Appendix F

Supplemental Modeling Results at ELT for Alternative 4 at H1 and H2

Appendix F
Supplemental Modeling Results at ELT for Alternative 4 at H1 and H2

In order to accurately estimate the environmental impacts of the proposed project and alternatives, operational models were developed relative to the range of water year types and various operational scenarios within two temporal impact horizons the "early long term" (ELT) and the "late long term" (LLT). This appendix presents the CALSIM water operations modeling results for Alternative 4 for operational scenarios referred to as "Scenarios H1 and H2" at the ELT. The operational assumptions used for the scenarios presented in this appendix are consistent with the assumptions included in Alternative 4 H1 and Alternative 4 H2, except that the results presented below include ELT climate (assumptions at year 2025) and demand assumptions. This is consistent with how the proposed project analysis in the Partially Recirculated Environmental Impact Report/Supplemental Environmental Impact Statement (RDEIR/SDEIS) utilizes the CALSIM modeling results for Alternative 4 Scenarios H3 and H4 in the ELT. A full biological analysis of H1 and H2 in the ELT was presented in Chapter 5 of the Draft Bay Delta Conservation Plan (BDCP), which is incorporated here by reference.

F.1 Chapter 11, Fish and Aquatic Resources

F.1.1 Flow

F.1.1.1 Upstream

Sacramento River at Keswick

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

Alternative 4A_ELT: Upstream—Sacramento River at Keswick					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	16,526	17,330	18,118	17,931
	AN	8,318	7,776	8,885	9,078
	BN	4,502	4,340	4,858	4,847
	D	3,996	4,098	4,236	4,165
	C	3,491	3,794	4,163	3,790
	All	8,614	8,829	9,413	9,311
Feb	W	18,577	20,349	20,579	20,781
	AN	14,409	15,081	16,707	16,704
	BN	5,981	6,456	6,844	6,866
	D	3,684	3,447	3,367	3,324
	C	3,599	3,394	3,399	3,393
	All	10,355	11,015	11,375	11,432
Mar	W	16,200	16,399	16,430	16,417
	AN	9,131	8,662	9,299	9,279
	BN	5,200	4,306	4,851	4,858
	D	3,903	3,858	3,594	3,629
	C	3,487	3,608	3,781	3,651
	All	8,728	8,577	8,741	8,723

Alternative 4A_ELT: Upstream—Sacramento River at Keswick					
				A4A_ELT	
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	H1_ELT	H2_ELT
Apr	W	9,418	9,254	9,268	9,271
	AN	6,182	5,712	5,865	5,875
	BN	5,426	4,934	5,317	5,193
	D	5,803	5,497	5,662	5,638
	C	6,472	6,343	6,355	6,280
	All	7,038	6,748	6,877	6,843
May	W	9,508	8,183	8,187	8,209
	AN	7,709	7,307	8,198	8,095
	BN	7,193	6,411	7,238	7,046
	D	7,349	7,075	7,584	7,423
	C	6,715	6,900	7,189	7,058
	All	7,967	7,321	7,748	7,653
Jun	W	10,375	10,063	10,326	10,092
	AN	11,147	11,403	12,148	11,170
	BN	10,758	10,573	11,419	10,554
	D	11,224	11,464	11,988	11,447
	C	10,392	11,041	11,254	10,966
	All	10,742	10,797	11,280	10,754
Jul	W	12,779	13,477	13,728	13,526
	AN	14,056	14,541	14,609	14,711
	BN	12,965	13,195	13,357	13,411
	D	13,302	13,650	13,858	13,373
	C	12,850	12,124	12,287	11,787
	All	13,123	13,424	13,611	13,392
Aug	W	11,029	10,447	10,567	10,680
	AN	10,449	10,835	10,999	11,374
	BN	10,139	9,876	10,459	10,986
	D	10,627	10,464	9,418	10,860
	C	9,473	8,380	7,958	8,584
	All	10,476	10,108	9,978	10,567
Sep	W	9,385	12,012	7,981	8,014
	AN	5,862	9,209	6,835	6,599
	BN	5,492	5,677	5,991	6,055
	D	5,985	4,982	5,068	5,310
	C	5,563	4,827	5,034	4,867
	All	6,899	7,926	6,403	6,418
Oct	W	6,885	6,491	6,454	6,570
	AN	7,145	6,090	6,134	6,619
	BN	6,396	5,835	6,014	6,003
	D	6,128	5,899	5,818	5,913
	C	5,902	5,452	5,594	5,756
	All	6,530	6,038	6,066	6,217
Nov	W	6,672	7,620	6,169	6,216
	AN	6,224	7,357	5,071	5,182
	BN	5,088	5,926	4,339	4,444
	D	5,669	5,439	4,663	4,822
	C	4,822	4,789	4,309	4,144
	All	5,845	6,399	5,093	5,153
Dec	W	12,766	12,808	13,933	13,996
	AN	5,531	5,729	5,279	5,243
	BN	5,413	5,857	5,621	5,868
	D	4,215	3,883	4,341	4,121
	C	3,828	3,593	3,759	3,741
	All	7,267	7,278	7,653	7,659

cfs = cubic feet per second
Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

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

Alternative 4A_ELT: Upstream—Sacramento River at Keswick					
Month	Water Year Type	EXISTING CONDITIONS vs. H1_ELT	NAA_ELT vs. H1_ELT	EXISTING CONDITIONS vs. H2_ELT	NAA_ELT vs. H2_ELT
Jan	W	1,592 (9.6%)	788 (4.5%)	1,405 (8.5%)	601 (3.5%)
	AN	567 (6.8%)	1,109 (14.3%)	760 (9.1%)	1,302 (16.7%)
	BN	357 (7.9%)	518 (11.9%)	346 (7.7%)	507 (11.7%)
	D	240 (6%)	138 (3.4%)	170 (4.2%)	67 (1.6%)
	C	672 (19.3%)	369 (9.7%)	300 (8.6%)	-4 (-0.1%)
	All	800 (9.3%)	585 (6.6%)	697 (8.1%)	482 (5.5%)
Feb	W	2,002 (10.8%)	230 (1.1%)	2,204 (11.9%)	432 (2.1%)
	AN	2,298 (15.9%)	1,627 (10.8%)	2,294 (15.9%)	1,623 (10.8%)
	BN	863 (14.4%)	388 (6%)	885 (14.8%)	410 (6.4%)
	D	-317 (-8.6%)	-80 (-2.3%)	-359 (-9.8%)	-123 (-3.6%)
	C	-199 (-5.5%)	5 (0.1%)	-206 (-5.7%)	-2 (-0.1%)
	All	1,020 (9.8%)	360 (3.3%)	1,077 (10.4%)	417 (3.8%)
Mar	W	230 (1.4%)	31 (0.2%)	217 (1.3%)	18 (0.1%)
	AN	169 (1.8%)	638 (7.4%)	148 (1.6%)	617 (7.1%)
	BN	-348 (-6.7%)	545 (12.7%)	-342 (-6.6%)	551 (12.8%)
	D	-309 (-7.9%)	-264 (-6.9%)	-275 (-7%)	-230 (-6%)
	C	294 (8.4%)	173 (4.8%)	164 (4.7%)	43 (1.2%)
	All	13 (0.2%)	164 (1.9%)	-4 (0%)	146 (1.7%)
Apr	W	-150 (-1.6%)	13 (0.1%)	-147 (-1.6%)	17 (0.2%)
	AN	-317 (-5.1%)	152 (2.7%)	-307 (-5%)	163 (2.9%)
	BN	-109 (-2%)	383 (7.8%)	-233 (-4.3%)	259 (5.2%)
	D	-140 (-2.4%)	165 (3%)	-165 (-2.8%)	140 (2.5%)
	C	-117 (-1.8%)	12 (0.2%)	-191 (-3%)	-63 (-1%)
	All	-161 (-2.3%)	130 (1.9%)	-195 (-2.8%)	95 (1.4%)
May	W	-1,321 (-13.9%)	4 (0.1%)	-1,300 (-13.7%)	26 (0.3%)
	AN	489 (6.3%)	891 (12.2%)	386 (5%)	788 (10.8%)
	BN	45 (0.6%)	827 (12.9%)	-147 (-2%)	635 (9.9%)
	D	235 (3.2%)	509 (7.2%)	74 (1%)	348 (4.9%)
	C	474 (7.1%)	289 (4.2%)	343 (5.1%)	158 (2.3%)
	All	-219 (-2.7%)	427 (5.8%)	-314 (-3.9%)	331 (4.5%)
Jun	W	-49 (-0.5%)	263 (2.6%)	-283 (-2.7%)	29 (0.3%)
	AN	1,001 (9%)	745 (6.5%)	23 (0.2%)	-233 (-2%)
	BN	661 (6.1%)	846 (8%)	-204 (-1.9%)	-20 (-0.2%)
	D	764 (6.8%)	524 (4.6%)	223 (2%)	-17 (-0.1%)
	C	862 (8.3%)	213 (1.9%)	574 (5.5%)	-75 (-0.7%)
	All	537 (5%)	483 (4.5%)	11 (0.1%)	-43 (-0.4%)
Jul	W	948 (7.4%)	251 (1.9%)	746 (5.8%)	49 (0.4%)
	AN	553 (3.9%)	68 (0.5%)	655 (4.7%)	170 (1.2%)
	BN	392 (3%)	162 (1.2%)	446 (3.4%)	216 (1.6%)
	D	556 (4.2%)	209 (1.5%)	71 (0.5%)	-277 (-2%)
	C	-562 (-4.4%)	163 (1.3%)	-1,062 (-8.3%)	-337 (-2.8%)
	All	488 (3.7%)	187 (1.4%)	269 (2%)	-33 (-0.2%)

Alternative 4A_ELT: Upstream—Sacramento River at Keswick					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	-462 (-4.2%)	120 (1.1%)	-350 (-3.2%)	233 (2.2%)
	AN	551 (5.3%)	164 (1.5%)	925 (8.9%)	538 (5%)
	BN	320 (3.2%)	583 (5.9%)	847 (8.4%)	1,110 (11.2%)
	D	-1,209 (-11.4%)	-1,046 (-10%)	233 (2.2%)	396 (3.8%)
	C	-1,515 (-16%)	-422 (-5%)	-889 (-9.4%)	204 (2.4%)
	All	-499 (-4.8%)	-130 (-1.3%)	90 (0.9%)	459 (4.5%)
Sep	W	-1,404 (-15%)	-4,031 (-33.6%)	-1,371 (-14.6%)	-3,998 (-33.3%)
	AN	973 (16.6%)	-2,374 (-25.8%)	737 (12.6%)	-2,610 (-28.3%)
	BN	499 (9.1%)	314 (5.5%)	563 (10.2%)	378 (6.7%)
	D	-917 (-15.3%)	86 (1.7%)	-675 (-11.3%)	328 (6.6%)
	C	-529 (-9.5%)	207 (4.3%)	-696 (-12.5%)	40 (0.8%)
	All	-496 (-7.2%)	-1,523 (-19.2%)	-481 (-7%)	-1,507 (-19%)
Oct	W	-432 (-6.3%)	-38 (-0.6%)	-316 (-4.6%)	78 (1.2%)
	AN	-1,011 (-14.2%)	44 (0.7%)	-525 (-7.4%)	530 (8.7%)
	BN	-383 (-6%)	179 (3.1%)	-393 (-6.1%)	168 (2.9%)
	D	-310 (-5.1%)	-81 (-1.4%)	-216 (-3.5%)	13 (0.2%)
	C	-308 (-5.2%)	142 (2.6%)	-147 (-2.5%)	303 (5.6%)
	All	-463 (-7.1%)	28 (0.5%)	-313 (-4.8%)	178 (3%)
Nov	W	-504 (-7.5%)	-1,451 (-19%)	-456 (-6.8%)	-1,404 (-18.4%)
	AN	-1,153 (-18.5%)	-2,286 (-31.1%)	-1,042 (-16.7%)	-2,176 (-29.6%)
	BN	-749 (-14.7%)	-1,587 (-26.8%)	-644 (-12.7%)	-1,483 (-25%)
	D	-1,006 (-17.8%)	-776 (-14.3%)	-847 (-14.9%)	-617 (-11.3%)
	C	-514 (-10.7%)	-480 (-10%)	-679 (-14.1%)	-645 (-13.5%)
	All	-752 (-12.9%)	-1,306 (-20.4%)	-693 (-11.8%)	-1,247 (-19.5%)
Dec	W	1,168 (9.1%)	1,126 (8.8%)	1,230 (9.6%)	1,188 (9.3%)
	AN	-252 (-4.6%)	-450 (-7.9%)	-288 (-5.2%)	-486 (-8.5%)
	BN	208 (3.8%)	-236 (-4%)	455 (8.4%)	11 (0.2%)
	D	126 (3%)	458 (11.8%)	-94 (-2.2%)	238 (6.1%)
	C	-69 (-1.8%)	166 (4.6%)	-87 (-2.3%)	148 (4.1%)
	All	387 (5.3%)	376 (5.2%)	392 (5.4%)	381 (5.2%)

[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.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Sacramento River Upstream of Red Bluff

Table F.1-3. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River Upstream of Red Bluff, Year-Round

