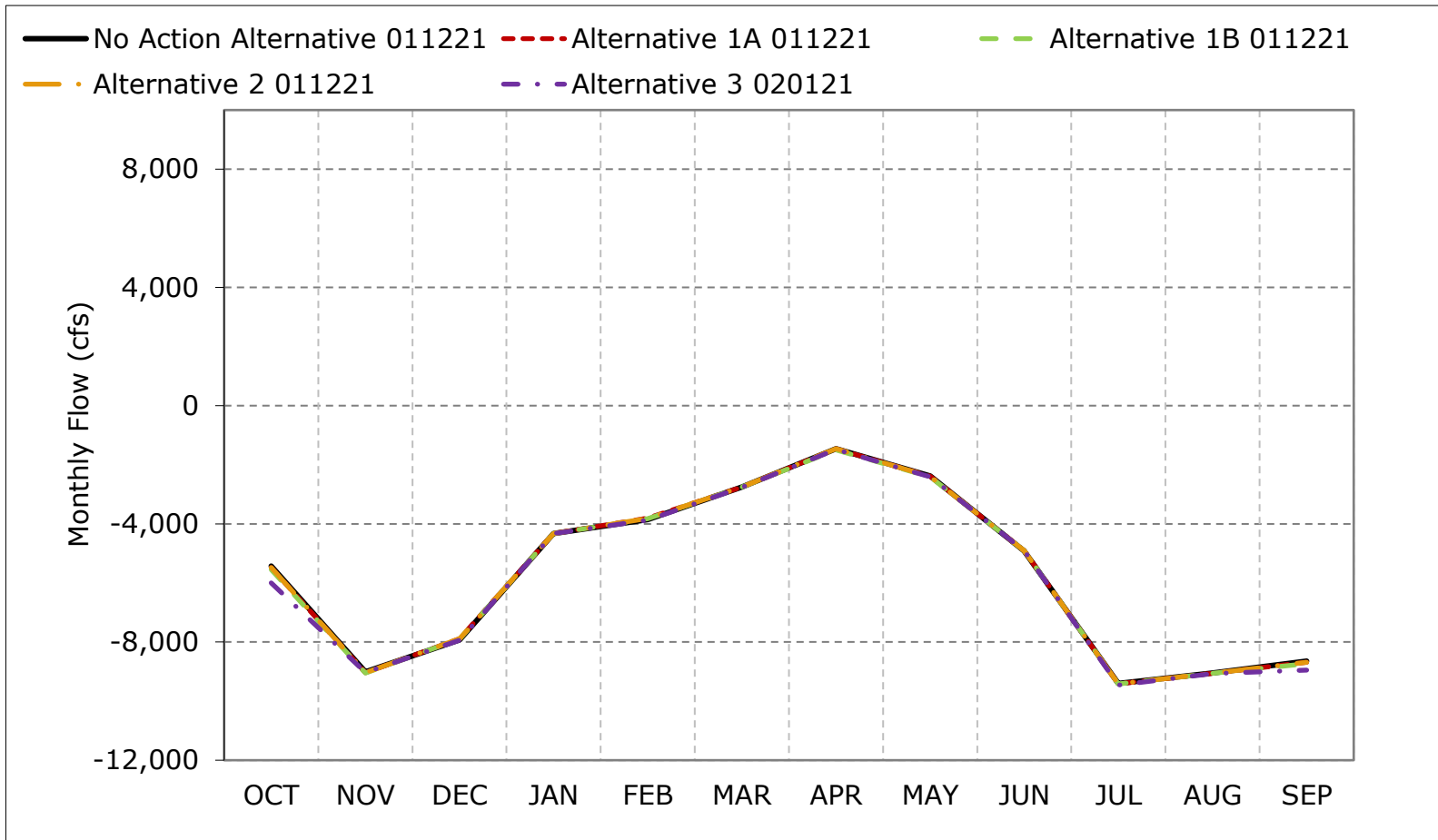
**Figure 5B3-6-2. Old and Middle River Flow, Wet Year Average Flow**



\*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.

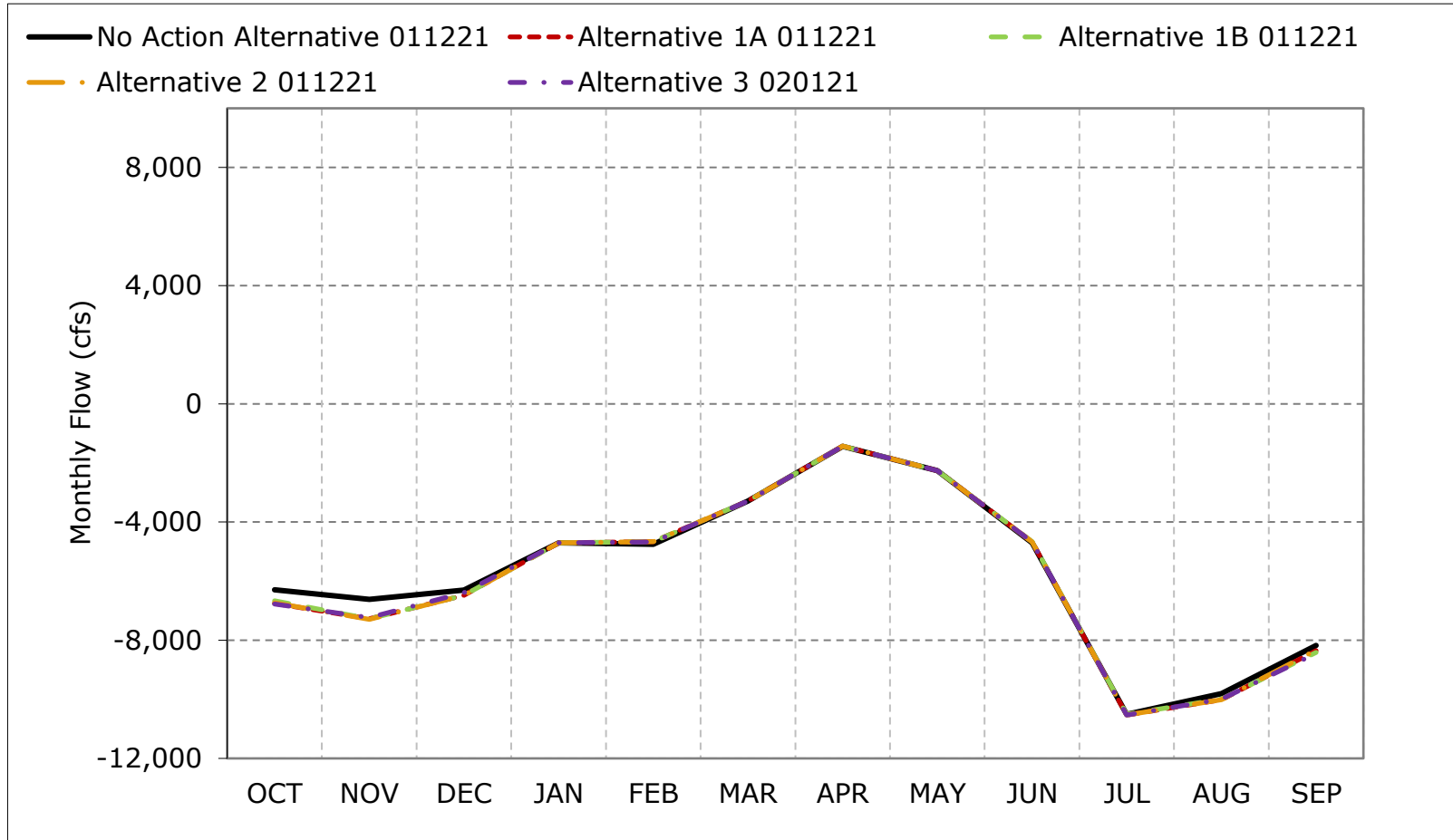
**Figure 5B3-6-3. Old and Middle River Flow, Above Normal Year Average Flow**



\*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.

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

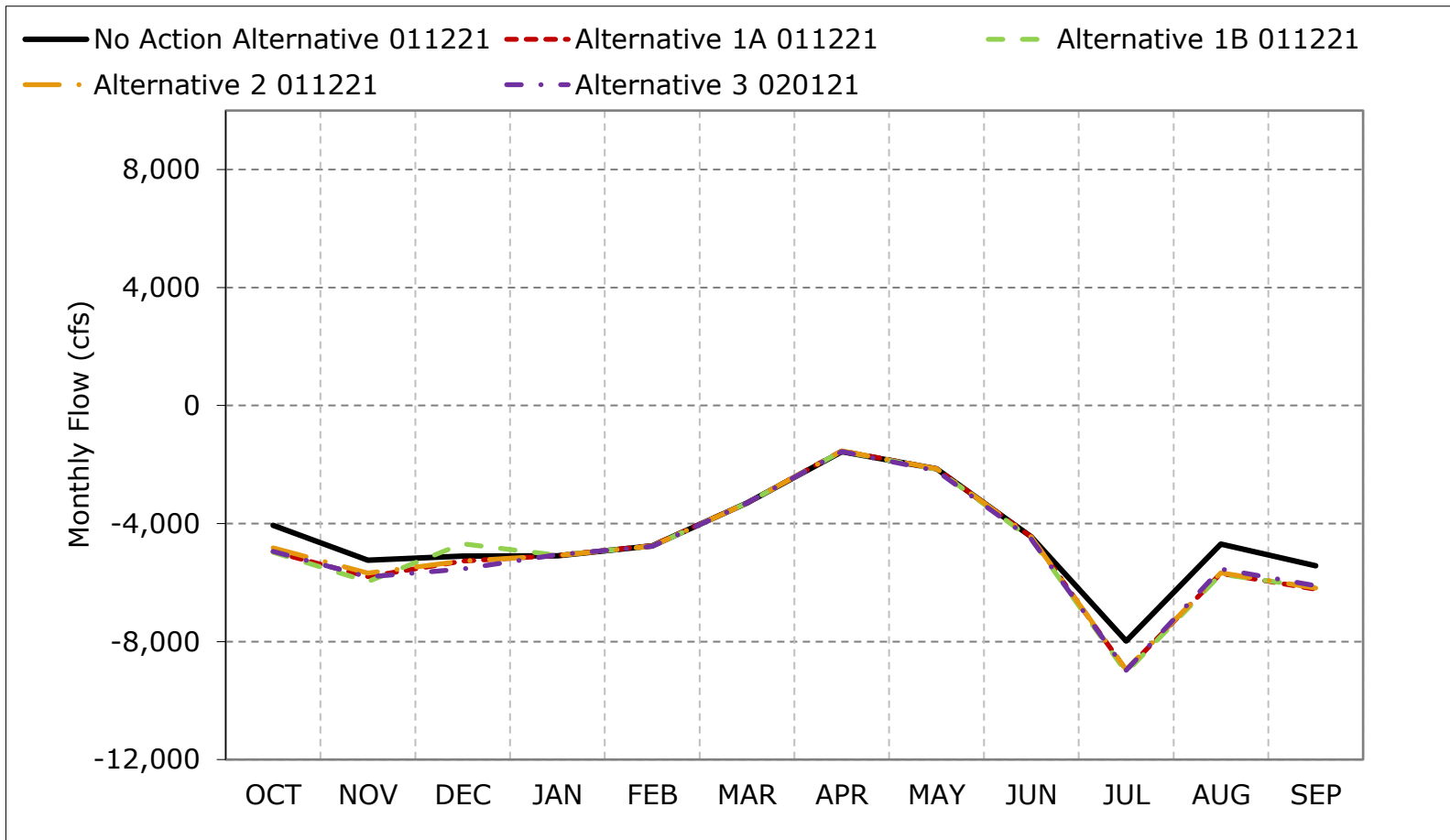


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with calendar year - year type sorting.



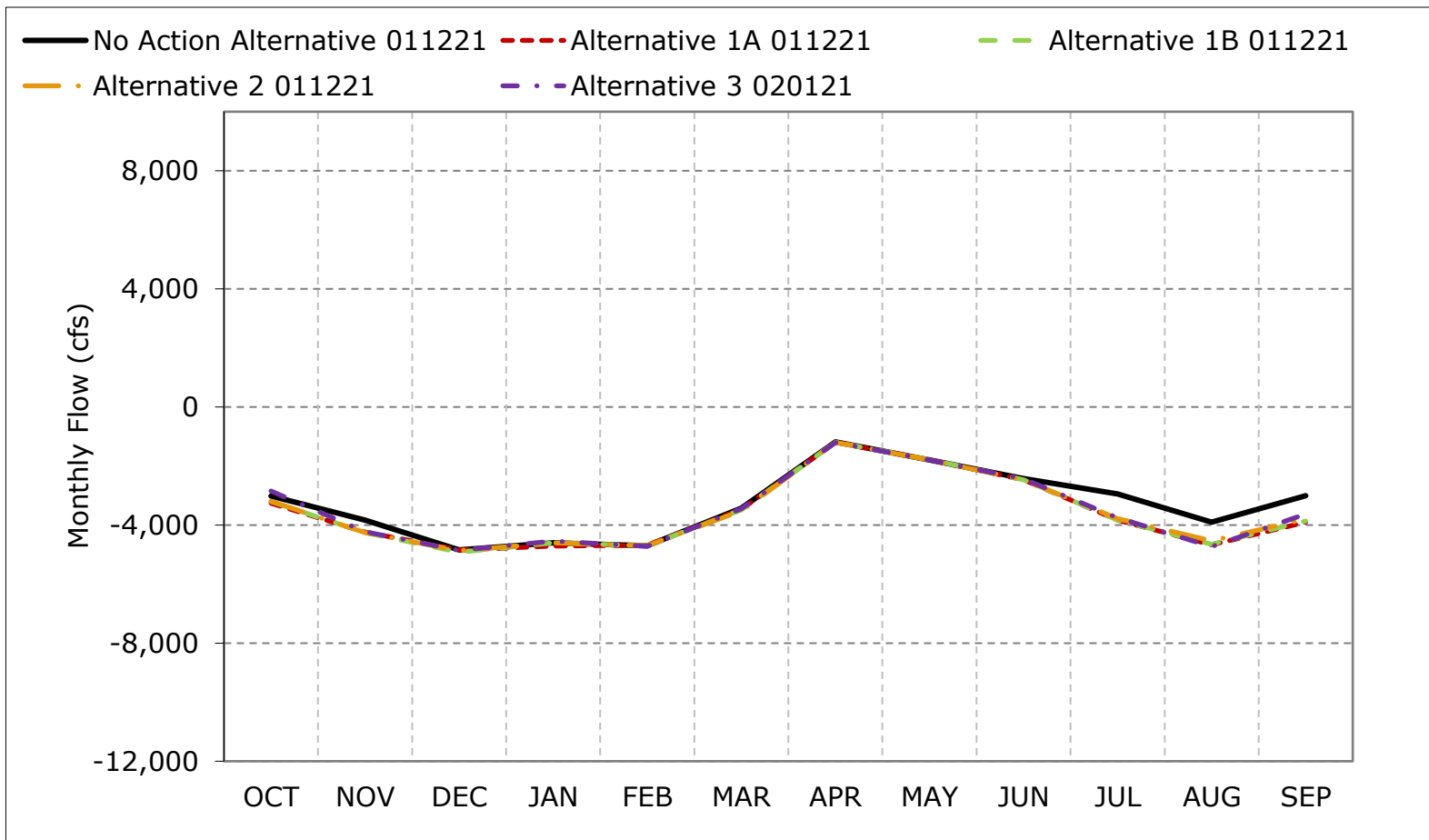
**Figure 5B3-6-5. Old and Middle River Flow, Dry Year Average Flow**



\*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.

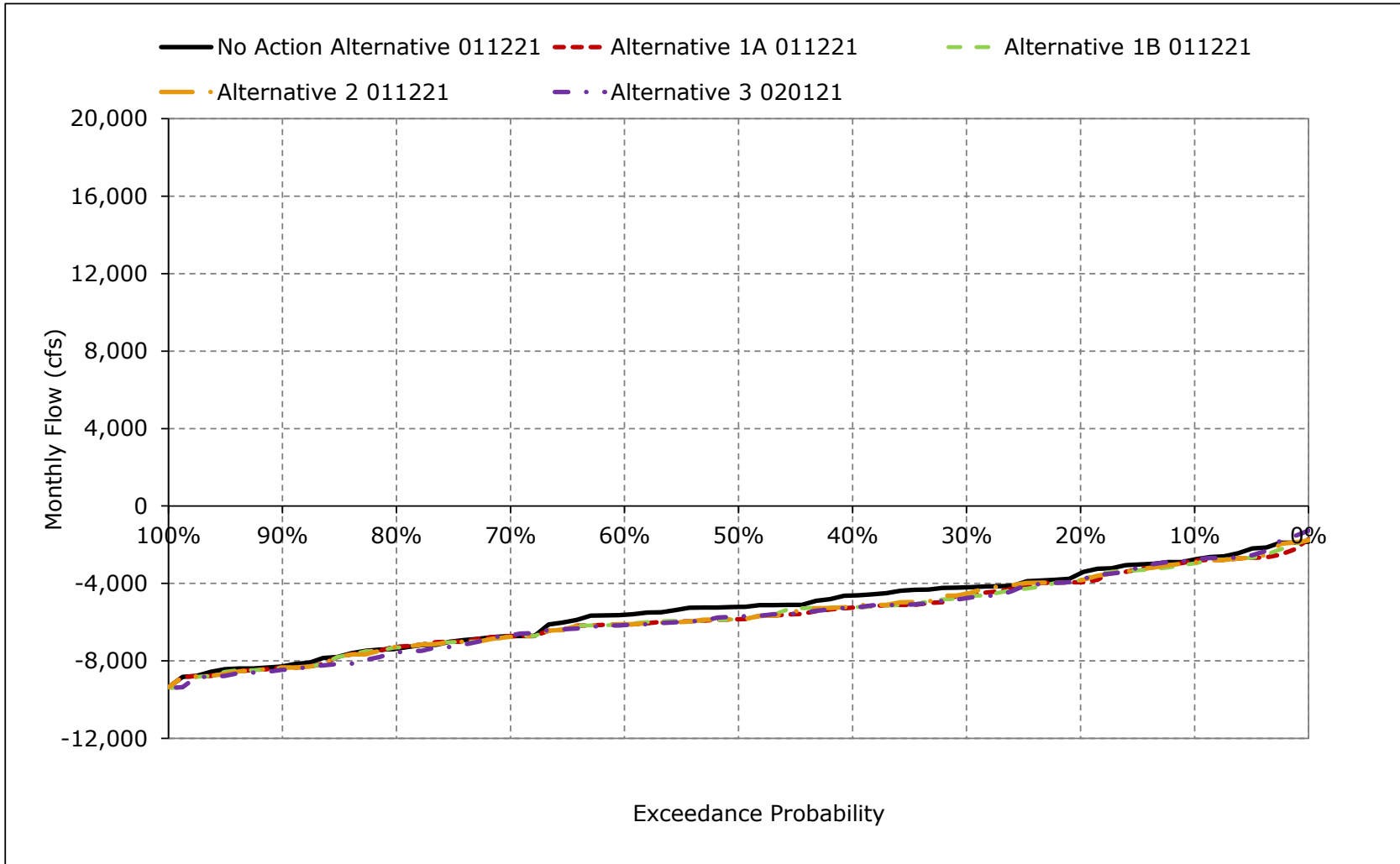
**Figure 5B3-6-6. Old and Middle River Flow, Critical Year Average Flow**



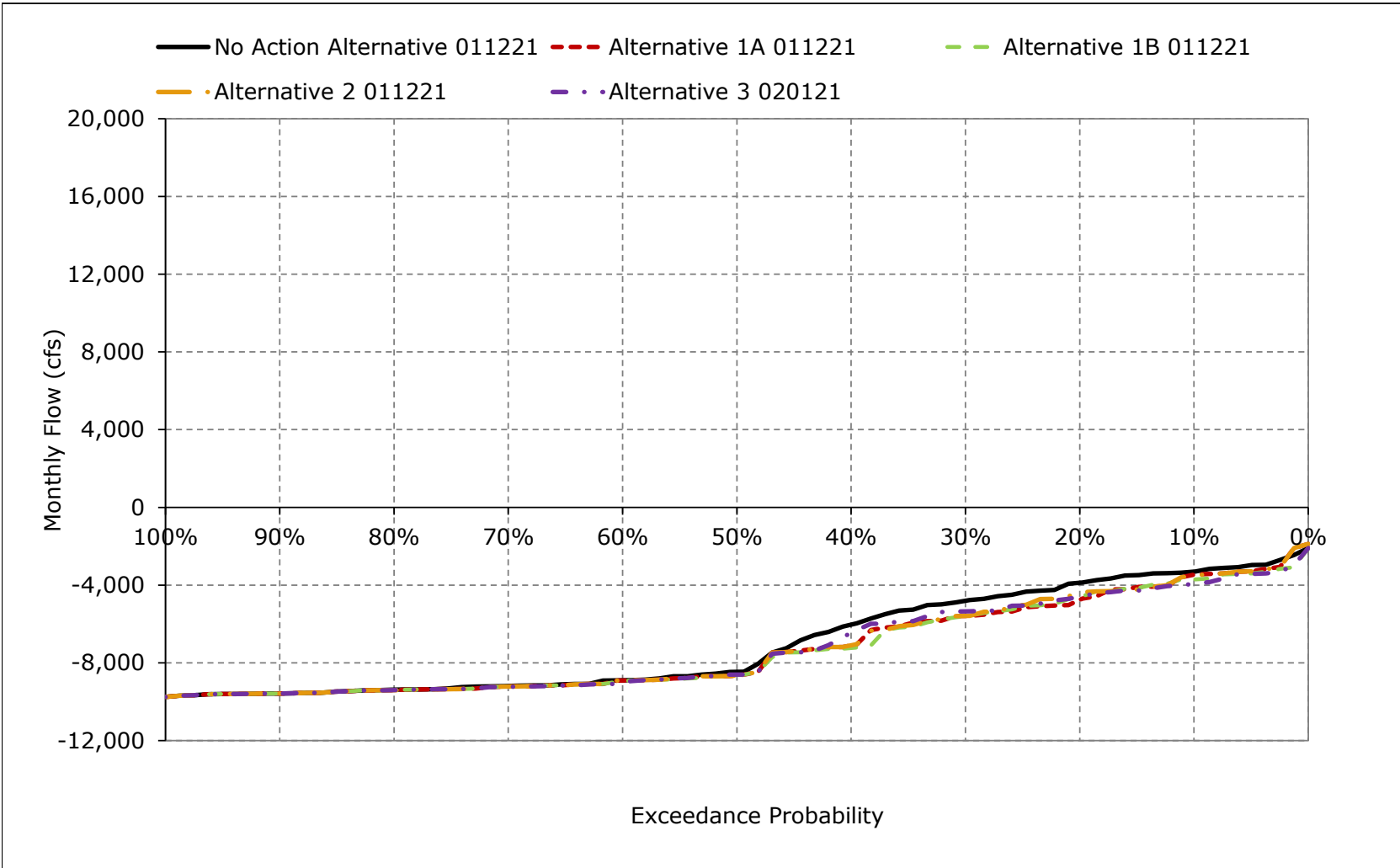
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with calendar year - year type sorting.

