

CALSIM II Model Results Utilized in the Fish Analysis

Appendix 11C contains CALSIM II model results that are used for various analyses throughout Chapter 11. The appendix is organized by alternative. Within each alternative, CALSIM outputs are presented for various flow-related and reservoir parameters at locations throughout the Central Valley. For each parameter, results are first presented as mean monthly values by water year type for NEPA and CEQA baselines and alternative. Second, differences and percent differences between the alternative and NEPA and CEQA baselines are presented. Differences in values between alternatives and baselines were used to assist in determining flow-related effects of an alternative at specific locations.

The acronyms and abbreviations found in this appendix are defined below.

WYT ¹	=	Water Year Type.
W	=	Wet.
AN	=	Above Normal.
BN	=	Below Normal.
D	=	Dry.
C	=	Critical.
All	=	All water year types combined.
NAA	=	No Action Alternative.
A1A_LL	=	Alternative 1A Late Long-Term.
A2A_LL	=	Alternative 2A Late Long-Term.
A3_LL	=	Alternative 3 Late Long-Term.
A4_LL	=	Alternative 4 Late Long-Term (CALSIM Modeling results for Alternative 4 are further described below in Section 11C.4.3).
H1	=	Scenario H1 – Does not include enhanced spring outflow or Fall X2 requirements.
H2	=	Scenario H2 – Includes enhanced spring outflow, but not Fall X2 requirements. This scenario lies within the range of the other scenarios.
H3	=	Scenario H3 – Does not include enhanced spring outflow, but includes Fall X2 requirements (similar to Alternative 2A). This scenario lies within the range of the other scenarios.
H4	=	Scenario H4 – Includes both enhanced spring outflow requirements, and Fall X2 requirements.
A5_LL	=	Alternative 5 Late Long-Term.
A6A_LL	=	Alternative 6A Late Long-Term.
A7_LL	=	Alternative 7 Late Long-Term.
A8_LL	=	Alternative 8 Late Long-Term.
A9_LL	=	Alternative 9 Late Long-Term.
ELT	=	Early Long-Term.

¹ Unless otherwise noted, water year type was determined using the Sacramento River Valley Index.

1 **11C.1 Alternative 1A**

2 **11C.1.1 Upstream**

3 **11C.1.1.1 Sacramento River at Keswick**

4 **Table 1. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Keswick,**
5 **Year-Round**

Alternative 1A: Upstream—Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	16,526	18,233	18,615
	AN	8,318	8,205	7,987
	BN	4,502	4,184	5,666
	D	3,996	4,096	4,371
	C	3,490	4,238	3,452
	All	8,614	9,215	9,503
FEB	W	18,577	20,853	20,844
	AN	14,409	15,297	16,741
	BN	5,981	5,544	6,245
	D	3,684	3,410	3,609
	C	3,599	3,372	3,586
	All	10,355	11,039	11,442
MAR	W	16,200	17,065	17,202
	AN	9,131	8,818	8,558
	BN	5,200	4,318	4,873
	D	3,903	3,814	3,732
	C	3,487	3,583	3,867
	All	8,728	8,800	8,924
APR	W	9,418	9,131	9,088
	AN	6,182	5,536	6,137
	BN	5,426	5,009	5,722
	D	5,803	5,533	6,308
	C	6,472	6,550	6,733
	All	7,038	6,733	7,127
MAY	W	9,508	7,149	7,871
	AN	7,709	7,783	8,868
	BN	7,193	6,272	7,346
	D	7,349	7,681	8,957
	C	6,715	7,316	7,586
	All	7,967	7,233	8,124
JUN	W	10,375	10,274	11,776
	AN	11,147	12,032	13,789
	BN	10,758	10,947	11,599
	D	11,224	11,898	12,498
	C	10,392	11,350	11,750
	All	10,742	11,160	12,195

Alternative 1A: Upstream—Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JUL	W	12,779	14,098	14,172
	AN	14,056	15,098	14,686
	BN	12,965	13,177	12,134
	D	13,302	13,727	12,593
	C	12,849	11,935	11,451
	All	13,123	13,689	13,155
AUG	W	11,029	10,491	10,302
	AN	10,449	11,641	10,580
	BN	10,139	10,261	9,462
	D	10,627	10,986	8,874
	C	9,473	7,348	7,004
	All	10,476	10,269	9,403
SEP	W	9,385	12,833	6,998
	AN	5,862	9,898	6,253
	BN	5,492	5,601	5,284
	D	5,985	4,469	4,722
	C	5,563	4,368	4,927
	All	6,899	8,094	5,794
OCT	W	6,886	7,034	8,025
	AN	7,145	7,152	8,462
	BN	6,396	7,072	8,950
	D	6,128	6,494	8,106
	C	5,902	5,752	7,875
	All	6,530	6,752	8,242
NOV	W	6,672	7,539	6,401
	AN	6,224	7,134	4,457
	BN	5,088	5,936	4,241
	D	5,669	5,406	4,319
	C	4,822	4,710	4,196
	All	5,845	6,324	4,968
DEC	W	12,766	11,022	11,953
	AN	5,531	5,377	5,376
	BN	5,413	5,195	5,412
	D	4,215	3,936	4,206
	C	3,828	3,582	3,645
	All	7,267	6,557	6,958

1 **Table 2. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Keswick, Year-Round**

Alternative 1A: Upstream—Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
JAN	W	2,089 (12.6%)	382 (2.1%)
	AN	-330 (-4%)	-217 (-2.6%)
	BN	1,164 (25.9%)	1,483 (35.4%)
	D	376 (9.4%)	275 (6.7%)
	C	-38 (-1.1%)	-786 (-18.5%)
	All	890 (10.3%)	288 (3.1%)
FEB	W	2,267 (12.2%)	-9 (0%)
	AN	2,332 (16.2%)	1,444 (9.4%)
	BN	263 (4.4%)	700 (12.6%)
	D	-74 (-2%)	199 (5.8%)
	C	-12 (-0.3%)	214 (6.4%)
	All	1,087 (10.5%)	403 (3.7%)
MAR	W	1,002 (6.2%)	137 (0.8%)
	AN	-573 (-6.3%)	-260 (-2.9%)
	BN	-327 (-6.3%)	555 (12.9%)
	D	-171 (-4.4%)	-82 (-2.1%)
	C	380 (10.9%)	283 (7.9%)
	All	196 (2.2%)	124 (1.4%)
APR	W	-330 (-3.5%)	-43 (-0.5%)
	AN	-45 (-0.7%)	601 (10.9%)
	BN	296 (5.5%)	714 (14.2%)
	D	505 (8.7%)	775 (14%)
	C	261 (4%)	183 (2.8%)
	All	88 (1.3%)	393 (5.8%)
MAY	W	-1,637 (-17.2%)	722 (10.1%)
	AN	1,159 (15%)	1,085 (13.9%)
	BN	153 (2.1%)	1,074 (17.1%)
	D	1,608 (21.9%)	1,275 (16.6%)
	C	871 (13%)	270 (3.7%)
	All	157 (2%)	890 (12.3%)
JUN	W	1,401 (13.5%)	1,502 (14.6%)
	AN	2,642 (23.7%)	1,758 (14.6%)
	BN	840 (7.8%)	651 (6%)
	D	1,274 (11.4%)	600 (5%)
	C	1,358 (13.1%)	400 (3.5%)
	All	1,453 (13.5%)	1,035 (9.3%)
JUL	W	1,393 (10.9%)	75 (0.5%)
	AN	629 (4.5%)	-412 (-2.7%)
	BN	-831 (-6.4%)	-1,043 (-7.9%)
	D	-709 (-5.3%)	-1,133 (-8.3%)
	C	-1,399 (-10.9%)	-484 (-4.1%)
	All	32 (0.2%)	-534 (-3.9%)

Alternative 1A: Upstream—Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
AUG	W	-727 (-6.6%)	-189 (-1.8%)
	AN	131 (1.3%)	-1,061 (-9.1%)
	BN	-677 (-6.7%)	-798 (-7.8%)
	D	-1,754 (-16.5%)	-2,112 (-19.2%)
	C	-2,469 (-26.1%)	-344 (-4.7%)
	All	-1,073 (-10.2%)	-865 (-8.4%)
SEP	W	-2,387 (-25.4%)	-5,835 (-45.5%)
	AN	390 (6.7%)	-3,645 (-36.8%)
	BN	-209 (-3.8%)	-317 (-5.7%)
	D	-1,263 (-21.1%)	254 (5.7%)
	C	-635 (-11.4%)	559 (12.8%)
	All	-1,106 (-16%)	-2,300 (-28.4%)
OCT	W	1,139 (16.5%)	990 (14.1%)
	AN	1,317 (18.4%)	1,310 (18.3%)
	BN	2,553 (39.9%)	1,877 (26.5%)
	D	1,977 (32.3%)	1,611 (24.8%)
	C	1,973 (33.4%)	2,124 (36.9%)
	All	1,713 (26.2%)	1,491 (22.1%)
NOV	W	-271 (-4.1%)	-1,138 (-15.1%)
	AN	-1,767 (-28.4%)	-2,677 (-37.5%)
	BN	-846 (-16.6%)	-1,695 (-28.5%)
	D	-1,350 (-23.8%)	-1,087 (-20.1%)
	C	-627 (-13%)	-514 (-10.9%)
	All	-877 (-15%)	-1,356 (-21.4%)
DEC	W	-812 (-6.4%)	931 (8.4%)
	AN	-155 (-2.8%)	-1 (0%)
	BN	-1 (0%)	217 (4.2%)
	D	-8 (-0.2%)	270 (6.9%)
	C	-183 (-4.8%)	63 (1.8%)
	All	-309 (-4.3%)	401 (6.1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.1.1.2 Sacramento River Upstream of Red Bluff**

2 **Table 3. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River Upstream of Red**
 3 **Bluff, Year-Round**

Alternative 1A: Upstream—Sacramento River Upstream of Red Bluff				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	28,036	30,390	30,761
	AN	16,725	16,885	16,662
	BN	9,381	9,146	10,623
	D	7,098	7,262	7,532
	C	6,143	6,942	6,160
	All	15,396	16,278	16,560
FEB	W	30,255	33,472	33,458
	AN	23,492	24,828	26,269
	BN	12,005	11,614	12,301
	D	8,947	8,790	8,985
	C	6,599	6,378	6,595
	All	18,010	19,092	19,490
MAR	W	25,004	26,210	26,347
	AN	16,599	16,428	16,160
	BN	9,333	8,474	9,018
	D	8,385	8,300	8,216
	C	5,999	6,101	6,377
	All	14,669	14,876	14,995
APR	W	15,172	14,842	14,796
	AN	10,477	9,761	10,362
	BN	8,711	8,282	8,990
	D	7,948	7,661	8,433
	C	7,742	7,829	8,003
	All	10,709	10,376	10,765
MAY	W	12,541	10,073	10,790
	AN	10,012	10,047	11,122
	BN	8,781	7,875	8,939
	D	8,677	9,012	10,277
	C	7,746	8,348	8,615
	All	9,979	9,208	10,092
JUN	W	11,905	11,720	13,210
	AN	12,001	12,789	14,534
	BN	11,464	11,651	12,287
	D	11,777	12,441	13,028
	C	10,885	11,881	12,227
	All	11,666	12,046	13,062
JUL	W	13,255	14,525	14,586
	AN	14,129	15,142	14,716
	BN	13,011	13,258	12,205
	D	13,368	13,826	12,687
	C	13,005	12,149	11,749
	All	13,329	13,898	13,367

Alternative 1A: Upstream—Sacramento River Upstream of Red Bluff				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL
AUG	W	11,284	10,735	10,543
	AN	10,580	11,775	10,714
	BN	10,202	10,364	9,565
	D	10,747	11,143	9,034
	C	9,590	7,665	7,330
	All	10,630	10,464	9,600
SEP	W	9,856	13,312	7,476
	AN	6,279	10,320	6,680
	BN	5,821	5,963	5,649
	D	6,391	4,911	5,178
	C	5,887	4,838	5,393
	All	7,302	8,535	6,238
OCT	W	8,020	8,188	9,200
	AN	8,112	8,162	9,484
	BN	7,094	7,778	9,678
	D	6,903	7,287	8,902
	C	6,670	6,537	8,691
	All	7,432	7,675	9,183
NOV	W	9,876	10,821	9,671
	AN	8,144	9,098	6,407
	BN	6,791	7,682	5,971
	D	7,548	7,347	6,249
	C	5,811	5,703	5,186
	All	7,990	8,521	7,154
DEC	W	21,015	19,613	20,551
	AN	10,019	10,053	10,073
	BN	8,408	8,228	8,460
	D	7,292	7,091	7,372
	C	5,628	5,433	5,498
	All	11,989	11,446	11,857

1 **Table 4. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **Upstream of Red Bluff, Year-Round**

Alternative 1A: Upstream—Sacramento River Upstream of Red Bluff			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
JAN	W	2,725 (9.7%)	371 (1.2%)
	AN	-63 (-0.4%)	-224 (-1.3%)
	BN	1,241 (13.2%)	1,476 (16.1%)
	D	435 (6.1%)	271 (3.7%)
	C	17 (0.3%)	-782 (-11.3%)
	All	1,164 (7.6%)	282 (1.7%)
FEB	W	3,203 (10.6%)	-13 (0%)
	AN	2,777 (11.8%)	1,441 (5.8%)
	BN	297 (2.5%)	687 (5.9%)
	D	37 (0.4%)	195 (2.2%)
	C	-4 (-0.1%)	216 (3.4%)
	All	1,480 (8.2%)	398 (2.1%)
MAR	W	1,343 (5.4%)	136 (0.5%)
	AN	-439 (-2.6%)	-268 (-1.6%)
	BN	-314 (-3.4%)	545 (6.4%)
	D	-168 (-2%)	-83 (-1%)
	C	378 (6.3%)	275 (4.5%)
	All	326 (2.2%)	119 (0.8%)
APR	W	-376 (-2.5%)	-46 (-0.3%)
	AN	-115 (-1.1%)	601 (6.2%)
	BN	279 (3.2%)	707 (8.5%)
	D	485 (6.1%)	772 (10.1%)
	C	261 (3.4%)	173 (2.2%)
	All	56 (0.5%)	389 (3.7%)
MAY	W	-1,751 (-14%)	717 (7.1%)
	AN	1,110 (11.1%)	1,076 (10.7%)
	BN	158 (1.8%)	1,064 (13.5%)
	D	1,600 (18.4%)	1,265 (14%)
	C	869 (11.2%)	267 (3.2%)
	All	113 (1.1%)	883 (9.6%)
JUN	W	1,305 (11%)	1,490 (12.7%)
	AN	2,533 (21.1%)	1,744 (13.6%)
	BN	823 (7.2%)	636 (5.5%)
	D	1,250 (10.6%)	587 (4.7%)
	C	1,342 (12.3%)	346 (2.9%)
	All	1,396 (12%)	1,016 (8.4%)
JUL	W	1,332 (10%)	61 (0.4%)
	AN	586 (4.2%)	-426 (-2.8%)
	BN	-806 (-6.2%)	-1,053 (-7.9%)
	D	-681 (-5.1%)	-1,139 (-8.2%)
	C	-1,256 (-9.7%)	-400 (-3.3%)
	All	37 (0.3%)	-531 (-3.8%)

Alternative 1A: Upstream—Sacramento River Upstream of Red Bluff			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	-741 (-6.6%)	-192 (-1.8%)
	AN	134 (1.3%)	-1,061 (-9%)
	BN	-637 (-6.2%)	-799 (-7.7%)
	D	-1,713 (-15.9%)	-2,109 (-18.9%)
	C	-2,260 (-23.6%)	-335 (-4.4%)
	All	-1,031 (-9.7%)	-865 (-8.3%)
SEP	W	-2,380 (-24.2%)	-5,837 (-43.8%)
	AN	401 (6.4%)	-3,640 (-35.3%)
	BN	-172 (-2.9%)	-314 (-5.3%)
	D	-1,213 (-19%)	267 (5.4%)
	C	-494 (-8.4%)	555 (11.5%)
	All	-1,064 (-14.6%)	-2,297 (-26.9%)
OCT	W	1,180 (14.7%)	1,012 (12.4%)
	AN	1,373 (16.9%)	1,323 (16.2%)
	BN	2,583 (36.4%)	1,899 (24.4%)
	D	1,999 (29%)	1,615 (22.2%)
	C	2,020 (30.3%)	2,154 (32.9%)
	All	1,751 (23.6%)	1,508 (19.7%)
NOV	W	-205 (-2.1%)	-1,150 (-10.6%)
	AN	-1,736 (-21.3%)	-2,691 (-29.6%)
	BN	-820 (-12.1%)	-1,711 (-22.3%)
	D	-1,299 (-17.2%)	-1,097 (-14.9%)
	C	-626 (-10.8%)	-518 (-9.1%)
	All	-836 (-10.5%)	-1,367 (-16%)
DEC	W	-464 (-2.2%)	938 (4.8%)
	AN	53 (0.5%)	20 (0.2%)
	BN	51 (0.6%)	231 (2.8%)
	D	80 (1.1%)	280 (4%)
	C	-130 (-2.3%)	65 (1.2%)
	All	-132 (-1.1%)	411 (3.6%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.1.1.3 Sacramento River at Wilkins Slough**

2 **Table 5. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Wilkins Slough,**
 3 **Year-Round**

Alternative 1A: Upstream—Sacramento River at Wilkins Slough				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	19,145	19,320	19,341
	AN	17,084	16,593	17,356
	BN	12,521	12,143	13,377
	D	8,896	9,189	9,518
	C	7,858	8,586	7,802
	All	13,811	13,901	14,187
FEB	W	19,887	20,044	20,067
	AN	19,139	19,095	19,148
	BN	14,528	14,328	14,610
	D	11,520	11,473	11,630
	C	8,499	8,158	8,420
	All	15,359	15,309	15,445
MAR	W	18,223	18,323	18,384
	AN	17,696	17,537	17,642
	BN	12,208	11,534	12,052
	D	11,364	11,191	11,394
	C	8,101	8,166	8,415
	All	14,132	13,997	14,201
APR	W	13,392	13,119	13,151
	AN	10,264	9,783	10,391
	BN	7,152	6,858	7,554
	D	5,319	5,112	5,875
	C	4,164	4,331	4,479
	All	8,746	8,518	8,926
MAY	W	10,467	8,435	9,114
	AN	7,318	7,500	8,521
	BN	5,638	4,871	5,826
	D	4,669	5,088	6,277
	C	3,998	4,528	4,780
	All	6,962	6,383	7,209
JUN	W	6,503	6,435	7,833
	AN	5,781	6,530	8,184
	BN	5,243	5,628	6,152
	D	5,245	6,075	6,573
	C	5,140	6,253	6,397
	All	5,707	6,205	7,111
JUL	W	6,685	7,771	7,721
	AN	6,971	7,892	7,335
	BN	6,122	6,560	5,417
	D	6,788	7,474	6,246
	C	7,162	6,649	6,340
	All	6,723	7,353	6,745

Alternative 1A: Upstream—Sacramento River at Wilkins Slough				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
AUG	W	6,287	5,537	5,334
	AN	5,498	6,610	5,567
	BN	5,138	5,462	4,623
	D	5,833	6,356	4,239
	C	5,551	4,719	4,445
	All	5,768	5,741	4,876
SEP	W	9,338	12,737	6,918
	AN	5,631	9,546	5,969
	BN	5,128	5,216	4,926
	D	5,636	4,114	4,471
	C	5,200	4,354	4,999
	All	6,658	7,866	5,621
OCT	W	7,347	7,382	8,502
	AN	6,799	6,927	8,251
	BN	5,987	6,570	8,549
	D	5,688	6,040	7,704
	C	5,642	5,572	7,756
	All	6,421	6,617	8,189
NOV	W	9,644	10,889	9,580
	AN	8,210	9,141	6,331
	BN	6,793	7,588	5,757
	D	7,407	7,227	6,066
	C	5,118	4,986	4,407
	All	7,794	8,402	6,923
DEC	W	17,881	17,257	17,806
	AN	10,809	10,755	11,332
	BN	8,505	8,258	8,592
	D	8,950	8,725	9,013
	C	6,229	5,981	6,081
	All	11,580	11,246	11,639

1 **Table 6. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Wilkins Slough, Year-Round**

Alternative 1A: Upstream—Sacramento River at Wilkins Slough			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
JAN	W	197 (1%)	21 (0.1%)
	AN	272 (1.6%)	763 (4.6%)
	BN	856 (6.8%)	1,234 (10.2%)
	D	622 (7%)	329 (3.6%)
	C	-56 (-0.7%)	-784 (-9.1%)
	All	377 (2.7%)	286 (2.1%)
FEB	W	180 (0.9%)	23 (0.1%)
	AN	10 (0%)	53 (0.3%)
	BN	82 (0.6%)	282 (2%)
	D	111 (1%)	157 (1.4%)
	C	-78 (-0.9%)	262 (3.2%)
	All	85 (0.6%)	136 (0.9%)
MAR	W	162 (0.9%)	62 (0.3%)
	AN	-54 (-0.3%)	105 (0.6%)
	BN	-156 (-1.3%)	518 (4.5%)
	D	30 (0.3%)	203 (1.8%)
	C	314 (3.9%)	249 (3.1%)
	All	69 (0.5%)	204 (1.5%)
APR	W	-241 (-1.8%)	32 (0.2%)
	AN	128 (1.2%)	608 (6.2%)
	BN	402 (5.6%)	696 (10.2%)
	D	556 (10.5%)	763 (14.9%)
	C	315 (7.6%)	148 (3.4%)
	All	179 (2%)	407 (4.8%)
MAY	W	-1,353 (-12.9%)	679 (8%)
	AN	1,203 (16.4%)	1,021 (13.6%)
	BN	188 (3.3%)	955 (19.6%)
	D	1,607 (34.4%)	1,189 (23.4%)
	C	782 (19.5%)	252 (5.6%)
	All	247 (3.5%)	826 (12.9%)
JUN	W	1,329 (20.4%)	1,397 (21.7%)
	AN	2,403 (41.6%)	1,654 (25.3%)
	BN	910 (17.3%)	524 (9.3%)
	D	1,328 (25.3%)	499 (8.2%)
	C	1,256 (24.4%)	144 (2.3%)
	All	1,404 (24.6%)	905 (14.6%)
JUL	W	1,037 (15.5%)	-49 (-0.6%)
	AN	364 (5.2%)	-557 (-7.1%)
	BN	-705 (-11.5%)	-1,143 (-17.4%)
	D	-542 (-8%)	-1,228 (-16.4%)
	C	-822 (-11.5%)	-309 (-4.7%)
	All	23 (0.3%)	-607 (-8.3%)

Alternative 1A: Upstream—Sacramento River at Wilkins Slough			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
AUG	W	-953 (-15.2%)	-203 (-3.7%)
	AN	69 (1.3%)	-1,043 (-15.8%)
	BN	-515 (-10%)	-840 (-15.4%)
	D	-1,594 (-27.3%)	-2,117 (-33.3%)
	C	-1,107 (-19.9%)	-275 (-5.8%)
	All	-892 (-15.5%)	-865 (-15.1%)
SEP	W	-2,419 (-25.9%)	-5,819 (-45.7%)
	AN	338 (6%)	-3,576 (-37.5%)
	BN	-201 (-3.9%)	-289 (-5.5%)
	D	-1,165 (-20.7%)	357 (8.7%)
	C	-201 (-3.9%)	645 (14.8%)
	All	-1,037 (-15.6%)	-2,245 (-28.5%)
OCT	W	1,155 (15.7%)	1,120 (15.2%)
	AN	1,452 (21.4%)	1,324 (19.1%)
	BN	2,562 (42.8%)	1,979 (30.1%)
	D	2,016 (35.4%)	1,664 (27.5%)
	C	2,115 (37.5%)	2,184 (39.2%)
	All	1,768 (27.5%)	1,572 (23.8%)
NOV	W	-64 (-0.7%)	-1,310 (-12%)
	AN	-1,878 (-22.9%)	-2,809 (-30.7%)
	BN	-1,035 (-15.2%)	-1,830 (-24.1%)
	D	-1,341 (-18.1%)	-1,161 (-16.1%)
	C	-711 (-13.9%)	-579 (-11.6%)
	All	-870 (-11.2%)	-1,478 (-17.6%)
DEC	W	-76 (-0.4%)	549 (3.2%)
	AN	524 (4.8%)	578 (5.4%)
	BN	87 (1%)	334 (4%)
	D	63 (0.7%)	288 (3.3%)
	C	-147 (-2.4%)	100 (1.7%)
	All	60 (0.5%)	393 (3.5%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.1.1.4 Sacramento River at Verona**

2 **Table 7. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Verona,**
 3 **Year-Round**

Alternative 1A: Upstream—Sacramento River at Verona				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	44,589	45,567	45,067
	AN	34,120	33,671	32,916
	BN	20,175	19,121	18,786
	D	14,756	14,782	15,085
	C	12,085	13,051	11,627
	All	27,583	27,795	27,327
FEB	W	49,892	51,326	50,352
	AN	39,162	39,749	39,417
	BN	26,429	25,341	24,541
	D	18,402	18,090	17,520
	C	12,822	12,325	12,509
	All	31,979	32,192	31,600
MAR	W	43,455	44,624	42,706
	AN	39,477	39,687	38,335
	BN	21,484	19,448	18,812
	D	17,868	17,649	16,892
	C	11,903	11,789	11,725
	All	28,888	28,877	27,786
APR	W	32,219	31,636	29,537
	AN	22,250	21,313	20,833
	BN	14,459	13,857	14,968
	D	11,113	10,903	12,659
	C	9,420	9,489	10,042
	All	19,759	19,298	19,218
MAY	W	26,193	20,229	21,507
	AN	17,079	16,002	18,195
	BN	11,451	10,534	13,324
	D	9,283	9,841	11,262
	C	7,125	7,611	7,725
	All	15,840	13,828	15,359
JUN	W	18,367	15,304	17,666
	AN	13,590	13,574	17,364
	BN	11,062	11,320	13,654
	D	10,429	10,780	11,395
	C	8,911	9,827	9,623
	All	13,295	12,576	14,383
JUL	W	16,253	17,965	15,434
	AN	17,488	18,338	15,534
	BN	16,698	16,598	12,649
	D	16,352	16,465	11,470
	C	14,476	12,457	9,976
	All	16,271	16,651	13,304

Alternative 1A: Upstream—Sacramento River at Verona				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
AUG	W	12,464	14,016	11,675
	AN	13,691	15,828	12,848
	BN	13,389	14,074	10,373
	D	14,688	13,018	9,604
	C	9,207	8,085	7,564
	All	12,813	13,204	10,568
SEP	W	14,279	23,592	10,567
	AN	10,537	19,044	10,363
	BN	9,961	10,576	8,608
	D	10,542	7,664	8,432
	C	7,764	6,832	7,794
	All	11,220	14,755	9,328
OCT	W	11,503	11,232	12,506
	AN	9,381	9,890	11,699
	BN	9,867	10,146	12,239
	D	8,681	8,989	11,158
	C	8,543	8,104	11,622
	All	9,861	9,900	11,917
NOV	W	15,307	15,754	14,508
	AN	11,792	12,817	9,715
	BN	9,852	10,437	8,454
	D	10,157	9,731	8,622
	C	7,341	7,223	6,668
	All	11,565	11,846	10,334
DEC	W	33,840	31,254	31,026
	AN	17,572	18,481	19,160
	BN	13,099	13,028	13,674
	D	12,685	12,532	12,890
	C	9,770	8,627	9,804
	All	19,752	18,852	19,240

1 **Table 8. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Verona, Year-Round**

Alternative 1A: Upstream—Sacramento River at Verona			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	478 (1.1%)	-500 (-1.1%)
	AN	-1,205 (-3.5%)	-755 (-2.2%)
	BN	-1,390 (-6.9%)	-335 (-1.8%)
	D	329 (2.2%)	303 (2.1%)
	C	-458 (-3.8%)	-1,424 (-10.9%)
	All	-257 (-0.9%)	-468 (-1.7%)
FEB	W	460 (0.9%)	-973 (-1.9%)
	AN	255 (0.7%)	-332 (-0.8%)
	BN	-1,888 (-7.1%)	-800 (-3.2%)
	D	-883 (-4.8%)	-571 (-3.2%)
	C	-313 (-2.4%)	183 (1.5%)
	All	-379 (-1.2%)	-592 (-1.8%)
MAR	W	-749 (-1.7%)	-1,918 (-4.3%)
	AN	-1,142 (-2.9%)	-1,352 (-3.4%)
	BN	-2,672 (-12.4%)	-636 (-3.3%)
	D	-977 (-5.5%)	-758 (-4.3%)
	C	-179 (-1.5%)	-65 (-0.5%)
	All	-1,101 (-3.8%)	-1,090 (-3.8%)
APR	W	-2,682 (-8.3%)	-2,099 (-6.6%)
	AN	-1,418 (-6.4%)	-480 (-2.3%)
	BN	509 (3.5%)	1,111 (8%)
	D	1,545 (13.9%)	1,756 (16.1%)
	C	622 (6.6%)	553 (5.8%)
	All	-541 (-2.7%)	-80 (-0.4%)
MAY	W	-4,687 (-17.9%)	1,278 (6.3%)
	AN	1,116 (6.5%)	2,194 (13.7%)
	BN	1,872 (16.3%)	2,789 (26.5%)
	D	1,979 (21.3%)	1,421 (14.4%)
	C	600 (8.4%)	114 (1.5%)
	All	-481 (-3%)	1,531 (11.1%)
JUN	W	-701 (-3.8%)	2,362 (15.4%)
	AN	3,774 (27.8%)	3,790 (27.9%)
	BN	2,592 (23.4%)	2,334 (20.6%)
	D	966 (9.3%)	615 (5.7%)
	C	712 (8%)	-204 (-2.1%)
	All	1,089 (8.2%)	1,807 (14.4%)
JUL	W	-819 (-5%)	-2,531 (-14.1%)
	AN	-1,954 (-11.2%)	-2,804 (-15.3%)
	BN	-4,048 (-24.2%)	-3,949 (-23.8%)
	D	-4,882 (-29.9%)	-4,995 (-30.3%)
	C	-4,499 (-31.1%)	-2,481 (-19.9%)
	All	-2,967 (-18.2%)	-3,347 (-20.1%)

Alternative 1A: Upstream—Sacramento River at Verona			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	-789 (-6.3%)	-2,342 (-16.7%)
	AN	-844 (-6.2%)	-2,981 (-18.8%)
	BN	-3,016 (-22.5%)	-3,701 (-26.3%)
	D	-5,084 (-34.6%)	-3,414 (-26.2%)
	C	-1,643 (-17.8%)	-521 (-6.4%)
	All	-2,245 (-17.5%)	-2,636 (-20%)
SEP	W	-3,712 (-26%)	-13,025 (-55.2%)
	AN	-173 (-1.6%)	-8,680 (-45.6%)
	BN	-1,353 (-13.6%)	-1,968 (-18.6%)
	D	-2,110 (-20%)	768 (10%)
	C	30 (0.4%)	963 (14.1%)
	All	-1,892 (-16.9%)	-5,427 (-36.8%)
OCT	W	1,003 (8.7%)	1,274 (11.3%)
	AN	2,318 (24.7%)	1,809 (18.3%)
	BN	2,372 (24%)	2,093 (20.6%)
	D	2,477 (28.5%)	2,169 (24.1%)
	C	3,078 (36%)	3,518 (43.4%)
	All	2,056 (20.9%)	2,017 (20.4%)
NOV	W	-799 (-5.2%)	-1,246 (-7.9%)
	AN	-2,077 (-17.6%)	-3,102 (-24.2%)
	BN	-1,398 (-14.2%)	-1,983 (-19%)
	D	-1,534 (-15.1%)	-1,109 (-11.4%)
	C	-673 (-9.2%)	-555 (-7.7%)
	All	-1,231 (-10.6%)	-1,512 (-12.8%)
DEC	W	-2,814 (-8.3%)	-229 (-0.7%)
	AN	1,588 (9%)	679 (3.7%)
	BN	575 (4.4%)	646 (5%)
	D	205 (1.6%)	358 (2.9%)
	C	34 (0.3%)	1,177 (13.6%)
	All	-512 (-2.6%)	388 (2.1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.1.1.5 Trinity River below Lewiston**2 **Table 9. Mean Monthly Flows (cfs) for Model Scenarios in the Trinity River Below Lewiston, Year-Round**

Alternative 1A: Upstream—Trinity River below Lewiston				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL T
JAN	W	1,440	1,518	1,457
	AN	300	300	483
	BN	358	300	464
	D	300	300	300
	C	300	287	278
	All	671	684	718
FEB	W	1,056	1,495	1,400
	AN	689	784	1,043
	BN	517	568	641
	D	300	300	300
	C	300	300	300
	All	634	795	816
MAR	W	1,209	1,385	1,347
	AN	436	519	519
	BN	319	300	300
	D	300	300	300
	C	300	300	300
	All	611	676	664
APR	W	721	844	844
	AN	469	513	458
	BN	507	504	504
	D	529	529	529
	C	575	580	580
	All	584	630	622
MAY	W	4,636	4,620	4,620
	AN	4,462	4,416	4,416
	BN	3,774	3,865	3,865
	D	3,216	3,216	3,216
	C	2,092	1,973	1,973
	All	3,779	3,766	3,766
JUN	W	3,371	3,560	3,560
	AN	2,488	3,188	3,188
	BN	1,672	1,767	1,767
	D	1,251	1,251	1,251
	C	783	783	783
	All	2,108	2,286	2,286
JUL	W	1,289	1,103	1,103
	AN	1,048	1,048	1,048
	BN	869	916	916
	D	667	667	667
	C	450	413	413
	All	923	866	866

Alternative 1A: Upstream—Trinity River below Lewiston				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL T
AUG	W	450	450	450
	AN	450	450	450
	BN	450	450	450
	D	450	450	450
	C	450	338	337
	All	450	434	434
SEP	W	450	450	450
	AN	450	450	450
	BN	450	450	450
	D	450	450	450
	C	450	265	259
	All	450	423	422
OCT	W	373	373	373
	AN	373	311	323
	BN	346	346	346
	D	373	346	352
	C	373	311	290
	All	368	344	344
NOV	W	489	414	385
	AN	300	275	275
	BN	300	300	300
	D	300	283	283
	C	300	225	225
	All	360	318	309
DEC	W	1,072	837	1,011
	AN	300	300	300
	BN	300	300	300
	D	300	300	283
	C	300	275	250
	All	545	466	514

1 **Table 10. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Trinity River**
 2 **Below Lewiston, Year-Round**

Alternative 1A: Upstream—Trinity River below Lewiston			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	17 (1.2%)	-62 (-4.1%)
	AN	183 (60.9%)	183 (60.9%)
	BN	105 (29.4%)	164 (54.6%)
	D	0 (0%)	0 (0%)
	C	-22 (-7.2%)	-9 (-3.1%)
	All	47 (7%)	34 (5%)
FEB	W	344 (32.5%)	-95 (-6.4%)
	AN	354 (51.4%)	260 (33.1%)
	BN	125 (24.2%)	73 (12.9%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	182 (28.7%)	20 (2.6%)
MAR	W	138 (11.4%)	-38 (-2.8%)
	AN	83 (19.1%)	0 (0%)
	BN	-19 (-5.8%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	53 (8.6%)	-12 (-1.8%)
APR	W	122 (17%)	0 (0%)
	AN	-11 (-2.3%)	-54 (-10.6%)
	BN	-3 (-0.7%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	5 (0.9%)	0 (0%)
	All	37 (6.4%)	-8 (-1.3%)
MAY	W	-16 (-0.3%)	0 (0%)
	AN	-46 (-1%)	0 (0%)
	BN	90 (2.4%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-119 (-5.7%)	0 (0%)
	All	-14 (-0.4%)	0 (0%)
JUN	W	189 (5.6%)	0 (0%)
	AN	700 (28.1%)	0 (0%)
	BN	96 (5.7%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	179 (8.5%)	0 (0%)
JUL	W	-185 (-14.4%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	47 (5.4%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-38 (-8.3%)	0 (0%)
	All	-56 (-6.1%)	0 (0%)

Alternative 1A: Upstream—Trinity River below Lewiston			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-113 (-25%)	0 (0%)
	All	-16 (-3.7%)	0 (0%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-191 (-42.4%)	-6 (-2.3%)
	All	-28 (-6.2%)	-1 (-0.2%)
OCT	W	0 (0%)	0 (0%)
	AN	-50 (-13.4%)	12 (3.9%)
	BN	0 (0%)	0 (0%)
	D	-21 (-5.6%)	6 (1.9%)
	C	-83 (-22.3%)	-21 (-6.8%)
	All	-24 (-6.5%)	0 (0%)
NOV	W	-104 (-21.3%)	-29 (-7.1%)
	AN	-25 (-8.3%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	-17 (-5.6%)	0 (0%)
	C	-75 (-25%)	0 (0%)
	All	-51 (-14.2%)	-9 (-2.9%)
DEC	W	-61 (-5.7%)	174 (20.8%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	-17 (-5.5%)	-17 (-5.5%)
	C	-50 (-16.7%)	-25 (-9%)
	All	-30 (-5.6%)	48 (10.3%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.1.1.6 Clear Creek below Whiskeytown**2 **Table 11. Mean Monthly Flows (cfs) for Model Scenarios in Clear Creek Below Whiskeytown,**
3 **Year-Round**

Alternative 1A: Upstream—Clear Creek below Whiskeytown				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	220	339	339
	AN	192	192	192
	BN	189	189	189
	D	184	192	192
	C	155	159	163
	All	193	233	234
FEB	W	220	257	257
	AN	197	196	196
	BN	189	189	189
	D	184	192	192
	C	155	168	163
	All	194	209	208
MAR	W	200	259	258
	AN	197	196	196
	BN	189	202	196
	D	186	192	192
	C	155	168	163
	All	188	212	210
APR	W	200	200	200
	AN	197	196	196
	BN	189	189	189
	D	188	192	192
	C	155	168	163
	All	189	191	190
MAY	W	277	277	277
	AN	277	277	277
	BN	263	269	269
	D	264	264	264
	C	211	224	224
	All	262	265	265
JUN	W	200	200	200
	AN	200	200	200
	BN	181	186	186
	D	180	180	180
	C	115	131	120
	All	180	183	181
JUL	W	85	85	85
	AN	85	85	85
	BN	85	85	85
	D	85	85	85
	C	85	85	98
	All	85	85	87

Alternative 1A: Upstream—Clear Creek below Whiskeytown				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
AUG	W	85	85	85
	AN	85	85	85
	BN	85	85	85
	D	85	85	85
	C	94	71	78
	All	86	83	84
SEP	W	150	150	150
	AN	150	150	150
	BN	150	150	150
	D	144	150	150
	C	133	96	83
	All	146	142	140
OCT	W	198	198	198
	AN	183	183	183
	BN	189	182	189
	D	175	183	178
	C	150	142	154
	All	182	182	184
NOV	W	198	198	198
	AN	185	182	182
	BN	184	189	189
	D	177	177	180
	C	155	145	158
	All	183	182	184
DEC	W	198	198	198
	AN	185	192	192
	BN	189	189	189
	D	177	189	189
	C	155	156	150
	All	184	187	187

1 **Table 12. Differences^a (Percent Differences) between Pairs of Model Scenarios in Clear Creek Below**
 2 **Whiskeytown, Year-Round**

Alternative 1A: Upstream—Clear Creek below Whiskeytown			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	118 (53.6%)	0 (-0.1%)
	AN	0 (-0.1%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	7 (3.9%)	0 (0%)
	C	8 (5%)	4 (2.3%)
	All	40 (20.8%)	0 (0.2%)
FEB	W	38 (17.1%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	7 (3.9%)	0 (0%)
	C	8 (5%)	-5 (-3.2%)
	All	15 (7.5%)	-1 (-0.4%)
MAR	W	58 (29.2%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	6 (3.3%)	-6 (-3%)
	D	6 (3.2%)	0 (0%)
	C	8 (5%)	-5 (-3.2%)
	All	22 (11.7%)	-2 (-0.9%)
APR	W	0 (0%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	3 (1.7%)	0 (0%)
	C	8 (5%)	-5 (-3.2%)
	All	2 (0.9%)	-1 (-0.4%)
MAY	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	6 (2.2%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	13 (6.2%)	0 (0%)
	All	3 (1.1%)	0 (0%)
JUN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	5 (2.6%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	5 (4.7%)	-11 (-8.2%)
	All	2 (0.9%)	-2 (-0.9%)
JUL	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	13 (15.5%)	13 (15.5%)
	All	2 (2.3%)	2 (2.3%)

Alternative 1A: Upstream—Clear Creek below Whiskeytown			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-16 (-17.4%)	7 (10%)
	All	-2 (-2.8%)	1 (1.3%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	6 (3.8%)	0 (0%)
	C	-50 (-37.5%)	-13 (-13%)
	All	-6 (-4.2%)	-2 (-1.3%)
OCT	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	7 (4.1%)
	D	3 (1.7%)	-5 (-3%)
	C	4 (2.8%)	13 (8.8%)
	All	1 (0.7%)	2 (1.1%)
NOV	W	0 (0%)	0 (0%)
	AN	-3 (-1.8%)	0 (0%)
	BN	6 (3.1%)	0 (0%)
	D	2 (1.4%)	3 (1.8%)
	C	3 (1.9%)	13 (8.6%)
	All	1 (0.8%)	3 (1.4%)
DEC	W	0 (0%)	0 (0%)
	AN	7 (3.6%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	12 (6.6%)	0 (0%)
	C	-5 (-3.1%)	-6 (-3.6%)
	All	3 (1.5%)	-1 (-0.4%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.1.1.7 Feather River Low-Flow Channel (Upstream of Thermalito**
 2 **Afterbay)**

3 **Table 13. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River Upstream of Thermalito**
 4 **Afterbay (Low-Flow Channel), Year-Round**

Alternative 1A: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
FEB	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
MAR	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
APR	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
MAY	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
JUN	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700

Alternative 1A: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JUL	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
AUG	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
SEP	W	773	773	773
	AN	773	773	773
	BN	773	773	773
	D	773	773	773
	C	773	773	773
	All	773	773	773
OCT	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
NOV	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
DEC	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800

1 **Table 14. Differences (Percent Differences) between Pairs of Model Scenarios in the Feather River**
 2 **Upstream of Thermalito Afterbay (Low-Flow Channel), Year-Round**

Alternative 1A: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
FEB	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
MAR	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
APR	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
MAY	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
JUN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
JUL	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)

Alternative 1A: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
OCT	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
NOV	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
DEC	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)

1 **11C.1.1.8 Feather River High-Flow Channel (at Thermalito Afterbay)**

2 **Table 15. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at Thermalito Afterbay**
 3 **(High-Flow Channel), Year-Round**

Alternative 1A: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	11,257	11,896	14,399
	AN	4,434	2,838	4,107
	BN	2,640	1,441	1,584
	D	1,798	1,459	2,168
	C	1,459	1,648	1,403
	All	5,277	4,995	6,118
FEB	W	12,466	14,787	16,622
	AN	7,411	5,809	8,138
	BN	3,916	1,897	3,281
	D	1,817	1,659	1,866
	C	1,610	1,482	1,829
	All	6,340	6,444	7,699
MAR	W	12,895	14,772	14,988
	AN	7,733	8,568	10,417
	BN	3,373	1,985	2,333
	D	2,017	1,762	2,172
	C	1,697	1,634	1,667
	All	6,487	6,902	7,396
APR	W	6,472	6,408	6,389
	AN	2,251	2,170	2,504
	BN	1,205	1,203	2,152
	D	1,286	1,470	2,681
	C	1,389	1,407	1,903
	All	3,073	3,084	3,627
MAY	W	7,528	4,740	5,415
	AN	3,340	3,101	4,350
	BN	1,205	1,749	3,667
	D	1,591	2,223	2,552
	C	1,574	1,790	1,762
	All	3,661	3,005	3,798
JUN	W	5,062	4,211	5,281
	AN	3,301	3,930	6,278
	BN	2,707	3,552	5,456
	D	3,134	3,284	3,496
	C	2,695	2,666	2,563
	All	3,632	3,628	4,667
JUL	W	6,490	8,577	6,392
	AN	8,757	9,488	7,576
	BN	8,981	8,833	6,216
	D	8,294	8,099	4,420
	C	6,703	5,217	2,936
	All	7,674	8,157	5,597

Alternative 1A: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
AUG	W	3,308	6,228	4,584
	AN	6,042	7,346	5,708
	BN	6,295	6,868	4,251
	D	7,036	4,990	3,859
	C	2,613	2,163	2,034
	All	4,935	5,634	4,159
SEP	W	2,280	8,327	1,172
	AN	2,253	6,899	1,902
	BN	2,466	3,068	1,455
	D	2,366	1,052	1,658
	C	1,421	1,345	1,744
	All	2,201	4,601	1,518
OCT	W	3,456	3,051	3,260
	AN	2,386	2,741	3,303
	BN	3,183	2,862	3,043
	D	2,688	2,652	3,220
	C	2,472	2,102	3,506
	All	2,940	2,747	3,256
NOV	W	3,292	2,470	2,747
	AN	1,824	2,119	1,915
	BN	2,101	1,900	1,854
	D	1,859	1,664	1,811
	C	1,854	1,876	2,016
	All	2,349	2,058	2,160
DEC	W	7,157	3,948	5,927
	AN	2,951	3,344	4,443
	BN	2,176	2,102	2,748
	D	2,364	2,229	2,690
	C	2,609	1,694	2,889
	All	3,973	2,837	4,012

1 **Table 16. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Feather River at**
 2 **Thermalito Afterbay (High-Flow Channel), Year-Round**

Alternative 1A: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
JAN	W	3,141 (27.9%)	2,503 (21%)
	AN	-327 (-7.4%)	1,269 (44.7%)
	BN	-1,056 (-40%)	143 (9.9%)
	D	370 (20.6%)	709 (48.6%)
	C	-57 (-3.9%)	-245 (-14.9%)
	All	841 (15.9%)	1,124 (22.5%)
FEB	W	4,156 (33.3%)	1,835 (12.4%)
	AN	727 (9.8%)	2,329 (40.1%)
	BN	-635 (-16.2%)	1,384 (73%)
	D	49 (2.7%)	206 (12.4%)
	C	219 (13.6%)	347 (23.4%)
	All	1,358 (21.4%)	1,255 (19.5%)
MAR	W	2,093 (16.2%)	216 (1.5%)
	AN	2,684 (34.7%)	1,849 (21.6%)
	BN	-1,040 (-30.8%)	348 (17.6%)
	D	156 (7.7%)	410 (23.3%)
	C	-30 (-1.7%)	34 (2.1%)
	All	908 (14%)	493 (7.1%)
APR	W	-84 (-1.3%)	-19 (-0.3%)
	AN	252 (11.2%)	333 (15.4%)
	BN	948 (78.7%)	949 (78.9%)
	D	1,395 (108.5%)	1,211 (82.3%)
	C	514 (37%)	495 (35.2%)
	All	554 (18%)	543 (17.6%)
MAY	W	-2,113 (-28.1%)	675 (14.2%)
	AN	1,010 (30.2%)	1,249 (40.3%)
	BN	2,462 (204.3%)	1,919 (109.7%)
	D	960 (60.3%)	328 (14.8%)
	C	188 (11.9%)	-28 (-1.5%)
	All	137 (3.7%)	793 (26.4%)
JUN	W	219 (4.3%)	1,070 (25.4%)
	AN	2,977 (90.2%)	2,349 (59.8%)
	BN	2,749 (101.6%)	1,904 (53.6%)
	D	363 (11.6%)	212 (6.5%)
	C	-131 (-4.9%)	-103 (-3.8%)
	All	1,035 (28.5%)	1,040 (28.7%)
JUL	W	-98 (-1.5%)	-2,185 (-25.5%)
	AN	-1,181 (-13.5%)	-1,912 (-20.2%)
	BN	-2,764 (-30.8%)	-2,616 (-29.6%)
	D	-3,874 (-46.7%)	-3,678 (-45.4%)
	C	-3,767 (-56.2%)	-2,281 (-43.7%)
	All	-2,078 (-27.1%)	-2,561 (-31.4%)

Alternative 1A: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
AUG	W	1,276 (38.6%)	-1,644 (-26.4%)
	AN	-334 (-5.5%)	-1,637 (-22.3%)
	BN	-2,044 (-32.5%)	-2,617 (-38.1%)
	D	-3,177 (-45.2%)	-1,131 (-22.7%)
	C	-579 (-22.2%)	-129 (-6%)
	All	-776 (-15.7%)	-1,475 (-26.2%)
SEP	W	-1,108 (-48.6%)	-7,155 (-85.9%)
	AN	-351 (-15.6%)	-4,997 (-72.4%)
	BN	-1,011 (-41%)	-1,613 (-52.6%)
	D	-707 (-29.9%)	606 (57.6%)
	C	323 (22.8%)	399 (29.7%)
	All	-683 (-31%)	-3,084 (-67%)
OCT	W	-196 (-5.7%)	209 (6.8%)
	AN	917 (38.4%)	562 (20.5%)
	BN	-140 (-4.4%)	181 (6.3%)
	D	532 (19.8%)	568 (21.4%)
	C	1,035 (41.9%)	1,404 (66.8%)
	All	316 (10.7%)	509 (18.5%)
NOV	W	-545 (-16.6%)	277 (11.2%)
	AN	91 (5%)	-204 (-9.6%)
	BN	-248 (-11.8%)	-47 (-2.5%)
	D	-48 (-2.6%)	147 (8.8%)
	C	162 (8.7%)	140 (7.5%)
	All	-189 (-8%)	103 (5%)
DEC	W	-1,230 (-17.2%)	1,979 (50.1%)
	AN	1,492 (50.6%)	1,099 (32.9%)
	BN	573 (26.3%)	646 (30.8%)
	D	327 (13.8%)	461 (20.7%)
	C	280 (10.7%)	1,195 (70.5%)
	All	39 (1%)	1,175 (41.4%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.1.1.9 Feather River at Confluence with Sacramento River**

2 **Table 17. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at the Confluence with**
 3 **the Sacramento River, Year-Round**

Alternative 1A: Upstream—Feather River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	23,533	26,106	28,604
	AN	12,430	11,953	13,232
	BN	6,499	5,575	5,715
	D	4,621	4,412	5,143
	C	3,646	3,837	3,587
	All	11,938	12,509	13,636
FEB	W	27,039	31,065	32,896
	AN	14,818	14,599	16,932
	BN	9,153	7,892	9,278
	D	4,402	4,436	4,645
	C	3,237	3,096	3,452
	All	13,744	14,761	16,017
MAR	W	24,172	26,784	27,009
	AN	19,990	21,490	23,340
	BN	8,136	6,882	7,254
	D	5,073	4,940	5,336
	C	2,933	2,756	2,844
	All	13,521	14,300	14,806
APR	W	15,897	15,852	15,845
	AN	9,832	9,585	9,924
	BN	5,401	5,189	6,147
	D	4,152	4,137	5,354
	C	3,298	3,185	3,692
	All	8,796	8,689	9,242
MAY	W	14,387	10,385	11,072
	AN	8,068	6,884	8,143
	BN	4,704	4,509	6,432
	D	3,652	3,767	4,094
	C	2,389	2,321	2,284
	All	7,697	6,237	7,034
JUN	W	10,222	7,199	8,247
	AN	6,391	5,598	7,792
	BN	4,495	4,342	6,243
	D	3,853	3,367	3,582
	C	2,782	2,522	2,316
	All	6,197	4,951	5,946
JUL	W	8,177	8,734	6,307
	AN	9,322	9,223	7,031
	BN	9,380	8,725	5,998
	D	8,290	7,674	3,932
	C	6,450	4,891	2,564
	All	8,322	8,009	5,291

Alternative 1A: Upstream—Feather River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
AUG	W	4,923	7,222	5,092
	AN	7,080	8,089	6,149
	BN	7,236	7,570	4,700
	D	7,711	5,487	4,216
	C	2,841	2,340	2,130
	All	5,941	6,313	4,554
SEP	W	4,351	10,329	3,162
	AN	4,194	8,773	3,772
	BN	4,252	4,786	3,190
	D	4,179	2,848	3,344
	C	2,054	1,964	2,316
	All	3,937	6,289	3,172
OCT	W	4,176	3,746	3,987
	AN	2,630	2,988	3,557
	BN	3,754	3,437	3,625
	D	3,033	2,987	3,572
	C	2,938	2,566	3,977
	All	3,446	3,243	3,770
NOV	W	4,697	3,825	4,078
	AN	3,065	3,186	2,958
	BN	2,687	2,455	2,400
	D	2,342	2,125	2,268
	C	2,084	2,107	2,216
	All	3,216	2,873	2,958
DEC	W	12,409	10,246	12,227
	AN	5,193	6,000	7,105
	BN	3,079	3,249	3,899
	D	2,838	2,811	3,273
	C	2,975	2,054	3,256
	All	6,279	5,599	6,777

1 **Table 18. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Feather River at**
 2 **the Confluence with the Sacramento River, Year-Round**

Alternative 1A: Upstream—Feather River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	5,071 (21.6%)	2,499 (9.6%)
	AN	803 (6.5%)	1,279 (10.7%)
	BN	-784 (-12.1%)	140 (2.5%)
	D	522 (11.3%)	731 (16.6%)
	C	-60 (-1.6%)	-250 (-6.5%)
	All	1,697 (14.2%)	1,127 (9%)
FEB	W	5,857 (21.7%)	1,831 (5.9%)
	AN	2,113 (14.3%)	2,332 (16%)
	BN	125 (1.4%)	1,386 (17.6%)
	D	243 (5.5%)	209 (4.7%)
	C	215 (6.6%)	356 (11.5%)
	All	2,273 (16.5%)	1,256 (8.5%)
MAR	W	2,838 (11.7%)	226 (0.8%)
	AN	3,350 (16.8%)	1,850 (8.6%)
	BN	-882 (-10.8%)	372 (5.4%)
	D	264 (5.2%)	397 (8%)
	C	-89 (-3%)	87 (3.2%)
	All	1,284 (9.5%)	506 (3.5%)
APR	W	-52 (-0.3%)	-7 (0%)
	AN	92 (0.9%)	339 (3.5%)
	BN	747 (13.8%)	959 (18.5%)
	D	1,203 (29%)	1,218 (29.4%)
	C	394 (11.9%)	507 (15.9%)
	All	446 (5.1%)	553 (6.4%)
MAY	W	-3,314 (-23%)	687 (6.6%)
	AN	75 (0.9%)	1,259 (18.3%)
	BN	1,728 (36.7%)	1,924 (42.7%)
	D	442 (12.1%)	327 (8.7%)
	C	-104 (-4.4%)	-36 (-1.6%)
	All	-663 (-8.6%)	797 (12.8%)
JUN	W	-1,975 (-19.3%)	1,048 (14.6%)
	AN	1,401 (21.9%)	2,195 (39.2%)
	BN	1,748 (38.9%)	1,901 (43.8%)
	D	-271 (-7%)	215 (6.4%)
	C	-467 (-16.8%)	-206 (-8.2%)
	All	-250 (-4%)	995 (20.1%)
JUL	W	-1,870 (-22.9%)	-2,427 (-27.8%)
	AN	-2,291 (-24.6%)	-2,191 (-23.8%)
	BN	-3,382 (-36.1%)	-2,727 (-31.3%)
	D	-4,357 (-52.6%)	-3,742 (-48.8%)
	C	-3,887 (-60.3%)	-2,328 (-47.6%)
	All	-3,031 (-36.4%)	-2,718 (-33.9%)

Alternative 1A: Upstream—Feather River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	169 (3.4%)	-2,130 (-29.5%)
	AN	-931 (-13.2%)	-1,940 (-24%)
	BN	-2,535 (-35%)	-2,869 (-37.9%)
	D	-3,496 (-45.3%)	-1,272 (-23.2%)
	C	-711 (-25%)	-210 (-9%)
	All	-1,387 (-23.3%)	-1,759 (-27.9%)
SEP	W	-1,190 (-27.3%)	-7,168 (-69.4%)
	AN	-423 (-10.1%)	-5,002 (-57%)
	BN	-1,062 (-25%)	-1,596 (-33.3%)
	D	-835 (-20%)	496 (17.4%)
	C	262 (12.7%)	352 (17.9%)
	All	-765 (-19.4%)	-3,117 (-49.6%)
OCT	W	-189 (-4.5%)	241 (6.4%)
	AN	927 (35.2%)	569 (19%)
	BN	-129 (-3.4%)	187 (5.4%)
	D	540 (17.8%)	585 (19.6%)
	C	1,039 (35.4%)	1,412 (55%)
	All	324 (9.4%)	527 (16.2%)
NOV	W	-618 (-13.2%)	253 (6.6%)
	AN	-107 (-3.5%)	-229 (-7.2%)
	BN	-287 (-10.7%)	-55 (-2.2%)
	D	-74 (-3.2%)	144 (6.8%)
	C	132 (6.3%)	109 (5.2%)
	All	-258 (-8%)	85 (3%)
DEC	W	-182 (-1.5%)	1,982 (19.3%)
	AN	1,912 (36.8%)	1,105 (18.4%)
	BN	819 (26.6%)	650 (20%)
	D	435 (15.3%)	461 (16.4%)
	C	281 (9.5%)	1,202 (58.5%)
	All	499 (7.9%)	1,178 (21%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.1.1.10 American River at Nimbus Dam**

2 **Table 19. Mean Monthly Flows (cfs) for Model Scenarios in the American River at Nimbus Dam,**
 3 **Year-Round**

Alternative 1A: Upstream—American River at Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	8,806	11,036	11,011
	AN	4,833	5,805	5,803
	BN	2,392	2,073	2,149
	D	1,723	1,506	1,535
	C	1,474	1,095	1,109
	All	4,502	5,194	5,207
FEB	W	9,294	11,102	11,122
	AN	6,469	8,153	8,361
	BN	4,360	4,961	5,174
	D	1,852	1,844	1,923
	C	1,185	1,007	1,055
	All	5,218	6,112	6,210
MAR	W	6,089	6,992	6,987
	AN	5,454	5,790	5,870
	BN	2,429	2,794	2,688
	D	2,191	2,314	2,113
	C	939	938	862
	All	3,762	4,187	4,123
APR	W	5,300	5,508	5,519
	AN	3,546	3,298	3,337
	BN	3,126	2,970	3,156
	D	1,837	1,888	2,012
	C	1,156	1,255	1,289
	All	3,305	3,334	3,407
MAY	W	6,157	4,592	4,718
	AN	3,885	2,521	2,944
	BN	2,930	1,969	2,517
	D	1,790	1,686	2,134
	C	1,182	992	1,009
	All	3,587	2,676	2,973
JUN	W	6,003	3,694	4,568
	AN	3,346	3,022	3,857
	BN	2,863	2,883	3,768
	D	2,506	2,596	2,552
	C	1,824	1,025	1,258
	All	3,699	2,825	3,400
JUL	W	4,108	3,860	3,530
	AN	4,638	4,927	4,253
	BN	4,744	4,328	3,660
	D	3,577	3,143	2,494
	C	1,784	2,022	1,895
	All	3,838	3,670	3,191

Alternative 1A: Upstream—American River at Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
AUG	W	3,520	2,132	2,159
	AN	2,542	1,944	1,810
	BN	2,495	2,324	1,633
	D	2,613	1,620	1,328
	C	1,500	1,100	940
	All	2,707	1,874	1,657
SEP	W	4,025	3,622	1,906
	AN	2,764	2,044	1,500
	BN	2,370	1,605	1,363
	D	1,856	1,182	1,141
	C	1,164	594	588
	All	2,663	2,068	1,393
OCT	W	1,723	1,634	1,823
	AN	1,706	1,732	1,976
	BN	1,602	1,767	2,177
	D	1,468	1,258	1,717
	C	1,461	1,655	2,080
	All	1,605	1,592	1,920
NOV	W	3,527	2,612	2,578
	AN	3,181	2,554	2,120
	BN	2,067	1,716	1,647
	D	2,176	1,424	1,394
	C	1,994	1,608	1,655
	All	2,706	2,043	1,957
DEC	W	6,302	6,171	6,435
	AN	3,137	2,933	2,966
	BN	2,676	2,527	2,704
	D	1,741	1,351	1,349
	C	1,524	1,251	1,239
	All	3,519	3,297	3,413

1 **Table 20. Differences^a (Percent Differences) between Pairs of Model Scenarios in the American River**
 2 **at Nimbus Dam, Year-Round**

Alternative 1A: Upstream—American River at Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	2,205 (25%)	-25 (-0.2%)
	AN	970 (20.1%)	-2 (0%)
	BN	-243 (-10.2%)	76 (3.7%)
	D	-188 (-10.9%)	29 (1.9%)
	C	-365 (-24.8%)	14 (1.3%)
	All	705 (15.7%)	13 (0.3%)
FEB	W	1,828 (19.7%)	20 (0.2%)
	AN	1,892 (29.2%)	208 (2.5%)
	BN	814 (18.7%)	213 (4.3%)
	D	70 (3.8%)	79 (4.3%)
	C	-130 (-11%)	48 (4.8%)
	All	992 (19%)	97 (1.6%)
MAR	W	899 (14.8%)	-5 (-0.1%)
	AN	416 (7.6%)	79 (1.4%)
	BN	259 (10.7%)	-106 (-3.8%)
	D	-79 (-3.6%)	-202 (-8.7%)
	C	-77 (-8.2%)	-76 (-8.1%)
	All	361 (9.6%)	-63 (-1.5%)
APR	W	219 (4.1%)	11 (0.2%)
	AN	-209 (-5.9%)	38 (1.2%)
	BN	31 (1%)	187 (6.3%)
	D	175 (9.5%)	124 (6.6%)
	C	133 (11.5%)	34 (2.7%)
	All	102 (3.1%)	73 (2.2%)
MAY	W	-1,438 (-23.4%)	127 (2.8%)
	AN	-941 (-24.2%)	423 (16.8%)
	BN	-413 (-14.1%)	548 (27.8%)
	D	344 (19.2%)	448 (26.6%)
	C	-173 (-14.6%)	17 (1.7%)
	All	-614 (-17.1%)	296 (11.1%)
JUN	W	-1,435 (-23.9%)	874 (23.7%)
	AN	511 (15.3%)	834 (27.6%)
	BN	904 (31.6%)	885 (30.7%)
	D	47 (1.9%)	-44 (-1.7%)
	C	-566 (-31%)	234 (22.8%)
	All	-299 (-8.1%)	575 (20.3%)
JUL	W	-578 (-14.1%)	-330 (-8.5%)
	AN	-385 (-8.3%)	-674 (-13.7%)
	BN	-1,084 (-22.8%)	-668 (-15.4%)
	D	-1,084 (-30.3%)	-650 (-20.7%)
	C	111 (6.2%)	-127 (-6.3%)
	All	-646 (-16.8%)	-479 (-13%)

Alternative 1A: Upstream—American River at Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	-1,362 (-38.7%)	27 (1.2%)
	AN	-732 (-28.8%)	-135 (-6.9%)
	BN	-862 (-34.6%)	-692 (-29.8%)
	D	-1,285 (-49.2%)	-292 (-18%)
	C	-560 (-37.3%)	-160 (-14.5%)
	All	-1,050 (-38.8%)	-217 (-11.6%)
SEP	W	-2,118 (-52.6%)	-1,716 (-47.4%)
	AN	-1,264 (-45.7%)	-543 (-26.6%)
	BN	-1,008 (-42.5%)	-242 (-15.1%)
	D	-715 (-38.5%)	-41 (-3.5%)
	C	-577 (-49.5%)	-6 (-1%)
	All	-1,270 (-47.7%)	-675 (-32.6%)
OCT	W	100 (5.8%)	188 (11.5%)
	AN	270 (15.8%)	244 (14.1%)
	BN	575 (35.9%)	410 (23.2%)
	D	249 (17%)	459 (36.5%)
	C	620 (42.4%)	426 (25.7%)
	All	315 (19.6%)	329 (20.7%)
NOV	W	-949 (-26.9%)	-34 (-1.3%)
	AN	-1,061 (-33.3%)	-434 (-17%)
	BN	-421 (-20.3%)	-70 (-4.1%)
	D	-783 (-36%)	-31 (-2.1%)
	C	-339 (-17%)	48 (3%)
	All	-749 (-27.7%)	-86 (-4.2%)
DEC	W	134 (2.1%)	264 (4.3%)
	AN	-171 (-5.5%)	33 (1.1%)
	BN	28 (1%)	177 (7%)
	D	-392 (-22.5%)	-3 (-0.2%)
	C	-285 (-18.7%)	-12 (-1%)
	All	-106 (-3%)	116 (3.5%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.1.1.11 American River at Confluence with Sacramento River**

2 **Table 21. Mean Monthly Flows (cfs) for Model Scenarios in the American River at the Confluence with**
 3 **the Sacramento River, Year-Round**

Alternative 1A: Upstream—American River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	8,748	10,960	10,932
	AN	4,806	5,760	5,764
	BN	2,326	1,988	2,063
	D	1,654	1,424	1,458
	C	1,403	1,008	1,027
	All	4,443	5,118	5,132
FEB	W	9,183	10,947	10,967
	AN	6,422	8,073	8,280
	BN	4,309	4,888	5,100
	D	1,781	1,756	1,835
	C	1,119	921	970
	All	5,142	6,007	6,104
MAR	W	5,979	6,837	6,832
	AN	5,364	5,661	5,739
	BN	2,340	2,672	2,565
	D	2,121	2,224	2,022
	C	864	836	759
	All	3,672	4,063	3,999
APR	W	5,156	5,300	5,310
	AN	3,383	3,079	3,117
	BN	2,984	2,778	2,966
	D	1,672	1,677	1,802
	C	996	1,059	1,094
	All	3,152	3,128	3,202
MAY	W	5,959	4,332	4,459
	AN	3,700	2,285	2,708
	BN	2,733	1,726	2,273
	D	1,605	1,454	1,901
	C	1,014	790	806
	All	3,398	2,438	2,733
JUN	W	5,743	3,388	4,261
	AN	3,103	2,736	3,566
	BN	2,631	2,603	3,483
	D	2,282	2,320	2,272
	C	1,621	793	1,026
	All	3,462	2,545	3,117
JUL	W	3,844	3,560	3,223
	AN	4,399	4,635	3,954
	BN	4,509	4,038	3,363
	D	3,347	2,858	2,209
	C	1,568	1,784	1,651
	All	3,597	3,385	2,901

Alternative 1A: Upstream—American River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
AUG	W	3,295	1,858	1,887
	AN	2,313	1,663	1,534
	BN	2,265	2,048	1,362
	D	2,395	1,357	1,071
	C	1,314	899	744
	All	2,488	1,612	1,400
SEP	W	3,846	3,415	1,699
	AN	2,594	1,838	1,296
	BN	2,205	1,402	1,166
	D	1,691	987	949
	C	1,011	427	421
	All	2,495	1,870	1,197
OCT	W	1,607	1,499	1,695
	AN	1,597	1,613	1,855
	BN	1,472	1,617	2,042
	D	1,344	1,114	1,579
	C	1,342	1,517	1,945
	All	1,486	1,454	1,789
NOV	W	3,472	2,540	2,504
	AN	3,100	2,455	2,019
	BN	1,990	1,618	1,544
	D	2,094	1,326	1,291
	C	1,897	1,489	1,540
	All	2,632	1,950	1,862
DEC	W	6,255	6,115	6,379
	AN	3,072	2,856	2,899
	BN	2,609	2,445	2,628
	D	1,675	1,275	1,273
	C	1,443	1,158	1,156
	All	3,457	3,224	3,344

1 **Table 22. Differences^a (Percent Differences) between Pairs of Model Scenarios in the American River**
 2 **at the Confluence with the Sacramento River, Year-Round**

Alternative 1A: Upstream—American River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	2,185 (25%)	-28 (-0.3%)
	AN	958 (19.9%)	4 (0.1%)
	BN	-264 (-11.3%)	75 (3.7%)
	D	-197 (-11.9%)	33 (2.3%)
	C	-376 (-26.8%)	20 (2%)
	All	690 (15.5%)	15 (0.3%)
FEB	W	1,784 (19.4%)	20 (0.2%)
	AN	1,858 (28.9%)	208 (2.6%)
	BN	792 (18.4%)	212 (4.3%)
	D	54 (3%)	79 (4.5%)
	C	-149 (-13.3%)	49 (5.3%)
	All	963 (18.7%)	97 (1.6%)
MAR	W	852 (14.3%)	-5 (-0.1%)
	AN	374 (7%)	77 (1.4%)
	BN	225 (9.6%)	-108 (-4%)
	D	-99 (-4.7%)	-202 (-9.1%)
	C	-105 (-12.2%)	-77 (-9.2%)
	All	326 (8.9%)	-64 (-1.6%)
APR	W	155 (3%)	11 (0.2%)
	AN	-266 (-7.9%)	38 (1.2%)
	BN	-18 (-0.6%)	188 (6.8%)
	D	130 (7.8%)	126 (7.5%)
	C	98 (9.9%)	35 (3.3%)
	All	50 (1.6%)	74 (2.4%)
MAY	W	-1,500 (-25.2%)	126 (2.9%)
	AN	-991 (-26.8%)	423 (18.5%)
	BN	-461 (-16.9%)	546 (31.6%)
	D	296 (18.5%)	447 (30.7%)
	C	-208 (-20.5%)	16 (2%)
	All	-665 (-19.6%)	296 (12.1%)
JUN	W	-1,481 (-25.8%)	873 (25.8%)
	AN	463 (14.9%)	831 (30.4%)
	BN	852 (32.4%)	880 (33.8%)
	D	-10 (-0.4%)	-48 (-2.1%)
	C	-595 (-36.7%)	233 (29.4%)
	All	-346 (-10%)	572 (22.5%)
JUL	W	-621 (-16.2%)	-338 (-9.5%)
	AN	-445 (-10.1%)	-682 (-14.7%)
	BN	-1,147 (-25.4%)	-676 (-16.7%)
	D	-1,138 (-34%)	-649 (-22.7%)
	C	83 (5.3%)	-132 (-7.4%)
	All	-695 (-19.3%)	-484 (-14.3%)

Alternative 1A: Upstream—American River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
AUG	W	-1,407 (-42.7%)	30 (1.6%)
	AN	-779 (-33.7%)	-129 (-7.8%)
	BN	-902 (-39.8%)	-686 (-33.5%)
	D	-1,324 (-55.3%)	-285 (-21%)
	C	-570 (-43.4%)	-156 (-17.3%)
	All	-1,088 (-43.7%)	-212 (-13.2%)
SEP	W	-2,147 (-55.8%)	-1,716 (-50.3%)
	AN	-1,298 (-50.1%)	-542 (-29.5%)
	BN	-1,040 (-47.1%)	-236 (-16.8%)
	D	-742 (-43.9%)	-38 (-3.9%)
	C	-590 (-58.3%)	-6 (-1.3%)
	All	-1,297 (-52%)	-673 (-36%)
OCT	W	87 (5.4%)	196 (13.1%)
	AN	258 (16.1%)	242 (15%)
	BN	570 (38.7%)	426 (26.3%)
	D	236 (17.5%)	465 (41.8%)
	C	603 (44.9%)	428 (28.2%)
	All	303 (20.4%)	335 (23%)
NOV	W	-968 (-27.9%)	-35 (-1.4%)
	AN	-1,081 (-34.9%)	-436 (-17.8%)
	BN	-445 (-22.4%)	-74 (-4.6%)
	D	-803 (-38.3%)	-35 (-2.6%)
	C	-357 (-18.8%)	50 (3.4%)
	All	-770 (-29.3%)	-88 (-4.5%)
DEC	W	124 (2%)	264 (4.3%)
	AN	-173 (-5.6%)	43 (1.5%)
	BN	19 (0.7%)	183 (7.5%)
	D	-402 (-24%)	-2 (-0.2%)
	C	-287 (-19.9%)	-2 (-0.2%)
	All	-113 (-3.3%)	120 (3.7%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.1.1.12 Stanislaus River at the Confluence with the San Joaquin River**

2 **Table 23. Mean Monthly Flows (cfs) for Model Scenarios in the Stanislaus River at the Confluence with**
 3 **the San Joaquin River, Year-Round**

Alternative 1A: Upstream—Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT^a	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	956	885	885
	AN	843	963	963
	BN	416	369	369
	D	403	366	366
	C	314	265	265
	All	635	615	615
FEB	W	1,285	1,236	1,238
	AN	917	858	858
	BN	551	438	438
	D	562	359	359
	C	490	348	348
	All	827	723	724
MAR	W	2,063	2,217	2,216
	AN	1,295	956	956
	BN	732	548	547
	D	559	390	390
	C	541	444	444
	All	1,167	1,071	1,071
APR	W	2,054	1,965	1,965
	AN	1,719	1,535	1,534
	BN	1,494	1,211	1,210
	D	1,438	1,199	1,198
	C	823	670	670
	All	1,562	1,387	1,387
MAY	W	1,653	1,613	1,614
	AN	1,389	1,243	1,243
	BN	1,238	898	898
	D	1,140	916	916
	C	715	627	627
	All	1,271	1,125	1,125
JUN	W	1,608	1,763	1,761
	AN	1,134	985	984
	BN	663	568	566
	D	447	364	365
	C	332	296	294
	All	932	914	912
JUL	W	1,064	1,080	1,080
	AN	489	454	454
	BN	450	425	425
	D	398	359	360
	C	337	310	312
	All	607	590	590

Alternative 1A: Upstream—Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT^a	EXISTING CONDITIONS	NAA	A1A_LL1
AUG	W	930	717	717
	AN	476	454	454
	BN	423	418	418
	D	387	382	382
	C	341	338	338
	All	560	491	491
SEP	W	1,040	863	863
	AN	502	474	474
	BN	417	407	407
	D	395	390	390
	C	324	317	327
	All	595	533	535
OCT	W	897	845	846
	AN	873	822	825
	BN	903	844	844
	D	984	925	925
	C	689	612	612
	All	867	808	808
NOV	W	426	408	408
	AN	580	524	524
	BN	341	334	334
	D	345	321	321
	C	325	308	309
	All	410	386	386
DEC	W	512	429	418
	AN	722	697	697
	BN	331	353	353
	D	317	294	294
	C	289	272	272
	All	450	417	414

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 24. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Stanislaus River**
 2 **at the Confluence with the San Joaquin River, Year-Round**

Alternative 1A: Upstream—Stanislaus River at Confluence with San Joaquin River			
Month	WYT ^b	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
JAN	W	-71 (-7.4%)	0 (0%)
	AN	120 (14.3%)	0 (0%)
	BN	-47 (-11.3%)	0 (0%)
	D	-37 (-9.1%)	0 (0%)
	C	-49 (-15.5%)	0 (0%)
	All	-20 (-3.2%)	0 (0%)
FEB	W	-46 (-3.6%)	2 (0.2%)
	AN	-59 (-6.4%)	0 (0%)
	BN	-113 (-20.5%)	0 (0%)
	D	-203 (-36.2%)	0 (0%)
	C	-142 (-29%)	0 (0%)
	All	-103 (-12.5%)	1 (0.1%)
MAR	W	153 (7.4%)	0 (0%)
	AN	-339 (-26.2%)	0 (0%)
	BN	-185 (-25.2%)	0 (-0.1%)
	D	-169 (-30.2%)	0 (-0.1%)
	C	-97 (-17.9%)	0 (0%)
	All	-96 (-8.2%)	0 (0%)
APR	W	-89 (-4.3%)	0 (0%)
	AN	-185 (-10.8%)	0 (0%)
	BN	-283 (-19%)	-1 (0%)
	D	-240 (-16.7%)	0 (0%)
	C	-153 (-18.6%)	0 (0.1%)
	All	-175 (-11.2%)	0 (0%)
MAY	W	-39 (-2.4%)	1 (0%)
	AN	-146 (-10.5%)	0 (0%)
	BN	-340 (-27.5%)	0 (-0.1%)
	D	-224 (-19.7%)	0 (0%)
	C	-88 (-12.3%)	0 (0.1%)
	All	-146 (-11.5%)	0 (0%)
JUN	W	154 (9.6%)	-2 (-0.1%)
	AN	-150 (-13.2%)	-1 (-0.1%)
	BN	-97 (-14.6%)	-2 (-0.4%)
	D	-82 (-18.4%)	0 (0%)
	C	-37 (-11.3%)	-1 (-0.4%)
	All	-20 (-2.1%)	-1 (-0.1%)
JUL	W	16 (1.6%)	0 (0%)
	AN	-35 (-7.2%)	0 (0%)
	BN	-25 (-5.5%)	0 (0%)
	D	-38 (-9.4%)	1 (0.3%)
	C	-25 (-7.3%)	2 (0.6%)
	All	-17 (-2.8%)	1 (0.1%)

Alternative 1A: Upstream—Stanislaus River at Confluence with San Joaquin River			
Month	WYT^b	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
AUG	W	-212 (-22.8%)	0 (0%)
	AN	-22 (-4.6%)	0 (0%)
	BN	-4 (-1%)	0 (0%)
	D	-5 (-1.2%)	0 (0%)
	C	-3 (-0.9%)	0 (0.1%)
	All	-68 (-12.2%)	0 (0%)
SEP	W	-177 (-17%)	0 (0%)
	AN	-28 (-5.6%)	0 (0%)
	BN	-10 (-2.4%)	0 (0%)
	D	-5 (-1.3%)	0 (0%)
	C	3 (0.8%)	10 (3.2%)
	All	-59 (-10%)	2 (0.4%)
OCT	W	-52 (-5.8%)	0 (0.1%)
	AN	-48 (-5.5%)	2 (0.3%)
	BN	-59 (-6.5%)	0 (0%)
	D	-59 (-6%)	0 (0%)
	C	-77 (-11.1%)	0 (0%)
	All	-58 (-6.7%)	1 (0.1%)
NOV	W	-18 (-4.3%)	0 (0%)
	AN	-56 (-9.7%)	0 (0%)
	BN	-8 (-2.3%)	0 (0%)
	D	-23 (-6.7%)	0 (0%)
	C	-16 (-4.9%)	0 (0.1%)
	All	-24 (-5.9%)	0 (0%)
DEC	W	-94 (-18.4%)	-11 (-2.6%)
	AN	-25 (-3.5%)	0 (0%)
	BN	23 (6.8%)	0 (0%)
	D	-23 (-7.3%)	0 (0%)
	C	-16 (-5.7%)	0 (0%)
	All	-36 (-8%)	-3 (-0.8%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.1.2 In Delta**

2 **11C.1.2.1 Sacramento River Downstream of North Delta Diversion Facility**

3 **Table 25. Mean Monthly Flows (cfs) for Model Scenarios for the Sacramento River Downstream of the**
 4 **North Delta Diversion Facility, Year-Round**

Alternative 1A: In Delta—Sacramento River Downstream of North Delta Diversion Facility				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	50,961	52,878	42,014
	AN	39,863	40,484	32,151
	BN	23,781	22,653	18,962
	D	17,444	17,451	16,372
	C	14,281	15,073	12,576
	All	31,971	32,595	26,698
FEB	W	57,314	59,847	48,632
	AN	45,676	47,786	37,562
	BN	31,934	31,592	24,113
	D	21,202	21,107	17,556
	C	14,708	14,291	13,618
	All	37,116	38,087	30,880
MAR	W	49,416	50,993	40,210
	AN	44,495	45,088	33,116
	BN	24,489	22,915	16,602
	D	20,656	20,650	16,014
	C	13,245	13,137	11,863
	All	32,834	33,134	25,682
APR	W	37,809	37,543	27,818
	AN	25,979	24,931	17,618
	BN	17,752	17,128	14,856
	D	12,990	12,904	12,911
	C	10,229	10,365	10,315
	All	23,169	22,826	18,279
MAY	W	31,948	24,500	17,764
	AN	21,021	18,657	14,932
	BN	14,227	12,394	12,411
	D	10,959	11,427	11,868
	C	7,749	8,011	7,660
	All	19,175	16,295	13,663
JUN	W	23,900	18,603	14,397
	AN	16,309	16,051	14,276
	BN	13,576	13,898	13,069
	D	12,222	12,656	11,844
	C	9,884	10,123	9,306
	All	16,412	14,880	12,847

Alternative 1A: In Delta—Sacramento River Downstream of North Delta Diversion Facility				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JUL	W	19,876	21,425	15,809
	AN	21,574	22,727	15,970
	BN	20,953	20,513	14,056
	D	19,272	18,957	12,278
	C	15,397	13,767	10,579
	All	19,520	19,797	13,993
AUG	W	15,816	16,064	9,210
	AN	15,877	17,491	11,175
	BN	15,643	16,232	9,744
	D	16,965	14,351	10,152
	C	10,095	8,996	8,047
	All	15,210	14,891	9,625
SEP	W	18,254	27,212	7,963
	AN	13,198	21,006	8,249
	BN	12,427	12,306	7,900
	D	12,155	8,620	8,330
	C	8,485	7,292	8,298
	All	13,751	16,763	8,123
OCT	W	13,505	13,277	13,281
	AN	11,118	11,864	13,607
	BN	11,557	12,124	14,504
	D	10,279	10,487	12,687
	C	10,073	9,964	13,918
	All	11,613	11,776	13,500
NOV	W	19,447	19,285	13,258
	AN	15,309	15,925	9,667
	BN	12,574	13,037	8,487
	D	12,868	11,914	8,551
	C	9,633	9,295	8,074
	All	14,788	14,647	10,126
DEC	W	39,708	37,022	31,205
	AN	21,663	22,629	21,404
	BN	16,678	16,692	15,751
	D	15,442	15,159	14,448
	C	11,816	10,632	11,195
	All	23,727	22,784	20,525

1 **Table 26. Differences^a (Percent Differences) between Pairs of Model Scenarios for the Sacramento**
 2 **River Downstream of the North Delta Diversion Facility, Year-Round**

Alternative 1A: In Delta—Sacramento River Downstream of North Delta Diversion Facility			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	-8,947 (-17.6%)	-10,864 (-20.5%)
	AN	-7,712 (-19.3%)	-8,333 (-20.6%)
	BN	-4,819 (-20.3%)	-3,691 (-16.3%)
	D	-1,072 (-6.1%)	-1,079 (-6.2%)
	C	-1,705 (-11.9%)	-2,497 (-16.6%)
	All	-5,273 (-16.5%)	-5,897 (-18.1%)
FEB	W	-8,682 (-15.1%)	-11,214 (-18.7%)
	AN	-8,114 (-17.8%)	-10,224 (-21.4%)
	BN	-7,820 (-24.5%)	-7,479 (-23.7%)
	D	-3,646 (-17.2%)	-3,551 (-16.8%)
	C	-1,090 (-7.4%)	-673 (-4.7%)
	All	-6,235 (-16.8%)	-7,207 (-18.9%)
MAR	W	-9,206 (-18.6%)	-10,783 (-21.1%)
	AN	-11,379 (-25.6%)	-11,972 (-26.6%)
	BN	-7,886 (-32.2%)	-6,312 (-27.5%)
	D	-4,642 (-22.5%)	-4,636 (-22.4%)
	C	-1,382 (-10.4%)	-1,274 (-9.7%)
	All	-7,152 (-21.8%)	-7,453 (-22.5%)
APR	W	-9,990 (-26.4%)	-9,725 (-25.9%)
	AN	-8,360 (-32.2%)	-7,313 (-29.3%)
	BN	-2,895 (-16.3%)	-2,272 (-13.3%)
	D	-79 (-0.6%)	7 (0.1%)
	C	86 (0.8%)	-50 (-0.5%)
	All	-4,890 (-21.1%)	-4,548 (-19.9%)
MAY	W	-14,184 (-44.4%)	-6,736 (-27.5%)
	AN	-6,089 (-29%)	-3,724 (-20%)
	BN	-1,816 (-12.8%)	16 (0.1%)
	D	909 (8.3%)	442 (3.9%)
	C	-89 (-1.1%)	-351 (-4.4%)
	All	-5,512 (-28.7%)	-2,632 (-16.2%)
JUN	W	-9,502 (-39.8%)	-4,206 (-22.6%)
	AN	-2,032 (-12.5%)	-1,775 (-11.1%)
	BN	-506 (-3.7%)	-828 (-6%)
	D	-379 (-3.1%)	-812 (-6.4%)
	C	-578 (-5.8%)	-816 (-8.1%)
	All	-3,564 (-21.7%)	-2,032 (-13.7%)
JUL	W	-4,067 (-20.5%)	-5,616 (-26.2%)
	AN	-5,603 (-26%)	-6,757 (-29.7%)
	BN	-6,897 (-32.9%)	-6,457 (-31.5%)
	D	-6,994 (-36.3%)	-6,679 (-35.2%)
	C	-4,818 (-31.3%)	-3,188 (-23.2%)
	All	-5,527 (-28.3%)	-5,804 (-29.3%)

Alternative 1A: In Delta—Sacramento River Downstream of North Delta Diversion Facility			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
AUG	W	-6,605 (-41.8%)	-6,853 (-42.7%)
	AN	-4,702 (-29.6%)	-6,316 (-36.1%)
	BN	-5,899 (-37.7%)	-6,488 (-40%)
	D	-6,813 (-40.2%)	-4,199 (-29.3%)
	C	-2,048 (-20.3%)	-950 (-10.6%)
	All	-5,585 (-36.7%)	-5,266 (-35.4%)
SEP	W	-10,291 (-56.4%)	-19,250 (-70.7%)
	AN	-4,950 (-37.5%)	-12,757 (-60.7%)
	BN	-4,527 (-36.4%)	-4,406 (-35.8%)
	D	-3,825 (-31.5%)	-291 (-3.4%)
	C	-187 (-2.2%)	1,005 (13.8%)
	All	-5,627 (-40.9%)	-8,639 (-51.5%)
OCT	W	-223 (-1.7%)	4 (0%)
	AN	2,489 (22.4%)	1,743 (14.7%)
	BN	2,947 (25.5%)	2,381 (19.6%)
	D	2,407 (23.4%)	2,200 (21%)
	C	3,845 (38.2%)	3,954 (39.7%)
	All	1,888 (16.3%)	1,724 (14.6%)
NOV	W	-6,189 (-31.8%)	-6,027 (-31.3%)
	AN	-5,641 (-36.8%)	-6,258 (-39.3%)
	BN	-4,087 (-32.5%)	-4,549 (-34.9%)
	D	-4,318 (-33.6%)	-3,363 (-28.2%)
	C	-1,559 (-16.2%)	-1,222 (-13.1%)
	All	-4,662 (-31.5%)	-4,521 (-30.9%)
DEC	W	-8,503 (-21.4%)	-5,817 (-15.7%)
	AN	-259 (-1.2%)	-1,225 (-5.4%)
	BN	-927 (-5.6%)	-941 (-5.6%)
	D	-994 (-6.4%)	-711 (-4.7%)
	C	-621 (-5.3%)	562 (5.3%)
	All	-3,201 (-13.5%)	-2,258 (-9.9%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.1.2.2 Sacramento River at Rio Vista**

2 **Table 27. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Rio Vista,**
 3 **Year-Round**

Alternative 1A: In Delta—Sacramento River at Rio Vista				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	71,111	78,551	72,415
	AN	41,963	42,919	37,439
	BN	20,943	19,991	18,693
	D	14,895	14,927	14,703
	C	11,853	12,601	10,822
	All	37,268	39,721	36,443
FEB	W	80,958	89,989	83,061
	AN	52,542	55,363	50,658
	BN	30,159	29,442	25,747
	D	19,320	19,422	17,247
	C	12,247	11,956	11,812
	All	44,541	47,675	43,660
MAR	W	63,763	68,663	61,586
	AN	46,750	48,513	41,050
	BN	20,980	19,562	15,626
	D	17,656	17,679	14,726
	C	10,710	10,684	9,981
	All	36,084	37,655	32,895
APR	W	38,214	38,422	32,024
	AN	22,726	21,855	16,986
	BN	14,652	14,207	12,777
	D	10,331	10,299	10,550
	C	7,665	7,816	7,883
	All	21,333	21,211	18,291
MAY	W	26,933	20,046	14,306
	AN	17,008	14,948	11,801
	BN	10,924	9,355	9,443
	D	8,135	8,564	9,032
	C	5,305	5,554	5,350
	All	15,456	12,833	10,641
JUN	W	16,557	11,418	8,002
	AN	9,887	9,220	7,583
	BN	7,001	7,241	6,703
	D	6,020	6,335	5,820
	C	4,333	4,513	4,020
	All	9,847	8,257	6,657
JUL	W	11,125	12,181	7,996
	AN	12,128	12,927	8,132
	BN	11,686	11,357	6,831
	D	10,523	10,307	5,916
	C	7,736	6,596	4,453
	All	10,739	10,921	6,842

Alternative 1A: In Delta—Sacramento River at Rio Vista				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
AUG	W	8,507	8,650	3,826
	AN	8,538	9,648	5,174
	BN	8,371	8,753	4,224
	D	9,264	7,417	4,505
	C	4,390	3,615	3,157
	All	8,052	7,806	4,142
SEP	W	10,767	21,199	3,165
	AN	6,788	12,832	3,359
	BN	6,283	6,197	3,158
	D	6,116	3,644	3,477
	C	3,588	2,996	3,630
	All	7,348	10,896	3,329
OCT	W	8,718	8,287	8,615
	AN	6,183	7,207	8,846
	BN	6,258	6,976	9,224
	D	5,312	5,727	7,496
	C	5,215	4,969	9,015
	All	6,667	6,858	8,566
NOV	W	15,829	15,879	10,636
	AN	11,333	12,156	6,298
	BN	8,184	9,071	4,870
	D	8,733	8,061	5,178
	C	5,473	5,565	4,346
	All	10,793	10,946	6,898
DEC	W	43,367	40,431	38,576
	AN	19,040	19,936	19,338
	BN	13,987	14,049	13,609
	D	11,999	11,687	11,385
	C	8,131	7,186	7,752
	All	22,749	21,753	21,019

1 **Table 28. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento**
 2 **River at Rio Vista, Year-Round**

Alternative 1A: In Delta—Sacramento River at Rio Vista			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	1,304 (1.8%)	-6,136 (-7.8%)
	AN	-4,524 (-10.8%)	-5,480 (-12.8%)
	BN	-2,250 (-10.7%)	-1,298 (-6.5%)
	D	-191 (-1.3%)	-224 (-1.5%)
	C	-1,031 (-8.7%)	-1,780 (-14.1%)
	All	-826 (-2.2%)	-3,279 (-8.3%)
FEB	W	2,103 (2.6%)	-6,928 (-7.7%)
	AN	-1,885 (-3.6%)	-4,705 (-8.5%)
	BN	-4,412 (-14.6%)	-3,696 (-12.6%)
	D	-2,072 (-10.7%)	-2,175 (-11.2%)
	C	-435 (-3.5%)	-143 (-1.2%)
	All	-881 (-2%)	-4,015 (-8.4%)
MAR	W	-2,178 (-3.4%)	-7,077 (-10.3%)
	AN	-5,700 (-12.2%)	-7,463 (-15.4%)
	BN	-5,354 (-25.5%)	-3,936 (-20.1%)
	D	-2,930 (-16.6%)	-2,953 (-16.7%)
	C	-729 (-6.8%)	-703 (-6.6%)
	All	-3,189 (-8.8%)	-4,759 (-12.6%)
APR	W	-6,189 (-16.2%)	-6,398 (-16.7%)
	AN	-5,740 (-25.3%)	-4,868 (-22.3%)
	BN	-1,876 (-12.8%)	-1,430 (-10.1%)
	D	219 (2.1%)	252 (2.4%)
	C	218 (2.8%)	67 (0.9%)
	All	-3,043 (-14.3%)	-2,920 (-13.8%)
MAY	W	-12,626 (-46.9%)	-5,739 (-28.6%)
	AN	-5,207 (-30.6%)	-3,147 (-21.1%)
	BN	-1,482 (-13.6%)	88 (0.9%)
	D	897 (11%)	468 (5.5%)
	C	45 (0.9%)	-204 (-3.7%)
	All	-4,815 (-31.2%)	-2,192 (-17.1%)
JUN	W	-8,555 (-51.7%)	-3,416 (-29.9%)
	AN	-2,304 (-23.3%)	-1,637 (-17.8%)
	BN	-298 (-4.3%)	-538 (-7.4%)
	D	-200 (-3.3%)	-516 (-8.1%)
	C	-312 (-7.2%)	-493 (-10.9%)
	All	-3,190 (-32.4%)	-1,600 (-19.4%)
JUL	W	-3,129 (-28.1%)	-4,185 (-34.4%)
	AN	-3,996 (-32.9%)	-4,795 (-37.1%)
	BN	-4,855 (-41.5%)	-4,526 (-39.8%)
	D	-4,608 (-43.8%)	-4,391 (-42.6%)
	C	-3,283 (-42.4%)	-2,143 (-32.5%)
	All	-3,897 (-36.3%)	-4,079 (-37.4%)

Alternative 1A: In Delta—Sacramento River at Rio Vista			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1T	NAA vs. A1A_LL1T
AUG	W	-4,681 (-55%)	-4,824 (-55.8%)
	AN	-3,364 (-39.4%)	-4,474 (-46.4%)
	BN	-4,147 (-49.5%)	-4,529 (-51.7%)
	D	-4,759 (-51.4%)	-2,912 (-39.3%)
	C	-1,233 (-28.1%)	-458 (-12.7%)
	All	-3,910 (-48.6%)	-3,664 (-46.9%)
SEP	W	-7,602 (-70.6%)	-18,034 (-85.1%)
	AN	-3,429 (-50.5%)	-9,473 (-73.8%)
	BN	-3,125 (-49.7%)	-3,039 (-49%)
	D	-2,639 (-43.2%)	-167 (-4.6%)
	C	41 (1.2%)	634 (21.1%)
	All	-4,019 (-54.7%)	-7,567 (-69.5%)
OCT	W	-102 (-1.2%)	328 (4%)
	AN	2,663 (43.1%)	1,639 (22.7%)
	BN	2,965 (47.4%)	2,248 (32.2%)
	D	2,184 (41.1%)	1,769 (30.9%)
	C	3,800 (72.9%)	4,046 (81.4%)
	All	1,899 (28.5%)	1,708 (24.9%)
NOV	W	-5,193 (-32.8%)	-5,243 (-33%)
	AN	-5,035 (-44.4%)	-5,858 (-48.2%)
	BN	-3,314 (-40.5%)	-4,200 (-46.3%)
	D	-3,555 (-40.7%)	-2,883 (-35.8%)
	C	-1,128 (-20.6%)	-1,219 (-21.9%)
	All	-3,894 (-36.1%)	-4,048 (-37%)
DEC	W	-4,791 (-11%)	-1,855 (-4.6%)
	AN	297 (1.6%)	-598 (-3%)
	BN	-378 (-2.7%)	-440 (-3.1%)
	D	-614 (-5.1%)	-302 (-2.6%)
	C	-380 (-4.7%)	566 (7.9%)
	All	-1,730 (-7.6%)	-734 (-3.4%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.1.2.3 OMR Flow (Old and Middle Rivers)**

2 **Table 29. Mean Monthly Flows (cfs) for Model Scenarios in the Old and Middle Rivers, Year-Round**

Alternative 1A: In Delta—OMR Flow (Old and Middle Rivers)				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	-1,820	-1,606	4,510
	AN	-3,553	-3,446	-115
	BN	-4,240	-3,803	-2,695
	D	-4,664	-4,675	-3,362
	C	-4,130	-3,684	-1,556
	All	-3,449	-3,228	-13
FEB	W	-2,365	-2,293	6,082
	AN	-3,274	-3,147	1,971
	BN	-3,437	-3,290	2
	D	-3,986	-3,502	-3,217
	C	-3,191	-3,047	-3,158
	All	-3,158	-2,964	1,049
MAR	W	-1,600	-1,454	6,776
	AN	-4,251	-3,815	2,649
	BN	-4,147	-3,834	-454
	D	-2,852	-2,614	-1,843
	C	-2,010	-1,636	-1,433
	All	-2,758	-2,487	1,844
APR	W	2,431	2,415	3,673
	AN	1,058	787	579
	BN	677	214	-1,777
	D	-268	-615	-1,832
	C	-950	-845	-1,124
	All	843	659	379
MAY	W	1,651	1,555	3,149
	AN	509	396	-625
	BN	272	-237	-1,583
	D	-647	-1,010	-1,296
	C	-1,019	-911	-730
	All	353	155	246
JUN	W	-4,164	-4,369	-540
	AN	-4,761	-4,454	-2,990
	BN	-4,154	-3,420	-2,008
	D	-3,301	-2,592	-1,840
	C	-2,250	-2,143	-1,706
	All	-3,780	-3,504	-1,605
JUL	W	-8,959	-8,699	-5,531
	AN	-9,919	-7,962	-4,806
	BN	-10,853	-9,942	-5,238
	D	-10,891	-9,505	-4,365
	C	-8,058	-5,234	-2,661
	All	-9,715	-8,473	-4,699

Alternative 1A: In Delta—OMR Flow (Old and Middle Rivers)				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
AUG	W	-10,062	-10,518	-4,342
	AN	-10,348	-10,985	-5,549
	BN	-10,044	-9,374	-4,328
	D	-10,122	-7,259	-4,205
	C	-4,384	-3,192	-2,801
	All	-9,283	-8,604	-4,261
SEP	W	-9,317	-7,580	-4,507
	AN	-9,163	-9,002	-5,149
	BN	-8,575	-8,392	-4,606
	D	-8,081	-5,165	-4,082
	C	-4,807	-3,966	-2,384
	All	-8,236	-6,868	-4,214
OCT	W	-8,347	-5,049	-5,048
	AN	-7,643	-3,648	-4,681
	BN	-7,804	-4,793	-4,899
	D	-6,961	-4,103	-4,963
	C	-6,440	-3,920	-4,393
	All	-7,568	-4,427	-4,854
NOV	W	-8,902	-6,527	-4,575
	AN	-7,264	-6,003	-4,678
	BN	-7,997	-5,542	-5,311
	D	-7,136	-5,007	-4,352
	C	-5,293	-4,389	-3,808
	All	-7,592	-5,636	-4,555
DEC	W	-5,542	-5,591	-2,570
	AN	-6,987	-7,050	-5,652
	BN	-7,304	-7,040	-6,209
	D	-7,214	-7,006	-6,878
	C	-6,166	-4,173	-5,701
	All	-6,513	-6,155	-5,046

1 **Table 30. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Old and Middle**
 2 **Rivers, Year-Round**

Alternative 1A: In Delta—OMR Flow (Old and Middle Rivers)			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	6,330 (347.8%)	6,116 (380.9%)
	AN	3,438 (96.8%)	3,332 (96.7%)
	BN	1,545 (36.4%)	1,107 (29.1%)
	D	1,302 (27.9%)	1,314 (28.1%)
	C	2,574 (62.3%)	2,128 (57.8%)
	All	3,436 (99.6%)	3,216 (99.6%)
FEB	W	8,447 (357.2%)	8,375 (365.3%)
	AN	5,246 (160.2%)	5,118 (162.7%)
	BN	3,439 (100.1%)	3,292 (100.1%)
	D	768 (19.3%)	285 (8.1%)
	C	33 (1%)	-111 (-3.6%)
	All	4,207 (133.2%)	4,013 (135.4%)
MAR	W	8,376 (523.5%)	8,230 (566.2%)
	AN	6,900 (162.3%)	6,463 (169.4%)
	BN	3,693 (89.1%)	3,380 (88.2%)
	D	1,009 (35.4%)	770 (29.5%)
	C	578 (28.7%)	204 (12.4%)
	All	4,602 (166.9%)	4,331 (174.2%)
APR	W	1,241 (51%)	1,257 (52.1%)
	AN	-479 (-45.3%)	-208 (-26.5%)
	BN	-2,454 (-362.6%)	-1,991 (-930.7%)
	D	-1,564 (-583.8%)	-1,217 (-197.8%)
	C	-174 (-18.3%)	-279 (-33%)
	All	-464 (-55.1%)	-280 (-42.5%)
MAY	W	1,498 (90.8%)	1,594 (102.5%)
	AN	-1,134 (-222.6%)	-1,020 (-257.8%)
	BN	-1,855 (-682.3%)	-1,345 (-566.6%)
	D	-649 (-100.4%)	-286 (-28.3%)
	C	289 (28.4%)	181 (19.9%)
	All	-108 (-30.5%)	90 (58%)
JUN	W	3,624 (87%)	3,830 (87.6%)
	AN	1,771 (37.2%)	1,464 (32.9%)
	BN	2,146 (51.7%)	1,412 (41.3%)
	D	1,460 (44.2%)	752 (29%)
	C	544 (24.2%)	436 (20.4%)
	All	2,175 (57.5%)	1,898 (54.2%)
JUL	W	3,428 (38.3%)	3,169 (36.4%)
	AN	5,113 (51.5%)	3,156 (39.6%)
	BN	5,615 (51.7%)	4,705 (47.3%)
	D	6,526 (59.9%)	5,140 (54.1%)
	C	5,397 (67%)	2,573 (49.2%)
	All	5,016 (51.6%)	3,775 (44.5%)

Alternative 1A: In Delta—OMR Flow (Old and Middle Rivers)			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	5,721 (56.9%)	6,177 (58.7%)
	AN	4,799 (46.4%)	5,435 (49.5%)
	BN	5,716 (56.9%)	5,046 (53.8%)
	D	5,917 (58.5%)	3,054 (42.1%)
	C	1,583 (36.1%)	391 (12.2%)
	All	5,023 (54.1%)	4,343 (50.5%)
SEP	W	4,810 (51.6%)	3,073 (40.5%)
	AN	4,014 (43.8%)	3,853 (42.8%)
	BN	3,970 (46.3%)	3,786 (45.1%)
	D	3,999 (49.5%)	1,083 (21%)
	C	2,422 (50.4%)	1,581 (39.9%)
	All	4,023 (48.8%)	2,654 (38.6%)
OCT	W	3,299 (39.5%)	1 (0%)
	AN	2,962 (38.8%)	-1,032 (-28.3%)
	BN	2,906 (37.2%)	-106 (-2.2%)
	D	1,998 (28.7%)	-859 (-20.9%)
	C	2,047 (31.8%)	-473 (-12.1%)
	All	2,714 (35.9%)	-427 (-9.6%)
NOV	W	4,327 (48.6%)	1,952 (29.9%)
	AN	2,586 (35.6%)	1,326 (22.1%)
	BN	2,686 (33.6%)	231 (4.2%)
	D	2,784 (39%)	655 (13.1%)
	C	1,485 (28.1%)	581 (13.2%)
	All	3,038 (40%)	1,081 (19.2%)
DEC	W	2,972 (53.6%)	3,021 (54%)
	AN	1,335 (19.1%)	1,398 (19.8%)
	BN	1,095 (15%)	831 (11.8%)
	D	336 (4.7%)	128 (1.8%)
	C	466 (7.5%)	-1,527 (-36.6%)
	All	1,466 (22.5%)	1,109 (18%)

^a Red boxes indicate that flows under the alternative are greater than 5% less positive than flows under the baseline; green boxes indicate that flows under the alternative are greater than 5% more positive than flows under the baseline.

1 **11C.1.2.4 Delta Outflow**

2 **Table 31. Mean Monthly Flows (cfs) for Model Scenarios at the Delta Outflow, Year-Round**

Alternative 1A: In Delta—Delta Outflow				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	85,900	94,620	93,735
	AN	49,448	51,100	48,196
	BN	22,968	22,301	21,763
	D	14,736	14,732	15,816
	C	11,343	12,651	12,882
	All	43,289	46,372	45,847
FEB	W	96,835	107,085	107,800
	AN	62,321	65,873	65,435
	BN	36,766	36,084	35,010
	D	20,915	21,461	19,127
	C	12,991	12,798	12,373
	All	52,594	56,338	55,743
MAR	W	78,956	84,471	84,947
	AN	54,171	56,737	54,848
	BN	24,029	22,467	21,443
	D	19,880	19,985	17,264
	C	11,911	12,215	11,551
	All	43,172	45,097	44,102
APR	W	54,394	54,562	48,246
	AN	31,975	30,576	24,457
	BN	21,928	20,641	16,714
	D	14,142	13,413	12,324
	C	9,053	9,294	9,012
	All	30,099	29,603	25,754
MAY	W	41,040	32,880	27,984
	AN	24,200	21,709	16,919
	BN	16,299	13,596	12,204
	D	10,487	10,375	10,508
	C	6,000	6,286	6,196
	All	22,517	19,121	16,646
JUN	W	23,451	15,640	15,739
	AN	11,801	10,676	10,625
	BN	8,004	8,943	9,688
	D	6,636	7,689	7,844
	C	5,322	5,632	5,365
	All	12,765	10,560	10,706
JUL	W	11,441	11,407	9,186
	AN	9,430	12,225	8,891
	BN	7,151	7,668	6,388
	D	5,024	6,448	5,397
	C	4,238	5,832	5,344
	All	7,951	8,984	7,271

Alternative 1A: In Delta—Delta Outflow				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
AUG	W	5,341	4,308	4,000
	AN	4,000	4,713	4,175
	BN	4,000	5,129	4,088
	D	4,829	5,348	4,470
	C	4,077	4,433	3,919
	All	4,618	4,754	4,132
SEP	W	9,569	20,078	4,185
	AN	3,672	11,581	3,077
	BN	3,445	3,428	3,190
	D	3,350	3,021	3,979
	C	3,000	3,036	5,689
	All	5,334	9,754	4,028
OCT	W	6,487	9,520	9,685
	AN	4,021	8,982	9,717
	BN	4,477	8,054	10,487
	D	4,157	7,294	8,757
	C	4,158	6,607	10,195
	All	4,931	8,276	9,698
NOV	W	14,232	15,987	12,336
	AN	9,683	11,529	6,760
	BN	5,864	8,681	4,493
	D	6,943	8,052	5,494
	C	5,045	5,725	5,163
	All	9,193	10,844	7,629
DEC	W	48,185	45,191	45,940
	AN	18,014	19,119	20,042
	BN	11,950	12,231	12,524
	D	8,884	8,828	8,634
	C	5,531	6,560	5,562
	All	22,714	22,113	22,347

1 **Table 32. Differences^a (Percent Differences) between Pairs of Model Scenarios at the Delta Outflow,**
 2 **Year-Round**

Alternative 1A: In Delta—Delta Outflow			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	7,835 (9.1%)	-885 (-0.9%)
	AN	-1,251 (-2.5%)	-2,904 (-5.7%)
	BN	-1,205 (-5.2%)	-538 (-2.4%)
	D	1,081 (7.3%)	1,084 (7.4%)
	C	1,540 (13.6%)	232 (1.8%)
	All	2,558 (5.9%)	-525 (-1.1%)
FEB	W	10,964 (11.3%)	714 (0.7%)
	AN	3,113 (5%)	-438 (-0.7%)
	BN	-1,756 (-4.8%)	-1,074 (-3%)
	D	-1,788 (-8.5%)	-2,334 (-10.9%)
	C	-618 (-4.8%)	-425 (-3.3%)
	All	3,149 (6%)	-596 (-1.1%)
MAR	W	5,992 (7.6%)	476 (0.6%)
	AN	677 (1.2%)	-1,890 (-3.3%)
	BN	-2,586 (-10.8%)	-1,024 (-4.6%)
	D	-2,617 (-13.2%)	-2,722 (-13.6%)
	C	-360 (-3%)	-664 (-5.4%)
	All	930 (2.2%)	-995 (-2.2%)
APR	W	-6,148 (-11.3%)	-6,316 (-11.6%)
	AN	-7,519 (-23.5%)	-6,119 (-20%)
	BN	-5,214 (-23.8%)	-3,927 (-19%)
	D	-1,818 (-12.9%)	-1,090 (-8.1%)
	C	-41 (-0.5%)	-282 (-3%)
	All	-4,345 (-14.4%)	-3,849 (-13%)
MAY	W	-13,056 (-31.8%)	-4,897 (-14.9%)
	AN	-7,280 (-30.1%)	-4,790 (-22.1%)
	BN	-4,095 (-25.1%)	-1,392 (-10.2%)
	D	21 (0.2%)	133 (1.3%)
	C	196 (3.3%)	-90 (-1.4%)
	All	-5,871 (-26.1%)	-2,475 (-12.9%)
JUN	W	-7,711 (-32.9%)	100 (0.6%)
	AN	-1,176 (-10%)	-51 (-0.5%)
	BN	1,684 (21%)	745 (8.3%)
	D	1,209 (18.2%)	155 (2%)
	C	43 (0.8%)	-267 (-4.7%)
	All	-2,058 (-16.1%)	146 (1.4%)
JUL	W	-2,255 (-19.7%)	-2,221 (-19.5%)
	AN	-540 (-5.7%)	-3,334 (-27.3%)
	BN	-763 (-10.7%)	-1,280 (-16.7%)
	D	374 (7.4%)	-1,051 (-16.3%)
	C	1,107 (26.1%)	-488 (-8.4%)
	All	-680 (-8.6%)	-1,713 (-19.1%)

Alternative 1A: In Delta—Delta Outflow			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
AUG	W	-1,341 (-25.1%)	-308 (-7.2%)
	AN	175 (4.4%)	-538 (-11.4%)
	BN	88 (2.2%)	-1,041 (-20.3%)
	D	-358 (-7.4%)	-877 (-16.4%)
	C	-158 (-3.9%)	-514 (-11.6%)
	All	-486 (-10.5%)	-622 (-13.1%)
SEP	W	-5,384 (-56.3%)	-15,893 (-79.2%)
	AN	-595 (-16.2%)	-8,504 (-73.4%)
	BN	-256 (-7.4%)	-238 (-6.9%)
	D	628 (18.8%)	957 (31.7%)
	C	2,689 (89.6%)	2,653 (87.4%)
	All	-1,306 (-24.5%)	-5,726 (-58.7%)
OCT	W	3,199 (49.3%)	165 (1.7%)
	AN	5,696 (141.7%)	735 (8.2%)
	BN	6,010 (134.3%)	2,433 (30.2%)
	D	4,600 (110.6%)	1,463 (20.1%)
	C	6,037 (145.2%)	3,588 (54.3%)
	All	4,767 (96.7%)	1,422 (17.2%)
NOV	W	-1,897 (-13.3%)	-3,652 (-22.8%)
	AN	-2,923 (-30.2%)	-4,768 (-41.4%)
	BN	-1,371 (-23.4%)	-4,188 (-48.2%)
	D	-1,449 (-20.9%)	-2,558 (-31.8%)
	C	118 (2.3%)	-562 (-9.8%)
	All	-1,564 (-17%)	-3,215 (-29.6%)
DEC	W	-2,245 (-4.7%)	749 (1.7%)
	AN	2,027 (11.3%)	923 (4.8%)
	BN	574 (4.8%)	293 (2.4%)
	D	-250 (-2.8%)	-194 (-2.2%)
	C	31 (0.6%)	-998 (-15.2%)
	All	-367 (-1.6%)	234 (1.1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.1.2.5 San Joaquin River at Vernalis**

2 **Table 33. Mean Monthly Flows (cfs) for Model Scenarios in the San Joaquin River at Vernalis,**
 3 **Year-Round**

Alternative 1A: In Delta—San Joaquin River at Vernalis				
Month	WYT^a	EXISTING CONDITIONS	NAA	A1A_LL T
JAN	W	9,004	9,003	9,811
	AN	5,370	5,370	6,011
	BN	2,252	2,252	2,255
	D	2,214	2,215	2,236
	C	1,607	1,607	1,592
	All	4,705	4,705	5,067
FEB	W	12,605	12,599	13,196
	AN	6,837	6,837	6,680
	BN	2,885	2,886	2,849
	D	2,447	2,447	2,246
	C	1,953	1,954	1,943
	All	6,250	6,248	6,352
MAR	W	14,262	14,263	15,234
	AN	6,180	6,181	6,365
	BN	2,751	2,752	2,476
	D	2,361	2,362	2,146
	C	1,689	1,690	1,688
	All	6,520	6,521	6,763
APR	W	11,895	11,896	12,458
	AN	5,980	5,981	6,044
	BN	4,445	4,447	3,924
	D	3,624	3,626	3,113
	C	1,932	1,934	1,797
	All	6,305	6,306	6,292
MAY	W	12,064	12,064	12,636
	AN	5,380	5,384	5,094
	BN	4,024	4,031	3,662
	D	3,265	3,272	2,825
	C	1,896	1,899	1,799
	All	6,106	6,110	6,072
JUN	W	11,046	11,048	6,822
	AN	2,928	2,933	2,682
	BN	2,007	2,016	1,876
	D	1,470	1,478	1,295
	C	980	983	956
	All	4,547	4,552	3,209
JUL	W	7,730	7,733	4,350
	AN	1,927	1,938	1,808
	BN	1,436	1,452	1,392
	D	1,205	1,219	1,107
	C	883	887	860
	All	3,229	3,238	2,190

Alternative 1A: In Delta—San Joaquin River at Vernalis				
Month	WYT^a	EXISTING CONDITIONS	NAA	A1A_LLT
AUG	W	3,522	3,525	2,648
	AN	1,989	1,997	1,704
	BN	1,426	1,438	1,383
	D	1,339	1,348	1,230
	C	1,018	1,021	988
	All	2,056	2,062	1,715
SEP	W	3,475	3,476	3,129
	AN	2,338	2,342	2,167
	BN	1,804	1,810	1,752
	D	1,770	1,774	1,645
	C	1,407	1,408	1,379
	All	2,314	2,317	2,146
OCT	W	2,748	2,750	2,744
	AN	2,720	2,720	2,596
	BN	2,481	2,482	2,349
	D	2,942	2,944	2,792
	C	2,190	2,191	2,032
	All	2,622	2,623	2,521
NOV	W	2,495	2,495	2,418
	AN	3,151	3,151	3,208
	BN	2,120	2,120	1,997
	D	2,244	2,245	2,253
	C	1,944	1,944	1,898
	All	2,416	2,417	2,378
DEC	W	4,351	4,350	4,556
	AN	4,604	4,604	4,593
	BN	2,151	2,151	2,060
	D	2,100	2,101	2,163
	C	1,704	1,704	1,694
	All	3,178	3,178	3,230

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 34. Differences^a (Percent Differences) between Pairs of Model Scenarios in the San Joaquin**
 2 **River at Vernalis, Year-Round**

Alternative 1A: In Delta—San Joaquin River at Vernalis			
Month	WYT ^b	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
JAN	W	807 (9%)	808 (9%)
	AN	641 (11.9%)	641 (11.9%)
	BN	3 (0.1%)	3 (0.1%)
	D	22 (1%)	21 (1%)
	C	-15 (-0.9%)	-15 (-0.9%)
	All	362 (7.7%)	362 (7.7%)
FEB	W	591 (4.7%)	596 (4.7%)
	AN	-157 (-2.3%)	-157 (-2.3%)
	BN	-36 (-1.3%)	-37 (-1.3%)
	D	-201 (-8.2%)	-202 (-8.2%)
	C	-11 (-0.6%)	-11 (-0.6%)
	All	103 (1.6%)	104 (1.7%)
MAR	W	972 (6.8%)	972 (6.8%)
	AN	185 (3%)	184 (3%)
	BN	-275 (-10%)	-276 (-10%)
	D	-215 (-9.1%)	-215 (-9.1%)
	C	-2 (-0.1%)	-2 (-0.1%)
	All	243 (3.7%)	242 (3.7%)
APR	W	563 (4.7%)	562 (4.7%)
	AN	64 (1.1%)	63 (1%)
	BN	-522 (-11.7%)	-523 (-11.8%)
	D	-511 (-14.1%)	-513 (-14.2%)
	C	-136 (-7%)	-137 (-7.1%)
	All	-13 (-0.2%)	-14 (-0.2%)
MAY	W	571 (4.7%)	572 (4.7%)
	AN	-287 (-5.3%)	-291 (-5.4%)
	BN	-363 (-9%)	-369 (-9.2%)
	D	-440 (-13.5%)	-447 (-13.7%)
	C	-97 (-5.1%)	-100 (-5.3%)
	All	-35 (-0.6%)	-38 (-0.6%)
JUN	W	-4,224 (-38.2%)	-4,226 (-38.3%)
	AN	-246 (-8.4%)	-252 (-8.6%)
	BN	-131 (-6.5%)	-140 (-7%)
	D	-175 (-11.9%)	-183 (-12.4%)
	C	-23 (-2.4%)	-27 (-2.7%)
	All	-1,337 (-29.4%)	-1,342 (-29.5%)
JUL	W	-3,380 (-43.7%)	-3,383 (-43.7%)
	AN	-119 (-6.2%)	-130 (-6.7%)
	BN	-44 (-3.1%)	-60 (-4.2%)
	D	-98 (-8.2%)	-112 (-9.2%)
	C	-23 (-2.6%)	-27 (-3%)
	All	-1,039 (-32.2%)	-1,048 (-32.4%)

Alternative 1A: In Delta—San Joaquin River at Vernalis			
Month	WYT^b	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
AUG	W	-874 (-24.8%)	-877 (-24.9%)
	AN	-285 (-14.3%)	-293 (-14.7%)
	BN	-43 (-3%)	-55 (-3.8%)
	D	-109 (-8.1%)	-118 (-8.8%)
	C	-30 (-3%)	-33 (-3.3%)
	All	-342 (-16.6%)	-348 (-16.9%)
SEP	W	-346 (-10%)	-347 (-10%)
	AN	-171 (-7.3%)	-175 (-7.5%)
	BN	-52 (-2.9%)	-58 (-3.2%)
	D	-125 (-7.1%)	-129 (-7.3%)
	C	-28 (-2%)	-29 (-2.1%)
	All	-168 (-7.3%)	-171 (-7.4%)
OCT	W	-5 (-0.2%)	-6 (-0.2%)
	AN	-124 (-4.6%)	-125 (-4.6%)
	BN	-132 (-5.3%)	-133 (-5.4%)
	D	-150 (-5.1%)	-152 (-5.2%)
	C	-158 (-7.2%)	-159 (-7.3%)
	All	-101 (-3.9%)	-102 (-3.9%)
NOV	W	-77 (-3.1%)	-77 (-3.1%)
	AN	57 (1.8%)	57 (1.8%)
	BN	-123 (-5.8%)	-124 (-5.8%)
	D	8 (0.4%)	8 (0.3%)
	C	-46 (-2.4%)	-46 (-2.4%)
	All	-39 (-1.6%)	-39 (-1.6%)
DEC	W	205 (4.7%)	206 (4.7%)
	AN	-11 (-0.2%)	-11 (-0.2%)
	BN	-90 (-4.2%)	-91 (-4.2%)
	D	63 (3%)	62 (3%)
	C	-10 (-0.6%)	-10 (-0.6%)
	All	52 (1.6%)	52 (1.6%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.1.2.6 Mokelumne River at the Delta**

2 **Table 35. Mean Monthly Flows (cfs) for Model Scenarios in the Mokelumne River at the Delta,**
 3 **Year-Round**

Alternative 1A: In Delta—Mokelumne River at the Delta				
Month	WYT^a	EXISTING CONDITIONS	NAA	A1A_LL T
JAN	W	3,098	3,098	3,634
	AN	1,691	1,691	1,876
	BN	598	598	617
	D	497	497	493
	C	301	301	281
	All	1,469	1,469	1,660
FEB	W	3,280	3,280	3,781
	AN	2,648	2,648	2,913
	BN	994	994	1,035
	D	697	697	678
	C	447	447	442
	All	1,832	1,832	2,033
MAR	W	3,204	3,204	3,336
	AN	1,651	1,651	1,639
	BN	1,175	1,175	1,140
	D	754	754	691
	C	613	613	580
	All	1,685	1,685	1,700
APR	W	2,803	2,803	2,694
	AN	1,628	1,628	1,424
	BN	1,251	1,251	1,068
	D	627	627	550
	C	350	350	311
	All	1,504	1,504	1,384
MAY	W	3,137	3,137	2,885
	AN	1,401	1,401	1,179
	BN	959	959	812
	D	406	406	333
	C	196	196	170
	All	1,446	1,446	1,289
JUN	W	1,731	1,731	1,415
	AN	827	827	631
	BN	458	458	366
	D	93	93	76
	C	52	52	44
	All	766	766	616
JUL	W	748	313	469
	AN	313	114	167
	BN	114	7	70
	D	7	3	6
	C	3	300	3
	All	300	680	183

Alternative 1A: In Delta—Mokelumne River at the Delta				
Month	WYT^a	EXISTING CONDITIONS	NAA	A1A_LL T
AUG	W	680	295	346
	AN	295	103	216
	BN	103	4	71
	D	4	2	4
	C	2	274	2
	All	274	313	156
SEP	W	679	679	497
	AN	299	299	259
	BN	105	105	91
	D	9	9	9
	C	5	5	5
	All	276	276	213
OCT	W	158	158	147
	AN	183	183	180
	BN	157	157	144
	D	184	184	160
	C	136	136	123
	All	163	163	150
NOV	W	482	482	431
	AN	918	918	855
	BN	347	347	301
	D	379	379	327
	C	214	214	186
	All	477	477	429
DEC	W	1,539	1,539	1,732
	AN	1,412	1,412	1,628
	BN	449	449	472
	D	385	385	374
	C	224	224	209
	All	902	902	999

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 36. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Mokelumne**
 2 **River at the Delta, Year-Round**

Alternative 1A: In Delta—Mokelumne River at the Delta			
Month	WYT ^b	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	536 (17.3%)	536 (17.3%)
	AN	185 (10.9%)	185 (10.9%)
	BN	19 (3.3%)	19 (3.3%)
	D	-5 (-0.9%)	-5 (-0.9%)
	C	-20 (-6.6%)	-20 (-6.6%)
	All	192 (13%)	192 (13%)
FEB	W	501 (15.3%)	501 (15.3%)
	AN	265 (10%)	265 (10%)
	BN	40 (4%)	40 (4%)
	D	-19 (-2.7%)	-19 (-2.7%)
	C	-6 (-1.2%)	-6 (-1.2%)
	All	201 (10.9%)	201 (10.9%)
MAR	W	133 (4.1%)	133 (4.1%)
	AN	-12 (-0.7%)	-12 (-0.7%)
	BN	-34 (-2.9%)	-34 (-2.9%)
	D	-63 (-8.3%)	-63 (-8.3%)
	C	-33 (-5.4%)	-33 (-5.4%)
	All	15 (0.9%)	15 (0.9%)
APR	W	-109 (-3.9%)	-109 (-3.9%)
	AN	-203 (-12.5%)	-203 (-12.5%)
	BN	-183 (-14.6%)	-183 (-14.6%)
	D	-77 (-12.3%)	-77 (-12.3%)
	C	-39 (-11.1%)	-39 (-11.1%)
	All	-120 (-8%)	-120 (-8%)
MAY	W	-252 (-8%)	-252 (-8%)
	AN	-223 (-15.9%)	-223 (-15.9%)
	BN	-147 (-15.3%)	-147 (-15.3%)
	D	-72 (-17.8%)	-72 (-17.8%)
	C	-27 (-13.7%)	-27 (-13.7%)
	All	-157 (-10.9%)	-157 (-10.9%)
JUN	W	-316 (-18.3%)	-316 (-18.3%)
	AN	-196 (-23.7%)	-196 (-23.7%)
	BN	-92 (-20.1%)	-92 (-20.1%)
	D	-17 (-18.8%)	-17 (-18.8%)
	C	-8 (-14.7%)	-8 (-14.7%)
	All	-150 (-19.5%)	-150 (-19.5%)
JUL	W	-280 (-37.4%)	-280 (-37.4%)
	AN	-146 (-46.6%)	-146 (-46.6%)
	BN	-44 (-38.9%)	-44 (-38.9%)
	D	0 (-3.1%)	0 (-3.1%)
	C	0 (-4.4%)	0 (-4.4%)
	All	-117 (-39.1%)	-117 (-39.1%)

Alternative 1A: In Delta—Mokelumne River at the Delta			
Month	WYT^b	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	-334 (-49.1%)	-334 (-49.1%)
	AN	-79 (-26.8%)	-79 (-26.8%)
	BN	-32 (-30.8%)	-32 (-30.8%)
	D	0 (-0.5%)	0 (-0.5%)
	C	0 (-3.1%)	0 (-3.1%)
	All	-118 (-43.2%)	-118 (-43.2%)
SEP	W	-182 (-26.8%)	-182 (-26.8%)
	AN	-40 (-13.5%)	-40 (-13.5%)
	BN	-14 (-13.6%)	-14 (-13.6%)
	D	-1 (-5.9%)	-1 (-5.9%)
	C	0 (-8.1%)	0 (-8.1%)
	All	-64 (-23%)	-64 (-23%)
OCT	W	-12 (-7.3%)	-12 (-7.3%)
	AN	-4 (-2%)	-4 (-2%)
	BN	-13 (-8.5%)	-13 (-8.5%)
	D	-24 (-13.2%)	-24 (-13.2%)
	C	-13 (-9.8%)	-13 (-9.8%)
	All	-13 (-7.8%)	-13 (-7.8%)
NOV	W	-51 (-10.6%)	-51 (-10.6%)
	AN	-63 (-6.9%)	-63 (-6.9%)
	BN	-46 (-13.3%)	-46 (-13.3%)
	D	-52 (-13.7%)	-52 (-13.7%)
	C	-28 (-12.9%)	-28 (-12.9%)
	All	-48 (-10.1%)	-48 (-10.1%)
DEC	W	193 (12.5%)	193 (12.5%)
	AN	215 (15.3%)	215 (15.3%)
	BN	23 (5.1%)	23 (5.1%)
	D	-11 (-2.9%)	-11 (-2.9%)
	C	-15 (-6.6%)	-15 (-6.6%)
	All	97 (10.8%)	97 (10.8%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.2 Alternative 2A**

2 **11C.2.1 Upstream**

3 **11C.2.1.1 Sacramento River at Keswick**

4 **Table 1. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Keswick,**
 5 **Year-Round**

Alternative 2A: Upstream—Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	16,526	18,233	18,565
	AN	8,318	8,205	7,772
	BN	4,502	4,184	4,315
	D	3,996	4,096	3,745
	C	3,490	4,238	4,073
	All	8,614	9,215	9,179
FEB	W	18,577	20,853	20,779
	AN	14,409	15,297	15,609
	BN	5,981	5,544	6,318
	D	3,684	3,410	3,408
	C	3,599	3,372	3,364
	All	10,355	11,039	11,192
MAR	W	16,200	17,065	17,152
	AN	9,131	8,818	8,935
	BN	5,200	4,318	4,246
	D	3,903	3,814	3,858
	C	3,487	3,583	3,835
	All	8,728	8,800	8,879
APR	W	9,418	9,131	9,042
	AN	6,182	5,536	5,779
	BN	5,426	5,009	5,375
	D	5,803	5,533	5,756
	C	6,472	6,550	6,493
	All	7,038	6,733	6,844
MAY	W	9,508	7,149	7,752
	AN	7,709	7,783	9,049
	BN	7,193	6,272	7,180
	D	7,349	7,681	8,756
	C	6,715	7,316	7,496
	All	7,967	7,233	8,027
JUN	W	10,375	10,274	11,585
	AN	11,147	12,032	13,776
	BN	10,758	10,947	11,636
	D	11,224	11,898	12,402
	C	10,392	11,350	11,580
	All	10,742	11,160	12,093

Alternative 2A: Upstream—Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JUL	W	12,779	14,098	14,048
	AN	14,056	15,098	14,688
	BN	12,965	13,177	12,911
	D	13,302	13,727	12,833
	C	12,849	11,935	11,087
	All	13,123	13,689	13,248
AUG	W	11,029	10,491	10,275
	AN	10,449	11,641	10,874
	BN	10,139	10,261	9,839
	D	10,627	10,986	9,368
	C	9,473	7,348	6,896
	All	10,476	10,269	9,595
SEP	W	9,385	12,833	13,114
	AN	5,862	9,898	9,331
	BN	5,492	5,601	4,723
	D	5,985	4,469	4,874
	C	5,563	4,368	5,145
	All	6,899	8,094	8,153
OCT	W	6,886	7,034	6,954
	AN	7,145	7,152	7,470
	BN	6,396	7,072	6,578
	D	6,128	6,494	6,789
	C	5,902	5,752	5,997
	All	6,530	6,752	6,789
NOV	W	6,672	7,539	6,350
	AN	6,224	7,134	5,562
	BN	5,088	5,936	4,655
	D	5,669	5,406	4,604
	C	4,822	4,710	4,454
	All	5,845	6,324	5,284
DEC	W	12,766	11,022	10,803
	AN	5,531	5,377	5,301
	BN	5,413	5,195	5,728
	D	4,215	3,936	4,113
	C	3,828	3,582	4,171
	All	7,267	6,557	6,692

1 **Table 2. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Keswick, Year-Round**

Alternative 2A: Upstream—Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
JAN	W	2,039 (12.3%)	332 (1.8%)
	AN	-545 (-6.6%)	-432 (-5.3%)
	BN	-186 (-4.1%)	132 (3.2%)
	D	-251 (-6.3%)	-351 (-8.6%)
	C	583 (16.7%)	-165 (-3.9%)
	All	565 (6.6%)	-37 (-0.4%)
FEB	W	2,202 (11.9%)	-74 (-0.4%)
	AN	1,200 (8.3%)	312 (2%)
	BN	337 (5.6%)	774 (14%)
	D	-275 (-7.5%)	-2 (0%)
	C	-235 (-6.5%)	-8 (-0.2%)
	All	837 (8.1%)	153 (1.4%)
MAR	W	952 (5.9%)	87 (0.5%)
	AN	-196 (-2.1%)	117 (1.3%)
	BN	-954 (-18.3%)	-72 (-1.7%)
	D	-45 (-1.2%)	44 (1.2%)
	C	348 (10%)	251 (7%)
	All	151 (1.7%)	79 (0.9%)
APR	W	-375 (-4%)	-88 (-1%)
	AN	-403 (-6.5%)	243 (4.4%)
	BN	-52 (-0.9%)	366 (7.3%)
	D	-46 (-0.8%)	223 (4%)
	C	22 (0.3%)	-57 (-0.9%)
	All	-194 (-2.8%)	111 (1.6%)
MAY	W	-1,756 (-18.5%)	603 (8.4%)
	AN	1,340 (17.4%)	1,265 (16.3%)
	BN	-13 (-0.2%)	909 (14.5%)
	D	1,408 (19.2%)	1,075 (14%)
	C	780 (11.6%)	180 (2.5%)
	All	60 (0.8%)	794 (11%)
JUN	W	1,209 (11.7%)	1,311 (12.8%)
	AN	2,629 (23.6%)	1,744 (14.5%)
	BN	877 (8.2%)	688 (6.3%)
	D	1,178 (10.5%)	504 (4.2%)
	C	1,188 (11.4%)	230 (2%)
	All	1,350 (12.6%)	933 (8.4%)
JUL	W	1,269 (9.9%)	-49 (-0.3%)
	AN	632 (4.5%)	-410 (-2.7%)
	BN	-54 (-0.4%)	-265 (-2%)
	D	-469 (-3.5%)	-894 (-6.5%)
	C	-1,762 (-13.7%)	-848 (-7.1%)
	All	125 (1%)	-441 (-3.2%)

Alternative 2A: Upstream—Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
AUG	W	-755 (-6.8%)	-216 (-2.1%)
	AN	425 (4.1%)	-767 (-6.6%)
	BN	-300 (-3%)	-422 (-4.1%)
	D	-1,259 (-11.8%)	-1,617 (-14.7%)
	C	-2,577 (-27.2%)	-452 (-6.2%)
	All	-882 (-8.4%)	-674 (-6.6%)
SEP	W	3,729 (39.7%)	281 (2.2%)
	AN	3,469 (59.2%)	-567 (-5.7%)
	BN	-769 (-14%)	-878 (-15.7%)
	D	-1,111 (-18.6%)	405 (9.1%)
	C	-418 (-7.5%)	776 (17.8%)
	All	1,253 (18.2%)	59 (0.7%)
OCT	W	69 (1%)	-80 (-1.1%)
	AN	325 (4.5%)	318 (4.4%)
	BN	182 (2.8%)	-494 (-7%)
	D	660 (10.8%)	294 (4.5%)
	C	95 (1.6%)	245 (4.3%)
	All	259 (4%)	37 (0.6%)
NOV	W	-323 (-4.8%)	-1,189 (-15.8%)
	AN	-662 (-10.6%)	-1,572 (-22%)
	BN	-432 (-8.5%)	-1,281 (-21.6%)
	D	-1,065 (-18.8%)	-802 (-14.8%)
	C	-369 (-7.6%)	-256 (-5.4%)
	All	-561 (-9.6%)	-1,039 (-16.4%)
DEC	W	-1,963 (-15.4%)	-219 (-2%)
	AN	-230 (-4.2%)	-76 (-1.4%)
	BN	315 (5.8%)	533 (10.3%)
	D	-101 (-2.4%)	177 (4.5%)
	C	343 (9%)	589 (16.5%)
	All	-574 (-7.9%)	135 (2.1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.2.1.2 Sacramento River Upstream of Red Bluff**

2 **Table 3. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River Upstream of Red**
 3 **Bluff, Year-Round**

Alternative 2A: Upstream—Sacramento River Upstream of Red Bluff				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	28,036	30,390	30,719
	AN	16,725	16,885	16,451
	BN	9,381	9,146	9,270
	D	7,098	7,262	6,908
	C	6,143	6,942	6,782
	All	15,396	16,278	16,239
FEB	W	30,255	33,472	33,393
	AN	23,492	24,828	25,140
	BN	12,005	11,614	12,385
	D	8,947	8,790	8,790
	C	6,599	6,378	6,362
	All	18,010	19,092	19,242
MAR	W	25,004	26,210	26,296
	AN	16,599	16,428	16,542
	BN	9,333	8,474	8,384
	D	8,385	8,300	8,344
	C	5,999	6,101	6,355
	All	14,669	14,876	14,952
APR	W	15,172	14,842	14,752
	AN	10,477	9,761	10,002
	BN	8,711	8,282	8,649
	D	7,948	7,661	7,882
	C	7,742	7,829	7,773
	All	10,709	10,376	10,486
MAY	W	12,541	10,073	10,674
	AN	10,012	10,047	11,308
	BN	8,781	7,875	8,780
	D	8,677	9,012	10,084
	C	7,746	8,348	8,529
	All	9,979	9,208	10,000
JUN	W	11,905	11,720	13,024
	AN	12,001	12,789	14,523
	BN	11,464	11,651	12,332
	D	11,777	12,441	12,937
	C	10,885	11,881	12,061
	All	11,666	12,046	12,965
JUL	W	13,255	14,525	14,468
	AN	14,129	15,142	14,723
	BN	13,011	13,258	12,991
	D	13,368	13,826	12,931
	C	13,005	12,149	11,381
	All	13,329	13,898	13,464

Alternative 2A: Upstream—Sacramento River Upstream of Red Bluff				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL
AUG	W	11,284	10,735	10,520
	AN	10,580	11,775	11,012
	BN	10,202	10,364	9,946
	D	10,747	11,143	9,531
	C	9,590	7,665	7,273
	All	10,630	10,464	9,802
SEP	W	9,856	13,312	13,594
	AN	6,279	10,320	9,758
	BN	5,821	5,963	5,090
	D	6,391	4,911	5,327
	C	5,887	4,838	5,661
	All	7,302	8,535	8,605
OCT	W	8,020	8,188	8,108
	AN	8,112	8,162	8,480
	BN	7,094	7,778	7,291
	D	6,903	7,287	7,565
	C	6,670	6,537	6,795
	All	7,432	7,675	7,712
NOV	W	9,876	10,821	9,633
	AN	8,144	9,098	7,521
	BN	6,791	7,682	6,405
	D	7,548	7,347	6,544
	C	5,811	5,703	5,443
	All	7,990	8,521	7,482
DEC	W	21,015	19,613	19,402
	AN	10,019	10,053	9,989
	BN	8,408	8,228	8,770
	D	7,292	7,091	7,278
	C	5,628	5,433	6,025
	All	11,989	11,446	11,590

1 **Table 4. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **Upstream of Red Bluff, Year-Round**

Alternative 2A: Upstream—Sacramento River Upstream of Red Bluff			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
JAN	W	2,683 (9.6%)	330 (1.1%)
	AN	-274 (-1.6%)	-435 (-2.6%)
	BN	-111 (-1.2%)	124 (1.4%)
	D	-190 (-2.7%)	-354 (-4.9%)
	C	639 (10.4%)	-160 (-2.3%)
	All	844 (5.5%)	-39 (-0.2%)
FEB	W	3,138 (10.4%)	-79 (-0.2%)
	AN	1,649 (7%)	312 (1.3%)
	BN	381 (3.2%)	771 (6.6%)
	D	-157 (-1.8%)	0 (0%)
	C	-237 (-3.6%)	-16 (-0.3%)
	All	1,232 (6.8%)	150 (0.8%)
MAR	W	1,292 (5.2%)	86 (0.3%)
	AN	-57 (-0.3%)	114 (0.7%)
	BN	-948 (-10.2%)	-89 (-1.1%)
	D	-41 (-0.5%)	44 (0.5%)
	C	356 (5.9%)	254 (4.2%)
	All	283 (1.9%)	75 (0.5%)
APR	W	-420 (-2.8%)	-90 (-0.6%)
	AN	-475 (-4.5%)	241 (2.5%)
	BN	-61 (-0.7%)	367 (4.4%)
	D	-66 (-0.8%)	221 (2.9%)
	C	31 (0.4%)	-57 (-0.7%)
	All	-223 (-2.1%)	110 (1.1%)
MAY	W	-1,866 (-14.9%)	602 (6%)
	AN	1,296 (12.9%)	1,261 (12.6%)
	BN	-1 (0%)	905 (11.5%)
	D	1,407 (16.2%)	1,072 (11.9%)
	C	783 (10.1%)	181 (2.2%)
	All	21 (0.2%)	792 (8.6%)
JUN	W	1,118 (9.4%)	1,304 (11.1%)
	AN	2,522 (21%)	1,734 (13.6%)
	BN	868 (7.6%)	681 (5.8%)
	D	1,159 (9.8%)	496 (4%)
	C	1,176 (10.8%)	180 (1.5%)
	All	1,298 (11.1%)	918 (7.6%)
JUL	W	1,213 (9.2%)	-57 (-0.4%)
	AN	593 (4.2%)	-419 (-2.8%)
	BN	-20 (-0.2%)	-267 (-2%)
	D	-438 (-3.3%)	-896 (-6.5%)
	C	-1,624 (-12.5%)	-769 (-6.3%)
	All	134 (1%)	-434 (-3.1%)

Alternative 2A: Upstream—Sacramento River Upstream of Red Bluff			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	-764 (-6.8%)	-215 (-2%)
	AN	432 (4.1%)	-763 (-6.5%)
	BN	-256 (-2.5%)	-418 (-4%)
	D	-1,216 (-11.3%)	-1,612 (-14.5%)
	C	-2,318 (-24.2%)	-392 (-5.1%)
	All	-829 (-7.8%)	-663 (-6.3%)
SEP	W	3,738 (37.9%)	282 (2.1%)
	AN	3,478 (55.4%)	-563 (-5.5%)
	BN	-731 (-12.6%)	-873 (-14.6%)
	D	-1,064 (-16.6%)	416 (8.5%)
	C	-226 (-3.8%)	823 (17%)
	All	1,303 (17.8%)	70 (0.8%)
OCT	W	88 (1.1%)	-80 (-1%)
	AN	368 (4.5%)	318 (3.9%)
	BN	197 (2.8%)	-487 (-6.3%)
	D	663 (9.6%)	279 (3.8%)
	C	125 (1.9%)	258 (4%)
	All	279 (3.8%)	37 (0.5%)
NOV	W	-244 (-2.5%)	-1,188 (-11%)
	AN	-622 (-7.6%)	-1,576 (-17.3%)
	BN	-385 (-5.7%)	-1,277 (-16.6%)
	D	-1,004 (-13.3%)	-803 (-10.9%)
	C	-368 (-6.3%)	-260 (-4.6%)
	All	-508 (-6.4%)	-1,040 (-12.2%)
DEC	W	-1,613 (-7.7%)	-211 (-1.1%)
	AN	-31 (-0.3%)	-65 (-0.6%)
	BN	362 (4.3%)	542 (6.6%)
	D	-14 (-0.2%)	186 (2.6%)
	C	398 (7.1%)	593 (10.9%)
	All	-399 (-3.3%)	144 (1.3%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.2.1.3 Sacramento River at Wilkins Slough**

2 **Table 5. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Wilkins Slough,**
 3 **Year-Round**

Alternative 2A: Upstream—Sacramento River at Wilkins Slough				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL2
JAN	W	19,145	19,320	19,351
	AN	17,084	16,593	16,560
	BN	12,521	12,143	12,210
	D	8,896	9,189	8,853
	C	7,858	8,586	8,424
	All	13,811	13,901	13,820
FEB	W	19,887	20,044	20,053
	AN	19,139	19,095	19,106
	BN	14,528	14,328	14,466
	D	11,520	11,473	11,481
	C	8,499	8,158	8,157
	All	15,359	15,309	15,338
MAR	W	18,223	18,323	18,340
	AN	17,696	17,537	17,698
	BN	12,208	11,534	11,456
	D	11,364	11,191	11,363
	C	8,101	8,166	8,423
	All	14,132	13,997	14,088
APR	W	13,392	13,119	13,058
	AN	10,264	9,783	10,061
	BN	7,152	6,858	7,221
	D	5,319	5,112	5,327
	C	4,164	4,331	4,265
	All	8,746	8,518	8,639
MAY	W	10,467	8,435	9,044
	AN	7,318	7,500	8,733
	BN	5,638	4,871	5,743
	D	4,669	5,088	6,133
	C	3,998	4,528	4,724
	All	6,962	6,383	7,164
JUN	W	6,503	6,435	7,688
	AN	5,781	6,530	8,201
	BN	5,243	5,628	6,260
	D	5,245	6,075	6,515
	C	5,140	6,253	6,257
	All	5,707	6,205	7,052
JUL	W	6,685	7,771	7,646
	AN	6,971	7,892	7,403
	BN	6,122	6,560	6,277
	D	6,788	7,474	6,530
	C	7,162	6,649	5,940
	All	6,723	7,353	6,882

Alternative 2A: Upstream—Sacramento River at Wilkins Slough				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
AUG	W	6,287	5,537	5,338
	AN	5,498	6,610	5,880
	BN	5,138	5,462	5,022
	D	5,833	6,356	4,749
	C	5,551	4,719	4,668
	All	5,768	5,741	5,136
SEP	W	9,338	12,737	13,037
	AN	5,631	9,546	9,036
	BN	5,128	5,216	4,358
	D	5,636	4,114	4,614
	C	5,200	4,354	5,281
	All	6,658	7,866	7,986
OCT	W	7,347	7,382	7,300
	AN	6,799	6,927	7,171
	BN	5,987	6,570	6,087
	D	5,688	6,040	6,271
	C	5,642	5,572	5,876
	All	6,421	6,617	6,640
NOV	W	9,644	10,889	9,670
	AN	8,210	9,141	7,531
	BN	6,793	7,588	6,337
	D	7,407	7,227	6,431
	C	5,118	4,986	4,750
	All	7,794	8,402	7,357
DEC	W	17,881	17,257	17,275
	AN	10,809	10,755	10,874
	BN	8,505	8,258	8,847
	D	8,950	8,725	8,962
	C	6,229	5,981	6,557
	All	11,580	11,246	11,506

1 **Table 6. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Wilkins Slough, Year-Round**

Alternative 2A: Upstream—Sacramento River at Wilkins Slough			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
JAN	W	206 (1.1%)	30 (0.2%)
	AN	-524 (-3.1%)	-33 (-0.2%)
	BN	-312 (-2.5%)	66 (0.5%)
	D	-42 (-0.5%)	-335 (-3.6%)
	C	566 (7.2%)	-162 (-1.9%)
	ALL	9 (0.1%)	-81 (-0.6%)
FEB	W	166 (0.8%)	9 (0%)
	AN	-33 (-0.2%)	11 (0.1%)
	BN	-62 (-0.4%)	138 (1%)
	D	-39 (-0.3%)	7 (0.1%)
	C	-342 (-4%)	-2 (0%)
	ALL	-22 (-0.1%)	29 (0.2%)
MAR	W	118 (0.6%)	18 (0.1%)
	AN	2 (0%)	161 (0.9%)
	BN	-751 (-6.2%)	-78 (-0.7%)
	D	-1 (0%)	172 (1.5%)
	C	322 (4%)	257 (3.1%)
	ALL	-44 (-0.3%)	91 (0.7%)
APR	W	-334 (-2.5%)	-61 (-0.5%)
	AN	-203 (-2%)	278 (2.8%)
	BN	68 (1%)	363 (5.3%)
	D	8 (0.1%)	215 (4.2%)
	C	101 (2.4%)	-66 (-1.5%)
	ALL	-107 (-1.2%)	121 (1.4%)
MAY	W	-1,423 (-13.6%)	609 (7.2%)
	AN	1,415 (19.3%)	1,233 (16.4%)
	BN	105 (1.9%)	872 (17.9%)
	D	1,464 (31.4%)	1,046 (20.6%)
	C	726 (18.2%)	196 (4.3%)
	ALL	202 (2.9%)	781 (12.2%)
JUN	W	1,184 (18.2%)	1,252 (19.5%)
	AN	2,420 (41.9%)	1,671 (25.6%)
	BN	1,017 (19.4%)	632 (11.2%)
	D	1,269 (24.2%)	440 (7.2%)
	C	1,116 (21.7%)	4 (0.1%)
	ALL	1,345 (23.6%)	847 (13.6%)
JUL	W	961 (14.4%)	-125 (-1.6%)
	AN	432 (6.2%)	-489 (-6.2%)
	BN	155 (2.5%)	-283 (-4.3%)
	D	-257 (-3.8%)	-944 (-12.6%)
	C	-1,222 (-17.1%)	-709 (-10.7%)
	ALL	159 (2.4%)	-471 (-6.4%)

Alternative 2A: Upstream—Sacramento River at Wilkins Slough			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
AUG	W	-949 (-15.1%)	-199 (-3.6%)
	AN	382 (6.9%)	-730 (-11%)
	BN	-116 (-2.2%)	-440 (-8.1%)
	D	-1,084 (-18.6%)	-1,607 (-25.3%)
	C	-884 (-15.9%)	-52 (-1.1%)
	ALL	-632 (-11%)	-605 (-10.5%)
SEP	W	3,699 (39.6%)	299 (2.3%)
	AN	3,404 (60.5%)	-510 (-5.3%)
	BN	-769 (-15%)	-857 (-16.4%)
	D	-1,022 (-18.1%)	500 (12.2%)
	C	81 (1.6%)	927 (21.3%)
	ALL	1,327 (19.9%)	119 (1.5%)
OCT	W	-47 (-0.6%)	-82 (-1.1%)
	AN	371 (5.5%)	244 (3.5%)
	BN	100 (1.7%)	-483 (-7.4%)
	D	583 (10.3%)	231 (3.8%)
	C	234 (4.2%)	304 (5.4%)
	ALL	219 (3.4%)	22 (0.3%)
NOV	W	26 (0.3%)	-1,219 (-11.2%)
	AN	-678 (-8.3%)	-1,609 (-17.6%)
	BN	-456 (-6.7%)	-1,251 (-16.5%)
	D	-976 (-13.2%)	-796 (-11%)
	C	-368 (-7.2%)	-236 (-4.7%)
	ALL	-437 (-5.6%)	-1,045 (-12.4%)
DEC	W	-606 (-3.4%)	19 (0.1%)
	AN	65 (0.6%)	119 (1.1%)
	BN	342 (4%)	589 (7.1%)
	D	12 (0.1%)	237 (2.7%)
	C	329 (5.3%)	576 (9.6%)
	ALL	-73 (-0.6%)	260 (2.3%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.2.1.4 Sacramento River at Verona**

2 **Table 7. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Verona,**
 3 **Year-Round**

Alternative 2A: Upstream—Sacramento River at Verona				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	44,589	45,567	43,947
	AN	34,120	33,671	31,711
	BN	20,175	19,121	17,565
	D	14,756	14,782	14,040
	C	12,085	13,051	12,305
	All	27,583	27,795	26,457
FEB	W	49,892	51,326	50,131
	AN	39,162	39,749	38,379
	BN	26,429	25,341	24,187
	D	18,402	18,090	17,151
	C	12,822	12,325	11,876
	All	31,979	32,192	31,144
MAR	W	43,455	44,624	42,433
	AN	39,477	39,687	38,226
	BN	21,484	19,448	17,994
	D	17,868	17,649	16,715
	C	11,903	11,789	11,808
	All	28,888	28,877	27,518
APR	W	32,219	31,636	29,437
	AN	22,250	21,313	20,184
	BN	14,459	13,857	14,190
	D	11,113	10,903	11,727
	C	9,420	9,489	9,677
	All	19,759	19,298	18,701
MAY	W	26,193	20,229	21,248
	AN	17,079	16,002	18,170
	BN	11,451	10,534	12,626
	D	9,283	9,841	11,146
	C	7,125	7,611	7,674
	All	15,840	13,828	15,121
JUN	W	18,367	15,304	18,635
	AN	13,590	13,574	19,205
	BN	11,062	11,320	14,633
	D	10,429	10,780	11,703
	C	8,911	9,827	9,674
	All	13,295	12,576	15,202
JUL	W	16,253	17,965	16,166
	AN	17,488	18,338	17,178
	BN	16,698	16,598	14,988
	D	16,352	16,465	12,174
	C	14,476	12,457	10,076
	All	16,271	16,651	14,346

Alternative 2A: Upstream—Sacramento River at Verona				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
AUG	W	12,464	14,016	11,999
	AN	13,691	15,828	13,436
	BN	13,389	14,074	11,964
	D	14,688	13,018	9,952
	C	9,207	8,085	8,004
	All	12,813	13,204	11,169
SEP	W	14,279	23,592	22,647
	AN	10,537	19,044	16,763
	BN	9,961	10,576	8,063
	D	10,542	7,664	8,239
	C	7,764	6,832	8,071
	All	11,220	14,755	14,000
OCT	W	11,503	11,232	11,144
	AN	9,381	9,890	10,520
	BN	9,867	10,146	9,465
	D	8,681	8,989	9,587
	C	8,543	8,104	9,142
	All	9,861	9,900	10,131
NOV	W	15,307	15,754	14,418
	AN	11,792	12,817	10,890
	BN	9,852	10,437	9,023
	D	10,157	9,731	8,918
	C	7,341	7,223	6,973
	All	11,565	11,846	10,684
DEC	W	33,840	31,254	29,564
	AN	17,572	18,481	17,640
	BN	13,099	13,028	13,428
	D	12,685	12,532	12,391
	C	9,770	8,627	9,080
	All	19,752	18,852	18,297

1 **Table 8. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Verona, Year-Round**

Alternative 2A: Upstream—Sacramento River at Verona			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
JAN	W	-642 (-1.4%)	-1,620 (-3.6%)
	AN	-2,409 (-7.1%)	-1,960 (-5.8%)
	BN	-2,610 (-12.9%)	-1,555 (-8.1%)
	D	-716 (-4.9%)	-742 (-5%)
	C	220 (1.8%)	-746 (-5.7%)
	All	-1,127 (-4.1%)	-1,338 (-4.8%)
FEB	W	239 (0.5%)	-1,195 (-2.3%)
	AN	-782 (-2%)	-1,369 (-3.4%)
	BN	-2,242 (-8.5%)	-1,154 (-4.6%)
	D	-1,251 (-6.8%)	-939 (-5.2%)
	C	-945 (-7.4%)	-449 (-3.6%)
	All	-834 (-2.6%)	-1,048 (-3.3%)
MAR	W	-1,022 (-2.4%)	-2,191 (-4.9%)
	AN	-1,252 (-3.2%)	-1,462 (-3.7%)
	BN	-3,490 (-16.2%)	-1,454 (-7.5%)
	D	-1,153 (-6.5%)	-934 (-5.3%)
	C	-95 (-0.8%)	19 (0.2%)
	All	-1,370 (-4.7%)	-1,359 (-4.7%)
APR	W	-2,782 (-8.6%)	-2,198 (-6.9%)
	AN	-2,066 (-9.3%)	-1,129 (-5.3%)
	BN	-269 (-1.9%)	333 (2.4%)
	D	614 (5.5%)	824 (7.6%)
	C	257 (2.7%)	188 (2%)
	All	-1,058 (-5.4%)	-597 (-3.1%)
MAY	W	-4,945 (-18.9%)	1,020 (5%)
	AN	1,090 (6.4%)	2,168 (13.5%)
	BN	1,174 (10.3%)	2,091 (19.9%)
	D	1,862 (20.1%)	1,305 (13.3%)
	C	549 (7.7%)	63 (0.8%)
	All	-719 (-4.5%)	1,293 (9.4%)
JUN	W	268 (1.5%)	3,332 (21.8%)
	AN	5,614 (41.3%)	5,630 (41.5%)
	BN	3,571 (32.3%)	3,313 (29.3%)
	D	1,275 (12.2%)	923 (8.6%)
	C	763 (8.6%)	-153 (-1.6%)
	All	1,908 (14.3%)	2,626 (20.9%)
JUL	W	-87 (-0.5%)	-1,799 (-10%)
	AN	-310 (-1.8%)	-1,160 (-6.3%)
	BN	-1,709 (-10.2%)	-1,610 (-9.7%)
	D	-4,178 (-25.6%)	-4,291 (-26.1%)
	C	-4,400 (-30.4%)	-2,381 (-19.1%)
	All	-1,926 (-11.8%)	-2,306 (-13.8%)

Alternative 2A: Upstream—Sacramento River at Verona			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
AUG	W	-465 (-3.7%)	-2,017 (-14.4%)
	AN	-256 (-1.9%)	-2,392 (-15.1%)
	BN	-1,424 (-10.6%)	-2,110 (-15%)
	D	-4,736 (-32.2%)	-3,066 (-23.6%)
	C	-1,203 (-13.1%)	-81 (-1%)
	All	-1,644 (-12.8%)	-2,035 (-15.4%)
SEP	W	8,368 (58.6%)	-945 (-4%)
	AN	6,227 (59.1%)	-2,280 (-12%)
	BN	-1,898 (-19.1%)	-2,513 (-23.8%)
	D	-2,303 (-21.8%)	575 (7.5%)
	C	307 (3.9%)	1,239 (18.1%)
	All	2,780 (24.8%)	-755 (-5.1%)
OCT	W	-359 (-3.1%)	-88 (-0.8%)
	AN	1,140 (12.1%)	630 (6.4%)
	BN	-402 (-4.1%)	-681 (-6.7%)
	D	906 (10.4%)	598 (6.7%)
	C	599 (7%)	1,038 (12.8%)
	All	271 (2.7%)	231 (2.3%)
NOV	W	-889 (-5.8%)	-1,337 (-8.5%)
	AN	-903 (-7.7%)	-1,927 (-15%)
	BN	-829 (-8.4%)	-1,414 (-13.6%)
	D	-1,239 (-12.2%)	-814 (-8.4%)
	C	-368 (-5%)	-250 (-3.5%)
	All	-881 (-7.6%)	-1,162 (-9.8%)
DEC	W	-4,277 (-12.6%)	-1,691 (-5.4%)
	AN	68 (0.4%)	-841 (-4.5%)
	BN	328 (2.5%)	400 (3.1%)
	D	-294 (-2.3%)	-141 (-1.1%)
	C	-690 (-7.1%)	453 (5.3%)
	All	-1,455 (-7.4%)	-556 (-2.9%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.2.1.5 Trinity River below Lewiston**2 **Table 9. Mean Monthly Flows (cfs) for Model Scenarios in the Trinity River Below Lewiston,**
3 **Year-Round**

Alternative 2A: Upstream—Trinity River below Lewiston				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	1,440	1,518	1,425
	AN	300	300	300
	BN	358	300	300
	D	300	300	300
	C	300	287	275
	All	671	684	653
FEB	W	1,056	1,495	1,426
	AN	689	784	773
	BN	517	568	662
	D	300	300	300
	C	300	300	275
	All	634	795	784
MAR	W	1,209	1,385	1,376
	AN	436	519	519
	BN	319	300	300
	D	300	300	300
	C	300	300	300
	All	611	676	673
APR	W	721	844	844
	AN	469	513	511
	BN	507	504	504
	D	529	529	529
	C	575	580	580
	All	584	630	629
MAY	W	4,636	4,620	4,620
	AN	4,462	4,416	4,416
	BN	3,774	3,865	3,865
	D	3,216	3,216	3,216
	C	2,092	1,973	1,973
	All	3,779	3,766	3,766
JUN	W	3,371	3,560	3,560
	AN	2,488	3,188	3,188
	BN	1,672	1,767	1,767
	D	1,251	1,251	1,251
	C	783	783	783
	All	2,108	2,286	2,286
JUL	W	1,289	1,103	1,103
	AN	1,048	1,048	1,048
	BN	869	916	916
	D	667	667	667
	C	450	413	450
	All	923	866	872

Alternative 2A: Upstream—Trinity River below Lewiston				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL
AUG	W	450	450	450
	AN	450	450	450
	BN	450	450	450
	D	450	450	450
	C	450	338	300
	All	450	434	428
SEP	W	450	450	450
	AN	450	450	450
	BN	450	450	450
	D	450	450	450
	C	450	265	188
	All	450	423	412
OCT	W	373	373	373
	AN	373	311	332
	BN	346	346	346
	D	373	346	352
	C	373	311	280
	All	368	344	344
NOV	W	489	414	365
	AN	300	275	275
	BN	300	300	300
	D	300	283	283
	C	300	225	225
	All	360	318	302
DEC	W	1,072	837	933
	AN	300	300	300
	BN	300	300	300
	D	300	300	300
	C	300	275	272
	All	545	466	497

1 **Table 10. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Trinity River**
 2 **Below Lewiston, Year-Round**

Alternative 2A: Upstream—Trinity River below Lewiston			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLТ	NAA vs. A2A_LLТ
JAN	W	-14 (-1%)	-93 (-6.1%)
	AN	0 (0%)	0 (0%)
	BN	-58 (-16.3%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-25 (-8.3%)	-12 (-4.3%)
	All	-18 (-2.7%)	-31 (-4.6%)
FEB	W	369 (35%)	-69 (-4.6%)
	AN	84 (12.2%)	-10 (-1.3%)
	BN	145 (28.1%)	94 (16.5%)
	D	0 (0%)	0 (0%)
	C	-25 (-8.3%)	-25 (-8.3%)
	All	151 (23.8%)	-11 (-1.4%)
MAR	W	167 (13.8%)	-9 (-0.7%)
	AN	83 (19.1%)	0 (0%)
	BN	-19 (-5.8%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	62 (10.1%)	-3 (-0.4%)
APR	W	122 (17%)	0 (0%)
	AN	42 (8.9%)	-1 (-0.2%)
	BN	-3 (-0.7%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	5 (0.9%)	0 (0%)
	All	45 (7.7%)	0 (0%)
MAY	W	-16 (-0.3%)	0 (0%)
	AN	-46 (-1%)	0 (0%)
	BN	90 (2.4%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-119 (-5.7%)	0 (0%)
	All	-14 (-0.4%)	0 (0%)
JUN	W	189 (5.6%)	0 (0%)
	AN	700 (28.1%)	0 (0%)
	BN	96 (5.7%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	179 (8.5%)	0 (0%)
JUL	W	-185 (-14.4%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	47 (5.4%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	37 (9.1%)
	All	-51 (-5.5%)	5 (0.6%)

Alternative 2A: Upstream—Trinity River below Lewiston			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-150 (-33.3%)	-37 (-11.1%)
	All	-22 (-4.9%)	-5 (-1.3%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-262 (-58.3%)	-78 (-29.3%)
	All	-38 (-8.5%)	-11 (-2.7%)
OCT	W	0 (0%)	0 (0%)
	AN	-41 (-11.1%)	21 (6.7%)
	BN	0 (0%)	0 (0%)
	D	-21 (-5.6%)	6 (1.9%)
	C	-93 (-25%)	-31 (-10%)
	All	-24 (-6.6%)	0 (0%)
NOV	W	-123 (-25.2%)	-49 (-11.7%)
	AN	-25 (-8.3%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	-17 (-5.6%)	0 (0%)
	C	-75 (-25%)	0 (0%)
	All	-57 (-15.9%)	-15 (-4.8%)
DEC	W	-139 (-12.9%)	96 (11.5%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-28 (-9.3%)	-3 (-0.9%)
	All	-48 (-8.8%)	30 (6.5%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.2.1.6 Clear Creek below Whiskeytown**

2 **Table 11. Mean Monthly Flows (cfs) for Model Scenarios in Clear Creek Below Whiskeytown,**
 3 **Year-Round**

Alternative 2A: Upstream—Clear Creek below Whiskeytown				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	220	339	339
	AN	192	192	192
	BN	189	189	189
	D	184	192	192
	C	155	159	171
	All	193	233	235
FEB	W	220	257	257
	AN	197	196	196
	BN	189	189	189
	D	184	192	192
	C	155	168	158
	All	194	209	208
MAR	W	200	259	258
	AN	197	196	196
	BN	189	202	189
	D	186	192	192
	C	155	168	171
	All	188	212	210
APR	W	200	200	200
	AN	197	196	196
	BN	189	189	189
	D	188	192	192
	C	155	168	171
	All	189	191	191
MAY	W	277	277	277
	AN	277	277	277
	BN	263	269	269
	D	264	264	264
	C	211	224	224
	All	262	265	265
JUN	W	200	200	200
	AN	200	200	200
	BN	181	186	186
	D	180	180	180
	C	115	131	120
	All	180	183	181
JUL	W	85	85	85
	AN	85	85	85
	BN	85	85	85
	D	85	85	85
	C	85	85	88
	All	85	85	85

Alternative 2A: Upstream—Clear Creek below Whiskeytown				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL
AUG	W	85	85	85
	AN	85	85	85
	BN	85	85	85
	D	85	85	85
	C	94	71	78
	All	86	83	84
SEP	W	150	150	150
	AN	150	150	150
	BN	150	150	150
	D	144	150	150
	C	133	96	95
	All	146	142	142
OCT	W	198	198	198
	AN	183	183	183
	BN	189	182	189
	D	175	183	175
	C	150	142	140
	All	182	182	181
NOV	W	198	198	198
	AN	185	182	182
	BN	184	189	189
	D	177	177	176
	C	155	145	146
	All	183	182	182
DEC	W	198	198	198
	AN	185	192	192
	BN	189	189	189
	D	177	189	189
	C	155	156	158
	All	184	187	188

1 **Table 12. Differences^a (Percent Differences) between Pairs of Model Scenarios in Clear Creek Below**
 2 **Whiskeytown, Year-Round**

Alternative 2A: Upstream—Clear Creek below Whiskeytown			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
JAN	W	118 (53.6%)	0 (-0.1%)
	AN	0 (-0.1%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	7 (3.9%)	0(0%)
	C	16 (10.2%)	12 (7.4%)
	All	41 (21.4%)	2 (0.7%)
FEB	W	38 (17.1%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	7 (3.9%)	0 (0%)
	C	3 (2.2%)	-10 (-5.8%)
	All	14 (7.2%)	-1 (-0.7%)
MAR	W	58 (29.2%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	-12 (-6.1%)
	D	6 (3.2%)	0 (0%)
	C	16 (10.2%)	3 (1.7%)
	All	22 (11.7%)	-2 (-0.8%)
APR	W	0 (0%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	3 (1.7%)	0 (0%)
	C	16 (10.2%)	3 (1.7%)
	All	3 (1.5%)	0 (0.2%)
MAY	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	6 (2.2%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	13 (6.2%)	0 (0%)
	All	3 (1.1%)	0 (0%)
JUN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	5 (2.6%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	5 (4.7%)	-11 (-8.2%)
	All	2 (0.9%)	-2 (-0.9%)
JUL	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	3 (3.3%)	3 (3.3%)
	All	0 (0.5%)	0 (0.5%)

Alternative 2A: Upstream—Clear Creek below Whiskeytown			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-16 (-17.4%)	7 (-10%)
	All	-2 (-2.8%)	1 (1.3%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	6 (3.8%)	0 (0%)
	C	-38 (-28.7%)	-1 (-0.8%)
	All	-4 (-3%)	0 (-0.1%)
OCT	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	7 (4.1%)
	D	0 (0%)	0 (0%)
	C	-10 (-6.8%)	-2 (-1.3%)
	All	-1 (-0.8%)	-1 (-0.5%)
NOV	W	0 (0%)	0 (0%)
	AN	-3 (-1.8%)	0 (0%)
	BN	6 (3.1%)	0 (0%)
	D	-1 (-0.6%)	0 (-0.2%)
	C	-9 (-5.9%)	0 (0.3%)
	All	-1 (-0.6%)	0 (0%)
DEC	W	0 (0%)	0 (0%)
	AN	7 (3.6%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	12 (6.6%)	0 (0%)
	C	3 (2.2%)	3 (1.6%)
	All	4 (2.2%)	0 (0.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.2.1.7 Feather River Low-Flow Channel (Upstream of Thermalito**
 2 **Afterbay)**

3 **Table 13. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River Upstream of Thermalito**
 4 **Afterbay (Low-Flow Channel), Year-Round**

Alternative 2A: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
FEB	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
MAR	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	797
	All	800	800	800
APR	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
MAY	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
JUN	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700

Alternative 2A: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JUL	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
AUG	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
SEP	W	773	773	773
	AN	773	773	773
	BN	773	773	773
	D	773	773	773
	C	773	773	773
	All	773	773	773
OCT	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
NOV	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
DEC	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800

1 **Table 14. Differences (Percent Differences) between Pairs of Model Scenarios in the Feather River**
 2 **Upstream of Thermalito Afterbay (Low-Flow Channel), Year-Round**

Alternative 2A: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
JAN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
FEB	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
MAR	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
APR	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
MAY	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
JUN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
JUL	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)

Alternative 2A: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
OCT	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
NOV	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
DEC	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)

1 **11C.2.1.8 Feather River High-Flow Channel (at Thermalito Afterbay)**

2 **Table 15. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at Thermalito Afterbay**
 3 **(High-Flow Channel), Year-Round**

Alternative 2A: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	11,257	11,896	11,116
	AN	4,434	2,838	2,817
	BN	2,640	1,441	1,483
	D	1,798	1,459	1,709
	C	1,459	1,648	1,444
	All	5,277	4,995	4,777
FEB	W	12,466	14,787	16,021
	AN	7,411	5,809	7,114
	BN	3,916	1,897	2,166
	D	1,817	1,659	1,617
	C	1,610	1,482	1,488
	All	6,340	6,444	7,063
MAR	W	12,895	14,772	14,470
	AN	7,733	8,568	9,783
	BN	3,373	1,985	1,824
	D	2,017	1,762	1,915
	C	1,697	1,634	1,804
	All	6,487	6,902	7,015
APR	W	6,472	6,408	6,399
	AN	2,251	2,170	2,208
	BN	1,205	1,203	1,696
	D	1,286	1,470	2,284
	C	1,389	1,407	1,756
	All	3,073	3,084	3,400
MAY	W	7,528	4,740	5,235
	AN	3,340	3,101	4,116
	BN	1,205	1,749	3,052
	D	1,591	2,223	2,580
	C	1,574	1,790	1,768
	All	3,661	3,005	3,608
JUN	W	5,062	4,211	6,376
	AN	3,301	3,930	8,043
	BN	2,707	3,552	6,311
	D	3,134	3,284	3,865
	C	2,695	2,666	2,709
	All	3,632	3,628	5,521
JUL	W	6,490	8,577	7,045
	AN	8,757	9,488	8,900
	BN	8,981	8,833	7,605
	D	8,294	8,099	4,787
	C	6,703	5,217	3,378
	All	7,674	8,157	6,380

Alternative 2A: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
AUG	W	3,308	6,228	4,726
	AN	6,042	7,346	5,770
	BN	6,295	6,868	5,249
	D	7,036	4,990	3,620
	C	2,613	2,163	2,208
	All	4,935	5,634	4,356
SEP	W	2,280	8,327	7,231
	AN	2,253	6,899	5,215
	BN	2,466	3,068	1,470
	D	2,366	1,052	1,275
	C	1,421	1,345	1,693
	All	2,201	4,601	3,835
OCT	W	3,456	3,051	3,116
	AN	2,386	2,741	3,221
	BN	3,183	2,862	2,747
	D	2,688	2,652	3,090
	C	2,472	2,102	2,924
	All	2,940	2,747	3,035
NOV	W	3,292	2,470	2,391
	AN	1,824	2,119	1,858
	BN	2,101	1,900	1,824
	D	1,859	1,664	1,737
	C	1,854	1,876	1,970
	All	2,349	2,058	2,011
DEC	W	7,157	3,948	4,617
	AN	2,951	3,344	3,096
	BN	2,176	2,102	2,268
	D	2,364	2,229	2,173
	C	2,609	1,694	1,684
	All	3,973	2,837	3,028

1 **Table 16. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Feather River at**
 2 **Thermalito Afterbay (High-Flow Channel), Year-Round**

Alternative 2A: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLТ	NAA vs. A2A_LLТ
JAN	W	-141 (-1.3%)	-779 (-6.6%)
	AN	-1,616 (-36.5%)	-21 (-0.7%)
	BN	-1,157 (-43.8%)	42 (2.9%)
	D	-90 (-5%)	250 (17.1%)
	C	-15 (-1%)	-204 (-12.4%)
	All	-501 (-9.5%)	-218 (-4.4%)
FEB	W	3,555 (28.5%)	1,233 (8.3%)
	AN	-296 (-4%)	1,306 (22.5%)
	BN	-1,750 (-44.7%)	270 (14.2%)
	D	-200 (-11%)	-43 (-2.6%)
	C	-122 (-7.6%)	7 (0.5%)
	All	723 (11.4%)	620 (9.6%)
MAR	W	1,575 (12.2%)	-302 (-2%)
	AN	2,050 (26.5%)	1,215 (14.2%)
	BN	-1,550 (-45.9%)	-161 (-8.1%)
	D	-102 (-5.1%)	153 (8.7%)
	C	107 (6.3%)	170 (10.4%)
	All	528 (8.1%)	113 (1.6%)
APR	W	-73 (-1.1%)	-9 (-0.1%)
	AN	-43 (-1.9%)	38 (1.8%)
	BN	491 (40.8%)	492 (40.9%)
	D	998 (77.6%)	814 (55.4%)
	C	367 (26.4%)	349 (24.8%)
	All	327 (10.6%)	316 (10.3%)
MAY	W	-2,292 (-30.5%)	495 (10.5%)
	AN	776 (23.2%)	1,014 (32.7%)
	BN	1,847 (153.2%)	1,303 (74.5%)
	D	988 (62.1%)	356 (16%)
	C	193 (12.3%)	-22 (-1.2%)
	All	-53 (-1.4%)	603 (20.1%)
JUN	W	1,314 (26%)	2,165 (51.4%)
	AN	4,742 (143.6%)	4,114 (104.7%)
	BN	3,605 (133.2%)	2,760 (77.7%)
	D	732 (23.3%)	581 (17.7%)
	C	14 (0.5%)	43 (1.6%)
	All	1,889 (52%)	1,894 (52.2%)
JUL	W	555 (8.6%)	-1,532 (-17.9%)
	AN	144 (1.6%)	-588 (-6.2%)
	BN	-1,376 (-15.3%)	-1,228 (-13.9%)
	D	-3,507 (-42.3%)	-3,312 (-40.9%)
	C	-3,325 (-49.6%)	-1,839 (-35.3%)
	All	-1,294 (-16.9%)	-1,777 (-21.8%)

Alternative 2A: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
AUG	W	1,417 (42.8%)	-1,503 (-24.1%)
	AN	-273 (-4.5%)	-1,576 (-21.5%)
	BN	-1,046 (-16.6%)	-1,619 (-23.6%)
	D	-3,417 (-48.6%)	-1,371 (-27.5%)
	C	-406 (-15.5%)	45 (2.1%)
	All	-578 (-11.7%)	-1,278 (-22.7%)
SEP	W	4,951 (217.1%)	-1,096 (-13.2%)
	AN	2,962 (131.5%)	-1,684 (-24.4%)
	BN	-996 (-40.4%)	-1,598 (-52.1%)
	D	-1,090 (-46.1%)	223 (21.2%)
	C	273 (19.2%)	349 (25.9%)
	All	1,634 (74.2%)	-767 (-16.7%)
OCT	W	-340 (-9.8%)	65 (2.1%)
	AN	834 (35%)	479 (17.5%)
	BN	-436 (-13.7%)	-114 (-4%)
	D	402 (15%)	438 (16.5%)
	C	452 (18.3%)	822 (39.1%)
	All	94 (3.2%)	288 (10.5%)
NOV	W	-902 (-27.4%)	-79 (-3.2%)
	AN	34 (1.9%)	-261 (-12.3%)
	BN	-277 (-13.2%)	-76 (-4%)
	D	-122 (-6.6%)	73 (4.4%)
	C	116 (6.2%)	94 (5%)
	All	-338 (-14.4%)	-47 (-2.3%)
DEC	W	-2,540 (-35.5%)	669 (16.9%)
	AN	145 (4.9%)	-248 (-7.4%)
	BN	92(4.2%)	166(7.9%)
	D	-191 (-8.1%)	-56 (-2.5%)
	C	-924 (-35.4%)	-10 (-0.6%)
	All	-946 (-23.8%)	190 (6.7%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.2.1.9 Feather River at Confluence with Sacramento River**