Alternative 4A_ELT: Upstream—Sacramento River Upstream of Red Bluff					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	28,036	29,368	30,146	29,799
	AN	16,725	16,267	17,374	16,960
	BN	9,381	9,267	9,782	9,842
	D	7,098	7,262	7,393	7,261
	C	6,143	6,497	6,869	6,222
	All	15,396	15,819	16,399	16,115
Feb	W	30,255	32,712	32,937	32,853
	AN	23,492	24,422	26,040	25,247
	BN	12,005	12,508	12,891	12,855
	D	8,947	8,785	8,703	8,843
	C	6,599	6,404	6,411	6,527
	All	18,010	18,947	19,304	19,203
Mar	W	25,004	25,473	25,504	25,481
	AN	16,599	16,222	16,844	16,753
	BN	9,333	8,438	8,975	8,598
	D	8,385	8,349	8,085	8,260
	C	5,999	6,126	6,305	6,323
	All	14,669	14,621	14,781	14,738
Apr	W	15,172	15,078	15,091	15,066
	AN	10,477	9,983	10,133	10,090
	BN	8,711	8,239	8,611	8,299
	D	7,948	7,654	7,818	7,789
	C	7,742	7,628	7,642	7,600
	All	10,709	10,445	10,572	10,493
May	W	12,541	11,224	11,227	11,232
	AN	10,012	9,623	10,511	10,502
	BN	8,781	8,030	8,843	8,423
	D	8,677	8,424	8,927	8,841
	C	7,746	7,956	8,243	7,975
	All	9,979	9,351	9,774	9,644
Jun	W	11,905	11,591	11,853	11,849
	AN	12,001	12,227	12,960	12,882
	BN	11,464	11,304	12,132	11,988
	D	11,777	12,028	12,544	12,699
	C	10,885	11,539	11,746	11,748
	All	11,666	11,723	12,199	12,196
Jul	W	13,255	13,937	14,184	14,157
	AN	14,130	14,594	14,654	14,662
	BN	13,011	13,272	13,415	13,741
	D	13,368	13,741	13,942	13,737
	C	13,005	12,344	12,446	12,632
	All	13,329	13,643	13,814	13,845

Alternative 4A_ELT: Upstream—Sacramento River Upstream of Red Bluff					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	11,283	10,700	10,817	10,773
	AN	10,580	10,968	11,129	11,295
	BN	10,202	9,971	10,542	10,845
	D	10,747	10,610	9,559	9,524
	C	9,590	8,632	8,202	8,326
	All	10,630	10,292	10,157	10,229
Sep	W	9,856	12,494	8,461	12,202
	AN	6,280	9,634	7,258	8,255
	BN	5,821	6,038	6,343	5,510
	D	6,391	5,424	5,516	4,991
	C	5,887	5,279	5,430	5,112
	All	7,302	8,365	6,833	7,862
Oct	W	8,020	7,662	7,640	7,585
	AN	8,112	7,108	7,161	6,773
	BN	7,095	6,544	6,730	6,376
	D	6,903	6,690	6,614	6,648
	C	6,671	6,254	6,386	5,951
	All	7,432	6,971	7,006	6,815
Nov	W	9,876	10,966	9,512	9,839
	AN	8,144	9,362	7,074	7,725
	BN	6,790	7,710	6,120	6,338
	D	7,548	7,421	6,635	6,601
	C	5,811	5,805	5,324	5,456
	All	7,990	8,642	7,332	7,580
Dec	W	21,015	21,554	22,690	21,714
	AN	10,019	10,370	9,935	10,021
	BN	8,408	8,921	8,698	8,741
	D	7,292	7,044	7,509	7,046
	C	5,628	5,465	5,640	5,582
	All	11,989	12,221	12,607	12,207

cfs = cubic feet per second
Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

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

Alternative 4A_ELT: Upstream—Sacramento River Upstream of Red Bluff					
Month	Water Year Type	EXISTING CONDITIONS vs. H1_ELT	NAA_ELT vs. H1_ELT	EXISTING CONDITIONS vs. H2_ELT	NAA_ELT vs. H2_ELT
Jan	W	2,109 (7.5%)	778 (2.6%)	1,762 (6.3%)	431 (1.5%)
	AN	649 (3.9%)	1,107 (6.8%)	236 (1.4%)	694 (4.3%)
	BN	401 (4.3%)	515 (5.6%)	460 (4.9%)	574 (6.2%)
	D	295 (4.2%)	132 (1.8%)	163 (2.3%)	-1 (0%)
	C	725 (11.8%)	371 (5.7%)	79 (1.3%)	-275 (-4.2%)
	All	1,003 (6.5%)	580 (3.7%)	719 (4.7%)	296 (1.9%)
Feb	W	2,682 (8.9%)	225 (0.7%)	2,598 (8.6%)	142 (0.4%)
	AN	2,548 (10.8%)	1,617 (6.6%)	1,756 (7.5%)	825 (3.4%)
	BN	887 (7.4%)	383 (3.1%)	850 (7.1%)	346 (2.8%)
	D	-244 (-2.7%)	-82 (-0.9%)	-104 (-1.2%)	58 (0.7%)
	C	-188 (-2.9%)	7 (0.1%)	-72 (-1.1%)	123 (1.9%)
	All	1,294 (7.2%)	356 (1.9%)	1,193 (6.6%)	255 (1.3%)
Mar	W	500 (2%)	31 (0.1%)	478 (1.9%)	8 (0%)
	AN	245 (1.5%)	622 (3.8%)	154 (0.9%)	530 (3.3%)
	BN	-357 (-3.8%)	538 (6.4%)	-735 (-7.9%)	160 (1.9%)
	D	-300 (-3.6%)	-264 (-3.2%)	-125 (-1.5%)	-89 (-1.1%)
	C	306 (5.1%)	179 (2.9%)	324 (5.4%)	197 (3.2%)
	All	112 (0.8%)	161 (1.1%)	69 (0.5%)	117 (0.8%)
Apr	W	-81 (-0.5%)	13 (0.1%)	-106 (-0.7%)	-12 (-0.1%)
	AN	-345 (-3.3%)	150 (1.5%)	-387 (-3.7%)	107 (1.1%)
	BN	-99 (-1.1%)	373 (4.5%)	-411 (-4.7%)	61 (0.7%)
	D	-130 (-1.6%)	164 (2.1%)	-159 (-2%)	135 (1.8%)
	C	-100 (-1.3%)	14 (0.2%)	-142 (-1.8%)	-28 (-0.4%)
	All	-136 (-1.3%)	128 (1.2%)	-216 (-2%)	48 (0.5%)
May	W	-1,313 (-10.5%)	3 (0%)	-1,308 (-10.4%)	8 (0.1%)
	AN	499 (5%)	888 (9.2%)	490 (4.9%)	879 (9.1%)
	BN	62 (0.7%)	814 (10.1%)	-358 (-4.1%)	393 (4.9%)
	D	250 (2.9%)	503 (6%)	164 (1.9%)	417 (4.9%)
	C	497 (6.4%)	287 (3.6%)	229 (3%)	19 (0.2%)
	All	-205 (-2.1%)	422 (4.5%)	-335 (-3.4%)	293 (3.1%)
Jun	W	-53 (-0.4%)	262 (2.3%)	-56 (-0.5%)	259 (2.2%)
	AN	959 (8%)	733 (6%)	881 (7.3%)	655 (5.4%)
	BN	668 (5.8%)	828 (7.3%)	524 (4.6%)	684 (6.1%)
	D	767 (6.5%)	516 (4.3%)	922 (7.8%)	671 (5.6%)
	C	862 (7.9%)	208 (1.8%)	864 (7.9%)	210 (1.8%)
	All	532 (4.6%)	475 (4.1%)	529 (4.5%)	473 (4%)
Jul	W	929 (7%)	247 (1.8%)	903 (6.8%)	221 (1.6%)
	AN	525 (3.7%)	60 (0.4%)	532 (3.8%)	67 (0.5%)
	BN	404 (3.1%)	143 (1.1%)	729 (5.6%)	468 (3.5%)
	D	573 (4.3%)	201 (1.5%)	369 (2.8%)	-3 (0%)
	C	-558 (-4.3%)	102 (0.8%)	-373 (-2.9%)	288 (2.3%)
	All	485 (3.6%)	171 (1.3%)	515 (3.9%)	201 (1.5%)

Alternative 4A_ELT: Upstream—Sacramento River Upstream of Red Bluff					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	-466 (-4.1%)	117 (1.1%)	-511 (-4.5%)	73 (0.7%)
	AN	549 (5.2%)	161 (1.5%)	715 (6.8%)	327 (3%)
	BN	340 (3.3%)	571 (5.7%)	643 (6.3%)	873 (8.8%)
	D	-1,188 (-11.1%)	-1,051 (-9.9%)	-1,223 (-11.4%)	-1,086 (-10.2%)
	C	-1,389 (-14.5%)	-430 (-5%)	-1,264 (-13.2%)	-306 (-3.5%)
	All	-474 (-4.5%)	-136 (-1.3%)	-401 (-3.8%)	-63 (-0.6%)
Sep	W	-1,395 (-14.1%)	-4,033 (-32.3%)	2,346 (23.8%)	-292 (-2.3%)
	AN	978 (15.6%)	-2,376 (-24.7%)	1,976 (31.5%)	-1,379 (-14.3%)
	BN	523 (9%)	306 (5.1%)	-311 (-5.3%)	-528 (-8.7%)
	D	-875 (-13.7%)	91 (1.7%)	-1,400 (-21.9%)	-433 (-8%)
	C	-457 (-7.8%)	151 (2.9%)	-774 (-13.2%)	-166 (-3.2%)
	All	-469 (-6.4%)	-1,532 (-18.3%)	559 (7.7%)	-504 (-6%)
Oct	W	-379 (-4.7%)	-22 (-0.3%)	-434 (-5.4%)	-77 (-1%)
	AN	-951 (-11.7%)	53 (0.7%)	-1,339 (-16.5%)	-335 (-4.7%)
	BN	-365 (-5.1%)	185 (2.8%)	-718 (-10.1%)	-168 (-2.6%)
	D	-289 (-4.2%)	-76 (-1.1%)	-255 (-3.7%)	-42 (-0.6%)
	C	-285 (-4.3%)	132 (2.1%)	-719 (-10.8%)	-302 (-4.8%)
	All	-427 (-5.7%)	35 (0.5%)	-618 (-8.3%)	-156 (-2.2%)
Nov	W	-364 (-3.7%)	-1,454 (-13.3%)	-37 (-0.4%)	-1,127 (-10.3%)
	AN	-1,069 (-13.1%)	-2,287 (-24.4%)	-419 (-5.1%)	-1,637 (-17.5%)
	BN	-670 (-9.9%)	-1,590 (-20.6%)	-452 (-6.7%)	-1,372 (-17.8%)
	D	-913 (-12.1%)	-786 (-10.6%)	-947 (-12.5%)	-820 (-11%)
	C	-487 (-8.4%)	-481 (-8.3%)	-356 (-6.1%)	-350 (-6%)
	All	-658 (-8.2%)	-1,310 (-15.2%)	-410 (-5.1%)	-1,062 (-12.3%)
Dec	W	1,675 (8%)	1,136 (5.3%)	698 (3.3%)	159 (0.7%)
	AN	-84 (-0.8%)	-434 (-4.2%)	2 (0%)	-348 (-3.4%)
	BN	290 (3.5%)	-223 (-2.5%)	333 (4%)	-180 (-2%)
	D	217 (3%)	464 (6.6%)	-246 (-3.4%)	1 (0%)
	C	12 (0.2%)	176 (3.2%)	-46 (-0.8%)	117 (2.1%)
	All	618 (5.2%)	386 (3.2%)	218 (1.8%)	-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.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Sacramento River at Wilkins Slough

Table F.1-5. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Wilkins Slough, Year-Round

Alternative 4A_ELT: Upstream—Sacramento River at Wilkins Slough					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	19,145	19,250	19,274	19,275
	AN	17,084	16,521	17,183	16,611
	BN	12,521	12,322	12,647	12,640
	D	8,896	8,896	8,934	8,825
	C	7,858	8,152	8,513	7,860
	All	13,811	13,771	13,992	13,788
Feb	W	19,887	19,976	19,998	19,992
	AN	19,139	19,134	19,711	19,219
	BN	14,528	14,508	14,705	14,557
	D	11,520	11,451	11,430	11,451
	C	8,499	8,220	8,205	8,354
	All	15,359	15,327	15,446	15,373
Mar	W	18,223	18,325	18,328	18,323
	AN	17,696	17,638	17,725	17,712
	BN	12,208	11,505	11,967	11,673
	D	11,364	11,289	11,132	11,264
	C	8,101	8,201	8,387	8,386
	All	14,132	14,034	14,119	14,095
Apr	W	13,392	13,312	13,316	13,315
	AN	10,264	10,038	10,132	10,063
	BN	7,152	6,795	7,153	6,847
	D	5,319	5,082	5,253	5,217
	C	4,164	4,136	4,120	4,097
	All	8,746	8,571	8,682	8,608
May	W	10,467	9,445	9,433	9,447
	AN	7,318	6,978	7,817	7,820
	BN	5,638	4,981	5,675	5,315
	D	4,669	4,454	4,902	4,817
	C	3,998	4,155	4,431	4,177
	All	6,962	6,452	6,828	6,716
Jun	W	6,503	6,226	6,452	6,467
	AN	5,781	5,958	6,587	6,523
	BN	5,243	5,205	5,896	5,811
	D	5,245	5,586	6,045	6,212
	C	5,141	5,753	5,926	5,957
	All	5,707	5,803	6,211	6,233
Jul	W	6,685	7,162	7,370	7,367
	AN	6,971	7,307	7,274	7,304
	BN	6,122	6,503	6,483	6,873
	D	6,788	7,240	7,382	7,172
	C	7,162	6,577	6,511	6,708
	All	6,723	7,002	7,081	7,134