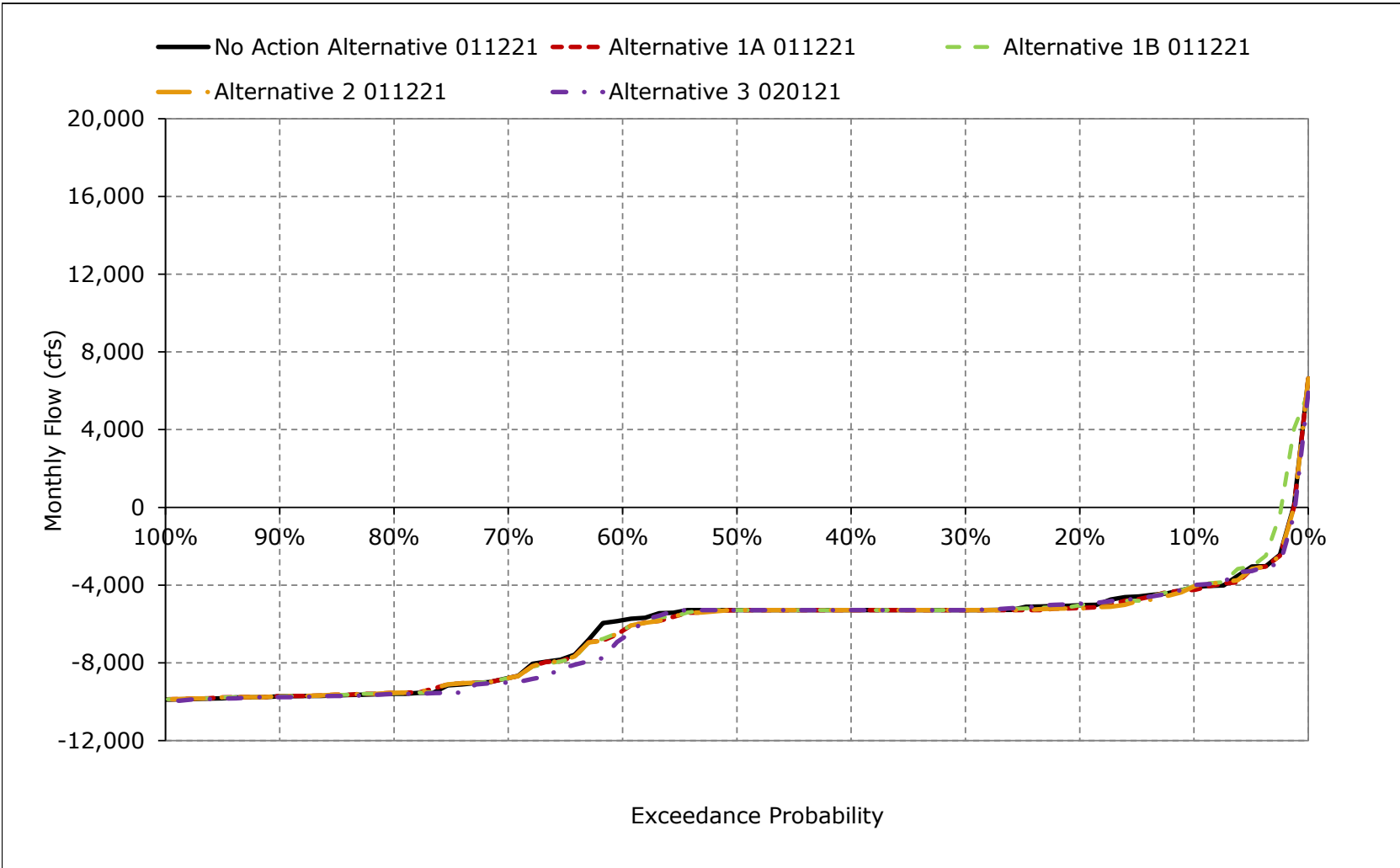
**Figure 5B3-6-7. Old and Middle River Flow, October**



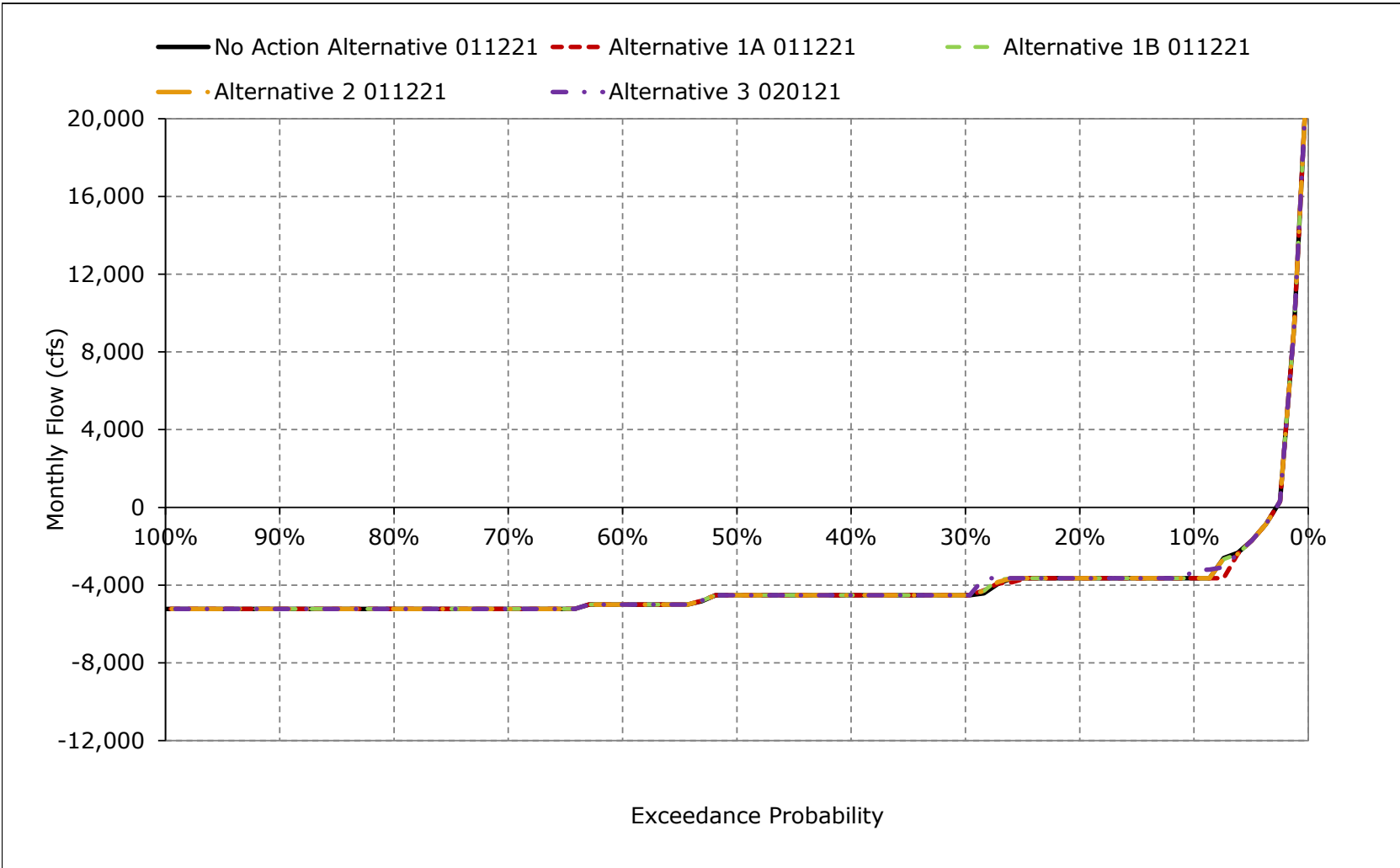
**Figure 5B3-6-8. Old and Middle River Flow, November**



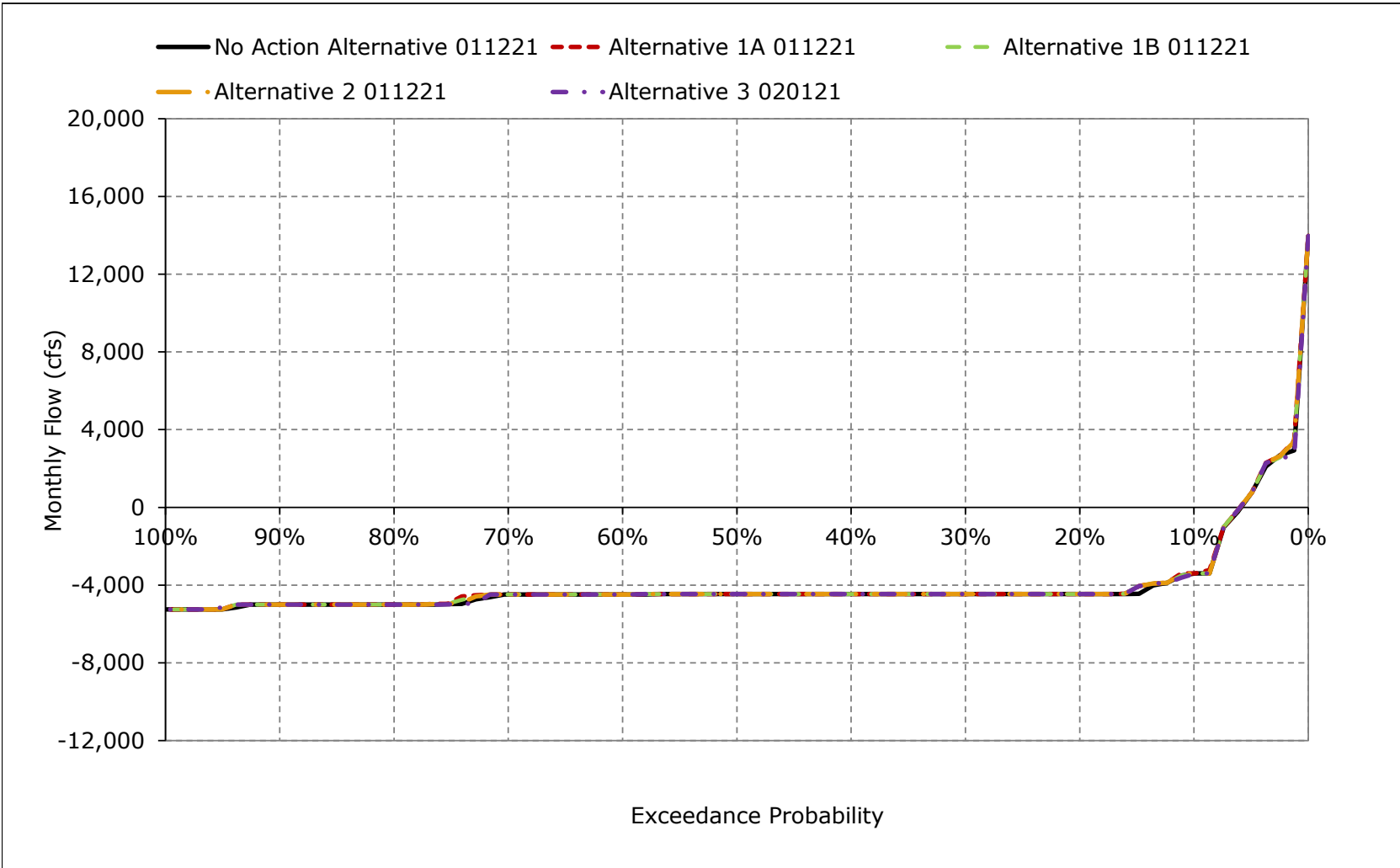
**Figure 5B3-6-9. Old and Middle River Flow, December**



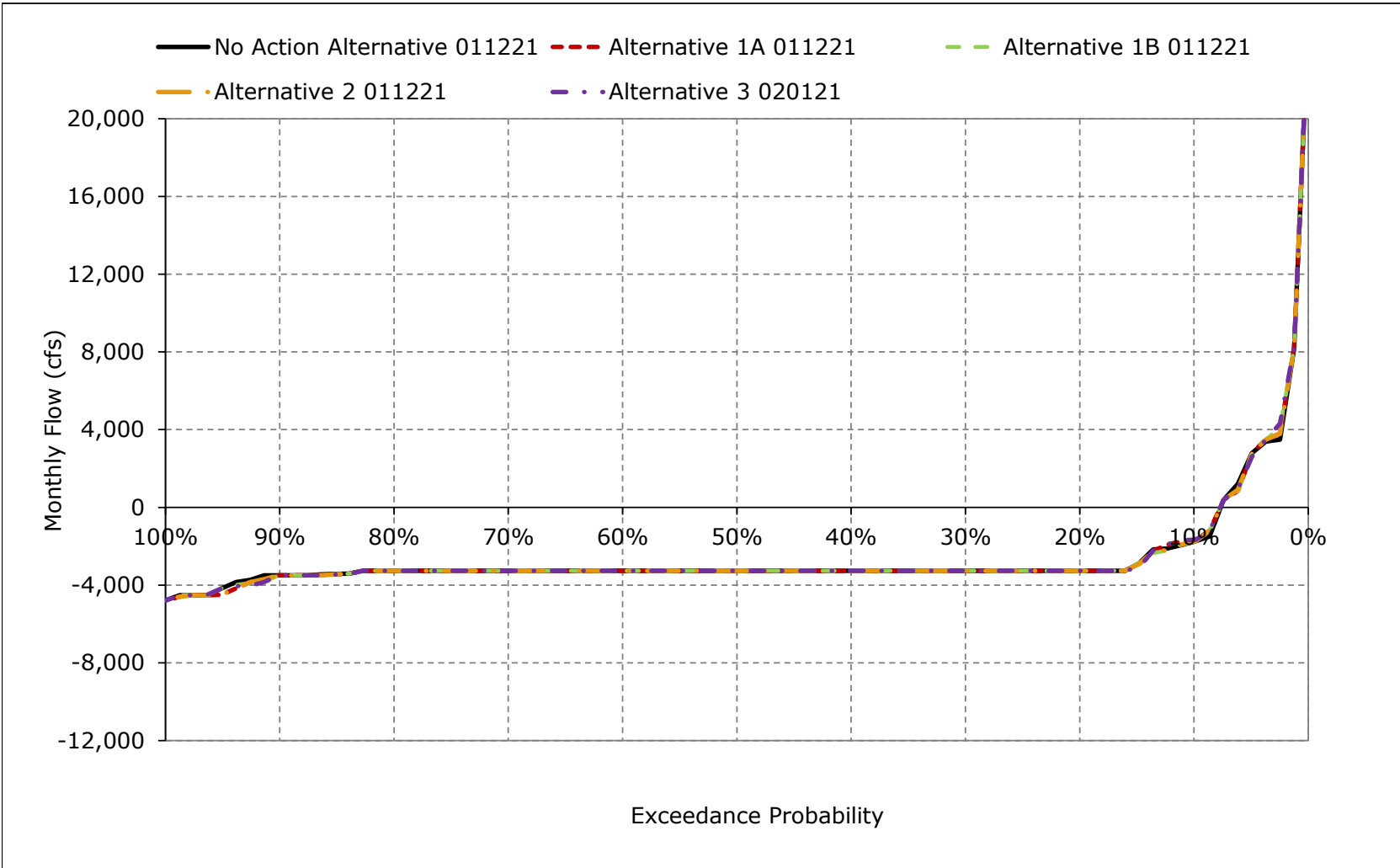
**Figure 5B3-6-10. Old and Middle River Flow, January**



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

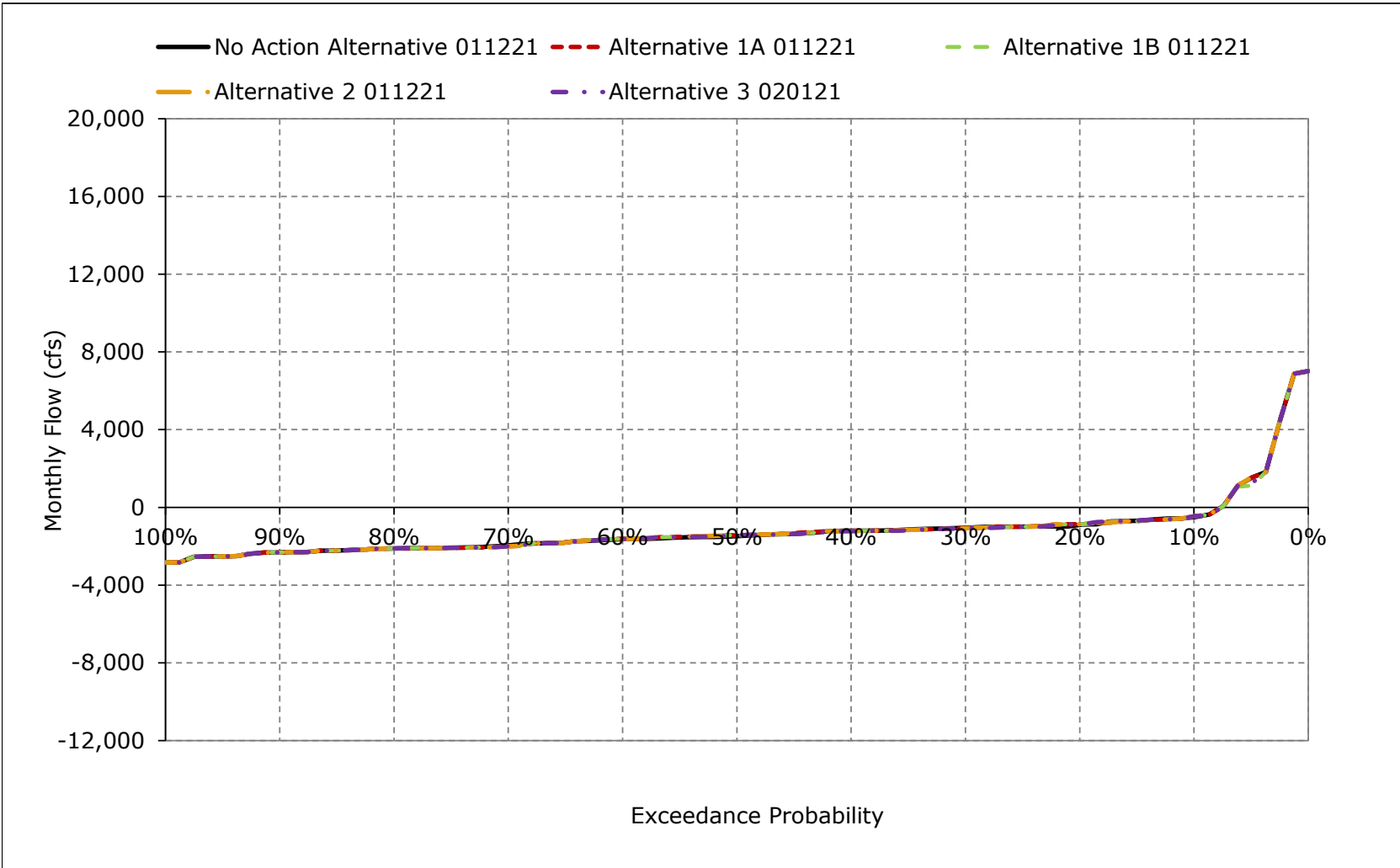


**Figure 5B3-6-12. Old and Middle River Flow, March**

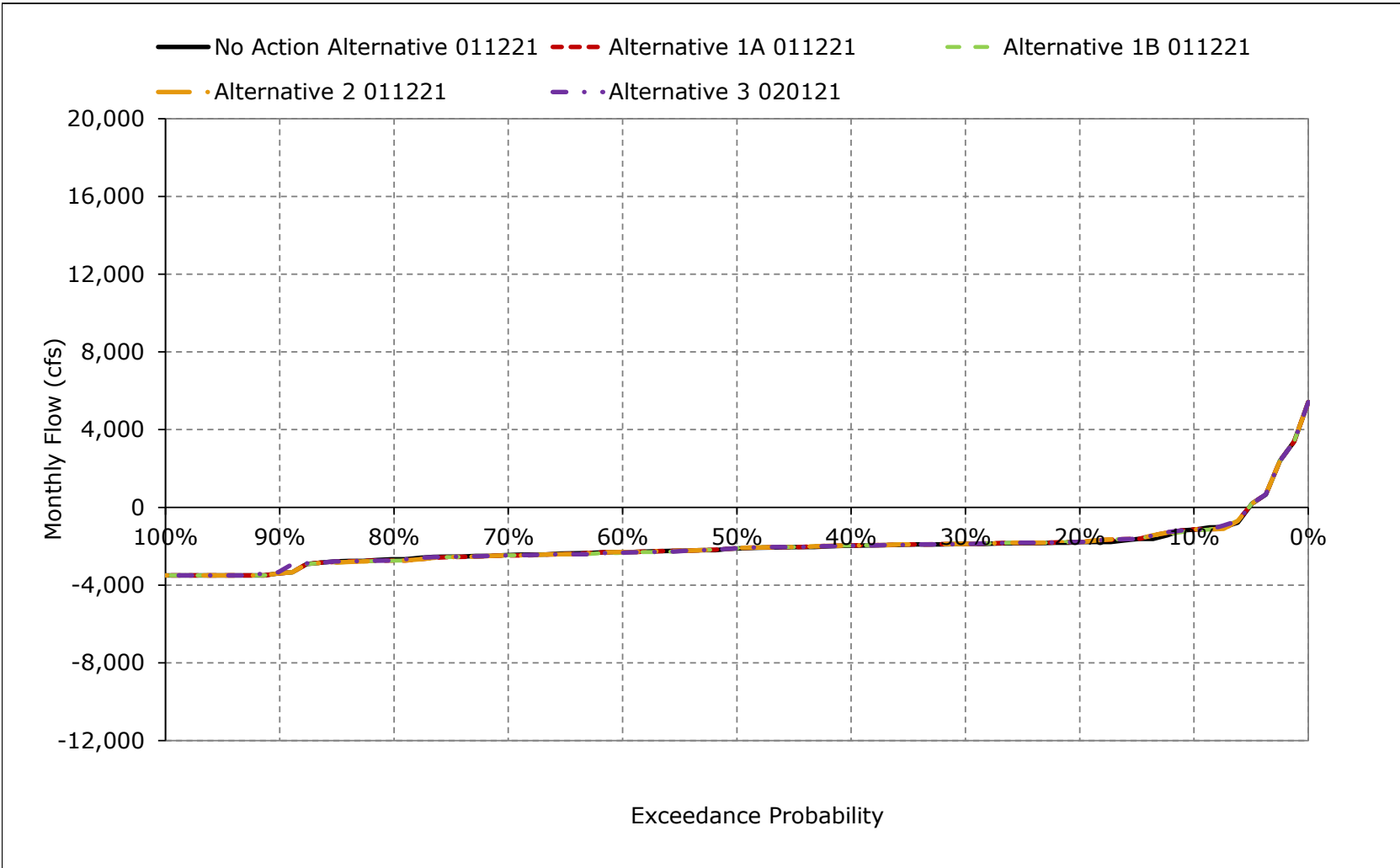




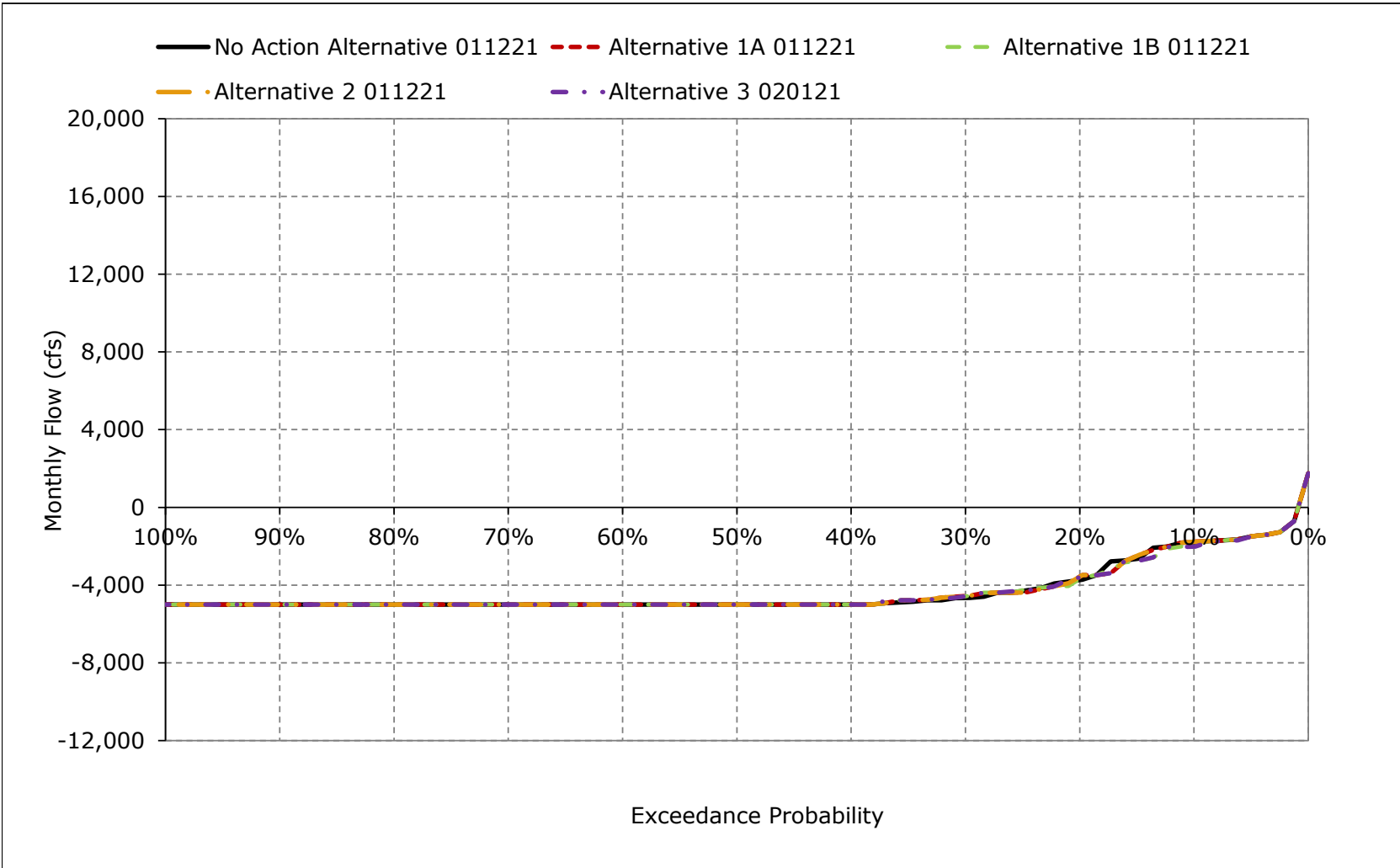
**Figure 5B3-6-13. Old and Middle River Flow, April**