2 **Table 17. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at the Confluence with**
 3 **the Sacramento River, Year-Round**

Alternative 2A: Upstream—Feather River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	23,533	26,106	25,333
	AN	12,430	11,953	11,939
	BN	6,499	5,575	5,619
	D	4,621	4,412	4,665
	C	3,646	3,837	3,646
	All	11,938	12,509	12,297
FEB	W	27,039	31,065	32,306
	AN	14,818	14,599	15,912
	BN	9,153	7,892	8,165
	D	4,402	4,436	4,395
	C	3,237	3,096	3,107
	All	13,744	14,761	15,385
MAR	W	24,172	26,784	26,491
	AN	19,990	21,490	22,709
	BN	8,136	6,882	6,710
	D	5,073	4,940	5,082
	C	2,933	2,756	2,922
	All	13,521	14,300	14,412
APR	W	15,897	15,852	15,854
	AN	9,832	9,585	9,628
	BN	5,401	5,189	5,693
	D	4,152	4,137	4,955
	C	3,298	3,185	3,541
	All	8,796	8,689	9,014
MAY	W	14,387	10,385	10,890
	AN	8,068	6,884	7,907
	BN	4,704	4,509	5,818
	D	3,652	3,767	4,123
	C	2,389	2,321	2,289
	All	7,697	6,237	6,843
JUN	W	10,222	7,199	9,362
	AN	6,391	5,598	9,674
	BN	4,495	4,342	7,115
	D	3,853	3,367	3,949
	C	2,782	2,522	2,472
	All	6,197	4,951	6,827
JUL	W	8,177	8,734	7,070
	AN	9,322	9,223	8,540
	BN	9,380	8,725	7,450
	D	8,290	7,674	4,330
	C	6,450	4,891	3,056
	All	8,322	8,009	6,161

Alternative 2A: Upstream—Feather River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
AUG	W	4,923	7,222	5,407
	AN	7,080	8,089	6,418
	BN	7,236	7,570	5,892
	D	7,711	5,487	4,054
	C	2,841	2,340	2,394
	All	5,941	6,313	4,900
SEP	W	4,351	10,329	9,250
	AN	4,194	8,773	7,084
	BN	4,252	4,786	3,211
	D	4,179	2,848	3,015
	C	2,054	1,964	2,327
	All	3,937	6,289	5,520
OCT	W	4,176	3,746	3,828
	AN	2,630	2,988	3,466
	BN	3,754	3,437	3,317
	D	3,033	2,987	3,431
	C	2,938	2,566	3,385
	All	3,446	3,243	3,536
NOV	W	4,697	3,825	3,752
	AN	3,065	3,186	2,937
	BN	2,687	2,455	2,385
	D	2,342	2,125	2,201
	C	2,084	2,107	2,187
	All	3,216	2,873	2,830
DEC	W	12,409	10,246	10,918
	AN	5,193	6,000	5,758
	BN	3,079	3,249	3,421
	D	2,838	2,811	2,758
	C	2,975	2,054	2,057
	All	6,279	5,599	5,795

1 **Table 18. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Feather River at**
 2 **the Confluence with the Sacramento River, Year-Round**

Alternative 2A: Upstream—Feather River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
JAN	W	1,801 (7.7%)	-772 (-3%)
	AN	-490 (-3.9%)	-14 (-0.1%)
	BN	-880 (-13.5%)	44 (0.8%)
	D	43 (0.9%)	252 (5.7%)
	C	0 (0%)	-191 (-5%)
	All	358 (3%)	-212 (-1.7%)
FEB	W	5,267 (19.5%)	1,241 (4%)
	AN	1,094 (7.4%)	1,313 (9%)
	BN	-988 (-10.8%)	273 (3.5%)
	D	-7 (-0.2%)	-42 (-0.9%)
	C	-131 (-4%)	10 (0.3%)
	All	1,641 (11.9%)	625 (4.2%)
MAR	W	2,319 (9.6%)	-293 (-1.1%)
	AN	2,718 (13.6%)	1,219 (5.7%)
	BN	-1,426 (-17.5%)	-172 (-2.5%)
	D	9 (0.2%)	142 (2.9%)
	C	-11 (-0.4%)	166 (6%)
	All	890 (6.6%)	112 (0.8%)
APR	W	-43 (-0.3%)	2 (0%)
	AN	-205 (-2.1%)	43 (0.4%)
	BN	292 (5.4%)	504 (9.7%)
	D	804 (19.4%)	819 (19.8%)
	C	243 (7.4%)	356 (11.2%)
	All	218 (2.5%)	325 (3.7%)
MAY	W	-3,496 (-24.3%)	505 (4.9%)
	AN	-161 (-2%)	1,024 (14.9%)
	BN	1,113 (23.7%)	1,309 (29%)
	D	471 (12.9%)	355 (9.4%)
	C	-99 (-4.2%)	-31 (-1.4%)
	All	-853 (-11.1%)	607 (9.7%)
JUN	W	-860 (-8.4%)	2,163 (30%)
	AN	3,283 (51.4%)	4,076 (72.8%)
	BN	2,620 (58.3%)	2,773 (63.9%)
	D	96 (2.5%)	583 (17.3%)
	C	-310 (-11.2%)	-50 (-2%)
	All	631 (10.2%)	1,876 (37.9%)
JUL	W	-1,107 (-13.5%)	-1,664 (-19.1%)
	AN	-782 (-8.4%)	-682 (-7.4%)
	BN	-1,931 (-20.6%)	-1,275 (-14.6%)
	D	-3,960 (-47.8%)	-3,344 (-43.6%)
	C	-3,394 (-52.6%)	-1,835 (-37.5%)
	All	-2,161 (-26%)	-1,848 (-23.1%)

Alternative 2A: Upstream—Feather River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	484 (9.8%)	-1,815 (-25.1%)
	AN	-662 (-9.4%)	-1,671 (-20.7%)
	BN	-1,343 (-18.6%)	-1,677 (-22.2%)
	D	-3,657 (-47.4%)	-1,433 (-26.1%)
	C	-447 (-15.7%)	54 (2.3%)
	All	-1,041 (-17.5%)	-1,413 (-22.4%)
SEP	W	4,898 (112.6%)	-1,079 (-10.5%)
	AN	2,890 (68.9%)	-1,689 (-19.3%)
	BN	-1,041 (-24.5%)	-1,575 (-32.9%)
	D	-1,164 (-27.8%)	167 (5.9%)
	C	273 (13.3%)	364 (18.5%)
	All	1,583 (40.2%)	-768 (-12.2%)
OCT	W	-348 (-8.3%)	82 (2.2%)
	AN	836 (31.8%)	478 (16%)
	BN	-437 (-11.6%)	-121 (-3.5%)
	D	398 (13.1%)	444 (14.9%)
	C	446 (15.2%)	819 (31.9%)
	All	90 (2.6%)	293 (9%)
NOV	W	-945 (-20.1%)	-73 (-1.9%)
	AN	-128 (-4.2%)	-249 (-7.8%)
	BN	-302 (-11.2%)	-70 (-2.8%)
	D	-142 (-6%)	76 (3.6%)
	C	103 (4.9%)	80 (3.8%)
	All	-386 (-12%)	-43 (-1.5%)
DEC	W	-1,491 (-12%)	672 (6.6%)
	AN	565 (10.9%)	-242 (-4%)
	BN	341 (11.1%)	172 (5.3%)
	D	-80 (-2.8%)	-53 (-1.9%)
	C	-918 (-30.8%)	3 (0.1%)
	All	-484 (-7.7%)	196 (3.5%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.2.1.10 American River at Nimbus Dam**2 **Table 19. Mean Monthly Flows (cfs) for Model Scenarios in the American River at Nimbus Dam,**
3 **Year-Round**

Alternative 2A: Upstream—American River at Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	8,806	11,036	11,011
	AN	4,833	5,805	5,811
	BN	2,392	2,073	2,034
	D	1,723	1,506	1,442
	C	1,474	1,095	1,237
	All	4,502	5,194	5,187
FEB	W	9,294	11,102	11,106
	AN	6,469	8,153	8,247
	BN	4,360	4,961	4,992
	D	1,852	1,844	1,969
	C	1,185	1,007	1,036
	All	5,218	6,112	6,165
MAR	W	6,089	6,992	6,989
	AN	5,454	5,790	5,848
	BN	2,429	2,794	2,797
	D	2,191	2,314	2,191
	C	939	938	868
	All	3,762	4,187	4,157
APR	W	5,300	5,508	5,515
	AN	3,546	3,298	3,300
	BN	3,126	2,970	2,993
	D	1,837	1,888	1,841
	C	1,156	1,255	1,226
	All	3,305	3,334	3,326
MAY	W	6,157	4,592	4,695
	AN	3,885	2,521	3,004
	BN	2,930	1,969	2,418
	D	1,790	1,686	2,098
	C	1,182	992	1,002
	All	3,587	2,676	2,948
JUN	W	6,003	3,694	4,520
	AN	3,346	3,022	3,651
	BN	2,863	2,883	3,551
	D	2,506	2,596	2,750
	C	1,824	1,025	1,267
	All	3,699	2,825	3,363
JUL	W	4,108	3,860	3,575
	AN	4,638	4,927	4,590
	BN	4,744	4,328	3,995
	D	3,577	3,143	2,733
	C	1,784	2,022	2,221
	All	3,838	3,670	3,412

Alternative 2A: Upstream—American River at Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL
AUG	W	3,520	2,132	2,162
	AN	2,542	1,944	1,768
	BN	2,495	2,324	1,799
	D	2,613	1,620	1,320
	C	1,500	1,100	802
	All	2,707	1,874	1,659
SEP	W	4,025	3,622	2,966
	AN	2,764	2,044	1,863
	BN	2,370	1,605	1,377
	D	1,856	1,182	1,177
	C	1,164	594	608
	All	2,663	2,068	1,795
OCT	W	1,723	1,634	1,476
	AN	1,706	1,732	1,630
	BN	1,602	1,767	1,910
	D	1,468	1,258	1,422
	C	1,461	1,655	1,660
	All	1,605	1,592	1,588
NOV	W	3,527	2,612	2,495
	AN	3,181	2,554	2,439
	BN	2,067	1,716	1,700
	D	2,176	1,424	1,501
	C	1,994	1,608	1,479
	All	2,706	2,043	1,984
DEC	W	6,302	6,171	6,083
	AN	3,137	2,933	2,922
	BN	2,676	2,527	2,694
	D	1,741	1,351	1,348
	C	1,524	1,251	1,409
	All	3,519	3,297	3,319

1 **Table 20. Differences^a (Percent Differences) between Pairs of Model Scenarios in the American River**
 2 **at Nimbus Dam, Year-Round**

Alternative 2A: Upstream—American River at Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
JAN	W	2,205 (25%)	-25 (-0.2%)
	AN	978 (20.2%)	6 (0.1%)
	BN	-359 (-15%)	-39 (-1.9%)
	D	-281 (-16.3%)	-64 (-4.3%)
	C	-237 (-16.1%)	142 (13%)
	All	685 (15.2%)	-7 (-0.1%)
FEB	W	1,812 (19.5%)	4 (0%)
	AN	1,778 (27.5%)	95 (1.2%)
	BN	632 (14.5%)	31 (0.6%)
	D	117 (6.3%)	126 (6.8%)
	C	-149 (-12.5%)	30 (3%)
	All	947 (18.1%)	52 (0.9%)
MAR	W	901 (14.8%)	-3 (0%)
	AN	394 (7.2%)	57 (1%)
	BN	368 (15.2%)	3 (0.1%)
	D	-1 (0%)	-124 (-5.3%)
	C	-71 (-7.6%)	-70 (-7.5%)
	All	396 (10.5%)	-29 (-0.7%)
APR	W	215 (4.1%)	7 (0.1%)
	AN	-246 (-6.9%)	2 (0.1%)
	BN	-132 (-4.2%)	24 (0.8%)
	D	4 (0.2%)	-47 (-2.5%)
	C	71 (6.1%)	-29 (-2.3%)
	All	21 (0.6%)	-8 (-0.2%)
MAY	W	-1,462 (-23.7%)	103 (2.2%)
	AN	-881 (-22.7%)	483 (19.1%)
	BN	-512 (-17.5%)	449 (22.8%)
	D	308 (17.2%)	412 (24.5%)
	C	-180 (-15.2%)	10 (1.1%)
	All	-638 (-17.8%)	272 (10.2%)
JUN	W	-1,484 (-24.7%)	826 (22.4%)
	AN	306 (9.1%)	629 (20.8%)
	BN	688 (24%)	668 (23.2%)
	D	244 (9.7%)	154 (5.9%)
	C	-557 (-30.5%)	243 (23.7%)
	All	-336 (-9.1%)	537 (19%)
JUL	W	-534 (-13%)	-286 (-7.4%)
	AN	-48 (-1%)	-337 (-6.8%)
	BN	-750 (-15.8%)	-334 (-7.7%)
	D	-845 (-23.6%)	-411 (-13.1%)
	C	437 (24.5%)	199 (9.8%)
	All	-426 (-11.1%)	-258 (-7%)

Alternative 2A: Upstream—American River at Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	-1,358 (-38.6%)	30 (1.4%)
	AN	-773 (-30.4%)	-176 (-9.1%)
	BN	-696 (-27.9%)	-526 (-22.6%)
	D	-1,292 (-49.5%)	-300 (-18.5%)
	C	-698 (-46.5%)	-298 (-27.1%)
	All	-1,048 (-38.7%)	-215 (-11.5%)
SEP	W	-1,058 (-26.3%)	-656 (-18.1%)
	AN	-901 (-32.6%)	-181 (-8.8%)
	BN	-993 (-41.9%)	-228 (-14.2%)
	D	-679 (-36.6%)	-5 (-0.4%)
	C	-557 (-47.8%)	14 (2.4%)
	All	-868 (-32.6%)	-272 (-13.2%)
OCT	W	-246 (-14.3%)	-158 (-9.7%)
	AN	-76 (-4.5%)	-102 (-5.9%)
	BN	308 (19.2%)	143 (8.1%)
	D	-46 (-3.1%)	164 (13%)
	C	199 (13.6%)	5 (0.3%)
	All	-18 (-1.1%)	-4 (-0.2%)
NOV	W	-1,032 (-29.3%)	-117 (-4.5%)
	AN	-741 (-23.3%)	-115 (-4.5%)
	BN	-367 (-17.8%)	-16 (-0.9%)
	D	-675 (-31%)	77 (5.4%)
	C	-515 (-25.8%)	-129 (-8%)
	All	-722 (-26.7%)	-59 (-2.9%)
DEC	W	-218 (-3.5%)	-88 (-1.4%)
	AN	-215 (-6.8%)	-11 (-0.4%)
	BN	18 (0.7%)	167 (6.6%)
	D	-392 (-22.5%)	-3 (-0.2%)
	C	-115 (-7.5%)	158 (12.6%)
	All	-200 (-5.7%)	22 (0.7%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.2.1.11 American River at Confluence with Sacramento River**

2 **Table 21. Mean Monthly Flows (cfs) for Model Scenarios in the American River at the Confluence with**
 3 **the Sacramento River, Year-Round**

Alternative 2A: Upstream—American River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LLТ
JAN	W	8,748	10,960	10,936
	AN	4,806	5,760	5,766
	BN	2,326	1,988	1,947
	D	1,654	1,424	1,360
	C	1,403	1,008	1,154
	All	4,443	5,118	5,111
FEB	W	9,183	10,947	10,951
	AN	6,422	8,073	8,167
	BN	4,309	4,888	4,920
	D	1,781	1,756	1,882
	C	1,119	921	960
	All	5,142	6,007	6,061
MAR	W	5,979	6,837	6,834
	AN	5,364	5,661	5,718
	BN	2,340	2,672	2,675
	D	2,121	2,224	2,099
	C	864	836	778
	All	3,672	4,063	4,035
APR	W	5,156	5,300	5,306
	AN	3,383	3,079	3,080
	BN	2,984	2,778	2,801
	D	1,672	1,677	1,630
	C	996	1,059	1,031
	All	3,152	3,128	3,120
MAY	W	5,959	4,332	4,435
	AN	3,700	2,285	2,768
	BN	2,733	1,726	2,175
	D	1,605	1,454	1,867
	C	1,014	790	800
	All	3,398	2,438	2,710
JUN	W	5,743	3,388	4,214
	AN	3,103	2,736	3,360
	BN	2,631	2,603	3,267
	D	2,282	2,320	2,470
	C	1,621	793	1,036
	All	3,462	2,545	3,079
JUL	W	3,844	3,560	3,267
	AN	4,399	4,635	4,293
	BN	4,509	4,038	3,699
	D	3,347	2,858	2,446
	C	1,568	1,784	1,980
	All	3,597	3,385	3,122

Alternative 2A: Upstream—American River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL
AUG	W	3,295	1,858	1,891
	AN	2,313	1,663	1,490
	BN	2,265	2,048	1,525
	D	2,395	1,357	1,061
	C	1,314	899	605
	All	2,488	1,612	1,399
SEP	W	3,846	3,415	2,758
	AN	2,594	1,838	1,659
	BN	2,205	1,402	1,179
	D	1,691	987	984
	C	1,011	427	447
	All	2,495	1,870	1,600
OCT	W	1,607	1,499	1,343
	AN	1,597	1,613	1,506
	BN	1,472	1,617	1,770
	D	1,344	1,114	1,282
	C	1,342	1,517	1,522
	All	1,486	1,454	1,453
NOV	W	3,472	2,540	2,424
	AN	3,100	2,455	2,341
	BN	1,990	1,618	1,600
	D	2,094	1,326	1,401
	C	1,897	1,489	1,360
	All	2,632	1,950	1,891
DEC	W	6,255	6,115	6,028
	AN	3,072	2,856	2,846
	BN	2,609	2,445	2,618
	D	1,675	1,275	1,272
	C	1,443	1,158	1,317
	All	3,457	3,224	3,247

1 **Table 22. Differences^a (Percent Differences) between Pairs of Model Scenarios in the American River**
 2 **at the Confluence with the Sacramento River, Year-Round**

Alternative 2A: Upstream—American River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
JAN	W	2,188 (25%)	-24 (-0.2%)
	AN	961 (20%)	6 (0.1%)
	BN	-379 (-16.3%)	-41 (-2.1%)
	D	-294 (-17.8%)	-64 (-4.5%)
	C	-249 (-17.8%)	146 (14.5%)
	All	669 (15.1%)	-6 (-0.1%)
FEB	W	1,768 (19.3%)	4 (0%)
	AN	1,745 (27.2%)	95 (1.2%)
	BN	611 (14.2%)	31 (0.6%)
	D	102 (5.7%)	127 (7.2%)
	C	-158 (-14.2%)	39 (4.3%)
	All	919 (17.9%)	54 (0.9%)
MAR	W	854 (14.3%)	-3 (0%)
	AN	353 (6.6%)	56 (1%)
	BN	336 (14.4%)	3 (0.1%)
	D	-22 (-1%)	-125 (-5.6%)
	C	-86 (-10%)	-58 (-6.9%)
	All	363 (9.9%)	-28 (-0.7%)
APR	W	151 (2.9%)	7 (0.1%)
	AN	-303 (-8.9%)	1 (0%)
	BN	-182 (-6.1%)	23 (0.8%)
	D	-42 (-2.5%)	-46 (-2.8%)
	C	35 (3.6%)	-28 (-2.7%)
	All	-32 (-1%)	-8 (-0.3%)
MAY	W	-1,524 (-25.6%)	103 (2.4%)
	AN	-931 (-25.2%)	483 (21.1%)
	BN	-558 (-20.4%)	449 (26%)
	D	262 (16.3%)	413 (28.4%)
	C	-213 (-21%)	10 (1.3%)
	All	-688 (-20.3%)	272 (11.2%)
JUN	W	-1,529 (-26.6%)	825 (24.3%)
	AN	257 (8.3%)	625 (22.8%)
	BN	636 (24.2%)	664 (25.5%)
	D	188 (8.2%)	150 (6.4%)
	C	-586 (-36.1%)	243 (30.6%)
	All	-383 (-11.1%)	535 (21%)
JUL	W	-577 (-15%)	-293 (-8.2%)
	AN	-106 (-2.4%)	-343 (-7.4%)
	BN	-810 (-18%)	-340 (-8.4%)
	D	-901 (-26.9%)	-412 (-14.4%)
	C	412 (26.3%)	196 (11%)
	All	-474 (-13.2%)	-263 (-7.8%)

Alternative 2A: Upstream—American River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
AUG	W	-1,404 (-42.6%)	33 (1.8%)
	AN	-823 (-35.6%)	-173 (-10.4%)
	BN	-739 (-32.7%)	-523 (-25.5%)
	D	-1,334 (-55.7%)	-295 (-21.8%)
	C	-709 (-54%)	-295 (-32.8%)
	All	-1,088 (-43.7%)	-212 (-13.2%)
SEP	W	-1,087 (-28.3%)	-657 (-19.2%)
	AN	-935 (-36.1%)	-179 (-9.7%)
	BN	-1,026 (-46.5%)	-223 (-15.9%)
	D	-706 (-41.8%)	-3 (-0.3%)
	C	-563 (-55.7%)	20 (4.8%)
	All	-894 (-35.9%)	-270 (-14.4%)
OCT	W	-265 (-16.5%)	-156 (-10.4%)
	AN	-91 (-5.7%)	-106 (-6.6%)
	BN	298 (20.2%)	153 (9.5%)
	D	-62 (-4.6%)	168 (15.1%)
	C	180 (13.4%)	5 (0.3%)
	All	-33 (-2.3%)	-1 (-0.1%)
NOV	W	-1,048 (-30.2%)	-115 (-4.5%)
	AN	-759 (-24.5%)	-113 (-4.6%)
	BN	-389 (-19.6%)	-18 (-1.1%)
	D	-693 (-33.1%)	75 (5.7%)
	C	-536 (-28.3%)	-129 (-8.6%)
	All	-740 (-28.1%)	-58 (-3%)
DEC	W	-227 (-3.6%)	-87 (-1.4%)
	AN	-225 (-7.3%)	-10 (-0.3%)
	BN	9 (0.3%)	172 (7%)
	D	-403 (-24%)	-3 (-0.2%)
	C	-126 (-8.8%)	159 (13.7%)
	All	-210 (-6.1%)	23 (0.7%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.2.1.12 Stanislaus River at the Confluence with the San Joaquin River**

2 **Table 23. Mean Monthly Flows (cfs) for Model Scenarios in the Stanislaus River at the Confluence with**
 3 **the San Joaquin River, Year-Round**

Alternative 2A: Upstream—Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT^a	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	956	885	885
	AN	843	963	963
	BN	416	369	369
	D	403	366	366
	C	314	265	265
	All	635	615	615
FEB	W	1,285	1,236	1,228
	AN	917	858	858
	BN	551	438	438
	D	562	359	359
	C	490	348	348
	All	827	723	721
MAR	W	2,063	2,217	2,217
	AN	1,295	956	956
	BN	732	548	548
	D	559	390	390
	C	541	444	444
	All	1,167	1,071	1,071
APR	W	2,054	1,965	1,965
	AN	1,719	1,535	1,535
	BN	1,494	1,211	1,211
	D	1,438	1,199	1,199
	C	823	670	669
	All	1,562	1,387	1,387
MAY	W	1,653	1,613	1,614
	AN	1,389	1,243	1,243
	BN	1,238	898	898
	D	1,140	916	916
	C	715	627	626
	All	1,271	1,125	1,124
JUN	W	1,608	1,763	1,761
	AN	1,134	985	984
	BN	663	568	567
	D	447	364	364
	C	332	296	292
	All	932	914	912
JUL	W	1,064	1,080	1,080
	AN	489	454	454
	BN	450	425	425
	D	398	359	360
	C	337	310	311
	All	607	590	590

Alternative 2A: Upstream—Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT^a	EXISTING CONDITIONS	NAA	A2A_LL1
AUG	W	930	717	717
	AN	476	454	454
	BN	423	418	418
	D	387	382	382
	C	341	338	339
	All	560	491	492
SEP	W	1,040	863	863
	AN	502	474	474
	BN	417	407	407
	D	395	390	390
	C	324	317	334
	All	595	533	537
OCT	W	897	845	846
	AN	873	822	825
	BN	903	844	844
	D	984	925	925
	C	689	612	609
	All	867	808	808
NOV	W	426	408	408
	AN	580	524	524
	BN	341	334	334
	D	345	321	321
	C	325	308	308
	All	410	386	386
DEC	W	512	429	439
	AN	722	697	697
	BN	331	353	353
	D	317	294	294
	C	289	272	272
	All	450	417	420

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 24. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Stanislaus River**
 2 **at the Confluence with the San Joaquin River, Year-Round**

Alternative 2A: Upstream—Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT^b	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
JAN	W	-71 (-7.4%)	0 (0%)
	AN	120 (14.3%)	0 (0%)
	BN	-47 (-11.3%)	0 (0%)
	D	-37 (-9.1%)	0 (0%)
	C	-49 (-15.5%)	0 (0%)
	All	-20 (-3.2%)	0 (0%)
FEB	W	-57 (-4.4%)	-8 (-0.6%)
	AN	-59 (-6.4%)	0 (0%)
	BN	-113 (-20.5%)	0 (0%)
	D	-203 (-36.1%)	0 (0%)
	C	-142 (-29%)	0 (0%)
	All	-106 (-12.8%)	-2 (-0.3%)
MAR	W	154 (7.5%)	0 (0%)
	AN	-339 (-26.2%)	0 (0%)
	BN	-185 (-25.2%)	0 (0%)
	D	-168 (-30.1%)	0 (0%)
	C	-97 (-17.9%)	0 (0%)
	All	-96 (-8.2%)	0 (0%)
APR	W	-89 (-4.3%)	0 (0%)
	AN	-184 (-10.7%)	0 (0%)
	BN	-283 (-18.9%)	0 (0%)
	D	-240 (-16.7%)	0 (0%)
	C	-153 (-18.6%)	0 (0%)
	All	-175 (-11.2%)	0 (0%)
MAY	W	-39 (-2.4%)	0 (0%)
	AN	-146 (-10.5%)	0 (0%)
	BN	-340 (-27.5%)	0 (0%)
	D	-224 (-19.7%)	0 (0%)
	C	-89 (-12.5%)	-1 (-0.2%)
	All	-147 (-11.6%)	0 (0%)
JUN	W	154 (9.6%)	-2 (-0.1%)
	AN	-150 (-13.2%)	-1 (-0.1%)
	BN	-96 (-14.4%)	-1 (-0.1%)
	D	-82 (-18.4%)	0 (0%)
	C	-40 (-12.1%)	-4 (-1.3%)
	All	-20 (-2.2%)	-2 (-0.2%)
JUL	W	16 (1.5%)	0 (0%)
	AN	-35 (-7.2%)	0 (0%)
	BN	-25 (-5.5%)	0 (0%)
	D	-38 (-9.7%)	0 (0.1%)
	C	-25 (-7.5%)	1 (0.3%)
	All	-17 (-2.8%)	0 (0%)

Alternative 2A: Upstream—Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT^b	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	-212 (-22.8%)	0 (0%)
	AN	-22 (-4.6%)	0 (0%)
	BN	-4 (-1%)	0 (0%)
	D	-5 (-1.2%)	0 (0%)
	C	-2 (-0.6%)	1 (0.4%)
	All	-68 (-12.2%)	0 (0.1%)
SEP	W	-177 (-17%)	0 (0%)
	AN	-28 (-5.6%)	0 (0%)
	BN	-10 (-2.4%)	0 (0%)
	D	-5 (-1.3%)	0 (0%)
	C	10 (3%)	17 (5.5%)
	All	-58 (-9.7%)	3 (0.6%)
OCT	W	-52 (-5.8%)	0 (0.1%)
	AN	-48 (-5.5%)	2 (0.3%)
	BN	-59 (-6.5%)	0 (0%)
	D	-59 (-6%)	0 (0%)
	C	-80 (-11.6%)	-3 (-0.5%)
	All	-59 (-6.8%)	0 (0%)
NOV	W	-18 (-4.3%)	0 (0%)
	AN	-56 (-9.7%)	0 (0%)
	BN	-8 (-2.3%)	0 (0%)
	D	-23 (-6.7%)	0 (0%)
	C	-16 (-5.1%)	0 (0%)
	All	-24 (-5.9%)	0 (0%)
DEC	W	-74 (-14.4%)	10 (2.2%)
	AN	-25 (-3.5%)	0 (0%)
	BN	23 (6.8%)	0 (0%)
	D	-23 (-7.3%)	0 (0%)
	C	-16 (-5.7%)	0 (0%)
	All	-30 (-6.6%)	3 (0.7%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.2.2 In Delta**

2 **11C.2.2.1 Sacramento River Downstream of North Delta Diversion Facility**

3 **Table 25. Mean Monthly Flows (cfs) for Model Scenarios for the Sacramento River Downstream of the**
 4 **North Delta Diversion Facility, Year-Round**

Alternative 2A: In Delta—Sacramento River Downstream of North Delta Diversion Facility				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	50,961	52,878	40,419
	AN	39,863	40,484	30,852
	BN	23,781	22,653	17,663
	D	17,444	17,451	14,801
	C	14,281	15,073	13,442
	All	31,971	32,595	25,562
FEB	W	57,314	59,847	46,712
	AN	45,676	47,786	36,520
	BN	31,934	31,592	23,503
	D	21,202	21,107	17,208
	C	14,708	14,291	12,905
	All	37,116	38,087	29,834
MAR	W	49,416	50,993	38,511
	AN	44,495	45,088	32,919
	BN	24,489	22,915	15,997
	D	20,656	20,650	15,698
	C	13,245	13,137	11,938
	All	32,834	33,134	24,952
APR	W	37,809	37,543	26,975
	AN	25,979	24,931	16,667
	BN	17,752	17,128	13,920
	D	12,990	12,904	11,935
	C	10,229	10,365	9,880
	All	23,169	22,826	17,434
MAY	W	31,948	24,500	17,350
	AN	21,021	18,657	14,639
	BN	14,227	12,394	12,188
	D	10,959	11,427	11,691
	C	7,749	8,011	7,612
	All	19,175	16,295	13,404
JUN	W	23,900	18,603	14,262
	AN	16,309	16,051	13,581
	BN	13,576	13,898	13,028
	D	12,222	12,656	11,879
	C	9,884	10,123	9,507
	All	16,412	14,880	12,733

Alternative 2A: In Delta—Sacramento River Downstream of North Delta Diversion Facility				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JUL	W	19,876	21,425	16,241
	AN	21,574	22,727	18,516
	BN	20,953	20,513	16,620
	D	19,272	18,957	13,125
	C	15,397	13,767	10,805
	All	19,520	19,797	15,159
AUG	W	15,816	16,064	9,536
	AN	15,877	17,491	11,496
	BN	15,643	16,232	11,431
	D	16,965	14,351	10,382
	C	10,095	8,996	8,527
	All	15,210	14,891	10,184
SEP	W	18,254	27,212	19,649
	AN	13,198	21,006	13,394
	BN	12,427	12,306	8,434
	D	12,155	8,620	8,621
	C	8,485	7,292	8,497
	All	13,751	16,763	12,821
OCT	W	13,505	13,277	10,130
	AN	11,118	11,864	10,490
	BN	11,557	12,124	9,995
	D	10,279	10,487	9,611
	C	10,073	9,964	10,078
	All	11,613	11,776	10,038
NOV	W	19,447	19,285	13,973
	AN	15,309	15,925	11,369
	BN	12,574	13,037	9,556
	D	12,868	11,914	9,210
	C	9,633	9,295	8,308
	All	14,788	14,647	10,963
DEC	W	39,708	37,022	29,862
	AN	21,663	22,629	19,798
	BN	16,678	16,692	15,555
	D	15,442	15,159	13,998
	C	11,816	10,632	10,776
	All	23,727	22,784	19,671

1 **Table 26. Differences^a (Percent Differences) between Pairs of Model Scenarios for the Sacramento**
 2 **River Downstream of the North Delta Diversion Facility, Year-Round**

Alternative 2A: In Delta—Sacramento River Downstream of North Delta Diversion Facility			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
JAN	W	-10,542 (-20.7%)	-12,459 (-23.6%)
	AN	-9,011 (-22.6%)	-9,632 (-23.8%)
	BN	-6,118 (-25.7%)	-4,990 (-22%)
	D	-2,643 (-15.1%)	-2,650 (-15.2%)
	C	-839 (-5.9%)	-1,631 (-10.8%)
	All	-6,409 (-20%)	-7,033 (-21.6%)
FEB	W	-10,602 (-18.5%)	-13,135 (-21.9%)
	AN	-9,156 (-20%)	-11,266 (-23.6%)
	BN	-8,431 (-26.4%)	-8,089 (-25.6%)
	D	-3,994 (-18.8%)	-3,899 (-18.5%)
	C	-1,803 (-12.3%)	-1,386 (-9.7%)
	All	-7,282 (-19.6%)	-8,253 (-21.7%)
MAR	W	-10,905 (-22.1%)	-12,482 (-24.5%)
	AN	-11,576 (-26%)	-12,169 (-27%)
	BN	-8,492 (-34.7%)	-6,918 (-30.2%)
	D	-4,958 (-24%)	-4,952 (-24%)
	C	-1,307 (-9.9%)	-1,199 (-9.1%)
	All	-7,882 (-24%)	-8,182 (-24.7%)
APR	W	-10,834 (-28.7%)	-10,568 (-28.1%)
	AN	-9,312 (-35.8%)	-8,264 (-33.1%)
	BN	-3,832 (-21.6%)	-3,208 (-18.7%)
	D	-1,055 (-8.1%)	-969 (-7.5%)
	C	-349 (-3.4%)	-485 (-4.7%)
	All	-5,735 (-24.8%)	-5,392 (-23.6%)
MAY	W	-14,598 (-45.7%)	-7,150 (-29.2%)
	AN	-6,382 (-30.4%)	-4,018 (-21.5%)
	BN	-2,039 (-14.3%)	-206 (-1.7%)
	D	732 (6.7%)	264 (2.3%)
	C	-137 (-1.8%)	-399 (-5%)
	All	-5,771 (-30.1%)	-2,891 (-17.7%)
JUN	W	-9,638 (-40.3%)	-4,341 (-23.3%)
	AN	-2,728 (-16.7%)	-2,470 (-15.4%)
	BN	-548 (-4%)	-870 (-6.3%)
	D	-343 (-2.8%)	-777 (-6.1%)
	C	-377 (-3.8%)	-616 (-6.1%)
	All	-3,679 (-22.4%)	-2,147 (-14.4%)
JUL	W	-3,635 (-18.3%)	-5,184 (-24.2%)
	AN	-3,058 (-14.2%)	-4,211 (-18.5%)
	BN	-4,333 (-20.7%)	-3,893 (-19%)
	D	-6,147 (-31.9%)	-5,832 (-30.8%)
	C	-4,592 (-29.8%)	-2,962 (-21.5%)
	All	-4,361 (-22.3%)	-4,638 (-23.4%)

Alternative 2A: In Delta—Sacramento River Downstream of North Delta Diversion Facility			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
AUG	W	-6,280 (-39.7%)	-6,528 (-40.6%)
	AN	-4,381 (-27.6%)	-5,995 (-34.3%)
	BN	-4,212 (-26.9%)	-4,801 (-29.6%)
	D	-6,583 (-38.8%)	-3,969 (-27.7%)
	C	-1,568 (-15.5%)	-469 (-5.2%)
	All	-5,026 (-33%)	-4,707 (-31.6%)
SEP	W	1,395 (7.6%)	-7,563 (-27.8%)
	AN	196 (1.5%)	-7,612 (-36.2%)
	BN	-3,993 (-32.1%)	-3,872 (-31.5%)
	D	-3,534 (-29.1%)	1 (0%)
	C	12 (0.1%)	1,205 (16.5%)
	All	-930 (-6.8%)	-3,942 (-23.5%)
OCT	W	-3,375 (-25%)	-3,147 (-23.7%)
	AN	-628 (-5.6%)	-1,374 (-11.6%)
	BN	-1,562 (-13.5%)	-2,129 (-17.6%)
	D	-668 (-6.5%)	-876 (-8.4%)
	C	5 (0%)	114 (1.1%)
	All	-1,575 (-13.6%)	-1,738 (-14.8%)
NOV	W	-5,474 (-28.1%)	-5,312 (-27.5%)
	AN	-3,940 (-25.7%)	-4,556 (-28.6%)
	BN	-3,018 (-24%)	-3,481 (-26.7%)
	D	-3,658 (-28.4%)	-2,704 (-22.7%)
	C	-1,325 (-13.8%)	-987 (-10.6%)
	All	-3,825 (-25.9%)	-3,684 (-25.2%)
DEC	W	-9,846 (-24.8%)	-7,160 (-19.3%)
	AN	-1,865 (-8.6%)	-2,831 (-12.5%)
	BN	-1,123 (-6.7%)	-1,137 (-6.8%)
	D	-1,444 (-9.4%)	-1,161 (-7.7%)
	C	-1,040 (-8.8%)	144 (1.4%)
	All	-4,056 (-17.1%)	-3,113 (-13.7%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.2.2.2 Sacramento River at Rio Vista**

2 **Table 27. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Rio Vista,**
 3 **Year-Round**

Alternative 2A: In Delta—Sacramento River at Rio Vista				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	71,111	78,551	68,716
	AN	41,963	42,919	36,090
	BN	20,943	19,991	17,296
	D	14,895	14,927	13,237
	C	11,853	12,601	11,589
	All	37,268	39,721	34,624
FEB	W	80,958	89,989	80,937
	AN	52,542	55,363	48,579
	BN	30,159	29,442	24,564
	D	19,320	19,422	16,954
	C	12,247	11,956	11,220
	All	44,541	47,675	42,330
MAR	W	63,763	68,663	59,808
	AN	46,750	48,513	40,734
	BN	20,980	19,562	14,764
	D	17,656	17,679	14,510
	C	10,710	10,684	10,049
	All	36,084	37,655	32,101
APR	W	38,214	38,422	31,360
	AN	22,726	21,855	16,132
	BN	14,652	14,207	11,952
	D	10,331	10,299	9,676
	C	7,665	7,816	7,499
	All	21,333	21,211	17,566
MAY	W	26,933	20,046	13,940
	AN	17,008	14,948	11,545
	BN	10,924	9,355	9,257
	D	8,135	8,564	8,883
	C	5,305	5,554	5,304
	All	15,456	12,833	10,416
JUN	W	16,557	11,418	7,896
	AN	9,887	9,220	7,078
	BN	7,001	7,241	6,681
	D	6,020	6,335	5,848
	C	4,333	4,513	4,163
	All	9,847	8,257	6,573
JUL	W	11,125	12,181	8,299
	AN	12,128	12,927	9,931
	BN	11,686	11,357	8,620
	D	10,523	10,307	6,498
	C	7,736	6,596	4,574
	All	10,739	10,921	7,652

Alternative 2A: In Delta—Sacramento River at Rio Vista				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL2
AUG	W	8,507	8,650	4,041
	AN	8,538	9,648	5,391
	BN	8,371	8,753	5,371
	D	9,264	7,417	4,645
	C	4,390	3,615	3,415
	All	8,052	7,806	4,507
SEP	W	10,767	21,199	11,639
	AN	6,788	12,832	7,001
	BN	6,283	6,197	3,539
	D	6,116	3,644	3,701
	C	3,588	2,996	3,720
	All	7,348	10,896	6,676
OCT	W	8,718	8,287	5,676
	AN	6,183	7,207	5,943
	BN	6,258	6,976	5,632
	D	5,312	5,727	5,274
	C	5,215	4,969	5,496
	All	6,667	6,858	5,593
NOV	W	15,829	15,879	11,172
	AN	11,333	12,156	8,096
	BN	8,184	9,071	5,946
	D	8,733	8,061	5,728
	C	5,473	5,565	4,674
	All	10,793	10,946	7,684
DEC	W	43,367	40,431	36,394
	AN	19,040	19,936	18,003
	BN	13,987	14,049	13,530
	D	11,999	11,687	11,101
	C	8,131	7,186	7,660
	All	22,749	21,753	20,042

1 **Table 28. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento**
 2 **River at Rio Vista, Year-Round**

Alternative 2A: In Delta—Sacramento River at Rio Vista			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
JAN	W	-2,395 (-3.4%)	-9,835 (-12.5%)
	AN	-5,873 (-14%)	-6,829 (-15.9%)
	BN	-3,647 (-17.4%)	-2,695 (-13.5%)
	D	-1,658 (-11.1%)	-1,690 (-11.3%)
	C	-264 (-2.2%)	-1,012 (-8%)
	All	-2,644 (-7.1%)	-5,097 (-12.8%)
FEB	W	-21 (0%)	-9,052 (-10.1%)
	AN	-3,963 (-7.5%)	-6,783 (-12.3%)
	BN	-5,595 (-18.6%)	-4,878 (-16.6%)
	D	-2,365 (-12.2%)	-2,468 (-12.7%)
	C	-1,027 (-8.4%)	-736 (-6.2%)
	All	-2,211 (-5%)	-5,345 (-11.2%)
MAR	W	-3,955 (-6.2%)	-8,854 (-12.9%)
	AN	-6,017 (-12.9%)	-7,779 (-16%)
	BN	-6,216 (-29.6%)	-4,798 (-24.5%)
	D	-3,146 (-17.8%)	-3,169 (-17.9%)
	C	-661 (-6.2%)	-635 (-5.9%)
	All	-3,983 (-11%)	-5,554 (-14.7%)
APR	W	-6,854 (-17.9%)	-7,062 (-18.4%)
	AN	-6,594 (-29%)	-5,722 (-26.2%)
	BN	-2,700 (-18.4%)	-2,255 (-15.9%)
	D	-655 (-6.3%)	-622 (-6%)
	C	-166 (-2.2%)	-318 (-4.1%)
	All	-3,767 (-17.7%)	-3,645 (-17.2%)
MAY	W	-12,993 (-48.2%)	-6,106 (-30.5%)
	AN	-5,463 (-32.1%)	-3,403 (-22.8%)
	BN	-1,667 (-15.3%)	-98 (-1%)
	D	748 (9.2%)	319 (3.7%)
	C	-1 (0%)	-250 (-4.5%)
	All	-5,039 (-32.6%)	-2,417 (-18.8%)
JUN	W	-8,661 (-52.3%)	-3,522 (-30.8%)
	AN	-2,809 (-28.4%)	-2,142 (-23.2%)
	BN	-320 (-4.6%)	-560 (-7.7%)
	D	-172 (-2.9%)	-488 (-7.7%)
	C	-169 (-3.9%)	-350 (-7.7%)
	All	-3,275 (-33.3%)	-1,684 (-20.4%)
JUL	W	-2,826 (-25.4%)	-3,882 (-31.9%)
	AN	-2,197 (-18.1%)	-2,996 (-23.2%)
	BN	-3,066 (-26.2%)	-2,737 (-24.1%)
	D	-4,025 (-38.3%)	-3,809 (-37%)
	C	-3,162 (-40.9%)	-2,023 (-30.7%)
	All	-3,087 (-28.7%)	-3,269 (-29.9%)

Alternative 2A: In Delta—Sacramento River at Rio Vista			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
AUG	W	-4,466 (-52.5%)	-4,609 (-53.3%)
	AN	-3,147 (-36.9%)	-4,257 (-44.1%)
	BN	-3,000 (-35.8%)	-3,382 (-38.6%)
	D	-4,620 (-49.9%)	-2,772 (-37.4%)
	C	-975 (-22.2%)	-200 (-5.5%)
	All	-3,546 (-44%)	-3,299 (-42.3%)
SEP	W	872 (8.1%)	-9,560 (-45.1%)
	AN	213 (3.1%)	-5,831 (-45.4%)
	BN	-2,744 (-43.7%)	-2,658 (-42.9%)
	D	-2,415 (-39.5%)	57 (1.6%)
	C	132 (3.7%)	724 (24.2%)
	All	-672 (-9.1%)	-4,220 (-38.7%)
OCT	W	-3,042 (-34.9%)	-2,611 (-31.5%)
	AN	-240 (-3.9%)	-1,265 (-17.5%)
	BN	-626 (-10%)	-1,344 (-19.3%)
	D	-38 (-0.7%)	-453 (-7.9%)
	C	281 (5.4%)	527 (10.6%)
	All	-1,074 (-16.1%)	-1,265 (-18.4%)
NOV	W	-4,657 (-29.4%)	-4,707 (-29.6%)
	AN	-3,236 (-28.6%)	-4,059 (-33.4%)
	BN	-2,238 (-27.3%)	-3,125 (-34.4%)
	D	-3,004 (-34.4%)	-2,332 (-28.9%)
	C	-799 (-14.6%)	-891 (-16%)
	All	-3,109 (-28.8%)	-3,262 (-29.8%)
DEC	W	-6,973 (-16.1%)	-4,037 (-10%)
	AN	-1,037 (-5.4%)	-1,933 (-9.7%)
	BN	-458 (-3.3%)	-520 (-3.7%)
	D	-898 (-7.5%)	-586 (-5%)
	C	-472 (-5.8%)	474 (6.6%)
	All	-2,707 (-11.9%)	-1,711 (-7.9%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.2.2.3 OMR Flow (Old and Middle Rivers)**

2 **Table 29. Mean Monthly Flows (cfs) for Model Scenarios in the Old and Middle Rivers, Year-Round**

Alternative 2A: In Delta—OMR Flow (Old and Middle Rivers)				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL
JAN	W	-1,820	-1,606	3,921
	AN	-3,553	-3,446	370
	BN	-4,240	-3,803	-2,333
	D	-4,664	-4,675	-2,729
	C	-4,130	-3,684	-2,328
	All	-3,449	-3,228	-40
FEB	W	-2,365	-2,293	5,529
	AN	-3,274	-3,147	1,323
	BN	-3,437	-3,290	-1,215
	D	-3,986	-3,502	-2,863
	C	-3,191	-3,047	-2,746
	All	-3,158	-2,964	709
MAR	W	-1,600	-1,454	6,044
	AN	-4,251	-3,815	1,821
	BN	-4,147	-3,834	-1,752
	D	-2,852	-2,614	-2,335
	C	-2,010	-1,636	-1,652
	All	-2,758	-2,487	1,129
APR	W	2,431	2,415	3,148
	AN	1,058	787	618
	BN	677	214	-650
	D	-268	-615	-1,216
	C	-950	-845	-1,196
	All	843	659	536
MAY	W	1,651	1,555	2,741
	AN	509	396	304
	BN	272	-237	-681
	D	-647	-1,010	-1,231
	C	-1,020	-911	-1,007
	All	353	155	380
JUN	W	-4,164	-4,369	-818
	AN	-4,761	-4,454	-2,420
	BN	-4,154	-3,420	-2,241
	D	-3,301	-2,592	-1,974
	C	-2,250	-2,143	-1,994
	All	-3,780	-3,504	-1,721
JUL	W	-8,959	-8,699	-5,831
	AN	-9,919	-7,962	-6,768
	BN	-10,853	-9,942	-7,235
	D	-10,891	-9,505	-5,150
	C	-8,058	-5,234	-2,774
	All	-9,715	-8,473	-5,611

Alternative 2A: In Delta—OMR Flow (Old and Middle Rivers)				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
AUG	W	-10,062	-10,518	-4,636
	AN	-10,348	-10,985	-5,883
	BN	-10,044	-9,374	-5,765
	D	-10,122	-7,259	-4,334
	C	-4,384	-3,192	-3,173
	All	-9,283	-8,604	-4,731
SEP	W	-9,317	-7,580	918
	AN	-9,163	-9,002	-495
	BN	-8,575	-8,392	-4,639
	D	-8,081	-5,165	-4,068
	C	-4,807	-3,966	-2,099
	All	-8,236	-6,868	-1,773
OCT	W	-8,347	-5,049	-1,100
	AN	-7,643	-3,648	-1,383
	BN	-7,804	-4,793	-1,045
	D	-6,961	-4,103	-1,675
	C	-6,440	-3,920	-1,871
	All	-7,568	-4,427	-1,371
NOV	W	-8,902	-6,527	-1,092
	AN	-7,264	-6,003	-1,929
	BN	-7,997	-5,542	-2,253
	D	-7,136	-5,007	-2,098
	C	-5,294	-4,389	-2,688
	All	-7,592	-5,636	-1,867
DEC	W	-5,542	-5,591	-2,306
	AN	-6,987	-7,050	-5,122
	BN	-7,304	-7,040	-6,057
	D	-7,214	-7,006	-5,827
	C	-6,166	-4,173	-4,884
	All	-6,513	-6,155	-4,509

1 **Table 30. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Old and Middle**
 2 **Rivers, Year-Round**

Alternative 2A: In Delta—OMR Flow (Old and Middle Rivers)			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
JAN	W	5,741 (315.5%)	5,527 (344.2%)
	AN	3,922 (110.4%)	3,816 (110.7%)
	BN	1,907 (45%)	1,470 (38.7%)
	D	1,935 (41.5%)	1,947 (41.6%)
	C	1,802 (43.6%)	1,357 (36.8%)
	All	3,408 (98.8%)	3,188 (98.8%)
FEB	W	7,894 (333.8%)	7,822 (341.1%)
	AN	4,597 (140.4%)	4,469 (142%)
	BN	2,222 (64.6%)	2,075 (63.1%)
	D	1,122 (28.2%)	639 (18.2%)
	C	445 (13.9%)	301 (9.9%)
	All	3,866 (122.4%)	3,673 (123.9%)
MAR	W	7,644 (477.7%)	7,497 (515.8%)
	AN	6,072 (142.8%)	5,635 (147.7%)
	BN	2,395 (57.8%)	2,083 (54.3%)
	D	518 (18.1%)	279 (10.7%)
	C	358 (17.8%)	-16 (-1%)
	All	3,887 (141%)	3,616 (145.4%)
APR	W	717 (29.5%)	733 (30.4%)
	AN	-440 (-41.6%)	-169 (-21.5%)
	BN	-1,327 (-196.1%)	-864 (-404%)
	D	-948 (-354%)	-601 (-97.7%)
	C	-246 (-25.9%)	-351 (-41.5%)
	All	-308 (-36.5%)	-123 (-18.7%)
MAY	W	1,090 (66%)	1,186 (76.3%)
	AN	-205 (-40.2%)	-91 (-23.1%)
	BN	-952 (-350.6%)	-443 (-186.7%)
	D	-585 (-90.4%)	-221 (-21.9%)
	C	13 (1.3%)	-95 (-10.5%)
	All	27 (7.6%)	224 (144.4%)
JUN	W	3,346 (80.4%)	3,552 (81.3%)
	AN	2,341 (49.2%)	2,034 (45.7%)
	BN	1,913 (46%)	1,178 (34.5%)
	D	1,326 (40.2%)	617 (23.8%)
	C	255 (11.4%)	148 (6.9%)
	All	2,059 (54.5%)	1,782 (50.9%)
JUL	W	3,128 (34.9%)	2,868 (33%)
	AN	3,151 (31.8%)	1,195 (15%)
	BN	3,617 (33.3%)	2,707 (27.2%)
	D	5,741 (52.7%)	4,355 (45.8%)
	C	5,284 (65.6%)	2,460 (47%)
	All	4,104 (42.2%)	2,862 (33.8%)

Alternative 2A: In Delta—OMR Flow (Old and Middle Rivers)			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
AUG	W	5,426 (53.9%)	5,882 (55.9%)
	AN	4,466 (43.2%)	5,102 (46.4%)
	BN	4,280 (42.6%)	3,609 (38.5%)
	D	5,788 (57.2%)	2,926 (40.3%)
	C	1,211 (27.6%)	18 (0.6%)
	All	4,553 (49%)	3,873 (45%)
SEP	W	10,235 (109.9%)	8,499 (112.1%)
	AN	8,668 (94.6%)	8,507 (94.5%)
	BN	3,937 (45.9%)	3,753 (44.7%)
	D	4,014 (49.7%)	1,097 (21.2%)
	C	2,708 (56.3%)	1,867 (47.1%)
	All	6,463 (78.5%)	5,095 (74.2%)
OCT	W	7,246 (86.8%)	3,948 (78.2%)
	AN	6,260 (81.9%)	2,265 (62.1%)
	BN	6,759 (86.6%)	3,748 (78.2%)
	D	5,286 (75.9%)	2,429 (59.2%)
	C	4,570 (71%)	2,050 (52.3%)
	All	6,197 (81.9%)	3,056 (69%)
NOV	W	7,810 (87.7%)	5,435 (83.3%)
	AN	5,335 (73.4%)	4,074 (67.9%)
	BN	5,743 (71.8%)	3,289 (59.3%)
	D	5,038 (70.6%)	2,909 (58.1%)
	C	2,606 (49.2%)	1,702 (38.8%)
	All	5,725 (75.4%)	3,769 (66.9%)
DEC	W	3,236 (58.4%)	3,286 (58.8%)
	AN	1,865 (26.7%)	1,928 (27.3%)
	BN	1,246 (17.1%)	983 (14%)
	D	1,387 (19.2%)	1,179 (16.8%)
	C	1,282 (20.8%)	-710 (-17%)
	All	2,004 (30.8%)	1,646 (26.7%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.2.2.4 Delta Outflow**

2 **Table 31. Mean Monthly Flows (cfs) for Model Scenarios at the Delta Outflow, Year-Round**

Alternative 2A: In Delta—Delta Outflow				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	85,900	94,620	89,743
	AN	49,448	51,100	47,604
	BN	22,968	22,301	21,243
	D	14,736	14,732	15,291
	C	11,343	12,651	13,294
	All	43,289	46,372	44,350
FEB	W	96,835	107,085	105,519
	AN	62,321	65,873	63,432
	BN	36,766	36,084	33,176
	D	20,915	21,461	19,767
	C	12,991	12,798	12,617
	All	52,594	56,338	54,590
MAR	W	78,956	84,471	82,842
	AN	54,171	56,737	54,465
	BN	24,029	22,467	19,914
	D	19,880	19,985	16,996
	C	11,911	12,215	11,806
	All	43,172	45,097	43,096
APR	W	54,394	54,562	48,560
	AN	31,975	30,576	24,901
	BN	21,928	20,641	18,125
	D	14,142	13,413	12,682
	C	9,053	9,294	8,890
	All	30,099	29,603	26,221
MAY	W	41,040	32,880	28,585
	AN	24,200	21,709	18,855
	BN	16,299	13,596	13,896
	D	10,487	10,375	11,047
	C	6,000	6,286	6,263
	All	22,517	19,121	17,537
JUN	W	23,451	15,640	15,593
	AN	11,801	10,676	10,806
	BN	8,004	8,943	9,575
	D	6,636	7,689	7,821
	C	5,322	5,632	5,321
	All	12,765	10,560	10,656
JUL	W	11,441	11,407	9,277
	AN	9,430	12,225	9,312
	BN	7,151	7,668	6,822
	D	5,024	6,448	5,433
	C	4,238	5,832	5,449
	All	7,951	8,984	7,459

Alternative 2A: In Delta—Delta Outflow				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
AUG	W	5,341	4,308	4,000
	AN	4,000	4,713	4,117
	BN	4,000	5,129	4,255
	D	4,829	5,348	4,571
	C	4,077	4,433	3,989
	All	4,618	4,754	4,184
SEP	W	9,569	20,078	21,496
	AN	3,672	11,581	12,799
	BN	3,445	3,428	3,327
	D	3,350	3,021	3,975
	C	3,000	3,036	5,905
	All	5,334	9,754	10,994
OCT	W	6,487	9,520	10,423
	AN	4,021	8,982	9,893
	BN	4,477	8,054	9,859
	D	4,157	7,294	8,940
	C	4,158	6,607	8,894
	All	4,931	8,276	9,700
NOV	W	14,232	15,987	15,785
	AN	9,683	11,529	10,833
	BN	5,864	8,681	8,258
	D	6,943	8,052	7,949
	C	5,045	5,725	6,032
	All	9,193	10,844	10,628
DEC	W	48,185	45,191	43,734
	AN	18,014	19,119	18,954
	BN	11,950	12,231	12,565
	D	8,884	8,828	9,207
	C	5,531	6,560	6,036
	All	22,714	22,113	21,691

1 **Table 32. Differences^a (Percent Differences) between Pairs of Model Scenarios at the Delta Outflow,**
 2 **Year-Round**

Alternative 2A: In Delta—Delta Outflow			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLТ	NAA vs. A2A_LLТ
JAN	W	3,843 (4.5%)	-4,877 (-5.2%)
	AN	-1,844 (-3.7%)	-3,496 (-6.8%)
	BN	-1,725 (-7.5%)	-1,058 (-4.7%)
	D	555 (3.8%)	559 (3.8%)
	C	1,951 (17.2%)	643 (5.1%)
	All	1,061 (2.5%)	-2,022 (-4.4%)
FEB	W	8,684 (9%)	-1,566 (-1.5%)
	AN	1,111 (1.8%)	-2,441 (-3.7%)
	BN	-3,590 (-9.8%)	-2,908 (-8.1%)
	D	-1,148 (-5.5%)	-1,694 (-7.9%)
	C	-374 (-2.9%)	-181 (-1.4%)
	All	1,996 (3.8%)	-1,748 (-3.1%)
MAR	W	3,886 (4.9%)	-1,629 (-1.9%)
	AN	294 (0.5%)	-2,272 (-4%)
	BN	-4,115 (-17.1%)	-2,553 (-11.4%)
	D	-2,884 (-14.5%)	-2,989 (-15%)
	C	-105 (-0.9%)	-409 (-3.3%)
	All	-76 (-0.2%)	-2,001 (-4.4%)
APR	W	-5,834 (-10.7%)	-6,002 (-11%)
	AN	-7,074 (-22.1%)	-5,675 (-18.6%)
	BN	-3,803 (-17.3%)	-2,516 (-12.2%)
	D	-1,460 (-10.3%)	-731 (-5.5%)
	C	-163 (-1.8%)	-404 (-4.3%)
	All	-3,878 (-12.9%)	-3,382 (-11.4%)
MAY	W	-12,455 (-30.3%)	-4,295 (-13.1%)
	AN	-5,345 (-22.1%)	-2,854 (-13.1%)
	BN	-2,403 (-14.7%)	300 (2.2%)
	D	560 (5.3%)	672 (6.5%)
	C	263 (4.4%)	-23 (-0.4%)
	All	-4,980 (-22.1%)	-1,584 (-8.3%)
JUN	W	-7,858 (-33.5%)	-47 (-0.3%)
	AN	-995 (-8.4%)	130 (1.2%)
	BN	1,571 (19.6%)	632 (7.1%)
	D	1,185 (17.9%)	132 (1.7%)
	C	-1 (0%)	-311 (-5.5%)
	All	-2,109 (-16.5%)	96 (0.9%)
JUL	W	-2,164 (-18.9%)	-2,130 (-18.7%)
	AN	-118 (-1.3%)	-2,913 (-23.8%)
	BN	-329 (-4.6%)	-846 (-11%)
	D	409 (8.1%)	-1,015 (-15.7%)
	C	1,211 (28.6%)	-383 (-6.6%)
	All	-492 (-6.2%)	-1,525 (-17%)

Alternative 2A: In Delta—Delta Outflow			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
AUG	W	-1,341 (-25.1%)	-308 (-7.2%)
	AN	117 (2.9%)	-596 (-12.7%)
	BN	255 (6.4%)	-874 (-17%)
	D	-258 (-5.3%)	-777 (-14.5%)
	C	-88 (-2.2%)	-444 (-10%)
	All	-434 (-9.4%)	-570 (-12%)
SEP	W	11,927 (124.6%)	1,418 (7.1%)
	AN	9,127 (248.6%)	1,218 (10.5%)
	BN	-118 (-3.4%)	-101 (-2.9%)
	D	625 (18.6%)	954 (31.6%)
	C	2,905 (96.8%)	2,869 (94.5%)
	All	5,660 (106.1%)	1,240 (12.7%)
OCT	W	3,936 (60.7%)	903 (9.5%)
	AN	5,872 (146%)	911 (10.1%)
	BN	5,382 (120.2%)	1,805 (22.4%)
	D	4,783 (115%)	1,646 (22.6%)
	C	4,736 (113.9%)	2,287 (34.6%)
	All	4,769 (96.7%)	1,424 (17.2%)
NOV	W	1,553 (10.9%)	-202 (-1.3%)
	AN	1,150 (11.9%)	-696 (-6%)
	BN	2,394 (40.8%)	-423 (-4.9%)
	D	1,006 (14.5%)	-103 (-1.3%)
	C	987 (19.6%)	307 (5.4%)
	All	1,435 (15.6%)	-216 (-2%)
DEC	W	-4,451 (-9.2%)	-1,457 (-3.2%)
	AN	940 (5.2%)	-165 (-0.9%)
	BN	615 (5.1%)	334 (2.7%)
	D	323 (3.6%)	379 (4.3%)
	C	505 (9.1%)	-524 (-8%)
	All	-1,023 (-4.5%)	-422 (-1.9%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.2.2.5 San Joaquin River at Vernalis**

2 **Table 33. Mean Monthly Flows (cfs) for Model Scenarios in the San Joaquin River at Vernalis,**
 3 **Year-Round**

Alternative 2A: In Delta—San Joaquin River at Vernalis				
Month	WYT^a	EXISTING CONDITIONS	NAA	A2A_LL T
JAN	W	9,089	9,681	9,689
	AN	5,447	6,011	5,968
	BN	2,326	2,220	2,182
	D	2,270	2,202	2,222
	C	1,667	1,592	1,591
	All	4,777	5,018	5,009
FEB	W	12,750	13,191	13,181
	AN	6,965	6,721	6,678
	BN	2,983	2,841	2,853
	D	2,590	2,269	2,245
	C	2,120	1,941	1,942
	All	6,388	6,361	6,348
MAR	W	14,374	15,235	15,230
	AN	6,284	6,364	6,365
	BN	2,949	2,476	2,476
	D	2,479	2,146	2,146
	C	1,813	1,688	1,688
	All	6,648	6,763	6,762
APR	W	11,955	12,457	12,462
	AN	6,014	6,042	6,043
	BN	4,490	3,922	3,923
	D	3,656	3,112	3,112
	C	1,983	1,796	1,796
	All	6,351	6,291	6,292
MAY	W	12,109	12,632	12,633
	AN	5,381	5,092	5,092
	BN	4,074	3,657	3,659
	D	3,308	2,823	2,823
	C	1,964	1,798	1,797
	All	6,148	6,069	6,069
JUN	W	11,058	6,820	6,820
	AN	2,965	2,678	2,680
	BN	2,051	1,870	1,873
	D	1,537	1,291	1,292
	C	1,020	956	956
	All	4,583	3,206	3,207
JUL	W	7,654	4,345	4,348
	AN	1,958	1,801	1,805
	BN	1,491	1,381	1,387
	D	1,295	1,100	1,101
	C	898	858	858
	All	3,239	2,184	2,186

Alternative 2A: In Delta—San Joaquin River at Vernalis				
Month	WYT^a	EXISTING CONDITIONS	NAA	A2A_LL^T
AUG	W	3,539	2,645	2,647
	AN	2,000	1,699	1,702
	BN	1,460	1,375	1,379
	D	1,375	1,225	1,226
	C	1,007	987	987
	All	2,072	1,710	1,712
SEP	W	3,519	3,127	3,128
	AN	2,355	2,164	2,166
	BN	1,829	1,748	1,750
	D	1,796	1,643	1,643
	C	1,402	1,378	1,379
	All	2,338	2,144	2,145
OCT	W	2,760	2,726	2,681
	AN	2,745	2,595	2,595
	BN	2,502	2,348	2,348
	D	2,945	2,790	2,791
	C	2,213	2,031	2,028
	All	2,639	2,515	2,502
NOV	W	2,534	2,411	2,415
	AN	3,182	3,193	3,202
	BN	2,150	1,997	1,995
	D	2,272	2,217	2,220
	C	1,968	1,898	1,898
	All	2,448	2,367	2,370
DEC	W	4,370	4,504	4,511
	AN	4,711	4,567	4,601
	BN	2,182	2,065	2,062
	D	2,129	2,166	2,153
	C	1,729	1,694	1,681
	All	3,219	3,211	3,214

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 34. Differences^a (Percent Differences) between Pairs of Model Scenarios in the San Joaquin**
 2 **River at Vernalis, Year-Round**

Alternative 2A: In Delta—San Joaquin River at Vernalis			
Month	WYT ^b	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
JAN	W	600 (6.6%)	8 (0.1%)
	AN	521 (9.6%)	-42 (-0.7%)
	BN	-144 (-6.2%)	-38 (-1.7%)
	D	-48 (-2.1%)	21 (0.9%)
	C	-76 (-4.5%)	0 (0%)
	All	232 (4.9%)	-9 (-0.2%)
FEB	W	431 (3.4%)	-10 (-0.1%)
	AN	-286 (-4.1%)	-43 (-0.6%)
	BN	-129 (-4.3%)	13 (0.4%)
	D	-345 (-13.3%)	-24 (-1.1%)
	C	-178 (-8.4%)	1 (0%)
	All	-40 (-0.6%)	-13 (-0.2%)
MAR	W	856 (6%)	-5 (0%)
	AN	80 (1.3%)	0 (0%)
	BN	-473 (-16%)	0 (0%)
	D	-333 (-13.4%)	0 (0%)
	C	-125 (-6.9%)	0 (0%)
	All	114 (1.7%)	-1 (0%)
APR	W	507 (4.2%)	5 (0%)
	AN	28 (0.5%)	0 (0%)
	BN	-567 (-12.6%)	1 (0%)
	D	-545 (-14.9%)	0 (0%)
	C	-187 (-9.4%)	0 (0%)
	All	-59 (-0.9%)	2 (0%)
MAY	W	524 (4.3%)	1 (0%)
	AN	-289 (-5.4%)	0 (0%)
	BN	-414 (-10.2%)	3 (0.1%)
	D	-485 (-14.7%)	1 (0%)
	C	-168 (-8.5%)	-1 (-0.1%)
	All	-78 (-1.3%)	1 (0%)
JUN	W	-4,238 (-38.3%)	0 (0%)
	AN	-285 (-9.6%)	2 (0.1%)
	BN	-178 (-8.7%)	3 (0.2%)
	D	-246 (-16%)	1 (0.1%)
	C	-65 (-6.3%)	0 (0%)
	All	-1,376 (-30%)	1 (0%)
JUL	W	-3,306 (-43.2%)	3 (0.1%)
	AN	-153 (-7.8%)	4 (0.2%)
	BN	-104 (-7%)	6 (0.4%)
	D	-194 (-15%)	1 (0.1%)
	C	-40 (-4.5%)	0 (0%)
	All	-1,053 (-32.5%)	3 (0.1%)

Alternative 2A: In Delta—San Joaquin River at Vernalis			
Month	WYT^b	EXISTING CONDITIONS vs. A2A_LL	NAA vs. A2A_LL
AUG	W	-892 (-25.2%)	2 (0.1%)
	AN	-299 (-14.9%)	3 (0.2%)
	BN	-81 (-5.5%)	4 (0.3%)
	D	-149 (-10.8%)	1 (0.1%)
	C	-20 (-2%)	0 (0%)
	All	-360 (-17.4%)	2 (0.1%)
SEP	W	-391 (-11.1%)	1 (0%)
	AN	-189 (-8%)	1 (0.1%)
	BN	-79 (-4.3%)	2 (0.1%)
	D	-153 (-8.5%)	0 (0%)
	C	-23 (-1.7%)	1 (0.1%)
	All	-193 (-8.2%)	1 (0.1%)
OCT	W	-79 (-2.8%)	-45 (-1.6%)
	AN	-150 (-5.4%)	0 (0%)
	BN	-154 (-6.1%)	1 (0%)
	D	-153 (-5.2%)	1 (0%)
	C	-184 (-8.3%)	-3 (-0.1%)
	All	-137 (-5.2%)	-13 (-0.5%)
NOV	W	-118 (-4.7%)	4 (0.2%)
	AN	20 (0.6%)	9 (0.3%)
	BN	-155 (-7.2%)	-1 (-0.1%)
	D	-52 (-2.3%)	2 (0.1%)
	C	-70 (-3.6%)	0 (0%)
	All	-77 (-3.2%)	3 (0.1%)
DEC	W	140 (3.2%)	7 (0.2%)
	AN	-110 (-2.3%)	34 (0.7%)
	BN	-120 (-5.5%)	-3 (-0.1%)
	D	24 (1.1%)	-13 (-0.6%)
	C	-48 (-2.8%)	-13 (-0.8%)
	All	-5 (-0.2%)	3 (0.1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.2.2.6 Mokelumne River at the Delta**

2 **Table 35. Mean Monthly Flows (cfs) for Model Scenarios in the Mokelumne River at the Delta,**
 3 **Year-Round**

Alternative 2A: In Delta—Mokelumne River at the Delta				
Month	WYT^a	EXISTING CONDITIONS	NAA	A2A_LL T
JAN	W	3,071	3,634	3,634
	AN	1,707	1,876	1,876
	BN	597	617	617
	D	495	493	493
	C	280	281	281
	All	1,460	1,660	1,660
FEB	W	3,290	3,781	3,781
	AN	2,525	2,913	2,913
	BN	1,011	1,035	1,035
	D	695	678	678
	C	426	442	442
	All	1,809	2,033	2,033
MAR	W	3,179	3,336	3,336
	AN	1,582	1,639	1,639
	BN	1,181	1,140	1,140
	D	754	691	691
	C	595	580	580
	All	1,662	1,700	1,700
APR	W	2,819	2,694	2,694
	AN	1,619	1,424	1,424
	BN	1,243	1,068	1,068
	D	623	550	550
	C	340	311	311
	All	1,503	1,384	1,384
MAY	W	3,170	2,885	2,885
	AN	1,439	1,179	1,179
	BN	976	812	812
	D	406	333	333
	C	181	170	170
	All	1,463	1,289	1,289
JUN	W	1,755	1,415	1,415
	AN	851	631	631
	BN	471	366	366
	D	93	76	76
	C	52	44	44
	All	779	616	616
JUL	W	772	469	469
	AN	347	167	167
	BN	123	70	70
	D	7	6	6
	C	3	3	3
	All	315	183	183

Alternative 2A: In Delta—Mokelumne River at the Delta				
Month	WYT^a	EXISTING CONDITIONS	NAA	A2A_LL T
AUG	W	703	346	346
	AN	328	216	216
	BN	112	71	71
	D	4	4	4
	C	2	2	2
	All	289	156	156
SEP	W	702	497	497
	AN	333	259	259
	BN	114	91	91
	D	9	9	9
	C	5	5	5
	All	291	213	213
OCT	W	161	147	147
	AN	178	180	180
	BN	154	144	144
	D	180	160	160
	C	117	123	123
	All	158	150	150
NOV	W	487	431	431
	AN	912	855	855
	BN	347	301	301
	D	380	327	327
	C	195	186	186
	All	474	429	429
DEC	W	1,504	1,732	1,732
	AN	1,411	1,628	1,628
	BN	447	472	472
	D	384	374	374
	C	204	209	209
	All	887	999	999

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 36. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Mokelumne**
 2 **River at the Delta, Year-Round**

Alternative 2A: In Delta—Mokelumne River at the Delta			
Month	WYT ^b	EXISTING CONDITIONS vs. A2A_LLТ	NAA vs. A2A_LLТ
JAN	W	563 (18.3%)	0 (0%)
	AN	169 (9.9%)	0 (0%)
	BN	21 (3.4%)	0 (0%)
	D	-2 (-0.5%)	0 (0%)
	C	1 (0.3%)	0 (0%)
	All	201 (13.8%)	0 (0%)
FEB	W	491 (14.9%)	0 (0%)
	AN	388 (15.4%)	0 (0%)
	BN	24 (2.4%)	0 (0%)
	D	-17 (-2.4%)	0 (0%)
	C	15 (3.5%)	0 (0%)
	All	223 (12.3%)	0 (0%)
MAR	W	158 (5%)	0 (0%)
	AN	57 (3.6%)	0 (0%)
	BN	-41 (-3.4%)	0 (0%)
	D	-63 (-8.3%)	0 (0%)
	C	-15 (-2.5%)	0 (0%)
	All	38 (2.3%)	0 (0%)
APR	W	-125 (-4.4%)	0 (0%)
	AN	-194 (-12%)	0 (0%)
	BN	-175 (-14.1%)	0 (0%)
	D	-73 (-11.7%)	0 (0%)
	C	-29 (-8.7%)	0 (0%)
	All	-120 (-8%)	0 (0%)
MAY	W	-284 (-9%)	0 (0%)
	AN	-260 (-18.1%)	0 (0%)
	BN	-164 (-16.8%)	0 (0%)
	D	-72 (-17.8%)	0 (0%)
	C	-11 (-6.1%)	0 (0%)
	All	-174 (-11.9%)	0 (0%)
JUN	W	-339 (-19.3%)	0 (0%)
	AN	-220 (-25.8%)	0 (0%)
	BN	-105 (-22.3%)	0 (0%)
	D	-17 (-18.8%)	0 (0%)
	C	-8 (-14.7%)	0 (0%)
	All	-163 (-20.9%)	0 (0%)
JUL	W	-303 (-39.3%)	0 (0%)
	AN	-180 (-51.8%)	0 (0%)
	BN	-54 (-43.4%)	0 (0%)
	D	0 (-3.1%)	0 (0%)
	C	0 (-4.4%)	0 (0%)
	All	-132 (-42%)	0 (0%)

Alternative 2A: In Delta—Mokelumne River at the Delta			
Month	WYT^b	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
AUG	W	-357 (-50.8%)	0 (0%)
	AN	-113 (-34.3%)	0 (0%)
	BN	-41 (-36.5%)	0 (0%)
	D	0 (-0.5%)	0 (0%)
	C	0 (-3.1%)	0 (0%)
	All	-133 (-46.1%)	0 (0%)
SEP	W	-205 (-29.3%)	0 (0%)
	AN	-74 (-22.2%)	0 (0%)
	BN	-23 (-20.5%)	0 (0%)
	D	-1 (-5.9%)	0 (0%)
	C	0 (4.6%)	0 (0%)
	All	-78 (-26.9%)	0 (0%)
OCT	W	-14 (-8.7%)	0 (0%)
	AN	2 (1.1%)	0 (0%)
	BN	-10 (-6.6%)	0 (0%)
	D	-20 (-11.1%)	0 (0%)
	C	6 (4.7%)	0 (0%)
	All	-7 (-4.7%)	0 (0%)
NOV	W	-56 (-11.5%)	0 (0%)
	AN	-57 (-6.3%)	0 (0%)
	BN	-46 (-13.2%)	0 (0%)
	D	-53 (-13.9%)	0 (0%)
	C	-9 (-4.6%)	0 (0%)
	All	-45 (-9.5%)	0 (0%)
DEC	W	228 (15.2%)	0 (0%)
	AN	217 (15.4%)	0 (0%)
	BN	25 (5.5%)	0 (0%)
	D	-10 (-2.6%)	0 (0%)
	C	6 (2.9%)	0 (0%)
	All	113 (12.7%)	0 (0%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.3 Alternative 3**

2 **11C.3.1 Upstream**

3 **11C.3.1.1 Sacramento River at Keswick**

4 **Table 1. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Keswick,**
 5 **Year-Round**

Alternative 3: Upstream—Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL
JAN	W	16,526	18,233	18,760
	AN	8,318	8,205	8,054
	BN	4,502	4,184	5,344
	D	3,996	4,096	4,237
	C	3,490	4,238	3,689
	All	8,614	9,215	9,509
FEB	W	18,577	20,853	21,163
	AN	14,409	15,297	15,935
	BN	5,981	5,544	6,636
	D	3,684	3,410	3,761
	C	3,599	3,372	3,341
	All	10,355	11,039	11,490
MAR	W	16,200	17,065	17,207
	AN	9,131	8,818	8,788
	BN	5,200	4,318	4,868
	D	3,903	3,814	3,747
	C	3,487	3,583	3,945
	All	8,728	8,800	8,973
APR	W	9,418	9,131	9,089
	AN	6,182	5,536	6,062
	BN	5,426	5,009	5,684
	D	5,803	5,533	5,886
	C	6,472	6,550	6,709
	All	7,038	6,733	7,013
MAY	W	9,508	7,149	7,824
	AN	7,709	7,783	8,823
	BN	7,193	6,272	7,481
	D	7,349	7,681	8,971
	C	6,715	7,316	7,567
	All	7,967	7,233	8,126
JUN	W	10,375	10,274	11,605
	AN	11,147	12,032	13,622
	BN	10,758	10,947	11,535
	D	11,224	11,898	12,202
	C	10,392	11,350	11,829
	All	10,742	11,160	12,052

Alternative 3: Upstream—Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JUL	W	12,779	14,098	14,236
	AN	14,056	15,098	14,721
	BN	12,965	13,177	12,706
	D	13,302	13,727	12,516
	C	12,849	11,935	11,459
	All	13,123	13,689	13,262
AUG	W	11,029	10,491	10,327
	AN	10,449	11,641	10,634
	BN	10,139	10,261	9,373
	D	10,627	10,986	9,019
	C	9,473	7,348	6,947
	All	10,476	10,269	9,427
SEP	W	9,385	12,833	7,066
	AN	5,862	9,898	6,412
	BN	5,492	5,601	5,251
	D	5,985	4,469	4,651
	C	5,563	4,368	5,194
	All	6,899	8,094	5,857
OCT	W	6,886	7,034	7,984
	AN	7,145	7,152	8,802
	BN	6,396	7,072	8,371
	D	6,128	6,494	7,926
	C	5,902	5,752	7,851
	All	6,530	6,752	8,138
NOV	W	6,672	7,539	6,096
	AN	6,224	7,134	4,524
	BN	5,088	5,936	4,211
	D	5,669	5,406	4,475
	C	4,822	4,710	4,233
	All	5,845	6,324	4,916
DEC	W	12,766	11,022	11,856
	AN	5,531	5,377	5,276
	BN	5,413	5,195	5,523
	D	4,215	3,936	4,695
	C	3,828	3,582	3,688
	All	7,267	6,557	7,044

1 **Table 2. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Keswick, Year-Round**

Alternative 3: Upstream—Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1T	NAA vs. A3_LL1T
JAN	W	2,234 (13.5%)	527 (2.9%)
	AN	-263 (-3.2%)	-151 (-1.8%)
	BN	842 (18.7%)	1,160 (27.7%)
	D	242 (6.1%)	142 (3.5%)
	C	199 (5.7%)	-549 (-13%)
	All	896 (10.4%)	294 (3.2%)
FEB	W	2,586 (13.9%)	309 (1.5%)
	AN	1,525 (10.6%)	638 (4.2%)
	BN	655 (11%)	1,092 (19.7%)
	D	77 (2.1%)	351 (10.3%)
	C	-258 (-7.2%)	-31 (-0.9%)
	All	1,134 (11%)	450 (4.1%)
MAR	W	1,007 (6.2%)	141 (0.8%)
	AN	-343 (-3.8%)	-29 (-0.3%)
	BN	-332 (-6.4%)	550 (12.7%)
	D	-156 (-4%)	-67 (-1.7%)
	C	458 (13.1%)	362 (10.1%)
	All	245 (2.8%)	173 (2%)
APR	W	-329 (-3.5%)	-42 (-0.5%)
	AN	-120 (-1.9%)	526 (9.5%)
	BN	257 (4.7%)	675 (13.5%)
	D	84 (1.4%)	353 (6.4%)
	C	237 (3.7%)	159 (2.4%)
	All	-25 (-0.4%)	280 (4.2%)
MAY	W	-1,684 (-17.7%)	674 (9.4%)
	AN	1,114 (14.5%)	1,040 (13.4%)
	BN	288 (4%)	1,210 (19.3%)
	D	1,622 (22.1%)	1,289 (16.8%)
	C	851 (12.7%)	251 (3.4%)
	All	159 (2%)	892 (12.3%)
JUN	W	1,229 (11.8%)	1,330 (12.9%)
	AN	2,475 (22.2%)	1,591 (13.2%)
	BN	777 (7.2%)	588 (5.4%)
	D	979 (8.7%)	304 (2.6%)
	C	1,437 (13.8%)	478 (4.2%)
	All	1,310 (12.2%)	892 (8%)
JUL	W	1,457 (11.4%)	138 (1%)
	AN	665 (4.7%)	-376 (-2.5%)
	BN	-259 (-2%)	-471 (-3.6%)
	D	-786 (-5.9%)	-1,211 (-8.8%)
	C	-1,391 (-10.8%)	-476 (-4%)
	All	139 (1.1%)	-427 (-3.1%)

Alternative 3: Upstream—Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	-703 (-6.4%)	-164 (-1.6%)
	AN	186 (1.8%)	-1,006 (-8.6%)
	BN	-766 (-7.6%)	-888 (-8.7%)
	D	-1,608 (-15.1%)	-1,967 (-17.9%)
	C	-2,525 (-26.7%)	-400 (-5.4%)
	All	-1,049 (-10%)	-841 (-8.2%)
SEP	W	-2,319 (-24.7%)	-5,767 (-44.9%)
	AN	550 (9.4%)	-3,486 (-35.2%)
	BN	-242 (-4.4%)	-350 (-6.3%)
	D	-1,335 (-22.3%)	182 (4.1%)
	C	-368 (-6.6%)	826 (18.9%)
	All	-1,043 (-15.1%)	-2,237 (-27.6%)
OCT	W	1,098 (16%)	949 (13.5%)
	AN	1,657 (23.2%)	1,650 (23.1%)
	BN	1,975 (30.9%)	1,299 (18.4%)
	D	1,798 (29.3%)	1,432 (22%)
	C	1,949 (33%)	2,100 (36.5%)
	All	1,608 (24.6%)	1,386 (20.5%)
NOV	W	-576 (-8.6%)	-1,443 (-19.1%)
	AN	-1,700 (-27.3%)	-2,610 (-36.6%)
	BN	-876 (-17.2%)	-1,725 (-29.1%)
	D	-1,194 (-21.1%)	-931 (-17.2%)
	C	-590 (-12.2%)	-477 (-10.1%)
	All	-929 (-15.9%)	-1,408 (-22.3%)
DEC	W	-910 (-7.1%)	834 (7.6%)
	AN	-255 (-4.6%)	-102 (-1.9%)
	BN	110 (2%)	328 (6.3%)
	D	481 (11.4%)	759 (19.3%)
	C	-141 (-3.7%)	105 (2.9%)
	All	-222 (-3.1%)	488 (7.4%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.3.1.2 Sacramento River Upstream of Red Bluff**

2 **Table 3. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River Upstream of Red**
 3 **Bluff, Year-Round**

Alternative 3: Upstream—Sacramento River Upstream of Red Bluff				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	28,036	30,390	30,907
	AN	16,725	16,885	16,730
	BN	9,381	9,146	10,298
	D	7,098	7,262	7,396
	C	6,143	6,942	6,405
	All	15,396	16,278	16,567
FEB	W	30,255	33,472	33,775
	AN	23,492	24,828	25,463
	BN	12,005	11,614	12,696
	D	8,947	8,790	9,139
	C	6,599	6,378	6,343
	All	18,010	19,092	19,537
MAR	W	25,004	26,210	26,349
	AN	16,599	16,428	16,394
	BN	9,333	8,474	9,004
	D	8,385	8,300	8,231
	C	5,999	6,101	6,466
	All	14,669	14,876	15,044
APR	W	15,172	14,842	14,797
	AN	10,477	9,761	10,285
	BN	8,711	8,282	8,951
	D	7,948	7,661	8,012
	C	7,742	7,829	7,987
	All	10,709	10,376	10,653
MAY	W	12,541	10,073	10,743
	AN	10,012	10,047	11,078
	BN	8,781	7,875	9,073
	D	8,677	9,012	10,295
	C	7,746	8,348	8,597
	All	9,979	9,208	10,095
JUN	W	11,905	11,720	13,039
	AN	12,001	12,789	14,368
	BN	11,464	11,651	12,222
	D	11,777	12,441	12,731
	C	10,885	11,881	12,317
	All	11,666	12,046	12,921
JUL	W	13,255	14,525	14,651
	AN	14,129	15,142	14,753
	BN	13,011	13,258	12,778
	D	13,368	13,826	12,610
	C	13,005	12,149	11,750
	All	13,329	13,898	13,474

Alternative 3: Upstream—Sacramento River Upstream of Red Bluff				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL
AUG	W	11,284	10,735	10,567
	AN	10,580	11,775	10,769
	BN	10,202	10,364	9,472
	D	10,747	11,143	9,178
	C	9,590	7,665	7,274
	All	10,630	10,464	9,623
SEP	W	9,856	13,312	7,544
	AN	6,279	10,320	6,840
	BN	5,821	5,963	5,617
	D	6,391	4,911	5,105
	C	5,887	4,838	5,661
	All	7,302	8,535	6,301
OCT	W	8,020	8,188	9,159
	AN	8,112	8,162	9,826
	BN	7,094	7,778	9,099
	D	6,903	7,287	8,722
	C	6,670	6,537	8,663
	All	7,432	7,675	9,078
NOV	W	9,876	10,821	9,366
	AN	8,144	9,098	6,472
	BN	6,791	7,682	5,945
	D	7,548	7,347	6,403
	C	5,811	5,703	5,222
	All	7,990	8,521	7,102
DEC	W	21,015	19,613	20,455
	AN	10,019	10,053	9,973
	BN	8,408	8,228	8,570
	D	7,292	7,091	7,859
	C	5,628	5,433	5,548
	All	11,989	11,446	11,945

1 **Table 4. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **Upstream of Red Bluff, Year-Round**

Alternative 3: Upstream—Sacramento River Upstream of Red Bluff			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	2,870 (10.2%)	517 (1.7%)
	AN	5 (0%)	-156 (-0.9%)
	BN	917 (9.8%)	1,152 (12.6%)
	D	298 (4.2%)	134 (1.8%)
	C	261 (4.3%)	-537 (-7.7%)
	All	1,171 (7.6%)	289 (1.8%)
FEB	W	3,521 (11.6%)	304 (0.9%)
	AN	1,971 (8.4%)	635 (2.6%)
	BN	691 (5.8%)	1,082 (9.3%)
	D	192 (2.1%)	349 (4%)
	C	-256 (-3.9%)	-35 (-0.5%)
	All	1,527 (8.5%)	445 (2.3%)
MAR	W	1,345 (5.4%)	139 (0.5%)
	AN	-205 (-1.2%)	-34 (-0.2%)
	BN	-328 (-3.5%)	531 (6.3%)
	D	-154 (-1.8%)	-69 (-0.8%)
	C	467 (7.8%)	364 (6%)
	All	375 (2.6%)	168 (1.1%)
APR	W	-375 (-2.5%)	-45 (-0.3%)
	AN	-192 (-1.8%)	524 (5.4%)
	BN	241 (2.8%)	669 (8.1%)
	D	63 (0.8%)	350 (4.6%)
	C	244 (3.2%)	157 (2%)
	All	-56 (-0.5%)	276 (2.7%)
MAY	W	-1,798 (-14.3%)	670 (6.7%)
	AN	1,066 (10.7%)	1,032 (10.3%)
	BN	292 (3.3%)	1,199 (15.2%)
	D	1,618 (18.6%)	1,283 (14.2%)
	C	851 (11%)	249 (3%)
	All	116 (1.2%)	886 (9.6%)
JUN	W	1,134 (9.5%)	1,319 (11.3%)
	AN	2,367 (19.7%)	1,578 (12.3%)
	BN	758 (6.6%)	572 (4.9%)
	D	954 (8.1%)	290 (2.3%)
	C	1,433 (13.2%)	436 (3.7%)
	All	1,254 (10.8%)	874 (7.3%)
JUL	W	1,396 (10.5%)	126 (0.9%)
	AN	624 (4.4%)	-388 (-2.6%)
	BN	-233 (-1.8%)	-480 (-3.6%)
	D	-758 (-5.7%)	-1,216 (-8.8%)
	C	-1,255 (-9.6%)	-400 (-3.3%)
	All	144 (1.1%)	-424 (-3.1%)

Alternative 3: Upstream—Sacramento River Upstream of Red Bluff			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	-716 (-6.3%)	-168 (-1.6%)
	AN	189 (1.8%)	-1,006 (-8.5%)
	BN	-730 (-7.2%)	-892 (-8.6%)
	D	-1,569 (-14.6%)	-1,965 (-17.6%)
	C	-2,317 (-24.2%)	-391 (-5.1%)
	All	-1,007 (-9.5%)	-841 (-8%)
SEP	W	-2,312 (-23.5%)	-5,768 (-43.3%)
	AN	560 (8.9%)	-3,481 (-33.7%)
	BN	-203 (-3.5%)	-346 (-5.8%)
	D	-1,286 (-20.1%)	194 (3.9%)
	C	-226 (-3.8%)	823 (17%)
	All	-1,001 (-13.7%)	-2,234 (-26.2%)
OCT	W	1,140 (14.2%)	971 (11.9%)
	AN	1,715 (21.1%)	1,665 (20.4%)
	BN	2,004 (28.3%)	1,321 (17%)
	D	1,819 (26.4%)	1,435 (19.7%)
	C	1,993 (29.9%)	2,127 (32.5%)
	All	1,645 (22.1%)	1,403 (18.3%)
NOV	W	-510 (-5.2%)	-1,455 (-13.4%)
	AN	-1,672 (-20.5%)	-2,626 (-28.9%)
	BN	-846 (-12.5%)	-1,737 (-22.6%)
	D	-1,145 (-15.2%)	-944 (-12.8%)
	C	-590 (-10.1%)	-482 (-8.4%)
	All	-888 (-11.1%)	-1,420 (-16.7%)
DEC	W	-560 (-2.7%)	843 (4.3%)
	AN	-47 (-0.5%)	-80 (-0.8%)
	BN	161 (1.9%)	341 (4.1%)
	D	567 (7.8%)	768 (10.8%)
	C	-80 (-1.4%)	115 (2.1%)
	All	-44 (-0.4%)	499 (4.4%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.3.1.3 Sacramento River at Wilkins Slough**

2 **Table 5. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Wilkins Slough,**
 3 **Year-Round**

Alternative 3: Upstream—Sacramento River at Wilkins Slough				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LLТ
JAN	W	19,145	19,320	19,371
	AN	17,084	16,593	17,133
	BN	12,521	12,143	13,045
	D	8,896	9,189	9,356
	C	7,858	8,586	8,080
	All	13,811	13,901	14,113
FEB	W	19,887	20,044	20,068
	AN	19,139	19,095	19,106
	BN	14,528	14,328	14,718
	D	11,520	11,473	11,891
	C	8,499	8,158	8,159
	All	15,359	15,309	15,476
MAR	W	18,223	18,323	18,384
	AN	17,696	17,537	17,695
	BN	12,208	11,534	12,048
	D	11,364	11,191	11,402
	C	8,101	8,166	8,524
	All	14,132	13,997	14,226
APR	W	13,392	13,119	13,148
	AN	10,264	9,783	10,309
	BN	7,152	6,858	7,514
	D	5,319	5,112	5,444
	C	4,164	4,331	4,442
	All	8,746	8,518	8,805
MAY	W	10,467	8,435	9,064
	AN	7,318	7,500	8,487
	BN	5,638	4,871	5,957
	D	4,669	5,088	6,331
	C	3,998	4,528	4,768
	All	6,962	6,383	7,220
JUN	W	6,503	6,435	7,664
	AN	5,781	6,530	8,023
	BN	5,243	5,628	6,079
	D	5,245	6,075	6,263
	C	5,140	6,253	6,494
	All	5,707	6,205	6,967
JUL	W	6,685	7,771	7,792
	AN	6,971	7,892	7,384
	BN	6,122	6,560	5,998
	D	6,788	7,474	6,177
	C	7,162	6,649	6,404
	All	6,723	7,353	6,868

Alternative 3: Upstream—Sacramento River at Wilkins Slough				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LLТ
AUG	W	6,287	5,537	5,355
	AN	5,498	6,610	5,613
	BN	5,138	5,462	4,501
	D	5,833	6,356	4,378
	C	5,551	4,719	4,375
	All	5,768	5,741	4,889
SEP	W	9,338	12,737	6,984
	AN	5,631	9,546	6,123
	BN	5,128	5,216	4,901
	D	5,636	4,114	4,380
	C	5,200	4,354	5,273
	All	6,658	7,866	5,680
OCT	W	7,347	7,382	8,461
	AN	6,799	6,927	8,618
	BN	5,987	6,570	7,981
	D	5,688	6,040	7,521
	C	5,642	5,572	7,727
	All	6,421	6,617	8,088
NOV	W	9,644	10,889	9,272
	AN	8,210	9,141	6,399
	BN	6,793	7,588	5,748
	D	7,407	7,227	6,226
	C	5,118	4,986	4,405
	All	7,794	8,402	6,869
DEC	W	17,881	17,257	17,675
	AN	10,809	10,755	11,142
	BN	8,505	8,258	8,752
	D	8,950	8,725	9,544
	C	6,229	5,981	6,121
	All	11,580	11,246	11,720

1 **Table 6. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Wilkins Slough, Year-Round**

Alternative 3: Upstream—Sacramento River at Wilkins Slough			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1T	NAA vs. A3_LL1T
JAN	W	227 (1.2%)	51 (0.3%)
	AN	49 (0.3%)	540 (3.3%)
	BN	524 (4.2%)	902 (7.4%)
	D	460 (5.2%)	167 (1.8%)
	C	222 (2.8%)	-506 (-5.9%)
	All	302 (2.2%)	212 (1.5%)
FEB	W	181 (0.9%)	24 (0.1%)
	AN	-33 (-0.2%)	11 (0.1%)
	BN	191 (1.3%)	391 (2.7%)
	D	371 (3.2%)	417 (3.6%)
	C	-339 (-4%)	1 (0%)
	All	117 (0.8%)	168 (1.1%)
MAR	W	162 (0.9%)	62 (0.3%)
	AN	-1 (0%)	158 (0.9%)
	BN	-160 (-1.3%)	514 (4.5%)
	D	38 (0.3%)	211 (1.9%)
	C	423 (5.2%)	358 (4.4%)
	All	94 (0.7%)	229 (1.6%)
APR	W	-244 (-1.8%)	29 (0.2%)
	AN	45 (0.4%)	526 (5.4%)
	BN	362 (5.1%)	657 (9.6%)
	D	124 (2.3%)	331 (6.5%)
	C	278 (6.7%)	111 (2.6%)
	All	59 (0.7%)	287 (3.4%)
MAY	W	-1,403 (-13.4%)	628 (7.4%)
	AN	1,169 (16%)	988 (13.2%)
	BN	319 (5.7%)	1,086 (22.3%)
	D	1,662 (35.6%)	1,244 (24.4%)
	C	770 (19.3%)	240 (5.3%)
	All	258 (3.7%)	837 (13.1%)
JUN	W	1,161 (17.9%)	1,229 (19.1%)
	AN	2,243 (38.8%)	1,494 (22.9%)
	BN	836 (15.9%)	451 (8%)
	D	1,017 (19.4%)	188 (3.1%)
	C	1,353 (26.3%)	241 (3.9%)
	All	1,260 (22.1%)	762 (12.3%)
JUL	W	1,108 (16.6%)	22 (0.3%)
	AN	413 (5.9%)	-508 (-6.4%)
	BN	-124 (-2%)	-562 (-8.6%)
	D	-610 (-9%)	-1,297 (-17.4%)
	C	-757 (-10.6%)	-245 (-3.7%)
	All	146 (2.2%)	-484 (-6.6%)

Alternative 3: Upstream—Sacramento River at Wilkins Slough			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	-932 (-14.8%)	-181 (-3.3%)
	AN	115 (2.1%)	-997 (-15.1%)
	BN	-637 (-12.4%)	-962 (-17.6%)
	D	-1,455 (-24.9%)	-1,978 (-31.1%)
	C	-1,176 (-21.2%)	-344 (-7.3%)
	All	-879 (-15.2%)	-852 (-14.8%)
SEP	W	-2,354 (-25.2%)	-5,753 (-45.2%)
	AN	492 (8.7%)	-3,422 (-35.9%)
	BN	-227 (-4.4%)	-315 (-6%)
	D	-1,256 (-22.3%)	266 (6.5%)
	C	73 (1.4%)	919 (21.1%)
	All	-978 (-14.7%)	-2,186 (-27.8%)
OCT	W	1,114 (15.2%)	1,079 (14.6%)
	AN	1,819 (26.8%)	1,691 (24.4%)
	BN	1,994 (33.3%)	1,411 (21.5%)
	D	1,833 (32.2%)	1,481 (24.5%)
	C	2,086 (37%)	2,155 (38.7%)
	All	1,668 (26%)	1,471 (22.2%)
NOV	W	-372 (-3.9%)	-1,617 (-14.9%)
	AN	-1,811 (-22.1%)	-2,742 (-30%)
	BN	-1,044 (-15.4%)	-1,839 (-24.2%)
	D	-1,181 (-15.9%)	-1,001 (-13.8%)
	C	-713 (-13.9%)	-581 (-11.6%)
	All	-925 (-11.9%)	-1,533 (-18.2%)
DEC	W	-206 (-1.2%)	418 (2.4%)
	AN	333 (3.1%)	387 (3.6%)
	BN	247 (2.9%)	494 (6%)
	D	595 (6.6%)	820 (9.4%)
	C	-108 (-1.7%)	140 (2.3%)
	All	140 (1.2%)	474 (4.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.3.1.4 Sacramento River at Verona**

2 **Table 7. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Verona,**
 3 **Year-Round**

Alternative 3: Upstream—Sacramento River at Verona				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	44,589	45,567	45,128
	AN	34,120	33,671	32,953
	BN	20,175	19,121	18,589
	D	14,756	14,782	15,126
	C	12,085	13,051	11,830
	All	27,583	27,795	27,357
FEB	W	49,892	51,326	50,301
	AN	39,162	39,749	38,461
	BN	26,429	25,341	24,762
	D	18,402	18,090	18,014
	C	12,822	12,325	11,978
	All	31,979	32,192	31,512
MAR	W	43,455	44,624	42,759
	AN	39,477	39,687	38,446
	BN	21,484	19,448	18,720
	D	17,868	17,649	17,021
	C	11,903	11,789	11,967
	All	28,888	28,877	27,868
APR	W	32,219	31,636	29,548
	AN	22,250	21,313	20,604
	BN	14,459	13,857	14,835
	D	11,113	10,903	11,939
	C	9,420	9,489	9,989
	All	19,759	19,298	18,999
MAY	W	26,193	20,229	21,326
	AN	17,079	16,002	17,987
	BN	11,451	10,534	12,794
	D	9,283	9,841	11,394
	C	7,125	7,611	7,754
	All	15,840	13,828	15,215
JUN	W	18,367	15,304	17,501
	AN	13,590	13,574	16,782
	BN	11,062	11,320	13,032
	D	10,429	10,780	10,915
	C	8,911	9,827	9,725
	All	13,295	12,576	14,049
JUL	W	16,253	17,965	15,781
	AN	17,488	18,338	15,913
	BN	16,698	16,598	13,824
	D	16,352	16,465	11,505
	C	14,476	12,457	10,487
	All	16,271	16,651	13,753

Alternative 3: Upstream—Sacramento River at Verona				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
AUG	W	12,464	14,016	11,787
	AN	13,691	15,828	12,899
	BN	13,389	14,074	11,195
	D	14,688	13,018	9,333
	C	9,207	8,085	7,546
	All	12,813	13,204	10,689
SEP	W	14,279	23,592	10,801
	AN	10,537	19,044	10,916
	BN	9,961	10,576	8,692
	D	10,542	7,664	8,185
	C	7,764	6,832	8,088
	All	11,220	14,755	9,487
OCT	W	11,503	11,232	12,627
	AN	9,381	9,890	12,190
	BN	9,867	10,146	11,575
	D	8,681	8,989	10,863
	C	8,543	8,104	11,622
	All	9,861	9,900	11,849
NOV	W	15,307	15,754	14,229
	AN	11,792	12,817	9,813
	BN	9,852	10,437	8,428
	D	10,157	9,731	8,902
	C	7,341	7,223	6,649
	All	11,565	11,846	10,314
DEC	W	33,840	31,254	30,980
	AN	17,572	18,481	19,030
	BN	13,099	13,028	13,973
	D	12,685	12,532	13,426
	C	9,770	8,627	9,493
	All	19,752	18,852	19,330

1 **Table 8. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Verona, Year-Round**

Alternative 3: Upstream—Sacramento River at Verona			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	539 (1.2%)	-439 (-1%)
	AN	-1,167 (-3.4%)	-718 (-2.1%)
	BN	-1,586 (-7.9%)	-532 (-2.8%)
	D	370 (2.5%)	345 (2.3%)
	C	-255 (-2.1%)	-1,221 (-9.4%)
	All	-227 (-0.8%)	-438 (-1.6%)
FEB	W	410 (0.8%)	-1,024 (-2%)
	AN	-701 (-1.8%)	-1,288 (-3.2%)
	BN	-1,667 (-6.3%)	-579 (-2.3%)
	D	-388 (-2.1%)	-76 (-0.4%)
	C	-844 (-6.6%)	-348 (-2.8%)
	All	-466 (-1.5%)	-680 (-2.1%)
MAR	W	-696 (-1.6%)	-1,865 (-4.2%)
	AN	-1,032 (-2.6%)	-1,242 (-3.1%)
	BN	-2,764 (-12.9%)	-728 (-3.7%)
	D	-847 (-4.7%)	-628 (-3.6%)
	C	64 (0.5%)	178 (1.5%)
	All	-1,020 (-3.5%)	-1,009 (-3.5%)
APR	W	-2,672 (-8.3%)	-2,088 (-6.6%)
	AN	-1,647 (-7.4%)	-709 (-3.3%)
	BN	376 (2.6%)	978 (7.1%)
	D	826 (7.4%)	1,036 (9.5%)
	C	569 (6%)	500 (5.3%)
	All	-759 (-3.8%)	-298 (-1.5%)
MAY	W	-4,867 (-18.6%)	1,098 (5.4%)
	AN	908 (5.3%)	1,985 (12.4%)
	BN	1,343 (11.7%)	2,260 (21.5%)
	D	2,111 (22.7%)	1,553 (15.8%)
	C	629 (8.8%)	143 (1.9%)
	All	-626 (-3.9%)	1,386 (10%)
JUN	W	-866 (-4.7%)	2,198 (14.4%)
	AN	3,191 (23.5%)	3,207 (23.6%)
	BN	1,970 (17.8%)	1,712 (15.1%)
	D	486 (4.7%)	134 (1.2%)
	C	814 (9.1%)	-101 (-1%)
	All	755 (5.7%)	1,473 (11.7%)
JUL	W	-472 (-2.9%)	-2,184 (-12.2%)
	AN	-1,575 (-9%)	-2,425 (-13.2%)
	BN	-2,874 (-17.2%)	-2,775 (-16.7%)
	D	-4,847 (-29.6%)	-4,960 (-30.1%)
	C	-3,989 (-27.6%)	-1,971 (-15.8%)
	All	-2,518 (-15.5%)	-2,898 (-17.4%)

Alternative 3: Upstream—Sacramento River at Verona			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	-677 (-5.4%)	-2,230 (-15.9%)
	AN	-792 (-5.8%)	-2,929 (-18.5%)
	BN	-2,194 (-16.4%)	-2,879 (-20.5%)
	D	-5,354 (-36.5%)	-3,684 (-28.3%)
	C	-1,661 (-18%)	-539 (-6.7%)
	All	-2,124 (-16.6%)	-2,515 (-19%)
SEP	W	-3,478 (-24.4%)	-12,791 (-54.2%)
	AN	380 (3.6%)	-8,127 (-42.7%)
	BN	-1,269 (-12.7%)	-1,884 (-17.8%)
	D	-2,357 (-22.4%)	521 (6.8%)
	C	323 (4.2%)	1,256 (18.4%)
	All	-1,734 (-15.5%)	-5,268 (-35.7%)
OCT	W	1,124 (9.8%)	1,396 (12.4%)
	AN	2,809 (29.9%)	2,300 (23.3%)
	BN	1,708 (17.3%)	1,428 (14.1%)
	D	2,182 (25.1%)	1,874 (20.9%)
	C	3,078 (36%)	3,518 (43.4%)
	All	1,989 (20.2%)	1,949 (19.7%)
NOV	W	-1,078 (-7%)	-1,526 (-9.7%)
	AN	-1,979 (-16.8%)	-3,004 (-23.4%)
	BN	-1,424 (-14.5%)	-2,009 (-19.3%)
	D	-1,255 (-12.4%)	-830 (-8.5%)
	C	-692 (-9.4%)	-574 (-7.9%)
	All	-1,251 (-10.8%)	-1,533 (-12.9%)
DEC	W	-2,861 (-8.5%)	-275 (-0.9%)
	AN	1,458 (8.3%)	550 (3%)
	BN	873 (6.7%)	945 (7.3%)
	D	741 (5.8%)	894 (7.1%)
	C	-278 (-2.8%)	865 (10%)
	All	-423 (-2.1%)	477 (2.5%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.3.1.5 Trinity River below Lewiston**2 **Table 9. Mean Monthly Flows (cfs) for Model Scenarios in the Trinity River Below Lewiston,**
3 **Year-Round**

Alternative 3: Upstream—Trinity River below Lewiston				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LLТ
JAN	W	1,440	1,518	1,484
	AN	300	300	483
	BN	358	300	383
	D	300	300	300
	C	300	287	275
	All	671	684	713
FEB	W	1,056	1,495	1,486
	AN	689	784	1,043
	BN	517	568	636
	D	300	300	300
	C	300	300	275
	All	634	795	839
MAR	W	1,209	1,385	1,402
	AN	436	519	519
	BN	319	300	300
	D	300	300	300
	C	300	300	300
	All	611	676	681
APR	W	721	844	844
	AN	469	513	458
	BN	507	504	504
	D	529	529	529
	C	575	580	580
	All	584	630	622
MAY	W	4,636	4,620	4,620
	AN	4,462	4,416	4,416
	BN	3,774	3,865	3,865
	D	3,216	3,216	3,216
	C	2,092	1,973	1,973
	All	3,779	3,766	3,766
JUN	W	3,371	3,560	3,560
	AN	2,488	3,188	3,188
	BN	1,672	1,767	1,767
	D	1,251	1,251	1,251
	C	783	783	783
	All	2,108	2,286	2,286
JUL	W	1,289	1,103	1,103
	AN	1,048	1,048	1,048
	BN	869	916	916
	D	667	667	667
	C	450	413	417
	All	923	866	867

Alternative 3: Upstream—Trinity River below Lewiston				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL
AUG	W	450	450	450
	AN	450	450	450
	BN	450	450	450
	D	450	450	450
	C	450	338	338
	All	450	434	434
SEP	W	450	450	450
	AN	450	450	450
	BN	450	450	450
	D	450	450	450
	C	450	265	278
	All	450	423	425
OCT	W	373	373	373
	AN	373	311	323
	BN	346	346	346
	D	373	346	352
	C	373	311	293
	All	368	344	345
NOV	W	489	414	385
	AN	300	275	275
	BN	300	300	300
	D	300	283	283
	C	300	225	225
	All	360	318	309
DEC	W	1,072	837	1,006
	AN	300	300	300
	BN	300	300	300
	D	300	300	283
	C	300	275	250
	All	545	466	513

1 **Table 10. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Trinity River**
 2 **Below Lewiston, Year-Round**

Alternative 3: Upstream—Trinity River below Lewiston			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	44 (3.1%)	-34 (-2.2%)
	AN	183 (60.9%)	183 (60.9%)
	BN	24 (6.7%)	83 (27.5%)
	D	0 (0%)	0 (0%)
	C	-25 (-8.3%)	-12 (-4.3%)
	All	41 (6.1%)	28 (4.1%)
FEB	W	430 (40.7%)	-9 (-0.6%)
	AN	354 (51.4%)	260 (33.1%)
	BN	120 (23.2%)	68 (12%)
	D	0 (0%)	0 (0%)
	C	-25 (-8.3%)	-25 (-8.3%)
	All	205 (32.3%)	43 (5.4%)
MAR	W	193 (16%)	17 (1.2%)
	AN	83 (19.1%)	0 (0%)
	BN	-19 (-5.8%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	70 (11.5%)	5 (0.8%)
APR	W	122 (17%)	0 (0%)
	AN	-11 (-2.3%)	-54 (-10.6%)
	BN	-3 (-0.7%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	5 (0.9%)	0 (0%)
	All	37 (6.4%)	-8 (-1.3%)
MAY	W	-16 (-0.3%)	0 (0%)
	AN	-46 (-1%)	0 (0%)
	BN	90 (2.4%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-119 (-5.7%)	0 (0%)
	All	-14 (-0.4%)	0 (0%)
JUN	W	189 (5.6%)	0 (0%)
	AN	700 (28.1%)	0 (0%)
	BN	96 (5.7%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	179 (8.5%)	0 (0%)
JUL	W	-185 (-14.4%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	47 (5.4%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-33 (-7.3%)	5 (1.1%)
	All	-56 (-6%)	1 (0.1%)

Alternative 3: Upstream—Trinity River below Lewiston			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-112 (-25%)	0 (0%)
	All	-16 (-3.7%)	0 (0%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-172 (-38.3%)	13 (4.8%)
	All	-25 (-5.6%)	2 (0.4%)
OCT	W	0 (0%)	0 (0%)
	AN	-50 (-13.4%)	12 (3.9%)
	BN	0 (0%)	0 (0%)
	D	-21 (-5.6%)	6 (1.9%)
	C	-80 (-21.4%)	-18 (-5.6%)
	All	-24 (-6.4%)	1 (0.2%)
NOV	W	-104 (-21.3%)	-29 (-7.1%)
	AN	-25 (-8.3%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	-17 (-5.6%)	0 (0%)
	C	-75 (-25%)	0 (0%)
	All	-51 (-14.2%)	-9 (-2.9%)
DEC	W	-66 (-6.1%)	169 (20.2%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	-17 (-5.5%)	-17 (-5.5%)
	C	-50 (-16.6%)	-25 (-8.9%)
	All	-32 (-5.8%)	46 (9.9%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.3.1.6 Clear Creek below Whiskeytown**2 **Table 11. Mean Monthly Flows (cfs) for Model Scenarios in Clear Creek Below Whiskeytown,**
3 **Year-Round**

Alternative 3: Upstream—Clear Creek below Whiskeytown				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	220	339	339
	AN	192	192	192
	BN	189	189	189
	D	184	192	192
	C	155	159	171
	All	193	233	235
FEB	W	220	257	257
	AN	197	196	196
	BN	189	189	189
	D	184	192	192
	C	155	168	158
	All	194	209	208
MAR	W	200	259	258
	AN	197	196	196
	BN	189	202	189
	D	186	192	192
	C	155	168	171
	All	188	212	210
APR	W	200	200	200
	AN	197	196	196
	BN	189	189	189
	D	188	192	192
	C	155	168	171
	All	189	191	191
MAY	W	277	277	277
	AN	277	277	277
	BN	263	269	269
	D	264	264	264
	C	211	224	224
	All	262	265	265
JUN	W	200	200	200
	AN	200	200	200
	BN	181	186	186
	D	180	180	180
	C	115	131	131
	All	180	183	183
JUL	W	85	85	85
	AN	85	85	85
	BN	85	85	85
	D	85	85	85
	C	85	85	98
	All	85	85	87

Alternative 3: Upstream—Clear Creek below Whiskeytown				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL
AUG	W	85	85	85
	AN	85	85	85
	BN	85	85	85
	D	85	85	85
	C	94	71	78
	All	86	83	84
SEP	W	150	150	150
	AN	150	150	150
	BN	150	150	150
	D	144	150	150
	C	133	96	83
	All	146	142	140
OCT	W	198	198	198
	AN	183	183	183
	BN	189	182	189
	D	175	183	178
	C	150	142	152
	All	182	182	183
NOV	W	198	198	198
	AN	185	182	182
	BN	184	189	189
	D	177	177	176
	C	155	145	158
	All	183	182	183
DEC	W	198	198	198
	AN	185	192	192
	BN	189	189	189
	D	177	189	189
	C	155	156	158
	All	184	187	188

1 **Table 12. Differences^a (Percent Differences) between Pairs of Model Scenarios in Clear Creek Below**
 2 **Whiskeytown, Year-Round**

Alternative 3: Upstream—Clear Creek below Whiskeytown			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	118 (53.6%)	0 (-0.1%)
	AN	0 (-0.1%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	7 (3.9%)	0 (0%)
	C	16 (10.2%)	12 (7.4%)
	All	41 (21.4%)	2 (0.7%)
FEB	W	38 (17.1%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	7 (3.9%)	0 (0%)
	C	3 (2.2%)	-10 (-5.8%)
	All	14 (7.2%)	-1 (-0.7%)
MAR	W	58 (29.2%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	-12 (-6.1%)
	D	6 (3.2%)	0 (0%)
	C	16 (10.2%)	3 (1.7%)
	All	22 (11.7%)	-2 (-0.8%)
APR	W	0 (0%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	3 (1.7%)	0 (0%)
	C	16 (10.2%)	3 (1.7%)
	All	3 (1.5%)	0 (0.2%)
MAY	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	6 (2.2%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	13 (6.2%)	0 (0%)
	All	3 (1.1%)	0 (0%)
JUN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	5 (2.6%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	16 (14.1%)	0 (0%)
	All	3 (1.8%)	0 (0%)
JUL	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	13 (15.5%)	13 (15.5%)
	All	2 (2.3%)	2 (2.3%)

Alternative 3: Upstream—Clear Creek below Whiskeytown			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1T	NAA vs. A3_LL1T
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-16 (-17.4%)	7 (10%)
	All	-2 (-2.8%)	1 (1.2%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	6 (3.8%)	0 (0%)
	C	-50 (-37.5%)	-13 (-13%)
	All	-6 (-4.2%)	-2 (-1.3%)
OCT	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	7 (4.1%)
	D	3 (1.7%)	-5 (-3%)
	C	2 (1.5%)	11 (7.5%)
	All	1 (0.5%)	2 (0.9%)
NOV	W	0 (0%)	0 (0%)
	AN	-3 (-1.8%)	0 (0%)
	BN	6 (3.1%)	0 (0%)
	D	-1 (-0.6%)	0 (-0.2%)
	C	3 (1.9%)	13 (8.6%)
	All	1 (0.4%)	2 (1%)
DEC	W	0 (0%)	0 (0%)
	AN	7 (3.6%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	12 (6.6%)	0 (0%)
	C	3 (2.2%)	3 (1.6%)
	All	4 (2.2%)	0 (0.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.3.1.7 Feather River Low-Flow Channel (Upstream of Thermalito**
 2 **Afterbay)**

3 **Table 13. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River Upstream of Thermalito**
 4 **Afterbay (Low-Flow Channel), Year-Round**

Alternative 3: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LLТ
JAN	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
FEB	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
MAR	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	797
	All	800	800	800
APR	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
MAY	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
JUN	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
JUL	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700

Alternative 3: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL T
AUG	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
SEP	W	773	773	773
	AN	773	773	773
	BN	773	773	773
	D	773	773	773
	C	773	773	773
	All	773	773	773
OCT	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
NOV	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
DEC	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800

1 **Table 14. Differences (Percent Differences) between Pairs of Model Scenarios in the Feather River**
 2 **Upstream of Thermalito Afterbay (Low-Flow Channel), Year-Round**

Alternative 3: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
FEB	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
MAR	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
APR	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
MAY	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
JUN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
JUL	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)

Alternative 3: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
OCT	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
NOV	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
DEC	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)

1 **11C.3.1.8 Feather River High-Flow Channel (at Thermalito Afterbay)**

2 **Table 15. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at Thermalito Afterbay**
 3 **(High-Flow Channel), Year-Round**

Alternative 3: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	11,257	11,896	14,347
	AN	4,434	2,838	4,175
	BN	2,640	1,441	1,679
	D	1,798	1,459	2,414
	C	1,459	1,648	1,312
	All	5,277	4,995	6,168
FEB	W	12,466	14,787	16,515
	AN	7,411	5,809	7,670
	BN	3,916	1,897	3,059
	D	1,817	1,659	2,207
	C	1,610	1,482	1,560
	All	6,340	6,444	7,594
MAR	W	12,895	14,772	15,093
	AN	7,733	8,568	10,085
	BN	3,373	1,985	2,275
	D	2,017	1,762	2,311
	C	1,697	1,634	1,846
	All	6,487	6,902	7,427
APR	W	6,472	6,408	6,442
	AN	2,251	2,170	2,351
	BN	1,205	1,203	2,049
	D	1,286	1,470	2,369
	C	1,389	1,407	1,887
	All	3,073	3,084	3,533
MAY	W	7,528	4,740	5,280
	AN	3,340	3,101	4,176
	BN	1,205	1,749	3,007
	D	1,591	2,223	2,628
	C	1,574	1,790	1,803
	All	3,661	3,005	3,639
JUN	W	5,062	4,211	5,284
	AN	3,301	3,930	5,795
	BN	2,707	3,552	4,904
	D	3,134	3,284	3,341
	C	2,695	2,666	2,570
	All	3,632	3,628	4,470
JUL	W	6,490	8,577	6,557
	AN	8,757	9,488	7,751
	BN	8,981	8,833	6,779
	D	8,294	8,099	4,501
	C	6,703	5,217	3,353
	All	7,674	8,157	5,850

Alternative 3: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LLT
AUG	W	3,308	6,228	4,552
	AN	6,042	7,346	5,586
	BN	6,295	6,868	5,216
	D	7,036	4,990	3,441
	C	2,613	2,163	2,071
	All	4,935	5,634	4,210
SEP	W	2,280	8,327	1,323
	AN	2,253	6,899	2,299
	BN	2,466	3,068	1,569
	D	2,366	1,052	1,494
	C	1,421	1,345	1,730
	All	2,201	4,601	1,605
OCT	W	3,456	3,051	3,421
	AN	2,386	2,741	3,415
	BN	3,183	2,862	2,946
	D	2,688	2,652	3,112
	C	2,472	2,102	3,536
	All	2,940	2,747	3,288
NOV	W	3,292	2,470	2,780
	AN	1,824	2,119	1,944
	BN	2,101	1,900	1,836
	D	1,859	1,664	1,937
	C	1,854	1,876	1,998
	All	2,349	2,058	2,197
DEC	W	7,157	3,948	5,987
	AN	2,951	3,344	4,499
	BN	2,176	2,102	2,907
	D	2,364	2,229	2,739
	C	2,609	1,694	2,542
	All	3,973	2,837	4,026

1 **Table 16. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Feather River at**
 2 **Thermalito Afterbay (High-Flow Channel), Year-Round**

Alternative 3: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	3,089 (27.4%)	2,451 (20.6%)
	AN	-259 (-5.8%)	1,337 (47.1%)
	BN	-961 (-36.4%)	238 (16.5%)
	D	615 (34.2%)	955 (65.4%)
	C	-147 (-10.1%)	-336 (-20.4%)
	All	891 (16.9%)	1,174 (23.5%)
FEB	W	4,049 (32.5%)	1,727 (11.7%)
	AN	260 (3.5%)	1,862 (32.1%)
	BN	-857 (-21.9%)	1,163 (61.3%)
	D	390 (21.5%)	548 (33%)
	C	-50 (-3.1%)	79 (5.3%)
	All	1,254 (19.8%)	1,150 (17.9%)
MAR	W	2,198 (17%)	321 (2.2%)
	AN	2,353 (30.4%)	1,518 (17.7%)
	BN	-1,098 (-32.5%)	291 (14.7%)
	D	295 (14.6%)	550 (31.2%)
	C	149 (8.8%)	212 (13%)
	All	940 (14.5%)	525 (7.6%)
APR	W	-30 (-0.5%)	34 (0.5%)
	AN	99 (4.4%)	180 (8.3%)
	BN	844 (70.1%)	846 (70.3%)
	D	1,083 (84.3%)	899 (61.1%)
	C	498 (35.9%)	480 (34.1%)
	All	460 (15%)	449 (14.6%)
MAY	W	-2,248 (-29.9%)	540 (11.4%)
	AN	836 (25%)	1,074 (34.6%)
	BN	1,801 (149.4%)	1,258 (72%)
	D	1,036 (65.1%)	404 (18.2%)
	C	229 (14.5%)	14 (0.8%)
	All	-22 (-0.6%)	634 (21.1%)
JUN	W	222 (4.4%)	1,073 (25.5%)
	AN	2,494 (75.5%)	1,865 (47.5%)
	BN	2,197 (81.2%)	1,352 (38.1%)
	D	207 (6.6%)	57 (1.7%)
	C	-125 (-4.6%)	-96 (-3.6%)
	All	838 (23.1%)	843 (23.2%)
JUL	W	67 (1%)	-2,020 (-23.6%)
	AN	-1,005 (-11.5%)	-1,737 (-18.3%)
	BN	-2,201 (-24.5%)	-2,053 (-23.2%)
	D	-3,793 (-45.7%)	-3,597 (-44.4%)
	C	-3,350 (-50%)	-1,864 (-35.7%)
	All	-1,825 (-23.8%)	-2,308 (-28.3%)

Alternative 3: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	1,244 (37.6%)	-1,676 (-26.9%)
	AN	-457 (-7.6%)	-1,760 (-24%)
	BN	-1,079 (-17.1%)	-1,652 (-24.1%)
	D	-3,595 (-51.1%)	-1,549 (-31%)
	C	-542 (-20.7%)	-92 (-4.3%)
	All	-725 (-14.7%)	-1,425 (-25.3%)
SEP	W	-957 (-42%)	-7,004 (-84.1%)
	AN	46 (2%)	-4,601 (-66.7%)
	BN	-897 (-36.4%)	-1,499 (-48.9%)
	D	-872 (-36.8%)	442 (42%)
	C	309 (21.7%)	385 (28.6%)
	All	-596 (-27.1%)	-2,997 (-65.1%)
OCT	W	-35 (-1%)	370 (12.1%)
	AN	1,028 (43.1%)	673 (24.6%)
	BN	-237 (-7.4%)	84 (3%)
	D	424 (15.8%)	460 (17.3%)
	C	1,065 (43.1%)	1,434 (68.2%)
	All	348 (11.8%)	541 (19.7%)
NOV	W	-513 (-15.6%)	310 (12.5%)
	AN	120 (6.6%)	-175 (-8.3%)
	BN	-266 (-12.6%)	-65 (-3.4%)
	D	77 (4.2%)	273 (16.4%)
	C	144 (7.8%)	122 (6.5%)
	All	-152 (-6.5%)	139 (6.8%)
DEC	W	-1,170 (-16.4%)	2,039 (51.6%)
	AN	1,548 (52.5%)	1,155 (34.5%)
	BN	732 (33.6%)	806 (38.3%)
	D	376 (15.9%)	510 (22.9%)
	C	-67 (-2.5%)	848 (50.1%)
	All	53 (1.3%)	1,189 (41.9%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.3.1.9 Feather River at Confluence with Sacramento River**

2 **Table 17. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at the Confluence with**
 3 **the Sacramento River, Year-Round**

Alternative 3: Upstream—Feather River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	23,533	26,106	28,552
	AN	12,430	11,953	13,291
	BN	6,499	5,575	5,821
	D	4,621	4,412	5,375
	C	3,646	3,837	3,512
	All	11,938	12,509	13,686
FEB	W	27,039	31,065	32,789
	AN	14,818	14,599	16,463
	BN	9,153	7,892	9,057
	D	4,402	4,436	4,998
	C	3,237	3,096	3,183
	All	13,744	14,761	15,915
MAR	W	24,172	26,784	27,115
	AN	19,990	21,490	23,011
	BN	8,136	6,882	7,180
	D	5,073	4,940	5,482
	C	2,933	2,756	2,983
	All	13,521	14,300	14,831
APR	W	15,897	15,852	15,897
	AN	9,832	9,585	9,771
	BN	5,401	5,189	6,044
	D	4,152	4,137	5,041
	C	3,298	3,185	3,675
	All	8,796	8,689	9,147
MAY	W	14,387	10,385	10,938
	AN	8,068	6,884	7,968
	BN	4,704	4,509	5,772
	D	3,652	3,767	4,172
	C	2,389	2,321	2,325
	All	7,697	6,237	6,876
JUN	W	10,222	7,199	8,250
	AN	6,391	5,598	7,371
	BN	4,495	4,342	5,695
	D	3,853	3,367	3,413
	C	2,782	2,522	2,319
	All	6,197	4,951	5,755
JUL	W	8,177	8,734	6,559
	AN	9,322	9,223	7,357
	BN	9,380	8,725	6,567
	D	8,290	7,674	4,014
	C	6,450	4,891	2,991
	All	8,322	8,009	5,597

Alternative 3: Upstream—Feather River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
AUG	W	4,923	7,222	5,187
	AN	7,080	8,089	6,155
	BN	7,236	7,570	5,644
	D	7,711	5,487	3,806
	C	2,841	2,340	2,190
	All	5,941	6,313	4,665
SEP	W	4,351	10,329	3,331
	AN	4,194	8,773	4,168
	BN	4,252	4,786	3,299
	D	4,179	2,848	3,189
	C	2,054	1,964	2,335
	All	3,937	6,289	3,271
OCT	W	4,176	3,746	4,148
	AN	2,630	2,988	3,676
	BN	3,754	3,437	3,528
	D	3,033	2,987	3,463
	C	2,938	2,566	4,008
	All	3,446	3,243	3,802
NOV	W	4,697	3,825	4,110
	AN	3,065	3,186	2,986
	BN	2,687	2,455	2,383
	D	2,342	2,125	2,390
	C	2,084	2,107	2,204
	All	3,216	2,873	2,994
DEC	W	12,409	10,246	12,287
	AN	5,193	6,000	7,160
	BN	3,079	3,249	4,058
	D	2,838	2,811	3,317
	C	2,975	2,054	2,910
	All	6,279	5,599	6,791

1 **Table 18. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Feather River at**
 2 **the Confluence with the Sacramento River, Year-Round**

Alternative 3: Upstream—Feather River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	5,019 (21.3%)	2,446 (9.4%)
	AN	862 (6.9%)	1,338 (11.2%)
	BN	-678 (-10.4%)	246 (4.4%)
	D	754 (16.3%)	963 (21.8%)
	C	-134 (-3.7%)	-324 (-8.5%)
	All	1,748 (14.6%)	1,177 (9.4%)
FEB	W	5,750 (21.3%)	1,724 (5.5%)
	AN	1,645 (11.1%)	1,864 (12.8%)
	BN	-96 (-1%)	1,164 (14.8%)
	D	596 (13.5%)	562 (12.7%)
	C	-54 (-1.7%)	87 (2.8%)
	All	2,170 (15.8%)	1,154 (7.8%)
MAR	W	2,943 (12.2%)	332 (1.2%)
	AN	3,020 (15.1%)	1,521 (7.1%)
	BN	-956 (-11.7%)	298 (4.3%)
	D	410 (8.1%)	543 (11%)
	C	51 (1.7%)	227 (8.2%)
	All	1,309 (9.7%)	531 (3.7%)
APR	W	0 (0%)	46 (0.3%)
	AN	-61 (-0.6%)	187 (1.9%)
	BN	643 (11.9%)	855 (16.5%)
	D	890 (21.4%)	905 (21.9%)
	C	377 (11.4%)	490 (15.4%)
	All	351 (4%)	458 (5.3%)
MAY	W	-3,449 (-24%)	553 (5.3%)
	AN	-100 (-1.2%)	1,084 (15.8%)
	BN	1,067 (22.7%)	1,263 (28%)
	D	520 (14.2%)	405 (10.7%)
	C	-63 (-2.6%)	5 (0.2%)
	All	-821 (-10.7%)	639 (10.2%)
JUN	W	-1,971 (-19.3%)	1,051 (14.6%)
	AN	980 (15.3%)	1,773 (31.7%)
	BN	1,199 (26.7%)	1,353 (31.2%)
	D	-440 (-11.4%)	46 (1.4%)
	C	-463 (-16.6%)	-203 (-8%)
	All	-441 (-7.1%)	804 (16.2%)
JUL	W	-1,617 (-19.8%)	-2,175 (-24.9%)
	AN	-1,966 (-21.1%)	-1,866 (-20.2%)
	BN	-2,813 (-30%)	-2,158 (-24.7%)
	D	-4,275 (-51.6%)	-3,660 (-47.7%)
	C	-3,460 (-53.6%)	-1,901 (-38.9%)
	All	-2,726 (-32.8%)	-2,413 (-30.1%)

Alternative 3: Upstream—Feather River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	263 (5.4%)	-2,035 (-28.2%)
	AN	-925 (-13.1%)	-1,934 (-23.9%)
	BN	-1,592 (-22%)	-1,926 (-25.4%)
	D	-3,905 (-50.6%)	-1,681 (-30.6%)
	C	-651 (-22.9%)	-150 (-6.4%)
	All	-1,276 (-21.5%)	-1,648 (-26.1%)
SEP	W	-1,021 (-23.5%)	-6,999 (-67.8%)
	AN	-27 (-0.6%)	-4,606 (-52.5%)
	BN	-952 (-22.4%)	-1,486 (-31.1%)
	D	-990 (-23.7%)	341 (12%)
	C	281 (13.7%)	371 (18.9%)
	All	-666 (-16.9%)	-3,018 (-48%)
OCT	W	-28 (-0.7%)	403 (10.8%)
	AN	1,046 (39.8%)	688 (23%)
	BN	-226 (-6%)	90 (2.6%)
	D	430 (14.2%)	476 (15.9%)
	C	1,070 (36.4%)	1,442 (56.2%)
	All	357 (10.4%)	559 (17.2%)
NOV	W	-587 (-12.5%)	285 (7.5%)
	AN	-79 (-2.6%)	-201 (-6.3%)
	BN	-304 (-11.3%)	-72 (-2.9%)
	D	48 (2%)	266 (12.5%)
	C	119 (5.7%)	96 (4.6%)
	All	-222 (-6.9%)	121 (4.2%)
DEC	W	-122 (-1%)	2,041 (19.9%)
	AN	1,967 (37.9%)	1,160 (19.3%)
	BN	979 (31.8%)	809 (24.9%)
	D	479 (16.9%)	506 (18%)
	C	-65 (-2.2%)	856 (41.6%)
	All	512 (8.2%)	1,191 (21.3%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.3.1.10 American River at Nimbus Dam**

2 **Table 19. Mean Monthly Flows (cfs) for Model Scenarios in the American River at Nimbus Dam,**
 3 **Year-Round**

Alternative 3: Upstream—American River at Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	8,806	11,036	10,985
	AN	4,833	5,805	5,812
	BN	2,392	2,073	2,358
	D	1,723	1,506	1,532
	C	1,474	1,095	1,244
	All	4,502	5,194	5,254
FEB	W	9,294	11,102	11,092
	AN	6,469	8,153	8,327
	BN	4,360	4,961	4,727
	D	1,852	1,844	1,858
	C	1,185	1,007	1,033
	All	5,218	6,112	6,102
MAR	W	6,089	6,992	6,987
	AN	5,454	5,790	5,887
	BN	2,429	2,794	2,804
	D	2,191	2,314	2,151
	C	939	938	860
	All	3,762	4,187	4,154
APR	W	5,300	5,508	5,519
	AN	3,546	3,298	3,322
	BN	3,126	2,970	3,047
	D	1,837	1,888	2,016
	C	1,156	1,255	1,237
	All	3,305	3,334	3,380
MAY	W	6,157	4,592	4,727
	AN	3,885	2,521	2,924
	BN	2,930	1,969	2,584
	D	1,790	1,686	2,156
	C	1,182	992	1,005
	All	3,587	2,676	2,988
JUN	W	6,003	3,694	4,465
	AN	3,346	3,022	3,815
	BN	2,863	2,883	3,770
	D	2,506	2,596	2,596
	C	1,824	1,025	1,122
	All	3,699	2,825	3,352
JUL	W	4,108	3,860	3,576
	AN	4,638	4,927	4,348
	BN	4,744	4,328	3,738
	D	3,577	3,143	2,712
	C	1,784	2,022	2,093
	All	3,838	3,670	3,310

Alternative 3: Upstream—American River at Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
AUG	W	3,520	2,132	2,165
	AN	2,542	1,944	1,798
	BN	2,495	2,324	1,620
	D	2,613	1,620	1,266
	C	1,500	1,100	915
	All	2,707	1,874	1,638
SEP	W	4,025	3,622	1,929
	AN	2,764	2,044	1,519
	BN	2,370	1,605	1,369
	D	1,856	1,182	1,134
	C	1,164	594	620
	All	2,663	2,068	1,407
OCT	W	1,723	1,634	1,877
	AN	1,706	1,732	1,935
	BN	1,602	1,767	2,030
	D	1,468	1,258	1,624
	C	1,461	1,655	1,883
	All	1,605	1,592	1,857
NOV	W	3,527	2,612	2,574
	AN	3,181	2,554	2,168
	BN	2,067	1,716	1,646
	D	2,176	1,424	1,423
	C	1,994	1,608	1,724
	All	2,706	2,043	1,979
DEC	W	6,302	6,171	6,435
	AN	3,137	2,933	2,962
	BN	2,676	2,527	2,739
	D	1,741	1,351	1,376
	C	1,524	1,251	1,248
	All	3,519	3,297	3,426

1 **Table 20. Differences^a (Percent Differences) between Pairs of Model Scenarios in the American River**
 2 **at Nimbus Dam, Year-Round**

Alternative 3: Upstream—American River at Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	2,178 (24.7%)	-52 (-0.5%)
	AN	979 (20.3%)	7 (0.1%)
	BN	-35 (-1.4%)	285 (13.7%)
	D	-191 (-11.1%)	26 (1.7%)
	C	-230 (-15.6%)	149 (13.6%)
	All	752 (16.7%)	60 (1.2%)
FEB	W	1,798 (19.3%)	-10 (-0.1%)
	AN	1,858 (28.7%)	174 (2.1%)
	BN	367 (8.4%)	-234 (-4.7%)
	D	6 (0.3%)	14 (0.8%)
	C	-152 (-12.8%)	26 (2.6%)
	All	884 (16.9%)	-10 (-0.2%)
MAR	W	898 (14.7%)	-5 (-0.1%)
	AN	433 (7.9%)	97 (1.7%)
	BN	375 (15.4%)	10 (0.3%)
	D	-40 (-1.8%)	-164 (-7.1%)
	C	-79 (-8.4%)	-78 (-8.3%)
	All	392 (10.4%)	-33 (-0.8%)
APR	W	219 (4.1%)	11 (0.2%)
	AN	-224 (-6.3%)	24 (0.7%)
	BN	-78 (-2.5%)	78 (2.6%)
	D	179 (9.7%)	128 (6.8%)
	C	82 (7.1%)	-18 (-1.4%)
	All	75 (2.3%)	46 (1.4%)
MAY	W	-1,430 (-23.2%)	135 (2.9%)
	AN	-960 (-24.7%)	404 (16%)
	BN	-346 (-11.8%)	615 (31.2%)
	D	366 (20.4%)	470 (27.9%)
	C	-176 (-14.9%)	14 (1.4%)
	All	-598 (-16.7%)	312 (11.7%)
JUN	W	-1,538 (-25.6%)	771 (20.9%)
	AN	469 (14%)	793 (26.2%)
	BN	907 (31.7%)	888 (30.8%)
	D	91 (3.6%)	0 (0%)
	C	-702 (-38.5%)	98 (9.5%)
	All	-347 (-9.4%)	526 (18.6%)
JUL	W	-533 (-13%)	-285 (-7.4%)
	AN	-290 (-6.2%)	-579 (-11.7%)
	BN	-1,007 (-21.2%)	-591 (-13.6%)
	D	-865 (-24.2%)	-431 (-13.7%)
	C	309 (17.3%)	71 (3.5%)
	All	-528 (-13.8%)	-360 (-9.8%)

Alternative 3: Upstream—American River at Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	-1,355 (-38.5%)	33 (1.5%)
	AN	-744 (-29.3%)	-147 (-7.5%)
	BN	-875 (-35.1%)	-704 (-30.3%)
	D	-1,347 (-51.6%)	-354 (-21.9%)
	C	-585 (-39%)	-185 (-16.8%)
	All	-1,069 (-39.5%)	-236 (-12.6%)
SEP	W	-2,096 (-52.1%)	-1,694 (-46.8%)
	AN	-1,246 (-45.1%)	-525 (-25.7%)
	BN	-1,001 (-42.2%)	-236 (-14.7%)
	D	-722 (-38.9%)	-48 (-4.1%)
	C	-545 (-46.8%)	26 (4.4%)
	All	-1,256 (-47.2%)	-661 (-32%)
OCT	W	154 (8.9%)	242 (14.8%)
	AN	229 (13.4%)	203 (11.7%)
	BN	428 (26.7%)	263 (14.9%)
	D	156 (10.6%)	366 (29.1%)
	C	423 (28.9%)	229 (13.8%)
	All	251 (15.7%)	265 (16.7%)
NOV	W	-953 (-27%)	-38 (-1.5%)
	AN	-1,013 (-31.9%)	-386 (-15.1%)
	BN	-421 (-20.4%)	-70 (-4.1%)
	D	-754 (-34.6%)	-2 (-0.1%)
	C	-270 (-13.5%)	116 (7.2%)
	All	-727 (-26.9%)	-64 (-3.1%)
DEC	W	134 (2.1%)	264 (4.3%)
	AN	-175 (-5.6%)	29 (1%)
	BN	63 (2.4%)	212 (8.4%)
	D	-365 (-21%)	25 (1.8%)
	C	-276 (-18.1%)	-4 (-0.3%)
	All	-93 (-2.6%)	129 (3.9%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.3.1.11 American River at Confluence with Sacramento River**

2 **Table 21. Mean Monthly Flows (cfs) for Model Scenarios in the American River at the Confluence with**
 3 **the Sacramento River, Year-Round**

Alternative 3: Upstream—American River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	8,748	10,960	10,906
	AN	4,806	5,760	5,767
	BN	2,326	1,988	2,276
	D	1,654	1,424	1,454
	C	1,403	1,008	1,168
	All	4,443	5,118	5,181
FEB	W	9,183	10,947	10,937
	AN	6,422	8,073	8,247
	BN	4,309	4,888	4,651
	D	1,781	1,756	1,775
	C	1,119	921	958
	All	5,142	6,007	5,999
MAR	W	5,979	6,837	6,832
	AN	5,364	5,661	5,756
	BN	2,340	2,672	2,684
	D	2,121	2,224	2,060
	C	864	836	762
	All	3,672	4,063	4,030
APR	W	5,156	5,300	5,310
	AN	3,383	3,079	3,102
	BN	2,984	2,778	2,855
	D	1,672	1,677	1,806
	C	996	1,059	1,035
	All	3,152	3,128	3,173
MAY	W	5,959	4,332	4,467
	AN	3,700	2,285	2,689
	BN	2,733	1,726	2,340
	D	1,605	1,454	1,923
	C	1,014	790	807
	All	3,398	2,438	2,750
JUN	W	5,743	3,388	4,158
	AN	3,103	2,736	3,525
	BN	2,631	2,603	3,485
	D	2,282	2,320	2,316
	C	1,621	793	890
	All	3,462	2,545	3,068
JUL	W	3,844	3,560	3,269
	AN	4,399	4,635	4,050
	BN	4,509	4,038	3,440
	D	3,347	2,858	2,428
	C	1,568	1,784	1,851
	All	3,597	3,385	3,020

Alternative 3: Upstream—American River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
AUG	W	3,295	1,858	1,894
	AN	2,313	1,663	1,522
	BN	2,265	2,048	1,349
	D	2,395	1,357	1,007
	C	1,314	899	716
	All	2,488	1,612	1,379
SEP	W	3,846	3,415	1,721
	AN	2,594	1,838	1,314
	BN	2,205	1,402	1,173
	D	1,691	987	942
	C	1,011	427	454
	All	2,495	1,870	1,212
OCT	W	1,607	1,499	1,749
	AN	1,597	1,613	1,813
	BN	1,472	1,617	1,895
	D	1,344	1,114	1,486
	C	1,342	1,517	1,746
	All	1,486	1,454	1,725
NOV	W	3,472	2,540	2,499
	AN	3,100	2,455	2,067
	BN	1,990	1,618	1,545
	D	2,094	1,326	1,321
	C	1,897	1,489	1,610
	All	2,632	1,950	1,884
DEC	W	6,255	6,115	6,379
	AN	3,072	2,856	2,892
	BN	2,609	2,445	2,663
	D	1,675	1,275	1,300
	C	1,443	1,158	1,164
	All	3,457	3,224	3,356

1 **Table 22. Differences^a (Percent Differences) between Pairs of Model Scenarios in the American River**
 2 **at the Confluence with the Sacramento River, Year-Round**

Alternative 3: Upstream—American River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	2,158 (24.7%)	-54 (-0.5%)
	AN	961 (20%)	7 (0.1%)
	BN	-50 (-2.1%)	288 (14.5%)
	D	-200 (-12.1%)	30 (2.1%)
	C	-235 (-16.7%)	160 (15.9%)
	All	738 (16.6%)	63 (1.2%)
FEB	W	1,755 (19.1%)	-10 (-0.1%)
	AN	1,825 (28.4%)	174 (2.2%)
	BN	342 (7.9%)	-237 (-4.8%)
	D	-6 (-0.3%)	19 (1.1%)
	C	-161 (-14.4%)	37 (4%)
	All	857 (16.7%)	-8 (-0.1%)
MAR	W	853 (14.3%)	-5 (-0.1%)
	AN	392 (7.3%)	95 (1.7%)
	BN	344 (14.7%)	12 (0.4%)
	D	-61 (-2.9%)	-164 (-7.4%)
	C	-102 (-11.8%)	-74 (-8.9%)
	All	358 (9.7%)	-33 (-0.8%)
APR	W	155 (3%)	11 (0.2%)
	AN	-281 (-8.3%)	23 (0.7%)
	BN	-129 (-4.3%)	77 (2.8%)
	D	134 (8%)	129 (7.7%)
	C	39 (3.9%)	-25 (-2.3%)
	All	21 (0.7%)	45 (1.4%)
MAY	W	-1,492 (-25%)	135 (3.1%)
	AN	-1,011 (-27.3%)	404 (17.7%)
	BN	-393 (-14.4%)	614 (35.6%)
	D	318 (19.8%)	469 (32.3%)
	C	-207 (-20.4%)	17 (2.2%)
	All	-648 (-19.1%)	312 (12.8%)
JUN	W	-1,584 (-27.6%)	770 (22.7%)
	AN	422 (13.6%)	789 (28.8%)
	BN	854 (32.5%)	882 (33.9%)
	D	34 (1.5%)	-4 (-0.2%)
	C	-731 (-45.1%)	98 (12.2%)
	All	-394 (-11.4%)	523 (20.6%)
JUL	W	-575 (-15%)	-291 (-8.2%)
	AN	-349 (-7.9%)	-585 (-12.6%)
	BN	-1,069 (-23.7%)	-598 (-14.8%)
	D	-919 (-27.5%)	-430 (-15%)
	C	283 (18%)	67 (3.8%)
	All	-577 (-16%)	-365 (-10.8%)

Alternative 3: Upstream—American River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	-1,401 (-42.5%)	36 (1.9%)
	AN	-791 (-34.2%)	-141 (-8.5%)
	BN	-915 (-40.4%)	-699 (-34.1%)
	D	-1,388 (-58%)	-350 (-25.8%)
	C	-598 (-45.5%)	-183 (-20.4%)
	All	-1,109 (-44.6%)	-232 (-14.5%)
SEP	W	-2,125 (-55.3%)	-1,694 (-49.6%)
	AN	-1,280 (-49.3%)	-524 (-28.5%)
	BN	-1,032 (-46.8%)	-229 (-16.3%)
	D	-749 (-44.3%)	-45 (-4.6%)
	C	-557 (-55.1%)	27 (6.3%)
	All	-1,283 (-51.4%)	-658 (-35.2%)
OCT	W	142 (8.8%)	250 (16.7%)
	AN	217 (13.5%)	200 (12.4%)
	BN	423 (28.7%)	278 (17.2%)
	D	142 (10.6%)	372 (33.4%)
	C	404 (30.1%)	229 (15.1%)
	All	239 (16.1%)	271 (18.6%)
NOV	W	-973 (-28%)	-41 (-1.6%)
	AN	-1,033 (-33.3%)	-388 (-15.8%)
	BN	-445 (-22.4%)	-73 (-4.5%)
	D	-773 (-36.9%)	-5 (-0.4%)
	C	-287 (-15.1%)	121 (8.1%)
	All	-748 (-28.4%)	-66 (-3.4%)
DEC	W	124 (2%)	264 (4.3%)
	AN	-180 (-5.9%)	36 (1.3%)
	BN	54 (2.1%)	218 (8.9%)
	D	-375 (-22.4%)	25 (2%)
	C	-279 (-19.3%)	6 (0.5%)
	All	-101 (-2.9%)	132 (4.1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.3.1.12 Stanislaus River at the Confluence with the San Joaquin River**

2 **Table 23. Mean Monthly Flows (cfs) for Model Scenarios in the Stanislaus River at the Confluence with**
 3 **the San Joaquin River, Year-Round**

Alternative 3: Upstream—Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT^a	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	956	885	885
	AN	843	963	963
	BN	416	369	369
	D	403	366	366
	C	314	265	265
	All	635	615	615
FEB	W	1,285	1,236	1,239
	AN	917	858	858
	BN	551	438	438
	D	562	359	359
	C	490	348	348
	All	827	723	724
MAR	W	2,063	2,217	2,216
	AN	1,295	956	956
	BN	732	548	547
	D	559	390	390
	C	541	444	444
	All	1,167	1,071	1,071
APR	W	2,054	1,965	1,965
	AN	1,719	1,535	1,534
	BN	1,494	1,211	1,210
	D	1,438	1,199	1,198
	C	823	670	670
	All	1,562	1,387	1,387
MAY	W	1,653	1,613	1,614
	AN	1,389	1,243	1,243
	BN	1,238	898	898
	D	1,140	916	916
	C	715	627	626
	All	1,271	1,125	1,125
JUN	W	1,608	1,763	1,762
	AN	1,134	985	984
	BN	663	568	566
	D	447	364	365
	C	332	296	292
	All	932	914	912
JUL	W	1,064	1,080	1,080
	AN	489	454	454
	BN	450	425	425
	D	398	359	360
	C	337	310	313
	All	607	590	590

Alternative 3: Upstream—Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT^a	EXISTING CONDITIONS	NAA	A3_LL^T
AUG	W	930	717	717
	AN	476	454	454
	BN	423	418	418
	D	387	382	382
	C	341	338	338
	All	560	491	491
SEP	W	1,040	863	863
	AN	502	474	474
	BN	417	407	407
	D	395	390	390
	C	324	317	331
	All	595	533	536
OCT	W	897	845	845
	AN	873	822	823
	BN	903	844	844
	D	984	925	925
	C	689	612	612
	All	867	808	808
NOV	W	426	408	408
	AN	580	524	524
	BN	341	334	334
	D	345	321	321
	C	325	308	309
	All	410	386	386
DEC	W	512	429	418
	AN	722	697	697
	BN	331	353	353
	D	317	294	294
	C	289	272	272
	All	450	417	414

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 24. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Stanislaus River**
 2 **at the Confluence with the San Joaquin River, Year-Round**

Alternative 3: Upstream—Stanislaus River at Confluence with San Joaquin River			
Month	WYT^b	EXISTING CONDITIONS vs. A3_LL	NAA vs. A3_LL
JAN	W	-71 (-7.4%)	0 (0%)
	AN	120 (14.3%)	0 (0%)
	BN	-47 (-11.3%)	0 (0%)
	D	-37 (-9.1%)	0 (0%)
	C	-49 (-15.5%)	0 (0%)
	All	-20 (-3.2%)	0 (0%)
FEB	W	-46 (-3.6%)	3 (0.2%)
	AN	-59 (-6.4%)	0 (0%)
	BN	-113 (-20.5%)	0 (0%)
	D	-203 (-36.2%)	0 (0%)
	C	-142 (-29%)	0 (0%)
	All	-103 (-12.4%)	1 (0.1%)
MAR	W	153 (7.4%)	0 (0%)
	AN	-339 (-26.2%)	0 (0%)
	BN	-185 (-25.2%)	0 (-0.1%)
	D	-169 (-30.2%)	0 (-0.1%)
	C	-97 (-17.9%)	0 (0%)
	All	-96 (-8.2%)	0 (0%)
APR	W	-89 (-4.3%)	0 (0%)
	AN	-185 (-10.7%)	0 (0%)
	BN	-283 (-19%)	-1 (0%)
	D	-240 (-16.7%)	0 (0%)
	C	-153 (-18.6%)	0 (0%)
	All	-175 (-11.2%)	0 (0%)
MAY	W	-39 (-2.4%)	1 (0%)
	AN	-146 (-10.5%)	0 (0%)
	BN	-340 (-27.5%)	-1 (-0.1%)
	D	-224 (-19.7%)	0 (0%)
	C	-89 (-12.5%)	-1 (-0.2%)
	All	-147 (-11.5%)	0 (0%)
JUN	W	155 (9.6%)	0 (0%)
	AN	-150 (-13.2%)	-1 (-0.1%)
	BN	-97 (-14.6%)	-2 (-0.3%)
	D	-82 (-18.4%)	0 (0%)
	C	-40 (-12%)	-4 (-1.3%)
	All	-20 (-2.2%)	-1 (-0.2%)
JUL	W	17 (1.6%)	0 (0%)
	AN	-35 (-7.2%)	0 (0%)
	BN	-25 (-5.5%)	0 (0%)
	D	-38 (-9.4%)	1 (0.3%)
	C	-24 (-7.2%)	2 (0.7%)
	All	-17 (-2.7%)	1 (0.1%)

Alternative 3: Upstream—Stanislaus River at Confluence with San Joaquin River			
Month	WYT^b	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	-212 (-22.8%)	0 (0%)
	AN	-22 (-4.6%)	0 (0%)
	BN	-4 (-1%)	0 (0%)
	D	-5 (-1.2%)	0 (0%)
	C	-3 (-0.9%)	0 (0.1%)
	All	-68 (-12.2%)	0 (0%)
SEP	W	-177 (-17%)	0 (0%)
	AN	-28 (-5.6%)	0 (0%)
	BN	-10 (-2.4%)	0 (0%)
	D	-5 (-1.3%)	0 (0%)
	C	6 (1.9%)	14 (4.4%)
	All	-59 (-9.8%)	3 (0.5%)
OCT	W	-52 (-5.8%)	0 (0%)
	AN	-50 (-5.8%)	0 (0.1%)
	BN	-59 (-6.5%)	0 (0%)
	D	-59 (-6%)	0 (0%)
	C	-77 (-11.1%)	0 (0%)
	All	-59 (-6.8%)	0 (0%)
NOV	W	-18 (-4.3%)	0 (0%)
	AN	-56 (-9.7%)	0 (0%)
	BN	-8 (-2.3%)	0 (0%)
	D	-23 (-6.7%)	0 (0%)
	C	-16 (-4.9%)	0 (0.2%)
	All	-24 (-5.9%)	0 (0%)
DEC	W	-94 (-18.4%)	-11 (-2.6%)
	AN	-25 (-3.5%)	0 (0%)
	BN	23 (6.8%)	0 (0%)
	D	-23 (-7.3%)	0 (0%)
	C	-16 (-5.7%)	0 (0%)
	All	-36 (-8%)	-3 (-0.8%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.3.2 In Delta**

2 **11C.3.2.1 OMR Flow (Old and Middle Rivers)**

3 **Table 25. Mean Monthly Flows (cfs) for Model Scenarios in the Old and Middle Rivers, Year-Round**

Alternative 3: In Delta—OMR Flow (Old and Middle Rivers)				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	-1,820	-1,606	532
	AN	-3,553	-3,446	-2,261
	BN	-4,240	-3,803	-3,853
	D	-4,664	-4,675	-3,466
	C	-4,130	-3,684	-1,542
	All	-3,449	-3,228	-1,807
FEB	W	-2,365	-2,293	2,061
	AN	-3,274	-3,147	-1,359
	BN	-3,437	-3,290	-2,104
	D	-3,986	-3,502	-3,384
	C	-3,191	-3,047	-2,809
	All	-3,158	-2,964	-1,058
MAR	W	-1,600	-1,454	3,772
	AN	-4,251	-3,815	-1,592
	BN	-4,147	-3,834	-1,910
	D	-2,852	-2,614	-2,391
	C	-2,010	-1,636	-1,687
	All	-2,758	-2,487	-135
APR	W	2,431	2,415	438
	AN	1,058	787	-2,013
	BN	677	214	-2,398
	D	-268	-615	-1,740
	C	-950	-845	-1,140
	All	843	659	-1,114
MAY	W	1,651	1,555	434
	AN	509	396	-1,997
	BN	272	-237	-2,003
	D	-647	-1,010	-1,481
	C	-1,020	-911	-767
	All	353	155	-934
JUN	W	-4,164	-4,369	-2,663
	AN	-4,761	-4,454	-3,918
	BN	-4,154	-3,420	-2,077
	D	-3,301	-2,592	-1,640
	C	-2,250	-2,143	-1,616
	All	-3,780	-3,504	-2,369

Alternative 3: In Delta—OMR Flow (Old and Middle Rivers)				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JUL	W	-8,959	-8,699	-5,716
	AN	-9,919	-7,962	-5,241
	BN	-10,853	-9,942	-6,272
	D	-10,891	-9,505	-4,542
	C	-8,058	-5,234	-2,958
	All	-9,715	-8,473	-5,080
AUG	W	-10,062	-10,518	-4,552
	AN	-10,348	-10,985	-5,739
	BN	-10,044	-9,374	-4,964
	D	-10,122	-7,259	-3,939
	C	-4,384	-3,192	-2,872
	All	-9,283	-8,604	-4,416
SEP	W	-9,317	-7,580	-5,003
	AN	-9,163	-9,002	-5,430
	BN	-8,575	-8,392	-4,533
	D	-8,081	-5,165	-4,031
	C	-4,807	-3,966	-2,536
	All	-8,236	-6,868	-4,411
OCT	W	-8,347	-5,049	-5,121
	AN	-7,643	-3,648	-4,602
	BN	-7,804	-4,793	-4,918
	D	-6,961	-4,103	-4,826
	C	-6,440	-3,920	-4,051
	All	-7,568	-4,427	-4,789
NOV	W	-8,902	-6,527	-5,959
	AN	-7,264	-6,003	-5,307
	BN	-7,997	-5,542	-5,443
	D	-7,136	-5,007	-5,030
	C	-5,294	-4,389	-3,714
	All	-7,592	-5,636	-5,243
DEC	W	-5,542	-5,591	-4,502
	AN	-6,987	-7,050	-6,087
	BN	-7,304	-7,040	-6,635
	D	-7,214	-7,006	-7,006
	C	-6,166	-4,173	-5,849
	All	-6,513	-6,155	-5,845

1 **Table 26. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Old and Middle**
 2 **Rivers, Year-Round**

Alternative 3: In Delta—OMR Flow (Old and Middle Rivers)			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	2,352 (129.2%)	2,138 (133.1%)
	AN	1,291 (36.4%)	1,185 (34.4%)
	BN	386 (9.1%)	-51 (-1.3%)
	D	1,197 (25.7%)	1,209 (25.9%)
	C	2,588 (62.7%)	2,142 (58.1%)
	All	1,642 (47.6%)	1,422 (44%)
FEB	W	4,426 (187.1%)	4,354 (189.9%)
	AN	1,916 (58.5%)	1,788 (56.8%)
	BN	1,333 (38.8%)	1,186 (36.1%)
	D	601 (15.1%)	118 (3.4%)
	C	382 (12%)	239 (7.8%)
	All	2,099 (66.5%)	1,905 (64.3%)
MAR	W	5,372 (335.7%)	5,225 (359.5%)
	AN	2,659 (62.6%)	2,223 (58.3%)
	BN	2,237 (53.9%)	1,924 (50.2%)
	D	461 (16.2%)	223 (8.5%)
	C	324 (16.1%)	-50 (-3.1%)
	All	2,623 (95.1%)	2,352 (94.6%)
APR	W	-1,994 (-82%)	-1,978 (-81.9%)
	AN	-3,071 (-290.2%)	-2,800 (-355.7%)
	BN	-3,074 (-454.2%)	-2,611 (-1,220.5%)
	D	-1,472 (-549.5%)	-1,125 (-182.8%)
	C	-190 (-19.9%)	-295 (-34.9%)
	All	-1,957 (-232.1%)	-1,773 (-269.1%)
MAY	W	-1,217 (-73.7%)	-1,121 (-72.1%)
	AN	-2,507 (-492.1%)	-2,393 (-604.6%)
	BN	-2,274 (-837.1%)	-1,765 (-743.3%)
	D	-835 (-129%)	-471 (-46.7%)
	C	253 (24.8%)	145 (15.9%)
	All	-1,287 (-364.4%)	-1,089 (-700.8%)
JUN	W	1,501 (36.1%)	1,707 (39.1%)
	AN	843 (17.7%)	535 (12%)
	BN	2,078 (50%)	1,343 (39.3%)
	D	1,660 (50.3%)	951 (36.7%)
	C	634 (28.2%)	526 (24.6%)
	All	1,411 (37.3%)	1,135 (32.4%)
JUL	W	3,242 (36.2%)	2,983 (34.3%)
	AN	4,678 (47.2%)	2,721 (34.2%)
	BN	4,581 (42.2%)	3,670 (36.9%)
	D	6,349 (58.3%)	4,963 (52.2%)
	C	5,099 (63.3%)	2,275 (43.5%)
	All	4,635 (47.7%)	3,393 (40%)

Alternative 3: In Delta—OMR Flow (Old and Middle Rivers)			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	5,510 (54.8%)	5,966 (56.7%)
	AN	4,610 (44.5%)	5,246 (47.8%)
	BN	5,080 (50.6%)	4,410 (47%)
	D	6,184 (61.1%)	3,321 (45.7%)
	C	1,513 (34.5%)	320 (10%)
	All	4,868 (52.4%)	4,188 (48.7%)
SEP	W	4,314 (46.3%)	2,578 (34%)
	AN	3,732 (40.7%)	3,572 (39.7%)
	BN	4,042 (47.1%)	3,859 (46%)
	D	4,050 (50.1%)	1,134 (22%)
	C	2,271 (47.2%)	1,430 (36.1%)
	All	3,826 (46.4%)	2,457 (35.8%)
OCT	W	3,226 (38.6%)	-72 (-1.4%)
	AN	3,041 (39.8%)	-953 (-26.1%)
	BN	2,886 (37%)	-125 (-2.6%)
	D	2,134 (30.7%)	-723 (-17.6%)
	C	2,389 (37.1%)	-131 (-3.3%)
	All	2,779 (36.7%)	-362 (-8.2%)
NOV	W	2,943 (33.1%)	568 (8.7%)
	AN	1,957 (26.9%)	696 (11.6%)
	BN	2,553 (31.9%)	99 (1.8%)
	D	2,107 (29.5%)	-23 (-0.5%)
	C	1,579 (29.8%)	675 (15.4%)
	All	2,349 (30.9%)	393 (7%)
DEC	W	1,040 (18.8%)	1,090 (19.5%)
	AN	900 (12.9%)	963 (13.7%)
	BN	669 (9.2%)	406 (5.8%)
	D	208 (2.9%)	-1 (0%)
	C	317 (5.1%)	-1,675 (-40.1%)
	All	668 (10.3%)	310 (5%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.3.2.2 Sacramento River Downstream of North Delta Diversion Facility**

2 **Table 27. Mean Monthly Flows (cfs) for Model Scenarios for the Sacramento River Downstream of the**
 3 **North Delta Diversion Facility, Year-Round**

Alternative 3: In Delta—Sacramento River Downstream of North Delta Diversion Facility				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	50,961	52,878	47,110
	AN	39,863	40,484	35,796
	BN	23,781	22,653	20,276
	D	17,444	17,451	16,758
	C	14,281	15,073	13,124
	All	31,971	32,595	29,237
FEB	W	57,314	59,847	52,834
	AN	45,676	47,786	41,555
	BN	31,934	31,592	26,948
	D	21,202	21,107	18,985
	C	14,708	14,291	13,210
	All	37,116	38,087	33,535
MAR	W	49,416	50,993	43,239
	AN	44,495	45,088	38,037
	BN	24,489	22,915	18,251
	D	20,656	20,650	17,175
	C	13,245	13,137	12,343
	All	32,834	33,134	27,969
APR	W	37,809	37,543	31,285
	AN	25,979	24,931	20,064
	BN	17,752	17,128	15,612
	D	12,990	12,904	12,515
	C	10,229	10,365	10,273
	All	23,169	22,826	19,772
MAY	W	31,948	24,500	21,012
	AN	21,021	18,657	16,732
	BN	14,227	12,394	12,836
	D	10,959	11,427	12,132
	C	7,749	8,011	7,720
	All	19,175	16,295	15,096
JUN	W	23,900	18,603	16,649
	AN	16,309	16,051	15,314
	BN	13,576	13,898	13,144
	D	12,222	12,656	11,544
	C	9,884	10,123	9,302
	All	16,412	14,880	13,660
JUL	W	19,876	21,425	16,224
	AN	21,574	22,727	16,596
	BN	20,953	20,513	15,349
	D	19,272	18,957	12,628
	C	15,397	13,767	10,940
	All	19,520	19,797	14,566

Alternative 3: In Delta—Sacramento River Downstream of North Delta Diversion Facility				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
AUG	W	15,816	16,064	9,409
	AN	15,877	17,491	11,332
	BN	15,643	16,232	10,460
	D	16,965	14,351	9,704
	C	10,095	8,996	8,150
	All	15,210	14,891	9,751
SEP	W	18,254	27,212	8,534
	AN	13,198	21,006	8,740
	BN	12,427	12,306	8,112
	D	12,155	8,620	8,225
	C	8,485	7,292	8,512
	All	13,751	16,763	8,421
OCT	W	13,505	13,277	13,568
	AN	11,118	11,864	14,074
	BN	11,557	12,124	13,743
	D	10,279	10,487	12,294
	C	10,073	9,964	13,727
	All	11,613	11,776	13,415
NOV	W	19,447	19,285	14,617
	AN	15,309	15,925	10,477
	BN	12,574	13,037	8,652
	D	12,868	11,914	9,347
	C	9,633	9,295	8,035
	All	14,788	14,647	10,873
DEC	W	39,708	37,022	33,793
	AN	21,663	22,629	22,076
	BN	16,678	16,692	16,691
	D	15,442	15,159	15,185
	C	11,816	10,632	11,087
	All	23,727	22,784	21,751

1 **Table 28. Differences^a (Percent Differences) between Pairs of Model Scenarios for the Sacramento**
 2 **River Downstream of the North Delta Diversion Facility, Year-Round**

Alternative 3: In Delta—Sacramento River Downstream of North Delta Diversion Facility			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	-3,851 (-7.6%)	-5,768 (-10.9%)
	AN	-4,067 (-10.2%)	-4,688 (-11.6%)
	BN	-3,505 (-14.7%)	-2,377 (-10.5%)
	D	-686 (-3.9%)	-693 (-4%)
	C	-1,157 (-8.1%)	-1,949 (-12.9%)
	All	-2,734 (-8.6%)	-3,358 (-10.3%)
FEB	W	-4,480 (-7.8%)	-7,013 (-11.7%)
	AN	-4,121 (-9%)	-6,231 (-13%)
	BN	-4,986 (-15.6%)	-4,644 (-14.7%)
	D	-2,217 (-10.5%)	-2,122 (-10.1%)
	C	-1,498 (-10.2%)	-1,081 (-7.6%)
	All	-3,581 (-9.6%)	-4,552 (-12%)
MAR	W	-6,177 (-12.5%)	-7,754 (-15.2%)
	AN	-6,458 (-14.5%)	-7,051 (-15.6%)
	BN	-6,238 (-25.5%)	-4,664 (-20.4%)
	D	-3,481 (-16.9%)	-3,475 (-16.8%)
	C	-902 (-6.8%)	-794 (-6%)
	All	-4,865 (-14.8%)	-5,165 (-15.6%)
APR	W	-6,524 (-17.3%)	-6,258 (-16.7%)
	AN	-5,915 (-22.8%)	-4,867 (-19.5%)
	BN	-2,140 (-12.1%)	-1,516 (-8.9%)
	D	-475 (-3.7%)	-389 (-3%)
	C	44 (0.4%)	-92 (-0.9%)
	All	-3,397 (-14.7%)	-3,054 (-13.4%)
MAY	W	-10,936 (-34.2%)	-3,488 (-14.2%)
	AN	-4,289 (-20.4%)	-1,925 (-10.3%)
	BN	-1,391 (-9.8%)	442 (3.6%)
	D	1,173 (10.7%)	705 (6.2%)
	C	-29 (-0.4%)	-291 (-3.6%)
	All	-4,079 (-21.3%)	-1,199 (-7.4%)
JUN	W	-7,251 (-30.3%)	-1,954 (-10.5%)
	AN	-995 (-6.1%)	-737 (-4.6%)
	BN	-432 (-3.2%)	-754 (-5.4%)
	D	-678 (-5.6%)	-1,112 (-8.8%)
	C	-582 (-5.9%)	-821 (-8.1%)
	All	-2,752 (-16.8%)	-1,220 (-8.2%)
JUL	W	-3,652 (-18.4%)	-5,201 (-24.3%)
	AN	-4,978 (-23.1%)	-6,131 (-27%)
	BN	-5,604 (-26.7%)	-5,164 (-25.2%)
	D	-6,644 (-34.5%)	-6,329 (-33.4%)
	C	-4,457 (-28.9%)	-2,827 (-20.5%)
	All	-4,954 (-25.4%)	-5,231 (-26.4%)

Alternative 3: In Delta—Sacramento River Downstream of North Delta Diversion Facility			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1T	NAA vs. A3_LL1T
AUG	W	-6,407 (-40.5%)	-6,655 (-41.4%)
	AN	-4,545 (-28.6%)	-6,159 (-35.2%)
	BN	-5,183 (-33.1%)	-5,772 (-35.6%)
	D	-7,261 (-42.8%)	-4,647 (-32.4%)
	C	-1,945 (-19.3%)	-846 (-9.4%)
	All	-5,459 (-35.9%)	-5,140 (-34.5%)
SEP	W	-9,720 (-53.2%)	-18,678 (-68.6%)
	AN	-4,458 (-33.8%)	-12,266 (-58.4%)
	BN	-4,315 (-34.7%)	-4,194 (-34.1%)
	D	-3,930 (-32.3%)	-395 (-4.6%)
	C	27 (0.3%)	1,220 (16.7%)
	All	-5,330 (-38.8%)	-8,342 (-49.8%)
OCT	W	63 (0.5%)	291 (2.2%)
	AN	2,956 (26.6%)	2,210 (18.6%)
	BN	2,186 (18.9%)	1,619 (13.4%)
	D	2,015 (19.6%)	1,807 (17.2%)
	C	3,654 (36.3%)	3,763 (37.8%)
	All	1,802 (15.5%)	1,639 (13.9%)
NOV	W	-4,830 (-24.8%)	-4,668 (-24.2%)
	AN	-4,832 (-31.6%)	-5,448 (-34.2%)
	BN	-3,922 (-31.2%)	-4,385 (-33.6%)
	D	-3,521 (-27.4%)	-2,567 (-21.5%)
	C	-1,598 (-16.6%)	-1,260 (-13.6%)
	All	-3,915 (-26.5%)	-3,774 (-25.8%)
DEC	W	-5,915 (-14.9%)	-3,229 (-8.7%)
	AN	413 (1.9%)	-553 (-2.4%)
	BN	13 (0.1%)	-1 (0%)
	D	-257 (-1.7%)	26 (0.2%)
	C	-729 (-6.2%)	455 (4.3%)
	All	-1,976 (-8.3%)	-1,033 (-4.5%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.3.2.3 Sacramento River at Rio Vista**

2 **Table 29. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Rio Vista,**
 3 **Year-Round**

Alternative 3: In Delta—Sacramento River at Rio Vista				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1T
JAN	W	71,111	78,551	76,879
	AN	41,963	42,919	40,693
	BN	20,943	19,991	19,814
	D	14,895	14,927	15,067
	C	11,853	12,601	11,304
	All	37,268	39,721	38,676
FEB	W	80,958	89,989	86,983
	AN	52,542	55,363	53,741
	BN	30,159	29,442	28,133
	D	19,320	19,422	18,615
	C	12,247	11,956	11,457
	All	44,541	47,675	46,011
MAR	W	63,763	68,663	64,264
	AN	46,750	48,513	45,102
	BN	20,980	19,562	17,064
	D	17,656	17,679	15,746
	C	10,710	10,684	10,404
	All	36,084	37,655	34,869
APR	W	38,214	38,422	35,059
	AN	22,726	21,855	19,103
	BN	14,652	14,207	13,415
	D	10,331	10,299	10,184
	C	7,665	7,816	7,840
	All	21,333	21,211	19,585
MAY	W	26,933	20,046	17,128
	AN	17,008	14,948	13,364
	BN	10,924	9,355	9,812
	D	8,135	8,564	9,269
	C	5,305	5,554	5,405
	All	15,456	12,833	11,887
JUN	W	16,557	11,418	9,675
	AN	9,887	9,220	8,339
	BN	7,001	7,241	6,758
	D	6,020	6,335	5,604
	C	4,333	4,513	4,027
	All	9,847	8,257	7,261
JUL	W	11,125	12,181	8,504
	AN	12,128	12,927	8,573
	BN	11,686	11,357	7,734
	D	10,523	10,307	6,161
	C	7,736	6,596	4,701
	All	10,739	10,921	7,312

Alternative 3: In Delta—Sacramento River at Rio Vista				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
AUG	W	8,507	8,650	3,979
	AN	8,538	9,648	5,297
	BN	8,371	8,753	4,694
	D	9,264	7,417	4,185
	C	4,390	3,615	3,234
	All	8,052	7,806	4,230
SEP	W	10,767	21,199	3,569
	AN	6,788	12,832	3,706
	BN	6,283	6,197	3,309
	D	6,116	3,644	3,416
	C	3,588	2,996	3,764
	All	7,348	10,896	3,540
OCT	W	8,718	8,287	9,070
	AN	6,183	7,207	9,573
	BN	6,258	6,976	8,217
	D	5,312	5,727	7,343
	C	5,215	4,969	9,179
	All	6,667	6,858	8,635
NOV	W	15,829	15,879	11,738
	AN	11,333	12,156	6,972
	BN	8,184	9,071	5,003
	D	8,733	8,061	5,845
	C	5,473	5,565	4,348
	All	10,793	10,946	7,516
DEC	W	43,367	40,431	40,845
	AN	19,040	19,936	20,136
	BN	13,987	14,049	14,409
	D	11,999	11,687	12,086
	C	8,131	7,186	7,692
	All	22,749	21,753	22,136

1 **Table 30. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento**
 2 **River at Rio Vista, Year-Round**

Alternative 3: In Delta—Sacramento River at Rio Vista			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	5,768 (8.1%)	-1,672 (-2.1%)
	AN	-1,270 (-3%)	-2,226 (-5.2%)
	BN	-1,129 (-5.4%)	-177 (-0.9%)
	D	172 (1.2%)	140 (0.9%)
	C	-549 (-4.6%)	-1,297 (-10.3%)
	All	1,408 (3.8%)	-1,045 (-2.6%)
FEB	W	6,025 (7.4%)	-3,006 (-3.3%)
	AN	1,199 (2.3%)	-1,622 (-2.9%)
	BN	-2,026 (-6.7%)	-1,309 (-4.4%)
	D	-705 (-3.6%)	-807 (-4.2%)
	C	-790 (-6.5%)	-499 (-4.2%)
	All	1,470 (3.3%)	-1,664 (-3.5%)
MAR	W	501 (0.8%)	-4,399 (-6.4%)
	AN	-1,648 (-3.5%)	-3,411 (-7%)
	BN	-3,916 (-18.7%)	-2,498 (-12.8%)
	D	-1,910 (-10.8%)	-1,933 (-10.9%)
	C	-306 (-2.9%)	-280 (-2.6%)
	All	-1,215 (-3.4%)	-2,786 (-7.4%)
APR	W	-3,155 (-8.3%)	-3,363 (-8.8%)
	AN	-3,623 (-15.9%)	-2,752 (-12.6%)
	BN	-1,237 (-8.4%)	-792 (-5.6%)
	D	-147 (-1.4%)	-115 (-1.1%)
	C	175 (2.3%)	24 (0.3%)
	All	-1,748 (-8.2%)	-1,626 (-7.7%)
MAY	W	-9,805 (-36.4%)	-2,918 (-14.6%)
	AN	-3,644 (-21.4%)	-1,584 (-10.6%)
	BN	-1,112 (-10.2%)	457 (4.9%)
	D	1,134 (13.9%)	705 (8.2%)
	C	100 (1.9%)	-149 (-2.7%)
	All	-3,569 (-23.1%)	-946 (-7.4%)
JUN	W	-6,882 (-41.6%)	-1,743 (-15.3%)
	AN	-1,548 (-15.7%)	-881 (-9.6%)
	BN	-243 (-3.5%)	-483 (-6.7%)
	D	-416 (-6.9%)	-731 (-11.5%)
	C	-306 (-7.1%)	-486 (-10.8%)
	All	-2,586 (-26.3%)	-996 (-12.1%)
JUL	W	-2,621 (-23.6%)	-3,677 (-30.2%)
	AN	-3,555 (-29.3%)	-4,354 (-33.7%)
	BN	-3,952 (-33.8%)	-3,623 (-31.9%)
	D	-4,362 (-41.5%)	-4,146 (-40.2%)
	C	-3,035 (-39.2%)	-1,895 (-28.7%)
	All	-3,427 (-31.9%)	-3,609 (-33%)