Alternative 4A_ELT: Upstream—Sacramento River at Wilkins Slough					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	6,287	5,492	5,575	5,548
	AN	5,498	5,765	5,886	6,063
	BN	5,138	4,984	5,434	5,755
	D	5,833	5,723	4,593	4,574
	C	5,551	4,963	4,452	4,578
	All	5,768	5,419	5,216	5,303
Sep	W	9,338	11,904	7,869	11,624
	AN	5,631	8,877	6,497	7,485
	BN	5,128	5,291	5,548	4,733
	D	5,636	4,629	4,785	4,269
	C	5,200	4,689	4,803	4,514
	All	6,658	7,679	6,146	7,187
Oct	W	7,347	6,876	6,944	6,840
	AN	6,799	5,809	5,902	5,523
	BN	5,987	5,344	5,566	5,196
	D	5,688	5,411	5,415	5,386
	C	5,641	5,205	5,346	4,902
	All	6,421	5,892	5,987	5,764
Nov	W	9,644	10,843	9,390	9,684
	AN	8,210	9,465	7,166	7,845
	BN	6,793	7,688	6,071	6,308
	D	7,407	7,354	6,541	6,528
	C	5,118	5,081	4,564	4,722
	All	7,794	8,494	7,166	7,419
Dec	W	17,881	17,819	18,102	17,877
	AN	10,809	10,921	10,779	10,833
	BN	8,505	8,283	8,330	8,306
	D	8,950	8,665	9,086	8,633
	C	6,229	5,989	6,196	6,122
	All	11,580	11,441	11,641	11,463

cfs = cubic feet per second
Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

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

Alternative 4A_ELT: Upstream—Sacramento River at Wilkins Slough					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	129 (0.7%)	24 (0.1%)	130 (0.7%)	25 (0.1%)
	AN	99 (0.6%)	662 (4%)	-473 (-2.8%)	90 (0.5%)
	BN	126 (1%)	325 (2.6%)	119 (1%)	318 (2.6%)
	D	39 (0.4%)	38 (0.4%)	-70 (-0.8%)	-71 (-0.8%)
	C	656 (8.3%)	361 (4.4%)	3 (0%)	-292 (-3.6%)
	All	181 (1.3%)	221 (1.6%)	-23 (-0.2%)	17 (0.1%)
Feb	W	111 (0.6%)	22 (0.1%)	104 (0.5%)	16 (0.1%)
	AN	572 (3%)	577 (3%)	80 (0.4%)	85 (0.4%)
	BN	177 (1.2%)	196 (1.4%)	30 (0.2%)	49 (0.3%)
	D	-90 (-0.8%)	-21 (-0.2%)	-68 (-0.6%)	0 (0%)
	C	-293 (-3.5%)	-15 (-0.2%)	-145 (-1.7%)	134 (1.6%)
	All	86 (0.6%)	118 (0.8%)	14 (0.1%)	46 (0.3%)
Mar	W	105 (0.6%)	3 (0%)	101 (0.6%)	-1 (0%)
	AN	30 (0.2%)	88 (0.5%)	17 (0.1%)	75 (0.4%)
	BN	-241 (-2%)	462 (4%)	-535 (-4.4%)	168 (1.5%)
	D	-232 (-2%)	-157 (-1.4%)	-100 (-0.9%)	-25 (-0.2%)
	C	286 (3.5%)	186 (2.3%)	285 (3.5%)	185 (2.3%)
	All	-13 (-0.1%)	85 (0.6%)	-37 (-0.3%)	61 (0.4%)
Apr	W	-76 (-0.6%)	3 (0%)	-77 (-0.6%)	3 (0%)
	AN	-132 (-1.3%)	94 (0.9%)	-200 (-1.9%)	25 (0.3%)
	BN	0 (0%)	358 (5.3%)	-305 (-4.3%)	52 (0.8%)
	D	-67 (-1.3%)	170 (3.4%)	-103 (-1.9%)	134 (2.6%)
	C	-44 (-1.1%)	-17 (-0.4%)	-67 (-1.6%)	-39 (-1%)
	All	-64 (-0.7%)	111 (1.3%)	-138 (-1.6%)	37 (0.4%)
May	W	-1,034 (-9.9%)	-11 (-0.1%)	-1,019 (-9.7%)	3 (0%)
	AN	499 (6.8%)	839 (12%)	502 (6.9%)	841 (12.1%)
	BN	37 (0.7%)	694 (13.9%)	-323 (-5.7%)	334 (6.7%)
	D	233 (5%)	448 (10.1%)	148 (3.2%)	363 (8.2%)
	C	433 (10.8%)	277 (6.7%)	179 (4.5%)	22 (0.5%)
	All	-134 (-1.9%)	376 (5.8%)	-246 (-3.5%)	264 (4.1%)
Jun	W	-51 (-0.8%)	226 (3.6%)	-36 (-0.6%)	241 (3.9%)
	AN	806 (13.9%)	629 (10.6%)	742 (12.8%)	565 (9.5%)
	BN	654 (12.5%)	691 (13.3%)	568 (10.8%)	606 (11.6%)
	D	800 (15.2%)	459 (8.2%)	967 (18.4%)	626 (11.2%)
	C	786 (15.3%)	174 (3%)	817 (15.9%)	205 (3.6%)
	All	504 (8.8%)	408 (7%)	526 (9.2%)	430 (7.4%)
Jul	W	685 (10.3%)	207 (2.9%)	682 (10.2%)	204 (2.9%)
	AN	304 (4.4%)	-33 (-0.4%)	333 (4.8%)	-3 (0%)
	BN	361 (5.9%)	-21 (-0.3%)	751 (12.3%)	370 (5.7%)
	D	594 (8.8%)	141 (2%)	385 (5.7%)	-68 (-0.9%)
	C	-651 (-9.1%)	-66 (-1%)	-453 (-6.3%)	131 (2%)
	All	358 (5.3%)	79 (1.1%)	411 (6.1%)	132 (1.9%)

Alternative 4A_ELT: Upstream—Sacramento River at Wilkins Slough					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	-712 (-11.3%)	83 (1.5%)	-739 (-11.8%)	56 (1%)
	AN	388 (7.1%)	121 (2.1%)	565 (10.3%)	299 (5.2%)
	BN	296 (5.8%)	449 (9%)	617 (12%)	770 (15.5%)
	D	-1,240 (-21.3%)	-1,130 (-19.7%)	-1,259 (-21.6%)	-1,149 (-20.1%)
	C	-1,100 (-19.8%)	-512 (-10.3%)	-973 (-17.5%)	-385 (-7.8%)
	All	-552 (-9.6%)	-202 (-3.7%)	-465 (-8.1%)	-115 (-2.1%)
Sep	W	-1,469 (-15.7%)	-4,035 (-33.9%)	2,287 (24.5%)	-279 (-2.3%)
	AN	866 (15.4%)	-2,380 (-26.8%)	1,853 (32.9%)	-1,393 (-15.7%)
	BN	421 (8.2%)	257 (4.9%)	-395 (-7.7%)	-558 (-10.6%)
	D	-851 (-15.1%)	156 (3.4%)	-1,367 (-24.2%)	-360 (-7.8%)
	C	-397 (-7.6%)	115 (2.4%)	-686 (-13.2%)	-175 (-3.7%)
	All	-512 (-7.7%)	-1,533 (-20%)	529 (7.9%)	-492 (-6.4%)
Oct	W	-403 (-5.5%)	68 (1%)	-507 (-6.9%)	-36 (-0.5%)
	AN	-898 (-13.2%)	93 (1.6%)	-1,276 (-18.8%)	-286 (-4.9%)
	BN	-420 (-7%)	222 (4.2%)	-790 (-13.2%)	-148 (-2.8%)
	D	-273 (-4.8%)	4 (0.1%)	-302 (-5.3%)	-25 (-0.5%)
	C	-296 (-5.2%)	141 (2.7%)	-739 (-13.1%)	-303 (-5.8%)
	All	-434 (-6.8%)	94 (1.6%)	-657 (-10.2%)	-128 (-2.2%)
Nov	W	-254 (-2.6%)	-1,453 (-13.4%)	40 (0.4%)	-1,159 (-10.7%)
	AN	-1,044 (-12.7%)	-2,299 (-24.3%)	-365 (-4.4%)	-1,620 (-17.1%)
	BN	-722 (-10.6%)	-1,617 (-21%)	-485 (-7.1%)	-1,380 (-17.9%)
	D	-867 (-11.7%)	-813 (-11.1%)	-880 (-11.9%)	-826 (-11.2%)
	C	-554 (-10.8%)	-517 (-10.2%)	-397 (-7.7%)	-360 (-7.1%)
	All	-628 (-8.1%)	-1,327 (-15.6%)	-375 (-4.8%)	-1,074 (-12.6%)
Dec	W	221 (1.2%)	283 (1.6%)	-4 (0%)	58 (0.3%)
	AN	-30 (-0.3%)	-142 (-1.3%)	24 (0.2%)	-88 (-0.8%)
	BN	-175 (-2.1%)	46 (0.6%)	-199 (-2.3%)	23 (0.3%)
	D	136 (1.5%)	421 (4.9%)	-316 (-3.5%)	-32 (-0.4%)
	C	-33 (-0.5%)	207 (3.5%)	-107 (-1.7%)	134 (2.2%)
	All	61 (0.5%)	200 (1.7%)	-117 (-1%)	22 (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.

cfs = cubic feet per second

Water Year Type:

AN = above normal year

BN = below normal year

C = critical year

D = dry year

W = wet year

1

Sacramento River at Verona

Table F.1-7. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Verona, Year-Round

Alternative 4A_ELT: Upstream—Sacramento River at Verona					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	44,589	45,074	44,102	43,368
	AN	34,120	32,939	32,184	31,498
	BN	20,176	19,324	17,981	17,820
	D	14,756	14,643	14,258	14,042
	C	12,085	12,331	13,242	11,618
	All	27,583	27,430	26,831	26,185
Feb	W	49,892	50,745	49,232	49,193
	AN	39,161	39,631	39,421	38,675
	BN	26,429	25,717	24,443	23,861
	D	18,402	18,079	17,043	17,146
	C	12,822	12,387	11,970	12,073
	All	31,978	32,062	31,045	30,862
Mar	W	43,455	44,098	42,182	42,020
	AN	39,477	39,691	38,234	37,948
	BN	21,484	19,717	18,794	18,292
	D	17,868	17,411	16,384	16,398
	C	11,903	11,765	11,687	11,745
	All	28,888	28,700	27,485	27,318
Apr	W	32,219	32,102	29,791	29,808
	AN	22,250	21,717	20,399	20,331
	BN	14,459	13,834	13,796	13,363
	D	11,113	10,967	11,091	11,113
	C	9,420	9,304	9,457	9,388
	All	19,759	19,488	18,605	18,522
May	W	26,193	23,714	23,605	23,617
	AN	17,080	16,427	17,673	18,037
	BN	11,451	10,653	11,394	11,070
	D	9,283	9,086	9,657	9,621
	C	7,125	7,408	7,453	7,148
	All	15,840	14,820	15,227	15,176
Jun	W	18,367	15,664	17,619	17,607
	AN	13,590	12,877	16,141	16,073
	BN	11,062	10,888	15,347	14,747
	D	10,429	10,702	12,245	12,174
	C	8,911	9,441	9,395	9,315
	All	13,295	12,441	14,632	14,488
Jul	W	16,253	17,144	16,787	16,859
	AN	17,488	18,014	18,002	18,091
	BN	16,698	16,823	16,007	16,747
	D	16,352	16,245	15,434	14,669
	C	14,476	13,348	10,400	10,570
	All	16,271	16,464	15,600	15,619

Alternative 4A_ELT: Upstream—Sacramento River at Verona					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	12,464	13,393	12,501	12,720
	AN	13,691	14,684	14,539	14,626
	BN	13,389	13,098	13,482	13,438
	D	14,688	13,057	10,585	10,148
	C	9,208	8,300	8,189	8,359
	All	12,813	12,713	11,915	11,919
Sep	W	14,279	22,873	11,717	20,732
	AN	10,536	18,667	11,771	15,782
	BN	9,961	10,768	9,518	8,819
	D	10,542	8,618	8,681	7,884
	C	7,764	7,264	7,347	7,287
	All	11,220	14,777	10,044	13,186
Oct	W	11,503	10,681	11,034	10,829
	AN	9,381	8,617	9,187	8,462
	BN	9,867	8,868	9,025	8,865
	D	8,681	8,515	8,817	8,949
	C	8,544	7,862	8,358	7,556
	All	9,861	9,181	9,542	9,256
Nov	W	15,307	16,176	14,485	15,027
	AN	11,792	13,177	10,685	11,449
	BN	9,852	10,676	8,849	9,186
	D	10,157	10,024	9,048	9,185
	C	7,341	7,283	6,889	6,884
	All	11,565	12,146	10,661	11,032
Dec	W	33,840	33,224	32,595	31,091
	AN	17,572	18,415	17,654	17,617
	BN	13,100	13,257	12,878	13,009
	D	12,685	12,465	12,593	12,298
	C	9,771	8,724	9,333	8,974
	All	19,752	19,506	19,247	18,670

cfs = cubic feet per second
Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