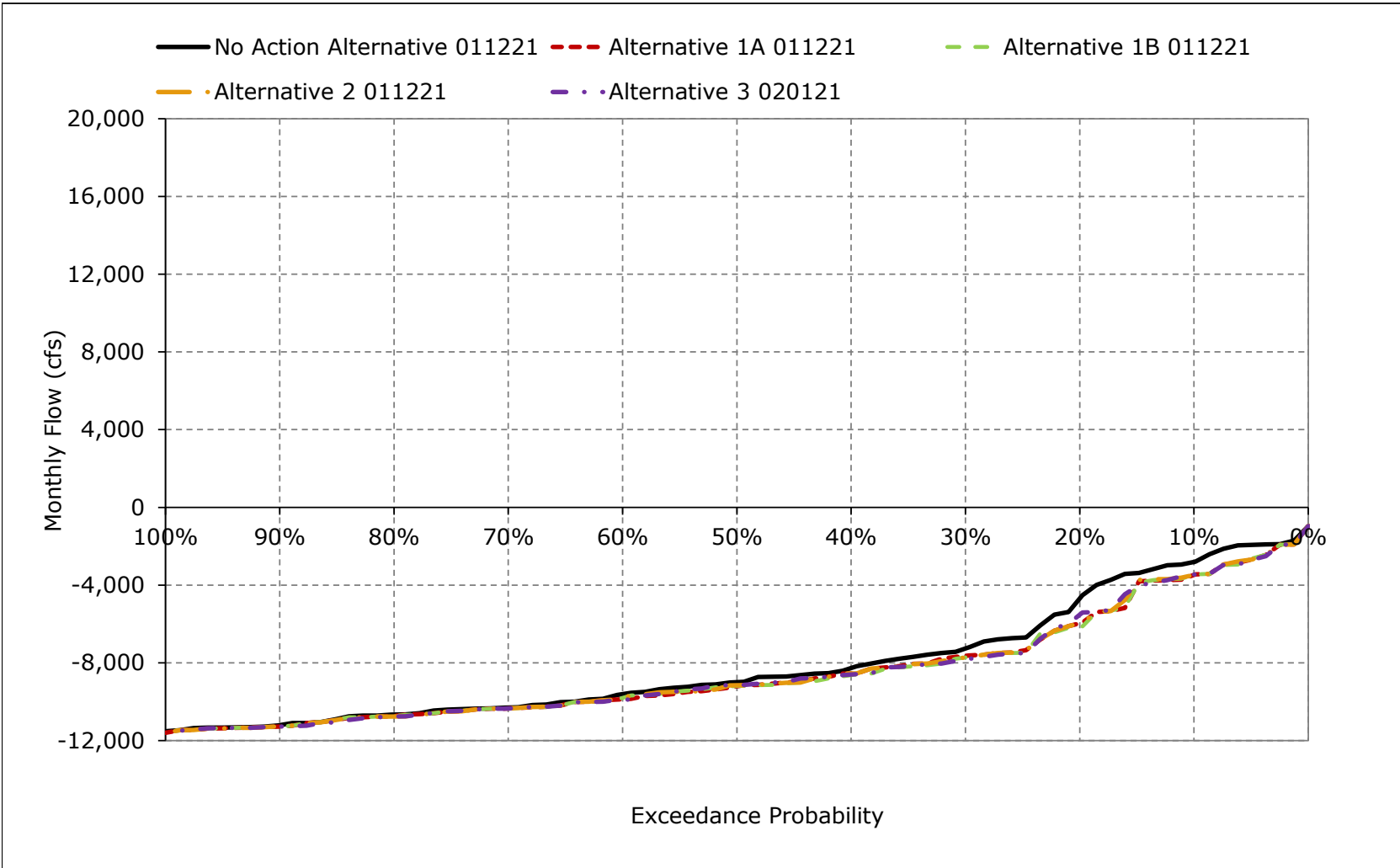
**Figure 5B3-6-14. Old and Middle River Flow, May**



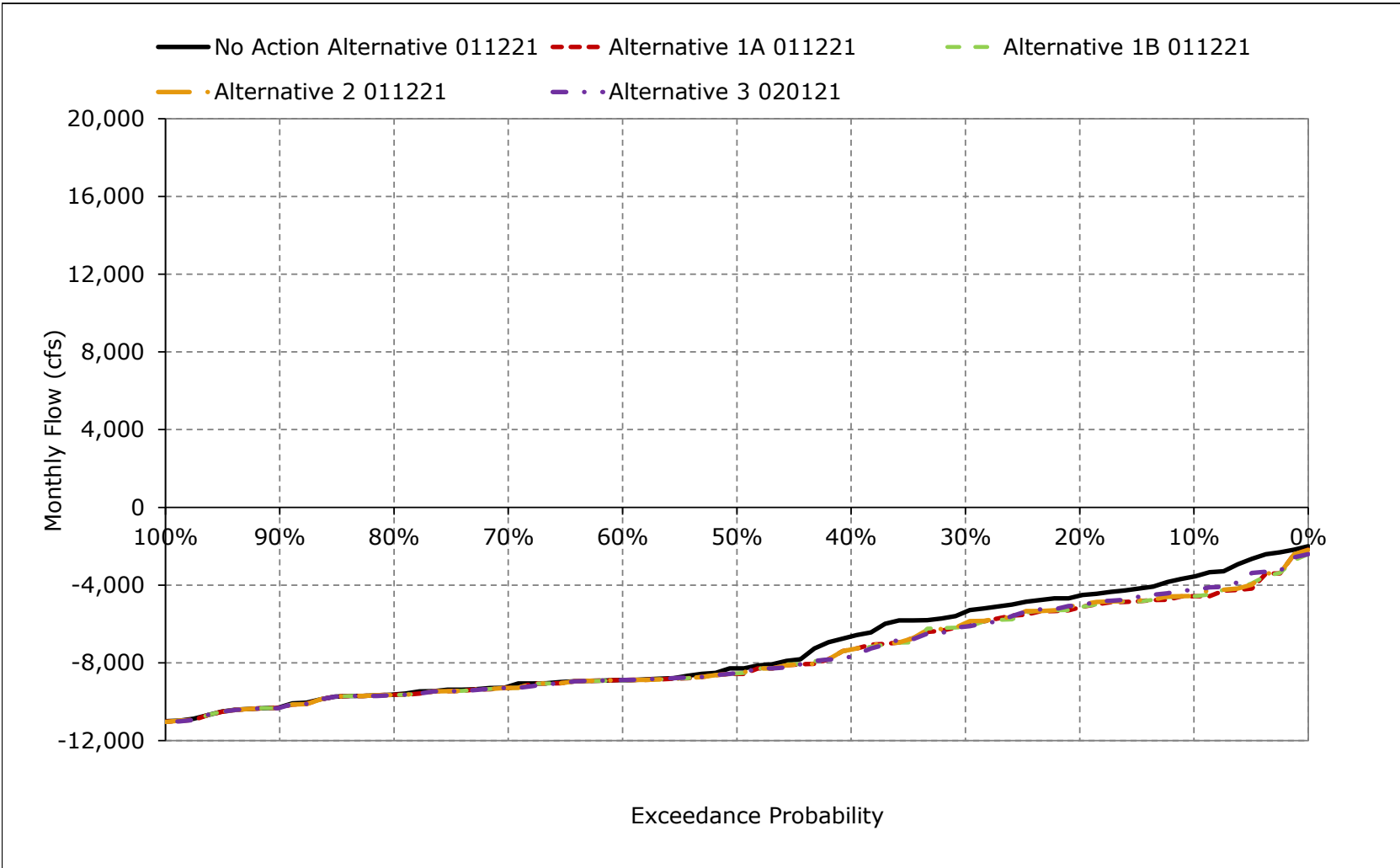
**Figure 5B3-6-15. Old and Middle River Flow, June**



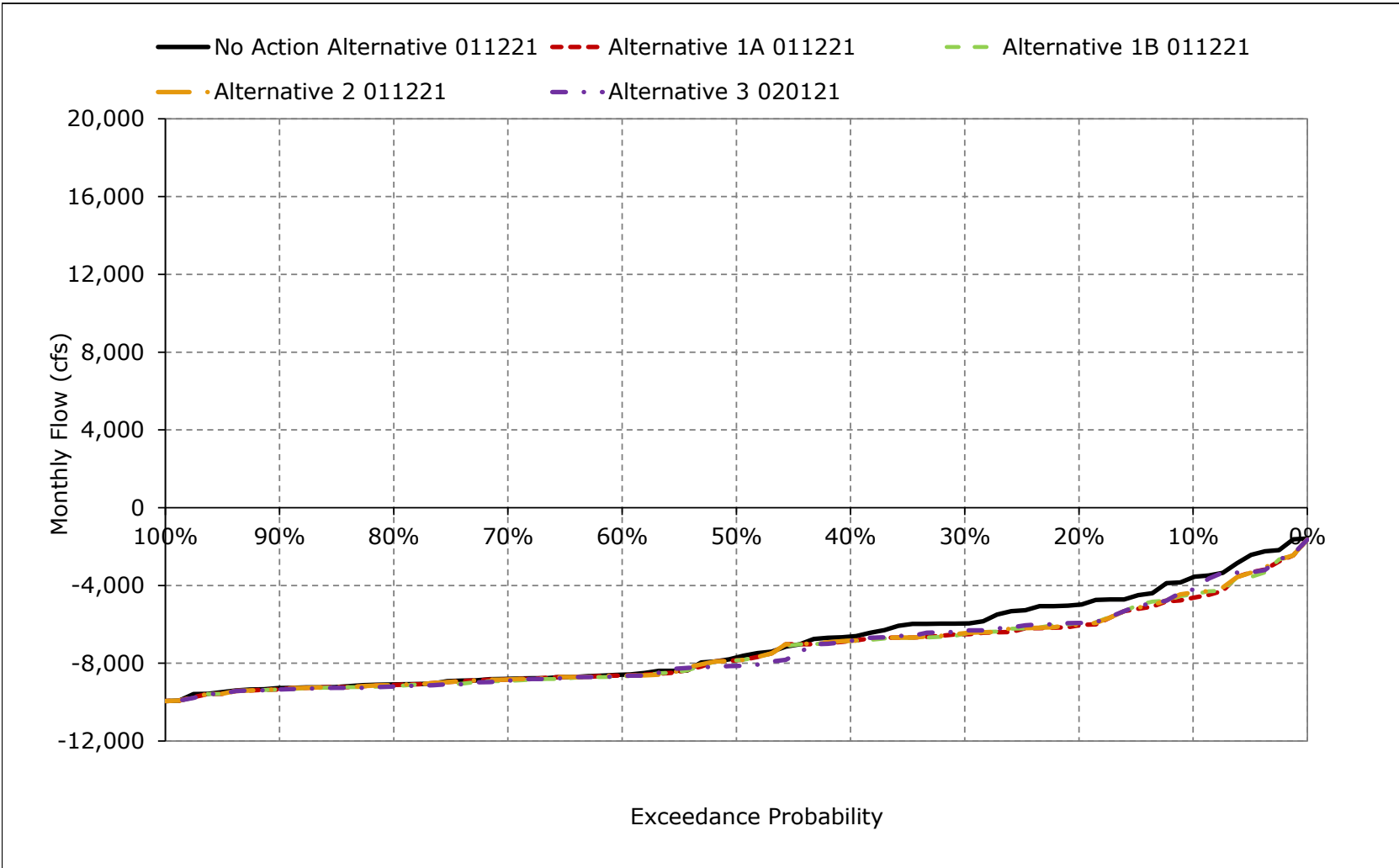
**Figure 5B3-6-16. Old and Middle River Flow, July**



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



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



**Table 5B3-7-1a. San Joaquin River at Vernalis, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	3,290	2,898	4,217	10,826	13,951	14,996	13,637	12,723	12,058	7,285	3,349	3,276
20%	2,913	2,582	2,710	5,216	9,726	9,482	10,137	7,705	7,681	3,692	2,801	2,725
30%	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,663	3,180	2,644	2,482	2,532
40%	2,622	2,006	2,029	2,657	4,429	4,840	7,320	4,508	2,418	1,743	2,198	2,383
50%	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,016	2,110	1,547	1,480	1,935
60%	2,276	1,739	1,761	2,071	2,705	3,001	4,666	3,350	1,782	1,407	1,404	1,824
70%	2,129	1,635	1,628	1,759	2,247	2,214	3,204	2,288	1,446	1,198	1,333	1,748
80%	1,961	1,513	1,501	1,538	1,852	1,719	2,567	2,057	1,315	1,101	1,237	1,658
90%	1,684	1,377	1,339	1,349	1,584	1,536	1,574	1,419	991	934	1,060	1,464
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	2,523	2,333	3,090	4,732	6,350	6,636	7,143	5,620	4,502	3,246	2,089	2,323
<b>Water Year Types<sup>b,c</sup></b>												
Wet (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 (15%)	2,611	2,058	2,450	4,077	6,370	7,011	7,685	5,702	4,724	2,628	2,020	2,325
Below Normal (17%)	2,489	2,254	3,570	2,959	5,427	4,523	6,436	4,649	2,369	1,859	1,888	2,086
Dry (22%)	2,054	1,689	2,191	1,881	2,336	2,392	3,371	2,516	1,456	1,191	1,286	1,747
Critical (15%)	1,668	1,389	1,424	1,429	1,762	1,429	1,516	1,465	975	845	958	1,355

**Table 5B3-7-1b. San Joaquin River at Vernalis, Alternative 1A 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	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%	2,913	2,582	2,710	5,216	9,726	9,482	10,137	7,705	7,681	3,691	2,801	2,725
30%	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,662	3,181	2,644	2,482	2,532
40%	2,622	2,006	2,029	2,657	4,429	4,840	7,320	4,508	2,418	1,743	2,198	2,383
50%	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,016	2,110	1,547	1,480	1,935
60%	2,275	1,739	1,761	2,071	2,705	3,001	4,666	3,350	1,782	1,407	1,404	1,824
70%	2,129	1,635	1,628	1,759	2,247	2,214	3,204	2,288	1,446	1,198	1,333	1,748
80%	1,961	1,513	1,501	1,538	1,852	1,719	2,567	2,058	1,315	1,103	1,236	1,658
90%	1,684	1,377	1,339	1,349	1,584	1,536	1,574	1,418	992	934	1,060	1,464
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	2,523	2,333	3,090	4,732	6,350	6,636	7,143	5,620	4,502	3,246	2,089	2,323
<b>Water Year Types<sup>b,c</sup></b>												
Wet (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 (15%)	2,611	2,058	2,450	4,077	6,370	7,011	7,685	5,702	4,724	2,628	2,020	2,325
Below Normal (17%)	2,489	2,254	3,570	2,959	5,427	4,523	6,436	4,649	2,369	1,859	1,888	2,086
Dry (22%)	2,054	1,689	2,191	1,881	2,336	2,392	3,371	2,517	1,457	1,191	1,287	1,747
Critical (15%)	1,668	1,389	1,424	1,429	1,762	1,429	1,516	1,465	975	845	958	1,355

**Table 5B3-7-1c. San Joaquin River at Vernalis, Alternative 1A 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	1	0	2	-1	0
90%	0	0	0	0	0	0	0	-1	1	0	0	0
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B3-7-2a. San Joaquin River at Vernalis, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	3,290	2,898	4,217	10,826	13,951	14,996	13,637	12,723	12,058	7,285	3,349	3,276
20%	2,913	2,582	2,710	5,216	9,726	9,482	10,137	7,705	7,681	3,692	2,801	2,725
30%	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,663	3,180	2,644	2,482	2,532
40%	2,622	2,006	2,029	2,657	4,429	4,840	7,320	4,508	2,418	1,743	2,198	2,383
50%	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,016	2,110	1,547	1,480	1,935
60%	2,276	1,739	1,761	2,071	2,705	3,001	4,666	3,350	1,782	1,407	1,404	1,824
70%	2,129	1,635	1,628	1,759	2,247	2,214	3,204	2,288	1,446	1,198	1,333	1,748
80%	1,961	1,513	1,501	1,538	1,852	1,719	2,567	2,057	1,315	1,101	1,237	1,658
90%	1,684	1,377	1,339	1,349	1,584	1,536	1,574	1,419	991	934	1,060	1,464
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	2,523	2,333	3,090	4,732	6,350	6,636	7,143	5,620	4,502	3,246	2,089	2,323
<b>Water Year Types<sup>b,c</sup></b>												
Wet (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 (15%)	2,611	2,058	2,450	4,077	6,370	7,011	7,685	5,702	4,724	2,628	2,020	2,325
Below Normal (17%)	2,489	2,254	3,570	2,959	5,427	4,523	6,436	4,649	2,369	1,859	1,888	2,086
Dry (22%)	2,054	1,689	2,191	1,881	2,336	2,392	3,371	2,516	1,456	1,191	1,286	1,747
Critical (15%)	1,668	1,389	1,424	1,429	1,762	1,429	1,516	1,465	975	845	958	1,355

**Table 5B3-7-2b. San Joaquin River at Vernalis, Alternative 1B 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	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%	2,913	2,582	2,710	5,216	9,726	9,482	10,137	7,705	7,681	3,692	2,801	2,725
30%	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,662	3,181	2,644	2,482	2,532
40%	2,622	2,006	2,029	2,657	4,429	4,840	7,320	4,508	2,418	1,743	2,198	2,383
50%	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,016	2,110	1,547	1,480	1,935
60%	2,275	1,739	1,761	2,071	2,705	3,001	4,666	3,350	1,782	1,407	1,404	1,825
70%	2,129	1,635	1,628	1,759	2,247	2,214	3,203	2,288	1,446	1,198	1,336	1,748
80%	1,961	1,513	1,501	1,538	1,852	1,720	2,567	2,058	1,316	1,103	1,235	1,659
90%	1,684	1,377	1,339	1,349	1,584	1,536	1,574	1,418	993	934	1,060	1,464
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	2,523	2,333	3,090	4,732	6,350	6,636	7,143	5,620	4,502	3,247	2,089	2,324
<b>Water Year Types<sup>b,c</sup></b>												
Wet (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 (15%)	2,611	2,058	2,450	4,077	6,370	7,011	7,685	5,702	4,724	2,628	2,020	2,325
Below Normal (17%)	2,489	2,254	3,570	2,959	5,427	4,523	6,436	4,649	2,369	1,859	1,888	2,086
Dry (22%)	2,054	1,689	2,191	1,881	2,336	2,392	3,371	2,517	1,457	1,191	1,287	1,747
Critical (15%)	1,668	1,389	1,424	1,429	1,762	1,429	1,516	1,465	975	845	958	1,356

**Table 5B3-7-2c. San Joaquin River at Vernalis, Alternative 1B 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	1
70%	1	0	0	0	0	0	0	0	0	0	4	0
80%	0	0	0	0	0	0	0	1	0	2	-2	0
90%	0	0	0	0	0	0	0	-1	1	0	0	0
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	1	1	1	1	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.