Alternative 3: In Delta—Sacramento River at Rio Vista			
Month	WYT	EXISTING CONDITIONS vs. A3_LLT	NAA vs. A3_LLT
AUG	W	-4,528 (-53.2%)	-4,671 (-54%)
	AN	-3,241 (-38%)	-4,351 (-45.1%)
	BN	-3,677 (-43.9%)	-4,059 (-46.4%)
	D	-5,079 (-54.8%)	-3,232 (-43.6%)
	C	-1,156 (-26.3%)	-381 (-10.5%)
	All	-3,822 (-47.5%)	-3,576 (-45.8%)
SEP	W	-7,198 (-66.9%)	-17,630 (-83.2%)
	AN	-3,082 (-45.4%)	-9,126 (-71.1%)
	BN	-2,974 (-47.3%)	-2,888 (-46.6%)
	D	-2,700 (-44.1%)	-228 (-6.3%)
	C	176 (4.9%)	768 (25.6%)
	All	-3,808 (-51.8%)	-7,356 (-67.5%)
OCT	W	352 (4%)	783 (9.4%)
	AN	3,390 (54.8%)	2,366 (32.8%)
	BN	1,959 (31.3%)	1,241 (17.8%)
	D	2,031 (38.2%)	1,616 (28.2%)
	C	3,964 (76%)	4,210 (84.7%)
	All	1,968 (29.5%)	1,777 (25.9%)
NOV	W	-4,091 (-25.8%)	-4,141 (-26.1%)
	AN	-4,361 (-38.5%)	-5,184 (-42.6%)
	BN	-3,181 (-38.9%)	-4,068 (-44.8%)
	D	-2,888 (-33.1%)	-2,216 (-27.5%)
	C	-1,125 (-20.6%)	-1,217 (-21.9%)
	All	-3,277 (-30.4%)	-3,430 (-31.3%)
DEC	W	-2,522 (-5.8%)	414 (1%)
	AN	1,096 (5.8%)	200 (1%)
	BN	422 (3%)	360 (2.6%)
	D	87 (0.7%)	399 (3.4%)
	C	-439 (-5.4%)	506 (7%)
	All	-613 (-2.7%)	383 (1.8%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.3.2.4 Delta Outflow**2 **Table 31. Mean Monthly Flows (cfs) for Model Scenarios at the Delta Outflow, Year-Round**

Alternative 3: In Delta—Delta Outflow				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	85,900	94,620	94,461
	AN	49,448	51,100	49,621
	BN	22,968	22,301	21,773
	D	14,736	14,732	16,098
	C	11,343	12,651	13,453
	All	43,289	46,372	46,432
FEB	W	96,835	107,085	107,861
	AN	62,321	65,873	65,321
	BN	36,766	36,084	35,420
	D	20,915	21,461	20,525
	C	12,991	12,798	12,340
	All	52,594	56,338	56,118
MAR	W	78,956	84,471	84,730
	AN	54,171	56,737	54,844
	BN	24,029	22,467	21,471
	D	19,880	19,985	17,847
	C	11,911	12,215	11,759
	All	43,172	45,097	44,196
APR	W	54,394	54,562	48,187
	AN	31,975	30,576	24,101
	BN	21,928	20,641	16,785
	D	14,142	13,413	12,008
	C	9,053	9,294	8,953
	All	30,099	29,603	25,618
MAY	W	41,040	32,880	28,263
	AN	24,200	21,709	17,230
	BN	16,299	13,596	12,172
	D	10,487	10,375	10,591
	C	6,000	6,286	6,205
	All	22,517	19,121	16,794
JUN	W	23,451	15,640	15,657
	AN	11,801	10,676	10,597
	BN	8,004	8,943	9,685
	D	6,636	7,689	7,779
	C	5,322	5,632	5,443
	All	12,765	10,560	10,673
JUL	W	11,441	11,407	9,386
	AN	9,430	12,225	9,017
	BN	7,151	7,668	6,529
	D	5,024	6,448	5,504
	C	4,238	5,832	5,355
	All	7,951	8,984	7,402

Alternative 3: In Delta—Delta Outflow				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL
AUG	W	5,341	4,308	4,000
	AN	4,000	4,713	4,136
	BN	4,000	5,129	4,126
	D	4,829	5,348	4,300
	C	4,077	4,433	3,956
	All	4,618	4,754	4,101
SEP	W	9,569	20,078	4,205
	AN	3,672	11,581	3,263
	BN	3,445	3,428	3,490
	D	3,350	3,021	3,925
	C	3,000	3,036	5,746
	All	5,334	9,754	4,109
OCT	W	6,487	9,520	9,900
	AN	4,021	8,982	10,282
	BN	4,477	8,054	9,695
	D	4,157	7,294	8,521
	C	4,158	6,607	10,384
	All	4,931	8,276	9,689
NOV	W	14,232	15,987	12,201
	AN	9,683	11,529	6,899
	BN	5,864	8,681	4,490
	D	6,943	8,052	5,583
	C	5,045	5,725	5,248
	All	9,193	10,844	7,638
DEC	W	48,185	45,191	46,430
	AN	18,014	19,119	20,297
	BN	11,950	12,231	13,008
	D	8,884	8,828	9,263
	C	5,531	6,560	5,297
	All	22,714	22,113	22,722

1 **Table 32. Differences^a (Percent Differences) between Pairs of Model Scenarios at the Delta Outflow,**
 2 **Year-Round**

Alternative 3: In Delta—Delta Outflow			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	8,561 (10%)	-159 (-0.2%)
	AN	173 (0.3%)	-1,479 (-2.9%)
	BN	-1,195 (-5.2%)	-528 (-2.4%)
	D	1,362 (9.2%)	1,366 (9.3%)
	C	2,110 (18.6%)	802 (6.3%)
	All	3,143 (7.3%)	60 (0.1%)
FEB	W	11,026 (11.4%)	776 (0.7%)
	AN	3,000 (4.8%)	-552 (-0.8%)
	BN	-1,346 (-3.7%)	-664 (-1.8%)
	D	-390 (-1.9%)	-936 (-4.4%)
	C	-651 (-5%)	-458 (-3.6%)
	All	3,524 (6.7%)	-220 (-0.4%)
MAR	W	5,774 (7.3%)	259 (0.3%)
	AN	673 (1.2%)	-1,893 (-3.3%)
	BN	-2,558 (-10.6%)	-996 (-4.4%)
	D	-2,033 (-10.2%)	-2,138 (-10.7%)
	C	-152 (-1.3%)	-456 (-3.7%)
	All	1,024 (2.4%)	-901 (-2%)
APR	W	-6,207 (-11.4%)	-6,375 (-11.7%)
	AN	-7,874 (-24.6%)	-6,475 (-21.2%)
	BN	-5,143 (-23.5%)	-3,856 (-18.7%)
	D	-2,134 (-15.1%)	-1,405 (-10.5%)
	C	-100 (-1.1%)	-341 (-3.7%)
	All	-4,481 (-14.9%)	-3,985 (-13.5%)
MAY	W	-12,777 (-31.1%)	-4,617 (-14%)
	AN	-6,970 (-28.8%)	-4,479 (-20.6%)
	BN	-4,127 (-25.3%)	-1,424 (-10.5%)
	D	104 (1%)	216 (2.1%)
	C	205 (3.4%)	-81 (-1.3%)
	All	-5,723 (-25.4%)	-2,327 (-12.2%)
JUN	W	-7,794 (-33.2%)	17 (0.1%)
	AN	-1,204 (-10.2%)	-79 (-0.7%)
	BN	1,681 (21%)	742 (8.3%)
	D	1,143 (17.2%)	90 (1.2%)
	C	121 (2.3%)	-189 (-3.4%)
	All	-2,092 (-16.4%)	113 (1.1%)
JUL	W	-2,055 (-18%)	-2,021 (-17.7%)
	AN	-413 (-4.4%)	-3,208 (-26.2%)
	BN	-622 (-8.7%)	-1,139 (-14.9%)
	D	480 (9.6%)	-944 (-14.6%)
	C	1,117 (26.4%)	-477 (-8.2%)
	All	-549 (-6.9%)	-1,582 (-17.6%)

Alternative 3: In Delta—Delta Outflow			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	-1,341 (-25.1%)	-308 (-7.1%)
	AN	136 (3.4%)	-577 (-12.2%)
	BN	126 (3.2%)	-1,003 (-19.6%)
	D	-529 (-11%)	-1,048 (-19.6%)
	C	-121 (-3%)	-477 (-10.8%)
	All	-517 (-11.2%)	-653 (-13.7%)
SEP	W	-5,364 (-56.1%)	-15,873 (-79.1%)
	AN	-409 (-11.1%)	-8,318 (-71.8%)
	BN	45 (1.3%)	62 (1.8%)
	D	575 (17.2%)	904 (29.9%)
	C	2,746 (91.5%)	2,710 (89.3%)
	All	-1,225 (-23%)	-5,645 (-57.9%)
OCT	W	3,413 (52.6%)	380 (4%)
	AN	6,261 (155.7%)	1,300 (14.5%)
	BN	5,218 (116.6%)	1,641 (20.4%)
	D	4,364 (105%)	1,227 (16.8%)
	C	6,226 (149.7%)	3,777 (57.2%)
	All	4,758 (96.5%)	1,413 (17.1%)
NOV	W	-2,031 (-14.3%)	-3,786 (-23.7%)
	AN	-2,784 (-28.8%)	-4,630 (-40.2%)
	BN	-1,374 (-23.4%)	-4,191 (-48.3%)
	D	-1,360 (-19.6%)	-2,469 (-30.7%)
	C	203 (4%)	-477 (-8.3%)
	All	-1,555 (-16.9%)	-3,206 (-29.6%)
DEC	W	-1,755 (-3.6%)	1,239 (2.7%)
	AN	2,283 (12.7%)	1,178 (6.2%)
	BN	1,058 (8.9%)	777 (6.4%)
	D	379 (4.3%)	435 (4.9%)
	C	-234 (-4.2%)	-1,263 (-19.3%)
	All	8 (0%)	609 (2.8%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.3.2.5 San Joaquin River at Vernalis**

2 **Table 33. Mean Monthly Flows (cfs) for Model Scenarios in the San Joaquin River at Vernalis,**
 3 **Year-Round**

Alternative 3: In Delta—San Joaquin River at Vernalis				
Month	WYT^a	EXISTING CONDITIONS	NAA	A3_LL^T
JAN	W	9,089	9,681	9,794
	AN	5,447	6,011	5,988
	BN	2,326	2,220	2,248
	D	2,270	2,202	2,236
	C	1,667	1,592	1,592
	All	4,777	5,018	5,056
FEB	W	12,750	13,191	13,195
	AN	6,965	6,721	6,693
	BN	2,983	2,841	2,845
	D	2,590	2,269	2,246
	C	2,120	1,941	1,942
	All	6,388	6,361	6,354
MAR	W	14,374	15,235	15,242
	AN	6,284	6,364	6,365
	BN	2,949	2,476	2,476
	D	2,479	2,146	2,146
	C	1,813	1,688	1,688
	All	6,648	6,763	6,765
APR	W	11,955	12,457	12,449
	AN	6,014	6,042	6,043
	BN	4,490	3,922	3,924
	D	3,656	3,112	3,113
	C	1,983	1,796	1,796
	All	6,351	6,291	6,289
MAY	W	12,109	12,632	12,638
	AN	5,381	5,092	5,094
	BN	4,074	3,657	3,661
	D	3,308	2,823	2,825
	C	1,964	1,798	1,798
	All	6,148	6,069	6,072
JUN	W	11,058	6,820	6,823
	AN	2,965	2,678	2,681
	BN	2,051	1,870	1,875
	D	1,537	1,291	1,295
	C	1,020	956	956
	All	4,583	3,206	3,209
JUL	W	7,654	4,345	4,350
	AN	1,958	1,801	1,807
	BN	1,491	1,381	1,391
	D	1,295	1,100	1,107
	C	898	858	860
	All	3,239	2,184	2,190

Alternative 3: In Delta—San Joaquin River at Vernalis				
Month	WYT^a	EXISTING CONDITIONS	NAA	A3_LL_T
AUG	W	3,539	2,645	2,648
	AN	2,000	1,699	1,704
	BN	1,460	1,375	1,382
	D	1,375	1,225	1,230
	C	1,007	987	988
	All	2,072	1,710	1,714
SEP	W	3,519	3,127	3,129
	AN	2,355	2,164	2,166
	BN	1,829	1,748	1,752
	D	1,796	1,643	1,645
	C	1,402	1,378	1,380
	All	2,338	2,144	2,146
OCT	W	2,760	2,726	2,744
	AN	2,745	2,595	2,596
	BN	2,502	2,348	2,349
	D	2,945	2,790	2,792
	C	2,213	2,031	2,032
	All	2,639	2,515	2,521
NOV	W	2,534	2,411	2,418
	AN	3,182	3,193	3,154
	BN	2,150	1,997	1,997
	D	2,272	2,217	2,253
	C	1,968	1,898	1,898
	All	2,448	2,367	2,367
DEC	W	4,370	4,504	4,547
	AN	4,711	4,567	4,585
	BN	2,182	2,065	2,083
	D	2,129	2,166	2,163
	C	1,729	1,694	1,681
	All	3,219	3,211	3,227

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 34. Differences^a (Percent Differences) between Pairs of Model Scenarios in the San Joaquin**
 2 **River at Vernalis, Year-Round**

Alternative 3: In Delta—San Joaquin River at Vernalis			
Month	WYT ^b	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	705 (7.8%)	112 (1.2%)
	AN	541 (9.9%)	-23 (-0.4%)
	BN	-78 (-3.3%)	28 (1.3%)
	D	-35 (-1.5%)	34 (1.5%)
	C	-75 (-4.5%)	0 (0%)
	All	279 (5.8%)	38 (0.8%)
FEB	W	445 (3.5%)	4 (0%)
	AN	-272 (-3.9%)	-28 (-0.4%)
	BN	-138 (-4.6%)	4 (0.2%)
	D	-345 (-13.3%)	-24 (-1%)
	C	-178 (-8.4%)	1 (0%)
	All	-34 (-0.5%)	-7 (-0.1%)
MAR	W	868 (6%)	7 (0%)
	AN	81 (1.3%)	0 (0%)
	BN	-473 (-16%)	0 (0%)
	D	-333 (-13.4%)	0 (0%)
	C	-125 (-6.9%)	0 (0%)
	All	118 (1.8%)	2 (0%)
APR	W	494 (4.1%)	-8 (-0.1%)
	AN	29 (0.5%)	1 (0%)
	BN	-566 (-12.6%)	1 (0%)
	D	-544 (-14.9%)	1 (0%)
	C	-187 (-9.4%)	0 (0%)
	All	-62 (-1%)	-2 (0%)
MAY	W	528 (4.4%)	5 (0%)
	AN	-288 (-5.3%)	2 (0%)
	BN	-412 (-10.1%)	5 (0.1%)
	D	-483 (-14.6%)	2 (0.1%)
	C	-167 (-8.5%)	0 (0%)
	All	-76 (-1.2%)	3 (0%)
JUN	W	-4,235 (-38.3%)	3 (0%)
	AN	-283 (-9.6%)	3 (0.1%)
	BN	-175 (-8.5%)	6 (0.3%)
	D	-242 (-15.7%)	5 (0.4%)
	C	-64 (-6.2%)	1 (0.1%)
	All	-1,373 (-30%)	3 (0.1%)
JUL	W	-3,304 (-43.2%)	5 (0.1%)
	AN	-151 (-7.7%)	6 (0.3%)
	BN	-99 (-6.7%)	11 (0.8%)
	D	-188 (-14.5%)	7 (0.7%)
	C	-38 (-4.2%)	2 (0.3%)
	All	-1,049 (-32.4%)	6 (0.3%)

Alternative 3: In Delta—San Joaquin River at Vernalis			
Month	WYT^b	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	-891 (-25.2%)	4 (0.1%)
	AN	-297 (-14.8%)	5 (0.3%)
	BN	-77 (-5.3%)	8 (0.6%)
	D	-145 (-10.6%)	5 (0.4%)
	C	-19 (-1.9%)	1 (0.1%)
	All	-358 (-17.3%)	4 (0.2%)
SEP	W	-390 (-11.1%)	2 (0.1%)
	AN	-188 (-8%)	2 (0.1%)
	BN	-77 (-4.2%)	4 (0.2%)
	D	-151 (-8.4%)	2 (0.1%)
	C	-22 (-1.6%)	2 (0.2%)
	All	-191 (-8.2%)	2 (0.1%)
OCT	W	-16 (-0.6%)	18 (0.7%)
	AN	-149 (-5.4%)	1 (0%)
	BN	-153 (-6.1%)	1 (0%)
	D	-153 (-5.2%)	1 (0%)
	C	-181 (-8.2%)	1 (0%)
	All	-118 (-4.5%)	6 (0.2%)
NOV	W	-116 (-4.6%)	6 (0.3%)
	AN	-28 (-0.9%)	-39 (-1.2%)
	BN	-154 (-7.1%)	0 (0%)
	D	-20 (-0.9%)	35 (1.6%)
	C	-70 (-3.6%)	0 (0%)
	All	-80 (-3.3%)	0 (0%)
DEC	W	176 (4%)	43 (0.9%)
	AN	-126 (-2.7%)	18 (0.4%)
	BN	-99 (-4.5%)	18 (0.9%)
	D	34 (1.6%)	-3 (-0.1%)
	C	-48 (-2.8%)	-13 (-0.8%)
	All	7 (0.2%)	16 (0.5%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.3.2.6 Mokelumne River at the Delta**

2 **Table 35. Mean Monthly Flows (cfs) for Model Scenarios in the Mokelumne River at the Delta,**
 3 **Year-Round**

Alternative 3: In Delta—Mokelumne River at the Delta				
Month	WYT^a	EXISTING CONDITIONS	NAA	A3_LLТ
JAN	W	3,071	3,634	3,634
	AN	1,707	1,876	1,876
	BN	597	617	617
	D	495	493	493
	C	280	281	281
	All	1,460	1,660	1,660
FEB	W	3,290	3,781	3,781
	AN	2,525	2,913	2,913
	BN	1,011	1,035	1,035
	D	695	678	678
	C	426	442	442
	All	1,809	2,033	2,033
MAR	W	3,179	3,336	3,336
	AN	1,582	1,639	1,639
	BN	1,181	1,140	1,140
	D	754	691	691
	C	595	580	580
	All	1,662	1,700	1,700
APR	W	2,819	2,694	2,694
	AN	1,619	1,424	1,424
	BN	1,243	1,068	1,068
	D	623	550	550
	C	340	311	311
	All	1,503	1,384	1,384
MAY	W	3,170	2,885	2,885
	AN	1,439	1,179	1,179
	BN	976	812	812
	D	406	333	333
	C	181	170	170
	All	1,463	1,289	1,289
JUN	W	1,755	1,415	1,415
	AN	851	631	631
	BN	471	366	366
	D	93	76	76
	C	52	44	44
	All	779	616	616
JUL	W	772	469	469
	AN	347	167	167
	BN	123	70	70
	D	7	6	6
	C	3	3	3
	All	315	183	183

Alternative 3: In Delta—Mokelumne River at the Delta				
Month	WYT^a	EXISTING CONDITIONS	NAA	A3_LLТ
AUG	W	703	346	346
	AN	328	216	216
	BN	112	71	71
	D	4	4	4
	C	2	2	2
	All	289	156	156
SEP	W	702	497	497
	AN	333	259	259
	BN	114	91	91
	D	9	9	9
	C	5	5	5
	All	291	213	213
OCT	W	161	147	147
	AN	178	180	180
	BN	154	144	144
	D	180	160	160
	C	117	123	123
	All	158	150	150
NOV	W	487	431	431
	AN	912	855	855
	BN	347	301	301
	D	380	327	327
	C	195	186	186
	All	474	429	429
DEC	W	1,504	1,732	1,732
	AN	1,411	1,628	1,628
	BN	447	472	472
	D	384	374	374
	C	204	209	209
	All	887	999	999

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 36. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Mokelumne**
 2 **River at the Delta, Year-Round**

Alternative 3: In Delta—Mokelumne River at the Delta			
Month	WYT ^b	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	563 (18.3%)	0 (0%)
	AN	169 (9.9%)	0 (0%)
	BN	21 (3.4%)	0 (0%)
	D	-2 (-0.5%)	0 (0%)
	C	1 (0.3%)	0 (0%)
	All	201 (13.8%)	0 (0%)
FEB	W	491 (14.9%)	0 (0%)
	AN	388 (15.4%)	0 (0%)
	BN	24 (2.4%)	0 (0%)
	D	-17 (-2.4%)	0 (0%)
	C	15 (3.5%)	0 (0%)
	All	223 (12.3%)	0 (0%)
MAR	W	158 (5%)	0 (0%)
	AN	57 (3.6%)	0 (0%)
	BN	-41 (-3.4%)	0 (0%)
	D	-63 (-8.3%)	0 (0%)
	C	-15 (-2.5%)	0 (0%)
	All	38 (2.3%)	0 (0%)
APR	W	-125 (-4.4%)	0 (0%)
	AN	-194 (-12%)	0 (0%)
	BN	-175 (-14.1%)	0 (0%)
	D	-73 (-11.7%)	0 (0%)
	C	-29 (-8.7%)	0 (0%)
	All	-120 (-8%)	0 (0%)
MAY	W	-284 (-9%)	0 (0%)
	AN	-260 (-18.1%)	0 (0%)
	BN	-164 (-16.8%)	0 (0%)
	D	-72 (-17.8%)	0 (0%)
	C	-11 (-6.1%)	0 (0%)
	All	-174 (-11.9%)	0 (0%)
JUN	W	-339 (-19.3%)	0 (0%)
	AN	-220 (-25.8%)	0 (0%)
	BN	-105 (-22.3%)	0 (0%)
	D	-17 (-18.8%)	0 (0%)
	C	-8 (-14.7%)	0 (0%)
	All	-163 (-20.9%)	0 (0%)
JUL	W	-303 (-39.3%)	0 (0%)
	AN	-180 (-51.8%)	0 (0%)
	BN	-54 (-43.4%)	0 (0%)
	D	0 (-3.1%)	0 (0%)
	C	0 (-4.4%)	0 (0%)
	All	-132 (-42%)	0 (0%)

Alternative 3: In Delta—Mokelumne River at the Delta			
Month	WYT^b	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	-357 (-50.8%)	0 (0%)
	AN	-113 (-34.3%)	0 (0%)
	BN	-41 (-36.5%)	0 (0%)
	D	0 (-0.5%)	0 (0%)
	C	0 (-3.1%)	0 (0%)
	All	-133 (-46.1%)	0 (0%)
SEP	W	-205 (-29.3%)	0 (0%)
	AN	-74 (-22.2%)	0 (0%)
	BN	-23 (-20.5%)	0 (0%)
	D	-1 (-5.9%)	0 (0%)
	C	0 (4.6%)	0 (0%)
	All	-78 (-26.9%)	0 (0%)
OCT	W	-14 (-8.7%)	0 (0%)
	AN	2 (1.1%)	0 (0%)
	BN	-10 (-6.6%)	0 (0%)
	D	-20 (-11.1%)	0 (0%)
	C	6 (4.7%)	0 (0%)
	All	-7 (-4.7%)	0 (0%)
NOV	W	-56 (-11.5%)	0 (0%)
	AN	-57 (-6.3%)	0 (0%)
	BN	-46 (-13.2%)	0 (0%)
	D	-53 (-13.9%)	0 (0%)
	C	-9 (-4.6%)	0 (0%)
	All	-45 (-9.5%)	0 (0%)
DEC	W	228 (15.2%)	0 (0%)
	AN	217 (15.4%)	0 (0%)
	BN	25 (5.5%)	0 (0%)
	D	-10 (-2.6%)	0 (0%)
	C	6 (2.9%)	0 (0%)
	All	113 (12.7%)	0 (0%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.4 Alternative 4**

2 **11C.4.1 Upstream**

3 **11C.4.1.1 Sacramento River at Keswick**

4 **Table 1. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Keswick,**
 5 **Year-Round**

Alternative 4: Upstream—Sacramento River at Keswick							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
JAN	W	16,526	18,233	19,502	19,415	18,545	18,577
	AN	8,318	8,205	9,589	9,370	7,795	7,694
	BN	4,502	4,184	5,129	5,163	4,342	4,543
	D	3,996	4,096	4,043	4,375	3,803	3,763
	C	3,490	4,238	4,780	4,357	4,364	3,506
	All	8,614	9,215	10,050	10,006	9,235	9,131
FEB	W	18,577	20,853	21,375	21,503	20,888	20,905
	AN	14,409	15,297	16,952	16,830	15,871	15,709
	BN	5,981	5,544	7,083	6,657	6,301	6,664
	D	3,684	3,410	3,415	3,408	3,407	3,447
	C	3,599	3,372	3,470	3,429	3,358	3,429
	All	10,355	11,039	11,725	11,667	11,261	11,323
MAR	W	16,200	17,065	17,171	17,165	17,139	17,135
	AN	9,131	8,818	9,319	9,239	8,803	8,541
	BN	5,200	4,318	4,896	4,745	4,252	4,171
	D	3,903	3,814	3,746	3,753	3,753	3,992
	C	3,487	3,583	3,940	3,718	3,842	3,708
	All	8,728	8,800	9,043	8,973	8,834	8,814
APR	W	9,418	9,131	9,155	9,132	9,009	9,004
	AN	6,182	5,536	5,833	5,712	5,827	5,859
	BN	5,426	5,009	5,398	5,242	5,414	4,914
	D	5,803	5,533	5,774	5,609	5,776	5,502
	C	6,472	6,550	6,494	6,431	6,498	6,424
	All	7,038	6,733	6,896	6,799	6,852	6,699
MAY	W	9,508	7,149	7,589	7,345	7,541	7,296
	AN	7,709	7,783	8,750	8,482	8,971	8,723
	BN	7,193	6,272	7,383	6,481	7,169	6,383
	D	7,349	7,681	8,721	8,198	8,608	7,899
	C	6,715	7,316	7,505	7,424	7,499	7,359
	All	7,967	7,233	7,960	7,563	7,915	7,490
JUN	W	10,375	10,274	11,390	10,618	11,240	10,485
	AN	11,147	12,032	13,532	11,648	13,610	11,861
	BN	10,758	10,947	11,929	10,863	11,711	10,690
	D	11,224	11,898	12,667	12,120	12,648	11,842
	C	10,392	11,350	11,276	11,240	11,456	11,105
	All	10,742	11,160	12,059	11,231	12,008	11,110

Alternative 4: Upstream—Sacramento River at Keswick							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
JUL	W	12,779	14,098	14,332	14,135	14,230	14,242
	AN	14,056	15,098	15,088	14,809	14,940	14,730
	BN	12,965	13,177	13,090	12,910	13,020	12,840
	D	13,302	13,727	13,117	13,495	12,764	12,991
	C	12,849	11,935	11,346	11,681	11,605	11,837
	All	13,123	13,689	13,527	13,525	13,421	13,447
AUG	W	11,029	10,491	10,385	10,820	10,445	10,848
	AN	10,449	11,641	11,427	11,946	11,287	11,964
	BN	10,139	10,261	9,961	10,673	10,172	10,764
	D	10,627	10,986	9,485	10,772	9,420	10,657
	C	9,473	7,348	7,582	7,707	6,761	7,710
	All	10,476	10,269	9,857	10,494	9,757	10,496
SEP	W	9,385	12,833	7,110	7,242	13,194	13,550
	AN	5,862	9,898	6,205	6,304	9,315	10,153
	BN	5,492	5,601	5,516	6,654	4,836	5,521
	D	5,985	4,469	5,160	5,573	5,053	5,223
	C	5,563	4,368	5,187	5,632	5,239	5,251
	All	6,899	8,094	5,996	6,402	8,248	8,640
OCT	W	6,886	7,034	6,437	6,599	6,895	6,738
	AN	7,145	7,152	6,886	7,339	7,247	8,230
	BN	6,396	7,072	6,543	6,415	6,435	6,331
	D	6,128	6,494	6,663	6,726	6,326	6,788
	C	5,902	5,752	6,148	6,897	5,610	5,772
	All	6,530	6,752	6,528	6,747	6,555	6,756
NOV	W	6,672	7,539	5,788	5,893	6,369	6,500
	AN	6,224	7,134	4,559	4,519	5,469	6,115
	BN	5,088	5,936	4,178	4,445	4,845	4,679
	D	5,669	5,406	4,256	4,365	4,535	4,598
	C	4,822	4,710	4,294	4,062	4,413	4,246
	All	5,845	6,324	4,778	4,841	5,288	5,385
DEC	W	12,766	11,022	12,552	12,997	10,870	11,173
	AN	5,531	5,377	5,453	5,165	5,472	5,318
	BN	5,413	5,195	5,712	5,343	5,500	5,250
	D	4,215	3,936	4,314	3,925	3,973	3,728
	C	3,828	3,582	3,777	3,560	3,613	3,584
	All	7,267	6,557	7,253	7,172	6,587	6,560

1 **Table 2. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Keswick, Year-Round**

Alternative 4: Upstream—Sacramento River at Keswick									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
JAN	W	2,976 (18%)	1,269 (7%)	2,889 (17.5%)	1,181 (6.5%)	2,018 (12.2%)	311 (1.7%)	2,051 (12.4%)	344 (1.9%)
	AN	1,272 (15.3%)	1,385 (16.9%)	1,052 (12.7%)	1,165 (14.2%)	-522 (-6.3%)	-409 (-5%)	-623 (-7.5%)	-510 (-6.2%)
	BN	628 (13.9%)	946 (22.6%)	661 (14.7%)	979 (23.4%)	-160 (-3.5%)	159 (3.8%)	41 (0.9%)	359 (8.6%)
	D	48 (1.2%)	-53 (-1.3%)	379 (9.5%)	279 (6.8%)	-193 (-4.8%)	-293 (-7.2%)	-233 (-5.8%)	-333 (-8.1%)
	C	1,289 (36.9%)	542 (12.8%)	867 (24.8%)	119 (2.8%)	873 (25%)	126 (3%)	15 (0.4%)	-732 (-17.3%)
	All	1,436 (16.7%)	834 (9.1%)	1,393 (16.2%)	791 (8.6%)	622 (7.2%)	20 (0.2%)	517 (6%)	-84 (-0.9%)
FEB	W	2,798 (15.1%)	522 (2.5%)	2,925 (15.7%)	649 (3.1%)	2,311 (12.4%)	34 (0.2%)	2,328 (12.5%)	51 (0.2%)
	AN	2,542 (17.6%)	1,655 (10.8%)	2,420 (16.8%)	1,533 (10%)	1,461 (10.1%)	574 (3.8%)	1,300 (9%)	412 (2.7%)
	BN	1,102 (18.4%)	1,539 (27.8%)	675 (11.3%)	1,113 (20.1%)	320 (5.3%)	757 (13.7%)	683 (11.4%)	1,120 (20.2%)
	D	-269 (-7.3%)	5 (0.1%)	-276 (-7.5%)	-2 (-0.1%)	-276 (-7.5%)	-2 (-0.1%)	-237 (-6.4%)	37 (1.1%)
	C	-129 (-3.6%)	97 (2.9%)	-170 (-4.7%)	57 (1.7%)	-241 (-6.7%)	-15 (-0.4%)	-170 (-4.7%)	56 (1.7%)
	All	1,369 (13.2%)	686 (6.2%)	1,312 (12.7%)	628 (5.7%)	905 (8.7%)	221 (2%)	968 (9.3%)	284 (2.6%)
MAR	W	971 (6%)	106 (0.6%)	965 (6%)	100 (0.6%)	939 (5.8%)	73 (0.4%)	935 (5.8%)	70 (0.4%)
	AN	188 (2.1%)	501 (5.7%)	108 (1.2%)	421 (4.8%)	-328 (-3.6%)	-15 (-0.2%)	-590 (-6.5%)	-277 (-3.1%)
	BN	-303 (-5.8%)	579 (13.4%)	-455 (-8.7%)	427 (9.9%)	-948 (-18.2%)	-66 (-1.5%)	-1,028 (-19.8%)	-146 (-3.4%)
	D	-157 (-4%)	-68 (-1.8%)	-151 (-3.9%)	-61 (-1.6%)	-150 (-3.9%)	-61 (-1.6%)	89 (2.3%)	178 (4.7%)
	C	452 (13%)	356 (9.9%)	231 (6.6%)	134 (3.8%)	355 (10.2%)	259 (7.2%)	221 (6.3%)	124 (3.5%)
	All	315 (3.6%)	243 (2.8%)	245 (2.8%)	172 (2%)	107 (1.2%)	34 (0.4%)	86 (1%)	14 (0.2%)
APR	W	-263 (-2.8%)	25 (0.3%)	-286 (-3%)	2 (0%)	-409 (-4.3%)	-122 (-1.3%)	-413 (-4.4%)	-126 (-1.4%)
	AN	-349 (-5.6%)	297 (5.4%)	-470 (-7.6%)	176 (3.2%)	-355 (-5.7%)	291 (5.3%)	-323 (-5.2%)	323 (5.8%)
	BN	-29 (-0.5%)	389 (7.8%)	-185 (-3.4%)	233 (4.7%)	-12 (-0.2%)	406 (8.1%)	-513 (-9.4%)	-95 (-1.9%)
	D	-29 (-0.5%)	241 (4.4%)	-194 (-3.3%)	76 (1.4%)	-27 (-0.5%)	243 (4.4%)	-300 (-5.2%)	-31 (-0.6%)
	C	22 (0.3%)	-56 (-0.9%)	-40 (-0.6%)	-119 (-1.8%)	26 (0.4%)	-53 (-0.8%)	-48 (-0.7%)	-126 (-1.9%)
	All	-142 (-2%)	162 (2.4%)	-239 (-3.4%)	65 (1%)	-186 (-2.6%)	119 (1.8%)	-339 (-4.8%)	-34 (-0.5%)

Alternative 4: Upstream—Sacramento River at Keswick									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
MAY	W	-1,919 (-20.2%)	440 (6.2%)	-2,163 (-22.7%)	196 (2.7%)	-1,967 (-20.7%)	392 (5.5%)	-2,213 (-23.3%)	146 (2%)
	AN	1,041 (13.5%)	967 (12.4%)	773 (10%)	699 (9%)	1,263 (16.4%)	1,188 (15.3%)	1,014 (13.2%)	939 (12.1%)
	BN	190 (2.6%)	1,111 (17.7%)	-712 (-9.9%)	209 (3.3%)	-24 (-0.3%)	898 (14.3%)	-810 (-11.3%)	111 (1.8%)
	D	1,372 (18.7%)	1,040 (13.5%)	849 (11.6%)	516 (6.7%)	1,259 (17.1%)	927 (12.1%)	550 (7.5%)	218 (2.8%)
	C	790 (11.8%)	190 (2.6%)	709 (10.6%)	109 (1.5%)	784 (11.7%)	184 (2.5%)	644 (9.6%)	44 (0.6%)
	All	-7 (-0.1%)	727 (10%)	-404 (-5.1%)	329 (4.6%)	-52 (-0.7%)	682 (9.4%)	-476 (-6%)	257 (3.6%)
JUN	W	1,015 (9.8%)	1,116 (10.9%)	242 (2.3%)	343 (3.3%)	865 (8.3%)	966 (9.4%)	110 (1.1%)	211 (2.1%)
	AN	2,385 (21.4%)	1,500 (12.5%)	501 (4.5%)	-383 (-3.2%)	2,463 (22.1%)	1,578 (13.1%)	714 (6.4%)	-171 (-1.4%)
	BN	1,171 (10.9%)	982 (9%)	105 (1%)	-84 (-0.8%)	952 (8.9%)	763 (7%)	-68 (-0.6%)	-257 (-2.4%)
	D	1,443 (12.9%)	769 (6.5%)	897 (8%)	222 (1.9%)	1,425 (12.7%)	750 (6.3%)	618 (5.5%)	-56 (-0.5%)
	C	884 (8.5%)	-74 (-0.7%)	848 (8.2%)	-111 (-1%)	1,064 (10.2%)	106 (0.9%)	713 (6.9%)	-245 (-2.2%)
	All	1,317 (12.3%)	899 (8.1%)	489 (4.6%)	71 (0.6%)	1,266 (11.8%)	848 (7.6%)	368 (3.4%)	-50 (-0.5%)
JUL	W	1,553 (12.1%)	234 (1.7%)	1,355 (10.6%)	37 (0.3%)	1,451 (11.4%)	132 (0.9%)	1,463 (11.4%)	144 (1%)
	AN	1,032 (7.3%)	-9 (-0.1%)	753 (5.4%)	-288 (-1.9%)	884 (6.3%)	-158 (-1%)	674 (4.8%)	-367 (-2.4%)
	BN	125 (1%)	-87 (-0.7%)	-55 (-0.4%)	-267 (-2%)	55 (0.4%)	-157 (-1.2%)	-125 (-1%)	-337 (-2.6%)
	D	-185 (-1.4%)	-610 (-4.4%)	192 (1.4%)	-232 (-1.7%)	-538 (-4%)	-963 (-7%)	-311 (-2.3%)	-736 (-5.4%)
	C	-1,504 (-11.7%)	-589 (-4.9%)	-1,168 (-9.1%)	-254 (-2.1%)	-1,245 (-9.7%)	-330 (-2.8%)	-1,013 (-7.9%)	-98 (-0.8%)
	All	404 (3.1%)	-162 (-1.2%)	402 (3.1%)	-164 (-1.2%)	298 (2.3%)	-268 (-2%)	325 (2.5%)	-241 (-1.8%)
AUG	W	-644 (-5.8%)	-106 (-1%)	-210 (-1.9%)	329 (3.1%)	-584 (-5.3%)	-45 (-0.4%)	-181 (-1.6%)	358 (3.4%)
	AN	978 (9.4%)	-214 (-1.8%)	1,498 (14.3%)	306 (2.6%)	838 (8%)	-354 (-3%)	1,516 (14.5%)	324 (2.8%)
	BN	-178 (-1.8%)	-300 (-2.9%)	534 (5.3%)	412 (4%)	33 (0.3%)	-89 (-0.9%)	625 (6.2%)	503 (4.9%)
	D	-1,143 (-10.8%)	-1,501 (-13.7%)	145 (1.4%)	-214 (-1.9%)	-1,208 (-11.4%)	-1,566 (-14.3%)	30 (0.3%)	-328 (-3%)
	C	-1,891 (-20%)	234 (3.2%)	-1,766 (-18.6%)	359 (4.9%)	-2,712 (-28.6%)	-587 (-8%)	-1,763 (-18.6%)	363 (4.9%)
	All	-619 (-5.9%)	-411 (-4%)	17 (0.2%)	225 (2.2%)	-719 (-6.9%)	-511 (-5%)	20 (0.2%)	228 (2.2%)

Alternative 4: Upstream—Sacramento River at Keswick									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
SEP	W	-2,274 (-24.2%)	-5,723 (-44.6%)	-2,143 (-22.8%)	-5,592 (-43.6%)	3,809 (40.6%)	361 (2.8%)	4,165 (44.4%)	717 (5.6%)
	AN	342 (5.8%)	-3,693 (-37.3%)	441 (7.5%)	-3,594 (-36.3%)	3,452 (58.9%)	-583 (-5.9%)	4c290 (73.2%)	255 (2.6%)
	BN	24 (0.4%)	-85 (-1.5%)	1,161 (21.1%)	1,053 (18.8%)	-656 (-11.9%)	-765 (-13.7%)	29 (0.5%)	-80 (-1.4%)
	D	-825 (-13.8%)	692 (15.5%)	-412 (-6.9%)	1,105 (24.7%)	-933 (-15.6%)	584 (13.1%)	-763 (-12.7%)	754 (16.9%)
	C	-376 (-6.8%)	818 (18.7%)	69 (1.2%)	1,264 (28.9%)	-324 (-5.8%)	871 (19.9%)	-312 (-5.6%)	883 (20.2%)
	All	-903 (-13.1%)	-2,098 (-25.9%)	-497 (-7.2%)	-1,692 (-20.9%)	1,349 (19.6%)	154 (1.9%)	1,740 (25.2%)	546 (6.7%)
OCT	W	-448 (-6.5%)	-597 (-8.5%)	-287 (-4.2%)	-436 (-6.2%)	9 (0.1%)	-140 (-2%)	-148 (-2.1%)	-297 (-4.2%)
	AN	-258 (-3.6%)	-265 (-3.7%)	195 (2.7%)	188 (2.6%)	102 (1.4%)	95 (1.3%)	1,085 (15.2%)	1,078 (15.1%)
	BN	147 (2.3%)	-529 (-7.5%)	19 (0.3%)	-657 (-9.3%)	39 (0.6%)	-637 (-9%)	-65 (-1%)	-741 (-10.5%)
	D	535 (8.7%)	168 (2.6%)	598 (9.8%)	231 (3.6%)	198 (3.2%)	-168 (-2.6%)	660 (10.8%)	294 (4.5%)
	C	246 (4.2%)	396 (6.9%)	995 (16.9%)	1,145 (19.9%)	-293 (-5%)	-142 (-2.5%)	-130 (-2.2%)	21 (0.4%)
	All	-2 (0%)	-224 (-3.3%)	218 (3.3%)	-4 (-0.1%)	25 (0.4%)	-197 (-2.9%)	227 (3.5%)	5 (0.1%)
NOV	W	-885 (-13.3%)	-1,752 (-23.2%)	-779 (-11.7%)	-1,646 (-21.8%)	-304 (-4.6%)	-1,170 (-15.5%)	-172 (-2.6%)	-1,039 (-13.8%)
	AN	-1,665 (-26.7%)	-2,575 (-36.1%)	-1,705 (-27.4%)	-2,615 (-36.7%)	-755 (-12.1%)	-1,665 (-23.3%)	-109 (-1.8%)	-1,019 (-14.3%)
	BN	-909 (-17.9%)	-1,757 (-29.6%)	-643 (-12.6%)	-1,491 (-25.1%)	-242 (-4.8%)	-1,090 (-18.4%)	-409 (-8%)	-1,257 (-21.2%)
	D	-1,413 (-24.9%)	-1,150 (-21.3%)	-1,304 (-23%)	-1,041 (-19.3%)	-1,134 (-20%)	-871 (-16.1%)	-1,071 (-18.9%)	-808 (-15%)
	C	-529 (-11%)	-416 (-8.8%)	-761 (-15.8%)	-648 (-13.8%)	-410 (-8.5%)	-297 (-6.3%)	-577 (-12%)	-464 (-9.9%)
	All	-1,067 (-18.3%)	-1,545 (-24.4%)	-1,004 (-17.2%)	-1,483 (-23.4%)	-557 (-9.5%)	-1,036 (-16.4%)	-460 (-7.9%)	-939 (-14.8%)
DEC	W	-214 (-1.7%)	1,529 (13.9%)	231 (1.8%)	1,975 (17.9%)	-1,896 (-14.9%)	-153 (-1.4%)	-1,593 (-12.5%)	150 (1.4%)
	AN	-78 (-1.4%)	76 (1.4%)	-366 (-6.6%)	-212 (-3.9%)	-59 (-1.1%)	95 (1.8%)	-213 (-3.9%)	-59 (-1.1%)
	BN	299 (5.5%)	518 (10%)	-70 (-1.3%)	148 (2.9%)	87 (1.6%)	306 (5.9%)	-163 (-3%)	55 (1.1%)
	D	100 (2.4%)	378 (9.6%)	-290 (-6.9%)	-11 (-0.3%)	-242 (-5.7%)	37 (0.9%)	-487 (-11.6%)	-208 (-5.3%)
	C	-51 (-1.3%)	195 (5.4%)	-268 (-7%)	-22 (-0.6%)	-215 (-5.6%)	31 (0.9%)	-244 (-6.4%)	2 (0.1%)
	All	-14 (-0.2%)	696 (10.6%)	-95 (-1.3%)	615 (9.4%)	-679 (-9.4%)	30 (0.5%)	-707 (-9.7%)	3 (0%)

1 **11C.4.1.2 Sacramento River Upstream of Red Bluff**

2 **Table 3. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River Upstream of Red**
 3 **Bluff, Year-Round**

Alternative 4: Upstream—Sacramento River Upstream of Red Bluff							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LLТ			
				H1	H2	H3	H4
JAN	W	28,036	30,390	31,643	31,556	30,699	30,731
	AN	16,725	16,885	18,262	18,047	16,472	16,376
	BN	9,381	9,146	10,082	10,120	9,299	9,502
	D	7,098	7,262	7,202	7,538	6,967	6,930
	C	6,143	6,942	7,484	7,073	7,077	6,220
	All	15,396	16,278	17,103	17,064	16,297	16,194
FEB	W	30,255	33,472	33,983	34,114	33,502	33,520
	AN	23,492	24,828	26,470	26,350	25,402	25,243
	BN	12,005	11,614	13,144	12,718	12,368	12,729
	D	8,947	8,790	8,792	8,783	8,788	8,828
	C	6,599	6,378	6,474	6,436	6,365	6,443
	All	18,010	19,092	19,771	19,714	19,312	19,376
MAR	W	25,004	26,210	26,313	26,309	26,282	26,280
	AN	16,599	16,428	16,920	16,841	16,409	16,149
	BN	9,333	8,474	9,035	8,895	8,402	8,320
	D	8,385	8,300	8,231	8,238	8,238	8,477
	C	5,999	6,101	6,461	6,240	6,362	6,226
	All	14,669	14,876	15,114	15,047	14,909	14,888
APR	W	15,172	14,842	14,865	14,844	14,719	14,716
	AN	10,477	9,761	10,056	9,971	10,051	10,086
	BN	8,711	8,282	8,671	8,511	8,689	8,192
	D	7,948	7,661	7,897	7,732	7,902	7,628
	C	7,742	7,829	7,772	7,714	7,777	7,706
	All	10,709	10,376	10,536	10,445	10,494	10,343
MAY	W	12,541	10,073	10,509	10,268	10,464	10,220
	AN	10,012	10,047	11,010	10,743	11,230	10,982
	BN	8,781	7,875	8,976	8,076	8,768	7,988
	D	8,677	9,012	10,043	9,521	9,935	9,230
	C	7,746	8,348	8,538	8,460	8,533	8,395
	All	9,979	9,208	9,930	9,535	9,888	9,466
JUN	W	11,905	11,720	12,828	12,058	12,681	11,929
	AN	12,001	12,789	14,280	12,400	14,358	12,611
	BN	11,464	11,651	12,615	11,557	12,406	11,393
	D	11,777	12,441	13,193	12,650	13,183	12,383
	C	10,885	11,881	11,754	11,722	11,937	11,590
	All	11,666	12,046	12,927	12,103	12,881	11,987
JUL	W	13,255	14,525	14,748	14,556	14,651	14,668
	AN	14,129	15,142	15,122	14,852	14,975	14,774
	BN	13,011	13,258	13,156	12,982	13,098	12,924
	D	13,368	13,826	13,203	13,582	12,859	13,090
	C	13,005	12,149	11,659	11,908	11,851	12,066
	All	13,329	13,898	13,740	13,729	13,630	13,659

Alternative 4: Upstream—Sacramento River Upstream of Red Bluff							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL			
				H1	H2	H3	H4
AUG	W	11,284	10,735	10,625	11,061	10,689	11,092
	AN	10,580	11,775	11,561	12,080	11,424	12,099
	BN	10,202	10,364	10,057	10,769	10,277	10,869
	D	10,747	11,143	9,637	10,921	9,582	10,818
	C	9,590	7,665	7,915	7,999	7,128	8,026
	All	10,630	10,464	10,052	10,681	9,962	10,692
SEP	W	9,856	13,312	7,588	7,717	13,674	14,028
	AN	6,279	10,320	6,629	6,722	9,739	10,572
	BN	5,821	5,963	5,878	7,009	5,201	5,881
	D	6,391	4,911	5,608	6,013	5,505	5,667
	C	5,887	4,838	5,660	6,090	5,727	5,683
	All	7,302	8,535	6,439	6,838	8,695	9,075
OCT	W	8,020	8,188	7,612	7,769	8,048	7,889
	AN	8,112	8,162	7,905	8,362	8,257	9,241
	BN	7,094	7,778	7,269	7,127	7,146	7,029
	D	6,903	7,287	7,456	7,517	7,107	7,562
	C	6,670	6,537	6,965	7,680	6,411	6,553
	All	7,432	7,675	7,467	7,678	7,478	7,673
NOV	W	9,876	10,821	9,070	9,176	9,653	9,787
	AN	8,144	9,098	6,522	6,478	7,430	8,071
	BN	6,791	7,682	5,925	6,194	6,597	6,432
	D	7,548	7,347	6,193	6,305	6,480	6,540
	C	5,811	5,703	5,280	5,044	5,416	5,250
	All	7,990	8,521	6,974	7,037	7,489	7,586
DEC	W	21,015	19,613	21,152	21,598	19,469	19,771
	AN	10,019	10,053	10,146	9,861	10,161	10,004
	BN	8,408	8,228	8,757	8,386	8,541	8,292
	D	7,292	7,091	7,478	7,089	7,137	6,893
	C	5,628	5,433	5,647	5,433	5,480	5,441
	All	11,989	11,446	12,155	12,074	11,487	11,458

1 **Table 4. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **Upstream of Red Bluff, Year-Round**

Alternative 4: Upstream—Sacramento River Upstream of Red Bluff									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
JAN	W	3,607 (12.9%)	1,253 (4.1%)	3,520 (12.6%)	1,166 (3.8%)	2,663 (9.5%)	309 (1%)	2,695 (9.6%)	341 (1.1%)
	AN	1,538 (9.2%)	1,377 (8.2%)	1,323 (7.9%)	1,162 (6.9%)	-252 (-1.5%)	-413 (-2.4%)	-349 (-2.1%)	-510 (-3%)
	BN	701 (7.5%)	935 (10.2%)	738 (7.9%)	973 (10.6%)	-82 (-0.9%)	153 (1.7%)	121 (1.3%)	356 (3.9%)
	D	104 (1.5%)	-60 (-0.8%)	440 (6.2%)	276 (3.8%)	-131 (-1.8%)	-295 (-4.1%)	-167 (-2.4%)	-331 (-4.6%)
	C	1,341 (21.8%)	542 (7.8%)	930 (15.1%)	131 (1.9%)	934 (15.2%)	135 (1.9%)	77 (1.2%)	-722 (-10.4%)
	All	1,707 (11.1%)	825 (5.1%)	1,668 (10.8%)	786 (4.8%)	901 (5.9%)	19 (0.1%)	799 (5.2%)	-84 (-0.5%)
FEB	W	3,728 (12.3%)	512 (1.5%)	3,859 (12.8%)	643 (1.9%)	3,247 (10.7%)	30 (0.1%)	3,265 (10.8%)	49 (0.1%)
	AN	2,979 (12.7%)	1,643 (6.6%)	2,858 (12.2%)	1,522 (6.1%)	1,910 (8.1%)	574 (2.3%)	1,752 (7.5%)	415 (1.7%)
	BN	1,139 (9.5%)	1,530 (13.2%)	714 (5.9%)	1,104 (9.5%)	363 (3%)	754 (6.5%)	725 (6%)	1,115 (9.6%)
	D	-155 (-1.7%)	3 (0%)	-164 (-1.8%)	-7 (-0.1%)	-159 (-1.8%)	-2 (0%)	-119 (-1.3%)	38 (0.4%)
	C	-125 (-1.9%)	96 (1.5%)	-163 (-2.5%)	58 (0.9%)	-234 (-3.5%)	-13 (-0.2%)	-156 (-2.4%)	64 (1%)
	All	1,760 (9.8%)	679 (3.6%)	1,704 (9.5%)	622 (3.3%)	1,302 (7.2%)	220 (1.2%)	1,366 (7.6%)	284 (1.5%)
MAR	W	1,310 (5.2%)	103 (0.4%)	1,305 (5.2%)	99 (0.4%)	1,279 (5.1%)	72 (0.3%)	1,276 (5.1%)	69 (0.3%)
	AN	321 (1.9%)	492 (3%)	242 (1.5%)	413 (2.5%)	-190 (-1.1%)	-20 (-0.1%)	-450 (-2.7%)	-279 (-1.7%)
	BN	-297 (-3.2%)	562 (6.6%)	-438 (-4.7%)	421 (5%)	-931 (-10%)	-72 (-0.8%)	-1,013 (-10.9%)	-154 (-1.8%)
	D	-154 (-1.8%)	-69 (-0.8%)	-147 (-1.7%)	-62 (-0.7%)	-147 (-1.8%)	-62 (-0.7%)	92 (1.1%)	177 (2.1%)
	C	462 (7.7%)	360 (5.9%)	241 (4%)	138 (2.3%)	363 (6.1%)	261 (4.3%)	228 (3.8%)	125 (2%)
	All	445 (3%)	238 (1.6%)	378 (2.6%)	170 (1.1%)	240 (1.6%)	32 (0.2%)	219 (1.5%)	12 (0.1%)
APR	W	-307 (-2%)	23 (0.2%)	-328 (-2.2%)	2 (0%)	-453 (-3%)	-123 (-0.8%)	-456 (-3%)	-126 (-0.9%)
	AN	-421 (-4%)	295 (3%)	-507 (-4.8%)	209 (2.1%)	-426 (-4.1%)	290 (3%)	-392 (-3.7%)	325 (3.3%)
	BN	-40 (-0.5%)	389 (4.7%)	-200 (-2.3%)	229 (2.8%)	-22 (-0.3%)	406 (4.9%)	-519 (-6%)	-91 (-1.1%)
	D	-52 (-0.7%)	235 (3.1%)	-216 (-2.7%)	71 (0.9%)	-46 (-0.6%)	241 (3.1%)	-320 (-4%)	-33 (-0.4%)
	C	30 (0.4%)	-57 (-0.7%)	-28 (-0.4%)	-115 (-1.5%)	34 (0.4%)	-53 (-0.7%)	-36 (-0.5%)	-124 (-1.6%)
	All	-173 (-1.6%)	160 (1.5%)	-264 (-2.5%)	69 (0.7%)	-215 (-2%)	118 (1.1%)	-366 (-3.4%)	-33 (-0.3%)

Alternative 4: Upstream—Sacramento River Upstream of Red Bluff									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
MAY	W	-2,031 (-16.2%)	437 (4.3%)	-2,273 (-18.1%)	195 (1.9%)	-2,077 (-16.6%)	391 (3.9%)	-2,321 (-18.5%)	147 (1.5%)
	AN	998 (10%)	963 (9.6%)	731 (7.3%)	696 (6.9%)	1,218 (12.2%)	1,184 (11.8%)	970 (9.7%)	935 (9.3%)
	BN	195 (2.2%)	1,101 (14%)	-705 (-8%)	201 (2.6%)	-13 (-0.1%)	893 (11.3%)	-793 (-9%)	113 (1.4%)
	D	1,366 (15.7%)	1,031 (11.4%)	844 (9.7%)	509 (5.6%)	1,258 (14.5%)	923 (10.2%)	553 (6.4%)	218 (2.4%)
	C	791 (10.2%)	189 (2.3%)	713 (9.2%)	111 (1.3%)	787 (10.2%)	185 (2.2%)	649 (8.4%)	47 (0.6%)
	All	-49 (-0.5%)	721 (7.8%)	-444 (-4.5%)	326 (3.5%)	-91 (-0.9%)	679 (7.4%)	-513 (-5.1%)	258 (2.8%)
JUN	W	923 (7.8%)	1,108 (9.5%)	153 (1.3%)	339 (2.9%)	775 (6.5%)	961 (8.2%)	24 (0.2%)	209 (1.8%)
	AN	2,279 (19%)	1,491 (11.7%)	399 (3.3%)	-390 (-3%)	2,357 (19.6%)	1,568 (12.3%)	610 (5.1%)	-178 (-1.4%)
	BN	1,151 (10%)	964 (8.3%)	93 (0.8%)	-94 (-0.8%)	942 (8.2%)	756 (6.5%)	-71 (-0.6%)	-258 (-2.2%)
	D	1,416 (12%)	752 (6%)	873 (7.4%)	209 (1.7%)	1,406 (11.9%)	742 (6%)	606 (5.1%)	-58 (-0.5%)
	C	870 (8%)	-127 (-1.1%)	838 (7.7%)	-159 (-1.3%)	1,052 (9.7%)	56 (0.5%)	706 (6.5%)	-291 (-2.4%)
	All	1,261 (10.8%)	881 (7.3%)	437 (3.7%)	57 (0.5%)	1,214 (10.4%)	834 (6.9%)	321 (2.8%)	-59 (-0.5%)
JUL	W	1,494 (11.3%)	224 (1.5%)	1,302 (9.8%)	32 (0.2%)	1,396 (10.5%)	126 (0.9%)	1,413 (10.7%)	143 (1%)
	AN	993 (7%)	-20 (-0.1%)	723 (5.1%)	-289 (-1.9%)	846 (6%)	-166 (-1.1%)	645 (4.6%)	-368 (-2.4%)
	BN	145 (1.1%)	-102 (-0.8%)	-29 (-0.2%)	-276 (-2.1%)	87 (0.7%)	-160 (-1.2%)	-87 (-0.7%)	-334 (-2.5%)
	D	-165 (-1.2%)	-623 (-4.5%)	213 (1.6%)	-245 (-1.8%)	-509 (-3.8%)	-967 (-7%)	-278 (-2.1%)	-736 (-5.3%)
	C	-1,346 (-10.3%)	-490 (-4%)	-1,097 (-8.4%)	-242 (-2%)	-1,153 (-8.9%)	-298 (-2.5%)	-938 (-7.2%)	-83 (-0.7%)
	All	410 (3.1%)	-158 (-1.1%)	400 (3%)	-169 (-1.2%)	301 (2.3%)	-268 (-1.9%)	329 (2.5%)	-239 (-1.7%)
AUG	W	-658 (-5.8%)	-110 (-1%)	-222 (-2%)	326 (3%)	-594 (-5.3%)	-46 (-0.4%)	-191 (-1.7%)	357 (3.3%)
	AN	980 (9.3%)	-215 (-1.8%)	1,499 (14.2%)	304 (2.6%)	843 (8%)	-351 (-3%)	1,519 (14.4%)	324 (2.8%)
	BN	-145 (-1.4%)	-307 (-3%)	567 (5.6%)	405 (3.9%)	75 (0.7%)	-87 (-0.8%)	667 (6.5%)	505 (4.9%)
	D	-1,110 (-10.3%)	-1,506 (-13.5%)	174 (1.6%)	-222 (-2%)	-1,165 (-10.8%)	-1,561 (-14%)	71 (0.7%)	-325 (-2.9%)
	C	-1,675 (-17.5%)	251 (3.3%)	-1,592 (-16.6%)	334 (4.4%)	-2,463 (-25.7%)	-537 (-7%)	-1,565 (-16.3%)	361 (4.7%)
	All	-579 (-5.4%)	-413 (-3.9%)	51 (0.5%)	217 (2.1%)	-668 (-6.3%)	-502 (-4.8%)	62 (0.6%)	228 (2.2%)

Alternative 4: Upstream—Sacramento River Upstream of Red Bluff									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
SEP	W	-2,268 (-23%)	-5,724 (-43%)	-2,139 (-21.7%)	-5,595 (-42%)	3,818 (38.7%)	361 (2.7%)	4,172 (42.3%)	716 (5.4%)
	AN	349 (5.6%)	-3,692 (-35.8%)	443 (7.1%)	-3,598 (-34.9%)	3,460 (55.1%)	-581 (-5.6%)	4,292 (68.4%)	251 (2.4%)
	BN	57 (1%)	-85 (-1.4%)	1,189 (20.4%)	1,046 (17.5%)	-620 (-10.6%)	-762 (-12.8%)	61 (1%)	-82 (-1.4%)
	D	-783 (-12.2%)	697 (14.2%)	-378 (-5.9%)	1,101 (22.4%)	-886 (-13.9%)	594 (12.1%)	-724 (-11.3%)	756 (15.4%)
	C	-226 (-3.8%)	822 (17%)	203 (3.4%)	1,252 (25.9%)	-160 (-2.7%)	889 (18.4%)	-203 (-3.5%)	845 (17.5%)
	All	-863 (-11.8%)	-2,096 (-24.6%)	-464 (-6.3%)	-1,697 (-19.9%)	1,393 (19.1%)	160 (1.9%)	1,773 (24.3%)	539 (6.3%)
OCT	W	-407 (-5.1%)	-576 (-7%)	-250 (-3.1%)	-419 (-5.1%)	28 (0.4%)	-140 (-1.7%)	-130 (-1.6%)	-298 (-3.6%)
	AN	-207 (-2.5%)	-257 (-3.1%)	250 (3.1%)	200 (2.5%)	145 (1.8%)	95 (1.2%)	1,129 (13.9%)	1,079 (13.2%)
	BN	175 (2.5%)	-509 (-6.5%)	32 (0.5%)	-651 (-8.4%)	52 (0.7%)	-632 (-8.1%)	-66 (-0.9%)	-750 (-9.6%)
	D	553 (8%)	169 (2.3%)	615 (8.9%)	231 (3.2%)	204 (3%)	-180 (-2.5%)	659 (9.6%)	275 (3.8%)
	C	294 (4.4%)	428 (6.6%)	1,010 (15.1%)	1,144 (17.5%)	-259 (-3.9%)	-126 (-1.9%)	-118 (-1.8%)	16 (0.2%)
	All	35 (0.5%)	-207 (-2.7%)	245 (3.3%)	3 (0%)	46 (0.6%)	-196 (-2.6%)	240 (3.2%)	-2 (0%)
NOV	W	-806 (-8.2%)	-1,751 (-16.2%)	-701 (-7.1%)	-1,645 (-15.2%)	-223 (-2.3%)	-1,168 (-10.8%)	-90 (-0.9%)	-1,034 (-9.6%)
	AN	-1,622 (-19.9%)	-2,576 (-28.3%)	-1,665 (-20.4%)	-2,619 (-28.8%)	-714 (-8.8%)	-1,668 (-18.3%)	-73 (-0.9%)	-1,027 (-11.3%)
	BN	-866 (-12.7%)	-1,757 (-22.9%)	-596 (-8.8%)	-1,488 (-19.4%)	-193 (-2.8%)	-1,085 (-14.1%)	-358 (-5.3%)	-1,250 (-16.3%)
	D	-1,355 (-18%)	-1,153 (-15.7%)	-1,244 (-16.5%)	-1,042 (-14.2%)	-1,068 (-14.2%)	-867 (-11.8%)	-1,009 (-13.4%)	-807 (-11%)
	C	-531 (-9.1%)	-423 (-7.4%)	-767 (-13.2%)	-659 (-11.6%)	-395 (-6.8%)	-287 (-5%)	-561 (-9.7%)	-453 (-7.9%)
	All	-1,016 (-12.7%)	-1,547 (-18.2%)	-953 (-11.9%)	-1,484 (-17.4%)	-501 (-6.3%)	-1,032 (-12.1%)	-404 (-5.1%)	-935 (-11%)
DEC	W	137 (0.7%)	1,539 (7.8%)	583 (2.8%)	1,986 (10.1%)	-1,546 (-7.4%)	-144 (-0.7%)	-1,244 (-5.9%)	159 (0.8%)
	AN	127 (1.3%)	93 (0.9%)	-158 (-1.6%)	-192 (-1.9%)	141 (1.4%)	107 (1.1%)	-16 (-0.2%)	-49 (-0.5%)
	BN	349 (4.1%)	529 (6.4%)	-22 (-0.3%)	158 (1.9%)	133 (1.6%)	313 (3.8%)	-116 (-1.4%)	64 (0.8%)
	D	186 (2.6%)	387 (5.5%)	-203 (-2.8%)	-2 (0%)	-155 (-2.1%)	45 (0.6%)	-399 (-5.5%)	-199 (-2.8%)
	C	19 (0.3%)	214 (3.9%)	-194 (-3.5%)	1 (0%)	-148 (-2.6%)	47 (0.9%)	-187 (-3.3%)	8 (0.1%)
	All	165 (1.4%)	708 (6.2%)	85 (0.7%)	628 (5.5%)	-503 (-4.2%)	40 (0.4%)	-531 (-4.4%)	12 (0.1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.4.1.3 Sacramento River at Wilkins Slough**

2 **Table 5. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Wilkins Slough,**
 3 **Year-Round**

Alternative 4: Upstream—Sacramento River at Wilkins Slough							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
JAN	W	19,145	19,320	19,383	19,404	19,359	19,348
	AN	17,084	16,593	17,295	17,502	16,553	16,423
	BN	12,521	12,143	12,682	12,722	12,270	12,502
	D	8,896	9,189	9,121	9,501	8,906	8,899
	C	7,858	8,586	9,125	8,719	8,744	7,861
	All	13,811	13,901	14,180	14,247	13,890	13,776
FEB	W	19,887	20,044	20,076	20,089	20,053	20,069
	AN	19,139	19,095	19,485	19,588	19,120	19,143
	BN	14,528	14,328	14,904	14,652	14,445	14,600
	D	11,520	11,473	11,451	11,441	11,471	11,494
	C	8,499	8,158	8,235	8,214	8,135	8,260
	All	15,359	15,309	15,480	15,451	15,331	15,389
MAR	W	18,223	18,323	18,330	18,337	18,324	18,331
	AN	17,696	17,537	17,775	17,780	17,686	17,526
	BN	12,208	11,534	12,032	11,939	11,462	11,382
	D	11,364	11,191	11,295	11,211	11,337	11,414
	C	8,101	8,166	8,526	8,316	8,426	8,285
	All	14,132	13,997	14,194	14,132	14,077	14,038
APR	W	13,392	13,119	13,136	13,134	13,032	13,037
	AN	10,264	9,783	10,054	10,045	10,072	10,149
	BN	7,152	6,858	7,227	7,068	7,262	6,759
	D	5,319	5,112	5,331	5,136	5,342	5,059
	C	4,164	4,331	4,246	4,224	4,264	4,221
	All	8,746	8,518	8,662	8,587	8,642	8,501
MAY	W	10,467	8,435	8,843	8,597	8,826	8,579
	AN	7,318	7,500	8,411	8,177	8,652	8,393
	BN	5,638	4,871	5,870	4,958	5,712	4,960
	D	4,669	5,088	6,054	5,528	5,974	5,309
	C	3,998	4,528	4,717	4,667	4,728	4,613
	All	6,962	6,383	7,056	6,665	7,043	6,636
JUN	W	6,503	6,435	7,471	6,738	7,353	6,642
	AN	5,781	6,530	7,947	6,101	8,036	6,325
	BN	5,243	5,628	6,459	5,473	6,330	5,380
	D	5,245	6,075	6,706	6,192	6,758	6,011
	C	5,140	6,253	5,925	5,931	6,129	5,821
	All	5,707	6,205	6,974	6,191	6,968	6,122
JUL	W	6,685	7,771	7,897	7,751	7,838	7,910
	AN	6,971	7,892	7,783	7,592	7,667	7,541
	BN	6,122	6,560	6,348	6,215	6,378	6,242
	D	6,788	7,474	6,716	7,102	6,435	6,692
	C	7,162	6,649	6,175	6,308	6,366	6,449
	All	6,723	7,353	7,105	7,112	7,041	7,090

Alternative 4: Upstream—Sacramento River at Wilkins Slough							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LLТ			
				H1	H2	H3	H4
AUG	W	6,287	5,537	5,393	5,838	5,482	5,891
	AN	5,498	6,610	6,393	6,894	6,280	6,950
	BN	5,138	5,462	5,070	5,771	5,350	5,930
	D	5,833	6,356	4,789	6,041	4,799	6,014
	C	5,551	4,719	5,153	4,752	4,524	4,726
	All	5,768	5,741	5,317	5,867	5,286	5,909
SEP	W	9,338	12,737	7,025	7,125	13,105	13,439
	AN	5,631	9,546	5,880	5,932	8,995	9,782
	BN	5,128	5,216	5,118	6,218	4,453	5,101
	D	5,636	4,114	4,872	5,212	4,783	4,895
	C	5,200	4,354	5,251	5,554	5,303	5,114
	All	6,658	7,866	5,800	6,146	8,058	8,386
OCT	W	7,347	7,382	6,932	7,074	7,240	7,093
	AN	6,799	6,927	6,640	7,101	6,943	7,937
	BN	5,987	6,570	6,148	5,981	5,935	5,800
	D	5,688	6,040	6,254	6,322	5,809	6,260
	C	5,642	5,572	6,096	6,691	5,531	5,543
	All	6,421	6,617	6,484	6,670	6,409	6,586
NOV	W	9,644	10,889	8,913	9,119	9,709	9,964
	AN	8,210	9,141	6,532	6,521	7,467	8,112
	BN	6,793	7,588	5,817	6,124	6,539	6,404
	D	7,407	7,227	6,042	6,173	6,394	6,445
	C	5,118	4,986	4,503	4,233	4,679	4,507
	All	7,794	8,402	6,761	6,866	7,376	7,514
DEC	W	17,881	17,257	17,548	17,744	17,141	17,372
	AN	10,809	10,755	11,071	10,876	10,981	10,991
	BN	8,505	8,258	8,613	8,360	8,458	8,277
	D	8,950	8,725	9,155	8,775	8,813	8,587
	C	6,229	5,981	6,192	6,013	6,010	5,993
	All	11,580	11,246	11,570	11,451	11,300	11,292

1 **Table 6. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Wilkins Slough, Year-Round**

Alternative 4: Upstream—Sacramento River at Wilkins Slough									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
JAN	W	239 (1.2%)	63 (0.3%)	259 (1.4%)	83 (0.4%)	214 (1.1%)	38 (0.2%)	203 (1.1%)	27 (0.1%)
	AN	211 (1.2%)	701 (4.2%)	418 (2.4%)	909 (5.5%)	-531 (-3.1%)	-41 (-0.2%)	-661 (-3.9%)	-171 (-1%)
	BN	161 (1.3%)	538 (4.4%)	201 (1.6%)	579 (4.8%)	-251 (-2%)	127 (1%)	-20 (-0.2%)	358 (2.9%)
	D	225 (2.5%)	-67 (-0.7%)	605 (6.8%)	312 (3.4%)	11 (0.1%)	-282 (-3.1%)	3 (0%)	-289 (-3.1%)
	C	1,267 (16.1%)	539 (6.3%)	861 (11%)	133 (1.5%)	886 (11.3%)	158 (1.8%)	3 (0%)	-725 (-8.4%)
	All	369 (2.7%)	279 (2%)	436 (3.2%)	346 (2.5%)	79 (0.6%)	-11 (-0.1%)	-35 (-0.3%)	-125 (-0.9%)
FEB	W	188 (0.9%)	31 (0.2%)	202 (1%)	45 (0.2%)	166 (0.8%)	9 (0%)	181 (0.9%)	24 (0.1%)
	AN	346 (1.8%)	390 (2%)	449 (2.3%)	493 (2.6%)	-19 (-0.1%)	24 (0.1%)	4 (0%)	48 (0.3%)
	BN	376 (2.6%)	576 (4%)	124 (0.9%)	324 (2.3%)	-83 (-0.6%)	117 (0.8%)	72 (0.5%)	272 (1.9%)
	D	-69 (-0.6%)	-22 (-0.2%)	-79 (-0.7%)	-33 (-0.3%)	-49 (-0.4%)	-2 (0%)	-26 (-0.2%)	20 (0.2%)
	C	-264 (-3.1%)	76 (0.9%)	-284 (-3.3%)	56 (0.7%)	-364 (-4.3%)	-24 (-0.3%)	-239 (-2.8%)	101 (1.2%)
	All	121 (0.8%)	172 (1.1%)	92 (0.6%)	143 (0.9%)	-28 (-0.2%)	22 (0.1%)	30 (0.2%)	80 (0.5%)
MAR	W	107 (0.6%)	7 (0%)	114 (0.6%)	14 (0.1%)	101 (0.6%)	1 (0%)	108 (0.6%)	8 (0%)
	AN	79 (0.4%)	238 (1.4%)	84 (0.5%)	243 (1.4%)	-10 (-0.1%)	149 (0.9%)	-170 (-1%)	-11 (-0.1%)
	BN	-176 (-1.4%)	498 (4.3%)	-268 (-2.2%)	406 (3.5%)	-745 (-6.1%)	-72 (-0.6%)	-826 (-6.8%)	-152 (-1.3%)
	D	-68 (-0.6%)	105 (0.9%)	-152 (-1.3%)	20 (0.2%)	-27 (-0.2%)	146 (1.3%)	50 (0.4%)	223 (2%)
	C	425 (5.2%)	360 (4.4%)	216 (2.7%)	151 (1.8%)	325 (4%)	260 (3.2%)	184 (2.3%)	119 (1.5%)
	All	63 (0.4%)	198 (1.4%)	1 (0%)	136 (1%)	-55 (-0.4%)	80 (0.6%)	-94 (-0.7%)	41 (0.3%)
APR	W	-256 (-1.9%)	17 (0.1%)	-258 (-1.9%)	15 (0.1%)	-360 (-2.7%)	-87 (-0.7%)	-355 (-2.7%)	-83 (-0.6%)
	AN	-209 (-2%)	272 (2.8%)	-219 (-2.1%)	262 (2.7%)	-191 (-1.9%)	290 (3%)	-115 (-1.1%)	366 (3.7%)
	BN	75 (1%)	369 (5.4%)	-84 (-1.2%)	210 (3.1%)	109 (1.5%)	404 (5.9%)	-393 (-5.5%)	-99 (-1.4%)
	D	11 (0.2%)	218 (4.3%)	-183 (-3.4%)	24 (0.5%)	22 (0.4%)	229 (4.5%)	-261 (-4.9%)	-54 (-1%)
	C	82 (2%)	-84 (-1.9%)	60 (1.4%)	-107 (-2.5%)	100 (2.4%)	-67 (-1.5%)	57 (1.4%)	-110 (-2.5%)
	All	-84 (-1%)	144 (1.7%)	-159 (-1.8%)	69 (0.8%)	-104 (-1.2%)	124 (1.5%)	-245 (-2.8%)	-17 (-0.2%)

Alternative 4: Upstream—Sacramento River at Wilkins Slough									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
MAY	W	-1,624 (-15.5%)	408 (4.8%)	-1,870 (-17.9%)	162 (1.9%)	-1,641 (-15.7%)	391 (4.6%)	-1,888 (-18%)	144 (1.7%)
	AN	1,093 (14.9%)	911 (12.1%)	859 (11.7%)	678 (9%)	1,334 (18.2%)	1,152 (15.4%)	1,075 (14.7%)	893 (11.9%)
	BN	232 (4.1%)	999 (20.5%)	-680 (-12.1%)	87 (1.8%)	74 (1.3%)	841 (17.3%)	-677 (-12%)	89 (1.8%)
	D	1,385 (29.7%)	966 (19%)	859 (18.4%)	440 (8.7%)	1,305 (28%)	887 (17.4%)	640 (13.7%)	222 (4.4%)
	C	719 (18%)	189 (4.2%)	669 (16.7%)	139 (3.1%)	730 (18.3%)	200 (4.4%)	615 (15.4%)	85 (1.9%)
	All	94 (1.3%)	673 (10.5%)	-297 (-4.3%)	282 (4.4%)	81 (1.2%)	660 (10.3%)	-326 (-4.7%)	253 (4%)
JUN	W	967 (14.9%)	1,035 (16.1%)	235 (3.6%)	303 (4.7%)	849 (13.1%)	917 (14.3%)	139 (2.1%)	207 (3.2%)
	AN	2,167 (37.5%)	1,418 (21.7%)	320 (5.5%)	-429 (-6.6%)	2,255 (39%)	1,506 (23.1%)	544 (9.4%)	-205 (-3.1%)
	BN	1,217 (23.2%)	832 (14.8%)	230 (4.4%)	-155 (-2.8%)	1,087 (20.7%)	702 (12.5%)	137 (2.6%)	-248 (-4.4%)
	D	1,461 (27.9%)	632 (10.4%)	946 (18%)	117 (1.9%)	1,513 (28.8%)	683 (11.3%)	766 (14.6%)	-63 (-1%)
	C	785 (15.3%)	-328 (-5.2%)	791 (15.4%)	-322 (-5.1%)	988 (19.2%)	-124 (-2%)	680 (13.2%)	-432 (-6.9%)
	All	1,267 (22.2%)	768 (12.4%)	484 (8.5%)	-15 (-0.2%)	1,262 (22.1%)	763 (12.3%)	415 (7.3%)	-84 (-1.3%)
JUL	W	1,213 (18.1%)	127 (1.6%)	1,066 (15.9%)	-20 (-0.3%)	1,154 (17.3%)	67 (0.9%)	1,226 (18.3%)	140 (1.8%)
	AN	812 (11.6%)	-109 (-1.4%)	621 (8.9%)	-300 (-3.8%)	696 (10%)	-225 (-2.8%)	570 (8.2%)	-351 (-4.4%)
	BN	226 (3.7%)	-212 (-3.2%)	93 (1.5%)	-345 (-5.3%)	256 (4.2%)	-182 (-2.8%)	120 (2%)	-318 (-4.8%)
	D	-71 (-1.1%)	-758 (-10.1%)	315 (4.6%)	-372 (-5%)	-352 (-5.2%)	-1,039 (-13.9%)	-95 (-1.4%)	-782 (-10.5%)
	C	-986 (-13.8%)	-474 (-7.1%)	-853 (-11.9%)	-341 (-5.1%)	-795 (-11.1%)	-283 (-4.3%)	-713 (-10%)	-201 (-3%)
	All	382 (5.7%)	-248 (-3.4%)	389 (5.8%)	-241 (-3.3%)	318 (4.7%)	-312 (-4.2%)	367 (5.5%)	-262 (-3.6%)
AUG	W	-894 (-14.2%)	-143 (-2.6%)	-449 (-7.1%)	302 (5.4%)	-805 (-12.8%)	-54 (-1%)	-396 (-6.3%)	355 (6.4%)
	AN	894 (16.3%)	-218 (-3.3%)	1,396 (25.4%)	284 (4.3%)	782 (14.2%)	-330 (-5%)	1,452 (26.4%)	340 (5.1%)
	BN	-67 (-1.3%)	-392 (-7.2%)	634 (12.3%)	309 (5.7%)	213 (4.1%)	-112 (-2%)	792 (15.4%)	468 (8.6%)
	D	-1,044 (-17.9%)	-1,567 (-24.7%)	208 (3.6%)	-315 (-5%)	-1,034 (-17.7%)	-1,557 (-24.5%)	181 (3.1%)	-342 (-5.4%)
	C	-399 (-7.2%)	433 (9.2%)	-799 (-14.4%)	33 (0.7%)	-1,027 (-18.5%)	-195 (-4.1%)	-825 (-14.9%)	7 (0.1%)
	All	-452 (-7.8%)	-425 (-7.4%)	99 (1.7%)	126 (2.2%)	-482 (-8.4%)	-455 (-7.9%)	141 (2.5%)	168 (2.9%)

Alternative 4: Upstream—Sacramento River at Wilkins Slough									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
SEP	W	-2,312 (-24.8%)	-5,712 (-44.8%)	-2,212 (-23.7%)	-5,612 (-44.1%)	3,768 (40.4%)	368 (2.9%)	4,101 (43.9%)	702 (5.5%)
	AN	249 (4.4%)	-3,666 (-38.4%)	301 (5.3%)	-3,614 (-37.9%)	3,364 (59.7%)	-551 (-5.8%)	4,150 (73.7%)	236 (2.5%)
	BN	-10 (-0.2%)	-98 (-1.9%)	1,090 (21.3%)	1,002 (19.2%)	-675 (-13.2%)	-763 (-14.6%)	-27 (-0.5%)	-115 (-2.2%)
	D	-764 (-13.6%)	758 (18.4%)	-423 (-7.5%)	1,098 (26.7%)	-853 (-15.1%)	669 (16.3%)	-741 (-13.1%)	781 (19%)
	C	51 (1%)	897 (20.6%)	354 (6.8%)	1,200 (27.6%)	103 (2%)	949 (21.8%)	-86 (-1.7%)	760 (17.4%)
	All	-859 (-12.9%)	-2,067 (-26.3%)	-512 (-7.7%)	-1,720 (-21.9%)	1,400 (21%)	191 (2.4%)	1,728 (26%)	520 (6.6%)
OCT	W	-415 (-5.7%)	-450 (-6.1%)	-272 (-3.7%)	-308 (-4.2%)	-107 (-1.5%)	-142 (-1.9%)	-254 (-3.5%)	-289 (-3.9%)
	AN	-160 (-2.3%)	-288 (-4.2%)	302 (4.4%)	174 (2.5%)	143 (2.1%)	16 (0.2%)	1,138 (16.7%)	1,010 (14.6%)
	BN	161 (2.7%)	-422 (-6.4%)	-6 (-0.1%)	-589 (-9%)	-51 (-0.9%)	-635 (-9.7%)	-187 (-3.1%)	-770 (-11.7%)
	D	566 (10%)	214 (3.5%)	634 (11.2%)	282 (4.7%)	121 (2.1%)	-231 (-3.8%)	572 (10.1%)	220 (3.6%)
	C	454 (8.1%)	524 (9.4%)	1,050 (18.6%)	1,119 (20.1%)	-111 (-2%)	-41 (-0.7%)	-99 (-1.8%)	-29 (-0.5%)
	All	63 (1%)	-133 (-2%)	250 (3.9%)	53 (0.8%)	-11 (-0.2%)	-208 (-3.1%)	165 (2.6%)	-31 (-0.5%)
NOV	W	-731 (-7.6%)	-1,976 (-18.1%)	-525 (-5.4%)	-1,770 (-16.3%)	65 (0.7%)	-1,180 (-10.8%)	320 (3.3%)	-926 (-8.5%)
	AN	-1,677 (-20.4%)	-2,608 (-28.5%)	-1,689 (-20.6%)	-2,620 (-28.7%)	-742 (-9%)	-1,673 (-18.3%)	-97 (-1.2%)	-1,028 (-11.2%)
	BN	-975 (-14.4%)	-1,770 (-23.3%)	-669 (-9.8%)	-1,464 (-19.3%)	-254 (-3.7%)	-1,049 (-13.8%)	-388 (-5.7%)	-1,183 (-15.6%)
	D	-1,365 (-18.4%)	-1,185 (-16.4%)	-1,235 (-16.7%)	-1,054 (-14.6%)	-1,013 (-13.7%)	-833 (-11.5%)	-962 (-13%)	-781 (-10.8%)
	C	-615 (-12%)	-483 (-9.7%)	-885 (-17.3%)	-752 (-15.1%)	-439 (-8.6%)	-306 (-6.1%)	-611 (-11.9%)	-478 (-9.6%)
	All	-1,033 (-13.3%)	-1,641 (-19.5%)	-928 (-11.9%)	-1,536 (-18.3%)	-418 (-5.4%)	-1,026 (-12.2%)	-280 (-3.6%)	-887 (-10.6%)
DEC	W	-334 (-1.9%)	291 (1.7%)	-137 (-0.8%)	487 (2.8%)	-740 (-4.1%)	-116 (-0.7%)	-510 (-2.9%)	115 (0.7%)
	AN	262 (2.4%)	316 (2.9%)	67 (0.6%)	121 (1.1%)	173 (1.6%)	227 (2.1%)	182 (1.7%)	236 (2.2%)
	BN	108 (1.3%)	355 (4.3%)	-145 (-1.7%)	102 (1.2%)	-47 (-0.6%)	199 (2.4%)	-228 (-2.7%)	19 (0.2%)
	D	205 (2.3%)	430 (4.9%)	-175 (-2%)	50 (0.6%)	-137 (-1.5%)	88 (1%)	-363 (-4.1%)	-138 (-1.6%)
	C	-37 (-0.6%)	210 (3.5%)	-216 (-3.5%)	32 (0.5%)	-219 (-3.5%)	29 (0.5%)	-236 (-3.8%)	12 (0.2%)
	All	-9 (-0.1%)	324 (2.9%)	-128 (-1.1%)	205 (1.8%)	-280 (-2.4%)	54 (0.5%)	-288 (-2.5%)	46 (0.4%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.4.1.4 Sacramento River at Verona**2 **Table 7. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Verona,**
3 **Year-Round**

Alternative 4: Upstream—Sacramento River at Verona							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
JAN	W	44,589	45,567	44,929	44,737	43,978	43,717
	AN	34,120	33,671	33,229	33,460	31,703	31,835
	BN	20,175	19,121	18,066	18,507	17,594	17,870
	D	14,756	14,782	14,415	14,732	13,967	13,934
	C	12,085	13,051	13,167	13,105	12,837	11,896
	All	27,583	27,795	27,284	27,393	26,532	26,371
FEB	W	49,892	51,326	50,416	50,113	50,214	49,831
	AN	39,162	39,749	39,121	39,349	38,602	38,766
	BN	26,429	25,341	24,855	25,358	24,153	24,641
	D	18,402	18,090	17,167	17,047	17,163	17,122
	C	12,822	12,325	11,896	11,875	11,881	11,984
	All	31,979	32,192	31,463	31,457	31,200	31,192
MAR	W	43,455	44,624	42,607	42,665	42,403	42,545
	AN	39,477	39,687	38,833	38,134	37,875	36,892
	BN	21,484	19,448	18,564	18,910	17,809	18,151
	D	17,868	17,649	16,692	16,673	16,658	16,715
	C	11,903	11,789	11,898	11,769	11,736	11,686
	All	28,888	28,877	27,767	27,719	27,402	27,367
APR	W	32,219	31,636	29,519	32,276	29,403	32,143
	AN	22,250	21,313	20,270	23,608	20,197	23,380
	BN	14,459	13,857	14,258	17,896	14,249	18,508
	D	11,113	10,903	11,587	11,135	11,498	11,112
	C	9,420	9,489	9,632	9,322	9,555	9,347
	All	19,759	19,298	18,713	20,552	18,634	20,580
MAY	W	26,193	20,229	20,834	22,911	20,855	23,431
	AN	17,079	16,002	17,645	18,878	17,899	19,656
	BN	11,451	10,534	12,225	12,550	12,319	12,319
	D	9,283	9,841	11,126	10,731	10,969	10,383
	C	7,125	7,611	7,689	7,623	7,671	7,579
	All	15,840	13,828	14,843	15,641	14,865	15,798
JUN	W	18,367	15,304	18,077	15,380	18,346	15,116
	AN	13,590	13,574	17,840	13,458	17,972	13,789
	BN	11,062	11,320	14,813	13,067	14,742	12,167
	D	10,429	10,780	11,905	11,532	11,870	10,651
	C	8,911	9,827	9,294	9,213	9,578	9,084
	All	13,295	12,576	14,845	12,956	14,971	12,555
JUL	W	16,253	17,965	17,038	14,967	17,237	15,771
	AN	17,488	18,338	17,965	14,441	18,003	14,331
	BN	16,698	16,598	15,213	14,013	15,348	13,926
	D	16,352	16,465	13,150	13,386	12,407	12,237
	C	14,476	12,457	9,828	10,212	9,749	10,240
	All	16,271	16,651	14,953	13,684	14,871	13,660

Alternative 4: Upstream—Sacramento River at Verona							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LLT			
				H1	H2	H3	H4
AUG	W	12,464	14,016	12,412	11,137	12,540	11,258
	AN	13,691	15,828	14,153	13,292	14,064	12,818
	BN	13,389	14,074	12,569	12,060	12,640	11,623
	D	14,688	13,018	10,643	11,340	10,109	10,722
	C	9,207	8,085	8,321	8,355	7,776	8,487
	All	12,813	13,204	11,707	11,247	11,549	11,026
SEP	W	14,279	23,592	10,723	10,732	22,522	22,255
	AN	10,537	19,044	10,709	10,001	16,665	16,350
	BN	9,961	10,576	9,023	9,655	8,446	8,545
	D	10,542	7,664	8,953	9,131	8,385	8,768
	C	7,764	6,832	8,181	8,963	8,062	8,534
	All	11,220	14,755	9,670	9,831	14,042	14,081
OCT	W	11,503	11,232	10,915	10,667	11,049	10,579
	AN	9,381	9,890	10,072	9,950	10,231	10,963
	BN	9,867	10,146	9,749	9,405	9,468	9,378
	D	8,681	8,989	9,450	9,154	9,138	8,743
	C	8,543	8,104	9,336	10,053	8,534	9,046
	All	9,861	9,900	10,040	9,925	9,872	9,803
NOV	W	15,307	15,754	13,942	13,972	14,453	14,702
	AN	11,792	12,817	9,900	9,744	10,873	11,484
	BN	9,852	10,437	8,538	8,713	9,306	9,142
	D	10,157	9,731	8,582	8,510	8,924	8,866
	C	7,341	7,223	6,572	6,590	6,760	6,798
	All	11,565	11,846	10,173	10,176	10,711	10,844
DEC	W	33,840	31,254	31,104	31,864	29,513	29,982
	AN	17,572	18,481	18,057	16,602	17,667	17,327
	BN	13,099	13,028	13,639	12,830	12,914	12,640
	D	12,685	12,532	12,443	11,847	12,285	11,919
	C	9,770	8,627	9,648	9,043	9,443	8,786
	All	19,752	18,852	18,977	18,647	18,227	18,102

1 **Table 8. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Verona, Year-Round**

Alternative 4: Upstream—Sacramento River at Verona									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
JAN	W	239 (1.2%)	63 (0.3%)	259 (1.4%)	83 (0.4%)	214 (1.1%)	38 (0.2%)	203 (1.1%)	27 (0.1%)
	AN	211 (1.2%)	701 (4.2%)	418 (2.4%)	909 (5.5%)	-531 (-3.1%)	-41 (-0.2%)	-661 (-3.9%)	-171 (-1%)
	BN	161 (1.3%)	538 (4.4%)	201 (1.6%)	579 (4.8%)	-251 (-2%)	127 (1%)	-20 (-0.2%)	358 (2.9%)
	D	225 (2.5%)	-67 (-0.7%)	605 (6.8%)	312 (3.4%)	11 (0.1%)	-282 (-3.1%)	3 (0%)	-289 (-3.1%)
	C	1,267 (16.1%)	539 (6.3%)	861 (11%)	133 (1.5%)	886 (11.3%)	158 (1.8%)	3 (0%)	-725 (-8.4%)
	All	369 (2.7%)	279 (2%)	436 (3.2%)	346 (2.5%)	79 (0.6%)	-11 (-0.1%)	-35 (-0.3%)	-125 (-0.9%)
FEB	W	188 (0.9%)	31 (0.2%)	202 (1%)	45 (0.2%)	166 (0.8%)	9 (0%)	181 (0.9%)	24 (0.1%)
	AN	346 (1.8%)	390 (2%)	449 (2.3%)	493 (2.6%)	-19 (-0.1%)	24 (0.1%)	4 (0%)	48 (0.3%)
	BN	376 (2.6%)	576 (4%)	124 (0.9%)	324 (2.3%)	-83 (-0.6%)	117 (0.8%)	72 (0.5%)	272 (1.9%)
	D	-69 (-0.6%)	-22 (-0.2%)	-79 (-0.7%)	-33 (-0.3%)	-49 (-0.4%)	-2 (0%)	-26 (-0.2%)	20 (0.2%)
	C	-264 (-3.1%)	76 (0.9%)	-284 (-3.3%)	56 (0.7%)	-364 (-4.3%)	-24 (-0.3%)	-239 (-2.8%)	101 (1.2%)
	All	121 (0.8%)	172 (1.1%)	92 (0.6%)	143 (0.9%)	-28 (-0.2%)	22 (0.1%)	30 (0.2%)	80 (0.5%)
MAR	W	107 (0.6%)	7 (0%)	114 (0.6%)	14 (0.1%)	101 (0.6%)	1 (0%)	108 (0.6%)	8 (0%)
	AN	79 (0.4%)	238 (1.4%)	84 (0.5%)	243 (1.4%)	-10 (-0.1%)	149 (0.9%)	-170 (-1%)	-11 (-0.1%)
	BN	-176 (-1.4%)	498 (4.3%)	-268 (-2.2%)	406 (3.5%)	-745 (-6.1%)	-72 (-0.6%)	-826 (-6.8%)	-152 (-1.3%)
	D	-68 (-0.6%)	105 (0.9%)	-152 (-1.3%)	20 (0.2%)	-27 (-0.2%)	146 (1.3%)	50 (0.4%)	223 (2%)
	C	425 (5.2%)	360 (4.4%)	216 (2.7%)	151 (1.8%)	325 (4%)	260 (3.2%)	184 (2.3%)	119 (1.5%)
	All	63 (0.4%)	198 (1.4%)	1 (0%)	136 (1%)	-55 (-0.4%)	80 (0.6%)	-94 (-0.7%)	41 (0.3%)
APR	W	-256 (-1.9%)	17 (0.1%)	-258 (-1.9%)	15 (0.1%)	-360 (-2.7%)	-87 (-0.7%)	-355 (-2.7%)	-83 (-0.6%)
	AN	-209 (-2%)	272 (2.8%)	-219 (-2.1%)	262 (2.7%)	-191 (-1.9%)	290 (3%)	-115 (-1.1%)	366 (3.7%)
	BN	75 (1%)	369 (5.4%)	-84 (-1.2%)	210 (3.1%)	109 (1.5%)	404 (5.9%)	-393 (-5.5%)	-99 (-1.4%)
	D	11 (0.2%)	218 (4.3%)	-183 (-3.4%)	24 (0.5%)	22 (0.4%)	229 (4.5%)	-261 (-4.9%)	-54 (-1%)
	C	82 (2%)	-84 (-1.9%)	60 (1.4%)	-107 (-2.5%)	100 (2.4%)	-67 (-1.5%)	57 (1.4%)	-110 (-2.5%)
	All	-84 (-1%)	144 (1.7%)	-159 (-1.8%)	69 (0.8%)	-104 (-1.2%)	124 (1.5%)	-245 (-2.8%)	-17 (-0.2%)

Alternative 4: Upstream—Sacramento River at Verona									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
MAY	W	-1,624 (-15.5%)	408 (4.8%)	-1,870 (-17.9%)	162 (1.9%)	-1,641 (-15.7%)	391 (4.6%)	-1,888 (-18%)	144 (1.7%)
	AN	1,093 (14.9%)	911 (12.1%)	859 (11.7%)	678 (9%)	1,334 (18.2%)	1,152 (15.4%)	1,075 (14.7%)	893 (11.9%)
	BN	232 (4.1%)	999 (20.5%)	-680 (-12.1%)	87 (1.8%)	74 (1.3%)	841 (17.3%)	-677 (-12%)	89 (1.8%)
	D	1,385 (29.7%)	966 (19%)	859 (18.4%)	440 (8.7%)	1,305 (28%)	887 (17.4%)	640 (13.7%)	222 (4.4%)
	C	719 (18%)	189 (4.2%)	669 (16.7%)	139 (3.1%)	730 (18.3%)	200 (4.4%)	615 (15.4%)	85 (1.9%)
	All	94 (1.3%)	673 (10.5%)	-297 (-4.3%)	282 (4.4%)	81 (1.2%)	660 (10.3%)	-326 (-4.7%)	253 (4%)
JUN	W	967 (14.9%)	1,035 (16.1%)	235 (3.6%)	303 (4.7%)	849 (13.1%)	917 (14.3%)	139 (2.1%)	207 (3.2%)
	AN	2,167 (37.5%)	1,418 (21.7%)	320 (5.5%)	-429 (-6.6%)	2,255 (39%)	1,506 (23.1%)	544 (9.4%)	-205 (-3.1%)
	BN	1,217 (23.2%)	832 (14.8%)	230 (4.4%)	-155 (-2.8%)	1,087 (20.7%)	702 (12.5%)	137 (2.6%)	-248 (-4.4%)
	D	1,461 (27.9%)	632 (10.4%)	946 (18%)	117 (1.9%)	1,513 (28.8%)	683 (11.3%)	766 (14.6%)	-63 (-1%)
	C	785 (15.3%)	-328 (-5.2%)	791 (15.4%)	-322 (-5.1%)	988 (19.2%)	-124 (-2%)	680 (13.2%)	-432 (-6.9%)
	All	1,267 (22.2%)	768 (12.4%)	484 (8.5%)	-15 (-0.2%)	1,262 (22.1%)	763 (12.3%)	415 (7.3%)	-84 (-1.3%)
JUL	W	1,213 (18.1%)	127 (1.6%)	1,066 (15.9%)	-20 (-0.3%)	1,154 (17.3%)	67 (0.9%)	1,226 (18.3%)	140 (1.8%)
	AN	812 (11.6%)	-109 (-1.4%)	621 (8.9%)	-300 (-3.8%)	696 (10%)	-225 (-2.8%)	570 (8.2%)	-351 (-4.4%)
	BN	226 (3.7%)	-212 (-3.2%)	93 (1.5%)	-345 (-5.3%)	256 (4.2%)	-182 (-2.8%)	120 (2%)	-318 (-4.8%)
	D	-71 (-1.1%)	-758 (-10.1%)	315 (4.6%)	-372 (-5%)	-352 (-5.2%)	-1,039 (-13.9%)	-95 (-1.4%)	-782 (-10.5%)
	C	-986 (-13.8%)	-474 (-7.1%)	-853 (-11.9%)	-341 (-5.1%)	-795 (-11.1%)	-283 (-4.3%)	-713 (-10%)	-201 (-3%)
	All	382 (5.7%)	-248 (-3.4%)	389 (5.8%)	-241 (-3.3%)	318 (4.7%)	-312 (-4.2%)	367 (5.5%)	-262 (-3.6%)
AUG	W	-894 (-14.2%)	-143 (-2.6%)	-449 (-7.1%)	302 (5.4%)	-805 (-12.8%)	-54 (-1%)	-396 (-6.3%)	355 (6.4%)
	AN	894 (16.3%)	-218 (-3.3%)	1,396 (25.4%)	284 (4.3%)	782 (14.2%)	-330 (-5%)	1,452 (26.4%)	340 (5.1%)
	BN	-67 (-1.3%)	-392 (-7.2%)	634 (12.3%)	309 (5.7%)	213 (4.1%)	-112 (-2%)	792 (15.4%)	468 (8.6%)
	D	-1,044 (-17.9%)	-1,567 (-24.7%)	208 (3.6%)	-315 (-5%)	-1,034 (-17.7%)	-1,557 (-24.5%)	181 (3.1%)	-342 (-5.4%)
	C	-399 (-7.2%)	433 (9.2%)	-799 (-14.4%)	33 (0.7%)	-1,027 (-18.5%)	-195 (-4.1%)	-825 (-14.9%)	7 (0.1%)
	All	-452 (-7.8%)	-425 (-7.4%)	99 (1.7%)	126 (2.2%)	-482 (-8.4%)	-455 (-7.9%)	141 (2.5%)	168 (2.9%)

Alternative 4: Upstream—Sacramento River at Verona									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
SEP	W	-2,312 (-24.8%)	-5,712 (-44.8%)	-2,212 (-23.7%)	-5,612 (-44.1%)	3,768 (40.4%)	368 (2.9%)	4,101 (43.9%)	702 (5.5%)
	AN	249 (4.4%)	-3,666 (-38.4%)	301 (5.3%)	-3,614 (-37.9%)	3,364 (59.7%)	-551 (-5.8%)	4,150 (73.7%)	236 (2.5%)
	BN	-10 (-0.2%)	-98 (-1.9%)	1,090 (21.3%)	1,002 (19.2%)	-675 (-13.2%)	-763 (-14.6%)	-27 (-0.5%)	-115 (-2.2%)
	D	-764 (-13.6%)	758 (18.4%)	-423 (-7.5%)	1,098 (26.7%)	-853 (-15.1%)	669 (16.3%)	-741 (-13.1%)	781 (19%)
	C	51 (1%)	897 (20.6%)	354 (6.8%)	1,200 (27.6%)	103 (2%)	949 (21.8%)	-86 (-1.7%)	760 (17.4%)
	All	-859 (-12.9%)	-2,067 (-26.3%)	-512 (-7.7%)	-1,720 (-21.9%)	1,400 (21%)	191 (2.4%)	1,728 (26%)	520 (6.6%)
OCT	W	-415 (-5.7%)	-450 (-6.1%)	-272 (-3.7%)	-308 (-4.2%)	-107 (-1.5%)	-142 (-1.9%)	-254 (-3.5%)	-289 (-3.9%)
	AN	-160 (-2.3%)	-288 (-4.2%)	302 (4.4%)	174 (2.5%)	143 (2.1%)	16 (0.2%)	1,138 (16.7%)	1,010 (14.6%)
	BN	161 (2.7%)	-422 (-6.4%)	-6 (-0.1%)	-589 (-9%)	-51 (-0.9%)	-635 (-9.7%)	-187 (-3.1%)	-770 (-11.7%)
	D	566 (10%)	214 (3.5%)	634 (11.2%)	282 (4.7%)	121 (2.1%)	-231 (-3.8%)	572 (10.1%)	220 (3.6%)
	C	454 (8.1%)	524 (9.4%)	1,050 (18.6%)	1,119 (20.1%)	-111 (-2%)	-41 (-0.7%)	-99 (-1.8%)	-29 (-0.5%)
	All	63 (1%)	-133 (-2%)	250 (3.9%)	53 (0.8%)	-11 (-0.2%)	-208 (-3.1%)	165 (2.6%)	-31 (-0.5%)
NOV	W	-731 (-7.6%)	-1,976 (-18.1%)	-525 (-5.4%)	-1,770 (-16.3%)	65 (0.7%)	-1,180 (-10.8%)	320 (3.3%)	-926 (-8.5%)
	AN	-1,677 (-20.4%)	-2,608 (-28.5%)	-1,689 (-20.6%)	-2,620 (-28.7%)	-742 (-9%)	-1,673 (-18.3%)	-97 (-1.2%)	-1,028 (-11.2%)
	BN	-975 (-14.4%)	-1,770 (-23.3%)	-669 (-9.8%)	-1,464 (-19.3%)	-254 (-3.7%)	-1,049 (-13.8%)	-388 (-5.7%)	-1,183 (-15.6%)
	D	-1,365 (-18.4%)	-1,185 (-16.4%)	-1,235 (-16.7%)	-1,054 (-14.6%)	-1,013 (-13.7%)	-833 (-11.5%)	-962 (-13%)	-781 (-10.8%)
	C	-615 (-12%)	-483 (-9.7%)	-885 (-17.3%)	-752 (-15.1%)	-439 (-8.6%)	-306 (-6.1%)	-611 (-11.9%)	-478 (-9.6%)
	All	-1,033 (-13.3%)	-1,641 (-19.5%)	-928 (-11.9%)	-1,536 (-18.3%)	-418 (-5.4%)	-1,026 (-12.2%)	-280 (-3.6%)	-887 (-10.6%)
DEC	W	-334 (-1.9%)	291 (1.7%)	-137 (-0.8%)	487 (2.8%)	-740 (-4.1%)	-116 (-0.7%)	-510 (-2.9%)	115 (0.7%)
	AN	262 (2.4%)	316 (2.9%)	67 (0.6%)	121 (1.1%)	173 (1.6%)	227 (2.1%)	182 (1.7%)	236 (2.2%)
	BN	108 (1.3%)	355 (4.3%)	-145 (-1.7%)	102 (1.2%)	-47 (-0.6%)	199 (2.4%)	-228 (-2.7%)	19 (0.2%)
	D	205 (2.3%)	430 (4.9%)	-175 (-2%)	50 (0.6%)	-137 (-1.5%)	88 (1%)	-363 (-4.1%)	-138 (-1.6%)
	C	-37 (-0.6%)	210 (3.5%)	-216 (-3.5%)	32 (0.5%)	-219 (-3.5%)	29 (0.5%)	-236 (-3.8%)	12 (0.2%)
	All	-9 (-0.1%)	324 (2.9%)	-128 (-1.1%)	205 (1.8%)	-280 (-2.4%)	54 (0.5%)	-288 (-2.5%)	46 (0.4%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.4.1.5 Trinity River below Lewiston**

2 **Table 9. Mean Monthly Flows (cfs) for Model Scenarios in the Trinity River Below Lewiston,**
 3 **Year-Round**

Alternative 4: Upstream—Trinity River below Lewiston							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LLТ			
				H1	H2	H3	H4
JAN	W	1,440	1,518	1,474	1,552	1,416	1,474
	AN	300	300	405	478	300	300
	BN	358	300	300	521	300	300
	D	300	300	300	300	300	300
	C	300	287	287	300	275	278
	All	671	684	686	761	650	669
FEB	W	1,056	1,495	1,617	1,614	1,480	1,448
	AN	689	784	1,043	1,043	767	533
	BN	517	568	662	662	662	662
	D	300	300	300	300	300	300
	C	300	300	300	300	300	300
	All	634	795	888	887	804	760
MAR	W	1,209	1,385	1,438	1,480	1,385	1,385
	AN	436	519	519	519	519	519
	BN	319	300	300	300	300	300
	D	300	300	300	300	300	300
	C	300	300	300	300	300	300
	All	611	676	693	706	676	676
APR	W	721	844	844	844	844	844
	AN	469	513	458	513	458	458
	BN	507	504	504	504	504	504
	D	529	529	529	529	529	529
	C	575	580	580	580	580	580
	All	584	630	622	630	622	622
MAY	W	4,636	4,620	4,620	4,620	4,620	4,620
	AN	4,462	4,416	4,416	4,416	4,416	4,416
	BN	3,774	3,865	3,865	3,865	3,865	3,865
	D	3,216	3,216	3,216	3,216	3,216	3,216
	C	2,092	1,973	1,973	1,973	1,973	1,973
	All	3,779	3,766	3,766	3,766	3,766	3,766
JUN	W	3,371	3,560	3,560	3,560	3,560	3,560
	AN	2,488	3,188	3,188	3,188	3,188	3,188
	BN	1,672	1,767	1,767	1,767	1,767	1,767
	D	1,251	1,251	1,251	1,251	1,251	1,251
	C	783	783	783	783	783	783
	All	2,108	2,286	2,286	2,286	2,286	2,286
JUL	W	1,289	1,103	1,103	1,103	1,103	1,103
	AN	1,048	1,048	1,048	1,048	1,048	1,048
	BN	869	916	916	916	916	916
	D	667	667	667	667	667	667
	C	450	413	450	450	450	450
	All	923	866	872	872	872	872

Alternative 4: Upstream—Trinity River below Lewiston							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL			
				H1	H2	H3	H4
AUG	W	450	450	450	450	450	450
	AN	450	450	450	450	450	450
	BN	450	450	450	450	450	450
	D	450	450	450	450	450	450
	C	450	338	300	338	300	375
	All	450	434	428	434	428	439
SEP	W	450	450	450	450	450	450
	AN	450	450	450	450	450	450
	BN	450	450	450	450	450	450
	D	450	450	450	450	450	450
	C	450	265	225	280	248	315
	All	450	423	417	425	420	430
OCT	W	373	373	373	373	373	373
	AN	373	311	332	314	332	332
	BN	346	346	346	346	346	346
	D	373	346	352	352	352	352
	C	373	311	280	311	280	311
	All	368	344	344	346	344	349
NOV	W	489	414	365	402	365	365
	AN	300	275	275	275	275	275
	BN	300	300	300	300	300	300
	D	300	283	283	283	283	283
	C	300	225	225	250	225	225
	All	360	318	302	318	302	302
DEC	W	1,072	837	1,151	1,169	926	938
	AN	300	300	300	300	300	
	BN	300	300	300	300	300	
	D	300	300	299	300	298	
	C	300	275	272	297	272	
	All	545	466	566	575	494	

1 **Table 10. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Trinity River**
 2 **Below Lewiston, Year-Round**

Alternative 4: Upstream—Trinity River below Lewiston									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
JAN	W	34 (2.4%)	-44 (-2.9%)	112 (7.8%)	34 (2.2%)	-24 (-1.6%)	-102 (-6.7%)	34 (2.4%)	-45 (-2.9%)
	AN	105 (35%)	105 (35%)	178 (59.3%)	178 (59.3%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	-58 (-16.3%)	0 (0%)	163 (45.3%)	221 (73.7%)	-58 (-16.3%)	0 (0%)	-58 (-16.3%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	-13 (-4.2%)	0 (0%)	0 (0%)	13 (4.4%)	-25 (-8.3%)	-12 (-4.3%)	-22 (-7.2%)	-9 (-3.1%)
	All	14 (2.1%)	1 (0.2%)	89 (13.3%)	76 (11.1%)	-21 (-3.2%)	-34 (-5%)	-2 (-0.4%)	-15 (-2.3%)
FEB	W	561 (53.1%)	122 (8.2%)	557 (52.7%)	119 (7.9%)	424 (40.1%)	-14 (-1%)	391 (37%)	-47 (-3.2%)
	AN	354 (51.4%)	260 (33.1%)	354 (51.4%)	260 (33.1%)	77 (11.2%)	-17 (-2.2%)	-156 (-22.7%)	-251 (-32%)
	BN	145 (28.1%)	94 (16.5%)	145 (28.1%)	94 (16.5%)	145 (28.1%)	94 (16.5%)	145 (28.1%)	94 (16.5%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	254 (40.1%)	93 (11.7%)	253 (40%)	92 (11.5%)	171 (26.9%)	9 (1.1%)	126 (19.9%)	-36 (-4.5%)
MAR	W	229 (18.9%)	53 (3.8%)	271 (22.4%)	95 (6.9%)	176 (14.6%)	0 (0%)	176 (14.6%)	0 (0%)
	AN	83 (19.1%)	0 (0%)	83 (19.1%)	0 (0%)	83 (19.1%)	0 (0%)	83 (19.1%)	0 (0%)
	BN	-19 (-5.8%)	0 (0%)	-19 (-5.8%)	0 (0%)	-19 (-5.8%)	0 (0%)	-19 (-5.8%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	82 (13.3%)	17 (2.5%)	95 (15.5%)	30 (4.5%)	65 (10.6%)	0 (0%)	65 (10.6%)	0 (0%)
APR	W	122 (17%)	0 (0%)	122 (17%)	0 (0%)	122 (17%)	0 (0%)	122 (17%)	0 (0%)
	AN	-11 (-2.3%)	-54 (-10.6%)	43 (9.3%)	0 (0.1%)	-11 (-2.3%)	-54 (-10.6%)	-11 (-2.3%)	-54 (-10.6%)
	BN	-3 (-0.7%)	0 (0%)	-3 (-0.7%)	0 (0%)	-3 (-0.7%)	0 (0%)	-3 (-0.7%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	5 (0.9%)	0 (0%)	5 (0.9%)	0 (0%)	5 (0.9%)	0 (0%)	5 (0.9%)	0 (0%)
	All	37 (6.4%)	-8 (-1.3%)	45 (7.8%)	0 (0%)	37 (6.4%)	-8 (-1.3%)	37 (6.4%)	-8 (-1.3%)

Alternative 4: Upstream—Trinity River below Lewiston									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
MAY	W	-16 (-0.3%)	0 (0%)	-16 (-0.3%)	0 (0%)	-16 (-0.3%)	0 (0%)	-16 (-0.3%)	0 (0%)
	AN	-46 (-1%)	0 (0%)	-46 (-1%)	0 (0%)	-46 (-1%)	0 (0%)	-46 (-1%)	0 (0%)
	BN	90 (2.4%)	0 (0%)	90 (2.4%)	0 (0%)	90 (2.4%)	0 (0%)	90 (2.4%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	-119 (-5.7%)	0 (0%)	-119 (-5.7%)	0 (0%)	-119 (-5.7%)	0 (0%)	-119 (-5.7%)	0 (0%)
	All	-14 (-0.4%)	0 (0%)	-14 (-0.4%)	0 (0%)	-14 (-0.4%)	0 (0%)	-14 (-0.4%)	0 (0%)
JUN	W	189 (5.6%)	0 (0%)	189 (5.6%)	0 (0%)	189 (5.6%)	0 (0%)	189 (5.6%)	0 (0%)
	AN	700 (28.1%)	0 (0%)	700 (28.1%)	0 (0%)	700 (28.1%)	0 (0%)	700 (28.1%)	0 (0%)
	BN	96 (5.7%)	0 (0%)	96 (5.7%)	0 (0%)	96 (5.7%)	0 (0%)	96 (5.7%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	179 (8.5%)	0 (0%)	179 (8.5%)	0 (0%)	179 (8.5%)	0 (0%)	179 (8.5%)	0 (0%)
JUL	W	-185 (-14.4%)	0 (0%)	-185 (-14.4%)	0 (0%)	-185 (-14.4%)	0 (0%)	-185 (-14.4%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	47 (5.4%)	0 (0%)	47 (5.4%)	0 (0%)	47 (5.4%)	0 (0%)	47 (5.4%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	37 (9.1%)	0 (0%)	37 (9.1%)	0 (0%)	37 (9.1%)	0 (0%)	37 (9.1%)
	All	-51 (-5.5%)	5 (0.6%)	-51 (-5.5%)	5 (0.6%)	-51 (-5.5%)	5 (0.6%)	-51 (-5.5%)	5 (0.6%)
AUG	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	-150 (-33.3%)	-37 (-11.1%)	-112 (-25%)	0 (0%)	-150 (-33.3%)	-37 (-11.1%)	-75 (-16.7%)	38 (11.1%)
	All	-22 (-4.9%)	-5 (-1.3%)	-16 (-3.7%)	0 (0%)	-22 (-4.9%)	-5 (-1.3%)	-11 (-2.4%)	5 (1.3%)

Alternative 4: Upstream—Trinity River below Lewiston									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
SEP	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	-225 (-50%)	-40 (-15.1%)	-170 (-37.8%)	15 (5.5%)	-202 (-44.9%)	-17 (-6.6%)	-135 (-29.9%)	50 (18.9%)
	All	-33 (-7.3%)	-6 (-1.4%)	-25 (-5.5%)	2 (0.5%)	-30 (-6.6%)	-3 (-0.6%)	-20 (-4.4%)	7 (1.7%)
OCT	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	-41 (-11.1%)	21 (6.7%)	-59 (-15.9%)	3 (1%)	-41 (-11.1%)	21 (6.7%)	-41 (-11.1%)	21 (6.7%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	-21 (-5.6%)	6 (1.9%)	-21 (-5.6%)	6 (1.9%)	-21 (-5.6%)	6 (1.9%)	-21 (-5.6%)	6 (1.9%)
	C	-93 (-25%)	-31 (-10%)	-62 (-16.7%)	0 (0%)	-93 (-25%)	-31 (-10%)	-62 (-16.7%)	0 (0%)
	All	-24 (-6.6%)	0 (0%)	-22 (-6.1%)	2 (0.5%)	-24 (-6.6%)	0 (0%)	-20 (-5.3%)	4 (1.3%)
NOV	W	-123 (-25.2%)	-49 (-11.7%)	-87 (-17.8%)	-12 (-3%)	-123 (-25.2%)	-49 (-11.7%)	-123 (-25.2%)	-49 (-11.7%)
	AN	-25 (-8.3%)	0 (0%)	-25 (-8.3%)	0 (0%)	-25 (-8.3%)	0 (0%)	-25 (-8.3%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	-17 (-5.6%)	0 (0%)	-17 (-5.6%)	0 (0%)	-17 (-5.6%)	0 (0%)	-17 (-5.6%)	0 (0%)
	C	-75 (-25%)	0 (0%)	-50 (-16.7%)	25 (11.1%)	-75 (-25%)	0 (0%)	-75 (-25%)	0 (0%)
	All	-57 (-15.9%)	-15 (-4.8%)	-42 (-11.7%)	0 (-0.1%)	-57 (-15.9%)	-15 (-4.8%)	-57 (-15.9%)	-15 (-4.8%)
DEC	W	80 (7.5%)	315 (37.6%)	98 (9.1%)	333 (39.8%)	-146 (-13.6%)	89 (10.7%)	-134 (-12.5%)	101 (12.1%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	-1 (-0.4%)	-1 (-0.4%)	0 (0%)	0 (0%)	-2 (-0.7%)	-2 (-0.7%)	0 (0%)	0 (0%)
	C	-28 (-9.3%)	-3 (-0.9%)	-3 (-0.9%)	22 (8.2%)	-28 (-9.3%)	-3 (-0.9%)	-28 (-9.3%)	-3 (-0.9%)
	All	21 (3.8%)	99 (21.3%)	31 (5.6%)	109 (23.3%)	-51 (-9.3%)	27 (5.9%)	-47 (-8.5%)	32 (6.8%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.4.1.6 Clear Creek below Whiskeytown**

2 **Table 11. Mean Monthly Flows (cfs) for Model Scenarios in Clear Creek Below Whiskeytown,**
 3 **Year-Round**

Alternative 4: Upstream—Clear Creek below Whiskeytown							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
JAN	W	220	339	339	339	339	339
	AN	192	192	192	192	192	192
	BN	189	189	189	189	189	189
	D	184	192	192	192	192	192
	C	155	159	162	171	171	171
	All	193	233	234	235	235	235
FEB	W	220	257	257	257	257	257
	AN	197	196	196	196	196	196
	BN	189	189	189	190	189	189
	D	184	192	192	192	192	192
	C	155	168	171	171	171	171
	All	194	209	210	210	210	210
MAR	W	200	259	258	259	258	259
	AN	197	196	196	196	196	196
	BN	189	202	196	203	201	201
	D	186	192	192	192	192	192
	C	155	168	171	171	171	171
	All	188	212	211	212	212	212
APR	W	200	200	200	200	200	200
	AN	197	196	196	230	196	196
	BN	189	189	196	190	189	189
	D	188	192	192	192	192	192
	C	155	168	171	171	171	171
	All	189	191	193	197	191	192
MAY	W	277	277	277	277	277	277
	AN	277	277	277	277	277	277
	BN	263	269	269	269	269	269
	D	264	264	264	264	264	264
	C	211	224	224	224	224	224
	All	262	265	265	265	265	265
JUN	W	200	200	200	200	200	200
	AN	200	200	200	200	200	200
	BN	181	186	186	186	186	186
	D	180	180	180	180	180	180
	C	115	131	120	120	120	120
	All	180	183	181	181	181	181
JUL	W	85	85	85	85	85	85
	AN	85	85	85	85	85	85
	BN	85	85	85	85	85	85
	D	85	85	85	85	85	85
	C	85	85	88	98	85	98
	All	85	85	85	87	85	87

Alternative 4: Upstream—Clear Creek below Whiskeytown							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
AUG	W	85	85	85	85	85	85
	AN	85	85	85	85	85	85
	BN	85	85	85	85	85	85
	D	85	85	85	85	85	85
	C	94	71	78	78	71	78
	All	86	83	84	84	83	84
SEP	W	150	150	150	150	150	150
	AN	150	150	150	150	150	150
	BN	150	150	150	150	150	150
	D	144	150	150	150	150	150
	C	133	96	96	108	96	96
	All	146	142	142	144	142	142
OCT	W	198	198	198	198	198	198
	AN	183	183	183	183	183	183
	BN	189	182	189	179	189	179
	D	175	183	175	175	180	175
	C	150	142	152	142	142	142
	All	182	182	183	179	182	179
NOV	W	198	198	198	198	198	198
	AN	185	182	182	182	182	182
	BN	184	189	189	189	189	189
	D	177	177	176	177	177	177
	C	155	145	145	146	158	158
	All	183	182	182	182	184	184
DEC	W	198	198	198	198	198	198
	AN	185	192	192	192	192	192
	BN	189	189	189	189	189	189
	D	177	189	189	189	189	189
	C	155	156	171	171	171	158
	All	184	187	190	190	190	188

1 **Table 12. Differences^a (Percent Differences) between Pairs of Model Scenarios in Clear Creek Below**
 2 **Whiskeytown, Year-Round**

Alternative 4: Upstream—Clear Creek below Whiskeytown									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
JAN	W	118 (53.6%)	0 (-0.1%)	119 (53.8%)	0 (0%)	118 (53.6%)	0 (-0.1%)	118 (53.7%)	0 (0%)
	AN	0 (-0.1%)	0 (0%)	0 (0%)	0 (0.1%)	0 (-0.1%)	0 (0%)	0 (-0.1%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	7 (3.9%)	0 (0%)	7 (3.9%)	0 (0%)	7 (3.9%)	0 (0%)	7 (3.9%)	0 (0%)
	C	7 (4.5%)	3 (1.8%)	16 (10.2%)	12 (7.4%)	16 (10.2%)	12 (7.4%)	16 (10.2%)	12 (7.4%)
	All	40 (20.7%)	0 (0.1%)	41 (21.4%)	2 (0.8%)	41 (21.4%)	2 (0.7%)	41 (21.4%)	2 (0.7%)
FEB	W	38 (17.1%)	0 (-0.1%)	38 (17.2%)	0 (0%)	38 (17.1%)	0 (-0.1%)	38 (17.2%)	0 (0%)
	AN	-1 (-0.4%)	0 (0%)	-1 (-0.3%)	0 (0.1%)	-1 (-0.4%)	0 (0%)	-1 (-0.3%)	0 (0.1%)
	BN	0 (0%)	0 (0%)	0 (0.2%)	0 (0.2%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	7 (3.9%)	0 (0%)	7 (3.9%)	0 (0%)	7 (3.9%)	0 (0%)	7 (3.9%)	0 (0%)
	C	16 (10.2%)	3 (1.7%)	16 (10.2%)	3 (1.7%)	16 (10.2%)	3 (1.7%)	16 (10.2%)	3 (1.7%)
	All	16 (8.1%)	0 (0.2%)	16 (8.2%)	1 (0.3%)	16 (8.1%)	0 (0.2%)	16 (8.1%)	0 (0.2%)
MAR	W	58 (29.2%)	0 (-0.1%)	59 (29.4%)	0 (0%)	58 (29.2%)	0 (-0.1%)	59 (29.3%)	0 (0%)
	AN	-1 (-0.4%)	0 (0%)	-1 (-0.3%)	0 (0.1%)	-1 (-0.4%)	0 (0%)	-1 (-0.3%)	0 (0.1%)
	BN	6 (3.4%)	-6 (-3%)	14 (7.3%)	1 (0.7%)	12 (6.1%)	-1 (-0.4%)	12 (6.1%)	-1 (-0.4%)
	D	6 (3.2%)	0 (0%)	6 (3.2%)	0 (0%)	6 (3.2%)	0 (0%)	6 (3.2%)	0 (0%)
	C	16 (10.2%)	3 (1.7%)	16 (10.2%)	3 (1.7%)	16 (10.2%)	3 (1.7%)	16 (10.2%)	3 (1.7%)
	All	23 (12.3%)	-1 (-0.3%)	25 (13%)	1 (0.3%)	24 (12.8%)	0 (0.1%)	24 (12.8%)	0 (0.1%)
APR	W	0 (0%)	0 (-0.1%)	0 (0.2%)	0 (0.1%)	0 (0%)	0 (-0.1%)	0 (0.1%)	0 (0%)
	AN	-1 (-0.4%)	0 (0%)	33 (17%)	34 (17.5%)	-1 (-0.4%)	0 (0%)	-1 (-0.3%)	0 (0.1%)
	BN	6 (3.4%)	6 (3.4%)	0 (0.2%)	0 (0.2%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	3 (1.7%)	0 (0%)	3 (1.7%)	0 (0%)	3 (1.7%)	0 (0%)	3 (1.7%)	0 (0%)
	C	16 (10.2%)	3 (1.7%)	16 (10.2%)	3 (1.7%)	16 (10.2%)	3 (1.7%)	16 (10.2%)	3 (1.7%)
	All	4 (2.1%)	1 (0.7%)	8 (4.3%)	6 (2.9%)	3 (1.5%)	0 (0.2%)	3 (1.6%)	0 (0.2%)

Alternative 4: Upstream—Clear Creek below Whiskeytown									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITION S vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITION S vs. H4	NAA vs. H4
MAY	W	0 (0.2%)	0 (0%)	0 (0.2%)	0 (0%)	0 (0.2%)	0 (0%)	0 (0.2%)	0 (0%)
	AN	0 (0.2%)	0 (0%)	0 (0.2%)	0 (0%)	0 (0.2%)	0 (0%)	0 (0.2%)	0 (0%)
	BN	6 (2.4%)	0 (0.1%)	6 (2.3%)	0 (0%)	6 (2.3%)	0 (0%)	6 (2.3%)	0 (0%)
	D	0 (0.1%)	0 (0%)	0 (0.1%)	0 (0%)	0 (0.1%)	0 (0%)	0 (0.1%)	0 (0%)
	C	13 (6.4%)	0 (0%)	13 (6.4%)	0 (0%)	13 (6.4%)	0 (0%)	13 (6.4%)	0 (0%)
	All	3 (1.3%)	0 (0%)	3 (1.3%)	0 (0%)	3 (1.3%)	0 (0%)	3 (1.3%)	0 (0%)
JUN	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	5 (2.6%)	0 (0%)	5 (2.6%)	0 (0%)	5 (2.6%)	0 (0%)	5 (2.6%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	5 (4.7%)	-11 (-8.2%)	5 (4.7%)	-11 (-8.2%)	5 (4.7%)	-11 (-8.2%)	5 (4.7%)	-11 (-8.2%)
	All	2 (0.9%)	-2 (-0.9%)	2 (0.9%)	-2 (-0.9%)	2 (0.9%)	-2 (-0.9%)	2 (0.9%)	-2 (-0.9%)
JUL	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	3 (3.3%)	3 (3.3%)	13 (15.5%)	13 (15.5%)	0 (0%)	0 (0%)	13 (15.5%)	13 (15.5%)
	All	0 (0.5%)	0 (0.5%)	2 (2.3%)	2 (2.3%)	0 (0%)	0 (0%)	2 (2.3%)	2 (2.3%)
AUG	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	-16 (-17.4%)	7 (10%)	-16 (-17.4%)	7 (10%)	-23 (-24.9%)	0 (0%)	-16 (-17.2%)	7 (10.3%)
	All	-2 (-2.8%)	1 (1.3%)	-2 (-2.8%)	1 (1.2%)	-3 (-4%)	0 (0%)	-2 (-2.7%)	1 (1.3%)

Alternative 4: Upstream—Clear Creek below Whiskeytown									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITION S vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITION S vs. H4	NAA vs. H4
SEP	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	6 (3.8%)	0 (0%)	6 (3.8%)	0 (0%)	6 (3.8%)	0 (0%)	6 (3.8%)	0 (0%)
	C	-37 (-28.1%)	0 (0%)	-25 (-18.7%)	13 (13%)	-37 (-28.1%)	0 (0%)	-37 (-28.1%)	0 (0%)
	All	-4 (-2.9%)	0 (0%)	-2 (-1.7%)	2 (1.3%)	-4 (-2.9%)	0 (0%)	-4 (-2.9%)	0 (0%)
OCT	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	7 (4.1%)	-11 (-5.7%)	-3 (-1.8%)	0 (0%)	7 (4.1%)	-11 (-5.7%)	-3 (-1.8%)
	D	0 (0%)	-8 (-4.5%)	0 (0%)	-8 (-4.5%)	5 (2.8%)	-3 (-1.9%)	0 (0%)	-8 (-4.5%)
	C	2 (1.5%)	11 (7.5%)	-8 (-5.6%)	0 (0%)	-8 (-5.6%)	0 (0%)	-8 (-5.6%)	0 (0%)
	All	0 (0.2%)	1 (0.5%)	-3 (-1.7%)	-2 (-1.3%)	0 (-0.1%)	1 (0.3%)	-3 (-1.7%)	-2 (-1.3%)
NOV	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	-3 (-1.8%)	0 (0%)	-3 (-1.8%)	0 (0%)	-3 (-1.8%)	0 (0%)	-3 (-1.8%)	0 (0%)
	BN	6 (3.1%)	0 (0%)	6 (3.1%)	0 (0%)	6 (3.1%)	0 (0%)	6 (3.1%)	0 (0%)
	D	-1 (-0.6%)	0 (-0.2%)	-1 (-0.4%)	0 (0%)	-1 (-0.3%)	0 (0.1%)	-1 (-0.4%)	0 (0%)
	C	-10 (-6.1%)	0 (0%)	-9 (-5.9%)	0 (0.3%)	3 (1.9%)	12 (8.6%)	3 (1.9%)	12 (8.6%)
	All	-1 (-0.6%)	0 (0%)	-1 (-0.5%)	0 (0%)	1 (0.4%)	2 (1%)	1 (0.4%)	2 (1%)
DEC	W	0 (0%)	0 (0%)	0 (0.1%)	0 (0.1%)	0 (0%)	0 (0%)	0 (0.1%)	0 (0.1%)
	AN	7 (3.6%)	0 (0%)	7 (3.6%)	0 (0%)	7 (3.6%)	0 (0%)	7 (3.6%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	12 (6.6%)	0 (0%)	12 (6.6%)	0 (0%)	12 (6.6%)	0 (0%)	12 (6.6%)	0 (0%)
	C	16 (10.2%)	15 (9.7%)	16 (10.2%)	15 (9.7%)	16 (10.2%)	15 (9.7%)	3 (2.2%)	3 (1.6%)
	All	6 (3.2%)	2 (1.2%)	6 (3.2%)	2 (1.2%)	6 (3.2%)	2 (1.2%)	4 (2.2%)	0 (0.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.4.1.7 Feather River Low-Flow Channel (Upstream of Thermalito**
 2 **Afterbay)**

3 **Table 13. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River Upstream of Thermalito**
 4 **Afterbay (Low-Flow Channel), Year-Round**

Alternative 4: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
JAN	W	800	800	800	800	800	800
	AN	800	800	800	800	800	800
	BN	800	800	800	800	800	800
	D	800	800	800	800	800	800
	C	800	800	800	800	800	800
	All	800	800	800	800	800	800
FEB	W	800	800	800	800	800	800
	AN	800	800	800	800	800	800
	BN	800	800	800	800	800	800
	D	800	800	800	800	800	800
	C	800	800	800	800	800	800
	All	800	800	800	800	800	800
MAR	W	800	800	800	800	800	800
	AN	800	800	800	800	800	800
	BN	800	800	800	800	800	800
	D	800	800	800	800	800	800
	C	800	800	800	800	800	800
	All	800	800	800	800	800	800
APR	W	700	700	700	700	700	700
	AN	700	700	700	700	700	700
	BN	700	700	700	700	700	700
	D	700	700	700	700	700	700
	C	700	700	700	700	700	700
	All	700	700	700	700	700	700
MAY	W	700	700	700	700	700	700
	AN	700	700	700	700	700	700
	BN	700	700	700	700	700	700
	D	700	700	700	700	700	700
	C	700	700	700	700	700	700
	All	700	700	700	700	700	700
JUN	W	700	700	700	700	700	700
	AN	700	700	700	700	700	700
	BN	700	700	700	700	700	700
	D	700	700	700	700	700	700
	C	700	700	700	700	700	700
	All	700	700	700	700	700	700

Alternative 4: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
JUL	W	700	700	700	700	700	700
	AN	700	700	700	700	700	700
	BN	700	700	700	700	700	700
	D	700	700	700	700	700	700
	C	700	700	700	700	700	700
	All	700	700	700	700	700	700
AUG	W	700	700	700	700	700	699
	AN	700	700	700	700	700	697
	BN	700	700	700	700	700	700
	D	700	700	700	700	700	700
	C	700	700	700	700	700	679
	All	700	700	700	700	700	696
SEP	W	773	773	773	773	773	773
	AN	773	773	773	773	773	773
	BN	773	773	773	773	773	773
	D	773	773	773	770	773	772
	C	773	773	773	773	773	773
	All	773	773	773	773	773	773
OCT	W	800	800	800	800	800	800
	AN	800	800	800	800	800	800
	BN	800	800	800	800	800	800
	D	800	800	800	800	800	800
	C	800	800	800	800	800	800
	All	800	800	800	800	800	800
NOV	W	800	800	800	800	800	800
	AN	800	800	800	800	800	800
	BN	800	800	800	800	800	800
	D	800	800	800	800	800	800
	C	800	800	800	800	800	800
	All	800	800	800	800	800	800
DEC	W	800	800	800	800	800	800
	AN	800	800	800	800	800	800
	BN	800	800	800	800	800	800
	D	800	800	800	800	800	800
	C	800	800	800	800	800	800
	All	800	800	800	800	800	800

1 **Table 14. Differences (Percent Differences) between Pairs of Model Scenarios in the Feather River**
 2 **Upstream of Thermalito Afterbay (Low-Flow Channel), Year-Round**

Alternative 4: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
JAN	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
FEB	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
MAR	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
APR	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
MAY	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
JUN	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
JUL	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Alternative 4: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
AUG	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-1 (-0.2%)	-1 (-0.2%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-3 (-0.4%)	-3 (-0.4%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-21 (-2.9%)	-21 (-2.9%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-4 (-0.6%)	-4 (-0.6%)
SEP	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	-3 (-0.4%)	-4 (-0.5%)	0 (0%)	0 (0%)	-1 (-0.1%)	-1 (-0.2%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (-0.1%)	-1 (-0.1%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
OCT	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
NOV	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
DEC	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.4.1.8 Feather River High-Flow Channel (at Thermalito Afterbay)**

2 **Table 15. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at Thermalito Afterbay**
 3 **(High-Flow Channel), Year-Round**

Alternative 4: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
JAN	W	11,257	11,896	13,569	13,308	11,023	12,105
	AN	4,434	2,838	3,673	3,798	2,874	3,687
	BN	2,640	1,441	1,387	1,862	1,419	1,602
	D	1,798	1,459	1,802	1,810	1,556	1,521
	C	1,459	1,648	1,691	1,976	1,721	1,620
	All	5,277	4,995	5,720	5,780	4,751	5,222
FEB	W	12,466	14,787	16,167	15,655	16,276	15,221
	AN	7,411	5,809	7,609	8,383	6,955	7,555
	BN	3,916	1,897	2,763	3,752	2,145	2,760
	D	1,817	1,659	1,676	1,548	1,636	1,551
	C	1,610	1,482	1,404	1,407	1,516	1,496
	All	6,340	6,444	7,285	7,377	7,126	6,962
MAR	W	12,895	14,772	14,854	14,943	14,401	14,794
	AN	7,733	8,568	10,269	9,610	9,456	8,466
	BN	3,373	1,985	2,061	2,681	1,598	2,140
	D	2,017	1,762	1,955	1,969	1,930	1,796
	C	1,697	1,634	1,759	1,814	1,729	1,766
	All	6,487	6,902	7,251	7,300	6,900	6,948
APR	W	6,472	6,408	6,402	9,816	6,399	9,774
	AN	2,251	2,170	2,280	6,591	2,180	5,997
	BN	1,205	1,203	1,762	6,390	1,728	7,436
	D	1,286	1,470	2,134	2,059	2,036	2,097
	C	1,389	1,407	1,731	1,443	1,637	1,471
	All	3,073	3,084	3,386	5,831	3,330	5,922
MAY	W	7,528	4,740	5,021	7,370	5,060	7,908
	AN	3,340	3,101	3,914	5,420	3,929	5,979
	BN	1,205	1,749	2,526	3,807	2,780	3,581
	D	1,591	2,223	2,638	2,773	2,563	2,646
	C	1,574	1,790	1,779	1,771	1,762	1,783
	All	3,661	3,005	3,436	4,648	3,475	4,836
JUN	W	5,062	4,211	6,031	4,093	6,423	3,916
	AN	3,301	3,930	6,963	4,390	7,008	4,501
	BN	2,707	3,552	6,303	5,558	6,365	4,731
	D	3,134	3,284	3,875	4,020	3,790	3,319
	C	2,695	2,666	2,582	2,626	2,648	2,607
	All	3,632	3,628	5,236	4,156	5,368	3,818
JUL	W	6,490	8,577	7,629	5,684	7,849	6,348
	AN	8,757	9,488	9,241	5,931	9,427	5,855
	BN	8,981	8,833	7,746	6,721	7,843	6,486
	D	8,294	8,099	5,551	5,420	5,117	4,690
	C	6,703	5,217	2,933	3,348	2,618	3,235
	All	7,674	8,157	6,742	5,497	6,714	5,480

Alternative 4: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
AUG	W	3,308	6,228	5,025	3,300	5,037	3,362
	AN	6,042	7,346	5,930	4,505	5,955	3,976
	BN	6,295	6,868	5,739	4,550	5,550	3,898
	D	7,036	4,990	4,257	3,687	3,743	3,119
	C	2,613	2,163	2,066	2,599	2,116	2,728
	All	4,935	5,634	4,678	3,672	4,547	3,397
SEP	W	2,280	8,327	1,208	1,119	7,049	6,453
	AN	2,253	6,899	2,318	1,573	5,142	4,094
	BN	2,466	3,068	1,670	1,212	1,790	1,219
	D	2,366	1,052	1,713	1,564	1,266	1,541
	C	1,421	1,345	1,875	2,398	1,638	2,495
	All	2,201	4,601	1,658	1,486	3,811	3,557
OCT	W	3,456	3,051	3,243	2,873	3,087	2,782
	AN	2,386	2,741	3,287	2,718	3,163	2,917
	BN	3,183	2,862	2,950	2,816	2,895	2,990
	D	2,688	2,652	2,970	2,607	3,101	2,272
	C	2,472	2,102	2,887	3,031	2,656	3,172
	All	2,940	2,747	3,087	2,805	3,006	2,782
NOV	W	3,292	2,470	2,790	2,648	2,391	2,485
	AN	1,824	2,119	1,906	1,769	1,916	1,883
	BN	2,101	1,900	1,873	1,757	1,904	1,885
	D	1,859	1,664	1,796	1,604	1,782	1,678
	C	1,854	1,876	1,837	2,143	1,829	2,052
	All	2,349	2,058	2,146	2,064	2,022	2,054
DEC	W	7,157	3,948	5,293	6,461	4,456	5,222
	AN	2,951	3,344	3,361	1,816	2,864	3,012
	BN	2,176	2,102	2,616	2,108	2,029	1,948
	D	2,364	2,229	2,062	1,849	2,221	2,090
	C	2,609	1,694	2,622	2,207	2,610	1,967
	All	3,973	2,837	3,453	3,403	3,048	3,175

1 **Table 16. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Feather River at**
 2 **Thermalito Afterbay (High-Flow Channel), Year-Round**

Alternative 4: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
JAN	W	2,312 (20.5%)	1,674 (14.1%)	2,051 (18.2%)	1,413 (11.9%)	-235 (-2.1%)	-873 (-7.3%)	847 (7.5%)	209 (1.8%)
	AN	-761 (-17.2%)	835 (29.4%)	-635 (-14.3%)	960 (33.8%)	-1,559 (-35.2%)	36 (1.3%)	-747 (-16.8%)	848 (29.9%)
	BN	-1,253 (-47.5%)	-54 (-3.7%)	-777 (-29.4%)	421 (29.2%)	-1,221 (-46.3%)	-22 (-1.6%)	-1,038 (-39.3%)	161 (11.2%)
	D	4 (0.2%)	343 (23.5%)	12 (0.7%)	351 (24.1%)	-242 (-13.5%)	97 (6.7%)	-278 (-15.4%)	62 (4.2%)
	C	231 (15.9%)	43 (2.6%)	517 (35.4%)	328 (19.9%)	262 (17.9%)	73 (4.4%)	161 (11%)	-28 (-1.7%)
	All	443 (8.4%)	725 (14.5%)	503 (9.5%)	785 (15.7%)	-526 (-10%)	-243 (-4.9%)	-55 (-1%)	227 (4.6%)
FEB	W	3,701 (29.7%)	1,380 (9.3%)	3,189 (25.6%)	868 (5.9%)	3,810 (30.6%)	1,489 (10.1%)	2,755 (22.1%)	434 (2.9%)
	AN	199 (2.7%)	1,801 (31%)	972 (13.1%)	2,574 (44.3%)	-456 (-6.2%)	1,146 (19.7%)	144 (1.9%)	1,747 (30.1%)
	BN	-1,153 (-29.4%)	866 (45.7%)	-164 (-4.2%)	1,855 (97.8%)	-1,771 (-45.2%)	248 (13.1%)	-1,156 (-29.5%)	863 (45.5%)
	D	-141 (-7.8%)	16 (1%)	-268 (-14.8%)	-111 (-6.7%)	-181 (-9.9%)	-23 (-1.4%)	-266 (-14.6%)	-109 (-6.5%)
	C	-207 (-12.8%)	-78 (-5.3%)	-203 (-12.6%)	-75 (-5%)	-94 (-5.9%)	34 (2.3%)	-114 (-7.1%)	15 (1%)
	All	944 (14.9%)	841 (13.1%)	1,037 (16.4%)	933 (14.5%)	785 (12.4%)	682 (10.6%)	622 (9.8%)	519 (8.1%)
MAR	W	1,959 (15.2%)	82 (0.6%)	2,048 (15.9%)	171 (1.2%)	1,506 (11.7%)	-371 (-2.5%)	1,899 (14.7%)	22 (0.1%)
	AN	2,536 (32.8%)	1,701 (19.9%)	1,877 (24.3%)	1,042 (12.2%)	1,724 (22.3%)	888 (10.4%)	733 (9.5%)	-102 (-1.2%)
	BN	-1,313 (-38.9%)	76 (3.8%)	-692 (-20.5%)	697 (35.1%)	-1,775 (-52.6%)	-387 (-19.5%)	-1,233 (-36.6%)	156 (7.8%)
	D	-62 (-3.1%)	193 (10.9%)	-47 (-2.4%)	207 (11.8%)	-87 (-4.3%)	168 (9.5%)	-221 (-11%)	34 (1.9%)
	C	63 (3.7%)	126 (7.7%)	117 (6.9%)	180 (11%)	32 (1.9%)	95 (5.8%)	69 (4.1%)	132 (8.1%)
	All	764 (11.8%)	349 (5.1%)	813 (12.5%)	398 (5.8%)	412 (6.4%)	-3 (0%)	460 (7.1%)	45 (0.7%)
APR	W	-71 (-1.1%)	-7 (-0.1%)	3,343 (51.7%)	3,408 (53.2%)	-73 (-1.1%)	-9 (-0.1%)	3,302 (51%)	3,366 (52.5%)
	AN	29 (1.3%)	110 (5.1%)	4,340 (192.8%)	4,421 (203.7%)	-71 (-3.1%)	10 (0.5%)	3,746 (166.4%)	3,827 (176.4%)
	BN	557 (46.3%)	559 (46.5%)	5,185 (430.4%)	5,187 (431.1%)	523 (43.4%)	524 (43.6%)	6,231 (517.3%)	6,233 (518%)
	D	848 (65.9%)	664 (45.1%)	773 (60.1%)	589 (40%)	750 (58.3%)	565 (38.4%)	811 (63.1%)	627 (42.6%)
	C	342 (24.6%)	324 (23%)	54 (3.9%)	36 (2.6%)	248 (17.9%)	230 (16.3%)	82 (5.9%)	64 (4.5%)
	All	313 (10.2%)	302 (9.8%)	2,758 (89.8%)	2,747 (89.1%)	257 (8.3%)	246 (8%)	2,849 (92.7%)	2,838 (92%)

Alternative 4: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
MAY	W	-2,507 (-33.3%)	281 (5.9%)	-158 (-2.1%)	2,630 (55.5%)	-2,468 (-32.8%)	320 (6.7%)	380 (5%)	3,168 (66.8%)
	AN	574 (17.2%)	812 (26.2%)	2,080 (62.3%)	2,319 (74.8%)	590 (17.7%)	828 (26.7%)	2,639 (79%)	2,878 (92.8%)
	BN	1,321 (109.6%)	778 (44.5%)	2,601 (215.8%)	2,058 (117.7%)	1,575 (130.6%)	1,032 (59%)	2,376 (197.1%)	1,833 (104.8%)
	D	1,047 (65.8%)	415 (18.6%)	1,182 (74.3%)	550 (24.7%)	972 (61.1%)	340 (15.3%)	1,055 (66.3%)	423 (19%)
	C	205 (13%)	-11 (-0.6%)	197 (12.5%)	-18 (-1%)	187 (11.9%)	-28 (-1.6%)	209 (13.3%)	-6 (-0.4%)
	All	-226 (-6.2%)	430 (14.3%)	987 (27%)	1,643 (54.7%)	-187 (-5.1%)	469 (15.6%)	1,175 (32.1%)	1,830 (60.9%)
JUN	W	969 (19.1%)	1,820 (43.2%)	-968 (-19.1%)	-117 (-2.8%)	1,361 (26.9%)	2,212 (52.5%)	-1,146 (-22.6%)	-295 (-7%)
	AN	3,662 (110.9%)	3,033 (77.2%)	1,089 (33%)	461 (11.7%)	3,707 (112.3%)	3,079 (78.3%)	1,199 (36.3%)	571 (14.5%)
	BN	3,596 (132.9%)	2,751 (77.5%)	2,851 (105.3%)	2,006 (56.5%)	3,658 (135.2%)	2,813 (79.2%)	2,024 (74.8%)	1,179 (33.2%)
	D	741 (23.7%)	591 (18%)	886 (28.3%)	736 (22.4%)	656 (20.9%)	506 (15.4%)	185 (5.9%)	35 (1.1%)
	C	-113 (-4.2%)	-84 (-3.2%)	-69 (-2.6%)	-40 (-1.5%)	-47 (-1.7%)	-18 (-0.7%)	-88 (-3.3%)	-59 (-2.2%)
	All	1,603 (44.1%)	1,608 (44.3%)	523 (14.4%)	528 (14.6%)	1,736 (47.8%)	1,741 (48%)	186 (5.1%)	190 (5.2%)
JUL	W	1,139 (17.6%)	-948 (-11.1%)	-806 (-12.4%)	-2,893 (-33.7%)	1,359 (20.9%)	-728 (-8.5%)	-143 (-2.2%)	-2,230 (-26%)
	AN	484 (5.5%)	-247 (-2.6%)	-2,826 (-32.3%)	-3,557 (-37.5%)	670 (7.7%)	-61 (-0.6%)	-2,901 (-33.1%)	-3,633 (-38.3%)
	BN	-1,234 (-13.7%)	-1,086 (-12.3%)	-2,260 (-25.2%)	-2,112 (-23.9%)	-1,138 (-12.7%)	-989 (-11.2%)	-2,494 (-27.8%)	-2,346 (-26.6%)
	D	-2,743 (-33.1%)	-2,548 (-31.5%)	-2,874 (-34.7%)	-2,679 (-33.1%)	-3,177 (-38.3%)	-2,981 (-36.8%)	-3,604 (-43.5%)	-3,409 (-42.1%)
	C	-3,770 (-56.2%)	-2,285 (-43.8%)	-3,355 (-50.1%)	-1,870 (-35.8%)	-4,085 (-60.9%)	-2,599 (-49.8%)	-3,468 (-51.7%)	-1,982 (-38%)
	All	-933 (-12.2%)	-1,416 (-17.4%)	-2,177 (-28.4%)	-2,660 (-32.6%)	-960 (-12.5%)	-1,444 (-17.7%)	-2,194 (-28.6%)	-2,677 (-32.8%)
AUG	W	1,717 (51.9%)	-1,203 (-19.3%)	-8 (-0.2%)	-2,928 (-47%)	1,729 (52.3%)	-1,191 (-19.1%)	54 (1.6%)	-2,866 (-46%)
	AN	-112 (-1.9%)	-1,416 (-19.3%)	-1,537 (-25.4%)	-2,841 (-38.7%)	-87 (-1.4%)	-1,391 (-18.9%)	-2,066 (-34.2%)	-3,370 (-45.9%)
	BN	-556 (-8.8%)	-1,129 (-16.4%)	-1,744 (-27.7%)	-2,318 (-33.7%)	-745 (-11.8%)	-1,318 (-19.2%)	-2,396 (-38.1%)	-2,970 (-43.2%)
	D	-2,779 (-39.5%)	-733 (-14.7%)	-3,350 (-47.6%)	-1,304 (-26.1%)	-3,294 (-46.8%)	-1,248 (-25%)	-3,917 (-55.7%)	-1,871 (-37.5%)
	C	-548 (-21%)	-97 (-4.5%)	-14 (-0.5%)	436 (20.2%)	-497 (-19%)	-47 (-2.2%)	115 (4.4%)	566 (26.1%)
	All	-257 (-5.2%)	-957 (-17%)	-1,263 (-25.6%)	-1,962 (-34.8%)	-388 (-7.9%)	-1,087 (-19.3%)	-1,537 (-31.2%)	-2,237 (-39.7%)

Alternative 4: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
SEP	W	-1,072 (-47%)	-7,118 (-85.5%)	-1,161 (-50.9%)	-7,208 (-86.6%)	4,769 (209.2%)	-1,278 (-15.3%)	4,173 (183%)	-1,874 (-22.5%)
	AN	65 (2.9%)	-4,582 (-66.4%)	-680 (-30.2%)	-5,327 (-77.2%)	2,889 (128.3%)	-1,757 (-25.5%)	1,841 (81.7%)	-2,805 (-40.7%)
	BN	-795 (-32.3%)	-1,398 (-45.6%)	-1,254 (-50.8%)	-1,856 (-60.5%)	-675 (-27.4%)	-1,278 (-41.6%)	-1,247 (-50.6%)	-1,849 (-60.3%)
	D	-653 (-27.6%)	661 (62.8%)	-802 (-33.9%)	512 (48.6%)	-1,100 (-46.5%)	214 (20.3%)	-824 (-34.8%)	489 (46.5%)
	C	455 (32%)	531 (39.5%)	977 (68.8%)	1,053 (78.3%)	218 (15.3%)	294 (21.8%)	1,075 (75.6%)	1,150 (85.6%)
	All	-543 (-24.7%)	-2,944 (-64%)	-715 (-32.5%)	-3,115 (-67.7%)	1,610 (73.2%)	-791 (-17.2%)	1,356 (61.6%)	-1,045 (-22.7%)
OCT	W	-213 (-6.2%)	192 (6.3%)	-583 (-16.9%)	-178 (-5.8%)	-369 (-10.7%)	36 (1.2%)	-674 (-19.5%)	-269 (-8.8%)
	AN	901 (37.7%)	546 (19.9%)	332 (13.9%)	-23 (-0.8%)	776 (32.5%)	422 (15.4%)	531 (22.2%)	176 (6.4%)
	BN	-233 (-7.3%)	88 (3.1%)	-367 (-11.5%)	-46 (-1.6%)	-288 (-9%)	34 (1.2%)	-193 (-6.1%)	128 (4.5%)
	D	282 (10.5%)	318 (12%)	-81 (-3%)	-45 (-1.7%)	413 (15.4%)	449 (16.9%)	-416 (-15.5%)	-380 (-14.3%)
	C	415 (16.8%)	785 (37.3%)	559 (22.6%)	929 (44.2%)	184 (7.5%)	554 (26.3%)	701 (28.4%)	1,070 (50.9%)
	All	147 (5%)	340 (12.4%)	-135 (-4.6%)	58 (2.1%)	65 (2.2%)	258 (9.4%)	-158 (-5.4%)	35 (1.3%)
NOV	W	-503 (-15.3%)	320 (12.9%)	-645 (-19.6%)	178 (7.2%)	-902 (-27.4%)	-79 (-3.2%)	-808 (-24.5%)	15 (0.6%)
	AN	82 (4.5%)	-214 (-10.1%)	-56 (-3%)	-351 (-16.5%)	92 (5.1%)	-203 (-9.6%)	59 (3.2%)	-236 (-11.1%)
	BN	-228 (-10.8%)	-27 (-1.4%)	-344 (-16.4%)	-143 (-7.5%)	-197 (-9.4%)	4 (0.2%)	-217 (-10.3%)	-16 (-0.8%)
	D	-64 (-3.4%)	131 (7.9%)	-256 (-13.8%)	-61 (-3.6%)	-78 (-4.2%)	117 (7.1%)	-181 (-9.7%)	14 (0.8%)
	C	-17 (-0.9%)	-38 (-2%)	289 (15.6%)	267 (14.2%)	-25 (-1.4%)	-47 (-2.5%)	198 (10.7%)	176 (9.4%)
	All	-203 (-8.6%)	89 (4.3%)	-285 (-12.1%)	6 (0.3%)	-327 (-13.9%)	-35 (-1.7%)	-295 (-12.6%)	-4 (-0.2%)
DEC	W	-1,864 (-26.1%)	1,345 (34.1%)	-696 (-9.7%)	2,513 (63.6%)	-2,701 (-37.7%)	508 (12.9%)	-1,935 (-27%)	1,274 (32.3%)
	AN	411 (13.9%)	18 (0.5%)	-1,135 (-38.5%)	-1,528 (-45.7%)	-87 (-2.9%)	-480 (-14.3%)	61 (2.1%)	-332 (-9.9%)
	BN	440 (20.2%)	514 (24.4%)	-68 (-3.1%)	6 (0.3%)	-147 (-6.7%)	-73 (-3.5%)	-228 (-10.5%)	-154 (-7.3%)
	D	-301 (-12.8%)	-167 (-7.5%)	-515 (-21.8%)	-380 (-17.1%)	-142 (-6%)	-8 (-0.4%)	-274 (-11.6%)	-139 (-6.2%)
	C	13 (0.5%)	928 (54.8%)	-402 (-15.4%)	513 (30.3%)	2 (0.1%)	916 (54.1%)	-642 (-24.6%)	273 (16.1%)
	All	-520 (-13.1%)	616 (21.7%)	-570 (-14.4%)	566 (19.9%)	-925 (-23.3%)	211 (7.4%)	-798 (-20.1%)	338 (11.9%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.4.1.9 Feather River at Confluence with Sacramento River**

2 **Table 17. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at the Confluence with**
 3 **the Sacramento River, Year-Round**

Alternative 4: Upstream—Feather River at Confluence with Sacramento River							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
JAN	W	23,533	26,106	27,778	27,508	25,241	26,310
	AN	12,430	11,953	12,792	12,924	11,993	12,810
	BN	6,499	5,575	5,522	5,996	5,556	5,737
	D	4,621	4,412	4,768	4,761	4,510	4,471
	C	3,646	3,837	3,875	4,160	3,921	3,806
	All	11,938	12,509	13,236	13,291	12,271	12,735
FEB	W	27,039	31,065	32,444	31,933	32,560	31,504
	AN	14,818	14,599	16,400	17,173	15,749	16,347
	BN	9,153	7,892	8,764	9,746	8,144	8,755
	D	4,402	4,436	4,453	4,322	4,413	4,328
	C	3,237	3,096	3,019	3,022	3,130	3,113
	All	13,744	14,761	15,603	15,693	15,446	15,282
MAR	W	24,172	26,784	26,873	26,953	26,416	26,811
	AN	19,990	21,490	23,191	22,526	22,379	21,385
	BN	8,136	6,882	6,970	7,582	6,480	7,024
	D	5,073	4,940	5,127	5,138	5,103	4,962
	C	2,933	2,756	2,907	3,005	2,844	2,938
	All	13,521	14,300	14,655	14,704	14,294	14,349
APR	W	15,897	15,852	15,853	19,265	15,852	19,220
	AN	9,832	9,585	9,696	14,007	9,598	13,420
	BN	5,401	5,189	5,755	10,378	5,722	11,424
	D	4,152	4,137	4,805	4,726	4,705	4,766
	C	3,298	3,185	3,514	3,230	3,418	3,258
	All	8,796	8,689	8,997	11,440	8,941	11,531
MAY	W	14,387	10,385	10,676	13,004	10,713	13,542
	AN	8,068	6,884	7,704	9,185	7,718	9,747
	BN	4,704	4,509	5,290	6,546	5,541	6,312
	D	3,652	3,767	4,182	4,315	4,106	4,188
	C	2,389	2,321	2,310	2,295	2,282	2,306
	All	7,697	6,237	6,672	7,868	6,708	8,055
JUN	W	10,222	7,199	9,022	7,068	9,407	6,899
	AN	6,391	5,598	8,594	6,014	8,637	6,120
	BN	4,495	4,342	7,095	6,347	7,154	5,537
	D	3,853	3,367	3,959	4,102	3,873	3,401
	C	2,782	2,522	2,423	2,369	2,504	2,350
	All	6,197	4,951	6,553	5,452	6,685	5,119
JUL	W	8,177	8,734	7,694	5,774	7,923	6,446
	AN	9,322	9,223	8,922	5,635	9,107	5,560
	BN	9,380	8,725	7,631	6,593	7,709	6,380
	D	8,290	7,674	5,101	4,970	4,658	4,231
	C	6,450	4,891	2,573	2,963	2,296	2,851
	All	8,322	8,009	6,544	5,306	6,519	5,293

Alternative 4: Upstream—Feather River at Confluence with Sacramento River							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LLT			
				H1	H2	H3	H4
AUG	W	4,923	7,222	5,763	4,048	5,801	4,116
	AN	7,080	8,089	6,629	5,268	6,652	4,739
	BN	7,236	7,570	6,442	5,233	6,239	4,625
	D	7,711	5,487	4,704	4,135	4,161	3,560
	C	2,841	2,340	2,214	2,736	2,306	2,841
	All	5,941	6,313	5,254	4,256	5,129	3,985
SEP	W	4,351	10,329	3,212	3,131	9,057	8,469
	AN	4,194	8,773	4,207	3,464	7,030	5,989
	BN	4,252	4,786	3,418	2,970	3,501	2,970
	D	4,179	2,848	3,465	3,305	2,991	3,269
	C	2,054	1,964	2,485	2,969	2,296	2,994
	All	3,937	6,289	3,342	3,167	5,490	5,225
OCT	W	4,176	3,746	3,967	3,593	3,795	3,486
	AN	2,630	2,988	3,543	2,982	3,409	3,162
	BN	3,754	3,437	3,535	3,401	3,467	3,562
	D	3,033	2,987	3,320	2,972	3,447	2,628
	C	2,938	2,566	3,357	3,493	3,123	3,638
	All	3,446	3,243	3,600	3,320	3,507	3,286
NOV	W	4,697	3,825	4,121	3,977	3,750	3,848
	AN	3,065	3,186	2,949	2,814	2,982	2,956
	BN	2,687	2,455	2,424	2,309	2,464	2,447
	D	2,342	2,125	2,254	2,068	2,243	2,141
	C	2,084	2,107	2,038	2,333	2,045	2,264
	All	3,216	2,873	2,945	2,862	2,838	2,872
DEC	W	12,409	10,246	11,590	12,754	10,755	11,520
	AN	5,193	6,000	6,021	4,478	5,523	5,673
	BN	3,079	3,249	3,768	3,255	3,181	3,097
	D	2,838	2,811	2,644	2,431	2,800	2,669
	C	2,975	2,054	2,991	2,568	2,973	2,332
	All	6,279	5,599	6,217	6,165	5,811	5,939

1 **Table 18. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Feather River at**
 2 **the Confluence with the Sacramento River, Year-Round**

Alternative 4: Upstream—Feather River at Confluence with Sacramento River									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
JAN	W	4,245 (18%)	1,672 (6.4%)	3,975 (16.9%)	1,403 (5.4%)	1,708 (7.3%)	-865 (-3.3%)	2,777 (11.8%)	205 (0.8%)
	AN	362 (2.9%)	838 (7%)	495 (4%)	971 (8.1%)	-437 (-3.5%)	40 (0.3%)	380 (3.1%)	857 (7.2%)
	BN	-977 (-15%)	-53 (-1%)	-503 (-7.7%)	421 (7.5%)	-944 (-14.5%)	-20 (-0.4%)	-762 (-11.7%)	162 (2.9%)
	D	147 (3.2%)	356 (8.1%)	140 (3%)	349 (7.9%)	-111 (-2.4%)	98 (2.2%)	-150 (-3.2%)	59 (1.3%)
	C	229 (6.3%)	39 (1%)	514 (14.1%)	323 (8.4%)	275 (7.5%)	85 (2.2%)	159 (4.4%)	-31 (-0.8%)
	All	1,298 (10.9%)	728 (5.8%)	1,353 (11.3%)	783 (6.3%)	332 (2.8%)	-238 (-1.9%)	797 (6.7%)	226 (1.8%)
FEB	W	5,405 (20%)	1,379 (4.4%)	4,894 (18.1%)	868 (2.8%)	5,521 (20.4%)	1,495 (4.8%)	4,465 (16.5%)	439 (1.4%)
	AN	1,582 (10.7%)	1,801 (12.3%)	2,354 (15.9%)	2,574 (17.6%)	930 (6.3%)	1,149 (7.9%)	1,528 (10.3%)	1,748 (12%)
	BN	-389 (-4.3%)	871 (11%)	593 (6.5%)	1,853 (23.5%)	-1,009 (-11%)	251 (3.2%)	-398 (-4.3%)	862 (10.9%)
	D	52 (1.2%)	17 (0.4%)	-80 (-1.8%)	-115 (-2.6%)	11 (0.3%)	-23 (-0.5%)	-74 (-1.7%)	-108 (-2.4%)
	C	-219 (-6.8%)	-78 (-2.5%)	-215 (-6.7%)	-74 (-2.4%)	-107 (-3.3%)	34 (1.1%)	-124 (-3.8%)	17 (0.5%)
	All	1,858 (13.5%)	842 (5.7%)	1,948 (14.2%)	932 (6.3%)	1,701 (12.4%)	685 (4.6%)	1,537 (11.2%)	521 (3.5%)
MAR	W	2,701 (11.2%)	89 (0.3%)	2,781 (11.5%)	169 (0.6%)	2,244 (9.3%)	-367 (-1.4%)	2,639 (10.9%)	27 (0.1%)
	AN	3,201 (16%)	1,701 (7.9%)	2,536 (12.7%)	1,036 (4.8%)	2,389 (12%)	890 (4.1%)	1,395 (7%)	-104 (-0.5%)
	BN	-1,166 (-14.3%)	88 (1.3%)	-554 (-6.8%)	700 (10.2%)	-1,656 (-20.4%)	-402 (-5.8%)	-1,112 (-13.7%)	142 (2.1%)
	D	54 (1.1%)	187 (3.8%)	65 (1.3%)	198 (4%)	30 (0.6%)	163 (3.3%)	-111 (-2.2%)	22 (0.4%)
	C	-26 (-0.9%)	151 (5.5%)	72 (2.4%)	248 (9%)	-88 (-3%)	88 (3.2%)	5 (0.2%)	182 (6.6%)
	All	1,134 (8.4%)	355 (2.5%)	1,183 (8.7%)	404 (2.8%)	772 (5.7%)	-6 (0%)	827 (6.1%)	49 (0.3%)
APR	W	-45 (-0.3%)	1 (0%)	3,368 (21.2%)	3,413 (21.5%)	-45 (-0.3%)	1 (0%)	3,322 (20.9%)	3,368 (21.2%)
	AN	-136 (-1.4%)	111 (1.2%)	4,175 (42.5%)	4,423 (46.1%)	-234 (-2.4%)	13 (0.1%)	3,588 (36.5%)	3,835 (40%)
	BN	354 (6.6%)	566 (10.9%)	4,977 (92.2%)	5,189 (100%)	321 (5.9%)	533 (10.3%)	6,023 (111.5%)	6,235 (120.2%)
	D	654 (15.7%)	669 (16.2%)	575 (13.8%)	590 (14.3%)	554 (13.3%)	569 (13.7%)	615 (14.8%)	629 (15.2%)
	C	216 (6.5%)	329 (10.3%)	-69 (-2.1%)	45 (1.4%)	120 (3.6%)	233 (7.3%)	-40 (-1.2%)	73 (2.3%)
	All	201 (2.3%)	308 (3.5%)	2,645 (30.1%)	2,751 (31.7%)	145 (1.7%)	252 (2.9%)	2,736 (31.1%)	2,843 (32.7%)

Alternative 4: Upstream—Feather River at Confluence with Sacramento River									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
MAY	W	-3,710 (-25.8%)	292 (2.8%)	-1,382 (-9.6%)	2,619 (25.2%)	-3,674 (-25.5%)	328 (3.2%)	-845 (-5.9%)	3,157 (30.4%)
	AN	-364 (-4.5%)	821 (11.9%)	1,117 (13.8%)	2,301 (33.4%)	-350 (-4.3%)	835 (12.1%)	1,679 (20.8%)	2,864 (41.6%)
	BN	585 (12.4%)	781 (17.3%)	1,841 (39.1%)	2,037 (45.2%)	837 (17.8%)	1,033 (22.9%)	1,607 (34.2%)	1,803 (40%)
	D	530 (14.5%)	415 (11%)	663 (18.2%)	548 (14.5%)	454 (12.4%)	338 (9%)	536 (14.7%)	421 (11.2%)
	C	-79 (-3.3%)	-11 (-0.5%)	-94 (-3.9%)	-26 (-1.1%)	-107 (-4.5%)	-39 (-1.7%)	-83 (-3.5%)	-14 (-0.6%)
	All	-1,025 (-13.3%)	435 (7%)	171 (2.2%)	1,632 (26.2%)	-989 (-12.9%)	471 (7.6%)	358 (4.7%)	1,818 (29.2%)
JUN	W	-1,200 (-11.7%)	1,823 (25.3%)	-3,154 (-30.9%)	-131 (-1.8%)	-815 (-8%)	2,208 (30.7%)	-3,323 (-32.5%)	-300 (-4.2%)
	AN	2,203 (34.5%)	2,997 (53.5%)	-377 (-5.9%)	416 (7.4%)	2,246 (35.1%)	3,040 (54.3%)	-271 (-4.2%)	523 (9.3%)
	BN	2,600 (57.8%)	2,753 (63.4%)	1,852 (41.2%)	2,005 (46.2%)	2,659 (59.1%)	2,812 (64.8%)	1,041 (23.2%)	1,195 (27.5%)
	D	106 (2.8%)	592 (17.6%)	249 (6.5%)	735 (21.8%)	20 (0.5%)	506 (15%)	-452 (-11.7%)	34 (1%)
	C	-359 (-12.9%)	-99 (-3.9%)	-413 (-14.8%)	-153 (-6.1%)	-278 (-10%)	-18 (-0.7%)	-432 (-15.5%)	-172 (-6.8%)
	All	357 (5.8%)	1,602 (32.4%)	-745 (-12%)	501 (10.1%)	488 (7.9%)	1,734 (35%)	-1,078 (-17.4%)	168 (3.4%)
JUL	W	-483 (-5.9%)	-1,041 (-11.9%)	-2,403 (-29.4%)	-2,960 (-33.9%)	-255 (-3.1%)	-812 (-9.3%)	-1,731 (-21.2%)	-2,288 (-26.2%)
	AN	-400 (-4.3%)	-300 (-3.3%)	-3,687 (-39.6%)	-3,588 (-38.9%)	-216 (-2.3%)	-116 (-1.3%)	-3,763 (-40.4%)	-3,663 (-39.7%)
	BN	-1,749 (-18.6%)	-1,094 (-12.5%)	-2,787 (-29.7%)	-2,132 (-24.4%)	-1,672 (-17.8%)	-1,016 (-11.6%)	-3,001 (-32%)	-2,345 (-26.9%)
	D	-3,189 (-38.5%)	-2,573 (-33.5%)	-3,319 (-40%)	-2,704 (-35.2%)	-3,632 (-43.8%)	-3,016 (-39.3%)	-4,059 (-49%)	-3,443 (-44.9%)
	C	-3,878 (-60.1%)	-2,319 (-47.4%)	-3,487 (-54.1%)	-1,928 (-39.4%)	-4,154 (-64.4%)	-2,595 (-53.1%)	-3,600 (-55.8%)	-2,040 (-41.7%)
	All	-1,778 (-21.4%)	-1,465 (-18.3%)	-3,016 (-36.2%)	-2,703 (-33.8%)	-1,803 (-21.7%)	-1,490 (-18.6%)	-3,029 (-36.4%)	-2,716 (-33.9%)
AUG	W	840 (17.1%)	-1,459 (-20.2%)	-875 (-17.8%)	-3,174 (-43.9%)	878 (17.8%)	-1,421 (-19.7%)	-808 (-16.4%)	-3,106 (-43%)
	AN	-451 (-6.4%)	-1,460 (-18%)	-1,812 (-25.6%)	-2,821 (-34.9%)	-428 (-6.1%)	-1,437 (-17.8%)	-2,341 (-33.1%)	-3,350 (-41.4%)
	BN	-794 (-11%)	-1,128 (-14.9%)	-2,003 (-27.7%)	-2,337 (-30.9%)	-996 (-13.8%)	-1,330 (-17.6%)	-2,611 (-36.1%)	-2,945 (-38.9%)
	D	-3,007 (-39%)	-783 (-14.3%)	-3,576 (-46.4%)	-1,352 (-24.6%)	-3,550 (-46%)	-1,326 (-24.2%)	-4,152 (-53.8%)	-1,928 (-35.1%)
	C	-626 (-22.1%)	-126 (-5.4%)	-104 (-3.7%)	396 (16.9%)	-534 (-18.8%)	-34 (-1.4%)	0 (0%)	501 (21.4%)
	All	-687 (-11.6%)	-1,059 (-16.8%)	-1,685 (-28.4%)	-2,057 (-32.6%)	-812 (-13.7%)	-1,184 (-18.8%)	-1,956 (-32.9%)	-2,328 (-36.9%)

Alternative 4: Upstream—Feather River at Confluence with Sacramento River									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
SEP	W	-1,139 (-26.2%)	-7,117 (-68.9%)	-1,220 (-28%)	-7,198 (-69.7%)	4,705 (108.1%)	-1,273 (-12.3%)	4,118 (94.6%)	-1,860 (-18%)
	AN	12 (0.3%)	-4,567 (-52.1%)	-730 (-17.4%)	-5,309 (-60.5%)	2,835 (67.6%)	-1,744 (-19.9%)	1,795 (42.8%)	-2,785 (-31.7%)
	BN	-833 (-19.6%)	-1,368 (-28.6%)	-1,282 (-30.2%)	-1,816 (-37.9%)	-751 (-17.7%)	-1,285 (-26.9%)	-1,282 (-30.1%)	-1,816 (-37.9%)
	D	-714 (-17.1%)	617 (21.7%)	-874 (-20.9%)	457 (16.1%)	-1,188 (-28.4%)	143 (5%)	-910 (-21.8%)	421 (14.8%)
	C	431 (21%)	521 (26.5%)	915 (44.5%)	1,005 (51.2%)	242 (11.8%)	332 (16.9%)	940 (45.8%)	1,031 (52.5%)
	All	-595 (-15.1%)	-2,947 (-46.9%)	-770 (-19.6%)	-3,122 (-49.6%)	1,553 (39.4%)	-798 (-12.7%)	1,287 (32.7%)	-1,064 (-16.9%)
OCT	W	-209 (-5%)	222 (5.9%)	-583 (-14%)	-153 (-4.1%)	-381 (-9.1%)	49 (1.3%)	-690 (-16.5%)	-259 (-6.9%)
	AN	912 (34.7%)	554 (18.6%)	352 (13.4%)	-6 (-0.2%)	779 (29.6%)	421 (14.1%)	532 (20.2%)	174 (5.8%)
	BN	-219 (-5.8%)	97 (2.8%)	-352 (-9.4%)	-36 (-1%)	-287 (-7.6%)	29 (0.9%)	-192 (-5.1%)	124 (3.6%)
	D	288 (9.5%)	334 (11.2%)	-60 (-2%)	-15 (-0.5%)	414 (13.7%)	460 (15.4%)	-404 (-13.3%)	-359 (-12%)
	C	419 (14.3%)	792 (30.9%)	554 (18.9%)	927 (36.1%)	184 (6.3%)	557 (21.7%)	700 (23.8%)	1,072 (41.8%)
	All	155 (4.5%)	357 (11%)	-126 (-3.6%)	77 (2.4%)	62 (1.8%)	265 (8.2%)	-160 (-4.6%)	43 (1.3%)
NOV	W	-575 (-12.3%)	296 (7.7%)	-720 (-15.3%)	152 (4%)	-947 (-20.2%)	-75 (-2%)	-849 (-18.1%)	23 (0.6%)
	AN	-116 (-3.8%)	-238 (-7.5%)	-251 (-8.2%)	-372 (-11.7%)	-83 (-2.7%)	-205 (-6.4%)	-108 (-3.5%)	-230 (-7.2%)
	BN	-263 (-9.8%)	-31 (-1.3%)	-379 (-14.1%)	-146 (-5.9%)	-223 (-8.3%)	10 (0.4%)	-240 (-8.9%)	-8 (-0.3%)
	D	-89 (-3.8%)	129 (6.1%)	-275 (-11.7%)	-57 (-2.7%)	-99 (-4.2%)	118 (5.6%)	-202 (-8.6%)	16 (0.8%)
	C	-47 (-2.2%)	-69 (-3.3%)	249 (12%)	226 (10.7%)	-40 (-1.9%)	-62 (-3%)	180 (8.6%)	157 (7.5%)
	All	-271 (-8.4%)	72 (2.5%)	-354 (-11%)	-11 (-0.4%)	-378 (-11.8%)	-35 (-1.2%)	-344 (-10.7%)	-1 (0%)
DEC	W	-819 (-6.6%)	1,344 (13.1%)	345 (2.8%)	2,509 (24.5%)	-1,654 (-13.3%)	509 (5%)	-889 (-7.2%)	1,274 (12.4%)
	AN	828 (15.9%)	21 (0.3%)	-715 (-13.8%)	-1,522 (-25.4%)	329 (6.3%)	-477 (-8%)	479 (9.2%)	-327 (-5.5%)
	BN	688 (22.4%)	519 (16%)	176 (5.7%)	7 (0.2%)	102 (3.3%)	-68 (-2.1%)	17 (0.6%)	-152 (-4.7%)
	D	-194 (-6.8%)	-167 (-6%)	-407 (-14.3%)	-380 (-13.5%)	-38 (-1.3%)	-11 (-0.4%)	-169 (-6%)	-143 (-5.1%)
	C	16 (0.5%)	936 (45.6%)	-407 (-13.7%)	514 (25%)	-2 (-0.1%)	918 (44.7%)	-643 (-21.6%)	277 (13.5%)
	All	-61 (-1%)	618 (11%)	-114 (-1.8%)	565 (10.1%)	-467 (-7.4%)	212 (3.8%)	-340 (-5.4%)	339 (6.1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.4.1.10 American River at Nimbus Dam**