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

Alternative 4A_ELT: Upstream—Sacramento River at Verona					
Month	Water Year Type	EXISTING CONDITIONS vs. H1_ELT	NAA_ELT vs. H1_ELT	EXISTING CONDITIONS vs. H2_ELT	NAA_ELT vs. H2_ELT
Jan	W	-487 (-1.1%)	-972 (-2.2%)	-1,221 (-2.7%)	-1,706 (-3.8%)
	AN	-1,936 (-5.7%)	-755 (-2.3%)	-2,623 (-7.7%)	-1,441 (-4.4%)
	BN	-2,194 (-10.9%)	-1,343 (-6.9%)	-2,355 (-11.7%)	-1,504 (-7.8%)
	D	-498 (-3.4%)	-385 (-2.6%)	-714 (-4.8%)	-601 (-4.1%)
	C	1,157 (9.6%)	911 (7.4%)	-467 (-3.9%)	-713 (-5.8%)
	All	-752 (-2.7%)	-599 (-2.2%)	-1,398 (-5.1%)	-1,245 (-4.5%)
Feb	W	-660 (-1.3%)	-1,513 (-3%)	-699 (-1.4%)	-1,552 (-3.1%)
	AN	260 (0.7%)	-210 (-0.5%)	-487 (-1.2%)	-956 (-2.4%)
	BN	-1,986 (-7.5%)	-1,275 (-5%)	-2,568 (-9.7%)	-1,857 (-7.2%)
	D	-1,360 (-7.4%)	-1,036 (-5.7%)	-1,256 (-6.8%)	-932 (-5.2%)
	C	-852 (-6.6%)	-418 (-3.4%)	-749 (-5.8%)	-315 (-2.5%)
	All	-933 (-2.9%)	-1,017 (-3.2%)	-1,117 (-3.5%)	-1,200 (-3.7%)
Mar	W	-1,273 (-2.9%)	-1,916 (-4.3%)	-1,435 (-3.3%)	-2,078 (-4.7%)
	AN	-1,243 (-3.1%)	-1,458 (-3.7%)	-1,530 (-3.9%)	-1,744 (-4.4%)
	BN	-2,690 (-12.5%)	-923 (-4.7%)	-3,192 (-14.9%)	-1,425 (-7.2%)
	D	-1,484 (-8.3%)	-1,026 (-5.9%)	-1,470 (-8.2%)	-1,012 (-5.8%)
	C	-217 (-1.8%)	-78 (-0.7%)	-158 (-1.3%)	-20 (-0.2%)
	All	-1,402 (-4.9%)	-1,215 (-4.2%)	-1,570 (-5.4%)	-1,382 (-4.8%)
Apr	W	-2,429 (-7.5%)	-2,311 (-7.2%)	-2,411 (-7.5%)	-2,293 (-7.1%)
	AN	-1,851 (-8.3%)	-1,318 (-6.1%)	-1,919 (-8.6%)	-1,386 (-6.4%)
	BN	-662 (-4.6%)	-38 (-0.3%)	-1,096 (-7.6%)	-471 (-3.4%)
	D	-22 (-0.2%)	124 (1.1%)	0 (0%)	146 (1.3%)
	C	37 (0.4%)	153 (1.6%)	-32 (-0.3%)	84 (0.9%)
	All	-1,153 (-5.8%)	-882 (-4.5%)	-1,237 (-6.3%)	-966 (-5%)
May	W	-2,588 (-9.9%)	-109 (-0.5%)	-2,576 (-9.8%)	-96 (-0.4%)
	AN	593 (3.5%)	1,246 (7.6%)	958 (5.6%)	1,610 (9.8%)
	BN	-58 (-0.5%)	741 (7%)	-381 (-3.3%)	417 (3.9%)
	D	373 (4%)	571 (6.3%)	337 (3.6%)	535 (5.9%)
	C	328 (4.6%)	44 (0.6%)	23 (0.3%)	-260 (-3.5%)
	All	-614 (-3.9%)	406 (2.7%)	-664 (-4.2%)	356 (2.4%)
Jun	W	-748 (-4.1%)	1,955 (12.5%)	-760 (-4.1%)	1,943 (12.4%)
	AN	2,551 (18.8%)	3,264 (25.3%)	2,483 (18.3%)	3,196 (24.8%)
	BN	4,285 (38.7%)	4,460 (41%)	3,685 (33.3%)	3,859 (35.4%)
	D	1,817 (17.4%)	1,543 (14.4%)	1,746 (16.7%)	1,472 (13.8%)
	C	484 (5.4%)	-46 (-0.5%)	404 (4.5%)	-126 (-1.3%)
	All	1,337 (10.1%)	2,191 (17.6%)	1,194 (9%)	2,047 (16.5%)
Jul	W	534 (3.3%)	-357 (-2.1%)	606 (3.7%)	-285 (-1.7%)
	AN	514 (2.9%)	-12 (-0.1%)	603 (3.5%)	77 (0.4%)
	BN	-691 (-4.1%)	-816 (-4.9%)	50 (0.3%)	-76 (-0.4%)
	D	-919 (-5.6%)	-811 (-5%)	-1,683 (-10.3%)	-1,576 (-9.7%)
	C	-4,075 (-28.2%)	-2,948 (-22.1%)	-3,906 (-27%)	-2,778 (-20.8%)
	All	-671 (-4.1%)	-864 (-5.2%)	-652 (-4%)	-844 (-5.1%)

Alternative 4A_ELT: Upstream—Sacramento River at Verona					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	37 (0.3%)	-892 (-6.7%)	256 (2.1%)	-673 (-5%)
	AN	848 (6.2%)	-145 (-1%)	935 (6.8%)	-57 (-0.4%)
	BN	93 (0.7%)	384 (2.9%)	49 (0.4%)	340 (2.6%)
	D	-4,103 (-27.9%)	-2,472 (-18.9%)	-4,540 (-30.9%)	-2,909 (-22.3%)
	C	-1,018 (-11.1%)	-111 (-1.3%)	-849 (-9.2%)	59 (0.7%)
	All	-898 (-7%)	-797 (-6.3%)	-894 (-7%)	-794 (-6.2%)
Sep	W	-2,562 (-17.9%)	-11,155 (-48.8%)	6,453 (45.2%)	-2,140 (-9.4%)
	AN	1,235 (11.7%)	-6,895 (-36.9%)	5,245 (49.8%)	-2,885 (-15.5%)
	BN	-443 (-4.4%)	-1,250 (-11.6%)	-1,141 (-11.5%)	-1,949 (-18.1%)
	D	-1,861 (-17.7%)	62 (0.7%)	-2,658 (-25.2%)	-734 (-8.5%)
	C	-417 (-5.4%)	84 (1.2%)	-477 (-6.1%)	23 (0.3%)
	All	-1,177 (-10.5%)	-4,734 (-32%)	1,966 (17.5%)	-1,591 (-10.8%)
Oct	W	-470 (-4.1%)	353 (3.3%)	-674 (-5.9%)	149 (1.4%)
	AN	-194 (-2.1%)	570 (6.6%)	-919 (-9.8%)	-156 (-1.8%)
	BN	-842 (-8.5%)	157 (1.8%)	-1,002 (-10.2%)	-3 (0%)
	D	136 (1.6%)	302 (3.5%)	268 (3.1%)	434 (5.1%)
	C	-185 (-2.2%)	496 (6.3%)	-987 (-11.6%)	-305 (-3.9%)
	All	-318 (-3.2%)	361 (3.9%)	-605 (-6.1%)	74 (0.8%)
Nov	W	-822 (-5.4%)	-1,692 (-10.5%)	-280 (-1.8%)	-1,150 (-7.1%)
	AN	-1,107 (-9.4%)	-2,492 (-18.9%)	-343 (-2.9%)	-1,728 (-13.1%)
	BN	-1,003 (-10.2%)	-1,826 (-17.1%)	-666 (-6.8%)	-1,489 (-13.9%)
	D	-1,108 (-10.9%)	-976 (-9.7%)	-972 (-9.6%)	-840 (-8.4%)
	C	-452 (-6.2%)	-394 (-5.4%)	-457 (-6.2%)	-399 (-5.5%)
	All	-903 (-7.8%)	-1,485 (-12.2%)	-533 (-4.6%)	-1,114 (-9.2%)
Dec	W	-1,246 (-3.7%)	-629 (-1.9%)	-2,749 (-8.1%)	-2,133 (-6.4%)
	AN	82 (0.5%)	-761 (-4.1%)	45 (0.3%)	-798 (-4.3%)
	BN	-221 (-1.7%)	-379 (-2.9%)	-90 (-0.7%)	-248 (-1.9%)
	D	-92 (-0.7%)	129 (1%)	-387 (-3%)	-166 (-1.3%)
	C	-437 (-4.5%)	609 (7%)	-796 (-8.2%)	250 (2.9%)
	All	-505 (-2.6%)	-258 (-1.3%)	-1,082 (-5.5%)	-835 (-4.3%)

[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.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

Trinity River below Lewiston

Table F.1-9. Mean Monthly Flows (cfs) for Model Scenarios in the Trinity River Below Lewiston, Year-Round

Alternative 4A_ELT: Upstream—Trinity River below Lewiston					
				A4A_ELT	
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	H1_ELT	H2_ELT
Jan	W	1,440	1,570	1,632	1,606
	AN	300	300	381	300
	BN	358	300	454	300
	D	300	300	300	300
	C	300	300	300	300
	All	671	703	761	714
Feb	W	1,056	1,209	1,340	1,288
	AN	689	773	842	855
	BN	517	559	559	559
	D	300	300	300	300
	C	300	300	300	300
	All	634	702	753	739
Mar	W	1,209	1,335	1,468	1,409
	AN	436	475	475	475
	BN	319	302	302	300
	D	300	300	300	300
	C	300	300	300	300
	All	611	654	696	677
Apr	W	721	740	746	738
	AN	469	561	467	467
	BN	507	508	508	508
	D	529	529	529	529
	C	575	580	580	580
	All	584	605	593	590
May	W	4,636	4,620	4,620	4,620
	AN	4,462	4,450	4,450	4,450
	BN	3,774	3,763	3,763	3,763
	D	3,216	3,216	3,216	3,216
	C	2,092	1,973	1,973	1,973
	All	3,779	3,753	3,753	3,753
Jun	W	3,371	3,613	3,613	3,613
	AN	2,488	2,663	2,663	2,663
	BN	1,672	1,767	1,767	1,767
	D	1,251	1,251	1,251	1,251
	C	783	783	783	783
	All	2,108	2,226	2,226	2,226
Jul	W	1,289	1,161	1,161	1,161
	AN	1,048	1,048	1,048	1,048
	BN	869	916	916	916
	D	667	667	667	667
	C	450	450	450	450
	All	923	890	890	890

Alternative 4A_ELT: Upstream—Trinity River below Lewiston					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	450	450	450	450
	AN	450	450	450	450
	BN	450	450	450	450
	D	450	450	450	450
	C	450	413	413	413
	All	450	445	445	445
Sep	W	450	450	450	450
	AN	450	450	450	450
	BN	450	450	450	450
	D	450	450	450	450
	C	450	356	382	375
	All	450	436	440	439
Oct	W	373	373	373	373
	AN	373	337	342	312
	BN	346	346	346	346
	D	373	352	352	352
	C	373	342	342	342
	All	368	354	355	350
Nov	W	489	510	461	461
	AN	300	275	275	275
	BN	300	300	300	300
	D	300	283	283	283
	C	300	263	275	275
	All	360	354	340	340
Dec	W	1,072	1,281	1,384	1,379
	AN	300	300	300	300
	BN	300	300	300	300
	D	300	300	300	300
	C	300	300	300	300
	All	545	611	644	642

cfs = cubic feet per second
Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

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

Month	Water Year Type	EXISTING CONDITIONS vs. H1_ELT	NAA_ELT vs. H1_ELT	EXISTING CONDITIONS vs. H2_ELT	NAA_ELT vs. H2_ELT
Jan	W	193 (13.4%)	63 (4%)	167 (11.6%)	37 (2.3%)
	AN	81 (26.9%)	81 (26.9%)	0 (0%)	0 (0%)
	BN	96 (26.7%)	154 (51.3%)	-58 (-16.3%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	89 (13.3%)	58 (8.3%)	43 (6.4%)	12 (1.7%)
Feb	W	284 (26.9%)	131 (10.9%)	231 (21.9%)	79 (6.5%)
	AN	153 (22.2%)	69 (9%)	166 (24%)	82 (10.6%)
	BN	43 (8.2%)	0 (0%)	43 (8.2%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	120 (18.9%)	52 (7.4%)	105 (16.5%)	37 (5.3%)
Mar	W	259 (21.5%)	133 (10%)	200 (16.5%)	73 (5.5%)
	AN	39 (8.9%)	0 (0%)	39 (8.9%)	0 (0%)
	BN	-16 (-5.1%)	0 (0%)	-19 (-5.8%)	-2 (-0.7%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	85 (13.9%)	42 (6.5%)	66 (10.8%)	23 (3.5%)
Apr	W	25 (3.5%)	7 (0.9%)	17 (2.4%)	-2 (-0.2%)
	AN	-3 (-0.6%)	-95 (-16.9%)	-3 (-0.6%)	-95 (-16.9%)
	BN	1 (0.2%)	0 (0%)	1 (0.2%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	5 (0.9%)	0 (0%)	5 (0.9%)	0 (0%)
	All	8 (1.5%)	-12 (-1.9%)	6 (1%)	-14 (-2.4%)
May	W	-16 (-0.3%)	0 (0%)	-16 (-0.3%)	0 (0%)
	AN	-12 (-0.3%)	0 (0%)	-12 (-0.3%)	0 (0%)
	BN	-12 (-0.3%)	0 (0%)	-12 (-0.3%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	-119 (-5.7%)	0 (0%)	-119 (-5.7%)	0 (0%)
	All	-26 (-0.7%)	0 (0%)	-26 (-0.7%)	0 (0%)
Jun	W	242 (7.2%)	0 (0%)	242 (7.2%)	0 (0%)
	AN	175 (7%)	0 (0%)	175 (7%)	0 (0%)
	BN	96 (5.7%)	0 (0%)	96 (5.7%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	119 (5.6%)	0 (0%)	119 (5.6%)	0 (0%)
Jul	W	-128 (-9.9%)	0 (0%)	-128 (-9.9%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	47 (5.4%)	0 (0%)	47 (5.4%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	-33 (-3.5%)	0 (0%)	-33 (-3.5%)	0 (0%)