**Table 5B3-7-3a. San Joaquin River at Vernalis, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	3,290	2,898	4,217	10,826	13,951	14,996	13,637	12,723	12,058	7,285	3,349	3,276
20%	2,913	2,582	2,710	5,216	9,726	9,482	10,137	7,705	7,681	3,692	2,801	2,725
30%	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,663	3,180	2,644	2,482	2,532
40%	2,622	2,006	2,029	2,657	4,429	4,840	7,320	4,508	2,418	1,743	2,198	2,383
50%	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,016	2,110	1,547	1,480	1,935
60%	2,276	1,739	1,761	2,071	2,705	3,001	4,666	3,350	1,782	1,407	1,404	1,824
70%	2,129	1,635	1,628	1,759	2,247	2,214	3,204	2,288	1,446	1,198	1,333	1,748
80%	1,961	1,513	1,501	1,538	1,852	1,719	2,567	2,057	1,315	1,101	1,237	1,658
90%	1,684	1,377	1,339	1,349	1,584	1,536	1,574	1,419	991	934	1,060	1,464
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	2,523	2,333	3,090	4,732	6,350	6,636	7,143	5,620	4,502	3,246	2,089	2,323
<b>Water Year Types<sup>b,c</sup></b>												
Wet (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 (15%)	2,611	2,058	2,450	4,077	6,370	7,011	7,685	5,702	4,724	2,628	2,020	2,325
Below Normal (17%)	2,489	2,254	3,570	2,959	5,427	4,523	6,436	4,649	2,369	1,859	1,888	2,086
Dry (22%)	2,054	1,689	2,191	1,881	2,336	2,392	3,371	2,516	1,456	1,191	1,286	1,747
Critical (15%)	1,668	1,389	1,424	1,429	1,762	1,429	1,516	1,465	975	845	958	1,355

**Table 5B3-7-3b. San Joaquin River at Vernalis, Alternative 2 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	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%	2,913	2,582	2,710	5,216	9,726	9,482	10,137	7,705	7,681	3,691	2,801	2,725
30%	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,662	3,181	2,644	2,482	2,532
40%	2,622	2,006	2,029	2,657	4,429	4,840	7,320	4,508	2,419	1,743	2,198	2,383
50%	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,016	2,110	1,547	1,480	1,935
60%	2,275	1,739	1,761	2,071	2,705	3,001	4,666	3,350	1,782	1,407	1,404	1,824
70%	2,129	1,635	1,628	1,759	2,247	2,214	3,204	2,288	1,446	1,198	1,333	1,748
80%	1,961	1,513	1,501	1,538	1,852	1,719	2,567	2,058	1,315	1,103	1,236	1,658
90%	1,684	1,377	1,339	1,349	1,584	1,536	1,574	1,418	992	934	1,060	1,464
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	2,523	2,333	3,090	4,732	6,350	6,636	7,143	5,620	4,502	3,246	2,089	2,323
<b>Water Year Types<sup>b,c</sup></b>												
Wet (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 (15%)	2,611	2,058	2,450	4,077	6,370	7,011	7,685	5,702	4,724	2,628	2,020	2,325
Below Normal (17%)	2,489	2,254	3,570	2,959	5,427	4,523	6,436	4,649	2,369	1,859	1,888	2,086
Dry (22%)	2,054	1,689	2,191	1,881	2,336	2,392	3,371	2,517	1,457	1,191	1,287	1,747
Critical (15%)	1,668	1,389	1,424	1,429	1,762	1,429	1,516	1,465	975	845	958	1,355

**Table 5B3-7-3c. San Joaquin River at Vernalis, Alternative 2 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	1	0	2	-1	0
90%	0	0	0	0	0	0	0	-1	1	0	0	0
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B3-7-4a. San Joaquin River at Vernalis, No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	3,290	2,898	4,217	10,826	13,951	14,996	13,637	12,723	12,058	7,285	3,349	3,276
20%	2,913	2,582	2,710	5,216	9,726	9,482	10,137	7,705	7,681	3,692	2,801	2,725
30%	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,663	3,180	2,644	2,482	2,532
40%	2,622	2,006	2,029	2,657	4,429	4,840	7,320	4,508	2,418	1,743	2,198	2,383
50%	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,016	2,110	1,547	1,480	1,935
60%	2,276	1,739	1,761	2,071	2,705	3,001	4,666	3,350	1,782	1,407	1,404	1,824
70%	2,129	1,635	1,628	1,759	2,247	2,214	3,204	2,288	1,446	1,198	1,333	1,748
80%	1,961	1,513	1,501	1,538	1,852	1,719	2,567	2,057	1,315	1,101	1,237	1,658
90%	1,684	1,377	1,339	1,349	1,584	1,536	1,574	1,419	991	934	1,060	1,464
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	2,523	2,333	3,090	4,732	6,350	6,636	7,143	5,620	4,502	3,246	2,089	2,323
<b>Water Year Types<sup>b,c</sup></b>												
Wet (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 (15%)	2,611	2,058	2,450	4,077	6,370	7,011	7,685	5,702	4,724	2,628	2,020	2,325
Below Normal (17%)	2,489	2,254	3,570	2,959	5,427	4,523	6,436	4,649	2,369	1,859	1,888	2,086
Dry (22%)	2,054	1,689	2,191	1,881	2,336	2,392	3,371	2,516	1,456	1,191	1,286	1,747
Critical (15%)	1,668	1,389	1,424	1,429	1,762	1,429	1,516	1,465	975	845	958	1,355

**Table 5B3-7-4b. San Joaquin River at Vernalis, Alternative 3 020121, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	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%	2,913	2,582	2,710	5,216	9,726	9,482	10,138	7,705	7,681	3,692	2,801	2,725
30%	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,663	3,181	2,645	2,482	2,532
40%	2,622	2,006	2,029	2,657	4,429	4,840	7,320	4,508	2,419	1,743	2,198	2,383
50%	2,457	1,855	1,872	2,278	3,499	3,622	6,235	4,016	2,110	1,547	1,480	1,935
60%	2,275	1,739	1,761	2,071	2,705	3,001	4,666	3,350	1,782	1,409	1,404	1,825
70%	2,129	1,635	1,628	1,759	2,247	2,214	3,203	2,288	1,446	1,198	1,338	1,748
80%	1,961	1,513	1,501	1,538	1,852	1,720	2,567	2,056	1,316	1,100	1,236	1,659
90%	1,684	1,377	1,339	1,349	1,584	1,536	1,575	1,419	995	934	1,060	1,464
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	2,523	2,333	3,090	4,732	6,350	6,636	7,143	5,620	4,502	3,247	2,089	2,324
<b>Water Year Types<sup>b,c</sup></b>												
Wet (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 (15%)	2,611	2,058	2,450	4,077	6,369	7,011	7,685	5,702	4,724	2,628	2,020	2,325
Below Normal (17%)	2,489	2,254	3,570	2,959	5,427	4,523	6,436	4,648	2,369	1,859	1,888	2,086
Dry (22%)	2,055	1,689	2,191	1,881	2,336	2,392	3,371	2,517	1,457	1,192	1,287	1,747
Critical (15%)	1,668	1,389	1,424	1,429	1,762	1,429	1,516	1,465	975	845	958	1,356

**Table 5B3-7-4c. San Joaquin River at Vernalis, Alternative 3 020121 minus No Action Alternative 011221, Monthly Flow (cfs)**

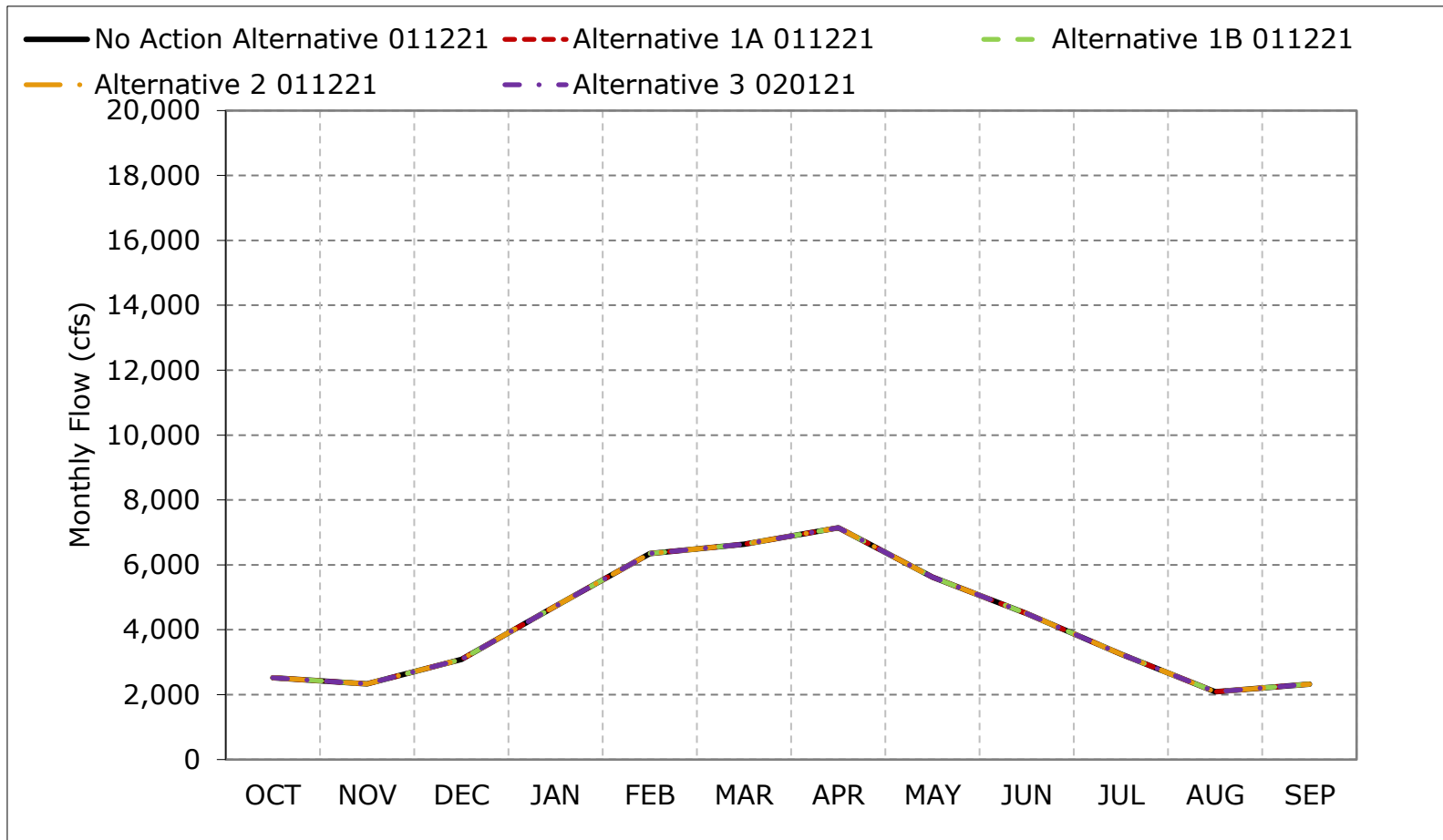
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	1	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	2	0	2
70%	0	0	0	0	0	0	0	1	0	0	6	0
80%	0	0	0	0	0	0	0	0	1	-1	-1	0
90%	0	0	0	0	0	0	0	0	4	0	0	0
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Water Year Types<sup>b,c</sup></b>												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	-1	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	1	1	1	1	0
Critical (15%)	0	0	0	0	0	0	0	1	0	0	0	0

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

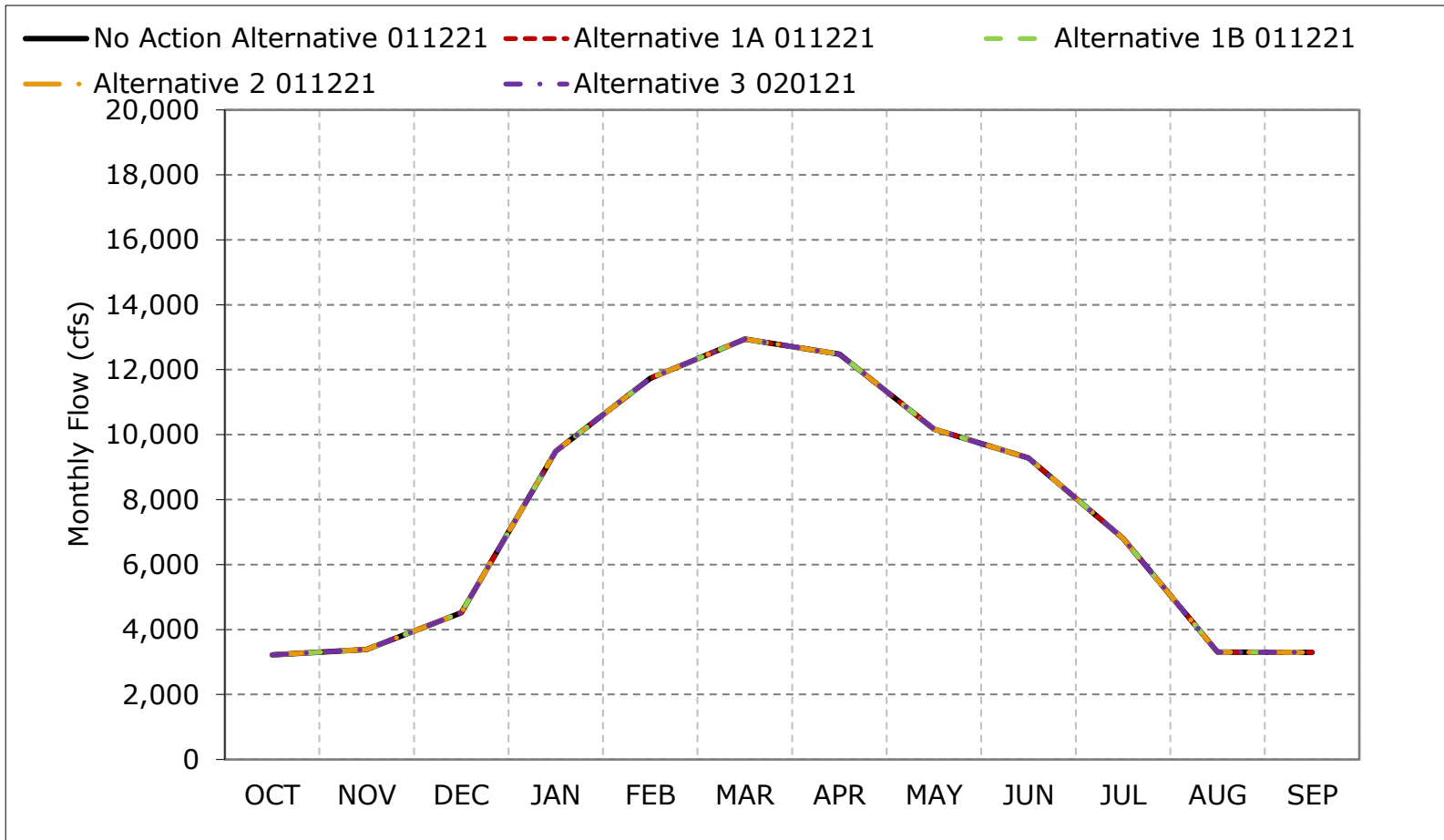
**Figure 5B3-7-1. San Joaquin River at Vernalis, Long-Term Average Flow**



\*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.

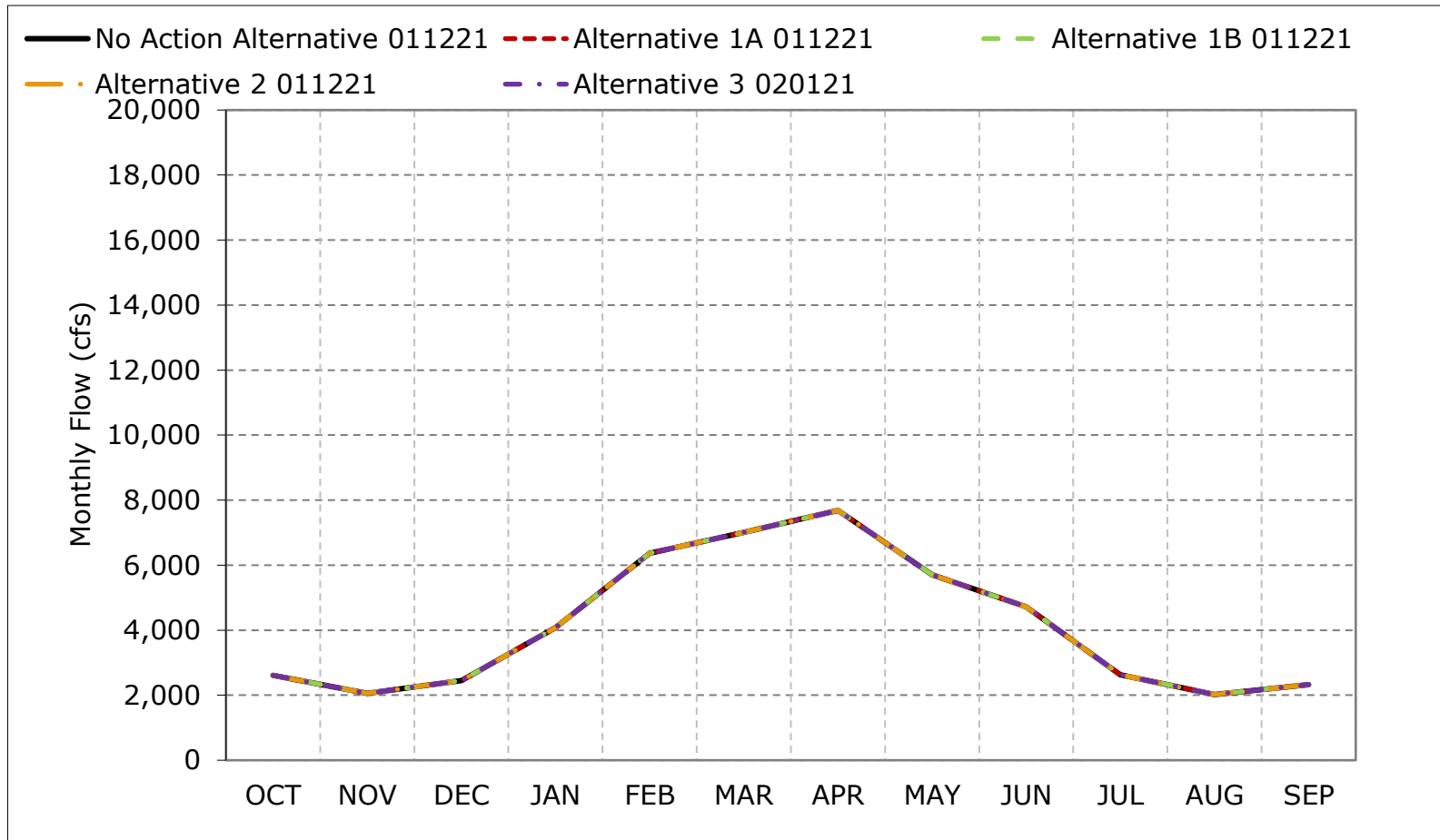
**Figure 5B3-7-2. San Joaquin River at Vernalis, Wet Year Average Flow**



\*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.

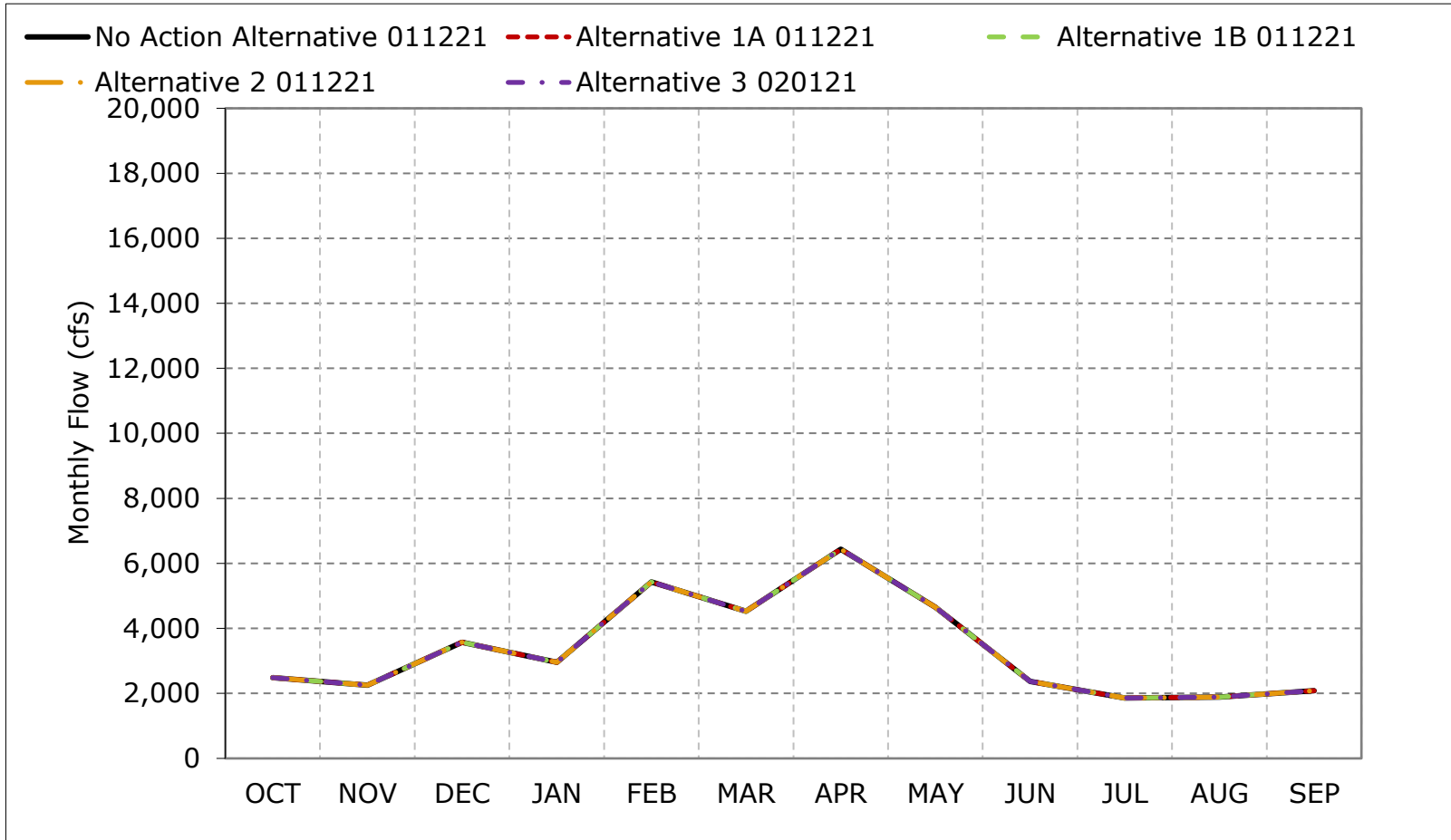
**Figure 5B3-7-3. San Joaquin River at Vernalis, Above Normal Year Average Flow**



\*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.