2 **Table 19. Mean Monthly Flows (cfs) for Model Scenarios in the American River at Nimbus Dam,**
 3 **Year-Round**

Alternative 4: Upstream—American River at Nimbus Dam							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LLТ			
				H1	H2	H3	H4
JAN	W	8,806	11,036	11,143	11,115	11,040	11,005
	AN	4,833	5,805	5,969	6,096	5,753	5,729
	BN	2,392	2,073	2,098	2,210	2,026	2,137
	D	1,723	1,506	1,411	1,571	1,417	1,446
	C	1,474	1,095	1,156	1,175	1,258	1,153
	All	4,502	5,194	5,244	5,310	5,184	5,179
FEB	W	9,294	11,102	11,163	11,167	11,107	11,114
	AN	6,469	8,153	8,327	8,344	8,243	8,223
	BN	4,360	4,961	5,029	5,215	4,934	5,144
	D	1,852	1,844	1,888	1,961	1,972	1,850
	C	1,185	1,007	1,075	1,069	1,036	1,089
	All	5,218	6,112	6,189	6,239	6,155	6,171
MAR	W	6,089	6,992	6,982	6,989	6,987	6,984
	AN	5,454	5,790	5,920	5,914	5,811	5,752
	BN	2,429	2,794	2,834	2,841	2,842	2,802
	D	2,191	2,314	2,200	2,282	2,194	2,240
	C	939	938	867	856	872	865
	All	3,762	4,187	4,174	4,193	4,160	4,153
APR	W	5,300	5,508	5,510	5,504	5,517	5,522
	AN	3,546	3,298	3,321	3,295	3,301	3,303
	BN	3,126	2,970	2,995	2,986	2,952	2,976
	D	1,837	1,888	1,913	1,874	1,884	1,817
	C	1,156	1,255	1,278	1,250	1,270	1,251
	All	3,305	3,334	3,351	3,331	3,336	3,324
MAY	W	6,157	4,592	4,654	4,598	4,674	4,603
	AN	3,885	2,521	2,758	2,658	2,775	2,713
	BN	2,930	1,969	2,435	1,985	2,381	2,009
	D	1,790	1,686	1,957	1,822	2,029	1,863
	C	1,182	992	1,011	1,007	1,002	1,005
	All	3,587	2,676	2,873	2,733	2,886	2,756
JUN	W	6,003	3,694	4,472	3,905	4,373	3,912
	AN	3,346	3,022	3,605	2,791	3,597	2,877
	BN	2,863	2,883	4,040	2,941	3,517	3,042
	D	2,506	2,596	2,743	2,474	2,815	2,573
	C	1,824	1,025	1,563	1,355	1,226	1,508
	All	3,699	2,825	3,466	2,890	3,311	2,966
JUL	W	4,108	3,860	3,729	3,708	3,706	3,802
	AN	4,638	4,927	4,696	4,627	4,738	4,612
	BN	4,744	4,328	3,866	4,146	4,198	4,064
	D	3,577	3,143	2,812	2,998	2,771	2,767
	C	1,784	2,022	1,663	2,067	2,070	1,966
	All	3,838	3,670	3,390	3,521	3,496	3,470

Alternative 4: Upstream—American River at Nimbus Dam							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
AUG	W	3,520	2,132	2,122	2,238	2,118	2,236
	AN	2,542	1,944	1,971	2,058	1,971	2,070
	BN	2,495	2,324	1,793	2,131	1,757	2,310
	D	2,613	1,620	1,346	1,424	1,369	1,539
	C	1,500	1,100	860	997	855	1,021
	All	2,707	1,874	1,689	1,833	1,685	1,893
SEP	W	4,025	3,622	1,960	2,013	3,026	3,604
	AN	2,764	2,044	1,515	1,483	1,819	2,038
	BN	2,370	1,605	1,370	1,500	1,377	1,533
	D	1,856	1,182	1,170	1,236	1,228	1,315
	C	1,164	594	705	711	662	640
	All	2,663	2,068	1,437	1,487	1,827	2,085
OCT	W	1,723	1,634	1,557	1,659	1,649	1,448
	AN	1,706	1,732	1,589	1,650	1,430	1,484
	BN	1,602	1,767	2,062	1,943	2,297	1,769
	D	1,468	1,258	1,449	1,371	1,529	1,319
	C	1,461	1,655	1,531	1,502	991	1,576
	All	1,605	1,592	1,620	1,620	1,605	1,498
NOV	W	3,527	2,612	2,482	2,719	2,508	2,522
	AN	3,181	2,554	2,284	2,390	2,406	2,391
	BN	2,067	1,716	1,612	1,664	1,593	1,578
	D	2,176	1,424	1,341	1,455	1,494	1,552
	C	1,994	1,608	1,601	1,595	1,490	1,495
	All	2,706	2,043	1,925	2,049	1,965	1,979
DEC	W	6,302	6,171	6,452	6,710	6,090	6,313
	AN	3,137	2,933	2,947	3,011	2,927	3,045
	BN	2,676	2,527	2,806	2,794	2,591	2,606
	D	1,741	1,351	1,416	1,471	1,340	1,401
	C	1,524	1,251	1,318	1,368	1,315	1,320
	All	3,519	3,297	3,460	3,568	3,288	3,393

1 **Table 20. Differences^a (Percent Differences) between Pairs of Model Scenarios in the American River**
 2 **at Nimbus Dam, Year-Round**

Alternative 4: Upstream—American River at Nimbus Dam									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
JAN	W	2,336 (26.5%)	106 (1%)	2,309 (26.2%)	79 (0.7%)	2,233 (25.4%)	3 (0%)	2,199 (25%)	-31 (-0.3%)
	AN	1,137 (23.5%)	164 (2.8%)	1,263 (26.1%)	291 (5%)	921 (19.1%)	-51 (-0.9%)	896 (18.5%)	-76 (-1.3%)
	BN	-294 (-12.3%)	25 (1.2%)	-182 (-7.6%)	137 (6.6%)	-366 (-15.3%)	-47 (-2.2%)	-256 (-10.7%)	64 (3.1%)
	D	-312 (-18.1%)	-95 (-6.3%)	-152 (-8.8%)	65 (4.3%)	-306 (-17.7%)	-89 (-5.9%)	-277 (-16.1%)	-60 (-4%)
	C	-318 (-21.6%)	61 (5.6%)	-300 (-20.3%)	80 (7.3%)	-216 (-14.7%)	163 (14.9%)	-321 (-21.8%)	58 (5.3%)
	All	742 (16.5%)	50 (1%)	808 (18%)	117 (2.2%)	682 (15.1%)	-10 (-0.2%)	677 (15%)	-15 (-0.3%)
FEB	W	1,870 (20.1%)	61 (0.6%)	1,874 (20.2%)	65 (0.6%)	1,814 (19.5%)	5 (0%)	1,820 (19.6%)	12 (0.1%)
	AN	1,858 (28.7%)	174 (2.1%)	1,875 (29%)	192 (2.4%)	1,774 (27.4%)	90 (1.1%)	1,754 (27.1%)	71 (0.9%)
	BN	669 (15.3%)	68 (1.4%)	855 (19.6%)	254 (5.1%)	574 (13.2%)	-27 (-0.5%)	784 (18%)	182 (3.7%)
	D	36 (2%)	45 (2.4%)	109 (5.9%)	117 (6.4%)	120 (6.5%)	128 (7%)	-2 (-0.1%)	6 (0.3%)
	C	-110 (-9.3%)	69 (6.8%)	-116 (-9.8%)	63 (6.2%)	-149 (-12.6%)	30 (2.9%)	-96 (-8.1%)	83 (8.2%)
	All	971 (18.6%)	76 (1.2%)	1,022 (19.6%)	127 (2.1%)	937 (18%)	43 (0.7%)	953 (18.3%)	59 (1%)
MAR	W	893 (14.7%)	-10 (-0.1%)	900 (14.8%)	-3 (0%)	898 (14.8%)	-5 (-0.1%)	895 (14.7%)	-8 (-0.1%)
	AN	467 (8.6%)	130 (2.2%)	461 (8.5%)	124 (2.1%)	358 (6.6%)	21 (0.4%)	299 (5.5%)	-38 (-0.7%)
	BN	405 (16.7%)	40 (1.4%)	412 (16.9%)	47 (1.7%)	413 (17%)	48 (1.7%)	373 (15.3%)	8 (0.3%)
	D	8 (0.4%)	-115 (-5%)	91 (4.1%)	-32 (-1.4%)	2 (0.1%)	-121 (-5.2%)	49 (2.2%)	-74 (-3.2%)
	C	-72 (-7.7%)	-71 (-7.6%)	-83 (-8.8%)	-81 (-8.7%)	-68 (-7.2%)	-66 (-7.1%)	-74 (-7.9%)	-73 (-7.8%)
	All	412 (10.9%)	-13 (-0.3%)	431 (11.5%)	6 (0.1%)	398 (10.6%)	-27 (-0.6%)	391 (10.4%)	-34 (-0.8%)
APR	W	210 (4%)	1 (0%)	204 (3.8%)	-4 (-0.1%)	217 (4.1%)	9 (0.2%)	222 (4.2%)	13 (0.2%)
	AN	-225 (-6.3%)	22 (0.7%)	-251 (-7.1%)	-3 (-0.1%)	-245 (-6.9%)	2 (0.1%)	-243 (-6.8%)	5 (0.1%)
	BN	-130 (-4.2%)	26 (0.9%)	-140 (-4.5%)	16 (0.6%)	-174 (-5.6%)	-18 (-0.6%)	-150 (-4.8%)	7 (0.2%)
	D	76 (4.1%)	25 (1.3%)	36 (2%)	-15 (-0.8%)	46 (2.5%)	-4 (-0.2%)	-21 (-1.1%)	-72 (-3.8%)
	C	123 (10.6%)	23 (1.8%)	94 (8.1%)	-6 (-0.5%)	115 (9.9%)	15 (1.2%)	96 (8.3%)	-4 (-0.3%)
	All	46 (1.4%)	17 (0.5%)	26 (0.8%)	-3 (-0.1%)	30 (0.9%)	1 (0%)	19 (0.6%)	-10 (-0.3%)

Alternative 4: Upstream—American River at Nimbus Dam									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
MAY	W	-1,502 (-24.4%)	62 (1.4%)	-1,558 (-25.3%)	6 (0.1%)	-1,483 (-24.1%)	82 (1.8%)	-1,554 (-25.2%)	11 (0.2%)
	AN	-1,127 (-29%)	237 (9.4%)	-1,227 (-31.6%)	137 (5.4%)	-1,110 (-28.6%)	254 (10.1%)	-1,172 (-30.2%)	192 (7.6%)
	BN	-495 (-16.9%)	466 (23.7%)	-945 (-32.3%)	16 (0.8%)	-549 (-18.7%)	412 (20.9%)	-921 (-31.4%)	40 (2%)
	D	167 (9.3%)	271 (16.1%)	32 (1.8%)	136 (8.1%)	239 (13.4%)	343 (20.4%)	74 (4.1%)	178 (10.5%)
	C	-171 (-14.5%)	19 (1.9%)	-175 (-14.8%)	15 (1.5%)	-180 (-15.2%)	10 (1%)	-177 (-15%)	13 (1.3%)
	All	-714 (-19.9%)	196 (7.3%)	-854 (-23.8%)	57 (2.1%)	-700 (-19.5%)	210 (7.9%)	-831 (-23.2%)	79 (3%)
JUN	W	-1,531 (-25.5%)	779 (21.1%)	-2,099 (-35%)	211 (5.7%)	-1,630 (-27.1%)	680 (18.4%)	-2,091 (-34.8%)	219 (5.9%)
	AN	260 (7.8%)	583 (19.3%)	-554 (-16.6%)	-231 (-7.6%)	252 (7.5%)	575 (19%)	-469 (-14%)	-145 (-4.8%)
	BN	1,177 (41.1%)	1,158 (40.2%)	77 (2.7%)	58 (2%)	654 (22.8%)	635 (22%)	178 (6.2%)	159 (5.5%)
	D	237 (9.5%)	147 (5.7%)	-32 (-1.3%)	-122 (-4.7%)	310 (12.4%)	219 (8.4%)	67 (2.7%)	-23 (-0.9%)
	C	-261 (-14.3%)	538 (52.5%)	-469 (-25.7%)	330 (32.2%)	-598 (-32.8%)	201 (19.6%)	-316 (-17.3%)	484 (47.2%)
	All	-233 (-6.3%)	641 (22.7%)	-809 (-21.9%)	65 (2.3%)	-388 (-10.5%)	486 (17.2%)	-733 (-19.8%)	141 (5%)
JUL	W	-379 (-9.2%)	-131 (-3.4%)	-400 (-9.7%)	-152 (-3.9%)	-402 (-9.8%)	-154 (-4%)	-306 (-7.4%)	-58 (-1.5%)
	AN	58 (1.3%)	-231 (-4.7%)	-11 (-0.2%)	-300 (-6.1%)	100 (2.2%)	-189 (-3.8%)	-26 (-0.6%)	-315 (-6.4%)
	BN	-879 (-18.5%)	-462 (-10.7%)	-599 (-12.6%)	-183 (-4.2%)	-547 (-11.5%)	-131 (-3%)	-680 (-14.3%)	-264 (-6.1%)
	D	-765 (-21.4%)	-331 (-10.5%)	-579 (-16.2%)	-145 (-4.6%)	-807 (-22.5%)	-373 (-11.9%)	-810 (-22.6%)	-376 (-12%)
	C	-121 (-6.8%)	-359 (-17.8%)	283 (15.8%)	45 (2.2%)	285 (16%)	48 (2.4%)	182 (10.2%)	-56 (-2.8%)
	All	-447 (-11.7%)	-280 (-7.6%)	-316 (-8.2%)	-149 (-4%)	-341 (-8.9%)	-174 (-4.7%)	-368 (-9.6%)	-200 (-5.5%)
AUG	W	-1,398 (-39.7%)	-10 (-0.5%)	-1,283 (-36.4%)	106 (5%)	-1,402 (-39.8%)	-14 (-0.7%)	-1,284 (-36.5%)	104 (4.9%)
	AN	-571 (-22.4%)	27 (1.4%)	-484 (-19%)	114 (5.9%)	-571 (-22.5%)	26 (1.4%)	-472 (-18.6%)	125 (6.4%)
	BN	-702 (-28.1%)	-531 (-22.9%)	-364 (-14.6%)	-193 (-8.3%)	-738 (-29.6%)	-568 (-24.4%)	-185 (-7.4%)	-15 (-0.6%)
	D	-1,267 (-48.5%)	-274 (-16.9%)	-1,188 (-45.5%)	-195 (-12.1%)	-1,244 (-47.6%)	-251 (-15.5%)	-1,074 (-41.1%)	-81 (-5%)
	C	-640 (-42.7%)	-240 (-21.8%)	-503 (-33.5%)	-103 (-9.4%)	-645 (-43%)	-245 (-22.3%)	-479 (-31.9%)	-79 (-7.2%)
	All	-1,018 (-37.6%)	-185 (-9.9%)	-874 (-32.3%)	-41 (-2.2%)	-1,022 (-37.7%)	-189 (-10.1%)	-814 (-30.1%)	20 (1%)

Alternative 4: Upstream—American River at Nimbus Dam									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
SEP	W	-2,065 (-51.3%)	-1,663 (-45.9%)	-2,012 (-50%)	-1,610 (-44.4%)	-998 (-24.8%)	-596 (-16.5%)	-421 (-10.5%)	-19 (-0.5%)
	AN	-1,249 (-45.2%)	-529 (-25.9%)	-1,281 (-46.4%)	-561 (-27.5%)	-945 (-34.2%)	-225 (-11%)	-726 (-26.3%)	-6 (-0.3%)
	BN	-1,001 (-42.2%)	-235 (-14.7%)	-871 (-36.7%)	-105 (-6.5%)	-994 (-41.9%)	-228 (-14.2%)	-838 (-35.3%)	-72 (-4.5%)
	D	-686 (-37%)	-12 (-1%)	-620 (-33.4%)	55 (4.6%)	-629 (-33.9%)	46 (3.9%)	-542 (-29.2%)	133 (11.2%)
	C	-459 (-39.4%)	112 (18.8%)	-453 (-38.9%)	118 (19.8%)	-503 (-43.2%)	68 (11.5%)	-524 (-45%)	47 (7.8%)
	All	-1,226 (-46%)	-631 (-30.5%)	-1,176 (-44.2%)	-581 (-28.1%)	-836 (-31.4%)	-241 (-11.6%)	-578 (-21.7%)	17 (0.8%)
OCT	W	-166 (-9.6%)	-77 (-4.7%)	-63 (-3.7%)	25 (1.5%)	-232 (-13.5%)	-143 (-8.8%)	-275 (-15.9%)	-186 (-11.4%)
	AN	-116 (-6.8%)	-142 (-8.2%)	-56 (-3.3%)	-82 (-4.7%)	-42 (-2.5%)	-68 (-4%)	-222 (-13%)	-248 (-14.3%)
	BN	460 (28.7%)	296 (16.7%)	341 (21.3%)	176 (10%)	399 (24.9%)	235 (13.3%)	167 (10.4%)	2 (0.1%)
	D	-19 (-1.3%)	191 (15.2%)	-97 (-6.6%)	113 (9%)	-38 (-2.6%)	172 (13.6%)	-149 (-10.2%)	60 (4.8%)
	C	70 (4.8%)	-124 (-7.5%)	41 (2.8%)	-153 (-9.2%)	189 (13%)	-5 (-0.3%)	115 (7.9%)	-79 (-4.8%)
	All	15 (0.9%)	29 (1.8%)	15 (0.9%)	29 (1.8%)	8 (0.5%)	22 (1.4%)	-107 (-6.7%)	-93 (-5.9%)
NOV	W	-1,045 (-29.6%)	-130 (-5%)	-808 (-22.9%)	107 (4.1%)	-1,019 (-28.9%)	-104 (-4%)	-1,004 (-28.5%)	-90 (-3.4%)
	AN	-897 (-28.2%)	-270 (-10.6%)	-791 (-24.9%)	-164 (-6.4%)	-774 (-24.3%)	-148 (-5.8%)	-790 (-24.8%)	-163 (-6.4%)
	BN	-455 (-22%)	-104 (-6.1%)	-403 (-19.5%)	-52 (-3%)	-475 (-23%)	-124 (-7.2%)	-489 (-23.7%)	-138 (-8.1%)
	D	-835 (-38.4%)	-83 (-5.8%)	-721 (-33.1%)	31 (2.2%)	-682 (-31.3%)	70 (4.9%)	-625 (-28.7%)	127 (8.9%)
	C	-393 (-19.7%)	-6 (-0.4%)	-399 (-20%)	-13 (-0.8%)	-504 (-25.3%)	-118 (-7.3%)	-499 (-25%)	-113 (-7%)
	All	-781 (-28.9%)	-118 (-5.8%)	-657 (-24.3%)	6 (0.3%)	-741 (-27.4%)	-77 (-3.8%)	-728 (-26.9%)	-64 (-3.2%)
DEC	W	151 (2.4%)	281 (4.6%)	409 (6.5%)	539 (8.7%)	-211 (-3.4%)	-81 (-1.3%)	12 (0.2%)	142 (2.3%)
	AN	-190 (-6%)	14 (0.5%)	-126 (-4%)	78 (2.7%)	-209 (-6.7%)	-5 (-0.2%)	-92 (-2.9%)	112 (3.8%)
	BN	130 (4.9%)	279 (11.1%)	118 (4.4%)	267 (10.6%)	-85 (-3.2%)	64 (2.5%)	-69 (-2.6%)	80 (3.2%)
	D	-325 (-18.7%)	65 (4.8%)	-270 (-15.5%)	119 (8.8%)	-401 (-23%)	-11 (-0.8%)	-339 (-19.5%)	50 (3.7%)
	C	-206 (-13.5%)	67 (5.3%)	-156 (-10.3%)	116 (9.3%)	-209 (-13.7%)	64 (5.1%)	-204 (-13.4%)	68 (5.5%)
	All	-59 (-1.7%)	163 (4.9%)	49 (1.4%)	271 (8.2%)	-231 (-6.6%)	-8 (-0.3%)	-126 (-3.6%)	96 (2.9%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.4.1.11 American River at Confluence with Sacramento River**

2 **Table 21. Mean Monthly Flows (cfs) for Model Scenarios in the American River at the Confluence with**
 3 **the Sacramento River, Year-Round**

Alternative 4: Upstream—American River at Confluence with Sacramento River							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
JAN	W	8,748	10,960	11,064	11,034	10,964	10,930
	AN	4,806	5,760	5,925	6,056	5,709	5,683
	BN	2,326	1,988	2,011	2,123	1,941	2,051
	D	1,654	1,424	1,331	1,495	1,336	1,363
	C	1,403	1,008	1,068	1,086	1,176	1,065
	All	4,443	5,118	5,167	5,234	5,109	5,103
FEB	W	9,183	10,947	11,007	11,012	10,952	10,962
	AN	6,422	8,073	8,244	8,260	8,163	8,144
	BN	4,309	4,888	4,956	5,140	4,862	5,069
	D	1,781	1,756	1,802	1,872	1,886	1,763
	C	1,119	921	989	983	956	1,003
	All	5,142	6,007	6,083	6,133	6,051	6,067
MAR	W	5,979	6,837	6,826	6,833	6,831	6,829
	AN	5,364	5,661	5,789	5,783	5,681	5,622
	BN	2,340	2,672	2,711	2,717	2,721	2,679
	D	2,121	2,224	2,109	2,190	2,102	2,150
	C	864	836	764	754	782	762
	All	3,672	4,063	4,049	4,068	4,038	4,029
APR	W	5,156	5,300	5,301	5,295	5,309	5,313
	AN	3,383	3,079	3,100	3,074	3,081	3,084
	BN	2,984	2,778	2,803	2,793	2,760	2,784
	D	1,672	1,677	1,703	1,662	1,673	1,606
	C	996	1,059	1,075	1,046	1,075	1,047
	All	3,152	3,128	3,144	3,124	3,130	3,117
MAY	W	5,959	4,332	4,395	4,339	4,414	4,343
	AN	3,700	2,285	2,522	2,422	2,540	2,478
	BN	2,733	1,726	2,192	1,742	2,138	1,766
	D	1,605	1,454	1,725	1,590	1,797	1,632
	C	1,014	790	807	804	800	802
	All	3,398	2,438	2,633	2,494	2,648	2,517
JUN	W	5,743	3,388	4,166	3,599	4,068	3,607
	AN	3,103	2,736	3,316	2,503	3,309	2,589
	BN	2,631	2,603	3,756	2,661	3,234	2,762
	D	2,282	2,320	2,464	2,196	2,536	2,295
	C	1,621	793	1,322	1,114	994	1,270
	All	3,462	2,545	3,182	2,607	3,028	2,684
JUL	W	3,844	3,560	3,422	3,407	3,400	3,500
	AN	4,399	4,635	4,400	4,338	4,441	4,321
	BN	4,509	4,038	3,566	3,855	3,902	3,773
	D	3,347	2,858	2,526	2,714	2,484	2,483
	C	1,568	1,784	1,419	1,823	1,829	1,720
	All	3,597	3,385	3,100	3,236	3,207	3,183

Alternative 4: Upstream—American River at Confluence with Sacramento River							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
AUG	W	3,295	1,858	1,849	1,965	1,845	1,963
	AN	2,313	1,663	1,692	1,780	1,691	1,791
	BN	2,265	2,048	1,521	1,857	1,482	2,036
	D	2,395	1,357	1,086	1,163	1,112	1,279
	C	1,314	899	661	794	649	818
	All	2,488	1,612	1,429	1,572	1,425	1,632
SEP	W	3,846	3,415	1,753	1,804	2,819	3,395
	AN	2,594	1,838	1,309	1,276	1,613	1,831
	BN	2,205	1,402	1,172	1,298	1,179	1,330
	D	1,691	987	978	1,043	1,035	1,121
	C	1,011	427	539	543	494	471
	All	2,495	1,870	1,241	1,289	1,631	1,887
OCT	W	1,607	1,499	1,429	1,531	1,357	1,312
	AN	1,597	1,613	1,468	1,528	1,539	1,356
	BN	1,472	1,617	1,927	1,799	1,862	1,618
	D	1,344	1,114	1,310	1,231	1,289	1,176
	C	1,342	1,517	1,395	1,366	1,521	1,438
	All	1,486	1,454	1,488	1,486	1,479	1,359
NOV	W	3,472	2,540	2,410	2,646	2,437	2,452
	AN	3,100	2,455	2,186	2,291	2,308	2,294
	BN	1,990	1,618	1,511	1,564	1,492	1,480
	D	2,094	1,326	1,241	1,356	1,395	1,453
	C	1,897	1,489	1,484	1,477	1,371	1,377
	All	2,632	1,950	1,832	1,955	1,872	1,886
DEC	W	6,255	6,115	6,397	6,658	6,035	6,261
	AN	3,072	2,856	2,873	2,935	2,852	2,969
	BN	2,609	2,445	2,726	2,713	2,511	2,526
	D	1,675	1,275	1,341	1,394	1,264	1,324
	C	1,443	1,158	1,224	1,272	1,222	1,227
	All	3,457	3,224	3,388	3,496	3,216	3,321

1 **Table 22. Differences^a (Percent Differences) between Pairs of Model Scenarios in the American River**
 2 **at the Confluence with the Sacramento River, Year-Round**

Alternative 4: Upstream—American River at Confluence with Sacramento River									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
JAN	W	2,316 (26.5%)	104 (0.9%)	2,286 (26.1%)	74 (0.7%)	2,217 (25.3%)	4 (0%)	2,183 (25%)	-30 (-0.3%)
	AN	1,119 (23.3%)	164 (2.8%)	1,251 (26%)	296 (5.1%)	903 (18.8%)	-52 (-0.9%)	877 (18.3%)	-77 (-1.3%)
	BN	-315 (-13.6%)	23 (1.1%)	-203 (-8.7%)	135 (6.8%)	-385 (-16.6%)	-47 (-2.4%)	-275 (-11.8%)	63 (3.2%)
	D	-323 (-19.6%)	-93 (-6.6%)	-159 (-9.6%)	71 (5%)	-318 (-19.2%)	-88 (-6.2%)	-291 (-17.6%)	-61 (-4.3%)
	C	-335 (-23.9%)	60 (6%)	-317 (-22.6%)	78 (7.8%)	-227 (-16.2%)	168 (16.7%)	-338 (-24.1%)	57 (5.7%)
	All	724 (16.3%)	49 (1%)	792 (17.8%)	117 (2.3%)	666 (15%)	-9 (-0.2%)	660 (14.9%)	-15 (-0.3%)
FEB	W	1,825 (19.9%)	60 (0.6%)	1,829 (19.9%)	65 (0.6%)	1,769 (19.3%)	5 (0%)	1,780 (19.4%)	15 (0.1%)
	AN	1,821 (28.4%)	171 (2.1%)	1,837 (28.6%)	187 (2.3%)	1,740 (27.1%)	90 (1.1%)	1,721 (26.8%)	71 (0.9%)
	BN	647 (15%)	67 (1.4%)	831 (19.3%)	252 (5.1%)	553 (12.8%)	-27 (-0.5%)	761 (17.7%)	181 (3.7%)
	D	21 (1.2%)	46 (2.6%)	92 (5.2%)	117 (6.6%)	105 (5.9%)	130 (7.4%)	-18 (-1%)	7 (0.4%)
	C	-130 (-11.6%)	68 (7.4%)	-136 (-12.2%)	61 (6.7%)	-163 (-14.5%)	35 (3.8%)	-116 (-10.3%)	82 (8.9%)
	All	941 (18.3%)	76 (1.3%)	991 (19.3%)	125 (2.1%)	909 (17.7%)	44 (0.7%)	925 (18%)	60 (1%)
MAR	W	847 (14.2%)	-11 (-0.2%)	853 (14.3%)	-4 (-0.1%)	852 (14.2%)	-5 (-0.1%)	849 (14.2%)	-8 (-0.1%)
	AN	424 (7.9%)	128 (2.3%)	418 (7.8%)	122 (2.1%)	316 (5.9%)	20 (0.3%)	258 (4.8%)	-39 (-0.7%)
	BN	372 (15.9%)	39 (1.5%)	377 (16.1%)	44 (1.7%)	381 (16.3%)	48 (1.8%)	339 (14.5%)	6 (0.2%)
	D	-12 (-0.6%)	-115 (-5.2%)	70 (3.3%)	-34 (-1.5%)	-18 (-0.9%)	-122 (-5.5%)	29 (1.4%)	-74 (-3.3%)
	C	-101 (-11.6%)	-72 (-8.7%)	-111 (-12.8%)	-83 (-9.9%)	-82 (-9.5%)	-54 (-6.5%)	-103 (-11.9%)	-74 (-8.9%)
	All	377 (10.3%)	-14 (-0.3%)	395 (10.8%)	5 (0.1%)	365 (9.9%)	-25 (-0.6%)	356 (9.7%)	-34 (-0.8%)
APR	W	145 (2.8%)	1 (0%)	139 (2.7%)	-4 (-0.1%)	153 (3%)	9 (0.2%)	157 (3.1%)	13 (0.3%)
	AN	-283 (-8.4%)	21 (0.7%)	-309 (-9.1%)	-5 (-0.2%)	-301 (-8.9%)	2 (0.1%)	-299 (-8.8%)	5 (0.2%)
	BN	-180 (-6%)	25 (0.9%)	-190 (-6.4%)	15 (0.6%)	-224 (-7.5%)	-18 (-0.7%)	-199 (-6.7%)	6 (0.2%)
	D	31 (1.8%)	26 (1.6%)	-10 (-0.6%)	-14 (-0.9%)	1 (0.1%)	-3 (-0.2%)	-66 (-4%)	-71 (-4.2%)
	C	79 (7.9%)	15 (1.4%)	50 (5%)	-14 (-1.3%)	79 (8%)	15 (1.5%)	52 (5.2%)	-12 (-1.2%)
	All	-8 (-0.2%)	16 (0.5%)	-28 (-0.9%)	-5 (-0.2%)	-22 (-0.7%)	2 (0.1%)	-35 (-1.1%)	-11 (-0.4%)

Alternative 4: Upstream—American River at Confluence with Sacramento River									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
MAY	W	-1,564 (-26.2%)	62 (1.4%)	-1,620 (-27.2%)	6 (0.1%)	-1,545 (-25.9%)	82 (1.9%)	-1,615 (-27.1%)	11 (0.2%)
	AN	-1,178 (-31.8%)	236 (10.3%)	-1,277 (-34.5%)	137 (6%)	-1,160 (-31.4%)	254 (11.1%)	-1,222 (-33%)	192 (8.4%)
	BN	-542 (-19.8%)	466 (27%)	-991 (-36.3%)	16 (0.9%)	-595 (-21.8%)	412 (23.9%)	-967 (-35.4%)	40 (2.3%)
	D	120 (7.5%)	271 (18.6%)	-14 (-0.9%)	136 (9.4%)	193 (12%)	343 (23.6%)	28 (1.7%)	178 (12.3%)
	C	-206 (-20.4%)	17 (2.2%)	-210 (-20.7%)	14 (1.8%)	-214 (-21.1%)	9 (1.2%)	-212 (-20.9%)	12 (1.5%)
	All	-765 (-22.5%)	196 (8%)	-904 (-26.6%)	57 (2.3%)	-750 (-22.1%)	210 (8.6%)	-881 (-25.9%)	79 (3.3%)
JUN	W	-1,576 (-27.4%)	778 (23%)	-2,143 (-37.3%)	211 (6.2%)	-1,675 (-29.2%)	679 (20%)	-2,135 (-37.2%)	219 (6.5%)
	AN	213 (6.9%)	581 (21.2%)	-600 (-19.3%)	-232 (-8.5%)	205 (6.6%)	573 (20.9%)	-515 (-16.6%)	-147 (-5.4%)
	BN	1,125 (42.8%)	1,153 (44.3%)	30 (1.1%)	58 (2.2%)	603 (22.9%)	631 (24.2%)	131 (5%)	159 (6.1%)
	D	183 (8%)	144 (6.2%)	-85 (-3.7%)	-124 (-5.3%)	254 (11.1%)	216 (9.3%)	14 (0.6%)	-25 (-1.1%)
	C	-300 (-18.5%)	529 (66.7%)	-507 (-31.3%)	321 (40.5%)	-627 (-38.7%)	201 (25.4%)	-352 (-21.7%)	477 (60.1%)
	All	-280 (-8.1%)	638 (25.1%)	-855 (-24.7%)	63 (2.5%)	-434 (-12.5%)	484 (19%)	-779 (-22.5%)	139 (5.5%)
JUL	W	-422 (-11%)	-138 (-3.9%)	-438 (-11.4%)	-154 (-4.3%)	-444 (-11.5%)	-160 (-4.5%)	-344 (-8.9%)	-60 (-1.7%)
	AN	1 (0%)	-236 (-5.1%)	-61 (-1.4%)	-298 (-6.4%)	43 (1%)	-194 (-4.2%)	-77 (-1.8%)	-314 (-6.8%)
	BN	-944 (-20.9%)	-473 (-11.7%)	-654 (-14.5%)	-183 (-4.5%)	-607 (-13.5%)	-136 (-3.4%)	-736 (-16.3%)	-266 (-6.6%)
	D	-821 (-24.5%)	-332 (-11.6%)	-633 (-18.9%)	-144 (-5%)	-863 (-25.8%)	-375 (-13.1%)	-864 (-25.8%)	-376 (-13.1%)
	C	-149 (-9.5%)	-365 (-20.5%)	255 (16.2%)	39 (2.2%)	261 (16.7%)	46 (2.6%)	152 (9.7%)	-64 (-3.6%)
	All	-497 (-13.8%)	-285 (-8.4%)	-361 (-10%)	-150 (-4.4%)	-389 (-10.8%)	-178 (-5.3%)	-413 (-11.5%)	-202 (-6%)
AUG	W	-1,445 (-43.9%)	-9 (-0.5%)	-1,330 (-40.4%)	107 (5.8%)	-1,449 (-44%)	-13 (-0.7%)	-1,332 (-40.4%)	105 (5.6%)
	AN	-621 (-26.8%)	29 (1.7%)	-534 (-23.1%)	116 (7%)	-622 (-26.9%)	28 (1.7%)	-522 (-22.6%)	128 (7.7%)
	BN	-744 (-32.8%)	-527 (-25.7%)	-408 (-18%)	-191 (-9.3%)	-783 (-34.6%)	-566 (-27.7%)	-229 (-10.1%)	-12 (-0.6%)
	D	-1,308 (-54.6%)	-270 (-19.9%)	-1,232 (-51.4%)	-194 (-14.3%)	-1,283 (-53.6%)	-245 (-18%)	-1,115 (-46.6%)	-77 (-5.7%)
	C	-652 (-49.7%)	-238 (-26.5%)	-520 (-39.6%)	-105 (-11.7%)	-664 (-50.6%)	-250 (-27.8%)	-496 (-37.8%)	-82 (-9.1%)
	All	-1,059 (-42.6%)	-183 (-11.3%)	-916 (-36.8%)	-40 (-2.5%)	-1,063 (-42.7%)	-187 (-11.6%)	-855 (-34.4%)	21 (1.3%)

Alternative 4: Upstream—American River at Confluence with Sacramento River									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
SEP	W	-2,093 (-54.4%)	-1,662 (-48.7%)	-2,041 (-53.1%)	-1,611 (-47.2%)	-1,027 (-26.7%)	-596 (-17.5%)	-450 (-11.7%)	-20 (-0.6%)
	AN	-1,285 (-49.5%)	-529 (-28.8%)	-1,318 (-50.8%)	-562 (-30.6%)	-981 (-37.8%)	-225 (-12.2%)	-763 (-29.4%)	-7 (-0.4%)
	BN	-1,034 (-46.9%)	-230 (-16.4%)	-907 (-41.1%)	-104 (-7.4%)	-1,027 (-46.5%)	-223 (-15.9%)	-876 (-39.7%)	-72 (-5.2%)
	D	-713 (-42.2%)	-9 (-0.9%)	-647 (-38.3%)	56 (5.7%)	-656 (-38.8%)	48 (4.9%)	-570 (-33.7%)	134 (13.5%)
	C	-472 (-46.7%)	112 (26.2%)	-468 (-46.3%)	116 (27.1%)	-517 (-51.1%)	67 (15.7%)	-539 (-53.4%)	44 (10.4%)
	All	-1,254 (-50.3%)	-630 (-33.7%)	-1,206 (-48.3%)	-581 (-31.1%)	-864 (-34.6%)	-240 (-12.8%)	-608 (-24.4%)	16 (0.9%)
OCT	W	-179 (-11.1%)	-70 (-4.7%)	-77 (-4.8%)	32 (2.2%)	-250 (-15.6%)	-142 (-9.4%)	-295 (-18.4%)	-186 (-12.4%)
	AN	-129 (-8.1%)	-145 (-9%)	-69 (-4.3%)	-84 (-5.2%)	-58 (-3.6%)	-74 (-4.6%)	-241 (-15.1%)	-256 (-15.9%)
	BN	455 (30.9%)	310 (19.2%)	327 (22.2%)	182 (11.3%)	390 (26.5%)	245 (15.1%)	146 (9.9%)	1 (0.1%)
	D	-34 (-2.5%)	196 (17.6%)	-112 (-8.4%)	117 (10.5%)	-55 (-4.1%)	175 (15.7%)	-167 (-12.4%)	62 (5.6%)
	C	53 (3.9%)	-122 (-8.1%)	24 (1.8%)	-151 (-10%)	179 (13.3%)	4 (0.2%)	96 (7.1%)	-79 (-5.2%)
	All	2 (0.2%)	35 (2.4%)	0 (0%)	33 (2.2%)	-7 (-0.5%)	25 (1.7%)	-127 (-8.5%)	-94 (-6.5%)
NOV	W	-1,062 (-30.6%)	-130 (-5.1%)	-826 (-23.8%)	107 (4.2%)	-1,035 (-29.8%)	-102 (-4%)	-1,020 (-29.4%)	-88 (-3.5%)
	AN	-913 (-29.5%)	-269 (-10.9%)	-809 (-26.1%)	-164 (-6.7%)	-792 (-25.5%)	-147 (-6%)	-805 (-26%)	-161 (-6.5%)
	BN	-479 (-24.1%)	-107 (-6.6%)	-425 (-21.4%)	-54 (-3.3%)	-498 (-25%)	-126 (-7.8%)	-510 (-25.6%)	-138 (-8.6%)
	D	-853 (-40.7%)	-85 (-6.4%)	-739 (-35.3%)	30 (2.3%)	-700 (-33.4%)	68 (5.2%)	-642 (-30.6%)	127 (9.6%)
	C	-413 (-21.8%)	-6 (-0.4%)	-420 (-22.1%)	-12 (-0.8%)	-526 (-27.7%)	-118 (-7.9%)	-520 (-27.4%)	-112 (-7.5%)
	All	-800 (-30.4%)	-118 (-6.1%)	-676 (-25.7%)	6 (0.3%)	-760 (-28.9%)	-78 (-4%)	-745 (-28.3%)	-63 (-3.3%)
DEC	W	142 (2.3%)	282 (4.6%)	403 (6.5%)	544 (8.9%)	-220 (-3.5%)	-80 (-1.3%)	6 (0.1%)	146 (2.4%)
	AN	-199 (-6.5%)	17 (0.6%)	-136 (-4.4%)	79 (2.8%)	-220 (-7.1%)	-4 (-0.1%)	-102 (-3.3%)	113 (4%)
	BN	117 (4.5%)	281 (11.5%)	104 (4%)	268 (11%)	-99 (-3.8%)	65 (2.7%)	-83 (-3.2%)	81 (3.3%)
	D	-334 (-20%)	66 (5.1%)	-281 (-16.8%)	119 (9.3%)	-411 (-24.6%)	-11 (-0.9%)	-351 (-20.9%)	49 (3.8%)
	C	-219 (-15.1%)	67 (5.8%)	-171 (-11.8%)	115 (9.9%)	-221 (-15.3%)	64 (5.6%)	-216 (-15%)	69 (6%)
	All	-69 (-2%)	164 (5.1%)	39 (1.1%)	273 (8.5%)	-241 (-7%)	-8 (-0.2%)	-136 (-3.9%)	97 (3%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.4.1.12 Stanislaus River at the Confluence with the San Joaquin River**

2 **Table 23. Mean Monthly Flows (cfs) for Model Scenarios in the Stanislaus River at the Confluence with**
 3 **the San Joaquin River, Year-Round**

Alternative 4: Upstream—Stanislaus River at Confluence with the San Joaquin River							
Month	WYT ^a	EXISTING CONDITIONS	NAA	A4_LL ^T			
				H1	H2	H3	H4
JAN	W	956	885	885	885	885	885
	AN	843	963	963	963	963	963
	BN	416	369	369	369	369	369
	D	403	366	366	366	366	366
	C	314	265	265	265	265	265
	All	635	615	615	615	615	615
FEB	W	1,285	1,236	1,226	1,240	1,227	1,243
	AN	917	858	858	858	858	858
	BN	551	438	438	438	437	438
	D	562	359	359	359	359	359
	C	490	348	348	348	348	348
	All	827	723	721	725	721	725
MAR	W	2,063	2,217	2,217	2,216	2,217	2,217
	AN	1,295	956	956	956	956	956
	BN	732	548	548	548	548	548
	D	559	390	390	390	390	390
	C	541	444	444	443	444	443
	All	1,167	1,071	1,071	1,070	1,071	1,070
APR	W	2,054	1,965	1,965	1,965	1,965	1,965
	AN	1,719	1,535	1,535	1,534	1,535	1,534
	BN	1,494	1,211	1,210	1,210	1,211	1,211
	D	1,438	1,199	1,198	1,198	1,199	1,198
	C	823	670	670	669	669	668
	All	1,562	1,387	1,387	1,387	1,387	1,387
MAY	W	1,653	1,613	1,614	1,614	1,614	1,614
	AN	1,389	1,243	1,243	1,243	1,243	1,243
	BN	1,238	898	898	898	898	898
	D	1,140	916	916	915	916	915
	C	715	627	627	626	626	625
	All	1,271	1,125	1,125	1,124	1,125	1,124
JUN	W	1,608	1,763	1,761	1,765	1,761	1,765
	AN	1,134	985	984	983	984	984
	BN	663	568	566	566	567	567
	D	447	364	365	364	364	364
	C	332	296	292	289	292	289
	All	932	914	912	912	912	913
JUL	W	1,064	1,080	1,080	1,080	1,080	1,080
	AN	489	454	454	454	454	454
	BN	450	425	425	425	425	425
	D	398	359	360	359	360	358
	C	337	310	313	309	311	307
	All	607	590	590	589	590	589

Alternative 4: Upstream—Stanislaus River at Confluence with the San Joaquin River							
Month	WYT^a	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
AUG	W	930	717	717	717	717	717
	AN	476	454	454	454	454	454
	BN	423	418	418	418	418	418
	D	387	382	382	382	382	382
	C	341	338	338	334	339	334
	All	560	491	492	491	492	491
SEP	W	1,040	863	863	863	863	863
	AN	503	474	474	474	474	474
	BN	417	407	407	407	407	407
	D	395	390	390	390	390	390
	C	324	317	331	333	330	329
	All	594	533	536	536	536	536
OCT	W	897	845	846	846	846	846
	AN	873	822	825	825	825	825
	BN	903	844	844	844	844	844
	D	984	925	925	925	925	925
	C	689	612	612	612	614	612
	All	867	808	808	808	809	808
NOV	W	426	408	408	408	408	408
	AN	580	524	524	524	524	524
	BN	341	334	334	334	334	334
	D	345	321	321	321	321	321
	C	325	308	308	308	308	308
	All	410	386	386	386	386	386
DEC	W	513	429	441	418	441	418
	AN	722	697	697	697	697	697
	BN	331	353	353	353	353	353
	D	317	294	294	294	294	294
	C	289	272	272	272	272	272
	All	450	417	421	414	421	414

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 24. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Stanislaus River**
 2 **at the Confluence with the San Joaquin River, Year-Round**

Alternative 4: Upstream—Stanislaus River at Confluence with the San Joaquin River									
Month	WYT ^b	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
JAN	W	-71 (-7.4%)	0 (0%)	-71 (-7.4%)	0 (0%)	-71 (-7.4%)	0 (0%)	-71 (-7.4%)	0 (0%)
	AN	120 (14.3%)	0 (0%)	120 (14.3%)	0 (0%)	120 (14.3%)	0 (0%)	120 (14.3%)	0 (0%)
	BN	-47 (-11.3%)	0 (0%)	-47 (-11.3%)	0 (0%)	-47 (-11.3%)	0 (0%)	-47 (-11.3%)	0 (0%)
	D	-37 (-9.1%)	0 (0%)	-37 (-9.1%)	0 (0%)	-37 (-9.1%)	0 (0%)	-37 (-9.1%)	0 (0%)
	C	-49 (-15.5%)	0 (0%)	-49 (-15.5%)	0 (0%)	-49 (-15.6%)	0 (0%)	-49 (-15.5%)	0 (0%)
	All	-20 (-3.2%)	0 (0%)	-20 (-3.2%)	0 (0%)	-20 (-3.2%)	0 (0%)	-20 (-3.2%)	0 (0%)
FEB	W	-58 (-4.5%)	-9 (-0.8%)	-44 (-3.4%)	5 (0.4%)	-58 (-4.5%)	-9 (-0.7%)	-42 (-3.2%)	7 (0.6%)
	AN	-59 (-6.4%)	0 (0%)	-59 (-6.4%)	0 (0%)	-59 (-6.4%)	0 (0%)	-59 (-6.4%)	0 (0%)
	BN	-113 (-20.5%)	0 (0%)	-113 (-20.5%)	0 (0%)	-114 (-20.7%)	-1 (-0.2%)	-113 (-20.5%)	0 (0%)
	D	-203 (-36.1%)	0 (0%)	-203 (-36.1%)	0 (0%)	-203 (-36.1%)	0 (0%)	-203 (-36.1%)	0 (0%)
	C	-142 (-29%)	0 (0%)	-142 (-29%)	0 (0%)	-142 (-29%)	0 (0%)	-142 (-29%)	0 (0%)
	All	-106 (-12.9%)	-3 (-0.4%)	-102 (-12.4%)	1 (0.2%)	-106 (-12.9%)	-3 (-0.4%)	-102 (-12.3%)	2 (0.3%)
MAR	W	154 (7.4%)	0 (0%)	153 (7.4%)	0 (0%)	154 (7.5%)	0 (0%)	154 (7.4%)	0 (0%)
	AN	-339 (-26.2%)	0 (0%)	-339 (-26.2%)	0 (0%)	-339 (-26.2%)	0 (0%)	-339 (-26.2%)	0 (0%)
	BN	-185 (-25.2%)	0 (-0.1%)	-185 (-25.2%)	0 (0%)	-185 (-25.2%)	0 (0%)	-185 (-25.2%)	0 (0%)
	D	-168 (-30.1%)	0 (0%)	-169 (-30.2%)	0 (-0.1%)	-168 (-30.1%)	0 (0%)	-169 (-30.2%)	0 (-0.1%)
	C	-97 (-17.9%)	0 (0%)	-98 (-18%)	-1 (-0.1%)	-97 (-17.9%)	0 (0%)	-98 (-18.1%)	-1 (-0.2%)
	All	-96 (-8.2%)	0 (0%)	-96 (-8.2%)	0 (0%)	-96 (-8.2%)	0 (0%)	-96 (-8.2%)	0 (0%)
APR	W	-89 (-4.3%)	0 (0%)	-89 (-4.3%)	0 (0%)	-88 (-4.3%)	0 (0%)	-89 (-4.3%)	0 (0%)
	AN	-184 (-10.7%)	0 (0%)	-185 (-10.8%)	0 (0%)	-184 (-10.7%)	0 (0%)	-185 (-10.7%)	0 (0%)
	BN	-283 (-19%)	0 (0%)	-283 (-19%)	0 (0%)	-283 (-18.9%)	0 (0%)	-283 (-18.9%)	0 (0%)
	D	-240 (-16.7%)	0 (0%)	-241 (-16.7%)	-1 (-0.1%)	-240 (-16.7%)	0 (0%)	-240 (-16.7%)	-1 (-0.1%)
	C	-153 (-18.6%)	0 (0%)	-154 (-18.7%)	-1 (-0.1%)	-153 (-18.6%)	0 (0%)	-155 (-18.8%)	-1 (-0.2%)
	All	-175 (-11.2%)	0 (0%)	-175 (-11.2%)	0 (0%)	-175 (-11.2%)	0 (0%)	-175 (-11.2%)	0 (0%)

Alternative 4: Upstream—Stanislaus River at Confluence with the San Joaquin River									
Month	WYT ^b	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
MAY	W	-39 (-2.4%)	0 (0%)	-40 (-2.4%)	0 (0%)	-39 (-2.4%)	1 (0%)	-39 (-2.4%)	0 (0%)
	AN	-146 (-10.5%)	0 (0%)	-146 (-10.5%)	0 (0%)	-146 (-10.5%)	0 (0%)	-146 (-10.5%)	0 (0%)
	BN	-340 (-27.5%)	-1 (- 0.1%)	-340 (-27.5%)	-1 (-0.1%)	-340 (-27.5%)	0 (0%)	-340 (-27.4%)	0 (0%)
	D	-224 (-19.7%)	0 (0%)	-225 (-19.7%)	0 (0%)	-225 (-19.7%)	0 (0%)	-225 (-19.8%)	-1 (-0.1%)
	C	-88 (-12.3%)	0 (-0.1%)	-89 (-12.4%)	-1 (-0.1%)	-89 (-12.5%)	-1 (-0.2%)	-89 (-12.5%)	-2 (-0.3%)
	All	-147 (-11.5%)	0 (0%)	-147 (-11.6%)	0 (0%)	-147 (-11.6%)	0 (0%)	-147 (-11.6%)	0 (0%)
JUN	W	153 (9.5%)	-2 (-0.1%)	158 (9.8%)	2 (0.1%)	154 (9.6%)	-2 (-0.1%)	157 (9.8%)	2 (0.1%)
	AN	-150 (-13.2%)	-1 (-0.1%)	-150 (-13.2%)	-1 (-0.1%)	-150 (-13.2%)	-1 (-0.1%)	-150 (-13.2%)	-1 (-0.1%)
	BN	-97 (-14.6%)	-2 (-0.3%)	-96 (-14.5%)	-1 (-0.3%)	-96 (-14.4%)	-1 (-0.1%)	-96 (-14.4%)	-1 (-0.1%)
	D	-82 (-18.4%)	0 (0%)	-82 (-18.4%)	0 (0%)	-82 (-18.4%)	0 (0%)	-82 (-18.4%)	0 (0%)
	C	-40 (-12%)	-4 (-1.2%)	-43 (-13%)	-7 (-2.3%)	-40 (-11.9%)	-3 (-1.1%)	-43 (-13%)	-7 (-2.4%)
	All	-20 (-2.2%)	-2 (-0.2%)	-20 (-2.1%)	-1 (-0.1%)	-20 (-2.2%)	-1 (-0.2%)	-20 (-2.1%)	-1 (-0.1%)
JUL	W	16 (1.5%)	0 (0%)	16 (1.5%)	0 (0%)	16 (1.5%)	0 (0%)	16 (1.5%)	0 (0%)
	AN	-35 (-7.2%)	0 (0%)	-35 (-7.2%)	0 (0%)	-35 (-7.2%)	0 (0%)	-35 (-7.2%)	0 (0%)
	BN	-25 (-5.5%)	0 (0.1%)	-25 (-5.5%)	0 (0.1%)	-25 (-5.5%)	0 (0%)	-25 (-5.5%)	0 (0%)
	D	-37 (-9.4%)	1 (0.3%)	-39 (-9.8%)	0 (-0.1%)	-38 (-9.6%)	0 (0.1%)	-40 (-10%)	-1 (-0.3%)
	C	-24 (-7.1%)	2 (0.8%)	-28 (-8.3%)	-2 (-0.5%)	-25 (-7.5%)	1 (0.3%)	-29 (-8.7%)	-3 (-0.9%)
	All	-17 (-2.7%)	1 (0.1%)	-18 (-2.9%)	0 (-0.1%)	-17 (-2.8%)	0 (0%)	-18 (-3%)	-1 (-0.1%)
AUG	W	-212 (-22.8%)	0 (0%)	-212 (-22.8%)	0 (0%)	-212 (-22.8%)	0 (0%)	-212 (-22.8%)	0 (0%)
	AN	-22 (-4.6%)	0 (0%)	-22 (-4.6%)	0 (0%)	-22 (-4.6%)	0 (0%)	-22 (-4.6%)	0 (0%)
	BN	-4 (-1%)	0 (0%)	-4 (-1%)	0 (0%)	-4 (-1%)	0 (0%)	-4 (-1%)	0 (0%)
	D	-5 (-1.2%)	0 (0%)	-5 (-1.2%)	0 (0%)	-5 (-1.2%)	0 (0%)	-5 (-1.2%)	0 (0%)
	C	-3 (-0.9%)	0 (0.1%)	-7 (-2%)	-4 (-1%)	-2 (-0.7%)	1 (0.3%)	-7 (-2.1%)	-4 (-1.1%)
	All	-68 (-12.2%)	0 (0%)	-69 (-12.4%)	-1 (-0.1%)	-68 (-12.2%)	0 (0%)	-69 (-12.4%)	-1 (-0.1%)

Alternative 4: Upstream—Stanislaus River at Confluence with the San Joaquin River									
Month	WYT ^b	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
SEP	W	-177 (-17%)	0 (0%)	-177 (-17%)	0 (0%)	-177 (-17%)	0 (0%)	-177 (-17%)	0 (0%)
	AN	-28 (-5.6%)	0 (0%)	-28 (-5.6%)	0 (0%)	-28 (-5.6%)	0 (0%)	-28 (-5.6%)	0 (0%)
	BN	-10 (-2.4%)	0 (0%)	-10 (-2.4%)	0 (0%)	-10 (-2.4%)	0 (0%)	-10 (-2.4%)	0 (0%)
	D	-5 (-1.3%)	0 (0%)	-5 (-1.3%)	0 (0%)	-5 (-1.3%)	0 (0%)	-5 (-1.3%)	0 (0%)
	C	7 (2%)	14 (4.4%)	9 (2.7%)	16 (5.1%)	5 (1.7%)	13 (4.1%)	4 (1.3%)	12 (3.7%)
	All	-58 (-9.8%)	3 (0.5%)	-58 (-9.8%)	3 (0.6%)	-59 (-9.9%)	3 (0.5%)	-59 (-9.9%)	2 (0.4%)
OCT	W	-52 (-5.8%)	0 (0.1%)	-52 (-5.8%)	0 (0%)	-52 (-5.8%)	0 (0.1%)	-52 (-5.8%)	0 (0%)
	AN	-49 (-5.6%)	2 (0.3%)	-49 (-5.6%)	2 (0.3%)	-49 (-5.6%)	2 (0.3%)	-49 (-5.6%)	2 (0.3%)
	BN	-59 (-6.5%)	0 (0%)	-59 (-6.5%)	0 (0%)	-59 (-6.5%)	0 (0%)	-59 (-6.5%)	0 (0%)
	D	-59 (-6%)	0 (0%)	-59 (-6%)	0 (0%)	-59 (-6%)	0 (0%)	-59 (-6%)	0 (0%)
	C	-77 (-11.2%)	0 (0%)	-77 (-11.2%)	0 (0%)	-75 (-10.9%)	1 (0.2%)	-77 (-11.2%)	0 (0%)
	All	-58 (-6.7%)	1 (0.1%)	-58 (-6.7%)	0 (0.1%)	-58 (-6.7%)	1 (0.1%)	-58 (-6.7%)	0 (0.1%)
NOV	W	-18 (-4.3%)	0 (0%)	-18 (-4.3%)	0 (0%)	-18 (-4.3%)	0 (0%)	-18 (-4.3%)	0 (0%)
	AN	-56 (-9.7%)	0 (0%)	-56 (-9.7%)	0 (0%)	-56 (-9.7%)	0 (0%)	-56 (-9.7%)	0 (0%)
	BN	-8 (-2.3%)	0 (0%)	-8 (-2.3%)	0 (0%)	-8 (-2.3%)	0 (0%)	-8 (-2.3%)	0 (0%)
	D	-23 (-6.7%)	0 (0%)	-23 (-6.7%)	0 (0%)	-23 (-6.7%)	0 (0%)	-23 (-6.7%)	0 (0%)
	C	-16 (-5.1%)	0 (0%)	-17 (-5.1%)	0 (0%)	-17 (-5.1%)	0 (0%)	-16 (-5.1%)	0 (0%)
	All	-24 (-6%)	0 (0%)	-24 (-6%)	0 (0%)	-24 (-6%)	0 (0%)	-24 (-6%)	0 (0%)
DEC	W	-72 (-14%)	12 (2.8%)	-95 (-18.4%)	-11 (-2.6%)	-72 (-14%)	12 (2.8%)	-94 (-18.4%)	-11 (-2.6%)
	AN	-25 (-3.5%)	0 (0%)	-25 (-3.5%)	0 (0%)	-25 (-3.5%)	0 (0%)	-25 (-3.5%)	0 (0%)
	BN	23 (6.8%)	0 (0%)	23 (6.8%)	0 (0%)	23 (6.8%)	0 (0%)	23 (6.8%)	0 (0%)
	D	-23 (-7.3%)	0 (0%)	-23 (-7.3%)	0 (0%)	-23 (-7.3%)	0 (0%)	-23 (-7.3%)	0 (0%)
	C	-16 (-5.7%)	0 (0%)	-16 (-5.7%)	0 (0%)	-16 (-5.7%)	0 (0%)	-16 (-5.7%)	0 (0%)
	All	-29 (-6.5%)	3 (0.8%)	-36 (-8%)	-3 (-0.8%)	-29 (-6.5%)	3 (0.8%)	-36 (-8%)	-3 (-0.8%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.4.2 In Delta**

2 **11C.4.2.1 OMR Flow (Old and Middle Rivers)**

3 **Table 25. Mean Monthly Flows (cfs) for Model Scenarios in the Old and Middle Rivers, Year-Round**

Alternative 4: In Delta—OMR Flow (Old and Middle Rivers)							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
JAN	W	-1,820	-1,606	1,767	1,667	1,693	1,725
	AN	-3,553	-3,446	-1,351	-1,640	-1,202	-1,692
	BN	-4,240	-3,803	-2,681	-2,660	-2,676	-2,663
	D	-4,664	-4,675	-2,976	-2,844	-2,769	-2,789
	C	-4,130	-3,684	-2,862	-2,793	-2,686	-2,571
	All	-3,449	-3,228	-1,167	-1,199	-1,097	-1,144
FEB	W	-2,365	-2,293	3,398	3,604	3,000	3,336
	AN	-3,274	-3,147	-610	-352	-621	-566
	BN	-3,437	-3,290	-2,187	-2,150	-2,149	-2,120
	D	-3,986	-3,502	-2,876	-2,822	-2,909	-2,815
	C	-3,191	-3,047	-2,821	-2,738	-2,902	-2,766
	All	-3,158	-2,964	-430	-296	-570	-410
MAR	W	-1,600	-1,454	4,965	5,723	4,583	5,063
	AN	-4,251	-3,815	592	1,057	580	1,049
	BN	-4,147	-3,834	-2,496	-561	-2,638	-449
	D	-2,852	-2,614	-2,449	-1,391	-2,352	-1,417
	C	-2,010	-1,636	-1,718	-1,442	-1,627	-1,470
	All	-2,758	-2,487	446	1,357	333	1,156
APR	W	2,431	2,415	2,299	2,733	2,284	2,633
	AN	1,058	787	-38	796	-26	822
	BN	677	214	-537	217	-687	280
	D	-268	-615	-1,170	-407	-1,168	-392
	C	-950	-845	-1,157	-926	-1,135	-906
	All	843	659	205	795	181	784
MAY	W	1,651	1,555	2,194	2,422	2,208	2,409
	AN	509	396	-108	420	-200	407
	BN	272	-237	-742	-217	-681	-212
	D	-647	-1,010	-1,263	-1,017	-1,196	-910
	C	-1,019	-911	-976	-819	-983	-827
	All	353	155	133	449	148	467
JUN	W	-4,164	-4,369	-1,281	65	-1,392	-175
	AN	-4,761	-4,454	-2,602	-1,337	-2,602	-1,254
	BN	-4,154	-3,420	-2,291	-1,784	-2,352	-1,977
	D	-3,301	-2,592	-2,154	-1,914	-2,175	-1,686
	C	-2,250	-2,143	-1,881	-1,595	-1,914	-1,612
	All	-3,780	-3,504	-1,926	-1,133	-1,981	-1,182

Alternative 4: In Delta—OMR Flow (Old and Middle Rivers)							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
JUL	W	-8,959	-8,699	-7,132	-5,474	-7,313	-5,689
	AN	-9,919	-7,962	-8,020	-4,820	-8,080	-4,950
	BN	-10,853	-9,942	-7,396	-6,990	-7,767	-6,867
	D	-10,891	-9,505	-6,108	-6,452	-5,370	-5,342
	C	-8,058	-5,234	-2,333	-2,743	-2,511	-2,718
	All	-9,715	-8,473	-6,380	-5,452	-6,373	-5,271
AUG	W	-10,062	-10,518	-4,981	-4,974	-5,487	-5,117
	AN	-10,348	-10,985	-6,519	-6,433	-6,488	-5,709
	BN	-10,044	-9,374	-6,023	-6,685	-6,365	-6,814
	D	-10,122	-7,259	-4,755	-5,560	-4,552	-5,783
	C	-4,384	-3,192	-3,182	-3,325	-3,047	-3,561
	All	-9,283	-8,604	-5,071	-5,367	-5,221	-5,412
SEP	W	-9,317	-7,580	-4,142	-4,113	843	904
	AN	-9,163	-9,002	-5,216	-5,139	-533	-257
	BN	-8,575	-8,392	-4,304	-4,984	-4,686	-4,786
	D	-8,081	-5,165	-4,235	-4,479	-4,062	-4,620
	C	-4,807	-3,966	-2,529	-2,332	-2,163	-2,377
	All	-8,236	-6,868	-4,111	-4,231	-1,819	-1,930
OCT	W	-8,347	-5,049	-2,125	-1,984	-1,077	-1,020
	AN	-7,643	-3,648	-2,165	-2,150	-1,374	-1,360
	BN	-7,804	-4,793	-1,991	-1,943	-1,055	-1,039
	D	-6,961	-4,103	-2,165	-2,265	-1,630	-1,696
	C	-6,440	-3,920	-2,096	-2,181	-1,726	-1,920
	All	-7,568	-4,427	-2,112	-2,092	-1,333	-1,353
NOV	W	-8,902	-6,527	-3,778	-3,829	-1,323	-1,513
	AN	-7,264	-6,003	-4,201	-3,999	-1,928	-1,888
	BN	-7,997	-5,542	-4,621	-4,264	-2,148	-1,904
	D	-7,136	-5,007	-4,176	-4,010	-2,393	-2,141
	C	-5,293	-4,389	-3,656	-3,878	-2,864	-2,743
	All	-7,592	-5,636	-4,054	-3,975	-2,013	-1,953
DEC	W	-5,542	-5,591	-2,946	-3,107	-3,285	-3,433
	AN	-6,987	-7,050	-5,139	-4,927	-5,370	-5,265
	BN	-7,304	-7,040	-6,025	-5,501	-6,011	-5,921
	D	-7,214	-7,006	-5,556	-5,202	-5,547	-5,140
	C	-6,166	-4,173	-4,600	-4,150	-4,734	-4,488
	All	-6,513	-6,155	-4,607	-4,394	-4,764	-4,655

1 **Table 26. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Old and Middle**
 2 **Rivers, Year-Round**

Alternative 4: In Delta—OMR Flow (Old and Middle Rivers)									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
JAN	W	3,587 (197.1%)	3,373 (210%)	3,487 (191.6%)	3,273 (203.8%)	3,512 (193%)	3,298 (205.4%)	3,544 (194.8%)	3,330 (207.4%)
	AN	2,202 (62%)	2,095 (60.8%)	1,912 (53.8%)	1,806 (52.4%)	2,351 (66.2%)	2,244 (65.1%)	1,861 (52.4%)	1,755 (50.9%)
	BN	1,559 (36.8%)	1,121 (29.5%)	1,580 (37.3%)	1,143 (30%)	1,563 (36.9%)	1,126 (29.6%)	1,577 (37.2%)	1,140 (30%)
	D	1,687 (36.2%)	1,699 (36.3%)	1,820 (39%)	1,832 (39.2%)	1,894 (40.6%)	1,906 (40.8%)	1,874 (40.2%)	1,886 (40.3%)
	C	1,268 (30.7%)	823 (22.3%)	1,337 (32.4%)	891 (24.2%)	1,444 (35%)	998 (27.1%)	1,559 (37.8%)	1,114 (30.2%)
	All	2,282 (66.2%)	2,061 (63.8%)	2,250 (65.2%)	2,030 (62.9%)	2,352 (68.2%)	2,131 (66%)	2,305 (66.8%)	2,084 (64.6%)
FEB	W	5,763 (243.7%)	5,691 (248.2%)	5,969 (252.4%)	5,897 (257.2%)	5,366 (226.9%)	5,293 (230.9%)	5,701 (241.1%)	5,629 (245.5%)
	AN	2,664 (81.4%)	2,536 (80.6%)	2,923 (89.3%)	2,795 (88.8%)	2,654 (81%)	2,526 (80.3%)	2,708 (82.7%)	2,580 (82%)
	BN	1,250 (36.4%)	1,103 (33.5%)	1,287 (37.4%)	1,140 (34.7%)	1,288 (37.5%)	1,142 (34.7%)	1,317 (38.3%)	1,170 (35.6%)
	D	1,109 (27.8%)	626 (17.9%)	1,164 (29.2%)	680 (19.4%)	1,076 (27%)	592 (16.9%)	1,171 (29.4%)	687 (19.6%)
	C	370 (11.6%)	227 (7.4%)	453 (14.2%)	309 (10.1%)	289 (9.1%)	145 (4.8%)	425 (13.3%)	281 (9.2%)
	All	2,728 (86.4%)	2,534 (85.5%)	2,862 (90.6%)	2,668 (90%)	2,588 (82%)	2,394 (80.8%)	2,748 (87%)	2,554 (86.2%)
MAR	W	6,565 (410.3%)	6,418 (441.5%)	7,324 (457.7%)	7,177 (493.7%)	6,183 (386.4%)	6,036 (415.3%)	6,664 (416.4%)	6,517 (448.3%)
	AN	4,843 (113.9%)	4,406 (115.5%)	5,308 (124.9%)	4,872 (127.7%)	4,831 (113.6%)	4,394 (115.2%)	5,300 (124.7%)	4,864 (127.5%)
	BN	1,651 (39.8%)	1,338 (34.9%)	3,586 (86.5%)	3,273 (85.4%)	1,509 (36.4%)	1,197 (31.2%)	3,698 (89.2%)	3,386 (88.3%)
	D	404 (14.2%)	165 (6.3%)	1,461 (51.2%)	1,222 (46.8%)	500 (17.5%)	262 (10%)	1,435 (50.3%)	1,197 (45.8%)
	C	292 (14.5%)	-82 (-5%)	568 (28.3%)	194 (11.9%)	383 (19.1%)	9 (0.6%)	540 (26.9%)	166 (10.2%)
	All	3,204 (116.2%)	2,933 (117.9%)	4,115 (149.2%)	3,844 (154.6%)	3,091 (112.1%)	2,820 (113.4%)	3,914 (141.9%)	3,643 (146.5%)
APR	W	-132 (-5.4%)	-116 (-4.8%)	301 (12.4%)	318 (13.2%)	-147 (-6.1%)	-131 (-5.4%)	202 (8.3%)	218 (9%)
	AN	-1,096 (-103.6%)	-826 (-104.9%)	-262 (-24.8%)	9 (1.1%)	-1,084 (-102.5%)	-813 (-103.3%)	-236 (-22.3%)	35 (4.5%)
	BN	-1,214 (-179.3%)	-751 (-350.9%)	-460 (-67.9%)	3 (1.5%)	-1,364 (-201.5%)	-901 (-421.2%)	-396 (-58.6%)	67 (31.1%)
	D	-902 (-336.8%)	-555 (-90.2%)	-139 (-51.8%)	209 (33.9%)	-900 (-335.9%)	-553 (-89.8%)	-124 (-46.4%)	223 (36.2%)
	C	-207 (-21.8%)	-312 (-36.9%)	25 (2.6%)	-80 (-9.5%)	-185 (-19.4%)	-290 (-34.3%)	44 (4.6%)	-61 (-7.2%)
	All	-638 (-75.6%)	-453 (-68.8%)	-48 (-5.7%)	137 (20.7%)	-663 (-78.6%)	-478 (-72.6%)	-59 (-7%)	126 (19.1%)

Alternative 4: In Delta—OMR Flow (Old and Middle Rivers)									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
MAY	W	544 (32.9%)	639 (41.1%)	771 (46.7%)	866 (55.7%)	557 (33.7%)	652 (41.9%)	758 (45.9%)	854 (54.9%)
	AN	-618 (-121.3%)	-504 (-127.4%)	-90 (-17.6%)	24 (6%)	-710 (-139.3%)	-596 (-150.6%)	-102 (-20.1%)	11 (2.9%)
	BN	-1,013 (-372.8%)	-504 (-212.3%)	-489 (-180%)	20 (8.4%)	-953 (-350.5%)	-443 (-186.7%)	-484 (-177.9%)	26 (10.8%)
	D	-616 (-95.2%)	-253 (-25%)	-370 (-57.2%)	-7 (-0.7%)	-549 (-84.9%)	-186 (-18.4%)	-263 (-40.7%)	100 (9.9%)
	C	44 (4.3%)	-64 (-7.1%)	200 (19.6%)	92 (10.1%)	36 (3.5%)	-72 (-7.9%)	192 (18.8%)	84 (9.2%)
	All	-220 (-62.3%)	-22 (-14.2%)	96 (27.1%)	294 (188.9%)	-205 (-58.1%)	-8 (-4.8%)	113 (32.1%)	311 (200.1%)
JUN	W	2,883 (69.2%)	3,088 (70.7%)	4,228 (101.5%)	4,434 (101.5%)	2,772 (66.6%)	2,978 (68.2%)	3,989 (95.8%)	4,194 (96%)
	AN	2,159 (45.3%)	1,851 (41.6%)	3,424 (71.9%)	3,117 (70%)	2,159 (45.3%)	1,851 (41.6%)	3,507 (73.7%)	3,200 (71.8%)
	BN	1,863 (44.8%)	1,129 (33%)	2,370 (57%)	1,636 (47.8%)	1,802 (43.4%)	1,068 (31.2%)	2,178 (52.4%)	1,443 (42.2%)
	D	1,146 (34.7%)	438 (16.9%)	1,386 (42%)	678 (26.1%)	1,126 (34.1%)	417 (16.1%)	1,615 (48.9%)	906 (35%)
	C	369 (16.4%)	262 (12.2%)	655 (29.1%)	548 (25.6%)	336 (14.9%)	228 (10.7%)	638 (28.4%)	531 (24.8%)
	All	1,854 (49%)	1,577 (45%)	2,647 (70%)	2,370 (67.7%)	1,799 (47.6%)	1,522 (43.5%)	2,598 (68.7%)	2,321 (66.2%)
JUL	W	1,827 (20.4%)	1,567 (18%)	3,485 (38.9%)	3,225 (37.1%)	1,646 (18.4%)	1,386 (15.9%)	3,269 (36.5%)	3,010 (34.6%)
	AN	1,899 (19.1%)	-57 (-0.7%)	5,099 (51.4%)	3,142 (39.5%)	1,839 (18.5%)	-117 (-1.5%)	4,969 (50.1%)	3,012 (37.8%)
	BN	3,456 (31.8%)	2,546 (25.6%)	3,863 (35.6%)	2,952 (29.7%)	3,086 (28.4%)	2,175 (21.9%)	3,985 (36.7%)	3,075 (30.9%)
	D	4,783 (43.9%)	3,397 (35.7%)	4,439 (40.8%)	3,053 (32.1%)	5,521 (50.7%)	4,135 (43.5%)	5,549 (51%)	4,164 (43.8%)
	C	5,725 (71%)	2,901 (55.4%)	5,315 (66%)	2,491 (47.6%)	5,547 (68.8%)	2,723 (52%)	5,340 (66.3%)	2,516 (48.1%)
	All	3,335 (34.3%)	2,093 (24.7%)	4,263 (43.9%)	3,021 (35.7%)	3,342 (34.4%)	2,100 (24.8%)	4,444 (45.7%)	3,202 (37.8%)
AUG	W	5,081 (50.5%)	5,537 (52.6%)	5,088 (50.6%)	5,544 (52.7%)	4,575 (45.5%)	5,031 (47.8%)	4,945 (49.1%)	5,401 (51.3%)
	AN	3,829 (37%)	4,465 (40.7%)	3,915 (37.8%)	4,551 (41.4%)	3,861 (37.3%)	4,497 (40.9%)	4,640 (44.8%)	5,276 (48%)
	BN	4,021 (40%)	3,351 (35.7%)	3,359 (33.4%)	2,689 (28.7%)	3,680 (36.6%)	3,009 (32.1%)	3,230 (32.2%)	2,560 (27.3%)
	D	5,368 (53%)	2,505 (34.5%)	4,562 (45.1%)	1,699 (23.4%)	5,571 (55%)	2,708 (37.3%)	4,339 (42.9%)	1,476 (20.3%)
	C	1,202 (27.4%)	10 (0.3%)	1,059 (24.2%)	-133 (-4.2%)	1,338 (30.5%)	145 (4.5%)	823 (18.8%)	-369 (-11.6%)
	All	4,212 (45.4%)	3,533 (41.1%)	3,916 (42.2%)	3,236 (37.6%)	4,062 (43.8%)	3,383 (39.3%)	3,871 (41.7%)	3,192 (37.1%)

Alternative 4: In Delta—OMR Flow (Old and Middle Rivers)									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
SEP	W	5,175 (55.5%)	3,439 (45.4%)	5,204 (55.9%)	3,468 (45.7%)	10,160 (109.1%)	8,424 (111.1%)	10,221 (109.7%)	8,485 (111.9%)
	AN	3,947 (43.1%)	3,786 (42.1%)	4,024 (43.9%)	3,863 (42.9%)	8,630 (94.2%)	8,469 (94.1%)	8,906 (97.2%)	8,745 (97.1%)
	BN	4,272 (49.8%)	4,088 (48.7%)	3,592 (41.9%)	3,408 (40.6%)	3,889 (45.3%)	3,706 (44.2%)	3,789 (44.2%)	3,606 (43%)
	D	3,846 (47.6%)	930 (18%)	3,602 (44.6%)	686 (13.3%)	4,019 (49.7%)	1,103 (21.3%)	3,461 (42.8%)	545 (10.5%)
	C	2,278 (47.4%)	1,437 (36.2%)	2,475 (51.5%)	1,634 (41.2%)	2,643 (55%)	1,803 (45.5%)	2,430 (50.6%)	1,589 (40.1%)
	All	4,125 (50.1%)	2,757 (40.1%)	4,005 (48.6%)	2,636 (38.4%)	6,417 (77.9%)	5,049 (73.5%)	6,306 (76.6%)	4,938 (71.9%)
OCT	W	6,222 (74.5%)	2,924 (57.9%)	6,362 (76.2%)	3,064 (60.7%)	7,270 (87.1%)	3,972 (78.7%)	7,327 (87.8%)	4,029 (79.8%)
	AN	5,478 (71.7%)	1,483 (40.7%)	5,493 (71.9%)	1,499 (41.1%)	6,268 (82%)	2,274 (62.3%)	6,283 (82.2%)	2,288 (62.7%)
	BN	5,813 (74.5%)	2,802 (58.5%)	5,861 (75.1%)	2,850 (59.5%)	6,749 (86.5%)	3,738 (78%)	6,765 (86.7%)	3,753 (78.3%)
	D	4,796 (68.9%)	1,939 (47.2%)	4,695 (67.5%)	1,838 (44.8%)	5,330 (76.6%)	2,473 (60.3%)	5,264 (75.6%)	2,407 (58.7%)
	C	4,344 (67.5%)	1,824 (46.5%)	4,260 (66.1%)	1,740 (44.4%)	4,715 (73.2%)	2,195 (56%)	4,520 (70.2%)	2,000 (51%)
	All	5,455 (72.1%)	2,315 (52.3%)	5,476 (72.4%)	2,336 (52.8%)	6,235 (82.4%)	3,094 (69.9%)	6,215 (82.1%)	3,074 (69.4%)
NOV	W	5,124 (57.6%)	2,749 (42.1%)	5,073 (57%)	2,698 (41.3%)	7,579 (85.1%)	5,204 (79.7%)	7,389 (83%)	5,014 (76.8%)
	AN	3,063 (42.2%)	1,802 (30%)	3,265 (44.9%)	2,004 (33.4%)	5,336 (73.5%)	4,075 (67.9%)	5,376 (74%)	4,115 (68.5%)
	BN	3,376 (42.2%)	921 (16.6%)	3,732 (46.7%)	1,278 (23.1%)	5,849 (73.1%)	3,394 (61.2%)	6,092 (76.2%)	3,638 (65.6%)
	D	2,960 (41.5%)	830 (16.6%)	3,126 (43.8%)	997 (19.9%)	4,743 (66.5%)	2,613 (52.2%)	4,995 (70%)	2,865 (57.2%)
	C	1,637 (30.9%)	733 (16.7%)	1,415 (26.7%)	511 (11.6%)	2,429 (45.9%)	1,525 (34.8%)	2,551 (48.2%)	1,647 (37.5%)
	All	3,539 (46.6%)	1,582 (28.1%)	3,617 (47.6%)	1,661 (29.5%)	5,579 (73.5%)	3,623 (64.3%)	5,640 (74.3%)	3,683 (65.4%)
DEC	W	2,596 (46.8%)	2,645 (47.3%)	2,435 (43.9%)	2,485 (44.4%)	2,257 (40.7%)	2,307 (41.3%)	2,108 (38%)	2,158 (38.6%)
	AN	1,849 (26.5%)	1,911 (27.1%)	2,061 (29.5%)	2,124 (30.1%)	1,617 (23.1%)	1,680 (23.8%)	1,722 (24.6%)	1,785 (25.3%)
	BN	1,279 (17.5%)	1,016 (14.4%)	1,803 (24.7%)	1,540 (21.9%)	1,293 (17.7%)	1,029 (14.6%)	1,383 (18.9%)	1,119 (15.9%)
	D	1,658 (23%)	1,450 (20.7%)	2,012 (27.9%)	1,803 (25.7%)	1,667 (23.1%)	1,459 (20.8%)	2,074 (28.8%)	1,866 (26.6%)
	C	1,567 (25.4%)	-426 (-10.2%)	2,016 (32.7%)	23 (0.6%)	1,432 (23.2%)	-561 (-13.4%)	1,678 (27.2%)	-315 (-7.5%)
	All	1,905 (29.3%)	1,548 (25.1%)	2,118 (32.5%)	1,761 (28.6%)	1,749 (26.8%)	1,391 (22.6%)	1,857 (28.5%)	1,500 (24.4%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.4.2.2 Sacramento River Downstream of North Delta Diversion Facility**

2 **Table 27. Mean Monthly Flows (cfs) for Model Scenarios for the Sacramento River Downstream of the**
 3 **North Delta Diversion Facility, Year-Round**

Alternative 4: In Delta—Sacramento River Downstream of North Delta Diversion Facility							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
JAN	W	50,961	52,878	44,637	44,482	43,883	43,431
	AN	39,863	40,484	34,572	34,999	33,047	32,999
	BN	23,781	22,653	18,739	19,332	18,431	18,786
	D	17,444	17,451	15,344	15,937	14,939	14,662
	C	14,281	15,073	14,139	14,176	13,966	12,682
	All	31,971	32,595	27,849	28,099	27,220	26,882
FEB	W	57,314	59,847	50,234	50,033	49,932	49,815
	AN	45,676	47,786	40,095	40,123	39,397	39,450
	BN	31,934	31,592	25,892	26,821	25,437	26,096
	D	21,202	21,107	17,651	17,589	17,751	17,765
	C	14,708	14,291	12,995	12,886	12,979	13,098
	All	37,116	38,087	31,992	32,062	31,736	31,840
MAR	W	49,416	50,993	40,575	42,051	40,299	41,904
	AN	44,495	45,088	36,077	36,263	35,162	35,541
	BN	24,489	22,915	16,891	19,063	16,710	18,484
	D	20,656	20,650	16,418	16,961	16,213	16,956
	C	13,245	13,137	12,081	11,983	11,961	11,884
	All	32,834	33,134	26,401	27,372	26,086	27,105
APR	W	37,809	37,543	28,525	32,600	28,339	32,440
	AN	25,979	24,931	17,833	23,186	17,897	23,219
	BN	17,752	17,128	14,230	18,697	14,235	18,304
	D	12,990	12,904	11,925	12,030	11,826	12,022
	C	10,229	10,365	9,893	9,626	9,808	9,686
	All	23,169	22,826	18,149	20,971	18,066	20,865
MAY	W	31,948	24,500	18,675	22,164	18,652	22,238
	AN	21,021	18,657	15,550	18,067	15,722	18,057
	BN	14,227	12,394	12,064	13,225	12,134	12,955
	D	10,959	11,427	11,686	11,426	11,633	11,240
	C	7,749	8,011	7,645	7,575	7,608	7,575
	All	19,175	16,295	13,941	15,546	13,953	15,481
JUN	W	23,900	18,603	14,999	13,271	15,070	13,371
	AN	16,309	16,051	13,982	11,897	14,041	11,894
	BN	13,576	13,898	13,415	12,811	13,247	13,020
	D	12,222	12,656	12,119	11,746	12,087	11,528
	C	9,884	10,123	9,435	9,127	9,403	9,151
	All	16,412	14,880	13,134	12,050	13,124	12,072
JUL	W	19,876	21,425	17,886	15,749	18,173	16,275
	AN	21,574	22,727	20,243	15,907	20,291	16,332
	BN	20,953	20,513	16,670	16,028	17,266	16,143
	D	19,272	18,957	14,341	14,891	13,429	13,557
	C	15,397	13,767	10,060	10,670	10,410	10,630
	All	19,520	19,797	16,100	14,888	16,151	14,838

Alternative 4: In Delta—Sacramento River Downstream of North Delta Diversion Facility							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
AUG	W	15,816	16,064	9,874	9,879	10,427	10,041
	AN	15,877	17,491	12,203	11,980	12,175	11,215
	BN	15,643	16,232	11,902	12,575	12,274	12,675
	D	16,965	14,351	10,855	11,890	10,582	12,117
	C	10,095	8,996	8,727	8,666	8,382	8,994
	All	15,210	14,891	10,609	10,911	10,733	10,965
SEP	W	18,254	27,212	8,137	8,227	19,827	19,710
	AN	13,198	21,006	8,939	9,146	13,210	13,146
	BN	12,427	12,306	8,041	9,534	8,515	8,982
	D	12,155	8,620	9,148	9,553	8,861	9,937
	C	8,485	7,292	8,693	8,942	8,580	9,106
	All	13,751	16,763	8,541	8,980	12,874	13,221
OCT	W	13,505	13,277	10,243	9,994	10,166	10,117
	AN	11,118	11,864	10,574	10,707	10,291	10,625
	BN	11,557	12,124	10,494	9,628	10,197	9,340
	D	10,279	10,487	9,364	9,476	9,011	8,880
	C	10,073	9,964	10,018	10,738	9,452	9,606
	All	11,613	11,776	10,108	10,031	9,831	9,712
NOV	W	19,447	19,285	13,472	13,653	14,622	14,557
	AN	15,309	15,925	10,283	10,247	11,531	11,685
	BN	12,574	13,037	8,404	8,534	9,467	9,586
	D	12,868	11,914	8,795	8,710	9,467	9,345
	C	9,633	9,295	7,654	7,721	8,209	8,320
	All	14,788	14,647	10,262	10,327	11,219	11,231
DEC	W	39,708	37,022	32,758	33,605	31,257	31,752
	AN	21,663	22,629	20,699	19,421	20,348	19,748
	BN	16,678	16,692	15,969	15,185	15,155	14,902
	D	15,442	15,159	14,196	13,509	13,977	13,537
	C	11,816	10,632	11,263	10,616	11,005	10,300
	All	23,727	22,784	20,906	20,609	20,154	19,981

1 **Table 28. Differences^a (Percent Differences) between Pairs of Model Scenarios for the Sacramento**
 2 **River Downstream of the North Delta Diversion Facility, Year-Round**

Alternative 4: In Delta—Sacramento River Downstream of North Delta Diversion Facility									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
JAN	W	-12.4	-15.6	-12.7	-15.9	-13.9	-17.0	-14.8	-17.9
	AN	-13.3	-14.6	-12.2	-13.6	-17.1	-18.4	-17.2	-18.5
	BN	-21.2	-17.3	-18.7	-14.7	-22.5	-18.6	-21.0	-17.1
	D	-12.0	-12.1	-8.6	-8.7	-14.4	-14.4	-15.9	-16.0
	C	-1.0	-6.2	-0.7	-6.0	-2.2	-7.3	-11.2	-15.9
	All	-12.9	-14.6	-12.1	-13.8	-14.9	-16.5	-15.9	-17.5
FEB	W	-12.4	-16.1	-12.7	-16.4	-12.9	-16.6	-13.1	-16.8
	AN	-12.2	-16.1	-12.2	-16.0	-13.7	-17.6	-13.6	-17.4
	BN	-18.9	-18.0	-16.0	-15.1	-20.3	-19.5	-18.3	-17.4
	D	-16.7	-16.4	-17.0	-16.7	-16.3	-15.9	-16.2	-15.8
	C	-11.6	-9.1	-12.4	-9.8	-11.8	-9.2	-10.9	-8.3
	All	-13.8	-16.0	-13.6	-15.8	-14.5	-16.7	-14.2	-16.4
MAR	W	-17.9	-20.4	-14.9	-17.5	-18.4	-21.0	-15.2	-17.8
	AN	-18.9	-20.0	-18.5	-19.6	-21.0	-22.0	-20.1	-21.2
	BN	-31.0	-26.3	-22.2	-16.8	-31.8	-27.1	-24.5	-19.3
	D	-20.5	-20.5	-17.9	-17.9	-21.5	-21.5	-17.9	-17.9
	C	-8.8	-8.0	-9.5	-8.8	-9.7	-9.0	-10.3	-9.5
	All	-19.6	-20.3	-16.6	-17.4	-20.6	-21.3	-17.4	-18.2
APR	W	-24.6	-24.0	-13.8	-13.2	-25.0	-24.5	-14.2	-13.6
	AN	-31.4	-28.5	-10.7	-7.0	-31.1	-28.2	-10.6	-6.9
	BN	-19.8	-16.9	5.3	9.2	-19.8	-16.9	3.1	6.9
	D	-8.2	-7.6	-7.4	-6.8	-9.0	-8.4	-7.5	-6.8
	C	-3.3	-4.6	-5.9	-7.1	-4.1	-5.4	-5.3	-6.6
	All	-21.7	-20.5	-9.5	-8.1	-22.0	-20.9	-9.9	-8.6
MAY	W	-41.5	-23.8	-30.6	-9.5	-41.6	-23.9	-30.4	-9.2
	AN	-26.0	-16.7	-14.1	-3.2	-25.2	-15.7	-14.1	-3.2
	BN	-15.2	-2.7	-7.0	6.7	-14.7	-2.1	-8.9	4.5
	D	6.6	2.3	4.3	0.0	6.1	1.8	2.6	-1.6
	C	-1.3	-4.6	-2.3	-5.4	-1.8	-5.0	-2.2	-5.4
	All	-27.3	-14.5	-18.9	-4.6	-27.2	-14.4	-19.3	-5.0
JUN	W	-37.2	-19.4	-44.5	-28.7	-36.9	-19.0	-44.1	-28.1
	AN	-14.3	-12.9	-27.1	-25.9	-13.9	-12.5	-27.1	-25.9
	BN	-1.2	-3.5	-5.6	-7.8	-2.4	-4.7	-4.1	-6.3
	D	-0.8	-4.2	-3.9	-7.2	-1.1	-4.5	-5.7	-8.9
	C	-4.5	-6.8	-7.7	-9.8	-4.9	-7.1	-7.4	-9.6
	All	-20.0	-11.7	-26.6	-19.0	-20.0	-11.8	-26.4	-18.9
JUL	W	-10.0	-16.5	-20.8	-26.5	-8.6	-15.2	-18.1	-24.0
	AN	-6.2	-10.9	-26.3	-30.0	-5.9	-10.7	-24.3	-28.1
	BN	-20.4	-18.7	-23.5	-21.9	-17.6	-15.8	-23.0	-21.3
	D	-25.6	-24.3	-22.7	-21.4	-30.3	-29.2	-29.7	-28.5
	C	-34.7	-26.9	-30.7	-22.5	-32.4	-24.4	-31.0	-22.8
	All	-17.5	-18.7	-23.7	-24.8	-17.3	-18.4	-24.0	-25.1

Alternative 4: In Delta—Sacramento River Downstream of North Delta Diversion Facility									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
AUG	W	-37.6	-38.5	-37.5	-38.5	-34.1	-35.1	-36.5	-37.5
	AN	-23.1	-30.2	-24.5	-31.5	-23.3	-30.4	-29.4	-35.9
	BN	-23.9	-26.7	-19.6	-22.5	-21.5	-24.4	-19.0	-21.9
	D	-36.0	-24.4	-29.9	-17.1	-37.6	-26.3	-28.6	-15.6
	C	-13.5	-3.0	-14.2	-3.7	-17.0	-6.8	-10.9	0.0
	All	-30.3	-28.8	-28.3	-26.7	-29.4	-27.9	-27.9	-26.4
SEP	W	-55.4	-70.1	-54.9	-69.8	8.6	-27.1	8.0	-27.6
	AN	-32.3	-57.4	-30.7	-56.5	0.1	-37.1	-0.4	-37.4
	BN	-35.3	-34.7	-23.3	-22.5	-31.5	-30.8	-27.7	-27.0
	D	-24.7	6.1	-21.4	10.8	-27.1	2.8	-18.3	15.3
	C	2.4	19.2	5.4	22.6	1.1	17.7	7.3	24.9
	All	-37.9	-49.0	-34.7	-46.4	-6.4	-23.2	-3.9	-21.1
OCT	W	-24.2	-22.9	-26.0	-24.7	-24.7	-23.4	-25.1	-23.8
	AN	-4.9	-10.9	-3.7	-9.7	-7.4	-13.3	-4.4	-10.4
	BN	-9.2	-13.4	-16.7	-20.6	-11.8	-15.9	-19.2	-23.0
	D	-8.9	-10.7	-7.8	-9.6	-12.3	-14.1	-13.6	-15.3
	C	-0.5	0.5	6.6	7.8	-6.2	-5.1	-4.6	-3.6
	All	-13.0	-14.2	-13.6	-14.8	-15.3	-16.5	-16.4	-17.5
NOV	W	-30.7	-30.1	-29.8	-29.2	-24.8	-24.2	-25.1	-24.5
	AN	-32.8	-35.4	-33.1	-35.7	-24.7	-27.6	-23.7	-26.6
	BN	-33.2	-35.5	-32.1	-34.5	-24.7	-27.4	-23.8	-26.5
	D	-31.7	-26.2	-32.3	-26.9	-26.4	-20.5	-27.4	-21.6
	C	-20.5	-17.7	-19.8	-16.9	-14.8	-11.7	-13.6	-10.5
	All	-30.6	-29.9	-30.2	-29.5	-24.1	-23.4	-24.0	-23.3
DEC	W	-17.5	-11.5	-15.4	-9.2	-21.3	-15.6	-20.0	-14.2
	AN	-4.4	-8.5	-10.4	-14.2	-6.1	-10.1	-8.8	-12.7
	BN	-4.3	-4.3	-9.0	-9.0	-9.1	-9.2	-10.6	-10.7
	D	-8.1	-6.4	-12.5	-10.9	-9.5	-7.8	-12.3	-10.7
	C	-4.7	5.9	-10.2	-0.2	-6.9	3.5	-12.8	-3.1
	All	-11.9	-8.2	-13.1	-9.5	-15.1	-11.5	-15.8	-12.3

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.4.2.3 Sacramento River at Rio Vista**

2 **Table 29. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Rio Vista,**
 3 **Year-Round**

Alternative 4: In Delta—Sacramento River at Rio Vista							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
JAN	W	71,111	78,551	74,943	74,601	71,570	72,741
	AN	41,963	42,919	40,415	40,560	38,028	38,395
	BN	20,943	19,991	18,460	19,086	17,958	18,402
	D	14,895	14,927	13,734	14,278	13,330	13,082
	C	11,853	12,601	12,258	12,236	12,107	10,923
	All	37,268	39,721	37,637	37,773	36,022	36,295
FEB	W	80,958	89,989	84,456	84,248	84,018	83,252
	AN	52,542	55,363	52,751	53,242	50,962	51,496
	BN	30,159	29,442	27,323	28,249	26,223	27,124
	D	19,320	19,422	17,322	17,278	17,419	17,431
	C	12,247	11,956	11,257	11,173	11,275	11,386
	All	44,541	47,675	44,613	44,755	44,049	44,057
MAR	W	63,763	68,663	61,821	63,137	61,293	62,982
	AN	46,750	48,513	43,722	43,862	42,558	42,880
	BN	20,980	19,562	15,848	17,865	15,344	16,995
	D	17,656	17,679	15,087	15,590	14,923	15,569
	C	10,710	10,684	10,171	10,095	10,066	9,996
	All	36,084	37,655	33,506	34,388	33,031	34,027
APR	W	38,214	38,422	32,733	36,918	32,540	36,752
	AN	22,726	21,855	17,162	22,738	17,208	22,857
	BN	14,652	14,207	12,214	16,928	12,240	16,574
	D	10,331	10,299	9,652	9,938	9,583	9,930
	C	7,665	7,816	7,513	7,277	7,437	7,330
	All	21,333	21,211	18,194	21,170	18,118	21,080
MAY	W	26,933	20,046	15,090	18,123	15,068	18,187
	AN	17,008	14,948	12,337	14,531	12,487	14,528
	BN	10,924	9,355	9,140	10,168	9,214	9,935
	D	8,135	8,564	8,870	8,663	8,835	8,502
	C	5,305	5,554	5,335	5,275	5,302	5,274
	All	15,456	12,833	10,878	12,282	10,893	12,227
JUN	W	16,557	11,418	8,452	7,216	8,500	7,287
	AN	9,887	9,220	7,370	5,890	7,412	5,890
	BN	7,001	7,241	6,957	6,540	6,839	6,686
	D	6,020	6,335	6,021	5,757	5,997	5,594
	C	4,333	4,513	4,127	3,894	4,101	3,913
	All	9,847	8,257	6,872	6,100	6,864	6,114
JUL	W	11,125	12,181	9,672	8,184	10,079	8,563
	AN	12,128	12,927	12,036	8,109	11,187	8,421
	BN	11,686	11,357	8,655	8,220	9,076	8,291
	D	10,523	10,307	7,358	7,773	6,721	6,548
	C	7,736	6,596	4,045	4,545	4,312	4,514
	All	10,739	10,921	8,513	7,556	8,488	7,461

Alternative 4: In Delta—Sacramento River at Rio Vista							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
AUG	W	8,507	8,650	4,292	4,295	4,670	4,401
	AN	8,538	9,648	5,892	5,747	5,872	5,207
	BN	8,371	8,753	5,698	6,186	5,963	6,261
	D	9,264	7,417	4,968	5,713	4,792	5,864
	C	4,390	3,615	3,586	3,565	3,308	3,779
	All	8,052	7,806	4,811	5,035	4,894	5,066
SEP	W	10,767	21,199	3,288	3,355	11,644	11,592
	AN	6,788	12,832	3,847	3,998	6,873	6,896
	BN	6,283	6,197	3,254	4,316	3,602	3,937
	D	6,116	3,644	4,046	4,329	3,864	4,600
	C	3,588	2,996	3,787	3,972	3,783	4,094
	All	7,348	10,896	3,603	3,917	6,715	6,966
OCT	W	8,718	8,287	6,391	5,713	5,931	5,902
	AN	6,183	7,207	6,462	5,807	5,964	6,673
	BN	6,258	6,976	6,301	5,322	5,908	4,818
	D	5,312	5,727	5,127	4,632	4,719	4,508
	C	5,215	4,969	5,717	6,310	4,978	4,986
	All	6,667	6,858	6,010	5,510	5,526	5,390
NOV	W	15,829	15,879	10,845	10,946	11,744	11,767
	AN	11,333	12,156	6,882	6,841	8,253	8,533
	BN	8,184	9,071	4,855	4,959	5,952	6,020
	D	8,733	8,061	5,336	5,234	5,935	5,853
	C	5,473	5,565	4,070	4,109	4,607	4,683
	All	10,793	10,946	7,042	7,069	7,925	7,978
DEC	W	43,367	40,431	39,856	41,546	37,564	38,547
	AN	19,040	19,936	18,791	17,467	18,525	17,760
	BN	13,987	14,049	14,021	13,250	13,237	12,916
	D	11,999	11,687	11,300	10,657	11,101	10,631
	C	8,131	7,186	7,917	7,297	7,603	7,042
	All	22,749	21,753	21,420	21,399	20,431	20,391

1 **Table 30. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento**
 2 **River at Rio Vista, Year-Round**

Alternative 4: In Delta—Sacramento River at Rio Vista									
Month	WYT	EXISTING CONDITION S vs. H1	NAA vs. H1	EXISTING CONDITION S vs. H2	NAA vs. H2	EXISTING CONDITION S vs. H3	NAA vs. H3	EXISTING CONDITION S vs. H4	NAA vs. H4
JAN	W	3,832 (5.4%)	-3,608 (-4.6%)	3,489 (4.9%)	-3,951 (-5%)	458 (0.6%)	-6,982 (-8.9%)	1,630 (2.3%)	-5,810 (-7.4%)
	AN	-1,548 (-3.7%)	-2,504 (-5.8%)	-1,403 (-3.3%)	-2,359 (-5.5%)	-3,935 (-9.4%)	-4,891 (-11.4%)	-3,568 (-8.5%)	-4,524 (-10.5%)
	BN	-2,482 (-11.9%)	-1,530 (-7.7%)	-1,856 (-8.9%)	-904 (-4.5%)	-2,985 (-14.3%)	-2,033 (-10.2%)	-2,541 (-12.1%)	-1,589 (-7.9%)
	D	-1,161 (-7.8%)	-1,193 (-8%)	-616 (-4.1%)	-649 (-4.3%)	-1,565 (-10.5%)	-1,597 (-10.7%)	-1,812 (-12.2%)	-1,845 (-12.4%)
	C	405 (3.4%)	-344 (-2.7%)	384 (3.2%)	-365 (-2.9%)	254 (2.1%)	-494 (-3.9%)	-930 (-7.8%)	-1,679 (-13.3%)
	All	369 (1%)	-2,084 (-5.2%)	505 (1.4%)	-1,948 (-4.9%)	-1,246 (-3.3%)	-3,699 (-9.3%)	-973 (-2.6%)	-3,426 (-8.6%)
FEB	W	3,498 (4.3%)	-5,533 (-6.1%)	3,290 (4.1%)	-5,741 (-6.4%)	3,060 (3.8%)	-5,971 (-6.6%)	2,294 (2.8%)	-6,737 (-7.5%)
	AN	208 (0.4%)	-2,612 (-4.7%)	699 (1.3%)	-2,121 (-3.8%)	-1,580 (-3%)	-4,401 (-7.9%)	-1,046 (-2%)	-3,866 (-7%)
	BN	-2,836 (-9.4%)	-2,120 (-7.2%)	-1,910 (-6.3%)	-1,194 (-4.1%)	-3,936 (-13.1%)	-3,220 (-10.9%)	-3,035 (-10.1%)	-2,319 (-7.9%)
	D	-1,998 (-10.3%)	-2,101 (-10.8%)	-2,042 (-10.6%)	-2,145 (-11%)	-1,900 (-9.8%)	-2,003 (-10.3%)	-1,888 (-9.8%)	-1,991 (-10.3%)
	C	-990 (-8.1%)	-699 (-5.8%)	-1,073 (-8.8%)	-782 (-6.5%)	-972 (-7.9%)	-681 (-5.7%)	-861 (-7%)	-569 (-4.8%)
	All	72 (0.2%)	-3,062 (-6.4%)	214 (0.5%)	-2,920 (-6.1%)	-492 (-1.1%)	-3,626 (-7.6%)	-484 (-1.1%)	-3,618 (-7.6%)
MAR	W	-1,942 (-3%)	-6,842 (-10%)	-626 (-1%)	-5,525 (-8%)	-2,470 (-3.9%)	-7,369 (-10.7%)	-781 (-1.2%)	-5,680 (-8.3%)
	AN	-3,029 (-6.5%)	-4,791 (-9.9%)	-2,889 (-6.2%)	-4,651 (-9.6%)	-4,193 (-9%)	-5,955 (-12.3%)	-3,871 (-8.3%)	-5,633 (-11.6%)
	BN	-5,132 (-24.5%)	-3,714 (-19%)	-3,114 (-14.8%)	-1,697 (-8.7%)	-5,636 (-26.9%)	-4,218 (-21.6%)	-3,985 (-19%)	-2,567 (-13.1%)
	D	-2,569 (-14.5%)	-2,591 (-14.7%)	-2,066 (-11.7%)	-2,089 (-11.8%)	-2,733 (-15.5%)	-2,755 (-15.6%)	-2,087 (-11.8%)	-2,110 (-11.9%)
	C	-540 (-5%)	-513 (-4.8%)	-615 (-5.7%)	-588 (-5.5%)	-644 (-6%)	-617 (-5.8%)	-714 (-6.7%)	-687 (-6.4%)
	All	-2,578 (-7.1%)	-4,148 (-11%)	-1,696 (-4.7%)	-3,267 (-8.7%)	-3,053 (-8.5%)	-4,624 (-12.3%)	-2,057 (-5.7%)	-3,627 (-9.6%)
APR	W	-5,480 (-14.3%)	-5,689 (-14.8%)	-1,295 (-3.4%)	-1,504 (-3.9%)	-5,674 (-14.8%)	-5,883 (-15.3%)	-1,461 (-3.8%)	-1,670 (-4.3%)
	AN	-5,564 (-24.5%)	-4,693 (-21.5%)	12 (0.1%)	883 (4%)	-5,518 (-24.3%)	-4,647 (-21.3%)	130 (0.6%)	1,002 (4.6%)
	BN	-2,439 (-16.6%)	-1,993 (-14%)	2,276 (15.5%)	2,721 (19.2%)	-2,412 (-16.5%)	-1,967 (-13.8%)	1,922 (13.1%)	2,367 (16.7%)
	D	-679 (-6.6%)	-646 (-6.3%)	-393 (-3.8%)	-360 (-3.5%)	-748 (-7.2%)	-715 (-6.9%)	-401 (-3.9%)	-368 (-3.6%)
	C	-152 (-2%)	-303 (-3.9%)	-388 (-5.1%)	-539 (-6.9%)	-228 (-3%)	-379 (-4.8%)	-335 (-4.4%)	-487 (-6.2%)
	All	-3,139 (-14.7%)	-3,017 (-14.2%)	-163 (-0.8%)	-41 (-0.2%)	-3,216 (-15.1%)	-3,094 (-14.6%)	-253 (-1.2%)	-131 (-0.6%)

Alternative 4: In Delta—Sacramento River at Rio Vista									
Month	WYT	EXISTING CONDITION S vs. H1	NAA vs. H1	EXISTING CONDITION S vs. H2	NAA vs. H2	EXISTING CONDITION S vs. H3	NAA vs. H3	EXISTING CONDITION S vs. H4	NAA vs. H4
MAY	W	-11,843 (-44%)	-4,956 (-24.7%)	-8,810 (-32.7%)	-1,923 (-9.6%)	-11,865 (-44.1%)	-4,978 (-24.8%)	-8,745 (-32.5%)	-1,858 (-9.3%)
	AN	-4,671 (-27.5%)	-2,611 (-17.5%)	-2,476 (-14.6%)	-417 (-2.8%)	-4,521 (-26.6%)	-2,461 (-16.5%)	-2,480 (-14.6%)	-420 (-2.8%)
	BN	-1,784 (-16.3%)	-215 (-2.3%)	-756 (-6.9%)	813 (8.7%)	-1,710 (-15.7%)	-141 (-1.5%)	-989 (-9.1%)	580 (6.2%)
	D	735 (9%)	306 (3.6%)	528 (6.5%)	99 (1.2%)	701 (8.6%)	272 (3.2%)	367 (4.5%)	-62 (-0.7%)
	C	29 (0.6%)	-219 (-4%)	-30 (-0.6%)	-279 (-5%)	-3 (-0.1%)	-252 (-4.5%)	-31 (-0.6%)	-280 (-5%)
	All	-4,577 (-29.6%)	-1,955 (-15.2%)	-3,173 (-20.5%)	-551 (-4.3%)	-4,562 (-29.5%)	-1,940 (-15.1%)	-3,229 (-20.9%)	-606 (-4.7%)
JUN	W	-8,105 (-49%)	-2,966 (-26%)	-9,341 (-56.4%)	-4,202 (-36.8%)	-8,057 (-48.7%)	-2,918 (-25.6%)	-9,270 (-56%)	-4,131 (-36.2%)
	AN	-2,517 (-25.5%)	-1,850 (-20.1%)	-3,997 (-40.4%)	-3,330 (-36.1%)	-2,475 (-25%)	-1,808 (-19.6%)	-3,997 (-40.4%)	-3,330 (-36.1%)
	BN	-43 (-0.6%)	-283 (-3.9%)	-461 (-6.6%)	-701 (-9.7%)	-162 (-2.3%)	-402 (-5.5%)	-314 (-4.5%)	-554 (-7.7%)
	D	1 (0%)	-314 (-5%)	-263 (-4.4%)	-578 (-9.1%)	-23 (-0.4%)	-338 (-5.3%)	-426 (-7.1%)	-741 (-11.7%)
	C	-205 (-4.7%)	-386 (-8.5%)	-438 (-10.1%)	-619 (-13.7%)	-232 (-5.3%)	-412 (-9.1%)	-420 (-9.7%)	-600 (-13.3%)
	All	-2,975 (-30.2%)	-1,385 (-16.8%)	-3,747 (-38.1%)	-2,157 (-26.1%)	-2,983 (-30.3%)	-1,393 (-16.9%)	-3,733 (-37.9%)	-2,143 (-25.9%)
JUL	W	-1,453 (-13.1%)	-2,509 (-20.6%)	-2,941 (-26.4%)	-3,998 (-32.8%)	-1,046 (-9.4%)	-2,103 (-17.3%)	-2,561 (-23%)	-3,618 (-29.7%)
	AN	-92 (-0.8%)	-891 (-6.9%)	-4,019 (-33.1%)	-4,818 (-37.3%)	-941 (-7.8%)	-1,740 (-13.5%)	-3,707 (-30.6%)	-4,507 (-34.9%)
	BN	-3,031 (-25.9%)	-2,702 (-23.8%)	-3,466 (-29.7%)	-3,137 (-27.6%)	-2,611 (-22.3%)	-2,281 (-20.1%)	-3,395 (-29.1%)	-3,066 (-27%)
	D	-3,165 (-30.1%)	-2,949 (-28.6%)	-2,750 (-26.1%)	-2,534 (-24.6%)	-3,803 (-36.1%)	-3,586 (-34.8%)	-3,975 (-37.8%)	-3,759 (-36.5%)
	C	-3,691 (-47.7%)	-2,551 (-38.7%)	-3,191 (-41.2%)	-2,051 (-31.1%)	-3,425 (-44.3%)	-2,285 (-34.6%)	-3,222 (-41.6%)	-2,082 (-31.6%)
	All	-2,227 (-20.7%)	-2,408 (-22.1%)	-3,183 (-29.6%)	-3,365 (-30.8%)	-2,251 (-21%)	-2,433 (-22.3%)	-3,278 (-30.5%)	-3,460 (-31.7%)
AUG	W	-4,215 (-49.5%)	-4,358 (-50.4%)	-4,211 (-49.5%)	-4,354 (-50.3%)	-3,837 (-45.1%)	-3,980 (-46%)	-4,106 (-48.3%)	-4,249 (-49.1%)
	AN	-2,646 (-31%)	-3,756 (-38.9%)	-2,791 (-32.7%)	-3,901 (-40.4%)	-2,666 (-31.2%)	-3,776 (-39.1%)	-3,331 (-39%)	-4,440 (-46%)
	BN	-2,673 (-31.9%)	-3,055 (-34.9%)	-2,185 (-26.1%)	-2,567 (-29.3%)	-2,408 (-28.8%)	-2,790 (-31.9%)	-2,110 (-25.2%)	-2,492 (-28.5%)
	D	-4,296 (-46.4%)	-2,449 (-33%)	-3,551 (-38.3%)	-1,704 (-23%)	-4,473 (-48.3%)	-2,625 (-35.4%)	-3,401 (-36.7%)	-1,553 (-20.9%)
	C	-804 (-18.3%)	-29 (-0.8%)	-825 (-18.8%)	-50 (-1.4%)	-1,082 (-24.7%)	-307 (-8.5%)	-611 (-13.9%)	164 (4.5%)
	All	-3,241 (-40.2%)	-2,995 (-38.4%)	-3,017 (-37.5%)	-2,771 (-35.5%)	-3,158 (-39.2%)	-2,912 (-37.3%)	-2,986 (-37.1%)	-2,740 (-35.1%)

Alternative 4: In Delta—Sacramento River at Rio Vista									
Month	WYT	EXISTING CONDITION S vs. H1	NAA vs. H1	EXISTING CONDITION S vs. H2	NAA vs. H2	EXISTING CONDITION S vs. H3	NAA vs. H3	EXISTING CONDITION S vs. H4	NAA vs. H4
SEP	W	-7,479 (-69.5%)	-17,911 (-84.5%)	-7,412 (-68.8%)	-17,844 (-84.2%)	877 (8.1%)	-9,555 (-45.1%)	825 (7.7%)	-9,607 (-45.3%)
	AN	-2,942 (-43.3%)	-8,985 (-70%)	-2,790 (-41.1%)	-8,834 (-68.8%)	85 (1.3%)	-5,959 (-46.4%)	107 (1.6%)	-5,936 (-46.3%)
	BN	-3,029 (-48.2%)	-2,944 (-47.5%)	-1,968 (-31.3%)	-1,882 (-30.4%)	-2,681 (-42.7%)	-2,595 (-41.9%)	-2,346 (-37.3%)	-2,260 (-36.5%)
	D	-2,071 (-33.9%)	401 (11%)	-1,788 (-29.2%)	685 (18.8%)	-2,252 (-36.8%)	220 (6%)	-1,516 (-24.8%)	956 (26.2%)
	C	198 (5.5%)	791 (26.4%)	383 (10.7%)	976 (32.6%)	195 (5.4%)	787 (26.3%)	506 (14.1%)	1,098 (36.7%)
	All	-3,744 (-51%)	-7,293 (-66.9%)	-3,431 (-46.7%)	-6,979 (-64%)	-633 (-8.6%)	-4,181 (-38.4%)	-382 (-5.2%)	-3,930 (-36.1%)
OCT	W	-2,327 (-26.7%)	-1,897 (-22.9%)	-3,005 (-34.5%)	-2,574 (-31.1%)	-2,787 (-32%)	-2,356 (-28.4%)	-2,816 (-32.3%)	-2,385 (-28.8%)
	AN	279 (4.5%)	-745 (-10.3%)	-376 (-6.1%)	-1,400 (-19.4%)	-219 (-3.5%)	-1,243 (-17.2%)	490 (7.9%)	-534 (-7.4%)
	BN	42 (0.7%)	-675 (-9.7%)	-936 (-15%)	-1,654 (-23.7%)	-350 (-5.6%)	-1,068 (-15.3%)	-1,440 (-23%)	-2,158 (-30.9%)
	D	-185 (-3.5%)	-600 (-10.5%)	-680 (-12.8%)	-1,095 (-19.1%)	-593 (-11.2%)	-1,008 (-17.6%)	-804 (-15.1%)	-1,219 (-21.3%)
	C	502 (9.6%)	747 (15%)	1,095 (21%)	1,341 (27%)	-237 (-4.5%)	9 (0.2%)	-229 (-4.4%)	17 (0.3%)
	All	-657 (-9.9%)	-848 (-12.4%)	-1,157 (-17.3%)	-1,348 (-19.7%)	-1,140 (-17.1%)	-1,331 (-19.4%)	-1,277 (-19.2%)	-1,468 (-21.4%)
NOV	W	-4,984 (-31.5%)	-5,034 (-31.7%)	-4,883 (-30.8%)	-4,933 (-31.1%)	-4,085 (-25.8%)	-4,135 (-26%)	-4,062 (-25.7%)	-4,112 (-25.9%)
	AN	-4,451 (-39.3%)	-5,274 (-43.4%)	-4,492 (-39.6%)	-5,315 (-43.7%)	-3,079 (-27.2%)	-3,902 (-32.1%)	-2,799 (-24.7%)	-3,622 (-29.8%)
	BN	-3,329 (-40.7%)	-4,216 (-46.5%)	-3,225 (-39.4%)	-4,112 (-45.3%)	-2,232 (-27.3%)	-3,119 (-34.4%)	-2,164 (-26.4%)	-3,051 (-33.6%)
	D	-3,397 (-38.9%)	-2,725 (-33.8%)	-3,499 (-40.1%)	-2,827 (-35.1%)	-2,798 (-32%)	-2,126 (-26.4%)	-2,880 (-33%)	-2,208 (-27.4%)
	C	-1,404 (-25.6%)	-1,495 (-26.9%)	-1,365 (-24.9%)	-1,456 (-26.2%)	-866 (-15.8%)	-958 (-17.2%)	-791 (-14.5%)	-882 (-15.9%)
	All	-3,751 (-34.8%)	-3,905 (-35.7%)	-3,724 (-34.5%)	-3,878 (-35.4%)	-2,868 (-26.6%)	-3,022 (-27.6%)	-2,815 (-26.1%)	-2,969 (-27.1%)
DEC	W	-3,511 (-8.1%)	-576 (-1.4%)	-1,821 (-4.2%)	1,115 (2.8%)	-5,803 (-13.4%)	-2,867 (-7.1%)	-4,820 (-11.1%)	-1,884 (-4.7%)
	AN	-250 (-1.3%)	-1,145 (-5.7%)	-1,574 (-8.3%)	-2,469 (-12.4%)	-515 (-2.7%)	-1,411 (-7.1%)	-1,281 (-6.7%)	-2,176 (-10.9%)
	BN	33 (0.2%)	-29 (-0.2%)	-737 (-5.3%)	-799 (-5.7%)	-751 (-5.4%)	-812 (-5.8%)	-1,072 (-7.7%)	-1,133 (-8.1%)
	D	-699 (-5.8%)	-388 (-3.3%)	-1,342 (-11.2%)	-1,031 (-8.8%)	-898 (-7.5%)	-586 (-5%)	-1,368 (-11.4%)	-1,056 (-9%)
	C	-214 (-2.6%)	732 (10.2%)	-834 (-10.3%)	112 (1.6%)	-528 (-6.5%)	417 (5.8%)	-1,089 (-13.4%)	-144 (-2%)
	All	-1,329 (-5.8%)	-333 (-1.5%)	-1,350 (-5.9%)	-354 (-1.6%)	-2,318 (-10.2%)	-1,322 (-6.1%)	-2,358 (-10.4%)	-1,362 (-6.3%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.4.2.4 Delta Outflow**

2 **Table 31. Mean Monthly Flows (cfs) for Model Scenarios at the Delta Outflow, Year-Round**

Alternative 4: In Delta—Delta Outflow							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
JAN	W	85,900	94,620	94,197	93,786	90,641	91,842
	AN	49,448	51,100	50,632	50,566	48,151	48,071
	BN	22,968	22,301	22,233	22,911	21,625	22,124
	D	14,736	14,732	15,634	16,406	15,382	15,064
	C	11,343	12,651	13,503	13,543	13,475	12,262
	All	43,289	46,372	46,481	46,632	44,827	45,034
FEB	W	96,835	107,085	107,182	107,175	106,277	105,863
	AN	62,321	65,873	65,940	66,792	64,056	64,680
	BN	36,766	36,084	35,174	36,240	34,067	35,059
	D	20,915	21,461	20,148	20,164	20,243	20,350
	C	12,991	12,798	12,593	12,586	12,528	12,818
	All	52,594	56,338	55,905	56,212	55,165	55,360
MAR	W	78,956	84,471	83,959	86,298	82,968	85,415
	AN	54,171	56,737	56,524	57,210	55,231	56,124
	BN	24,029	22,467	20,300	24,750	19,621	23,915
	D	19,880	19,985	17,546	19,292	17,463	19,249
	C	11,911	12,215	11,883	12,104	11,862	11,957
	All	43,172	45,097	43,949	45,967	43,308	45,354
APR	W	54,394	54,562	49,209	54,424	48,976	54,124
	AN	31,975	30,576	25,334	32,552	25,403	32,730
	BN	21,928	20,641	18,543	24,720	18,412	24,384
	D	14,142	13,413	12,706	13,817	12,615	13,822
	C	9,053	9,294	8,949	8,950	8,887	9,029
	All	30,099	29,603	26,575	30,583	26,460	30,470
MAY	W	41,040	32,880	29,306	33,100	29,273	33,155
	AN	24,200	21,709	19,292	22,440	19,367	22,438
	BN	16,299	13,596	13,706	15,504	13,853	15,221
	D	10,487	10,375	11,003	11,038	11,035	10,955
	C	6,000	6,286	6,323	6,428	6,271	6,414
	All	22,517	19,121	17,796	19,790	17,821	19,738
JUN	W	23,451	15,640	15,779	15,553	15,740	15,400
	AN	11,801	10,676	10,996	10,443	11,054	10,508
	BN	8,004	8,943	9,885	9,925	9,653	9,927
	D	6,636	7,689	7,896	7,756	7,816	7,772
	C	5,322	5,632	5,356	5,335	5,320	5,333
	All	12,765	10,560	10,817	10,637	10,751	10,602
JUL	W	11,441	11,407	9,497	9,171	9,598	9,458
	AN	9,430	12,225	9,673	8,823	9,670	9,138
	BN	7,151	7,668	6,619	6,467	6,872	6,748
	D	5,024	6,448	5,574	5,726	5,494	5,608
	C	4,238	5,832	5,177	5,329	5,319	5,313
	All	7,951	8,984	7,538	7,340	7,616	7,497

Alternative 4: In Delta—Delta Outflow							
Month	WYT	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
AUG	W	5,341	4,308	4,000	4,000	4,000	4,000
	AN	4,000	4,713	4,143	4,011	4,152	4,000
	BN	4,000	5,129	4,429	4,357	4,449	4,363
	D	4,829	5,348	4,566	4,734	4,556	4,729
	C	4,077	4,433	4,182	3,954	3,983	4,034
	All	4,618	4,754	4,245	4,217	4,218	4,227
SEP	W	9,569	20,078	4,246	4,352	21,394	21,406
	AN	3,672	11,581	3,279	3,559	12,634	12,895
	BN	3,445	3,428	3,289	4,026	3,365	3,717
	D	3,350	3,021	4,263	4,389	4,201	4,651
	C	3,000	3,036	5,585	6,061	5,916	6,200
	All	5,334	9,754	4,141	4,438	10,995	11,237
OCT	W	6,487	9,520	9,519	9,395	10,426	10,486
	AN	4,021	8,982	9,189	9,344	9,706	10,114
	BN	4,477	8,054	9,393	8,609	10,040	9,244
	D	4,157	7,294	8,223	8,247	8,387	8,199
	C	4,158	6,607	8,594	9,207	8,393	8,359
	All	4,931	8,276	9,029	8,974	9,510	9,406
NOV	W	14,232	15,987	12,651	12,703	16,170	15,936
	AN	9,683	11,529	7,298	7,476	11,000	11,214
	BN	5,864	8,681	4,588	5,062	8,264	8,673
	D	6,943	8,052	5,347	5,414	7,912	8,097
	C	5,045	5,725	4,346	4,189	5,764	6,031
	All	9,193	10,844	7,672	7,788	10,728	10,834
DEC	W	48,185	45,191	46,927	48,571	44,012	44,930
	AN	18,014	19,119	19,935	18,497	19,129	18,426
	BN	11,950	12,231	13,154	12,843	12,206	11,990
	D	8,884	8,828	9,800	9,520	9,510	9,506
	C	5,531	6,560	6,848	6,685	6,430	5,989
	All	22,714	22,113	23,196	23,368	21,867	21,953

1 **Table 32. Differences^a (Percent Differences) between Pairs of Model Scenarios at the Delta Outflow,**
 2 **Year-Round**

Alternative 4: In Delta—Delta Outflow									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
JAN	W	8,297 (9.7%)	-423 (-0.4%)	7,887 (9.2%)	-833 (-0.9%)	4,741 (5.5%)	-3,978 (-4.2%)	5,942 (6.9%)	-2,778 (-2.9%)
	AN	1,185 (2.4%)	-468 (-0.9%)	1,119 (2.3%)	-533 (-1%)	-1,297 (-2.6%)	-2,949 (-5.8%)	-1,377 (-2.8%)	-3,029 (-5.9%)
	BN	-736 (-3.2%)	-68 (-0.3%)	-57 (-0.2%)	610 (2.7%)	-1,343 (-5.8%)	-676 (-3%)	-844 (-3.7%)	-177 (-0.8%)
	D	898 (6.1%)	901 (6.1%)	1,671 (11.3%)	1,674 (11.4%)	646 (4.4%)	649 (4.4%)	329 (2.2%)	332 (2.3%)
	C	2,160 (19%)	852 (6.7%)	2,200 (19.4%)	892 (7.1%)	2,132 (18.8%)	824 (6.5%)	920 (8.1%)	-388 (-3.1%)
	All	3,192 (7.4%)	108 (0.2%)	3,343 (7.7%)	260 (0.6%)	1,538 (3.6%)	-1,545 (-3.3%)	1,745 (4%)	-1,338 (-2.9%)
FEB	W	10,347 (10.7%)	97 (0.1%)	10,340 (10.7%)	90 (0.1%)	9,441 (9.8%)	-809 (-0.8%)	9,028 (9.3%)	-1,222 (-1.1%)
	AN	3,618 (5.8%)	66 (0.1%)	4,471 (7.2%)	919 (1.4%)	1,735 (2.8%)	-1,817 (-2.8%)	2,358 (3.8%)	-1,193 (-1.8%)
	BN	-1,593 (-4.3%)	-911 (-2.5%)	-526 (-1.4%)	156 (0.4%)	-2,699 (-7.3%)	-2,017 (-5.6%)	-1,708 (-4.6%)	-1,026 (-2.8%)
	D	-767 (-3.7%)	-1,313 (-6.1%)	-751 (-3.6%)	-1,297 (-6%)	-673 (-3.2%)	-1,218 (-5.7%)	-565 (-2.7%)	-1,111 (-5.2%)
	C	-398 (-3.1%)	-205 (-1.6%)	-405 (-3.1%)	-212 (-1.7%)	-463 (-3.6%)	-270 (-2.1%)	-173 (-1.3%)	20 (0.2%)
	All	3,312 (6.3%)	-433 (-0.8%)	3,619 (6.9%)	-126 (-0.2%)	2,571 (4.9%)	-1,174 (-2.1%)	2,767 (5.3%)	-978 (-1.7%)
MAR	W	5,003 (6.3%)	-512 (-0.6%)	7,342 (9.3%)	1,826 (2.2%)	4,012 (5.1%)	-1,504 (-1.8%)	6,459 (8.2%)	944 (1.1%)
	AN	2,353 (4.3%)	-213 (-0.4%)	3,039 (5.6%)	472 (0.8%)	1,060 (2%)	-1,507 (-2.7%)	1,953 (3.6%)	-613 (-1.1%)
	BN	-3,728 (-15.5%)	-2,167 (-9.6%)	722 (3%)	2,283 (10.2%)	-4,408 (-18.3%)	-2,846 (-12.7%)	-114 (-0.5%)	1,447 (6.4%)
	D	-2,334 (-11.7%)	-2,440 (-12.2%)	-588 (-3%)	-693 (-3.5%)	-2,418 (-12.2%)	-2,523 (-12.6%)	-632 (-3.2%)	-737 (-3.7%)
	C	-28 (-0.2%)	-332 (-2.7%)	193 (1.6%)	-111 (-0.9%)	-49 (-0.4%)	-353 (-2.9%)	45 (0.4%)	-258 (-2.1%)
	All	778 (1.8%)	-1,148 (-2.5%)	2,795 (6.5%)	870 (1.9%)	137 (0.3%)	-1,789 (-4%)	2,182 (5.1%)	257 (0.6%)
APR	W	-5,185 (-9.5%)	-5,353 (-9.8%)	30 (0.1%)	-138 (-0.3%)	-5,418 (-10%)	-5,586 (-10.2%)	-270 (-0.5%)	-438 (-0.8%)
	AN	-6,641 (-20.8%)	-5,242 (-17.1%)	577 (1.8%)	1,976 (6.5%)	-6,572 (-20.6%)	-5,173 (-16.9%)	754 (2.4%)	2,154 (7%)
	BN	-3,385 (-15.4%)	-2,098 (-10.2%)	2,793 (12.7%)	4,079 (19.8%)	-3,516 (-16%)	-2,229 (-10.8%)	2,457 (11.2%)	3,743 (18.1%)
	D	-1,435 (-10.2%)	-707 (-5.3%)	-325 (-2.3%)	404 (3%)	-1,527 (-10.8%)	-798 (-6%)	-319 (-2.3%)	409 (3%)
	C	-104 (-1.1%)	-344 (-3.7%)	-104 (-1.1%)	-344 (-3.7%)	-166 (-1.8%)	-406 (-4.4%)	-24 (-0.3%)	-264 (-2.8%)
	All	-3,524 (-11.7%)	-3,028 (-10.2%)	484 (1.6%)	980 (3.3%)	-3,639 (-12.1%)	-3,143 (-10.6%)	371 (1.2%)	867 (2.9%)

Alternative 4: In Delta—Delta Outflow									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
MAY	W	-11,733 (-28.6%)	-3,574 (-10.9%)	-7,940 (-19.3%)	220 (0.7%)	-11,767 (-28.7%)	-3,608 (-11%)	-7,885 (-19.2%)	274 (0.8%)
	AN	-4,908 (-20.3%)	-2,417 (-11.1%)	-1,760 (-7.3%)	731 (3.4%)	-4,833 (-20%)	-2,343 (-10.8%)	-1,762 (-7.3%)	728 (3.4%)
	BN	-2,593 (-15.9%)	110 (0.8%)	-795 (-4.9%)	1,908 (14%)	-2,446 (-15%)	257 (1.9%)	-1,078 (-6.6%)	1,625 (12%)
	D	515 (4.9%)	628 (6.1%)	550 (5.2%)	663 (6.4%)	547 (5.2%)	660 (6.4%)	468 (4.5%)	580 (5.6%)
	C	324 (5.4%)	38 (0.6%)	428 (7.1%)	142 (2.3%)	271 (4.5%)	-15 (-0.2%)	415 (6.9%)	128 (2%)
	All	-4,721 (-21%)	-1,325 (-6.9%)	-2,727 (-12.1%)	669 (3.5%)	-4,696 (-20.9%)	-1,300 (-6.8%)	-2,779 (-12.3%)	617 (3.2%)
JUN	W	-7,672 (-32.7%)	139 (0.9%)	-7,898 (-33.7%)	-87 (-0.6%)	-7,710 (-32.9%)	101 (0.6%)	-8,051 (-34.3%)	-240 (-1.5%)
	AN	-805 (-6.8%)	320 (3%)	-1,358 (-11.5%)	-233 (-2.2%)	-747 (-6.3%)	378 (3.5%)	-1,293 (-11%)	-168 (-1.6%)
	BN	1,881 (23.5%)	942 (10.5%)	1,921 (24%)	982 (11%)	1,649 (20.6%)	710 (7.9%)	1,923 (24%)	984 (11%)
	D	1,261 (19%)	207 (2.7%)	1,121 (16.9%)	67 (0.9%)	1,181 (17.8%)	127 (1.7%)	1,136 (17.1%)	83 (1.1%)
	C	34 (0.6%)	-276 (-4.9%)	13 (0.2%)	-297 (-5.3%)	-2 (0%)	-312 (-5.5%)	11 (0.2%)	-298 (-5.3%)
	All	-1,948 (-15.3%)	257 (2.4%)	-2,127 (-16.7%)	77 (0.7%)	-2,014 (-15.8%)	191 (1.8%)	-2,162 (-16.9%)	42 (0.4%)
JUL	W	-1,943 (-17%)	-1,909 (-16.7%)	-2,270 (-19.8%)	-2,236 (-19.6%)	-1,842 (-16.1%)	-1,808 (-15.9%)	-1,983 (-17.3%)	-1,949 (-17.1%)
	AN	242 (2.6%)	-2,552 (-20.9%)	-608 (-6.4%)	-3,402 (-27.8%)	240 (2.5%)	-2,554 (-20.9%)	-292 (-3.1%)	-3,086 (-25.2%)
	BN	-532 (-7.4%)	-1,049 (-13.7%)	-684 (-9.6%)	-1,201 (-15.7%)	-279 (-3.9%)	-796 (-10.4%)	-403 (-5.6%)	-920 (-12%)
	D	550 (11%)	-875 (-13.6%)	703 (14%)	-722 (-11.2%)	470 (9.4%)	-954 (-14.8%)	585 (11.6%)	-840 (-13%)
	C	940 (22.2%)	-655 (-11.2%)	1,091 (25.7%)	-503 (-8.6%)	1,081 (25.5%)	-514 (-8.8%)	1,076 (25.4%)	-519 (-8.9%)
	All	-413 (-5.2%)	-1,446 (-16.1%)	-612 (-7.7%)	-1,644 (-18.3%)	-335 (-4.2%)	-1,368 (-15.2%)	-455 (-5.7%)	-1,487 (-16.6%)
AUG	W	-1,341 (-25.1%)	-308 (-7.2%)	-1,341 (-25.1%)	-308 (-7.2%)	-1,341 (-25.1%)	-308 (-7.2%)	-1,341 (-25.1%)	-308 (-7.2%)
	AN	143 (3.6%)	-570 (-12.1%)	11 (0.3%)	-703 (-14.9%)	152 (3.8%)	-561 (-11.9%)	0 (0%)	-713 (-15.1%)
	BN	429 (10.7%)	-700 (-13.6%)	357 (8.9%)	-772 (-15.1%)	449 (11.2%)	-681 (-13.3%)	363 (9.1%)	-766 (-14.9%)
	D	-263 (-5.4%)	-782 (-14.6%)	-94 (-2%)	-613 (-11.5%)	-273 (-5.7%)	-792 (-14.8%)	-99 (-2.1%)	-618 (-11.6%)
	C	105 (2.6%)	-251 (-5.7%)	-123 (-3%)	-479 (-10.8%)	-95 (-2.3%)	-451 (-10.2%)	-43 (-1.1%)	-399 (-9%)
	All	-373 (-8.1%)	-509 (-10.7%)	-401 (-8.7%)	-537 (-11.3%)	-400 (-8.7%)	-536 (-11.3%)	-391 (-8.5%)	-527 (-11.1%)

Alternative 4: In Delta—Delta Outflow									
Month	WYT	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
SEP	W	-5,323 (-55.6%)	-15,832 (-78.9%)	-5,217 (-54.5%)	-15,726 (-78.3%)	11,825 (123.6%)	1,316 (6.6%)	11,837 (123.7%)	1,328 (6.6%)
	AN	-393 (-10.7%)	-8,302 (-71.7%)	-113 (-3.1%)	-8,023 (-69.3%)	8,962 (244.1%)	1,053 (9.1%)	9,223 (251.2%)	1,314 (11.3%)
	BN	-156 (-4.5%)	-138 (-4%)	580 (16.8%)	598 (17.4%)	-80 (-2.3%)	-63 (-1.8%)	272 (7.9%)	289 (8.4%)
	D	913 (27.3%)	1,242 (41.1%)	1,039 (31%)	1,368 (45.3%)	851 (25.4%)	1,179 (39%)	1,301 (38.8%)	1,630 (53.9%)
	C	2,585 (86.2%)	2,549 (84%)	3,061 (102%)	3,025 (99.6%)	2,916 (97.2%)	2,881 (94.9%)	3,200 (106.7%)	3,164 (104.2%)
	All	-1,193 (-22.4%)	-5,613 (-57.5%)	-896 (-16.8%)	-5,315 (-54.5%)	5,661 (106.1%)	1,241 (12.7%)	5,903 (110.7%)	1,484 (15.2%)
OCT	W	3,032 (46.7%)	-1 (0%)	2,908 (44.8%)	-125 (-1.3%)	3,939 (60.7%)	906 (9.5%)	3,999 (61.6%)	966 (10.1%)
	AN	5,167 (128.5%)	207 (2.3%)	5,323 (132.4%)	362 (4%)	5,685 (141.4%)	724 (8.1%)	6,092 (151.5%)	1,132 (12.6%)
	BN	4,916 (109.8%)	1,339 (16.6%)	4,133 (92.3%)	556 (6.9%)	5,563 (124.3%)	1,986 (24.7%)	4,768 (106.5%)	1,190 (14.8%)
	D	4,065 (97.8%)	929 (12.7%)	4,090 (98.4%)	953 (13.1%)	4,230 (101.7%)	1,093 (15%)	4,042 (97.2%)	905 (12.4%)
	C	4,436 (106.7%)	1,987 (30.1%)	5,049 (121.4%)	2,600 (39.4%)	4,235 (101.9%)	1,787 (27%)	4,201 (101%)	1,752 (26.5%)
	All	4,099 (83.1%)	753 (9.1%)	4,043 (82%)	698 (8.4%)	4,579 (92.9%)	1,234 (14.9%)	4,476 (90.8%)	1,130 (13.7%)
NOV	W	-1,581 (-11.1%)	-3,336 (-20.9%)	-1,529 (-10.7%)	-3,284 (-20.5%)	1,937 (13.6%)	182 (1.1%)	1,704 (12%)	-51 (-0.3%)
	AN	-2,386 (-24.6%)	-4,231 (-36.7%)	-2,208 (-22.8%)	-4,053 (-35.2%)	1,317 (13.6%)	-528 (-4.6%)	1,530 (15.8%)	-315 (-2.7%)
	BN	-1,276 (-21.8%)	-4,093 (-47.1%)	-803 (-13.7%)	-3,620 (-41.7%)	2,400 (40.9%)	-417 (-4.8%)	2,808 (47.9%)	-9 (-0.1%)
	D	-1,596 (-23%)	-2,706 (-33.6%)	-1,528 (-22%)	-2,638 (-32.8%)	970 (14%)	-140 (-1.7%)	1,154 (16.6%)	44 (0.6%)
	C	-699 (-13.9%)	-1,379 (-24.1%)	-855 (-17%)	-1,536 (-26.8%)	719 (14.3%)	39 (0.7%)	986 (19.5%)	306 (5.3%)
	All	-1,521 (-16.5%)	-3,171 (-29.2%)	-1,406 (-15.3%)	-3,056 (-28.2%)	1,535 (16.7%)	-116 (-1.1%)	1,641 (17.9%)	-9 (-0.1%)
DEC	W	-1,258 (-2.6%)	1,737 (3.8%)	386 (0.8%)	3,380 (7.5%)	-4,172 (-8.7%)	-1,178 (-2.6%)	-3,255 (-6.8%)	-261 (-0.6%)
	AN	1,921 (10.7%)	817 (4.3%)	482 (2.7%)	-622 (-3.3%)	1,115 (6.2%)	10 (0.1%)	412 (2.3%)	-693 (-3.6%)
	BN	1,204 (10.1%)	923 (7.5%)	893 (7.5%)	612 (5%)	255 (2.1%)	-26 (-0.2%)	40 (0.3%)	-241 (-2%)
	D	916 (10.3%)	972 (11%)	636 (7.2%)	692 (7.8%)	626 (7%)	682 (7.7%)	622 (7%)	678 (7.7%)
	C	1,317 (23.8%)	288 (4.4%)	1,154 (20.9%)	124 (1.9%)	899 (16.3%)	-130 (-2%)	458 (8.3%)	-572 (-8.7%)
	All	482 (2.1%)	1,083 (4.9%)	654 (2.9%)	1,255 (5.7%)	-847 (-3.7%)	-246 (-1.1%)	-762 (-3.4%)	-160 (-0.7%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.4.2.5 San Joaquin River at Vernalis**

2 **Table 33. Mean Monthly Flows (cfs) for Model Scenarios in the San Joaquin River at Vernalis,**
 3 **Year-Round**

Alternative 4: In Delta—San Joaquin River at Vernalis							
Month	WYT ^a	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
JAN	W	9,089	9,681	9,714	9,723	9,675	9,733
	AN	5,447	6,011	5,997	6,012	6,037	6,058
	BN	2,326	2,220	2,195	2,327	2,207	2,294
	D	2,270	2,202	2,222	2,235	2,266	2,212
	C	1,667	1,592	1,592	1,592	1,572	1,592
	All	4,777	5,018	5,024	5,053	5,025	5,056
FEB	W	12,750	13,191	13,178	13,192	13,182	13,196
	AN	6,965	6,721	6,677	6,765	6,701	6,731
	BN	2,983	2,841	2,795	2,781	2,841	2,803
	D	2,590	2,269	2,245	2,245	2,245	2,245
	C	2,120	1,941	1,942	1,942	1,942	1,942
	All	6,388	6,361	6,338	6,357	6,351	6,355
MAR	W	14,374	15,235	15,246	15,235	15,236	15,242
	AN	6,284	6,364	6,365	6,365	6,365	6,365
	BN	2,949	2,476	2,476	2,476	2,476	2,476
	D	2,479	2,146	2,147	2,146	2,146	2,146
	C	1,813	1,688	1,688	1,687	1,688	1,687
	All	6,648	6,763	6,766	6,763	6,763	6,765
APR	W	11,955	12,457	12,450	12,459	12,460	12,448
	AN	6,014	6,042	6,043	6,043	6,042	6,043
	BN	4,490	3,922	3,924	3,924	3,923	3,923
	D	3,656	3,112	3,113	3,112	3,112	3,110
	C	1,983	1,796	1,796	1,795	1,796	1,794
	All	6,351	6,291	6,289	6,291	6,291	6,287
MAY	W	12,109	12,632	12,634	12,633	12,633	12,637
	AN	5,381	5,092	5,093	5,095	5,092	5,093
	BN	4,074	3,657	3,661	3,660	3,659	3,658
	D	3,308	2,823	2,825	2,824	2,823	2,821
	C	1,965	1,798	1,799	1,798	1,797	1,796
	All	6,148	6,069	6,071	6,070	6,069	6,070
JUN	W	11,058	6,820	6,822	6,825	6,820	6,824
	AN	2,965	2,678	2,680	2,681	2,679	2,680
	BN	2,051	1,870	1,876	1,874	1,873	1,871
	D	1,537	1,291	1,295	1,294	1,292	1,290
	C	1,020	956	957	953	956	952
	All	4,583	3,206	3,209	3,209	3,207	3,207
JUL	W	7,654	4,345	4,350	4,349	4,347	4,347
	AN	1,958	1,801	1,806	1,807	1,804	1,805
	BN	1,491	1,381	1,392	1,389	1,386	1,384
	D	1,296	1,100	1,107	1,104	1,101	1,097
	C	898	858	861	857	858	854
	All	3,239	2,184	2,190	2,188	2,186	2,184

Alternative 4: In Delta—San Joaquin River at Vernalis							
Month	WYT^a	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
AUG	W	3,539	2,645	2,648	2,648	2,646	2,646
	AN	2,000	1,699	1,703	1,703	1,702	1,702
	BN	1,460	1,375	1,383	1,381	1,378	1,377
	D	1,375	1,225	1,230	1,228	1,226	1,224
	C	1,007	987	988	985	987	984
	All	2,072	1,710	1,714	1,713	1,712	1,711
SEP	W	3,519	3,127	3,129	3,128	3,128	3,128
	AN	2,355	2,164	2,166	2,166	2,166	2,166
	BN	1,829	1,748	1,752	1,751	1,750	1,749
	D	1,796	1,643	1,645	1,644	1,643	1,642
	C	1,402	1,378	1,380	1,380	1,379	1,380
	All	2,338	2,144	2,146	2,146	2,145	2,145
OCT	W	2,759	2,726	2,682	2,727	2,712	2,743
	AN	2,745	2,595	2,596	2,596	2,595	2,595
	BN	2,502	2,348	2,349	2,348	2,348	2,348
	D	2,945	2,790	2,791	2,791	2,791	2,791
	C	2,213	2,031	2,032	2,032	2,031	2,031
	All	2,638	2,515	2,503	2,516	2,511	2,520
NOV	W	2,534	2,411	2,416	2,404	2,418	2,404
	AN	3,182	3,193	3,170	3,154	3,123	3,203
	BN	2,150	1,997	1,997	1,997	1,997	1,997
	D	2,272	2,217	2,253	2,250	2,253	2,250
	C	1,968	1,898	1,898	1,898	1,898	1,898
	All	2,448	2,367	2,370	2,363	2,361	2,372
DEC	W	4,370	4,504	4,555	4,525	4,492	4,510
	AN	4,711	4,567	4,642	4,593	4,643	4,582
	BN	2,182	2,065	2,083	2,083	2,075	2,083
	D	2,129	2,166	2,168	2,186	2,186	2,168
	C	1,729	1,694	1,681	1,684	1,683	1,681
	All	3,219	3,211	3,241	3,226	3,225	3,216

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 34. Differences^a (Percent Differences) between Pairs of Model Scenarios in the San Joaquin**
 2 **River at the Delta, Year-Round**

Alternative 4: In Delta—San Joaquin River at the Delta									
Month	WYT ^b	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
JAN	W	625 (6.9%)	33 (0.3%)	634 (7%)	42 (0.4%)	586 (6.4%)	-7 (-0.1%)	644 (7.1%)	52 (0.5%)
	AN	550 (10.1%)	-14 (-0.2%)	565 (10.4%)	2 (0%)	590 (10.8%)	26 (0.4%)	611 (11.2%)	47 (0.8%)
	BN	-131 (-5.6%)	-25 (-1.1%)	1 (0.1%)	107 (4.8%)	-119 (-5.1%)	-13 (-0.6%)	-32 (-1.4%)	74 (3.3%)
	D	-48 (-2.1%)	20 (0.9%)	-36 (-1.6%)	33 (1.5%)	-4 (-0.2%)	65 (2.9%)	-59 (-2.6%)	10 (0.5%)
	C	-76 (-4.5%)	0 (0%)	-76 (-4.5%)	0 (0%)	-95 (-5.7%)	-19 (-1.2%)	-76 (-4.5%)	0 (0%)
	All	247 (5.2%)	6 (0.1%)	276 (5.8%)	35 (0.7%)	248 (5.2%)	8 (0.2%)	279 (5.8%)	38 (0.8%)
FEB	W	428 (3.4%)	-13 (-0.1%)	442 (3.5%)	1 (0%)	432 (3.4%)	-9 (-0.1%)	446 (3.5%)	5 (0%)
	AN	-288 (-4.1%)	-44 (-0.7%)	-200 (-2.9%)	44 (0.7%)	-264 (-3.8%)	-20 (-0.3%)	-234 (-3.4%)	10 (0.1%)
	BN	-188 (-6.3%)	-46 (-1.6%)	-201 (-6.8%)	-59 (-2.1%)	-141 (-4.7%)	1 (0%)	-179 (-6%)	-37 (-1.3%)
	D	-345 (-13.3%)	-24 (-1.1%)	-345 (-13.3%)	-24 (-1%)	-345 (-13.3%)	-24 (-1.1%)	-345 (-13.3%)	-24 (-1.1%)
	C	-178 (-8.4%)	1 (0.1%)	-178 (-8.4%)	1 (0.1%)	-178 (-8.4%)	1 (0.1%)	-178 (-8.4%)	1 (0.1%)
	All	-50 (-0.8%)	-23 (-0.4%)	-31 (-0.5%)	-4 (-0.1%)	-37 (-0.6%)	-10 (-0.2%)	-33 (-0.5%)	-6 (-0.1%)
MAR	W	872 (6.1%)	10 (0.1%)	861 (6%)	0 (0%)	861 (6%)	0 (0%)	868 (6%)	7 (0%)
	AN	81 (1.3%)	0 (0%)	81 (1.3%)	0 (0%)	80 (1.3%)	0 (0%)	81 (1.3%)	0 (0%)
	BN	-473 (-16%)	0 (0%)	-473 (-16%)	0 (0%)	-473 (-16%)	0 (0%)	-473 (-16%)	0 (0%)
	D	-333 (-13.4%)	0 (0%)	-333 (-13.4%)	0 (0%)	-333 (-13.4%)	0 (0%)	-333 (-13.4%)	0 (0%)
	C	-125 (-6.9%)	0 (0%)	-126 (-6.9%)	-1 (0%)	-125 (-6.9%)	0 (0%)	-126 (-7%)	-1 (0%)
	All	119 (1.8%)	3 (0%)	116 (1.7%)	0 (0%)	116 (1.7%)	0 (0%)	117 (1.8%)	2 (0%)
APR	W	495 (4.1%)	-7 (-0.1%)	504 (4.2%)	2 (0%)	505 (4.2%)	3 (0%)	493 (4.1%)	-9 (-0.1%)
	AN	29 (0.5%)	0 (0%)	29 (0.5%)	0 (0%)	28 (0.5%)	0 (0%)	28 (0.5%)	0 (0%)
	BN	-566 (-12.6%)	1 (0%)	-567 (-12.6%)	1 (0%)	-568 (-12.6%)	0 (0%)	-568 (-12.6%)	0 (0%)
	D	-544 (-14.9%)	1 (0%)	-545 (-14.9%)	0 (0%)	-545 (-14.9%)	0 (0%)	-546 (-14.9%)	-1 (0%)
	C	-187 (-9.4%)	0 (0%)	-188 (-9.5%)	-1 (0%)	-187 (-9.4%)	0 (0%)	-189 (-9.5%)	-2 (-0.1%)
	All	-62 (-1%)	-2 (0%)	-60 (-0.9%)	1 (0%)	-60 (-0.9%)	1 (0%)	-64 (-1%)	-3 (-0.1%)

Alternative 4: In Delta—San Joaquin River at the Delta									
Month	WYT ^b	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
MAY	W	525 (4.3%)	2 (0%)	524 (4.3%)	1 (0%)	524 (4.3%)	1 (0%)	528 (4.4%)	5 (0%)
	AN	-289 (-5.4%)	1 (0%)	-286 (-5.3%)	3 (0.1%)	-289 (-5.4%)	0 (0%)	-289 (-5.4%)	1 (0%)
	BN	-412 (-10.1%)	5 (0.1%)	-414 (-10.2%)	3 (0.1%)	-415 (-10.2%)	2 (0.1%)	-416 (-10.2%)	1 (0%)
	D	-483 (-14.6%)	3 (0.1%)	-484 (-14.6%)	1 (0.1%)	-485 (-14.7%)	1 (0%)	-487 (-14.7%)	-1 (0%)
	C	-166 (-8.4%)	1 (0.1%)	-167 (-8.5%)	0 (0%)	-168 (-8.5%)	-1 (0%)	-169 (-8.6%)	-2 (-0.1%)
	All	-77 (-1.3%)	2 (0%)	-77 (-1.3%)	2 (0%)	-78 (-1.3%)	1 (0%)	-78 (-1.3%)	1 (0%)
JUN	W	-4,236 (-38.3%)	1 (0%)	-4,233 (-38.3%)	5 (0.1%)	-4,238 (-38.3%)	0 (0%)	-4,234 (-38.3%)	4 (0.1%)
	AN	-284 (-9.6%)	2 (0.1%)	-284 (-9.6%)	3 (0.1%)	-285 (-9.6%)	2 (0.1%)	-284 (-9.6%)	2 (0.1%)
	BN	-175 (-8.5%)	6 (0.3%)	-176 (-8.6%)	5 (0.2%)	-178 (-8.7%)	3 (0.2%)	-180 (-8.8%)	1 (0.1%)
	D	-242 (-15.7%)	4 (0.3%)	-243 (-15.8%)	3 (0.3%)	-246 (-16%)	1 (0.1%)	-247 (-16.1%)	-1 (-0.1%)
	C	-63 (-6.2%)	1 (0.1%)	-67 (-6.6%)	-2 (-0.2%)	-64 (-6.3%)	0 (0%)	-68 (-6.7%)	-3 (-0.3%)
	All	-1,374 (-30%)	3 (0.1%)	-1,374 (-30%)	3 (0.1%)	-1,376 (-30%)	1 (0%)	-1,376 (-30%)	1 (0%)
JUL	W	-3,304 (-43.2%)	5 (0.1%)	-3,305 (-43.2%)	4 (0.1%)	-3,307 (-43.2%)	2 (0.1%)	-3,307 (-43.2%)	1 (0%)
	AN	-152 (-7.8%)	5 (0.3%)	-151 (-7.7%)	6 (0.3%)	-153 (-7.8%)	3 (0.2%)	-152 (-7.8%)	4 (0.2%)
	BN	-99 (-6.6%)	11 (0.8%)	-102 (-6.8%)	9 (0.6%)	-105 (-7.1%)	5 (0.4%)	-107 (-7.2%)	3 (0.2%)
	D	-189 (-14.6%)	7 (0.6%)	-191 (-14.8%)	4 (0.4%)	-194 (-15%)	1 (0.1%)	-198 (-15.3%)	-3 (-0.2%)
	C	-37 (-4.1%)	3 (0.3%)	-41 (-4.6%)	-1 (-0.1%)	-40 (-4.4%)	0 (0.1%)	-44 (-5%)	-4 (-0.5%)
	All	-1,050 (-32.4%)	6 (0.3%)	-1,051 (-32.5%)	4 (0.2%)	-1,053 (-32.5%)	2 (0.1%)	-1,055 (-32.6%)	0 (0%)
AUG	W	-891 (-25.2%)	3 (0.1%)	-891 (-25.2%)	3 (0.1%)	-892 (-25.2%)	2 (0.1%)	-893 (-25.2%)	1 (0%)
	AN	-298 (-14.9%)	3 (0.2%)	-297 (-14.9%)	4 (0.2%)	-299 (-14.9%)	2 (0.1%)	-298 (-14.9%)	3 (0.2%)
	BN	-77 (-5.3%)	8 (0.6%)	-79 (-5.4%)	6 (0.5%)	-81 (-5.6%)	4 (0.3%)	-83 (-5.7%)	2 (0.2%)
	D	-145 (-10.6%)	4 (0.4%)	-146 (-10.6%)	3 (0.3%)	-149 (-10.8%)	1 (0.1%)	-151 (-11%)	-1 (-0.1%)
	C	-19 (-1.9%)	1 (0.1%)	-23 (-2.3%)	-3 (-0.3%)	-20 (-2%)	0 (0%)	-24 (-2.4%)	-4 (-0.4%)
	All	-358 (-17.3%)	4 (0.2%)	-359 (-17.3%)	3 (0.2%)	-360 (-17.4%)	2 (0.1%)	-361 (-17.4%)	0 (0%)

Alternative 4: In Delta—San Joaquin River at the Delta									
Month	WYT ^b	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
SEP	W	-390 (-11.1%)	2 (0.1%)	-390 (-11.1%)	1 (0%)	-391 (-11.1%)	1 (0%)	-391 (-11.1%)	1 (0%)
	AN	-189 (-8%)	2 (0.1%)	-188 (-8%)	2 (0.1%)	-189 (-8%)	1 (0.1%)	-189 (-8%)	2 (0.1%)
	BN	-77 (-4.2%)	4 (0.2%)	-78 (-4.3%)	3 (0.2%)	-79 (-4.3%)	2 (0.1%)	-80 (-4.4%)	1 (0.1%)
	D	-151 (-8.4%)	2 (0.1%)	-152 (-8.5%)	2 (0.1%)	-153 (-8.5%)	0 (0%)	-154 (-8.6%)	0 (0%)
	C	-22 (-1.6%)	3 (0.2%)	-22 (-1.6%)	2 (0.2%)	-23 (-1.7%)	1 (0.1%)	-23 (-1.6%)	2 (0.1%)
	All	-192 (-8.2%)	2 (0.1%)	-192 (-8.2%)	2 (0.1%)	-193 (-8.2%)	1 (0%)	-193 (-8.2%)	1 (0%)
OCT	W	-78 (-2.8%)	-44 (-1.6%)	-33 (-1.2%)	1 (0%)	-47 (-1.7%)	-14 (-0.5%)	-17 (-0.6%)	17 (0.6%)
	AN	-149 (-5.4%)	1 (0%)	-149 (-5.4%)	1 (0%)	-150 (-5.4%)	0 (0%)	-150 (-5.5%)	0 (0%)
	BN	-153 (-6.1%)	1 (0%)	-154 (-6.1%)	1 (0%)	-154 (-6.1%)	0 (0%)	-154 (-6.1%)	0 (0%)
	D	-153 (-5.2%)	1 (0%)	-154 (-5.2%)	1 (0%)	-153 (-5.2%)	1 (0%)	-154 (-5.2%)	1 (0%)
	C	-181 (-8.2%)	1 (0%)	-181 (-8.2%)	1 (0%)	-182 (-8.2%)	0 (0%)	-182 (-8.2%)	0 (0%)
	All	-136 (-5.1%)	-12 (-0.5%)	-123 (-4.7%)	1 (0%)	-127 (-4.8%)	-4 (-0.1%)	-118 (-4.5%)	5 (0.2%)
NOV	W	-118 (-4.7%)	4 (0.2%)	-130 (-5.1%)	-8 (-0.3%)	-116 (-4.6%)	6 (0.3%)	-129 (-5.1%)	-7 (-0.3%)
	AN	-12 (-0.4%)	-23 (-0.7%)	-28 (-0.9%)	-39 (-1.2%)	-59 (-1.8%)	-70 (-2.2%)	21 (0.7%)	10 (0.3%)
	BN	-153 (-7.1%)	0 (0%)	-154 (-7.1%)	0 (0%)	-154 (-7.1%)	0 (0%)	-154 (-7.1%)	0 (0%)
	D	-19 (-0.8%)	36 (1.6%)	-22 (-1%)	33 (1.5%)	-19 (-0.8%)	35 (1.6%)	-22 (-1%)	33 (1.5%)
	C	-70 (-3.5%)	0 (0%)	-70 (-3.6%)	0 (0%)	-70 (-3.6%)	0 (0%)	-70 (-3.6%)	0 (0%)
	All	-78 (-3.2%)	2 (0.1%)	-85 (-3.5%)	-5 (-0.2%)	-86 (-3.5%)	-6 (-0.3%)	-75 (-3.1%)	5 (0.2%)
DEC	W	185 (4.2%)	51 (1.1%)	155 (3.5%)	21 (0.5%)	122 (2.8%)	-12 (-0.3%)	140 (3.2%)	6 (0.1%)
	AN	-69 (-1.5%)	75 (1.6%)	-118 (-2.5%)	26 (0.6%)	-68 (-1.4%)	76 (1.7%)	-129 (-2.7%)	15 (0.3%)
	BN	-99 (-4.5%)	18 (0.9%)	-99 (-4.5%)	18 (0.9%)	-107 (-4.9%)	10 (0.5%)	-99 (-4.5%)	19 (0.9%)
	D	39 (1.8%)	2 (0.1%)	57 (2.7%)	20 (0.9%)	57 (2.7%)	20 (0.9%)	39 (1.8%)	2 (0.1%)
	C	-48 (-2.8%)	-13 (-0.8%)	-45 (-2.6%)	-10 (-0.6%)	-46 (-2.7%)	-11 (-0.6%)	-48 (-2.8%)	-13 (-0.8%)
	All	22 (0.7%)	30 (0.9%)	7 (0.2%)	15 (0.5%)	5 (0.2%)	14 (0.4%)	-3 (-0.1%)	6 (0.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.4.2.6 Mokelumne River at the Delta**

2 **Table 35. Mean Monthly Flows (cfs) for Model Scenarios in the Mokelumne River at the Delta,**
 3 **Year-Round**

Alternative 4: In Delta—Mokelumne River at the Delta							
Month	WYT ^a	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
JAN	W	3,071	3,634	3,634	3,634	3,634	3,634
	AN	1,707	1,876	1,876	1,876	1,876	1,876
	BN	597	617	617	617	617	617
	D	495	493	493	493	493	493
	C	280	281	281	281	281	281
	All	1,460	1,660	1,660	1,660	1,660	1,660
FEB	W	3,290	3,781	3,781	3,781	3,781	3,781
	AN	2,525	2,913	2,913	2,913	2,913	2,913
	BN	1,011	1,035	1,035	1,035	1,035	1,035
	D	695	678	678	678	678	678
	C	427	441	442	442	442	442
	All	1,809	2,032	2,033	2,033	2,033	2,033
MAR	W	3,179	3,336	3,336	3,336	3,336	3,336
	AN	1,582	1,639	1,639	1,639	1,639	1,639
	BN	1,181	1,140	1,140	1,140	1,140	1,140
	D	754	691	691	691	691	691
	C	595	580	580	580	580	580
	All	1,662	1,700	1,700	1,700	1,700	1,700
APR	W	2,819	2,694	2,694	2,694	2,694	2,694
	AN	1,619	1,424	1,424	1,424	1,424	1,424
	BN	1,243	1,068	1,068	1,068	1,068	1,068
	D	623	550	550	550	550	550
	C	340	311	311	311	311	311
	All	1,503	1,384	1,384	1,384	1,384	1,384
MAY	W	3,170	2,885	2,885	2,885	2,885	2,885
	AN	1,439	1,179	1,179	1,179	1,179	1,179
	BN	976	812	812	812	812	812
	D	406	333	333	333	333	333
	C	181	170	170	170	170	170
	All	1,463	1,289	1,289	1,289	1,289	1,289
JUN	W	1,755	1,415	1,415	1,415	1,415	1,415
	AN	851	631	631	631	631	631
	BN	471	366	366	366	366	366
	D	93	76	76	76	76	76
	C	52	44	44	44	44	44
	All	779	616	616	616	616	616
JUL	W	772	469	469	469	469	469
	AN	347	167	167	167	167	167
	BN	123	70	70	70	70	70
	D	7	6	6	6	6	6
	C	3	3	3	3	3	3
	All	315	183	183	183	183	183

Alternative 4: In Delta—Mokelumne River at the Delta							
Month	WYT^a	EXISTING CONDITIONS	NAA	A4_LL1			
				H1	H2	H3	H4
AUG	W	703	346	346	346	346	346
	AN	328	216	216	216	216	216
	BN	112	71	71	71	71	71
	D	4	4	4	4	4	4
	C	2	2	2	2	2	2
	All	289	156	156	156	156	156
SEP	W	702	497	497	497	497	497
	AN	333	259	259	259	259	259
	BN	114	91	91	91	91	91
	D	10	9	9	9	9	9
	C	5	5	5	5	5	5
	All	291	213	213	213	213	213
OCT	W	161	147	147	147	147	147
	AN	178	180	180	180	180	180
	BN	154	144	144	144	144	144
	D	180	160	160	160	160	160
	C	117	123	123	123	123	123
	All	158	150	150	150	150	150
NOV	W	487	431	431	431	431	431
	AN	912	855	855	855	855	855
	BN	347	301	301	301	301	301
	D	380	327	327	327	327	327
	C	195	186	186	186	186	186
	All	474	429	429	429	429	429
DEC	W	1,504	1,732	1,732	1,732	1,732	1,732
	AN	1,411	1,628	1,628	1,628	1,628	1,628
	BN	447	472	472	472	472	472
	D	383	374	374	374	374	374
	C	204	209	209	209	209	209
	All	887	999	999	999	999	999

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 36. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Mokelumne**
 2 **River at the Delta, Year-Round**

Alternative 4: In Delta—Mokelumne River at the Delta									
Month	WYT ^b	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
JAN	W	563 (18.3%)	0 (0%)	563 (18.3%)	0 (0%)	563 (18.3%)	0 (0%)	563 (18.3%)	0 (0%)
	AN	169 (9.9%)	0 (0%)	169 (9.9%)	0 (0%)	169 (9.9%)	0 (0%)	169 (9.9%)	0 (0%)
	BN	21 (3.4%)	0 (0%)	21 (3.4%)	0 (0%)	21 (3.4%)	0 (0%)	21 (3.4%)	0 (0%)
	D	-2 (-0.5%)	0 (0%)	-2 (-0.5%)	0 (0%)	-2 (-0.5%)	0 (0%)	-2 (-0.5%)	0 (0%)
	C	1 (0.3%)	0 (0%)	1 (0.3%)	0 (0%)	1 (0.3%)	0 (0%)	1 (0.3%)	0 (0%)
	All	201 (13.8%)	0 (0%)	201 (13.8%)	0 (0%)	201 (13.8%)	0 (0%)	201 (13.8%)	0 (0%)
FEB	W	491 (14.9%)	0 (0%)	491 (14.9%)	0 (0%)	491 (14.9%)	0 (0%)	491 (14.9%)	0 (0%)
	AN	388 (15.3%)	0 (0%)	388 (15.3%)	0 (0%)	388 (15.3%)	0 (0%)	388 (15.3%)	0 (0%)
	BN	24 (2.4%)	0 (0%)	24 (2.4%)	0 (0%)	24 (2.4%)	0 (0%)	24 (2.4%)	0 (0%)
	D	-17 (-2.4%)	0 (0%)	-17 (-2.4%)	0 (0%)	-17 (-2.4%)	0 (0%)	-17 (-2.4%)	0 (0%)
	C	15 (3.5%)	0 (0%)	15 (3.5%)	0 (0%)	15 (3.5%)	0 (0%)	15 (3.5%)	0 (0%)
	All	223 (12.3%)	0 (0%)	223 (12.3%)	0 (0%)	223 (12.3%)	0 (0%)	223 (12.3%)	0 (0%)
MAR	W	158 (5%)	0 (0%)	158 (5%)	0 (0%)	158 (5%)	0 (0%)	158 (5%)	0 (0%)
	AN	57 (3.6%)	0 (0%)	57 (3.6%)	0 (0%)	57 (3.6%)	0 (0%)	57 (3.6%)	0 (0%)
	BN	-41 (-3.4%)	0 (0%)	-41 (-3.4%)	0 (0%)	-41 (-3.4%)	0 (0%)	-41 (-3.4%)	0 (0%)
	D	-63 (-8.3%)	0 (0%)	-63 (-8.3%)	0 (0%)	-63 (-8.3%)	0 (0%)	-63 (-8.3%)	0 (0%)
	C	-15 (-2.5%)	0 (0%)	-15 (-2.5%)	0 (0%)	-15 (-2.5%)	0 (0%)	-15 (-2.5%)	0 (0%)
	All	38 (2.3%)	0 (0%)	38 (2.3%)	0 (0%)	38 (2.3%)	0 (0%)	38 (2.3%)	0 (0%)
APR	W	-125 (-4.4%)	0 (0%)	-125 (-4.4%)	0 (0%)	-125 (-4.4%)	0 (0%)	-125 (-4.4%)	0 (0%)
	AN	-194 (-12%)	0 (0%)	-194 (-12%)	0 (0%)	-194 (-12%)	0 (0%)	-194 (-12%)	0 (0%)
	BN	-175 (-14.1%)	0 (0%)	-175 (-14.1%)	0 (0%)	-175 (-14.1%)	0 (0%)	-175 (-14.1%)	0 (0%)
	D	-73 (-11.7%)	0 (0%)	-73 (-11.7%)	0 (0%)	-73 (-11.7%)	0 (0%)	-73 (-11.7%)	0 (0%)
	C	-29 (-8.6%)	0 (0%)	-29 (-8.6%)	0 (0%)	-29 (-8.6%)	0 (0%)	-29 (-8.6%)	0 (0%)
	All	-120 (-8%)	0 (0%)	-120 (-8%)	0 (0%)	-120 (-8%)	0 (0%)	-120 (-8%)	0 (0%)
MAY	W	-284 (-9%)	0 (0%)	-284 (-9%)	0 (0%)	-284 (-9%)	0 (0%)	-284 (-9%)	0 (0%)
	AN	-260 (-18.1%)	0 (0%)	-260 (-18.1%)	0 (0%)	-260 (-18.1%)	0 (0%)	-260 (-18.1%)	0 (0%)
	BN	-164 (-16.8%)	0 (0%)	-164 (-16.8%)	0 (0%)	-164 (-16.8%)	0 (0%)	-164 (-16.8%)	0 (0%)
	D	-72 (-17.8%)	0 (0%)	-72 (-17.8%)	0 (0%)	-72 (-17.8%)	0 (0%)	-72 (-17.8%)	0 (0%)
	C	-11 (-6.1%)	0 (0%)	-11 (-6.1%)	0 (0%)	-11 (-6.1%)	0 (0%)	-11 (-6.1%)	0 (0%)
	All	-174 (-11.9%)	0 (0%)	-174 (-11.9%)	0 (0%)	-174 (-11.9%)	0 (0%)	-174 (-11.9%)	0 (0%)
JUN	W	-339 (-19.3%)	0 (0%)	-339 (-19.3%)	0 (0%)	-339 (-19.3%)	0 (0%)	-339 (-19.3%)	0 (0%)
	AN	-220 (-25.8%)	0 (0%)	-220 (-25.8%)	0 (0%)	-220 (-25.8%)	0 (0%)	-220 (-25.8%)	0 (0%)
	BN	-105 (-22.3%)	0 (0%)	-105 (-22.3%)	0 (0%)	-105 (-22.3%)	0 (0%)	-105 (-22.3%)	0 (0%)
	D	-17 (-18.8%)	0 (0%)	-17 (-18.8%)	0 (0%)	-17 (-18.8%)	0 (0%)	-17 (-18.8%)	0 (0%)
	C	-7 (-14.5%)	0 (0%)	-7 (-14.5%)	0 (0%)	-7 (-14.5%)	0 (0%)	-7 (-14.5%)	0 (0%)
	All	-163 (-20.9%)	0 (0%)	-163 (-20.9%)	0 (0%)	-163 (-20.9%)	0 (0%)	-163 (-20.9%)	0 (0%)

Alternative 4: In Delta—Mokelumne River at the Delta									
Month	WYT ^b	EXISTING CONDITIONS vs. H1	NAA vs. H1	EXISTING CONDITIONS vs. H2	NAA vs. H2	EXISTING CONDITIONS vs. H3	NAA vs. H3	EXISTING CONDITIONS vs. H4	NAA vs. H4
JUL	W	-303 (-39.3%)	0 (0%)	-303 (-39.3%)	0 (0%)	-303 (-39.3%)	0 (0%)	-303 (-39.3%)	0 (0%)
	AN	-180 (-51.8%)	0 (0%)	-180 (-51.8%)	0 (0%)	-180 (-51.8%)	0 (0%)	-180 (-51.8%)	0 (0%)
	BN	-54 (-43.4%)	0 (0%)	-54 (-43.4%)	0 (0%)	-54 (-43.4%)	0 (0%)	-54 (-43.4%)	0 (0%)
	D	0 (-2.9%)	0 (0%)	0 (-2.9%)	0 (0%)	0 (-2.9%)	0 (0%)	0 (-2.9%)	0 (0%)
	C	0 (-6.7%)	0 (0%)	0 (-6.7%)	0 (0%)	0 (-6.7%)	0 (0%)	0 (-6.7%)	0 (0%)
	All	-132 (-42%)	0 (0%)	-132 (-42%)	0 (0%)	-132 (-42%)	0 (0%)	-132 (-42%)	0 (0%)
AUG	W	-357 (-50.8%)	0 (0%)	-357 (-50.8%)	0 (0%)	-357 (-50.8%)	0 (0%)	-357 (-50.8%)	0 (0%)
	AN	-113 (-34.3%)	0 (0%)	-113 (-34.3%)	0 (0%)	-113 (-34.3%)	0 (0%)	-113 (-34.3%)	0 (0%)
	BN	-41 (-36.5%)	0 (0%)	-41 (-36.5%)	0 (0%)	-41 (-36.5%)	0 (0%)	-41 (-36.5%)	0 (0%)
	D	0 (-2.2%)	0 (0%)	0 (-2.2%)	0 (0%)	0 (-2.2%)	0 (0%)	0 (-2.2%)	0 (0%)
	C	0 (-1.9%)	0 (0%)	0 (-1.9%)	0 (0%)	0 (-1.9%)	0 (0%)	0 (-1.9%)	0 (0%)
	All	-133 (-46.1%)	0 (0%)	-133 (-46.1%)	0 (0%)	-133 (-46.1%)	0 (0%)	-133 (-46.1%)	0 (0%)
SEP	W	-205 (-29.3%)	0 (0%)	-205 (-29.3%)	0 (0%)	-205 (-29.3%)	0 (0%)	-205 (-29.3%)	0 (0%)
	AN	-74 (-22.3%)	0 (0%)	-74 (-22.3%)	0 (0%)	-74 (-22.3%)	0 (0%)	-74 (-22.3%)	0 (0%)
	BN	-24 (-20.7%)	0 (0%)	-24 (-20.7%)	0 (0%)	-24 (-20.7%)	0 (0%)	-24 (-20.7%)	0 (0%)
	D	-1 (-9.4%)	0 (0%)	-1 (-9.4%)	0 (0%)	-1 (-9.4%)	0 (0%)	-1 (-9.4%)	0 (0%)
	C	0 (-0.1%)	0 (0%)	0 (-0.1%)	0 (0%)	0 (-0.1%)	0 (0%)	0 (-0.1%)	0 (0%)
	All	-78 (-27%)	0 (0%)	-78 (-27%)	0 (0%)	-78 (-27%)	0 (0%)	-78 (-27%)	0 (0%)
OCT	W	-14 (-8.7%)	0 (0%)	-14 (-8.7%)	0 (0%)	-14 (-8.7%)	0 (0%)	-14 (-8.7%)	0 (0%)
	AN	2 (1%)	0 (0%)	2 (1%)	0 (0%)	2 (1%)	0 (0%)	2 (1%)	0 (0%)
	BN	-10 (-6.6%)	0 (0%)	-10 (-6.6%)	0 (0%)	-10 (-6.6%)	0 (0%)	-10 (-6.6%)	0 (0%)
	D	-20 (-11.2%)	0 (0%)	-20 (-11.2%)	0 (0%)	-20 (-11.2%)	0 (0%)	-20 (-11.2%)	0 (0%)
	C	5 (4.6%)	0 (0%)	5 (4.6%)	0 (0%)	5 (4.6%)	0 (0%)	5 (4.6%)	0 (0%)
	All	-7 (-4.8%)	0 (0%)	-7 (-4.8%)	0 (0%)	-7 (-4.8%)	0 (0%)	-7 (-4.8%)	0 (0%)
NOV	W	-56 (-11.5%)	0 (0%)	-56 (-11.5%)	0 (0%)	-56 (-11.5%)	0 (0%)	-56 (-11.5%)	0 (0%)
	AN	-57 (-6.3%)	0 (0%)	-57 (-6.3%)	0 (0%)	-57 (-6.3%)	0 (0%)	-57 (-6.3%)	0 (0%)
	BN	-46 (-13.3%)	0 (0%)	-46 (-13.3%)	0 (0%)	-46 (-13.3%)	0 (0%)	-46 (-13.3%)	0 (0%)
	D	-53 (-14%)	0 (0%)	-53 (-14%)	0 (0%)	-53 (-14%)	0 (0%)	-53 (-14%)	0 (0%)
	C	-9 (-4.5%)	0 (0%)	-9 (-4.5%)	0 (0%)	-9 (-4.5%)	0 (0%)	-9 (-4.5%)	0 (0%)
	All	-45 (-9.5%)	0 (0%)	-45 (-9.5%)	0 (0%)	-45 (-9.5%)	0 (0%)	-45 (-9.5%)	0 (0%)
DEC	W	228 (15.1%)	0 (0%)	228 (15.1%)	0 (0%)	228 (15.1%)	0 (0%)	228 (15.1%)	0 (0%)
	AN	217 (15.4%)	0 (0%)	217 (15.4%)	0 (0%)	217 (15.4%)	0 (0%)	217 (15.4%)	0 (0%)
	BN	25 (5.5%)	0 (0%)	25 (5.5%)	0 (0%)	25 (5.5%)	0 (0%)	25 (5.5%)	0 (0%)
	D	-10 (-2.5%)	0 (0%)	-10 (-2.5%)	0 (0%)	-10 (-2.5%)	0 (0%)	-10 (-2.5%)	0 (0%)
	C	6 (2.9%)	0 (0%)	6 (2.9%)	0 (0%)	6 (2.9%)	0 (0%)	6 (2.9%)	0 (0%)
	All	112 (12.7%)	0 (0%)	112 (12.7%)	0 (0%)	112 (12.7%)	0 (0%)	112 (12.7%)	0 (0%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

11C.4.3 Comparison of BDCP Alternative 4 Operational Scenario H Series—Outflow Options

As described in Chapter 3, the Alternative 4 operational scenario will be selected based on the decision tree logic, during the period of construction of CM1. Four potential operational scenarios are compared in this section. The operational scenario may include higher spring outflow (higher outflow in March–May than the D-1641 February–June X2 and/or higher fall outflow (higher September–November outflow than D-1641 requirements). The four potential operations are abbreviated as H1, H2, H3, and H4 as illustrated in the matrix below:

Spring Outflow:	D-1641 Feb–Jun X2	Higher Mar–May Outflow
Fall Outflow:		
D-1641 Outflow Limits	H1	H2
Higher Sep–Nov Outflow (in AN and W years)	H3	H4

H1 would use D-1641 outflow (X2) objectives in the spring and the fall months. H2 would use increased March–May outflow in some years with D-1641 outflow in the fall months. H3 would use D-1641 outflow (X2) in the spring and higher September–November outflow requirements (Fall X2) in above normal and wet years. H4 would use increased March–May outflow objectives in some years and Fall X2 outflow requirements in above normal and wet years. The actual BDCP operations will be determined through the decision tree process during construction of the new conveyance facilities. Additional detail is provided in Chapter 3.2.3 *Development of DWR Proposed Project in 2012*.