Month	Water Year Type	EXISTING CONDITIONS vs. H1_ELT	NAA_ELT vs. H1_ELT	EXISTING CONDITIONS vs. H2_ELT	NAA_ELT vs. H2_ELT
Aug	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	-38 (-8.3%)	0 (0%)	-38 (-8.3%)	0 (0%)
	All	-5 (-1.2%)	0 (0%)	-5 (-1.2%)	0 (0%)
Sep	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	-68 (-15.2%)	26 (7.3%)	-75 (-16.7%)	19 (5.5%)
	All	-10 (-2.2%)	4 (0.9%)	-11 (-2.4%)	3 (0.7%)
Oct	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	-31 (-8.3%)	5 (1.4%)	-61 (-16.4%)	-25 (-7.6%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	-21 (-5.6%)	0 (0%)	-21 (-5.6%)	0 (0%)
	C	-31 (-8.3%)	0 (0%)	-31 (-8.3%)	0 (0%)
	All	-14 (-3.7%)	1 (0.2%)	-18 (-4.9%)	-4 (-1.1%)
Nov	W	-27 (-5.5%)	-48 (-9.5%)	-28 (-5.7%)	-49 (-9.7%)
	AN	-25 (-8.3%)	0 (0%)	-25 (-8.3%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	-17 (-5.6%)	0 (0%)	-17 (-5.6%)	0 (0%)
	C	-25 (-8.3%)	12 (4.5%)	-25 (-8.3%)	12 (4.5%)
	All	-20 (-5.4%)	-14 (-3.8%)	-20 (-5.5%)	-14 (-3.9%)
Dec	W	312 (29.1%)	103 (8%)	307 (28.7%)	98 (7.6%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	99 (18.2%)	33 (5.3%)	97 (17.9%)	31 (5.1%)

[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.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

Clear Creek below Whiskeytown

Table F.1-11. Mean Monthly Flows (cfs) for Model Scenarios in Clear Creek Below Whiskeytown, Year-Round

Alternative 4A_ELT: Upstream—Clear Creek below Whiskeytown					
				A4A_ELT	
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	H1_ELT	H2_ELT
Jan	W	220	309	309	309
	AN	192	192	192	192
	BN	189	189	189	189
	D	184	192	192	192
	C	155	166	171	171
	All	193	225	225	225
Feb	W	220	249	249	249
	AN	197	196	196	196
	BN	189	189	189	189
	D	184	192	192	192
	C	155	166	171	171
	All	194	206	207	207
Mar	W	200	207	207	207
	AN	197	203	196	196
	BN	189	192	189	189
	D	186	192	192	192
	C	155	166	171	171
	All	188	194	194	194
Apr	W	200	200	200	200
	AN	197	196	196	196
	BN	189	192	189	189
	D	189	192	192	192
	C	155	166	171	171
	All	189	191	191	191
May	W	277	277	277	277
	AN	277	277	277	277
	BN	263	269	269	269
	D	264	264	264	264
	C	211	224	224	224
	All	262	265	265	265
Jun	W	200	200	200	200
	AN	200	200	200	200
	BN	181	186	186	186
	D	180	180	180	180
	C	115	120	120	120
	All	180	181	181	181
Jul	W	85	85	85	85
	AN	85	85	85	85
	BN	85	85	85	85
	D	85	85	85	85
	C	85	99	85	85
	All	85	87	85	85

Alternative 4A_ELT: Upstream—Clear Creek below Whiskeytown					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	85	85	85	85
	AN	85	85	85	85
	BN	85	85	85	85
	D	85	85	85	85
	C	94	85	85	94
	All	86	85	85	86
Sep	W	150	150	150	150
	AN	150	150	150	150
	BN	150	150	150	150
	D	144	150	150	150
	C	133	121	121	108
	All	146	146	146	144
Oct	W	198	198	198	198
	AN	183	183	183	183
	BN	189	179	179	179
	D	175	183	175	175
	C	150	165	154	154
	All	182	185	181	181
Nov	W	198	198	198	198
	AN	185	180	180	180
	BN	184	189	189	189
	D	177	184	176	176
	C	155	158	158	158
	All	183	185	183	183
Dec	W	198	198	198	198
	AN	185	192	192	192
	BN	189	189	189	189
	D	177	189	189	189
	C	155	166	171	171
	All	184	189	190	190

cfs = cubic feet per second
Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

Table F.1-12. Differences[a] (Percent Differences) between Pairs of Model Scenarios in Clear Creek Below Whiskeytown, Year-Round

Alternative 4A_ELT: Upstream—Clear Creek below Whiskeytown					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	88 (40.1%)	0 (0%)	88 (40.1%)	0 (0%)
	AN	0 (0%)	0 (0.1%)	0 (-0.1%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	7 (3.9%)	0 (0%)	7 (3.9%)	0 (0%)
	C	16 (10.2%)	5 (2.9%)	16 (10.2%)	5 (2.9%)
	All	32 (16.5%)	1 (0.3%)	32 (16.5%)	1 (0.3%)
Feb	W	29 (13.3%)	0 (0%)	29 (13.3%)	0 (0%)
	AN	-1 (-0.3%)	0 (0.1%)	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	7 (3.9%)	0 (0%)	7 (3.9%)	0 (0%)
	C	16 (10.2%)	5 (2.9%)	16 (10.2%)	5 (2.9%)
	All	13 (6.7%)	1 (0.4%)	13 (6.7%)	1 (0.3%)
Mar	W	7 (3.3%)	0 (0%)	7 (3.3%)	0 (0%)
	AN	-1 (-0.3%)	-7 (-3.6%)	-1 (-0.4%)	-7 (-3.7%)
	BN	0 (0%)	-3 (-1.4%)	0 (0%)	-3 (-1.4%)
	D	6 (3.2%)	0 (0%)	6 (3.2%)	0 (0%)
	C	16 (10.2%)	5 (2.9%)	16 (10.2%)	5 (2.9%)
	All	6 (3%)	-1 (-0.4%)	6 (3%)	-1 (-0.4%)
Apr	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	-1 (-0.3%)	0 (0.1%)	-1 (-0.4%)	0 (0%)
	BN	0 (0%)	-3 (-1.4%)	0 (0%)	-3 (-1.4%)
	D	3 (1.7%)	0 (0%)	3 (1.7%)	0 (0%)
	C	16 (10.2%)	5 (2.9%)	16 (10.2%)	5 (2.9%)
	All	3 (1.6%)	0 (0.1%)	3 (1.5%)	0 (0.1%)
May	W	0 (0.2%)	0 (0%)	0 (0.2%)	0 (0%)
	AN	0 (0.2%)	0 (0%)	0 (0.2%)	0 (0%)
	BN	6 (2.3%)	0 (0%)	6 (2.3%)	0 (0%)
	D	0 (0.1%)	0 (0%)	0 (0.1%)	0 (0%)
	C	13 (6.4%)	0 (0%)	13 (6.4%)	0 (0%)
	All	3 (1.3%)	0 (0%)	3 (1.3%)	0 (0%)
Jun	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	5 (2.6%)	0 (0%)	5 (2.6%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	5 (4.7%)	0 (0%)	5 (4.7%)	0 (0%)
	All	2 (0.9%)	0 (0%)	2 (0.9%)	0 (0%)
Jul	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	-14 (-13.8%)	0 (0%)	-14 (-13.8%)
	All	0 (0%)	-2 (-2.3%)	0 (0%)	-2 (-2.3%)

Alternative 4A_ELT: Upstream—Clear Creek below Whiskeytown					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	-9 (-9.9%)	0 (0%)	0 (-0.3%)	9 (10.6%)
	All	-1 (-1.6%)	0 (0%)	0 (-0.1%)	1 (1.6%)
Sep	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	6 (3.8%)	0 (0%)	6 (3.8%)	0 (0%)
	C	-12 (-9.4%)	0 (0%)	-25 (-18.7%)	-13 (-10.3%)
	All	-1 (-0.4%)	0 (0%)	-2 (-1.7%)	-2 (-1.3%)
Oct	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	-11 (-5.7%)	0 (0%)	-11 (-5.7%)	0 (0%)
	D	0 (0%)	-8 (-4.5%)	0 (0%)	-8 (-4.5%)
	C	4 (2.8%)	-11 (-6.5%)	4 (2.8%)	-11 (-6.5%)
	All	-1 (-0.7%)	-3 (-1.8%)	-1 (-0.7%)	-3 (-1.8%)
Nov	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	-5 (-2.8%)	0 (0%)	-5 (-2.8%)	0 (0%)
	BN	6 (3.1%)	0 (0%)	6 (3.1%)	0 (0%)
	D	-1 (-0.6%)	-8 (-4.5%)	-1 (-0.6%)	-8 (-4.5%)
	C	3 (2.2%)	0 (0%)	3 (2.2%)	0 (0%)
	All	0 (0.3%)	-2 (-1%)	0 (0.3%)	-2 (-1%)
Dec	W	0 (0%)	0 (-0.1%)	0 (0%)	0 (-0.1%)
	AN	7 (3.6%)	0 (0%)	7 (3.6%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	12 (6.6%)	0 (0%)	12 (6.6%)	0 (0%)
	C	16 (10.2%)	5 (2.9%)	16 (10.2%)	5 (2.9%)
	All	6 (3.2%)	1 (0.4%)	6 (3.2%)	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.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)

Table F.1-13. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River Upstream of Thermalito Afterbay (Low-Flow Channel), Year-Round

Alternative 4A_ELT: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	800	800	800	800
	AN	800	800	800	800
	BN	800	800	800	800
	D	800	800	800	800
	C	800	800	800	800
	All	800	800	800	800
Feb	W	800	800	800	800
	AN	800	800	800	800
	BN	800	800	800	800
	D	800	800	800	800
	C	800	800	800	800
	All	800	800	800	800
Mar	W	800	800	800	800
	AN	800	800	800	800
	BN	800	800	800	800
	D	800	800	800	800
	C	800	800	800	800
	All	800	800	800	800
Apr	W	700	700	700	700
	AN	700	700	700	700
	BN	700	700	700	700
	D	700	700	700	700
	C	700	700	700	700
	All	700	700	700	700
May	W	700	700	700	700
	AN	700	700	700	700
	BN	700	700	700	700
	D	700	700	700	700
	C	700	700	700	700
	All	700	700	700	700
Jun	W	700	700	700	700
	AN	700	700	700	700
	BN	700	700	700	700
	D	700	700	700	700
	C	700	700	700	700
	All	700	700	700	700
Jul	W	700	700	700	700
	AN	700	700	700	700
	BN	700	700	700	700
	D	700	700	700	700
	C	700	700	700	700
	All	700	700	700	700

Alternative 4A_ELT: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	700	700	700	700
	AN	700	700	700	700
	BN	700	700	700	700
	D	700	700	700	700
	C	700	700	700	700
	All	700	700	700	700
Sep	W	773	773	773	773
	AN	773	773	773	773
	BN	773	773	773	773
	D	773	773	773	773
	C	773	773	773	773
	All	773	773	773	773
Oct	W	800	800	800	800
	AN	800	800	800	800
	BN	800	800	800	800
	D	800	800	800	800
	C	800	800	800	800
	All	800	800	800	800
Nov	W	800	800	800	800
	AN	800	800	800	800
	BN	800	800	800	800
	D	800	800	800	800
	C	800	800	800	800
	All	800	800	800	800
Dec	W	800	800	800	800
	AN	800	800	800	800
	BN	800	800	800	800
	D	800	800	800	800
	C	800	800	800	800
	All	800	800	800	800

cfs = cubic feet per second
Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

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

Alternative 4A_ELT: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Feb	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Mar	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Apr	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)
May	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Jun	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Jul	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Alternative 4A_ELT: Upstream—Feather River Low-Flow Channel (Upstream of Thermalito Afterbay)					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Sep	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Oct	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Nov	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dec	W	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	AN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	C	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	All	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.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Feather River High-Flow Channel (at Thermalito Afterbay)

Table F.1-15. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at Thermalito Afterbay (High-Flow Channel), Year-Round