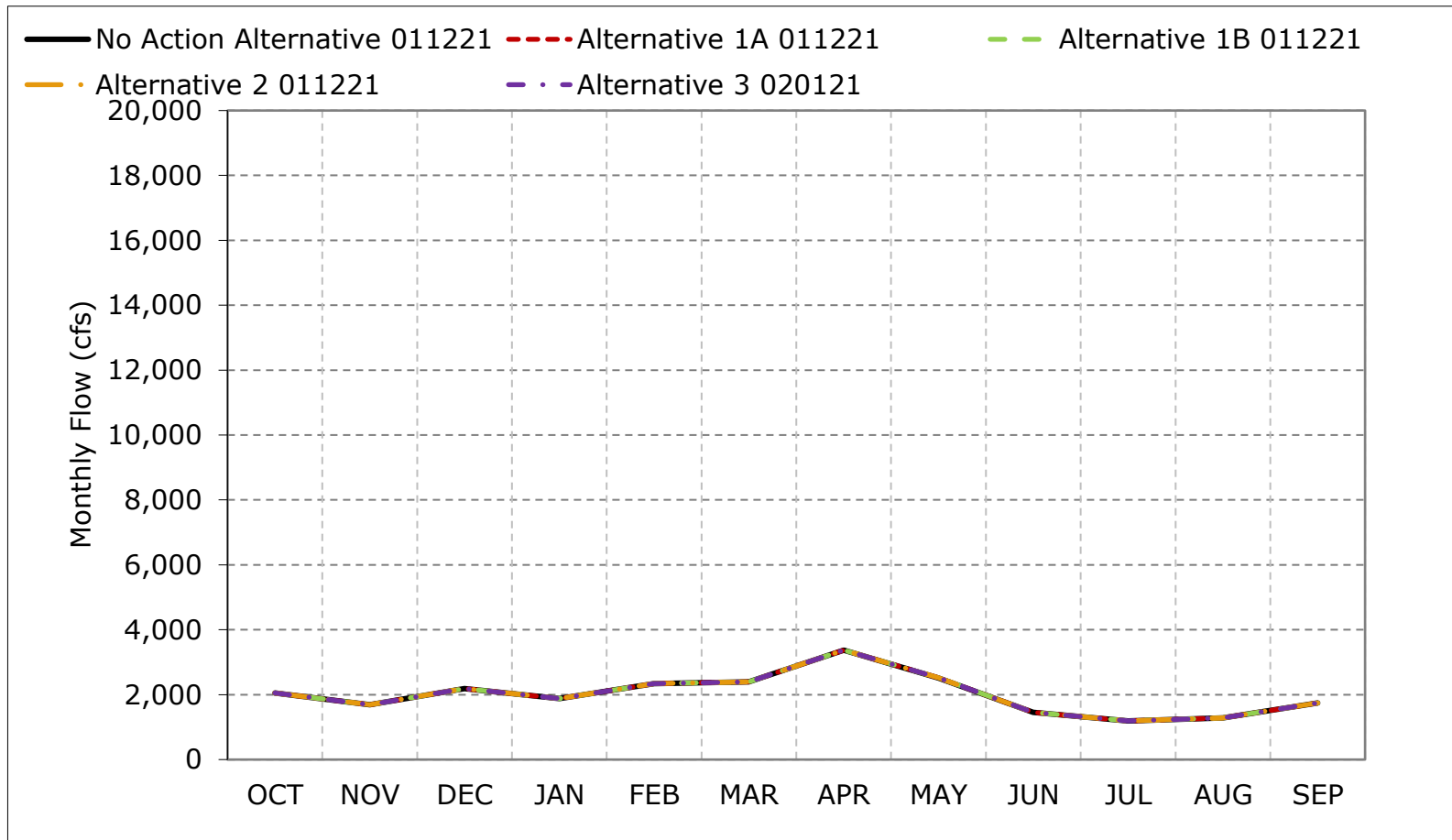
**Figure 5B3-7-4. San Joaquin River at Vernalis, Below Normal Year Average Flow**



\*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.

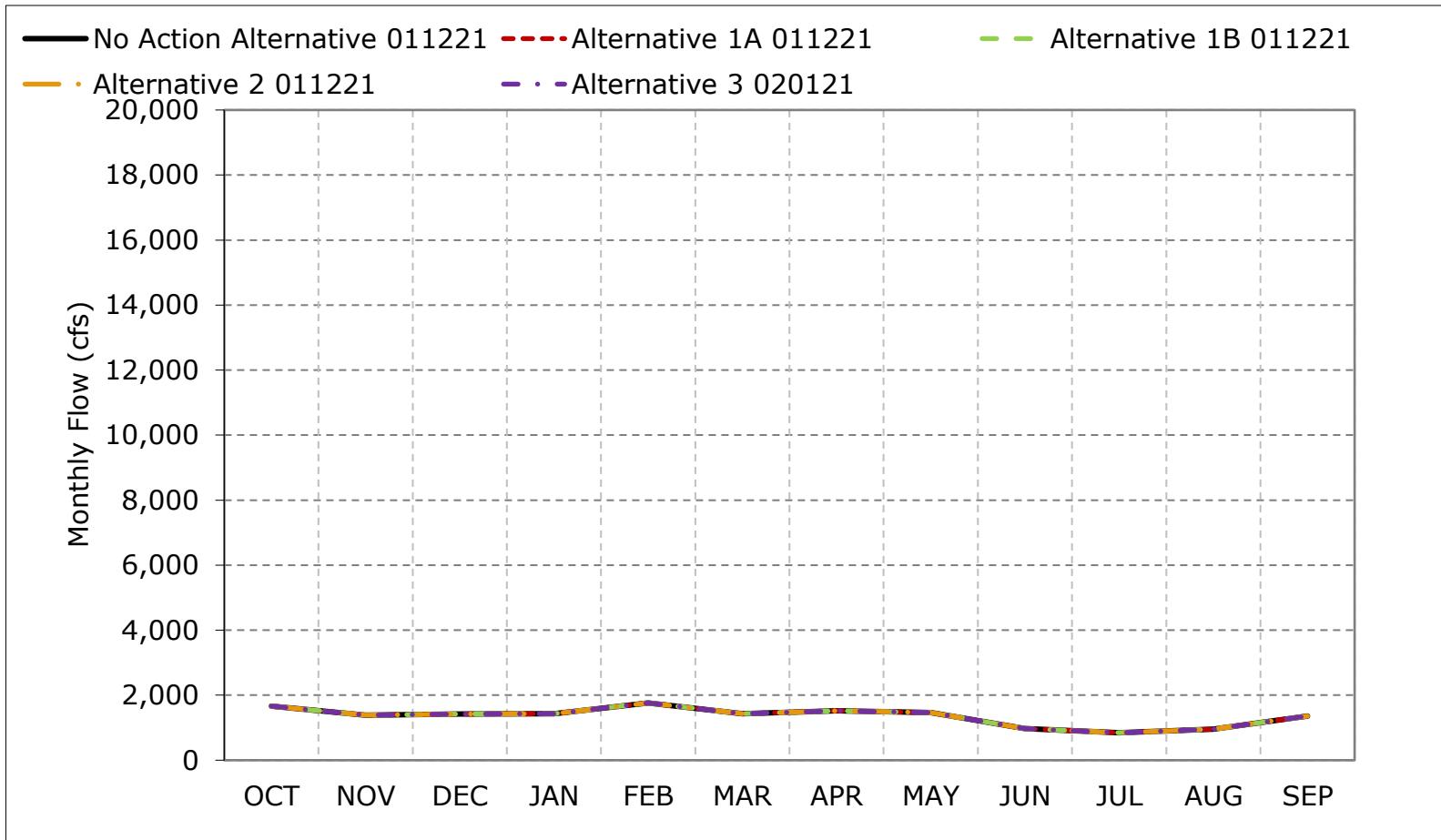
**Figure 5B3-7-5. San Joaquin River at Vernalis, Dry Year Average Flow**



\*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.

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

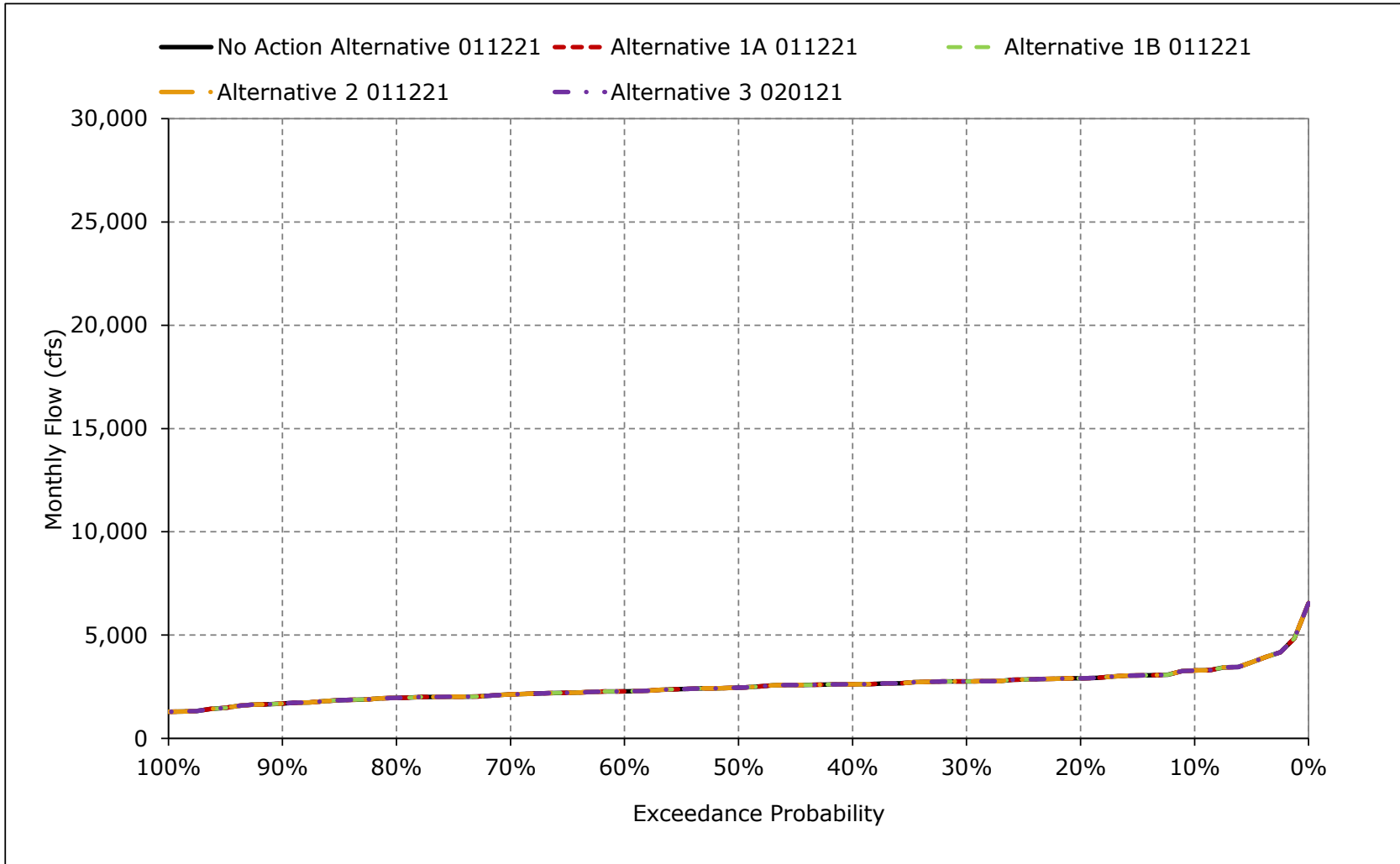


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

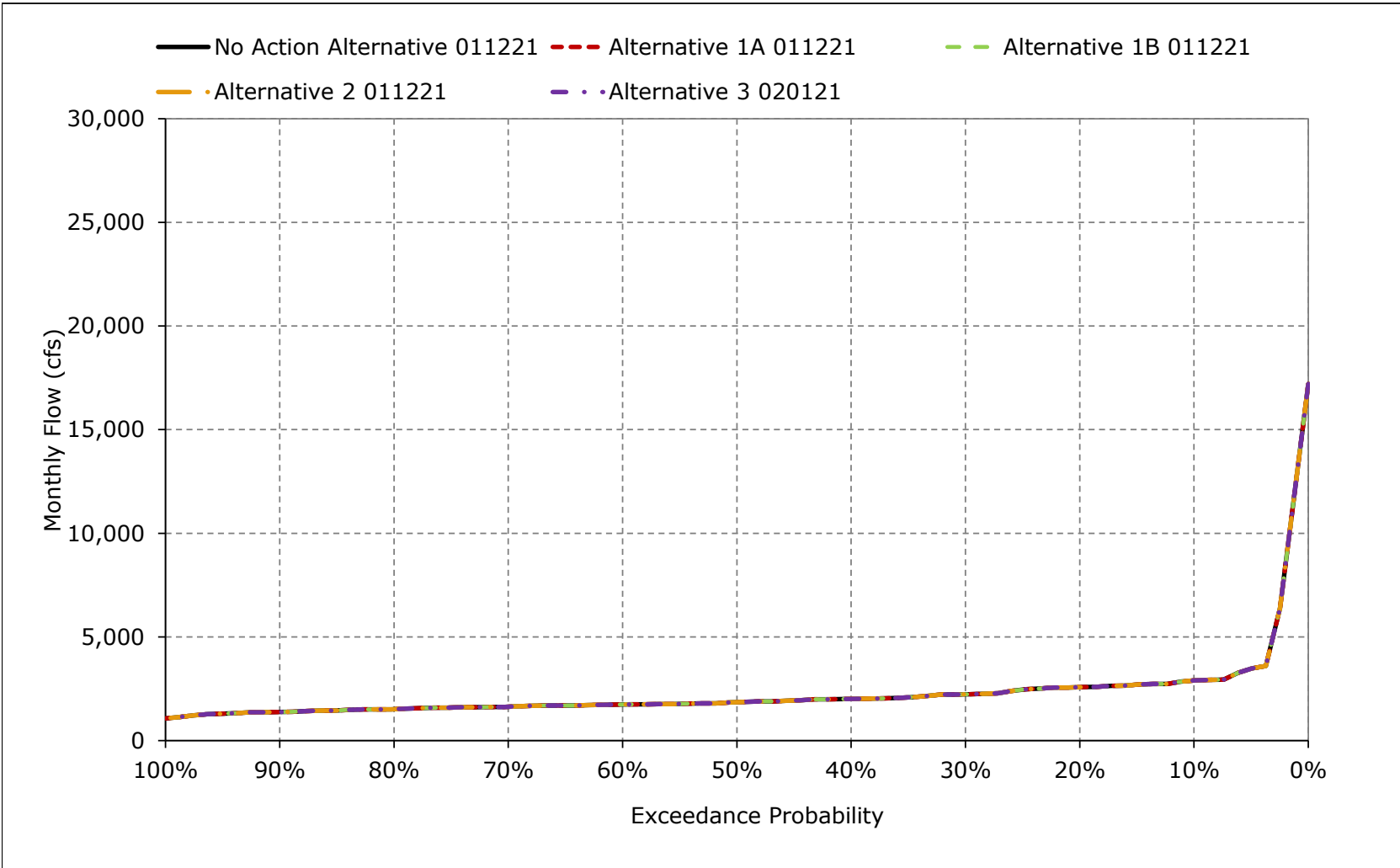
\*These results are displayed with calendar year - year type sorting.



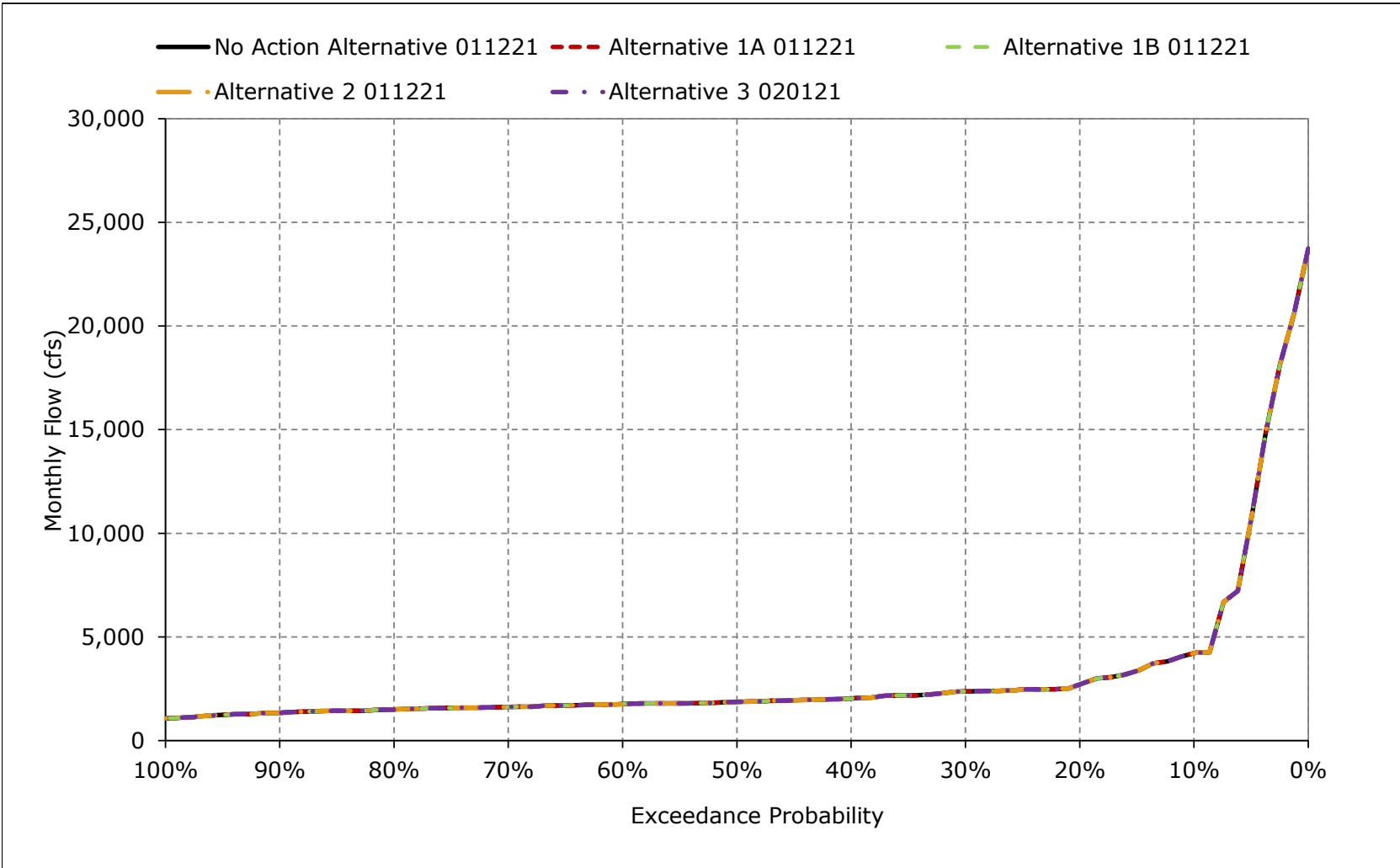
**Figure 5B3-7-7. San Joaquin River at Vernalis, October**



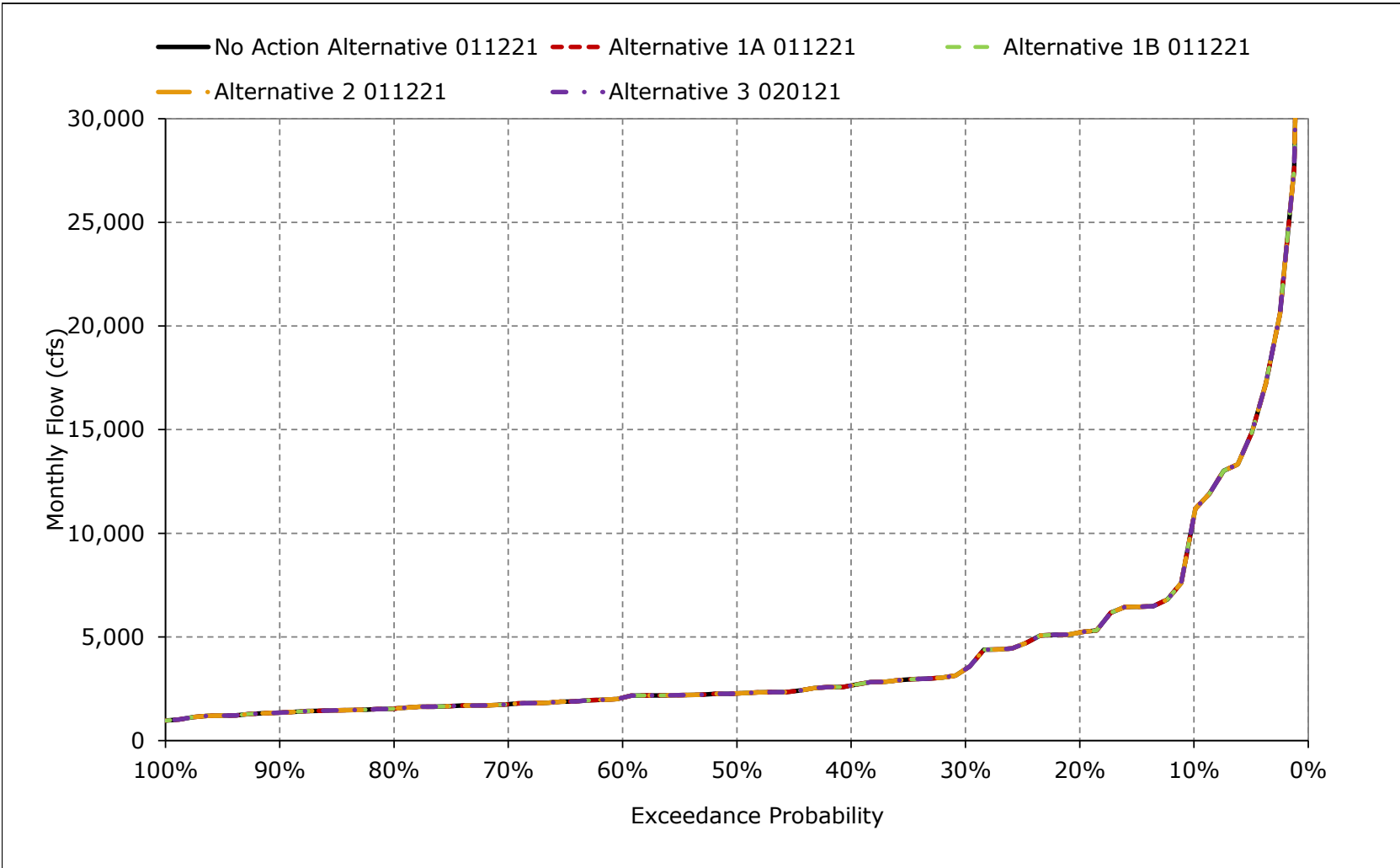
**Figure 5B3-7-8. San Joaquin River at Vernalis, November**