This section compares the CALSIM results for BDCP Alternative 4 operational scenario H3 with the H4, H1 and H2 variations for both the ELT and LLT timeframes. The CALSIM-simulated differences between the No Action and H3 for the other cases are described for Delta outflow, Delta exports, and for selected reservoirs and river locations. The results are summarized with monthly storage and monthly flow distribution tables (i.e., monthly storage and flow probabilities) and graphs. The changes in outflow are identified in specific months for the different cases; the outflow changes require a combination of export changes and upstream reservoir release (storage) changes. Flows and reservoir storage patterns at many locations are nearly identical for the different cases.

Compared to the H3, H1 is a reduction in the required Delta outflows in September, October and November following wet and above normal years (about 40% of the years). This results in either reduced reservoir releases or increased Delta exports. A large fraction of the reduced Delta outflow requirements result in higher Delta exports compared to H3, although some of the water cannot be exported and therefore contributes to Delta outflow that is sometimes higher than required outflow.

H2 and H4 are both intended to achieve higher Delta outflow in March, April, and May in many years compared to the No Action Alternative, H1, and H3, to benefit longfin smelt. The development of the specific increased outflow goals are described in Chapter 3.6.4.2 *North Delta and South Delta Water Conveyance Operational Criteria–Scenario H*.

11C.4.3.1 Comparison of Delta Outflow and Export Changes

Table 1 provides an annual average summary of the Delta outflow (taf/yr) and the Delta exports (taf/yr) for the four operational cases. H1, H2, and H4 cases were compared to H3 for both the ELT and the LLT timeframe. The average annual outflow and exports for the No Action conditions are also given. The average outflow for the H3_ELТ case was 15,590 taf/yr and the average exports for H3_ELТ was 5,265 taf/yr. The outflows were increased and the exports were decreased by about 550 taf/yr for H4_ELТ compared to H3_ELТ, because the increased outflow in March–May required reduced exports or reduced upstream storage. The spring outflow increased but the fall outflow decreased for H2_ELТ compared to H3_ELТ, so the annual average outflow was increased by about 200 taf/yr and the annual average exports were reduced by about 250 taf/yr compared to H3_ELТ. The spring outflow for H1_ELТ was similar, but the fall outflow decreased in wet and above normal years compared to H3_ELТ. Consequently, the annual average outflow was reduced by about 350 taf/y and the annual average exports were increased by about 325 taf/yr for H1_ELТ compared to H3_ELТ. The largest change in Delta outflow for H4_ELТ of 550 taf/yr was about 3.5% of the average H3_ELТ Delta outflow. The largest change in Delta exports for H4_ELТ of -560 taf/yr was a reduction of 10.5% of H3_ELТ exports.

The average annual Delta outflow was 15,767 taf/yr for H3_ELТ and the average annual exports were 4,945 taf/yr. The comparisons of H1–H4 for the LLТ timeframe were similar to the ELТ timeframe. The outflows were increased by 510 taf/yr and the exports were decreased by about 530 taf/yr for H4_LLТ compared to the H3_LLТ, because the increased outflow in March–May required reduced exports or reduced upstream storage. The spring outflow increased but the fall outflow decreased for H2_LLТ compared to H3_LLТ, so the annual average outflow was increased by about 170 taf/yr and the annual average exports were reduced by about 235 taf/yr compared to H3_LLТ. The spring outflow for H1_LLТ was similar, but the fall outflow decreased in wet and above normal years compared to H3_LLТ. Consequently, the annual average outflow was reduced by about 350 taf/y and the annual average exports were increased by about 310 taf/yr for H1_LLТ compared to H3_LLТ. The largest change in Delta outflow for the H4_LLТ of 510 taf/yr was about 3% of the average Delta outflow. The largest change in Delta exports for H4_LLТ of -530 taf/yr was a reduction of 11% of H3_LLТ.

Table 2 gives the annual summary of H3 Delta outflow (TAF) for the ELТ and LLТ timeframes. Because H2 and H3 change Delta outflow in the months of March–May of some years, the H3 average outflow (cfs) for March–May and the H4 and H2 increases for March–May are given. Because H1 changes outflow in the months of September–November, the H3 average outflow (cfs) for September–November and the H1 reductions for September–November are given. The H2 and H4 increases in outflow are generally in years with moderate outflow, but can be in any water year type. H1 decreases in outflow are in the wet (1) and above normal (2) water years because these are the years with Fall X2 requirements under the 2008 USFWS BiOp.

Figure 1 shows the CALSIM-simulated average March–May outflow for WY 1922–2003 for H3 (purple line) and H4 (light blue line) for the LLТ timeframe (2060). The No Action outflow in March–May was generally 1,000 cfs to 5,000 cfs higher than H3, because the OMR restrictions limit the No Action exports in these months. The average March–May outflow ranged from about 10,000 cfs to more than 100,000 cfs, with an average of 29,196 cfs for H3 and an average of 31,854 cfs for H4. The changes in the average March–May outflow from H3 to H4 are shown at the bottom of the graph, and the changes in the Delta exports during these months are also shown at the bottom of the graph. H4 provided increased outflow of more than 1,500 cfs (5% of average outflow) in about 30 years (35%

1 of the years). The majority (60%) of the increased outflow was provided by reduced exports in these
2 same months; the remainder of the increased outflow was provided by increased reservoir releases
3 compared to H3. For the years with simulated increased March–May outflow, the increases were
4 generally between 5,000 cfs and 10,000 cfs, which is equivalent to a volume of 900 taf to 1,800 taf
5 for the three-month period.

6 Figure 2 shows the CALSIM-simulated average March–May outflow for WY 1922–2003 for H3
7 (purple line) and H2 (light blue line) for the LLT timeframe (2060). The No Action outflow in
8 September–November was generally about the same as H3, because the No Action and H3 include
9 the Fall X2 outflow requirements in above normal and wet years. The average March–May outflow
10 increased from 29,196 cfs for H3 to and an average of 32,113 cfs for H4. The changes in the average
11 March–May outflow from H3 to H2 case are shown at the bottom of the graph, and the changes in
12 the Delta exports during these months are also shown at the bottom of the graph. H2 provided
13 increased outflow that was very similar to H4; changes of more than 1,500 cfs were simulated in
14 about 35 years (42% of the years). The majority (60%) of the increased outflow was provided by
15 reduced exports in these same months; the remainder of the increased outflow was provided by
16 increased reservoir releases compared to H3.

17 Figure 3 shows the average September–November outflow for H1 and H3 for WY 1922–2003 for the
18 LLT timeframe using the purple and light blue lines with the left axis. The average D-1641 required
19 Delta outflow in these three months is about 5,000 cfs for H1, but the Fall X2 requirements for H3
20 increased the average outflow to about 10,000 cfs in above normal years and about 15,000 cfs in wet
21 years. The reduction in Delta outflow during these months and the corresponding increase in Delta
22 exports are shown with the blue and red lines with the right axis. The reduction in the average
23 September–November outflow for H1 was therefore about 5,000 cfs in above normal years, about
24 10,000 cfs in wet years, and there were no changes in Delta outflow for about 60% of the years
25 (below normal, dry, and critical years). The changes in exports during these months were less than
26 half of the changes in outflow; the remainder of the water remained in upstream storage, and was
27 generally released for export in subsequent months.

28 Compared to H3, the annual outflow under H4 was increased by more than 150 taf in about 50% of
29 the years, was increased by more than 500 taf in about 25% of the years, and was increased by more
30 than 1,500 taf in about 15% of the years. The corresponding reductions in annual Delta exports
31 were greater than 500 taf in about 50% of the years, were greater than 750 taf in about 25% of the
32 years, and were greater than 1,000 taf in about 15% of the years. Overall, most of the increased
33 Delta outflow for H4 was achieved with reduced Delta exports (i.e., 531 taf/yr reduced exports with
34 510 taf/yr increased outflow). Some of the increased outflow was obtained directly from reduced
35 exports, while some of the increased outflow was obtained from increased reservoir releases which
36 subsequently caused reduced exports when reservoir releases were reduced.

11C.4.3.2 Comparison of Upstream Reservoir Storage

Figure 4 shows the CALSIM-simulated Shasta Reservoir monthly storage for WY 1994–2003 as an example period and the cumulative distributions of Shasta Reservoir end-of-May and end-of-September (carryover) storage for the No Action compared to the H3, H4, H2 and H1 cases for the LLT timeframe for WY 1922–2003. The H4 operational case did not cause any substantial changes in the Shasta Reservoir storage pattern compared to the H3. The end-of-May storage was full (4,500 taf) in about 20% of the years for each of the five cases. There were very few changes in the end-of-May cumulative distribution (i.e., probability) of storage between the H3 and the H4, H2 or H1 cases for the LLT timeframe. The CALSIM-simulated monthly distribution of end-of-September Shasta Reservoir was slightly higher for the H1 and H2 cases, because of reduced releases for Fall X2 in wet and above normal years (40% of years). There were no other changes in carryover storage for the H4 or H2 cases.

Table 3 gives the CALSIM-simulated monthly distributions of Keswick Dam release flows for the H3 and the changes in the monthly distributions for the H4, H2 and H1 cases for the LLT (2060) timeframe. A review of the changes in the Keswick flows indicates that the H4, H2 and H1 flows were similar to the H3 case in most months. The Keswick flows for the H4 and H2 cases showed a small shift from May and June (reduced by 500 cfs to 1,000 cfs) to August for the H2 case (increased by 750 cfs) and to August and September for the H4 case (increased by 500 cfs to 1,000 cfs). Keswick releases were not increased in the March–May period and did not, therefore, contribute to increased Delta outflow in these months for the H4 and H2 cases. The Keswick flows for the H1 and H2 cases showed a major reduction in September flow in about 40% of the years, with an average flow reduction of about 2,000 cfs for the H4 and H2 cases. The October flows were about the same as the H3, and the November flows were reduced in about 40% of the years, with an average reduction of about 500 cfs. The Keswick flows in December–February were increased in about 25% of the years for the H1 and H2 cases, likely because of increased flood control releases. The Keswick flow reductions in September–November accounted for about 25% of the outflow reductions for the H1 and H2 cases.

Figure 5 shows the Oroville Reservoir storage for WY 1994–2003 as an example period and the cumulative distributions of Oroville Reservoir end-of-May and end-of-September (carryover) storage for the No Action compared to the H3, H4, H2 and H1 cases for the LLT timeframe for WY 1922–2003. There was a much greater range of Oroville Reservoir storage for the different cases than for Shasta storage. Because the Oroville Reservoir inflow (runoff) is high in many years, Oroville Reservoir was refilled to maximum storage in May or June in about 25% of the years. About half of the water for the increased March–May Delta outflow for the H4 and H2 cases was released from Oroville, so that the end-of-May storage was about 500 taf lower for the about half of the years (middle range of storage distribution) for the H4 and H2 cases. The end-of-May storage was nearly identical for the No action, the H3 and the H1 cases. Oroville Reservoir releases for the H4 and H2 cases were reduced in the summer months to ensure end-of-September storage remained similar to the No Action and H3 storage. The carryover storage was actually higher than the No Action and H3 for the H4 and H2 cases, apparently because the summer releases were lower than necessary. The carryover storage for the H1 and H2 cases was higher because these cases do not include the Fall X2 outflow requirements.

1 Table 5 gives the CALSIM-simulated monthly distributions of Feather River flows (below
2 Thermalito) for the H3 and the changes in the monthly distributions for the H4, H2 and H1 for the
3 LLT (2060) timeframe. The Feather River flows for the H4 and H2 cases showed a large increase in
4 April and May (to provide the higher spring outflow), with a corresponding reduction in June, July
5 and August. The April flows were increased at least 750 cfs in about 50% of the years and were
6 increased more than 5,000 cfs in about 25% of the years. The May flows were increased at least 500
7 cfs in about 50% of the years and were increased more than 2,500 cfs in about 25% of the years.
8 Feather River flows were increased by an average of 1,250 cfs for the March–May period, and
9 contributed about half of the increased outflow for the H4 and H2 cases (the remainder of the
10 increased outflow was achieved with export reductions). The Feather River flows for the H4 and H2
11 cases were reduced in the summer months to maintain the No Action and H3 September carryover
12 storage pattern in most years. The Feather River flows for the H1 and H2 cases were reduced in
13 September by more than 3,000 cfs in about 40% of the years. This was about half of the reduced
14 Delta outflow volume for the September–November period for the H1 and H2 cases.

15 Figure 6 shows the Folsom Reservoir storage for WY 1994–2003 as an example period and the
16 cumulative distributions of Folsom Reservoir end-of-May and end-of-September (carryover) storage
17 for the No Action compared to the H3, H4, H2 and H1 cases for the LLT timeframe for WY 1922–
18 2003. Folsom Reservoir operations are generally constrained because of the relatively low storage
19 volume (975 taf maximum) compared to the average annual runoff; very few adjustments in the
20 BDCP operations could be made for the H3 or the H4, H2 or H1 cases. Because the Folsom Reservoir
21 inflow (runoff) is high in many years, Folsom Reservoir was refilled to maximum storage in May or
22 June in about 50% of the years. No additional releases were made from Folsom Reservoir in the
23 March–May period for the H4 and H2 cases. The H1 and H2 cases allowed slightly higher carryover
24 storage in a few years, because releases were reduced by about 1,000 cfs in about 25% of the years.
25 Folsom Reservoir carryover storage was increased by about 50 taf in about 25% of the years for the
26 H1 and H2 cases.

27 Table 6 gives the CALSIM-simulated monthly distributions of American River flows for the H3 case
28 and the changes in the monthly distributions for the H4 and H1 cases for the LLT (2060) timeframe.
29 The American River flows are remarkably constant from February through June, with median flows
30 of 2,250 cfs to 3,250 cfs. There are several upstream reservoirs that provide flow regulation, and
31 Folsom is at flood control capacity in about 50% of the years. The lowest average flows for the
32 February–June period are in May, when the maximum flood control storage increases from 800 taf
33 to 975 taf (more inflow can be stored). A review of the changes in the American River flows
34 indicates that the H4, H2 and H1 flows were very similar to the H3 flows in most months. The
35 American River flows for the H4 and H2 cases showed a decrease of about 500 cfs in May and June
36 for many of the years compared to the H3; therefore Folsom Reservoir did not contribute to
37 increased March–May Delta outflow. The American River flows for the H1 and H2 cases were
38 reduced in September by about 500 cfs to 1,500 cfs in about 25% of the years. This was about 10%
39 of the reduced Delta outflow volume for the September–November period for the H1 and H2 cases.

1 The changes in Delta outflow for higher spring outflow or lower fall outflow were provided by
 2 changes in export and changes in upstream reservoir releases (storage). Although the increased
 3 spring outflow was often greater than 5,000 cfs and the changes in fall outflow were about 10,000
 4 cfs in wet years, the overall seasonal pattern of Delta outflow was not substantially changed in most
 5 years, because the Delta outflow is controlled by the seasonal runoff patterns. These managed
 6 changes in Delta outflow are small relative to the large variations between dry years and wet years.
 7 The CALSIM model results indicate that outflow increases of less than 5,000 cfs were simulated with
 8 reduced exports, without any additional Freeport inflow. Outflow increases of 5,000 cfs to 10,000 cfs
 9 were simulated with reduced exports of about 5,000 cfs and additional Freeport inflows of between
 10 0 cfs and 5,000 cfs. Outflow increases of more than 10,000 cfs were simulated with about half of the
 11 outflow increase from reduced exports and about half of the increase from increased Freeport flow.
 12 Operational rules will be needed for the H4 or H2 cases (if adopted), to reduce the allowable exports
 13 and make additional releases from upstream reservoirs, under specified hydrologic conditions.
 14 These new rules would distinguish the higher spring outflows from the No Action D-1641 X2
 15 outflow requirements in March–May. The operational rules for the H1 case (if adopted) would be
 16 the D-1641 required Delta outflows for September–November.

17 **Table 1. Annual Average Delta Outflow and Delta Export for the BDCP Alternative 4 Operational Cases**

Operational Case	Outflow (TAF/yr)	Outflow Difference Compared to H3 (TAF/yr)	Export (TAF/yr)	Export Difference Compared to H3 (TAF/yr)
NAA_ELT	16,157	567	4,728	-537
H1_ELT	15,239	-351	5,591	326
H2_ELT	15,803	213	5,005	-260
H3_ELT	15,590	0	5,265	0
H4_ELT	16,138	548	4,705	-560
NAA_LLT	16,282	515	4,441	-504
H1_LLT	15,418	-349	5,255	310
H2_LLT	15,937	170	4,710	-235
H3_LLT	15,767	0	4,945	0
H4_LLT	16,277	510	4,414	-531

18

1 **Table 2. Annual Delta Outflow Summary for H3H3 and Changes for the H4H1H1, H2, and H4 Operational Cases for the ELT and LLT Timeframe**

YEAR	WY Type	H3-ELT Annual Outflow (TAF)	H3-ELT Mar-May Outflow (cfs)	H2-ELT Increased Mar-May Outflow (cfs)	H4-ELT Increased Mar-May Outflow (cfs)	H3-ELT Sep-Nov Outflow (cfs)	H1-ELT Reduced Sep-Nov Outflow (cfs)	H3-LLT Annual Outflow (TAF)	H3-LLT Mar-May Outflow (cfs)	H2-LLT Increased Mar-May Outflow (cfs)	H4-LLT Increased Mar-May Outflow (cfs)	H3-LLT Sep-Nov Outflow (cfs)	H1-LLT Reduced Sep-Nov Outflow (cfs)
1922	2	15,373	36,667	-12	-12	13,906	8,730	15,961	36,701	-221	30	14,999	10,028
1923	3	10,147	15,731	1,383	1,814	5,286	62	10,346	16,379	1,517	1,404	5,963	-1
1924	5	4,451	6,793	66	59	4,169	57	5,045	6,946	-12	-12	5,094	225
1925	4	9,703	18,167	7,889	8,392	4,987	16	10,194	24,930	7,406	6,733	6,301	576
1926	4	7,701	14,183	-96	-70	8,971	67	8,588	15,615	-328	-326	10,164	150
1927	1	19,604	32,726	5,407	5,407	9,087	3,747	19,389	35,163	2,371	2,371	10,758	4,218
1928	2	12,413	36,306	1,740	288	9,392	4,372	11,474	34,898	3,091	1,287	5,686	-114
1929	5	5,109	7,987	104	162	4,203	7	5,568	8,269	151	151	4,499	47
1930	4	6,873	13,567	48	87	4,928	-12	7,460	14,980	-105	-104	6,251	-125
1931	5	4,083	6,451	25	75	4,331	1	4,869	6,501	98	98	5,225	-582
1932	4	6,792	10,936	1,508	1,509	4,149	0	6,912	12,262	1,121	1,121	4,733	-22
1933	5	5,365	9,924	12	11	4,192	1	5,217	10,158	13	13	5,424	84
1934	5	5,372	9,416	-25	-25	3,400	0	5,741	9,391	-28	-28	5,457	-52
1935	3	9,465	28,588	385	470	5,037	-1	10,007	29,466	207	205	5,472	-110
1936	3	13,275	21,796	13,804	13,862	5,143	-9	13,506	35,580	13,565	13,566	6,325	-25
1937	3	11,294	30,045	-11	-24	10,249	-36	11,203	29,682	155	446	10,889	3
1938	1	39,820	106,846	266	264	14,116	9,034	40,401	109,614	88	62	15,430	10,079
1939	4	5,900	9,405	984	84	4,788	-273	6,259	10,589	62	128	7,201	-914
1940	2	20,480	64,925	128	123	9,098	3,938	21,536	68,345	289	444	10,651	5,097
1941	1	31,839	67,039	1,711	855	14,525	9,497	31,248	64,473	1,588	479	15,074	9,992
1942	1	26,766	34,034	10,466	10,466	14,479	8,948	25,744	43,862	13,494	13,535	16,146	10,940
1943	1	20,053	40,935	101	-1,021	13,787	8,593	20,306	40,699	1,305	-28	14,650	9,404
1944	4	7,340	12,663	222	32	5,082	85	7,522	12,727	515	-6	6,209	-451
1945	3	9,473	17,896	11,230	9,737	5,338	-5	8,969	23,886	8,862	8,267	6,701	-3
1946	3	14,032	15,169	8,430	8,430	9,387	4,242	12,938	16,768	3,379	3,393	4,910	509
1947	4	6,018	11,395	-4	8	5,013	1	6,410	12,620	-62	-43	5,776	-60
1948	3	7,276	18,200	575	115	5,003	2	7,478	17,538	96	138	5,440	451

YEAR	WY Type	H3-ELT Annual Outflow (TAF)	H3-ELT Mar-May Outflow (cfs)	H2-ELT Increased Mar-May Outflow (cfs)	H4-ELT Increased Mar-May Outflow (cfs)	H3-ELT Sep-Nov Outflow (cfs)	H1-ELT Reduced Sep-Nov Outflow (cfs)	H3-LLT Annual Outflow (TAF)	H3-LLT Mar-May Outflow (cfs)	H2-LLT Increased Mar-May Outflow (cfs)	H4-LLT Increased Mar-May Outflow (cfs)	H3-LLT Sep-Nov Outflow (cfs)	H1-LLT Reduced Sep-Nov Outflow (cfs)
1949	4	7,139	19,785	-470	34	4,948	-22	7,622	22,184	1,323	2,246	6,092	-277
1950	3	7,609	13,736	5,345	5,584	19,340	1,299	8,055	24,829	10,052	10,052	17,701	32
1951	2	23,904	18,266	12,326	12,332	9,404	4,314	23,689	29,568	11,342	11,343	11,076	6,127
1952	1	29,198	66,753	2,098	37	14,398	7,703	29,231	66,264	1,950	420	15,530	9,495
1953	1	16,421	16,555	13,795	13,929	14,688	10,126	16,439	28,807	13,782	13,456	16,539	11,716
1954	2	13,197	28,624	-2,083	-3,571	9,175	4,220	13,353	27,688	-1,531	-1,754	10,781	3,648
1955	4	6,381	8,675	2,163	2,146	4,864	-5	6,895	10,689	748	665	6,982	-181
1956	1	30,815	29,011	14,270	14,287	14,792	10,053	31,143	40,506	14,108	14,114	15,780	10,119
1957	2	10,166	24,365	-1,228	-1,329	9,204	4,021	9,784	20,109	603	-1,333	10,792	5,186
1958	1	31,988	88,211	567	471	13,818	8,753	32,169	87,738	1,229	160	14,908	10,114
1959	3	8,925	10,238	8,641	8,266	4,775	39	9,221	12,126	-65	-88	7,428	-219
1960	4	6,204	11,068	2,635	2,947	4,840	7	6,934	15,051	3,075	2,925	6,280	-784
1961	4	6,174	9,955	209	275	4,104	-234	6,662	10,731	-356	-356	6,458	-95
1962	3	9,267	15,349	9,119	9,112	11,582	43	9,041	24,341	10,654	9,021	11,617	3
1963	1	18,481	44,510	2,498	2,495	14,531	6,934	18,296	45,530	2,289	2,288	10,632	4,310
1964	4	6,424	8,299	1,938	1,224	5,338	10	6,381	10,330	489	508	6,721	-20
1965	1	22,199	22,944	14,656	14,638	14,636	6,694	22,223	35,691	12,147	12,141	16,719	11,246
1966	3	8,580	12,513	1,149	838	5,405	-142	8,877	13,848	877	712	7,491	-113
1967	1	21,849	52,926	38	312	14,258	8,468	21,360	51,432	-33	88	15,399	9,976
1968	3	9,829	14,320	8,868	7,484	4,709	-288	9,974	20,420	6,200	5,960	6,126	1,023
1969	1	32,946	62,523	-134	246	14,688	8,638	33,358	60,721	566	1,283	16,080	10,302
1970	1	29,476	19,673	10,261	9,932	14,531	8,294	29,579	29,285	10,322	10,012	16,510	10,609
1971	1	15,583	25,498	1,822	2,335	14,781	9,630	15,885	28,198	4,749	4,490	15,681	10,636
1972	3	7,284	12,135	3,583	2,190	7,161	246	7,413	12,734	4,324	673	8,546	157
1973	2	19,059	27,237	7,551	7,551	23,262	2,976	19,791	34,709	6,638	6,638	21,219	2,110
1974	1	31,271	60,890	8	4	14,397	9,513	31,508	61,750	-74	-66	15,558	10,000
1975	1	16,257	41,656	1,366	1,396	14,803	9,785	16,121	44,017	1,676	1,738	16,244	10,417
1976	5	5,569	9,028	809	652	4,672	-205	6,079	10,399	287	2	5,396	-1,045
1977	5	3,878	6,113	0	0	3,761	168	4,928	6,113	0	0	4,419	-127
1978	2	18,857	46,188	1,523	1,294	8,976	2,252	19,908	46,661	377	384	10,605	3,960

YEAR	WY Type	H3-ELT Annual Outflow (TAF)	H3-ELT Mar-May Outflow (cfs)	H2-ELT Increased Mar-May Outflow (cfs)	H4-ELT Increased Mar-May Outflow (cfs)	H3-ELT Sep-Nov Outflow (cfs)	H1-ELT Reduced Sep-Nov Outflow (cfs)	H3-LLT Annual Outflow (TAF)	H3-LLT Mar-May Outflow (cfs)	H2-LLT Increased Mar-May Outflow (cfs)	H4-LLT Increased Mar-May Outflow (cfs)	H3-LLT Sep-Nov Outflow (cfs)	H1-LLT Reduced Sep-Nov Outflow (cfs)
1979	3	9,321	19,972	-593	-565	5,274	0	9,167	18,830	1,254	540	8,019	996
1980	2	24,850	32,952	10,236	10,228	9,264	4,042	25,135	42,969	9,686	9,525	10,924	6,121
1981	4	6,960	11,728	680	378	12,730	266	7,431	12,314	-225	-302	12,059	-224
1982	1	37,643	89,713	-23	237	24,348	3,556	37,450	88,941	-158	-18	21,890	4,840
1983	1	60,200	147,982	40	32	38,469	-4	58,899	147,567	676	90	34,969	811
1984	1	30,768	19,892	9,148	9,147	16,074	5,074	29,602	27,144	8,097	8,096	16,719	7,314
1985	4	7,611	11,175	239	74	5,003	453	7,708	11,253	348	336	5,666	-175
1986	1	29,462	62,632	1,834	2,133	14,262	8,842	29,392	64,510	1,716	1,899	15,567	10,070
1987	4	6,681	12,156	458	-1	4,572	-364	7,164	13,944	-6	10	6,272	21
1988	5	5,843	7,960	238	253	4,127	101	6,644	8,639	236	236	5,061	-47
1989	4	7,596	24,653	838	373	4,506	9	8,032	26,566	2,261	1,774	6,977	-87
1990	5	4,804	8,373	174	162	4,032	59	5,471	8,828	268	299	5,205	156
1991	5	5,212	14,080	61	54	3,939	25	5,749	14,225	118	199	4,646	-21
1992	5	6,262	10,674	-1	-3	3,167	0	6,606	11,006	25	17	5,022	10
1993	2	15,119	28,965	5,559	5,600	8,976	4,063	16,074	36,189	3,849	3,849	10,729	5,064
1994	5	5,446	8,475	498	405	3,703	-202	6,168	9,125	691	548	6,737	955
1995	1	37,748	123,561	-296	-251	13,622	6,675	37,164	120,059	78	-162	14,568	8,197
1996	1	24,024	47,286	1,221	-586	14,896	9,420	23,530	44,314	1,105	-531	16,315	10,313
1997	1	36,348	16,029	12,919	12,589	14,583	9,435	35,887	26,899	11,462	11,227	15,964	10,836
1998	1	37,556	64,168	2,467	292	15,387	322	37,989	68,075	2,781	403	15,990	2,373
1999	1	20,699	32,996	4,854	4,854	14,792	9,697	21,190	35,425	1,927	1,927	15,605	10,679
2000	2	17,945	32,173	9,346	9,346	9,449	4,219	18,597	41,819	8,404	8,467	10,937	5,536
2001	4	6,590	11,763	87	-12	4,308	81	7,010	12,961	-182	-153	6,678	-246
2002	4	9,089	11,476	4,088	4,085	4,686	270	9,561	14,413	2,123	2,327	5,495	-555
2003	2	13,670	23,303	5,927	5,865			13,033	25,509	6,277	6,285		
Min		3,878	6,113	-2,083	-3,571	3,167	-364	4,869	6,113	-1,531	-1,754	4,419	-1,045
Average		15,590	29,256	3,166	2,962	9,581	3,091	15,767	31,854	2,917	2,658	10,503	3,464
Max		60,200	147,982	14,656	14,638	38,469	10,126	58,899	147,567	14,108	14,114	34,969	11,716

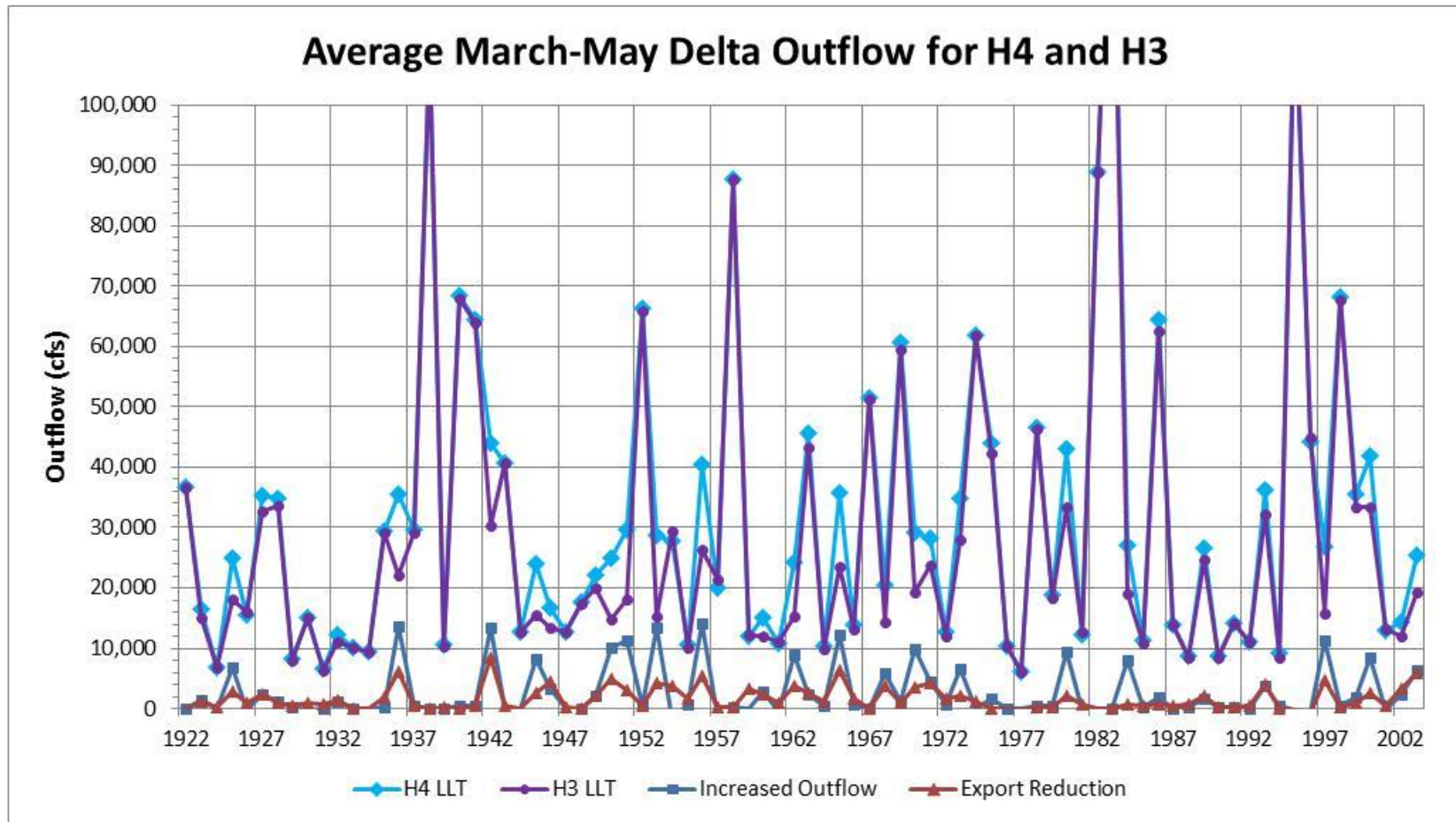
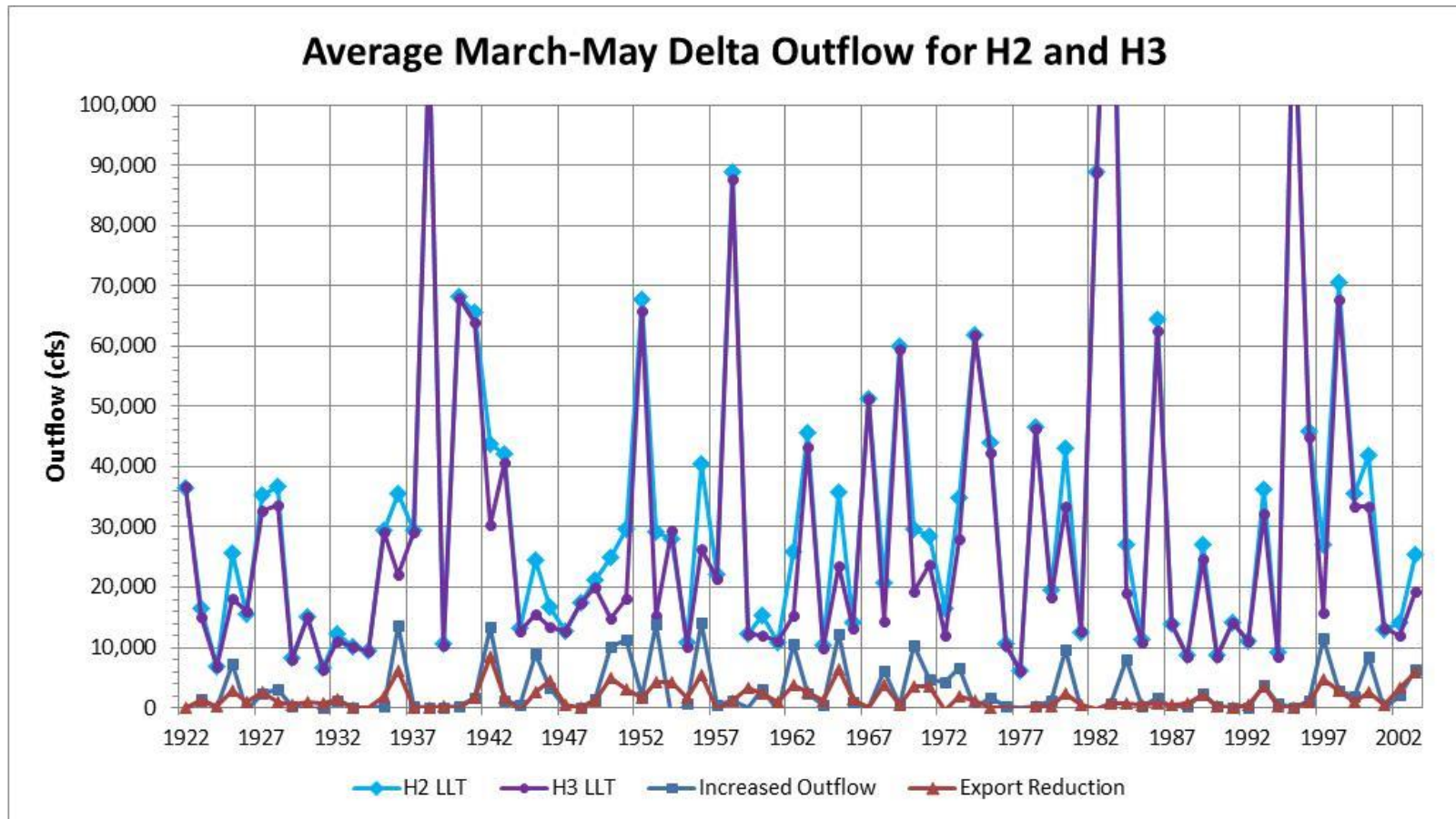


Figure 1. CALSIM-Simulated Average March-May Delta Outflow for H3 and H4 Cases for WY 1922-2003 at the LLT Timeframe (2060)

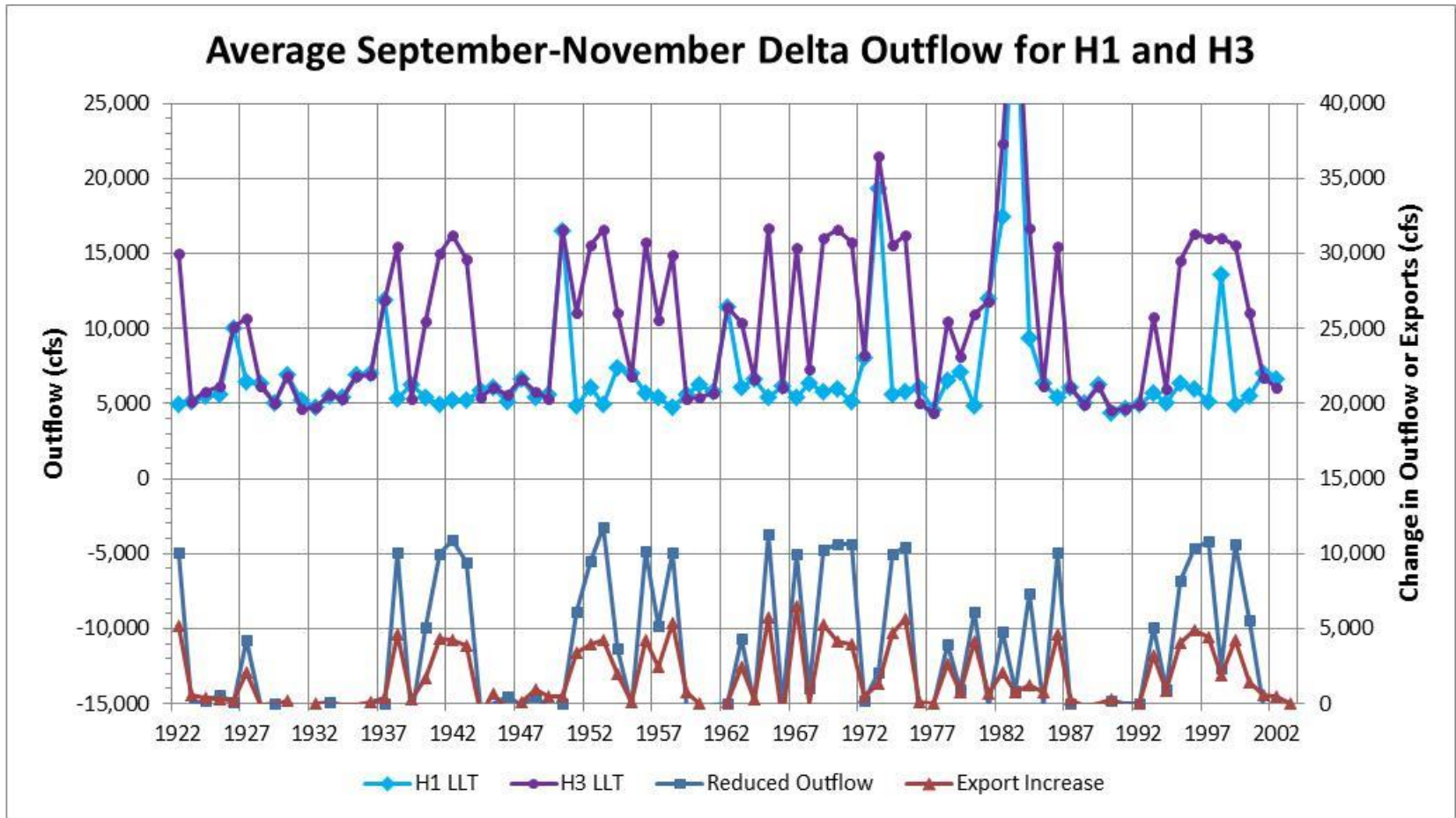
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Figure 2. CALSIM-Simulated Average March-May Delta Outflow for H2 and H3 Cases for WY 1922–2003 at the LLT Timeframe (2060)

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Figure 3. CALSIM-Simulated Average September–November Delta Outflow for H1 and H3 Cases for WY 1922–2003 at the LLT Timeframe (2060)

1 **Table 3. CALSIM-Simulated Monthly Distributions of Keswick Dam Releases (cfs) for H3 and Changes**
 2 **for the H4, H2 and H1 Cases for the LLT Timeframe for WY 1922–2003**

A. H3_LL_T Keswick Flow													
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Min	2,794	2,870	3,059	3,250	3,250	3,250	3,250	3,250	6,217	6,051	2,703	2,803	3,112
10%	4,000	3,489	3,250	3,250	3,250	3,250	3,720	5,232	8,503	10,451	7,563	3,771	4,126
20%	4,554	4,000	3,384	3,250	3,250	3,250	4,500	5,713	10,007	11,257	8,200	4,206	4,565
30%	5,501	4,000	3,667	3,292	3,250	3,422	4,500	6,237	10,861	12,541	8,928	4,721	5,009
40%	6,083	4,242	4,000	3,997	3,565	4,113	4,852	6,866	11,449	13,443	9,634	5,540	5,206
50%	6,605	4,482	4,000	4,482	4,500	4,500	5,657	7,553	12,235	14,092	10,004	7,107	5,669
60%	6,917	4,913	4,195	4,500	4,732	4,784	6,173	7,990	13,033	15,000	10,354	8,964	6,722
70%	7,552	5,136	4,488	8,258	10,115	7,007	7,156	8,987	13,654	15,000	10,647	11,417	7,290
80%	8,051	6,050	6,603	13,647	22,983	12,351	8,490	9,614	14,394	15,000	11,395	12,880	8,258
90%	8,726	7,472	15,302	20,808	30,081	20,167	10,549	11,627	14,977	15,155	12,459	14,741	9,356
Max	13,169	24,163	32,513	60,328	51,105	46,363	30,978	15,000	15,000	16,420	15,000	15,662	12,476
Avg	6,555	5,288	6,587	9,235	11,261	8,834	6,852	7,915	12,008	13,421	9,757	8,248	6,390
B. H4_LL_T Changes in Keswick Flow													
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Min	-56	-1	150	0	0	0	0	0	10	3,101	0	0	70
10%	0	-62	0	0	0	0	-18	-44	-458	264	252	165	-63
20%	198	0	-79	0	0	0	0	1	-782	190	356	150	17
30%	71	0	-168	-18	0	-172	0	-252	-946	126	661	532	-162
40%	77	-37	-170	-50	144	-555	-48	-483	-856	121	344	721	66
50%	-48	-23	0	-299	0	0	-59	-612	-1,098	-43	420	899	37
60%	10	-99	-195	0	8	-284	-114	-586	-1,481	-58	595	1,264	-120
70%	137	211	-149	-1,362	-858	933	-152	-943	-1,216	0	849	136	72
80%	340	458	152	-2,094	-857	0	-867	-855	-1,146	0	1,002	885	-140
90%	417	1,005	741	0	0	0	-33	-272	-747	-155	1,451	259	12
Max	824	-2,245	0	0	-30	-3	0	-609	0	4,003	0	-13	-139
Avg	206	101	-37	-190	-21	-55	-146	-456	-869	100	758	489	-7

C. H1_LLT Changes in Keswick Flow													
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Min	-59	9	0	0	0	0	0	0	1,232	0	0	0	-2
10%	-82	0	0	0	0	0	27	-11	-26	-101	273	394	18
20%	36	0	86	0	0	0	0	27	-93	278	305	367	187
30%	-240	0	27	200	0	4	0	45	70	323	27	615	-44
40%	-325	-242	0	182	436	-65	116	-23	-3	336	-115	312	214
50%	-271	-432	146	18	0	0	-54	-20	123	262	7	-1,032	178
60%	115	-609	672	1,504	1,826	474	124	83	-106	0	-11	-2,708	62
70%	-49	-595	1,120	1,447	3,362	1,795	-143	75	101	0	210	-4,705	-140
80%	250	-1,191	3,588	1,742	541	130	25	409	345	0	-182	-5,905	-272
90%	429	-1,992	662	3,265	0	17	-26	173	23	395	50	-7,330	-69
Max	1,831	4,720	1,809	0	123	0	0	0	0	76	0	-3,867	-123
Avg	-27	-510	666	814	464	208	43	45	51	105	100	-2,252	-15
D. H2_LLT Changes in Keswick Flow													
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Min	-56	2	191	0	0	0	0	0	-54	2,678	243	0	469
10%	-11	-6	0	0	0	0	2	94	-408	333	224	367	8
20%	304	-98	-22	0	0	0	0	-2	-663	201	507	1,006	26
30%	5	0	-142	396	0	-172	0	-191	-795	-346	665	942	-66
40%	5	-242	-59	310	243	-305	24	-427	-557	-49	414	508	181
50%	-113	-269	0	104	0	0	-110	-620	-926	338	409	-759	151
60%	-32	-544	25	1,825	1,638	-274	89	-462	-1,267	0	787	-2,322	-67
70%	64	-563	86	1,678	2,936	1,988	-240	-892	-1,376	0	1,001	-4,499	-167
80%	211	-993	2,400	1,048	-693	0	-534	-759	-1,257	0	1,369	-5,737	-296
90%	927	-1,515	2,013	1,482	0	17	-36	-71	-1,147	-155	1,225	-6,503	-149
Max	1,671	2,679	2,857	0	127	-3	0	-245	0	532	0	-3,231	-79
Avg	192	-447	585	771	407	138	-54	-352	-777	103	736	-1,846	-29

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1 **Table 4. CALSIM-Simulated Monthly Distributions of Feather River below Thermalito Flow (cfs) for H3**
 2 **and Changes for the H4, H2 and H1 Cases for the LLT Timeframe for WY 1922–2003**

A. H3_LL_T Feather River Flow													
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Min	900	900	900	801	800	800	750	700	802	1,000	750	773	909
10%	1,200	930	1,200	900	900	824	1,000	1,000	2,216	2,121	1,372	1,000	1,496
20%	1,468	1,200	1,389	900	1,200	1,700	1,000	1,000	2,883	3,338	2,647	1,000	1,677
30%	1,906	1,700	1,700	1,582	1,700	1,700	1,000	1,411	3,147	5,042	3,218	1,344	1,959
40%	3,052	1,700	1,700	1,700	1,700	2,072	1,023	2,086	3,498	5,893	3,678	1,740	2,242
50%	4,000	1,703	1,700	1,700	2,132	3,020	1,671	2,643	4,665	6,724	4,253	2,955	2,808
60%	4,000	2,500	1,772	1,700	4,229	4,598	2,528	3,183	6,087	8,773	4,554	4,434	3,466
70%	4,000	2,500	2,423	2,152	8,648	8,322	3,248	3,695	7,216	9,832	4,795	5,943	4,147
80%	4,000	2,500	3,165	4,703	14,768	11,238	4,142	5,089	8,415	10,000	6,304	6,872	4,815
90%	4,000	2,500	4,883	14,463	21,959	16,426	8,573	6,829	9,502	10,000	8,908	7,494	5,712
Max	4,000	9,895	33,811	48,316	33,202	42,044	20,642	15,251	10,952	10,000	10,000	9,756	7,418
Avg	3,006	2,022	3,048	4,751	7,126	6,900	3,330	3,475	5,368	6,714	4,547	3,811	3,258
B. H4_LL_T Changes in Feather River Flow													
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Min	0	0	0	2	100	0	0	50	198	0	-89	-23	197
10%	59	270	-256	0	0	108	0	0	-428	-366	-307	-135	-116
20%	232	41	-182	60	0	0	0	214	-649	-427	-806	65	-5
30%	-168	0	0	-264	0	0	354	401	-546	-1,188	-811	421	-37
40%	-601	0	0	0	0	-372	862	387	-619	-707	-427	385	-119
50%	-1,050	-3	0	0	133	303	780	558	-1,439	-1,154	-699	-194	-72
60%	-312	-588	-72	0	75	678	795	945	-2,397	-2,681	-514	-446	52
70%	0	0	-85	-22	649	-91	4,824	2,017	-2,646	-2,560	-381	-755	-123
80%	0	0	380	-124	-1,387	759	8,716	1,836	-1,857	-2,167	-1,538	-369	-40
90%	0	0	-335	218	-932	-435	8,427	3,000	-1,445	-696	-3,192	-17	682
Max	0	3,303	0	0	0	6	0	1,749	5,079	0	-3,479	-267	470
Avg	-191	-7	-65	355	-154	154	2,516	1,102	-1,238	-1,219	-1,095	-191	-3

C. H1_LLТ Changes in Feather River Flow													
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Min	0	0	0	1	0	0	0	0	-2	0	0	0	95
10%	170	270	-34	0	0	176	0	0	-152	-41	148	0	-41
20%	232	227	-167	0	0	0	0	0	-237	447	194	0	45
30%	190	0	0	-380	0	0	0	2	22	92	210	-344	12
40%	366	0	0	0	0	29	37	-115	-22	-267	152	-740	122
50%	0	-3	0	0	272	596	324	-52	155	-166	-94	-1,799	189
60%	0	0	289	0	1,002	906	125	-326	-340	-204	-11	-3,045	87
70%	0	0	519	1,242	-1,055	0	9	24	-478	96	422	-4,342	-165
80%	0	0	1,282	2,146	155	1,231	31	100	-641	0	542	-4,833	-118
90%	0	0	1,027	3,283	0	648	-122	4	-132	0	-8	-4,611	287
Max	746	5,622	0	0	0	0	0	0	462	0	0	-1,741	-90
Avg	82	124	405	969	159	351	57	-39	-133	28	130	-2,153	2
D. H2_LLТ Changes in Feather River Flow													
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Min	0	0	0	2	100	0	0	50	198	0	-50	-42	194
10%	91	270	-50	0	0	69	0	0	-457	-444	135	-18	-23
20%	135	157	-189	0	0	0	0	239	-848	-474	-383	0	-42
30%	-206	0	0	-314	0	0	354	386	-533	-1,094	-460	-344	117
40%	-838	0	0	0	0	193	898	385	-649	-1,143	-321	-740	-67
50%	-1,175	-3	0	0	624	714	784	612	-1,362	-1,186	-522	-1,912	-50
60%	-9	-714	-72	128	1,973	888	647	1,178	-2,164	-2,403	-401	-3,127	-147
70%	0	-67	-146	1,521	535	5	4,824	1,992	-1,976	-2,643	-279	-4,374	-287
80%	0	0	220	4,809	-1,068	877	8,716	1,889	-2,224	-2,212	-1,484	-4,888	-109
90%	0	0	1,240	239	1	616	8,427	3,028	-1,880	-344	-3,331	-5,164	429
Max	746	5,622	0	0	0	6	0	1,749	4,272	0	-3,235	-2,543	610
Avg	-200	42	355	1,029	251	400	2,502	1,173	-1,212	-1,217	-875	-2,325	-3

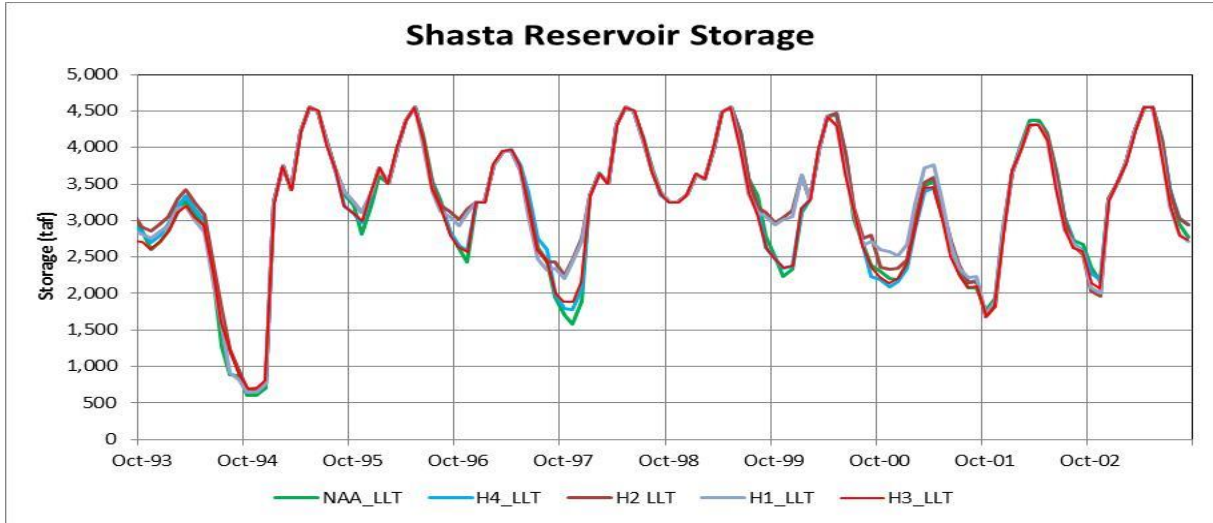
1 **Table 5. CALSIM-Simulated Monthly Distributions of American River Flow (cfs) for H3 and Changes for**
 2 **the H4, H1, and H2 Cases for the LLT Timeframe for WY 1922–2003**

A. H3_LL T American River Flow													
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Min	500	500	500	425	63	260	250	294	250	255	259	334	395
10%	800	800	800	800	807	800	800	800	941	939	641	735	966
20%	870	800	800	1,131	1,445	827	1,209	1,289	1,588	2,305	862	805	1,227
30%	1,240	1,133	1,162	1,637	1,560	1,436	1,577	1,551	2,485	2,680	1,482	1,410	1,332
40%	1,500	1,425	1,750	1,700	1,914	1,750	1,805	1,798	2,863	3,203	1,750	1,533	1,636
50%	1,500	1,683	1,848	1,750	3,290	2,910	2,509	2,295	3,272	3,622	1,750	1,533	1,953
60%	1,500	1,817	2,000	2,557	5,186	4,246	3,017	2,561	3,847	4,471	1,753	1,533	2,455
70%	1,681	1,925	2,000	5,645	7,468	4,776	4,263	3,043	4,344	4,998	1,977	2,038	3,143
80%	2,184	1,925	2,501	8,535	11,228	6,070	4,982	3,722	4,935	5,000	2,280	2,847	3,695
90%	2,597	2,831	8,558	13,543	15,920	9,229	6,950	6,542	5,000	5,000	2,509	3,450	4,137
Max	5,000	15,826	23,686	38,305	39,261	20,206	16,572	10,928	7,739	5,337	3,984	4,489	6,167
Avg	1,613	1,965	3,288	5,184	6,155	4,160	3,336	2,886	3,311	3,496	1,685	1,827	2,338
B. H4_LL T Changes for American River Flow													
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Min	0	0	0	-66	323	57	99	12	0	-5	-7	-29	-22
10%	0	0	0	0	15	0	0	0	-4	247	159	32	-39
20%	-70	39	2	34	-78	66	-71	-389	-163	-75	123	73	-61
30%	4	88	67	-150	-80	2	-40	-168	-735	-7	246	-22	39
40%	-3	42	0	0	75	189	-45	-57	-587	-115	0	0	4
50%	0	0	-40	-25	133	-64	-3	-408	-450	5	0	0	18
60%	0	-57	0	211	0	-374	124	-166	-587	-89	281	458	-13
70%	-181	-4	0	-401	-1	-26	-2	-236	-719	2	403	690	35
80%	-455	0	418	49	0	0	0	-56	-637	0	359	819	-30
90%	-360	-136	0	0	7	454	0	0	0	0	457	670	112
Max	-935	0	0	0	0	0	0	0	0	-337	1,016	511	34
Avg	-120	11	88	10	19	-4	-13	-154	-375	-22	240	261	-3

C. H1_LLT Changes for American River Flow													
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Min	0	0	0	-67	374	57	100	12	107	-5	-7	0	-8
10%	0	0	0	0	-7	0	0	3	132	16	159	-13	-59
20%	27	66	64	-55	-3	3	106	36	418	-266	-10	-5	14
30%	-12	-8	8	60	-43	-90	5	-8	158	-7	-45	-56	56
40%	0	33	0	0	687	0	-4	-13	230	-156	0	0	53
50%	0	3	96	33	382	-3	-2	-134	285	-261	0	0	-54
60%	0	71	0	193	-9	22	45	29	70	-335	-3	0	-18
70%	69	0	1	0	-4	53	-46	-51	97	-153	-13	-505	-88
80%	-52	0	756	-602	-278	-4	1	0	-66	0	36	-1,314	-45
90%	-136	-672	121	0	0	150	0	0	0	0	-1	-1,578	-19
Max	0	0	0	0	0	0	0	0	0	315	-205	-671	76
Avg	7	-40	172	60	34	14	15	-14	155	-106	3	-390	-5
D. H2_LLT Changes in American River Flow													
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Min	0	0	0	-64	323	57	97	12	107	-5	-7	0	-13
10%	0	0	0	0	172	0	0	0	-4	330	159	-7	-38
20%	97	174	96	192	-116	97	-22	-164	-88	27	32	-5	-20
30%	187	238	354	63	190	-45	-31	-182	-735	67	67	-46	40
40%	0	189	0	0	850	189	-45	-48	-499	-23	0	0	18
50%	0	24	152	436	403	-65	-3	-407	-467	67	0	0	20
60%	0	108	0	301	-10	0	303	-94	-736	-330	277	0	0
70%	125	0	30	0	-5	53	-2	-196	-828	2	207	-505	-88
80%	-94	0	808	-16	-235	-4	0	-56	-787	0	335	-1,314	-55
90%	-287	-329	149	0	9	454	-58	0	0	0	363	-1,109	43
Max	-213	0	0	0	0	0	0	0	0	592	-584	-525	144
Avg	7	83	280	127	84	33	-5	-153	-421	25	148	-340	-7

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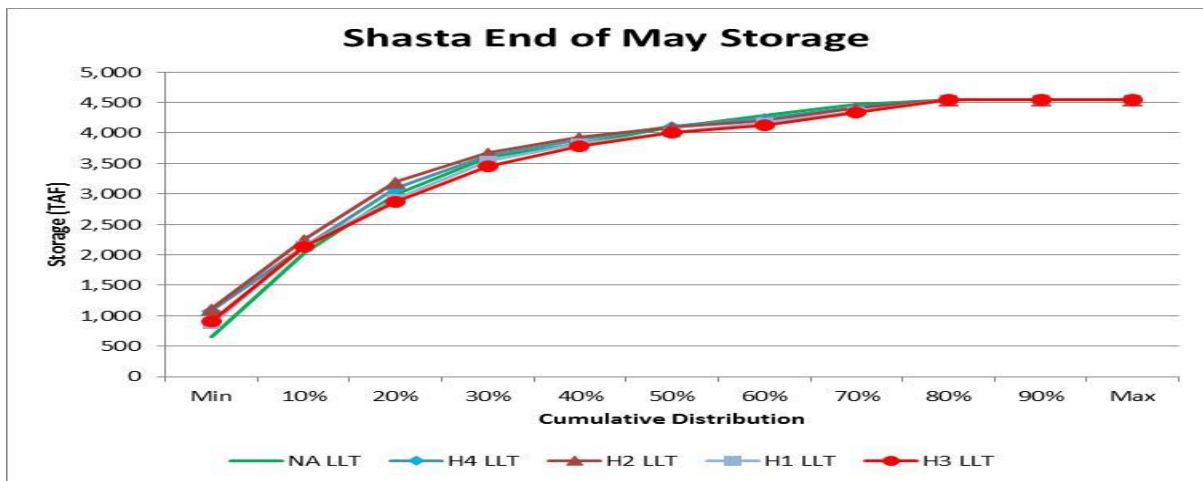


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Figure 4a. CALSIM-Simulated Shasta Reservoir Storage (taf) for H1 through H4 for WY 1994–2003

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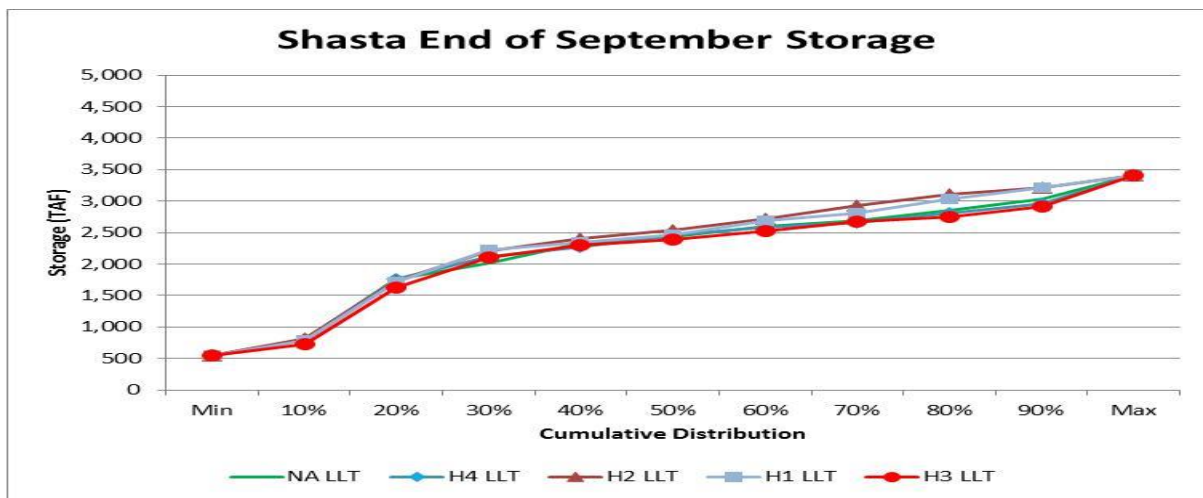


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Figure 4b. Shasta Reservoir End-of-May Storage for H1 through H4 for WY 1922–2003

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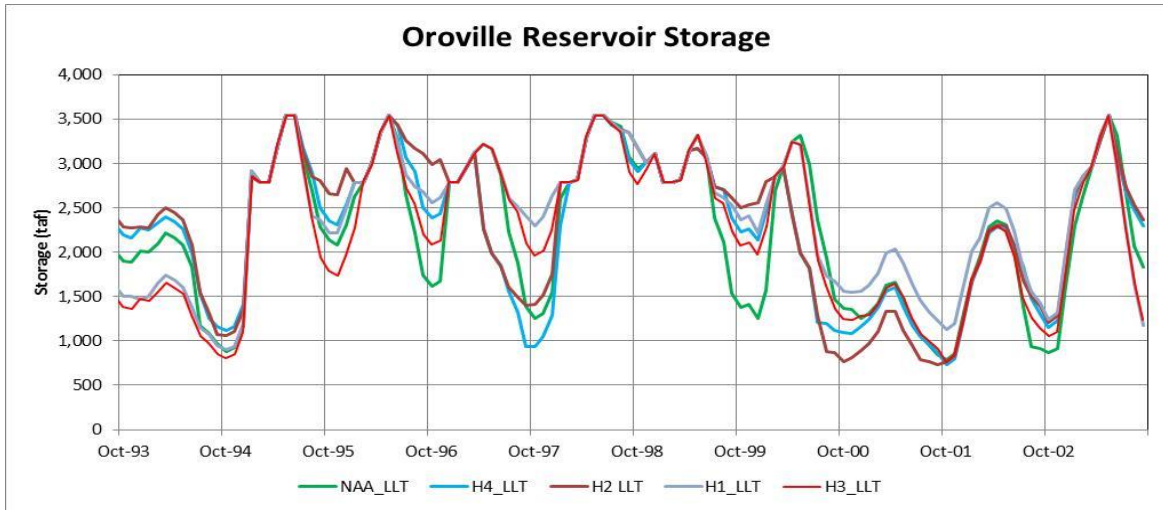
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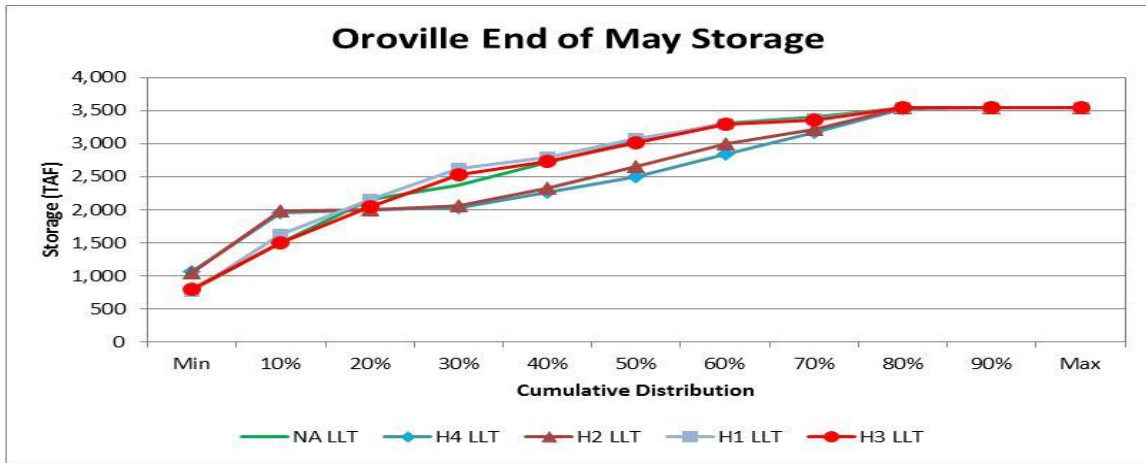
Figure 4c. Shasta Reservoir End-of-September Storage for H1 through H4 for WY 1922–2003

9



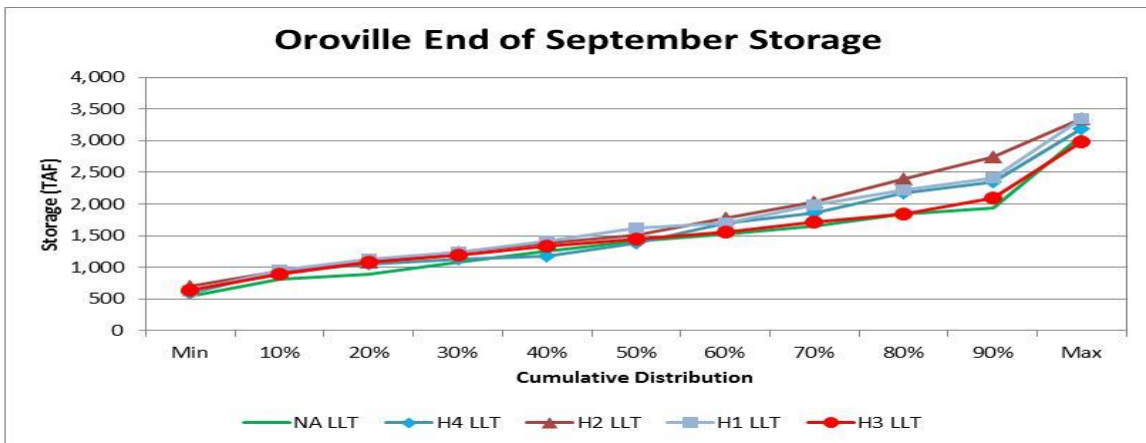
1
2 **Figure 5a. CALSIM-Simulated Oroville Reservoir Storage (taf) for H1 through H4 for WY 1994–2003**

3

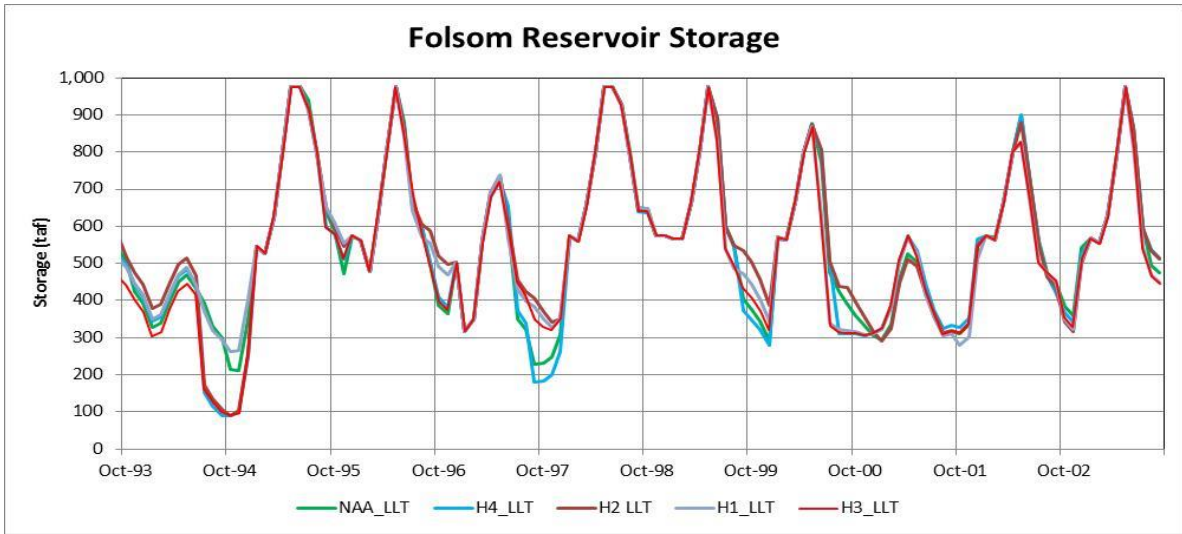


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5 **Figure 5b. Oroville Reservoir End-of-May Storage for H1 through H4 for WY 1922–2003**

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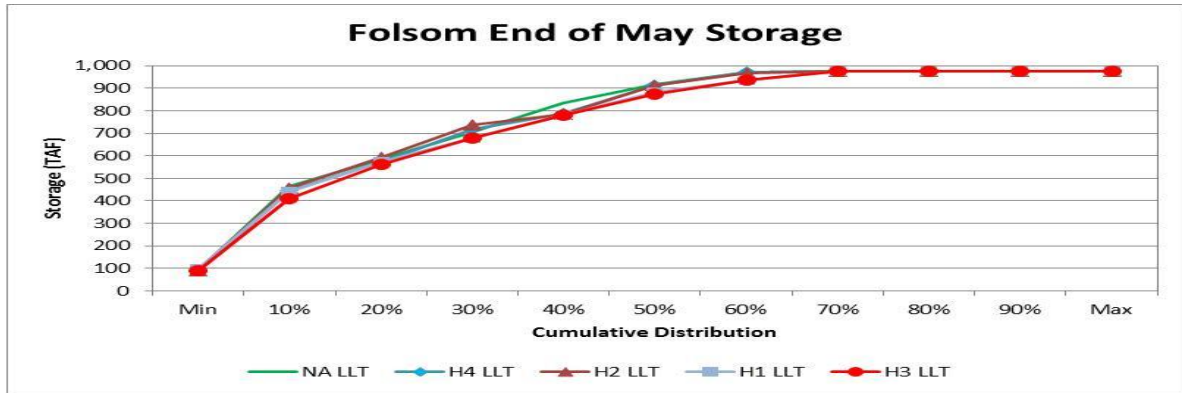


7
8 **Figure 5c. Oroville Reservoir End-of-September Storage for H1 through H4 for WY 1922–2003**



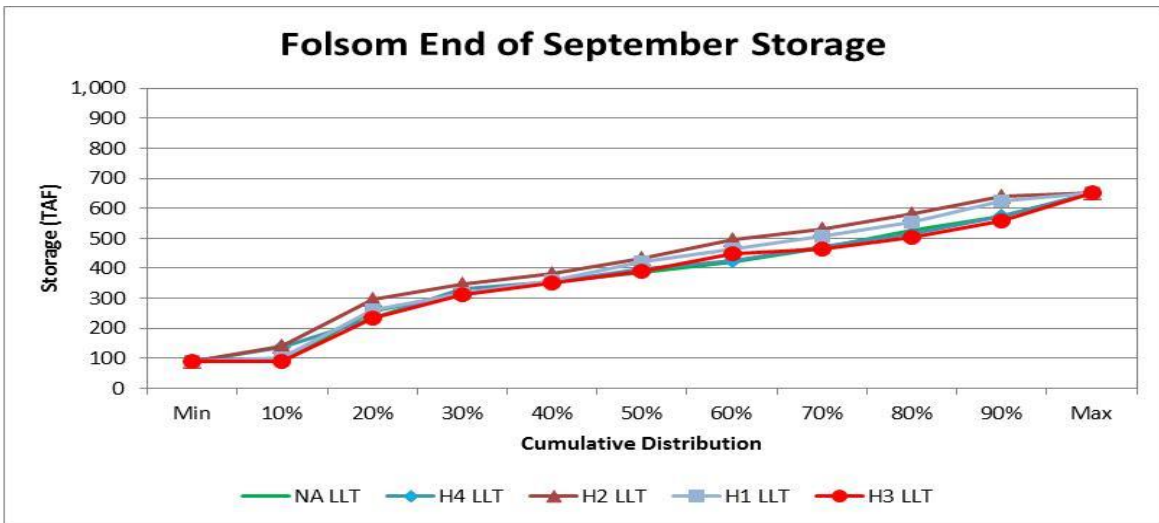
1
2 **Figure 6a. CALSIM-Simulated Folsom Reservoir Storage (taf) for H1 through H4 for WY 1994–2003**

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4
5 **Figure 6b. Folsom Reservoir End-of-May Storage for H1 through H4 for WY 1922–2003**

6



7
8 **Figure 6c. Folsom Reservoir End-of-September Storage for H1 through H4 for WY 1922–2003**

1 **11C.5 Alternative 5**

2 **11C.5.1 Upstream**

3 **11C.5.1.1 Sacramento River at Keswick**

4 **Table 1. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Keswick,**
 5 **Year-Round**

Alternative 5: Upstream—Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	16,526	18,233	18,577
	AN	8,318	8,205	7,566
	BN	4,502	4,184	4,626
	D	3,996	4,096	3,729
	C	3,490	4,238	4,041
	All	8,614	9,215	9,197
FEB	W	18,577	20,853	20,878
	AN	14,409	15,297	15,302
	BN	5,981	5,544	5,432
	D	3,684	3,410	3,490
	C	3,599	3,372	3,370
	All	10,355	11,039	11,046
MAR	W	16,200	17,065	17,126
	AN	9,131	8,818	8,774
	BN	5,200	4,318	4,249
	D	3,903	3,814	3,615
	C	3,487	3,583	3,800
	All	8,728	8,800	8,789
APR	W	9,418	9,131	9,035
	AN	6,182	5,536	5,811
	BN	5,426	5,009	5,317
	D	5,803	5,533	5,630
	C	6,472	6,550	6,729
	All	7,038	6,733	6,844
MAY	W	9,508	7,149	7,341
	AN	7,709	7,783	8,670
	BN	7,193	6,272	6,673
	D	7,349	7,681	8,495
	C	6,715	7,316	7,304
	All	7,967	7,233	7,669
JUN	W	10,375	10,274	10,942
	AN	11,147	12,032	12,484
	BN	10,758	10,947	11,719
	D	11,224	11,898	12,468
	C	10,392	11,350	10,829
	All	10,742	11,160	11,619

Alternative 5: Upstream—Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JUL	W	12,779	14,098	14,103
	AN	14,056	15,098	15,168
	BN	12,965	13,177	13,414
	D	13,302	13,727	13,544
	C	12,849	11,935	11,497
	All	13,123	13,689	13,637
AUG	W	11,029	10,491	10,962
	AN	10,449	11,641	11,315
	BN	10,139	10,261	10,015
	D	10,627	10,986	9,383
	C	9,473	7,348	7,039
	All	10,476	10,269	9,931
SEP	W	9,385	12,833	13,616
	AN	5,862	9,898	9,905
	BN	5,492	5,601	4,758
	D	5,985	4,469	4,396
	C	5,563	4,368	5,354
	All	6,899	8,094	8,328
OCT	W	6,886	7,034	7,003
	AN	7,145	7,152	7,739
	BN	6,396	7,072	7,958
	D	6,128	6,494	6,458
	C	5,902	5,752	5,833
	All	6,530	6,752	6,983
NOV	W	6,672	7,539	6,646
	AN	6,224	7,134	5,629
	BN	5,088	5,936	4,741
	D	5,669	5,406	4,887
	C	4,822	4,710	4,349
	All	5,845	6,324	5,450
DEC	W	12,766	11,022	10,547
	AN	5,531	5,377	5,297
	BN	5,413	5,195	4,835
	D	4,215	3,936	4,300
	C	3,828	3,582	3,642
	All	7,267	6,557	6,421

1 **Table 2. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Keswick, Year-Round**

Alternative 5: Upstream—Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1T	NAA vs. A5_LL1T
JAN	W	2,051 (12.4%)	344 (1.9%)
	AN	-751 (-9%)	-638 (-7.8%)
	BN	124 (2.8%)	442 (10.6%)
	D	-266 (-6.7%)	-367 (-9%)
	C	551 (15.8%)	-197 (-4.6%)
	All	584 (6.8%)	-18 (-0.2%)
FEB	W	2,300 (12.4%)	24 (0.1%)
	AN	893 (6.2%)	5 (0%)
	BN	-549 (-9.2%)	-112 (-2%)
	D	-194 (-5.3%)	80 (2.3%)
	C	-229 (-6.3%)	-2 (-0.1%)
	All	690 (6.7%)	7 (0.1%)
MAR	W	926 (5.7%)	61 (0.4%)
	AN	-357 (-3.9%)	-44 (-0.5%)
	BN	-951 (-18.3%)	-69 (-1.6%)
	D	-289 (-7.4%)	-199 (-5.2%)
	C	312 (9%)	216 (6%)
	All	61 (0.7%)	-11 (-0.1%)
APR	W	-382 (-4.1%)	-95 (-1%)
	AN	-371 (-6%)	275 (5%)
	BN	-109 (-2%)	308 (6.2%)
	D	-173 (-3%)	97 (1.7%)
	C	257 (4%)	179 (2.7%)
	All	-195 (-2.8%)	110 (1.6%)
MAY	W	-2,167 (-22.8%)	192 (2.7%)
	AN	961 (12.5%)	887 (11.4%)
	BN	-520 (-7.2%)	402 (6.4%)
	D	1,147 (15.6%)	814 (10.6%)
	C	589 (8.8%)	-12 (-0.2%)
	All	-297 (-3.7%)	436 (6%)
JUN	W	567 (5.5%)	668 (6.5%)
	AN	1,337 (12%)	452 (3.8%)
	BN	960 (8.9%)	771 (7%)
	D	1,244 (11.1%)	570 (4.8%)
	C	437 (4.2%)	-521 (-4.6%)
	All	876 (8.2%)	458 (4.1%)
JUL	W	1,324 (10.4%)	5 (0%)
	AN	1,112 (7.9%)	70 (0.5%)
	BN	449 (3.5%)	237 (1.8%)
	D	242 (1.8%)	-183 (-1.3%)
	C	-1,352 (-10.5%)	-437 (-3.7%)
	All	514 (3.9%)	-52 (-0.4%)

Alternative 5: Upstream—Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
AUG	W	-67 (-0.6%)	471 (4.5%)
	AN	866 (8.3%)	-326 (-2.8%)
	BN	-125 (-1.2%)	-246 (-2.4%)
	D	-1,245 (-11.7%)	-1,603 (-14.6%)
	C	-2,434 (-25.7%)	-309 (-4.2%)
	All	-545 (-5.2%)	-337 (-3.3%)
SEP	W	4,231 (45.1%)	783 (6.1%)
	AN	4,042 (69%)	7 (0.1%)
	BN	-734 (-13.4%)	-843 (-15%)
	D	-1,589 (-26.6%)	-73 (-1.6%)
	C	-209 (-3.8%)	986 (22.6%)
	All	1,428 (20.7%)	234 (2.9%)
OCT	W	118 (1.7%)	-31 (-0.4%)
	AN	594 (8.3%)	587 (8.2%)
	BN	1,562 (24.4%)	886 (12.5%)
	D	330 (5.4%)	-37 (-0.6%)
	C	-70 (-1.2%)	81 (1.4%)
	All	453 (6.9%)	231 (3.4%)
NOV	W	-27 (-0.4%)	-894 (-11.9%)
	AN	-594 (-9.6%)	-1,504 (-21.1%)
	BN	-347 (-6.8%)	-1,195 (-20.1%)
	D	-782 (-13.8%)	-519 (-9.6%)
	C	-473 (-9.8%)	-361 (-7.7%)
	All	-396 (-6.8%)	-874 (-13.8%)
DEC	W	-2,219 (-17.4%)	-476 (-4.3%)
	AN	-234 (-4.2%)	-81 (-1.5%)
	BN	-578 (-10.7%)	-360 (-6.9%)
	D	86 (2%)	364 (9.3%)
	C	-187 (-4.9%)	60 (1.7%)
	All	-845 (-11.6%)	-135 (-2.1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.5.1.2 Sacramento River Upstream of Red Bluff**

2 **Table 3. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River Upstream of Red**
 3 **Bluff, Year-Round**

Alternative 5: Upstream—Sacramento River Upstream of Red Bluff				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	28,036	30,390	30,734
	AN	16,725	16,885	16,244
	BN	9,381	9,146	9,589
	D	7,098	7,262	6,891
	C	6,143	6,942	6,756
	All	15,396	16,278	16,261
FEB	W	30,255	33,472	33,491
	AN	23,492	24,828	24,835
	BN	12,005	11,614	11,497
	D	8,947	8,790	8,873
	C	6,599	6,378	6,378
	All	18,010	19,092	19,098
MAR	W	25,004	26,210	26,270
	AN	16,599	16,428	16,382
	BN	9,333	8,474	8,393
	D	8,385	8,300	8,100
	C	5,999	6,101	6,320
	All	14,669	14,876	14,863
APR	W	15,172	14,842	14,746
	AN	10,477	9,761	10,035
	BN	8,711	8,282	8,592
	D	7,948	7,661	7,758
	C	7,742	7,829	8,008
	All	10,709	10,376	10,486
MAY	W	12,541	10,073	10,264
	AN	10,012	10,047	10,930
	BN	8,781	7,875	8,274
	D	8,677	9,012	9,823
	C	7,746	8,348	8,336
	All	9,979	9,208	9,643
JUN	W	11,905	11,720	12,385
	AN	12,001	12,789	13,234
	BN	11,464	11,651	12,420
	D	11,777	12,441	13,003
	C	10,885	11,881	11,361
	All	11,666	12,046	12,501
JUL	W	13,255	14,525	14,527
	AN	14,129	15,142	15,210
	BN	13,011	13,258	13,494
	D	13,368	13,826	13,639
	C	13,005	12,149	11,748
	All	13,329	13,898	13,849

Alternative 5: Upstream—Sacramento River Upstream of Red Bluff				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL
AUG	W	11,284	10,735	11,208
	AN	10,580	11,775	11,450
	BN	10,202	10,364	10,120
	D	10,747	11,143	9,540
	C	9,590	7,665	7,372
	All	10,630	10,464	10,130
SEP	W	9,856	13,312	14,093
	AN	6,279	10,320	10,329
	BN	5,821	5,963	5,125
	D	6,391	4,911	4,849
	C	5,887	4,838	5,797
	All	7,302	8,535	8,768
OCT	W	8,020	8,188	8,158
	AN	8,112	8,162	8,749
	BN	7,094	7,778	8,659
	D	6,903	7,287	7,234
	C	6,670	6,537	6,630
	All	7,432	7,675	7,904
NOV	W	9,876	10,821	9,929
	AN	8,144	9,098	7,590
	BN	6,791	7,682	6,482
	D	7,548	7,347	6,830
	C	5,811	5,703	5,356
	All	7,990	8,521	7,649
DEC	W	21,015	19,613	19,143
	AN	10,019	10,053	9,984
	BN	8,408	8,228	7,880
	D	7,292	7,091	7,461
	C	5,628	5,433	5,498
	All	11,989	11,446	11,319

1 **Table 4. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **Upstream of Red Bluff, Year-Round**

Alternative 5: Upstream—Sacramento River Upstream of Red Bluff			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1T	NAA vs. A5_LL1T
JAN	W	2,697 (9.6%)	344 (1.1%)
	AN	-480 (-2.9%)	-641 (-3.8%)
	BN	208 (2.2%)	443 (4.8%)
	D	-206 (-2.9%)	-370 (-5.1%)
	C	612 (10%)	-186 (-2.7%)
	All	865 (5.6%)	-18 (-0.1%)
FEB	W	3,236 (10.7%)	20 (0.1%)
	AN	1,343 (5.7%)	7 (0%)
	BN	-508 (-4.2%)	-117 (-1%)
	D	-74 (-0.8%)	83 (0.9%)
	C	-221 (-3.3%)	0 (0%)
	All	1,087 (6%)	5 (0%)
MAR	W	1,266 (5.1%)	60 (0.2%)
	AN	-216 (-1.3%)	-46 (-0.3%)
	BN	-940 (-10.1%)	-81 (-1%)
	D	-285 (-3.4%)	-200 (-2.4%)
	C	321 (5.3%)	218 (3.6%)
	All	194 (1.3%)	-14 (-0.1%)
APR	W	-426 (-2.8%)	-96 (-0.6%)
	AN	-442 (-4.2%)	274 (2.8%)
	BN	-119 (-1.4%)	309 (3.7%)
	D	-190 (-2.4%)	97 (1.3%)
	C	266 (3.4%)	179 (2.3%)
	All	-223 (-2.1%)	110 (1.1%)
MAY	W	-2,276 (-18.2%)	192 (1.9%)
	AN	917 (9.2%)	883 (8.8%)
	BN	-507 (-5.8%)	400 (5.1%)
	D	1,146 (13.2%)	811 (9%)
	C	590 (7.6%)	-12 (-0.1%)
	All	-336 (-3.4%)	435 (4.7%)
JUN	W	480 (4%)	665 (5.7%)
	AN	1,233 (10.3%)	445 (3.5%)
	BN	956 (8.3%)	769 (6.6%)
	D	1,226 (10.4%)	562 (4.5%)
	C	477 (4.4%)	-520 (-4.4%)
	All	835 (7.2%)	455 (3.8%)
JUL	W	1,272 (9.6%)	2 (0%)
	AN	1,081 (7.6%)	68 (0.5%)
	BN	483 (3.7%)	236 (1.8%)
	D	271 (2%)	-187 (-1.4%)
	C	-1,257 (-9.7%)	-402 (-3.3%)
	All	519 (3.9%)	-49 (-0.4%)

Alternative 5: Upstream—Sacramento River Upstream of Red Bluff			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1T	NAA vs. A5_LL1T
AUG	W	-76 (-0.7%)	472 (4.4%)
	AN	870 (8.2%)	-325 (-2.8%)
	BN	-82 (-0.8%)	-244 (-2.4%)
	D	-1,207 (-11.2%)	-1,603 (-14.4%)
	C	-2,218 (-23.1%)	-293 (-3.8%)
	All	-500 (-4.7%)	-334 (-3.2%)
SEP	W	4,237 (43%)	781 (5.9%)
	AN	4,050 (64.5%)	9 (0.1%)
	BN	-695 (-11.9%)	-838 (-14%)
	D	-1,542 (-24.1%)	-62 (-1.3%)
	C	-89 (-1.5%)	959 (19.8%)
	All	1,466 (20.1%)	233 (2.7%)
OCT	W	139 (1.7%)	-29 (-0.4%)
	AN	637 (7.9%)	587 (7.2%)
	BN	1,564 (22.1%)	881 (11.3%)
	D	332 (4.8%)	-52 (-0.7%)
	C	-40 (-0.6%)	93 (1.4%)
	All	471 (6.3%)	229 (3%)
NOV	W	52 (0.5%)	-892 (-8.2%)
	AN	-554 (-6.8%)	-1,508 (-16.6%)
	BN	-309 (-4.6%)	-1,201 (-15.6%)
	D	-718 (-9.5%)	-516 (-7%)
	C	-456 (-7.8%)	-347 (-6.1%)
	All	-341 (-4.3%)	-873 (-10.2%)
DEC	W	-1,872 (-8.9%)	-470 (-2.4%)
	AN	-35 (-0.3%)	-69 (-0.7%)
	BN	-528 (-6.3%)	-348 (-4.2%)
	D	169 (2.3%)	370 (5.2%)
	C	-130 (-2.3%)	65 (1.2%)
	All	-671 (-5.6%)	-128 (-1.1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.5.1.3 Sacramento River at Wilkins Slough**

2 **Table 5. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Wilkins Slough,**
 3 **Year-Round**

Alternative 5: Upstream—Sacramento River at Wilkins Slough				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	19,145	19,320	19,365
	AN	17,084	16,593	16,482
	BN	12,521	12,143	12,598
	D	8,896	9,189	8,781
	C	7,858	8,586	8,428
	All	13,811	13,901	13,864
FEB	W	19,887	20,044	20,036
	AN	19,139	19,095	19,095
	BN	14,528	14,328	14,261
	D	11,520	11,473	11,572
	C	8,499	8,158	8,163
	All	15,359	15,309	15,317
MAR	W	18,223	18,323	18,325
	AN	17,696	17,537	17,666
	BN	12,208	11,534	11,480
	D	11,364	11,191	11,190
	C	8,101	8,166	8,382
	All	14,132	13,997	14,038
APR	W	13,392	13,119	13,050
	AN	10,264	9,783	10,054
	BN	7,152	6,858	7,172
	D	5,319	5,112	5,213
	C	4,164	4,331	4,501
	All	8,746	8,518	8,636
MAY	W	10,467	8,435	8,643
	AN	7,318	7,500	8,363
	BN	5,638	4,871	5,253
	D	4,669	5,088	5,870
	C	3,998	4,528	4,517
	All	6,962	6,383	6,811
JUN	W	6,503	6,435	7,080
	AN	5,781	6,530	6,932
	BN	5,243	5,628	6,388
	D	5,245	6,075	6,579
	C	5,140	6,253	5,601
	All	5,707	6,205	6,614
JUL	W	6,685	7,771	7,735
	AN	6,971	7,892	7,940
	BN	6,122	6,560	6,767
	D	6,788	7,474	7,209
	C	7,162	6,649	6,289
	All	6,723	7,353	7,273

Alternative 5: Upstream—Sacramento River at Wilkins Slough				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
AUG	W	6,287	5,537	6,016
	AN	5,498	6,610	6,308
	BN	5,138	5,462	5,189
	D	5,833	6,356	4,715
	C	5,551	4,719	4,500
	All	5,768	5,741	5,410
SEP	W	9,338	12,737	13,495
	AN	5,631	9,546	9,583
	BN	5,128	5,216	4,389
	D	5,636	4,114	4,137
	C	5,200	4,354	5,293
	All	6,658	7,866	8,113
OCT	W	7,347	7,382	7,366
	AN	6,799	6,927	7,505
	BN	5,987	6,570	7,436
	D	5,688	6,040	5,936
	C	5,642	5,572	5,711
	All	6,421	6,617	6,842
NOV	W	9,644	10,889	9,966
	AN	8,210	9,141	7,614
	BN	6,793	7,588	6,352
	D	7,407	7,227	6,730
	C	5,118	4,986	4,672
	All	7,794	8,402	7,520
DEC	W	17,881	17,257	17,202
	AN	10,809	10,755	11,018
	BN	8,505	8,258	8,304
	D	8,950	8,725	9,080
	C	6,229	5,981	6,052
	All	11,580	11,246	11,363

1 **Table 6. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Wilkins Slough, Year-Round**

Alternative 5: Upstream—Sacramento River at Wilkins Slough			
Month	WYT	EXISTING CONDITIONS vs. A5_LL	NAA vs. A5_LL
JAN	W	221 (1.2%)	45 (0.2%)
	AN	-602 (-3.5%)	-111 (-0.7%)
	BN	77 (0.6%)	455 (3.7%)
	D	-115 (-1.3%)	-408 (-4.4%)
	C	570 (7.3%)	-158 (-1.8%)
	All	53 (0.4%)	-37 (-0.3%)
FEB	W	149 (0.7%)	-8 (0%)
	AN	-44 (-0.2%)	0 (0%)
	BN	-267 (-1.8%)	-67 (-0.5%)
	D	53 (0.5%)	99 (0.9%)
	C	-335 (-3.9%)	5 (0.1%)
	All	-42 (-0.3%)	8 (0.1%)
MAR	W	102 (0.6%)	2 (0%)
	AN	-29 (-0.2%)	130 (0.7%)
	BN	-728 (-6%)	-54 (-0.5%)
	D	-174 (-1.5%)	-1 (0%)
	C	281 (3.5%)	216 (2.6%)
	All	-93 (-0.7%)	42 (0.3%)
APR	W	-342 (-2.6%)	-70 (-0.5%)
	AN	-210 (-2%)	271 (2.8%)
	BN	19 (0.3%)	314 (4.6%)
	D	-107 (-2%)	100 (2%)
	C	337 (8.1%)	170 (3.9%)
	All	-110 (-1.3%)	118 (1.4%)
MAY	W	-1,824 (-17.4%)	207 (2.5%)
	AN	1,045 (14.3%)	864 (11.5%)
	BN	-384 (-6.8%)	382 (7.8%)
	D	1,201 (25.7%)	782 (15.4%)
	C	519 (13%)	-11 (-0.3%)
	All	-152 (-2.2%)	427 (6.7%)
JUN	W	577 (8.9%)	645 (10%)
	AN	1,152 (19.9%)	403 (6.2%)
	BN	1,145 (21.8%)	760 (13.5%)
	D	1,334 (25.4%)	505 (8.3%)
	C	461 (9%)	-651 (-10.4%)
	All	907 (15.9%)	409 (6.6%)
JUL	W	1,050 (15.7%)	-36 (-0.5%)
	AN	969 (13.9%)	48 (0.6%)
	BN	645 (10.5%)	207 (3.2%)
	D	421 (6.2%)	-265 (-3.6%)
	C	-873 (-12.2%)	-361 (-5.4%)
	All	550 (8.2%)	-80 (-1.1%)

Alternative 5: Upstream—Sacramento River at Wilkins Slough			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
AUG	W	-271 (-4.3%)	479 (8.7%)
	AN	809 (14.7%)	-303 (-4.6%)
	BN	51 (1%)	-274 (-5%)
	D	-1,118 (-19.2%)	-1,641 (-25.8%)
	C	-1,052 (-18.9%)	-220 (-4.7%)
	All	-358 (-6.2%)	-331 (-5.8%)
SEP	W	4,157 (44.5%)	757 (5.9%)
	AN	3,952 (70.2%)	37 (0.4%)
	BN	-739 (-14.4%)	-827 (-15.9%)
	D	-1,498 (-26.6%)	23 (0.6%)
	C	93 (1.8%)	939 (21.6%)
	All	1,455 (21.9%)	247 (3.1%)
OCT	W	19 (0.3%)	-16 (-0.2%)
	AN	706 (10.4%)	578 (8.3%)
	BN	1,449 (24.2%)	866 (13.2%)
	D	248 (4.4%)	-104 (-1.7%)
	C	69 (1.2%)	139 (2.5%)
	All	421 (6.6%)	225 (3.4%)
NOV	W	322 (3.3%)	-923 (-8.5%)
	AN	-596 (-7.3%)	-1,527 (-16.7%)
	BN	-441 (-6.5%)	-1,236 (-16.3%)
	D	-678 (-9.1%)	-497 (-6.9%)
	C	-446 (-8.7%)	-313 (-6.3%)
	All	-274 (-3.5%)	-882 (-10.5%)
DEC	W	-680 (-3.8%)	-55 (-0.3%)
	AN	210 (1.9%)	263 (2.4%)
	BN	-201 (-2.4%)	46 (0.6%)
	D	131 (1.5%)	356 (4.1%)
	C	-177 (-2.8%)	71 (1.2%)
	All	-216 (-1.9%)	117 (1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.5.1.4 Sacramento River at Verona**

2 **Table 7. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Verona,**
 3 **Year-Round**

Alternative 5: Upstream—Sacramento River at Verona				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	44,589	45,567	44,464
	AN	34,120	33,671	31,474
	BN	20,175	19,121	17,950
	D	14,756	14,782	13,795
	C	12,085	13,051	12,309
	All	27,583	27,795	26,599
FEB	W	49,892	51,326	50,193
	AN	39,162	39,749	38,217
	BN	26,429	25,341	23,635
	D	18,402	18,090	17,429
	C	12,822	12,325	12,009
	All	31,979	32,192	31,126
MAR	W	43,455	44,624	42,554
	AN	39,477	39,687	38,110
	BN	21,484	19,448	17,982
	D	17,868	17,649	16,552
	C	11,903	11,789	11,717
	All	28,888	28,877	27,488
APR	W	32,219	31,636	29,428
	AN	22,250	21,313	20,162
	BN	14,459	13,857	14,075
	D	11,113	10,903	11,301
	C	9,420	9,489	9,883
	All	19,759	19,298	18,611
MAY	W	26,193	20,229	20,317
	AN	17,079	16,002	16,791
	BN	11,451	10,534	11,033
	D	9,283	9,841	10,713
	C	7,125	7,611	7,459
	All	15,840	13,828	14,226
JUN	W	18,367	15,304	17,174
	AN	13,590	13,574	15,551
	BN	11,062	11,320	13,478
	D	10,429	10,780	11,609
	C	8,911	9,827	9,084
	All	13,295	12,576	13,900
JUL	W	16,253	17,965	18,565
	AN	17,488	18,338	18,664
	BN	16,698	16,598	17,726
	D	16,352	16,465	14,735
	C	14,476	12,457	10,529
	All	16,271	16,651	16,420

Alternative 5: Upstream—Sacramento River at Verona				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
AUG	W	12,464	14,016	13,217
	AN	13,691	15,828	15,332
	BN	13,389	14,074	13,368
	D	14,688	13,018	9,638
	C	9,207	8,085	7,431
	All	12,813	13,204	11,920
SEP	W	14,279	23,592	21,341
	AN	10,537	19,044	14,818
	BN	9,961	10,576	7,836
	D	10,542	7,664	7,503
	C	7,764	6,832	7,845
	All	11,220	14,755	13,068
OCT	W	11,503	11,232	11,254
	AN	9,381	9,890	11,047
	BN	9,867	10,146	11,255
	D	8,681	8,989	9,170
	C	8,543	8,104	9,137
	All	9,861	9,900	10,457
NOV	W	15,307	15,754	14,677
	AN	11,792	12,817	11,021
	BN	9,852	10,437	9,111
	D	10,157	9,731	9,182
	C	7,341	7,223	6,709
	All	11,565	11,846	10,819
DEC	W	33,840	31,254	29,320
	AN	17,572	18,481	17,793
	BN	13,099	13,028	12,844
	D	12,685	12,532	12,753
	C	9,770	8,627	9,067
	All	19,752	18,852	18,220

1 **Table 8. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Verona, Year-Round**

Alternative 5: Upstream—Sacramento River at Verona			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
JAN	W	-125 (-0.3%)	-1,103 (-2.4%)
	AN	-2,646 (-7.8%)	-2,197 (-6.5%)
	BN	-2,226 (-11%)	-1,171 (-6.1%)
	D	-961 (-6.5%)	-987 (-6.7%)
	C	224 (1.9%)	-742 (-5.7%)
	All	-985 (-3.6%)	-1,196 (-4.3%)
FEB	W	301 (0.6%)	-1,133 (-2.2%)
	AN	-944 (-2.4%)	-1,531 (-3.9%)
	BN	-2,794 (-10.6%)	-1,706 (-6.7%)
	D	-973 (-5.3%)	-661 (-3.7%)
	C	-813 (-6.3%)	-316 (-2.6%)
	All	-852 (-2.7%)	-1,066 (-3.3%)
MAR	W	-901 (-2.1%)	-2,070 (-4.6%)
	AN	-1,367 (-3.5%)	-1,577 (-4%)
	BN	-3,502 (-16.3%)	-1,466 (-7.5%)
	D	-1,317 (-7.4%)	-1,097 (-6.2%)
	C	-186 (-1.6%)	-72 (-0.6%)
	All	-1,400 (-4.8%)	-1,389 (-4.8%)
APR	W	-2,791 (-8.7%)	-2,208 (-7%)
	AN	-2,088 (-9.4%)	-1,151 (-5.4%)
	BN	-384 (-2.7%)	218 (1.6%)
	D	187 (1.7%)	398 (3.6%)
	C	462 (4.9%)	393 (4.1%)
	All	-1,148 (-5.8%)	-686 (-3.6%)
MAY	W	-5,876 (-22.4%)	89 (0.4%)
	AN	-289 (-1.7%)	789 (4.9%)
	BN	-418 (-3.7%)	499 (4.7%)
	D	1,429 (15.4%)	872 (8.9%)
	C	334 (4.7%)	-152 (-2%)
	All	-1,614 (-10.2%)	398 (2.9%)
JUN	W	-1,193 (-6.5%)	1,870 (12.2%)
	AN	1,961 (14.4%)	1,977 (14.6%)
	BN	2,416 (21.8%)	2,158 (19.1%)
	D	1,180 (11.3%)	829 (7.7%)
	C	173 (1.9%)	-743 (-7.6%)
	All	605 (4.6%)	1,324 (10.5%)
JUL	W	2,312 (14.2%)	600 (3.3%)
	AN	1,176 (6.7%)	326 (1.8%)
	BN	1,029 (6.2%)	1,128 (6.8%)
	D	-1,617 (-9.9%)	-1,730 (-10.5%)
	C	-3,947 (-27.3%)	-1,928 (-15.5%)
	All	148 (0.9%)	-231 (-1.4%)

Alternative 5: Upstream—Sacramento River at Verona			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
AUG	W	753 (6%)	-799 (-5.7%)
	AN	1,640 (12%)	-497 (-3.1%)
	BN	-21 (-0.2%)	-707 (-5%)
	D	-5,050 (-34.4%)	-3,380 (-26%)
	C	-1,776 (-19.3%)	-654 (-8.1%)
	All	-893 (-7%)	-1,284 (-9.7%)
SEP	W	7,062 (49.5%)	-2,251 (-9.5%)
	AN	4,282 (40.6%)	-4,225 (-22.2%)
	BN	-2,125 (-21.3%)	-2,739 (-25.9%)
	D	-3,039 (-28.8%)	-161 (-2.1%)
	C	81 (1%)	1,014 (14.8%)
	All	1,848 (16.5%)	-1,687 (-11.4%)
OCT	W	-249 (-2.2%)	23 (0.2%)
	AN	1,666 (17.8%)	1,157 (11.7%)
	BN	1,388 (14.1%)	1,109 (10.9%)
	D	490 (5.6%)	181 (2%)
	C	594 (6.9%)	1,033 (12.7%)
	All	596 (6%)	557 (5.6%)
NOV	W	-630 (-4.1%)	-1,078 (-6.8%)
	AN	-772 (-6.5%)	-1,796 (-14%)
	BN	-741 (-7.5%)	-1,326 (-12.7%)
	D	-974 (-9.6%)	-549 (-5.6%)
	C	-632 (-8.6%)	-514 (-7.1%)
	All	-746 (-6.4%)	-1,027 (-8.7%)
DEC	W	-4,520 (-13.4%)	-1,935 (-6.2%)
	AN	221 (1.3%)	-688 (-3.7%)
	BN	-255 (-1.9%)	-184 (-1.4%)
	D	68 (0.5%)	220 (1.8%)
	C	-703 (-7.2%)	440 (5.1%)
	All	-1,533 (-7.8%)	-633 (-3.4%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.5.1.5 Trinity River below Lewiston**

2 **Table 9. Mean Monthly Flows (cfs) for Model Scenarios in the Trinity River Below Lewiston,**
 3 **Year-Round**

Alternative 5: Upstream—Trinity River below Lewiston				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	1,440	1,518	1,476
	AN	300	300	300
	BN	358	300	300
	D	300	300	300
	C	300	287	275
	All	671	684	669
FEB	W	1,056	1,495	1,559
	AN	689	784	701
	BN	517	568	638
	D	300	300	300
	C	300	300	299
	All	634	795	816
MAR	W	1,209	1,385	1,385
	AN	436	519	519
	BN	319	300	300
	D	300	300	300
	C	300	300	300
	All	611	676	676
APR	W	721	844	844
	AN	469	513	458
	BN	507	504	504
	D	529	529	529
	C	575	580	580
	All	584	630	622
MAY	W	4,636	4,620	4,620
	AN	4,462	4,416	4,416
	BN	3,774	3,865	3,865
	D	3,216	3,216	3,216
	C	2,092	1,973	1,973
	All	3,779	3,766	3,766
JUN	W	3,371	3,560	3,560
	AN	2,488	3,188	3,188
	BN	1,672	1,767	1,767
	D	1,251	1,251	1,251
	C	783	783	783
	All	2,108	2,286	2,286
JUL	W	1,289	1,103	1,103
	AN	1,048	1,048	1,048
	BN	869	916	916
	D	667	667	667
	C	450	413	438
	All	923	866	870

Alternative 5: Upstream—Trinity River below Lewiston				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
AUG	W	450	450	450
	AN	450	450	450
	BN	450	450	450
	D	450	450	450
	C	450	338	338
	All	450	434	434
SEP	W	450	450	450
	AN	450	450	450
	BN	450	450	450
	D	450	450	450
	C	450	265	297
	All	450	423	428
OCT	W	373	373	373
	AN	373	311	320
	BN	346	346	346
	D	373	346	352
	C	373	311	280
	All	368	344	342
NOV	W	489	414	348
	AN	300	275	275
	BN	300	300	300
	D	300	283	283
	C	300	225	225
	All	360	318	297
DEC	W	1,072	837	890
	AN	300	300	300
	BN	300	300	300
	D	300	300	300
	C	300	275	250
	All	545	466	480

1 **Table 10. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Trinity River**
 2 **Below Lewiston, Year-Round**

Alternative 5: Upstream—Trinity River below Lewiston			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
JAN	W	36 (2.5%)	-42 (-2.8%)
	AN	0 (0%)	0 (0%)
	BN	-58 (-16.3%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-25 (-8.3%)	-12 (-4.3%)
	All	-2 (-0.3%)	-15 (-2.2%)
FEB	W	503 (47.6%)	65 (4.3%)
	AN	12 (1.7%)	-83 (-10.5%)
	BN	122 (23.6%)	70 (12.4%)
	D	0 (0%)	0 (0%)
	C	-1 (-0.3%)	-1 (-0.3%)
	All	182 (28.7%)	20 (2.5%)
MAR	W	176 (14.6%)	0 (0%)
	AN	83 (19.1%)	0 (0%)
	BN	-19 (-5.8%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	65 (10.6%)	0 (0%)
APR	W	122 (17%)	0 (0%)
	AN	-11 (-2.3%)	-54 (-10.6%)
	BN	-3 (-0.7%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	5 (0.9%)	0 (0%)
	All	37 (6.4%)	-8 (-1.3%)
MAY	W	-16 (-0.3%)	0 (0%)
	AN	-46 (-1%)	0 (0%)
	BN	90 (2.4%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-119 (-5.7%)	0 (0%)
	All	-14 (-0.4%)	0 (0%)
JUN	W	189 (5.6%)	0 (0%)
	AN	700 (28.1%)	0 (0%)
	BN	96 (5.7%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	179 (8.5%)	0 (0%)
JUL	W	-185 (-14.4%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	47 (5.4%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-12 (-2.7%)	25 (6.1%)
	All	-53 (-5.7%)	4 (0.4%)

Alternative 5: Upstream—Trinity River below Lewiston			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-112 (-25%)	0 (0%)
	All	-16 (-3.7%)	0 (0%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-153 (-34%)	32 (12%)
	All	-22 (-5%)	5 (1.1%)
OCT	W	0 (0%)	0 (0%)
	AN	-53 (-14.3%)	9 (2.8%)
	BN	0 (0%)	0 (0%)
	D	-21 (-5.6%)	6 (1.9%)
	C	-93 (-25%)	-31 (-10%)
	All	-26 (-7.1%)	-2 (-0.5%)
NOV	W	-140 (-28.8%)	-66 (-15.9%)
	AN	-25 (-8.3%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	-17 (-5.6%)	0 (0%)
	C	-75 (-25%)	0 (0%)
	All	-63 (-17.5%)	-21 (-6.6%)
DEC	W	-181 (-16.9%)	54 (6.4%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-50 (-16.7%)	-25 (-9%)
	All	-65 (-11.9%)	13 (2.9%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.5.1.6 Clear Creek below Whiskeytown**2 **Table 11. Mean Monthly Flows (cfs) for Model Scenarios in Clear Creek Below Whiskeytown,**
3 **Year-Round**

Alternative 5: Upstream—Clear Creek below Whiskeytown				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	220	339	339
	AN	192	192	192
	BN	189	189	189
	D	184	192	192
	C	155	159	171
	All	193	233	235
FEB	W	220	257	257
	AN	197	196	196
	BN	189	189	189
	D	184	192	192
	C	155	168	168
	All	194	209	209
MAR	W	200	259	258
	AN	197	196	196
	BN	189	202	189
	D	186	192	192
	C	155	168	171
	All	188	212	210
APR	W	200	200	200
	AN	197	196	196
	BN	189	189	189
	D	188	192	192
	C	155	168	171
	All	189	191	191
MAY	W	277	277	277
	AN	277	277	277
	BN	263	269	269
	D	264	264	264
	C	211	224	224
	All	262	265	265
JUN	W	200	200	200
	AN	200	200	200
	BN	181	186	186
	D	180	180	180
	C	115	131	131
	All	180	183	183
JUL	W	85	85	85
	AN	85	85	85
	BN	85	85	85
	D	85	85	85
	C	85	85	85
	All	85	85	85

Alternative 5: Upstream—Clear Creek below Whiskeytown				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LLТ
AUG	W	85	85	85
	AN	85	85	85
	BN	85	85	85
	D	85	85	85
	C	94	71	78
	All	86	83	84
SEP	W	150	150	150
	AN	150	150	150
	BN	150	150	150
	D	144	150	150
	C	133	96	96
	All	146	142	142
OCT	W	198	198	198
	AN	183	183	183
	BN	189	182	179
	D	175	183	175
	C	150	142	140
	All	182	182	179
NOV	W	198	198	198
	AN	185	182	182
	BN	184	189	189
	D	177	177	177
	C	155	145	158
	All	183	182	184
DEC	W	198	198	198
	AN	185	192	192
	BN	189	189	189
	D	177	189	189
	C	155	156	158
	All	184	187	188

1 **Table 12. Differences^a (Percent Differences) between Pairs of Model Scenarios in Clear Creek Below**
 2 **Whiskeytown, Year-Round**

Alternative 5: Upstream—Clear Creek below Whiskeytown			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
JAN	W	118 (53.6%)	0 (-0.1%)
	AN	0 (-0.1%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	7 (3.9%)	0 (0%)
	C	16 (10.2%)	12 (7.4%)
	All	41 (21.4%)	2 (0.7%)
FEB	W	38 (17.1%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	7 (3.9%)	0 (0%)
	C	13 (8.7%)	0 (0.3%)
	All	15 (7.9%)	0 (0%)
MAR	W	58 (29.2%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	-12 (-6.1%)
	D	6 (3.2%)	0 (0%)
	C	16 (10.2%)	3 (1.7%)
	All	22 (11.7%)	-2 (-0.8%)
APR	W	0 (0%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	3 (1.7%)	0 (0%)
	C	16 (10.2%)	3 (1.7%)
	All	3 (1.5%)	0 (0.2%)
MAY	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	6 (2.2%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	13 (6.2%)	0 (0%)
	All	3 (1.1%)	0 (0%)
JUN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	5 (2.6%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	16 (14.1%)	0 (0%)
	All	3 (1.8%)	0 (0%)
JUL	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)

Alternative 5: Upstream—Clear Creek below Whiskeytown			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1T	NAA vs. A5_LL1T
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-16 (-17.4%)	7 (10%)
	All	-2 (-2.8%)	1 (1.3%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	6 (3.8%)	0 (0%)
	C	-37 (-28.1%)	0 (0%)
	All	-4 (-2.9%)	0 (0%)
OCT	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	-11 (-5.7%)	-3 (-1.8%)
	D	0 (0%)	-8 (-4.5%)
	C	-10 (-6.8%)	-2 (-1.3%)
	All	-3 (-1.8%)	-3 (-1.5%)
NOV	W	0 (0%)	0 (0%)
	AN	-3 (-1.8%)	0 (0%)
	BN	6 (3.1%)	0 (0%)
	D	-1 (-0.4%)	0 (0%)
	C	3 (2.2%)	13 (8.8%)
	All	1 (0.5%)	2 (1%)
DEC	W	0 (0%)	0 (0%)
	AN	7 (3.6%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	12 (6.6%)	0 (0%)
	C	3 (2.2%)	3 (1.6%)
	All	4 (2.2%)	0 (0.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.5.1.7 Feather River Low-Flow Channel (Upstream of Thermalito**
 2 **Afterbay)**

3 **Table 13. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River Upstream of Thermalito**
 4 **Afterbay (Low-Flow Channel), Year-Round**

Alternative 5: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
FEB	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
MAR	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
APR	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
MAY	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
JUN	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700

Alternative 5: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JUL	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
AUG	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
SEP	W	773	773	773
	AN	773	773	773
	BN	773	773	773
	D	773	773	773
	C	773	773	773
	All	773	773	773
OCT	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
NOV	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
DEC	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800

1 **Table 14. Differences (Percent Differences) between Pairs of Model Scenarios in the Feather River**
 2 **Upstream of Thermalito Afterbay (Low-Flow Channel), Year-Round**

Alternative 5: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
JAN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
FEB	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
MAR	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
APR	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
MAY	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
JUN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
JUL	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)

Alternative 5: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
OCT	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
NOV	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
DEC	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)

1 **11C.5.1.8 Feather River High-Flow Channel (at Thermalito Afterbay)**

2 **Table 15. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at Thermalito Afterbay**
 3 **(High-Flow Channel), Year-Round**

Alternative 5: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LLT
JAN	W	11,257	11,896	12,002
	AN	4,434	2,838	2,756
	BN	2,640	1,441	1,456
	D	1,798	1,459	1,470
	C	1,459	1,648	1,447
	All	5,277	4,995	4,992
FEB	W	12,466	14,787	16,244
	AN	7,411	5,809	6,807
	BN	3,916	1,897	2,099
	D	1,817	1,659	1,793
	C	1,610	1,482	1,610
	All	6,340	6,444	7,134
MAR	W	12,895	14,772	14,732
	AN	7,733	8,568	10,097
	BN	3,373	1,985	1,771
	D	2,017	1,762	1,960
	C	1,697	1,634	1,757
	All	6,487	6,902	7,138
APR	W	6,472	6,408	6,403
	AN	2,251	2,170	2,167
	BN	1,205	1,203	1,613
	D	1,286	1,470	1,951
	C	1,389	1,407	1,728
	All	3,073	3,084	3,304
MAY	W	7,528	4,740	4,712
	AN	3,340	3,101	3,116
	BN	1,205	1,749	1,956
	D	1,591	2,223	2,410
	C	1,574	1,790	1,760
	All	3,661	3,005	3,071
JUN	W	5,062	4,211	5,525
	AN	3,301	3,930	5,591
	BN	2,707	3,552	5,039
	D	3,134	3,284	3,707
	C	2,695	2,666	2,674
	All	3,632	3,628	4,635
JUL	W	6,490	8,577	9,161
	AN	8,757	9,488	9,700
	BN	8,981	8,833	9,752
	D	8,294	8,099	6,599
	C	6,703	5,217	3,554
	All	7,674	8,157	7,958

Alternative 5: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LLT
AUG	W	3,308	6,228	4,995
	AN	6,042	7,346	7,149
	BN	6,295	6,868	6,417
	D	7,036	4,990	3,270
	C	2,613	2,163	1,733
	All	4,935	5,634	4,697
SEP	W	2,280	8,327	5,484
	AN	2,253	6,899	2,729
	BN	2,466	3,068	1,205
	D	2,366	1,052	959
	C	1,421	1,345	1,451
	All	2,201	4,601	2,767
OCT	W	3,456	3,051	3,163
	AN	2,386	2,741	3,407
	BN	3,183	2,862	3,188
	D	2,688	2,652	3,010
	C	2,472	2,102	3,088
	All	2,940	2,747	3,159
NOV	W	3,292	2,470	2,338
	AN	1,824	2,119	1,916
	BN	2,101	1,900	1,905
	D	1,859	1,664	1,702
	C	1,854	1,876	1,792
	All	2,349	2,058	1,983
DEC	W	7,157	3,948	4,792
	AN	2,951	3,344	2,965
	BN	2,176	2,102	2,259
	D	2,364	2,229	2,428
	C	2,609	1,694	2,182
	All	3,973	2,837	3,191

1 **Table 16. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Feather River at**
 2 **Thermalito Afterbay (High-Flow Channel), Year-Round**

Alternative 5: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
JAN	W	745 (6.6%)	107 (0.9%)
	AN	-1,677 (-37.8%)	-82 (-2.9%)
	BN	-1,184 (-44.8%)	15 (1%)
	D	-328 (-18.2%)	12 (0.8%)
	C	-12 (-0.8%)	-201 (-12.2%)
	All	-285 (-5.4%)	-2 (0%)
FEB	W	3,778 (30.3%)	1,457 (9.9%)
	AN	-603 (-8.1%)	999 (17.2%)
	BN	-1,817 (-46.4%)	202 (10.7%)
	D	-24 (-1.3%)	133 (8%)
	C	-1 (0%)	128 (8.7%)
	All	794 (12.5%)	691 (10.7%)
MAR	W	1,837 (14.2%)	-40 (-0.3%)
	AN	2,365 (30.6%)	1,529 (17.8%)
	BN	-1,602 (-47.5%)	-214 (-10.8%)
	D	-57 (-2.8%)	198 (11.2%)
	C	60 (3.5%)	123 (7.5%)
	All	651 (10%)	236 (3.4%)
APR	W	-69 (-1.1%)	-5 (-0.1%)
	AN	-84 (-3.7%)	-3 (-0.1%)
	BN	409 (33.9%)	410 (34.1%)
	D	665 (51.7%)	481 (32.7%)
	C	339 (24.4%)	321 (22.8%)
	All	231 (7.5%)	221 (7.2%)
MAY	W	-2,816 (-37.4%)	-28 (-0.6%)
	AN	-224 (-6.7%)	15 (0.5%)
	BN	750 (62.3%)	207 (11.9%)
	D	819 (51.5%)	187 (8.4%)
	C	186 (11.8%)	-30 (-1.7%)
	All	-590 (-16.1%)	66 (2.2%)
JUN	W	464 (9.2%)	1,315 (31.2%)
	AN	2,290 (69.4%)	1,661 (42.3%)
	BN	2,332 (86.2%)	1,487 (41.9%)
	D	573 (18.3%)	423 (12.9%)
	C	-21 (-0.8%)	8 (0.3%)
	All	1,003 (27.6%)	1,008 (27.8%)
JUL	W	2,670 (41.1%)	583 (6.8%)
	AN	943 (10.8%)	212 (2.2%)
	BN	771 (8.6%)	919 (10.4%)
	D	-1,695 (-20.4%)	-1,499 (-18.5%)
	C	-3,149 (-47%)	-1,663 (-31.9%)
	All	284 (3.7%)	-200 (-2.4%)

Alternative 5: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1T	NAA vs. A5_LL1T
AUG	W	1,687 (51%)	-1,233 (-19.8%)
	AN	1,106 (18.3%)	-197 (-2.7%)
	BN	122 (1.9%)	-451 (-6.6%)
	D	-3,767 (-53.5%)	-1,721 (-34.5%)
	C	-880 (-33.7%)	-430 (-19.9%)
	All	-238 (-4.8%)	-937 (-16.6%)
SEP	W	3,204 (140.5%)	-2,843 (-34.1%)
	AN	476 (21.1%)	-4,170 (-60.4%)
	BN	-1,261 (-51.1%)	-1,863 (-60.7%)
	D	-1,407 (-59.5%)	-93 (-8.8%)
	C	31 (2.2%)	107 (7.9%)
	All	566 (25.7%)	-1,835 (-39.9%)
OCT	W	-293 (-8.5%)	112 (3.7%)
	AN	1,021 (42.8%)	666 (24.3%)
	BN	5 (0.2%)	326 (11.4%)
	D	322 (12%)	358 (13.5%)
	C	616 (24.9%)	986 (46.9%)
	All	218 (7.4%)	412 (15%)
NOV	W	-955 (-29%)	-132 (-5.4%)
	AN	92 (5%)	-203 (-9.6%)
	BN	-196 (-9.3%)	5 (0.3%)
	D	-157 (-8.5%)	38 (2.3%)
	C	-62 (-3.3%)	-83 (-4.4%)
	All	-366 (-15.6%)	-75 (-3.6%)
DEC	W	-2,365 (-33%)	844 (21.4%)
	AN	14 (0.5%)	-379 (-11.3%)
	BN	83 (3.8%)	157 (7.5%)
	D	64 (2.7%)	198 (8.9%)
	C	-427 (-16.4%)	488 (28.8%)
	All	-782 (-19.7%)	354 (12.5%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.5.1.9 Feather River at Confluence with Sacramento River**

2 **Table 17. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at the Confluence with**
 3 **the Sacramento River, Year-Round**

Alternative 5: Upstream—Feather River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	23,533	26,106	26,217
	AN	12,430	11,953	11,875
	BN	6,499	5,575	5,592
	D	4,621	4,412	4,422
	C	3,646	3,837	3,648
	All	11,938	12,509	12,510
FEB	W	27,039	31,065	32,522
	AN	14,818	14,599	15,601
	BN	9,153	7,892	8,098
	D	4,402	4,436	4,574
	C	3,237	3,096	3,230
	All	13,744	14,761	15,454
MAR	W	24,172	26,784	26,750
	AN	19,990	21,490	23,018
	BN	8,136	6,882	6,671
	D	5,073	4,940	5,120
	C	2,933	2,756	2,871
	All	13,521	14,300	14,533
APR	W	15,897	15,852	15,854
	AN	9,832	9,585	9,578
	BN	5,401	5,189	5,606
	D	4,152	4,137	4,619
	C	3,298	3,185	3,513
	All	8,796	8,689	8,914
MAY	W	14,387	10,385	10,363
	AN	8,068	6,884	6,903
	BN	4,704	4,509	4,717
	D	3,652	3,767	3,953
	C	2,389	2,321	2,280
	All	7,697	6,237	6,303
JUN	W	10,222	7,199	8,510
	AN	6,391	5,598	7,263
	BN	4,495	4,342	5,832
	D	3,853	3,367	3,791
	C	2,782	2,522	2,531
	All	6,197	4,951	5,959
JUL	W	8,177	8,734	9,309
	AN	9,322	9,223	9,434
	BN	9,380	8,725	9,645
	D	8,290	7,674	6,178
	C	6,450	4,891	3,222
	All	8,322	8,009	7,806

Alternative 5: Upstream—Feather River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
AUG	W	4,923	7,222	5,946
	AN	7,080	8,089	7,893
	BN	7,236	7,570	7,122
	D	7,711	5,487	3,773
	C	2,841	2,340	1,958
	All	5,941	6,313	5,371
SEP	W	4,351	10,329	7,495
	AN	4,194	8,773	4,607
	BN	4,252	4,786	2,957
	D	4,179	2,848	2,756
	C	2,054	1,964	2,105
	All	3,937	6,289	4,468
OCT	W	4,176	3,746	3,876
	AN	2,630	2,988	3,657
	BN	3,754	3,437	3,760
	D	3,033	2,987	3,355
	C	2,938	2,566	3,558
	All	3,446	3,243	3,663
NOV	W	4,697	3,825	3,696
	AN	3,065	3,186	2,980
	BN	2,687	2,455	2,462
	D	2,342	2,125	2,164
	C	2,084	2,107	2,005
	All	3,216	2,873	2,797
DEC	W	12,409	10,246	11,091
	AN	5,193	6,000	5,623
	BN	3,079	3,249	3,410
	D	2,838	2,811	3,009
	C	2,975	2,054	2,549
	All	6,279	5,599	5,955

1 **Table 18. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Feather River at**
 2 **the Confluence with the Sacramento River, Year-Round**

Alternative 5: Upstream—Feather River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
JAN	W	2,684 (11.4%)	111 (0.4%)
	AN	-555 (-4.5%)	-78 (-0.7%)
	BN	-907 (-14%)	17 (0.3%)
	D	-199 (-4.3%)	10 (0.2%)
	C	2 (0.1%)	-189 (-4.9%)
	All	571 (4.8%)	1 (0%)
FEB	W	5,484 (20.3%)	1,458 (4.7%)
	AN	783 (5.3%)	1,002 (6.9%)
	BN	-1,055 (-11.5%)	205 (2.6%)
	D	172 (3.9%)	138 (3.1%)
	C	-7 (-0.2%)	134 (4.3%)
	All	1,710 (12.4%)	694 (4.7%)
MAR	W	2,578 (10.7%)	-34 (-0.1%)
	AN	3,027 (15.1%)	1,528 (7.1%)
	BN	-1,464 (-18%)	-210 (-3.1%)
	D	47 (0.9%)	180 (3.6%)
	C	-62 (-2.1%)	115 (4.2%)
	All	1,012 (7.5%)	233 (1.6%)
APR	W	-43 (-0.3%)	2 (0%)
	AN	-255 (-2.6%)	-7 (-0.1%)
	BN	205 (3.8%)	417 (8%)
	D	468 (11.3%)	483 (11.7%)
	C	215 (6.5%)	328 (10.3%)
	All	118 (1.3%)	225 (2.6%)
MAY	W	-4,023 (-28%)	-22 (-0.2%)
	AN	-1,165 (-14.4%)	20 (0.3%)
	BN	13 (0.3%)	209 (4.6%)
	D	301 (8.3%)	186 (4.9%)
	C	-109 (-4.5%)	-41 (-1.8%)
	All	-1,394 (-18.1%)	66 (1.1%)
JUN	W	-1,712 (-16.7%)	1,311 (18.2%)
	AN	872 (13.6%)	1,666 (29.8%)
	BN	1,337 (29.7%)	1,490 (34.3%)
	D	-62 (-1.6%)	424 (12.6%)
	C	-251 (-9%)	9 (0.3%)
	All	-237 (-3.8%)	1,008 (20.4%)
JUL	W	1,132 (13.8%)	574 (6.6%)
	AN	112 (1.2%)	211 (2.3%)
	BN	265 (2.8%)	920 (10.5%)
	D	-2,112 (-25.5%)	-1,496 (-19.5%)
	C	-3,229 (-50.1%)	-1,670 (-34.1%)
	All	-516 (-6.2%)	-203 (-2.5%)

Alternative 5: Upstream—Feather River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
AUG	W	1,023 (20.8%)	-1,276 (-17.7%)
	AN	813 (11.5%)	-196 (-2.4%)
	BN	-113 (-1.6%)	-448 (-5.9%)
	D	-3,939 (-51.1%)	-1,715 (-31.3%)
	C	-883 (-31.1%)	-382 (-16.3%)
	All	-570 (-9.6%)	-942 (-14.9%)
SEP	W	3,144 (72.2%)	-2,834 (-27.4%)
	AN	413 (9.8%)	-4,166 (-47.5%)
	BN	-1,295 (-30.5%)	-1,829 (-38.2%)
	D	-1,423 (-34%)	-92 (-3.2%)
	C	50 (2.5%)	141 (7.2%)
	All	531 (13.5%)	-1,820 (-28.9%)
OCT	W	-300 (-7.2%)	130 (3.5%)
	AN	1,027 (39%)	669 (22.4%)
	BN	6 (0.2%)	322 (9.4%)
	D	322 (10.6%)	368 (12.3%)
	C	620 (21.1%)	993 (38.7%)
	All	218 (6.3%)	420 (13%)
NOV	W	-1,001 (-21.3%)	-129 (-3.4%)
	AN	-85 (-2.8%)	-206 (-6.5%)
	BN	-225 (-8.4%)	7 (0.3%)
	D	-178 (-7.6%)	40 (1.9%)
	C	-79 (-3.8%)	-102 (-4.8%)
	All	-419 (-13%)	-76 (-2.7%)
DEC	W	-1,318 (-10.6%)	845 (8.2%)
	AN	430 (8.3%)	-377 (-6.3%)
	BN	330 (10.7%)	161 (4.9%)
	D	172 (6%)	198 (7%)
	C	-426 (-14.3%)	495 (24.1%)
	All	-323 (-5.1%)	356 (6.4%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.5.1.10 American River at Nimbus Dam**

2 **Table 19. Mean Monthly Flows (cfs) for Model Scenarios in the American River at Nimbus Dam,**
 3 **Year-Round**

Alternative 5: Upstream—American River at Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	8,806	11,036	11,070
	AN	4,833	5,805	5,705
	BN	2,392	2,073	1,997
	D	1,723	1,506	1,388
	C	1,474	1,095	1,204
	All	4,502	5,194	5,167
FEB	W	9,294	11,102	11,104
	AN	6,469	8,153	8,242
	BN	4,360	4,961	4,846
	D	1,852	1,844	2,026
	C	1,185	1,007	993
	All	5,218	6,112	6,144
MAR	W	6,089	6,992	6,992
	AN	5,454	5,790	5,800
	BN	2,429	2,794	2,770
	D	2,191	2,314	2,276
	C	939	938	895
	All	3,762	4,187	4,169
APR	W	5,300	5,508	5,507
	AN	3,546	3,298	3,297
	BN	3,126	2,970	2,957
	D	1,837	1,888	1,947
	C	1,156	1,255	1,300
	All	3,305	3,334	3,351
MAY	W	6,157	4,592	4,632
	AN	3,885	2,521	2,687
	BN	2,930	1,969	2,267
	D	1,790	1,686	1,943
	C	1,182	992	1,006
	All	3,587	2,676	2,823
JUN	W	6,003	3,694	4,223
	AN	3,346	3,022	3,350
	BN	2,863	2,883	3,417
	D	2,506	2,596	2,828
	C	1,824	1,025	1,471
	All	3,699	2,825	3,249
JUL	W	4,108	3,860	3,896
	AN	4,638	4,927	4,448
	BN	4,744	4,328	4,237
	D	3,577	3,143	3,237
	C	1,784	2,022	2,380
	All	3,838	3,670	3,668

Alternative 5: Upstream—American River at Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
AUG	W	3,520	2,132	2,019
	AN	2,542	1,944	1,993
	BN	2,495	2,324	1,911
	D	2,613	1,620	1,284
	C	1,500	1,100	717
	All	2,707	1,874	1,645
SEP	W	4,025	3,622	3,336
	AN	2,764	2,044	2,165
	BN	2,370	1,605	1,378
	D	1,856	1,182	1,170
	C	1,164	594	691
	All	2,663	2,068	1,968
OCT	W	1,723	1,634	1,486
	AN	1,706	1,732	1,494
	BN	1,602	1,767	2,037
	D	1,468	1,258	1,332
	C	1,461	1,655	1,472
	All	1,605	1,592	1,545
NOV	W	3,527	2,612	2,501
	AN	3,181	2,554	2,324
	BN	2,067	1,716	1,570
	D	2,176	1,424	1,496
	C	1,994	1,608	1,576
	All	2,706	2,043	1,960
DEC	W	6,302	6,171	6,009
	AN	3,137	2,933	2,874
	BN	2,676	2,527	2,444
	D	1,741	1,351	1,368
	C	1,524	1,251	1,227
	All	3,519	3,297	3,223

1 **Table 20. Differences^a (Percent Differences) between Pairs of Model Scenarios in the American River**
 2 **at Nimbus Dam, Year-Round**

Alternative 5: Upstream—American River at Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
JAN	W	2,264 (25.7%)	34 (0.3%)
	AN	873 (18.1%)	-100 (-1.7%)
	BN	-395 (-16.5%)	-76 (-3.6%)
	D	-335 (-19.5%)	-118 (-7.9%)
	C	-270 (-18.3%)	109 (10%)
	All	665 (14.8%)	-27 (-0.5%)
FEB	W	1,810 (19.5%)	2 (0%)
	AN	1,773 (27.4%)	90 (1.1%)
	BN	487 (11.2%)	-115 (-2.3%)
	D	174 (9.4%)	182 (9.9%)
	C	-192 (-16.2%)	-13 (-1.3%)
	All	926 (17.8%)	32 (0.5%)
MAR	W	904 (14.8%)	0 (0%)
	AN	346 (6.4%)	9 (0.2%)
	BN	341 (14%)	-24 (-0.9%)
	D	85 (3.9%)	-38 (-1.6%)
	C	-44 (-4.7%)	-43 (-4.6%)
	All	408 (10.8%)	-17 (-0.4%)
APR	W	207 (3.9%)	-2 (0%)
	AN	-249 (-7%)	-2 (0%)
	BN	-168 (-5.4%)	-12 (-0.4%)
	D	110 (6%)	59 (3.1%)
	C	144 (12.5%)	44 (3.5%)
	All	46 (1.4%)	17 (0.5%)
MAY	W	-1,524 (-24.8%)	40 (0.9%)
	AN	-1,198 (-30.8%)	166 (6.6%)
	BN	-663 (-22.6%)	298 (15.2%)
	D	154 (8.6%)	257 (15.3%)
	C	-176 (-14.9%)	14 (1.4%)
	All	-764 (-21.3%)	147 (5.5%)
JUN	W	-1,780 (-29.7%)	530 (14.3%)
	AN	4 (0.1%)	328 (10.8%)
	BN	553 (19.3%)	534 (18.5%)
	D	322 (12.8%)	232 (8.9%)
	C	-353 (-19.3%)	447 (43.6%)
	All	-450 (-12.2%)	423 (15%)
JUL	W	-213 (-5.2%)	35 (0.9%)
	AN	-190 (-4.1%)	-479 (-9.7%)
	BN	-507 (-10.7%)	-91 (-2.1%)
	D	-340 (-9.5%)	94 (3%)
	C	596 (33.4%)	358 (17.7%)
	All	-169 (-4.4%)	-1 (0%)

Alternative 5: Upstream—American River at Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1T	NAA vs. A5_LL1T
AUG	W	-1,501 (-42.7%)	-113 (-5.3%)
	AN	-549 (-21.6%)	48 (2.5%)
	BN	-584 (-23.4%)	-413 (-17.8%)
	D	-1,329 (-50.9%)	-336 (-20.7%)
	C	-784 (-52.2%)	-383 (-34.9%)
	All	-1,062 (-39.2%)	-229 (-12.2%)
SEP	W	-688 (-17.1%)	-286 (-7.9%)
	AN	-600 (-21.7%)	121 (5.9%)
	BN	-992 (-41.9%)	-227 (-14.1%)
	D	-686 (-36.9%)	-11 (-1%)
	C	-474 (-40.7%)	97 (16.3%)
	All	-695 (-26.1%)	-100 (-4.8%)
OCT	W	-237 (-13.7%)	-148 (-9.1%)
	AN	-212 (-12.4%)	-238 (-13.7%)
	BN	435 (27.2%)	271 (15.3%)
	D	-136 (-9.3%)	74 (5.9%)
	C	11 (0.8%)	-183 (-11%)
	All	-60 (-3.7%)	-46 (-2.9%)
NOV	W	-1,026 (-29.1%)	-112 (-4.3%)
	AN	-857 (-26.9%)	-230 (-9%)
	BN	-497 (-24%)	-146 (-8.5%)
	D	-681 (-31.3%)	72 (5%)
	C	-418 (-21%)	-32 (-2%)
	All	-746 (-27.6%)	-83 (-4.1%)
DEC	W	-292 (-4.6%)	-162 (-2.6%)
	AN	-263 (-8.4%)	-59 (-2%)
	BN	-231 (-8.6%)	-82 (-3.3%)
	D	-372 (-21.4%)	17 (1.3%)
	C	-297 (-19.5%)	-24 (-2%)
	All	-296 (-8.4%)	-74 (-2.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.5.1.11 American River at Confluence with Sacramento River**

2 **Table 21. Mean Monthly Flows (cfs) for Model Scenarios in the American River at the Confluence with**
 3 **the Sacramento River, Year-Round**

Alternative 5: Upstream—American River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LLТ
JAN	W	8,748	10,960	10,995
	AN	4,806	5,760	5,661
	BN	2,326	1,988	1,913
	D	1,654	1,424	1,306
	C	1,403	1,008	1,125
	All	4,443	5,118	5,093
FEB	W	9,183	10,947	10,948
	AN	6,422	8,073	8,163
	BN	4,309	4,888	4,774
	D	1,781	1,756	1,939
	C	1,119	921	918
	All	5,142	6,007	6,041
MAR	W	5,979	6,837	6,837
	AN	5,364	5,661	5,670
	BN	2,340	2,672	2,650
	D	2,121	2,224	2,184
	C	864	836	806
	All	3,672	4,063	4,047
APR	W	5,156	5,300	5,298
	AN	3,383	3,079	3,078
	BN	2,984	2,778	2,766
	D	1,672	1,677	1,735
	C	996	1,059	1,104
	All	3,152	3,128	3,145
MAY	W	5,959	4,332	4,373
	AN	3,700	2,285	2,451
	BN	2,733	1,726	2,025
	D	1,605	1,454	1,711
	C	1,014	790	804
	All	3,398	2,438	2,584
JUN	W	5,743	3,388	3,918
	AN	3,103	2,736	3,062
	BN	2,631	2,603	3,134
	D	2,282	2,320	2,549
	C	1,621	793	1,240
	All	3,462	2,545	2,966
JUL	W	3,844	3,560	3,591
	AN	4,399	4,635	4,153
	BN	4,509	4,038	3,943
	D	3,347	2,858	2,950
	C	1,568	1,784	2,137
	All	3,597	3,385	3,380

Alternative 5: Upstream—American River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LLТ
AUG	W	3,295	1,858	1,744
	AN	2,313	1,663	1,716
	BN	2,265	2,048	1,636
	D	2,395	1,357	1,023
	C	1,314	899	516
	All	2,488	1,612	1,384
SEP	W	3,846	3,415	3,130
	AN	2,594	1,838	1,958
	BN	2,205	1,402	1,179
	D	1,691	987	979
	C	1,011	427	529
	All	2,495	1,870	1,773
OCT	W	1,607	1,499	1,351
	AN	1,597	1,613	1,368
	BN	1,472	1,617	1,897
	D	1,344	1,114	1,189
	C	1,342	1,517	1,335
	All	1,486	1,454	1,409
NOV	W	3,472	2,540	2,430
	AN	3,100	2,455	2,227
	BN	1,990	1,618	1,470
	D	2,094	1,326	1,397
	C	1,897	1,489	1,459
	All	2,632	1,950	1,867
DEC	W	6,255	6,115	5,954
	AN	3,072	2,856	2,799
	BN	2,609	2,445	2,364
	D	1,675	1,275	1,292
	C	1,443	1,158	1,140
	All	3,457	3,224	3,152

1 **Table 22. Differences^a (Percent Differences) between Pairs of Model Scenarios in the American River**
 2 **at the Confluence with the Sacramento River, Year-Round**

Alternative 5: Upstream—American River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
JAN	W	2,248 (25.7%)	35 (0.3%)
	AN	856 (17.8%)	-99 (-1.7%)
	BN	-413 (-17.7%)	-75 (-3.8%)
	D	-348 (-21.1%)	-118 (-8.3%)
	C	-278 (-19.8%)	117 (11.7%)
	All	650 (14.6%)	-25 (-0.5%)
FEB	W	1,766 (19.2%)	1 (0%)
	AN	1,740 (27.1%)	90 (1.1%)
	BN	465 (10.8%)	-114 (-2.3%)
	D	159 (8.9%)	183 (10.4%)
	C	-201 (-18%)	-3 (-0.4%)
	All	899 (17.5%)	34 (0.6%)
MAR	W	857 (14.3%)	0 (0%)
	AN	305 (5.7%)	9 (0.2%)
	BN	310 (13.3%)	-23 (-0.9%)
	D	63 (3%)	-40 (-1.8%)
	C	-59 (-6.8%)	-31 (-3.7%)
	All	375 (10.2%)	-16 (-0.4%)
APR	W	142 (2.8%)	-2 (0%)
	AN	-305 (-9%)	-1 (0%)
	BN	-218 (-7.3%)	-12 (-0.4%)
	D	63 (3.8%)	59 (3.5%)
	C	108 (10.9%)	45 (4.2%)
	All	-7 (-0.2%)	17 (0.5%)
MAY	W	-1,586 (-26.6%)	40 (0.9%)
	AN	-1,248 (-33.7%)	166 (7.3%)
	BN	-709 (-25.9%)	298 (17.3%)
	D	106 (6.6%)	257 (17.7%)
	C	-209 (-20.6%)	14 (1.8%)
	All	-814 (-24%)	147 (6%)
JUN	W	-1,825 (-31.8%)	529 (15.6%)
	AN	-41 (-1.3%)	326 (11.9%)
	BN	503 (19.1%)	531 (20.4%)
	D	267 (11.7%)	229 (9.9%)
	C	-382 (-23.6%)	447 (56.3%)
	All	-496 (-14.3%)	422 (16.6%)
JUL	W	-253 (-6.6%)	31 (0.9%)
	AN	-245 (-5.6%)	-482 (-10.4%)
	BN	-566 (-12.6%)	-96 (-2.4%)
	D	-397 (-11.9%)	92 (3.2%)
	C	569 (36.3%)	354 (19.8%)
	All	-217 (-6%)	-5 (-0.2%)

Alternative 5: Upstream—American River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
AUG	W	-1,550 (-47.1%)	-114 (-6.1%)
	AN	-597 (-25.8%)	53 (3.2%)
	BN	-629 (-27.8%)	-412 (-20.1%)
	D	-1,371 (-57.3%)	-333 (-24.6%)
	C	-798 (-60.8%)	-384 (-42.7%)
	All	-1,104 (-44.4%)	-228 (-14.1%)
SEP	W	-716 (-18.6%)	-285 (-8.3%)
	AN	-636 (-24.5%)	121 (6.6%)
	BN	-1,026 (-46.5%)	-223 (-15.9%)
	D	-712 (-42.1%)	-8 (-0.8%)
	C	-482 (-47.7%)	102 (23.8%)
	All	-722 (-28.9%)	-98 (-5.2%)
OCT	W	-256 (-15.9%)	-147 (-9.8%)
	AN	-228 (-14.3%)	-244 (-15.1%)
	BN	425 (28.8%)	280 (17.3%)
	D	-155 (-11.5%)	75 (6.7%)
	C	-7 (-0.5%)	-182 (-12%)
	All	-77 (-5.2%)	-45 (-3.1%)
NOV	W	-1,042 (-30%)	-110 (-4.3%)
	AN	-873 (-28.2%)	-228 (-9.3%)
	BN	-520 (-26.1%)	-148 (-9.2%)
	D	-697 (-33.3%)	71 (5.4%)
	C	-438 (-23.1%)	-30 (-2%)
	All	-764 (-29%)	-82 (-4.2%)
DEC	W	-301 (-4.8%)	-160 (-2.6%)
	AN	-272 (-8.9%)	-57 (-2%)
	BN	-245 (-9.4%)	-81 (-3.3%)
	D	-383 (-22.9%)	17 (1.3%)
	C	-303 (-21%)	-18 (-1.6%)
	All	-305 (-8.8%)	-72 (-2.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.5.1.12 Stanislaus River at the Confluence with the San Joaquin River**

2 **Table 23. Mean Monthly Flows (cfs) for Model Scenarios in the Stanislaus River at the Confluence with**
 3 **the San Joaquin River, Year-Round**

Alternative 5: Upstream—Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT^a	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	956	885	885
	AN	843	963	963
	BN	416	369	369
	D	403	366	366
	C	314	265	265
	All	635	615	615
FEB	W	1,285	1,236	1,239
	AN	917	858	858
	BN	551	438	438
	D	562	359	359
	C	490	348	348
	All	827	723	724
MAR	W	2,063	2,217	2,217
	AN	1,295	956	956
	BN	732	548	548
	D	559	390	390
	C	541	444	444
	All	1,167	1,071	1,071
APR	W	2,054	1,965	1,965
	AN	1,719	1,535	1,535
	BN	1,494	1,211	1,211
	D	1,438	1,199	1,198
	C	823	670	670
	All	1,562	1,387	1,387
MAY	W	1,653	1,613	1,614
	AN	1,389	1,243	1,243
	BN	1,238	898	898
	D	1,140	916	916
	C	715	627	626
	All	1,271	1,125	1,124
JUN	W	1,608	1,763	1,761
	AN	1,134	985	984
	BN	663	568	567
	D	447	364	365
	C	332	296	292
	All	932	914	912
JUL	W	1,064	1,080	1,080
	AN	489	454	454
	BN	450	425	425
	D	398	359	360
	C	337	310	311
	All	607	590	590

Alternative 5: Upstream—Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT^a	EXISTING CONDITIONS	NAA	A5_LL^T
AUG	W	930	717	717
	AN	476	454	454
	BN	423	418	418
	D	387	382	382
	C	341	338	338
	All	560	491	491
SEP	W	1,040	863	863
	AN	502	474	474
	BN	417	407	407
	D	395	390	390
	C	324	317	330
	All	595	533	536
OCT	W	897	845	846
	AN	873	822	825
	BN	903	844	844
	D	984	925	925
	C	689	612	613
	All	867	808	808
NOV	W	426	408	408
	AN	580	524	524
	BN	341	334	334
	D	345	321	321
	C	325	308	308
	All	410	386	386
DEC	W	512	429	418
	AN	722	697	697
	BN	331	353	353
	D	317	294	294
	C	289	272	272
	All	450	417	414

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 24. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Stanislaus River**
 2 **at the Confluence with the San Joaquin River, Year-Round**

Alternative 5: Upstream—Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT^b	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
JAN	W	-71 (-7.4%)	0 (0%)
	AN	120 (14.3%)	0 (0%)
	BN	-47 (-11.3%)	0 (0%)
	D	-37 (-9.1%)	0 (0%)
	C	-49 (-15.5%)	0 (0%)
	All	-20 (-3.2%)	0 (0%)
FEB	W	-46 (-3.6%)	3 (0.2%)
	AN	-59 (-6.4%)	0 (0%)
	BN	-113 (-20.6%)	0 (-0.1%)
	D	-203 (-36.1%)	0 (0%)
	C	-142 (-29%)	0 (0%)
	All	-103 (-12.4%)	1 (0.1%)
MAR	W	154 (7.5%)	0 (0%)
	AN	-339 (-26.2%)	0 (0%)
	BN	-185 (-25.2%)	0 (0%)
	D	-169 (-30.2%)	0 (0%)
	C	-97 (-17.9%)	0 (0%)
	All	-96 (-8.2%)	0 (0%)
APR	W	-89 (-4.3%)	0 (0%)
	AN	-185 (-10.7%)	0 (0%)
	BN	-283 (-18.9%)	0 (0%)
	D	-240 (-16.7%)	0 (0%)
	C	-153 (-18.6%)	0 (0%)
	All	-175 (-11.2%)	0 (0%)
MAY	W	-39 (-2.4%)	0 (0%)
	AN	-146 (-10.5%)	0 (0%)
	BN	-340 (-27.5%)	0 (0%)
	D	-225 (-19.7%)	0 (0%)
	C	-89 (-12.5%)	-1 (-0.2%)
	All	-147 (-11.6%)	0 (0%)
JUN	W	154 (9.6%)	-1 (-0.1%)
	AN	-150 (-13.2%)	-1 (-0.1%)
	BN	-96 (-14.4%)	-1 (-0.2%)
	D	-82 (-18.4%)	0 (0%)
	C	-39 (-11.9%)	-3 (-1.1%)
	All	-20 (-2.2%)	-1 (-0.1%)
JUL	W	16 (1.5%)	0 (0%)
	AN	-35 (-7.2%)	0 (0%)
	BN	-25 (-5.5%)	0 (0%)
	D	-38 (-9.6%)	0 (0.1%)
	C	-25 (-7.5%)	1 (0.3%)
	All	-17 (-2.8%)	0 (0%)

Alternative 5: Upstream—Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT^b	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
AUG	W	-212 (-22.8%)	0 (0%)
	AN	-22 (-4.6%)	0 (0%)
	BN	-4 (-1%)	0 (0%)
	D	-5 (-1.2%)	0 (0%)
	C	-3 (-1%)	0 (0%)
	All	-68 (-12.2%)	0 (0%)
SEP	W	-177 (-17%)	0 (0%)
	AN	-28 (-5.6%)	0 (0%)
	BN	-10 (-2.4%)	0 (0%)
	D	-5 (-1.3%)	0 (0%)
	C	6 (1.9%)	14 (4.3%)
	All	-59 (-9.9%)	3 (0.5%)
OCT	W	-52 (-5.8%)	0 (0.1%)
	AN	-49 (-5.6%)	2 (0.3%)
	BN	-59 (-6.5%)	0 (0%)
	D	-59 (-6%)	0 (0%)
	C	-76 (-11%)	0 (0.1%)
	All	-58 (-6.7%)	1 (0.1%)
NOV	W	-18 (-4.3%)	0 (0%)
	AN	-56 (-9.7%)	0 (0%)
	BN	-8 (-2.3%)	0 (0%)
	D	-23 (-6.7%)	0 (0%)
	C	-16 (-5.1%)	0 (0%)
	All	-24 (-5.9%)	0 (0%)
DEC	W	-94 (-18.4%)	-11 (-2.5%)
	AN	-25 (-3.5%)	0 (0%)
	BN	23 (6.8%)	0 (0%)
	D	-23 (-7.3%)	0 (0%)
	C	-16 (-5.7%)	0 (0%)
	All	-36 (-8%)	-3 (-0.8%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.5.2 In Delta**

2 **11C.5.2.1 OMR Flow (Old and Middle Rivers)**

3 **Table 25. Mean Monthly Flows (cfs) for Model Scenarios in the Old and Middle Rivers, Year-Round**

Alternative 5: In Delta—OMR Flow (Old and Middle Rivers)				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	-1,820	-1,606	-1,023
	AN	-3,553	-3,446	-3,090
	BN	-4,240	-3,803	-3,734
	D	-4,664	-4,675	-3,865
	C	-4,130	-3,684	-2,540
	All	-3,449	-3,228	-2,634
FEB	W	-2,365	-2,293	-1,070
	AN	-3,274	-3,147	-2,437
	BN	-3,437	-3,290	-2,698
	D	-3,986	-3,502	-3,338
	C	-3,191	-3,047	-3,157
	All	-3,158	-2,964	-2,351
MAR	W	-1,600	-1,454	-272
	AN	-4,251	-3,815	-3,011
	BN	-4,147	-3,834	-3,387
	D	-2,852	-2,614	-2,412
	C	-2,010	-1,636	-1,639
	All	-2,758	-2,487	-1,874
APR	W	2,431	2,415	2,478
	AN	1,058	787	794
	BN	677	214	-7
	D	-268	-615	-954
	C	-950	-845	-984
	All	843	659	547
MAY	W	1,651	1,555	1,839
	AN	509	396	415
	BN	272	-237	-273
	D	-647	-1,010	-1,005
	C	-1,020	-911	-742
	All	353	155	268
JUN	W	-4,164	-4,369	-4,285
	AN	-4,761	-4,454	-4,250
	BN	-4,154	-3,420	-3,518
	D	-3,301	-2,592	-2,376
	C	-2,250	-2,143	-1,912
	All	-3,780	-3,504	-3,383

Alternative 5: In Delta—OMR Flow (Old and Middle Rivers)				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JUL	W	-8,959	-8,699	-8,459
	AN	-9,919	-7,962	-8,381
	BN	-10,853	-9,942	-9,443
	D	-10,891	-9,505	-6,872
	C	-8,058	-5,234	-3,270
	All	-9,715	-8,473	-7,508
AUG	W	-10,062	-10,518	-7,231
	AN	-10,348	-10,985	-8,718
	BN	-10,044	-9,374	-7,020
	D	-10,122	-7,259	-3,956
	C	-4,384	-3,192	-2,764
	All	-9,283	-8,604	-6,040
SEP	W	-9,317	-7,580	-1,729
	AN	-9,163	-9,002	-2,100
	BN	-8,575	-8,392	-4,621
	D	-8,081	-5,165	-3,574
	C	-4,807	-3,966	-2,259
	All	-8,236	-6,868	-2,760
OCT	W	-8,347	-5,049	-3,334
	AN	-7,643	-3,648	-2,779
	BN	-7,804	-4,793	-2,599
	D	-6,961	-4,103	-2,913
	C	-6,440	-3,920	-2,796
	All	-7,568	-4,427	-2,956
NOV	W	-8,902	-6,527	-3,557
	AN	-7,264	-6,003	-3,685
	BN	-7,997	-5,542	-3,227
	D	-7,136	-5,007	-3,148
	C	-5,294	-4,389	-3,053
	All	-7,592	-5,636	-3,356
DEC	W	-5,542	-5,591	-5,304
	AN	-6,987	-7,050	-6,790
	BN	-7,304	-7,040	-6,966
	D	-7,214	-7,006	-7,764
	C	-6,166	-4,173	-4,995
	All	-6,513	-6,155	-6,300

1 **Table 26. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Old and Middle**
 2 **Rivers, Year-Round**

Alternative 5: In Delta—OMR Flow (Old and Middle Rivers)			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
JAN	W	796 (43.8%)	582 (36.3%)
	AN	463 (13%)	356 (10.3%)
	BN	506 (11.9%)	68 (1.8%)
	D	799 (17.1%)	811 (17.3%)
	C	1,590 (38.5%)	1,144 (31.1%)
	All	814 (23.6%)	594 (18.4%)
FEB	W	1,295 (54.8%)	1,223 (53.3%)
	AN	837 (25.6%)	710 (22.5%)
	BN	739 (21.5%)	592 (18%)
	D	648 (16.3%)	164 (4.7%)
	C	34 (1.1%)	-110 (-3.6%)
	All	807 (25.5%)	613 (20.7%)
MAR	W	1,329 (83%)	1,182 (81.3%)
	AN	1,240 (29.2%)	804 (21.1%)
	BN	760 (18.3%)	447 (11.7%)
	D	441 (15.5%)	202 (7.7%)
	C	371 (18.5%)	-3 (-0.2%)
	All	884 (32%)	613 (24.6%)
APR	W	47 (1.9%)	63 (2.6%)
	AN	-264 (-25%)	7 (0.9%)
	BN	-684 (-101.1%)	-221 (-103.3%)
	D	-686 (-256%)	-339 (-55%)
	C	-34 (-3.5%)	-139 (-16.4%)
	All	-296 (-35.1%)	-111 (-16.9%)
MAY	W	188 (11.4%)	284 (18.2%)
	AN	-94 (-18.4%)	20 (5%)
	BN	-544 (-200.4%)	-35 (-14.8%)
	D	-358 (-55.4%)	5 (0.5%)
	C	278 (27.2%)	170 (18.6%)
	All	-85 (-24.1%)	113 (72.6%)
JUN	W	-121 (-2.9%)	84 (1.9%)
	AN	511 (10.7%)	204 (4.6%)
	BN	636 (15.3%)	-98 (-2.9%)
	D	924 (28%)	215 (8.3%)
	C	338 (15%)	231 (10.8%)
	All	397 (10.5%)	121 (3.4%)
JUL	W	500 (5.6%)	240 (2.8%)
	AN	1,538 (15.5%)	-419 (-5.3%)
	BN	1,410 (13%)	500 (5%)
	D	4,019 (36.9%)	2,633 (27.7%)
	C	4,787 (59.4%)	1,963 (37.5%)
	All	2,207 (22.7%)	965 (11.4%)

Alternative 5: In Delta—OMR Flow (Old and Middle Rivers)			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
AUG	W	2,831 (28.1%)	3,287 (31.3%)
	AN	1,630 (15.8%)	2,266 (20.6%)
	BN	3,024 (30.1%)	2,354 (25.1%)
	D	6,166 (60.9%)	3,303 (45.5%)
	C	1,621 (37%)	428 (13.4%)
	All	3,243 (34.9%)	2,564 (29.8%)
SEP	W	7,587 (81.4%)	5,851 (77.2%)
	AN	7,063 (77.1%)	6,902 (76.7%)
	BN	3,954 (46.1%)	3,771 (44.9%)
	D	4,507 (55.8%)	1,591 (30.8%)
	C	2,548 (53%)	1,707 (43%)
	All	5,477 (66.5%)	4,108 (59.8%)
OCT	W	5,013 (60.1%)	1,715 (34%)
	AN	4,864 (63.6%)	869 (23.8%)
	BN	5,205 (66.7%)	2,194 (45.8%)
	D	4,048 (58.1%)	1,190 (29%)
	C	3,644 (56.6%)	1,124 (28.7%)
	All	4,612 (60.9%)	1,471 (33.2%)
NOV	W	5,345 (60%)	2,970 (45.5%)
	AN	3,580 (49.3%)	2,319 (38.6%)
	BN	4,770 (59.6%)	2,315 (41.8%)
	D	3,988 (55.9%)	1,858 (37.1%)
	C	2,241 (42.3%)	1,336 (30.4%)
	All	4,236 (55.8%)	2,280 (40.5%)
DEC	W	237 (4.3%)	287 (5.1%)
	AN	198 (2.8%)	260 (3.7%)
	BN	338 (4.6%)	75 (1.1%)
	D	-550 (-7.6%)	-758 (-10.8%)
	C	1,171 (19%)	-822 (-19.7%)
	All	212 (3.3%)	-145 (-2.4%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.5.2.2 Sacramento River Downstream of North Delta Diversion Facility**

2 **Table 27. Mean Monthly Flows (cfs) for Model Scenarios for the Sacramento River Downstream of the**
 3 **North Delta Diversion Facility, Year-Round**

Alternative 5: In Delta—Sacramento River Downstream of North Delta Diversion Facility				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	50,961	52,878	49,145
	AN	39,863	40,484	36,016
	BN	23,781	22,653	20,282
	D	17,444	17,451	15,591
	C	14,281	15,073	13,962
	All	31,971	32,595	29,782
FEB	W	57,314	59,847	55,715
	AN	45,676	47,786	43,788
	BN	31,934	31,592	27,821
	D	21,202	21,107	19,346
	C	14,708	14,291	13,500
	All	37,116	38,087	35,046
MAR	W	49,416	50,993	45,934
	AN	44,495	45,088	40,636
	BN	24,489	22,915	19,149
	D	20,656	20,650	17,944
	C	13,245	13,137	12,499
	All	32,834	33,134	29,549
APR	W	37,809	37,543	32,697
	AN	25,979	24,931	21,217
	BN	17,752	17,128	15,607
	D	12,990	12,904	12,406
	C	10,229	10,365	10,469
	All	23,169	22,826	20,392
MAY	W	31,948	24,500	22,146
	AN	21,021	18,657	17,335
	BN	14,227	12,394	11,993
	D	10,959	11,427	11,775
	C	7,749	8,011	7,608
	All	19,175	16,295	15,304
JUN	W	23,900	18,603	18,047
	AN	16,309	16,051	15,515
	BN	13,576	13,898	14,335
	D	12,222	12,656	12,430
	C	9,884	10,123	9,541
	All	16,412	14,880	14,565
JUL	W	19,876	21,425	19,907
	AN	21,574	22,727	20,932
	BN	20,953	20,513	19,596
	D	19,272	18,957	15,476
	C	15,397	13,767	11,440
	All	19,520	19,797	17,792

Alternative 5: In Delta—Sacramento River Downstream of North Delta Diversion Facility				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
AUG	W	15,816	16,064	12,305
	AN	15,877	17,491	14,430
	BN	15,643	16,232	13,100
	D	16,965	14,351	9,655
	C	10,095	8,996	7,954
	All	15,210	14,891	11,533
SEP	W	18,254	27,212	21,999
	AN	13,198	21,006	14,678
	BN	12,427	12,306	8,230
	D	12,155	8,620	7,705
	C	8,485	7,292	8,144
	All	13,751	16,763	13,412
OCT	W	13,505	13,277	11,391
	AN	11,118	11,864	11,581
	BN	11,557	12,124	12,374
	D	10,279	10,487	9,765
	C	10,073	9,964	10,341
	All	11,613	11,776	11,076
NOV	W	19,447	19,285	16,257
	AN	15,309	15,925	12,551
	BN	12,574	13,037	10,073
	D	12,868	11,914	10,387
	C	9,633	9,295	8,183
	All	14,788	14,647	12,189
DEC	W	39,708	37,022	33,322
	AN	21,663	22,629	21,261
	BN	16,678	16,692	15,769
	D	15,442	15,159	14,862
	C	11,816	10,632	10,796
	All	23,727	22,784	21,211

1 **Table 28. Differences^a (Percent Differences) between Pairs of Model Scenarios for the Sacramento**
 2 **River Downstream of the North Delta Diversion Facility, Year-Round**

Alternative 5: In Delta—Sacramento River Downstream of North Delta Diversion Facility			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
JAN	W	-1,816 (-3.6%)	-3,733 (-7.1%)
	AN	-3,847 (-9.6%)	-4,468 (-11%)
	BN	-3,499 (-14.7%)	-2,370 (-10.5%)
	D	-1,852 (-10.6%)	-1,859 (-10.7%)
	C	-319 (-2.2%)	-1,111 (-7.4%)
	All	-2,189 (-6.8%)	-2,813 (-8.6%)
FEB	W	-1,599 (-2.8%)	-4,132 (-6.9%)
	AN	-1,888 (-4.1%)	-3,998 (-8.4%)
	BN	-4,113 (-12.9%)	-3,771 (-11.9%)
	D	-1,855 (-8.8%)	-1,761 (-8.3%)
	C	-1,207 (-8.2%)	-790 (-5.5%)
	All	-2,070 (-5.6%)	-3,041 (-8%)
MAR	W	-3,482 (-7%)	-5,059 (-9.9%)
	AN	-3,860 (-8.7%)	-4,453 (-9.9%)
	BN	-5,339 (-21.8%)	-3,765 (-16.4%)
	D	-2,712 (-13.1%)	-2,706 (-13.1%)
	C	-746 (-5.6%)	-638 (-4.9%)
	All	-3,285 (-10%)	-3,586 (-10.8%)
APR	W	-5,112 (-13.5%)	-4,846 (-12.9%)
	AN	-4,761 (-18.3%)	-3,714 (-14.9%)
	BN	-2,144 (-12.1%)	-1,521 (-8.9%)
	D	-584 (-4.5%)	-498 (-3.9%)
	C	240 (2.3%)	104 (1%)
	All	-2,777 (-12%)	-2,434 (-10.7%)
MAY	W	-9,802 (-30.7%)	-2,355 (-9.6%)
	AN	-3,685 (-17.5%)	-1,321 (-7.1%)
	BN	-2,234 (-15.7%)	-401 (-3.2%)
	D	816 (7.4%)	349 (3.1%)
	C	-141 (-1.8%)	-403 (-5%)
	All	-3,870 (-20.2%)	-991 (-6.1%)
JUN	W	-5,853 (-24.5%)	-556 (-3%)
	AN	-794 (-4.9%)	-537 (-3.3%)
	BN	760 (5.6%)	438 (3.1%)
	D	207 (1.7%)	-226 (-1.8%)
	C	-343 (-3.5%)	-582 (-5.7%)
	All	-1,847 (-11.3%)	-315 (-2.1%)
JUL	W	31 (0.2%)	-1,519 (-7.1%)
	AN	-642 (-3%)	-1,795 (-7.9%)
	BN	-1,357 (-6.5%)	-917 (-4.5%)
	D	-3,796 (-19.7%)	-3,481 (-18.4%)
	C	-3,957 (-25.7%)	-2,327 (-16.9%)
	All	-1,728 (-8.9%)	-2,005 (-10.1%)

Alternative 5: In Delta—Sacramento River Downstream of North Delta Diversion Facility			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
AUG	W	-3,510 (-22.2%)	-3,758 (-23.4%)
	AN	-1,447 (-9.1%)	-3,061 (-17.5%)
	BN	-2,542 (-16.3%)	-3,132 (-19.3%)
	D	-7,310 (-43.1%)	-4,696 (-32.7%)
	C	-2,141 (-21.2%)	-1,042 (-11.6%)
	All	-3,677 (-24.2%)	-3,358 (-22.5%)
SEP	W	3,745 (20.5%)	-5,214 (-19.2%)
	AN	1,480 (11.2%)	-6,328 (-30.1%)
	BN	-4,197 (-33.8%)	-4,076 (-33.1%)
	D	-4,450 (-36.6%)	-915 (-10.6%)
	C	-341 (-4%)	852 (11.7%)
	All	-339 (-2.5%)	-3,351 (-20%)
OCT	W	-2,114 (-15.7%)	-1,886 (-14.2%)
	AN	462 (4.2%)	-283 (-2.4%)
	BN	817 (7.1%)	250 (2.1%)
	D	-514 (-5%)	-722 (-6.9%)
	C	268 (2.7%)	377 (3.8%)
	All	-537 (-4.6%)	-700 (-5.9%)
NOV	W	-3,190 (-16.4%)	-3,028 (-15.7%)
	AN	-2,757 (-18%)	-3,374 (-21.2%)
	BN	-2,501 (-19.9%)	-2,963 (-22.7%)
	D	-2,482 (-19.3%)	-1,527 (-12.8%)
	C	-1,450 (-15.1%)	-1,113 (-12%)
	All	-2,599 (-17.6%)	-2,458 (-16.8%)
DEC	W	-6,386 (-16.1%)	-3,701 (-10%)
	AN	-402 (-1.9%)	-1,368 (-6%)
	BN	-908 (-5.4%)	-923 (-5.5%)
	D	-581 (-3.8%)	-297 (-2%)
	C	-1,020 (-8.6%)	164 (1.5%)
	All	-2,515 (-10.6%)	-1,572 (-6.9%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.5.2.3 Sacramento River at Rio Vista**2 **Table 29. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Rio Vista,**
3 **Year-Round**

Alternative 5: In Delta—Sacramento River at Rio Vista				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	71,111	78,551	76,732
	AN	41,963	42,919	40,528
	BN	20,943	19,991	19,579
	D	14,895	14,927	13,900
	C	11,853	12,601	12,041
	All	37,268	39,721	38,417
FEB	W	80,958	89,989	89,015
	AN	52,542	55,363	54,425
	BN	30,159	29,442	27,886
	D	19,320	19,422	18,796
	C	12,247	11,956	11,737
	All	44,541	47,675	46,794
MAR	W	63,763	68,663	66,357
	AN	46,750	48,513	47,699
	BN	20,980	19,562	17,492
	D	17,656	17,679	16,414
	C	10,710	10,684	10,532
	All	36,084	37,655	36,151
APR	W	38,214	38,422	36,318
	AN	22,726	21,855	20,085
	BN	14,652	14,207	13,401
	D	10,331	10,299	10,056
	C	7,665	7,816	8,017
	All	21,333	21,211	20,123
MAY	W	26,933	20,046	18,097
	AN	17,008	14,948	13,904
	BN	10,924	9,355	9,094
	D	8,135	8,564	8,956
	C	5,305	5,554	5,307
	All	15,456	12,833	12,068
JUN	W	16,557	11,418	10,893
	AN	9,887	9,220	8,881
	BN	7,001	7,241	7,638
	D	6,020	6,335	6,239
	C	4,333	4,513	4,192
	All	9,847	8,257	8,041
JUL	W	11,125	12,181	10,898
	AN	12,128	12,927	11,648
	BN	11,686	11,357	10,706
	D	10,523	10,307	7,872
	C	7,736	6,596	5,024
	All	10,739	10,921	9,451

Alternative 5: In Delta—Sacramento River at Rio Vista				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
AUG	W	8,507	8,650	5,994
	AN	8,538	9,648	7,473
	BN	8,371	8,753	6,548
	D	9,264	7,417	4,182
	C	4,390	3,615	3,108
	All	8,052	7,806	5,485
SEP	W	10,767	21,199	14,068
	AN	6,788	12,832	7,920
	BN	6,283	6,197	3,397
	D	6,116	3,644	3,038
	C	3,588	2,996	3,496
	All	7,348	10,896	7,378
OCT	W	8,718	8,287	6,855
	AN	6,183	7,207	7,148
	BN	6,258	6,976	7,564
	D	5,312	5,727	5,220
	C	5,215	4,969	5,410
	All	6,667	6,858	6,448
NOV	W	15,829	15,879	13,205
	AN	11,333	12,156	9,112
	BN	8,184	9,071	6,423
	D	8,733	8,061	6,736
	C	5,473	5,565	4,600
	All	10,793	10,946	8,769
DEC	W	43,367	40,431	39,535
	AN	19,040	19,936	18,938
	BN	13,987	14,049	13,308
	D	11,999	11,687	11,724
	C	8,131	7,186	7,461
	All	22,749	21,753	21,244

1 **Table 30. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento**
 2 **River at Rio Vista, Year-Round**