Alternative 4A_ELT: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)					
				A4A_ELT	
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	H1_ELT	H2_ELT
Jan	W	11,257	11,528	12,831	11,518
	AN	4,434	3,419	3,700	3,138
	BN	2,640	1,692	1,686	1,411
	D	1,798	1,477	1,634	1,527
	C	1,459	1,378	2,354	1,359
	All	5,277	4,970	5,601	4,886
Feb	W	12,466	13,732	14,118	14,169
	AN	7,411	5,793	8,440	7,546
	BN	3,916	2,280	3,099	2,029
	D	1,817	1,642	1,604	1,608
	C	1,611	1,467	1,490	1,442
	All	6,340	6,166	6,811	6,507
Mar	W	12,895	13,977	14,178	13,839
	AN	7,733	8,568	9,324	8,860
	BN	3,373	2,347	2,503	2,052
	D	2,017	1,521	1,775	1,679
	C	1,697	1,590	1,671	1,755
	All	6,487	6,653	6,922	6,660
Apr	W	6,472	6,652	6,646	6,669
	AN	2,251	2,240	2,233	2,234
	BN	1,205	1,132	1,262	1,131
	D	1,286	1,448	1,596	1,653
	C	1,389	1,384	1,652	1,608
	All	3,073	3,150	3,242	3,233
May	W	7,528	6,380	6,369	6,369
	AN	3,340	3,342	3,826	4,190
	BN	1,205	1,316	1,470	1,479
	D	1,591	1,862	2,066	2,120
	C	1,574	1,877	1,744	1,694
	All	3,661	3,420	3,539	3,599
Jun	W	5,062	3,659	5,456	5,427
	AN	3,301	3,107	5,825	5,824
	BN	2,707	3,153	7,002	6,490
	D	3,134	3,432	4,614	4,378
	C	2,695	2,812	2,693	2,587
	All	3,632	3,318	5,185	5,021
Jul	W	6,490	7,835	7,384	7,444
	AN	8,757	9,434	9,488	9,550
	BN	8,981	8,936	8,227	8,575
	D	8,294	7,980	7,029	6,454
	C	6,703	6,144	3,251	3,221
	All	7,674	8,041	7,153	7,110

Alternative 4A_ELT: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	3,308	5,462	4,738	4,965
	AN	6,042	6,948	6,730	6,639
	BN	6,295	6,348	6,230	5,848
	D	7,036	5,633	4,304	3,890
	C	2,613	2,236	2,709	2,748
	All	4,935	5,396	4,892	4,800
Sep	W	2,280	8,400	1,331	6,656
	AN	2,253	7,172	2,772	5,742
	BN	2,466	3,161	1,738	1,824
	D	2,366	1,473	1,486	1,194
	C	1,421	1,451	1,581	1,814
	All	2,201	4,788	1,682	3,790
Oct	W	3,456	3,025	3,337	3,243
	AN	2,387	2,577	3,121	2,779
	BN	3,183	2,820	2,817	3,030
	D	2,688	2,786	3,157	3,323
	C	2,472	2,233	2,663	2,311
	All	2,940	2,756	3,078	3,020
Nov	W	3,292	2,812	2,701	2,878
	AN	1,824	1,915	1,825	1,916
	BN	2,101	1,950	1,862	1,930
	D	1,859	1,729	1,750	1,806
	C	1,854	1,803	2,050	1,866
	All	2,349	2,148	2,126	2,192
Dec	W	7,157	5,543	6,879	5,259
	AN	2,951	3,344	3,489	3,484
	BN	2,176	2,096	1,994	2,140
	D	2,364	2,202	2,223	2,366
	C	2,609	1,781	2,304	2,025
	All	3,973	3,349	3,857	3,358

cfs = cubic feet per second
Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

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

Alternative 4A_ELT: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)					
Month	Water Year Type	EXISTING CONDITIONS vs. H1_ELT	NAA_ELT vs. H1_ELT	EXISTING CONDITIONS vs. H2_ELT	NAA_ELT vs. H2_ELT
Jan	W	1,574 (14%)	1,304 (11.3%)	261 (2.3%)	-9 (-0.1%)
	AN	-734 (-16.6%)	281 (8.2%)	-1,296 (-29.2%)	-281 (-8.2%)
	BN	-954 (-36.1%)	-6 (-0.4%)	-1,229 (-46.6%)	-282 (-16.6%)
	D	-164 (-9.1%)	158 (10.7%)	-272 (-15.1%)	50 (3.4%)
	C	894 (61.3%)	976 (70.8%)	-100 (-6.9%)	-19 (-1.3%)
	All	324 (6.1%)	631 (12.7%)	-391 (-7.4%)	-84 (-1.7%)
Feb	W	1,652 (13.3%)	386 (2.8%)	1,702 (13.7%)	436 (3.2%)
	AN	1,029 (13.9%)	2,647 (45.7%)	135 (1.8%)	1,753 (30.3%)
	BN	-817 (-20.9%)	819 (35.9%)	-1,887 (-48.2%)	-251 (-11%)
	D	-212 (-11.7%)	-38 (-2.3%)	-209 (-11.5%)	-34 (-2.1%)
	C	-121 (-7.5%)	23 (1.6%)	-169 (-10.5%)	-25 (-1.7%)
	All	471 (7.4%)	645 (10.5%)	167 (2.6%)	341 (5.5%)
Mar	W	1,284 (10%)	201 (1.4%)	944 (7.3%)	-138 (-1%)
	AN	1,591 (20.6%)	756 (8.8%)	1,128 (14.6%)	292 (3.4%)
	BN	-870 (-25.8%)	156 (6.7%)	-1,322 (-39.2%)	-295 (-12.6%)
	D	-242 (-12%)	254 (16.7%)	-338 (-16.8%)	158 (10.4%)
	C	-26 (-1.5%)	81 (5.1%)	58 (3.4%)	166 (10.4%)
	All	434 (6.7%)	269 (4%)	173 (2.7%)	7 (0.1%)
Apr	W	173 (2.7%)	-6 (-0.1%)	196 (3%)	17 (0.3%)
	AN	-18 (-0.8%)	-7 (-0.3%)	-18 (-0.8%)	-7 (-0.3%)
	BN	57 (4.7%)	130 (11.5%)	-74 (-6.1%)	-1 (-0.1%)
	D	310 (24.1%)	148 (10.2%)	367 (28.6%)	205 (14.2%)
	C	262 (18.9%)	268 (19.4%)	219 (15.7%)	224 (16.2%)
	All	169 (5.5%)	91 (2.9%)	160 (5.2%)	82 (2.6%)
May	W	-1,159 (-15.4%)	-10 (-0.2%)	-1,159 (-15.4%)	-11 (-0.2%)
	AN	486 (14.5%)	484 (14.5%)	850 (25.4%)	848 (25.4%)
	BN	265 (22%)	154 (11.7%)	274 (22.7%)	163 (12.4%)
	D	475 (29.9%)	205 (11%)	529 (33.2%)	259 (13.9%)
	C	169 (10.8%)	-133 (-7.1%)	120 (7.6%)	-183 (-9.7%)
	All	-122 (-3.3%)	119 (3.5%)	-63 (-1.7%)	179 (5.2%)
Jun	W	395 (7.8%)	1,797 (49.1%)	365 (7.2%)	1,767 (48.3%)
	AN	2,523 (76.4%)	2,718 (87.5%)	2,523 (76.4%)	2,717 (87.4%)
	BN	4,295 (158.7%)	3,849 (122.1%)	3,783 (139.8%)	3,337 (105.8%)
	D	1,480 (47.2%)	1,182 (34.4%)	1,244 (39.7%)	946 (27.6%)
	C	-2 (-0.1%)	-119 (-4.2%)	-108 (-4%)	-225 (-8%)
	All	1,552 (42.7%)	1,867 (56.3%)	1,388 (38.2%)	1,702 (51.3%)
Jul	W	893 (13.8%)	-451 (-5.8%)	954 (14.7%)	-391 (-5%)
	AN	731 (8.3%)	54 (0.6%)	793 (9.1%)	116 (1.2%)
	BN	-754 (-8.4%)	-709 (-7.9%)	-406 (-4.5%)	-361 (-4%)
	D	-1,265 (-15.2%)	-950 (-11.9%)	-1,840 (-22.2%)	-1,526 (-19.1%)
	C	-3,452 (-51.5%)	-2,893 (-47.1%)	-3,482 (-51.9%)	-2,923 (-47.6%)
	All	-521 (-6.8%)	-888 (-11%)	-564 (-7.4%)	-931 (-11.6%)

Alternative 4A_ELT: Upstream—Feather River High-Flow Channel (at Thermalito Afterbay)					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	1,430 (43.2%)	-724 (-13.3%)	1,657 (50.1%)	-497 (-9.1%)
	AN	687 (11.4%)	-218 (-3.1%)	596 (9.9%)	-309 (-4.5%)
	BN	-65 (-1%)	-119 (-1.9%)	-447 (-7.1%)	-500 (-7.9%)
	D	-2,732 (-38.8%)	-1,328 (-23.6%)	-3,147 (-44.7%)	-1,743 (-30.9%)
	C	96 (3.7%)	473 (21.2%)	134 (5.1%)	512 (22.9%)
	All	-43 (-0.9%)	-504 (-9.3%)	-135 (-2.7%)	-596 (-11%)
Sep	W	-949 (-41.6%)	-7,069 (-84.2%)	4,376 (191.9%)	-1,744 (-20.8%)
	AN	520 (23.1%)	-4,399 (-61.3%)	3,490 (154.9%)	-1,429 (-19.9%)
	BN	-728 (-29.5%)	-1,423 (-45%)	-642 (-26%)	-1,337 (-42.3%)
	D	-880 (-37.2%)	13 (0.9%)	-1,171 (-49.5%)	-279 (-18.9%)
	C	160 (11.3%)	130 (8.9%)	394 (27.7%)	363 (25%)
	All	-519 (-23.6%)	-3,106 (-64.9%)	1,589 (72.2%)	-998 (-20.8%)
Oct	W	-120 (-3.5%)	311 (10.3%)	-213 (-6.2%)	218 (7.2%)
	AN	735 (30.8%)	544 (21.1%)	393 (16.5%)	202 (7.8%)
	BN	-366 (-11.5%)	-3 (-0.1%)	-153 (-4.8%)	210 (7.5%)
	D	469 (17.5%)	371 (13.3%)	635 (23.6%)	537 (19.3%)
	C	191 (7.7%)	429 (19.2%)	-161 (-6.5%)	77 (3.5%)
	All	138 (4.7%)	322 (11.7%)	80 (2.7%)	264 (9.6%)
Nov	W	-591 (-18%)	-111 (-3.9%)	-415 (-12.6%)	66 (2.3%)
	AN	1 (0.1%)	-90 (-4.7%)	92 (5%)	1 (0%)
	BN	-239 (-11.4%)	-88 (-4.5%)	-171 (-8.1%)	-20 (-1%)
	D	-110 (-5.9%)	20 (1.2%)	-53 (-2.9%)	77 (4.5%)
	C	196 (10.6%)	247 (13.7%)	12 (0.7%)	63 (3.5%)
	All	-224 (-9.5%)	-23 (-1.1%)	-157 (-6.7%)	44 (2%)
Dec	W	-278 (-3.9%)	1,336 (24.1%)	-1,898 (-26.5%)	-284 (-5.1%)
	AN	538 (18.2%)	145 (4.3%)	534 (18.1%)	140 (4.2%)
	BN	-182 (-8.4%)	-103 (-4.9%)	-36 (-1.7%)	43 (2.1%)
	D	-140 (-5.9%)	21 (1%)	2 (0.1%)	164 (7.5%)
	C	-305 (-11.7%)	523 (29.4%)	-584 (-22.4%)	244 (13.7%)
	All	-116 (-2.9%)	508 (15.2%)	-615 (-15.5%)	10 (0.3%)

[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.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Feather River at Confluence with Sacramento River

Table F.1-17. Mean Monthly Flows (cfs) for Model Scenarios in the Feather River at the Confluence with the Sacramento River, Year-Round

Alternative 4A_ELT: Upstream—Feather River at Confluence with Sacramento River					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	23,533	24,852	26,147	24,851
	AN	12,430	11,755	12,039	11,475
	BN	6,499	5,658	5,655	5,377
	D	4,621	4,390	4,546	4,437
	C	3,646	3,551	4,535	3,530
	All	11,938	12,049	12,679	11,967
Feb	W	27,039	29,508	29,895	29,950
	AN	14,819	14,119	16,770	15,877
	BN	9,153	8,081	8,905	7,835
	D	4,402	4,365	4,325	4,329
	C	3,237	3,086	3,107	3,063
	All	13,744	14,212	14,857	14,556
Mar	W	24,172	25,585	25,796	25,453
	AN	19,991	21,173	21,925	21,464
	BN	8,136	7,175	7,360	6,893
	D	5,073	4,626	4,928	4,792
	C	2,933	2,695	2,837	2,895
	All	13,521	13,846	14,141	13,864
Apr	W	15,897	16,056	16,057	16,081
	AN	9,832	9,733	9,732	9,733
	BN	5,401	5,232	5,369	5,238
	D	4,152	4,233	4,383	4,441
	C	3,298	3,195	3,470	3,423
	All	8,795	8,805	8,902	8,893
May	W	14,387	12,987	12,986	12,984
	AN	8,068	7,777	8,271	8,633
	BN	4,705	4,534	4,696	4,703
	D	3,652	3,660	3,868	3,920
	C	2,389	2,492	2,359	2,309
	All	7,697	7,198	7,324	7,382
Jun	W	10,222	7,790	9,601	9,571
	AN	6,391	5,485	8,210	8,206
	BN	4,495	4,346	8,202	7,688
	D	3,853	3,776	4,960	4,723
	C	2,782	2,678	2,558	2,449
	All	6,197	5,236	7,109	6,943
Jul	W	8,177	8,536	8,006	8,064
	AN	9,322	9,442	9,467	9,527
	BN	9,380	8,985	8,263	8,613
	D	8,290	7,690	6,738	6,164
	C	6,451	5,831	2,955	2,927
	All	8,322	8,164	7,246	7,203