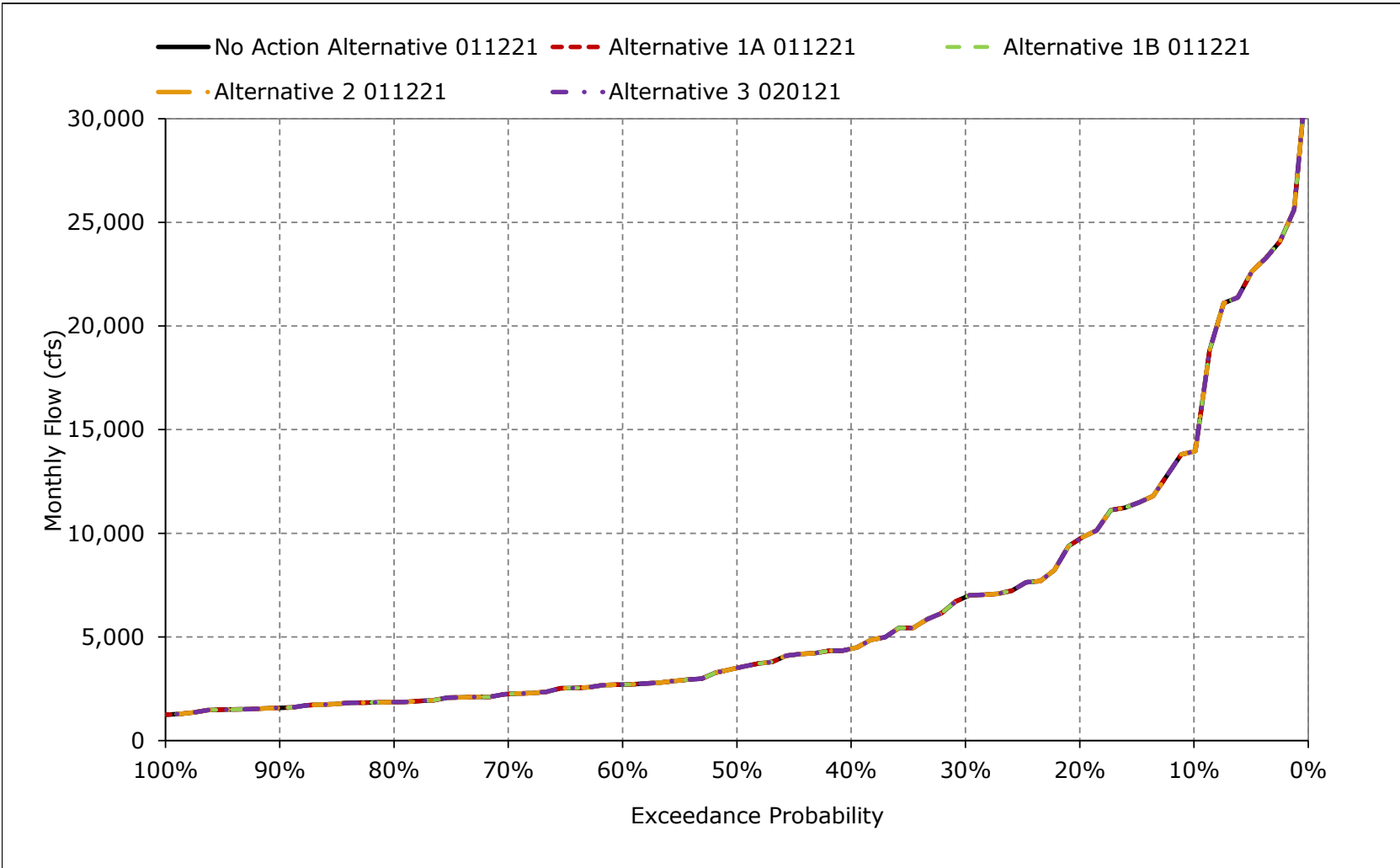
**Figure 5B3-7-9. San Joaquin River at Vernalis, December**



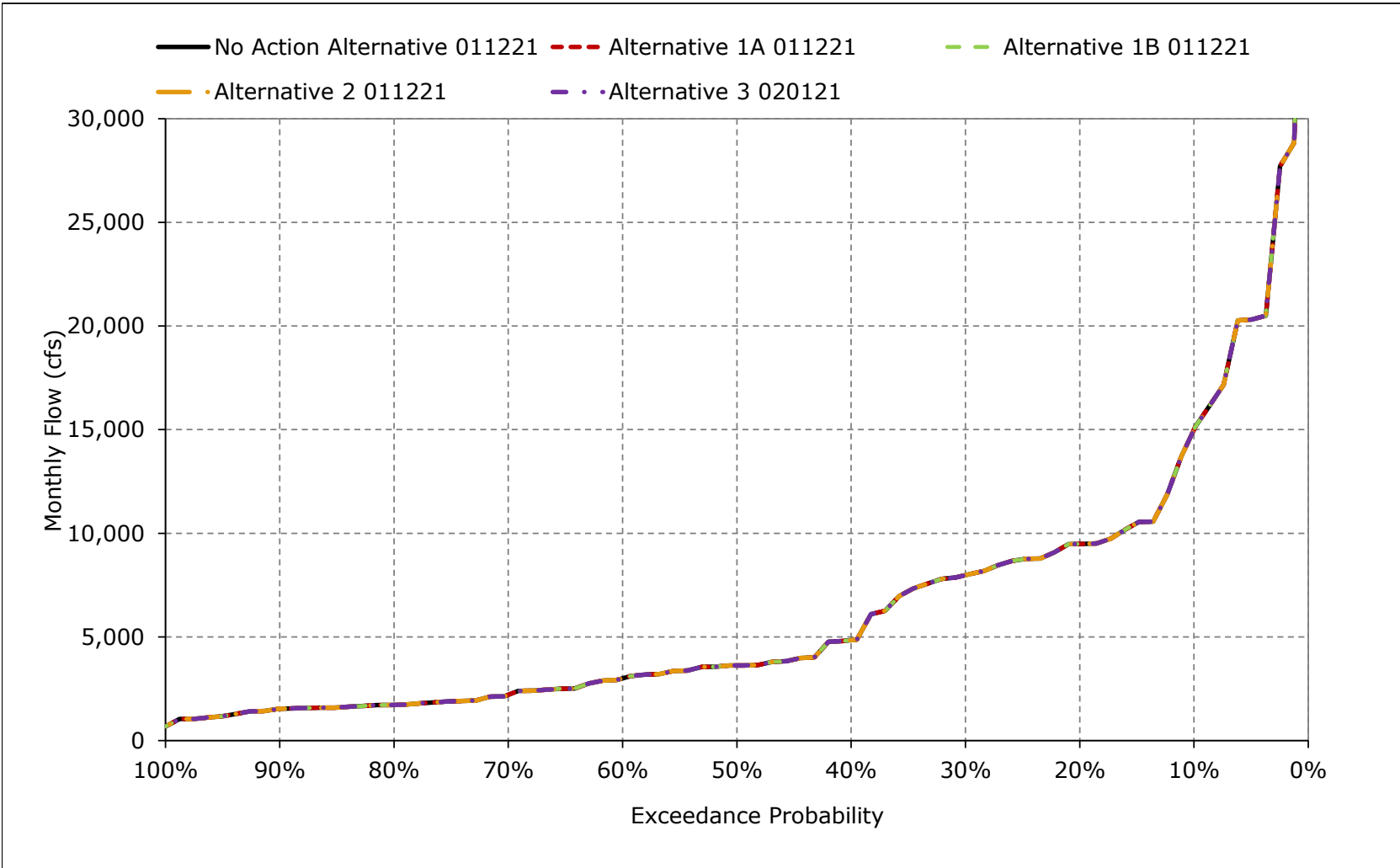
**Figure 5B3-7-10. San Joaquin River at Vernalis, January**



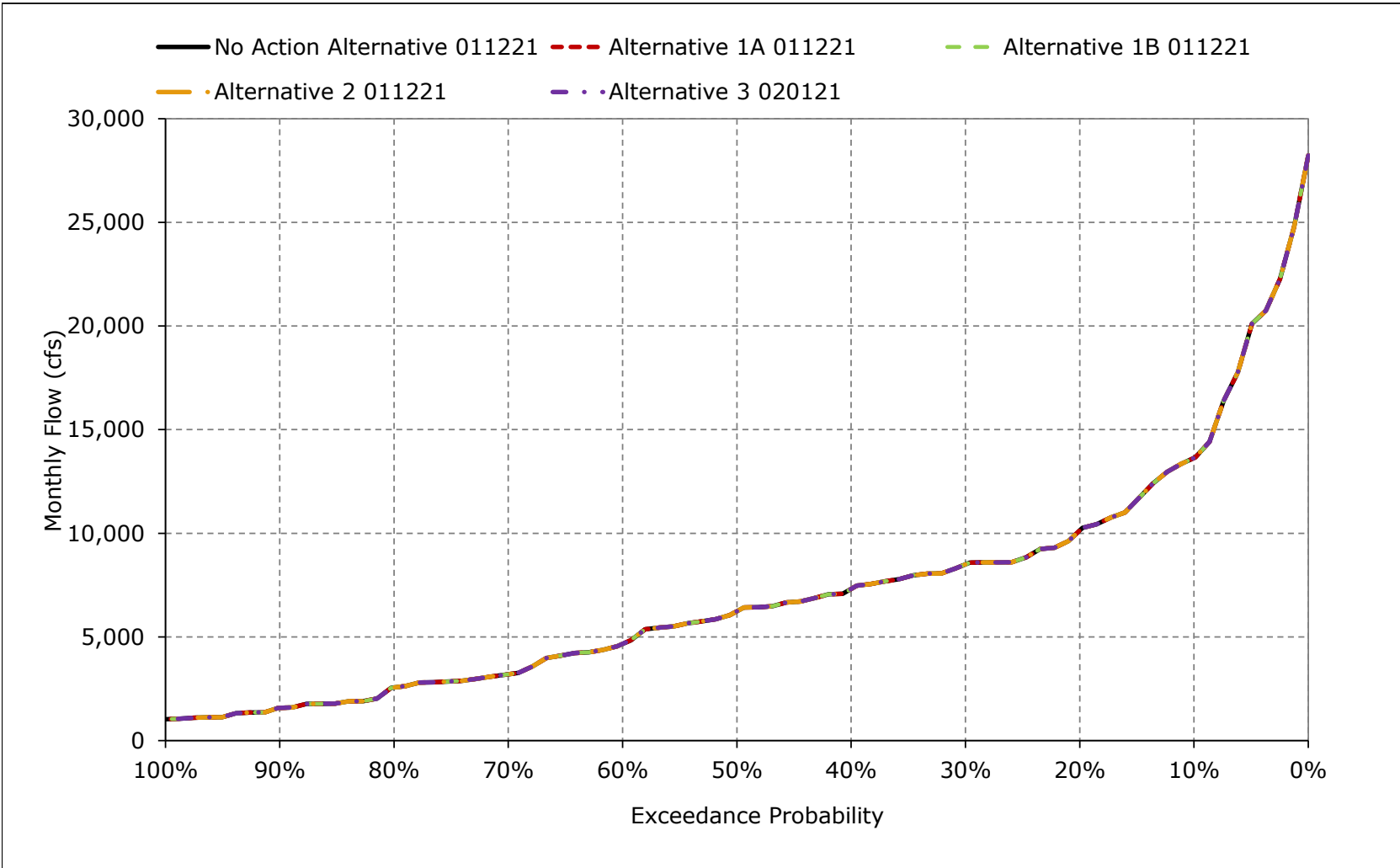
**Figure 5B3-7-11. San Joaquin River at Vernalis, February**



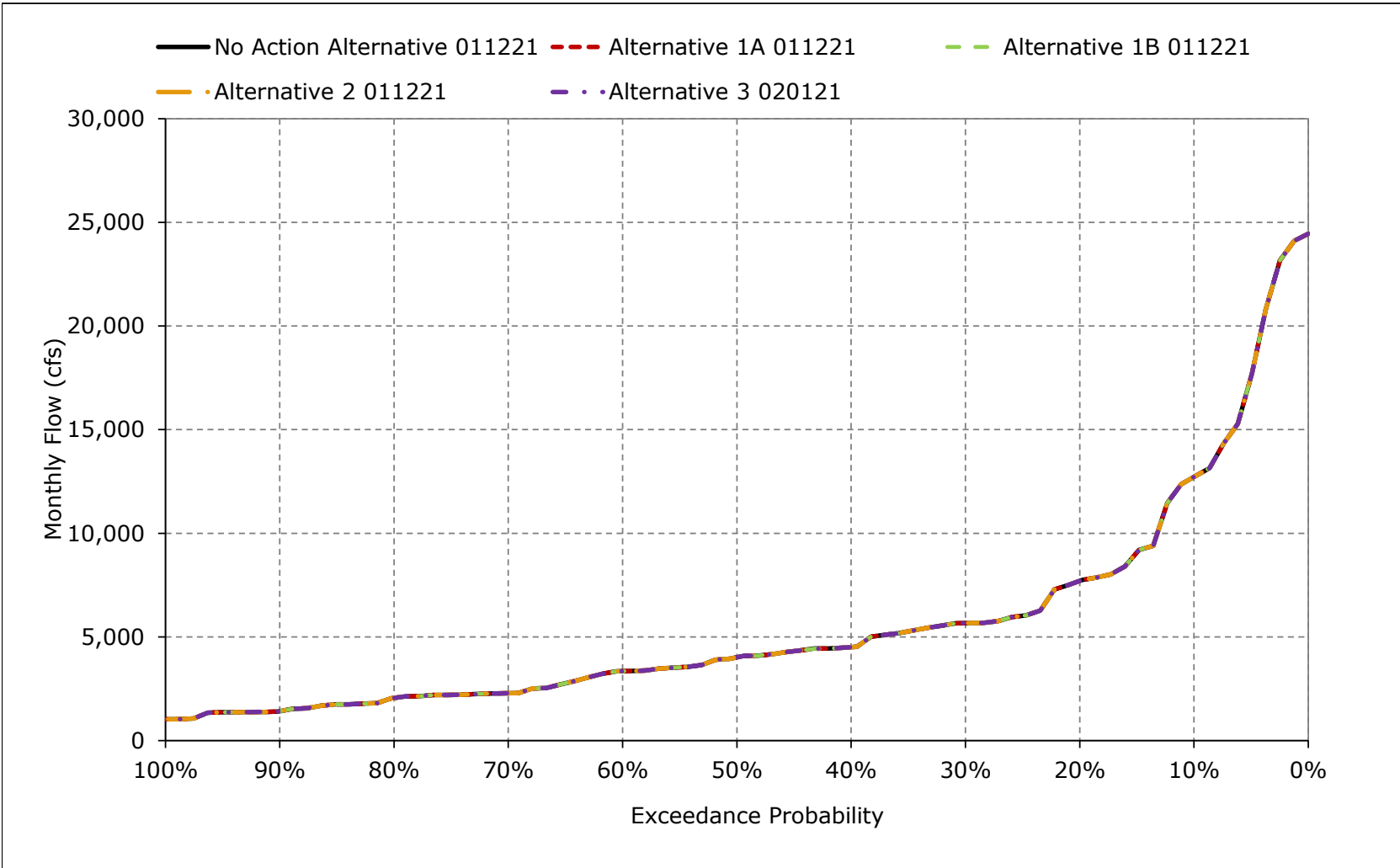
**Figure 5B3-7-12. San Joaquin River at Vernalis, March**



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

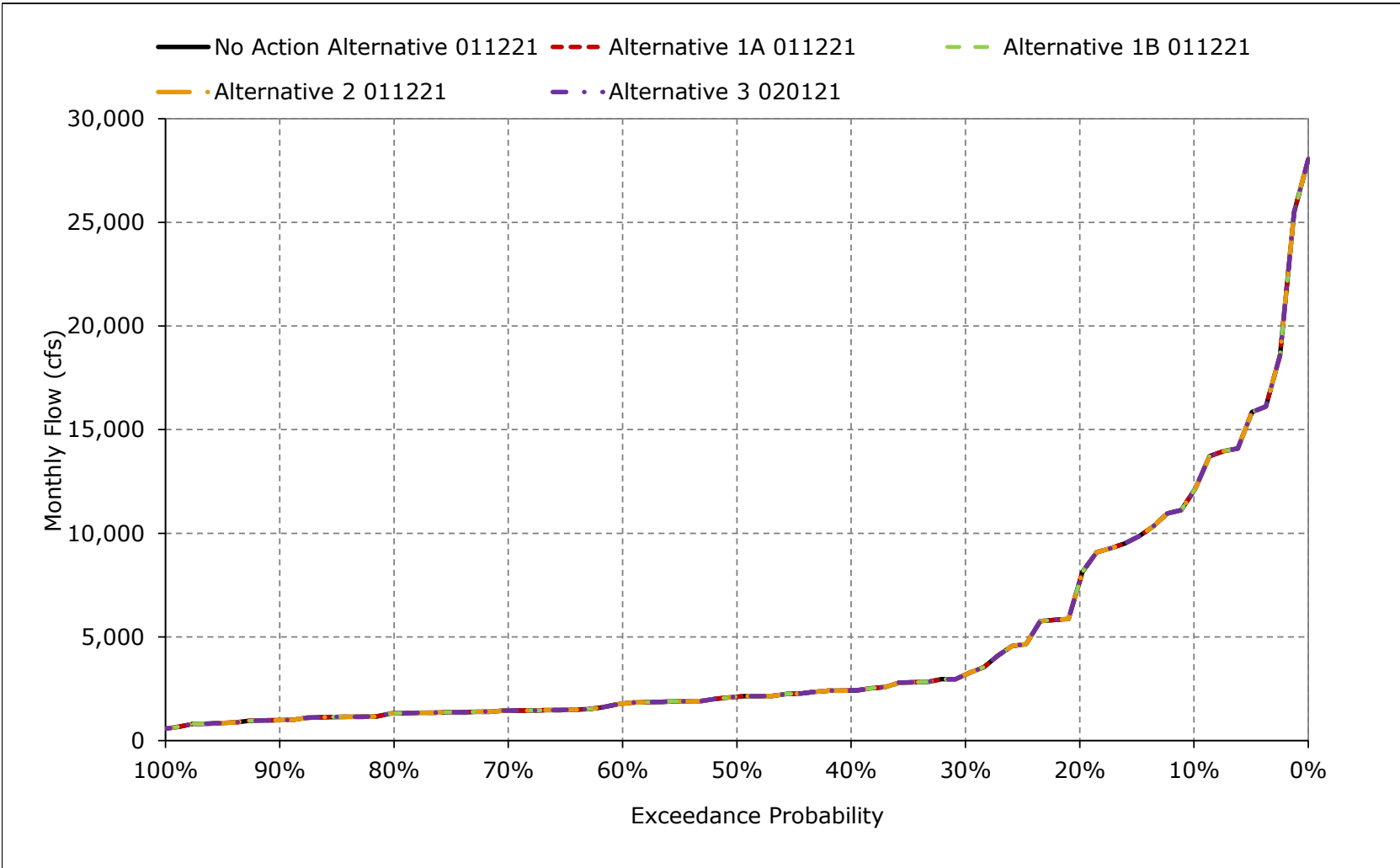


**Figure 5B3-7-14. San Joaquin River at Vernalis, May**

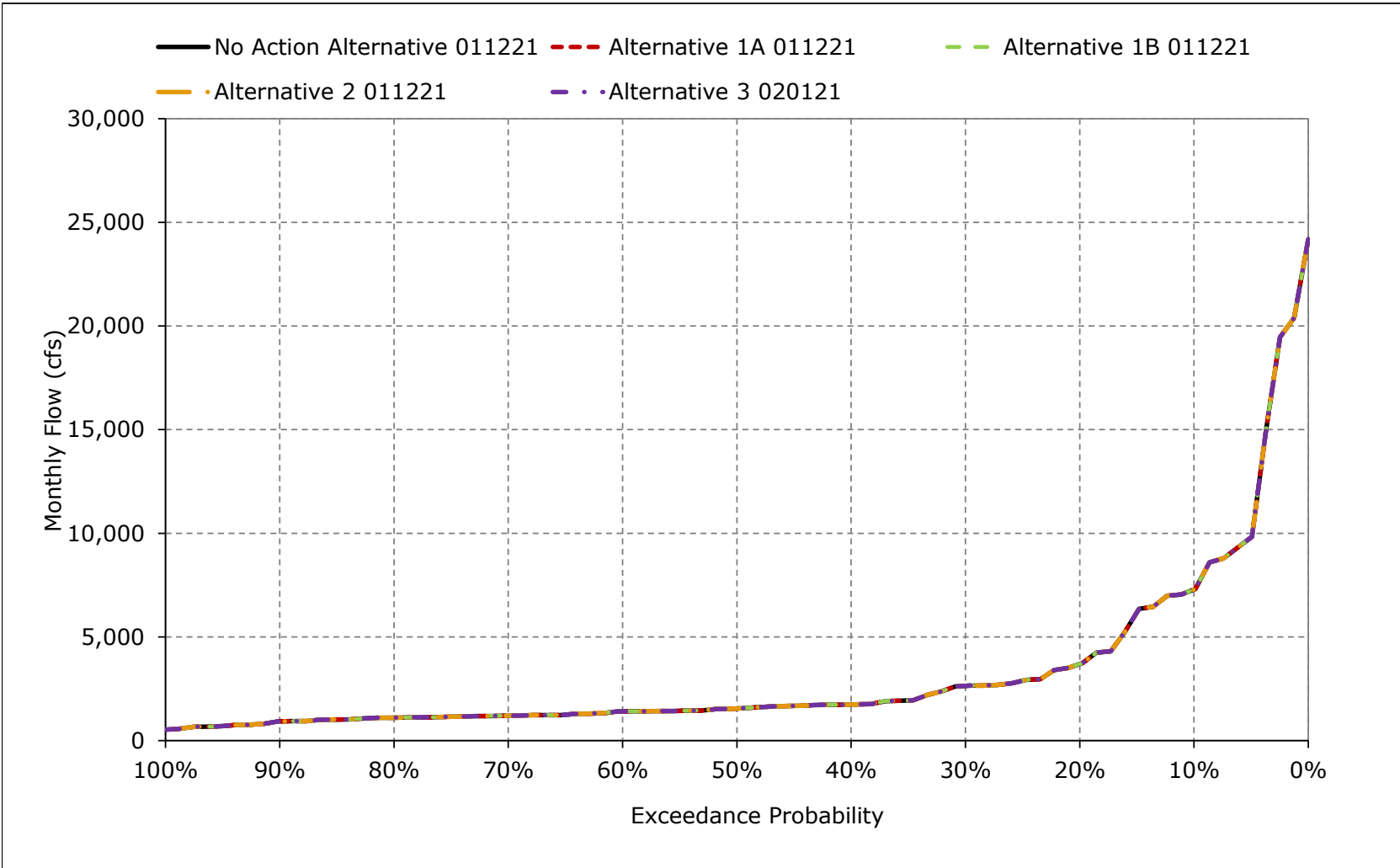




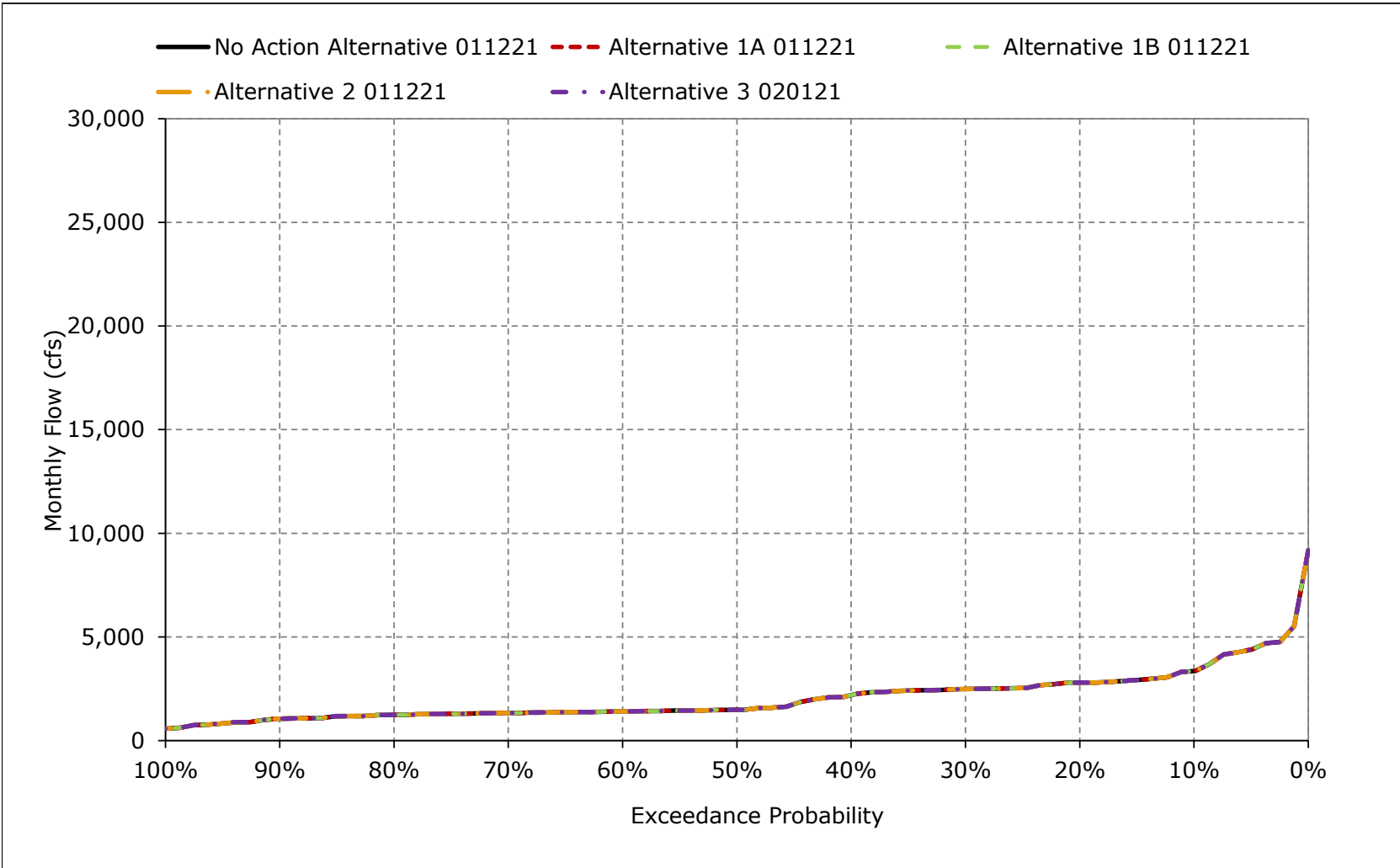
**Figure 5B3-7-15. San Joaquin River at Vernalis, June**