Alternative 5: In Delta—Sacramento River at Rio Vista			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1T	NAA vs. A5_LL1T
JAN	W	5,620 (7.9%)	-1,820 (-2.3%)
	AN	-1,435 (-3.4%)	-2,391 (-5.6%)
	BN	-1,363 (-6.5%)	-411 (-2.1%)
	D	-994 (-6.7%)	-1,027 (-6.9%)
	C	188 (1.6%)	-561 (-4.4%)
	All	1,148 (3.1%)	-1,305 (-3.3%)
FEB	W	8,057 (10%)	-974 (-1.1%)
	AN	1,883 (3.6%)	-938 (-1.7%)
	BN	-2,272 (-7.5%)	-1,556 (-5.3%)
	D	-523 (-2.7%)	-626 (-3.2%)
	C	-510 (-4.2%)	-219 (-1.8%)
	All	2,253 (5.1%)	-881 (-1.8%)
MAR	W	2,593 (4.1%)	-2,306 (-3.4%)
	AN	949 (2%)	-814 (-1.7%)
	BN	-3,488 (-16.6%)	-2,070 (-10.6%)
	D	-1,242 (-7%)	-1,265 (-7.2%)
	C	-179 (-1.7%)	-152 (-1.4%)
	All	67 (0.2%)	-1,504 (-4%)
APR	W	-1,896 (-5%)	-2,104 (-5.5%)
	AN	-2,641 (-11.6%)	-1,770 (-8.1%)
	BN	-1,251 (-8.5%)	-806 (-5.7%)
	D	-275 (-2.7%)	-243 (-2.4%)
	C	352 (4.6%)	201 (2.6%)
	All	-1,210 (-5.7%)	-1,088 (-5.1%)
MAY	W	-8,835 (-32.8%)	-1,949 (-9.7%)
	AN	-3,104 (-18.3%)	-1,044 (-7%)
	BN	-1,830 (-16.8%)	-261 (-2.8%)
	D	822 (10.1%)	393 (4.6%)
	C	2 (0%)	-247 (-4.4%)
	All	-3,387 (-21.9%)	-765 (-6%)
JUN	W	-5,663 (-34.2%)	-524 (-4.6%)
	AN	-1,006 (-10.2%)	-339 (-3.7%)
	BN	637 (9.1%)	397 (5.5%)
	D	219 (3.6%)	-96 (-1.5%)
	C	-141 (-3.2%)	-321 (-7.1%)
	All	-1,807 (-18.3%)	-216 (-2.6%)
JUL	W	-227 (-2%)	-1,283 (-10.5%)
	AN	-481 (-4%)	-1,280 (-9.9%)
	BN	-980 (-8.4%)	-651 (-5.7%)
	D	-2,651 (-25.2%)	-2,435 (-23.6%)
	C	-2,712 (-35.1%)	-1,572 (-23.8%)
	All	-1,288 (-12%)	-1,470 (-13.5%)

Alternative 5: In Delta—Sacramento River at Rio Vista			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1T	NAA vs. A5_LL1T
AUG	W	-2,513 (-29.5%)	-2,656 (-30.7%)
	AN	-1,064 (-12.5%)	-2,175 (-22.5%)
	BN	-1,823 (-21.8%)	-2,205 (-25.2%)
	D	-5,082 (-54.9%)	-3,234 (-43.6%)
	C	-1,282 (-29.2%)	-507 (-14%)
	All	-2,567 (-31.9%)	-2,321 (-29.7%)
SEP	W	3,301 (30.7%)	-7,131 (-33.6%)
	AN	1,132 (16.7%)	-4,912 (-38.3%)
	BN	-2,886 (-45.9%)	-2,800 (-45.2%)
	D	-3,078 (-50.3%)	-606 (-16.6%)
	C	-92 (-2.6%)	500 (16.7%)
	All	30 (0.4%)	-3,518 (-32.3%)
OCT	W	-1,863 (-21.4%)	-1,432 (-17.3%)
	AN	965 (15.6%)	-60 (-0.8%)
	BN	1,305 (20.9%)	588 (8.4%)
	D	-92 (-1.7%)	-507 (-8.9%)
	C	195 (3.7%)	441 (8.9%)
	All	-218 (-3.3%)	-409 (-6%)
NOV	W	-2,624 (-16.6%)	-2,674 (-16.8%)
	AN	-2,221 (-19.6%)	-3,044 (-25%)
	BN	-1,761 (-21.5%)	-2,647 (-29.2%)
	D	-1,997 (-22.9%)	-1,325 (-16.4%)
	C	-873 (-16%)	-965 (-17.3%)
	All	-2,024 (-18.8%)	-2,177 (-19.9%)
DEC	W	-3,832 (-8.8%)	-897 (-2.2%)
	AN	-102 (-0.5%)	-998 (-5%)
	BN	-680 (-4.9%)	-742 (-5.3%)
	D	-275 (-2.3%)	37 (0.3%)
	C	-670 (-8.2%)	276 (3.8%)
	All	-1,504 (-6.6%)	-509 (-2.3%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.5.2.4 Delta Outflow**

2 **Table 31. Mean Monthly Flows (cfs) for Model Scenarios at the Delta Outflow, Year-Round**

Alternative 5: In Delta—Delta Outflow				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	85,900	94,620	92,918
	AN	49,448	51,100	48,498
	BN	22,968	22,301	21,633
	D	14,736	14,732	14,337
	C	11,343	12,651	13,186
	All	43,289	46,372	45,329
FEB	W	96,835	107,085	106,883
	AN	62,321	65,873	65,157
	BN	36,766	36,084	34,621
	D	20,915	21,461	20,803
	C	12,991	12,798	12,302
	All	52,594	56,338	55,703
MAR	W	78,956	84,471	82,780
	AN	54,171	56,737	56,211
	BN	24,029	22,467	20,387
	D	19,880	19,985	18,580
	C	11,911	12,215	11,991
	All	43,172	45,097	43,787
APR	W	54,394	54,562	51,869
	AN	31,975	30,576	28,304
	BN	21,928	20,641	19,390
	D	14,142	13,413	12,737
	C	9,053	9,294	9,293
	All	30,099	29,603	28,055
MAY	W	41,040	32,880	30,921
	AN	24,200	21,709	20,477
	BN	16,299	13,596	13,223
	D	10,487	10,375	10,742
	C	6,000	6,286	6,113
	All	22,517	19,121	18,311
JUN	W	23,451	15,640	15,255
	AN	11,801	10,676	10,452
	BN	8,004	8,943	9,354
	D	6,636	7,689	7,785
	C	5,322	5,632	5,373
	All	12,765	10,560	10,459
JUL	W	11,441	11,407	10,126
	AN	9,430	12,225	9,951
	BN	7,151	7,668	7,272
	D	5,024	6,448	5,888
	C	4,238	5,832	5,552
	All	7,951	8,984	8,014

Alternative 5: In Delta—Delta Outflow				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
AUG	W	5,341	4,308	4,083
	AN	4,000	4,713	4,107
	BN	4,000	5,129	4,576
	D	4,829	5,348	4,230
	C	4,077	4,433	3,871
	All	4,618	4,754	4,172
SEP	W	9,569	20,078	21,214
	AN	3,672	11,581	12,809
	BN	3,445	3,428	3,513
	D	3,350	3,021	3,885
	C	3,000	3,036	5,691
	All	5,334	9,754	10,886
OCT	W	6,487	9,520	9,497
	AN	4,021	8,982	9,662
	BN	4,477	8,054	10,743
	D	4,157	7,294	7,940
	C	4,158	6,607	8,289
	All	4,931	8,276	9,215
NOV	W	14,232	15,987	16,183
	AN	9,683	11,529	10,711
	BN	5,864	8,681	8,337
	D	6,943	8,052	8,615
	C	5,045	5,725	6,083
	All	9,193	10,844	10,903
DEC	W	48,185	45,191	44,095
	AN	18,014	19,119	18,315
	BN	11,950	12,231	11,411
	D	8,884	8,828	8,014
	C	5,531	6,560	5,944
	All	22,714	22,113	21,239

1 **Table 32. Differences^a (Percent Differences) between Pairs of Model Scenarios at the Delta Outflow,**
 2 **Year-Round**

Alternative 5: In Delta—Delta Outflow			
Month	WYT	EXISTING CONDITIONS vs. A5_LLТ	NAA vs. A5_LLТ
JAN	W	7,018 (8.2%)	-1,702 (-1.8%)
	AN	-949 (-1.9%)	-2,602 (-5.1%)
	BN	-1,335 (-5.8%)	-668 (-3%)
	D	-398 (-2.7%)	-395 (-2.7%)
	C	1,843 (16.3%)	535 (4.2%)
	All	2,041 (4.7%)	-1,043 (-2.2%)
FEB	W	10,048 (10.4%)	-203 (-0.2%)
	AN	2,836 (4.6%)	-716 (-1.1%)
	BN	-2,145 (-5.8%)	-1,463 (-4.1%)
	D	-112 (-0.5%)	-658 (-3.1%)
	C	-689 (-5.3%)	-496 (-3.9%)
	All	3,109 (5.9%)	-636 (-1.1%)
MAR	W	3,824 (4.8%)	-1,692 (-2%)
	AN	2,040 (3.8%)	-527 (-0.9%)
	BN	-3,642 (-15.2%)	-2,080 (-9.3%)
	D	-1,301 (-6.5%)	-1,406 (-7%)
	C	80 (0.7%)	-224 (-1.8%)
	All	615 (1.4%)	-1,310 (-2.9%)
APR	W	-2,525 (-4.6%)	-2,693 (-4.9%)
	AN	-3,671 (-11.5%)	-2,272 (-7.4%)
	BN	-2,538 (-11.6%)	-1,251 (-6.1%)
	D	-1,405 (-9.9%)	-676 (-5%)
	C	239 (2.6%)	-1 (0%)
	All	-2,044 (-6.8%)	-1,548 (-5.2%)
MAY	W	-10,118 (-24.7%)	-1,959 (-6%)
	AN	-3,722 (-15.4%)	-1,232 (-5.7%)
	BN	-3,076 (-18.9%)	-373 (-2.7%)
	D	255 (2.4%)	367 (3.5%)
	C	114 (1.9%)	-172 (-2.7%)
	All	-4,206 (-18.7%)	-810 (-4.2%)
JUN	W	-8,196 (-34.9%)	-385 (-2.5%)
	AN	-1,349 (-11.4%)	-224 (-2.1%)
	BN	1,350 (16.9%)	411 (4.6%)
	D	1,149 (17.3%)	96 (1.2%)
	C	51 (1%)	-259 (-4.6%)
	All	-2,306 (-18.1%)	-101 (-1%)
JUL	W	-1,315 (-11.5%)	-1,281 (-11.2%)
	AN	521 (5.5%)	-2,273 (-18.6%)
	BN	122 (1.7%)	-395 (-5.2%)
	D	864 (17.2%)	-560 (-8.7%)
	C	1,314 (31%)	-280 (-4.8%)
	All	62 (0.8%)	-970 (-10.8%)

Alternative 5: In Delta—Delta Outflow			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1T	NAA vs. A5_LL1T
AUG	W	-1,257 (-23.5%)	-225 (-5.2%)
	AN	107 (2.7%)	-607 (-12.9%)
	BN	576 (14.4%)	-553 (-10.8%)
	D	-599 (-12.4%)	-1,118 (-20.9%)
	C	-206 (-5.1%)	-562 (-12.7%)
	All	-446 (-9.7%)	-582 (-12.2%)
SEP	W	11,645 (121.7%)	1,136 (5.7%)
	AN	9,137 (248.8%)	1,227 (10.6%)
	BN	68 (2%)	85 (2.5%)
	D	535 (16%)	864 (28.6%)
	C	2,691 (89.7%)	2,655 (87.5%)
	All	5,552 (104.1%)	1,133 (11.6%)
OCT	W	3,010 (46.4%)	-23 (-0.2%)
	AN	5,641 (140.3%)	680 (7.6%)
	BN	6,266 (140%)	2,689 (33.4%)
	D	3,783 (91%)	646 (8.9%)
	C	4,131 (99.4%)	1,682 (25.5%)
	All	4,285 (86.9%)	939 (11.4%)
NOV	W	1,951 (13.7%)	195 (1.2%)
	AN	1,028 (10.6%)	-817 (-7.1%)
	BN	2,472 (42.2%)	-345 (-4%)
	D	1,672 (24.1%)	563 (7%)
	C	1,039 (20.6%)	358 (6.3%)
	All	1,710 (18.6%)	59 (0.5%)
DEC	W	-4,090 (-8.5%)	-1,096 (-2.4%)
	AN	301 (1.7%)	-804 (-4.2%)
	BN	-539 (-4.5%)	-820 (-6.7%)
	D	-871 (-9.8%)	-814 (-9.2%)
	C	413 (7.5%)	-616 (-9.4%)
	All	-1,476 (-6.5%)	-874 (-4%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.5.2.5 San Joaquin River at Vernalis**

2 **Table 33. Mean Monthly Flows (cfs) for Model Scenarios in the San Joaquin River at Vernalis,**
 3 **Year-Round**

Alternative 5: In Delta—San Joaquin River at Vernalis				
Month	WYT^a	EXISTING CONDITIONS	NAA	A5_LL1T
JAN	W	9,089	9,681	9,742
	AN	5,447	6,011	5,991
	BN	2,326	2,220	2,238
	D	2,270	2,202	2,224
	C	1,667	1,592	1,592
	All	4,777	5,018	5,038
FEB	W	12,750	13,191	13,199
	AN	6,965	6,721	6,683
	BN	2,983	2,841	2,832
	D	2,590	2,269	2,269
	C	2,120	1,941	1,942
	All	6,388	6,361	6,355
MAR	W	14,374	15,235	15,234
	AN	6,284	6,364	6,365
	BN	2,949	2,476	2,476
	D	2,479	2,146	2,146
	C	1,813	1,688	1,688
	All	6,648	6,763	6,763
APR	W	11,955	12,457	12,458
	AN	6,014	6,042	6,043
	BN	4,490	3,922	3,924
	D	3,656	3,112	3,112
	C	1,983	1,796	1,796
	All	6,351	6,291	6,291
MAY	W	12,109	12,632	12,634
	AN	5,381	5,092	5,093
	BN	4,074	3,657	3,659
	D	3,308	2,823	2,824
	C	1,964	1,798	1,797
	All	6,148	6,069	6,070
JUN	W	11,058	6,820	6,819
	AN	2,965	2,678	2,680
	BN	2,051	1,870	1,873
	D	1,537	1,291	1,292
	C	1,020	956	956
	All	4,583	3,206	3,207
JUL	W	7,654	4,345	4,347
	AN	1,958	1,801	1,805
	BN	1,491	1,381	1,387
	D	1,295	1,100	1,102
	C	898	858	858
	All	3,239	2,184	2,186

Alternative 5: In Delta—San Joaquin River at Vernalis				
Month	WYT^a	EXISTING CONDITIONS	NAA	A5_LLТ
AUG	W	3,539	2,645	2,646
	AN	2,000	1,699	1,702
	BN	1,460	1,375	1,379
	D	1,375	1,225	1,226
	C	1,007	987	987
	All	2,072	1,710	1,712
SEP	W	3,519	3,127	3,128
	AN	2,355	2,164	2,166
	BN	1,829	1,748	1,750
	D	1,796	1,643	1,643
	C	1,402	1,378	1,380
	All	2,338	2,144	2,145
OCT	W	2,760	2,726	2,712
	AN	2,745	2,595	2,585
	BN	2,502	2,348	2,348
	D	2,945	2,790	2,792
	C	2,213	2,031	2,031
	All	2,639	2,515	2,509
NOV	W	2,534	2,411	2,418
	AN	3,182	3,193	3,132
	BN	2,150	1,997	2,029
	D	2,272	2,217	2,252
	C	1,968	1,898	1,898
	All	2,448	2,367	2,368
DEC	W	4,370	4,504	4,559
	AN	4,711	4,567	4,594
	BN	2,182	2,065	2,072
	D	2,129	2,166	2,179
	C	1,729	1,694	1,694
	All	3,219	3,211	3,235

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 34. Differences^a (Percent Differences) between Pairs of Model Scenarios in the San Joaquin**
 2 **River at Vernalis, Year-Round**

Alternative 5: In Delta—San Joaquin River at Vernalis			
Month	WYT ^b	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
JAN	W	653 (7.2%)	61 (0.6%)
	AN	544 (10%)	-19 (-0.3%)
	BN	-88 (-3.8%)	18 (0.8%)
	D	-46 (-2%)	22 (1%)
	C	-75 (-4.5%)	0 (0%)
	All	261 (5.5%)	20 (0.4%)
FEB	W	449 (3.5%)	8 (0.1%)
	AN	-282 (-4%)	-38 (-0.6%)
	BN	-150 (-5%)	-8 (-0.3%)
	D	-321 (-12.4%)	0 (0%)
	C	-178 (-8.4%)	1 (0%)
	All	-33 (-0.5%)	-6 (-0.1%)
MAR	W	860 (6%)	-1 (0%)
	AN	81 (1.3%)	0 (0%)
	BN	-473 (-16%)	0 (0%)
	D	-333 (-13.4%)	0 (0%)
	C	-125 (-6.9%)	0 (0%)
	All	115 (1.7%)	0 (0%)
APR	W	504 (4.2%)	1 (0%)
	AN	29 (0.5%)	1 (0%)
	BN	-567 (-12.6%)	1 (0%)
	D	-545 (-14.9%)	0 (0%)
	C	-187 (-9.4%)	0 (0%)
	All	-60 (-0.9%)	1 (0%)
MAY	W	525 (4.3%)	2 (0%)
	AN	-289 (-5.4%)	0 (0%)
	BN	-414 (-10.2%)	3 (0.1%)
	D	-485 (-14.6%)	1 (0%)
	C	-168 (-8.5%)	-1 (-0.1%)
	All	-78 (-1.3%)	1 (0%)
JUN	W	-4,238 (-38.3%)	-1 (0%)
	AN	-285 (-9.6%)	2 (0.1%)
	BN	-178 (-8.7%)	3 (0.2%)
	D	-245 (-15.9%)	1 (0.1%)
	C	-65 (-6.3%)	0 (0%)
	All	-1,376 (-30%)	1 (0%)
JUL	W	-3,307 (-43.2%)	1 (0%)
	AN	-153 (-7.8%)	4 (0.2%)
	BN	-104 (-7%)	6 (0.5%)
	D	-193 (-14.9%)	2 (0.2%)
	C	-40 (-4.5%)	0 (0%)
	All	-1,053 (-32.5%)	2 (0.1%)

Alternative 5: In Delta—San Joaquin River at Vernalis			
Month	WYT^b	EXISTING CONDITIONS vs. A5_LL1T	NAA vs. A5_LL1T
AUG	W	-893 (-25.2%)	1 (0%)
	AN	-299 (-14.9%)	3 (0.2%)
	BN	-81 (-5.5%)	4 (0.3%)
	D	-148 (-10.8%)	1 (0.1%)
	C	-20 (-2%)	0 (0%)
	All	-360 (-17.4%)	2 (0.1%)
SEP	W	-391 (-11.1%)	1 (0%)
	AN	-189 (-8%)	1 (0.1%)
	BN	-79 (-4.3%)	2 (0.1%)
	D	-153 (-8.5%)	1 (0%)
	C	-23 (-1.6%)	2 (0.1%)
	All	-193 (-8.2%)	1 (0.1%)
OCT	W	-47 (-1.7%)	-14 (-0.5%)
	AN	-160 (-5.8%)	-10 (-0.4%)
	BN	-154 (-6.1%)	1 (0%)
	D	-153 (-5.2%)	1 (0%)
	C	-182 (-8.2%)	0 (0%)
	All	-129 (-4.9%)	-6 (-0.2%)
NOV	W	-115 (-4.6%)	7 (0.3%)
	AN	-51 (-1.6%)	-62 (-1.9%)
	BN	-121 (-5.6%)	33 (1.6%)
	D	-20 (-0.9%)	35 (1.6%)
	C	-70 (-3.6%)	0 (0%)
	All	-80 (-3.3%)	1 (0%)
DEC	W	189 (4.3%)	55 (1.2%)
	AN	-117 (-2.5%)	27 (0.6%)
	BN	-109 (-5%)	8 (0.4%)
	D	50 (2.4%)	13 (0.6%)
	C	-35 (-2%)	0 (0%)
	All	16 (0.5%)	25 (0.8%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.5.2.6 Mokelumne River at the Delta**

2 **Table 35. Mean Monthly Flows (cfs) for Model Scenarios in the Mokelumne River at the Delta,**
 3 **Year-Round**

Alternative 5: In Delta—Mokelumne River at the Delta				
Month	WYT^a	EXISTING CONDITIONS	NAA	A5_LLТ
JAN	W	3,071	3,634	3,634
	AN	1,707	1,876	1,876
	BN	597	617	617
	D	495	493	493
	C	280	281	281
	All	1,460	1,660	1,660
FEB	W	3,290	3,781	3,781
	AN	2,525	2,913	2,913
	BN	1,011	1,035	1,035
	D	695	678	678
	C	426	442	442
	All	1,809	2,033	2,033
MAR	W	3,179	3,336	3,336
	AN	1,582	1,639	1,639
	BN	1,181	1,140	1,140
	D	754	691	691
	C	595	580	580
	All	1,662	1,700	1,700
APR	W	2,819	2,694	2,694
	AN	1,619	1,424	1,424
	BN	1,243	1,068	1,068
	D	623	550	550
	C	340	311	311
	All	1,503	1,384	1,384
MAY	W	3,170	2,885	2,885
	AN	1,439	1,179	1,179
	BN	976	812	812
	D	406	333	333
	C	181	170	170
	All	1,463	1,289	1,289
JUN	W	1,755	1,415	1,415
	AN	851	631	631
	BN	471	366	366
	D	93	76	76
	C	52	44	44
	All	779	616	616
JUL	W	772	469	469
	AN	347	167	167
	BN	123	70	70
	D	7	6	6
	C	3	3	3
	All	315	183	183

Alternative 5: In Delta—Mokelumne River at the Delta				
Month	WYT^a	EXISTING CONDITIONS	NAA	A5_LL^T
AUG	W	703	346	346
	AN	328	216	216
	BN	112	71	71
	D	4	4	4
	C	2	2	2
	All	289	156	156
SEP	W	702	497	497
	AN	333	259	259
	BN	114	91	91
	D	9	9	9
	C	5	5	5
	All	291	213	213
OCT	W	161	147	147
	AN	178	180	180
	BN	154	144	144
	D	180	160	160
	C	117	123	123
	All	158	150	150
NOV	W	487	431	431
	AN	912	855	855
	BN	347	301	301
	D	380	327	327
	C	195	186	186
	All	474	429	429
DEC	W	1,504	1,732	1,732
	AN	1,411	1,628	1,628
	BN	447	472	472
	D	384	374	374
	C	204	209	209
	All	887	999	999

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 36. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Mokelumne**
 2 **River at the Delta, Year-Round**

Alternative 5: In Delta—Mokelumne River at the Delta			
Month	WYT ^b	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
JAN	W	563 (18.3%)	0 (0%)
	AN	169 (9.9%)	0 (0%)
	BN	21 (3.4%)	0 (0%)
	D	-2 (-0.5%)	0 (0%)
	C	1 (0.3%)	0 (0%)
	All	201 (13.8%)	0 (0%)
FEB	W	491 (14.9%)	0 (0%)
	AN	388 (15.4%)	0 (0%)
	BN	24 (2.4%)	0 (0%)
	D	-17 (-2.4%)	0 (0%)
	C	15 (3.5%)	0 (0%)
	All	223 (12.3%)	0 (0%)
MAR	W	158 (5%)	0 (0%)
	AN	57 (3.6%)	0 (0%)
	BN	-41 (-3.4%)	0 (0%)
	D	-63 (-8.3%)	0 (0%)
	C	-15 (-2.5%)	0 (0%)
	All	38 (2.3%)	0 (0%)
APR	W	-125 (-4.4%)	0 (0%)
	AN	-194 (-12%)	0 (0%)
	BN	-175 (-14.1%)	0 (0%)
	D	-73 (-11.7%)	0 (0%)
	C	-29 (-8.7%)	0 (0%)
	All	-120 (-8%)	0 (0%)
MAY	W	-284 (-9%)	0 (0%)
	AN	-260 (-18.1%)	0 (0%)
	BN	-164 (-16.8%)	0 (0%)
	D	-72 (-17.8%)	0 (0%)
	C	-11 (-6.1%)	0 (0%)
	All	-174 (-11.9%)	0 (0%)
JUN	W	-339 (-19.3%)	0 (0%)
	AN	-220 (-25.8%)	0 (0%)
	BN	-105 (-22.3%)	0 (0%)
	D	-17 (-18.8%)	0 (0%)
	C	-8 (-14.7%)	0 (0%)
	All	-163 (-20.9%)	0 (0%)
JUL	W	-303 (-39.3%)	0 (0%)
	AN	-180 (-51.8%)	0 (0%)
	BN	-54 (-43.4%)	0 (0%)
	D	0 (-3.1%)	0 (0%)
	C	0 (-4.4%)	0 (0%)
	All	-132 (-42%)	0 (0%)

Alternative 5: In Delta—Mokelumne River at the Delta			
Month	WYT^b	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
AUG	W	-357 (-50.8%)	0 (0%)
	AN	-113 (-34.3%)	0 (0%)
	BN	-41 (-36.5%)	0 (0%)
	D	0 (-0.5%)	0 (0%)
	C	0 (-3.1%)	0 (0%)
	All	-133 (-46.1%)	0 (0%)
SEP	W	-205 (-29.3%)	0 (0%)
	AN	-74 (-22.2%)	0 (0%)
	BN	-23 (-20.5%)	0 (0%)
	D	-1 (-5.9%)	0 (0%)
	C	0 (4.6%)	0 (0%)
	All	-78 (-26.9%)	0 (0%)
OCT	W	-14 (-8.7%)	0 (0%)
	AN	2 (1.1%)	0 (0%)
	BN	-10 (-6.6%)	0 (0%)
	D	-20 (-11.1%)	0 (0%)
	C	6 (4.7%)	0 (0%)
	All	-7 (-4.7%)	0 (0%)
NOV	W	-56 (-11.5%)	0 (0%)
	AN	-57 (-6.3%)	0 (0%)
	BN	-46 (-13.2%)	0 (0%)
	D	-53 (-13.9%)	0 (0%)
	C	-9 (-4.6%)	0 (0%)
	All	-45 (-9.5%)	0 (0%)
DEC	W	228 (15.2%)	0 (0%)
	AN	217 (15.4%)	0 (0%)
	BN	25 (5.5%)	0 (0%)
	D	-10 (-2.6%)	0 (0%)
	C	6 (2.9%)	0 (0%)
	All	113 (12.7%)	0 (0%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.6 Alternative 6A**2 **11C.6.1 Upstream**3 **11C.6.1.1 Sacramento River at Keswick**4 **Table 1. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Keswick,**
5 **Year-Round**

Alternative 6A: Upstream—Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	16,526	18,233	19,556
	AN	8,318	8,205	9,144
	BN	4,502	4,184	4,301
	D	3,996	4,096	3,896
	C	3,490	4,238	3,452
	All	8,614	9,215	9,634
FEB	W	18,577	20,853	21,084
	AN	14,409	15,297	16,435
	BN	5,981	5,544	6,764
	D	3,684	3,410	3,437
	C	3,599	3,372	3,799
	All	10,355	11,039	11,556
MAR	W	16,200	17,065	17,167
	AN	9,131	8,818	9,011
	BN	5,200	4,318	4,165
	D	3,903	3,814	3,865
	C	3,487	3,583	3,446
	All	8,728	8,800	8,826
APR	W	9,418	9,131	9,106
	AN	6,182	5,536	5,846
	BN	5,426	5,009	4,809
	D	5,803	5,533	5,483
	C	6,472	6,550	6,160
	All	7,038	6,733	6,669
MAY	W	9,508	7,149	7,663
	AN	7,709	7,783	8,333
	BN	7,193	6,272	6,249
	D	7,349	7,681	7,750
	C	6,715	7,316	7,405
	All	7,967	7,233	7,501
JUN	W	10,375	10,274	10,622
	AN	11,147	12,032	12,007
	BN	10,758	10,947	10,751
	D	11,224	11,898	11,628
	C	10,392	11,350	11,301
	All	10,742	11,160	11,167

Alternative 6A: Upstream—Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JUL	W	12,779	14,098	14,544
	AN	14,056	15,098	14,632
	BN	12,965	13,177	13,219
	D	13,302	13,727	14,005
	C	12,849	11,935	12,425
	All	13,123	13,689	13,902
AUG	W	11,029	10,491	11,296
	AN	10,449	11,641	10,530
	BN	10,139	10,261	9,578
	D	10,627	10,986	9,892
	C	9,473	7,348	7,320
	All	10,476	10,269	10,001
SEP	W	9,385	12,833	11,366
	AN	5,862	9,898	8,227
	BN	5,492	5,601	4,795
	D	5,985	4,469	4,593
	C	5,563	4,368	4,824
	All	6,899	8,094	7,341
OCT	W	6,886	7,034	6,773
	AN	7,145	7,152	6,397
	BN	6,396	7,072	6,780
	D	6,128	6,494	6,707
	C	5,902	5,752	5,250
	All	6,530	6,752	6,482
NOV	W	6,672	7,539	6,625
	AN	6,224	7,134	5,972
	BN	5,088	5,936	5,244
	D	5,669	5,406	5,281
	C	4,822	4,710	4,930
	All	5,845	6,324	5,751
DEC	W	12,766	11,022	11,977
	AN	5,531	5,377	5,537
	BN	5,413	5,195	4,815
	D	4,215	3,936	3,711
	C	3,828	3,582	3,588
	All	7,267	6,557	6,770

1 **Table 2. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Keswick, Year-Round**

Alternative 6A: Upstream—Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	3,030 (18.3%)	1,323 (7.3%)
	AN	826 (9.9%)	939 (11.4%)
	BN	-201 (-4.5%)	118 (2.8%)
	D	-99 (-2.5%)	-199 (-4.9%)
	C	-38 (-1.1%)	-786 (-18.5%)
	All	1,020 (11.8%)	418 (4.5%)
FEB	W	2,507 (13.5%)	231 (1.1%)
	AN	2,025 (14.1%)	1,138 (7.4%)
	BN	782 (13.1%)	1,220 (22%)
	D	-246 (-6.7%)	28 (0.8%)
	C	200 (5.6%)	426 (12.6%)
	All	1,200 (11.6%)	516 (4.7%)
MAR	W	967 (6%)	101 (0.6%)
	AN	-120 (-1.3%)	193 (2.2%)
	BN	-1,034 (-19.9%)	-153 (-3.5%)
	D	-38 (-1%)	51 (1.3%)
	C	-42 (-1.2%)	-138 (-3.8%)
	All	98 (1.1%)	26 (0.3%)
APR	W	-312 (-3.3%)	-25 (-0.3%)
	AN	-336 (-5.4%)	310 (5.6%)
	BN	-617 (-11.4%)	-200 (-4%)
	D	-319 (-5.5%)	-50 (-0.9%)
	C	-312 (-4.8%)	-390 (-6%)
	All	-369 (-5.2%)	-65 (-1%)
MAY	W	-1,845 (-19.4%)	514 (7.2%)
	AN	624 (8.1%)	550 (7.1%)
	BN	-944 (-13.1%)	-23 (-0.4%)
	D	401 (5.5%)	68 (0.9%)
	C	690 (10.3%)	90 (1.2%)
	All	-466 (-5.8%)	268 (3.7%)
JUN	W	246 (2.4%)	347 (3.4%)
	AN	860 (7.7%)	-25 (-0.2%)
	BN	-7 (-0.1%)	-196 (-1.8%)
	D	404 (3.6%)	-270 (-2.3%)
	C	909 (8.7%)	-49 (-0.4%)
	All	425 (4%)	7 (0.1%)
JUL	W	1,765 (13.8%)	446 (3.2%)
	AN	576 (4.1%)	-466 (-3.1%)
	BN	253 (2%)	42 (0.3%)
	D	703 (5.3%)	278 (2%)
	C	-425 (-3.3%)	490 (4.1%)
	All	779 (5.9%)	213 (1.6%)

Alternative 6A: Upstream—Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
AUG	W	267 (2.4%)	805 (7.7%)
	AN	81 (0.8%)	-1,111 (-9.5%)
	BN	-561 (-5.5%)	-683 (-6.7%)
	D	-735 (-6.9%)	-1,094 (-10%)
	C	-2,152 (-22.7%)	-27 (-0.4%)
	All	-476 (-4.5%)	-268 (-2.6%)
SEP	W	1,981 (21.1%)	-1,468 (-11.4%)
	AN	2,365 (40.3%)	-1,671 (-16.9%)
	BN	-697 (-12.7%)	-806 (-14.4%)
	D	-1,392 (-23.3%)	125 (2.8%)
	C	-739 (-13.3%)	456 (10.4%)
	All	441 (6.4%)	-753 (-9.3%)
OCT	W	-112 (-1.6%)	-261 (-3.7%)
	AN	-747 (-10.5%)	-754 (-10.5%)
	BN	384 (6%)	-292 (-4.1%)
	D	579 (9.4%)	213 (3.3%)
	C	-652 (-11.1%)	-501 (-8.7%)
	All	-48 (-0.7%)	-270 (-4%)
NOV	W	-48 (-0.7%)	-9,14 (-12.1%)
	AN	-252 (-4%)	-1,162 (-16.3%)
	BN	157 (3.1%)	-691 (-11.6%)
	D	-388 (-6.8%)	-125 (-2.3%)
	C	108 (2.2%)	220 (4.7%)
	All	-95 (-1.6%)	-573 (-9.1%)
DEC	W	-789 (-6.2%)	955 (8.7%)
	AN	6 (0.1%)	160 (3%)
	BN	-598 (-11%)	-379 (-7.3%)
	D	-503 (-11.9%)	-225 (-5.7%)
	C	-241 (-6.3%)	5 (0.2%)
	All	-497 (-6.8%)	213 (3.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.6.1.2 Sacramento River Upstream of Red Bluff**

2 **Table 3. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River Upstream of Red**
 3 **Bluff, Year-Round**

Alternative 6A: Upstream—Sacramento River Upstream of Red Bluff				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	28,036	30,390	31,703
	AN	16,725	16,885	17,821
	BN	9,381	9,146	9,263
	D	7,098	7,262	7,064
	C	6,143	6,942	6,151
	All	15,396	16,278	16,692
FEB	W	30,255	33,472	33,692
	AN	23,492	24,828	25,957
	BN	12,005	11,614	12,830
	D	8,947	8,790	8,818
	C	6,599	6,378	6,810
	All	18,010	19,092	19,604
MAR	W	25,004	26,210	26,311
	AN	16,599	16,428	16,615
	BN	9,333	8,474	8,300
	D	8,385	8,300	8,350
	C	5,999	6,101	5,957
	All	14,669	14,876	14,896
APR	W	15,172	14,842	14,819
	AN	10,477	9,761	10,073
	BN	8,711	8,282	8,092
	D	7,948	7,661	7,612
	C	7,742	7,829	7,442
	All	10,709	10,376	10,314
MAY	W	12,541	10,073	10,591
	AN	10,012	10,047	10,598
	BN	8,781	7,875	7,866
	D	8,677	9,012	9,083
	C	7,746	8,348	8,443
	All	9,979	9,208	9,481
JUN	W	11,905	11,720	12,068
	AN	12,001	12,789	12,768
	BN	11,464	11,651	11,468
	D	11,777	12,441	12,174
	C	10,885	11,881	11,784
	All	11,666	12,046	12,050
JUL	W	13,255	14,525	14,976
	AN	14,129	15,142	14,684
	BN	13,011	13,258	13,318
	D	13,368	13,826	14,111
	C	13,005	12,149	12,673
	All	13,329	13,898	14,123

Alternative 6A: Upstream—Sacramento River Upstream of Red Bluff				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LLТ
AUG	W	11,284	10,735	11,544
	AN	10,580	11,775	10,673
	BN	10,202	10,364	9,695
	D	10,747	11,143	10,052
	C	9,590	7,665	7,671
	All	10,630	10,464	10,207
SEP	W	9,856	13,312	11,846
	AN	6,279	10,320	8,658
	BN	5,821	5,963	5,172
	D	6,391	4,911	5,045
	C	5,887	4,838	5,289
	All	7,302	8,535	7,787
OCT	W	8,020	8,188	7,935
	AN	8,112	8,162	7,410
	BN	7,094	7,778	7,487
	D	6,903	7,287	7,489
	C	6,670	6,537	6,050
	All	7,432	7,675	7,408
NOV	W	9,876	10,821	9,904
	AN	8,144	9,098	7,940
	BN	6,791	7,682	6,992
	D	7,548	7,347	7,227
	C	5,811	5,703	5,925
	All	7,990	8,521	7,949
DEC	W	21,015	19,613	20,570
	AN	10,019	10,053	10,218
	BN	8,408	8,228	7,853
	D	7,292	7,091	6,868
	C	5,628	5,433	5,433
	All	11,989	11,446	11,661

1 **Table 4. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **Upstream of Red Bluff, Year-Round**

Alternative 6A: Upstream—Sacramento River Upstream of Red Bluff			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	3,667 (13.1%)	1,313 (4.3%)
	AN	1,096 (6.6%)	935 (5.5%)
	BN	-118 (-1.3%)	117 (1.3%)
	D	-34 (-0.5%)	-198 (-2.7%)
	C	8 (0.1%)	-791 (-11.4%)
	All	1,296 (8.4%)	414 (2.5%)
FEB	W	3,437 (11.4%)	221 (0.7%)
	AN	2,466 (10.5%)	1,129 (4.5%)
	BN	825 (6.9%)	1,215 (10.5%)
	D	-129 (-1.4%)	28 (0.3%)
	C	211 (3.2%)	431 (6.8%)
	All	1,594 (8.9%)	512 (2.7%)
MAR	W	1,307 (5.2%)	100 (0.4%)
	AN	16 (0.1%)	187 (1.1%)
	BN	-1,032 (-11.1%)	-173 (-2%)
	D	-35 (-0.4%)	50 (0.6%)
	C	-42 (-0.7%)	-145 (-2.4%)
	All	227 (1.5%)	19 (0.1%)
APR	W	-353 (-2.3%)	-23 (-0.2%)
	AN	-404 (-3.9%)	312 (3.2%)
	BN	-619 (-7.1%)	-190 (-2.3%)
	D	-336 (-4.2%)	-49 (-0.6%)
	C	-300 (-3.9%)	-387 (-4.9%)
	All	-394 (-3.7%)	-62 (-0.6%)
MAY	W	-1,950 (-15.5%)	518 (5.1%)
	AN	586 (5.8%)	551 (5.5%)
	BN	-916 (-10.4%)	-9 (-0.1%)
	D	406 (4.7%)	71 (0.8%)
	C	697 (9%)	95 (1.1%)
	All	-498 (-5%)	273 (3%)
JUN	W	163 (1.4%)	349 (3%)
	AN	767 (6.4%)	-21 (-0.2%)
	BN	4 (0%)	-182 (-1.6%)
	D	397 (3.4%)	-267 (-2.1%)
	C	900 (8.3%)	-96 (-0.8%)
	All	383 (3.3%)	4 (0%)
JUL	W	1,721 (13%)	451 (3.1%)
	AN	554 (3.9%)	-458 (-3%)
	BN	307 (2.4%)	60 (0.5%)
	D	743 (5.6%)	285 (2.1%)
	C	-332 (-2.6%)	523 (4.3%)
	All	794 (6%)	225 (1.6%)

Alternative 6A: Upstream—Sacramento River Upstream of Red Bluff			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
AUG	W	261 (2.3%)	809 (7.5%)
	AN	93 (0.9%)	-1,102 (-9.4%)
	BN	-507 (-5%)	-669 (-6.5%)
	D	-695 (-6.5%)	-1,091 (-9.8%)
	C	-1,919 (-20%)	6 (0.1%)
	All	-424 (-4%)	-258 (-2.5%)
SEP	W	1,990 (20.2%)	-1,467 (-11%)
	AN	2,378 (37.9%)	-1,663 (-16.1%)
	BN	-649 (-11.1%)	-791 (-13.3%)
	D	-1,346 (-21.1%)	134 (2.7%)
	C	-598 (-10.2%)	451 (9.3%)
	All	485 (6.6%)	-748 (-8.8%)
OCT	W	-84 (-1%)	-252 (-3.1%)
	AN	-702 (-8.7%)	-752 (-9.2%)
	BN	393 (5.5%)	-291 (-3.7%)
	D	587 (8.5%)	203 (2.8%)
	C	-621 (-9.3%)	-487 (-7.5%)
	All	-24 (-0.3%)	-267 (-3.5%)
NOV	W	28 (0.3%)	-917 (-8.5%)
	AN	-204 (-2.5%)	-1,158 (-12.7%)
	BN	201 (3%)	-690 (-9%)
	D	-321 (-4.3%)	-119 (-1.6%)
	C	113 (1.9%)	221 (3.9%)
	All	-41 (-0.5%)	-572 (-6.7%)
DEC	W	-445 (-2.1%)	958 (4.9%)
	AN	198 (2%)	164 (1.6%)
	BN	-555 (-6.6%)	-375 (-4.6%)
	D	-424 (-5.8%)	-224 (-3.2%)
	C	-195 (-3.5%)	0 (0%)
	All	-329 (-2.7%)	215 (1.9%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.6.1.3 Sacramento River at Wilkins Slough**

2 **Table 5. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Wilkins Slough,**
 3 **Year-Round**

Alternative 6A: Upstream—Sacramento River at Wilkins Slough				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	19,145	19,320	19,382
	AN	17,084	16,593	16,676
	BN	12,521	12,143	12,248
	D	8,896	9,189	8,811
	C	7,858	8,586	7,799
	All	13,811	13,901	13,753
FEB	W	19,887	20,044	20,043
	AN	19,139	19,095	19,163
	BN	14,528	14,328	14,632
	D	11,520	11,473	11,475
	C	8,499	8,158	8,637
	All	15,359	15,309	15,441
MAR	W	18,223	18,323	18,338
	AN	17,696	17,537	17,704
	BN	12,208	11,534	11,364
	D	11,364	11,191	11,403
	C	8,101	8,166	7,993
	All	14,132	13,997	14,018
APR	W	13,392	13,119	13,085
	AN	10,264	9,783	10,118
	BN	7,152	6,858	6,673
	D	5,319	5,112	5,081
	C	4,164	4,331	3,984
	All	8,746	8,518	8,467
MAY	W	10,467	8,435	9,014
	AN	7,318	7,500	8,073
	BN	5,638	4,871	4,930
	D	4,669	5,088	5,182
	C	3,998	4,528	4,673
	All	6,962	6,383	6,703
JUN	W	6,503	6,435	6,801
	AN	5,781	6,530	6,553
	BN	5,243	5,628	5,555
	D	5,245	6,075	5,847
	C	5,140	6,253	6,006
	All	5,707	6,205	6,226
JUL	W	6,685	7,771	8,265
	AN	6,971	7,892	7,499
	BN	6,122	6,560	6,750
	D	6,788	7,474	7,772
	C	7,162	6,649	6,935
	All	6,723	7,353	7,591

Alternative 6A: Upstream—Sacramento River at Wilkins Slough				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
AUG	W	6,287	5,537	6,320
	AN	5,498	6,610	5,541
	BN	5,138	5,462	4,841
	D	5,833	6,356	5,230
	C	5,551	4,719	4,612
	All	5,768	5,741	5,464
SEP	W	9,338	12,737	11,260
	AN	5,631	9,546	7,962
	BN	5,128	5,216	4,456
	D	5,636	4,114	4,297
	C	5,200	4,354	4,794
	All	6,658	7,866	7,141
OCT	W	7,347	7,382	7,202
	AN	6,799	6,927	6,117
	BN	5,987	6,570	6,317
	D	5,688	6,040	6,249
	C	5,642	5,572	5,140
	All	6,421	6,617	6,381
NOV	W	9,644	10,889	9,842
	AN	8,210	9,141	8,014
	BN	6,793	7,588	6,923
	D	7,407	7,227	7,111
	C	5,118	4,986	5,191
	All	7,794	8,402	7,796
DEC	W	17,881	17,257	17,528
	AN	10,809	10,755	10,856
	BN	8,505	8,258	8,220
	D	8,950	8,725	8,518
	C	6,229	5,981	5,935
	All	11,580	11,246	11,288

1 **Table 6. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Wilkins Slough, Year-Round**

Alternative 6A: Upstream—Sacramento River at Wilkins Slough			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	238 (1.2%)	62 (0.3%)
	AN	-408 (-2.4%)	82 (0.5%)
	BN	-273 (-2.2%)	105 (0.9%)
	D	-84 (-0.9%)	-377 (-4.1%)
	C	-59 (-0.7%)	-787 (-9.2%)
	All	-58 (-0.4%)	-148 (-1.1%)
FEB	W	156 (0.8%)	-1 (0%)
	AN	24 (0.1%)	68 (0.4%)
	BN	104 (0.7%)	304 (2.1%)
	D	-45 (-0.4%)	2 (0%)
	C	139 (1.6%)	479 (5.9%)
	All	81 (0.5%)	132 (0.9%)
MAR	W	115 (0.6%)	15 (0.1%)
	AN	9 (0%)	167 (1%)
	BN	-844 (-6.9%)	-170 (-1.5%)
	D	39 (0.3%)	212 (1.9%)
	C	-108 (-1.3%)	-173 (-2.1%)
	All	-114 (-0.8%)	21 (0.2%)
APR	W	-307 (-2.3%)	-34 (-0.3%)
	AN	-146 (-1.4%)	335 (3.4%)
	BN	-479 (-6.7%)	-185 (-2.7%)
	D	-239 (-4.5%)	-32 (-0.6%)
	C	-180 (-4.3%)	-347 (-8%)
	All	-279 (-3.2%)	-51 (-0.6%)
MAY	W	-1,453 (-13.9%)	579 (6.9%)
	AN	755 (10.3%)	573 (7.6%)
	BN	-708 (-12.6%)	59 (1.2%)
	D	513 (11%)	95 (1.9%)
	C	675 (16.9%)	145 (3.2%)
	All	-260 (-3.7%)	319 (5%)
JUN	W	297 (4.6%)	366 (5.7%)
	AN	772 (13.4%)	23 (0.3%)
	BN	313 (6%)	-73 (-1.3%)
	D	601 (11.5%)	-228 (-3.8%)
	C	865 (16.8%)	-247 (-4%)
	All	519 (9.1%)	21 (0.3%)
JUL	W	1,580 (23.6%)	494 (6.4%)
	AN	529 (7.6%)	-392 (-5%)
	BN	628 (10.3%)	190 (2.9%)
	D	984 (14.5%)	297 (4%)
	C	-227 (-3.2%)	286 (4.3%)
	All	869 (12.9%)	239 (3.2%)

Alternative 6A: Upstream—Sacramento River at Wilkins Slough			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
AUG	W	33 (0.5%)	783 (14.2%)
	AN	43 (0.8%)	-1,069 (-16.2%)
	BN	-296 (-5.8%)	-621 (-11.4%)
	D	-603 (-10.3%)	-1,126 (-17.7%)
	C	-939 (-16.9%)	-107 (-2.3%)
	All	-304 (-5.3%)	-277 (-4.8%)
SEP	W	1,922 (20.6%)	-1,478 (-11.6%)
	AN	2,331 (41.4%)	-1,584 (-16.6%)
	BN	-672 (-13.1%)	-760 (-14.6%)
	D	-1,338 (-23.7%)	184 (4.5%)
	C	-406 (-7.8%)	440 (10.1%)
	All	483 (7.3%)	-725 (-9.2%)
OCT	W	-145 (-2%)	-180 (-2.4%)
	AN	-683 (-10%)	-811 (-11.7%)
	BN	330 (5.5%)	-253 (-3.9%)
	D	561 (9.9%)	209 (3.5%)
	C	-501 (-8.9%)	-432 (-7.8%)
	All	-40 (-0.6%)	-236 (-3.6%)
NOV	W	198 (2%)	-1,048 (-9.6%)
	AN	-195 (-2.4%)	-1,126 (-12.3%)
	BN	131 (1.9%)	-665 (-8.8%)
	D	-297 (-4%)	-116 (-1.6%)
	C	73 (1.4%)	205 (4.1%)
	All	2 (0%)	-606 (-7.2%)
DEC	W	-353 (-2%)	272 (1.6%)
	AN	47 (0.4%)	101 (0.9%)
	BN	-285 (-3.4%)	-39 (-0.5%)
	D	-432 (-4.8%)	-207 (-2.4%)
	C	-294 (-4.7%)	-46 (-0.8%)
	All	-291 (-2.5%)	42 (0.4%)

1 **11C.6.1.4 Sacramento River at Verona**

2 **Table 7. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Verona,**
 3 **Year-Round**

Alternative 6A: Upstream—Sacramento River at Verona				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LLТ
JAN	W	44,589	45,567	45,059
	AN	34,120	33,671	32,351
	BN	20,175	19,121	17,635
	D	14,756	14,782	13,908
	C	12,085	13,051	11,483
	All	27,583	27,795	26,766
FEB	W	49,892	51,326	50,191
	AN	39,162	39,749	39,502
	BN	26,429	25,341	24,189
	D	18,402	18,090	17,162
	C	12,822	12,325	12,517
	All	31,979	32,192	31,424
MAR	W	43,455	44,624	42,697
	AN	39,477	39,687	38,817
	BN	21,484	19,448	18,116
	D	17,868	17,649	16,738
	C	11,903	11,789	11,141
	All	28,888	28,877	27,616
APR	W	32,219	31,636	29,424
	AN	22,250	21,313	20,190
	BN	14,459	13,857	13,197
	D	11,113	10,903	10,732
	C	9,420	9,489	8,941
	All	19,759	19,298	18,202
MAY	W	26,193	20,229	21,128
	AN	17,079	16,002	16,448
	BN	11,451	10,534	10,495
	D	9,283	9,841	9,297
	C	7,125	7,611	7,451
	All	15,840	13,828	14,029
JUN	W	18,367	15,304	15,833
	AN	13,590	13,574	14,325
	BN	11,062	11,320	11,428
	D	10,429	10,780	9,396
	C	8,911	9,827	9,179
	All	13,295	12,576	12,474
JUL	W	16,253	17,965	16,419
	AN	17,488	18,338	16,087
	BN	16,698	16,598	15,813
	D	16,352	16,465	12,976
	C	14,476	12,457	11,454
	All	16,271	16,651	14,785

Alternative 6A: Upstream—Sacramento River at Verona				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LLТ
AUG	W	12,464	14,016	13,472
	AN	13,691	15,828	13,642
	BN	13,389	14,074	13,315
	D	14,688	13,018	11,451
	C	9,207	8,085	9,091
	All	12,813	13,204	12,385
SEP	W	14,279	23,592	19,645
	AN	10,537	19,044	15,446
	BN	9,961	10,576	11,672
	D	10,542	7,664	10,423
	C	7,764	6,832	7,435
	All	11,220	14,755	13,858
OCT	W	11,503	11,232	10,817
	AN	9,381	9,890	8,721
	BN	9,867	10,146	9,748
	D	8,681	8,989	8,938
	C	8,543	8,104	7,796
	All	9,861	9,900	9,473
NOV	W	15,307	15,754	14,570
	AN	11,792	12,817	11,323
	BN	9,852	10,437	9,680
	D	10,157	9,731	9,521
	C	7,341	7,223	7,244
	All	11,565	11,846	11,079
DEC	W	33,840	31,254	30,540
	AN	17,572	18,481	17,119
	BN	13,099	13,028	12,034
	D	12,685	12,532	11,572
	C	9,770	8,627	8,304
	All	19,752	18,852	17,999

1 **Table 8. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Verona, Year-Round**

Alternative 6A: Upstream—Sacramento River at Verona			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	470 (1.1%)	-508 (-1.1%)
	AN	-1,770 (-5.2%)	-1,320 (-3.9%)
	BN	-2,540 (-12.6%)	-1,485 (-7.8%)
	D	-848 (-5.7%)	-874 (-5.9%)
	C	-603 (-5%)	-1,568 (-12%)
	All	-818 (-3%)	-1,029 (-3.7%)
FEB	W	299 (0.6%)	-1,135 (-2.2%)
	AN	340 (0.9%)	-246 (-0.6%)
	BN	-2,240 (-8.5%)	-1,152 (-4.5%)
	D	-1,240 (-6.7%)	-928 (-5.1%)
	C	-305 (-2.4%)	191 (1.6%)
	All	-555 (-1.7%)	-768 (-2.4%)
MAR	W	-758 (-1.7%)	-1,927 (-4.3%)
	AN	-660 (-1.7%)	-870 (-2.2%)
	BN	-3,368 (-15.7%)	-1,332 (-6.8%)
	D	-1,130 (-6.3%)	-911 (-5.2%)
	C	-763 (-6.4%)	-649 (-5.5%)
	All	-1,272 (-4.4%)	-1,261 (-4.4%)
APR	W	-2,795 (-8.7%)	-2,212 (-7%)
	AN	-2,060 (-9.3%)	-1,123 (-5.3%)
	BN	-1,261 (-8.7%)	-660 (-4.8%)
	D	-381 (-3.4%)	-171 (-1.6%)
	C	-480 (-5.1%)	-549 (-5.8%)
	All	-1,557 (-7.9%)	-1,096 (-5.7%)
MAY	W	-5,065 (-19.3%)	899 (4.4%)
	AN	-631 (-3.7%)	446 (2.8%)
	BN	-956 (-8.4%)	-39 (-0.4%)
	D	13 (0.1%)	-544 (-5.5%)
	C	327 (4.6%)	-160 (-2.1%)
	All	-1,811 (-11.4%)	201 (1.5%)
JUN	W	-2,535 (-13.8%)	529 (3.5%)
	AN	735 (5.4%)	750 (5.5%)
	BN	366 (3.3%)	108 (1%)
	D	-1,032 (-9.9%)	-1,384 (-12.8%)
	C	268 (3%)	-647 (-6.6%)
	All	-821 (-6.2%)	-102 (-0.8%)
JUL	W	166 (1%)	-1,547 (-8.6%)
	AN	-1,401 (-8%)	-2,251 (-12.3%)
	BN	-884 (-5.3%)	-785 (-4.7%)
	D	-3,376 (-20.6%)	-3,489 (-21.2%)
	C	-3,021 (-20.9%)	-1,003 (-8.1%)
	All	-1,487 (-9.1%)	-1,866 (-11.2%)

Alternative 6A: Upstream—Sacramento River at Verona			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	1,008 (8.1%)	-544 (-3.9%)
	AN	-50 (-0.4%)	-2,187 (-13.8%)
	BN	-74 (-0.6%)	-759 (-5.4%)
	D	-3,237 (-22%)	-1,567 (-12%)
	C	-117 (-1.3%)	1,005 (12.4%)
	All	-428 (-3.3%)	-819 (-6.2%)
SEP	W	5,366 (37.6%)	-3,947 (-16.7%)
	AN	4,910 (46.6%)	-3,597 (-18.9%)
	BN	1,711 (17.2%)	1,096 (10.4%)
	D	-119 (-1.1%)	2,759 (36%)
	C	-329 (-4.2%)	604 (8.8%)
	All	2,638 (23.5%)	-897 (-6.1%)
OCT	W	-686 (-6%)	-414 (-3.7%)
	AN	-660 (-7%)	-1,169 (-11.8%)
	BN	-119 (-1.2%)	-398 (-3.9%)
	D	257 (3%)	-51 (-0.6%)
	C	-747 (-8.7%)	-307 (-3.8%)
	All	-387 (-3.9%)	-427 (-4.3%)
NOV	W	-737 (-4.8%)	-1,184 (-7.5%)
	AN	-470 (-4%)	-1,494 (-11.7%)
	BN	-172 (-1.7%)	-758 (-7.3%)
	D	-636 (-6.3%)	-210 (-2.2%)
	C	-97 (-1.3%)	21 (0.3%)
	All	-486 (-4.2%)	-767 (-6.5%)
DEC	W	-3,300 (-9.8%)	-714 (-2.3%)
	AN	-454 (-2.6%)	-1,362 (-7.4%)
	BN	-1,065 (-8.1%)	-994 (-7.6%)
	D	-1,113 (-8.8%)	-960 (-7.7%)
	C	-1,466 (-15%)	-323 (-3.7%)
	All	-1,754 (-8.9%)	-854 (-4.5%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.6.1.5 Trinity River below Lewiston**2 **Table 9. Mean Monthly Flows (cfs) for Model Scenarios in the Trinity River Below Lewiston,**
3 **Year-Round**

Alternative 6A: Upstream—Trinity River below Lewiston				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	1,440	1,518	1,637
	AN	300	300	300
	BN	358	300	300
	D	300	300	300
	C	300	287	286
	All	671	684	722
FEB	W	1,056	1,495	1,626
	AN	689	784	962
	BN	517	568	662
	D	300	300	300
	C	300	300	300
	All	634	795	879
MAR	W	1,209	1,385	1,477
	AN	436	519	519
	BN	319	300	300
	D	300	300	300
	C	300	300	300
	All	611	676	705
APR	W	721	844	882
	AN	469	513	514
	BN	507	504	504
	D	529	529	529
	C	575	580	580
	All	584	630	642
MAY	W	4,636	4,620	4,620
	AN	4,462	4,416	4,416
	BN	3,774	3,865	3,865
	D	3,216	3,216	3,216
	C	2,092	1,973	1,973
	All	3,779	3,766	3,766
JUN	W	3,371	3,560	3,560
	AN	2,488	3,188	3,188
	BN	1,672	1,767	1,767
	D	1,251	1,251	1,251
	C	783	783	783
	All	2,108	2,286	2,286
JUL	W	1,289	1,103	1,103
	AN	1,048	1,048	1,048
	BN	869	916	916
	D	667	667	667
	C	450	413	450
	All	923	866	872

Alternative 6A: Upstream—Trinity River below Lewiston				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
AUG	W	450	450	450
	AN	450	450	450
	BN	450	450	450
	D	450	450	450
	C	450	338	338
	All	450	434	434
SEP	W	450	450	450
	AN	450	450	450
	BN	450	450	450
	D	450	450	450
	C	450	265	283
	All	450	423	426
OCT	W	373	373	373
	AN	373	311	332
	BN	346	346	346
	D	373	346	352
	C	373	311	280
	All	368	344	344
NOV	W	489	414	385
	AN	300	275	275
	BN	300	300	300
	D	300	283	283
	C	300	225	225
	All	360	318	309
DEC	W	1,072	837	972
	AN	300	300	300
	BN	300	300	300
	D	300	300	300
	C	300	275	275
	All	545	466	509

1 **Table 10. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Trinity River**
 2 **Below Lewiston, Year-Round**

Alternative 6A: Upstream—Trinity River below Lewiston			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLТ	NAA vs. A6A_LLТ
JAN	W	197 (13.7%)	118 (7.8%)
	AN	0 (0%)	0 (0%)
	BN	-58 (-16.3%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-14 (-4.5%)	-1 (-0.3%)
	All	50 (7.5%)	37 (5.5%)
FEB	W	570 (53.9%)	131 (8.8%)
	AN	272 (39.5%)	178 (22.7%)
	BN	145 (28.1%)	94 (16.5%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	245 (38.7%)	84 (10.5%)
MAR	W	268 (22.2%)	92 (6.6%)
	AN	83 (19.1%)	0 (0%)
	BN	-19 (-5.8%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	94 (15.4%)	29 (4.3%)
APR	W	161 (22.3%)	38 (4.5%)
	AN	44 (9.4%)	1 (0.2%)
	BN	-3 (-0.7%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	5 (0.9%)	0 (0%)
	All	58 (9.9%)	12 (2%)
MAY	W	-16 (-0.3%)	0 (0%)
	AN	-46 (-1%)	0 (0%)
	BN	90 (2.4%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-119 (-5.7%)	0 (0%)
	All	-14 (-0.4%)	0 (0%)
JUN	W	189 (5.6%)	0 (0%)
	AN	700 (28.1%)	0 (0%)
	BN	96 (5.7%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	179 (8.5%)	0 (0%)
JUL	W	-185 (-14.4%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	47 (5.4%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	37 (9.1%)
	All	-51 (-5.5%)	5 (0.6%)

Alternative 6A: Upstream—Trinity River below Lewiston			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-112 (-25%)	0 (0%)
	All	-16 (-3.7%)	0 (0%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-167 (-37%)	18 (6.9%)
	All	-24 (-5.4%)	3 (0.6%)
OCT	W	0 (0%)	0 (0%)
	AN	-41 (-11.1%)	21 (6.7%)
	BN	0 (0%)	0 (0%)
	D	-21 (-5.6%)	6 (1.9%)
	C	-93 (-25%)	-31 (-10%)
	All	-24 (-6.6%)	0 (0%)
NOV	W	-104 (-21.3%)	-29 (-7.1%)
	AN	-25 (-8.3%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	-17 (-5.6%)	0 (0%)
	C	-75 (-25%)	0 (0%)
	All	-51 (-14.2%)	-9 (-2.9%)
DEC	W	-100 (-9.3%)	135 (16.1%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-25 (-8.3%)	0 (0.1%)
	All	-35 (-6.5%)	43 (9.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.6.1.6 Clear Creek below Whiskeytown**2 **Table 11. Mean Monthly Flows (cfs) for Model Scenarios in Clear Creek Below Whiskeytown,**
3 **Year-Round**

Alternative 6A: Upstream—Clear Creek below Whiskeytown				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	220	339	339
	AN	192	192	192
	BN	189	189	189
	D	184	192	192
	C	155	159	156
	All	193	233	233
FEB	W	220	257	257
	AN	197	196	196
	BN	189	189	189
	D	184	192	192
	C	155	168	168
	All	194	209	209
MAR	W	200	259	258
	AN	197	196	196
	BN	189	202	189
	D	186	192	192
	C	155	168	168
	All	188	212	210
APR	W	200	200	200
	AN	197	196	196
	BN	189	189	189
	D	188	192	192
	C	155	168	168
	All	189	191	191
MAY	W	277	277	277
	AN	277	277	277
	BN	263	269	269
	D	264	264	264
	C	211	224	224
	All	262	265	265
JUN	W	200	200	200
	AN	200	200	200
	BN	181	186	186
	D	180	180	180
	C	115	131	120
	All	180	183	181
JUL	W	85	85	85
	AN	85	85	85
	BN	85	85	85
	D	85	85	85
	C	85	85	98
	All	85	85	87

Alternative 6A: Upstream—Clear Creek below Whiskeytown				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
AUG	W	85	85	85
	AN	85	85	85
	BN	85	85	85
	D	85	85	85
	C	94	71	78
	All	86	83	84
SEP	W	150	150	150
	AN	150	150	150
	BN	150	150	150
	D	144	150	150
	C	133	96	96
	All	146	142	142
OCT	W	198	198	198
	AN	183	183	183
	BN	189	182	179
	D	175	183	175
	C	150	142	142
	All	182	182	179
NOV	W	198	198	198
	AN	185	182	182
	BN	184	189	189
	D	177	177	184
	C	155	145	145
	All	183	182	183
DEC	W	198	198	198
	AN	185	192	192
	BN	189	189	189
	D	177	189	189
	C	155	156	156
	All	184	187	187

1

1 **Table 12. Differences^a (Percent Differences) between Pairs of Model Scenarios in Clear Creek Below**
 2 **Whiskeytown, Year-Round**

Alternative 6A: Upstream—Clear Creek below Whiskeytown			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
JAN	W	118 (53.6%)	0 (-0.1%)
	AN	0 (-0.1%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	7 (3.9%)	0 (0%)
	C	1 (0.7%)	-3 (-1.9%)
	All	39 (20.3%)	-1 (-0.2%)
FEB	W	38 (17.1%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	7 (3.9%)	0 (0%)
	C	13 (8.4%)	0 (0%)
	All	15 (7.9%)	0 (0%)
MAR	W	58 (29.2%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	-12 (-6.1%)
	D	6 (3.2%)	0 (0%)
	C	13 (8.4%)	0 (0%)
	All	22 (11.5%)	-2 (-1%)
APR	W	0 (0%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	3 (1.7%)	0 (0%)
	C	13 (8.4%)	0 (0%)
	All	2 (1.3%)	0 (0%)
MAY	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	6 (2.2%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	13 (6.2%)	0 (0%)
	All	3 (1.1%)	0 (0%)
JUN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	5 (2.6%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	5 (4.7%)	-11 (-8.2%)
	All	2 (0.9%)	-2 (-0.9%)
JUL	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	13 (15.5%)	13 (15.5%)
	All	2 (2.3%)	2 (2.3%)

Alternative 6A: Upstream—Clear Creek below Whiskeytown			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-16 (-17.4%)	7 (10%)
	All	-2 (-2.8%)	1 (1.2%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	6 (3.8%)	0 (0%)
	C	-37 (-28.1%)	0 (0%)
	All	-4 (-2.9%)	0 (0%)
OCT	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	-11 (-5.7%)	-3 (-1.8%)
	D	0 (0%)	-8 (-4.5%)
	C	-8 (-5.6%)	0 (0%)
	All	-3 (-1.7%)	-2 (-1.3%)
NOV	W	0 (0%)	0 (0%)
	AN	-3 (-1.8%)	0 (0%)
	BN	6 (3.1%)	0 (0%)
	D	7 (4.1%)	8 (4.5%)
	C	-10 (-6.1%)	0 (0%)
	All	1 (0.4%)	2 (1%)
DEC	W	0 (0%)	0 (0%)
	AN	7 (3.6%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	12 (6.6%)	0 (0%)
	C	1 (0.3%)	0 (-0.2%)
	All	4 (2%)	0 (0%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.6.1.7 Feather River Low-Flow Channel (Upstream of Thermalito**
 2 **Afterbay)**

3 **Table 13. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River Upstream of Thermalito**
 4 **Afterbay (Low-Flow Channel), Year-Round**

Alternative 6A: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
FEB	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
MAR	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
APR	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
MAY	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
JUN	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
JUL	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700

Alternative 6A: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LLТ
AUG	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
SEP	W	773	773	773
	AN	773	773	773
	BN	773	773	773
	D	773	773	773
	C	773	773	773
	All	773	773	773
OCT	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
NOV	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
DEC	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800

1 **Table 14. Differences (Percent Differences) between Pairs of Model Scenarios in the Feather River**
 2 **Upstream of Thermalito Afterbay (Low-Flow Channel), Year-Round**

Alternative 6A: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
JAN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
FEB	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
MAR	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
APR	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
MAY	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
JUN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
JUL	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)

Alternative 6A: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
OCT	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
NOV	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
DEC	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)

1 **11C.6.1.8 Feather River High-Flow Channel (at Thermalito Afterbay)**

2 **Table 15. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at Thermalito Afterbay**
 3 **(High-Flow Channel), Year-Round**

Alternative 6A: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	11,257	11,896	14,106
	AN	4,434	2,838	3,389
	BN	2,640	1,441	1,497
	D	1,798	1,459	1,437
	C	1,459	1,648	1,253
	All	5,277	4,995	5,723
FEB	W	12,466	14,787	16,041
	AN	7,411	5,809	8,154
	BN	3,916	1,897	2,108
	D	1,817	1,659	1,592
	C	1,610	1,482	1,678
	All	6,340	6,444	7,235
MAR	W	12,895	14,772	14,991
	AN	7,733	8,568	10,819
	BN	3,373	1,985	2,062
	D	2,017	1,762	1,980
	C	1,697	1,634	1,573
	All	6,487	6,902	7,353
APR	W	6,472	6,408	6,400
	AN	2,251	2,170	2,165
	BN	1,205	1,203	1,237
	D	1,286	1,470	1,520
	C	1,389	1,407	1,312
	All	3,073	3,084	3,083
MAY	W	7,528	4,740	5,140
	AN	3,340	3,101	3,069
	BN	1,205	1,749	1,745
	D	1,591	2,223	1,687
	C	1,574	1,790	1,597
	All	3,661	3,005	2,981
JUN	W	5,062	4,211	4,489
	AN	3,301	3,930	4,879
	BN	2,707	3,552	3,851
	D	3,134	3,284	2,280
	C	2,695	2,666	2,573
	All	3,632	3,628	3,672
JUL	W	6,490	8,577	6,793
	AN	8,757	9,488	7,971
	BN	8,981	8,833	8,230
	D	8,294	8,099	4,600
	C	6,703	5,217	4,048
	All	7,674	8,157	6,328

Alternative 6A: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
AUG	W	3,308	6,228	5,332
	AN	6,042	7,346	6,532
	BN	6,295	6,868	7,160
	D	7,036	4,990	4,885
	C	2,613	2,163	3,583
	All	4,935	5,634	5,466
SEP	W	2,280	8,327	5,961
	AN	2,253	6,899	4,994
	BN	2,466	3,068	5,098
	D	2,366	1,052	3,990
	C	1,421	1,345	1,862
	All	2,201	4,601	4,640
OCT	W	3,456	3,051	2,931
	AN	2,386	2,741	2,514
	BN	3,183	2,862	2,829
	D	2,688	2,652	2,491
	C	2,472	2,102	2,360
	All	2,940	2,747	2,672
NOV	W	3,292	2,470	2,332
	AN	1,824	2,119	1,833
	BN	2,101	1,900	1,906
	D	1,859	1,664	1,671
	C	1,854	1,876	1,803
	All	2,349	2,058	1,964
DEC	W	7,157	3,948	5,759
	AN	2,951	3,344	2,430
	BN	2,176	2,102	1,527
	D	2,364	2,229	1,822
	C	2,609	1,694	1,552
	All	3,973	2,837	3,069

1 **Table 16. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Feather River at**
 2 **Thermalito Afterbay (High-Flow Channel), Year-Round**

Alternative 6A: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	2,848 (25.3%)	2,210 (18.6%)
	AN	-1,045 (-23.6%)	551 (19.4%)
	BN	-1,143 (-43.3%)	56 (3.9%)
	D	-361 (-20.1%)	-21 (-1.5%)
	C	-207 (-14.2%)	-395 (-24%)
	All	446 (8.4%)	728 (14.6%)
FEB	W	3,575 (28.7%)	1,254 (8.5%)
	AN	744 (10%)	2,346 (40.4%)
	BN	-1,808 (-46.2%)	212 (11.2%)
	D	-225 (-12.4%)	-68 (-4.1%)
	C	67 (4.2%)	196 (13.2%)
	All	894 (14.1%)	791 (12.3%)
MAR	W	2,096 (16.3%)	219 (1.5%)
	AN	3,086 (39.9%)	2,251 (26.3%)
	BN	-1,311 (-38.9%)	77 (3.9%)
	D	-36 (-1.8%)	218 (12.4%)
	C	-124 (-7.3%)	-61 (-3.7%)
	All	866 (13.4%)	451 (6.5%)
APR	W	-72 (-1.1%)	-8 (-0.1%)
	AN	-87 (-3.9%)	-6 (-0.3%)
	BN	32 (2.7%)	34 (2.8%)
	D	234 (18.2%)	50 (3.4%)
	C	-77 (-5.5%)	-95 (-6.7%)
	All	10 (0.3%)	-1 (0%)
MAY	W	-2,388 (-31.7%)	400 (8.4%)
	AN	-271 (-8.1%)	-32 (-1%)
	BN	540 (44.8%)	-3 (-0.2%)
	D	96 (6%)	-536 (-24.1%)
	C	22 (1.4%)	-193 (-10.8%)
	All	-680 (-18.6%)	-25 (-0.8%)
JUN	W	-573 (-11.3%)	278 (6.6%)
	AN	1,578 (47.8%)	949 (24.2%)
	BN	1,145 (42.3%)	300 (8.4%)
	D	-854 (-27.3%)	-1,004 (-30.6%)
	C	-122 (-4.5%)	-93 (-3.5%)
	All	39 (1.1%)	44 (1.2%)
JUL	W	303 (4.7%)	-1,784 (-20.8%)
	AN	-785 (-9%)	-1,517 (-16%)
	BN	-751 (-8.4%)	-603 (-6.8%)
	D	-3,694 (-44.5%)	-3,499 (-43.2%)
	C	-2,654 (-39.6%)	-1,169 (-22.4%)
	All	-1,347 (-17.5%)	-1,830 (-22.4%)

Alternative 6A: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
AUG	W	2,024 (61.2%)	-896 (-14.4%)
	AN	489 (8.1%)	-814 (-11.1%)
	BN	865 (13.7%)	292 (4.2%)
	D	-2,152 (-30.6%)	-106 (-2.1%)
	C	970 (37.1%)	1,420 (65.7%)
	All	531 (10.8%)	-169 (-3%)
SEP	W	3,681 (161.4%)	-2,366 (-28.4%)
	AN	2,741 (121.7%)	-1,905 (-27.6%)
	BN	2,632 (106.7%)	2,030 (66.1%)
	D	1,624 (68.7%)	2,938 (279.2%)
	C	441 (31.1%)	517 (38.5%)
	All	2,439 (110.8%)	38 (0.8%)
OCT	W	-526 (-15.2%)	-120 (-3.9%)
	AN	127 (5.3%)	-228 (-8.3%)
	BN	-354 (-11.1%)	-32 (-1.1%)
	D	-197 (-7.3%)	-161 (-6.1%)
	C	-111 (-4.5%)	258 (12.3%)
	All	-268 (-9.1%)	-75 (-2.7%)
NOV	W	-960 (-29.2%)	-138 (-5.6%)
	AN	9 (0.5%)	-286 (-13.5%)
	BN	-195 (-9.3%)	6 (0.3%)
	D	-189 (-10.1%)	7 (0.4%)
	C	-51 (-2.7%)	-73 (-3.9%)
	All	-385 (-16.4%)	-94 (-4.6%)
DEC	W	-1,398 (-19.5%)	1,811 (45.9%)
	AN	-520 (-17.6%)	-913 (-27.3%)
	BN	-648 (-29.8%)	-574 (-27.3%)
	D	-542 (-22.9%)	-408 (-18.3%)
	C	-1,057 (-40.5%)	-142 (-8.4%)
	All	-904 (-22.7%)	232 (8.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.6.1.9 Feather River at Confluence with Sacramento River**

2 **Table 17. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at the Confluence with**
 3 **the Sacramento River, Year-Round**

Alternative 6A: Upstream—Feather River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	23,533	26,106	28,308
	AN	12,430	11,953	12,511
	BN	6,499	5,575	5,632
	D	4,621	4,412	4,389
	C	3,646	3,837	3,439
	All	11,938	12,509	13,235
FEB	W	27,039	31,065	32,315
	AN	14,818	14,599	16,946
	BN	9,153	7,892	8,102
	D	4,402	4,436	4,367
	C	3,237	3,096	3,293
	All	13,744	14,761	15,550
MAR	W	24,172	26,784	27,012
	AN	19,990	21,490	23,737
	BN	8,136	6,882	6,954
	D	5,073	4,940	5,131
	C	2,933	2,756	2,689
	All	13,521	14,300	14,746
APR	W	15,897	15,852	15,854
	AN	9,832	9,585	9,576
	BN	5,401	5,189	5,224
	D	4,152	4,137	4,182
	C	3,298	3,185	3,092
	All	8,796	8,689	8,691
MAY	W	14,387	10,385	10,796
	AN	8,068	6,884	6,859
	BN	4,704	4,509	4,507
	D	3,652	3,767	3,228
	C	2,389	2,321	2,117
	All	7,697	6,237	6,215
JUN	W	10,222	7,199	7,449
	AN	6,391	5,598	6,394
	BN	4,495	4,342	4,618
	D	3,853	3,367	2,313
	C	2,782	2,522	2,262
	All	6,197	4,951	4,925
JUL	W	8,177	8,734	6,702
	AN	9,322	9,223	7,415
	BN	9,380	8,725	7,858
	D	8,290	7,674	3,917
	C	6,450	4,891	3,511
	All	8,322	8,009	5,925

Alternative 6A: Upstream—Feather River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
AUG	W	4,923	7,222	5,842
	AN	7,080	8,089	6,940
	BN	7,236	7,570	7,425
	D	7,711	5,487	5,064
	C	2,841	2,340	3,559
	All	5,941	6,313	5,768
SEP	W	4,351	10,329	7,950
	AN	4,194	8,773	6,856
	BN	4,252	4,786	6,771
	D	4,179	2,848	5,552
	C	2,054	1,964	2,241
	All	3,937	6,289	6,227
OCT	W	4,176	3,746	3,635
	AN	2,630	2,988	2,743
	BN	3,754	3,437	3,397
	D	3,033	2,987	2,831
	C	2,938	2,566	2,807
	All	3,446	3,243	3,166
NOV	W	4,697	3,825	3,689
	AN	3,065	3,186	2,900
	BN	2,687	2,455	2,462
	D	2,342	2,125	2,132
	C	2,084	2,107	2,024
	All	3,216	2,873	2,779
DEC	W	12,409	10,246	12,055
	AN	5,193	6,000	5,090
	BN	3,079	3,249	2,676
	D	2,838	2,811	2,399
	C	2,975	2,054	1,911
	All	6,279	5,599	5,830

1 **Table 18. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Feather River at**
 2 **the Confluence with the Sacramento River, Year-Round**

Alternative 6A: Upstream—Feather River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLТ	NAA vs. A6A_LLТ
JAN	W	4,775 (20.3%)	2,202 (8.4%)
	AN	82 (0.7%)	558 (4.7%)
	BN	-867 (-13.3%)	57 (1%)
	D	-232 (-5%)	-23 (-0.5%)
	C	-207 (-5.7%)	-397 (-10.4%)
	All	1,297 (10.9%)	726 (5.8%)
FEB	W	5,276 (19.5%)	1,250 (4%)
	AN	2,128 (14.4%)	2,347 (16.1%)
	BN	-1,051 (-11.5%)	209 (2.7%)
	D	-35 (-0.8%)	-69 (-1.6%)
	C	56 (1.7%)	197 (6.4%)
	All	1,805 (13.1%)	789 (5.3%)
MAR	W	2,840 (11.7%)	228 (0.9%)
	AN	3,747 (18.7%)	2,247 (10.5%)
	BN	-1,181 (-14.5%)	73 (1.1%)
	D	59 (1.2%)	191 (3.9%)
	C	-244 (-8.3%)	-67 (-2.4%)
	All	1,224 (9.1%)	446 (3.1%)
APR	W	-43 (-0.3%)	3 (0%)
	AN	-256 (-2.6%)	-9 (-0.1%)
	BN	-177 (-3.3%)	35 (0.7%)
	D	31 (0.7%)	46 (1.1%)
	C	-206 (-6.3%)	-93 (-2.9%)
	All	-105 (-1.2%)	2 (0%)
MAY	W	-3,591 (-25%)	411 (4%)
	AN	-1,209 (-15%)	-24 (-0.4%)
	BN	-197 (-4.2%)	-1 (0%)
	D	-424 (-11.6%)	-539 (-14.3%)
	C	-272 (-11.4%)	-204 (-8.8%)
	All	-1,482 (-19.3%)	-22 (-0.3%)
JUN	W	-2,773 (-27.1%)	250 (3.5%)
	AN	3 (0%)	796 (14.2%)
	BN	123 (2.7%)	277 (6.4%)
	D	-1,540 (-40%)	-1,053 (-31.3%)
	C	-520 (-18.7%)	-260 (-10.3%)
	All	-1,272 (-20.5%)	-26 (-0.5%)
JUL	W	-1,475 (-18%)	-2,033 (-23.3%)
	AN	-1,908 (-20.5%)	-1,808 (-19.6%)
	BN	-1,522 (-16.2%)	-867 (-9.9%)
	D	-4,372 (-52.7%)	-3,757 (-49%)
	C	-2,939 (-45.6%)	-1,380 (-28.2%)
	All	-2,397 (-28.8%)	-2,084 (-26%)

Alternative 6A: Upstream—Feather River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
AUG	W	919 (18.7%)	-1,380 (-19.1%)
	AN	-140 (-2%)	-1,149 (-14.2%)
	BN	190 (2.6%)	-144 (-1.9%)
	D	-2,647 (-34.3%)	-423 (-7.7%)
	C	718 (25.3%)	1,219 (52.1%)
	All	-173 (-2.9%)	-545 (-8.6%)
SEP	W	3,599 (82.7%)	-2,379 (-23%)
	AN	2,662 (63.5%)	-1,918 (-21.9%)
	BN	2,520 (59.3%)	1,986 (41.5%)
	D	1,373 (32.9%)	2,704 (95%)
	C	187 (9.1%)	277 (14.1%)
	All	2,290 (58.2%)	-62 (-1%)
OCT	W	-541 (-13%)	-111 (-3%)
	AN	112 (4.3%)	-246 (-8.2%)
	BN	-357 (-9.5%)	-40 (-1.2%)
	D	-201 (-6.6%)	-155 (-5.2%)
	C	-131 (-4.5%)	241 (9.4%)
	All	-279 (-8.1%)	-77 (-2.4%)
NOV	W	-1,008 (-21.5%)	-136 (-3.6%)
	AN	-165 (-5.4%)	-287 (-9%)
	BN	-225 (-8.4%)	8 (0.3%)
	D	-210 (-9%)	7 (0.3%)
	C	-60 (-2.9%)	-83 (-3.9%)
	All	-437 (-13.6%)	-94 (-3.3%)
DEC	W	-354 (-2.9%)	1,809 (17.7%)
	AN	-103 (-2%)	-910 (-15.2%)
	BN	-403 (-13.1%)	-573 (-17.6%)
	D	-439 (-15.5%)	-413 (-14.7%)
	C	-1,064 (-35.8%)	-144 (-7%)
	All	-448 (-7.1%)	231 (4.1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.6.1.10 American River at Nimbus Dam**

2 **Table 19. Mean Monthly Flows (cfs) for Model Scenarios in the American River at Nimbus Dam,**
 3 **Year-Round**

Alternative 6A: Upstream—American River at Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	8,806	11,036	11,187
	AN	4,833	5,805	6,127
	BN	2,392	2,073	2,028
	D	1,723	1,506	1,579
	C	1,474	1,095	1,088
	All	4,502	5,194	5,296
FEB	W	9,294	11,102	11,105
	AN	6,469	8,153	8,250
	BN	4,360	4,961	5,106
	D	1,852	1,844	1,897
	C	1,185	1,007	1,117
	All	5,218	6,112	6,180
MAR	W	6,089	6,992	6,997
	AN	5,454	5,790	5,818
	BN	2,429	2,794	2,811
	D	2,191	2,314	2,314
	C	939	938	739
	All	3,762	4,187	4,166
APR	W	5,300	5,508	5,516
	AN	3,546	3,298	3,316
	BN	3,126	2,970	2,894
	D	1,837	1,888	1,645
	C	1,156	1,255	1,190
	All	3,305	3,334	3,264
MAY	W	6,157	4,592	4,682
	AN	3,885	2,521	2,662
	BN	2,930	1,969	2,155
	D	1,790	1,686	1,785
	C	1,182	992	1,022
	All	3,587	2,676	2,783
JUN	W	6,003	3,694	3,994
	AN	3,346	3,022	3,050
	BN	2,863	2,883	2,801
	D	2,506	2,596	2,414
	C	1,824	1,025	1,003
	All	3,699	2,825	2,868
JUL	W	4,108	3,860	3,991
	AN	4,638	4,927	4,447
	BN	4,744	4,328	3,762
	D	3,577	3,143	2,940
	C	1,784	2,022	2,312
	All	3,838	3,670	3,542

Alternative 6A: Upstream—American River at Nimbus Dam				
AUG	W	3,520	2,132	2,401
	AN	2,542	1,944	1,997
	BN	2,495	2,324	2,337
	D	2,613	1,620	1,587
	C	1,500	1,100	961
	All	2,707	1,874	1,942
SEP	W	4,025	3,622	2,549
	AN	2,764	2,044	1,883
	BN	2,370	1,605	1,595
	D	1,856	1,182	1,189
	C	1,164	594	605
	All	2,663	2,068	1,705
OCT	W	1,723	1,634	1,750
	AN	1,706	1,732	1,682
	BN	1,602	1,767	1,755
	D	1,468	1,258	1,447
	C	1,461	1,655	1,886
	All	1,605	1,592	1,694
NOV	W	3,527	2,612	2,718
	AN	3,181	2,554	2,505
	BN	2,067	1,716	1,599
	D	2,176	1,424	1,492
	C	1,994	1,608	1,588
	All	2,706	2,043	2,061
DEC	W	6,302	6,171	6,397
	AN	3,137	2,933	3,025
	BN	2,676	2,527	2,533
	D	1,741	1,351	1,503
	C	1,524	1,251	1,225
	All	3,519	3,297	3,413

1 **Table 20. Differences^a (Percent Differences) between Pairs of Model Scenarios in the American River**
 2 **at Nimbus Dam, Year-Round**

Alternative 6A: Upstream—American River at Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	2,381 (27%)	151 (1.4%)
	AN	1,294 (26.8%)	322 (5.6%)
	BN	-364 (-15.2%)	-45 (-2.2%)
	D	-144 (-8.3%)	73 (4.9%)
	C	-386 (-26.2%)	-7 (-0.6%)
	All	794 (17.6%)	102 (2%)
FEB	W	1,812 (19.5%)	3 (0%)
	AN	1,781 (27.5%)	97 (1.2%)
	BN	746 (17.1%)	145 (2.9%)
	D	45 (2.4%)	53 (2.9%)
	C	-68 (-5.8%)	110 (11%)
	All	962 (18.4%)	68 (1.1%)
MAR	W	909 (14.9%)	5 (0.1%)
	AN	365 (6.7%)	28 (0.5%)
	BN	381 (15.7%)	16 (0.6%)
	D	123 (5.6%)	0 (0%)
	C	-200 (-21.3%)	-199 (-21.2%)
	All	404 (10.7%)	-21 (-0.5%)
APR	W	216 (4.1%)	8 (0.1%)
	AN	-230 (-6.5%)	17 (0.5%)
	BN	-232 (-7.4%)	-76 (-2.6%)
	D	-193 (-10.5%)	-244 (-12.9%)
	C	35 (3%)	-65 (-5.2%)
	All	-42 (-1.3%)	-71 (-2.1%)
MAY	W	-1,475 (-24%)	90 (2%)
	AN	-1,222 (-31.5%)	142 (5.6%)
	BN	-775 (-26.4%)	186 (9.5%)
	D	-4 (-0.2%)	99 (5.9%)
	C	-160 (-13.5%)	30 (3%)
	All	-803 (-22.4%)	107 (4%)
JUN	W	-2,009 (-33.5%)	300 (8.1%)
	AN	-296 (-8.8%)	27 (0.9%)
	BN	-62 (-2.2%)	-81 (-2.8%)
	D	-92 (-3.7%)	-182 (-7%)
	C	-821 (-45%)	-21 (-2.1%)
	All	-831 (-22.5%)	42 (1.5%)
JUL	W	-118 (-2.9%)	130 (3.4%)
	AN	-191 (-4.1%)	-480 (-9.7%)
	BN	-983 (-20.7%)	-566 (-13.1%)
	D	-637 (-17.8%)	-204 (-6.5%)
	C	528 (29.6%)	290 (14.3%)
	All	-296 (-7.7%)	-128 (-3.5%)

Alternative 6A: Upstream—American River at Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	-1,119 (-31.8%)	269 (12.6%)
	AN	-545 (-21.4%)	53 (2.7%)
	BN	-157 (-6.3%)	13 (0.6%)
	D	-1,025 (-39.2%)	-32 (-2%)
	C	-539 (-35.9%)	-139 (-12.6%)
	All	-765 (-28.3%)	68 (3.6%)
SEP	W	-1,476 (-36.7%)	-1,074 (-29.6%)
	AN	-881 (-31.9%)	-161 (-7.9%)
	BN	-775 (-32.7%)	-10 (-0.6%)
	D	-667 (-36%)	7 (0.6%)
	C	-559 (-48%)	11 (1.9%)
	All	-958 (-36%)	-363 (-17.5%)
OCT	W	27 (1.6%)	115 (7.1%)
	AN	-24 (-1.4%)	-49 (-2.9%)
	BN	153 (9.5%)	-12 (-0.7%)
	D	-21 (-1.5%)	188 (15%)
	C	426 (29.1%)	232 (14%)
	All	89 (5.5%)	103 (6.4%)
NOV	W	-809 (-22.9%)	106 (4%)
	AN	-676 (-21.2%)	-49 (-1.9%)
	BN	-468 (-22.7%)	-117 (-6.8%)
	D	-684 (-31.4%)	68 (4.7%)
	C	-406 (-20.4%)	-20 (-1.2%)
	All	-645 (-23.8%)	18 (0.9%)
DEC	W	96 (1.5%)	227 (3.7%)
	AN	-112 (-3.6%)	92 (3.1%)
	BN	-143 (-5.3%)	6 (0.2%)
	D	-237 (-13.6%)	152 (11.3%)
	C	-300 (-19.7%)	-27 (-2.1%)
	All	-106 (-3%)	116 (3.5%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.6.1.11 American River at Confluence with Sacramento River**

2 **Table 21. Mean Monthly Flows (cfs) for Model Scenarios in the American River at the Confluence with**
 3 **the Sacramento River, Year-Round**

Alternative 6A: Upstream—American River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LLТ
JAN	W	8,748	10,960	11,109
	AN	4,806	5,760	6,082
	BN	2,326	1,988	1,944
	D	1,654	1,424	1,496
	C	1,403	1,008	1,001
	All	4,443	5,118	5,219
FEB	W	9,183	10,947	10,949
	AN	6,422	8,073	8,167
	BN	4,309	4,888	5,033
	D	1,781	1,756	1,808
	C	1,119	921	1,032
	All	5,142	6,007	6,074
MAR	W	5,979	6,837	6,842
	AN	5,364	5,661	5,688
	BN	2,340	2,672	2,687
	D	2,121	2,224	2,223
	C	864	836	645
	All	3,672	4,063	4,043
APR	W	5,156	5,300	5,308
	AN	3,383	3,079	3,096
	BN	2,984	2,778	2,702
	D	1,672	1,677	1,432
	C	996	1,059	992
	All	3,152	3,128	3,057
MAY	W	5,959	4,332	4,422
	AN	3,700	2,285	2,427
	BN	2,733	1,726	1,913
	D	1,605	1,454	1,556
	C	1,014	790	820
	All	3,398	2,438	2,545
JUN	W	5,743	3,388	3,688
	AN	3,103	2,736	2,762
	BN	2,631	2,603	2,520
	D	2,282	2,320	2,137
	C	1,621	793	771
	All	3,462	2,545	2,586
JUL	W	3,844	3,560	3,688
	AN	4,399	4,635	4,155
	BN	4,509	4,038	3,473
	D	3,347	2,858	2,657
	C	1,568	1,784	2,071
	All	3,597	3,385	3,256

Alternative 6A: Upstream—American River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
AUG	W	3,295	1,858	2,126
	AN	2,313	1,663	1,720
	BN	2,265	2,048	2,066
	D	2,395	1,357	1,328
	C	1,314	899	752
	All	2,488	1,612	1,680
SEP	W	3,846	3,415	2,339
	AN	2,594	1,838	1,677
	BN	2,205	1,402	1,391
	D	1,691	987	994
	C	1,011	427	437
	All	2,495	1,870	1,507
OCT	W	1,607	1,499	1,619
	AN	1,597	1,613	1,559
	BN	1,472	1,617	1,609
	D	1,344	1,114	1,305
	C	1,342	1,517	1,749
	All	1,486	1,454	1,559
NOV	W	3,472	2,540	2,644
	AN	3,100	2,455	2,406
	BN	1,990	1,618	1,501
	D	2,094	1,326	1,392
	C	1,897	1,489	1,467
	All	2,632	1,950	1,967
DEC	W	6,255	6,115	6,340
	AN	3,072	2,856	2,949
	BN	2,609	2,445	2,452
	D	1,675	1,275	1,426
	C	1,443	1,158	1,131
	All	3,457	3,224	3,339

1 **Table 22. Differences^a (Percent Differences) between Pairs of Model Scenarios in the American River**
 2 **at the Confluence with the Sacramento River, Year-Round**

Alternative 6A: Upstream—American River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
JAN	W	2,361 (27%)	149 (1.4%)
	AN	1,276 (26.6%)	321 (5.6%)
	BN	-383 (-16.5%)	-45 (-2.2%)
	D	-158 (-9.6%)	72 (5%)
	C	-402 (-28.7%)	-7 (-0.6%)
	All	776 (17.5%)	101 (2%)
FEB	W	1,766 (19.2%)	2 (0%)
	AN	1,744 (27.2%)	94 (1.2%)
	BN	724 (16.8%)	145 (3%)
	D	28 (1.6%)	52 (3%)
	C	-86 (-7.7%)	111 (12.1%)
	All	932 (18.1%)	67 (1.1%)
MAR	W	862 (14.4%)	5 (0.1%)
	AN	323 (6%)	27 (0.5%)
	BN	348 (14.9%)	15 (0.6%)
	D	103 (4.8%)	0 (0%)
	C	-219 (-25.3%)	-191 (-22.8%)
	All	371 (10.1%)	-20 (-0.5%)
APR	W	152 (2.9%)	8 (0.2%)
	AN	-287 (-8.5%)	17 (0.6%)
	BN	-282 (-9.5%)	-76 (-2.7%)
	D	-240 (-14.4%)	-245 (-14.6%)
	C	-3 (-0.3%)	-67 (-6.3%)
	All	-95 (-3%)	-71 (-2.3%)
MAY	W	-1,537 (-25.8%)	90 (2.1%)
	AN	-1,273 (-34.4%)	141 (6.2%)
	BN	-820 (-30%)	187 (10.8%)
	D	-49 (-3.1%)	102 (7%)
	C	-194 (-19.1%)	30 (3.8%)
	All	-853 (-25.1%)	108 (4.4%)
JUN	W	-2,055 (-35.8%)	300 (8.8%)
	AN	-341 (-11%)	26 (1%)
	BN	-111 (-4.2%)	-83 (-3.2%)
	D	-145 (-6.3%)	-183 (-7.9%)
	C	-850 (-52.4%)	-22 (-2.7%)
	All	-877 (-25.3%)	41 (1.6%)
JUL	W	-156 (-4.1%)	128 (3.6%)
	AN	-244 (-5.5%)	-480 (-10.4%)
	BN	-1,036 (-23%)	-566 (-14%)
	D	-690 (-20.6%)	-202 (-7.1%)
	C	503 (32.1%)	287 (16.1%)
	All	-340 (-9.5%)	-129 (-3.8%)

Alternative 6A: Upstream—American River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	-1,169 (-35.5%)	268 (14.4%)
	AN	-593 (-25.6%)	57 (3.4%)
	BN	-199 (-8.8%)	18 (0.9%)
	D	-1,067 (-44.5%)	-28 (-2.1%)
	C	-562 (-42.8%)	-147 (-16.4%)
	All	-808 (-32.5%)	69 (4.3%)
SEP	W	-1,507 (-39.2%)	-1,076 (-31.5%)
	AN	-917 (-35.4%)	-161 (-8.8%)
	BN	-814 (-36.9%)	-11 (-0.8%)
	D	-697 (-41.2%)	7 (0.7%)
	C	-574 (-56.8%)	10 (2.4%)
	All	-988 (-39.6%)	-364 (-19.4%)
OCT	W	11 (0.7%)	120 (8%)
	AN	-38 (-2.4%)	-54 (-3.3%)
	BN	137 (9.3%)	-8 (-0.5%)
	D	-39 (-2.9%)	191 (17.2%)
	C	407 (30.4%)	232 (15.3%)
	All	73 (4.9%)	105 (7.2%)
NOV	W	-828 (-23.9%)	104 (4.1%)
	AN	-693 (-22.4%)	-48 (-2%)
	BN	-489 (-24.6%)	-117 (-7.2%)
	D	-703 (-33.5%)	66 (5%)
	C	-430 (-22.6%)	-22 (-1.5%)
	All	-665 (-25.3%)	17 (0.9%)
DEC	W	85 (1.4%)	225 (3.7%)
	AN	-123 (-4%)	93 (3.2%)
	BN	-157 (-6%)	7 (0.3%)
	D	-248 (-14.8%)	151 (11.9%)
	C	-312 (-21.6%)	-27 (-2.3%)
	All	-118 (-3.4%)	115 (3.6%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.6.1.12 Stanislaus River at Confluence with the San Joaquin River**

2 **Table 23. Mean Monthly Flows (cfs) for Model Scenarios in the Stanislaus River at the Confluence with**
 3 **the San Joaquin River, Year-Round**

Alternative 6A: Upstream—Stanislaus River at Confluence with the San Joaquin River				
Month	WYT^a	EXISTING CONDITIONS	NAA	A6A_LLТ
JAN	W	956	885	885
	AN	843	963	963
	BN	416	369	368
	D	403	366	366
	C	314	265	265
	All	635	615	615
FEB	W	1,285	1,236	1,234
	AN	917	858	858
	BN	551	438	439
	D	562	359	362
	C	490	348	348
	All	827	723	723
MAR	W	2,063	2,217	2,216
	AN	1,295	956	956
	BN	732	548	548
	D	559	390	394
	C	541	444	447
	All	1,167	1,071	1,072
APR	W	2,054	1,965	1,965
	AN	1,719	1,535	1,517
	BN	1,494	1,211	1,211
	D	1,438	1,199	1,197
	C	823	670	663
	All	1,562	1,387	1,382
MAY	W	1,653	1,613	1,601
	AN	1,389	1,243	1,230
	BN	1,238	898	901
	D	1,140	916	921
	C	715	627	616
	All	1,271	1,125	1,118
JUN	W	1,608	1,763	1,762
	AN	1,134	985	981
	BN	663	568	591
	D	447	364	433
	C	332	296	342
	All	932	914	936
JUL	W	1,064	1,080	1,076
	AN	489	454	454
	BN	450	425	423
	D	398	359	348
	C	337	310	305
	All	607	590	585

Alternative 6A: Upstream—Stanislaus River at Confluence with the San Joaquin River				
Month	WYT^a	EXISTING CONDITIONS	NAA	A6A_LLТ
AUG	W	930	717	717
	AN	476	454	454
	BN	423	418	418
	D	387	382	382
	C	341	338	333
	All	560	491	490
SEP	W	1,040	863	863
	AN	502	474	474
	BN	417	407	407
	D	395	390	393
	C	324	317	323
	All	595	533	535
OCT	W	897	845	847
	AN	873	822	826
	BN	903	844	841
	D	984	925	925
	C	689	612	616
	All	867	808	809
NOV	W	426	408	408
	AN	580	524	524
	BN	341	334	334
	D	345	321	321
	C	325	308	309
	All	410	386	386
DEC	W	512	429	435
	AN	722	697	697
	BN	331	353	353
	D	317	294	294
	C	289	272	272
	All	450	417	419

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 24. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Stanislaus River**
 2 **at the Confluence with the San Joaquin River, Year-Round**

Alternative 6A: Upstream—Stanislaus River at Confluence with the San Joaquin River			
Month	WYT^b	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	-71 (-7.5%)	0 (0%)
	AN	120 (14.3%)	0 (0%)
	BN	-47 (-11.4%)	-1 (-0.1%)
	D	-37 (-9.1%)	0 (0%)
	C	-49 (-15.6%)	0 (-0.1%)
	All	-20 (-3.2%)	0 (0%)
FEB	W	-51 (-4%)	-2 (-0.2%)
	AN	-59 (-6.4%)	0 (0%)
	BN	-113 (-20.5%)	0 (0%)
	D	-200 (-35.7%)	3 (0.7%)
	C	-142 (-29%)	0 (0%)
	All	-104 (-12.6%)	0 (0%)
MAR	W	153 (7.4%)	-1 (0%)
	AN	-339 (-26.2%)	0 (0%)
	BN	-185 (-25.2%)	0 (0%)
	D	-165 (-29.5%)	3 (0.9%)
	C	-94 (-17.3%)	3 (0.7%)
	All	-95 (-8.1%)	1 (0.1%)
APR	W	-89 (-4.3%)	0 (0%)
	AN	-202 (-11.8%)	-18 (-1.1%)
	BN	-282 (-18.9%)	0 (0%)
	D	-242 (-16.8%)	-2 (-0.2%)
	C	-160 (-19.4%)	-7 (-1%)
	All	-180 (-11.5%)	-5 (-0.4%)
MAY	W	-52 (-3.2%)	-13 (-0.8%)
	AN	-159 (-11.4%)	-13 (-1%)
	BN	-337 (-27.2%)	3 (0.3%)
	D	-219 (-19.2%)	6 (0.6%)
	C	-99 (-13.8%)	-11 (-1.7%)
	All	-154 (-12.1%)	-7 (-0.6%)
JUN	W	154 (9.6%)	-1 (-0.1%)
	AN	-153 (-13.5%)	-4 (-0.4%)
	BN	-71 (-10.8%)	23 (4.1%)
	D	-14 (-3%)	69 (18.9%)
	C	10 (3.1%)	47 (15.7%)
	All	4 (0.4%)	23 (2.5%)
JUL	W	13 (1.2%)	-4 (-0.4%)
	AN	-35 (-7.2%)	0 (0%)
	BN	-27 (-6%)	-2 (-0.5%)
	D	-50 (-12.5%)	-11 (-3.1%)
	C	-31 (-9.3%)	-5 (-1.6%)
	All	-21 (-3.5%)	-4 (-0.7%)

Alternative 6A: Upstream—Stanislaus River at Confluence with the San Joaquin River			
AUG	W	-212 (-22.8%)	0 (0%)
	AN	-22 (-4.6%)	0 (0%)
	BN	-4 (-1%)	0 (0%)
	D	-5 (-1.2%)	0 (0%)
	C	-8 (-2.5%)	-5 (-1.5%)
	All	-69 (-12.4%)	-1 (-0.2%)
SEP	W	-177 (-17%)	0 (0%)
	AN	-28 (-5.6%)	0 (0%)
	BN	-10 (-2.4%)	0 (0%)
	D	-2 (-0.5%)	3 (0.8%)
	C	-1 (-0.4%)	6 (2%)
	All	-59 (-10%)	2 (0.3%)
OCT	W	-51 (-5.6%)	1 (0.2%)
	AN	-47 (-5.4%)	3 (0.4%)
	BN	-62 (-6.9%)	-4 (-0.4%)
	D	-59 (-6%)	0 (0%)
	C	-72 (-10.5%)	4 (0.7%)
	All	-57 (-6.6%)	1 (0.2%)
NOV	W	-18 (-4.2%)	1 (0.1%)
	AN	-56 (-9.7%)	0 (0%)
	BN	-8 (-2.3%)	0 (0%)
	D	-23 (-6.7%)	0 (0%)
	C	-16 (-4.8%)	1 (0.2%)
	All	-24 (-5.9%)	0 (0.1%)
DEC	W	-77 (-15.1%)	6 (1.4%)
	AN	-26 (-3.5%)	0 (0%)
	BN	23 (6.8%)	0 (0%)
	D	-23 (-7.3%)	0 (0%)
	C	-17 (-5.8%)	0 (-0.1%)
	All	-31 (-6.9%)	2 (0.4%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.6.2 In Delta**

2 **11C.6.2.1 OMR Flow (Old and Middle Rivers)**

3 **Table 25. Mean Monthly Flows (cfs) for Model Scenarios in the Old and Middle Rivers, Year-Round**

Alternative 6A: In Delta—OMR Flow (Old and Middle Rivers)				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	-1,820	-1,606	5,690
	AN	-3,553	-3,446	2,631
	BN	-4,240	-3,803	1,477
	D	-4,664	-4,675	1,108
	C	-4,130	-3,684	850
	All	-3,449	-3,228	2,809
FEB	W	-2,365	-2,293	6,242
	AN	-3,274	-3,147	3,367
	BN	-3,437	-3,290	2,514
	D	-3,986	-3,502	1,173
	C	-3,191	-3,047	935
	All	-3,158	-2,964	3,296
MAR	W	-1,600	-1,454	7,130
	AN	-4,251	-3,815	3,148
	BN	-4,147	-3,834	1,956
	D	-2,852	-2,614	889
	C	-2,010	-1,636	501
	All	-2,758	-2,487	3,324
APR	W	2,431	2,415	5,096
	AN	1,058	787	2,617
	BN	677	214	2,020
	D	-268	-615	1,031
	C	-950	-845	433
	All	843	659	2,633
MAY	W	509	396	2,092
	AN	272	-237	1,553
	BN	-647	-1,010	673
	D	-1,020	-911	322
	C	353	155	2,249
	All	-4,164	-4,369	1,336
JUN	W	-4,761	-4,454	215
	AN	-4,154	-3,420	-162
	BN	-3,301	-2,592	-493
	D	-2,250	-2,143	-594
	C	-3,780	-3,504	232
	All	-8,959	-8,699	468

Alternative 6A: In Delta—OMR Flow (Old and Middle Rivers)				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JUL	W	-9,919	-7,962	-294
	AN	-10,853	-9,942	-534
	BN	-10,891	-9,505	-612
	D	-8,058	-5,234	-690
	C	-9,715	-8,473	-221
	All	-10,062	-10,518	255
AUG	W	-10,348	-10,985	71
	AN	-10,044	-9,374	-90
	BN	-10,122	-7,259	-151
	D	-4,384	-3,192	-297
	C	-9,283	-8,604	-1
	All	-9,317	-7,580	630
SEP	W	-9,163	-9,002	401
	AN	-8,575	-8,392	349
	BN	-8,081	-5,165	271
	D	-4,807	-3,966	114
	C	-8,236	-6,868	394
	All	-8,347	-5,049	393
OCT	W	-7,643	-3,648	197
	AN	-7,804	-4,793	251
	BN	-6,961	-4,103	280
	D	-6,440	-3,920	142
	C	-7,568	-4,427	279
	All	-8,902	-6,527	483
NOV	W	-7,264	-6,003	219
	AN	-7,997	-5,542	297
	BN	-7,136	-5,007	267
	D	-5,294	-4,389	200
	C	-7,592	-5,636	324
	All	-5,542	-5,591	2,727
DEC	W	-6,987	-7,050	1,271
	AN	-7,304	-7,040	1,130
	BN	-7,214	-7,006	911
	D	-6,166	-4,173	714
	C	-6,513	-6,155	1,548
	All	-6,513	-6,155	1,548

1 **Table 26. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Old and Middle**
 2 **Rivers, Year-Round**

Alternative 6A: In Delta—OMR Flow (Old and Middle Rivers)			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
JAN	W	7,509 (412.7%)	7,296 (454.3%)
	AN	6,183 (174%)	6,077 (176.3%)
	BN	5,717 (134.8%)	5,280 (138.8%)
	D	5,771 (123.7%)	5,783 (123.7%)
	C	4,980 (120.6%)	4,535 (123.1%)
	All	6,258 (181.4%)	6,037 (187%)
FEB	W	8,608 (363.9%)	8,535 (372.3%)
	AN	6,642 (202.8%)	6,514 (207%)
	BN	5,951 (173.1%)	5,804 (176.4%)
	D	5,158 (129.4%)	4,675 (133.5%)
	C	4,126 (129.3%)	3,982 (130.7%)
	All	6,453 (204.4%)	6,259 (211.2%)
MAR	W	8,730 (545.5%)	8,583 (590.5%)
	AN	7,399 (174%)	6,962 (182.5%)
	BN	6,102 (147.2%)	5,790 (151%)
	D	3,741 (131.2%)	3,503 (134%)
	C	2,511 (124.9%)	2,137 (130.6%)
	All	6,081 (220.5%)	5,811 (233.6%)
APR	W	2,665 (109.6%)	2,681 (111%)
	AN	1,559 (147.3%)	1,830 (232.4%)
	BN	1,343 (198.4%)	1,806 (844.1%)
	D	1,299 (484.8%)	1,646 (267.5%)
	C	1,383 (145.5%)	1,278 (151.2%)
	All	1,790 (212.2%)	1,975 (299.7%)
MAY	W	1,582 (310.6%)	1,696 (428.5%)
	AN	1,281 (471.6%)	1,791 (754%)
	BN	1,320 (204.1%)	1,683 (166.7%)
	D	1,342 (131.6%)	1,234 (135.4%)
	C	1,895 (536.6%)	2,093 (1,346.6%)
	All	5,500 (132.1%)	5,705 (130.6%)
JUN	W	4,976 (104.5%)	4,669 (104.8%)
	AN	3,992 (96.1%)	3,258 (95.3%)
	BN	2,808 (85.1%)	2,099 (81%)
	D	1,655 (73.6%)	1,548 (72.3%)
	C	4,012 (106.1%)	3,736 (106.6%)
	All	9,427 (105.2%)	9,168 (105.4%)
JUL	W	9,625 (97%)	7,668 (96.3%)
	AN	10,319 (95.1%)	9,408 (94.6%)
	BN	10,279 (94.4%)	8,893 (93.6%)
	D	7,368 (91.4%)	4,544 (86.8%)
	C	9,494 (97.7%)	8,252 (97.4%)
	All	10,317 (102.5%)	10,773 (102.4%)

Alternative 6A: In Delta—OMR Flow (Old and Middle Rivers)			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	10,420 (100.7%)	11,056 (100.6%)
	AN	9,954 (99.1%)	9,284 (99%)
	BN	9,971 (98.5%)	7,108 (97.9%)
	D	4,087 (93.2%)	2,894 (90.7%)
	C	9,283 (100%)	8,603 (100%)
	All	9,947 (106.8%)	8,210 (108.3%)
SEP	W	9,563 (104.4%)	9,403 (104.5%)
	AN	8,925 (104.1%)	8,742 (104.2%)
	BN	8,352 (103.4%)	5,436 (105.2%)
	D	4,920 (102.4%)	4,079 (102.9%)
	C	8,631 (104.8%)	7,262 (105.7%)
	All	8,740 (104.7%)	5,442 (107.8%)
OCT	W	7,839 (102.6%)	3,845 (105.4%)
	AN	8,055 (103.2%)	5,044 (105.2%)
	BN	7,241 (104%)	4,384 (106.8%)
	D	6,582 (102.2%)	4,062 (103.6%)
	C	7,846 (103.7%)	4,706 (106.3%)
	All	9,385 (105.4%)	7,010 (107.4%)
NOV	W	7,483 (103%)	6,222 (103.6%)
	AN	8,293 (103.7%)	5,839 (105.4%)
	BN	7,404 (103.7%)	5,274 (105.3%)
	D	5,493 (103.8%)	4,589 (104.6%)
	C	7,916 (104.3%)	5,959 (105.7%)
	All	8,269 (149.2%)	8,318 (148.8%)
DEC	W	8,258 (118.2%)	8,321 (118%)
	AN	8,433 (115.5%)	8,170 (116%)
	BN	8,125 (112.6%)	7,917 (113%)
	D	6,880 (111.6%)	4,888 (117.1%)
	C	8,061 (123.8%)	7,703 (125.1%)
	All	8,061 (123.8%)	7,703 (125.1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.6.2.2 Sacramento River Downstream of North Delta Diversion Facility**

2 **Table 27. Mean Monthly Flows (cfs) for Model Scenarios for the Sacramento River Downstream of the**
 3 **North Delta Diversion Facility, Year-Round**

Alternative 6A: In Delta—Sacramento River Downstream of North Delta Diversion Facility				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	50,961	52,878	40,766
	AN	39,863	40,484	31,058
	BN	23,781	22,653	17,958
	D	17,444	17,451	14,651
	C	14,281	15,073	12,282
	All	31,971	32,595	25,550
FEB	W	57,314	59,847	45,420
	AN	45,676	47,786	35,943
	BN	31,934	31,592	23,861
	D	21,202	21,107	17,172
	C	14,708	14,291	13,552
	All	37,116	38,087	29,488
MAR	W	49,416	50,993	38,019
	AN	44,495	45,088	32,872
	BN	24,489	22,915	15,850
	D	20,656	20,650	16,122
	C	13,245	13,137	11,173
	All	32,834	33,134	24,745
APR	W	37,809	37,543	26,595
	AN	25,979	24,931	16,544
	BN	17,752	17,128	13,066
	D	12,990	12,904	11,066
	C	10,229	10,365	9,147
	All	23,169	22,826	16,852
MAY	W	31,948	24,500	17,319
	AN	21,021	18,657	14,270
	BN	14,227	12,394	10,720
	D	10,959	11,427	9,892
	C	7,749	8,011	6,908
	All	19,175	16,295	12,592
JUN	W	23,900	18,603	12,574
	AN	16,309	16,051	11,144
	BN	13,576	13,898	11,376
	D	12,222	12,656	10,314
	C	9,884	10,123	8,686
	All	16,412	14,880	11,095
JUL	W	19,876	21,425	10,821
	AN	21,574	22,727	10,512
	BN	20,953	20,513	8,811
	D	19,272	18,957	8,302
	C	15,397	13,767	8,181
	All	19,520	19,797	9,493

Alternative 6A: In Delta—Sacramento River Downstream of North Delta Diversion Facility				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
AUG	W	15,816	16,064	7,958
	AN	15,877	17,491	8,050
	BN	15,643	16,232	7,844
	D	16,965	14,351	7,776
	C	10,095	8,996	7,417
	All	15,210	14,891	7,833
SEP	W	18,254	27,212	16,245
	AN	13,198	21,006	10,687
	BN	12,427	12,306	7,482
	D	12,155	8,620	7,397
	C	8,485	7,292	6,233
	All	13,751	16,763	10,528
OCT	W	13,505	13,277	8,932
	AN	11,118	11,864	7,628
	BN	11,557	12,124	8,366
	D	10,279	10,487	7,297
	C	10,073	9,964	7,014
	All	11,613	11,776	8,005
NOV	W	19,447	19,285	13,820
	AN	15,309	15,925	11,310
	BN	12,574	13,037	8,993
	D	12,868	11,914	8,725
	C	9,633	9,295	7,666
	All	14,788	14,647	10,610
DEC	W	39,708	37,022	30,748
	AN	21,663	22,629	19,124
	BN	16,678	16,692	14,382
	D	15,442	15,159	13,199
	C	11,816	10,632	9,627
	All	23,727	22,784	19,310

1 **Table 28. Differences^a (Percent Differences) between Pairs of Model Scenarios for the Sacramento**
 2 **River Downstream of the North Delta Diversion Facility, Year-Round**

Alternative 6A: In Delta—Sacramento River Downstream of North Delta Diversion Facility			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	-10,195 (-20%)	-12,111 (-22.9%)
	AN	-8,805 (-22.1%)	-9,427 (-23.3%)
	BN	-5,823 (-24.5%)	-4,695 (-20.7%)
	D	-2,793 (-16%)	-2,800 (-16%)
	C	-2,000 (-14%)	-2,791 (-18.5%)
	All	-6,421 (-20.1%)	-7,044 (-21.6%)
FEB	W	-11,894 (-20.8%)	-14,427 (-24.1%)
	AN	-9,734 (-21.3%)	-11,843 (-24.8%)
	BN	-8,072 (-25.3%)	-7,731 (-24.5%)
	D	-4,030 (-19%)	-3,935 (-18.6%)
	C	-1,156 (-7.9%)	-739 (-5.2%)
	All	-7,628 (-20.6%)	-8,599 (-22.6%)
MAR	W	-11,397 (-23.1%)	-12,974 (-25.4%)
	AN	-11,624 (-26.1%)	-12,217 (-27.1%)
	BN	-8,639 (-35.3%)	-7,064 (-30.8%)
	D	-4,535 (-22%)	-4,528 (-21.9%)
	C	-2,073 (-15.6%)	-1,964 (-15%)
	All	-8,088 (-24.6%)	-8,389 (-25.3%)
APR	W	-11,214 (-29.7%)	-10,949 (-29.2%)
	AN	-9,435 (-36.3%)	-8,387 (-33.6%)
	BN	-4,685 (-26.4%)	-4,062 (-23.7%)
	D	-1,924 (-14.8%)	-1,837 (-14.2%)
	C	-1,081 (-10.6%)	-1,218 (-11.8%)
	All	-6,317 (-27.3%)	-5,974 (-26.2%)
MAY	W	-14,629 (-45.8%)	-7,182 (-29.3%)
	AN	-6,751 (-32.1%)	-4,387 (-23.5%)
	BN	-3,507 (-24.7%)	-1,674 (-13.5%)
	D	-1,067 (-9.7%)	-1,535 (-13.4%)
	C	-841 (-10.9%)	-1,103 (-13.8%)
	All	-6,583 (-34.3%)	-3,703 (-22.7%)
JUN	W	-11,326 (-47.4%)	-6,029 (-32.4%)
	AN	-5,165 (-31.7%)	-4,907 (-30.6%)
	BN	-2,199 (-16.2%)	-2,521 (-18.1%)
	D	-1,909 (-15.6%)	-2,342 (-18.5%)
	C	-1,198 (-12.1%)	-1,437 (-14.2%)
	All	-5,317 (-32.4%)	-3,785 (-25.4%)
JUL	W	-9,055 (-45.6%)	-10,604 (-49.5%)
	AN	-11,062 (-51.3%)	-12,216 (-53.7%)
	BN	-12,142 (-57.9%)	-11,701 (-57%)
	D	-10,970 (-56.9%)	-10,655 (-56.2%)
	C	-7,216 (-46.9%)	-5,586 (-40.6%)
	All	-10,027 (-51.4%)	-10,304 (-52%)

Alternative 6A: In Delta—Sacramento River Downstream of North Delta Diversion Facility			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
AUG	W	-7,858 (-49.7%)	-8,106 (-50.5%)
	AN	-7,826 (-49.3%)	-9,441 (-54%)
	BN	-7,798 (-49.9%)	-8,388 (-51.7%)
	D	-9,190 (-54.2%)	-6,575 (-45.8%)
	C	-2,678 (-26.5%)	-1,580 (-17.6%)
	All	-7,377 (-48.5%)	-7,058 (-47.4%)
SEP	W	-2,008 (-11%)	-10,967 (-40.3%)
	AN	-2,511 (-19%)	-10,319 (-49.1%)
	BN	-4,945 (-39.8%)	-4,824 (-39.2%)
	D	-4,758 (-39.1%)	-1,223 (-14.2%)
	C	-2,252 (-26.5%)	-1,059 (-14.5%)
	All	-3,223 (-23.4%)	-6,235 (-37.2%)
OCT	W	-4,572 (-33.9%)	-4,345 (-32.7%)
	AN	-3,490 (-31.4%)	-4,236 (-35.7%)
	BN	-3,191 (-27.6%)	-3,758 (-31%)
	D	-2,982 (-29%)	-3,190 (-30.4%)
	C	-3,059 (-30.4%)	-2,951 (-29.6%)
	All	-3,608 (-31.1%)	-3,771 (-32%)
NOV	W	-5,627 (-28.9%)	-5,465 (-28.3%)
	AN	-3,998 (-26.1%)	-4,615 (-29%)
	BN	-3,580 (-28.5%)	-4,043 (-31%)
	D	-4,143 (-32.2%)	-3,189 (-26.8%)
	C	-1,967 (-20.4%)	-1,630 (-17.5%)
	All	-4,178 (-28.3%)	-4,037 (-27.6%)
DEC	W	-8,960 (-22.6%)	-6,274 (-16.9%)
	AN	-2,539 (-11.7%)	-3,504 (-15.5%)
	BN	-2,296 (-13.8%)	-2,310 (-13.8%)
	D	-2,244 (-14.5%)	-1,960 (-12.9%)
	C	-2,189 (-18.5%)	-1,005 (-9.5%)
	All	-4,417 (-18.6%)	-3,474 (-15.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.6.2.3 Sacramento River at Rio Vista**

2 **Table 29. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Rio Vista,**
 3 **Year-Round**

Alternative 6A: In Delta—Sacramento River at Rio Vista				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	71,111	78,551	72,289
	AN	41,963	42,919	37,678
	BN	20,943	19,991	17,570
	D	14,895	14,927	13,169
	C	11,853	12,601	10,563
	All	37,268	39,721	35,871
FEB	W	80,958	89,989	80,103
	AN	52,542	55,363	48,851
	BN	30,159	29,442	25,293
	D	19,320	19,422	16,931
	C	12,247	11,956	11,797
	All	44,541	47,675	42,309
MAR	W	63,763	68,663	59,682
	AN	46,750	48,513	41,236
	BN	20,980	19,562	14,675
	D	17,656	17,679	14,890
	C	10,710	10,684	9,355
	All	36,084	37,655	32,101
APR	W	38,214	38,422	31,115
	AN	22,726	21,855	16,048
	BN	14,652	14,207	11,204
	D	10,331	10,299	8,895
	C	7,665	7,816	6,854
	All	21,333	21,211	17,083
MAY	W	26,933	20,046	13,924
	AN	17,008	14,948	11,239
	BN	10,924	9,355	8,001
	D	8,135	8,564	7,346
	C	5,305	5,554	4,707
	All	15,456	12,833	9,727
JUN	W	16,557	11,418	6,673
	AN	9,887	9,220	5,314
	BN	7,001	7,241	5,489
	D	6,020	6,335	4,754
	C	4,333	4,513	3,606
	All	9,847	8,257	5,402
JUL	W	11,125	12,181	4,467
	AN	12,128	12,927	4,273
	BN	11,686	11,357	3,305
	D	10,523	10,307	3,056
	C	7,736	6,596	3,000
	All	10,739	10,921	3,716

Alternative 6A: In Delta—Sacramento River at Rio Vista				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
AUG	W	8,507	8,650	3,000
	AN	8,538	9,648	3,000
	BN	8,371	8,753	3,000
	D	9,264	7,417	3,000
	C	4,390	3,615	2,965
	All	8,052	7,806	2,995
SEP	W	10,767	21,199	9,062
	AN	6,788	12,832	5,100
	BN	6,283	6,197	3,000
	D	6,116	3,644	3,000
	C	3,588	2,996	2,325
	All	7,348	10,896	5,131
OCT	W	8,718	8,287	5,503
	AN	6,183	7,207	4,053
	BN	6,258	6,976	4,508
	D	5,312	5,727	3,931
	C	5,215	4,969	3,389
	All	6,667	6,858	4,467
NOV	W	15,829	15,879	11,184
	AN	11,333	12,156	8,295
	BN	8,184	9,071	5,714
	D	8,733	8,061	5,579
	C	5,473	5,565	4,323
	All	10,793	10,946	7,593
DEC	W	43,367	40,431	38,657
	AN	19,040	19,936	17,635
	BN	13,987	14,049	12,222
	D	11,999	11,687	10,366
	C	8,131	7,186	6,552
	All	22,749	21,753	20,159

1 **Table 30. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento**
 2 **River at Rio Vista, Year-Round**

Alternative 6A: In Delta—Sacramento River at Rio Vista			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	1,177 (1.7%)	-6,263 (-8%)
	AN	-4,284 (-10.2%)	-5,241 (-12.2%)
	BN	-3,373 (-16.1%)	-2,421 (-12.1%)
	D	-1,726 (-11.6%)	-1,758 (-11.8%)
	C	-1,290 (-10.9%)	-2,039 (-16.2%)
	All	-1,397 (-3.7%)	-3,850 (-9.7%)
FEB	W	-855 (-1.1%)	-9,886 (-11%)
	AN	-3,691 (-7%)	-6,511 (-11.8%)
	BN	-4,866 (-16.1%)	-4,150 (-14.1%)
	D	-2,389 (-12.4%)	-2,492 (-12.8%)
	C	-450 (-3.7%)	-159 (-1.3%)
	All	-2,232 (-5%)	-5,366 (-11.3%)
MAR	W	-4,081 (-6.4%)	-8,981 (-13.1%)
	AN	-5,514 (-11.8%)	-7,277 (-15%)
	BN	-6,305 (-30.1%)	-4,887 (-25%)
	D	-2,766 (-15.7%)	-2,789 (-15.8%)
	C	-1,356 (-12.7%)	-1,329 (-12.4%)
	All	-3,983 (-11%)	-5,554 (-14.7%)
APR	W	-7,098 (-18.6%)	-7,307 (-19%)
	AN	-6,679 (-29.4%)	-5,807 (-26.6%)
	BN	-3,449 (-23.5%)	-3,003 (-21.1%)
	D	-1,436 (-13.9%)	-1,404 (-13.6%)
	C	-811 (-10.6%)	-963 (-12.3%)
	All	-4,251 (-19.9%)	-4,129 (-19.5%)
MAY	W	-13,009 (-48.3%)	-6,122 (-30.5%)
	AN	-5,768 (-33.9%)	-3,709 (-24.8%)
	BN	-2,923 (-26.8%)	-1,354 (-14.5%)
	D	-789 (-9.7%)	-1,218 (-14.2%)
	C	-598 (-11.3%)	-847 (-15.3%)
	All	-5,729 (-37.1%)	-3,106 (-24.2%)
JUN	W	-9,884 (-59.7%)	-4,745 (-41.6%)
	AN	-4,573 (-46.3%)	-3,906 (-42.4%)
	BN	-1,511 (-21.6%)	-1,751 (-24.2%)
	D	-1,266 (-21%)	-1,581 (-25%)
	C	-727 (-16.8%)	-908 (-20.1%)
	All	-4,445 (-45.1%)	-2,855 (-34.6%)
JUL	W	-6,658 (-59.8%)	-7,715 (-63.3%)
	AN	-7,855 (-64.8%)	-8,654 (-66.9%)
	BN	-8,381 (-71.7%)	-8,052 (-70.9%)
	D	-7,467 (-71%)	-7,251 (-70.3%)
	C	-4,736 (-61.2%)	-3,596 (-54.5%)
	All	-7,024 (-65.4%)	-7,205 (-66%)

Alternative 6A: In Delta—Sacramento River at Rio Vista			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	-5,507 (-64.7%)	-5,650 (-65.3%)
	AN	-5,538 (-64.9%)	-6,648 (-68.9%)
	BN	-5,371 (-64.2%)	-5,753 (-65.7%)
	D	-6,264 (-67.6%)	-4,417 (-59.6%)
	C	-1,425 (-32.5%)	-650 (-18%)
	All	-5,057 (-62.8%)	-4,811 (-61.6%)
SEP	W	-1,705 (-15.8%)	-12,137 (-57.3%)
	AN	-1,688 (-24.9%)	-7,732 (-60.3%)
	BN	-3,283 (-52.3%)	-3,197 (-51.6%)
	D	-3,116 (-50.9%)	-644 (-17.7%)
	C	-1,263 (-35.2%)	-671 (-22.4%)
	All	-2,217 (-30.2%)	-5,765 (-52.9%)
OCT	W	-3,215 (-36.9%)	-2,784 (-33.6%)
	AN	-2,130 (-34.4%)	-3,154 (-43.8%)
	BN	-1,750 (-28%)	-2,468 (-35.4%)
	D	-1,380 (-26%)	-1,795 (-31.4%)
	C	-1,826 (-35%)	-1,580 (-31.8%)
	All	-2,200 (-33%)	-2,391 (-34.9%)
NOV	W	-4,645 (-29.3%)	-4,695 (-29.6%)
	AN	-3,037 (-26.8%)	-3,860 (-31.8%)
	BN	-2,470 (-30.2%)	-3,357 (-37%)
	D	-3,153 (-36.1%)	-2,482 (-30.8%)
	C	-1,150 (-21%)	-1,242 (-22.3%)
	All	-3,200 (-29.6%)	-3,353 (-30.6%)
DEC	W	-4,710 (-10.9%)	-1,775 (-4.4%)
	AN	-1,406 (-7.4%)	-2,301 (-11.5%)
	BN	-1,765 (-12.6%)	-1,827 (-13%)
	D	-1,633 (-13.6%)	-1,321 (-11.3%)
	C	-1,579 (-19.4%)	-634 (-8.8%)
	All	-2,590 (-11.4%)	-1,594 (-7.3%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.6.2.4 Delta Outflow**2 **Table 31. Mean Monthly Flows (cfs) for Model Scenarios at the Delta Outflow, Year-Round**

Alternative 6A: In Delta—Delta Outflow				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	85,900	94,620	94,769
	AN	49,448	51,100	51,251
	BN	22,968	22,301	25,038
	D	14,736	14,732	18,876
	C	11,343	12,651	15,092
	All	43,289	46,372	48,176
FEB	W	96,835	107,085	104,601
	AN	62,321	65,873	64,997
	BN	36,766	36,084	37,249
	D	20,915	21,461	23,616
	C	12,991	12,798	16,845
	All	52,594	56,338	56,687
MAR	W	78,956	84,471	83,139
	AN	54,171	56,737	55,557
	BN	24,029	22,467	23,090
	D	19,880	19,985	20,583
	C	11,911	12,215	13,148
	All	43,172	45,097	44,876
APR	W	54,394	54,562	48,717
	AN	31,975	30,576	25,657
	BN	21,928	20,641	19,096
	D	14,142	13,413	13,573
	C	9,053	9,294	9,507
	All	30,099	29,603	26,832
MAY	W	41,040	32,880	29,229
	AN	24,200	21,709	19,228
	BN	16,299	13,596	13,955
	D	10,487	10,375	10,822
	C	6,000	6,286	6,672
	All	22,517	19,121	17,816
JUN	W	23,451	15,640	15,955
	AN	11,801	10,676	10,916
	BN	8,004	8,943	9,954
	D	6,636	7,689	7,695
	C	5,322	5,632	5,846
	All	12,765	10,560	10,901
JUL	W	11,441	11,407	10,646
	AN	9,430	12,225	8,256
	BN	7,151	7,668	6,206
	D	5,024	6,448	5,376
	C	4,238	5,832	4,898
	All	7,951	8,984	7,540

Alternative 6A: In Delta—Delta Outflow				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
AUG	W	5,341	4,308	7,832
	AN	4,000	4,713	7,063
	BN	4,000	5,129	6,607
	D	4,829	5,348	6,286
	C	4,077	4,433	5,876
	All	4,618	4,754	6,885
SEP	W	9,569	20,078	17,912
	AN	3,672	11,581	11,296
	BN	3,445	3,428	7,953
	D	3,350	3,021	7,570
	C	3,000	3,036	6,108
	All	5,334	9,754	11,246
OCT	W	6,487	9,520	11,074
	AN	4,021	8,982	8,845
	BN	4,477	8,054	9,725
	D	4,157	7,294	8,812
	C	4,158	6,607	8,006
	All	4,931	8,276	9,572
NOV	W	14,232	15,987	18,182
	AN	9,683	11,529	13,690
	BN	5,864	8,681	11,016
	D	6,943	8,052	10,576
	C	5,045	5,725	8,995
	All	9,193	10,844	13,287
DEC	W	48,185	45,191	51,686
	AN	18,014	19,119	25,345
	BN	11,950	12,231	18,894
	D	8,884	8,828	15,734
	C	5,531	6,560	10,890
	All	22,714	22,113	28,371

1 **Table 32. Differences^a (Percent Differences) between Pairs of Model Scenarios at the Delta Outflow,**
 2 **Year-Round**

Alternative 6A: In Delta—Delta Outflow			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	8,869 (10.3%)	149 (0.2%)
	AN	1,803 (3.6%)	151 (0.3%)
	BN	2,070 (9%)	2,737 (12.3%)
	D	4,140 (28.1%)	4,144 (28.1%)
	C	3,749 (33.1%)	2,441 (19.3%)
	All	4,887 (11.3%)	1,804 (3.9%)
FEB	W	7,766 (8%)	-2,484 (-2.3%)
	AN	2,676 (4.3%)	-876 (-1.3%)
	BN	483 (1.3%)	1,165 (3.2%)
	D	2,700 (12.9%)	2,154 (10%)
	C	3,854 (29.7%)	4,048 (31.6%)
	All	4,093 (7.8%)	348 (0.6%)
MAR	W	4,183 (5.3%)	-1,332 (-1.6%)
	AN	1,386 (2.6%)	-1,180 (-2.1%)
	BN	-939 (-3.9%)	623 (2.8%)
	D	703 (3.5%)	598 (3%)
	C	1,237 (10.4%)	933 (7.6%)
	All	1,704 (3.9%)	-221 (-0.5%)
APR	W	-5,677 (-10.4%)	-5,845 (-10.7%)
	AN	-6,318 (-19.8%)	-4,919 (-16.1%)
	BN	-2,832 (-12.9%)	-1,545 (-7.5%)
	D	-569 (-4%)	159 (1.2%)
	C	454 (5%)	213 (2.3%)
	All	-3,267 (-10.9%)	-2,771 (-9.4%)
MAY	W	-11,811 (-28.8%)	-3,651 (-11.1%)
	AN	-4,972 (-20.5%)	-2,481 (-11.4%)
	BN	-2,343 (-14.4%)	360 (2.6%)
	D	335 (3.2%)	447 (4.3%)
	C	673 (11.2%)	387 (6.2%)
	All	-4,701 (-20.9%)	-1,305 (-6.8%)
JUN	W	-7,495 (-32%)	316 (2%)
	AN	-885 (-7.5%)	240 (2.2%)
	BN	1,950 (24.4%)	1,011 (11.3%)
	D	1,059 (16%)	6 (0.1%)
	C	524 (9.8%)	214 (3.8%)
	All	-1,864 (-14.6%)	340 (3.2%)
JUL	W	-794 (-6.9%)	-760 (-6.7%)
	AN	-1,174 (-12.5%)	-3,968 (-32.5%)
	BN	-945 (-13.2%)	-1,462 (-19.1%)
	D	352 (7%)	-1,073 (-16.6%)
	C	660 (15.6%)	-934 (-16%)
	All	-411 (-5.2%)	-1,444 (-16.1%)

Alternative 6A: In Delta—Delta Outflow			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	2,491 (46.6%)	3,524 (81.8%)
	AN	3,063 (76.6%)	2,350 (49.9%)
	BN	2,607 (65.2%)	1,478 (28.8%)
	D	1,457 (30.2%)	938 (17.5%)
	C	1,798 (44.1%)	1,443 (32.5%)
	All	2,266 (49.1%)	2,130 (44.8%)
SEP	W	8,343 (87.2%)	-2,166 (-10.8%)
	AN	7,624 (207.6%)	-285 (-2.5%)
	BN	4,508 (130.8%)	4,525 (132%)
	D	4,220 (126%)	4,549 (150.6%)
	C	3,108 (103.6%)	3,072 (101.2%)
	All	5,912 (110.8%)	1,492 (15.3%)
OCT	W	4,587 (70.7%)	1,554 (16.3%)
	AN	4,824 (120%)	-137 (-1.5%)
	BN	5,248 (117.2%)	1,671 (20.7%)
	D	4,655 (112%)	1,518 (20.8%)
	C	3,848 (92.5%)	1,399 (21.2%)
	All	4,641 (94.1%)	1,296 (15.7%)
NOV	W	3,949 (27.7%)	2,194 (13.7%)
	AN	4,007 (41.4%)	2,161 (18.7%)
	BN	5,151 (87.8%)	2,334 (26.9%)
	D	3,634 (52.3%)	2,524 (31.3%)
	C	3,951 (78.3%)	3,270 (57.1%)
	All	4,094 (44.5%)	2,443 (22.5%)
DEC	W	3,501 (7.3%)	6,496 (14.4%)
	AN	7,331 (40.7%)	6,226 (32.6%)
	BN	6,944 (58.1%)	6,663 (54.5%)
	D	6,849 (77.1%)	6,906 (78.2%)
	C	5,359 (96.9%)	4,330 (66%)
	All	5,656 (24.9%)	6,258 (28.3%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.6.2.5 San Joaquin River at Vernalis**

2 **Table 33. Mean Monthly Flows (cfs) for Model Scenarios in the San Joaquin River at Vernalis,**
 3 **Year-Round**

Alternative 6A: In Delta—San Joaquin River at Vernalis				
Month	WYT^a	EXISTING CONDITIONS	NAA	A6A_LLТ
JAN	W	9,089	9,681	9,768
	AN	5,447	6,011	6,067
	BN	2,326	2,220	2,300
	D	2,270	2,202	2,216
	C	1,667	1,592	1,591
	All	4,777	5,018	5,069
FEB	W	12,750	13,191	13,199
	AN	6,965	6,721	6,745
	BN	2,983	2,841	2,777
	D	2,590	2,269	2,245
	C	2,120	1,941	1,942
	All	6,388	6,361	6,354
MAR	W	14,374	15,235	15,240
	AN	6,284	6,364	6,336
	BN	2,949	2,476	2,475
	D	2,479	2,146	2,145
	C	1,813	1,688	1,687
	All	6,648	6,763	6,758
APR	W	11,955	12,457	12,392
	AN	6,014	6,042	6,025
	BN	4,490	3,922	3,921
	D	3,656	3,112	3,109
	C	1,983	1,796	1,791
	All	6,351	6,291	6,267
MAY	W	12,109	12,632	12,597
	AN	5,381	5,092	5,085
	BN	4,074	3,657	3,654
	D	3,308	2,823	2,815
	C	1,964	1,798	1,790
	All	6,148	6,069	6,054
JUN	W	11,058	6,820	6,857
	AN	2,965	2,678	2,658
	BN	2,051	1,870	1,866
	D	1,537	1,291	1,285
	C	1,020	956	950
	All	4,583	3,206	3,210
JUL	W	7,654	4,345	4,339
	AN	1,958	1,801	1,798
	BN	1,491	1,381	1,374
	D	1,295	1,100	1,080
	C	898	858	851
	All	3,239	2,184	2,176

Alternative 6A: In Delta—San Joaquin River at Vernalis				
Month	WYT^a	EXISTING CONDITIONS	NAA	A6A_LLТ
AUG	W	3,539	2,645	2,643
	AN	2,000	1,699	1,697
	BN	1,460	1,375	1,371
	D	1,375	1,225	1,219
	C	1,007	987	981
	All	2,072	1,710	1,707
SEP	W	3,519	3,127	3,126
	AN	2,355	2,164	2,163
	BN	1,829	1,748	1,746
	D	1,796	1,643	1,640
	C	1,402	1,378	1,366
	All	2,338	2,144	2,141
OCT	W	2,760	2,726	2,739
	AN	2,745	2,595	2,594
	BN	2,502	2,348	2,343
	D	2,945	2,790	2,791
	C	2,213	2,031	2,031
	All	2,639	2,515	2,518
NOV	W	2,534	2,411	2,418
	AN	3,182	3,193	3,202
	BN	2,150	1,997	2,053
	D	2,272	2,217	2,244
	C	1,968	1,898	1,898
	All	2,448	2,367	2,384
DEC	W	4,370	4,504	4,550
	AN	4,711	4,567	4,655
	BN	2,182	2,065	2,072
	D	2,129	2,166	2,099
	C	1,729	1,694	1,680
	All	3,219	3,211	3,229

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 34. Differences^a (Percent Differences) between Pairs of Model Scenarios in the San Joaquin**
 2 **River at Vernalis, Year-Round**

Alternative 6A: In Delta—San Joaquin River at Vernalis			
Month	WYT ^b	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	679 (7.5%)	86 (0.9%)
	AN	620 (11.4%)	57 (0.9%)
	BN	-26 (-1.1%)	79 (3.6%)
	D	-54 (-2.4%)	15 (0.7%)
	C	-76 (-4.5%)	0 (0%)
	All	292 (6.1%)	51 (1%)
FEB	W	449 (3.5%)	8 (0.1%)
	AN	-220 (-3.2%)	24 (0.4%)
	BN	-205 (-6.9%)	-63 (-2.2%)
	D	-345 (-13.3%)	-24 (-1.1%)
	C	-178 (-8.4%)	1 (0.1%)
	All	-33 (-0.5%)	-7 (-0.1%)
MAR	W	865 (6%)	4 (0%)
	AN	52 (0.8%)	-29 (-0.4%)
	BN	-473 (-16.1%)	0 (0%)
	D	-334 (-13.5%)	-1 (-0.1%)
	C	-126 (-7%)	-1 (-0.1%)
	All	111 (1.7%)	-5 (-0.1%)
APR	W	438 (3.7%)	-65 (-0.5%)
	AN	11 (0.2%)	-17 (-0.3%)
	BN	-569 (-12.7%)	-1 (0%)
	D	-547 (-15%)	-2 (-0.1%)
	C	-192 (-9.7%)	-5 (-0.3%)
	All	-84 (-1.3%)	-24 (-0.4%)
MAY	W	488 (4%)	-35 (-0.3%)
	AN	-297 (-5.5%)	-7 (-0.1%)
	BN	-419 (-10.3%)	-2 (-0.1%)
	D	-494 (-14.9%)	-8 (-0.3%)
	C	-174 (-8.9%)	-7 (-0.4%)
	All	-94 (-1.5%)	-15 (-0.2%)
JUN	W	-4,201 (-38%)	37 (0.5%)
	AN	-306 (-10.3%)	-20 (-0.7%)
	BN	-185 (-9%)	-4 (-0.2%)
	D	-253 (-16.4%)	-6 (-0.5%)
	C	-71 (-6.9%)	-6 (-0.6%)
	All	-1,372 (-29.9%)	4 (0.1%)
JUL	W	-3,315 (-43.3%)	-7 (-0.2%)
	AN	-160 (-8.2%)	-3 (-0.2%)
	BN	-117 (-7.8%)	-6 (-0.5%)
	D	-215 (-16.6%)	-19 (-1.8%)
	C	-48 (-5.3%)	-7 (-0.9%)
	All	-1,063 (-32.8%)	-8 (-0.4%)

Alternative 6A: In Delta—San Joaquin River at Vernalis			
Month	WYT^b	EXISTING CONDITIONS vs. A6A_LL	NAA vs. A6A_LL
AUG	W	-896 (-25.3%)	-2 (-0.1%)
	AN	-304 (-15.2%)	-2 (-0.1%)
	BN	-88 (-6.1%)	-3 (-0.2%)
	D	-156 (-11.3%)	-6 (-0.5%)
	C	-27 (-2.7%)	-7 (-0.7%)
	All	-365 (-17.6%)	-4 (-0.2%)
SEP	W	-393 (-11.2%)	-1 (0%)
	AN	-191 (-8.1%)	-1 (0%)
	BN	-82 (-4.5%)	-2 (-0.1%)
	D	-156 (-8.7%)	-3 (-0.2%)
	C	-36 (-2.6%)	-11 (-0.8%)
	All	-197 (-8.4%)	-3 (-0.2%)
OCT	W	-20 (-0.7%)	13 (0.5%)
	AN	-151 (-5.5%)	-1 (0%)
	BN	-159 (-6.4%)	-5 (-0.2%)
	D	-154 (-5.2%)	0 (0%)
	C	-182 (-8.2%)	0 (0%)
	All	-121 (-4.6%)	3 (0.1%)
NOV	W	-116 (-4.6%)	6 (0.3%)
	AN	20 (0.6%)	9 (0.3%)
	BN	-97 (-4.5%)	57 (2.8%)
	D	-28 (-1.2%)	27 (1.2%)
	C	-71 (-3.6%)	0 (0%)
	All	-64 (-2.6%)	17 (0.7%)
DEC	W	180 (4.1%)	46 (1%)
	AN	-56 (-1.2%)	87 (1.9%)
	BN	-110 (-5.1%)	7 (0.3%)
	D	-30 (-1.4%)	-67 (-3.1%)
	C	-49 (-2.8%)	-13 (-0.8%)
	All	10 (0.3%)	18 (0.6%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.6.2.6 Mokelumne River at the Delta**

2 **Table 35. Mean Monthly Flows (cfs) for Model Scenarios in the Mokelumne River at the Delta,**
 3 **Year-Round**

Alternative 6A: In Delta—Mokelumne River at the Delta				
Month	WYT^a	EXISTING CONDITIONS	NAA	A6A_LLТ
JAN	W	3,071	3,634	3,634
	AN	1,707	1,876	1,876
	BN	597	617	617
	D	495	493	493
	C	280	281	281
	All	1,460	1,660	1,660
FEB	W	3,290	3,781	3,781
	AN	2,525	2,913	2,913
	BN	1,011	1,035	1,035
	D	695	678	678
	C	426	442	442
	All	1,809	2,033	2,033
MAR	W	3,179	3,336	3,336
	AN	1,582	1,639	1,639
	BN	1,181	1,140	1,140
	D	754	691	691
	C	595	580	580
	All	1,662	1,700	1,700
APR	W	2,819	2,694	2,694
	AN	1,619	1,424	1,424
	BN	1,243	1,068	1,068
	D	623	550	550
	C	340	311	311
	All	1,503	1,384	1,384
MAY	W	3,170	2,885	2,885
	AN	1,439	1,179	1,179
	BN	976	812	812
	D	406	333	333
	C	181	170	170
	All	1,463	1,289	1,289
JUN	W	1,755	1,415	1,415
	AN	851	631	631
	BN	471	366	366
	D	93	76	76
	C	52	44	44
	All	779	616	616
JUL	W	772	469	469
	AN	347	167	167
	BN	123	70	70
	D	7	6	6
	C	3	3	3
	All	315	183	183

Alternative 6A: In Delta—Mokelumne River at the Delta				
Month	WYT^a	EXISTING CONDITIONS	NAA	A6A_LLТ
AUG	W	703	346	346
	AN	328	216	216
	BN	112	71	71
	D	4	4	4
	C	2	2	2
	All	289	156	156
SEP	W	702	497	497
	AN	333	259	259
	BN	114	91	91
	D	9	9	9
	C	5	5	5
	All	291	213	213
OCT	W	161	147	147
	AN	178	180	180
	BN	154	144	144
	D	180	160	160
	C	117	123	123
	All	158	150	150
NOV	W	487	431	431
	AN	912	855	855
	BN	347	301	301
	D	380	327	327
	C	195	186	186
	All	474	429	429
DEC	W	1,504	1,732	1,732
	AN	1,411	1,628	1,628
	BN	447	472	472
	D	384	374	374
	C	204	209	209
	All	887	999	999

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 36. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Mokelumne**
 2 **River at the Delta, Year-Round**

Alternative 6A: In Delta—Mokelumne River at the Delta			
Month	WYT ^b	EXISTING CONDITIONS vs. A6A_LLТ	NAA vs. A6A_LLТ
JAN	W	563 (18.3%)	0 (0%)
	AN	169 (9.9%)	0 (0%)
	BN	21 (3.4%)	0 (0%)
	D	-2 (-0.5%)	0 (0%)
	C	1 (0.3%)	0 (0%)
	All	201 (13.8%)	0 (0%)
FEB	W	491 (14.9%)	0 (0%)
	AN	388 (15.4%)	0 (0%)
	BN	24 (2.4%)	0 (0%)
	D	-17 (-2.4%)	0 (0%)
	C	15 (3.5%)	0 (0%)
	All	223 (12.3%)	0 (0%)
MAR	W	158 (5%)	0 (0%)
	AN	57 (3.6%)	0 (0%)
	BN	-41 (-3.4%)	0 (0%)
	D	-63 (-8.3%)	0 (0%)
	C	-15 (-2.5%)	0 (0%)
	All	38 (2.3%)	0 (0%)
APR	W	-125 (-4.4%)	0 (0%)
	AN	-194 (-12%)	0 (0%)
	BN	-175 (-14.1%)	0 (0%)
	D	-73 (-11.7%)	0 (0%)
	C	-29 (-8.7%)	0 (0%)
	All	-120 (-8%)	0 (0%)
MAY	W	-284 (-9%)	0 (0%)
	AN	-260 (-18.1%)	0 (0%)
	BN	-164 (-16.8%)	0 (0%)
	D	-72 (-17.8%)	0 (0%)
	C	-11 (-6.1%)	0 (0%)
	All	-174 (-11.9%)	0 (0%)
JUN	W	-339 (-19.3%)	0 (0%)
	AN	-220 (-25.8%)	0 (0%)
	BN	-105 (-22.3%)	0 (0%)
	D	-17 (-18.8%)	0 (0%)
	C	-8 (-14.7%)	0 (0%)
	All	-163 (-20.9%)	0 (0%)
JUL	W	-303 (-39.3%)	0 (0%)
	AN	-180 (-51.8%)	0 (0%)
	BN	-54 (-43.4%)	0 (0%)
	D	0 (-3.1%)	0 (0%)
	C	0 (-4.4%)	0 (0%)
	All	-132 (-42%)	0 (0%)

Alternative 6A: In Delta—Mokelumne River at the Delta			
Month	WYT^b	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
AUG	W	-357 (-50.8%)	0 (0%)
	AN	-113 (-34.3%)	0 (0%)
	BN	-41 (-36.5%)	0 (0%)
	D	0 (-0.5%)	0 (0%)
	C	0 (-3.1%)	0 (0%)
	All	-133 (-46.1%)	0 (0%)
SEP	W	-205 (-29.3%)	0 (0%)
	AN	-74 (-22.2%)	0 (0%)
	BN	-23 (-20.5%)	0 (0%)
	D	-1 (-5.9%)	0 (0%)
	C	0 (4.6%)	0 (0%)
	All	-78 (-26.9%)	0 (0%)
OCT	W	-14 (-8.7%)	0 (0%)
	AN	2 (1.1%)	0 (0%)
	BN	-10 (-6.6%)	0 (0%)
	D	-20 (-11.1%)	0 (0%)
	C	6 (4.7%)	0 (0%)
	All	-7 (-4.7%)	0 (0%)
NOV	W	-56 (-11.5%)	0 (0%)
	AN	-57 (-6.3%)	0 (0%)
	BN	-46 (-13.2%)	0 (0%)
	D	-53 (-13.9%)	0 (0%)
	C	-9 (-4.6%)	0 (0%)
	All	-45 (-9.5%)	0 (0%)
DEC	W	228 (15.2%)	0 (0%)
	AN	217 (15.4%)	0 (0%)
	BN	25 (5.5%)	0 (0%)
	D	-10 (-2.6%)	0 (0%)
	C	6 (2.9%)	0 (0%)
	All	113 (12.7%)	0 (0%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.7 Alternative 7**2 **11C.7.1 Upstream**3 **11C.7.1.1 Sacramento River at Keswick**4 **Table 1. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Keswick,**
5 **Year-Round**

Alternative 7: Upstream—Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	16,526	18,233	18,994
	AN	8,318	8,205	8,430
	BN	4,502	4,184	4,377
	D	3,996	4,096	3,592
	C	3,490	4,238	3,460
	All	8,614	9,215	9,298
FEB	W	18,577	20,853	20,836
	AN	14,409	15,297	16,423
	BN	5,981	5,544	6,811
	D	3,684	3,410	3,377
	C	3,599	3,372	3,937
	All	10,355	11,039	11,490
MAR	W	16,200	17,065	17,138
	AN	9,131	8,818	8,871
	BN	5,200	4,318	4,165
	D	3,903	3,814	3,834
	C	3,487	3,583	3,450
	All	8,728	8,800	8,790
APR	W	9,418	9,131	9,088
	AN	6,182	5,536	5,828
	BN	5,426	5,009	4,676
	D	5,803	5,533	5,306
	C	6,472	6,550	6,162
	All	7,038	6,733	6,599
MAY	W	9,508	7,149	7,388
	AN	7,709	7,783	8,500
	BN	7,193	6,272	6,217
	D	7,349	7,681	7,448
	C	6,715	7,316	7,785
	All	7,967	7,233	7,422
JUN	W	10,375	10,274	11,204
	AN	11,147	12,032	12,590
	BN	10,758	10,947	10,922
	D	11,224	11,898	11,610
	C	10,392	11,350	11,481
	All	10,742	11,160	11,488

Alternative 7: Upstream—Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LLT
JUL	W	12,779	14,098	14,266
	AN	14,056	15,098	15,444
	BN	12,965	13,177	13,766
	D	13,302	13,727	14,281
	C	12,849	11,935	11,806
	All	13,123	13,689	13,996
AUG	W	11,029	10,491	10,386
	AN	10,449	11,641	11,057
	BN	10,139	10,261	10,448
	D	10,627	10,986	10,593
	C	9,473	7,348	7,150
	All	10,476	10,269	10,067
SEP	W	9,385	12,833	13,164
	AN	5,862	9,898	9,125
	BN	5,492	5,601	4,502
	D	5,985	4,469	4,782
	C	5,563	4,368	4,279
	All	6,899	8,094	7,954
OCT	W	6,886	7,034	6,948
	AN	7,145	7,152	7,270
	BN	6,396	7,072	6,579
	D	6,128	6,494	6,910
	C	5,902	5,752	5,585
	All	6,530	6,752	6,724
NOV	W	6,672	7,539	6,551
	AN	6,224	7,134	5,900
	BN	5,088	5,936	5,157
	D	5,669	5,406	5,103
	C	4,822	4,710	4,854
	All	5,845	6,324	5,651
DEC	W	12,766	11,022	11,092
	AN	5,531	5,377	4,856
	BN	5,413	5,195	4,879
	D	4,215	3,936	3,713
	C	3,828	3,582	3,589
	All	7,267	6,557	6,401

1 **Table 2. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Keswick, Year-Round**

Alternative 7: Upstream—Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1T	NAA vs. A7_LL1T
JAN	W	2,468 (14.9%)	761 (4.2%)
	AN	113 (1.4%)	226 (2.7%)
	BN	-125 (-2.8%)	194 (4.6%)
	D	-404 (-10.1%)	-504 (-12.3%)
	C	-31 (-0.9%)	-778 (-18.4%)
	All	685 (7.9%)	83 (0.9%)
FEB	W	2,259 (12.2%)	-17 (-0.1%)
	AN	2,014 (14%)	1,126 (7.4%)
	BN	830 (13.9%)	1,267 (22.8%)
	D	-306 (-8.3%)	-33 (-1%)
	C	339 (9.4%)	565 (16.8%)
	All	1,135 (11%)	451 (4.1%)
MAR	W	938 (5.8%)	73 (0.4%)
	AN	-260 (-2.8%)	53 (0.6%)
	BN	-1,034 (-19.9%)	-153 (-3.5%)
	D	-69 (-1.8%)	20 (0.5%)
	C	-37 (-1.1%)	-133 (-3.7%)
	All	62 (0.7%)	-10 (-0.1%)
APR	W	-330 (-3.5%)	-43 (-0.5%)
	AN	-354 (-5.7%)	292 (5.3%)
	BN	-751 (-13.8%)	-333 (-6.7%)
	D	-496 (-8.6%)	-227 (-4.1%)
	C	-310 (-4.8%)	-388 (-5.9%)
	All	-439 (-6.2%)	-134 (-2%)
MAY	W	-2,120 (-22.3%)	239 (3.3%)
	AN	791 (10.3%)	717 (9.2%)
	BN	-976 (-13.6%)	-55 (-0.9%)
	D	100 (1.4%)	-233 (-3%)
	C	1,070 (15.9%)	470 (6.4%)
	All	-545 (-6.8%)	189 (2.6%)
JUN	W	829 (8%)	930 (9%)
	AN	1,443 (12.9%)	559 (4.6%)
	BN	163 (1.5%)	-26 (-0.2%)
	D	387 (3.4%)	-288 (-2.4%)
	C	1,089 (10.5%)	130 (1.1%)
	All	746 (6.9%)	328 (2.9%)
JUL	W	1,487 (11.6%)	168 (1.2%)
	AN	1,388 (9.9%)	347 (2.3%)
	BN	801 (6.2%)	589 (4.5%)
	D	979 (7.4%)	554 (4%)
	C	-1,043 (-8.1%)	-128 (-1.1%)
	All	873 (6.7%)	308 (2.2%)

Alternative 7: Upstream—Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1T	NAA vs. A7_LL1T
AUG	W	-643 (-5.8%)	-105 (-1%)
	AN	608 (5.8%)	-584 (-5%)
	BN	309 (3%)	187 (1.8%)
	D	-35 (-0.3%)	-393 (-3.6%)
	C	-2,322 (-24.5%)	-197 (-2.7%)
	All	-410 (-3.9%)	-202 (-2%)
SEP	W	3,779 (40.3%)	331 (2.6%)
	AN	3,263 (55.7%)	-772 (-7.8%)
	BN	-990 (-18%)	-1,099 (-19.6%)
	D	-1,204 (-20.1%)	313 (7%)
	C	-1,284 (-23.1%)	-90 (-2.1%)
	All	1,055 (15.3%)	-140 (-1.7%)
OCT	W	62 (0.9%)	-87 (-1.2%)
	AN	125 (1.8%)	118 (1.7%)
	BN	183 (2.9%)	-493 (-7%)
	D	782 (12.8%)	415 (6.4%)
	C	-318 (-5.4%)	-167 (-2.9%)
	All	194 (3%)	-28 (-0.4%)
NOV	W	-121 (-1.8%)	-988 (-13.1%)
	AN	-324 (-5.2%)	-1,234 (-17.3%)
	BN	69 (1.4%)	-779 (-13.1%)
	D	-566 (-10%)	-303 (-5.6%)
	C	32 (0.7%)	145 (3.1%)
	All	-194 (-3.3%)	-672 (-10.6%)
DEC	W	-1,673 (-13.1%)	70 (0.6%)
	AN	-675 (-12.2%)	-522 (-9.7%)
	BN	-534 (-9.9%)	-316 (-6.1%)
	D	-501 (-11.9%)	-223 (-5.7%)
	C	-239 (-6.3%)	7 (0.2%)
	All	-866 (-11.9%)	-156 (-2.4%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.7.1.2 Sacramento River Upstream of Red Bluff**

2 **Table 3. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River Upstream of Red**
 3 **Bluff, Year-Round**

Alternative 7: Upstream—Sacramento River Upstream of Red Bluff				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	28,036	30,390	31,146
	AN	16,725	16,885	17,111
	BN	9,381	9,146	9,338
	D	7,098	7,262	6,759
	C	6,143	6,942	6,171
	All	15,396	16,278	16,361
FEB	W	30,255	33,472	33,446
	AN	23,492	24,828	25,949
	BN	12,005	11,614	12,876
	D	8,947	8,790	8,759
	C	6,599	6,378	6,948
	All	18,010	19,092	19,540
MAR	W	25,004	26,210	26,282
	AN	16,599	16,428	16,473
	BN	9,333	8,474	8,300
	D	8,385	8,300	8,318
	C	5,999	6,101	5,961
	All	14,669	14,876	14,859
APR	W	15,172	14,842	14,800
	AN	10,477	9,761	10,055
	BN	8,711	8,282	7,960
	D	7,948	7,661	7,436
	C	7,742	7,829	7,444
	All	10,709	10,376	10,245
MAY	W	12,541	10,073	10,316
	AN	10,012	10,047	10,766
	BN	8,781	7,875	7,835
	D	8,677	9,012	8,785
	C	7,746	8,348	8,823
	All	9,979	9,208	9,404
JUN	W	11,905	11,720	12,654
	AN	12,001	12,789	13,353
	BN	11,464	11,651	11,640
	D	11,777	12,441	12,160
	C	10,885	11,881	11,972
	All	11,666	12,046	12,375
JUL	W	13,255	14,525	14,696
	AN	14,129	15,142	15,497
	BN	13,011	13,258	13,866
	D	13,368	13,826	14,390
	C	13,005	12,149	12,056
	All	13,329	13,898	14,218

Alternative 7: Upstream—Sacramento River Upstream of Red Bluff				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
AUG	W	11,284	10,735	10,638
	AN	10,580	11,775	11,200
	BN	10,202	10,364	10,564
	D	10,747	11,143	10,754
	C	9,590	7,665	7,555
	All	10,630	10,464	10,282
SEP	W	9,856	13,312	13,650
	AN	6,279	10,320	9,557
	BN	5,821	5,963	4,875
	D	6,391	4,911	5,231
	C	5,887	4,838	4,775
	All	7,302	8,535	8,406
OCT	W	8,020	8,188	8,104
	AN	8,112	8,162	8,284
	BN	7,094	7,778	7,283
	D	6,903	7,287	7,691
	C	6,670	6,537	6,398
	All	7,432	7,675	7,650
NOV	W	9,876	10,821	9,831
	AN	8,144	9,098	7,860
	BN	6,791	7,682	6,907
	D	7,548	7,347	7,040
	C	5,811	5,703	5,851
	All	7,990	8,521	7,848
DEC	W	21,015	19,613	19,688
	AN	10,019	10,053	9,538
	BN	8,408	8,228	7,917
	D	7,292	7,091	6,872
	C	5,628	5,433	5,438
	All	11,989	11,446	11,294

1 **Table 4. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **Upstream of Red Bluff, Year-Round**

Alternative 7: Upstream—Sacramento River Upstream of Red Bluff			
Month	WYT	EXISTING CONDITIONS vs. A7_LLTT	NAA vs. A7_LLTT
JAN	W	3,109 (11.1%)	756 (2.5%)
	AN	386 (2.3%)	225 (1.3%)
	BN	-43 (-0.5%)	192 (2.1%)
	D	-339 (-4.8%)	-503 (-6.9%)
	C	27 (0.4%)	-771 (-11.1%)
	All	965 (6.3%)	82 (0.5%)
FEB	W	3,192 (10.5%)	-25 (-0.1%)
	AN	2,457 (10.5%)	1,121 (4.5%)
	BN	872 (7.3%)	1,262 (10.9%)
	D	-188 (-2.1%)	-31 (-0.4%)
	C	350 (5.3%)	570 (8.9%)
	All	1,530 (8.5%)	448 (2.3%)
MAR	W	1,278 (5.1%)	71 (0.3%)
	AN	-126 (-0.8%)	45 (0.3%)
	BN	-1,033 (-11.1%)	-174 (-2.1%)
	D	-66 (-0.8%)	19 (0.2%)
	C	-38 (-0.6%)	-141 (-2.3%)
	All	190 (1.3%)	-17 (-0.1%)
APR	W	-372 (-2.5%)	-42 (-0.3%)
	AN	-422 (-4%)	294 (3%)
	BN	-751 (-8.6%)	-323 (-3.9%)
	D	-512 (-6.4%)	-225 (-2.9%)
	C	-298 (-3.8%)	-385 (-4.9%)
	All	-464 (-4.3%)	-131 (-1.3%)
MAY	W	-2,225 (-17.7%)	243 (2.4%)
	AN	754 (7.5%)	719 (7.2%)
	BN	-946 (-10.8%)	-40 (-0.5%)
	D	108 (1.2%)	-227 (-2.5%)
	C	1,077 (13.9%)	475 (5.7%)
	All	-575 (-5.8%)	195 (2.1%)
JUN	W	749 (6.3%)	934 (8%)
	AN	1,352 (11.3%)	564 (4.4%)
	BN	176 (1.5%)	-10 (-0.1%)
	D	383 (3.3%)	-280 (-2.3%)
	C	1,087 (10%)	91 (0.8%)
	All	709 (6.1%)	329 (2.7%)
JUL	W	1,442 (10.9%)	172 (1.2%)
	AN	1,367 (9.7%)	355 (2.3%)
	BN	855 (6.6%)	608 (4.6%)
	D	1,021 (7.6%)	563 (4.1%)
	C	-949 (-7.3%)	-94 (-0.8%)
	All	888 (6.7%)	320 (2.3%)

Alternative 7: Upstream—Sacramento River Upstream of Red Bluff			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1T	NAA vs. A7_LL1T
AUG	W	-646 (-5.7%)	-98 (-0.9%)
	AN	619 (5.9%)	-576 (-4.9%)
	BN	362 (3.5%)	200 (1.9%)
	D	7 (0.1%)	-389 (-3.5%)
	C	-2,035 (-21.2%)	-110 (-1.4%)
	All	-349 (-3.3%)	-183 (-1.7%)
SEP	W	3,794 (38.5%)	338 (2.5%)
	AN	3,278 (52.2%)	-763 (-7.4%)
	BN	-945 (-16.2%)	-1,088 (-18.2%)
	D	-1,160 (-18.2%)	320 (6.5%)
	C	-1,111 (-18.9%)	-62 (-1.3%)
	All	1,104 (15.1%)	-129 (-1.5%)
OCT	W	84 (1%)	-84 (-1%)
	AN	172 (2.1%)	122 (1.5%)
	BN	189 (2.7%)	-495 (-6.4%)
	D	788 (11.4%)	404 (5.5%)
	C	-272 (-4.1%)	-139 (-2.1%)
	All	217 (2.9%)	-25 (-0.3%)
NOV	W	-45 (-0.5%)	-990 (-9.1%)
	AN	-283 (-3.5%)	-1,237 (-13.6%)
	BN	117 (1.7%)	-775 (-10.1%)
	D	-508 (-6.7%)	-307 (-4.2%)
	C	39 (0.7%)	147 (2.6%)
	All	-142 (-1.8%)	-673 (-7.9%)
DEC	W	-1,327 (-6.3%)	75 (0.4%)
	AN	-482 (-4.8%)	-515 (-5.1%)
	BN	-491 (-5.8%)	-311 (-3.8%)
	D	-420 (-5.8%)	-220 (-3.1%)
	C	-190 (-3.4%)	5 (0.1%)
	All	-695 (-5.8%)	-152 (-1.3%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.7.1.3 Sacramento River at Wilkins Slough**

2 **Table 5. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Wilkins Slough,**
 3 **Year-Round**

Alternative 7: Upstream—Sacramento River at Wilkins Slough				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	19,145	19,320	19,364
	AN	17,084	16,593	16,644
	BN	12,521	12,143	12,319
	D	8,896	9,189	8,745
	C	7,858	8,586	7,814
	All	13,811	13,901	13,742
FEB	W	19,887	20,044	20,031
	AN	19,139	19,095	19,147
	BN	14,528	14,328	14,689
	D	11,520	11,473	11,453
	C	8,499	8,158	8,766
	All	15,359	15,309	15,458
MAR	W	18,223	18,323	18,327
	AN	17,696	17,537	17,685
	BN	12,208	11,534	11,358
	D	11,364	11,191	11,357
	C	8,101	8,166	7,987
	All	14,132	13,997	14,000
APR	W	13,392	13,119	13,065
	AN	10,264	9,783	10,035
	BN	7,152	6,858	6,552
	D	5,319	5,112	4,908
	C	4,164	4,331	3,984
	All	8,746	8,518	8,390
MAY	W	10,467	8,435	8,750
	AN	7,318	7,500	8,269
	BN	5,638	4,871	4,892
	D	4,669	5,088	4,908
	C	3,998	4,528	5,047
	All	6,962	6,383	6,636
JUN	W	6,503	6,435	7,407
	AN	5,781	6,530	7,143
	BN	5,243	5,628	5,738
	D	5,245	6,075	5,862
	C	5,140	6,253	6,175
	All	5,707	6,205	6,564
JUL	W	6,685	7,771	7,967
	AN	6,971	7,892	8,316
	BN	6,122	6,560	7,310
	D	6,788	7,474	8,065
	C	7,162	6,649	6,757
	All	6,723	7,353	7,750

Alternative 7: Upstream—Sacramento River at Wilkins Slough				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
AU	W	6,287	5,537	5,488
	AN	5,498	6,610	6,081
	BN	5,138	5,462	5,697
	D	5,833	6,356	5,933
	C	5,551	4,719	5,077
	All	5,768	5,741	5,648
SEP	W	9,338	12,737	13,107
	AN	5,631	9,546	8,844
	BN	5,128	5,216	4,125
	D	5,636	4,114	4,457
	C	5,200	4,354	4,295
	All	6,658	7,866	7,761
OCT	W	7,347	7,382	7,340
	AN	6,799	6,927	7,028
	BN	5,987	6,570	6,092
	D	5,688	6,040	6,445
	C	5,642	5,572	5,511
	All	6,421	6,617	6,617
NOV	W	9,644	10,889	9,861
	AN	8,210	9,141	7,913
	BN	6,793	7,588	6,859
	D	7,407	7,227	6,915
	C	5,118	4,986	5,135
	All	7,794	8,402	7,725
DEC	W	17,881	17,257	17,408
	AN	10,809	10,755	10,516
	BN	8,505	8,258	8,222
	D	8,950	8,725	8,533
	C	6,229	5,981	5,951
	All	11,580	11,246	11,206

1 **Table 6. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Wilkins Slough, Year-Round**

Alternative 7: Upstream—Sacramento River at Wilkins Slough			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	219 (1.1%)	44 (0.2%)
	AN	-439 (-2.6%)	51 (0.3%)
	BN	-202 (-1.6%)	175 (1.4%)
	D	-150 (-1.7%)	-443 (-4.8%)
	C	-44 (-0.6%)	-772 (-9%)
	All	-69 (-0.5%)	-159 (-1.1%)
FEB	W	144 (0.7%)	-13 (-0.1%)
	AN	8 (0%)	52 (0.3%)
	BN	161 (1.1%)	362 (2.5%)
	D	-67 (-0.6%)	-21 (-0.2%)
	C	267 (3.1%)	608 (7.4%)
	All	99 (0.6%)	150 (1%)
MAR	W	105 (0.6%)	5 (0%)
	AN	-10 (-0.1%)	149 (0.8%)
	BN	-850 (-7%)	-176 (-1.5%)
	D	-7 (-0.1%)	166 (1.5%)
	C	-114 (-1.4%)	-179 (-2.2%)
	All	-132 (-0.9%)	3 (0%)
APR	W	-327 (-2.4%)	-54 (-0.4%)
	AN	-228 (-2.2%)	253 (2.6%)
	BN	-600 (-8.4%)	-306 (-4.5%)
	D	-412 (-7.7%)	-204 (-4%)
	C	-180 (-4.3%)	-347 (-8%)
	All	-356 (-4.1%)	-128 (-1.5%)
MAY	W	-1,717 (-16.4%)	314 (3.7%)
	AN	951 (13%)	770 (10.3%)
	BN	-746 (-13.2%)	21 (0.4%)
	D	238 (5.1%)	-180 (-3.5%)
	C	1,049 (26.2%)	519 (11.5%)
	All	-327 (-4.7%)	252 (4%)
JUN	W	903 (13.9%)	971 (15.1%)
	AN	1,362 (23.6%)	613 (9.4%)
	BN	495 (9.4%)	110 (2%)
	D	617 (11.8%)	-213 (-3.5%)
	C	1,035 (20.1%)	-78 (-1.2%)
	All	857 (15%)	358 (5.8%)
JUL	W	1,283 (19.2%)	197 (2.5%)
	AN	1,345 (19.3%)	424 (5.4%)
	BN	1,188 (19.4%)	750 (11.4%)
	D	1,277 (18.8%)	590 (7.9%)
	C	-404 (-5.6%)	108 (1.6%)
	All	1,028 (15.3%)	398 (5.4%)

Alternative 7: Upstream—Sacramento River at Wilkins Slough			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
AUG	W	-799 (-12.7%)	-49 (-0.9%)
	AN	583 (10.6%)	-529 (-8%)
	BN	560 (10.9%)	235 (4.3%)
	D	100 (1.7%)	-423 (-6.6%)
	C	-475 (-8.5%)	358 (7.6%)
	All	-120 (-2.1%)	-93 (-1.6%)
SEP	W	3,769 (40.4%)	369 (2.9%)
	AN	3,212 (57%)	-702 (-7.4%)
	BN	-1,003 (-19.6%)	-1,091 (-20.9%)
	D	-1,179 (-20.9%)	343 (8.3%)
	C	-905 (-17.4%)	-59 (-1.4%)
	All	1,103 (16.6%)	-105 (-1.3%)
OCT	W	-7 (-0.1%)	-42 (-0.6%)
	AN	229 (3.4%)	101 (1.5%)
	BN	105 (1.8%)	-478 (-7.3%)
	D	757 (13.3%)	405 (6.7%)
	C	-131 (-2.3%)	-61 (-1.1%)
	All	196 (3.1%)	0 (0%)
NOV	W	217 (2.3%)	-1,028 (-9.4%)
	AN	-297 (-3.6%)	-1,228 (-13.4%)
	BN	66 (1%)	-729 (-9.6%)
	D	-492 (-6.6%)	-312 (-4.3%)
	C	17 (0.3%)	150 (3%)
	All	-69 (-0.9%)	-677 (-8.1%)
DEC	W	-473 (-2.6%)	151 (0.9%)
	AN	-293 (-2.7%)	-239 (-2.2%)
	BN	-283 (-3.3%)	-36 (-0.4%)
	D	-417 (-4.7%)	-192 (-2.2%)
	C	-278 (-4.5%)	-30 (-0.5%)
	All	-373 (-3.2%)	-40 (-0.4%)

1 **11C.7.1.4 Sacramento River at Verona**

2 **Table 7. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Verona,**
 3 **Year-Round**

Alternative 7: Upstream—Sacramento River at Verona				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	44,589	45,567	44,193
	AN	34,120	33,671	31,826
	BN	20,175	19,121	17,431
	D	14,756	14,782	13,646
	C	12,085	13,051	11,541
	All	27,583	27,795	26,330
FEB	W	49,892	51,326	49,753
	AN	39,162	39,749	38,633
	BN	26,429	25,341	23,802
	D	18,402	18,090	17,006
	C	12,822	12,325	12,617
	All	31,979	32,192	31,072
MAR	W	43,455	44,624	41,950
	AN	39,477	39,687	37,245
	BN	21,484	19,448	18,407
	D	17,868	17,649	16,486
	C	11,903	11,789	11,175
	All	28,888	28,877	27,149
APR	W	32,219	31,636	30,499
	AN	22,250	21,313	20,511
	BN	14,459	13,857	13,252
	D	11,113	10,903	10,623
	C	9,420	9,489	9,037
	All	19,759	19,298	18,589
MAY	W	26,193	20,229	20,707
	AN	17,079	16,002	17,086
	BN	11,451	10,534	10,228
	D	9,283	9,841	9,072
	C	7,125	7,611	8,431
	All	15,840	13,828	14,037
JUN	W	18,367	15,304	16,679
	AN	13,590	13,574	15,511
	BN	11,062	11,320	11,384
	D	10,429	10,780	9,919
	C	8,911	9,827	10,998
	All	13,295	12,576	13,289
JUL	W	16,253	17,965	17,385
	AN	17,488	18,338	18,214
	BN	16,698	16,598	16,835
	D	16,352	16,465	14,218
	C	14,476	12,457	10,783
	All	16,271	16,651	15,751