Alternative 4A_ELT: Upstream—Feather River at Confluence with Sacramento River					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	4,923	6,656	5,676	5,922
	AN	7,080	7,790	7,515	7,425
	BN	7,235	7,098	6,998	6,628
	D	7,711	6,185	4,842	4,425
	C	2,841	2,408	2,879	2,922
	All	5,941	6,172	5,579	5,495
Sep	W	4,351	10,426	3,359	8,688
	AN	4,194	9,070	4,663	7,662
	BN	4,252	4,896	3,481	3,596
	D	4,179	3,281	3,272	2,996
	C	2,054	2,052	2,123	2,349
	All	3,937	6,490	3,371	5,491
Oct	W	4,176	3,741	4,077	3,968
	AN	2,630	2,839	3,403	3,052
	BN	3,754	3,394	3,421	3,619
	D	3,033	3,139	3,523	3,675
	C	2,938	2,701	3,137	2,780
	All	3,446	3,266	3,607	3,536
Nov	W	4,697	4,407	4,277	4,476
	AN	3,065	3,220	3,104	3,209
	BN	2,687	2,589	2,488	2,573
	D	2,342	2,284	2,289	2,362
	C	2,084	2,073	2,290	2,127
	All	3,216	3,115	3,073	3,158
Dec	W	12,409	11,909	13,250	11,629
	AN	5,193	6,005	6,155	6,148
	BN	3,079	3,342	3,244	3,390
	D	2,838	2,787	2,808	2,952
	C	2,975	2,152	2,678	2,399
	All	6,279	6,152	6,664	6,165

cfs = cubic feet per second
Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

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

Alternative 4A_ELT: Upstream—Feather River at Confluence with Sacramento River					
Month	Water Year Type	EXISTING CONDITIONS vs. H1_ELT	NAA_ELT vs. H1_ELT	EXISTING CONDITIONS vs. H2_ELT	NAA_ELT vs. H2_ELT
Jan	W	2,614 (11.1%)	1,296 (5.2%)	1,318 (5.6%)	-1 (0%)
	AN	-391 (-3.1%)	284 (2.4%)	-955 (-7.7%)	-280 (-2.4%)
	BN	-844 (-13%)	-3 (-0.1%)	-1,122 (-17.3%)	-281 (-5%)
	D	-75 (-1.6%)	156 (3.5%)	-184 (-4%)	47 (1.1%)
	C	888 (24.4%)	983 (27.7%)	-117 (-3.2%)	-22 (-0.6%)
	All	741 (6.2%)	630 (5.2%)	29 (0.2%)	-82 (-0.7%)
Feb	W	2,856 (10.6%)	386 (1.3%)	2,911 (10.8%)	442 (1.5%)
	AN	1,952 (13.2%)	2,651 (18.8%)	1,058 (7.1%)	1,758 (12.4%)
	BN	-248 (-2.7%)	823 (10.2%)	-1,318 (-14.4%)	-246 (-3%)
	D	-77 (-1.7%)	-40 (-0.9%)	-73 (-1.7%)	-36 (-0.8%)
	C	-131 (-4%)	20 (0.7%)	-174 (-5.4%)	-23 (-0.7%)
	All	1,113 (8.1%)	645 (4.5%)	812 (5.9%)	344 (2.4%)
Mar	W	1,624 (6.7%)	211 (0.8%)	1,281 (5.3%)	-132 (-0.5%)
	AN	1,934 (9.7%)	752 (3.6%)	1,474 (7.4%)	291 (1.4%)
	BN	-776 (-9.5%)	185 (2.6%)	-1,243 (-15.3%)	-282 (-3.9%)
	D	-145 (-2.9%)	301 (6.5%)	-281 (-5.5%)	165 (3.6%)
	C	-96 (-3.3%)	142 (5.3%)	-38 (-1.3%)	200 (7.4%)
	All	620 (4.6%)	295 (2.1%)	343 (2.5%)	18 (0.1%)
Apr	W	160 (1%)	1 (0%)	184 (1.2%)	25 (0.2%)
	AN	-100 (-1%)	-1 (0%)	-99 (-1%)	0 (0%)
	BN	-31 (-0.6%)	138 (2.6%)	-162 (-3%)	7 (0.1%)
	D	232 (5.6%)	150 (3.6%)	289 (7%)	208 (4.9%)
	C	171 (5.2%)	275 (8.6%)	125 (3.8%)	228 (7.1%)
	All	107 (1.2%)	97 (1.1%)	98 (1.1%)	88 (1%)
May	W	-1,400 (-9.7%)	-1 (0%)	-1,403 (-9.7%)	-3 (0%)
	AN	203 (2.5%)	494 (6.4%)	565 (7%)	856 (11%)
	BN	-9 (-0.2%)	162 (3.6%)	-1 (0%)	169 (3.7%)
	D	216 (5.9%)	208 (5.7%)	268 (7.3%)	260 (7.1%)
	C	-29 (-1.2%)	-132 (-5.3%)	-80 (-3.3%)	-182 (-7.3%)
	All	-373 (-4.8%)	126 (1.8%)	-315 (-4.1%)	184 (2.6%)
Jun	W	-621 (-6.1%)	1,811 (23.2%)	-651 (-6.4%)	1,781 (22.9%)
	AN	1,819 (28.5%)	2,725 (49.7%)	1,815 (28.4%)	2,721 (49.6%)
	BN	3,707 (82.5%)	3,856 (88.7%)	3,192 (71%)	3,341 (76.9%)
	D	1,107 (28.7%)	1,184 (31.3%)	869 (22.6%)	946 (25.1%)
	C	-224 (-8%)	-120 (-4.5%)	-333 (-12%)	-229 (-8.5%)
	All	913 (14.7%)	1,874 (35.8%)	746 (12%)	1,708 (32.6%)
Jul	W	-172 (-2.1%)	-531 (-6.2%)	-113 (-1.4%)	-473 (-5.5%)
	AN	145 (1.6%)	25 (0.3%)	205 (2.2%)	85 (0.9%)
	BN	-1,117 (-11.9%)	-722 (-8%)	-767 (-8.2%)	-372 (-4.1%)
	D	-1,551 (-18.7%)	-952 (-12.4%)	-2,126 (-25.6%)	-1,527 (-19.9%)
	C	-3,496 (-54.2%)	-2,876 (-49.3%)	-3,524 (-54.6%)	-2,905 (-49.8%)
	All	-1,076 (-12.9%)	-918 (-11.2%)	-1,119 (-13.4%)	-961 (-11.8%)

Alternative 4A_ELT: Upstream—Feather River at Confluence with Sacramento River					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	753 (15.3%)	-980 (-14.7%)	998 (20.3%)	-735 (-11%)
	AN	435 (6.1%)	-275 (-3.5%)	345 (4.9%)	-365 (-4.7%)
	BN	-237 (-3.3%)	-100 (-1.4%)	-608 (-8.4%)	-470 (-6.6%)
	D	-2,869 (-37.2%)	-1,342 (-21.7%)	-3,286 (-42.6%)	-1,759 (-28.4%)
	C	39 (1.4%)	471 (19.6%)	81 (2.9%)	514 (21.4%)
	All	-362 (-6.1%)	-594 (-9.6%)	-446 (-7.5%)	-678 (-11%)
Sep	W	-992 (-22.8%)	-7,067 (-67.8%)	4,337 (99.7%)	-1,738 (-16.7%)
	AN	469 (11.2%)	-4,407 (-48.6%)	3,468 (82.7%)	-1,408 (-15.5%)
	BN	-771 (-18.1%)	-1,416 (-28.9%)	-656 (-15.4%)	-1,301 (-26.6%)
	D	-907 (-21.7%)	-9 (-0.3%)	-1,183 (-28.3%)	-286 (-8.7%)
	C	69 (3.3%)	70 (3.4%)	295 (14.4%)	297 (14.5%)
	All	-567 (-14.4%)	-3,119 (-48.1%)	1,554 (39.5%)	-998 (-15.4%)
Oct	W	-99 (-2.4%)	336 (9%)	-208 (-5%)	227 (6.1%)
	AN	772 (29.4%)	563 (19.8%)	421 (16%)	212 (7.5%)
	BN	-332 (-8.9%)	27 (0.8%)	-135 (-3.6%)	225 (6.6%)
	D	490 (16.2%)	383 (12.2%)	643 (21.2%)	536 (17.1%)
	C	199 (6.8%)	436 (16.2%)	-158 (-5.4%)	79 (2.9%)
	All	162 (4.7%)	342 (10.5%)	91 (2.6%)	271 (8.3%)
Nov	W	-420 (-8.9%)	-130 (-2.9%)	-221 (-4.7%)	69 (1.6%)
	AN	40 (1.3%)	-116 (-3.6%)	145 (4.7%)	-11 (-0.3%)
	BN	-200 (-7.4%)	-102 (-3.9%)	-115 (-4.3%)	-17 (-0.6%)
	D	-53 (-2.3%)	5 (0.2%)	19 (0.8%)	78 (3.4%)
	C	206 (9.9%)	217 (10.5%)	43 (2%)	54 (2.6%)
	All	-143 (-4.4%)	-43 (-1.4%)	-58 (-1.8%)	42 (1.4%)
Dec	W	841 (6.8%)	1,342 (11.3%)	-780 (-6.3%)	-279 (-2.3%)
	AN	962 (18.5%)	149 (2.5%)	955 (18.4%)	143 (2.4%)
	BN	164 (5.3%)	-98 (-2.9%)	310 (10.1%)	48 (1.4%)
	D	-30 (-1.1%)	20 (0.7%)	114 (4%)	164 (5.9%)
	C	-297 (-10%)	525 (24.4%)	-576 (-19.4%)	246 (11.4%)
	All	385 (6.1%)	512 (8.3%)	-114 (-1.8%)	13 (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.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

2

American River at Nimbus Dam

Table F.1-19. Mean Monthly Flows (cfs) for Model Scenarios in the American River at Nimbus Dam, Year-Round

Alternative 4A_ELT: Upstream—American River at Nimbus Dam					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	8,806	10,113	10,104	10,103
	AN	4,833	4,941	5,032	4,989
	BN	2,392	2,334	2,123	2,085
	D	1,723	1,620	1,532	1,561
	C	1,474	1,241	1,346	1,315
	All	4,502	4,865	4,836	4,825
Feb	W	9,294	10,422	10,485	10,460
	AN	6,469	7,220	7,658	7,484
	BN	4,360	4,706	4,822	4,896
	D	1,852	1,769	1,731	1,709
	C	1,185	1,073	1,139	1,120
	All	5,218	5,710	5,815	5,787
Mar	W	6,089	6,454	6,452	6,454
	AN	5,453	5,762	5,813	5,815
	BN	2,429	2,622	2,662	2,648
	D	2,191	2,184	2,229	2,277
	C	939	888	833	868
	All	3,762	3,947	3,962	3,976
Apr	W	5,300	5,368	5,366	5,368
	AN	3,546	3,356	3,352	3,353
	BN	3,126	3,117	3,092	3,141
	D	1,837	1,761	1,785	1,800
	C	1,156	1,091	1,290	1,244
	All	3,306	3,271	3,300	3,306
May	W	6,157	5,673	5,672	5,672
	AN	3,885	3,148	3,256	3,259
	BN	2,930	2,466	2,662	2,658
	D	1,790	1,629	1,730	1,711
	C	1,182	1,319	1,018	1,332
	All	3,587	3,231	3,258	3,300
Jun	W	6,003	4,521	4,771	4,760
	AN	3,346	2,855	3,414	3,451
	BN	2,864	2,558	3,465	3,089
	D	2,506	2,564	3,109	3,131
	C	1,824	1,297	1,334	1,289
	All	3,699	3,041	3,481	3,417
Jul	W	4,108	3,571	3,956	3,972
	AN	4,638	4,634	4,646	4,644
	BN	4,744	4,544	4,491	4,647
	D	3,577	3,091	3,349	3,142
	C	1,784	1,670	2,027	1,693
	All	3,838	3,509	3,733	3,670

Alternative 4A_ELT: Upstream—American River at Nimbus Dam					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	3,520	2,576	2,411	2,381
	AN	2,542	2,200	2,097	2,086
	BN	2,495	2,313	2,243	2,197
	D	2,613	1,779	1,484	1,412
	C	1,500	1,308	948	1,088
	All	2,707	2,115	1,919	1,905
Sep	W	4,025	3,982	2,623	3,361
	AN	2,764	2,645	1,775	2,187
	BN	2,370	1,915	1,504	1,492
	D	1,856	1,373	1,342	1,360
	C	1,164	761	916	703
	All	2,663	2,389	1,777	2,042
Oct	W	1,723	1,700	1,618	1,594
	AN	1,706	1,609	1,520	1,546
	BN	1,602	1,517	1,792	1,765
	D	1,468	1,479	1,527	1,414
	C	1,461	1,375	1,655	1,679
	All	1,605	1,559	1,619	1,589
Nov	W	3,527	3,436	3,073	2,984
	AN	3,181	3,187	2,780	2,878
	BN	2,067	1,985	1,708	1,696
	D	2,176	1,725	1,707	1,694
	C	1,994	1,707	1,737	1,653
	All	2,706	2,523	2,302	2,271
Dec	W	6,302	6,671	6,901	6,798
	AN	3,137	3,089	3,020	3,030
	BN	2,676	2,857	3,134	3,009
	D	1,741	1,643	1,564	1,606
	C	1,524	1,374	1,468	1,442
	All	3,519	3,617	3,723	3,676

cfs = cubic feet per second
Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