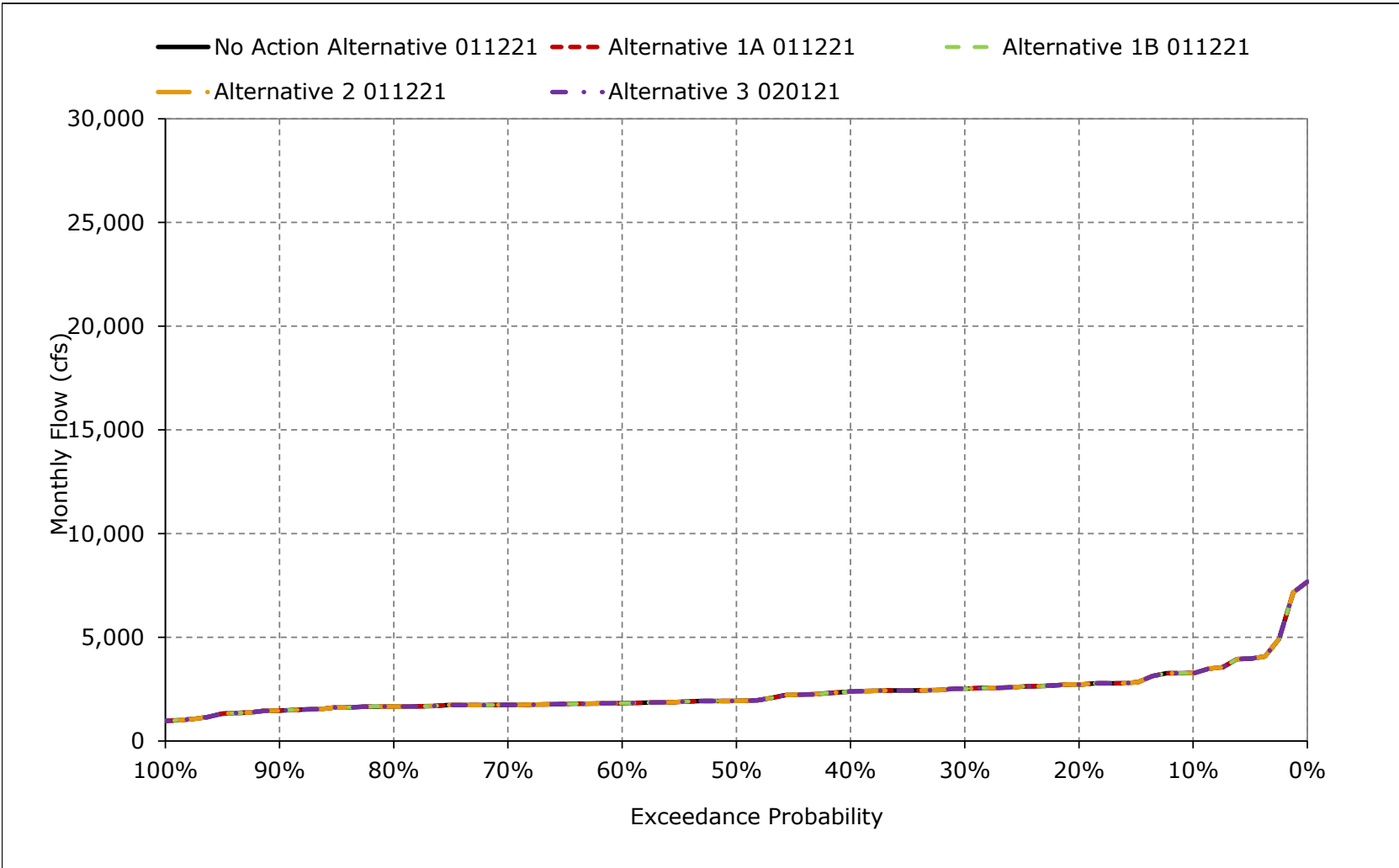
**Figure 5B3-7-16. San Joaquin River at Vernalis, July**



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



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



**Table 5B3-8-1a. San Joaquin River at Vernalis (60-20-20), No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	3,290	2,898	4,217	10,826	13,951	14,996	13,637	12,723	12,058	7,285	3,349	3,276
20%	2,913	2,582	2,710	5,216	9,726	9,482	10,137	7,705	7,681	3,692	2,801	2,725
30%	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,663	3,180	2,644	2,482	2,532
40%	2,622	2,006	2,029	2,657	4,429	4,840	7,320	4,508	2,418	1,743	2,198	2,383
50%	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,016	2,110	1,547	1,480	1,935
60%	2,276	1,739	1,761	2,071	2,705	3,001	4,666	3,350	1,782	1,407	1,404	1,824
70%	2,129	1,635	1,628	1,759	2,247	2,214	3,204	2,288	1,446	1,198	1,333	1,748
80%	1,961	1,513	1,501	1,538	1,852	1,719	2,567	2,057	1,315	1,101	1,237	1,658
90%	1,684	1,377	1,339	1,349	1,584	1,536	1,574	1,419	991	934	1,060	1,464
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	2,523	2,333	3,090	4,732	6,350	6,636	7,143	5,620	4,502	3,246	2,089	2,323
<b>Water Year Types<sup>b,c</sup></b>												
Wet (29%)	3,200	3,525	5,005	9,319	13,056	14,635	13,554	11,626	11,276	7,743	3,517	3,393
Above Normal (20%)	2,858	2,184	2,590	5,309	6,930	5,914	7,824	4,981	2,495	2,054	2,232	2,481
Below Normal (16%)	2,349	2,124	2,917	2,269	2,772	3,236	5,357	3,778	1,915	1,409	1,407	1,825
Dry (16%)	2,064	1,670	2,453	2,122	2,472	2,474	3,213	2,290	1,397	1,198	1,331	1,776
Critical (20%)	1,655	1,398	1,394	1,398	1,766	1,504	1,487	1,452	971	850	972	1,412

**Table 5B3-8-1b. San Joaquin River at Vernalis (60-20-20), Alternative 1A 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	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%	2,913	2,582	2,710	5,216	9,726	9,482	10,137	7,705	7,681	3,691	2,801	2,725
30%	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,662	3,181	2,644	2,482	2,532
40%	2,622	2,006	2,029	2,657	4,429	4,840	7,320	4,508	2,418	1,743	2,198	2,383
50%	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,016	2,110	1,547	1,480	1,935
60%	2,275	1,739	1,761	2,071	2,705	3,001	4,666	3,350	1,782	1,407	1,404	1,824
70%	2,129	1,635	1,628	1,759	2,247	2,214	3,204	2,288	1,446	1,198	1,333	1,748
80%	1,961	1,513	1,501	1,538	1,852	1,719	2,567	2,058	1,315	1,103	1,236	1,658
90%	1,684	1,377	1,339	1,349	1,584	1,536	1,574	1,418	992	934	1,060	1,464
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	2,523	2,333	3,090	4,732	6,350	6,636	7,143	5,620	4,502	3,246	2,089	2,323
<b>Water Year Types<sup>b,c</sup></b>												
Wet (29%)	3,200	3,525	5,005	9,319	13,056	14,636	13,554	11,626	11,276	7,743	3,516	3,393
Above Normal (20%)	2,858	2,184	2,590	5,309	6,930	5,914	7,824	4,981	2,495	2,054	2,232	2,481
Below Normal (16%)	2,349	2,124	2,917	2,269	2,772	3,236	5,357	3,778	1,915	1,408	1,407	1,825
Dry (16%)	2,064	1,670	2,453	2,122	2,472	2,474	3,213	2,290	1,397	1,199	1,332	1,776
Critical (20%)	1,655	1,398	1,394	1,398	1,766	1,504	1,487	1,452	971	850	972	1,412

**Table 5B3-8-1c. San Joaquin River at Vernalis (60-20-20), Alternative 1A 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	1	0	2	-1	0
90%	0	0	0	0	0	0	0	-1	1	0	0	0
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Water Year Types<sup>b,c</sup></b>												
Wet (29%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (20%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (20%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 82-year simulation period.

b As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

**Table 5B3-8-2a. San Joaquin River at Vernalis (60-20-20), No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	3,290	2,898	4,217	10,826	13,951	14,996	13,637	12,723	12,058	7,285	3,349	3,276
20%	2,913	2,582	2,710	5,216	9,726	9,482	10,137	7,705	7,681	3,692	2,801	2,725
30%	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,663	3,180	2,644	2,482	2,532
40%	2,622	2,006	2,029	2,657	4,429	4,840	7,320	4,508	2,418	1,743	2,198	2,383
50%	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,016	2,110	1,547	1,480	1,935
60%	2,276	1,739	1,761	2,071	2,705	3,001	4,666	3,350	1,782	1,407	1,404	1,824
70%	2,129	1,635	1,628	1,759	2,247	2,214	3,204	2,288	1,446	1,198	1,333	1,748
80%	1,961	1,513	1,501	1,538	1,852	1,719	2,567	2,057	1,315	1,101	1,237	1,658
90%	1,684	1,377	1,339	1,349	1,584	1,536	1,574	1,419	991	934	1,060	1,464
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	2,523	2,333	3,090	4,732	6,350	6,636	7,143	5,620	4,502	3,246	2,089	2,323
<b>Water Year Types<sup>b,c</sup></b>												
Wet (29%)	3,200	3,525	5,005	9,319	13,056	14,635	13,554	11,626	11,276	7,743	3,517	3,393
Above Normal (20%)	2,858	2,184	2,590	5,309	6,930	5,914	7,824	4,981	2,495	2,054	2,232	2,481
Below Normal (16%)	2,349	2,124	2,917	2,269	2,772	3,236	5,357	3,778	1,915	1,409	1,407	1,825
Dry (16%)	2,064	1,670	2,453	2,122	2,472	2,474	3,213	2,290	1,397	1,198	1,331	1,776
Critical (20%)	1,655	1,398	1,394	1,398	1,766	1,504	1,487	1,452	971	850	972	1,412

**Table 5B3-8-2b. San Joaquin River at Vernalis (60-20-20), Alternative 1B 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	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%	2,913	2,582	2,710	5,216	9,726	9,482	10,137	7,705	7,681	3,692	2,801	2,725
30%	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,662	3,181	2,644	2,482	2,532
40%	2,622	2,006	2,029	2,657	4,429	4,840	7,320	4,508	2,418	1,743	2,198	2,383
50%	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,016	2,110	1,547	1,480	1,935
60%	2,275	1,739	1,761	2,071	2,705	3,001	4,666	3,350	1,782	1,407	1,404	1,825
70%	2,129	1,635	1,628	1,759	2,247	2,214	3,203	2,288	1,446	1,198	1,336	1,748
80%	1,961	1,513	1,501	1,538	1,852	1,720	2,567	2,058	1,316	1,103	1,235	1,659
90%	1,684	1,377	1,339	1,349	1,584	1,536	1,574	1,418	993	934	1,060	1,464
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	2,523	2,333	3,090	4,732	6,350	6,636	7,143	5,620	4,502	3,247	2,089	2,324
<b>Water Year Types<sup>b,c</sup></b>												
Wet (29%)	3,200	3,525	5,005	9,319	13,056	14,636	13,554	11,626	11,275	7,743	3,516	3,393
Above Normal (20%)	2,858	2,184	2,590	5,309	6,930	5,914	7,824	4,981	2,495	2,054	2,232	2,481
Below Normal (16%)	2,349	2,124	2,917	2,269	2,772	3,236	5,357	3,778	1,915	1,408	1,407	1,825
Dry (16%)	2,065	1,670	2,453	2,122	2,472	2,474	3,213	2,290	1,398	1,199	1,332	1,776
Critical (20%)	1,655	1,398	1,394	1,398	1,766	1,505	1,487	1,452	972	851	973	1,412

**Table 5B3-8-2c. San Joaquin River at Vernalis (60-20-20), Alternative 1B 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	1
70%	1	0	0	0	0	0	0	0	0	0	4	0
80%	0	0	0	0	0	0	0	1	0	2	-2	0
90%	0	0	0	0	0	0	0	-1	1	0	0	0
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Water Year Types<sup>b,c</sup></b>												
Wet (29%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (20%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (16%)	0	0	0	0	0	0	0	0	1	1	1	0
Critical (20%)	0	0	0	0	0	0	0	0	1	1	1	0

a Based on the 82-year simulation period.

b As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

**Table 5B3-8-3a. San Joaquin River at Vernalis (60-20-20), No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	3,290	2,898	4,217	10,826	13,951	14,996	13,637	12,723	12,058	7,285	3,349	3,276
20%	2,913	2,582	2,710	5,216	9,726	9,482	10,137	7,705	7,681	3,692	2,801	2,725
30%	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,663	3,180	2,644	2,482	2,532
40%	2,622	2,006	2,029	2,657	4,429	4,840	7,320	4,508	2,418	1,743	2,198	2,383
50%	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,016	2,110	1,547	1,480	1,935
60%	2,276	1,739	1,761	2,071	2,705	3,001	4,666	3,350	1,782	1,407	1,404	1,824
70%	2,129	1,635	1,628	1,759	2,247	2,214	3,204	2,288	1,446	1,198	1,333	1,748
80%	1,961	1,513	1,501	1,538	1,852	1,719	2,567	2,057	1,315	1,101	1,237	1,658
90%	1,684	1,377	1,339	1,349	1,584	1,536	1,574	1,419	991	934	1,060	1,464
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	2,523	2,333	3,090	4,732	6,350	6,636	7,143	5,620	4,502	3,246	2,089	2,323
<b>Water Year Types<sup>b,c</sup></b>												
Wet (29%)	3,200	3,525	5,005	9,319	13,056	14,635	13,554	11,626	11,276	7,743	3,517	3,393
Above Normal (20%)	2,858	2,184	2,590	5,309	6,930	5,914	7,824	4,981	2,495	2,054	2,232	2,481
Below Normal (16%)	2,349	2,124	2,917	2,269	2,772	3,236	5,357	3,778	1,915	1,409	1,407	1,825
Dry (16%)	2,064	1,670	2,453	2,122	2,472	2,474	3,213	2,290	1,397	1,198	1,331	1,776
Critical (20%)	1,655	1,398	1,394	1,398	1,766	1,504	1,487	1,452	971	850	972	1,412

**Table 5B3-8-3b. San Joaquin River at Vernalis (60-20-20), Alternative 2 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	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%	2,913	2,582	2,710	5,216	9,726	9,482	10,137	7,705	7,681	3,691	2,801	2,725
30%	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,662	3,181	2,644	2,482	2,532
40%	2,622	2,006	2,029	2,657	4,429	4,840	7,320	4,508	2,419	1,743	2,198	2,383
50%	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,016	2,110	1,547	1,480	1,935
60%	2,275	1,739	1,761	2,071	2,705	3,001	4,666	3,350	1,782	1,407	1,404	1,824
70%	2,129	1,635	1,628	1,759	2,247	2,214	3,204	2,288	1,446	1,198	1,333	1,748
80%	1,961	1,513	1,501	1,538	1,852	1,719	2,567	2,058	1,315	1,103	1,236	1,658
90%	1,684	1,377	1,339	1,349	1,584	1,536	1,574	1,418	992	934	1,060	1,464
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	2,523	2,333	3,090	4,732	6,350	6,636	7,143	5,620	4,502	3,246	2,089	2,323
<b>Water Year Types<sup>b,c</sup></b>												
Wet (29%)	3,200	3,525	5,005	9,319	13,056	14,636	13,554	11,626	11,276	7,743	3,516	3,393
Above Normal (20%)	2,858	2,184	2,590	5,309	6,930	5,914	7,824	4,981	2,495	2,054	2,232	2,481
Below Normal (16%)	2,349	2,124	2,917	2,269	2,772	3,236	5,357	3,778	1,915	1,408	1,407	1,825
Dry (16%)	2,064	1,670	2,453	2,122	2,472	2,474	3,213	2,290	1,397	1,199	1,332	1,776
Critical (20%)	1,655	1,398	1,394	1,398	1,766	1,504	1,487	1,452	971	850	972	1,412

**Table 5B3-8-3c. San Joaquin River at Vernalis (60-20-20), Alternative 2 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	1	0	2	-1	0
90%	0	0	0	0	0	0	0	-1	1	0	0	0
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Water Year Types<sup>b,c</sup></b>												
Wet (29%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (20%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (20%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 82-year simulation period.

b As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

**Table 5B3-8-4a. San Joaquin River at Vernalis (60-20-20), No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	3,290	2,898	4,217	10,826	13,951	14,996	13,637	12,723	12,058	7,285	3,349	3,276
20%	2,913	2,582	2,710	5,216	9,726	9,482	10,137	7,705	7,681	3,692	2,801	2,725
30%	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,663	3,180	2,644	2,482	2,532
40%	2,622	2,006	2,029	2,657	4,429	4,840	7,320	4,508	2,418	1,743	2,198	2,383
50%	2,457	1,855	1,871	2,278	3,500	3,622	6,235	4,016	2,110	1,547	1,480	1,935
60%	2,276	1,739	1,761	2,071	2,705	3,001	4,666	3,350	1,782	1,407	1,404	1,824
70%	2,129	1,635	1,628	1,759	2,247	2,214	3,204	2,288	1,446	1,198	1,333	1,748
80%	1,961	1,513	1,501	1,538	1,852	1,719	2,567	2,057	1,315	1,101	1,237	1,658
90%	1,684	1,377	1,339	1,349	1,584	1,536	1,574	1,419	991	934	1,060	1,464
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	2,523	2,333	3,090	4,732	6,350	6,636	7,143	5,620	4,502	3,246	2,089	2,323
<b>Water Year Types<sup>b,c</sup></b>												
Wet (29%)	3,200	3,525	5,005	9,319	13,056	14,635	13,554	11,626	11,276	7,743	3,517	3,393
Above Normal (20%)	2,858	2,184	2,590	5,309	6,930	5,914	7,824	4,981	2,495	2,054	2,232	2,481
Below Normal (16%)	2,349	2,124	2,917	2,269	2,772	3,236	5,357	3,778	1,915	1,409	1,407	1,825
Dry (16%)	2,064	1,670	2,453	2,122	2,472	2,474	3,213	2,290	1,397	1,198	1,331	1,776
Critical (20%)	1,655	1,398	1,394	1,398	1,766	1,504	1,487	1,452	971	850	972	1,412

**Table 5B3-8-4b. San Joaquin River at Vernalis (60-20-20), Alternative 3 020121, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	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%	2,913	2,582	2,710	5,216	9,726	9,482	10,138	7,705	7,681	3,692	2,801	2,725
30%	2,760	2,230	2,375	3,444	6,922	7,983	8,505	5,663	3,181	2,645	2,482	2,532
40%	2,622	2,006	2,029	2,657	4,429	4,840	7,320	4,508	2,419	1,743	2,198	2,383
50%	2,457	1,855	1,872	2,278	3,499	3,622	6,235	4,016	2,110	1,547	1,480	1,935
60%	2,275	1,739	1,761	2,071	2,705	3,001	4,666	3,350	1,782	1,409	1,404	1,825
70%	2,129	1,635	1,628	1,759	2,247	2,214	3,203	2,288	1,446	1,198	1,338	1,748
80%	1,961	1,513	1,501	1,538	1,852	1,720	2,567	2,056	1,316	1,100	1,236	1,659
90%	1,684	1,377	1,339	1,349	1,584	1,536	1,575	1,419	995	934	1,060	1,464
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	2,523	2,333	3,090	4,732	6,350	6,636	7,143	5,620	4,502	3,247	2,089	2,324
<b>Water Year Types<sup>b,c</sup></b>												
Wet (29%)	3,200	3,525	5,005	9,319	13,056	14,635	13,554	11,626	11,276	7,743	3,516	3,393
Above Normal (20%)	2,858	2,184	2,590	5,309	6,930	5,914	7,824	4,981	2,495	2,054	2,232	2,481
Below Normal (16%)	2,349	2,124	2,917	2,269	2,772	3,236	5,357	3,778	1,915	1,408	1,407	1,825
Dry (16%)	2,065	1,670	2,453	2,122	2,472	2,474	3,213	2,290	1,398	1,199	1,332	1,776
Critical (20%)	1,655	1,398	1,395	1,398	1,766	1,505	1,487	1,453	972	851	973	1,412

**Table 5B3-8-4c. San Joaquin River at Vernalis (60-20-20), Alternative 3 020121 minus No Action Alternative 011221, Monthly Flow (cfs)**

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	1	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	2	0	2
70%	0	0	0	0	0	0	0	1	0	0	6	0
80%	0	0	0	0	0	0	0	0	1	-1	-1	0
90%	0	0	0	0	0	0	0	0	4	0	0	0
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Water Year Types<sup>b,c</sup></b>												
Wet (29%)	0	0	0	0	0	0	0	-1	0	0	0	0
Above Normal (20%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (16%)	0	0	0	0	0	0	0	1	1	1	1	0
Critical (20%)	0	0	0	0	0	0	0	1	1	1	1	0