Alternative 7: Upstream—Sacramento River at Verona				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
AUG	W	12,464	14,016	12,651
	AN	13,691	15,828	14,233
	BN	13,389	14,074	13,909
	D	14,688	13,018	10,784
	C	9,207	8,085	10,120
	All	12,813	13,204	12,317
SEP	W	14,279	23,592	22,515
	AN	10,537	19,044	16,168
	BN	9,961	10,576	8,662
	D	10,542	7,664	7,932
	C	7,764	6,832	7,096
	All	11,220	14,755	13,763
OCT	W	11,503	11,232	11,362
	AN	9,381	9,890	10,068
	BN	9,867	10,146	10,001
	D	8,681	8,989	9,756
	C	8,543	8,104	8,779
	All	9,861	9,900	10,210
NOV	W	15,307	15,754	14,756
	AN	11,792	12,817	11,368
	BN	9,852	10,437	9,711
	D	10,157	9,731	9,521
	C	7,341	7,223	7,370
	All	11,565	11,846	11,169
DEC	W	33,840	31,254	29,536
	AN	17,572	18,481	16,640
	BN	13,099	13,028	12,122
	D	12,685	12,532	11,572
	C	9,770	8,627	8,470
	All	19,752	18,852	17,650

1 **Table 8. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Verona, Year-Round**

Alternative 7: Upstream—Sacramento River at Verona			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	-396 (-0.9%)	-1,374 (-3%)
	AN	-2,294 (-6.7%)	-1,845 (-5.5%)
	BN	-2,744 (-13.6%)	-1,690 (-8.8%)
	D	-1,110 (-7.5%)	-1,136 (-7.7%)
	C	-544 (-4.5%)	-1,510 (-11.6%)
	All	-1,253 (-4.5%)	-1,465 (-5.3%)
FEB	W	-139 (-0.3%)	-1,573 (-3.1%)
	AN	-529 (-1.4%)	-1,116 (-2.8%)
	BN	-2,627 (-9.9%)	-1,539 (-6.1%)
	D	-1,396 (-7.6%)	-1,084 (-6%)
	C	-205 (-1.6%)	292 (2.4%)
	All	-906 (-2.8%)	-1,120 (-3.5%)
MAR	W	-1,505 (-3.5%)	-2,674 (-6%)
	AN	-2,232 (-5.7%)	-2,442 (-6.2%)
	BN	-3,077 (-14.3%)	-1,041 (-5.4%)
	D	-1,382 (-7.7%)	-1,163 (-6.6%)
	C	-729 (-6.1%)	-615 (-5.2%)
	All	-1,739 (-6%)	-1,728 (-6%)
APR	W	-1,720 (-5.3%)	-1,137 (-3.6%)
	AN	-1,740 (-7.8%)	-802 (-3.8%)
	BN	-1,206 (-8.3%)	-605 (-4.4%)
	D	-491 (-4.4%)	-280 (-2.6%)
	C	-383 (-4.1%)	-452 (-4.8%)
	All	-1,170 (-5.9%)	-709 (-3.7%)
MAY	W	-5,486 (-20.9%)	479 (2.4%)
	AN	7 (0%)	1,084 (6.8%)
	BN	-1,224 (-10.7%)	-307 (-2.9%)
	D	-212 (-2.3%)	-769 (-7.8%)
	C	1,306 (18.3%)	820 (10.8%)
	All	-1,803 (-11.4%)	209 (1.5%)
JUN	W	-1,688 (-9.2%)	1,376 (9%)
	AN	1,921 (14.1%)	1,937 (14.3%)
	BN	322 (2.9%)	64 (0.6%)
	D	-510 (-4.9%)	-862 (-8%)
	C	2,087 (23.4%)	1,171 (11.9%)
	All	-6 (0%)	713 (5.7%)
JUL	W	1,132 (7%)	-580 (-3.2%)
	AN	726 (4.1%)	-124 (-0.7%)
	BN	137 (0.8%)	236 (1.4%)
	D	-2,134 (-13.1%)	-2,247 (-13.6%)
	C	-3,693 (-25.5%)	-1,675 (-13.4%)
	All	-520 (-3.2%)	-900 (-5.4%)

Alternative 7: Upstream—Sacramento River at Verona			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1T	NAA vs. A7_LL1T
AUG	W	187 (1.5%)	-1,365 (-9.7%)
	AN	541 (4%)	-1,596 (-10.1%)
	BN	520 (3.9%)	-165 (-1.2%)
	D	-3,904 (-26.6%)	-2,234 (-17.2%)
	C	913 (9.9%)	2,035 (25.2%)
	All	-496 (-3.9%)	-887 (-6.7%)
SEP	W	8,235 (57.7%)	-1,077 (-4.6%)
	AN	5,631 (53.4%)	-2,876 (-15.1%)
	BN	-1,298 (-13%)	-1,913 (-18.1%)
	D	-2,609 (-24.8%)	269 (3.5%)
	C	-669 (-8.6%)	264 (3.9%)
	All	2,543 (22.7%)	-992 (-6.7%)
OCT	W	-142 (-1.2%)	130 (1.2%)
	AN	688 (7.3%)	178 (1.8%)
	BN	135 (1.4%)	-145 (-1.4%)
	D	1,075 (12.4%)	767 (8.5%)
	C	236 (2.8%)	675 (8.3%)
	All	349 (3.5%)	310 (3.1%)
NOV	W	-551 (-3.6%)	-999 (-6.3%)
	AN	-424 (-3.6%)	-1,449 (-11.3%)
	BN	-141 (-1.4%)	-726 (-7%)
	D	-636 (-6.3%)	-210 (-2.2%)
	C	29 (0.4%)	147 (2%)
	All	-396 (-3.4%)	-677 (-5.7%)
DEC	W	-4,304 (-12.7%)	-1,718 (-5.5%)
	AN	-932 (-5.3%)	-1,840 (-10%)
	BN	-977 (-7.5%)	-906 (-7%)
	D	-1,113 (-8.8%)	-960 (-7.7%)
	C	-1,300 (-13.3%)	-157 (-1.8%)
	All	-2,103 (-10.6%)	-1,203 (-6.4%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.7.1.5 Trinity River below Lewiston**2 **Table 9. Mean Monthly Flows (cfs) for Model Scenarios in the Trinity River Below Lewiston,**
3 **Year-Round**

Alternative 7: Upstream—Trinity River below Lewiston				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	1,440	1,518	1,477
	AN	300	300	300
	BN	358	300	300
	D	300	300	300
	C	300	287	278
	All	671	684	670
FEB	W	1,056	1,495	1,550
	AN	689	784	821
	BN	517	568	662
	D	300	300	300
	C	300	300	300
	All	634	795	834
MAR	W	1,209	1,385	1,436
	AN	436	519	519
	BN	319	300	300
	D	300	300	300
	C	300	300	300
	All	611	676	692
APR	W	721	844	844
	AN	469	513	458
	BN	507	504	504
	D	529	529	529
	C	575	580	580
	All	584	630	622
MAY	W	4,636	4,620	4,620
	AN	4,462	4,416	4,416
	BN	3,774	3,865	3,865
	D	3,216	3,216	3,216
	C	2,092	1,973	1,973
	All	3,779	3,766	3,766
JUN	W	3,371	3,560	3,560
	AN	2,488	3,188	3,188
	BN	1,672	1,767	1,767
	D	1,251	1,251	1,251
	C	783	783	783
	All	2,108	2,286	2,286
JUL	W	1,289	1,103	1,103
	AN	1,048	1,048	1,048
	BN	869	916	916
	D	667	667	667
	C	450	413	450
	All	923	866	872

Alternative 7: Upstream—Trinity River below Lewiston				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
AUG	W	450	450	450
	AN	450	450	450
	BN	450	450	450
	D	450	450	450
	C	450	338	300
	All	450	434	428
SEP	W	450	450	450
	AN	450	450	450
	BN	450	450	450
	D	450	450	450
	C	450	265	228
	All	450	423	417
OCT	W	373	373	373
	AN	373	311	329
	BN	346	346	346
	D	373	346	352
	C	373	311	280
	All	368	344	344
NOV	W	489	414	385
	AN	300	275	250
	BN	300	300	300
	D	300	283	283
	C	300	225	225
	All	360	318	305
DEC	W	1,072	837	905
	AN	300	300	300
	BN	300	300	300
	D	300	300	300
	C	300	275	273
	All	545	466	488

1 **Table 10. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Trinity River**
 2 **Below Lewiston, Year-Round**

Alternative 7: Upstream—Trinity River below Lewiston			
Month	WYT	EXISTING CONDITIONS vs. A7_LLТ	NAA vs. A7_LLТ
JAN	W	37 (2.6%)	-41 (-2.7%)
	AN	0 (0%)	0 (0%)
	BN	-58 (-16.3%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-22 (-7.2%)	-9 (-3.1%)
	All	-1 (-0.2%)	-14 (-2.1%)
FEB	W	494 (46.7%)	55 (3.7%)
	AN	132 (19.2%)	38 (4.8%)
	BN	145 (28.1%)	94 (16.5%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	201 (31.7%)	39 (4.9%)
MAR	W	227 (18.8%)	51 (3.7%)
	AN	83 (19.1%)	0 (0%)
	BN	-19 (-5.8%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	81 (13.3%)	16 (2.4%)
APR	W	122 (17%)	0 (0%)
	AN	-11 (-2.3%)	-54 (-10.6%)
	BN	-3 (-0.7%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	5 (0.9%)	0 (0%)
	All	37 (6.4%)	-8 (-1.3%)
MAY	W	-16 (-0.3%)	0 (0%)
	AN	-46 (-1%)	0 (0%)
	BN	90 (2.4%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-119 (-5.7%)	0 (0%)
	All	-14 (-0.4%)	0 (0%)
JUN	W	189 (5.6%)	0 (0%)
	AN	700 (28.1%)	0 (0%)
	BN	96 (5.7%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	179 (8.5%)	0 (0%)
JUL	W	-185 (-14.4%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	47 (5.4%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	37 (9.1%)
	All	-51 (-5.5%)	5 (0.6%)

Alternative 7: Upstream—Trinity River below Lewiston			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1T	NAA vs. A7_LL1T
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-150 (-33.3%)	-38 (-11.1%)
	All	-22 (-4.9%)	-5 (-1.3%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-222 (-49.4%)	-37 (-14.1%)
	All	-33 (-7.2%)	-5 (-1.3%)
OCT	W	0 (0%)	0 (0%)
	AN	-44 (-11.9%)	18 (5.7%)
	BN	0 (0%)	0 (0%)
	D	-21 (-5.6%)	6 (1.9%)
	C	-93 (-25%)	-31 (-10%)
	All	-25 (-6.7%)	-1 (-0.2%)
NOV	W	-104 (-21.3%)	-29 (-7.1%)
	AN	-50 (-16.7%)	-25 (-9.1%)
	BN	0 (0%)	0 (0%)
	D	-17 (-5.6%)	0 (0%)
	C	-75 (-25%)	0 (0%)
	All	-55 (-15.3%)	-13 (-4.1%)
DEC	W	-167 (-15.6%)	68 (8.1%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-27 (-9.1%)	-2 (-0.7%)
	All	-57 (-10.4%)	21 (4.6%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.7.1.6 Clear Creek below Whiskeytown**2 **Table 11. Mean Monthly Flows (cfs) for Model Scenarios in Clear Creek Below Whiskeytown,**
3 **Year-Round**

Alternative 7: Upstream—Clear Creek below Whiskeytown				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	220	339	339
	AN	192	192	192
	BN	189	189	189
	D	184	192	192
	C	155	159	168
	All	193	233	234
FEB	W	220	257	257
	AN	197	196	196
	BN	189	189	189
	D	184	192	192
	C	155	168	168
	All	194	209	209
MAR	W	200	259	258
	AN	197	196	196
	BN	189	202	189
	D	186	192	192
	C	155	168	168
	All	188	212	210
APR	W	200	200	200
	AN	197	196	196
	BN	189	189	189
	D	188	192	192
	C	155	168	168
	All	189	191	191
MAY	W	277	277	277
	AN	277	277	277
	BN	263	269	269
	D	264	264	264
	C	211	224	224
	All	262	265	265
JUN	W	200	200	200
	AN	200	200	200
	BN	181	186	186
	D	180	180	180
	C	115	131	131
	All	180	183	183
JUL	W	85	85	85
	AN	85	85	85
	BN	85	85	85
	D	85	85	85
	C	85	85	85
	All	85	85	85

Alternative 7: Upstream—Clear Creek below Whiskeytown				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
AUG	W	85	85	85
	AN	85	85	85
	BN	85	85	85
	D	85	85	85
	C	94	71	78
	All	86	83	84
SEP	W	150	150	150
	AN	150	150	150
	BN	150	150	150
	D	144	150	150
	C	133	96	83
	All	146	142	140
OCT	W	198	198	198
	AN	183	183	183
	BN	189	182	179
	D	175	183	175
	C	150	142	154
	All	182	182	181
NOV	W	198	198	198
	AN	185	182	182
	BN	184	189	189
	D	177	177	176
	C	155	145	149
	All	183	182	182
DEC	W	198	198	198
	AN	185	192	192
	BN	189	189	189
	D	177	189	189
	C	155	156	158
	All	184	187	188

1 **Table 12. Differences^a (Percent Differences) between Pairs of Model Scenarios in Clear Creek Below**
 2 **Whiskeytown, Year-Round**

Alternative 7: Upstream—Clear Creek below Whiskeytown			
Month	WYT	EXISTING CONDITIONS vs. A7_LLТ	NAA vs. A7_LLТ
JAN	W	118 (53.6%)	0 (-0.1%)
	AN	0 (-0.1%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	7 (3.9%)	0 (0%)
	C	13 (8.4%)	9 (5.6%)
	All	41 (21.2%)	1 (0.5%)
FEB	W	38 (17.1%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	7 (3.9%)	0 (0%)
	C	13 (8.4%)	0 (0%)
	All	15 (7.9%)	0 (0%)
MAR	W	58 (29.2%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	-12 (-6.1%)
	D	6 (3.2%)	0 (0%)
	C	13 (8.4%)	0 (0%)
	All	22 (11.5%)	-2 (-1%)
APR	W	0 (0%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	3 (1.7%)	0 (0%)
	C	13 (8.4%)	0 (0%)
	All	2 (1.3%)	0 (0%)
MAY	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	6 (2.2%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	13 (6.2%)	0 (0%)
	All	3 (1.1%)	0 (0%)
JUN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	5 (2.6%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	16 (14.1%)	0 (0%)
	All	3 (1.8%)	0 (0%)
JUL	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)

Alternative 7: Upstream—Clear Creek below Whiskeytown			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1T	NAA vs. A7_LL1T
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-16 (-17.4%)	7 (10%)
	All	-2 (-2.8%)	1 (1.2%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	6 (3.8%)	0 (0%)
	C	-50 (-37.5%)	-13 (-13%)
	All	-6 (-4.2%)	-2 (-1.3%)
OCT	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	-11 (-5.7%)	-3 (-1.8%)
	D	0 (0%)	-8 (-4.5%)
	C	4 (2.8%)	12 (8.8%)
	All	-1 (-0.7%)	-1 (-0.3%)
NOV	W	0 (0%)	0 (0%)
	AN	-3 (-1.8%)	0 (0%)
	BN	6 (3.1%)	0 (0%)
	D	-1 (-0.6%)	0 (-0.2%)
	C	-6 (-3.7%)	4 (2.6%)
	All	-1 (-0.3%)	0 (0.3%)
DEC	W	0 (0%)	0 (0%)
	AN	7 (3.6%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	12 (6.6%)	0 (0%)
	C	3 (1.8%)	2 (1.3%)
	All	4 (2.1%)	0 (0.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.7.1.7 Feather River Low-Flow Channel (Upstream of Thermalito**
 2 **Afterbay)**

3 **Table 13. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River Upstream of Thermalito**
 4 **Afterbay (Low-Flow Channel), Year-Round**

Alternative 7: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
FEB	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
MAR	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
APR	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
MAY	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
JUN	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
JUL	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700

Alternative 7: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
AUG	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
SEP	W	773	773	773
	AN	773	773	773
	BN	773	773	773
	D	773	773	773
	C	773	773	773
	All	773	773	773
OCT	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
NOV	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
DEC	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800

1 **Table 14. Differences (Percent Differences) between Pairs of Model Scenarios in the Feather River**
 2 **Upstream of Thermalito Afterbay (Low-Flow Channel), Year-Round**

Alternative 7: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
FEB	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
MAR	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
APR	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
MAY	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
JUN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
JUL	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)

Alternative 7: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
OCT	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
NOV	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
DEC	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)

1 **11C.7.1.8 Feather River High-Flow Channel (at Thermalito Afterbay)**

2 **Table 15. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at Thermalito Afterbay**
 3 **(High-Flow Channel), Year-Round**

Alternative 7: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL7
JAN	W	11,257	11,896	13,052
	AN	4,434	2,838	3,867
	BN	2,640	1,441	1,496
	D	1,798	1,459	1,419
	C	1,459	1,648	1,255
	All	5,277	4,995	5,455
FEB	W	12,466	14,787	16,549
	AN	7,411	5,809	7,513
	BN	3,916	1,897	2,106
	D	1,817	1,659	1,573
	C	1,610	1,482	1,676
	All	6,340	6,444	7,297
MAR	W	12,895	14,772	14,548
	AN	7,733	8,568	9,566
	BN	3,373	1,985	2,573
	D	2,017	1,762	1,805
	C	1,697	1,634	1,575
	All	6,487	6,902	7,079
APR	W	6,472	6,408	6,403
	AN	2,251	2,170	2,164
	BN	1,205	1,203	1,160
	D	1,286	1,470	1,496
	C	1,389	1,407	1,312
	All	3,073	3,084	3,065
MAY	W	7,528	4,740	4,889
	AN	3,340	3,101	3,405
	BN	1,205	1,749	1,415
	D	1,591	2,223	1,638
	C	1,574	1,790	2,092
	All	3,661	3,005	2,956
JUN	W	5,062	4,211	4,629
	AN	3,301	3,930	5,282
	BN	2,707	3,552	3,550
	D	3,134	3,284	2,687
	C	2,695	2,666	4,091
	All	3,632	3,628	4,035
JUL	W	6,490	8,577	8,000
	AN	8,757	9,488	9,111
	BN	8,981	8,833	8,619
	D	8,294	8,099	5,541
	C	6,703	5,217	3,538
	All	7,674	8,157	7,076

Alternative 7: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
AUG	W	3,308	6,228	5,398
	AN	6,042	7,346	6,520
	BN	6,295	6,868	6,870
	D	7,036	4,990	3,501
	C	2,613	2,163	4,063
	All	4,935	5,634	5,202
SEP	W	2,280	8,327	6,955
	AN	2,253	6,899	4,732
	BN	2,466	3,068	2,281
	D	2,366	1,052	1,196
	C	1,421	1,345	1,832
	All	2,201	4,601	3,818
OCT	W	3,456	3,051	3,219
	AN	2,386	2,741	2,840
	BN	3,183	2,862	3,207
	D	2,688	2,652	3,012
	C	2,472	2,102	2,840
	All	2,940	2,747	3,061
NOV	W	3,292	2,470	2,505
	AN	1,824	2,119	1,877
	BN	2,101	1,900	1,904
	D	1,859	1,664	1,764
	C	1,854	1,876	1,901
	All	2,349	2,058	2,059
DEC	W	7,157	3,948	5,527
	AN	2,951	3,344	3,010
	BN	2,176	2,102	1,525
	D	2,364	2,229	1,754
	C	2,609	1,694	1,611
	All	3,973	2,837	3,074

1 **Table 16. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Feather River at**
 2 **Thermalito Afterbay (High-Flow Channel), Year-Round**

Alternative 7: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A7_LL	NAA vs. A7_LL
JAN	W	1,794 (15.9%)	1,156 (9.7%)
	AN	-566 (-12.8%)	1,029 (36.3%)
	BN	-1,144 (-43.3%)	55 (3.8%)
	D	-379 (-21.1%)	-40 (-2.7%)
	C	-204 (-14%)	-393 (-23.8%)
	All	178 (3.4%)	460 (9.2%)
FEB	W	4,083 (32.8%)	1,762 (11.9%)
	AN	103 (1.4%)	1,705 (29.3%)
	BN	-1,810 (-46.2%)	210 (11.1%)
	D	-244 (-13.4%)	-86 (-5.2%)
	C	66 (4.1%)	195 (13.1%)
	All	957 (15.1%)	854 (13.2%)
MAR	W	1,654 (12.8%)	-224 (-1.5%)
	AN	1,834 (23.7%)	999 (11.7%)
	BN	-800 (-23.7%)	588 (29.6%)
	D	-212 (-10.5%)	43 (2.4%)
	C	-122 (-7.2%)	-59 (-3.6%)
	All	592 (9.1%)	176 (2.6%)
APR	W	-70 (-1.1%)	-6 (-0.1%)
	AN	-87 (-3.9%)	-6 (-0.3%)
	BN	-45 (-3.7%)	-43 (-3.6%)
	D	210 (16.4%)	26 (1.8%)
	C	-77 (-5.5%)	-95 (-6.8%)
	All	-8 (-0.2%)	-18 (-0.6%)
MAY	W	-2,639 (-35.1%)	149 (3.1%)
	AN	65 (1.9%)	303 (9.8%)
	BN	209 (17.4%)	-334 (-19.1%)
	D	47 (3%)	-585 (-26.3%)
	C	518 (32.9%)	302 (16.9%)
	All	-706 (-19.3%)	-50 (-1.7%)
JUN	W	-433 (-8.5%)	418 (9.9%)
	AN	1,981 (60%)	1,352 (34.4%)
	BN	843 (31.1%)	-2 (-0.1%)
	D	-446 (-14.2%)	-597 (-18.2%)
	C	1,396 (51.8%)	1,425 (53.4%)
	All	403 (11.1%)	408 (11.2%)
JUL	W	1,510 (23.3%)	-577 (-6.7%)
	AN	354 (4%)	-377 (-4%)
	BN	-361 (-4%)	-213 (-2.4%)
	D	-2,753 (-33.2%)	-2,557 (-31.6%)
	C	-3,165 (-47.2%)	-1,679 (-32.2%)
	All	-599 (-7.8%)	-1,082 (-13.3%)

Alternative 7: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
AUG	W	2,089 (63.2%)	-830 (-13.3%)
	AN	478 (7.9%)	-825 (-11.2%)
	BN	576 (9.1%)	2 (0%)
	D	-3,535 (-50.2%)	-1,489 (-29.8%)
	C	1,450 (55.5%)	1,900 (87.8%)
	All	267 (5.4%)	-433 (-7.7%)
SEP	W	4,675 (205%)	-1,372 (-16.5%)
	AN	2,479 (110%)	-2,168 (-31.4%)
	BN	-185 (-7.5%)	-788 (-25.7%)
	D	-1,170 (-49.5%)	144 (13.7%)
	C	411 (28.9%)	487 (36.2%)
	All	1,617 (73.5%)	-784 (-17%)
OCT	W	-237 (-6.9%)	168 (5.5%)
	AN	454 (19%)	99 (3.6%)
	BN	24 (0.7%)	345 (12.1%)
	D	324 (12.1%)	360 (13.6%)
	C	368 (14.9%)	737 (35.1%)
	All	120 (4.1%)	314 (11.4%)
NOV	W	-787 (-23.9%)	35 (1.4%)
	AN	53 (2.9%)	-242 (-11.4%)
	BN	-197 (-9.4%)	4 (0.2%)
	D	-96 (-5.2%)	99 (6%)
	C	47 (2.5%)	25 (1.3%)
	All	-290 (-12.3%)	2 (0.1%)
DEC	W	-1,630 (-22.8%)	1,580 (40%)
	AN	59 (2%)	-334 (-10%)
	BN	-650 (-29.9%)	-577 (-27.4%)
	D	-610 (-25.8%)	-475 (-21.3%)
	C	-998 (-38.2%)	-83 (-4.9%)
	All	-899 (-22.6%)	237 (8.4%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.7.1.9 Feather River at Confluence with Sacramento River**

2 **Table 17. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at the Confluence with**
 3 **the Sacramento River, Year-Round**

Alternative 7: Upstream—Feather River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL T
JAN	W	23,533	26,106	27,253
	AN	12,430	11,953	12,984
	BN	6,499	5,575	5,628
	D	4,621	4,412	4,370
	C	3,646	3,837	3,440
	All	11,938	12,509	12,965
FEB	W	27,039	31,065	32,825
	AN	14,818	14,599	16,300
	BN	9,153	7,892	8,097
	D	4,402	4,436	4,347
	C	3,237	3,096	3,290
	All	13,744	14,761	15,611
MAR	W	24,172	26,784	26,562
	AN	19,990	21,490	22,487
	BN	8,136	6,882	7,460
	D	5,073	4,940	4,963
	C	2,933	2,756	2,689
	All	13,521	14,300	14,470
APR	W	15,897	15,852	15,854
	AN	9,832	9,585	9,581
	BN	5,401	5,189	5,143
	D	4,152	4,137	4,158
	C	3,298	3,185	3,089
	All	8,796	8,689	8,672
MAY	W	14,387	10,385	10,538
	AN	8,068	6,884	7,193
	BN	4,704	4,509	4,176
	D	3,652	3,767	3,178
	C	2,389	2,321	2,611
	All	7,697	6,237	6,187
JUN	W	10,222	7,199	7,587
	AN	6,391	5,598	6,913
	BN	4,495	4,342	4,290
	D	3,853	3,367	2,720
	C	2,782	2,522	3,776
	All	6,197	4,951	5,299
JUL	W	8,177	8,734	7,940
	AN	9,322	9,223	8,639
	BN	9,380	8,725	8,292
	D	8,290	7,674	4,866
	C	6,450	4,891	3,015
	All	8,322	8,009	6,707

Alternative 7: Upstream—Feather River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LLТ
AUG	W	4,923	7,222	5,899
	AN	7,080	8,089	7,007
	BN	7,236	7,570	7,156
	D	7,711	5,487	3,696
	C	2,841	2,340	4,067
	All	5,941	6,313	5,524
SEP	W	4,351	10,329	8,954
	AN	4,194	8,773	6,593
	BN	4,252	4,786	3,964
	D	4,179	2,848	2,787
	C	2,054	1,964	2,265
	All	3,937	6,289	5,424
OCT	W	4,176	3,746	3,921
	AN	2,630	2,988	3,079
	BN	3,754	3,437	3,767
	D	3,033	2,987	3,348
	C	2,938	2,566	3,306
	All	3,446	3,243	3,556
NOV	W	4,697	3,825	3,860
	AN	3,065	3,186	2,938
	BN	2,687	2,455	2,458
	D	2,342	2,125	2,226
	C	2,084	2,107	2,105
	All	3,216	2,873	2,870
DEC	W	12,409	10,246	11,822
	AN	5,193	6,000	5,667
	BN	3,079	3,249	2,673
	D	2,838	2,811	2,329
	C	2,975	2,054	1,967
	All	6,279	5,599	5,833

1 **Table 18. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Feather River at**
 2 **the Confluence with the Sacramento River, Year-Round**

Alternative 7: Upstream—Feather River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	3,720 (15.8%)	1,147 (4.4%)
	AN	555 (4.5%)	1,031 (8.6%)
	BN	-871 (-13.4%)	53 (1%)
	D	-251 (-5.4%)	-42 (-0.9%)
	C	-206 (-5.6%)	-396 (-10.3%)
	All	1,027 (8.6%)	457 (3.7%)
FEB	W	5,786 (21.4%)	1,760 (5.7%)
	AN	1,482 (10%)	1,701 (11.6%)
	BN	-1,055 (-11.5%)	205 (2.6%)
	D	-55 (-1.3%)	-90 (-2%)
	C	53 (1.6%)	194 (6.3%)
	All	1,867 (13.6%)	851 (5.8%)
MAR	W	2,390 (9.9%)	-221 (-0.8%)
	AN	2,496 (12.5%)	997 (4.6%)
	BN	-676 (-8.3%)	578 (8.4%)
	D	-109 (-2.2%)	23 (0.5%)
	C	-244 (-8.3%)	-67 (-2.4%)
	All	948 (7%)	170 (1.2%)
APR	W	-43 (-0.3%)	3 (0%)
	AN	-252 (-2.6%)	-4 (0%)
	BN	-258 (-4.8%)	-46 (-0.9%)
	D	7 (0.2%)	22 (0.5%)
	C	-209 (-6.3%)	-96 (-3%)
	All	-124 (-1.4%)	-17 (-0.2%)
MAY	W	-3,848 (-26.7%)	153 (1.5%)
	AN	-875 (-10.9%)	309 (4.5%)
	BN	-528 (-11.2%)	-332 (-7.4%)
	D	-474 (-13%)	-589 (-15.6%)
	C	223 (9.3%)	290 (12.5%)
	All	-1,510 (-19.6%)	-50 (-0.8%)
JUN	W	-2,635 (-25.8%)	388 (5.4%)
	AN	522 (8.2%)	1,315 (23.5%)
	BN	-206 (-4.6%)	-52 (-1.2%)
	D	-1,133 (-29.4%)	-647 (-19.2%)
	C	994 (35.7%)	1,254 (49.7%)
	All	-897 (-14.5%)	348 (7%)
JUL	W	-237 (-2.9%)	-794 (-9.1%)
	AN	-683 (-7.3%)	-584 (-6.3%)
	BN	-1,088 (-11.6%)	-433 (-5%)
	D	-3,424 (-41.3%)	-2,808 (-36.6%)
	C	-3,435 (-53.3%)	-1,876 (-38.4%)
	All	-1,615 (-19.4%)	-1,302 (-16.3%)

Alternative 7: Upstream—Feather River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
AUG	W	976 (19.8%)	-1,323 (-18.3%)
	AN	-73 (-1%)	-1,082 (-13.4%)
	BN	-79 (-1.1%)	-413 (-5.5%)
	D	-4,016 (-52.1%)	-1,792 (-32.6%)
	C	1,226 (43.2%)	1,727 (73.8%)
	All	-417 (-7%)	-789 (-12.5%)
SEP	W	4,602 (105.8%)	-1,375 (-13.3%)
	AN	2,399 (57.2%)	-2,180 (-24.9%)
	BN	-288 (-6.8%)	-822 (-17.2%)
	D	-1,392 (-33.3%)	-61 (-2.1%)
	C	211 (10.3%)	301 (15.3%)
	All	1,487 (37.8%)	-865 (-13.8%)
OCT	W	-255 (-6.1%)	175 (4.7%)
	AN	449 (17.1%)	91 (3%)
	BN	13 (0.4%)	330 (9.6%)
	D	315 (10.4%)	361 (12.1%)
	C	367 (12.5%)	740 (28.8%)
	All	110 (3.2%)	313 (9.6%)
NOV	W	-837 (-17.8%)	35 (0.9%)
	AN	-126 (-4.1%)	-248 (-7.8%)
	BN	-230 (-8.5%)	3 (0.1%)
	D	-117 (-5%)	101 (4.8%)
	C	21 (1%)	-2 (-0.1%)
	All	-346 (-10.7%)	-3 (-0.1%)
DEC	W	-587 (-4.7%)	1,576 (15.4%)
	AN	474 (9.1%)	-333 (-5.6%)
	BN	-406 (-13.2%)	-576 (-17.7%)
	D	-508 (-17.9%)	-482 (-17.1%)
	C	-1,008 (-33.9%)	-87 (-4.2%)
	All	-445 (-7.1%)	234 (4.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.7.1.10 American River at Nimbus Dam**2 **Table 19. Mean Monthly Flows (cfs) for Model Scenarios in the American River at Nimbus Dam,**
3 **Year-Round**

Alternative 7: Upstream—American River at Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	8,806	11,036	11,133
	AN	4,833	5,805	5,826
	BN	2,392	2,073	2,060
	D	1,723	1,506	1,444
	C	1,474	1,095	1,049
	All	4,502	5,194	5,205
FEB	W	9,294	11,102	11,102
	AN	6,469	8,153	8,251
	BN	4,360	4,961	5,039
	D	1,852	1,844	1,922
	C	1,185	1,007	939
	All	5,218	6,112	6,147
MAR	W	6,089	6,992	7,000
	AN	5,454	5,790	5,857
	BN	2,429	2,794	2,802
	D	2,191	2,314	2,187
	C	939	938	787
	All	3,762	4,187	4,150
APR	W	5,300	5,508	5,518
	AN	3,546	3,298	3,310
	BN	3,126	2,970	2,861
	D	1,837	1,888	1,641
	C	1,156	1,255	1,158
	All	3,305	3,334	3,252
MAY	W	6,157	4,592	4,660
	AN	3,885	2,521	2,713
	BN	2,930	1,969	2,122
	D	1,790	1,686	1,798
	C	1,182	992	1,147
	All	3,587	2,676	2,799
JUN	W	6,003	3,694	4,342
	AN	3,346	3,022	3,543
	BN	2,863	2,883	3,374
	D	2,506	2,596	2,558
	C	1,824	1,025	1,139
	All	3,699	2,825	3,199
JUL	W	4,108	3,860	3,704
	AN	4,638	4,927	4,623
	BN	4,744	4,328	4,433
	D	3,577	3,143	3,352
	C	1,784	2,022	2,311
	All	3,838	3,670	3,682

Alternative 7: Upstream—American River at Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
AUG	W	3,520	2,132	2,124
	AN	2,542	1,944	1,900
	BN	2,495	2,324	2,277
	D	2,613	1,620	1,663
	C	1,500	1,100	655
	All	2,707	1,874	1,801
SEP	W	4,025	3,622	3,100
	AN	2,764	2,044	1,870
	BN	2,370	1,605	1,397
	D	1,856	1,182	1,330
	C	1,164	594	706
	All	2,663	2,068	1,890
OCT	W	1,723	1,634	1,663
	AN	1,706	1,732	1,524
	BN	1,602	1,767	1,572
	D	1,468	1,258	1,340
	C	1,461	1,655	1,573
	All	1,605	1,592	1,543
NOV	W	3,527	2,612	2,608
	AN	3,181	2,554	2,485
	BN	2,067	1,716	1,686
	D	2,176	1,424	1,506
	C	1,994	1,608	1,524
	All	2,706	2,043	2,032
DEC	W	6,302	6,171	6,187
	AN	3,137	2,933	2,951
	BN	2,676	2,527	2,404
	D	1,741	1,351	1,359
	C	1,524	1,251	1,194
	All	3,519	3,297	3,277

1 **Table 20. Differences^a (Percent Differences) between Pairs of Model Scenarios in the American River**
 2 **at Nimbus Dam, Year-Round**

Alternative 7: Upstream—American River at Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A7_LLТ	NAA vs. A7_LLТ
JAN	W	2,326 (26.4%)	96 (0.9%)
	AN	993 (20.5%)	21 (0.4%)
	BN	-332 (-13.9%)	-13 (-0.6%)
	D	-279 (-16.2%)	-62 (-4.1%)
	C	-425 (-28.9%)	-46 (-4.2%)
	All	703 (15.6%)	11 (0.2%)
FEB	W	1,809 (19.5%)	1 (0%)
	AN	1,782 (27.5%)	98 (1.2%)
	BN	679 (15.6%)	77 (1.6%)
	D	70 (3.8%)	78 (4.2%)
	C	-246 (-20.8%)	-68 (-6.7%)
	All	930 (17.8%)	35 (0.6%)
MAR	W	911 (15%)	7 (0.1%)
	AN	404 (7.4%)	67 (1.2%)
	BN	373 (15.4%)	8 (0.3%)
	D	-5 (-0.2%)	-128 (-5.5%)
	C	-152 (-16.2%)	-151 (-16.1%)
	All	388 (10.3%)	-37 (-0.9%)
APR	W	218 (4.1%)	10 (0.2%)
	AN	-235 (-6.6%)	12 (0.4%)
	BN	-265 (-8.5%)	-108 (-3.7%)
	D	-196 (-10.7%)	-247 (-13.1%)
	C	3 (0.2%)	-97 (-7.7%)
	All	-53 (-1.6%)	-82 (-2.5%)
MAY	W	-1,497 (-24.3%)	68 (1.5%)
	AN	-1,172 (-30.2%)	192 (7.6%)
	BN	-808 (-27.6%)	153 (7.8%)
	D	8 (0.5%)	112 (6.6%)
	C	-35 (-3%)	155 (15.6%)
	All	-788 (-22%)	123 (4.6%)
JUN	W	-1,661 (-27.7%)	648 (17.6%)
	AN	197 (5.9%)	520 (17.2%)
	BN	510 (17.8%)	491 (17%)
	D	52 (2.1%)	-38 (-1.5%)
	C	-685 (-37.5%)	115 (11.2%)
	All	-499 (-13.5%)	374 (13.2%)
JUL	W	-405 (-9.9%)	-157 (-4.1%)
	AN	-15 (-0.3%)	-304 (-6.2%)
	BN	-311 (-6.6%)	105 (2.4%)
	D	-225 (-6.3%)	209 (6.6%)
	C	527 (29.5%)	289 (14.3%)
	All	-156 (-4.1%)	12 (0.3%)

Alternative 7: Upstream—American River at Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
AUG	W	-1,396 (-39.7%)	-8 (-0.4%)
	AN	-641 (-25.2%)	-44 (-2.3%)
	BN	-218 (-8.7%)	-47 (-2%)
	D	-949 (-36.3%)	44 (2.7%)
	C	-845 (-56.3%)	-445 (-40.5%)
	All	-906 (-33.5%)	-73 (-3.9%)
SEP	W	-924 (-23%)	-522 (-14.4%)
	AN	-894 (-32.3%)	-173 (-8.5%)
	BN	-974 (-41.1%)	-208 (-13%)
	D	-526 (-28.4%)	148 (12.5%)
	C	-459 (-39.4%)	112 (18.9%)
	All	-773 (-29%)	-178 (-8.6%)
OCT	W	-59 (-3.4%)	29 (1.8%)
	AN	-182 (-10.6%)	-207 (-12%)
	BN	-30 (-1.9%)	-195 (-11%)
	D	-128 (-8.8%)	81 (6.5%)
	C	113 (7.7%)	-81 (-4.9%)
	All	-62 (-3.9%)	-49 (-3.1%)
NOV	W	-919 (-26.1%)	-4 (-0.2%)
	AN	-695 (-21.9%)	-69 (-2.7%)
	BN	-381 (-18.4%)	-30 (-1.8%)
	D	-670 (-30.8%)	82 (5.8%)
	C	-471 (-23.6%)	-84 (-5.2%)
	All	-674 (-24.9%)	-11 (-0.5%)
DEC	W	-115 (-1.8%)	16 (0.3%)
	AN	-186 (-5.9%)	18 (0.6%)
	BN	-271 (-10.1%)	-122 (-4.8%)
	D	-382 (-21.9%)	8 (0.6%)
	C	-330 (-21.7%)	-57 (-4.6%)
	All	-242 (-6.9%)	-20 (-0.6%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.7.1.11 American River at Confluence with Sacramento River**

2 **Table 21. Mean Monthly Flows (cfs) for Model Scenarios in the American River at the Confluence with**
 3 **the Sacramento River, Year-Round**

Alternative 7: Upstream—American River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	8,748	10,960	11,056
	AN	4,806	5,760	5,781
	BN	2,326	1,988	1,977
	D	1,654	1,424	1,362
	C	1,403	1,008	962
	All	4,443	5,118	5,129
FEB	W	9,183	10,947	10,947
	AN	6,422	8,073	8,171
	BN	4,309	4,888	4,966
	D	1,781	1,756	1,835
	C	1,119	921	854
	All	5,142	6,007	6,042
MAR	W	5,979	6,837	6,844
	AN	5,364	5,661	5,727
	BN	2,340	2,672	2,680
	D	2,121	2,224	2,096
	C	864	836	695
	All	3,672	4,063	4,027
APR	W	5,156	5,300	5,309
	AN	3,383	3,079	3,090
	BN	2,984	2,778	2,669
	D	1,672	1,677	1,430
	C	996	1,059	964
	All	3,152	3,128	3,047
MAY	W	5,959	4,332	4,400
	AN	3,700	2,285	2,477
	BN	2,733	1,726	1,880
	D	1,605	1,454	1,569
	C	1,014	790	946
	All	3,398	2,438	2,561
JUN	W	5,743	3,388	4,036
	AN	3,103	2,736	3,254
	BN	2,631	2,603	3,093
	D	2,282	2,320	2,281
	C	1,621	793	906
	All	3,462	2,545	2,917
JUL	W	3,844	3,560	3,398
	AN	4,399	4,635	4,326
	BN	4,509	4,038	4,139
	D	3,347	2,858	3,068
	C	1,568	1,784	2,071
	All	3,597	3,385	3,394

Alternative 7: Upstream—American River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL7
AUG	W	3,295	1,858	1,851
	AN	2,313	1,663	1,622
	BN	2,265	2,048	2,000
	D	2,395	1,357	1,401
	C	1,314	899	448
	All	2,488	1,612	1,539
SEP	W	3,846	3,415	2,893
	AN	2,594	1,838	1,665
	BN	2,205	1,402	1,194
	D	1,691	987	1,135
	C	1,011	427	544
	All	2,495	1,870	1,693
OCT	W	1,607	1,499	1,529
	AN	1,597	1,613	1,400
	BN	1,472	1,617	1,423
	D	1,344	1,114	1,198
	C	1,342	1,517	1,442
	All	1,486	1,454	1,407
NOV	W	3,472	2,540	2,535
	AN	3,100	2,455	2,388
	BN	1,990	1,618	1,590
	D	2,094	1,326	1,407
	C	1,897	1,489	1,406
	All	2,632	1,950	1,939
DEC	W	6,255	6,115	6,131
	AN	3,072	2,856	2,874
	BN	2,609	2,445	2,323
	D	1,675	1,275	1,282
	C	1,443	1,158	1,101
	All	3,457	3,224	3,204

1 **Table 22. Differences^a (Percent Differences) between Pairs of Model Scenarios in the American River**
 2 **at the Confluence with the Sacramento River, Year-Round**

Alternative 7: Upstream—American River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	2,308 (26.4%)	96 (0.9%)
	AN	975 (20.3%)	21 (0.4%)
	BN	-350 (-15%)	-12 (-0.6%)
	D	-292 (-17.7%)	-62 (-4.4%)
	C	-441 (-31.4%)	-45 (-4.5%)
	All	686 (15.4%)	11 (0.2%)
FEB	W	1,764 (19.2%)	0 (0%)
	AN	1,748 (27.2%)	98 (1.2%)
	BN	657 (15.2%)	77 (1.6%)
	D	54 (3.1%)	79 (4.5%)
	C	-265 (-23.7%)	-67 (-7.3%)
	All	900 (17.5%)	35 (0.6%)
MAR	W	865 (14.5%)	7 (0.1%)
	AN	363 (6.8%)	66 (1.2%)
	BN	340 (14.5%)	7 (0.3%)
	D	-25 (-1.2%)	-128 (-5.8%)
	C	-169 (-19.6%)	-141 (-16.9%)
	All	355 (9.7%)	-36 (-0.9%)
APR	W	154 (3%)	10 (0.2%)
	AN	-292 (-8.6%)	11 (0.4%)
	BN	-314 (-10.5%)	-109 (-3.9%)
	D	-242 (-14.5%)	-246 (-14.7%)
	C	-31 (-3.1%)	-95 (-9%)
	All	-105 (-3.3%)	-82 (-2.6%)
MAY	W	-1,559 (-26.2%)	68 (1.6%)
	AN	-1,222 (-33%)	192 (8.4%)
	BN	-854 (-31.2%)	154 (8.9%)
	D	-36 (-2.3%)	114 (7.9%)
	C	-68 (-6.7%)	156 (19.7%)
	All	-837 (-24.6%)	124 (5.1%)
JUN	W	-1,706 (-29.7%)	648 (19.1%)
	AN	151 (4.9%)	519 (19%)
	BN	462 (17.5%)	490 (18.8%)
	D	0 (0%)	-39 (-1.7%)
	C	-716 (-44.1%)	113 (14.2%)
	All	-545 (-15.7%)	373 (14.7%)
JUL	W	-446 (-11.6%)	-162 (-4.6%)
	AN	-72 (-1.6%)	-309 (-6.7%)
	BN	-370 (-8.2%)	101 (2.5%)
	D	-279 (-8.3%)	210 (7.3%)
	C	503 (32.1%)	288 (16.1%)
	All	-203 (-5.6%)	9 (0.3%)

Alternative 7: Upstream—American River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1T	NAA vs. A7_LL1T
AUG	W	-1,443 (-43.8%)	-6 (-0.3%)
	AN	-691 (-29.9%)	-41 (-2.5%)
	BN	-265 (-11.7%)	-48 (-2.3%)
	D	-994 (-41.5%)	44 (3.3%)
	C	-866 (-65.9%)	-452 (-50.2%)
	All	-949 (-38.1%)	-73 (-4.5%)
SEP	W	-953 (-24.8%)	-522 (-15.3%)
	AN	-929 (-35.8%)	-173 (-9.4%)
	BN	-1,011 (-45.9%)	-208 (-14.8%)
	D	-556 (-32.9%)	147 (14.9%)
	C	-467 (-46.2%)	117 (27.4%)
	All	-801 (-32.1%)	-177 (-9.5%)
OCT	W	-78 (-4.9%)	31 (2%)
	AN	-196 (-12.3%)	-212 (-13.2%)
	BN	-49 (-3.4%)	-194 (-12%)
	D	-145 (-10.8%)	84 (7.6%)
	C	100 (7.5%)	-75 (-4.9%)
	All	-79 (-5.3%)	-47 (-3.2%)
NOV	W	-938 (-27%)	-5 (-0.2%)
	AN	-712 (-23%)	-67 (-2.7%)
	BN	-400 (-20.1%)	-28 (-1.8%)
	D	-687 (-32.8%)	81 (6.1%)
	C	-491 (-25.9%)	-83 (-5.6%)
	All	-692 (-26.3%)	-11 (-0.5%)
DEC	W	-124 (-2%)	16 (0.3%)
	AN	-197 (-6.4%)	18 (0.6%)
	BN	-286 (-11%)	-122 (-5%)
	D	-393 (-23.5%)	7 (0.5%)
	C	-342 (-23.7%)	-57 (-4.9%)
	All	-253 (-7.3%)	-20 (-0.6%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.7.1.12 Stanislaus River at Confluence with the San Joaquin River**

2 **Table 23. Mean Monthly Flows (cfs) for Model Scenarios in the Stanislaus River at the Confluence with**
 3 **the San Joaquin River, Year-Round**

Alternative 7: Upstream—Stanislaus River at Confluence with the San Joaquin River				
Month	WYT^a	EXISTING CONDITIONS	NAA	A7_LL^T
JAN	W	956	885	885
	AN	843	963	962
	BN	416	369	369
	D	403	366	366
	C	314	265	265
	All	635	615	615
FEB	W	1,285	1,236	1,210
	AN	917	858	858
	BN	551	438	436
	D	562	359	359
	C	490	348	347
	All	827	723	715
MAR	W	2,063	2,217	2,214
	AN	1,295	956	956
	BN	732	548	548
	D	559	390	400
	C	541	444	450
	All	1,167	1,071	1,073
APR	W	2,054	1,965	1,965
	AN	1,719	1,535	1,518
	BN	1,494	1,211	1,211
	D	1,438	1,199	1,198
	C	823	670	667
	All	1,562	1,387	1,383
MAY	W	1,653	1,613	1,595
	AN	1,389	1,243	1,229
	BN	1,238	898	902
	D	1,140	916	925
	C	715	627	631
	All	1,271	1,125	1,119
JUN	W	1,608	1,763	1,781
	AN	1,134	985	974
	BN	663	568	607
	D	447	364	455
	C	332	296	354
	All	932	914	949
JUL	W	1,064	1,080	1,075
	AN	489	454	454
	BN	450	425	425
	D	398	359	351
	C	337	310	305
	All	607	590	586

Alternative 7: Upstream—Stanislaus River at Confluence with the San Joaquin River				
Month	WYT^a	EXISTING CONDITIONS	NAA	A7_LLТ
AUG	W	930	717	717
	AN	476	454	454
	BN	423	418	418
	D	387	382	382
	C	341	338	330
	All	560	491	490
SEP	W	1,040	863	863
	AN	502	474	474
	BN	417	407	407
	D	395	390	391
	C	324	317	316
	All	595	533	533
OCT	W	897	845	847
	AN	873	822	826
	BN	903	844	844
	D	984	925	925
	C	689	612	615
	All	867	808	810
NOV	W	426	408	409
	AN	580	524	523
	BN	341	334	334
	D	345	321	321
	C	325	308	309
	All	410	386	386
DEC	W	512	429	418
	AN	722	697	696
	BN	331	353	353
	D	317	294	294
	C	289	272	272
	All	450	417	414

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 24. Differences^a (Percent Differences) between Pairs of Model Scenarios in the American River**
 2 **at the Confluence with the Sacramento River, Year-Round**

Alternative 7: Upstream—Stanislaus River at Confluence with the San Joaquin River			
Month	WYT^b	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	-71 (-7.5%)	0 (0%)
	AN	120 (14.2%)	0 (-0.1%)
	BN	-47 (-11.3%)	0 (0%)
	D	-37 (-9.1%)	0 (0%)
	C	-49 (-15.6%)	0 (-0.1%)
	All	-20 (-3.2%)	0 (0%)
FEB	W	-74 (-5.8%)	-26 (-2.1%)
	AN	-59 (-6.5%)	0 (0%)
	BN	-115 (-20.9%)	-2 (-0.4%)
	D	-203 (-36.1%)	0 (0%)
	C	-142 (-29.1%)	0 (-0.1%)
	All	-112 (-13.5%)	-8 (-1.1%)
MAR	W	151 (7.3%)	-2 (-0.1%)
	AN	-339 (-26.2%)	0 (0%)
	BN	-184 (-25.2%)	0 (0%)
	D	-159 (-28.4%)	10 (2.5%)
	C	-91 (-16.8%)	6 (1.4%)
	All	-94 (-8.1%)	2 (0.2%)
APR	W	-89 (-4.3%)	0 (0%)
	AN	-201 (-11.7%)	-17 (-1.1%)
	BN	-283 (-18.9%)	0 (0%)
	D	-241 (-16.7%)	-1 (-0.1%)
	C	-156 (-19%)	-3 (-0.4%)
	All	-179 (-11.4%)	-4 (-0.3%)
MAY	W	-58 (-3.5%)	-18 (-1.1%)
	AN	-160 (-11.5%)	-14 (-1.1%)
	BN	-336 (-27.2%)	4 (0.4%)
	D	-215 (-18.9%)	9 (1%)
	C	-84 (-11.8%)	4 (0.6%)
	All	-152 (-12%)	-5 (-0.5%)
JUN	W	174 (10.8%)	19 (1.1%)
	AN	-159 (-14.1%)	-10 (-1%)
	BN	-56 (-8.4%)	39 (6.9%)
	D	8 (1.9%)	91 (24.9%)
	C	23 (6.8%)	59 (19.9%)
	All	17 (1.8%)	35 (3.9%)
JUL	W	11 (1%)	-5 (-0.5%)
	AN	-35 (-7.2%)	0 (0%)
	BN	-25 (-5.6%)	0 (-0.1%)
	D	-47 (-11.9%)	-9 (-2.4%)
	C	-32 (-9.4%)	-5 (-1.7%)
	All	-21 (-3.5%)	-4 (-0.7%)

Alternative 7: Upstream—Stanislaus River at Confluence with the San Joaquin River			
Month	WYT^b	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
AUG	W	-212 (-22.8%)	0 (0%)
	AN	-22 (-4.6%)	0 (0%)
	BN	-4 (-1%)	0 (0%)
	D	-5 (-1.2%)	0 (0%)
	C	-11 (-3.2%)	-8 (-2.3%)
	All	-70 (-12.5%)	-2 (-0.3%)
SEP	W	-177 (-17%)	0 (0%)
	AN	-28 (-5.6%)	0 (0%)
	BN	-10 (-2.4%)	0 (0%)
	D	-5 (-1.2%)	1 (0.1%)
	C	-9 (-2.6%)	-1 (-0.3%)
	All	-61 (-10.3%)	0 (0%)
OCT	W	-51 (-5.6%)	1 (0.2%)
	AN	-47 (-5.4%)	4 (0.5%)
	BN	-59 (-6.5%)	0 (0%)
	D	-59 (-6%)	0 (0%)
	C	-74 (-10.7%)	3 (0.5%)
	All	-57 (-6.6%)	2 (0.2%)
NOV	W	-17 (-4%)	1 (0.3%)
	AN	-57 (-9.8%)	-1 (-0.2%)
	BN	-8 (-2.3%)	0 (0%)
	D	-23 (-6.7%)	0 (0%)
	C	-16 (-4.8%)	1 (0.3%)
	All	-24 (-5.9%)	0 (0.1%)
DEC	W	-95 (-18.4%)	-11 (-2.6%)
	AN	-26 (-3.6%)	-1 (-0.1%)
	BN	23 (6.8%)	0 (0%)
	D	-23 (-7.3%)	0 (0%)
	C	-17 (-5.8%)	0 (-0.2%)
	All	-36 (-8%)	-4 (-0.8%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.7.2 In Delta**

2 **11C.7.2.1 OMR Flow (Old and Middle Rivers)**

3 **Table 25. Mean Monthly Flows (cfs) for Model Scenarios in the Old and Middle Rivers, Year-Round**

Alternative 7: In Delta—OMR Flow (Old and Middle Rivers)				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	-1,820	-1,606	3,634
	AN	-3,553	-3,446	1,221
	BN	-4,240	-3,803	960
	D	-4,664	-4,675	968
	C	-4,130	-3,684	851
	All	-3,449	-3,228	1,832
FEB	W	-2,365	-2,293	3,586
	AN	-3,274	-3,147	1,546
	BN	-3,437	-3,290	1,046
	D	-3,986	-3,502	972
	C	-3,191	-3,047	891
	All	-3,158	-2,964	1,886
MAR	W	-1,600	-1,454	4,496
	AN	-4,251	-3,815	1,772
	BN	-4,147	-3,834	909
	D	-2,852	-2,614	842
	C	-2,010	-1,636	534
	All	-2,758	-2,487	2,103
APR	W	2,431	2,415	5,117
	AN	1,058	787	2,646
	BN	677	214	2,046
	D	-268	-615	1,034
	C	-950	-845	461
	All	843	659	2,654
MAY	W	1,651	1,555	4,664
	AN	509	396	2,118
	BN	272	-237	1,561
	D	-647	-1,010	661
	C	-1,020	-911	309
	All	353	155	2,246
JUN	W	-4,164	-4,369	1,034
	AN	-4,761	-4,454	235
	BN	-4,154	-3,420	-129
	D	-3,301	-2,592	-494
	C	-2,250	-2,143	-594
	All	-3,780	-3,504	145

Alternative 7: In Delta—OMR Flow (Old and Middle Rivers)				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JUL	W	-8,959	-8,699	-9,140
	AN	-9,919	-7,962	-9,622
	BN	-10,853	-9,942	-10,419
	D	-10,891	-9,505	-7,584
	C	-8,058	-5,234	-4,447
	All	-9,715	-8,473	-8,401
AUG	W	-10,062	-10,518	-7,613
	AN	-10,348	-10,985	-8,020
	BN	-10,044	-9,374	-8,610
	D	-10,122	-7,259	-5,477
	C	-4,384	-3,192	-4,108
	All	-9,283	-8,604	-6,861
SEP	W	-9,317	-7,580	251
	AN	-9,163	-9,002	-818
	BN	-8,575	-8,392	-5,280
	D	-8,081	-5,165	-4,374
	C	-4,807	-3,966	-2,807
	All	-8,236	-6,868	-2,312
OCT	W	-8,347	-5,049	336
	AN	-7,643	-3,648	119
	BN	-7,804	-4,793	149
	D	-6,961	-4,103	158
	C	-6,440	-3,920	15
	All	-7,568	-4,427	186
NOV	W	-8,902	-6,527	517
	AN	-7,264	-6,003	244
	BN	-7,997	-5,542	303
	D	-7,136	-5,007	309
	C	-5,294	-4,389	227
	All	-7,592	-5,636	352
DEC	W	-5,542	-5,591	1,549
	AN	-6,987	-7,050	857
	BN	-7,304	-7,040	901
	D	-7,214	-7,006	872
	C	-6,166	-4,173	722
	All	-6,513	-6,155	1,067

1 **Table 26. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Old and Middle**
 2 **Rivers, Year-Round**

Alternative 7: In Delta—OMR Flow (Old and Middle Rivers)			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	5,453 (299.7%)	5,240 (326.3%)
	AN	4,774 (134.4%)	4,668 (135.4%)
	BN	5,200 (122.7%)	4,763 (125.3%)
	D	5,632 (120.8%)	5,643 (120.7%)
	C	4,981 (120.6%)	4,536 (123.1%)
	All	5,281 (153.1%)	5,060 (156.8%)
FEB	W	5,951 (251.6%)	5,879 (256.4%)
	AN	4,820 (147.2%)	4,692 (149.1%)
	BN	4,483 (130.4%)	4,336 (131.8%)
	D	4,957 (124.4%)	4,474 (127.7%)
	C	4,082 (127.9%)	3,938 (129.2%)
	All	5,043 (159.7%)	4,850 (163.6%)
MAR	W	6,096 (381%)	5,950 (409.3%)
	AN	6,023 (141.7%)	5,587 (146.5%)
	BN	5,056 (121.9%)	4,744 (123.7%)
	D	3,694 (129.5%)	3,456 (132.2%)
	C	2,545 (126.6%)	2,170 (132.6%)
	All	4,861 (176.3%)	4,590 (184.6%)
APR	W	2,686 (110.5%)	2,702 (111.9%)
	AN	1,588 (150.1%)	1,859 (236.2%)
	BN	1,370 (202.3%)	1,833 (856.5%)
	D	1,302 (486%)	1,649 (268.1%)
	C	1,412 (148.5%)	1,307 (154.6%)
	All	1,810 (214.6%)	1,995 (302.8%)
MAY	W	3,013 (182.5%)	3,109 (199.9%)
	AN	1,609 (315.8%)	1,723 (435.2%)
	BN	1,289 (474.6%)	1,799 (757.4%)
	D	1,308 (202.2%)	1,671 (165.5%)
	C	1,329 (130.3%)	1,221 (133.9%)
	All	1,893 (535.8%)	2,090 (1,344.8%)
JUN	W	5,198 (124.8%)	5,403 (123.7%)
	AN	4,996 (104.9%)	4,689 (105.3%)
	BN	4,026 (96.9%)	3,291 (96.2%)
	D	2,806 (85%)	2,097 (80.9%)
	C	1,655 (73.6%)	1,548 (72.3%)
	All	3,925 (103.8%)	3,648 (104.1%)
JUL	W	-181 (-2%)	-441 (-5.1%)
	AN	297 (3%)	-1,660 (-20.8%)
	BN	434 (4%)	-477 (-4.8%)
	D	3,307 (30.4%)	1,921 (20.2%)
	C	3,610 (44.8%)	786 (15%)
	All	1,314 (13.5%)	73 (0.9%)

Alternative 7: In Delta—OMR Flow (Old and Middle Rivers)			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
AUG	W	2,449 (24.3%)	2,905 (27.6%)
	AN	2,329 (22.5%)	2,965 (27%)
	BN	1,434 (14.3%)	764 (8.2%)
	D	4,645 (45.9%)	1,782 (24.5%)
	C	276 (6.3%)	-916 (-28.7%)
	All	2,422 (26.1%)	1,743 (20.3%)
SEP	W	9,568 (102.7%)	7,832 (103.3%)
	AN	8,344 (91.1%)	8,184 (90.9%)
	BN	3,295 (38.4%)	3,112 (37.1%)
	D	3,707 (45.9%)	790 (15.3%)
	C	2,000 (41.6%)	1,159 (29.2%)
	All	5,924 (71.9%)	4,555 (66.3%)
OCT	W	8,683 (104%)	5,385 (106.7%)
	AN	7,762 (101.6%)	3,768 (103.3%)
	BN	7,953 (101.9%)	4,942 (103.1%)
	D	7,118 (102.3%)	4,261 (103.8%)
	C	6,455 (100.2%)	3,935 (100.4%)
	All	7,754 (102.5%)	4,614 (104.2%)
NOV	W	9,419 (105.8%)	7,044 (107.9%)
	AN	7,508 (103.4%)	6,247 (104.1%)
	BN	8,299 (103.8%)	5,845 (105.5%)
	D	7,445 (104.3%)	5,316 (106.2%)
	C	5,521 (104.3%)	4,616 (105.2%)
	All	7,944 (104.6%)	5,988 (106.3%)
DEC	W	7,091 (127.9%)	7,140 (127.7%)
	AN	7,844 (112.3%)	7,907 (112.2%)
	BN	8,205 (112.3%)	7,942 (112.8%)
	D	8,086 (112.1%)	7,877 (112.4%)
	C	6,888 (111.7%)	4,896 (117.3%)
	All	7,580 (116.4%)	7,223 (117.3%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.7.2.2 Sacramento River Downstream of North Delta Diversion Facility**

2 **Table 27. Mean Monthly Flows (cfs) for Model Scenarios for the Sacramento River Downstream of the**
 3 **North Delta Diversion Facility, Year-Round**

Alternative 7: In Delta—Sacramento River Downstream of North Delta Diversion Facility				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	50,961	52,878	44,047
	AN	39,863	40,484	33,074
	BN	23,781	22,653	18,521
	D	17,444	17,451	14,692
	C	14,281	15,073	12,460
	All	31,971	32,595	27,017
FEB	W	57,314	59,847	49,513
	AN	45,676	47,786	39,436
	BN	31,934	31,592	25,509
	D	21,202	21,107	17,730
	C	14,708	14,291	13,611
	All	37,116	38,087	31,710
MAR	W	49,416	50,993	39,986
	AN	44,495	45,088	34,531
	BN	24,489	22,915	17,736
	D	20,656	20,650	16,744
	C	13,245	13,137	11,437
	All	32,834	33,134	26,109
APR	W	37,809	37,543	29,218
	AN	25,979	24,931	18,265
	BN	17,752	17,128	13,846
	D	12,990	12,904	11,395
	C	10,229	10,365	9,308
	All	23,169	22,826	18,164
MAY	W	31,948	24,500	18,659
	AN	21,021	18,657	15,353
	BN	14,227	12,394	10,832
	D	10,959	11,427	9,910
	C	7,749	8,011	7,810
	All	19,175	16,295	13,330
JUN	W	23,900	18,603	13,919
	AN	16,309	16,051	12,391
	BN	13,576	13,898	12,154
	D	12,222	12,656	11,054
	C	9,884	10,123	10,605
	All	16,412	14,880	12,280
JUL	W	19,876	21,425	19,462
	AN	21,574	22,727	21,352
	BN	20,953	20,513	19,692
	D	19,272	18,957	15,601
	C	15,397	13,767	11,279
	All	19,520	19,797	17,733

Alternative 7: In Delta—Sacramento River Downstream of North Delta Diversion Facility				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
AUG	W	15,816	16,064	12,756
	AN	15,877	17,491	13,856
	BN	15,643	16,232	15,330
	D	16,965	14,351	11,934
	C	10,095	8,996	10,505
	All	15,210	14,891	12,847
SEP	W	18,254	27,212	20,019
	AN	13,198	21,006	13,212
	BN	12,427	12,306	8,913
	D	12,155	8,620	8,397
	C	8,485	7,292	7,570
	All	13,751	16,763	12,754
OCT	W	13,505	13,277	9,252
	AN	11,118	11,864	8,774
	BN	11,557	12,124	8,404
	D	10,279	10,487	7,840
	C	10,073	9,964	7,662
	All	11,613	11,776	8,495
NOV	W	19,447	19,285	14,617
	AN	15,309	15,925	11,767
	BN	12,574	13,037	9,192
	D	12,868	11,914	8,936
	C	9,633	9,295	7,824
	All	14,788	14,647	11,033
DEC	W	39,708	37,022	31,205
	AN	21,663	22,629	19,328
	BN	16,678	16,692	14,563
	D	15,442	15,159	13,237
	C	11,816	10,632	9,864
	All	23,727	22,784	19,558

1 **Table 28. Differences^a (Percent Differences) between Pairs of Model Scenarios for the Sacramento**
 2 **River Downstream of the North Delta Diversion Facility, Year-Round**

Alternative 7: In Delta—Sacramento River Downstream of North Delta Diversion Facility			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	-6,914 (-13.6%)	-8,830 (-16.7%)
	AN	-6,789 (-17%)	-7,410 (-18.3%)
	BN	-5,260 (-22.1%)	-4,132 (-18.2%)
	D	-2,752 (-15.8%)	-2,759 (-15.8%)
	C	-1,821 (-12.8%)	-2,613 (-17.3%)
	All	-4,954 (-15.5%)	-5,578 (-17.1%)
FEB	W	-7,801 (-13.6%)	-10,333 (-17.3%)
	AN	-6,240 (-13.7%)	-8,350 (-17.5%)
	BN	-6,425 (-20.1%)	-6,083 (-19.3%)
	D	-3,472 (-16.4%)	-3,377 (-16%)
	C	-1,097 (-7.5%)	-679 (-4.8%)
	All	-5,406 (-14.6%)	-6,378 (-16.7%)
MAR	W	-9,430 (-19.1%)	-11,007 (-21.6%)
	AN	-9,964 (-22.4%)	-10,557 (-23.4%)
	BN	-6,753 (-27.6%)	-5,178 (-22.6%)
	D	-3,913 (-18.9%)	-3,906 (-18.9%)
	C	-1,808 (-13.7%)	-1,700 (-12.9%)
	All	-6,725 (-20.5%)	-7,025 (-21.2%)
APR	W	-8,590 (-22.7%)	-8,325 (-22.2%)
	AN	-7,714 (-29.7%)	-6,667 (-26.7%)
	BN	-3,906 (-22%)	-3,283 (-19.2%)
	D	-1,595 (-12.3%)	-1,509 (-11.7%)
	C	-921 (-9%)	-1,057 (-10.2%)
	All	-5,005 (-21.6%)	-4,662 (-20.4%)
MAY	W	-13,289 (-41.6%)	-5,842 (-23.8%)
	AN	-5,668 (-27%)	-3,304 (-17.7%)
	BN	-3,395 (-23.9%)	-1,563 (-12.6%)
	D	-1,050 (-9.6%)	-1,517 (-13.3%)
	C	61 (0.8%)	-201 (-2.5%)
	All	-5,844 (-30.5%)	-2,965 (-18.2%)
JUN	W	-9,981 (-41.8%)	-4,685 (-25.2%)
	AN	-3,918 (-24%)	-3,661 (-22.8%)
	BN	-1,421 (-10.5%)	-1,743 (-12.5%)
	D	-1,169 (-9.6%)	-1,602 (-12.7%)
	C	721 (7.3%)	482 (4.8%)
	All	-4,132 (-25.2%)	-2,600 (-17.5%)
JUL	W	-414 (-2.1%)	-1,963 (-9.2%)
	AN	-222 (-1%)	-1,375 (-6.1%)
	BN	-1,261 (-6%)	-820 (-4%)
	D	-3,670 (-19%)	-3,356 (-17.7%)
	C	-4,118 (-26.7%)	-2,488 (-18.1%)
	All	-1,787 (-9.2%)	-2,065 (-10.4%)

Alternative 7: In Delta—Sacramento River Downstream of North Delta Diversion Facility			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
AUG	W	-3,060 (-19.3%)	-3,308 (-20.6%)
	AN	-2,020 (-12.7%)	-3,634 (-20.8%)
	BN	-312 (-2%)	-902 (-5.6%)
	D	-5,031 (-29.7%)	-2,417 (-16.8%)
	C	410 (4.1%)	1,509 (16.8%)
	All	-2,364 (-15.5%)	-2,045 (-13.7%)
SEP	W	1,766 (9.7%)	-7,193 (-26.4%)
	AN	13 (0.1%)	-7,794 (-37.1%)
	BN	-3,514 (-28.3%)	-3,393 (-27.6%)
	D	-3,758 (-30.9%)	-223 (-2.6%)
	C	-915 (-10.8%)	278 (3.8%)
	All	-997 (-7.2%)	-4,009 (-23.9%)
OCT	W	-4,253 (-31.5%)	-4,025 (-30.3%)
	AN	-2,344 (-21.1%)	-3,090 (-26%)
	BN	-3,153 (-27.3%)	-3,720 (-30.7%)
	D	-2,439 (-23.7%)	-2,646 (-25.2%)
	C	-2,411 (-23.9%)	-2,302 (-23.1%)
	All	-3,118 (-26.9%)	-3,281 (-27.9%)
NOV	W	-4,830 (-24.8%)	-4,668 (-24.2%)
	AN	-3,542 (-23.1%)	-4,158 (-26.1%)
	BN	-3,382 (-26.9%)	-3,845 (-29.5%)
	D	-3,932 (-30.6%)	-2,978 (-25%)
	C	-1,809 (-18.8%)	-1,472 (-15.8%)
	All	-3,755 (-25.4%)	-3,614 (-24.7%)
DEC	W	-8,503 (-21.4%)	-5,817 (-15.7%)
	AN	-2,335 (-10.8%)	-3,301 (-14.6%)
	BN	-2,114 (-12.7%)	-2,129 (-12.8%)
	D	-2,205 (-14.3%)	-1,922 (-12.7%)
	C	-1,952 (-16.5%)	-768 (-7.2%)
	All	-4,168 (-17.6%)	-3,225 (-14.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.7.2.3 Sacramento River at Rio Vista**

2 **Table 29. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Rio Vista,**
 3 **Year-Round**

Alternative 7: In Delta—Sacramento River at Rio Vista				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	71,111	78,551	74,255
	AN	41,963	42,919	39,676
	BN	20,943	19,991	18,325
	D	14,895	14,927	13,134
	C	11,853	12,601	10,682
	All	37,268	39,721	36,926
FEB	W	80,958	89,989	84,368
	AN	52,542	55,363	52,079
	BN	30,159	29,442	27,133
	D	19,320	19,422	17,486
	C	12,247	11,956	11,873
	All	44,541	47,675	44,580
MAR	W	63,763	68,663	61,636
	AN	46,750	48,513	42,813
	BN	20,980	19,562	16,514
	D	17,656	17,679	15,466
	C	10,710	10,684	9,556
	All	36,084	37,655	33,421
APR	W	38,214	38,422	32,283
	AN	22,726	21,855	17,176
	BN	14,652	14,207	11,613
	D	10,331	10,299	9,086
	C	7,665	7,816	6,894
	All	21,333	21,211	17,736
MAY	W	26,933	20,046	14,983
	AN	17,008	14,948	12,082
	BN	10,924	9,355	7,990
	D	8,135	8,564	7,258
	C	5,305	5,554	5,415
	All	15,456	12,833	10,269
JUN	W	16,557	11,418	7,592
	AN	9,887	9,220	6,127
	BN	7,001	7,241	5,967
	D	6,020	6,335	5,195
	C	4,333	4,513	4,929
	All	9,847	8,257	6,184
JUL	W	11,125	12,181	11,421
	AN	12,128	12,927	12,825
	BN	11,686	11,357	10,821
	D	10,523	10,307	7,989
	C	7,736	6,596	5,209
	All	10,739	10,921	9,862

Alternative 7: In Delta—Sacramento River at Rio Vista				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LLТ
AUG	W	8,507	8,650	6,334
	AN	8,538	9,648	7,082
	BN	8,371	8,753	8,151
	D	9,264	7,417	5,823
	C	4,390	3,615	5,017
	All	8,052	7,806	6,449
SEP	W	10,767	21,199	11,682
	AN	6,788	12,832	6,801
	BN	6,283	6,197	3,826
	D	6,116	3,644	3,503
	C	3,588	2,996	3,162
	All	7,348	10,896	6,584
OCT	W	8,718	8,287	5,504
	AN	6,183	7,207	4,998
	BN	6,258	6,976	4,093
	D	5,312	5,727	4,250
	C	5,215	4,969	3,658
	All	6,667	6,858	4,644
NOV	W	8,717.812	8,287.041	5,504
	AN	6,183.042	7,207.265	4,998
	BN	6,258.306	6,975.914	4,093
	D	5,311.941	5,726.963	4,250
	C	5,215.113	4,969.472	3,658
	All	6,666.734	6,857.708	4,644
DEC	W	43,367	40,431	38,891
	AN	19,040	19,936	18,258
	BN	13,987	14,049	12,336
	D	11,999	11,687	10,367
	C	8,131	7,186	6,622
	All	22,749	21,753	20,354

1 **Table 30. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento**
 2 **River at Rio Vista, Year-Round**

Alternative 7: In Delta—Sacramento River at Rio Vista			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	3,144 (4.4%)	-4,296 (-5.5%)
	AN	-2,287 (-5.5%)	-3,243 (-7.6%)
	BN	-2,617 (-12.5%)	-1,665 (-8.3%)
	D	-1,760 (-11.8%)	-1,793 (-12%)
	C	-1,171 (-9.9%)	-1,919 (-15.2%)
	All	-343 (-0.9%)	-2,796 (-7%)
FEB	W	3,409 (4.2%)	-5,621 (-6.2%)
	AN	-463 (-0.9%)	-3,284 (-5.9%)
	BN	-3,026 (-10%)	-2,310 (-7.8%)
	D	-1,834 (-9.5%)	-1,936 (-10%)
	C	-374 (-3.1%)	-83 (-0.7%)
	All	39 (0.1%)	-3,094 (-6.5%)
MAR	W	-2,127 (-3.3%)	-7,027 (-10.2%)
	AN	-3,937 (-8.4%)	-5,699 (-11.7%)
	BN	-4,466 (-21.3%)	-3,048 (-15.6%)
	D	-2,190 (-12.4%)	-2,213 (-12.5%)
	C	-1,154 (-10.8%)	-1,128 (-10.6%)
	All	-2,663 (-7.4%)	-4,233 (-11.2%)
APR	W	-5,931 (-15.5%)	-6,139 (-16%)
	AN	-5,550 (-24.4%)	-4,679 (-21.4%)
	BN	-3,039 (-20.7%)	-2,594 (-18.3%)
	D	-1,245 (-12.1%)	-1,212 (-11.8%)
	C	-771 (-10.1%)	-923 (-11.8%)
	All	-3,598 (-16.9%)	-3,475 (-16.4%)
MAY	W	-11,950 (-44.4%)	-5,063 (-25.3%)
	AN	-4,926 (-29%)	-2,866 (-19.2%)
	BN	-2,934 (-26.9%)	-1,365 (-14.6%)
	D	-876 (-10.8%)	-1,305 (-15.2%)
	C	110 (2.1%)	-139 (-2.5%)
	All	-5,187 (-33.6%)	-2,565 (-20%)
JUN	W	-8,965 (-54.1%)	-3,826 (-33.5%)
	AN	-3,760 (-38%)	-3,093 (-33.6%)
	BN	-1,033 (-14.8%)	-1,274 (-17.6%)
	D	-825 (-13.7%)	-1,140 (-18%)
	C	597 (13.8%)	416 (9.2%)
	All	-3,663 (-37.2%)	-2,073 (-25.1%)
JUL	W	296 (2.7%)	-760 (-6.2%)
	AN	697 (5.7%)	-102 (-0.8%)
	BN	-865 (-7.4%)	-536 (-4.7%)
	D	-2,534 (-24.1%)	-2,318 (-22.5%)
	C	-2,527 (-32.7%)	-1,387 (-21%)
	All	-878 (-8.2%)	-1,059 (-9.7%)

Alternative 7: In Delta—Sacramento River at Rio Vista			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1T	NAA vs. A7_LL1T
AUG	W	-2,173 (-25.5%)	-2,316 (-26.8%)
	AN	-1,456 (-17.1%)	-2,566 (-26.6%)
	BN	-220 (-2.6%)	-602 (-6.9%)
	D	-3,441 (-37.1%)	-1,593 (-21.5%)
	C	626 (14.3%)	1,401 (38.8%)
	All	-1,603 (-19.9%)	-1,357 (-17.4%)
SEP	W	915 (8.5%)	-9,517 (-44.9%)
	AN	13 (0.2%)	-6,031 (-47%)
	BN	-2,458 (-39.1%)	-2,372 (-38.3%)
	D	-2,613 (-42.7%)	-141 (-3.9%)
	C	-427 (-11.9%)	166 (5.5%)
	All	-764 (-10.4%)	-4,312 (-39.6%)
OCT	W	-3,213 (-36.9%)	-2,783 (-33.6%)
	AN	-1,185 (-19.2%)	-2,209 (-30.6%)
	BN	-2,165 (-34.6%)	-2,883 (-41.3%)
	D	-1,062 (-20%)	-1,477 (-25.8%)
	C	-1,557 (-29.8%)	-1,311 (-26.4%)
	All	-2,023 (-30.3%)	-2,214 (-32.3%)
NOV	W	-3,213 (-36.9%)	-2,783 (-33.6%)
	AN	-1,185 (-19.2%)	-2,209 (-30.6%)
	BN	-2,165 (-34.6%)	-2,883 (-41.3%)
	D	-1,062 (-20%)	-1,477 (-25.8%)
	C	-1,557 (-29.8%)	-1,311 (-26.4%)
	All	-2,023 (-30.3%)	-2,214 (-32.3%)
DEC	W	-4,476 (-10.3%)	-1,541 (-3.8%)
	AN	-782 (-4.1%)	-1,678 (-8.4%)
	BN	-1,652 (-11.8%)	-1,714 (-12.2%)
	D	-1,632 (-13.6%)	-1,320 (-11.3%)
	C	-1,510 (-18.6%)	-564 (-7.8%)
	All	-2,395 (-10.5%)	-1,399 (-6.4%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.7.2.4 Delta Outflow**

2 **Table 31. Mean Monthly Flows (cfs) for Model Scenarios at the Delta Outflow, Year-Round**

Alternative 7: In Delta—Delta Outflow				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	85,900	94,620	94,893
	AN	49,448	51,100	52,008
	BN	22,968	22,301	25,257
	D	14,736	14,732	18,681
	C	11,343	12,651	15,233
	All	43,289	46,372	48,341
FEB	W	96,835	107,085	106,490
	AN	62,321	65,873	66,637
	BN	36,766	36,084	37,697
	D	20,915	21,461	24,038
	C	12,991	12,798	16,881
	All	52,594	56,338	57,700
MAR	W	78,956	84,471	82,488
	AN	54,171	56,737	55,835
	BN	24,029	22,467	24,012
	D	19,880	19,985	21,177
	C	11,911	12,215	13,406
	All	43,172	45,097	45,036
APR	W	54,394	54,562	50,278
	AN	31,975	30,576	27,043
	BN	21,928	20,641	19,625
	D	14,142	13,413	13,822
	C	9,053	9,294	9,600
	All	30,099	29,603	27,689
MAY	W	41,040	32,880	30,448
	AN	24,200	21,709	20,300
	BN	16,299	13,596	13,961
	D	10,487	10,375	10,739
	C	6,000	6,286	7,502
	All	22,517	19,121	18,464
JUN	W	23,451	15,640	16,851
	AN	11,801	10,676	12,100
	BN	8,004	8,943	10,672
	D	6,636	7,689	8,353
	C	5,322	5,632	7,699
	All	12,765	10,560	11,896
JUL	W	11,441	11,407	8,901
	AN	9,430	12,225	9,030
	BN	7,151	7,668	6,491
	D	5,024	6,448	5,318
	C	4,238	5,832	4,083
	All	7,951	8,984	7,017

Alternative 7: In Delta—Delta Outflow				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
AUG	W	5,341	4,308	4,094
	AN	4,000	4,713	4,261
	BN	4,000	5,129	5,172
	D	4,829	5,348	5,004
	C	4,077	4,433	5,028
	All	4,618	4,754	4,639
SEP	W	9,569	20,078	21,382
	AN	3,672	11,581	12,678
	BN	3,445	3,428	3,449
	D	3,350	3,021	3,749
	C	3,000	3,036	4,490
	All	5,334	9,754	10,704
OCT	W	6,487	9,520	11,283
	AN	4,021	8,982	9,951
	BN	4,477	8,054	9,712
	D	4,157	7,294	9,269
	C	4,158	6,607	8,596
	All	4,931	8,276	9,985
NOV	W	14,232	15,987	18,896
	AN	9,683	11,529	14,044
	BN	5,864	8,681	11,086
	D	6,943	8,052	10,699
	C	5,045	5,725	9,072
	All	9,193	10,844	13,615
DEC	W	48,185	45,191	50,675
	AN	18,014	19,119	25,485
	BN	11,950	12,231	18,729
	D	8,884	8,828	15,677
	C	5,531	6,560	11,033
	All	22,714	22,113	28,051

1 **Table 32. Differences^a (Percent Differences) between Pairs of Model Scenarios at the Delta Outflow,**
 2 **Year-Round**

Alternative 7: In Delta—Delta Outflow			
Month	WYT	EXISTING CONDITIONS vs. A7_LLTT	NAA vs. A7_LLTT
JAN	W	8,994 (10.5%)	274 (0.3%)
	AN	2,561 (5.2%)	908 (1.8%)
	BN	2,289 (10%)	2,956 (13.3%)
	D	3,946 (26.8%)	3,949 (26.8%)
	C	3,890 (34.3%)	2,582 (20.4%)
	All	5,053 (11.7%)	1,969 (4.2%)
FEB	W	9,655 (10%)	-595 (-0.6%)
	AN	4,315 (6.9%)	763 (1.2%)
	BN	931 (2.5%)	1,613 (4.5%)
	D	3,122 (14.9%)	2,576 (12%)
	C	3,891 (29.9%)	4,084 (31.9%)
	All	5,106 (9.7%)	1,362 (2.4%)
MAR	W	3,532 (4.5%)	-1,983 (-2.3%)
	AN	1,664 (3.1%)	-903 (-1.6%)
	BN	-17 (-0.1%)	1,545 (6.9%)
	D	1,297 (6.5%)	1,192 (6%)
	C	1,495 (12.5%)	1,191 (9.8%)
	All	1,864 (4.3%)	-61 (-0.1%)
APR	W	-4,116 (-7.6%)	-4,284 (-7.9%)
	AN	-4,932 (-15.4%)	-3,533 (-11.6%)
	BN	-2,303 (-10.5%)	-1,016 (-4.9%)
	D	-320 (-2.3%)	409 (3%)
	C	547 (6%)	306 (3.3%)
	All	-2,410 (-8%)	-1,914 (-6.5%)
MAY	W	-10,592 (-25.8%)	-2,433 (-7.4%)
	AN	-3,900 (-16.1%)	-1,409 (-6.5%)
	BN	-2,338 (-14.3%)	365 (2.7%)
	D	251 (2.4%)	363 (3.5%)
	C	1,502 (25%)	1,216 (19.3%)
	All	-4,053 (-18%)	-657 (-3.4%)
JUN	W	-6,600 (-28.1%)	1,211 (7.7%)
	AN	299 (2.5%)	1,424 (13.3%)
	BN	2,668 (33.3%)	1,729 (19.3%)
	D	1,717 (25.9%)	664 (8.6%)
	C	2,377 (44.7%)	2,067 (36.7%)
	All	-869 (-6.8%)	1,336 (12.6%)
JUL	W	-2,539 (-22.2%)	-2,505 (-22%)
	AN	-400 (-4.2%)	-3,194 (-26.1%)
	BN	-660 (-9.2%)	-1,177 (-15.4%)
	D	294 (5.9%)	-1,131 (-17.5%)
	C	-154 (-3.6%)	-1,749 (-30%)
	All	-934 (-11.8%)	-1,967 (-21.9%)

Alternative 7: In Delta—Delta Outflow			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1T	NAA vs. A7_LL1T
AUG	W	-1,247 (-23.3%)	-214 (-5%)
	AN	261 (6.5%)	-453 (-9.6%)
	BN	1,172 (29.3%)	43 (0.8%)
	D	176 (3.6%)	-343 (-6.4%)
	C	951 (23.3%)	595 (13.4%)
	All	21 (0.4%)	-115 (-2.4%)
SEP	W	11,813 (123.5%)	1,304 (6.5%)
	AN	9,006 (245.3%)	1,097 (9.5%)
	BN	4 (0.1%)	21 (0.6%)
	D	399 (11.9%)	727 (24.1%)
	C	1,490 (49.7%)	1,455 (47.9%)
	All	5,370 (100.7%)	950 (9.7%)
OCT	W	4,797 (73.9%)	1,763 (18.5%)
	AN	5,930 (147.5%)	969 (10.8%)
	BN	5,236 (117%)	1,658 (20.6%)
	D	5,112 (123%)	1,975 (27.1%)
	C	4,438 (106.7%)	1,989 (30.1%)
	All	5,054 (102.5%)	1,709 (20.6%)
NOV	W	4,663 (32.8%)	2,908 (18.2%)
	AN	4,360 (45%)	2,515 (21.8%)
	BN	5,222 (89%)	2,405 (27.7%)
	D	3,756 (54.1%)	2,646 (32.9%)
	C	4,027 (79.8%)	3,347 (58.5%)
	All	4,422 (48.1%)	2,772 (25.6%)
DEC	W	2,490 (5.2%)	5,484 (12.1%)
	AN	7,471 (41.5%)	6,366 (33.3%)
	BN	6,779 (56.7%)	6,498 (53.1%)
	D	6,793 (76.5%)	6,849 (77.6%)
	C	5,502 (99.5%)	4,473 (68.2%)
	All	5,337 (23.5%)	5,938 (26.9%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.7.2.5 San Joaquin River at Vernalis**

2 **Table 33. Mean Monthly Flows (cfs) for Model Scenarios in the San Joaquin River at Vernalis,**
 3 **Year-Round**

Alternative 7: In Delta—San Joaquin River at Vernalis				
Month	WYT^a	EXISTING CONDITIONS	NAA	A7_LL^T
JAN	W	9,089	9,681	9,754
	AN	5,447	6,011	6,015
	BN	2,326	2,220	2,256
	D	2,270	2,202	2,226
	C	1,667	1,592	1,591
	All	4,777	5,018	5,049
FEB	W	12,750	13,191	13,169
	AN	6,965	6,721	6,674
	BN	2,983	2,841	2,824
	D	2,590	2,269	2,245
	C	2,120	1,941	1,941
	All	6,388	6,361	6,339
MAR	W	14,374	15,235	15,243
	AN	6,284	6,364	6,363
	BN	2,949	2,476	2,476
	D	2,479	2,146	2,145
	C	1,813	1,688	1,687
	All	6,648	6,763	6,765
APR	W	11,955	12,457	12,452
	AN	6,014	6,042	6,024
	BN	4,490	3,922	3,921
	D	3,656	3,112	3,106
	C	1,983	1,796	1,792
	All	6,351	6,291	6,284
MAY	W	12,109	12,632	12,620
	AN	5,381	5,092	5,084
	BN	4,074	3,657	3,655
	D	3,308	2,823	2,816
	C	1,964	1,798	1,791
	All	6,148	6,069	6,061
JUN	W	11,058	6,820	6,837
	AN	2,965	2,678	2,658
	BN	2,051	1,870	1,867
	D	1,537	1,291	1,284
	C	1,020	956	951
	All	4,583	3,206	3,205
JUL	W	7,654	4,345	4,338
	AN	1,958	1,801	1,798
	BN	1,491	1,381	1,376
	D	1,295	1,100	1,083
	C	898	858	852
	All	3,239	2,184	2,177

Alternative 7: In Delta—San Joaquin River at Vernalis				
Month	WYT^a	EXISTING CONDITIONS	NAA	A7_LL^T
AUG	W	3,539	2,645	2,643
	AN	2,000	1,699	1,697
	BN	1,460	1,375	1,372
	D	1,375	1,225	1,219
	C	1,007	987	977
	All	2,072	1,710	1,706
SEP	W	3,519	3,127	3,126
	AN	2,355	2,164	2,163
	BN	1,829	1,748	1,746
	D	1,796	1,643	1,640
	C	1,402	1,378	1,367
	All	2,338	2,144	2,141
OCT	W	2,760	2,726	2,709
	AN	2,745	2,595	2,594
	BN	2,502	2,348	2,347
	D	2,945	2,790	2,791
	C	2,213	2,031	2,027
	All	2,639	2,515	2,509
NOV	W	2,534	2,411	2,418
	AN	3,182	3,193	3,194
	BN	2,150	1,997	2,029
	D	2,272	2,217	2,251
	C	1,968	1,898	1,898
	All	2,448	2,367	2,380
DEC	W	4,370	4,504	4,536
	AN	4,711	4,567	4,605
	BN	2,182	2,065	2,061
	D	2,129	2,166	2,187
	C	1,729	1,694	1,693
	All	3,219	3,211	3,230

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 34. Differences^a (Percent Differences) between Pairs of Model Scenarios in the San Joaquin**
 2 **River at Vernalis, Year-Round**

Alternative 7: In Delta—San Joaquin River at Vernalis			
Month	WYT ^b	EXISTING CONDITIONS vs. A7_LLТ	NAA vs. A7_LLТ
JAN	W	665 (7.3%)	72 (0.7%)
	AN	568 (10.4%)	4 (0.1%)
	BN	-70 (-3%)	36 (1.6%)
	D	-44 (-2%)	24 (1.1%)
	C	-76 (-4.5%)	0 (0%)
	All	273 (5.7%)	32 (0.6%)
FEB	W	419 (3.3%)	-22 (-0.2%)
	AN	-291 (-4.2%)	-47 (-0.7%)
	BN	-158 (-5.3%)	-16 (-0.6%)
	D	-345 (-13.3%)	-24 (-1.1%)
	C	-178 (-8.4%)	0 (0%)
	All	-49 (-0.8%)	-22 (-0.3%)
MAR	W	869 (6%)	8 (0.1%)
	AN	79 (1.3%)	-1 (0%)
	BN	-473 (-16%)	0 (0%)
	D	-334 (-13.5%)	-1 (0%)
	C	-126 (-7%)	-1 (0%)
	All	117 (1.8%)	2 (0%)
APR	W	497 (4.2%)	-5 (0%)
	AN	10 (0.2%)	-18 (-0.3%)
	BN	-569 (-12.7%)	-1 (0%)
	D	-550 (-15%)	-5 (-0.2%)
	C	-191 (-9.6%)	-4 (-0.2%)
	All	-67 (-1.1%)	-7 (-0.1%)
MAY	W	511 (4.2%)	-12 (-0.1%)
	AN	-297 (-5.5%)	-8 (-0.1%)
	BN	-419 (-10.3%)	-2 (0%)
	D	-492 (-14.9%)	-7 (-0.2%)
	C	-174 (-8.8%)	-7 (-0.4%)
	All	-87 (-1.4%)	-8 (-0.1%)
JUN	W	-4,221 (-38.2%)	17 (0.2%)
	AN	-307 (-10.3%)	-20 (-0.7%)
	BN	-184 (-9%)	-3 (-0.2%)
	D	-253 (-16.5%)	-7 (-0.5%)
	C	-70 (-6.8%)	-5 (-0.5%)
	All	-1,378 (-30.1%)	-1 (0%)
JUL	W	-3,316 (-43.3%)	-7 (-0.2%)
	AN	-160 (-8.2%)	-3 (-0.2%)
	BN	-115 (-7.7%)	-5 (-0.3%)
	D	-212 (-16.4%)	-17 (-1.5%)
	C	-47 (-5.2%)	-6 (-0.7%)
	All	-1,063 (-32.8%)	-7 (-0.3%)

Alternative 7: In Delta—San Joaquin River at Vernalis			
Month	WYT^b	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
AUG	W	-896 (-25.3%)	-2 (-0.1%)
	AN	-304 (-15.2%)	-2 (-0.1%)
	BN	-88 (-6%)	-3 (-0.2%)
	D	-156 (-11.3%)	-6 (-0.5%)
	C	-30 (-3%)	-10 (-1%)
	All	-366 (-17.7%)	-4 (-0.3%)
SEP	W	-393 (-11.2%)	-1 (0%)
	AN	-191 (-8.1%)	-1 (0%)
	BN	-82 (-4.5%)	-1 (-0.1%)
	D	-156 (-8.7%)	-3 (-0.2%)
	C	-36 (-2.6%)	-11 (-0.8%)
	All	-197 (-8.4%)	-3 (-0.2%)
OCT	W	-51 (-1.8%)	-17 (-0.6%)
	AN	-151 (-5.5%)	-1 (0%)
	BN	-155 (-6.2%)	-1 (0%)
	D	-154 (-5.2%)	0 (0%)
	C	-185 (-8.4%)	-3 (-0.2%)
	All	-129 (-4.9%)	-6 (-0.2%)
NOV	W	-116 (-4.6%)	6 (0.3%)
	AN	12 (0.4%)	1 (0%)
	BN	-121 (-5.6%)	33 (1.6%)
	D	-21 (-0.9%)	33 (1.5%)
	C	-71 (-3.6%)	-1 (0%)
	All	-68 (-2.8%)	12 (0.5%)
DEC	W	166 (3.8%)	32 (0.7%)
	AN	-106 (-2.2%)	38 (0.8%)
	BN	-121 (-5.6%)	-4 (-0.2%)
	D	58 (2.7%)	21 (1%)
	C	-36 (-2.1%)	0 (0%)
	All	11 (0.3%)	19 (0.6%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.7.2.6 Mokelumne River at the Delta**

2 **Table 35. Mean Monthly Flows (cfs) for Model Scenarios in the Mokelumne River at the Delta,**
 3 **Year-Round**

Alternative 7: In Delta—Mokelumne River at the Delta				
Month	WYT^a	EXISTING CONDITIONS	NAA	A7_LLT
JAN	W	3,071	3,634	3,634
	AN	1,707	1,876	1,876
	BN	597	617	617
	D	495	493	493
	C	280	281	281
	All	1,460	1,660	1,660
FEB	W	3,290	3,781	3,781
	AN	2,525	2,913	2,913
	BN	1,011	1,035	1,035
	D	695	678	678
	C	426	442	442
	All	1,809	2,033	2,033
MAR	W	3,179	3,336	3,336
	AN	1,582	1,639	1,639
	BN	1,181	1,140	1,140
	D	754	691	691
	C	595	580	580
	All	1,662	1,700	1,700
APR	W	2,819	2,694	2,694
	AN	1,619	1,424	1,424
	BN	1,243	1,068	1,068
	D	623	550	550
	C	340	311	311
	All	1,503	1,384	1,384
MAY	W	3,170	2,885	2,885
	AN	1,439	1,179	1,179
	BN	976	812	812
	D	406	333	333
	C	181	170	170
	All	1,463	1,289	1,289
JUN	W	1,755	1,415	1,415
	AN	851	631	631
	BN	471	366	366
	D	93	76	76
	C	52	44	44
	All	779	616	616
JUL	W	772	469	469
	AN	347	167	167
	BN	123	70	70
	D	7	6	6
	C	3	3	3
	All	315	183	183

Alternative 7: In Delta—Mokelumne River at the Delta				
Month	WYT^a	EXISTING CONDITIONS	NAA	A7_LLТ
AUG	W	703	346	346
	AN	328	216	216
	BN	112	71	71
	D	4	4	4
	C	2	2	2
	All	289	156	156
SEP	W	702	497	497
	AN	333	259	259
	BN	114	91	91
	D	9	9	9
	C	5	5	5
	All	291	213	213
OCT	W	161	147	147
	AN	178	180	180
	BN	154	144	144
	D	180	160	160
	C	117	123	123
	All	158	150	150
NOV	W	487	431	431
	AN	912	855	855
	BN	347	301	301
	D	380	327	327
	C	195	186	186
	All	474	429	429
DEC	W	1,504	1,732	1,732
	AN	1,411	1,628	1,628
	BN	447	472	472
	D	384	374	374
	C	204	209	209
	All	887	999	999

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 36. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Mokelumne**
 2 **River at the Delta, Year-Round**

Alternative 7: In Delta—Mokelumne River at the Delta			
Month	WYT ^b	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	563 (18.3%)	0 (0%)
	AN	169 (9.9%)	0 (0%)
	BN	21 (3.4%)	0 (0%)
	D	-2 (-0.5%)	0 (0%)
	C	1 (0.3%)	0 (0%)
	All	201 (13.8%)	0 (0%)
FEB	W	491 (14.9%)	0 (0%)
	AN	388 (15.4%)	0 (0%)
	BN	24 (2.4%)	0 (0%)
	D	-17 (-2.4%)	0 (0%)
	C	15 (3.5%)	0 (0%)
	All	223 (12.3%)	0 (0%)
MAR	W	158 (5%)	0 (0%)
	AN	57 (3.6%)	0 (0%)
	BN	-41 (-3.4%)	0 (0%)
	D	-63 (-8.3%)	0 (0%)
	C	-15 (-2.5%)	0 (0%)
	All	38 (2.3%)	0 (0%)
APR	W	-125 (-4.4%)	0 (0%)
	AN	-194 (-12%)	0 (0%)
	BN	-175 (-14.1%)	0 (0%)
	D	-73 (-11.7%)	0 (0%)
	C	-29 (-8.7%)	0 (0%)
	All	-120 (-8%)	0 (0%)
MAY	W	-284 (-9%)	0 (0%)
	AN	-260 (-18.1%)	0 (0%)
	BN	-164 (-16.8%)	0 (0%)
	D	-72 (-17.8%)	0 (0%)
	C	-11 (-6.1%)	0 (0%)
	All	-174 (-11.9%)	0 (0%)
JUN	W	-339 (-19.3%)	0 (0%)
	AN	-220 (-25.8%)	0 (0%)
	BN	-105 (-22.3%)	0 (0%)
	D	-17 (-18.8%)	0 (0%)
	C	-8 (-14.7%)	0 (0%)
	All	-163 (-20.9%)	0 (0%)
JUL	W	-303 (-39.3%)	0 (0%)
	AN	-180 (-51.8%)	0 (0%)
	BN	-54 (-43.4%)	0 (0%)
	D	0 (-3.1%)	0 (0%)
	C	0 (-4.4%)	0 (0%)
	All	-132 (-42%)	0 (0%)

Alternative 7: In Delta—Mokelumne River at the Delta			
Month	WYT^b	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
AUG	W	-357 (-50.8%)	0 (0%)
	AN	-113 (-34.3%)	0 (0%)
	BN	-41 (-36.5%)	0 (0%)
	D	0 (-0.5%)	0 (0%)
	C	0 (-3.1%)	0 (0%)
	All	-133 (-46.1%)	0 (0%)
SEP	W	-205 (-29.3%)	0 (0%)
	AN	-74 (-22.2%)	0 (0%)
	BN	-23 (-20.5%)	0 (0%)
	D	-1 (-5.9%)	0 (0%)
	C	0 (4.6%)	0 (0%)
	All	-78 (-26.9%)	0 (0%)
OCT	W	-14 (-8.7%)	0 (0%)
	AN	2 (1.1%)	0 (0%)
	BN	-10 (-6.6%)	0 (0%)
	D	-20 (-11.1%)	0 (0%)
	C	6 (4.7%)	0 (0%)
	All	-7 (-4.7%)	0 (0%)
NOV	W	-56 (-11.5%)	0 (0%)
	AN	-57 (-6.3%)	0 (0%)
	BN	-46 (-13.2%)	0 (0%)
	D	-53 (-13.9%)	0 (0%)
	C	-9 (-4.6%)	0 (0%)
	All	-45 (-9.5%)	0 (0%)
DEC	W	228 (15.2%)	0 (0%)
	AN	217 (15.4%)	0 (0%)
	BN	25 (5.5%)	0 (0%)
	D	-10 (-2.6%)	0 (0%)
	C	6 (2.9%)	0 (0%)
	All	113 (12.7%)	0 (0%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.8 Alternative 8**2 **11C.8.1 Upstream**3 **11C.8.1.1 Sacramento River at Keswick**4 **Table 1. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Keswick,**
5 **Year-Round**

Alternative 8: Upstream—Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1T
JAN	W	16,526	18,233	19,896
	AN	8,318	8,205	9,021
	BN	4,502	4,184	5,290
	D	3,996	4,096	3,596
	C	3,490	4,238	3,460
	All	8,614	9,215	9,827
FEB	W	18,577	20,853	21,267
	AN	14,409	15,297	15,609
	BN	5,981	5,544	6,120
	D	3,684	3,410	4,167
	C	3,599	3,372	4,012
	All	10,355	11,039	11,574
MAR	W	16,200	17,065	17,194
	AN	9,131	8,818	9,084
	BN	5,200	4,318	5,006
	D	3,903	3,814	5,479
	C	3,487	3,583	3,868
	All	8,728	8,800	9,404
APR	W	9,418	9,131	9,585
	AN	6,182	5,536	7,440
	BN	5,426	5,009	7,981
	D	5,803	5,533	7,335
	C	6,472	6,550	6,320
	All	7,038	6,733	8,026
MAY	W	9,508	7,149	8,580
	AN	7,709	7,783	10,326
	BN	7,193	6,272	8,253
	D	7,349	7,681	7,651
	C	6,715	7,316	7,708
	All	7,967	7,233	8,448
JUN	W	10,375	10,274	11,990
	AN	11,147	12,032	13,183
	BN	10,758	10,947	10,957
	D	11,224	11,898	10,804
	C	10,392	11,350	12,247
	All	10,742	11,160	11,766

Alternative 8: Upstream—Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JUL	W	12,779	14,098	13,504
	AN	14,056	15,098	13,510
	BN	12,965	13,177	11,458
	D	13,302	13,727	12,777
	C	12,849	11,935	11,399
	All	13,123	13,689	12,688
AUG	W	11,029	10,491	10,059
	AN	10,449	11,641	9,528
	BN	10,139	10,261	8,606
	D	10,627	10,986	10,264
	C	9,473	7,348	7,379
	All	10,476	10,269	9,386
SEP	W	9,385	12,833	11,785
	AN	5,862	9,898	8,117
	BN	5,492	5,601	4,023
	D	5,985	4,469	3,997
	C	5,563	4,368	4,421
	All	6,899	8,094	7,136
OCT	W	6,886	7,034	5,906
	AN	7,145	7,152	6,243
	BN	6,396	7,072	5,225
	D	6,128	6,494	5,721
	C	5,902	5,752	4,317
	All	6,530	6,752	5,566
NOV	W	6,672	7,539	6,317
	AN	6,224	7,134	5,554
	BN	5,088	5,936	4,756
	D	5,669	5,406	4,658
	C	4,822	4,710	4,421
	All	5,845	6,324	5,297
DEC	W	12,766	11,022	11,788
	AN	5,531	5,377	4,495
	BN	5,413	5,195	5,211
	D	4,215	3,936	3,709
	C	3,828	3,582	3,766
	All	7,267	6,557	6,651

1 **Table 2. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Keswick, Year-Round**

Alternative 8: Upstream—Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
JAN	W	3,370 (20.4%)	1,663 (9.1%)
	AN	703 (8.5%)	816 (9.9%)
	BN	788 (17.5%)	1,106 (26.4%)
	D	-400 (-10%)	-500 (-12.2%)
	C	-31 (-0.9%)	-778 (-18.4%)
	All	1,214 (14.1%)	612 (6.6%)
FEB	W	2,689 (14.5%)	413 (2%)
	AN	1,200 (8.3%)	312 (2%)
	BN	138 (2.3%)	575 (10.4%)
	D	484 (13.1%)	758 (22.2%)
	C	413 (11.5%)	640 (19%)
	All	1,219 (11.8%)	535 (4.8%)
MAR	W	994 (6.1%)	128 (0.8%)
	AN	-47 (-0.5%)	266 (3%)
	BN	-193 (-3.7%)	688 (15.9%)
	D	1,575 (40.4%)	1,665 (43.7%)
	C	381 (10.9%)	285 (7.9%)
	All	677 (7.8%)	604 (6.9%)
APR	W	167 (1.8%)	454 (5%)
	AN	1,258 (20.3%)	1,904 (34.4%)
	BN	2,555 (47.1%)	2,973 (59.4%)
	D	1,533 (26.4%)	1,802 (32.6%)
	C	-152 (-2.3%)	-230 (-3.5%)
	All	987 (14%)	1,292 (19.2%)
MAY	W	-928 (-9.8%)	1,431 (20%)
	AN	2,618 (34%)	2,543 (32.7%)
	BN	1,060 (14.7%)	1,982 (31.6%)
	D	302 (4.1%)	-30 (-0.4%)
	C	993 (14.8%)	392 (5.4%)
	All	482 (6%)	1,215 (16.8%)
JUN	W	1,615 (15.6%)	1,716 (16.7%)
	AN	2,036 (18.3%)	1,151 (9.6%)
	BN	199 (1.8%)	10 (0.1%)
	D	-420 (-3.7%)	-1,094 (-9.2%)
	C	1,855 (17.8%)	897 (7.9%)
	All	1,023 (9.5%)	605 (5.4%)
JUL	W	724 (5.7%)	-594 (-4.2%)
	AN	-547 (-3.9%)	-1,588 (-10.5%)
	BN	-1,507 (-11.6%)	-1,718 (-13%)
	D	-525 (-3.9%)	-950 (-6.9%)
	C	-1,450 (-11.3%)	-535 (-4.5%)
	All	-435 (-3.3%)	-1,001 (-7.3%)

Alternative 8: Upstream—Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	-970 (-8.8%)	-432 (-4.1%)
	AN	-921 (-8.8%)	-2,113 (-18.2%)
	BN	-1,533 (-15.1%)	-1,654 (-16.1%)
	D	-363 (-3.4%)	-722 (-6.6%)
	C	-2,093 (-22.1%)	32 (0.4%)
	All	-1,090 (-10.4%)	-882 (-8.6%)
SEP	W	2,400 (25.6%)	-1,048 (-8.2%)
	AN	2,254 (38.5%)	-1,781 (-18%)
	BN	-1,469 (-26.8%)	-1,578 (-28.2%)
	D	-1,988 (-33.2%)	-471 (-10.5%)
	C	-1,142 (-20.5%)	53 (1.2%)
	All	237 (3.4%)	-958 (-11.8%)
OCT	W	-980 (-14.2%)	-1,129 (-16%)
	AN	-902 (-12.6%)	-909 (-12.7%)
	BN	-1,172 (-18.3%)	-1,847 (-26.1%)
	D	-407 (-6.6%)	-773 (-11.9%)
	C	-1,585 (-26.9%)	-1,435 (-24.9%)
	All	-964 (-14.8%)	-1,186 (-17.6%)
NOV	W	-355 (-5.3%)	-1,222 (-16.2%)
	AN	-670 (-10.8%)	-1,580 (-22.1%)
	BN	-331 (-6.5%)	-1,179 (-19.9%)
	D	-1,011 (-17.8%)	-748 (-13.8%)
	C	-401 (-8.3%)	-289 (-6.1%)
	All	-548 (-9.4%)	-1,026 (-16.2%)
DEC	W	-977 (-7.7%)	766 (7%)
	AN	-1,036 (-18.7%)	-882 (-16.4%)
	BN	-202 (-3.7%)	16 (0.3%)
	D	-505 (-12%)	-227 (-5.8%)
	C	-62 (-1.6%)	184 (5.1%)
	All	-616 (-8.5%)	94 (1.4%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.8.1.2 Sacramento River Upstream of Red Bluff**

2 **Table 3. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River Upstream of Red**
 3 **Bluff, Year-Round**

Alternative 8: Upstream—Sacramento River Upstream of Red Bluff				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	28,036	30,390	32,040
	AN	16,725	16,885	17,699
	BN	9,381	9,146	10,244
	D	7,098	7,262	6,758
	C	6,143	6,942	6,165
	All	15,396	16,278	16,884
FEB	W	30,255	33,472	33,851
	AN	23,492	24,828	25,128
	BN	12,005	11,614	12,175
	D	8,947	8,790	9,545
	C	6,599	6,378	7,015
	All	18,010	19,092	19,611
MAR	W	25,004	26,210	26,335
	AN	16,599	16,428	16,688
	BN	9,333	8,474	9,142
	D	8,385	8,300	9,955
	C	5,999	6,101	6,363
	All	14,669	14,876	15,469
APR	W	15,172	14,842	15,296
	AN	10,477	9,761	11,665
	BN	8,711	8,282	11,258
	D	7,948	7,661	9,456
	C	7,742	7,829	7,583
	All	10,709	10,376	11,665
MAY	W	12,541	10,073	11,505
	AN	10,012	10,047	12,582
	BN	8,781	7,875	9,851
	D	8,677	9,012	8,978
	C	7,746	8,348	8,741
	All	9,979	9,208	10,421
JUN	W	11,905	11,720	13,435
	AN	12,001	12,789	13,967
	BN	11,464	11,651	11,670
	D	11,777	12,441	11,363
	C	10,885	11,881	12,727
	All	11,666	12,046	12,653
JUL	W	13,255	14,525	13,955
	AN	14,129	15,142	13,566
	BN	13,011	13,258	11,568
	D	13,368	13,826	12,899
	C	13,005	12,149	11,757
	All	13,329	13,898	12,937

Alternative 8: Upstream—Sacramento River Upstream of Red Bluff				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
AUG	W	11,284	10,735	10,324
	AN	10,580	11,775	9,685
	BN	10,202	10,364	8,741
	D	10,747	11,143	10,438
	C	9,590	7,665	7,762
	All	10,630	10,464	9,610
SEP	W	9,856	13,312	12,276
	AN	6,279	10,320	8,559
	BN	5,821	5,963	4,409
	D	6,391	4,911	4,450
	C	5,887	4,838	4,903
	All	7,302	8,535	7,592
OCT	W	8,020	8,188	7,066
	AN	8,112	8,162	7,262
	BN	7,094	7,778	5,946
	D	6,903	7,287	6,507
	C	6,670	6,537	5,142
	All	7,432	7,675	6,499
NOV	W	9,876	10,821	9,604
	AN	8,144	9,098	7,521
	BN	6,791	7,682	6,516
	D	7,548	7,347	6,603
	C	5,811	5,703	5,444
	All	7,990	8,521	7,504
DEC	W	21,015	19,613	20,384
	AN	10,019	10,053	9,176
	BN	8,408	8,228	8,247
	D	7,292	7,091	6,866
	C	5,628	5,433	5,605
	All	11,989	11,446	11,541

1 **Table 4. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **Upstream of Red Bluff, Year-Round**

Alternative 8: Upstream—Sacramento River Upstream of Red Bluff			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
JAN	W	4,004 (14.3%)	1,650 (5.4%)
	AN	975 (5.8%)	814 (4.8%)
	BN	863 (9.2%)	1,098 (12%)
	D	-340 (-4.8%)	-504 (-6.9%)
	C	21 (0.3%)	-777 (-11.2%)
	All	1,488 (9.7%)	605 (3.7%)
FEB	W	3,596 (11.9%)	380 (1.1%)
	AN	1,636 (7%)	300 (1.2%)
	BN	171 (1.4%)	561 (4.8%)
	D	598 (6.7%)	755 (8.6%)
	C	416 (6.3%)	636 (10%)
	All	1,601 (8.9%)	519 (2.7%)
MAR	W	1,331 (5.3%)	124 (0.5%)
	AN	89 (0.5%)	259 (1.6%)
	BN	-191 (-2%)	668 (7.9%)
	D	1,570 (18.7%)	1,655 (19.9%)
	C	364 (6.1%)	261 (4.3%)
	All	800 (5.5%)	593 (4%)
APR	W	125 (0.8%)	454 (3.1%)
	AN	1,187 (11.3%)	1,903 (19.5%)
	BN	2,548 (29.2%)	2,976 (35.9%)
	D	1,507 (19%)	1,794 (23.4%)
	C	-159 (-2.1%)	-246 (-3.1%)
	All	956 (8.9%)	1,288 (12.4%)
MAY	W	-1,035 (-8.3%)	1,433 (14.2%)
	AN	2,570 (25.7%)	2,535 (25.2%)
	BN	1,070 (12.2%)	1,977 (25.1%)
	D	301 (3.5%)	-34 (-0.4%)
	C	995 (12.8%)	393 (4.7%)
	All	442 (4.4%)	1,213 (13.2%)
JUN	W	1,530 (12.8%)	1,715 (14.6%)
	AN	1,965 (16.4%)	1,177 (9.2%)
	BN	207 (1.8%)	20 (0.2%)
	D	-414 (-3.5%)	-1,078 (-8.7%)
	C	1,842 (16.9%)	846 (7.1%)
	All	987 (8.5%)	607 (5%)
JUL	W	701 (5.3%)	-570 (-3.9%)
	AN	-563 (-4%)	-1,576 (-10.4%)
	BN	-1,443 (-11.1%)	-1,690 (-12.8%)
	D	-469 (-3.5%)	-927 (-6.7%)
	C	-1,247 (-9.6%)	-392 (-3.2%)
	All	-392 (-2.9%)	-961 (-6.9%)

Alternative 8: Upstream—Sacramento River Upstream of Red Bluff			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	-959 (-8.5%)	-411 (-3.8%)
	AN	-895 (-8.5%)	-2,090 (-17.8%)
	BN	-1,461 (-14.3%)	-1,623 (-15.7%)
	D	-309 (-2.9%)	-705 (-6.3%)
	C	-1,828 (-19.1%)	97 (1.3%)
	All	-1,020 (-9.6%)	-854 (-8.2%)
SEP	W	2,420 (24.5%)	-1,037 (-7.8%)
	AN	2,280 (36.3%)	-1,761 (-17.1%)
	BN	-1,412 (-24.3%)	-1,554 (-26.1%)
	D	-1,941 (-30.4%)	-461 (-9.4%)
	C	-984 (-16.7%)	65 (1.3%)
	All	290 (4%)	-943 (-11.1%)
OCT	W	-954 (-11.9%)	-1,122 (-13.7%)
	AN	-850 (-10.5%)	-900 (-11%)
	BN	-1,149 (-16.2%)	-1,833 (-23.6%)
	D	-395 (-5.7%)	-779 (-10.7%)
	C	-1,528 (-22.9%)	-1,394 (-21.3%)
	All	-933 (-12.6%)	-1,175 (-15.3%)
NOV	W	-273 (-2.8%)	-1,217 (-11.3%)
	AN	-623 (-7.6%)	-1,577 (-17.3%)
	BN	-275 (-4%)	-1,166 (-15.2%)
	D	-945 (-12.5%)	-744 (-10.1%)
	C	-368 (-6.3%)	-260 (-4.6%)
	All	-486 (-6.1%)	-1,017 (-11.9%)
DEC	W	-631 (-3%)	771 (3.9%)
	AN	-843 (-8.4%)	-877 (-8.7%)
	BN	-161 (-1.9%)	19 (0.2%)
	D	-426 (-5.8%)	-225 (-3.2%)
	C	-23 (-0.4%)	172 (3.2%)
	All	-448 (-3.7%)	95 (0.8%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.8.1.3 Sacramento River at Wilkins Slough**

2 **Table 5. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Wilkins Slough,**
 3 **Year-Round**

Alternative 8: Upstream—Sacramento River at Wilkins Slough				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	19,145	19,320	19,354
	AN	17,084	16,593	17,068
	BN	12,521	12,143	12,867
	D	8,896	9,189	8,684
	C	7,858	8,586	7,745
	All	13,811	13,901	13,871
FEB	W	19,887	20,044	20,018
	AN	19,139	19,095	19,501
	BN	14,528	14,328	14,662
	D	11,520	11,473	11,935
	C	8,499	8,158	8,783
	All	15,359	15,309	15,609
MAR	W	18,223	18,323	18,359
	AN	17,696	17,537	17,722
	BN	12,208	11,534	12,109
	D	11,364	11,191	12,705
	C	8,101	8,166	8,345
	All	14,132	13,997	14,492
APR	W	13,392	13,119	13,525
	AN	10,264	9,783	11,611
	BN	7,152	6,858	9,518
	D	5,319	5,112	6,845
	C	4,164	4,331	4,064
	All	8,746	8,518	9,710
MAY	W	10,467	8,435	9,872
	AN	7,318	7,500	10,170
	BN	5,638	4,871	6,754
	D	4,669	5,088	4,985
	C	3,998	4,528	4,942
	All	6,962	6,383	7,589
JUN	W	6,503	6,435	8,116
	AN	5,781	6,530	7,682
	BN	5,243	5,628	5,727
	D	5,245	6,075	5,095
	C	5,140	6,253	6,898
	All	5,707	6,205	6,803
JUL	W	6,685	7,771	7,182
	AN	6,971	7,892	6,373
	BN	6,122	6,560	5,020
	D	6,788	7,474	6,628
	C	7,162	6,649	6,710
	All	6,723	7,353	6,504

Alternative 8: Upstream—Sacramento River at Wilkins Slough				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
AU	W	6,287	5,537	5,219
	AN	5,498	6,610	4,684
	BN	5,138	5,462	3,981
	D	5,833	6,356	5,667
	C	5,551	4,719	5,650
	All	5,768	5,741	5,091
SEP	W	9,338	12,737	11,701
	AN	5,631	9,546	7,878
	BN	5,128	5,216	3,738
	D	5,636	4,114	3,657
	C	5,200	4,354	4,383
	All	6,658	7,866	6,945
OCT	W	7,347	7,382	6,255
	AN	6,799	6,927	5,983
	BN	5,987	6,570	4,743
	D	5,688	6,040	5,223
	C	5,642	5,572	4,183
	All	6,421	6,617	5,428
NOV	W	9,644	10,889	9,486
	AN	8,210	9,141	7,572
	BN	6,793	7,588	6,450
	D	7,407	7,227	6,477
	C	5,118	4,986	4,820
	All	7,794	8,402	7,344
DEC	W	17,881	17,257	17,382
	AN	10,809	10,755	10,438
	BN	8,505	8,258	8,159
	D	8,950	8,725	8,463
	C	6,229	5,981	6,077
	All	11,580	11,246	11,179

1 **Table 6. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Wilkins Slough, Year-Round**

Alternative 8: Upstream—Sacramento River at Wilkins Slough			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
JAN	W	209 (1.1%)	33 (0.2%)
	AN	-16 (-0.1%)	475 (2.9%)
	BN	346 (2.8%)	724 (6%)
	D	-212 (-2.4%)	-505 (-5.5%)
	C	-112 (-1.4%)	-840 (-9.8%)
	All	60 (0.4%)	-30 (-0.2%)
FEB	W	130 (0.7%)	-27 (-0.1%)
	AN	362 (1.9%)	406 (2.1%)
	BN	134 (0.9%)	334 (2.3%)
	D	416 (3.6%)	462 (4%)
	C	285 (3.3%)	625 (7.7%)
	All	250 (1.6%)	301 (2%)
MAR	W	137 (0.8%)	37 (0.2%)
	AN	27 (0.2%)	186 (1.1%)
	BN	-99 (-0.8%)	575 (5%)
	D	1,342 (11.8%)	1,515 (13.5%)
	C	245 (3%)	180 (2.2%)
	All	361 (2.6%)	496 (3.5%)
APR	W	133 (1%)	406 (3.1%)
	AN	1,347 (13.1%)	1,828 (18.7%)
	BN	2,365 (33.1%)	2,660 (38.8%)
	D	1,525 (28.7%)	1,733 (33.9%)
	C	-99 (-2.4%)	-266 (-6.1%)
	All	964 (11%)	1,192 (14%)
MAY	W	-595 (-5.7%)	1,436 (17%)
	AN	2,852 (39%)	2,670 (35.6%)
	BN	1,116 (19.8%)	1,883 (38.7%)
	D	316 (6.8%)	-103 (-2%)
	C	943 (23.6%)	413 (9.1%)
	All	627 (9%)	1,206 (18.9%)
JUN	W	1,612 (24.8%)	1,681 (26.1%)
	AN	1,901 (32.9%)	1,152 (17.6%)
	BN	485 (9.2%)	99 (1.8%)
	D	-150 (-2.9%)	-980 (-16.1%)
	C	1,757 (34.2%)	645 (10.3%)
	All	1,096 (19.2%)	598 (9.6%)
JUL	W	497 (7.4%)	-589 (-7.6%)
	AN	-598 (-8.6%)	-1,519 (-19.2%)
	BN	-1,102 (-18%)	-1,540 (-23.5%)
	D	-160 (-2.4%)	-847 (-11.3%)
	C	-452 (-6.3%)	60 (0.9%)
	All	-219 (-3.3%)	-849 (-11.5%)

Alternative 8: Upstream—Sacramento River at Wilkins Slough			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1T	NAA vs. A8_LL1T
AUG	W	-1,068 (-17%)	-318 (-5.7%)
	AN	-815 (-14.8%)	-1,927 (-29.1%)
	BN	-1,156 (-22.5%)	-1,481 (-27.1%)
	D	-166 (-2.8%)	-689 (-10.8%)
	C	98 (1.8%)	930 (19.7%)
	All	-677 (-11.7%)	-650 (-11.3%)
SEP	W	2,363 (25.3%)	-1,036 (-8.1%)
	AN	2,246 (39.9%)	-1,668 (-17.5%)
	BN	-1,389 (-27.1%)	-1,477 (-28.3%)
	D	-1,979 (-35.1%)	-457 (-11.1%)
	C	-817 (-15.7%)	29 (0.7%)
	All	287 (4.3%)	-921 (-11.7%)
OCT	W	-1,091 (-14.9%)	-1,126 (-15.3%)
	AN	-816 (-12%)	-944 (-13.6%)
	BN	-1,244 (-20.8%)	-1,827 (-27.8%)
	D	-465 (-8.2%)	-817 (-13.5%)
	C	-1,458 (-25.9%)	-1,389 (-24.9%)
	All	-993 (-15.5%)	-1,190 (-18%)
NOV	W	-158 (-1.6%)	-1,403 (-12.9%)
	AN	-638 (-7.8%)	-1,569 (-17.2%)
	BN	-342 (-5%)	-1,138 (-15%)
	D	-930 (-12.6%)	-750 (-10.4%)
	C	-298 (-5.8%)	-166 (-3.3%)
	All	-450 (-5.8%)	-1,058 (-12.6%)
DEC	W	-499 (-2.8%)	125 (0.7%)
	AN	-371 (-3.4%)	-317 (-2.9%)
	BN	-346 (-4.1%)	-99 (-1.2%)
	D	-487 (-5.4%)	-262 (-3%)
	C	-151 (-2.4%)	96 (1.6%)
	All	-401 (-3.5%)	-67 (-0.6%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.8.1.4 Sacramento River at Verona**

2 **Table 7. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Verona,**
 3 **Year-Round**

Alternative 8: Upstream—Sacramento River at Verona				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LLT
JAN	W	44,589	45,567	45,486
	AN	34,120	33,671	34,145
	BN	20,175	19,121	19,745
	D	14,756	14,782	14,534
	C	12,085	13,051	11,774
	All	27,583	27,795	27,704
FEB	W	49,892	51,326	49,945
	AN	39,162	39,749	40,478
	BN	26,429	25,341	26,177
	D	18,402	18,090	20,375
	C	12,822	12,325	13,627
	All	31,979	32,192	32,696
MAR	W	43,455	44,624	42,619
	AN	39,477	39,687	38,706
	BN	21,484	19,448	21,736
	D	17,868	17,649	21,381
	C	11,903	11,789	13,404
	All	28,888	28,877	29,544
APR	W	32,219	31,636	34,666
	AN	22,250	21,313	27,482
	BN	14,459	13,857	21,969
	D	11,113	10,903	16,125
	C	9,420	9,489	10,345
	All	19,759	19,298	23,818
MAY	W	26,193	20,229	26,022
	AN	17,079	16,002	21,783
	BN	11,451	10,534	15,829
	D	9,283	9,841	11,177
	C	7,125	7,611	8,816
	All	15,840	13,828	17,885
JUN	W	18,367	15,304	17,196
	AN	13,590	13,574	13,497
	BN	11,062	11,320	10,488
	D	10,429	10,780	8,835
	C	8,911	9,827	10,219
	All	13,295	12,576	12,653
JUL	W	16,253	17,965	11,831
	AN	17,488	18,338	10,123
	BN	16,698	16,598	8,367
	D	16,352	16,465	9,540
	C	14,476	12,457	10,478
	All	16,271	16,651	10,289

Alternative 8: Upstream—Sacramento River at Verona				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LLT
AUG	W	12,464	14,016	9,152
	AN	13,691	15,828	8,840
	BN	13,389	14,074	7,561
	D	14,688	13,018	9,061
	C	9,207	8,085	8,744
	All	12,813	13,204	8,755
SEP	W	14,279	23,592	17,947
	AN	10,537	19,044	12,403
	BN	9,961	10,576	7,037
	D	10,542	7,664	6,970
	C	7,764	6,832	6,800
	All	11,220	14,755	11,232
OCT	W	11,503	11,232	9,087
	AN	9,381	9,890	8,314
	BN	9,867	10,146	7,336
	D	8,681	8,989	7,362
	C	8,543	8,104	5,983
	All	9,861	9,900	7,842
NOV	W	15,307	15,754	14,069
	AN	11,792	12,817	10,883
	BN	9,852	10,437	8,905
	D	10,157	9,731	8,928
	C	7,341	7,223	6,616
	All	11,565	11,846	10,502
DEC	W	33,840	31,254	29,865
	AN	17,572	18,481	15,611
	BN	13,099	13,028	12,040
	D	12,685	12,532	11,294
	C	9,770	8,627	8,293
	All	19,752	18,852	17,502

1 **Table 8. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Verona, Year-Round**

Alternative 8: Upstream—Sacramento River at Verona			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
JAN	W	897 (2%)	-81 (-0.2%)
	AN	24 (0.1%)	473 (1.4%)
	BN	-430 (-2.1%)	625 (3.3%)
	D	-222 (-1.5%)	-248 (-1.7%)
	C	-311 (-2.6%)	-1,277 (-9.8%)
	All	120 (0.4%)	-91 (-0.3%)
FEB	W	53 (0.1%)	-1,381 (-2.7%)
	AN	1,316 (3.4%)	729 (1.8%)
	BN	-252 (-1%)	837 (3.3%)
	D	1,973 (10.7%)	2,285 (12.6%)
	C	806 (6.3%)	1,302 (10.6%)
	All	717 (2.2%)	504 (1.6%)
MAR	W	-836 (-1.9%)	-2,005 (-4.5%)
	AN	-771 (-2%)	-981 (-2.5%)
	BN	252 (1.2%)	2,288 (11.8%)
	D	3,513 (19.7%)	3,732 (21.1%)
	C	1,501 (12.6%)	1,615 (13.7%)
	All	656 (2.3%)	667 (2.3%)
APR	W	2,447 (7.6%)	3,030 (9.6%)
	AN	5,232 (23.5%)	6,169 (28.9%)
	BN	7,510 (51.9%)	8,112 (58.5%)
	D	5,012 (45.1%)	5,222 (47.9%)
	C	924 (9.8%)	855 (9%)
	All	4,059 (20.5%)	4,520 (23.4%)
MAY	W	-172 (-0.7%)	5,793 (28.6%)
	AN	4,703 (27.5%)	5,781 (36.1%)
	BN	4,377 (38.2%)	5,294 (50.3%)
	D	1,894 (20.4%)	1,336 (13.6%)
	C	1,691 (23.7%)	1,205 (15.8%)
	All	2,044 (12.9%)	4,056 (29.3%)
JUN	W	-1,171 (-6.4%)	1,892 (12.4%)
	AN	-93 (-0.7%)	-77 (-0.6%)
	BN	-575 (-5.2%)	-833 (-7.4%)
	D	-1,593 (-15.3%)	-1,945 (-18%)
	C	1,308 (14.7%)	392 (4%)
	All	-641 (-4.8%)	77 (0.6%)
JUL	W	-4,421 (-27.2%)	-6,134 (-34.1%)
	AN	-7,365 (-42.1%)	-8,215 (-44.8%)
	BN	-8,331 (-49.9%)	-8,231 (-49.6%)
	D	-6,813 (-41.7%)	-6,926 (-42.1%)
	C	-3,997 (-27.6%)	-1,979 (-15.9%)
	All	-5,982 (-36.8%)	-6,362 (-38.2%)

Alternative 8: Upstream—Sacramento River at Verona			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1T	NAA vs. A8_LL1T
AUG	W	-3,312 (-26.6%)	-4,864 (-34.7%)
	AN	-4,851 (-35.4%)	-6,988 (-44.1%)
	BN	-5,828 (-43.5%)	-6,513 (-46.3%)
	D	-5,626 (-38.3%)	-3,956 (-30.4%)
	C	-463 (-5%)	659 (8.2%)
	All	-4,058 (-31.7%)	-4,449 (-33.7%)
SEP	W	3,668 (25.7%)	-5,645 (-23.9%)
	AN	1,867 (17.7%)	-6,640 (-34.9%)
	BN	-2,924 (-29.4%)	-3,539 (-33.5%)
	D	-3,572 (-33.9%)	-694 (-9%)
	C	-964 (-12.4%)	-32 (-0.5%)
	All	12 (0.1%)	-3,523 (-23.9%)
OCT	W	-2,417 (-21%)	-2,145 (-19.1%)
	AN	-1,067 (-11.4%)	-1,576 (-15.9%)
	BN	-2,531 (-25.7%)	-2,810 (-27.7%)
	D	-1,319 (-15.2%)	-1,627 (-18.1%)
	C	-2,561 (-30%)	-2,121 (-26.2%)
	All	-2,019 (-20.5%)	-2,058 (-20.8%)
NOV	W	-1,237 (-8.1%)	-1,685 (-10.7%)
	AN	-909 (-7.7%)	-1,934 (-15.1%)
	BN	-947 (-9.6%)	-1,533 (-14.7%)
	D	-1,228 (-12.1%)	-803 (-8.2%)
	C	-725 (-9.9%)	-607 (-8.4%)
	All	-1,063 (-9.2%)	-1,344 (-11.3%)
DEC	W	-3,976 (-11.7%)	-1,390 (-4.4%)
	AN	-1,961 (-11.2%)	-2,870 (-15.5%)
	BN	-1,059 (-8.1%)	-987 (-7.6%)
	D	-1,391 (-11%)	-1,238 (-9.9%)
	C	-1,477 (-15.1%)	-334 (-3.9%)
	All	-2,250 (-11.4%)	-1,350 (-7.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.8.1.5 Trinity River below Lewiston**2 **Table 9. Mean Monthly Flows (cfs) for Model Scenarios in the Trinity River Below Lewiston,**
3 **Year-Round**

Alternative 8: Upstream—Trinity River below Lewiston				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	1,440	1,518	1,641
	AN	300	300	300
	BN	358	300	300
	D	300	300	300
	C	300	287	277
	All	671	684	722
FEB	W	1,056	1,495	1,765
	AN	689	784	748
	BN	517	568	563
	D	300	300	300
	C	300	300	300
	All	634	795	875
MAR	W	1,209	1,385	1,585
	AN	436	519	519
	BN	319	300	300
	D	300	300	300
	C	300	300	300
	All	611	676	740
APR	W	721	844	844
	AN	469	513	458
	BN	507	504	504
	D	529	529	529
	C	575	580	580
	All	584	630	622
MAY	W	4,636	4,620	4,620
	AN	4,462	4,416	4,416
	BN	3,774	3,865	3,865
	D	3,216	3,216	3,216
	C	2,092	1,973	1,973
	All	3,779	3,766	3,766
JUN	W	3,371	3,560	3,560
	AN	2,488	3,188	3,188
	BN	1,672	1,767	1,767
	D	1,251	1,251	1,251
	C	783	783	783
	All	2,108	2,286	2,286
JUL	W	1,289	1,103	1,103
	AN	1,048	1,048	1,048
	BN	869	916	916
	D	667	667	667
	C	450	413	450
	All	923	866	872

Alternative 8: Upstream—Trinity River below Lewiston				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
AUG	W	450	450	450
	AN	450	450	450
	BN	450	450	450
	D	450	450	450
	C	450	338	263
	All	450	434	423
SEP	W	450	450	450
	AN	450	450	450
	BN	450	450	450
	D	450	450	450
	C	450	265	267
	All	450	423	423
OCT	W	373	373	373
	AN	373	311	314
	BN	346	346	346
	D	373	346	352
	C	373	311	280
	All	368	344	342
NOV	W	489	414	300
	AN	300	275	275
	BN	300	300	300
	D	300	283	283
	C	300	225	216
	All	360	318	280
DEC	W	1,072	837	923
	AN	300	300	300
	BN	300	300	300
	D	300	300	297
	C	300	275	247
	All	545	466	489

1 **Table 10. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Trinity River**
 2 **Below Lewiston, Year-Round**

Alternative 8: Upstream—Trinity River below Lewiston			
Month	WYT	EXISTING CONDITIONS vs. A8_LLТ	NAA vs. A8_LLТ
JAN	W	201 (14%)	122 (8.1%)
	AN	0 (0%)	0 (0%)
	BN	-58 (-16.3%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-23 (-7.6%)	-10 (-3.5%)
	All	50 (7.5%)	37 (5.5%)
FEB	W	709 (67.1%)	270 (18.1%)
	AN	59 (8.6%)	-35 (-4.5%)
	BN	46 (8.9%)	-5 (-1%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	241 (38.1%)	80 (10%)
MAR	W	376 (31.1%)	200 (14.4%)
	AN	83 (19.1%)	0 (0%)
	BN	-19 (-5.8%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	128 (21%)	63 (9.4%)
APR	W	122 (17%)	0 (0%)
	AN	-11 (-2.3%)	-54 (-10.6%)
	BN	-3 (-0.7%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	5 (0.9%)	0 (0%)
	All	37 (6.4%)	-8 (-1.3%)
MAY	W	-16 (-0.3%)	0 (0%)
	AN	-46 (-1%)	0 (0%)
	BN	90 (2.4%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-119 (-5.7%)	0 (0%)
	All	-14 (-0.4%)	0 (0%)
JUN	W	189 (5.6%)	0 (0%)
	AN	700 (28.1%)	0 (0%)
	BN	96 (5.7%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	179 (8.5%)	0 (0%)
JUL	W	-185 (-14.4%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	47 (5.4%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	37 (9.1%)
	All	-51 (-5.5%)	5 (0.6%)

Alternative 8: Upstream—Trinity River below Lewiston			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-187 (-41.7%)	-75 (-22.2%)
	All	-27 (-6.1%)	-11 (-2.5%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-183 (-40.7%)	2 (0.7%)
	All	-27 (-5.9%)	0 (0.1%)
OCT	W	0 (0%)	0 (0%)
	AN	-59 (-15.9%)	3 (1%)
	BN	0 (0%)	0 (0%)
	D	-21 (-5.6%)	6 (1.9%)
	C	-93 (-25%)	-31 (-10%)
	All	-27 (-7.3%)	-3 (-0.8%)
NOV	W	-189 (-38.6%)	-114 (-27.5%)
	AN	-25 (-8.3%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	-17 (-5.6%)	0 (0%)
	C	-84 (-28%)	-9 (-3.9%)
	All	-79 (-22.1%)	-37 (-11.8%)
DEC	W	-149 (-13.9%)	86 (10.3%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	-3 (-1.1%)	-3 (-1.1%)
	C	-53 (-17.8%)	-28 (-10.2%)
	All	-56 (-10.2%)	22 (4.8%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.8.1.6 Clear Creek below Whiskeytown**2 **Table 11. Mean Monthly Flows (cfs) for Model Scenarios in Clear Creek Below Whiskeytown,**
3 **Year-Round**

Alternative 8: Upstream—Clear Creek below Whiskeytown				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	220	339	339
	AN	192	192	192
	BN	189	189	189
	D	184	192	192
	C	155	159	167
	All	193	233	234
FEB	W	220	257	239
	AN	197	196	196
	BN	189	189	189
	D	184	192	192
	C	155	168	162
	All	194	209	203
MAR	W	200	259	258
	AN	197	196	196
	BN	189	202	189
	D	186	192	192
	C	155	168	154
	All	188	212	208
APR	W	200	200	200
	AN	197	196	196
	BN	189	189	189
	D	188	192	192
	C	155	168	154
	All	189	191	189
MAY	W	277	277	277
	AN	277	277	277
	BN	263	269	269
	D	264	264	264
	C	211	224	220
	All	262	265	265
JUN	W	200	200	200
	AN	200	200	228
	BN	181	186	186
	D	180	180	180
	C	115	131	120
	All	180	183	186
JUL	W	85	85	106
	AN	85	85	85
	BN	85	85	85
	D	85	85	85
	C	85	85	85
	All	85	85	92

Alternative 8: Upstream—Clear Creek below Whiskeytown				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
AUG	W	85	85	91
	AN	85	85	85
	BN	85	85	85
	D	85	85	85
	C	94	71	78
	All	86	83	86
SEP	W	150	150	151
	AN	150	150	150
	BN	150	150	150
	D	144	150	150
	C	133	96	108
	All	146	142	144
OCT	W	198	198	198
	AN	183	183	183
	BN	189	182	189
	D	175	183	175
	C	150	142	167
	All	182	182	185
NOV	W	198	198	198
	AN	185	182	182
	BN	184	189	189
	D	177	177	176
	C	155	145	162
	All	183	182	184
DEC	W	198	198	201
	AN	185	192	192
	BN	189	189	189
	D	177	189	189
	C	155	156	148
	All	184	187	187

1 **Table 12. Differences^a (Percent Differences) between Pairs of Model Scenarios in Clear Creek Below**
 2 **Whiskeytown, Year-Round**

Alternative 8: Upstream—Clear Creek below Whiskeytown			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
JAN	W	118 (53.7%)	0 (0%)
	AN	0 (-0.1%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	7 (3.9%)	0 (0%)
	C	12 (7.4%)	7 (4.7%)
	All	41 (21.1%)	1 (0.4%)
FEB	W	20 (8.9%)	-18 (-7.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	7 (3.9%)	0 (0%)
	C	7 (4.8%)	-6 (-3.4%)
	All	9 (4.5%)	-7 (-3.1%)
MAR	W	58 (29.2%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	-12 (-6.1%)
	D	6 (3.2%)	0 (0%)
	C	-1 (-0.6%)	-14 (-8.3%)
	All	20 (10.4%)	-4 (-2%)
APR	W	0 (0%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	3 (1.7%)	0 (0%)
	C	-1 (-0.6%)	-14 (-8.3%)
	All	0 (0.2%)	-2 (-1.1%)
MAY	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	6 (2.2%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	10 (4.5%)	-4 (-1.6%)
	All	2 (0.9%)	-1 (-0.2%)
JUN	W	0 (0%)	0 (0%)
	AN	28 (14.2%)	28 (14.2%)
	BN	5 (2.6%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	5 (4.7%)	-11 (-8.2%)
	All	6 (3.2%)	3 (1.4%)
JUL	W	21 (24.9%)	21 (24.9%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	7 (7.9%)	7 (7.9%)

Alternative 8: Upstream—Clear Creek below Whiskeytown			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	6 (7.4%)	6 (7.4%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-16 (-17.4%)	7 (10%)
	All	0 (-0.5%)	3 (3.7%)
SEP	W	1 (0.4%)	1 (0.4%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	6 (3.8%)	0 (0%)
	C	-25 (-18.7%)	12 (13%)
	All	-2 (-1.5%)	2 (1.4%)
OCT	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	7 (4.1%)
	D	0 (0%)	-8 (-4.5%)
	C	17 (11.1%)	25 (17.6%)
	All	2 (1.3%)	3 (1.7%)
NOV	W	0 (0%)	0 (0%)
	AN	-3 (-1.8%)	0 (0%)
	BN	6 (3.1%)	0 (0%)
	D	-1 (-0.6%)	0 (-0.2%)
	C	7 (4.6%)	17 (11.5%)
	All	1 (0.7%)	2 (1.3%)
DEC	W	3 (1.6%)	3 (1.6%)
	AN	7 (3.6%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	12 (6.6%)	0 (0%)
	C	-7 (-4.7%)	-8 (-5.2%)
	All	3 (1.9%)	0 (-0.1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.8.1.7 Feather River Low-Flow Channel (Upstream of Thermalito**
 2 **Afterbay)**

3 **Table 13. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River Upstream of Thermalito**
 4 **Afterbay (Low-Flow Channel), Year-Round**

Alternative 8: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL T
JAN	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
FEB	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
MAR	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
APR	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
MAY	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
JUN	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
JUL	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700

Alternative 8: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
AUG	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
SEP	W	773	773	773
	AN	773	773	773
	BN	773	773	773
	D	773	773	772
	C	773	773	773
	All	773	773	773
OCT	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
NOV	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
DEC	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800

1 **Table 14. Differences (Percent Differences) between Pairs of Model Scenarios in the Feather River**
 2 **Upstream of Thermalito Afterbay (Low-Flow Channel), Year-Round**

Alternative 8: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
JAN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
FEB	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
MAR	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
APR	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
MAY	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
JUN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
JUL	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)

Alternative 8: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	-1 (0.2%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
OCT	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
NOV	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
DEC	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)

1 **11C.8.1.8 Feather River High-Flow Channel (at Thermalito Afterbay)**

2 **Table 15. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at Thermalito Afterbay**
 3 **(High-Flow Channel), Year-Round**

Alternative 8: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1T
JAN	W	11,257	11,896	15,693
	AN	4,434	2,838	6,555
	BN	2,640	1,441	3,568
	D	1,798	1,459	2,626
	C	1,459	1,648	1,711
	All	5,277	4,995	7,371
FEB	W	12,466	14,787	15,609
	AN	7,411	5,809	10,262
	BN	3,916	1,897	5,745
	D	1,817	1,659	5,295
	C	1,610	1,482	2,733
	All	6,340	6,444	8,994
MAR	W	12,895	14,772	15,495
	AN	7,733	8,568	10,896
	BN	3,373	1,985	6,571
	D	2,017	1,762	6,545
	C	1,697	1,634	3,365
	All	6,487	6,902	9,559
APR	W	6,472	6,408	10,993
	AN	2,251	2,170	9,113
	BN	1,205	1,203	8,015
	D	1,286	1,470	5,647
	C	1,389	1,407	2,630
	All	3,073	3,084	7,812
MAY	W	7,528	4,740	9,237
	AN	3,340	3,101	6,578
	BN	1,205	1,749	5,348
	D	1,591	2,223	3,539
	C	1,574	1,790	2,332
	All	3,661	3,005	5,922
JUN	W	5,062	4,211	4,456
	AN	3,301	3,930	2,808
	BN	2,707	3,552	2,456
	D	3,134	3,284	2,032
	C	2,695	2,666	2,232
	All	3,632	3,628	3,016
JUL	W	6,490	8,577	3,245
	AN	8,757	9,488	2,910
	BN	8,981	8,833	2,168
	D	8,294	8,099	1,931
	C	6,703	5,217	2,948
	All	7,674	8,157	2,680

Alternative 8: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1T
AUG	W	3,308	6,228	2,046
	AN	6,042	7,346	2,367
	BN	6,295	6,868	1,994
	D	7,036	4,990	1,724
	C	2,613	2,163	1,668
	All	4,935	5,634	1,958
SEP	W	2,280	8,327	3,680
	AN	2,253	6,899	1,922
	BN	2,466	3,068	1,044
	D	2,366	1,052	984
	C	1,421	1,345	1,193
	All	2,201	4,601	2,017
OCT	W	3,456	3,051	2,021
	AN	2,386	2,741	2,106
	BN	3,183	2,862	1,899
	D	2,688	2,652	1,834
	C	2,472	2,102	1,355
	All	2,940	2,747	1,874
NOV	W	3,292	2,470	1,934
	AN	1,824	2,119	1,711
	BN	2,101	1,900	1,496
	D	1,859	1,664	1,580
	C	1,854	1,876	1,405
	All	2,349	2,058	1,671
DEC	W	7,157	3,948	5,338
	AN	2,951	3,344	1,655
	BN	2,176	2,102	1,429
	D	2,364	2,229	1,567
	C	2,609	1,694	1,299
	All	3,973	2,837	2,713

1 **Table 16. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Feather River at**
 2 **Thermalito Afterbay (High-Flow Channel), Year-Round**

Alternative 8: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
JAN	W	4,436 (39.4%)	3,798 (31.9%)
	AN	2,121 (47.8%)	3,717 (131%)
	BN	928 (35.2%)	2,127 (147.6%)
	D	827 (46%)	1,167 (80%)
	C	251 (17.2%)	63 (3.8%)
	All	2,094 (39.7%)	2,376 (47.6%)
FEB	W	3,143 (25.2%)	822 (5.6%)
	AN	2,851 (38.5%)	4,453 (76.7%)
	BN	1,829 (46.7%)	3,848 (202.9%)
	D	3,479 (191.5%)	3,636 (219.1%)
	C	1,122 (69.7%)	1,251 (84.4%)
	All	2,654 (41.9%)	2,551 (39.6%)
MAR	W	2,601 (20.2%)	723 (4.9%)
	AN	3,163 (40.9%)	2,328 (27.2%)
	BN	3,198 (94.8%)	4,587 (231.1%)
	D	4,528 (224.5%)	4,783 (271.5%)
	C	1,668 (98.3%)	1,731 (106%)
	All	3,071 (47.3%)	2,656 (38.5%)
APR	W	4,520 (69.8%)	4,584 (71.5%)
	AN	6,862 (304.8%)	6,943 (319.9%)
	BN	6,810 (565.3%)	6,811 (566.1%)
	D	4,361 (339.1%)	4,177 (284.1%)
	C	1,241 (89.4%)	1,223 (86.9%)
	All	4,739 (154.2%)	4,728 (153.3%)
MAY	W	1,709 (22.7%)	4,497 (94.9%)
	AN	3,238 (96.9%)	3,476 (112.1%)
	BN	4,142 (343.7%)	3,599 (205.8%)
	D	1,947 (122.4%)	1,315 (59.2%)
	C	758 (48.2%)	543 (30.3%)
	All	2,261 (61.8%)	2,917 (97.1%)
JUN	W	-605 (-12%)	246 (5.8%)
	AN	-493 (-14.9%)	-1,122 (-28.5%)
	BN	-250 (-9.2%)	-1,095 (-30.8%)
	D	-1,101 (-35.1%)	-1,251 (-38.1%)
	C	-463 (-17.2%)	-434 (-16.3%)
	All	-616 (-17%)	-612 (-16.9%)
JUL	W	-3,246 (-50%)	-5,333 (-62.2%)
	AN	-5,847 (-66.8%)	-6,578 (-69.3%)
	BN	-6,813 (-75.9%)	-6,664 (-75.5%)
	D	-6,363 (-76.7%)	-6,168 (-76.2%)
	C	-3,755 (-56%)	-2,269 (-43.5%)
	All	-4,994 (-65.1%)	-5,477 (-67.1%)

Alternative 8: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
AUG	W	-1,262 (-38.2%)	-4,182 (-67.2%)
	AN	-3,675 (-60.8%)	-4,978 (-67.8%)
	BN	-4,301 (-68.3%)	-4,874 (-71%)
	D	-5,313 (-75.5%)	-3,267 (-65.5%)
	C	-945 (-36.2%)	-495 (-22.9%)
	All	-2,977 (-60.3%)	-3,676 (-65.2%)
SEP	W	1,400 (61.4%)	-4,647 (-55.8%)
	AN	-330 (-14.7%)	-4,977 (-72.1%)
	BN	-1,422 (-57.7%)	-2,024 (-66%)
	D	-1,382 (-58.4%)	-68 (-6.5%)
	C	-228 (-16%)	-152 (-11.3%)
	All	-184 (-8.4%)	-2,584 (-56.2%)
OCT	W	-1,435 (-41.5%)	-1,030 (-33.8%)
	AN	-280 (-11.7%)	-635 (-23.2%)
	BN	-1,284 (-40.3%)	-963 (-33.6%)
	D	-855 (-31.8%)	-819 (-30.9%)
	C	-1,116 (-45.2%)	-747 (-35.5%)
	All	-1,066 (-36.3%)	-873 (-31.8%)
NOV	W	-1,358 (-41.3%)	-536 (-21.7%)
	AN	-113 (-6.2%)	-409 (-19.3%)
	BN	-606 (-28.8%)	-405 (-21.3%)
	D	-279 (-15%)	-84 (-5%)
	C	-449 (-24.2%)	-470 (-25.1%)
	All	-678 (-28.8%)	-386 (-18.8%)
DEC	W	-1,819 (-25.4%)	1,390 (35.2%)
	AN	-1,295 (-43.9%)	-1,688 (-50.5%)
	BN	-747 (-34.3%)	-673 (-32%)
	D	-796 (-33.7%)	-662 (-29.7%)
	C	-1,309 (-50.2%)	-395 (-23.3%)
	All	-1,260 (-31.7%)	-124 (-4.4%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.8.1.9 Feather River at Confluence with Sacramento River**

2 **Table 17. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at the Confluence with**
 3 **the Sacramento River, Year-Round**

Alternative 8: Upstream—Feather River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	23,533	26,106	29,850
	AN	12,430	11,953	15,646
	BN	6,499	5,575	7,683
	D	4,621	4,412	5,543
	C	3,646	3,837	3,873
	All	11,938	12,509	14,850
FEB	W	27,039	31,065	31,814
	AN	14,818	14,599	18,989
	BN	9,153	7,892	11,663
	D	4,402	4,436	8,022
	C	3,237	3,096	4,341
	All	13,744	14,761	17,254
MAR	W	24,172	26,784	27,442
	AN	19,990	21,490	23,746
	BN	8,136	6,882	11,360
	D	5,073	4,940	9,655
	C	2,933	2,756	4,490
	All	13,521	14,300	16,892
APR	W	15,897	15,852	20,381
	AN	9,832	9,585	16,479
	BN	5,401	5,189	11,910
	D	4,152	4,137	8,251
	C	3,298	3,185	4,358
	All	8,796	8,689	13,356
MAY	W	14,387	10,385	14,811
	AN	8,068	6,884	10,294
	BN	4,704	4,509	8,010
	D	3,652	3,767	5,028
	C	2,389	2,321	2,837
	All	7,697	6,237	9,089
JUN	W	10,222	7,199	7,350
	AN	6,391	5,598	4,274
	BN	4,495	4,342	3,133
	D	3,853	3,367	2,037
	C	2,782	2,522	1,907
	All	6,197	4,951	4,217
JUL	W	8,177	8,734	3,091
	AN	9,322	9,223	2,345
	BN	9,380	8,725	1,787
	D	8,290	7,674	1,260
	C	6,450	4,891	2,460
	All	8,322	8,009	2,265

Alternative 8: Upstream—Feather River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL T
AUG	W	4,923	7,222	2,529
	AN	7,080	8,089	2,785
	BN	7,236	7,570	2,256
	D	7,711	5,487	1,966
	C	2,841	2,340	1,872
	All	5,941	6,313	2,300
SEP	W	4,351	10,329	5,652
	AN	4,194	8,773	3,783
	BN	4,252	4,786	2,755
	D	4,179	2,848	2,619
	C	2,054	1,964	1,847
	All	3,937	6,289	3,661
OCT	W	4,176	3,746	2,746
	AN	2,630	2,988	2,381
	BN	3,754	3,437	2,491
	D	3,033	2,987	2,195
	C	2,938	2,566	1,848
	All	3,446	3,243	2,397
NOV	W	4,697	3,825	3,286
	AN	3,065	3,186	2,797
	BN	2,687	2,455	2,079
	D	2,342	2,125	2,073
	C	2,084	2,107	1,674
	All	3,216	2,873	2,506
DEC	W	12,409	10,246	11,595
	AN	5,193	6,000	4,299
	BN	3,079	3,249	2,534
	D	2,838	2,811	2,110
	C	2,975	2,054	1,657
	All	6,279	5,599	5,444

1 **Table 18. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Feather River at**
 2 **the Confluence with the Sacramento River, Year-Round**

Alternative 8: Upstream—Feather River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
JAN	W	6,317 (26.8%)	3,744 (14.3%)
	AN	3,216 (25.9%)	3,693 (30.9%)
	BN	1,184 (18.2%)	2,108 (37.8%)
	D	922 (19.9%)	1,131 (25.6%)
	C	227 (6.2%)	37 (1%)
	All	2,911 (24.4%)	2,341 (18.7%)
FEB	W	4,775 (17.7%)	749 (2.4%)
	AN	4,170 (28.1%)	4,389 (30.1%)
	BN	2,511 (27.4%)	3,771 (47.8%)
	D	3,621 (82.3%)	3,586 (80.8%)
	C	1,104 (34.1%)	1,245 (40.2%)
	All	3,509 (25.5%)	2,493 (16.9%)
MAR	W	3,270 (13.5%)	659 (2.5%)
	AN	3,756 (18.8%)	2,256 (10.5%)
	BN	3,224 (39.6%)	4,478 (65.1%)
	D	4,582 (90.3%)	4,715 (95.5%)
	C	1,557 (53.1%)	1,733 (62.9%)
	All	3,371 (24.9%)	2,592 (18.1%)
APR	W	4,484 (28.2%)	4,529 (28.6%)
	AN	6,646 (67.6%)	6,894 (71.9%)
	BN	6,509 (120.5%)	6,721 (129.5%)
	D	4,100 (98.8%)	4,115 (99.5%)
	C	1,059 (32.1%)	1,173 (36.8%)
	All	4,561 (51.9%)	4,667 (53.7%)
MAY	W	425 (3%)	4,426 (42.6%)
	AN	2,225 (27.6%)	3,410 (49.5%)
	BN	3,305 (70.3%)	3,501 (77.7%)
	D	1,376 (37.7%)	1,261 (33.5%)
	C	448 (18.8%)	516 (22.2%)
	All	1,392 (18.1%)	2,852 (45.7%)
JUN	W	-2,872 (-28.1%)	151 (2.1%)
	AN	-2,118 (-33.1%)	-1,324 (-23.7%)
	BN	-1,362 (-30.3%)	-1,209 (-27.8%)
	D	-1,816 (-47.1%)	-1,330 (-39.5%)
	C	-876 (-31.5%)	-616 (-24.4%)
	All	-1,980 (-31.9%)	-734 (-14.8%)
JUL	W	-5,086 (-62.2%)	-5,643 (-64.6%)
	AN	-6,977 (-74.8%)	-6,878 (-74.6%)
	BN	-7,594 (-81%)	-6,938 (-79.5%)
	D	-7,030 (-84.8%)	-6,415 (-83.6%)
	C	-3,991 (-61.9%)	-2,432 (-49.7%)
	All	-6,057 (-72.8%)	-5,744 (-71.7%)

Alternative 8: Upstream—Feather River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1T	NAA vs. A8_LL1T
AUG	W	-2,394 (-48.6%)	-4,693 (-65%)
	AN	-4,295 (-60.7%)	-5,304 (-65.6%)
	BN	-4,979 (-68.8%)	-5,313 (-70.2%)
	D	-5,746 (-74.5%)	-3,522 (-64.2%)
	C	-969 (-34.1%)	-468 (-20%)
	All	-3,641 (-61.3%)	-4,013 (-63.6%)
SEP	W	1,300 (29.9%)	-4,678 (-45.3%)
	AN	-411 (-9.8%)	-4,991 (-56.9%)
	BN	-1,497 (-35.2%)	-2,031 (-42.4%)
	D	-1,559 (-37.3%)	-228 (-8%)
	C	-207 (-10.1%)	-117 (-6%)
	All	-276 (-7%)	-2,628 (-41.8%)
OCT	W	-1,430 (-34.2%)	-999 (-26.7%)
	AN	-249 (-9.5%)	-608 (-20.3%)
	BN	-1,263 (-33.6%)	-947 (-27.5%)
	D	-838 (-27.6%)	-792 (-26.5%)
	C	-1,090 (-37.1%)	-718 (-28%)
	All	-1,049 (-30.4%)	-846 (-26.1%)
NOV	W	-1,411 (-30%)	-539 (-14.1%)
	AN	-268 (-8.7%)	-390 (-12.2%)
	BN	-608 (-22.6%)	-376 (-15.3%)
	D	-269 (-11.5%)	-51 (-2.4%)
	C	-410 (-19.7%)	-433 (-20.5%)
	All	-709 (-22.1%)	-367 (-12.8%)
DEC	W	-814 (-6.6%)	1,350 (13.2%)
	AN	-894 (-17.2%)	-1,701 (-28.3%)
	BN	-546 (-17.7%)	-715 (-22%)
	D	-728 (-25.7%)	-702 (-25%)
	C	-1,318 (-44.3%)	-398 (-19.4%)
	All	-835 (-13.3%)	-155 (-2.8%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.8.1.10 American River at Nimbus Dam**2 **Table 19. Mean Monthly Flows (cfs) for Model Scenarios in the American River at Nimbus Dam,**
3 **Year-Round**

Alternative 8: Upstream—American River at Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	8,806	11,036	11,121
	AN	4,833	5,805	6,235
	BN	2,392	2,073	2,259
	D	1,723	1,506	1,429
	C	1,474	1,095	1,003
	All	4,502	5,194	5,285
FEB	W	9,294	11,102	11,074
	AN	6,469	8,153	8,304
	BN	4,360	4,961	5,087
	D	1,852	1,844	1,950
	C	1,185	1,007	907
	All	5,218	6,112	6,156
MAR	W	6,089	6,992	6,996
	AN	5,454	5,790	5,452
	BN	2,429	2,794	2,801
	D	2,191	2,314	2,058
	C	939	938	807
	All	3,762	4,187	4,064
APR	W	5,300	5,508	5,597
	AN	3,546	3,298	3,240
	BN	3,126	2,970	3,384
	D	1,837	1,888	2,366
	C	1,156	1,255	1,717
	All	3,305	3,334	3,597
MAY	W	6,157	4,592	4,863
	AN	3,885	2,521	2,744
	BN	2,930	1,969	3,385
	D	1,790	1,686	2,888
	C	1,182	992	2,031
	All	3,587	2,676	3,453
JUN	W	6,003	3,694	3,987
	AN	3,346	3,022	3,339
	BN	2,863	2,883	2,910
	D	2,506	2,596	2,788
	C	1,824	1,025	1,522
	All	3,699	2,825	3,084
JUL	W	4,108	3,860	2,927
	AN	4,638	4,927	2,928
	BN	4,744	4,328	3,237
	D	3,577	3,143	2,604
	C	1,784	2,022	1,041
	All	3,838	3,670	2,633

Alternative 8: Upstream—American River at Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
AUG	W	3,520	2,132	2,007
	AN	2,542	1,944	2,042
	BN	2,495	2,324	2,460
	D	2,613	1,620	1,576
	C	1,500	1,100	955
	All	2,707	1,874	1,841
SEP	W	4,025	3,622	3,559
	AN	2,764	2,044	2,649
	BN	2,370	1,605	1,383
	D	1,856	1,182	1,150
	C	1,164	594	548
	All	2,663	2,068	2,085
OCT	W	1,723	1,634	1,598
	AN	1,706	1,732	1,953
	BN	1,602	1,767	1,610
	D	1,468	1,258	1,233
	C	1,461	1,655	1,629
	All	1,605	1,592	1,576
NOV	W	3,527	2,612	2,560
	AN	3,181	2,554	2,175
	BN	2,067	1,716	1,427
	D	2,176	1,424	1,494
	C	1,994	1,608	1,336
	All	2,706	2,043	1,897
DEC	W	6,302	6,171	6,407
	AN	3,137	2,933	2,947
	BN	2,676	2,527	2,461
	D	1,741	1,351	1,399
	C	1,524	1,251	1,117
	All	3,519	3,297	3,354

1 **Table 20. Differences^a (Percent Differences) between Pairs of Model Scenarios in the American River**
 2 **at Nimbus Dam, Year-Round**

Alternative 8: Upstream—American River at Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
JAN	W	2,315 (26.3%)	85 (0.8%)
	AN	1,402 (29%)	430 (7.4%)
	BN	-133 (-5.6%)	186 (9%)
	D	-294 (-17%)	-77 (-5.1%)
	C	-471 (-32%)	-92 (-8.4%)
	All	783 (17.4%)	91 (1.8%)
FEB	W	1,781 (19.2%)	-28 (-0.3%)
	AN	1,835 (28.4%)	151 (1.9%)
	BN	727 (16.7%)	126 (2.5%)
	D	98 (5.3%)	107 (5.8%)
	C	-278 (-23.5%)	-100 (-9.9%)
	All	938 (18%)	44 (0.7%)
MAR	W	907 (14.9%)	3 (0%)
	AN	-2 (0%)	-339 (-5.9%)
	BN	372 (15.3%)	7 (0.2%)
	D	-133 (-6.1%)	-256 (-11.1%)
	C	-132 (-14.1%)	-131 (-13.9%)
	All	302 (8%)	-123 (-2.9%)
APR	W	296 (5.6%)	88 (1.6%)
	AN	-306 (-8.6%)	-59 (-1.8%)
	BN	258 (8.3%)	415 (14%)
	D	529 (28.8%)	478 (25.3%)
	C	562 (48.6%)	462 (36.8%)
	All	292 (8.8%)	263 (7.9%)
MAY	W	-1,294 (-21%)	271 (5.9%)
	AN	-1,141 (-29.4%)	223 (8.9%)
	BN	455 (15.5%)	1,416 (71.9%)
	D	1,098 (61.4%)	1,202 (71.3%)
	C	850 (71.9%)	1,040 (104.9%)
	All	-134 (-3.7%)	777 (29%)
JUN	W	-2,016 (-33.6%)	293 (7.9%)
	AN	-6 (-0.2%)	317 (10.5%)
	BN	46 (1.6%)	27 (0.9%)
	D	283 (11.3%)	192 (7.4%)
	C	-302 (-16.6%)	498 (48.6%)
	All	-615 (-16.6%)	259 (9.2%)
JUL	W	-1,182 (-28.8%)	-934 (-24.2%)
	AN	-1,710 (-36.9%)	-1,999 (-40.6%)
	BN	-1,507 (-31.8%)	-1,091 (-25.2%)
	D	-973 (-27.2%)	-540 (-17.2%)
	C	-744 (-41.7%)	-982 (-48.5%)
	All	-1,205 (-31.4%)	-1,037 (-28.3%)

Alternative 8: Upstream—American River at Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1T	NAA vs. A8_LL1T
AUG	W	-1,513 (-43%)	-125 (-5.9%)
	AN	-500 (-19.7%)	98 (5%)
	BN	-34 (-1.4%)	136 (5.9%)
	D	-1,037 (-39.7%)	-44 (-2.7%)
	C	-545 (-36.3%)	-145 (-13.2%)
	All	-866 (-32%)	-33 (-1.8%)
SEP	W	-465 (-11.6%)	-63 (-1.7%)
	AN	-115 (-4.2%)	605 (29.6%)
	BN	-988 (-41.7%)	-222 (-13.8%)
	D	-706 (-38%)	-31 (-2.6%)
	C	-616 (-52.9%)	-45 (-7.7%)
	All	-578 (-21.7%)	17 (0.8%)
OCT	W	-124 (-7.2%)	-36 (-2.2%)
	AN	247 (14.5%)	221 (12.8%)
	BN	8 (0.5%)	-157 (-8.9%)
	D	-235 (-16%)	-26 (-2%)
	C	168 (11.5%)	-26 (-1.5%)
	All	-29 (-1.8%)	-15 (-1%)
NOV	W	-967 (-27.4%)	-52 (-2%)
	AN	-1,005 (-31.6%)	-379 (-14.8%)
	BN	-640 (-31%)	-289 (-16.8%)
	D	-682 (-31.3%)	70 (4.9%)
	C	-658 (-33%)	-272 (-16.9%)
	All	-809 (-29.9%)	-146 (-7.1%)
DEC	W	105 (1.7%)	236 (3.8%)
	AN	-190 (-6.1%)	14 (0.5%)
	BN	-215 (-8%)	-66 (-2.6%)
	D	-341 (-19.6%)	48 (3.6%)
	C	-407 (-26.7%)	-134 (-10.7%)
	All	-165 (-4.7%)	57 (1.7%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.8.1.11 American River at Confluence with Sacramento River**

2 **Table 21. Mean Monthly Flows (cfs) for Model Scenarios in the American River at the Confluence with**
 3 **the Sacramento River, Year-Round**

Alternative 8: Upstream—American River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	8,748	10,960	11,043
	AN	4,806	5,760	6,190
	BN	2,326	1,988	2,176
	D	1,654	1,424	1,347
	C	1,403	1,008	917
	All	4,443	5,118	5,209
FEB	W	9,183	10,947	10,919
	AN	6,422	8,073	8,219
	BN	4,309	4,888	5,012
	D	1,781	1,756	1,863
	C	1,119	921	823
	All	5,142	6,007	6,050
MAR	W	5,979	6,837	6,840
	AN	5,364	5,661	5,321
	BN	2,340	2,672	2,678
	D	2,121	2,224	1,967
	C	864	836	716
	All	3,672	4,063	3,941
APR	W	5,156	5,300	5,388
	AN	3,383	3,079	3,024
	BN	2,984	2,778	3,192
	D	1,672	1,677	2,156
	C	996	1,059	1,524
	All	3,152	3,128	3,392
MAY	W	5,959	4,332	4,603
	AN	3,700	2,285	2,509
	BN	2,733	1,726	3,139
	D	1,605	1,454	2,652
	C	1,014	790	1,826
	All	3,398	2,438	3,212
JUN	W	5,743	3,388	3,679
	AN	3,103	2,736	3,051
	BN	2,631	2,603	2,617
	D	2,282	2,320	2,501
	C	1,621	793	1,280
	All	3,462	2,545	2,796
JUL	W	3,844	3,560	2,624
	AN	4,399	4,635	2,634
	BN	4,509	4,038	2,948
	D	3,347	2,858	2,318
	C	1,568	1,784	828
	All	3,597	3,385	2,351

Alternative 8: Upstream—American River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
AUG	W	3,295	1,858	1,741
	AN	2,313	1,663	1,778
	BN	2,265	2,048	2,194
	D	2,395	1,357	1,318
	C	1,314	899	764
	All	2,488	1,612	1,588
SEP	W	3,846	3,415	3,353
	AN	2,594	1,838	2,442
	BN	2,205	1,402	1,178
	D	1,691	987	956
	C	1,011	427	385
	All	2,495	1,870	1,888
OCT	W	1,607	1,499	1,462
	AN	1,597	1,613	1,824
	BN	1,472	1,617	1,462
	D	1,344	1,114	1,090
	C	1,342	1,517	1,492
	All	1,486	1,454	1,438
NOV	W	3,472	2,540	2,488
	AN	3,100	2,455	2,077
	BN	1,990	1,618	1,336
	D	2,094	1,326	1,396
	C	1,897	1,489	1,218
	All	2,632	1,950	1,806
DEC	W	6,255	6,115	6,351
	AN	3,072	2,856	2,877
	BN	2,609	2,445	2,386
	D	1,675	1,275	1,322
	C	1,443	1,158	1,026
	All	3,457	3,224	3,283

1 **Table 22. Differences^a (Percent Differences) between Pairs of Model Scenarios in the American River**
 2 **at the Confluence with the Sacramento River, Year-Round**

Alternative 8: Upstream—American River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
JAN	W	2,295 (26.2%)	83 (0.8%)
	AN	1,384 (28.8%)	429 (7.5%)
	BN	-151 (-6.5%)	187 (9.4%)
	D	-307 (-18.6%)	-77 (-5.4%)
	C	-486 (-34.6%)	-90 (-9%)
	All	766 (17.2%)	91 (1.8%)
FEB	W	1,736 (18.9%)	-28 (-0.3%)
	AN	1,797 (28%)	147 (1.8%)
	BN	704 (16.3%)	124 (2.5%)
	D	83 (4.6%)	108 (6.1%)
	C	-296 (-26.5%)	-98 (-10.7%)
	All	908 (17.7%)	43 (0.7%)
MAR	W	861 (14.4%)	4 (0.1%)
	AN	-44 (-0.8%)	-340 (-6%)
	BN	338 (14.5%)	6 (0.2%)
	D	-154 (-7.2%)	-257 (-11.5%)
	C	-149 (-17.2%)	-121 (-14.4%)
	All	269 (7.3%)	-122 (-3%)
APR	W	232 (4.5%)	88 (1.7%)
	AN	-359 (-10.6%)	-55 (-1.8%)
	BN	209 (7%)	414 (14.9%)
	D	484 (28.9%)	479 (28.6%)
	C	528 (53%)	464 (43.8%)
	All	240 (7.6%)	264 (8.4%)
MAY	W	-1,356 (-22.8%)	270 (6.2%)
	AN	-1,190 (-32.2%)	224 (9.8%)
	BN	406 (14.8%)	1,413 (81.8%)
	D	1,047 (65.2%)	1,198 (82.4%)
	C	812 (80.1%)	1,036 (131%)
	All	-186 (-5.5%)	774 (31.8%)
JUN	W	-2,064 (-35.9%)	291 (8.6%)
	AN	-52 (-1.7%)	315 (11.5%)
	BN	-14 (-0.5%)	14 (0.5%)
	D	219 (9.6%)	181 (7.8%)
	C	-342 (-21.1%)	487 (61.4%)
	All	-666 (-19.2%)	252 (9.9%)
JUL	W	-1,220 (-31.7%)	-936 (-26.3%)
	AN	-1,765 (-40.1%)	-2,002 (-43.2%)
	BN	-1,562 (-34.6%)	-1,091 (-27%)
	D	-1,029 (-30.7%)	-540 (-18.9%)
	C	-740 (-47.2%)	-955 (-53.6%)
	All	-1,246 (-34.6%)	-1,034 (-30.6%)

Alternative 8: Upstream—American River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1T	NAA vs. A8_LL1T
AUG	W	-1,553 (-47.2%)	-117 (-6.3%)
	AN	-535 (-23.1%)	115 (6.9%)
	BN	-71 (-3.1%)	146 (7.1%)
	D	-1,077 (-45%)	-38 (-2.8%)
	C	-550 (-41.9%)	-136 (-15.1%)
	All	-900 (-36.2%)	-24 (-1.5%)
SEP	W	-493 (-12.8%)	-62 (-1.8%)
	AN	-152 (-5.8%)	604 (32.9%)
	BN	-1,027 (-46.6%)	-224 (-16%)
	D	-735 (-43.5%)	-31 (-3.2%)
	C	-626 (-61.9%)	-42 (-9.9%)
	All	-607 (-24.3%)	18 (0.9%)
OCT	W	-145 (-9%)	-37 (-2.4%)
	AN	227 (14.2%)	211 (13.1%)
	BN	-10 (-0.7%)	-155 (-9.6%)
	D	-254 (-18.9%)	-24 (-2.2%)
	C	151 (11.2%)	-25 (-1.6%)
	All	-48 (-3.3%)	-16 (-1.1%)
NOV	W	-984 (-28.3%)	-52 (-2%)
	AN	-1,022 (-33%)	-377 (-15.4%)
	BN	-654 (-32.9%)	-282 (-17.4%)
	D	-698 (-33.3%)	70 (5.3%)
	C	-679 (-35.8%)	-272 (-18.2%)
	All	-826 (-31.4%)	-144 (-7.4%)
DEC	W	96 (1.5%)	237 (3.9%)
	AN	-195 (-6.3%)	21 (0.7%)
	BN	-224 (-8.6%)	-60 (-2.4%)
	D	-352 (-21%)	47 (3.7%)
	C	-417 (-28.9%)	-131 (-11.3%)
	All	-174 (-5%)	59 (1.8%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.8.1.12 Stanislaus River at Confluence with the San Joaquin River**

2 **Table 23. Mean Monthly Flows (cfs) for Model Scenarios in the Stanislaus River at the Confluence with**
 3 **the San Joaquin River, Year-Round**

Alternative 8: Upstream—Stanislaus River at Confluence with the San Joaquin River				
Month	WYT^a	EXISTING CONDITIONS	NAA	A8_LLТ
JAN	W	956	885	885
	AN	843	963	963
	BN	416	369	367
	D	403	366	366
	C	314	265	265
	All	635	615	615
FEB	W	1,285	1,236	1,203
	AN	917	858	858
	BN	551	438	436
	D	562	359	359
	C	490	348	348
	All	827	723	714
MAR	W	2,063	2,217	2,212
	AN	1,295	956	956
	BN	732	548	548
	D	559	390	393
	C	541	444	450
	All	1,167	1,071	1,071
APR	W	2,054	1,965	1,965
	AN	1,719	1,535	1,517
	BN	1,494	1,211	1,210
	D	1,438	1,199	1,195
	C	823	670	662
	All	1,562	1,387	1,382
MAY	W	1,653	1,613	1,600
	AN	1,389	1,243	1,228
	BN	1,238	898	901
	D	1,140	916	925
	C	715	627	620
	All	1,271	1,125	1,118
JUN	W	1,608	1,763	1,787
	AN	1,134	985	977
	BN	663	568	611
	D	447	364	463
	C	332	296	364
	All	932	914	955
JUL	W	1,064	1,080	1,074
	AN	489	454	457
	BN	450	425	427
	D	398	359	359
	C	337	310	305
	All	607	590	588

Alternative 8: Upstream—Stanislaus River at Confluence with the San Joaquin River				
Month	WYT^a	EXISTING CONDITIONS	NAA	A8_LL1
AUG	W	930	717	717
	AN	476	454	454
	BN	423	418	418
	D	387	382	382
	C	341	338	323
	All	560	491	489
SEP	W	1,040	863	866
	AN	502	474	479
	BN	417	407	408
	D	395	390	391
	C	324	317	306
	All	595	533	533
OCT	W	897	845	849
	AN	873	822	831
	BN	903	844	842
	D	984	925	931
	C	689	612	632
	All	867	808	815
NOV	W	426	408	409
	AN	580	524	524
	BN	341	334	334
	D	345	321	322
	C	325	308	310
	All	410	386	386
DEC	W	512	429	418
	AN	722	697	696
	BN	331	353	323
	D	317	294	294
	C	289	272	272
	All	450	417	409

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 24. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Stanislaus River**
 2 **at the Confluence with the San Joaquin River, Year-Round**