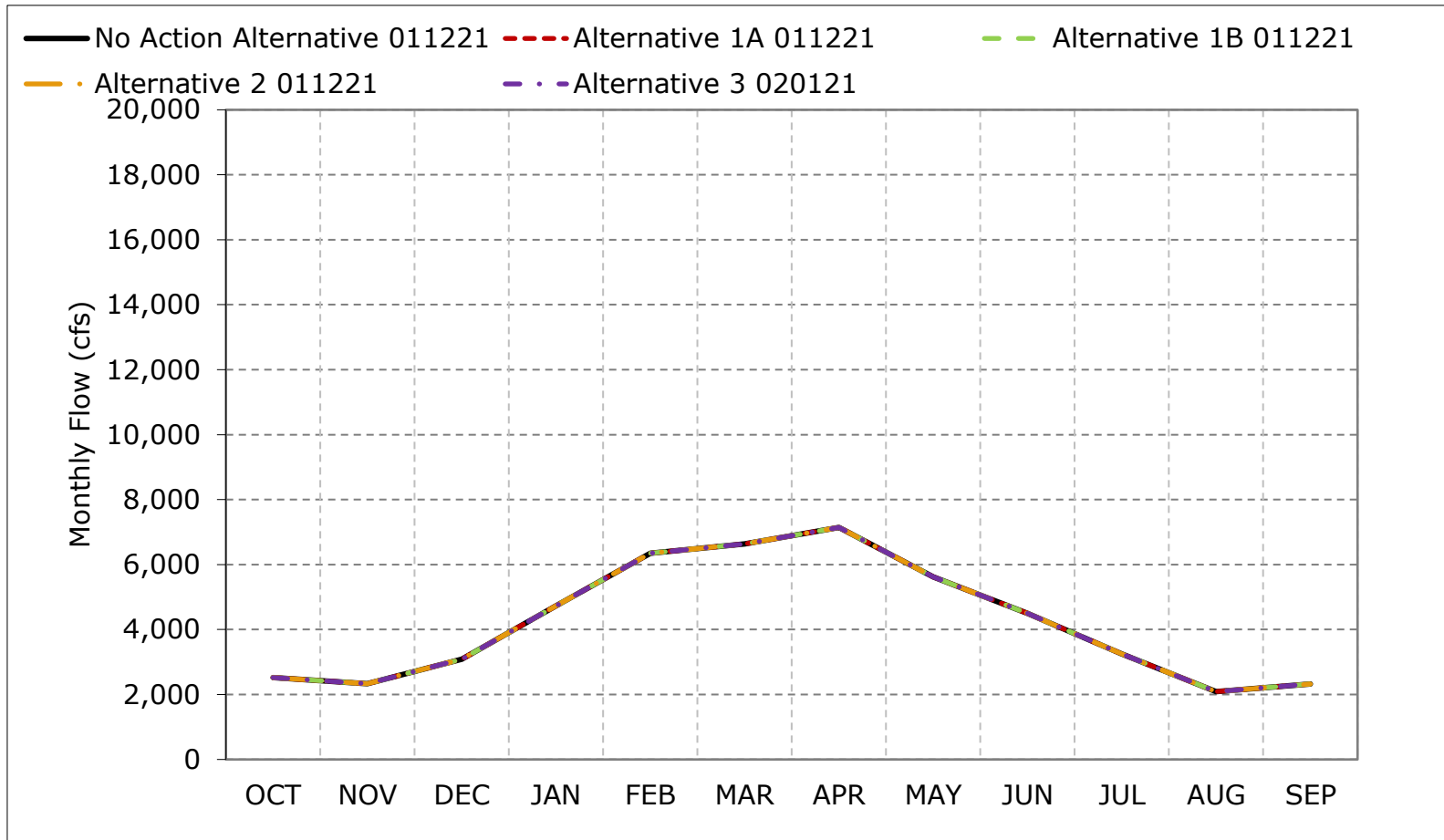
a Based on the 82-year simulation period.

b As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.



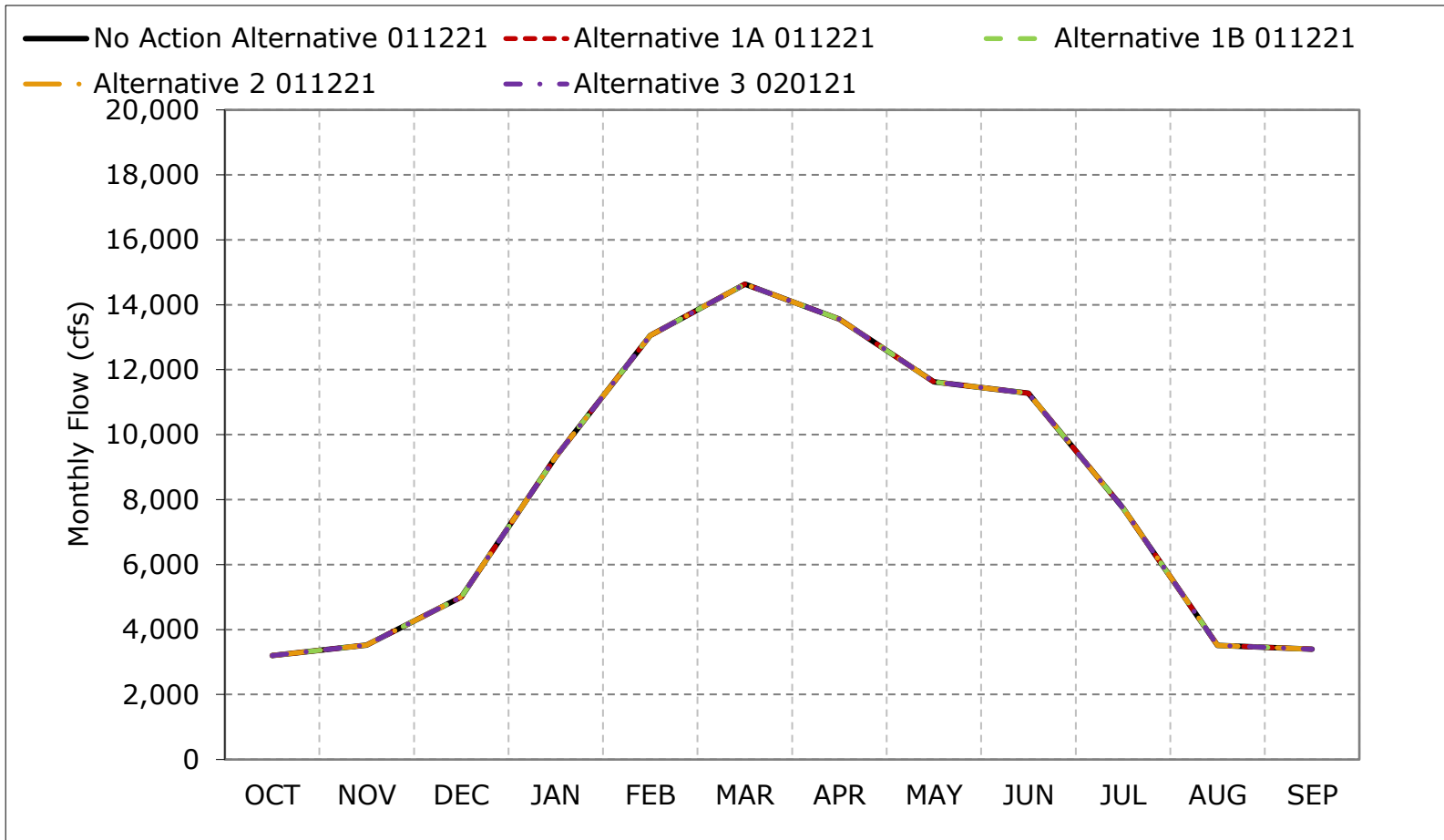
**Figure 5B3-8-1. San Joaquin River at Vernalis (60-20-20), Long-Term Average Flow**



\*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.

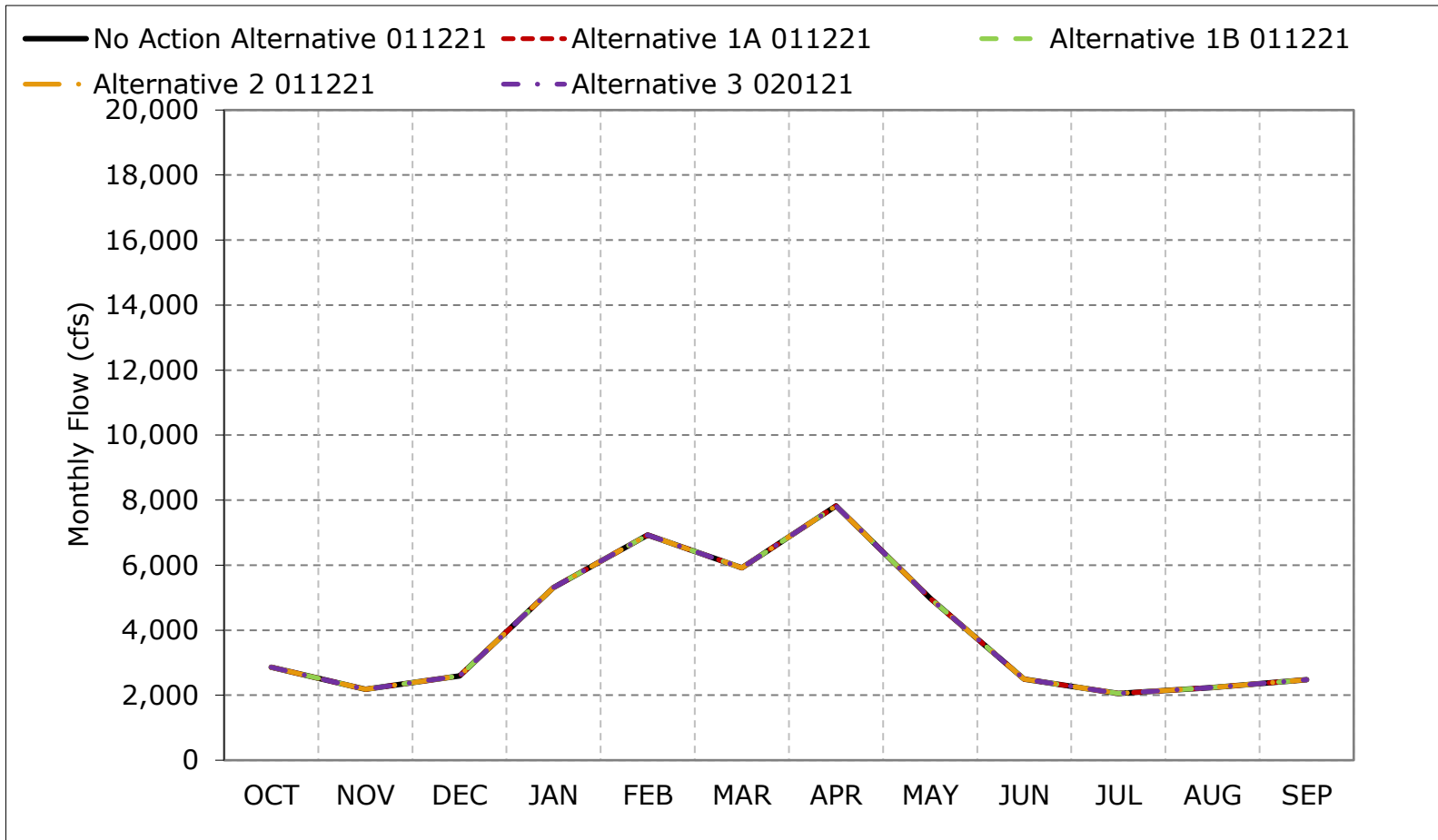
**Figure 5B3-8-2. San Joaquin River at Vernalis (60-20-20), Wet Year Average Flow**



\*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.

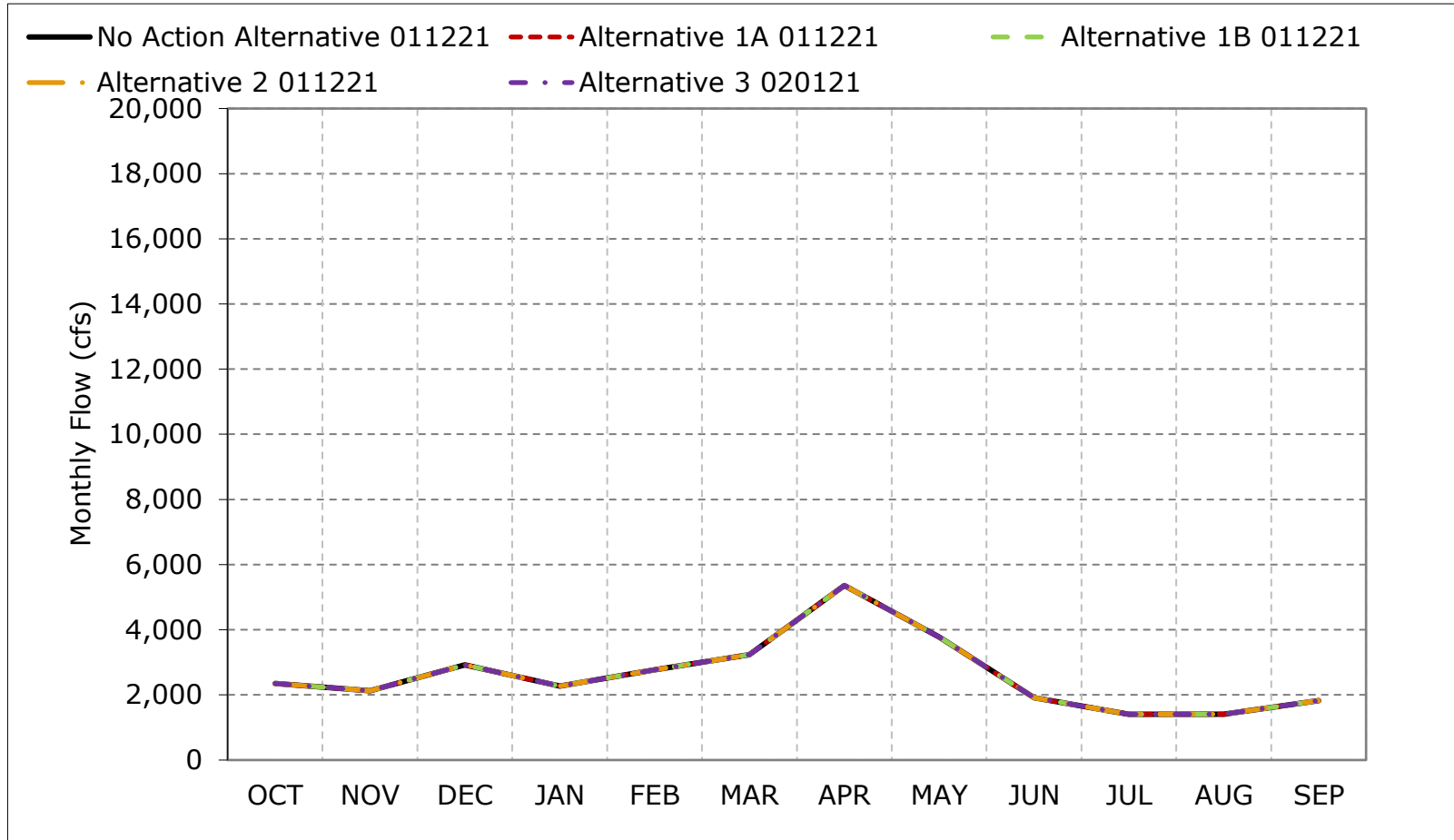
**Figure 5B3-8-3. San Joaquin River at Vernalis (60-20-20), Above Normal Year Average Flow**



\*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.

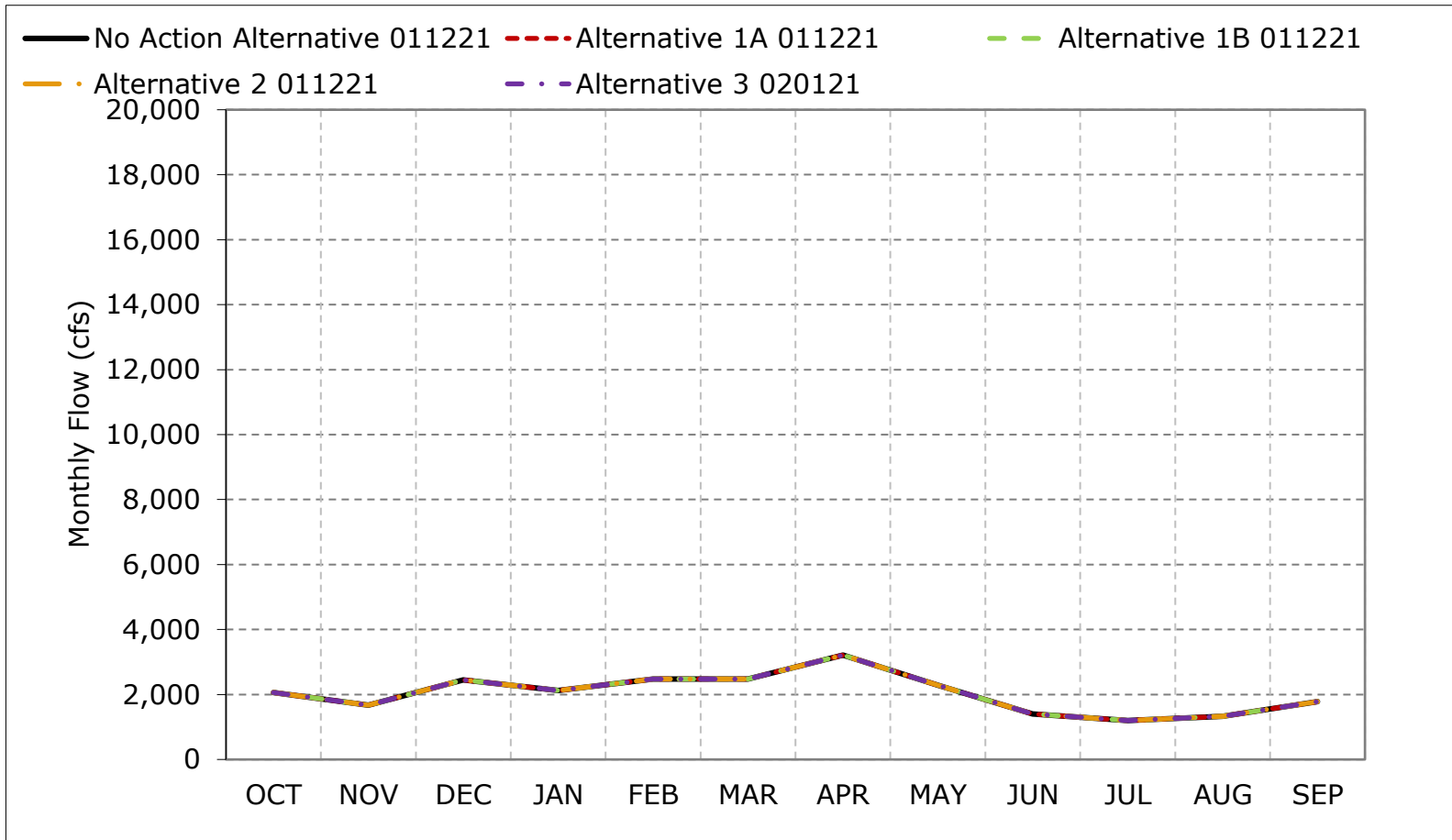
**Figure 5B3-8-4. San Joaquin River at Vernalis (60-20-20), Below Normal Year Average Flow**



\*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.

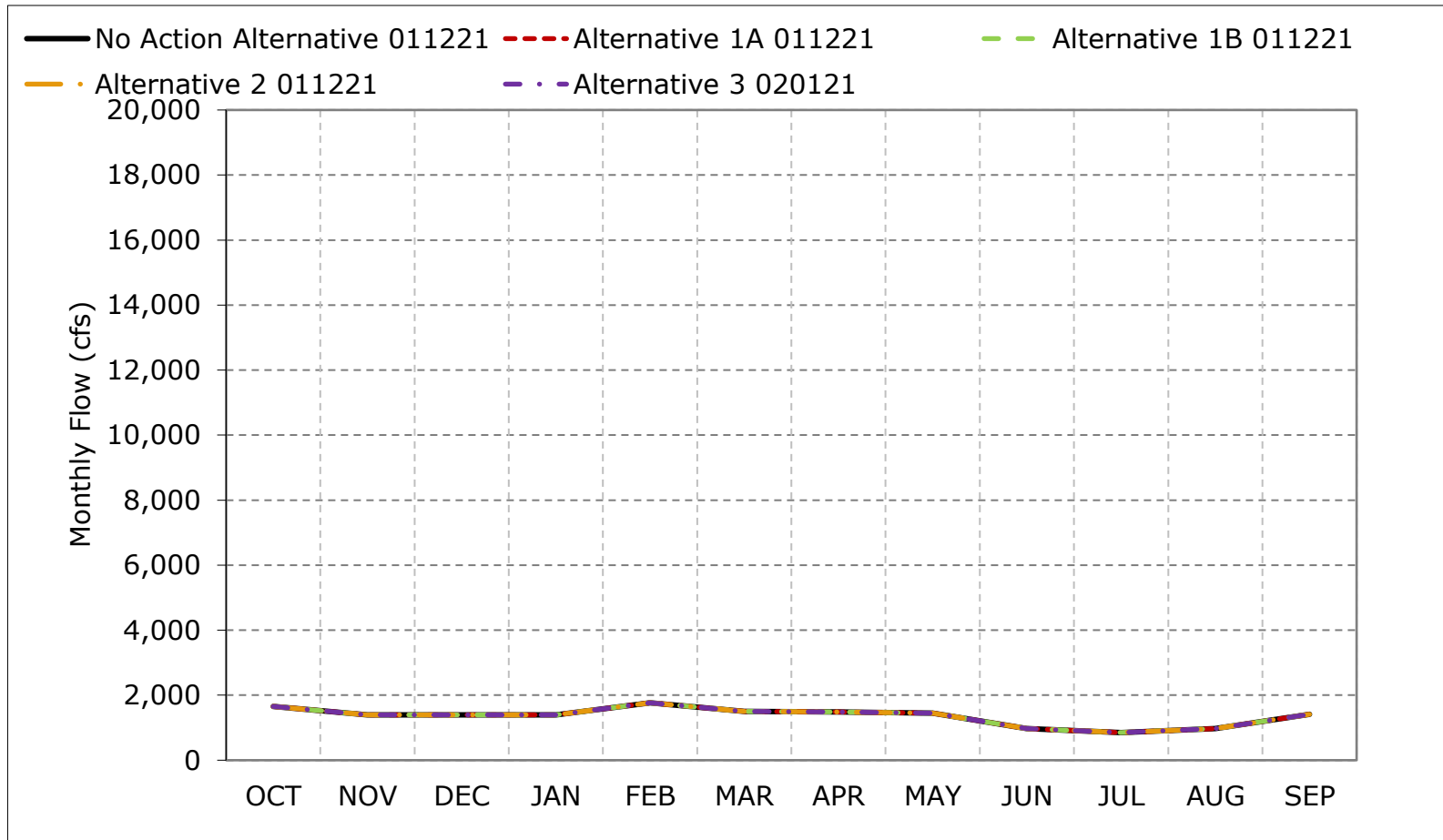
**Figure 5B3-8-5. San Joaquin River at Vernalis (60-20-20), Dry Year Average Flow**



\*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.

**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.