Alternative 8: Upstream—Stanislaus River at Confluence with the San Joaquin River			
Month	WYT^b	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
JAN	W	-72 (-7.5%)	0 (0%)
	AN	120 (14.3%)	0 (0%)
	BN	-49 (-11.8%)	-2 (-0.5%)
	D	-37 (-9.1%)	0 (0%)
	C	-49 (-15.7%)	0 (-0.2%)
	All	-21 (-3.3%)	-1 (-0.1%)
FEB	W	-82 (-6.4%)	-33 (-2.6%)
	AN	-59 (-6.5%)	0 (0%)
	BN	-115 (-20.9%)	-2 (-0.5%)
	D	-203 (-36.1%)	0 (0.1%)
	C	-141 (-28.9%)	1 (0.2%)
	All	-113 (-13.7%)	-10 (-1.4%)
MAR	W	149 (7.2%)	-4 (-0.2%)
	AN	-339 (-26.2%)	0 (0%)
	BN	-184 (-25.2%)	0 (0%)
	D	-165 (-29.6%)	3 (0.8%)
	C	-90 (-16.7%)	7 (1.5%)
	All	-95 (-8.2%)	1 (0%)
APR	W	-89 (-4.3%)	0 (0%)
	AN	-202 (-11.7%)	-17 (-1.1%)
	BN	-284 (-19%)	-1 (-0.1%)
	D	-243 (-16.9%)	-3 (-0.3%)
	C	-160 (-19.5%)	-7 (-1.1%)
	All	-180 (-11.5%)	-5 (-0.4%)
MAY	W	-53 (-3.2%)	-14 (-0.8%)
	AN	-160 (-11.5%)	-14 (-1.2%)
	BN	-338 (-27.3%)	2 (0.3%)
	D	-216 (-18.9%)	9 (1%)
	C	-95 (-13.3%)	-7 (-1.2%)
	All	-153 (-12%)	-6 (-0.6%)
JUN	W	179 (11.1%)	24 (1.3%)
	AN	-157 (-13.8%)	-8 (-0.8%)
	BN	-52 (-7.8%)	43 (7.6%)
	D	16 (3.6%)	98 (27%)
	C	32 (9.6%)	68 (23%)
	All	22 (2.4%)	41 (4.5%)
JUL	W	10 (0.9%)	-7 (-0.6%)
	AN	-32 (-6.6%)	3 (0.7%)
	BN	-23 (-5.1%)	2 (0.4%)
	D	-39 (-9.9%)	-1 (-0.2%)
	C	-31 (-9.3%)	-5 (-1.6%)
	All	-19 (-3.2%)	-2 (-0.3%)

Alternative 8: Upstream—Stanislaus River at Confluence with the San Joaquin River			
Month	WYT^b	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
AUG	W	-212 (-22.8%)	0 (0%)
	AN	-22 (-4.6%)	0 (0%)
	BN	-4 (-1%)	0 (0%)
	D	-5 (-1.2%)	0 (0%)
	C	-18 (-5.3%)	-15 (-4.4%)
	All	-71 (-12.7%)	-3 (-0.6%)
SEP	W	-175 (-16.8%)	3 (0.3%)
	AN	-23 (-4.7%)	5 (1%)
	BN	-9 (-2.1%)	1 (0.3%)
	D	-5 (-1.2%)	0 (0.1%)
	C	-18 (-5.6%)	-10 (-3.3%)
	All	-61 (-10.3%)	0 (0%)
OCT	W	-48 (-5.4%)	4 (0.5%)
	AN	-42 (-4.9%)	8 (1%)
	BN	-61 (-6.8%)	-3 (-0.3%)
	D	-54 (-5.4%)	6 (0.6%)
	C	-57 (-8.3%)	19 (3.1%)
	All	-52 (-6%)	7 (0.9%)
NOV	W	-17 (-4.1%)	1 (0.2%)
	AN	-56 (-9.7%)	0 (0%)
	BN	-7 (-2.2%)	0 (0.1%)
	D	-22 (-6.5%)	1 (0.2%)
	C	-15 (-4.5%)	2 (0.6%)
	All	-24 (-5.8%)	1 (0.2%)
DEC	W	-95 (-18.4%)	-11 (-2.6%)
	AN	-26 (-3.6%)	0 (-0.1%)
	BN	-8 (-2.3%)	-30 (-8.6%)
	D	-23 (-7.3%)	0 (0%)
	C	-17 (-5.9%)	-1 (-0.2%)
	All	-41 (-9.1%)	-8 (-2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.8.2 In Delta**

2 **11C.8.2.1 OMR Flow (Old and Middle Rivers)**

3 **Table 25. Mean Monthly Flows (cfs) for Model Scenarios in the Old and Middle Rivers, Year-Round**

Alternative 8: In Delta—OMR Flow (Old and Middle Rivers)				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	-1,820	-1,606	3,539
	AN	-3,553	-3,446	1,211
	BN	-4,240	-3,803	961
	D	-4,664	-4,675	968
	C	-4,130	-3,684	838
	All	-3,449	-3,228	1,798
FEB	W	-2,365	-2,293	3,300
	AN	-3,274	-3,147	1,645
	BN	-3,437	-3,290	1,186
	D	-3,986	-3,502	972
	C	-3,191	-3,047	891
	All	-3,158	-2,964	1,833
MAR	W	-1,600	-1,454	4,320
	AN	-4,251	-3,815	1,840
	BN	-4,147	-3,834	909
	D	-2,852	-2,614	845
	C	-2,010	-1,636	526
	All	-2,758	-2,487	2,057
APR	W	2,431	2,415	5,117
	AN	1,058	787	2,653
	BN	677	214	2,070
	D	-268	-615	1,026
	C	-950	-845	482
	All	843	659	2,660
MAY	W	1,651	1,555	4,665
	AN	509	396	2,134
	BN	272	-237	1,578
	D	-647	-1,010	686
	C	-1,020	-911	348
	All	353	155	2,263
JUN	W	-4,164	-4,369	1,034
	AN	-4,761	-4,454	233
	BN	-4,154	-3,420	-132
	D	-3,301	-2,592	-495
	C	-2,250	-2,143	-597
	All	-3,780	-3,504	144

Alternative 8: In Delta—OMR Flow (Old and Middle Rivers)				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JUL	W	-8,959	-8,699	-3,169
	AN	-9,919	-7,962	-1,752
	BN	-10,853	-9,942	-2,648
	D	-10,891	-9,505	-3,552
	C	-8,058	-5,234	-4,072
	All	-9,715	-8,473	-3,089
AUG	W	-10,062	-10,518	-5,938
	AN	-10,348	-10,985	-5,296
	BN	-10,044	-9,374	-4,644
	D	-10,122	-7,259	-4,424
	C	-4,384	-3,192	-3,154
	All	-9,283	-8,604	-4,883
SEP	W	-9,317	-7,580	654
	AN	-9,163	-9,002	-354
	BN	-8,575	-8,392	-4,392
	D	-8,081	-5,165	-3,745
	C	-4,807	-3,966	-2,245
	All	-8,236	-6,868	-1,745
OCT	W	-8,347	-5,049	298
	AN	-7,643	-3,648	98
	BN	-7,804	-4,793	134
	D	-6,961	-4,103	96
	C	-6,440	-3,920	4
	All	-7,568	-4,427	153
NOV	W	-8,902	-6,527	501
	AN	-7,264	-6,003	260
	BN	-7,997	-5,542	300
	D	-7,136	-5,007	309
	C	-5,294	-4,389	227
	All	-7,592	-5,636	349
DEC	W	-5,542	-5,591	1,402
	AN	-6,987	-7,050	859
	BN	-7,304	-7,040	901
	D	-7,214	-7,006	866
	C	-6,166	-4,173	714
	All	-6,513	-6,155	1,019

1 **Table 26. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Old and Middle**
 2 **Rivers, Year-Round**

Alternative 8: In Delta—OMR Flow (Old and Middle Rivers)			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
JAN	W	5,358 (294.5%)	5,144 (320.4%)
	AN	4,764 (134.1%)	4,658 (135.1%)
	BN	5,200 (122.7%)	4,763 (125.3%)
	D	5,632 (120.8%)	5,643 (120.7%)
	C	4,968 (120.3%)	4,522 (122.7%)
	All	5,247 (152.1%)	5,027 (155.7%)
FEB	W	5,665 (239.5%)	5,593 (243.9%)
	AN	4,919 (150.2%)	4,792 (152.3%)
	BN	4,623 (134.5%)	4,477 (136.1%)
	D	4,957 (124.4%)	4,474 (127.7%)
	C	4,082 (127.9%)	3,938 (129.2%)
	All	4,991 (158.1%)	4,797 (161.9%)
MAR	W	5,920 (369.9%)	5,773 (397.2%)
	AN	6,091 (143.3%)	5,654 (148.2%)
	BN	5,056 (121.9%)	4,744 (123.7%)
	D	3,698 (129.6%)	3,459 (132.3%)
	C	2,536 (126.2%)	2,162 (132.1%)
	All	4,815 (174.6%)	4,544 (182.7%)
APR	W	2,686 (110.5%)	2,702 (111.9%)
	AN	1,595 (150.7%)	1,866 (237.1%)
	BN	1,393 (205.8%)	1,856 (867.6%)
	D	1,294 (483.1%)	1,642 (266.8%)
	C	1,433 (150.8%)	1,328 (157.1%)
	All	1,817 (215.4%)	2,002 (303.8%)
MAY	W	3,014 (182.6%)	3,110 (200%)
	AN	1,625 (319%)	1,739 (439.2%)
	BN	1,307 (480.9%)	1,816 (764.6%)
	D	1,333 (206.1%)	1,696 (168%)
	C	1,367 (134.1%)	1,259 (138.2%)
	All	1,909 (540.5%)	2,107 (1,355.6%)
JUN	W	5,198 (124.8%)	5,404 (123.7%)
	AN	4,994 (104.9%)	4,687 (105.2%)
	BN	4,023 (96.8%)	3,288 (96.1%)
	D	2,805 (85%)	2,096 (80.9%)
	C	1,653 (73.5%)	1,546 (72.1%)
	All	3,924 (103.8%)	3,647 (104.1%)
JUL	W	5,789 (64.6%)	5,530 (63.6%)
	AN	8,167 (82.3%)	6,211 (78%)
	BN	8,204 (75.6%)	7,294 (73.4%)
	D	7,339 (67.4%)	5,953 (62.6%)
	C	3,986 (49.5%)	1,162 (22.2%)
	All	6,626 (68.2%)	5,384 (63.5%)

Alternative 8: In Delta—OMR Flow (Old and Middle Rivers)			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
AUG	W	4,124 (41%)	4,580 (43.5%)
	AN	5,052 (48.8%)	5,688 (51.8%)
	BN	5,400 (53.8%)	4,730 (50.5%)
	D	5,698 (56.3%)	2,835 (39.1%)
	C	1,230 (28.1%)	38 (1.2%)
	All	4,400 (47.4%)	3,720 (43.2%)
SEP	W	9,971 (107%)	8,234 (108.6%)
	AN	8,809 (96.1%)	8,648 (96.1%)
	BN	4,183 (48.8%)	4,000 (47.7%)
	D	4,336 (53.7%)	1,420 (27.5%)
	C	2,562 (53.3%)	1,721 (43.4%)
	All	6,491 (78.8%)	5,123 (74.6%)
OCT	W	8,644 (103.6%)	5,346 (105.9%)
	AN	7,741 (101.3%)	3,746 (102.7%)
	BN	7,938 (101.7%)	4,927 (102.8%)
	D	7,057 (101.4%)	4,199 (102.3%)
	C	6,445 (100.1%)	3,925 (100.1%)
	All	7,721 (102%)	4,581 (103.5%)
NOV	W	9,403 (105.6%)	7,028 (107.7%)
	AN	7,524 (103.6%)	6,263 (104.3%)
	BN	8,296 (103.7%)	5,842 (105.4%)
	D	7,446 (104.3%)	5,316 (106.2%)
	C	5,521 (104.3%)	4,616 (105.2%)
	All	7,941 (104.6%)	5,985 (106.2%)
DEC	W	6,944 (125.3%)	6,993 (125.1%)
	AN	7,846 (112.3%)	7,909 (112.2%)
	BN	8,205 (112.3%)	7,942 (112.8%)
	D	8,079 (112%)	7,871 (112.4%)
	C	6,880 (111.6%)	4,887 (117.1%)
	All	7,531 (115.6%)	7,174 (116.5%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.8.2.2 Sacramento River Downstream of North Delta Diversion Facility**

2 **Table 27. Mean Monthly Flows (cfs) for Model Scenarios for the Sacramento River Downstream of the**
 3 **North Delta Diversion Facility, Year-Round**

Alternative 8: In Delta—Sacramento River Downstream of North Delta Diversion Facility				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	50,961	52,878	45,128
	AN	39,863	40,484	35,427
	BN	23,781	22,653	20,596
	D	17,444	17,451	15,365
	C	14,281	15,073	12,556
	All	31,971	32,595	28,220
FEB	W	57,314	59,847	49,638
	AN	45,676	47,786	41,167
	BN	31,934	31,592	27,639
	D	21,202	21,107	20,251
	C	14,708	14,291	14,534
	All	37,116	38,087	33,054
MAR	W	49,416	50,993	40,489
	AN	44,495	45,088	35,489
	BN	24,489	22,915	19,686
	D	20,656	20,650	20,361
	C	13,245	13,137	13,466
	All	32,834	33,134	27,833
APR	W	37,809	37,543	32,507
	AN	25,979	24,931	23,452
	BN	17,752	17,128	20,076
	D	12,990	12,904	16,150
	C	10,229	10,365	11,011
	All	23,169	22,826	22,323
MAY	W	31,948	24,500	22,834
	AN	21,021	18,657	18,114
	BN	14,227	12,394	15,228
	D	10,959	11,427	12,587
	C	7,749	8,011	9,114
	All	19,175	16,295	16,588
JUN	W	23,900	18,603	14,671
	AN	16,309	16,051	12,425
	BN	13,576	13,898	11,369
	D	12,222	12,656	10,356
	C	9,884	10,123	10,316
	All	16,412	14,880	12,194
JUL	W	19,876	21,425	12,814
	AN	21,574	22,727	11,657
	BN	20,953	20,513	10,312
	D	19,272	18,957	10,829
	C	15,397	13,767	10,587
	All	19,520	19,797	11,456

Alternative 8: In Delta—Sacramento River Downstream of North Delta Diversion Facility				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LLT
AUG	W	15,816	16,064	10,818
	AN	15,877	17,491	10,574
	BN	15,643	16,232	9,820
	D	16,965	14,351	10,283
	C	10,095	8,996	9,203
	All	15,210	14,891	10,258
SEP	W	18,254	27,212	19,758
	AN	13,198	21,006	12,835
	BN	12,427	12,306	7,697
	D	12,155	8,620	7,464
	C	8,485	7,292	6,696
	All	13,751	16,763	12,075
OCT	W	13,505	13,277	8,576
	AN	11,118	11,864	8,673
	BN	11,557	12,124	7,898
	D	10,279	10,487	7,558
	C	10,073	9,964	6,955
	All	11,613	11,776	8,014
NOV	W	19,447	19,285	14,687
	AN	15,309	15,925	11,148
	BN	12,574	13,037	9,318
	D	12,868	11,914	9,334
	C	9,633	9,295	7,750
	All	14,788	14,647	11,062
DEC	W	39,708	37,022	31,790
	AN	21,663	22,629	18,460
	BN	16,678	16,692	14,285
	D	15,442	15,159	13,025
	C	11,816	10,632	9,644
	All	23,727	22,784	19,491

1 **Table 28. Differences^a (Percent Differences) between Pairs of Model Scenarios for the Sacramento**
 2 **River Downstream of the North Delta Diversion Facility, Year-Round**

Alternative 8: In Delta—Sacramento River Downstream of North Delta Diversion Facility			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
JAN	W	-5,834 (-11.4%)	-7,750 (-14.7%)
	AN	-4,436 (-11.1%)	-5,057 (-12.5%)
	BN	-3,185 (-13.4%)	-2,057 (-9.1%)
	D	-2,079 (-11.9%)	-2,086 (-12%)
	C	-1,725 (-12.1%)	-2,517 (-16.7%)
	All	-3,751 (-11.7%)	-4,375 (-13.4%)
FEB	W	-7,676 (-13.4%)	-10,209 (-17.1%)
	AN	-4,509 (-9.9%)	-6,619 (-13.9%)
	BN	-4,294 (-13.4%)	-3,953 (-12.5%)
	D	-951 (-4.5%)	-856 (-4.1%)
	C	-174 (-1.2%)	243 (1.7%)
	All	-4,061 (-10.9%)	-5,033 (-13.2%)
MAR	W	-8,927 (-18.1%)	-10,504 (-20.6%)
	AN	-9,006 (-20.2%)	-9,599 (-21.3%)
	BN	-4,803 (-19.6%)	-3,229 (-14.1%)
	D	-296 (-1.4%)	-289 (-1.4%)
	C	221 (1.7%)	329 (2.5%)
	All	-5,001 (-15.2%)	-5,302 (-16%)
APR	W	-5,302 (-14%)	-5,037 (-13.4%)
	AN	-2,527 (-9.7%)	-1,479 (-5.9%)
	BN	2,324 (13.1%)	2,948 (17.2%)
	D	3,160 (24.3%)	3,246 (25.2%)
	C	783 (7.7%)	646 (6.2%)
	All	-846 (-3.7%)	-503 (-2.2%)
MAY	W	-9,114 (-28.5%)	-1,666 (-6.8%)
	AN	-2,906 (-13.8%)	-542 (-2.9%)
	BN	1,001 (7%)	2,834 (22.9%)
	D	1,628 (14.9%)	1,160 (10.2%)
	C	1,365 (17.6%)	1,103 (13.8%)
	All	-2,587 (-13.5%)	292 (1.8%)
JUN	W	-9,229 (-38.6%)	-3,933 (-21.1%)
	AN	-3,883 (-23.8%)	-3,626 (-22.6%)
	BN	-2,207 (-16.3%)	-2,529 (-18.2%)
	D	-1,867 (-15.3%)	-2,300 (-18.2%)
	C	433 (4.4%)	194 (1.9%)
	All	-4,218 (-25.7%)	-2,686 (-18.1%)
JUL	W	-7,062 (-35.5%)	-8,611 (-40.2%)
	AN	-9,917 (-46%)	-11,070 (-48.7%)
	BN	-10,641 (-50.8%)	-10,200 (-49.7%)
	D	-8,443 (-43.8%)	-8,129 (-42.9%)
	C	-4,810 (-31.2%)	-3,180 (-23.1%)
	All	-8,065 (-41.3%)	-8,342 (-42.1%)

Alternative 8: In Delta—Sacramento River Downstream of North Delta Diversion Facility			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
AUG	W	-4,998 (-31.6%)	-5,246 (-32.7%)
	AN	-5,303 (-33.4%)	-6,917 (-39.5%)
	BN	-5,822 (-37.2%)	-6,412 (-39.5%)
	D	-6,683 (-39.4%)	-4,068 (-28.3%)
	C	-892 (-8.8%)	206 (2.3%)
	All	-4,952 (-32.6%)	-4,633 (-31.1%)
SEP	W	1,504 (8.2%)	-7,455 (-27.4%)
	AN	-363 (-2.8%)	-8,171 (-38.9%)
	BN	-4,730 (-38.1%)	-4,609 (-37.5%)
	D	-4,691 (-38.6%)	-1,157 (-13.4%)
	C	-1,789 (-21.1%)	-597 (-8.2%)
	All	-1,675 (-12.2%)	-4,688 (-28%)
OCT	W	-4,928 (-36.5%)	-4,701 (-35.4%)
	AN	-2,446 (-22%)	-3,191 (-26.9%)
	BN	-3,660 (-31.7%)	-4,226 (-34.9%)
	D	-2,721 (-26.5%)	-2,929 (-27.9%)
	C	-3,119 (-31%)	-3,010 (-30.2%)
	All	-3,599 (-31%)	-3,762 (-31.9%)
NOV	W	-4,760 (-24.5%)	-4,597 (-23.8%)
	AN	-4,161 (-27.2%)	-4,777 (-30%)
	BN	-3,256 (-25.9%)	-3,719 (-28.5%)
	D	-3,534 (-27.5%)	-2,580 (-21.7%)
	C	-1,883 (-19.5%)	-1,546 (-16.6%)
	All	-3,725 (-25.2%)	-3,584 (-24.5%)
DEC	W	-7,918 (-19.9%)	-5,232 (-14.1%)
	AN	-3,203 (-14.8%)	-4,168 (-18.4%)
	BN	-2,392 (-14.3%)	-2,407 (-14.4%)
	D	-2,418 (-15.7%)	-2,134 (-14.1%)
	C	-2,172 (-18.4%)	-988 (-9.3%)
	All	-4,236 (-17.9%)	-3,293 (-14.5%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.8.2.3 Sacramento River at Rio Vista**2 **Table 29. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Rio Vista,**
3 **Year-Round**

Alternative 8: In Delta—Sacramento River at Rio Vista				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	71,111	78,551	77,391
	AN	41,963	42,919	42,656
	BN	20,943	19,991	20,710
	D	14,895	14,927	13,940
	C	11,853	12,601	10,881
	All	37,268	39,721	38,969
FEB	W	80,958	89,989	83,554
	AN	52,542	55,363	53,430
	BN	30,159	29,442	29,463
	D	19,320	19,422	20,680
	C	12,247	11,956	12,742
	All	44,541	47,675	45,746
MAR	W	63,763	68,663	62,296
	AN	46,750	48,513	43,620
	BN	20,980	19,562	19,557
	D	17,656	17,679	19,980
	C	10,710	10,684	11,250
	All	36,084	37,655	35,507
APR	W	38,214	38,422	35,961
	AN	22,726	21,855	23,221
	BN	14,652	14,207	18,332
	D	10,331	10,299	13,788
	C	7,665	7,816	8,436
	All	21,333	21,211	22,192
MAY	W	26,933	20,046	18,687
	AN	17,008	14,948	14,545
	BN	10,924	9,355	11,936
	D	8,135	8,564	9,609
	C	5,305	5,554	6,564
	All	15,456	12,833	13,162
JUN	W	16,557	11,418	8,177
	AN	9,887	9,220	6,292
	BN	7,001	7,241	5,544
	D	6,020	6,335	5,083
	C	4,333	4,513	4,901
	All	9,847	8,257	6,293
JUL	W	11,125	12,181	5,946
	AN	12,128	12,927	5,258
	BN	11,686	11,357	4,883
	D	10,523	10,307	5,000
	C	7,736	6,596	4,969
	All	10,739	10,921	5,313

Alternative 8: In Delta—Sacramento River at Rio Vista				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
AUG	W	8,507	8,650	5,100
	AN	8,538	9,648	5,000
	BN	8,371	8,753	4,591
	D	9,264	7,417	4,838
	C	4,390	3,615	4,119
	All	8,052	7,806	4,798
SEP	W	10,767	21,199	11,566
	AN	6,788	12,832	6,642
	BN	6,283	6,197	3,000
	D	6,116	3,644	3,000
	C	3,588	2,996	2,576
	All	7,348	10,896	6,187
OCT	W	8,718	8,287	4,431
	AN	6,183	7,207	4,343
	BN	6,258	6,976	3,298
	D	5,312	5,727	3,486
	C	5,215	4,969	2,635
	All	6,667	6,858	3,754
NOV	W	15,829	15,879	11,584
	AN	11,333	12,156	7,860
	BN	8,184	9,071	5,626
	D	8,733	8,061	5,718
	C	5,473	5,565	4,180
	All	10,793	10,946	7,651
DEC	W	43,367	40,431	39,460
	AN	19,040	19,936	16,539
	BN	13,987	14,049	12,283
	D	11,999	11,687	10,114
	C	8,131	7,186	6,427
	All	22,749	21,753	20,190

1 **Table 30. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento**
 2 **River at Rio Vista, Year-Round**

Alternative 8: In Delta—Sacramento River at Rio Vista			
Month	WYT	EXISTING CONDITIONS vs. A8_LLТ	NAA vs. A8_LLТ
JAN	W	6,279 (8.8%)	-1,161 (-1.5%)
	AN	693 (1.7%)	-263 (-0.6%)
	BN	-232 (-1.1%)	719 (3.6%)
	D	-954 (-6.4%)	-987 (-6.6%)
	C	-972 (-8.2%)	-1,721 (-13.7%)
	All	1,701 (4.6%)	-752 (-1.9%)
FEB	W	2,596 (3.2%)	-6,435 (-7.2%)
	AN	888 (1.7%)	-1,932 (-3.5%)
	BN	-695 (-2.3%)	21 (0.1%)
	D	1,361 (7%)	1,258 (6.5%)
	C	496 (4%)	787 (6.6%)
	All	1,206 (2.7%)	-1,928 (-4%)
MAR	W	-1,468 (-2.3%)	-6,367 (-9.3%)
	AN	-3,130 (-6.7%)	-4,893 (-10.1%)
	BN	-1,423 (-6.8%)	-5 (0%)
	D	2,324 (13.2%)	2,301 (13%)
	C	540 (5%)	567 (5.3%)
	All	-577 (-1.6%)	-2,148 (-5.7%)
APR	W	-2,252 (-5.9%)	-2,461 (-6.4%)
	AN	495 (2.2%)	1,366 (6.3%)
	BN	3,680 (25.1%)	4,125 (29%)
	D	3,457 (33.5%)	3,490 (33.9%)
	C	771 (10.1%)	619 (7.9%)
	All	858 (4%)	980 (4.6%)
MAY	W	-8,245 (-30.6%)	-1,359 (-6.8%)
	AN	-2,463 (-14.5%)	-403 (-2.7%)
	BN	1,012 (9.3%)	2,581 (27.6%)
	D	1,475 (18.1%)	1,046 (12.2%)
	C	1,259 (23.7%)	1,010 (18.2%)
	All	-2,294 (-14.8%)	328 (2.6%)
JUN	W	-8,380 (-50.6%)	-3,241 (-28.4%)
	AN	-3,595 (-36.4%)	-2,928 (-31.8%)
	BN	-1,456 (-20.8%)	-1,696 (-23.4%)
	D	-937 (-15.6%)	-1,252 (-19.8%)
	C	568 (13.1%)	388 (8.6%)
	All	-3,554 (-36.1%)	-1,964 (-23.8%)
JUL	W	-5,179 (-46.6%)	-6,236 (-51.2%)
	AN	-6,870 (-56.6%)	-7,669 (-59.3%)
	BN	-6,803 (-58.2%)	-6,474 (-57%)
	D	-5,523 (-52.5%)	-5,307 (-51.5%)
	C	-2,767 (-35.8%)	-1,627 (-24.7%)
	All	-5,426 (-50.5%)	-5,608 (-51.3%)

Alternative 8: In Delta—Sacramento River at Rio Vista			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	-3,407 (-40%)	-3,550 (-41%)
	AN	-3,538 (-41.4%)	-4,648 (-48.2%)
	BN	-3,779 (-45.1%)	-4,161 (-47.5%)
	D	-4,426 (-47.8%)	-2,579 (-34.8%)
	C	-271 (-6.2%)	504 (13.9%)
	All	-3,254 (-40.4%)	-3,008 (-38.5%)
SEP	W	799 (7.4%)	-9,633 (-45.4%)
	AN	-146 (-2.2%)	-6,190 (-48.2%)
	BN	-3,283 (-52.3%)	-3,197 (-51.6%)
	D	-3,116 (-50.9%)	-644 (-17.7%)
	C	-1,013 (-28.2%)	-420 (-14%)
	All	-1,161 (-15.8%)	-4,709 (-43.2%)
OCT	W	-4,287 (-49.2%)	-3,856 (-46.5%)
	AN	-1,840 (-29.8%)	-2,864 (-39.7%)
	BN	-2,960 (-47.3%)	-3,678 (-52.7%)
	D	-1,826 (-34.4%)	-2,241 (-39.1%)
	C	-2,580 (-49.5%)	-2,334 (-47%)
	All	-2,912 (-43.7%)	-3,103 (-45.3%)
NOV	W	-4,245 (-26.8%)	-4,295 (-27.1%)
	AN	-3,473 (-30.6%)	-4,296 (-35.3%)
	BN	-2,558 (-31.3%)	-3,444 (-38%)
	D	-3,014 (-34.5%)	-2,343 (-29.1%)
	C	-1,293 (-23.6%)	-1,385 (-24.9%)
	All	-3,142 (-29.1%)	-3,296 (-30.1%)
DEC	W	-3,907 (-9%)	-971 (-2.4%)
	AN	-2,502 (-13.1%)	-3,397 (-17%)
	BN	-1,704 (-12.2%)	-1,766 (-12.6%)
	D	-1,885 (-15.7%)	-1,573 (-13.5%)
	C	-1,705 (-21%)	-759 (-10.6%)
	All	-2,559 (-11.2%)	-1,563 (-7.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.8.2.4 Delta Outflow**

2 **Table 31. Mean Monthly Flows (cfs) for Model Scenarios at the Delta Outflow, Year-Round**

Alternative 8: In Delta—Delta Outflow				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	85,900	94,620	98,110
	AN	49,448	51,100	55,237
	BN	22,968	22,301	27,942
	D	14,736	14,732	19,582
	C	11,343	12,651	15,420
	All	43,289	46,372	50,517
FEB	W	96,835	107,085	105,369
	AN	62,321	65,873	68,322
	BN	36,766	36,084	40,504
	D	20,915	21,461	27,556
	C	12,991	12,798	17,874
	All	52,594	56,338	58,988
MAR	W	78,956	84,471	83,030
	AN	54,171	56,737	56,840
	BN	24,029	22,467	27,303
	D	19,880	19,985	26,181
	C	11,911	12,215	15,362
	All	43,172	45,097	47,301
APR	W	54,394	54,562	54,395
	AN	31,975	30,576	33,786
	BN	21,928	20,641	27,172
	D	14,142	13,413	19,140
	C	9,053	9,294	11,354
	All	30,099	29,603	32,694
MAY	W	41,040	32,880	34,707
	AN	24,200	21,709	23,131
	BN	16,299	13,596	18,491
	D	10,487	10,375	13,443
	C	6,000	6,286	8,826
	All	22,517	19,121	21,789
JUN	W	23,451	15,640	17,629
	AN	11,801	10,676	12,272
	BN	8,004	8,943	10,036
	D	6,636	7,689	8,039
	C	5,322	5,632	7,590
	All	12,765	10,560	11,975
JUL	W	11,441	11,407	8,782
	AN	9,430	12,225	8,017
	BN	7,151	7,668	5,908
	D	5,024	6,448	5,072
	C	4,238	5,832	4,083
	All	7,951	8,984	6,677

Alternative 8: In Delta—Delta Outflow				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
AUG	W	5,341	4,308	4,000
	AN	4,000	4,713	4,003
	BN	4,000	5,129	3,995
	D	4,829	5,348	4,539
	C	4,077	4,433	4,746
	All	4,618	4,754	4,227
SEP	W	9,569	20,078	21,436
	AN	3,672	11,581	12,805
	BN	3,445	3,428	3,246
	D	3,350	3,021	3,557
	C	3,000	3,036	4,225
	All	5,334	9,754	10,624
OCT	W	6,487	9,520	10,698
	AN	4,021	8,982	9,923
	BN	4,477	8,054	9,301
	D	4,157	7,294	9,005
	C	4,158	6,607	7,917
	All	4,931	8,276	9,567
NOV	W	14,232	15,987	18,783
	AN	9,683	11,529	13,443
	BN	5,864	8,681	11,211
	D	6,943	8,052	11,112
	C	5,045	5,725	8,995
	All	9,193	10,844	13,593
DEC	W	48,185	45,191	51,194
	AN	18,014	19,119	23,702
	BN	11,950	12,231	18,694
	D	8,884	8,828	15,420
	C	5,531	6,560	10,783
	All	22,714	22,113	27,855

1 **Table 32. Differences^a (Percent Differences) between Pairs of Model Scenarios at the Delta Outflow,**
 2 **Year-Round**

Alternative 8: In Delta—Delta Outflow			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
JAN	W	12,210 (14.2%)	3,490 (3.7%)
	AN	5,790 (11.7%)	4,137 (8.1%)
	BN	4,974 (21.7%)	5,641 (25.3%)
	D	4,846 (32.9%)	4,850 (32.9%)
	C	4,077 (35.9%)	2,769 (21.9%)
	All	7,228 (16.7%)	4,145 (8.9%)
FEB	W	8,534 (8.8%)	-1,716 (-1.6%)
	AN	6,000 (9.6%)	2,449 (3.7%)
	BN	3,737 (10.2%)	4,419 (12.2%)
	D	6,641 (31.7%)	6,095 (28.4%)
	C	4,883 (37.6%)	5,076 (39.7%)
	All	6,394 (12.2%)	2,649 (4.7%)
MAR	W	4,075 (5.2%)	-1,441 (-1.7%)
	AN	2,669 (4.9%)	103 (0.2%)
	BN	3,274 (13.6%)	4,836 (21.5%)
	D	6,300 (31.7%)	6,195 (31%)
	C	3,451 (29%)	3,147 (25.8%)
	All	4,130 (9.6%)	2,204 (4.9%)
APR	W	1 (0%)	-167 (-0.3%)
	AN	1,811 (5.7%)	3,210 (10.5%)
	BN	5,244 (23.9%)	6,531 (31.6%)
	D	4,998 (35.3%)	5,726 (42.7%)
	C	2,301 (25.4%)	2,060 (22.2%)
	All	2,595 (8.6%)	3,090 (10.4%)
MAY	W	-6,332 (-15.4%)	1,827 (5.6%)
	AN	-1,068 (-4.4%)	1,422 (6.6%)
	BN	2,192 (13.4%)	4,895 (36%)
	D	2,955 (28.2%)	3,067 (29.6%)
	C	2,826 (47.1%)	2,540 (40.4%)
	All	-728 (-3.2%)	2,668 (14%)
JUN	W	-5,821 (-24.8%)	1,990 (12.7%)
	AN	471 (4%)	1,596 (15%)
	BN	2,032 (25.4%)	1,093 (12.2%)
	D	1,404 (21.2%)	350 (4.6%)
	C	2,268 (42.6%)	1,958 (34.8%)
	All	-790 (-6.2%)	1,414 (13.4%)
JUL	W	-2,659 (-23.2%)	-2,624 (-23%)
	AN	-1,414 (-15%)	-4,208 (-34.4%)
	BN	-1,243 (-17.4%)	-1,760 (-23%)
	D	49 (1%)	-1,376 (-21.3%)
	C	-154 (-3.6%)	-1,749 (-30%)
	All	-1,274 (-16%)	-2,306 (-25.7%)

Alternative 8: In Delta—Delta Outflow			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	-1,341 (-25.1%)	-308 (-7.2%)
	AN	3 (0.1%)	-711 (-15.1%)
	BN	-5 (-0.1%)	-1,134 (-22.1%)
	D	-290 (-6%)	-809 (-15.1%)
	C	669 (16.4%)	313 (7.1%)
	All	-391 (-8.5%)	-527 (-11.1%)
SEP	W	11,867 (124%)	1,358 (6.8%)
	AN	9,133 (248.7%)	1,224 (10.6%)
	BN	-199 (-5.8%)	-182 (-5.3%)
	D	207 (6.2%)	535 (17.7%)
	C	1,225 (40.8%)	1,189 (39.2%)
	All	5,290 (99.2%)	870 (8.9%)
OCT	W	4,211 (64.9%)	1,178 (12.4%)
	AN	5,902 (146.8%)	941 (10.5%)
	BN	4,825 (107.8%)	1,247 (15.5%)
	D	4,847 (116.6%)	1,711 (23.5%)
	C	3,759 (90.4%)	1,310 (19.8%)
	All	4,637 (94%)	1,291 (15.6%)
NOV	W	4,551 (32%)	2,796 (17.5%)
	AN	3,760 (38.8%)	1,915 (16.6%)
	BN	5,346 (91.2%)	2,529 (29.1%)
	D	4,169 (60.1%)	3,059 (38%)
	C	3,951 (78.3%)	3,270 (57.1%)
	All	4,399 (47.9%)	2,749 (25.3%)
DEC	W	3,009 (6.2%)	6,003 (13.3%)
	AN	5,688 (31.6%)	4,583 (24%)
	BN	6,743 (56.4%)	6,462 (52.8%)
	D	6,536 (73.6%)	6,592 (74.7%)
	C	5,252 (94.9%)	4,222 (64.4%)
	All	5,141 (22.6%)	5,742 (26%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.8.2.5 San Joaquin River at Vernalis**

2 **Table 33. Mean Monthly Flows (cfs) for Model Scenarios in the San Joaquin River at Vernalis,**
 3 **Year-Round**

Alternative 8: In Delta—San Joaquin River at Vernalis				
Month	WYT^a	EXISTING CONDITIONS	NAA	A8_LLТ
JAN	W	9,089	9,681	9,785
	AN	5,447	6,011	6,077
	BN	2,326	2,220	2,226
	D	2,270	2,202	2,239
	C	1,667	1,592	1,572
	All	4,777	5,018	5,064
FEB	W	12,750	13,191	13,161
	AN	6,965	6,721	6,704
	BN	2,983	2,841	2,837
	D	2,590	2,269	2,270
	C	2,120	1,941	1,942
	All	6,388	6,361	6,348
MAR	W	14,374	15,235	15,244
	AN	6,284	6,364	6,335
	BN	2,949	2,476	2,476
	D	2,479	2,146	2,145
	C	1,813	1,688	1,686
	All	6,648	6,763	6,759
APR	W	11,955	12,457	12,455
	AN	6,014	6,042	6,024
	BN	4,490	3,922	3,919
	D	3,656	3,112	3,106
	C	1,983	1,796	1,790
	All	6,351	6,291	6,284
MAY	W	12,109	12,632	12,621
	AN	5,381	5,092	5,085
	BN	4,074	3,657	3,653
	D	3,308	2,823	2,817
	C	1,964	1,798	1,791
	All	6,148	6,069	6,061
JUN	W	11,058	6,820	6,843
	AN	2,965	2,678	2,658
	BN	2,051	1,870	1,864
	D	1,537	1,291	1,284
	C	1,020	956	950
	All	4,583	3,206	3,206
JUL	W	7,654	4,345	4,337
	AN	1,958	1,801	1,798
	BN	1,491	1,381	1,371
	D	1,295	1,100	1,089
	C	898	858	851
	All	3,239	2,184	2,176

Alternative 8: In Delta—San Joaquin River at Vernalis				
Month	WYT^a	EXISTING CONDITIONS	NAA	A8_LL^T
AUG	W	3,539	2,645	2,643
	AN	2,000	1,699	1,697
	BN	1,460	1,375	1,368
	D	1,375	1,225	1,219
	C	1,007	987	970
	All	2,072	1,710	1,704
SEP	W	3,519	3,127	3,126
	AN	2,355	2,164	2,163
	BN	1,829	1,748	1,745
	D	1,796	1,643	1,640
	C	1,402	1,378	1,366
	All	2,338	2,144	2,140
OCT	W	2,760	2,726	2,722
	AN	2,745	2,595	2,584
	BN	2,502	2,348	2,343
	D	2,945	2,790	2,790
	C	2,213	2,031	2,030
	All	2,639	2,515	2,511
NOV	W	2,534	2,411	2,418
	AN	3,182	3,193	3,083
	BN	2,150	1,997	2,064
	D	2,272	2,217	2,253
	C	1,968	1,898	1,897
	All	2,448	2,367	2,364
DEC	W	4,370	4,504	4,584
	AN	4,711	4,567	4,654
	BN	2,182	2,065	2,079
	D	2,129	2,166	2,169
	C	1,729	1,694	1,680
	All	3,219	3,211	3,251

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 34. Differences^a (Percent Differences) between Pairs of Model Scenarios in the San Joaquin**
 2 **River at Vernalis, Year-Round**

Alternative 8: In Delta—San Joaquin River at Vernalis			
Month	WYT ^b	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
JAN	W	696 (7.7%)	104 (1.1%)
	AN	630 (11.6%)	66 (1.1%)
	BN	-100 (-4.3%)	5 (0.2%)
	D	-31 (-1.4%)	38 (1.7%)
	C	-95 (-5.7%)	-20 (-1.3%)
	All	287 (6%)	46 (0.9%)
FEB	W	411 (3.2%)	-30 (-0.2%)
	AN	-261 (-3.8%)	-17 (-0.3%)
	BN	-145 (-4.9%)	-3 (-0.1%)
	D	-321 (-12.4%)	0 (0%)
	C	-178 (-8.4%)	1 (0%)
	All	-39 (-0.6%)	-13 (-0.2%)
MAR	W	869 (6%)	8 (0.1%)
	AN	51 (0.8%)	-29 (-0.5%)
	BN	-473 (-16%)	0 (0%)
	D	-334 (-13.5%)	-1 (0%)
	C	-127 (-7%)	-1 (-0.1%)
	All	112 (1.7%)	-4 (-0.1%)
APR	W	501 (4.2%)	-2 (0%)
	AN	10 (0.2%)	-18 (-0.3%)
	BN	-571 (-12.7%)	-3 (-0.1%)
	D	-550 (-15%)	-5 (-0.2%)
	C	-193 (-9.7%)	-6 (-0.3%)
	All	-67 (-1.1%)	-6 (-0.1%)
MAY	W	512 (4.2%)	-11 (-0.1%)
	AN	-297 (-5.5%)	-7 (-0.1%)
	BN	-420 (-10.3%)	-4 (-0.1%)
	D	-491 (-14.8%)	-6 (-0.2%)
	C	-174 (-8.9%)	-7 (-0.4%)
	All	-86 (-1.4%)	-7 (-0.1%)
JUN	W	-4,215 (-38.1%)	23 (0.3%)
	AN	-306 (-10.3%)	-20 (-0.7%)
	BN	-187 (-9.1%)	-6 (-0.3%)
	D	-253 (-16.5%)	-7 (-0.5%)
	C	-70 (-6.9%)	-6 (-0.6%)
	All	-1,377 (-30%)	0 (0%)
JUL	W	-3,317 (-43.3%)	-8 (-0.2%)
	AN	-160 (-8.2%)	-3 (-0.2%)
	BN	-120 (-8%)	-9 (-0.7%)
	D	-206 (-15.9%)	-11 (-1%)
	C	-48 (-5.3%)	-7 (-0.9%)
	All	-1,063 (-32.8%)	-8 (-0.4%)

Alternative 8: In Delta—San Joaquin River at Vernalis			
Month	WYT^b	EXISTING CONDITIONS vs. A8_LL1T	NAA vs. A8_LL1T
AUG	W	-896 (-25.3%)	-2 (-0.1%)
	AN	-304 (-15.2%)	-2 (-0.1%)
	BN	-92 (-6.3%)	-6 (-0.5%)
	D	-155 (-11.3%)	-6 (-0.5%)
	C	-37 (-3.7%)	-17 (-1.7%)
	All	-368 (-17.8%)	-6 (-0.4%)
SEP	W	-393 (-11.2%)	-1 (0%)
	AN	-191 (-8.1%)	-1 (-0.1%)
	BN	-84 (-4.6%)	-3 (-0.2%)
	D	-156 (-8.7%)	-3 (-0.2%)
	C	-36 (-2.6%)	-12 (-0.8%)
	All	-197 (-8.4%)	-4 (-0.2%)
OCT	W	-37 (-1.3%)	-3 (-0.1%)
	AN	-161 (-5.9%)	-11 (-0.4%)
	BN	-159 (-6.4%)	-5 (-0.2%)
	D	-155 (-5.2%)	0 (0%)
	C	-182 (-8.2%)	-1 (0%)
	All	-128 (-4.8%)	-4 (-0.2%)
NOV	W	-116 (-4.6%)	6 (0.3%)
	AN	-99 (-3.1%)	-110 (-3.4%)
	BN	-86 (-4%)	67 (3.4%)
	D	-19 (-0.9%)	35 (1.6%)
	C	-71 (-3.6%)	-1 (0%)
	All	-84 (-3.4%)	-3 (-0.1%)
DEC	W	214 (4.9%)	80 (1.8%)
	AN	-57 (-1.2%)	87 (1.9%)
	BN	-103 (-4.7%)	14 (0.7%)
	D	40 (1.9%)	3 (0.1%)
	C	-49 (-2.8%)	-14 (-0.8%)
	All	32 (1%)	40 (1.3%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.8.2.6 Mokelumne River at the Delta**

2 **Table 35. Mean Monthly Flows (cfs) for Model Scenarios in the Mokelumne River at the Delta,**
 3 **Year-Round**

Alternative 8: In Delta—Mokelumne River at the Delta				
Month	WYT^a	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	3,071	3,634	3,634
	AN	1,707	1,876	1,876
	BN	597	617	617
	D	495	493	493
	C	280	281	281
	All	1,460	1,660	1,660
FEB	W	3,290	3,781	3,781
	AN	2,525	2,913	2,913
	BN	1,011	1,035	1,035
	D	695	678	678
	C	426	442	442
	All	1,809	2,033	2,033
MAR	W	3,179	3,336	3,336
	AN	1,582	1,639	1,639
	BN	1,181	1,140	1,140
	D	754	691	691
	C	595	580	580
	All	1,662	1,700	1,700
APR	W	2,819	2,694	2,694
	AN	1,619	1,424	1,424
	BN	1,243	1,068	1,068
	D	623	550	550
	C	340	311	311
	All	1,503	1,384	1,384
MAY	W	3,170	2,885	2,885
	AN	1,439	1,179	1,179
	BN	976	812	812
	D	406	333	333
	C	181	170	170
	All	1,463	1,289	1,289
JUN	W	1,755	1,415	1,415
	AN	851	631	631
	BN	471	366	366
	D	93	76	76
	C	52	44	44
	All	779	616	616
JUL	W	772	469	469
	AN	347	167	167
	BN	123	70	70
	D	7	6	6
	C	3	3	3
	All	315	183	183

Alternative 8: In Delta—Mokelumne River at the Delta				
Month	WYT^a	EXISTING CONDITIONS	NAA	A8_LL_T
AUG	W	703	346	346
	AN	328	216	216
	BN	112	71	71
	D	4	4	4
	C	2	2	2
	All	289	156	156
SEP	W	702	497	497
	AN	333	259	259
	BN	114	91	91
	D	9	9	9
	C	5	5	5
	All	291	213	213
OCT	W	161	147	147
	AN	178	180	180
	BN	154	144	144
	D	180	160	160
	C	117	123	123
	All	158	150	150
NOV	W	487	431	431
	AN	912	855	855
	BN	347	301	301
	D	380	327	327
	C	195	186	186
	All	474	429	429
DEC	W	1,504	1,732	1,732
	AN	1,411	1,628	1,628
	BN	447	472	472
	D	384	374	374
	C	204	209	209
	All	887	999	999

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 36. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Mokelumne**
 2 **River at the Delta, Year-Round**

Alternative 8: In Delta—Mokelumne River at the Delta			
Month	WYT ^b	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
JAN	W	563 (18.3%)	0 (0%)
	AN	169 (9.9%)	0 (0%)
	BN	21 (3.4%)	0 (0%)
	D	-2 (-0.5%)	0 (0%)
	C	1 (0.3%)	0 (0%)
	All	201 (13.8%)	0 (0%)
FEB	W	491 (14.9%)	0 (0%)
	AN	388 (15.4%)	0 (0%)
	BN	24 (2.4%)	0 (0%)
	D	-17 (-2.4%)	0 (0%)
	C	15 (3.5%)	0 (0%)
	All	223 (12.3%)	0 (0%)
MAR	W	158 (5%)	0 (0%)
	AN	57 (3.6%)	0 (0%)
	BN	-41 (-3.4%)	0 (0%)
	D	-63 (-8.3%)	0 (0%)
	C	-15 (-2.5%)	0 (0%)
	All	38 (2.3%)	0 (0%)
APR	W	-125 (-4.4%)	0 (0%)
	AN	-194 (-12%)	0 (0%)
	BN	-175 (-14.1%)	0 (0%)
	D	-73 (-11.7%)	0 (0%)
	C	-29 (-8.7%)	0 (0%)
	All	-120 (-8%)	0 (0%)
MAY	W	-284 (-9%)	0 (0%)
	AN	-260 (-18.1%)	0 (0%)
	BN	-164 (-16.8%)	0 (0%)
	D	-72 (-17.8%)	0 (0%)
	C	-11 (-6.1%)	0 (0%)
	All	-174 (-11.9%)	0 (0%)
JUN	W	-339 (-19.3%)	0 (0%)
	AN	-220 (-25.8%)	0 (0%)
	BN	-105 (-22.3%)	0 (0%)
	D	-17 (-18.8%)	0 (0%)
	C	-8 (-14.7%)	0 (0%)
	All	-163 (-20.9%)	0 (0%)
JUL	W	-303 (-39.3%)	0 (0%)
	AN	-180 (-51.8%)	0 (0%)
	BN	-54 (-43.4%)	0 (0%)
	D	0 (-3.1%)	0 (0%)
	C	0 (-4.4%)	0 (0%)
	All	-132 (-42%)	0 (0%)

Alternative 8: In Delta—Mokelumne River at the Delta			
Month	WYT^b	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	-357 (-50.8%)	0 (0%)
	AN	-113 (-34.3%)	0 (0%)
	BN	-41 (-36.5%)	0 (0%)
	D	0 (-0.5%)	0 (0%)
	C	0 (-3.1%)	0 (0%)
	All	-133 (-46.1%)	0 (0%)
SEP	W	-205 (-29.3%)	0 (0%)
	AN	-74 (-22.2%)	0 (0%)
	BN	-23 (-20.5%)	0 (0%)
	D	-1 (-5.9%)	0 (0%)
	C	0 (4.6%)	0 (0%)
	All	-78 (-26.9%)	0 (0%)
OCT	W	-14 (-8.7%)	0 (0%)
	AN	2 (1.1%)	0 (0%)
	BN	-10 (-6.6%)	0 (0%)
	D	-20 (-11.1%)	0 (0%)
	C	6 (4.7%)	0 (0%)
	All	-7 (-4.7%)	0 (0%)
NOV	W	-56 (-11.5%)	0 (0%)
	AN	-57 (-6.3%)	0 (0%)
	BN	-46 (-13.2%)	0 (0%)
	D	-53 (-13.9%)	0 (0%)
	C	-9 (-4.6%)	0 (0%)
	All	-45 (-9.5%)	0 (0%)
DEC	W	228 (15.2%)	0 (0%)
	AN	217 (15.4%)	0 (0%)
	BN	25 (5.5%)	0 (0%)
	D	-10 (-2.6%)	0 (0%)
	C	6 (2.9%)	0 (0%)
	All	113 (12.7%)	0 (0%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.9 Alternative 9**2 **11C.9.1 Upstream**3 **11C.9.1.1 Sacramento River at Keswick**4 **Table 1. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Keswick,**
5 **Year-Round**

Alternative 9: Upstream—Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	16,526	18,233	18,566
	AN	8,318	8,205	8,314
	BN	4,502	4,184	4,329
	D	3,996	4,096	3,592
	C	3,490	4,238	3,460
	All	8,614	9,215	9,138
FEB	W	18,577	20,853	20,997
	AN	14,409	15,297	15,399
	BN	5,981	5,544	6,237
	D	3,684	3,410	3,327
	C	3,599	3,372	3,364
	All	10,355	11,039	11,199
MAR	W	16,200	17,065	17,067
	AN	9,131	8,818	8,477
	BN	5,200	4,318	4,165
	D	3,903	3,814	3,925
	C	3,487	3,583	3,592
	All	8,728	8,800	8,750
APR	W	9,418	9,131	8,988
	AN	6,182	5,536	5,776
	BN	5,426	5,009	5,028
	D	5,803	5,533	6,034
	C	6,472	6,550	6,590
	All	7,038	6,733	6,843
MAY	W	9,508	7,149	7,146
	AN	7,709	7,783	7,824
	BN	7,193	6,272	7,047
	D	7,349	7,681	9,344
	C	6,715	7,316	7,568
	All	7,967	7,233	7,773
JUN	W	10,375	10,274	10,261
	AN	11,147	12,032	12,245
	BN	10,758	10,947	10,744
	D	11,224	11,898	12,063
	C	10,392	11,350	11,081
	All	10,742	11,160	11,149

Alternative 9: Upstream—Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LLТ
JUL	W	12,779	14,098	13,972
	AN	14,056	15,098	14,835
	BN	12,965	13,177	12,784
	D	13,302	13,727	13,329
	C	12,849	11,935	11,550
	All	13,123	13,689	13,400
AUG	W	11,029	10,491	10,219
	AN	10,449	11,641	10,847
	BN	10,139	10,261	9,946
	D	10,627	10,986	10,521
	C	9,473	7,348	7,970
	All	10,476	10,269	10,002
SEP	W	9,385	12,833	13,633
	AN	5,862	9,898	9,876
	BN	5,492	5,601	5,731
	D	5,985	4,469	4,359
	C	5,563	4,368	4,395
	All	6,899	8,094	8,346
OCT	W	6,886	7,034	6,944
	AN	7,145	7,152	6,311
	BN	6,396	7,072	6,070
	D	6,128	6,494	6,394
	C	5,902	5,752	5,112
	All	6,530	6,752	6,313
NOV	W	6,672	7,539	7,461
	AN	6,224	7,134	7,223
	BN	5,088	5,936	6,516
	D	5,669	5,406	5,262
	C	4,822	4,710	5,240
	All	5,845	6,324	6,457
DEC	W	12,766	11,022	10,797
	AN	5,531	5,377	5,243
	BN	5,413	5,195	5,344
	D	4,215	3,936	3,892
	C	3,828	3,582	4,001
	All	7,267	6,557	6,543

1 **Table 2. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Keswick, Year-Round**

Alternative 9: Upstream—Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1T	NAA vs. A9_LL1T
JAN	W	2,040 (12.3%)	333 (1.8%)
	AN	-3 (0%)	110 (1.3%)
	BN	-172 (-3.8%)	146 (3.5%)
	D	-404 (-10.1%)	-504 (-12.3%)
	C	-31 (-0.9%)	-778 (-18.4%)
	All	524 (6.1%)	-78 (-0.8%)
FEB	W	2,420 (13%)	144 (0.7%)
	AN	989 (6.9%)	102 (0.7%)
	BN	256 (4.3%)	693 (12.5%)
	D	-356 (-9.7%)	-83 (-2.4%)
	C	-235 (-6.5%)	-9 (-0.3%)
	All	843 (8.1%)	159 (1.4%)
MAR	W	868 (5.4%)	2 (0%)
	AN	-654 (-7.2%)	-341 (-3.9%)
	BN	-1,034 (-19.9%)	-153 (-3.5%)
	D	22 (0.6%)	111 (2.9%)
	C	105 (3%)	8 (0.2%)
	All	23 (0.3%)	-50 (-0.6%)
APR	W	-429 (-4.6%)	-142 (-1.6%)
	AN	-406 (-6.6%)	241 (4.3%)
	BN	-398 (-7.3%)	19 (0.4%)
	D	231 (4%)	501 (9%)
	C	119 (1.8%)	40 (0.6%)
	All	-195 (-2.8%)	109 (1.6%)
MAY	W	-2,362 (-24.8%)	-3 (0%)
	AN	115 (1.5%)	41 (0.5%)
	BN	-145 (-2%)	776 (12.4%)
	D	1,996 (27.2%)	1,663 (21.6%)
	C	853 (12.7%)	253 (3.5%)
	All	-194 (-2.4%)	540 (7.5%)
JUN	W	-115 (-1.1%)	-14 (-0.1%)
	AN	1,098 (9.8%)	213 (1.8%)
	BN	-15 (-0.1%)	-204 (-1.9%)
	D	840 (7.5%)	165 (1.4%)
	C	689 (6.6%)	-269 (-2.4%)
	All	407 (3.8%)	-11 (-0.1%)
JUL	W	1,193 (9.3%)	-125 (-0.9%)
	AN	779 (5.5%)	-263 (-1.7%)
	BN	-181 (-1.4%)	-393 (-3%)
	D	27 (0.2%)	-398 (-2.9%)
	C	-1,300 (-10.1%)	-385 (-3.2%)
	All	277 (2.1%)	-289 (-2.1%)

Alternative 9: Upstream—Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
AUG	W	-810 (-7.3%)	-272 (-2.6%)
	AN	399 (3.8%)	-794 (-6.8%)
	BN	-193 (-1.9%)	-315 (-3.1%)
	D	-106 (-1%)	-465 (-4.2%)
	C	-1,502 (-15.9%)	623 (8.5%)
	All	-475 (-4.5%)	-267 (-2.6%)
SEP	W	4,248 (45.3%)	800 (6.2%)
	AN	4,013 (68.5%)	-22 (-0.2%)
	BN	239 (4.3%)	130 (2.3%)
	D	-1,627 (-27.2%)	-110 (-2.5%)
	C	-1,168 (-21%)	27 (0.6%)
	All	1,447 (21%)	252 (3.1%)
OCT	W	58 (0.8%)	-91 (-1.3%)
	AN	-833 (-11.7%)	-840 (-11.7%)
	BN	-326 (-5.1%)	-1,002 (-14.2%)
	D	266 (4.3%)	-100 (-1.5%)
	C	-791 (-13.4%)	-640 (-11.1%)
	All	-216 (-3.3%)	-438 (-6.5%)
NOV	W	789 (11.8%)	-78 (-1%)
	AN	999 (16.1%)	89 (1.3%)
	BN	1,428 (28.1%)	580 (9.8%)
	D	-407 (-7.2%)	-144 (-2.7%)
	C	417 (8.7%)	530 (11.3%)
	All	612 (10.5%)	133 (2.1%)
DEC	W	-1,969 (-15.4%)	-225 (-2%)
	AN	-288 (-5.2%)	-134 (-2.5%)
	BN	-69 (-1.3%)	149 (2.9%)
	D	-322 (-7.6%)	-43 (-1.1%)
	C	172 (4.5%)	418 (11.7%)
	All	-724 (-10%)	-14 (-0.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.9.1.2 Sacramento River Upstream of Red Bluff**

2 **Table 3. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River Upstream of Red**
 3 **Bluff, Year-Round**

Alternative 9: Upstream—Sacramento River Upstream of Red Bluff				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LLТ
JAN	W	28,036	30,390	30,723
	AN	16,725	16,885	16,994
	BN	9,381	9,146	9,291
	D	7,098	7,262	6,757
	C	6,143	6,942	6,168
	All	15,396	16,278	16,200
FEB	W	30,255	33,472	33,612
	AN	23,492	24,828	24,927
	BN	12,005	11,614	12,305
	D	8,947	8,790	8,709
	C	6,599	6,378	6,376
	All	18,010	19,092	19,251
MAR	W	25,004	26,210	26,211
	AN	16,599	16,428	16,093
	BN	9,333	8,474	8,305
	D	8,385	8,300	8,410
	C	5,999	6,101	6,110
	All	14,669	14,876	14,824
APR	W	15,172	14,842	14,702
	AN	10,477	9,761	10,006
	BN	8,711	8,282	8,308
	D	7,948	7,661	8,161
	C	7,742	7,829	7,873
	All	10,709	10,376	10,488
MAY	W	12,541	10,073	10,077
	AN	10,012	10,047	10,092
	BN	8,781	7,875	8,656
	D	8,677	9,012	10,673
	C	7,746	8,348	8,602
	All	9,979	9,208	9,751
JUN	W	11,905	11,720	11,714
	AN	12,001	12,789	13,014
	BN	11,464	11,651	11,448
	D	11,777	12,441	12,598
	C	10,885	11,881	11,612
	All	11,666	12,046	12,038
JUL	W	13,255	14,525	14,409
	AN	14,129	15,142	14,891
	BN	13,011	13,258	12,877
	D	13,368	13,826	13,435
	C	13,005	12,149	11,801
	All	13,329	13,898	13,623

Alternative 9: Upstream—Sacramento River Upstream of Red Bluff				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL
AUG	W	11,284	10,735	10,473
	AN	10,580	11,775	10,995
	BN	10,202	10,364	10,059
	D	10,747	11,143	10,686
	C	9,590	7,665	8,304
	All	10,630	10,464	10,208
SEP	W	9,856	13,312	14,120
	AN	6,279	10,320	10,309
	BN	5,821	5,963	6,100
	D	6,391	4,911	4,807
	C	5,887	4,838	4,848
	All	7,302	8,535	8,792
OCT	W	8,020	8,188	8,096
	AN	8,112	8,162	7,320
	BN	7,094	7,778	6,784
	D	6,903	7,287	7,172
	C	6,670	6,537	5,907
	All	7,432	7,675	7,235
NOV	W	9,876	10,821	10,744
	AN	8,144	9,098	9,192
	BN	6,791	7,682	8,269
	D	7,548	7,347	7,213
	C	5,811	5,703	6,237
	All	7,990	8,521	8,660
DEC	W	21,015	19,613	19,387
	AN	10,019	10,053	9,916
	BN	8,408	8,228	8,369
	D	7,292	7,091	7,050
	C	5,628	5,433	5,859
	All	11,989	11,446	11,432

1 **Table 4. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **Upstream of Red Bluff, Year-Round**

Alternative 9: Upstream—Sacramento River Upstream of Red Bluff			
Month	WYT	EXISTING CONDITIONS vs. A9_LL	NAA vs. A9_LL
JAN	W	2,686 (9.6%)	333 (1.1%)
	AN	270 (1.6%)	109 (0.6%)
	BN	-91 (-1%)	144 (1.6%)
	D	-341 (-4.8%)	-505 (-6.9%)
	C	25 (0.4%)	-774 (-11.1%)
	All	805 (5.2%)	-78 (-0.5%)
FEB	W	3,357 (11.1%)	140 (0.4%)
	AN	1,435 (6.1%)	99 (0.4%)
	BN	301 (2.5%)	691 (5.9%)
	D	-238 (-2.7%)	-80 (-0.9%)
	C	-223 (-3.4%)	-2 (0%)
	All	1,241 (6.9%)	159 (0.8%)
MAR	W	1,207 (4.8%)	1 (0%)
	AN	-506 (-3%)	-336 (-2%)
	BN	-1,028 (-11%)	-169 (-2%)
	D	25 (0.3%)	110 (1.3%)
	C	111 (1.9%)	9 (0.1%)
	All	155 (1.1%)	-52 (-0.4%)
APR	W	-470 (-3.1%)	-140 (-0.9%)
	AN	-471 (-4.5%)	245 (2.5%)
	BN	-403 (-4.6%)	25 (0.3%)
	D	213 (2.7%)	500 (6.5%)
	C	131 (1.7%)	43 (0.6%)
	All	-221 (-2.1%)	112 (1.1%)
MAY	W	-2,464 (-19.6%)	4 (0%)
	AN	79 (0.8%)	45 (0.4%)
	BN	-125 (-1.4%)	781 (9.9%)
	D	1,996 (23%)	1,661 (18.4%)
	C	856 (11%)	254 (3%)
	All	-228 (-2.3%)	543 (5.9%)
JUN	W	-191 (-1.6%)	-5 (0%)
	AN	1,012 (8.4%)	224 (1.8%)
	BN	-16 (-0.1%)	-203 (-1.7%)
	D	821 (7%)	157 (1.3%)
	C	728 (6.7%)	-269 (-2.3%)
	All	372 (3.2%)	-8 (-0.1%)
JUL	W	1,154 (8.7%)	-116 (-0.8%)
	AN	762 (5.4%)	-250 (-1.7%)
	BN	-134 (-1%)	-381 (-2.9%)
	D	67 (0.5%)	-391 (-2.8%)
	C	-1,203 (-9.3%)	-348 (-2.9%)
	All	293 (2.2%)	-275 (-2%)

Alternative 9: Upstream—Sacramento River Upstream of Red Bluff			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1T	NAA vs. A9_LL1T
AUG	W	-811 (-7.2%)	-263 (-2.4%)
	AN	414 (3.9%)	-781 (-6.6%)
	BN	-143 (-1.4%)	-305 (-2.9%)
	D	-61 (-0.6%)	-457 (-4.1%)
	C	-1,287 (-13.4%)	639 (8.3%)
	All	-423 (-4%)	-256 (-2.5%)
SEP	W	4,264 (43.3%)	808 (6.1%)
	AN	4,030 (64.2%)	-11 (-0.1%)
	BN	280 (4.8%)	137 (2.3%)
	D	-1,584 (-24.8%)	-104 (-2.1%)
	C	-1,039 (-17.6%)	10 (0.2%)
	All	1,490 (20.4%)	257 (3%)
OCT	W	77 (1%)	-92 (-1.1%)
	AN	-791 (-9.8%)	-841 (-10.3%)
	BN	-311 (-4.4%)	-994 (-12.8%)
	D	269 (3.9%)	-115 (-1.6%)
	C	-763 (-11.4%)	-629 (-9.6%)
	All	-197 (-2.7%)	-439 (-5.7%)
NOV	W	868 (8.8%)	-77 (-0.7%)
	AN	1,049 (12.9%)	95 (1%)
	BN	1,479 (21.8%)	587 (7.6%)
	D	-335 (-4.4%)	-134 (-1.8%)
	C	426 (7.3%)	534 (9.4%)
	All	670 (8.4%)	139 (1.6%)
DEC	W	-1,628 (-7.7%)	-226 (-1.2%)
	AN	-104 (-1%)	-138 (-1.4%)
	BN	-39 (-0.5%)	141 (1.7%)
	D	-242 (-3.3%)	-41 (-0.6%)
	C	232 (4.1%)	427 (7.9%)
	All	-557 (-4.6%)	-14 (-0.1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.9.1.3 Sacramento River at Wilkins Slough**2 **Table 5. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Wilkins Slough,**
3 **Year-Round**

Alternative 9: Upstream—Sacramento River at Wilkins Slough				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	19,145	19,320	19,331
	AN	17,084	16,593	16,421
	BN	12,521	12,143	12,307
	D	8,896	9,189	8,732
	C	7,858	8,586	7,794
	All	13,811	13,901	13,691
FEB	W	19,887	20,044	20,048
	AN	19,139	19,095	19,101
	BN	14,528	14,328	14,532
	D	11,520	11,473	11,401
	C	8,499	8,158	8,208
	All	15,359	15,309	15,337
MAR	W	18,223	18,323	18,324
	AN	17,696	17,537	17,482
	BN	12,208	11,534	11,377
	D	11,364	11,191	11,325
	C	8,101	8,166	8,168
	All	14,132	13,997	13,992
APR	W	13,392	13,119	13,037
	AN	10,264	9,783	10,040
	BN	7,152	6,858	6,897
	D	5,319	5,112	5,608
	C	4,164	4,331	4,390
	All	8,746	8,518	8,654
MAY	W	10,467	8,435	8,512
	AN	7,318	7,500	7,599
	BN	5,638	4,871	5,676
	D	4,669	5,088	6,734
	C	3,998	4,528	4,796
	All	6,962	6,383	6,960
JUN	W	6,503	6,435	6,505
	AN	5,781	6,530	6,847
	BN	5,243	5,628	5,439
	D	5,245	6,075	6,189
	C	5,140	6,253	6,002
	All	5,707	6,205	6,230
JUL	W	6,685	7,771	7,746
	AN	6,971	7,892	7,733
	BN	6,122	6,560	6,263
	D	6,788	7,474	7,097
	C	7,162	6,649	6,379
	All	6,723	7,353	7,148

Alternative 9: Upstream—Sacramento River at Wilkins Slough				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
AUG	W	6,287	5,537	5,332
	AN	5,498	6,610	5,900
	BN	5,138	5,462	5,177
	D	5,833	6,356	5,905
	C	5,551	4,719	5,511
	All	5,768	5,741	5,541
SEP	W	9,338	12,737	13,580
	AN	5,631	9,546	9,601
	BN	5,128	5,216	5,356
	D	5,636	4,114	4,040
	C	5,200	4,354	4,311
	All	6,658	7,866	8,143
OCT	W	7,347	7,382	7,310
	AN	6,799	6,927	6,018
	BN	5,987	6,570	5,570
	D	5,688	6,040	5,886
	C	5,642	5,572	4,921
	All	6,421	6,617	6,161
NOV	W	9,644	10,889	10,737
	AN	8,210	9,141	9,281
	BN	6,793	7,588	8,230
	D	7,407	7,227	7,122
	C	5,118	4,986	5,518
	All	7,794	8,402	8,539
DEC	W	17,881	17,257	17,199
	AN	10,809	10,755	10,654
	BN	8,505	8,258	8,221
	D	8,950	8,725	8,696
	C	6,229	5,981	6,338
	All	11,580	11,246	11,252

1 **Table 6. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Wilkins Slough, Year-Round**

Alternative 9: Upstream—Sacramento River at Wilkins Slough			
Month	WYT	EXISTING CONDITIONS vs. A9_LLТ	NAA vs. A9_LLТ
JAN	W	186 (1%)	10 (0.1%)
	AN	-663 (-3.9%)	-173 (-1%)
	BN	-214 (-1.7%)	164 (1.3%)
	D	-164 (-1.8%)	-456 (-5%)
	C	-64 (-0.8%)	-792 (-9.2%)
	All	-120 (-0.9%)	-210 (-1.5%)
FEB	W	161 (0.8%)	3 (0%)
	AN	-38 (-0.2%)	6 (0%)
	BN	4 (0%)	204 (1.4%)
	D	-118 (-1%)	-72 (-0.6%)
	C	-291 (-3.4%)	49 (0.6%)
	All	-23 (-0.1%)	28 (0.2%)
MAR	W	101 (0.6%)	1 (0%)
	AN	-213 (-1.2%)	-54 (-0.3%)
	BN	-831 (-6.8%)	-157 (-1.4%)
	D	-39 (-0.3%)	134 (1.2%)
	C	67 (0.8%)	2 (0%)
	All	-140 (-1%)	-5 (0%)
APR	W	-355 (-2.7%)	-82 (-0.6%)
	AN	-224 (-2.2%)	257 (2.6%)
	BN	-255 (-3.6%)	39 (0.6%)
	D	288 (5.4%)	495 (9.7%)
	C	226 (5.4%)	59 (1.4%)
	All	-93 (-1.1%)	136 (1.6%)
MAY	W	-1,955 (-18.7%)	77 (0.9%)
	AN	281 (3.8%)	99 (1.3%)
	BN	38 (0.7%)	805 (16.5%)
	D	2,065 (44.2%)	1,646 (32.4%)
	C	798 (20%)	268 (5.9%)
	All	-2 (0%)	577 (9%)
JUN	W	2 (0%)	70 (1.1%)
	AN	1,066 (18.4%)	317 (4.9%)
	BN	197 (3.8%)	-189 (-3.4%)
	D	943 (18%)	114 (1.9%)
	C	862 (16.8%)	-251 (-4%)
	All	523 (9.2%)	25 (0.4%)
JUL	W	1,061 (15.9%)	-25 (-0.3%)
	AN	762 (10.9%)	-159 (-2%)
	BN	140 (2.3%)	-297 (-4.5%)
	D	310 (4.6%)	-377 (-5%)
	C	-782 (-10.9%)	-270 (-4.1%)
	All	425 (6.3%)	-204 (-2.8%)

Alternative 9: Upstream—Sacramento River at Wilkins Slough			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1T	NAA vs. A9_LL1T
AUG	W	-955 (-15.2%)	-204 (-3.7%)
	AN	402 (7.3%)	-710 (-10.7%)
	BN	39 (0.8%)	-285 (-5.2%)
	D	72 (1.2%)	-451 (-7.1%)
	C	-40 (-0.7%)	792 (16.8%)
	All	-227 (-3.9%)	-201 (-3.5%)
SEP	W	4,243 (45.4%)	843 (6.6%)
	AN	3,970 (70.5%)	56 (0.6%)
	BN	229 (4.5%)	141 (2.7%)
	D	-1,596 (-28.3%)	-74 (-1.8%)
	C	-889 (-17.1%)	-43 (-1%)
	All	1,485 (22.3%)	277 (3.5%)
OCT	W	-37 (-0.5%)	-72 (-1%)
	AN	-782 (-11.5%)	-909 (-13.1%)
	BN	-417 (-7%)	-1,000 (-15.2%)
	D	198 (3.5%)	-154 (-2.6%)
	C	-721 (-12.8%)	-651 (-11.7%)
	All	-259 (-4%)	-456 (-6.9%)
NOV	W	1,093 (11.3%)	-153 (-1.4%)
	AN	1,072 (13.1%)	141 (1.5%)
	BN	1,437 (21.2%)	642 (8.5%)
	D	-285 (-3.9%)	-105 (-1.5%)
	C	400 (7.8%)	532 (10.7%)
	All	745 (9.6%)	137 (1.6%)
DEC	W	-683 (-3.8%)	-58 (-0.3%)
	AN	-155 (-1.4%)	-101 (-0.9%)
	BN	-284 (-3.3%)	-37 (-0.4%)
	D	-254 (-2.8%)	-29 (-0.3%)
	C	109 (1.8%)	357 (6%)
	All	-327 (-2.8%)	6 (0.1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.9.1.4 Sacramento River at Verona**2 **Table 7. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Verona,**
3 **Year-Round**

Alternative 9: Upstream—Sacramento River at Verona				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1T
JAN	W	44,589	45,567	43,918
	AN	34,120	33,671	31,706
	BN	20,175	19,121	17,685
	D	14,756	14,782	13,695
	C	12,085	13,051	11,519
	All	27,583	27,795	26,276
FEB	W	49,892	51,326	49,828
	AN	39,162	39,749	38,133
	BN	26,429	25,341	23,647
	D	18,402	18,090	17,108
	C	12,822	12,325	11,962
	All	31,979	32,192	30,923
MAR	W	43,455	44,624	42,519
	AN	39,477	39,687	37,086
	BN	21,484	19,448	18,116
	D	17,868	17,649	16,522
	C	11,903	11,789	11,367
	All	28,888	28,877	27,292
APR	W	32,219	31,636	29,419
	AN	22,250	21,313	20,135
	BN	14,459	13,857	13,563
	D	11,113	10,903	11,513
	C	9,420	9,489	9,497
	All	19,759	19,298	18,507
MAY	W	26,193	20,229	20,385
	AN	17,079	16,002	16,317
	BN	11,451	10,534	11,929
	D	9,283	9,841	12,318
	C	7,125	7,611	8,130
	All	15,840	13,828	14,782
JUN	W	18,367	15,304	15,090
	AN	13,590	13,574	13,735
	BN	11,062	11,320	10,973
	D	10,429	10,780	10,960
	C	8,911	9,827	9,519
	All	13,295	12,576	12,467
JUL	W	16,253	17,965	17,613
	AN	17,488	18,338	18,219
	BN	16,698	16,598	15,921
	D	16,352	16,465	15,241
	C	14,476	12,457	11,598
	All	16,271	16,651	16,012

Alternative 9: Upstream—Sacramento River at Verona				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
AUG	W	12,464	14,016	13,854
	AN	13,691	15,828	15,130
	BN	13,389	14,074	13,676
	D	14,688	13,018	12,307
	C	9,207	8,085	9,138
	All	12,813	13,204	12,981
SEP	W	14,279	23,592	24,645
	AN	10,537	19,044	18,910
	BN	9,961	10,576	10,634
	D	10,542	7,664	7,446
	C	7,764	6,832	6,606
	All	11,220	14,755	14,999
OCT	W	11,503	11,232	10,872
	AN	9,381	9,890	8,715
	BN	9,867	10,146	8,872
	D	8,681	8,989	8,673
	C	8,543	8,104	7,039
	All	9,861	9,900	9,171
NOV	W	15,307	15,754	15,455
	AN	11,792	12,817	12,687
	BN	9,852	10,437	11,051
	D	10,157	9,731	9,738
	C	7,341	7,223	7,539
	All	11,565	11,846	11,884
DEC	W	33,840	31,254	29,406
	AN	17,572	18,481	17,529
	BN	13,099	13,028	12,796
	D	12,685	12,532	12,113
	C	9,770	8,627	9,211
	All	19,752	18,852	18,081

1 **Table 8. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento River**
 2 **at Verona, Year-Round**

Alternative 9: Upstream—Sacramento River at Verona			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1T	NAA vs. A9_LL1T
JAN	W	-671 (-1.5%)	-1,649 (-3.6%)
	AN	-2,414 (-7.1%)	-1,965 (-5.8%)
	BN	-2,490 (-12.3%)	-1,436 (-7.5%)
	D	-1,061 (-7.2%)	-1,087 (-7.4%)
	C	-567 (-4.7%)	-1,532 (-11.7%)
	All	-1,307 (-4.7%)	-1,518 (-5.5%)
FEB	W	-64 (-0.1%)	-1,498 (-2.9%)
	AN	-1,029 (-2.6%)	-1,616 (-4.1%)
	BN	-2,782 (-10.5%)	-1,694 (-6.7%)
	D	-1,294 (-7%)	-982 (-5.4%)
	C	-860 (-6.7%)	-363 (-2.9%)
	All	-1,056 (-3.3%)	-1,269 (-3.9%)
MAR	W	-936 (-2.2%)	-2,105 (-4.7%)
	AN	-2,391 (-6.1%)	-2,601 (-6.6%)
	BN	-3,368 (-15.7%)	-1,332 (-6.8%)
	D	-1,346 (-7.5%)	-1,127 (-6.4%)
	C	-536 (-4.5%)	-422 (-3.6%)
	All	-1,596 (-5.5%)	-1,585 (-5.5%)
APR	W	-2,800 (-8.7%)	-2,217 (-7%)
	AN	-2,116 (-9.5%)	-1,178 (-5.5%)
	BN	-895 (-6.2%)	-294 (-2.1%)
	D	399 (3.6%)	610 (5.6%)
	C	76 (0.8%)	7 (0.1%)
	All	-1,252 (-6.3%)	-791 (-4.1%)
MAY	W	-5,809 (-22.2%)	156 (0.8%)
	AN	-762 (-4.5%)	316 (2%)
	BN	478 (4.2%)	1,395 (13.2%)
	D	3,035 (32.7%)	2,477 (25.2%)
	C	1,005 (14.1%)	519 (6.8%)
	All	-1,058 (-6.7%)	954 (6.9%)
JUN	W	-3,277 (-17.8%)	-214 (-1.4%)
	AN	145 (1.1%)	161 (1.2%)
	BN	-89 (-0.8%)	-347 (-3.1%)
	D	531 (5.1%)	179 (1.7%)
	C	607 (6.8%)	-308 (-3.1%)
	All	-828 (-6.2%)	-109 (-0.9%)
JUL	W	1,360 (8.4%)	-352 (-2%)
	AN	731 (4.2%)	-119 (-0.6%)
	BN	-777 (-4.7%)	-678 (-4.1%)
	D	-1,111 (-6.8%)	-1,224 (-7.4%)
	C	-2,878 (-19.9%)	-860 (-6.9%)
	All	-260 (-1.6%)	-639 (-3.8%)

Alternative 9: Upstream—Sacramento River at Verona			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1T	NAA vs. A9_LL1T
AUG	W	1,390 (11.2%)	-162 (-1.2%)
	AN	1,439 (10.5%)	-698 (-4.4%)
	BN	287 (2.1%)	-398 (-2.8%)
	D	-2,380 (-16.2%)	-710 (-5.5%)
	C	-69 (-0.8%)	1,053 (13%)
	All	168 (1.3%)	-223 (-1.7%)
SEP	W	10,366 (72.6%)	1,053 (4.5%)
	AN	8,374 (79.5%)	-133 (-0.7%)
	BN	674 (6.8%)	59 (0.6%)
	D	-3,096 (-29.4%)	-218 (-2.8%)
	C	-1,158 (-14.9%)	-226 (-3.3%)
	All	3,778 (33.7%)	244 (1.7%)
OCT	W	-631 (-5.5%)	-360 (-3.2%)
	AN	-666 (-7.1%)	-1,175 (-11.9%)
	BN	-995 (-10.1%)	-1,274 (-12.6%)
	D	-8 (-0.1%)	-316 (-3.5%)
	C	-1,504 (-17.6%)	-1,065 (-13.1%)
	All	-689 (-7%)	-729 (-7.4%)
NOV	W	148 (1%)	-299 (-1.9%)
	AN	895 (7.6%)	-130 (-1%)
	BN	1,199 (12.2%)	613 (5.9%)
	D	-419 (-4.1%)	7 (0.1%)
	C	197 (2.7%)	316 (4.4%)
	All	320 (2.8%)	38 (0.3%)
DEC	W	-4,435 (-13.1%)	-1,849 (-5.9%)
	AN	-43 (-0.2%)	-952 (-5.1%)
	BN	-303 (-2.3%)	-231 (-1.8%)
	D	-572 (-4.5%)	-420 (-3.3%)
	C	-559 (-5.7%)	584 (6.8%)
	All	-1,672 (-8.5%)	-772 (-4.1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.9.1.5 Trinity River below Lewiston**

2 **Table 9. Mean Monthly Flows (cfs) for Model Scenarios in the Trinity River Below Lewiston,**
 3 **Year-Round**

Alternative 9: Upstream—Trinity River below Lewiston				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	1,440	1,518	1,490
	AN	300	300	300
	BN	358	300	300
	D	300	300	300
	C	300	287	278
	All	671	684	674
FEB	W	1,056	1,495	1,460
	AN	689	784	746
	BN	517	568	409
	D	300	300	300
	C	300	300	300
	All	634	795	752
MAR	W	1,209	1,385	1,385
	AN	436	519	519
	BN	319	300	300
	D	300	300	300
	C	300	300	300
	All	611	676	676
APR	W	721	844	844
	AN	469	513	515
	BN	507	504	504
	D	529	529	529
	C	575	580	580
	All	584	630	630
MAY	W	4,636	4,620	4,620
	AN	4,462	4,416	4,416
	BN	3,774	3,865	3,865
	D	3,216	3,216	3,216
	C	2,092	1,973	1,973
	All	3,779	3,766	3,766
JUN	W	3,371	3,560	3,560
	AN	2,488	3,188	3,188
	BN	1,672	1,767	1,767
	D	1,251	1,251	1,251
	C	783	783	783
	All	2,108	2,286	2,286
JUL	W	1,289	1,103	1,103
	AN	1,048	1,048	1,048
	BN	869	916	916
	D	667	667	667
	C	450	413	413
	All	923	866	866

Alternative 9: Upstream—Trinity River below Lewiston				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL T
AUG	W	450	450	450
	AN	450	450	450
	BN	450	450	450
	D	450	450	450
	C	450	338	300
	All	450	434	428
SEP	W	450	450	450
	AN	450	450	450
	BN	450	450	450
	D	450	450	450
	C	450	265	265
	All	450	423	423
OCT	W	373	373	373
	AN	373	311	311
	BN	346	346	346
	D	373	346	352
	C	373	311	311
	All	368	344	346
NOV	W	489	414	416
	AN	300	275	275
	BN	300	300	300
	D	300	283	283
	C	300	225	250
	All	360	318	322
DEC	W	1,072	837	845
	AN	300	300	300
	BN	300	300	300
	D	300	300	300
	C	300	275	272
	All	545	466	469

1 **Table 10. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Trinity River**
 2 **Below Lewiston, Year-Round**

Alternative 9: Upstream—Trinity River below Lewiston			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
JAN	W	50 (3.5%)	-28 (-1.9%)
	AN	0 (0%)	0 (0%)
	BN	-58 (-16.3%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-22 (-7.2%)	-9 (-3.1%)
	All	3 (0.4%)	-10 (-1.5%)
FEB	W	404 (38.2%)	-35 (-2.3%)
	AN	56 (8.2%)	-38 (-4.9%)
	BN	-107 (-20.8%)	-159 (-28%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	118 (18.6%)	-44 (-5.5%)
MAR	W	176 (14.6%)	0 (0%)
	AN	83 (19.1%)	0 (0%)
	BN	-19 (-5.8%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	65 (10.6%)	0 (0%)
APR	W	122 (17%)	0 (0%)
	AN	46 (9.8%)	3 (0.6%)
	BN	-3 (-0.7%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	5 (0.9%)	0 (0%)
	All	46 (7.8%)	0 (0.1%)
MAY	W	-16 (-0.3%)	0 (0%)
	AN	-46 (-1%)	0 (0%)
	BN	90 (2.4%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-119 (-5.7%)	0 (0%)
	All	-14 (-0.4%)	0 (0%)
JUN	W	189 (5.6%)	0 (0%)
	AN	700 (28.1%)	0 (0%)
	BN	96 (5.7%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	179 (8.5%)	0 (0%)
JUL	W	-185 (-14.4%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	47 (5.4%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-38 (-8.3%)	0 (0%)
	All	-56 (-6.1%)	0 (0%)

Alternative 9: Upstream—Trinity River below Lewiston			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-150 (-33.3%)	-37 (-11.1%)
	All	-22 (-4.9%)	-5 (-1.3%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-185 (-41.1%)	0 (0%)
	All	-27 (-6%)	0 (0%)
OCT	W	0 (0%)	0 (0%)
	AN	-62 (-16.7%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	-21 (-5.6%)	6 (1.9%)
	C	-62 (-16.7%)	0 (0%)
	All	-23 (-6.2%)	1 (0.4%)
NOV	W	-72 (-14.8%)	2 (0.6%)
	AN	-25 (-8.3%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	-17 (-5.6%)	0 (0%)
	C	-50 (-16.7%)	25 (11.1%)
	All	-38 (-10.4%)	4 (1.4%)
DEC	W	-227 (-21.1%)	8 (1%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-28 (-9.3%)	-3 (-0.9%)
	All	-76 (-13.9%)	2 (0.5%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.9.1.6 Clear Creek below Whiskeytown**

2 **Table 11. Mean Monthly Flows (cfs) for Model Scenarios in Clear Creek Below Whiskeytown,**
 3 **Year-Round**

Alternative 9: Upstream—Clear Creek below Whiskeytown				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	220	339	339
	AN	192	192	192
	BN	189	189	189
	D	184	192	192
	C	155	159	168
	All	193	233	234
FEB	W	220	257	257
	AN	197	196	196
	BN	189	189	189
	D	184	192	192
	C	155	168	168
	All	194	209	209
MAR	W	200	259	258
	AN	197	196	203
	BN	189	202	189
	D	186	192	192
	C	155	168	171
	All	188	212	211
APR	W	200	200	200
	AN	197	196	196
	BN	189	189	189
	D	188	192	192
	C	155	168	171
	All	189	191	191
MAY	W	277	277	277
	AN	277	277	277
	BN	263	269	269
	D	264	264	264
	C	211	224	224
	All	262	265	265
JUN	W	200	200	200
	AN	200	200	200
	BN	181	186	186
	D	180	180	180
	C	115	131	131
	All	180	183	183
JUL	W	85	85	85
	AN	85	85	85
	BN	85	85	85
	D	85	85	85
	C	85	85	85
	All	85	85	85

Alternative 9: Upstream—Clear Creek below Whiskeytown				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LLТ
AUG	W	85	85	85
	AN	85	85	85
	BN	85	85	85
	D	85	85	85
	C	94	71	78
	All	86	83	84
SEP	W	150	150	150
	AN	150	150	150
	BN	150	150	150
	D	144	150	150
	C	133	96	83
	All	146	142	140
OCT	W	198	198	198
	AN	183	183	183
	BN	189	182	189
	D	175	183	175
	C	150	142	154
	All	182	182	183
NOV	W	198	198	198
	AN	185	182	182
	BN	184	189	189
	D	177	177	184
	C	155	145	146
	All	183	182	184
DEC	W	198	198	198
	AN	185	192	192
	BN	189	189	189
	D	177	189	189
	C	155	156	171
	All	184	187	190

1 **Table 12. Differences^a (Percent Differences) between Pairs of Model Scenarios in Clear Creek Below**
 2 **Whiskeytown, Year-Round**

Alternative 9: Upstream—Clear Creek below Whiskeytown			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
JAN	W	118 (53.7%)	0 (0%)
	AN	0 (-0.1%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	7 (3.9%)	0 (0%)
	C	13 (8.4%)	9 (5.6%)
	All	41 (21.2%)	1 (0.5%)
FEB	W	38 (17.1%)	0 (0%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	7 (3.9%)	0 (0%)
	C	13 (8.4%)	0 (0%)
	All	15 (7.9%)	0 (0%)
MAR	W	58 (29.2%)	0 (0%)
	AN	7 (3.4%)	7 (3.8%)
	BN	0 (0%)	-12 (-6.1%)
	D	6 (3.2%)	0 (0%)
	C	16 (10%)	3 (1.5%)
	All	23 (12.3%)	-1 (-0.3%)
APR	W	0 (0.1%)	0 (-0.1%)
	AN	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	3 (1.7%)	0 (0%)
	C	16 (10%)	3 (1.5%)
	All	3 (1.5%)	0 (0.2%)
MAY	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	6 (2.2%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	13 (6.2%)	0 (0%)
	All	3 (1.1%)	0 (0%)
JUN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	5 (2.6%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	16 (14.1%)	0 (0%)
	All	3 (1.8%)	0 (0%)
JUL	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)

Alternative 9: Upstream—Clear Creek below Whiskeytown			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	-16 (-17.4%)	7 (10%)
	All	-2 (-2.8%)	1 (1.2%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	6 (3.8%)	0 (0%)
	C	-50 (-37.5%)	-13 (-13%)
	All	-6 (-4.2%)	-2 (-1.3%)
OCT	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	7 (4.1%)
	D	0 (0%)	-8 (-4.5%)
	C	4 (2.8%)	12 (8.8%)
	All	1 (0.3%)	1 (0.7%)
NOV	W	0 (0%)	0 (0%)
	AN	-3 (-1.8%)	0 (0%)
	BN	6 (3.1%)	0 (0%)
	D	7 (4.1%)	8 (4.5%)
	C	-9 (-5.9%)	0 (0.3%)
	All	1 (0.4%)	2 (1%)
DEC	W	0 (0.1%)	0 (0.1%)
	AN	7 (3.6%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	12 (6.6%)	0 (0%)
	C	16 (10.1%)	15 (9.6%)
	All	6 (3.2%)	2 (1.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.9.1.7 Feather River Low-Flow Channel (Upstream of Thermalito**
 2 **Afterbay)**

3 **Table 13. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River Upstream of Thermalito**
 4 **Afterbay (Low-Flow Channel), Year-Round**

Alternative 9: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
FEB	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
MAR	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
APR	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
MAY	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
JUN	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
JUL	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700

Alternative 9: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
AUG	W	700	700	700
	AN	700	700	700
	BN	700	700	700
	D	700	700	700
	C	700	700	700
	All	700	700	700
SEP	W	773	773	773
	AN	773	773	773
	BN	773	773	773
	D	773	773	773
	C	773	773	773
	All	773	773	773
OCT	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
NOV	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800
DEC	W	800	800	800
	AN	800	800	800
	BN	800	800	800
	D	800	800	800
	C	800	800	800
	All	800	800	800

1 **Table 14. Differences (Percent Differences) between Pairs of Model Scenarios in the Feather River**
 2 **Upstream of Thermalito Afterbay (Low-Flow Channel), Year-Round**

Alternative 9: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
JAN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
FEB	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
MAR	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
APR	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
MAY	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
JUN	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
JUL	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)

Alternative 9: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
AUG	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
SEP	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
OCT	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
NOV	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)
DEC	W	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)

1 **11C.9.1.8 Feather River High-Flow Channel (at Thermalito Afterbay)**

2 **Table 15. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at Thermalito Afterbay**
 3 **(High-Flow Channel), Year-Round**

Alternative 9: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	11,257	11,896	12,037
	AN	4,434	2,838	2,713
	BN	2,640	1,441	1,498
	D	1,798	1,459	1,459
	C	1,459	1,648	1,293
	All	5,277	4,995	4,979
FEB	W	12,466	14,787	14,726
	AN	7,411	5,809	6,086
	BN	3,916	1,897	1,774
	D	1,817	1,659	1,647
	C	1,610	1,482	1,521
	All	6,340	6,444	6,447
MAR	W	12,895	14,772	14,525
	AN	7,733	8,568	8,668
	BN	3,373	1,985	2,050
	D	2,017	1,762	1,647
	C	1,697	1,634	1,618
	All	6,487	6,902	6,822
APR	W	6,472	6,408	6,403
	AN	2,251	2,170	2,165
	BN	1,205	1,203	1,376
	D	1,286	1,470	1,755
	C	1,389	1,407	1,462
	All	3,073	3,084	3,181
MAY	W	7,528	4,740	4,907
	AN	3,340	3,101	3,400
	BN	1,205	1,749	2,428
	D	1,591	2,223	3,153
	C	1,574	1,790	2,141
	All	3,661	3,005	3,473
JUN	W	5,062	4,211	4,015
	AN	3,301	3,930	3,863
	BN	2,707	3,552	3,490
	D	3,134	3,284	3,455
	C	2,695	2,666	2,734
	All	3,632	3,628	3,593
JUL	W	6,490	8,577	8,217
	AN	8,757	9,488	9,547
	BN	8,981	8,833	8,577
	D	8,294	8,099	7,289
	C	6,703	5,217	4,532
	All	7,674	8,157	7,730

Alternative 9: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
AUG	W	3,308	6,228	6,251
	AN	6,042	7,346	7,311
	BN	6,295	6,868	6,750
	D	7,036	4,990	4,757
	C	2,613	2,163	2,528
	All	4,935	5,634	5,619
SEP	W	2,280	8,327	8,707
	AN	2,253	6,899	6,790
	BN	2,466	3,068	3,048
	D	2,366	1,052	1,044
	C	1,421	1,345	1,275
	All	2,201	4,601	4,691
OCT	W	3,456	3,051	2,855
	AN	2,386	2,741	2,587
	BN	3,183	2,862	2,688
	D	2,688	2,652	2,579
	C	2,472	2,102	1,798
	All	2,940	2,747	2,572
NOV	W	3,292	2,470	2,361
	AN	1,824	2,119	1,916
	BN	2,101	1,900	1,964
	D	1,859	1,664	1,869
	C	1,854	1,876	1,756
	All	2,349	2,058	2,032
DEC	W	7,157	3,948	4,138
	AN	2,951	3,344	3,027
	BN	2,176	2,102	2,143
	D	2,364	2,229	2,166
	C	2,609	1,694	2,037
	All	3,973	2,837	2,895

1 **Table 16. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Feather River at**
 2 **Thermalito Afterbay (High-Flow Channel), Year-Round**

Alternative 9: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
JAN	W	780 (6.9%)	142 (1.2%)
	AN	-1,720 (-38.8%)	-125 (-4.4%)
	BN	-1,142 (-43.3%)	57 (3.9%)
	D	-339 (-18.8%)	1 (0%)
	C	-167 (-11.4%)	-355 (-21.6%)
	All	-298 (-5.7%)	-16 (-0.3%)
FEB	W	2,260 (18.1%)	-61 (-0.4%)
	AN	-1,325 (-17.9%)	277 (4.8%)
	BN	-2,142 (-54.7%)	-123 (-6.5%)
	D	-170 (-9.4%)	-13 (-0.8%)
	C	-90 (-5.6%)	39 (2.6%)
	All	107 (1.7%)	3 (0%)
MAR	W	1,630 (12.6%)	-247 (-1.7%)
	AN	935 (12.1%)	100 (1.2%)
	BN	-1,323 (-39.2%)	66 (3.3%)
	D	-370 (-18.3%)	-115 (-6.5%)
	C	-79 (-4.6%)	-15 (-0.9%)
	All	335 (5.2%)	-80 (-1.2%)
APR	W	-70 (-1.1%)	-6 (-0.1%)
	AN	-87 (-3.8%)	-5 (-0.2%)
	BN	171 (14.2%)	173 (14.4%)
	D	469 (36.5%)	284 (19.3%)
	C	73 (5.3%)	55 (3.9%)
	All	108 (3.5%)	97 (3.2%)
MAY	W	-2,621 (-34.8%)	167 (3.5%)
	AN	60 (1.8%)	298 (9.6%)
	BN	1,223 (101.4%)	679 (38.9%)
	D	1,562 (98.1%)	930 (41.8%)
	C	567 (36%)	351 (19.6%)
	All	-188 (-5.1%)	468 (15.6%)
JUN	W	-1,046 (-20.7%)	-196 (-4.6%)
	AN	562 (17%)	-66 (-1.7%)
	BN	783 (28.9%)	-62 (-1.7%)
	D	321 (10.2%)	171 (5.2%)
	C	39 (1.5%)	68 (2.6%)
	All	-40 (-1.1%)	-35 (-1%)
JUL	W	1,727 (26.6%)	-360 (-4.2%)
	AN	790 (9%)	59 (0.6%)
	BN	-404 (-4.5%)	-255 (-2.9%)
	D	-1,006 (-12.1%)	-810 (-10%)
	C	-2,171 (-32.4%)	-685 (-13.1%)
	All	56 (0.7%)	-427 (-5.2%)

Alternative 9: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
AUG	W	2,943 (89%)	23 (0.4%)
	AN	1,268 (21%)	-35 (-0.5%)
	BN	455 (7.2%)	-118 (-1.7%)
	D	-2,279 (-32.4%)	-233 (-4.7%)
	C	-85 (-3.3%)	365 (16.9%)
	All	684 (13.9%)	-16 (-0.3%)
SEP	W	6,427 (281.9%)	380 (4.6%)
	AN	4,537 (201.4%)	-110 (-1.6%)
	BN	582 (23.6%)	-20 (-0.7%)
	D	-1,322 (-55.9%)	-8 (-0.8%)
	C	-145 (-10.2%)	-69 (-5.2%)
	All	2,490 (113.1%)	89 (1.9%)
OCT	W	-601 (-17.4%)	-196 (-6.4%)
	AN	200 (8.4%)	-155 (-5.6%)
	BN	-494 (-15.5%)	-173 (-6.1%)
	D	-109 (-4.1%)	-73 (-2.8%)
	C	-673 (-27.2%)	-304 (-14.5%)
	All	-368 (-12.5%)	-175 (-6.4%)
NOV	W	-931 (-28.3%)	-109 (-4.4%)
	AN	92 (5%)	-203 (-9.6%)
	BN	-137 (-6.5%)	64 (3.4%)
	D	10 (0.5%)	205 (12.3%)
	C	-97 (-5.3%)	-119 (-6.4%)
	All	-317 (-13.5%)	-26 (-1.2%)
DEC	W	-3,019 (-42.2%)	190 (4.8%)
	AN	77 (2.6%)	-317 (-9.5%)
	BN	-32 (-1.5%)	42 (2%)
	D	-198 (-8.4%)	-63 (-2.8%)
	C	-571 (-21.9%)	343 (20.3%)
	All	-1,078 (-27.1%)	58 (2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.9.1.9 Feather River at Confluence with Sacramento River**

2 **Table 17. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at the Confluence with**
 3 **the Sacramento River, Year-Round**

Alternative 9: Upstream—Feather River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	23,533	26,106	26,249
	AN	12,430	11,953	11,831
	BN	6,499	5,575	5,631
	D	4,621	4,412	4,412
	C	3,646	3,837	3,479
	All	11,938	12,509	12,493
FEB	W	27,039	31,065	31,008
	AN	14,818	14,599	14,879
	BN	9,153	7,892	7,769
	D	4,402	4,436	4,423
	C	3,237	3,096	3,136
	All	13,744	14,761	14,765
MAR	W	24,172	26,784	26,542
	AN	19,990	21,490	21,586
	BN	8,136	6,882	6,932
	D	5,073	4,940	4,811
	C	2,933	2,756	2,736
	All	13,521	14,300	14,215
APR	W	15,897	15,852	15,852
	AN	9,832	9,585	9,583
	BN	5,401	5,189	5,362
	D	4,152	4,137	4,423
	C	3,298	3,185	3,241
	All	8,796	8,689	8,789
MAY	W	14,387	10,385	10,557
	AN	8,068	6,884	7,186
	BN	4,704	4,509	5,188
	D	3,652	3,767	4,695
	C	2,389	2,321	2,663
	All	7,697	6,237	6,705
JUN	W	10,222	7,199	7,007
	AN	6,391	5,598	5,534
	BN	4,495	4,342	4,278
	D	3,853	3,367	3,533
	C	2,782	2,522	2,565
	All	6,197	4,951	4,913
JUL	W	8,177	8,734	8,376
	AN	9,322	9,223	9,283
	BN	9,380	8,725	8,453
	D	8,290	7,674	6,855
	C	6,450	4,891	4,164
	All	8,322	8,009	7,572

Alternative 9: Upstream—Feather River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL
AUG	W	4,923	7,222	7,253
	AN	7,080	8,089	8,069
	BN	7,236	7,570	7,435
	D	7,711	5,487	5,220
	C	2,841	2,340	2,663
	All	5,941	6,313	6,285
SEP	W	4,351	10,329	10,712
	AN	4,194	8,773	8,670
	BN	4,252	4,786	4,795
	D	4,179	2,848	2,802
	C	2,054	1,964	1,884
	All	3,937	6,289	6,375
OCT	W	4,176	3,746	3,555
	AN	2,630	2,988	2,824
	BN	3,754	3,437	3,259
	D	3,033	2,987	2,925
	C	2,938	2,566	2,262
	All	3,446	3,243	3,070
NOV	W	4,697	3,825	3,721
	AN	3,065	3,186	2,985
	BN	2,687	2,455	2,522
	D	2,342	2,125	2,333
	C	2,084	2,107	1,989
	All	3,216	2,873	2,851
DEC	W	12,409	10,246	10,436
	AN	5,193	6,000	5,685
	BN	3,079	3,249	3,292
	D	2,838	2,811	2,745
	C	2,975	2,054	2,405
	All	6,279	5,599	5,658

1 **Table 18. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Feather River at**
 2 **the Confluence with the Sacramento River, Year-Round**

Alternative 9: Upstream—Feather River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A9_LLТ	NAA vs. A9_LLТ
JAN	W	2,716 (11.5%)	143 (0.5%)
	AN	-599 (-4.8%)	-122 (-1%)
	BN	-868 (-13.4%)	56 (1%)
	D	-209 (-4.5%)	0 (0%)
	C	-167 (-4.6%)	-358 (-9.3%)
	All	555 (4.6%)	-15 (-0.1%)
FEB	W	3,969 (14.7%)	-57 (-0.2%)
	AN	61 (0.4%)	280 (1.9%)
	BN	-1,384 (-15.1%)	-123 (-1.6%)
	D	21 (0.5%)	-14 (-0.3%)
	C	-101 (-3.1%)	40 (1.3%)
	All	1,021 (7.4%)	5 (0%)
MAR	W	2,370 (9.8%)	-242 (-0.9%)
	AN	1,596 (8%)	96 (0.4%)
	BN	-1,204 (-14.8%)	50 (0.7%)
	D	-262 (-5.2%)	-129 (-2.6%)
	C	-196 (-6.7%)	-20 (-0.7%)
	All	693 (5.1%)	-85 (-0.6%)
APR	W	-45 (-0.3%)	0 (0%)
	AN	-249 (-2.5%)	-2 (0%)
	BN	-39 (-0.7%)	173 (3.3%)
	D	271 (6.5%)	286 (6.9%)
	C	-57 (-1.7%)	56 (1.8%)
	All	-6 (-0.1%)	100 (1.2%)
MAY	W	-3,830 (-26.6%)	172 (1.7%)
	AN	-882 (-10.9%)	302 (4.4%)
	BN	484 (10.3%)	680 (15.1%)
	D	1,043 (28.6%)	928 (24.6%)
	C	274 (11.5%)	342 (14.7%)
	All	-992 (-12.9%)	468 (7.5%)
JUN	W	-3,215 (-31.4%)	-192 (-2.7%)
	AN	-857 (-13.4%)	-64 (-1.1%)
	BN	-217 (-4.8%)	-64 (-1.5%)
	D	-320 (-8.3%)	166 (4.9%)
	C	-218 (-7.8%)	42 (1.7%)
	All	-1,284 (-20.7%)	-38 (-0.8%)
JUL	W	199 (2.4%)	-358 (-4.1%)
	AN	-39 (-0.4%)	60 (0.7%)
	BN	-928 (-9.9%)	-272 (-3.1%)
	D	-1,434 (-17.3%)	-819 (-10.7%)
	C	-2,287 (-35.4%)	-728 (-14.9%)
	All	-750 (-9%)	-437 (-5.5%)

Alternative 9: Upstream—Feather River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1T	NAA vs. A9_LL1T
AUG	W	2,329 (47.3%)	31 (0.4%)
	AN	989 (14%)	-20 (-0.2%)
	BN	200 (2.8%)	-135 (-1.8%)
	D	-2,492 (-32.3%)	-268 (-4.9%)
	C	-178 (-6.3%)	323 (13.8%)
	All	344 (5.8%)	-28 (-0.4%)
SEP	W	6,360 (146.2%)	383 (3.7%)
	AN	4,476 (106.7%)	-103 (-1.2%)
	BN	543 (12.8%)	9 (0.2%)
	D	-1,377 (-33%)	-46 (-1.6%)
	C	-170 (-8.3%)	-80 (-4.1%)
	All	2,437 (61.9%)	86 (1.4%)
OCT	W	-621 (-14.9%)	-191 (-5.1%)
	AN	194 (7.4%)	-164 (-5.5%)
	BN	-494 (-13.2%)	-178 (-5.2%)
	D	-108 (-3.6%)	-62 (-2.1%)
	C	-676 (-23%)	-304 (-11.8%)
	All	-376 (-10.9%)	-173 (-5.3%)
NOV	W	-975 (-20.8%)	-104 (-2.7%)
	AN	-79 (-2.6%)	-201 (-6.3%)
	BN	-165 (-6.1%)	67 (2.7%)
	D	-10 (-0.4%)	208 (9.8%)
	C	-95 (-4.6%)	-118 (-5.6%)
	All	-365 (-11.4%)	-22 (-0.8%)
DEC	W	-1,973 (-15.9%)	191 (1.9%)
	AN	492 (9.5%)	-315 (-5.2%)
	BN	213 (6.9%)	43 (1.3%)
	D	-92 (-3.3%)	-66 (-2.3%)
	C	-570 (-19.2%)	350 (17.1%)
	All	-621 (-9.9%)	59 (1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.9.1.10 American River at Nimbus Dam**

2 **Table 19. Mean Monthly Flows (cfs) for Model Scenarios in the American River at Nimbus Dam,**
 3 **Year-Round**

Alternative 9: Upstream—American River at Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	8,806	11,036	11,134
	AN	4,833	5,805	5,819
	BN	2,392	2,073	2,139
	D	1,723	1,506	1,433
	C	1,474	1,095	1,096
	All	4,502	5,194	5,222
FEB	W	9,294	11,102	11,107
	AN	6,469	8,153	8,263
	BN	4,360	4,961	4,983
	D	1,852	1,844	1,983
	C	1,185	1,007	1,021
	All	5,218	6,112	6,167
MAR	W	6,089	6,992	6,998
	AN	5,454	5,790	5,782
	BN	2,429	2,794	2,798
	D	2,191	2,314	2,236
	C	939	938	929
	All	3,762	4,187	4,170
APR	W	5,300	5,508	5,517
	AN	3,546	3,298	3,312
	BN	3,126	2,970	3,068
	D	1,837	1,888	2,092
	C	1,156	1,255	1,206
	All	3,305	3,334	3,393
MAY	W	6,157	4,592	4,637
	AN	3,885	2,521	2,588
	BN	2,930	1,969	2,364
	D	1,790	1,686	2,130
	C	1,182	992	1,130
	All	3,587	2,676	2,886
JUN	W	6,003	3,694	3,852
	AN	3,346	3,022	3,104
	BN	2,863	2,883	2,921
	D	2,506	2,596	2,521
	C	1,824	1,025	1,066
	All	3,699	2,825	2,884
JUL	W	4,108	3,860	3,690
	AN	4,638	4,927	4,497
	BN	4,744	4,328	3,571
	D	3,577	3,143	2,408
	C	1,784	2,022	1,975
	All	3,838	3,670	3,256

Alternative 9: Upstream—American River at Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
AUG	W	3,520	2,132	2,109
	AN	2,542	1,944	1,955
	BN	2,495	2,324	2,292
	D	2,613	1,620	1,489
	C	1,500	1,100	991
	All	2,707	1,874	1,818
SEP	W	4,025	3,622	3,573
	AN	2,764	2,044	2,112
	BN	2,370	1,605	1,788
	D	1,856	1,182	1,205
	C	1,164	594	651
	All	2,663	2,068	2,107
OCT	W	1,723	1,634	1,639
	AN	1,706	1,732	1,446
	BN	1,602	1,767	1,519
	D	1,468	1,258	1,395
	C	1,461	1,655	1,510
	All	1,605	1,592	1,518
NOV	W	3,527	2,612	2,819
	AN	3,181	2,554	2,428
	BN	2,067	1,716	1,733
	D	2,176	1,424	1,687
	C	1,994	1,608	1,725
	All	2,706	2,043	2,168
DEC	W	6,302	6,171	6,160
	AN	3,137	2,933	2,930
	BN	2,676	2,527	2,523
	D	1,741	1,351	1,496
	C	1,524	1,251	1,276
	All	3,519	3,297	3,328

1 **Table 20. Differences^a (Percent Differences) between Pairs of Model Scenarios in the American River**
 2 **at Nimbus Dam, Year-Round**

Alternative 9: Upstream—American River at Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A9_LLТ	NAA vs. A9_LLТ
JAN	W	2,327 (26.4%)	97 (0.9%)
	AN	986 (20.4%)	14 (0.2%)
	BN	-253 (-10.6%)	66 (3.2%)
	D	-290 (-16.8%)	-73 (-4.9%)
	C	-378 (-25.7%)	1 (0.1%)
	All	720 (16%)	28 (0.5%)
FEB	W	1,813 (19.5%)	5 (0%)
	AN	1,794 (27.7%)	111 (1.4%)
	BN	624 (14.3%)	22 (0.4%)
	D	131 (7.1%)	139 (7.6%)
	C	-164 (-13.8%)	15 (1.5%)
	All	949 (18.2%)	54 (0.9%)
MAR	W	910 (14.9%)	6 (0.1%)
	AN	328 (6%)	-9 (-0.1%)
	BN	369 (15.2%)	4 (0.1%)
	D	45 (2.1%)	-78 (-3.4%)
	C	-10 (-1.1%)	-9 (-0.9%)
	All	408 (10.8%)	-17 (-0.4%)
APR	W	217 (4.1%)	9 (0.2%)
	AN	-234 (-6.6%)	14 (0.4%)
	BN	-58 (-1.8%)	98 (3.3%)
	D	254 (13.8%)	203 (10.8%)
	C	51 (4.4%)	-49 (-3.9%)
	All	88 (2.7%)	59 (1.8%)
MAY	W	-1,519 (-24.7%)	45 (1%)
	AN	-1,296 (-33.4%)	67 (2.7%)
	BN	-566 (-19.3%)	395 (20%)
	D	340 (19%)	444 (26.3%)
	C	-51 (-4.3%)	139 (14%)
	All	-701 (-19.5%)	209 (7.8%)
JUN	W	-2,151 (-35.8%)	159 (4.3%)
	AN	-242 (-7.2%)	82 (2.7%)
	BN	57 (2%)	38 (1.3%)
	D	16 (0.6%)	-75 (-2.9%)
	C	-758 (-41.6%)	41 (4%)
	All	-815 (-22%)	58 (2.1%)
JUL	W	-418 (-10.2%)	-170 (-4.4%)
	AN	-141 (-3%)	-430 (-8.7%)
	BN	-1,173 (-24.7%)	-757 (-17.5%)
	D	-1,169 (-32.7%)	-735 (-23.4%)
	C	190 (10.7%)	-48 (-2.4%)
	All	-582 (-15.2%)	-414 (-11.3%)

Alternative 9: Upstream—American River at Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
AUG	W	-1,411 (-40.1%)	-23 (-1.1%)
	AN	-587 (-23.1%)	10 (0.5%)
	BN	-203 (-8.1%)	-32 (-1.4%)
	D	-1,124 (-43%)	-131 (-8.1%)
	C	-509 (-33.9%)	-109 (-9.9%)
	All	-889 (-32.9%)	-56 (-3%)
SEP	W	-451 (-11.2%)	-49 (-1.4%)
	AN	-652 (-23.6%)	69 (3.4%)
	BN	-583 (-24.6%)	183 (11.4%)
	D	-652 (-35.1%)	23 (1.9%)
	C	-513 (-44.1%)	58 (9.7%)
	All	-556 (-20.9%)	39 (1.9%)
OCT	W	-84 (-4.9%)	5 (0.3%)
	AN	-260 (-15.2%)	-285 (-16.5%)
	BN	-83 (-5.2%)	-247 (-14%)
	D	-73 (-5%)	137 (10.8%)
	C	50 (3.4%)	-144 (-8.7%)
	All	-87 (-5.4%)	-74 (-4.6%)
NOV	W	-708 (-20.1%)	207 (7.9%)
	AN	-753 (-23.7%)	-126 (-4.9%)
	BN	-334 (-16.2%)	17 (1%)
	D	-490 (-22.5%)	262 (18.4%)
	C	-269 (-13.5%)	117 (7.3%)
	All	-539 (-19.9%)	125 (6.1%)
DEC	W	-141 (-2.2%)	-11 (-0.2%)
	AN	-206 (-6.6%)	-2 (-0.1%)
	BN	-153 (-5.7%)	-4 (-0.2%)
	D	-245 (-14.1%)	145 (10.7%)
	C	-248 (-16.3%)	25 (2%)
	All	-191 (-5.4%)	31 (0.9%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.9.1.11 American River at Confluence with Sacramento River**

2 **Table 21. Mean Monthly Flows (cfs) for Model Scenarios in the American River at the Confluence with**
 3 **the Sacramento River, Year-Round**

Alternative 9: Upstream—American River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1T
JAN	W	8,748	10,960	11,057
	AN	4,806	5,760	5,774
	BN	2,326	1,988	2,054
	D	1,654	1,424	1,349
	C	1,403	1,008	1,009
	All	4,443	5,118	5,145
FEB	W	9,183	10,947	10,951
	AN	6,422	8,073	8,183
	BN	4,309	4,888	4,910
	D	1,781	1,756	1,896
	C	1,119	921	936
	All	5,142	6,007	6,061
MAR	W	5,979	6,837	6,843
	AN	5,364	5,661	5,651
	BN	2,340	2,672	2,676
	D	2,121	2,224	2,144
	C	864	836	827
	All	3,672	4,063	4,045
APR	W	5,156	5,300	5,308
	AN	3,383	3,079	3,093
	BN	2,984	2,778	2,876
	D	1,672	1,677	1,880
	C	996	1,059	1,002
	All	3,152	3,128	3,186
MAY	W	5,959	4,332	4,378
	AN	3,700	2,285	2,353
	BN	2,733	1,726	2,120
	D	1,605	1,454	1,896
	C	1,014	790	928
	All	3,398	2,438	2,646
JUN	W	5,743	3,388	3,547
	AN	3,103	2,736	2,817
	BN	2,631	2,603	2,637
	D	2,282	2,320	2,241
	C	1,621	793	823
	All	3,462	2,545	2,599
JUL	W	3,844	3,560	3,389
	AN	4,399	4,635	4,205
	BN	4,509	4,038	3,282
	D	3,347	2,858	2,124
	C	1,568	1,784	1,734
	All	3,597	3,385	2,970

Alternative 9: Upstream—American River at Confluence with Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LLТ
AUG	W	3,295	1,858	1,836
	AN	2,313	1,663	1,677
	BN	2,265	2,048	2,023
	D	2,395	1,357	1,232
	C	1,314	899	797
	All	2,488	1,612	1,560
SEP	W	3,846	3,415	3,366
	AN	2,594	1,838	1,907
	BN	2,205	1,402	1,585
	D	1,691	987	1,010
	C	1,011	427	484
	All	2,495	1,870	1,909
OCT	W	1,607	1,499	1,503
	AN	1,597	1,613	1,318
	BN	1,472	1,617	1,368
	D	1,344	1,114	1,253
	C	1,342	1,517	1,372
	All	1,486	1,454	1,379
NOV	W	3,472	2,540	2,746
	AN	3,100	2,455	2,331
	BN	1,990	1,618	1,637
	D	2,094	1,326	1,587
	C	1,897	1,489	1,608
	All	2,632	1,950	2,075
DEC	W	6,255	6,115	6,102
	AN	3,072	2,856	2,855
	BN	2,609	2,445	2,441
	D	1,675	1,275	1,417
	C	1,443	1,158	1,181
	All	3,457	3,224	3,253

1 **Table 22. Differences^a (Percent Differences) between Pairs of Model Scenarios in the American River**
 2 **at the Confluence with the Sacramento River, Year-Round**

Alternative 9: Upstream—American River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A9_LLТ	NAA vs. A9_LLТ
JAN	W	2,310 (26.4%)	97 (0.9%)
	AN	968 (20.1%)	13 (0.2%)
	BN	-272 (-11.7%)	66 (3.3%)
	D	-305 (-18.4%)	-75 (-5.2%)
	C	-395 (-28.1%)	1 (0.1%)
	All	703 (15.8%)	28 (0.5%)
FEB	W	1,768 (19.3%)	4 (0%)
	AN	1,760 (27.4%)	110 (1.4%)
	BN	601 (13.9%)	21 (0.4%)
	D	115 (6.5%)	140 (8%)
	C	-183 (-16.3%)	15 (1.6%)
	All	920 (17.9%)	54 (0.9%)
MAR	W	863 (14.4%)	6 (0.1%)
	AN	287 (5.4%)	-10 (-0.2%)
	BN	337 (14.4%)	4 (0.1%)
	D	24 (1.1%)	-79 (-3.6%)
	C	-38 (-4.3%)	-9 (-1.1%)
	All	373 (10.2%)	-18 (-0.4%)
APR	W	153 (3%)	9 (0.2%)
	AN	-290 (-8.6%)	14 (0.5%)
	BN	-107 (-3.6%)	98 (3.5%)
	D	208 (12.4%)	203 (12.1%)
	C	6 (0.6%)	-58 (-5.5%)
	All	34 (1.1%)	58 (1.8%)
MAY	W	-1,581 (-26.5%)	45 (1%)
	AN	-1,347 (-36.4%)	67 (3%)
	BN	-614 (-22.5%)	393 (22.8%)
	D	292 (18.2%)	442 (30.4%)
	C	-86 (-8.5%)	138 (17.4%)
	All	-752 (-22.1%)	209 (8.6%)
JUN	W	-2,196 (-38.2%)	158 (4.7%)
	AN	-286 (-9.2%)	81 (3%)
	BN	6 (0.2%)	34 (1.3%)
	D	-41 (-1.8%)	-79 (-3.4%)
	C	-798 (-49.2%)	31 (3.9%)
	All	-863 (-24.9%)	55 (2.2%)
JUL	W	-455 (-11.8%)	-172 (-4.8%)
	AN	-194 (-4.4%)	-430 (-9.3%)
	BN	-1,228 (-27.2%)	-757 (-18.7%)
	D	-1,223 (-36.5%)	-735 (-25.7%)
	C	167 (10.6%)	-49 (-2.8%)
	All	-626 (-17.4%)	-415 (-12.3%)

Alternative 9: Upstream—American River at Confluence with Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
AUG	W	-1,459 (-44.3%)	-22 (-1.2%)
	AN	-636 (-27.5%)	14 (0.8%)
	BN	-242 (-10.7%)	-25 (-1.2%)
	D	-1,163 (-48.5%)	-124 (-9.2%)
	C	-517 (-39.3%)	-102 (-11.4%)
	All	-928 (-37.3%)	-52 (-3.2%)
SEP	W	-480 (-12.5%)	-49 (-1.4%)
	AN	-687 (-26.5%)	69 (3.7%)
	BN	-621 (-28.1%)	183 (13%)
	D	-680 (-40.2%)	23 (2.4%)
	C	-527 (-52.1%)	57 (13.3%)
	All	-585 (-23.5%)	39 (2.1%)
OCT	W	-104 (-6.5%)	5 (0.3%)
	AN	-279 (-17.5%)	-295 (-18.3%)
	BN	-104 (-7.1%)	-249 (-15.4%)
	D	-91 (-6.8%)	139 (12.4%)
	C	30 (2.2%)	-145 (-9.6%)
	All	-107 (-7.2%)	-75 (-5.2%)
NOV	W	-726 (-20.9%)	206 (8.1%)
	AN	-769 (-24.8%)	-123 (-5%)
	BN	-353 (-17.7%)	19 (1.2%)
	D	-508 (-24.2%)	261 (19.7%)
	C	-289 (-15.2%)	119 (8%)
	All	-557 (-21.2%)	125 (6.4%)
DEC	W	-153 (-2.4%)	-13 (-0.2%)
	AN	-217 (-7.1%)	-1 (0%)
	BN	-168 (-6.5%)	-5 (-0.2%)
	D	-257 (-15.4%)	142 (11.1%)
	C	-262 (-18.1%)	24 (2%)
	All	-204 (-5.9%)	30 (0.9%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.9.1.12 Stanislaus River at Confluence with the San Joaquin River**

2 **Table 23. Mean Monthly Flows (cfs) for Model Scenarios in the Stanislaus River at the Confluence with**
 3 **the San Joaquin River, Year-Round**

Alternative 9: Upstream—Stanislaus River at Confluence with the San Joaquin River				
Month	WYT^a	EXISTING CONDITIONS	NAA	A9_LL^T
JAN	W	956	885	885
	AN	843	963	963
	BN	416	369	369
	D	403	366	366
	C	314	265	265
	All	635	615	615
FEB	W	1,285	1,236	1,243
	AN	917	858	858
	BN	551	438	438
	D	562	359	359
	C	490	348	348
	All	827	723	726
MAR	W	2,063	2,217	2,217
	AN	1,295	956	956
	BN	732	548	548
	D	559	390	390
	C	541	444	443
	All	1,167	1,071	1,070
APR	W	2,054	1,965	1,965
	AN	1,719	1,535	1,534
	BN	1,494	1,211	1,211
	D	1,438	1,199	1,197
	C	823	670	668
	All	1,562	1,387	1,387
MAY	W	1,653	1,613	1,614
	AN	1,389	1,243	1,243
	BN	1,238	898	898
	D	1,140	916	914
	C	715	627	625
	All	1,271	1,125	1,124
JUN	W	1,608	1,763	1,769
	AN	1,134	985	985
	BN	663	568	568
	D	447	364	363
	C	332	296	289
	All	932	914	914
JUL	W	1,064	1,080	1,080
	AN	489	454	454
	BN	450	425	425
	D	398	359	355
	C	337	310	306
	All	607	590	588

Alternative 9: Upstream—Stanislaus River at Confluence with the San Joaquin River				
Month	WYT^a	EXISTING CONDITIONS	NAA	A9_LL1
AUG	W	930	717	717
	AN	476	454	454
	BN	423	418	418
	D	387	382	382
	C	341	338	334
	All	560	491	491
SEP	W	1,040	863	863
	AN	502	474	474
	BN	417	407	407
	D	395	390	390
	C	324	317	320
	All	595	533	534
OCT	W	897	845	846
	AN	873	822	822
	BN	903	844	844
	D	984	925	925
	C	689	612	612
	All	867	808	808
NOV	W	426	408	408
	AN	580	524	524
	BN	341	334	334
	D	345	321	321
	C	325	308	308
	All	410	386	386
DEC	W	512	429	418
	AN	722	697	697
	BN	331	353	353
	D	317	294	294
	C	289	272	272
	All	450	417	414

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 24. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Stanislaus River**
 2 **at the Confluence with the San Joaquin River, Year-Round**

Alternative 9: Upstream—Stanislaus River at Confluence with the San Joaquin River			
Month	WYT^b	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
JAN	W	-71 (-7.4%)	0 (0%)
	AN	120 (14.3%)	0 (0%)
	BN	-47 (-11.3%)	0 (0%)
	D	-37 (-9.1%)	0 (0%)
	C	-49 (-15.5%)	0 (0%)
	All	-20 (-3.2%)	0 (0%)
FEB	W	-41 (-3.2%)	8 (0.6%)
	AN	-59 (-6.4%)	0 (0%)
	BN	-114 (-20.6%)	-1 (-0.1%)
	D	-203 (-36.1%)	0 (0%)
	C	-142 (-29%)	0 (0%)
	All	-101 (-12.3%)	2 (0.3%)
MAR	W	154 (7.4%)	0 (0%)
	AN	-339 (-26.2%)	0 (0%)
	BN	-184 (-25.2%)	0 (0%)
	D	-169 (-30.2%)	-1 (-0.1%)
	C	-98 (-18.1%)	-1 (-0.2%)
	All	-96 (-8.2%)	0 (0%)
APR	W	-89 (-4.3%)	0 (0%)
	AN	-185 (-10.7%)	0 (0%)
	BN	-283 (-18.9%)	0 (0%)
	D	-241 (-16.8%)	-1 (-0.1%)
	C	-155 (-18.8%)	-2 (-0.3%)
	All	-175 (-11.2%)	-1 (0%)
MAY	W	-39 (-2.3%)	1 (0.1%)
	AN	-145 (-10.5%)	1 (0%)
	BN	-340 (-27.4%)	0 (0%)
	D	-227 (-19.9%)	-2 (-0.3%)
	C	-90 (-12.6%)	-2 (-0.3%)
	All	-147 (-11.6%)	0 (0%)
JUN	W	161 (10%)	6 (0.3%)
	AN	-149 (-13.1%)	0 (0%)
	BN	-95 (-14.4%)	0 (-0.1%)
	D	-84 (-18.7%)	-1 (-0.3%)
	C	-43 (-13%)	-7 (-2.4%)
	All	-19 (-2%)	0 (0%)
JUL	W	17 (1.6%)	0 (0%)
	AN	-35 (-7.2%)	0 (0%)
	BN	-25 (-5.5%)	0 (0%)
	D	-43 (-10.8%)	-4 (-1.2%)
	C	-31 (-9.3%)	-5 (-1.5%)
	All	-19 (-3.1%)	-2 (-0.3%)

Alternative 9: Upstream—Stanislaus River at Confluence with the San Joaquin River			
Month	WYT^b	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
AUG	W	-212 (-22.8%)	0 (0%)
	AN	-22 (-4.6%)	0 (0%)
	BN	-4 (-1%)	0 (0%)
	D	-5 (-1.2%)	0 (0%)
	C	-7 (-2%)	-4 (-1.1%)
	All	-69 (-12.4%)	-1 (-0.1%)
SEP	W	-177 (-17%)	0 (0%)
	AN	-28 (-5.6%)	0 (0%)
	BN	-10 (-2.4%)	0 (0%)
	D	-5 (-1.3%)	0 (0%)
	C	-5 (-1.4%)	3 (1%)
	All	-61 (-10.2%)	1 (0.1%)
OCT	W	-52 (-5.7%)	1 (0.1%)
	AN	-51 (-5.8%)	0 (0%)
	BN	-59 (-6.5%)	0 (0%)
	D	-59 (-6%)	0 (0%)
	C	-77 (-11.1%)	0 (0%)
	All	-59 (-6.8%)	0 (0%)
NOV	W	-18 (-4.3%)	0 (0%)
	AN	-56 (-9.6%)	0 (0%)
	BN	-8 (-2.3%)	0 (0%)
	D	-23 (-6.7%)	0 (0%)
	C	-16 (-5.1%)	0 (0%)
	All	-24 (-5.9%)	0 (0%)
DEC	W	-94 (-18.4%)	-11 (-2.6%)
	AN	-25 (-3.5%)	0 (0%)
	BN	23 (6.8%)	0 (0%)
	D	-23 (-7.3%)	0 (0%)
	C	-16 (-5.7%)	0 (0%)
	All	-36 (-8%)	-3 (-0.8%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.9.2 In Delta**

2 **11C.9.2.1 OMR Flow (Old and Middle Rivers)**

3 **Table 25. Mean Monthly Flows (cfs) for Model Scenarios in the Old and Middle Rivers, Year-Round**

Alternative 9: In Delta—OMR Flow (Old and Middle Rivers)				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	-1,820	-1,606	4,473
	AN	-3,553	-3,446	2,617
	BN	-4,240	-3,803	3,019
	D	-4,664	-4,675	2,276
	C	-4,130	-3,684	1,780
	All	-3,449	-3,228	3,077
FEB	W	-2,365	-2,293	3,528
	AN	-3,274	-3,147	5,009
	BN	-3,437	-3,290	3,139
	D	-3,986	-3,502	2,485
	C	-3,191	-3,047	1,991
	All	-3,158	-2,964	3,225
MAR	W	-1,600	-1,454	4,294
	AN	-4,251	-3,815	3,976
	BN	-4,147	-3,834	3,453
	D	-2,852	-2,614	2,135
	C	-2,010	-1,636	1,532
	All	-2,758	-2,487	3,226
APR	W	2,431	2,415	8,451
	AN	1,058	787	6,203
	BN	677	214	5,073
	D	-268	-615	2,769
	C	-950	-845	1,562
	All	843	659	5,290
MAY	W	509	396	7,152
	AN	272	-237	5,365
	BN	-647	-1,010	4,181
	D	-1,020	-911	2,322
	C	353	155	1,475
	All	-4,164	-4,369	4,492
JUN	W	-4,761	-4,454	1,953
	AN	-4,154	-3,420	2,183
	BN	-3,301	-2,592	1,208
	D	-2,250	-2,143	290
	C	-3,780	-3,504	77
	All	-8,959	-8,699	1,220

Alternative 9: In Delta—OMR Flow (Old and Middle Rivers)				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JUL	W	-9,919	-7,962	1,550
	AN	-10,853	-9,942	1,080
	BN	-10,891	-9,505	594
	D	-8,058	-5,234	168
	C	-9,715	-8,473	-85
	All	-10,062	-10,518	775
AUG	W	-10,348	-10,985	1,909
	AN	-10,044	-9,374	1,186
	BN	-10,122	-7,259	920
	D	-4,384	-3,192	662
	C	-9,283	-8,604	402
	All	-9,317	-7,580	1,140
SEP	W	-9,163	-9,002	2,764
	AN	-8,575	-8,392	2,015
	BN	-8,081	-5,165	1,664
	D	-4,807	-3,966	1,492
	C	-8,236	-6,868	1,100
	All	-8,347	-5,049	1,944
OCT	W	-7,643	-3,648	2,237
	AN	-7,804	-4,793	2,151
	BN	-6,961	-4,103	2,400
	D	-6,440	-3,920	2,412
	C	-7,568	-4,427	1,912
	All	-8,902	-6,527	2,243
NOV	W	-7,264	-6,003	1,500
	AN	-7,997	-5,542	2,129
	BN	-7,136	-5,007	2,204
	D	-5,294	-4,389	2,218
	C	-7,592	-5,636	1,905
	All	-5,542	-5,591	1,929
DEC	W	-6,987	-7,050	2,505
	AN	-7,304	-7,040	1,438
	BN	-7,214	-7,006	2,544
	D	-6,166	-4,173	2,150
	C	-6,513	-6,155	1,711
	All	-6,513	-6,155	2,161

1 **Table 26. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Old and Middle**
 2 **Rivers, Year-Round**

Alternative 9: In Delta—OMR Flow (Old and Middle Rivers)			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
JAN	W	6,292 (345.8%)	6,078 (378.5%)
	AN	6,170 (173.7%)	6,064 (175.9%)
	BN	7,259 (171.2%)	6,822 (179.4%)
	D	6,940 (148.8%)	6,951 (148.7%)
	C	5,909 (143.1%)	5,464 (148.3%)
	All	6,525 (189.2%)	6,305 (195.3%)
FEB	W	5,893 (249.2%)	5,821 (253.9%)
	AN	8,283 (253%)	8,155 (259.2%)
	BN	6,576 (191.3%)	6,430 (195.4%)
	D	6,471 (162.4%)	5,987 (171%)
	C	5,182 (162.4%)	5,038 (165.3%)
	All	6,382 (202.1%)	6,188 (208.8%)
MAR	W	5,894 (368.3%)	5,748 (395.4%)
	AN	8,227 (193.5%)	7,791 (204.2%)
	BN	7,600 (183.3%)	7,288 (190.1%)
	D	4,987 (174.8%)	4,748 (181.7%)
	C	3,542 (176.2%)	3,168 (193.6%)
	All	5,984 (217%)	5,713 (229.7%)
APR	W	6,020 (247.6%)	6,036 (249.9%)
	AN	5,144 (486.1%)	5,415 (687.9%)
	BN	4,396 (649.3%)	4,859 (2,270.8%)
	D	3,037 (1,133.6%)	3,384 (550%)
	C	2,512 (264.3%)	2,407 (284.8%)
	All	4,446 (527.1%)	4,631 (703%)
MAY	W	5,501 (333.2%)	5,596 (359.8%)
	AN	4,855 (953.1%)	4,969 (1,255.3%)
	BN	3,909 (1,438.9%)	4,419 (1,860.7%)
	D	2,969 (459%)	3,332 (329.9%)
	C	2,494 (244.6%)	2,386 (261.8%)
	All	4,139 (1,171.7%)	4,337 (2,789.8%)
JUN	W	6,116 (146.9%)	6,322 (144.7%)
	AN	6,944 (145.9%)	6,637 (149%)
	BN	5,362 (129.1%)	4,628 (135.3%)
	D	3,590 (108.8%)	2,882 (111.2%)
	C	2,327 (103.4%)	2,220 (103.6%)
	All	5,000 (132.3%)	4,723 (134.8%)
JUL	W	10,509 (117.3%)	10,249 (117.8%)
	AN	10,999 (110.9%)	9,042 (113.6%)
	BN	11,446 (105.5%)	10,536 (106%)
	D	11,059 (101.5%)	9,673 (101.8%)
	C	7,973 (99%)	5,149 (98.4%)
	All	10,490 (108%)	9,249 (109.2%)

Alternative 9: In Delta—OMR Flow (Old and Middle Rivers)			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
AUG	W	11,972 (119%)	12,428 (118.2%)
	AN	11,535 (111.5%)	12,171 (110.8%)
	BN	10,964 (109.2%)	10,294 (109.8%)
	D	10,784 (106.5%)	7,921 (109.1%)
	C	4,786 (109.2%)	3,594 (112.6%)
	All	10,424 (112.3%)	9,744 (113.3%)
SEP	W	12,081 (129.7%)	10,345 (136.5%)
	AN	11,178 (122%)	11,017 (122.4%)
	BN	10,239 (119.4%)	10,056 (119.8%)
	D	9,574 (118.5%)	6,657 (128.9%)
	C	5,906 (122.9%)	5,065 (127.7%)
	All	10,180 (123.6%)	8,812 (128.3%)
OCT	W	10,584 (126.8%)	7,286 (144.3%)
	AN	9,794 (128.2%)	5,800 (159%)
	BN	10,204 (130.7%)	7,193 (150.1%)
	D	9,373 (134.7%)	6,515 (158.8%)
	C	8,353 (129.7%)	5,833 (148.8%)
	All	9,811 (129.6%)	6,671 (150.7%)
NOV	W	10,402 (116.8%)	8,027 (123%)
	AN	9,393 (129.3%)	8,132 (135.5%)
	BN	10,200 (127.6%)	7,746 (139.8%)
	D	9,354 (131.1%)	7,225 (144.3%)
	C	7,199 (136%)	6,295 (143.4%)
	All	9,521 (125.4%)	7,565 (134.2%)
DEC	W	8,047 (145.2%)	8,096 (144.8%)
	AN	8,426 (120.6%)	8,488 (120.4%)
	BN	9,848 (134.8%)	9,585 (136.1%)
	D	9,364 (129.8%)	9,156 (130.7%)
	C	7,877 (127.7%)	5,884 (141%)
	All	8,674 (133.2%)	8,317 (135.1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.9.2.2 Sacramento River Downstream of North Delta Diversion Facility**

2 **Table 27. Mean Monthly Flows (cfs) for Model Scenarios for the Sacramento River Downstream of the**
 3 **North Delta Diversion Facility, Year-Round**

Alternative 9: In Delta—Sacramento River Downstream of North Delta Diversion Facility				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	50,961	52,878	51,284
	AN	39,863	40,484	38,473
	BN	23,781	22,653	21,278
	D	17,444	17,451	16,286
	C	14,281	15,073	13,540
	All	31,971	32,595	31,080
FEB	W	57,314	59,847	58,328
	AN	45,676	47,786	46,267
	BN	31,934	31,592	29,941
	D	21,202	21,107	20,243
	C	14,708	14,291	13,919
	All	37,116	38,087	36,857
MAR	W	49,416	50,993	48,918
	AN	44,495	45,088	42,536
	BN	24,489	22,915	21,609
	D	20,656	20,650	19,473
	C	13,245	13,137	12,714
	All	32,834	33,134	31,560
APR	W	37,809	37,543	35,337
	AN	25,979	24,931	23,766
	BN	17,752	17,128	16,921
	D	12,990	12,904	13,721
	C	10,229	10,365	10,333
	All	23,169	22,826	22,096
MAY	W	31,948	24,500	24,704
	AN	21,021	18,657	19,044
	BN	14,227	12,394	14,190
	D	10,959	11,427	14,347
	C	7,749	8,011	8,661
	All	19,175	16,295	17,459
JUN	W	23,900	18,603	18,559
	AN	16,309	16,051	16,301
	BN	13,576	13,898	13,597
	D	12,222	12,656	12,771
	C	9,884	10,123	9,855
	All	16,412	14,880	14,837
JUL	W	19,876	21,425	20,891
	AN	21,574	22,727	22,212
	BN	20,953	20,513	19,039
	D	19,272	18,957	16,983
	C	15,397	13,767	12,989
	All	19,520	19,797	18,754

Alternative 9: In Delta—Sacramento River Downstream of North Delta Diversion Facility				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
AUG	W	15,816	16,064	15,854
	AN	15,877	17,491	16,779
	BN	15,643	16,232	15,759
	D	16,965	14,351	13,418
	C	10,095	8,996	9,924
	All	15,210	14,891	14,571
SEP	W	18,254	27,212	28,217
	AN	13,198	21,006	20,943
	BN	12,427	12,306	12,502
	D	12,155	8,620	8,393
	C	8,485	7,292	7,053
	All	13,751	16,763	17,021
OCT	W	13,505	13,277	12,917
	AN	11,118	11,864	10,362
	BN	11,557	12,124	10,591
	D	10,279	10,487	10,309
	C	10,073	9,964	8,711
	All	11,613	11,776	10,958
NOV	W	19,447	19,285	19,189
	AN	15,309	15,925	15,692
	BN	12,574	13,037	13,674
	D	12,868	11,914	12,182
	C	9,633	9,295	9,725
	All	14,788	14,647	14,812
DEC	W	39,708	37,022	35,191
	AN	21,663	22,629	21,671
	BN	16,678	16,692	16,455
	D	15,442	15,159	14,881
	C	11,816	10,632	11,244
	All	23,727	22,784	22,051

1 **Table 28. Differences^a (Percent Differences) between Pairs of Model Scenarios for the Sacramento**
 2 **River Downstream of the North Delta Diversion Facility, Year-Round**

Alternative 9: In Delta—Sacramento River Downstream of North Delta Diversion Facility			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
JAN	W	323 (0.6%)	-1,594 (-3%)
	AN	-1,390 (-3.5%)	-2,012 (-5%)
	BN	-2,503 (-10.5%)	-1,375 (-6.1%)
	D	-1,158 (-6.6%)	-1,165 (-6.7%)
	C	-741 (-5.2%)	-1,533 (-10.2%)
	All	-891 (-2.8%)	-1,515 (-4.6%)
FEB	W	1,014 (1.8%)	-1,519 (-2.5%)
	AN	590 (1.3%)	-1,520 (-3.2%)
	BN	-1,993 (-6.2%)	-1,651 (-5.2%)
	D	-959 (-4.5%)	-864 (-4.1%)
	C	-789 (-5.4%)	-372 (-2.6%)
	All	-258 (-0.7%)	-1,230 (-3.2%)
MAR	W	-498 (-1%)	-2,075 (-4.1%)
	AN	-1,959 (-4.4%)	-2,552 (-5.7%)
	BN	-2,879 (-11.8%)	-1,305 (-5.7%)
	D	-1,183 (-5.7%)	-1,177 (-5.7%)
	C	-531 (-4%)	-423 (-3.2%)
	All	-1,274 (-3.9%)	-1,574 (-4.8%)
APR	W	-2,471 (-6.5%)	-2,206 (-5.9%)
	AN	-2,213 (-8.5%)	-1,165 (-4.7%)
	BN	-830 (-4.7%)	-207 (-1.2%)
	D	731 (5.6%)	817 (6.3%)
	C	104 (1%)	-32 (-0.3%)
	All	-1,073 (-4.6%)	-731 (-3.2%)
MAY	W	-7,244 (-22.7%)	204 (0.8%)
	AN	-1,977 (-9.4%)	387 (2.1%)
	BN	-37 (-0.3%)	1,795 (14.5%)
	D	3,388 (30.9%)	2,921 (25.6%)
	C	911 (11.8%)	649 (8.1%)
	All	-1,716 (-8.9%)	1,164 (7.1%)
JUN	W	-5,340 (-22.3%)	-44 (-0.2%)
	AN	-8 (0%)	250 (1.6%)
	BN	22 (0.2%)	-300 (-2.2%)
	D	548 (4.5%)	115 (0.9%)
	C	-28 (-0.3%)	-267 (-2.6%)
	All	-1,574 (-9.6%)	-42 (-0.3%)
JUL	W	1,015 (5.1%)	-534 (-2.5%)
	AN	638 (3%)	-516 (-2.3%)
	BN	-1,914 (-9.1%)	-1,473 (-7.2%)
	D	-2,289 (-11.9%)	-1,975 (-10.4%)
	C	-2,408 (-15.6%)	-778 (-5.7%)
	All	-766 (-3.9%)	-1,044 (-5.3%)

Alternative 9: In Delta—Sacramento River Downstream of North Delta Diversion Facility			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
AUG	W	38 (0.2%)	-210 (-1.3%)
	AN	902 (5.7%)	-712 (-4.1%)
	BN	117 (0.7%)	-473 (-2.9%)
	D	-3,547 (-20.9%)	-933 (-6.5%)
	C	-171 (-1.7%)	928 (10.3%)
	All	-640 (-4.2%)	-321 (-2.2%)
SEP	W	9,963 (54.6%)	1,005 (3.7%)
	AN	7,745 (58.7%)	-63 (-0.3%)
	BN	75 (0.6%)	195 (1.6%)
	D	-3,762 (-31%)	-228 (-2.6%)
	C	-1,432 (-16.9%)	-239 (-3.3%)
	All	3,270 (23.8%)	258 (1.5%)
OCT	W	-588 (-4.4%)	-360 (-2.7%)
	AN	-757 (-6.8%)	-1,502 (-12.7%)
	BN	-967 (-8.4%)	-1,533 (-12.6%)
	D	30 (0.3%)	-177 (-1.7%)
	C	-1,362 (-13.5%)	-1,254 (-12.6%)
	All	-655 (-5.6%)	-818 (-6.9%)
NOV	W	-258 (-1.3%)	-96 (-0.5%)
	AN	383 (2.5%)	-233 (-1.5%)
	BN	1,100 (8.8%)	637 (4.9%)
	D	-687 (-5.3%)	268 (2.2%)
	C	93 (1%)	430 (4.6%)
	All	25 (0.2%)	166 (1.1%)
DEC	W	-4,517 (-11.4%)	-1,831 (-4.9%)
	AN	8 (0%)	-958 (-4.2%)
	BN	-223 (-1.3%)	-237 (-1.4%)
	D	-561 (-3.6%)	-277 (-1.8%)
	C	-572 (-4.8%)	612 (5.8%)
	All	-1,676 (-7.1%)	-733 (-3.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.9.2.3 Sacramento River at Rio Vista**

2 **Table 29. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Rio Vista,**
 3 **Year-Round**

Alternative 9: In Delta—Sacramento River at Rio Vista				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	71,111	78,551	80,189
	AN	41,963	42,919	42,085
	BN	20,943	19,991	17,380
	D	14,895	14,927	11,423
	C	11,853	12,601	9,077
	All	37,268	39,721	38,388
FEB	W	80,958	89,989	91,621
	AN	52,542	55,363	55,700
	BN	30,159	29,442	29,114
	D	19,320	19,422	16,717
	C	12,247	11,956	9,929
	All	44,541	47,675	47,295
MAR	W	63,763	68,663	68,974
	AN	46,750	48,513	48,637
	BN	20,980	19,562	16,633
	D	17,656	17,679	15,421
	C	10,710	10,684	8,994
	All	36,084	37,655	36,529
APR	W	38,214	38,422	37,812
	AN	22,726	21,855	20,685
	BN	14,652	14,207	11,773
	D	10,331	10,299	8,432
	C	7,665	7,816	7,028
	All	21,333	21,211	19,905
MAY	W	26,933	20,046	18,440
	AN	17,008	14,948	12,935
	BN	10,924	9,355	8,750
	D	8,135	8,564	8,069
	C	5,305	5,554	6,071
	All	15,456	12,833	11,893
JUN	W	16,557	11,418	11,503
	AN	9,887	9,220	9,304
	BN	7,001	7,241	6,941
	D	6,020	6,335	6,451
	C	4,333	4,513	6,393
	All	9,847	8,257	8,546
JUL	W	11,125	12,181	12,667
	AN	12,128	12,927	13,086
	BN	11,686	11,357	10,387
	D	10,523	10,307	8,915
	C	7,736	6,596	6,044
	All	10,739	10,921	10,546

Alternative 9: In Delta—Sacramento River at Rio Vista				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LLТ
AUG	W	8,507	8,650	8,693
	AN	8,538	9,648	9,208
	BN	8,371	8,753	8,482
	D	9,264	7,417	6,761
	C	4,390	3,615	4,277
	All	8,052	7,806	7,662
SEP	W	10,767	21,199	22,467
	AN	6,788	12,832	12,971
	BN	6,283	6,197	6,511
	D	6,116	3,644	3,557
	C	3,588	2,996	2,707
	All	7,348	10,896	11,310
OCT	W	8,718	8,287	8,426
	AN	6,183	7,207	5,874
	BN	6,258	6,976	5,745
	D	5,312	5,727	5,728
	C	5,215	4,969	4,217
	All	6,667	6,858	6,387
NOV	W	15,829	15,879	15,736
	AN	11,333	12,156	11,752
	BN	8,184	9,071	9,557
	D	8,733	8,061	7,723
	C	5,473	5,565	5,439
	All	10,793	10,946	10,832
DEC	W	43,367	40,431	39,808
	AN	19,040	19,936	18,148
	BN	13,987	14,049	13,344
	D	11,999	11,687	10,040
	C	8,131	7,186	7,528
	All	22,749	21,753	20,862

1 **Table 30. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Sacramento**
 2 **River at Rio Vista, Year-Round**

Alternative 9: In Delta—Sacramento River at Rio Vista			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1T	NAA vs. A9_LL1T
JAN	W	9,078 (12.8%)	1,638 (2.1%)
	AN	122 (0.3%)	-834 (-1.9%)
	BN	-3,562 (-17%)	-2,610 (-13.1%)
	D	-3,472 (-23.3%)	-3,504 (-23.5%)
	C	-2,776 (-23.4%)	-3,524 (-28%)
	All	1,120 (3%)	-1,333 (-3.4%)
FEB	W	10,663 (13.2%)	1,632 (1.8%)
	AN	3,157 (6%)	337 (0.6%)
	BN	-1,045 (-3.5%)	-328 (-1.1%)
	D	-2,603 (-13.5%)	-2,706 (-13.9%)
	C	-2,318 (-18.9%)	-2,026 (-16.9%)
	All	2,754 (6.2%)	-380 (-0.8%)
MAR	W	5,210 (8.2%)	311 (0.5%)
	AN	1,887 (4%)	125 (0.3%)
	BN	-4,346 (-20.7%)	-2,929 (-15%)
	D	-2,234 (-12.7%)	-2,257 (-12.8%)
	C	-1,716 (-16%)	-1,689 (-15.8%)
	All	445 (1.2%)	-1,126 (-3%)
APR	W	-402 (-1.1%)	-611 (-1.6%)
	AN	-2,041 (-9%)	-1,169 (-5.4%)
	BN	-2,880 (-19.7%)	-2,435 (-17.1%)
	D	-1,900 (-18.4%)	-1,867 (-18.1%)
	C	-637 (-8.3%)	-789 (-10.1%)
	All	-1,428 (-6.7%)	-1,306 (-6.2%)
MAY	W	-8,493 (-31.5%)	-1,606 (-8%)
	AN	-4,073 (-23.9%)	-2,013 (-13.5%)
	BN	-2,174 (-19.9%)	-605 (-6.5%)
	D	-66 (-0.8%)	-495 (-5.8%)
	C	766 (14.4%)	517 (9.3%)
	All	-3,562 (-23%)	-940 (-7.3%)
JUN	W	-5,054 (-30.5%)	85 (0.7%)
	AN	-583 (-5.9%)	84 (0.9%)
	BN	-60 (-0.9%)	-300 (-4.1%)
	D	431 (7.2%)	115 (1.8%)
	C	2,060 (47.6%)	1,880 (41.7%)
	All	-1,302 (-13.2%)	289 (3.5%)
JUL	W	1,542 (13.9%)	485 (4%)
	AN	958 (7.9%)	159 (1.2%)
	BN	-1,299 (-11.1%)	-970 (-8.5%)
	D	-1,608 (-15.3%)	-1,392 (-13.5%)
	C	-1,692 (-21.9%)	-553 (-8.4%)
	All	-193 (-1.8%)	-375 (-3.4%)

Alternative 9: In Delta—Sacramento River at Rio Vista			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1T	NAA vs. A9_LL1T
AUG	W	186 (2.2%)	43 (0.5%)
	AN	670 (7.8%)	-440 (-4.6%)
	BN	111 (1.3%)	-270 (-3.1%)
	D	-2,504 (-27%)	-656 (-8.8%)
	C	-113 (-2.6%)	662 (18.3%)
	All	-390 (-4.8%)	-144 (-1.8%)
SEP	W	11,700 (108.7%)	1,268 (6%)
	AN	6,183 (91.1%)	139 (1.1%)
	BN	227 (3.6%)	313 (5.1%)
	D	-2,559 (-41.8%)	-87 (-2.4%)
	C	-881 (-24.6%)	-289 (-9.6%)
	All	3,963 (53.9%)	414 (3.8%)
OCT	W	-291 (-3.3%)	139 (1.7%)
	AN	-309 (-5%)	-1,333 (-18.5%)
	BN	-513 (-8.2%)	-1,231 (-17.6%)
	D	416 (7.8%)	1 (0%)
	C	-998 (-19.1%)	-752 (-15.1%)
	All	-280 (-4.2%)	-471 (-6.9%)
NOV	W	-93 (-0.6%)	-143 (-0.9%)
	AN	419 (3.7%)	-404 (-3.3%)
	BN	1,373 (16.8%)	487 (5.4%)
	D	-1,009 (-11.6%)	-338 (-4.2%)
	C	-35 (-0.6%)	-126 (-2.3%)
	All	40 (0.4%)	-114 (-1%)
DEC	W	-3,559 (-8.2%)	-623 (-1.5%)
	AN	-892 (-4.7%)	-1,788 (-9%)
	BN	-644 (-4.6%)	-705 (-5%)
	D	-1,959 (-16.3%)	-1,648 (-14.1%)
	C	-603 (-7.4%)	342 (4.8%)
	All	-1,887 (-8.3%)	-891 (-4.1%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.9.2.4 Delta Outflow**

2 **Table 31. Mean Monthly Flows (cfs) for Model Scenarios at the Delta Outflow, Year-Round**

Alternative 9: In Delta—Delta Outflow				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	85,900	94,620	97,198
	AN	49,448	51,100	53,318
	BN	22,968	22,301	23,930
	D	14,736	14,732	15,597
	C	11,343	12,651	11,658
	All	43,289	46,372	47,837
FEB	W	96,835	107,085	108,810
	AN	62,321	65,873	69,090
	BN	36,766	36,084	38,460
	D	20,915	21,461	22,776
	C	12,991	12,798	13,626
	All	52,594	56,338	58,171
MAR	W	78,956	84,471	85,974
	AN	54,171	56,737	58,768
	BN	24,029	22,467	24,376
	D	19,880	19,985	20,872
	C	11,911	12,215	12,572
	All	43,172	45,097	46,443
APR	W	54,394	54,562	52,374
	AN	31,975	30,576	28,278
	BN	21,928	20,641	19,364
	D	14,142	13,413	14,077
	C	9,053	9,294	9,424
	All	30,099	29,603	28,520
MAY	W	41,040	32,880	31,309
	AN	24,200	21,709	20,081
	BN	16,299	13,596	14,324
	D	10,487	10,375	12,909
	C	6,000	6,286	7,118
	All	22,517	19,121	19,187
JUN	W	23,451	15,640	16,323
	AN	11,801	10,676	11,618
	BN	8,004	8,943	8,979
	D	6,636	7,689	7,545
	C	5,322	5,632	5,659
	All	12,765	10,560	10,893
JUL	W	11,441	11,407	10,186
	AN	9,430	12,225	8,669
	BN	7,151	7,668	5,965
	D	5,024	6,448	5,191
	C	4,238	5,832	5,104
	All	7,951	8,984	7,403

Alternative 9: In Delta—Delta Outflow				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LLТ
AUG	W	5,341	4,308	4,234
	AN	4,000	4,713	4,216
	BN	4,000	5,129	4,490
	D	4,829	5,348	5,455
	C	4,077	4,433	5,676
	All	4,618	4,754	4,754
SEP	W	9,569	20,078	20,595
	AN	3,672	11,581	12,095
	BN	3,445	3,428	3,899
	D	3,350	3,021	3,000
	C	3,000	3,036	3,000
	All	5,334	9,754	10,063
OCT	W	6,487	9,520	8,710
	AN	4,021	8,982	6,406
	BN	4,477	8,054	6,545
	D	4,157	7,294	6,305
	C	4,158	6,607	4,724
	All	4,931	8,276	6,892
NOV	W	14,232	15,987	15,824
	AN	9,683	11,529	11,203
	BN	5,864	8,681	8,694
	D	6,943	8,052	7,681
	C	5,045	5,725	5,681
	All	9,193	10,844	10,658
DEC	W	48,185	45,191	46,340
	AN	18,014	19,119	18,822
	BN	11,950	12,231	12,294
	D	8,884	8,828	8,034
	C	5,531	6,560	5,154
	All	22,714	22,113	22,064

1 **Table 32. Differences^a (Percent Differences) between Pairs of Model Scenarios at the Delta Outflow,**
 2 **Year-Round**

Alternative 9: In Delta—Delta Outflow			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
JAN	W	11,298 (13.2%)	2,578 (2.7%)
	AN	3,870 (7.8%)	2,218 (4.3%)
	BN	962 (4.2%)	1,629 (7.3%)
	D	861 (5.8%)	865 (5.9%)
	C	315 (2.8%)	-992 (-7.8%)
	All	4,548 (10.5%)	1,465 (3.2%)
FEB	W	11,975 (12.4%)	1,725 (1.6%)
	AN	6,768 (10.9%)	3,216 (4.9%)
	BN	1,693 (4.6%)	2,375 (6.6%)
	D	1,860 (8.9%)	1,315 (6.1%)
	C	635 (4.9%)	828 (6.5%)
	All	5,578 (10.6%)	1,833 (3.3%)
MAR	W	7,018 (8.9%)	1,502 (1.8%)
	AN	4,597 (8.5%)	2,031 (3.6%)
	BN	347 (1.4%)	1,909 (8.5%)
	D	991 (5%)	886 (4.4%)
	C	661 (5.5%)	357 (2.9%)
	All	3,272 (7.6%)	1,346 (3%)
APR	W	-2,020 (-3.7%)	-2,188 (-4%)
	AN	-3,698 (-11.6%)	-2,298 (-7.5%)
	BN	-2,564 (-11.7%)	-1,277 (-6.2%)
	D	-65 (-0.5%)	664 (4.9%)
	C	371 (4.1%)	131 (1.4%)
	All	-1,579 (-5.2%)	-1,083 (-3.7%)
MAY	W	-9,731 (-23.7%)	-1,571 (-4.8%)
	AN	-4,119 (-17%)	-1,629 (-7.5%)
	BN	-1,975 (-12.1%)	728 (5.4%)
	D	2,422 (23.1%)	2,534 (24.4%)
	C	1,118 (18.6%)	832 (13.2%)
	All	-3,330 (-14.8%)	66 (0.3%)
JUN	W	-7,128 (-30.4%)	683 (4.4%)
	AN	-183 (-1.6%)	942 (8.8%)
	BN	975 (12.2%)	35 (0.4%)
	D	910 (13.7%)	-144 (-1.9%)
	C	337 (6.3%)	28 (0.5%)
	All	-1,871 (-14.7%)	333 (3.2%)
JUL	W	-1,255 (-11%)	-1,221 (-10.7%)
	AN	-761 (-8.1%)	-3,555 (-29.1%)
	BN	-1,186 (-16.6%)	-1,703 (-22.2%)
	D	168 (3.3%)	-1,257 (-19.5%)
	C	866 (20.4%)	-728 (-12.5%)
	All	-548 (-6.9%)	-1,581 (-17.6%)

Alternative 9: In Delta—Delta Outflow			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1T	NAA vs. A9_LL1T
AUG	W	-1,107 (-20.7%)	-74 (-1.7%)
	AN	216 (5.4%)	-497 (-10.5%)
	BN	490 (12.3%)	-639 (-12.5%)
	D	626 (13%)	107 (2%)
	C	1,599 (39.2%)	1,243 (28%)
	All	136 (2.9%)	0 (0%)
SEP	W	11,026 (115.2%)	517 (2.6%)
	AN	8,423 (229.4%)	514 (4.4%)
	BN	454 (13.2%)	471 (13.7%)
	D	-350 (-10.5%)	-21 (-0.7%)
	C	0 (0%)	-36 (-1.2%)
	All	4,729 (88.7%)	310 (3.2%)
OCT	W	2,223 (34.3%)	-810 (-8.5%)
	AN	2,385 (59.3%)	-2,576 (-28.7%)
	BN	2,068 (46.2%)	-1,509 (-18.7%)
	D	2,148 (51.7%)	-989 (-13.6%)
	C	566 (13.6%)	-1,882 (-28.5%)
	All	1,961 (39.8%)	-1,384 (-16.7%)
NOV	W	1,592 (11.2%)	-164 (-1%)
	AN	1,520 (15.7%)	-326 (-2.8%)
	BN	2,829 (48.2%)	12 (0.1%)
	D	738 (10.6%)	-372 (-4.6%)
	C	636 (12.6%)	-44 (-0.8%)
	All	1,465 (15.9%)	-185 (-1.7%)
DEC	W	-1,845 (-3.8%)	1,149 (2.5%)
	AN	808 (4.5%)	-297 (-1.6%)
	BN	344 (2.9%)	63 (0.5%)
	D	-850 (-9.6%)	-794 (-9%)
	C	-377 (-6.8%)	-1,406 (-21.4%)
	All	-650 (-2.9%)	-48 (-0.2%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

1 **11C.9.2.5 San Joaquin River at Vernalis**

2 **Table 33. Mean Monthly Flows (cfs) for Model Scenarios in the San Joaquin River at Vernalis,**
 3 **Year-Round**

Alternative 9: In Delta—San Joaquin River at Vernalis				
Month	WYT^a	EXISTING CONDITIONS	NAA	A9_LL1T
JAN	W	9,089	9,681	9,778
	AN	5,447	6,011	6,037
	BN	2,326	2,220	2,241
	D	2,270	2,202	2,204
	C	1,667	1,592	1,592
	All	4,777	5,018	5,055
FEB	W	12,750	13,191	13,202
	AN	6,965	6,721	6,722
	BN	2,983	2,841	2,808
	D	2,590	2,269	2,271
	C	2,120	1,941	1,941
	All	6,388	6,361	6,359
MAR	W	14,374	15,235	15,245
	AN	6,284	6,364	6,365
	BN	2,949	2,476	2,476
	D	2,479	2,146	2,145
	C	1,813	1,688	1,687
	All	6,648	6,763	6,766
APR	W	11,955	12,457	12,455
	AN	6,014	6,042	6,043
	BN	4,490	3,922	3,923
	D	3,656	3,112	3,110
	C	1,983	1,796	1,794
	All	6,351	6,291	6,290
MAY	W	12,109	12,632	12,630
	AN	5,381	5,092	5,091
	BN	4,074	3,657	3,658
	D	3,308	2,823	2,820
	C	1,964	1,798	1,795
	All	6,148	6,069	6,067
JUN	W	11,058	6,820	6,826
	AN	2,965	2,678	2,678
	BN	2,051	1,870	1,871
	D	1,537	1,291	1,289
	C	1,020	956	952
	All	4,583	3,206	3,207
JUL	W	7,654	4,345	4,344
	AN	1,958	1,801	1,801
	BN	1,491	1,381	1,383
	D	1,295	1,100	1,094
	C	898	858	853
	All	3,239	2,184	2,182

Alternative 9: In Delta—San Joaquin River at Vernalis				
Month	WYT^a	EXISTING CONDITIONS	NAA	A9_LLТ
AUG	W	3,539	2,645	2,643
	AN	2,000	1,699	1,699
	BN	1,460	1,375	1,376
	D	1,375	1,225	1,224
	C	1,007	987	983
	All	2,072	1,710	1,709
SEP	W	3,519	3,127	3,126
	AN	2,355	2,164	2,164
	BN	1,829	1,748	1,749
	D	1,796	1,643	1,642
	C	1,402	1,378	1,379
	All	2,338	2,144	2,144
OCT	W	2,760	2,726	2,712
	AN	2,745	2,595	2,595
	BN	2,502	2,348	2,348
	D	2,945	2,790	2,791
	C	2,213	2,031	2,031
	All	2,639	2,515	2,511
NOV	W	2,534	2,411	2,418
	AN	3,182	3,193	3,195
	BN	2,150	1,997	2,052
	D	2,272	2,217	2,253
	C	1,968	1,898	1,898
	All	2,448	2,367	2,384
DEC	W	4,370	4,504	4,580
	AN	4,711	4,567	4,574
	BN	2,182	2,065	2,073
	D	2,129	2,166	2,155
	C	1,729	1,694	1,681
	All	3,219	3,211	3,231

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 34. Differences^a (Percent Differences) between Pairs of Model Scenarios in the San Joaquin**
 2 **River at Vernalis, Year-Round**

Alternative 9: In Delta—San Joaquin River at Vernalis			
Month	WYT ^b	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
JAN	W	689 (7.6%)	97 (1%)
	AN	590 (10.8%)	26 (0.4%)
	BN	-85 (-3.7%)	20 (0.9%)
	D	-66 (-2.9%)	3 (0.1%)
	C	-76 (-4.5%)	0 (0%)
	All	278 (5.8%)	37 (0.7%)
FEB	W	452 (3.5%)	11 (0.1%)
	AN	-243 (-3.5%)	1 (0%)
	BN	-174 (-5.8%)	-32 (-1.1%)
	D	-320 (-12.3%)	1 (0.1%)
	C	-179 (-8.4%)	0 (0%)
	All	-28 (-0.4%)	-2 (0%)
MAR	W	871 (6.1%)	10 (0.1%)
	AN	80 (1.3%)	0 (0%)
	BN	-473 (-16%)	0 (0%)
	D	-334 (-13.5%)	-1 (0%)
	C	-126 (-7%)	-1 (0%)
	All	118 (1.8%)	3 (0%)
APR	W	501 (4.2%)	-2 (0%)
	AN	29 (0.5%)	1 (0%)
	BN	-567 (-12.6%)	1 (0%)
	D	-547 (-14.9%)	-2 (-0.1%)
	C	-189 (-9.6%)	-2 (-0.1%)
	All	-61 (-1%)	-1 (0%)
MAY	W	521 (4.3%)	-2 (0%)
	AN	-291 (-5.4%)	-1 (0%)
	BN	-416 (-10.2%)	1 (0%)
	D	-488 (-14.8%)	-3 (-0.1%)
	C	-169 (-8.6%)	-2 (-0.1%)
	All	-81 (-1.3%)	-2 (0%)
JUN	W	-4,231 (-38.3%)	6 (0.1%)
	AN	-287 (-9.7%)	0 (0%)
	BN	-180 (-8.8%)	1 (0.1%)
	D	-249 (-16.2%)	-2 (-0.2%)
	C	-68 (-6.7%)	-4 (-0.4%)
	All	-1,376 (-30%)	1 (0%)
JUL	W	-3,311 (-43.3%)	-2 (0%)
	AN	-157 (-8%)	0 (0%)
	BN	-108 (-7.3%)	2 (0.2%)
	D	-202 (-15.6%)	-6 (-0.6%)
	C	-45 (-5%)	-5 (-0.6%)
	All	-1,058 (-32.6%)	-2 (-0.1%)

Alternative 9: In Delta—San Joaquin River at Vernalis			
Month	WYT^b	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
AUG	W	-895 (-25.3%)	-1 (0%)
	AN	-302 (-15.1%)	0 (0%)
	BN	-84 (-5.7%)	2 (0.1%)
	D	-151 (-11%)	-1 (-0.1%)
	C	-24 (-2.4%)	-4 (-0.4%)
	All	-363 (-17.5%)	-1 (-0.1%)
SEP	W	-392 (-11.2%)	-1 (0%)
	AN	-190 (-8.1%)	0 (0%)
	BN	-80 (-4.4%)	1 (0%)
	D	-154 (-8.6%)	-1 (0%)
	C	-23 (-1.6%)	2 (0.1%)
	All	-194 (-8.3%)	0 (0%)
OCT	W	-48 (-1.7%)	-14 (-0.5%)
	AN	-150 (-5.5%)	0 (0%)
	BN	-154 (-6.2%)	0 (0%)
	D	-154 (-5.2%)	0 (0%)
	C	-182 (-8.2%)	0 (0%)
	All	-128 (-4.8%)	-4 (-0.2%)
NOV	W	-115 (-4.6%)	7 (0.3%)
	AN	13 (0.4%)	2 (0.1%)
	BN	-98 (-4.6%)	56 (2.8%)
	D	-20 (-0.9%)	35 (1.6%)
	C	-70 (-3.6%)	0 (0%)
	All	-64 (-2.6%)	17 (0.7%)
DEC	W	210 (4.8%)	76 (1.7%)
	AN	-137 (-2.9%)	7 (0.2%)
	BN	-109 (-5%)	8 (0.4%)
	D	26 (1.2%)	-11 (-0.5%)
	C	-48 (-2.8%)	-13 (-0.8%)
	All	12 (0.4%)	21 (0.6%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.

1 **11C.9.2.6 Mokelumne River at the Delta**

2 **Table 35. Mean Monthly Flows (cfs) for Model Scenarios in the Mokelumne River at the Delta,**
 3 **Year-Round**

Alternative 9: In Delta—Mokelumne River at the Delta				
Month	WYT^a	EXISTING CONDITIONS	NAA	A9_LLТ
JAN	W	3,071	3,634	3,634
	AN	1,707	1,876	1,876
	BN	597	617	617
	D	495	493	493
	C	280	281	281
	All	1,460	1,660	1,660
FEB	W	3,290	3,781	3,781
	AN	2,525	2,913	2,913
	BN	1,011	1,035	1,035
	D	695	678	678
	C	426	442	442
	All	1,809	2,033	2,033
MAR	W	3,179	3,336	3,336
	AN	1,582	1,639	1,639
	BN	1,181	1,140	1,140
	D	754	691	691
	C	595	580	580
	All	1,662	1,700	1,700
APR	W	2,819	2,694	2,694
	AN	1,619	1,424	1,424
	BN	1,243	1,068	1,068
	D	623	550	550
	C	340	311	311
	All	1,503	1,384	1,384
MAY	W	3,170	2,885	2,885
	AN	1,439	1,179	1,179
	BN	976	812	812
	D	406	333	333
	C	181	170	170
	All	1,463	1,289	1,289
JUN	W	1,755	1,415	1,415
	AN	851	631	631
	BN	471	366	366
	D	93	76	76
	C	52	44	44
	All	779	616	616
JUL	W	772	469	469
	AN	347	167	167
	BN	123	70	70
	D	7	6	6
	C	3	3	3
	All	315	183	183

Alternative 9: In Delta—Mokelumne River at the Delta				
Month	WYT^a	EXISTING CONDITIONS	NAA	A9_LLТ
AUG	W	703	346	346
	AN	328	216	216
	BN	112	71	71
	D	4	4	4
	C	2	2	2
	All	289	156	156
SEP	W	702	497	497
	AN	333	259	259
	BN	114	91	91
	D	9	9	9
	C	5	5	5
	All	291	213	213
OCT	W	161	147	147
	AN	178	180	180
	BN	154	144	144
	D	180	160	160
	C	117	123	123
	All	158	150	150
NOV	W	487	431	431
	AN	912	855	855
	BN	347	301	301
	D	380	327	327
	C	195	186	186
	All	474	429	429
DEC	W	1,504	1,732	1,732
	AN	1,411	1,628	1,628
	BN	447	472	472
	D	384	374	374
	C	204	209	209
	All	887	999	999

^a Water year type for this location was determined using the San Joaquin River Valley Index.

1 **Table 36. Differences^a (Percent Differences) between Pairs of Model Scenarios in the Mokelumne**
 2 **River at the Delta, Year-Round**

Alternative 9: In Delta—Mokelumne River at the Delta			
Month	WYT ^b	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
JAN	W	563 (18.3%)	0 (0%)
	AN	169 (9.9%)	0 (0%)
	BN	21 (3.4%)	0 (0%)
	D	-2 (-0.5%)	0 (0%)
	C	1 (0.3%)	0 (0%)
	All	201 (13.8%)	0 (0%)
FEB	W	491 (14.9%)	0 (0%)
	AN	388 (15.4%)	0 (0%)
	BN	24 (2.4%)	0 (0%)
	D	-17 (-2.4%)	0 (0%)
	C	15 (3.5%)	0 (0%)
	All	223 (12.3%)	0 (0%)
MAR	W	158 (5%)	0 (0%)
	AN	57 (3.6%)	0 (0%)
	BN	-41 (-3.4%)	0 (0%)
	D	-63 (-8.3%)	0 (0%)
	C	-15 (-2.5%)	0 (0%)
	All	38 (2.3%)	0 (0%)
APR	W	-125 (-4.4%)	0 (0%)
	AN	-194 (-12%)	0 (0%)
	BN	-175 (-14.1%)	0 (0%)
	D	-73 (-11.7%)	0 (0%)
	C	-29 (-8.7%)	0 (0%)
	All	-120 (-8%)	0 (0%)
MAY	W	-284 (-9%)	0 (0%)
	AN	-260 (-18.1%)	0 (0%)
	BN	-164 (-16.8%)	0 (0%)
	D	-72 (-17.8%)	0 (0%)
	C	-11 (-6.1%)	0 (0%)
	All	-174 (-11.9%)	0 (0%)
JUN	W	-339 (-19.3%)	0 (0%)
	AN	-220 (-25.8%)	0 (0%)
	BN	-105 (-22.3%)	0 (0%)
	D	-17 (-18.8%)	0 (0%)
	C	-8 (-14.7%)	0 (0%)
	All	-163 (-20.9%)	0 (0%)
JUL	W	-303 (-39.3%)	0 (0%)
	AN	-180 (-51.8%)	0 (0%)
	BN	-54 (-43.4%)	0 (0%)
	D	0 (-3.1%)	0 (0%)
	C	0 (-4.4%)	0 (0%)
	All	-132 (-42%)	0 (0%)

Alternative 9: In Delta—Mokelumne River at the Delta			
Month	WYT^b	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
AUG	W	-357 (-50.8%)	0 (0%)
	AN	-113 (-34.3%)	0 (0%)
	BN	-41 (-36.5%)	0 (0%)
	D	0 (-0.5%)	0 (0%)
	C	0 (-3.1%)	0 (0%)
	All	-133 (-46.1%)	0 (0%)
SEP	W	-205 (-29.3%)	0 (0%)
	AN	-74 (-22.2%)	0 (0%)
	BN	-23 (-20.5%)	0 (0%)
	D	-1 (-5.9%)	0 (0%)
	C	0 (4.6%)	0 (0%)
	All	-78 (-26.9%)	0 (0%)
OCT	W	-14 (-8.7%)	0 (0%)
	AN	2 (1.1%)	0 (0%)
	BN	-10 (-6.6%)	0 (0%)
	D	-20 (-11.1%)	0 (0%)
	C	6 (4.7%)	0 (0%)
	All	-7 (-4.7%)	0 (0%)
NOV	W	-56 (-11.5%)	0 (0%)
	AN	-57 (-6.3%)	0 (0%)
	BN	-46 (-13.2%)	0 (0%)
	D	-53 (-13.9%)	0 (0%)
	C	-9 (-4.6%)	0 (0%)
	All	-45 (-9.5%)	0 (0%)
DEC	W	228 (15.2%)	0 (0%)
	AN	217 (15.4%)	0 (0%)
	BN	25 (5.5%)	0 (0%)
	D	-10 (-2.6%)	0 (0%)
	C	6 (2.9%)	0 (0%)
	All	113 (12.7%)	0 (0%)

^a Red boxes indicate that flows under the alternative are more than 5% lower than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% greater than flows under the baseline.

^b Water year type for this location was determined using the San Joaquin River Valley Index.