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

Alternative 4A_ELT: Upstream—American River at Nimbus Dam					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	1,297 (14.7%)	-9 (-0.1%)	1,297 (14.7%)	-10 (-0.1%)
	AN	200 (4.1%)	91 (1.9%)	156 (3.2%)	48 (1%)
	BN	-270 (-11.3%)	-211 (-9%)	-307 (-12.8%)	-248 (-10.6%)
	D	-191 (-11.1%)	-88 (-5.4%)	-162 (-9.4%)	-59 (-3.6%)
	C	-129 (-8.7%)	104 (8.4%)	-159 (-10.8%)	74 (6%)
	All	334 (7.4%)	-30 (-0.6%)	323 (7.2%)	-41 (-0.8%)
Feb	W	1,191 (12.8%)	63 (0.6%)	1,167 (12.6%)	38 (0.4%)
	AN	1,189 (18.4%)	438 (6.1%)	1,015 (15.7%)	264 (3.7%)
	BN	462 (10.6%)	116 (2.5%)	536 (12.3%)	190 (4%)
	D	-121 (-6.6%)	-38 (-2.1%)	-143 (-7.7%)	-59 (-3.3%)
	C	-46 (-3.8%)	66 (6.1%)	-65 (-5.5%)	46 (4.3%)
	All	597 (11.4%)	105 (1.8%)	569 (10.9%)	77 (1.3%)
Mar	W	364 (6%)	-1 (0%)	365 (6%)	0 (0%)
	AN	359 (6.6%)	51 (0.9%)	362 (6.6%)	53 (0.9%)
	BN	233 (9.6%)	40 (1.5%)	219 (9%)	26 (1%)
	D	37 (1.7%)	44 (2%)	85 (3.9%)	92 (4.2%)
	C	-106 (-11.3%)	-55 (-6.1%)	-71 (-7.6%)	-20 (-2.3%)
	All	200 (5.3%)	16 (0.4%)	214 (5.7%)	29 (0.7%)
Apr	W	66 (1.2%)	-2 (0%)	68 (1.3%)	0 (0%)
	AN	-193 (-5.5%)	-3 (-0.1%)	-193 (-5.4%)	-3 (-0.1%)
	BN	-34 (-1.1%)	-25 (-0.8%)	15 (0.5%)	24 (0.8%)
	D	-53 (-2.9%)	24 (1.3%)	-38 (-2%)	39 (2.2%)
	C	134 (11.6%)	199 (18.2%)	88 (7.6%)	153 (14%)
	All	-5 (-0.2%)	29 (0.9%)	0 (0%)	35 (1.1%)
May	W	-485 (-7.9%)	-1 (0%)	-485 (-7.9%)	-1 (0%)
	AN	-629 (-16.2%)	108 (3.4%)	-626 (-16.1%)	111 (3.5%)
	BN	-268 (-9.1%)	197 (8%)	-273 (-9.3%)	192 (7.8%)
	D	-60 (-3.4%)	100 (6.2%)	-79 (-4.4%)	82 (5%)
	C	-164 (-13.9%)	-302 (-22.9%)	151 (12.7%)	13 (1%)
	All	-329 (-9.2%)	27 (0.8%)	-287 (-8%)	68 (2.1%)
Jun	W	-1,233 (-20.5%)	250 (5.5%)	-1,244 (-20.7%)	239 (5.3%)
	AN	68 (2%)	559 (19.6%)	105 (3.1%)	596 (20.9%)
	BN	602 (21%)	907 (35.5%)	226 (7.9%)	531 (20.8%)
	D	603 (24.1%)	544 (21.2%)	625 (25%)	566 (22.1%)
	C	-490 (-26.9%)	37 (2.9%)	-535 (-29.3%)	-8 (-0.6%)
	All	-217 (-5.9%)	441 (14.5%)	-281 (-7.6%)	377 (12.4%)
Jul	W	-152 (-3.7%)	386 (10.8%)	-136 (-3.3%)	401 (11.2%)
	AN	8 (0.2%)	11 (0.2%)	6 (0.1%)	9 (0.2%)
	BN	-253 (-5.3%)	-53 (-1.2%)	-97 (-2%)	103 (2.3%)
	D	-228 (-6.4%)	257 (8.3%)	-435 (-12.2%)	51 (1.6%)
	C	242 (13.6%)	356 (21.3%)	-92 (-5.1%)	22 (1.3%)
	All	-105 (-2.7%)	223 (6.4%)	-168 (-4.4%)	160 (4.6%)

Alternative 4A_ELT: Upstream—American River at Nimbus Dam					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	-1,109 (-31.5%)	-164 (-6.4%)	-1,139 (-32.4%)	-195 (-7.6%)
	AN	-445 (-17.5%)	-103 (-4.7%)	-456 (-17.9%)	-114 (-5.2%)
	BN	-251 (-10.1%)	-69 (-3%)	-298 (-11.9%)	-116 (-5%)
	D	-1,129 (-43.2%)	-295 (-16.6%)	-1,201 (-46%)	-367 (-20.6%)
	C	-553 (-36.8%)	-360 (-27.5%)	-412 (-27.4%)	-219 (-16.8%)
	All	-788 (-29.1%)	-196 (-9.3%)	-803 (-29.6%)	-211 (-10%)
Sep	W	-1,401 (-34.8%)	-1,359 (-34.1%)	-664 (-16.5%)	-621 (-15.6%)
	AN	-989 (-35.8%)	-869 (-32.9%)	-577 (-20.9%)	-457 (-17.3%)
	BN	-866 (-36.6%)	-411 (-21.5%)	-879 (-37.1%)	-423 (-22.1%)
	D	-514 (-27.7%)	-31 (-2.3%)	-496 (-26.7%)	-13 (-1%)
	C	-249 (-21.4%)	155 (20.4%)	-461 (-39.6%)	-58 (-7.6%)
	All	-886 (-33.3%)	-612 (-25.6%)	-621 (-23.3%)	-348 (-14.5%)
Oct	W	-105 (-6.1%)	-81 (-4.8%)	-129 (-7.5%)	-106 (-6.2%)
	AN	-186 (-10.9%)	-89 (-5.5%)	-160 (-9.4%)	-63 (-3.9%)
	BN	190 (11.9%)	275 (18.1%)	163 (10.2%)	248 (16.4%)
	D	59 (4%)	48 (3.2%)	-54 (-3.7%)	-65 (-4.4%)
	C	194 (13.3%)	279 (20.3%)	219 (15%)	304 (22.1%)
	All	13 (0.8%)	60 (3.8%)	-16 (-1%)	30 (1.9%)
Nov	W	-454 (-12.9%)	-363 (-10.6%)	-543 (-15.4%)	-452 (-13.2%)
	AN	-401 (-12.6%)	-407 (-12.8%)	-303 (-9.5%)	-309 (-9.7%)
	BN	-359 (-17.4%)	-278 (-14%)	-371 (-18%)	-289 (-14.6%)
	D	-470 (-21.6%)	-18 (-1%)	-482 (-22.2%)	-30 (-1.8%)
	C	-258 (-12.9%)	30 (1.8%)	-341 (-17.1%)	-54 (-3.1%)
	All	-405 (-15%)	-222 (-8.8%)	-436 (-16.1%)	-252 (-10%)
Dec	W	599 (9.5%)	230 (3.4%)	497 (7.9%)	127 (1.9%)
	AN	-117 (-3.7%)	-69 (-2.2%)	-107 (-3.4%)	-60 (-1.9%)
	BN	458 (17.1%)	277 (9.7%)	333 (12.5%)	152 (5.3%)
	D	-177 (-10.2%)	-80 (-4.8%)	-135 (-7.7%)	-37 (-2.3%)
	C	-56 (-3.7%)	94 (6.8%)	-82 (-5.4%)	68 (4.9%)
	All	204 (5.8%)	106 (2.9%)	157 (4.5%)	59 (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.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

American River at Confluence with Sacramento River

Table F.1-21. Mean Monthly Flows (cfs) for Model Scenarios in the American River at the Confluence with the Sacramento River, Year-Round

Alternative 4A_ELT: Upstream—American River at Confluence with Sacramento River					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	8,748	10,031	10,020	10,021
	AN	4,806	4,895	4,987	4,944
	BN	2,326	2,246	2,033	1,997
	D	1,654	1,535	1,449	1,477
	C	1,403	1,152	1,256	1,226
	All	4,443	4,786	4,756	4,745
Feb	W	9,183	10,275	10,338	10,313
	AN	6,423	7,148	7,585	7,412
	BN	4,309	4,631	4,749	4,824
	D	1,781	1,679	1,642	1,621
	C	1,119	985	1,050	1,030
	All	5,142	5,607	5,713	5,685
Mar	W	5,980	6,304	6,302	6,303
	AN	5,365	5,641	5,688	5,692
	BN	2,340	2,503	2,542	2,527
	D	2,121	2,095	2,139	2,187
	C	865	785	738	764
	All	3,673	3,826	3,842	3,855
Apr	W	5,156	5,164	5,162	5,164
	AN	3,383	3,136	3,132	3,132
	BN	2,984	2,927	2,901	2,950
	D	1,672	1,550	1,573	1,588
	C	996	886	1,089	1,040
	All	3,152	3,066	3,095	3,100
May	W	5,959	5,415	5,414	5,414
	AN	3,700	2,911	3,019	3,022
	BN	2,733	2,222	2,419	2,413
	D	1,605	1,399	1,499	1,480
	C	1,014	1,118	819	1,129
	All	3,398	2,993	3,020	3,061
Jun	W	5,743	4,206	4,456	4,445
	AN	3,103	2,562	3,120	3,158
	BN	2,631	2,274	3,180	2,803
	D	2,282	2,289	2,832	2,855
	C	1,621	1,052	1,101	1,044
	All	3,462	2,753	3,195	3,129
Jul	W	3,844	3,264	3,647	3,663
	AN	4,399	4,344	4,351	4,348
	BN	4,509	4,257	4,196	4,356
	D	3,347	2,807	3,059	2,852
	C	1,568	1,421	1,782	1,439
	All	3,597	3,221	3,442	3,378

Alternative 4A_ELT: Upstream—American River at Confluence with Sacramento River					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	3,295	2,304	2,136	2,106
	AN	2,313	1,921	1,819	1,807
	BN	2,265	2,035	1,966	1,918
	D	2,395	1,516	1,219	1,149
	C	1,314	1,097	727	893
	All	2,488	1,852	1,653	1,643
Sep	W	3,846	3,771	2,413	3,151
	AN	2,594	2,437	1,568	1,980
	BN	2,205	1,712	1,302	1,290
	D	1,691	1,177	1,148	1,167
	C	1,011	591	749	535
	All	2,495	2,189	1,579	1,844
Oct	W	1,607	1,561	1,485	1,458
	AN	1,597	1,481	1,397	1,421
	BN	1,472	1,364	1,647	1,617
	D	1,344	1,333	1,385	1,271
	C	1,342	1,232	1,514	1,537
	All	1,486	1,418	1,482	1,451
Nov	W	3,472	3,363	3,001	2,912
	AN	3,100	3,089	2,682	2,780
	BN	1,990	1,889	1,609	1,598
	D	2,094	1,624	1,606	1,594
	C	1,897	1,590	1,617	1,534
	All	2,632	2,430	2,208	2,177
Dec	W	6,255	6,607	6,841	6,739
	AN	3,072	3,007	2,941	2,950
	BN	2,609	2,774	3,053	2,928
	D	1,675	1,564	1,485	1,527
	C	1,443	1,278	1,371	1,346
	All	3,457	3,539	3,647	3,600

cfs = cubic feet per second
Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

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

Alternative 4A_ELT: Upstream—American River at Confluence with Sacramento River					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	1,273 (14.5%)	-11 (-0.1%)	1,274 (14.6%)	-10 (-0.1%)
	AN	181 (3.8%)	92 (1.9%)	138 (2.9%)	49 (1%)
	BN	-293 (-12.6%)	-213 (-9.5%)	-330 (-14.2%)	-249 (-11.1%)
	D	-206 (-12.4%)	-86 (-5.6%)	-178 (-10.7%)	-58 (-3.8%)
	C	-148 (-10.5%)	103 (9%)	-177 (-12.6%)	73 (6.4%)
	All	313 (7.1%)	-30 (-0.6%)	303 (6.8%)	-41 (-0.9%)
Feb	W	1,155 (12.6%)	63 (0.6%)	1,131 (12.3%)	38 (0.4%)
	AN	1,162 (18.1%)	437 (6.1%)	989 (15.4%)	264 (3.7%)
	BN	440 (10.2%)	118 (2.5%)	515 (11.9%)	193 (4.2%)
	D	-138 (-7.8%)	-37 (-2.2%)	-160 (-9%)	-59 (-3.5%)
	C	-69 (-6.2%)	65 (6.6%)	-88 (-7.9%)	45 (4.6%)
	All	571 (11.1%)	106 (1.9%)	543 (10.6%)	77 (1.4%)
Mar	W	322 (5.4%)	-2 (0%)	324 (5.4%)	-1 (0%)
	AN	323 (6%)	47 (0.8%)	327 (6.1%)	51 (0.9%)
	BN	202 (8.6%)	39 (1.6%)	187 (8%)	25 (1%)
	D	18 (0.9%)	45 (2.1%)	66 (3.1%)	93 (4.4%)
	C	-126 (-14.6%)	-47 (-6%)	-100 (-11.6%)	-21 (-2.6%)
	All	170 (4.6%)	16 (0.4%)	182 (5%)	29 (0.8%)
Apr	W	6 (0.1%)	-2 (0%)	8 (0.2%)	0 (0%)
	AN	-250 (-7.4%)	-4 (-0.1%)	-250 (-7.4%)	-4 (-0.1%)
	BN	-82 (-2.8%)	-25 (-0.9%)	-33 (-1.1%)	24 (0.8%)
	D	-99 (-5.9%)	23 (1.5%)	-84 (-5.1%)	38 (2.4%)
	C	94 (9.4%)	203 (22.9%)	45 (4.5%)	154 (17.3%)
	All	-57 (-1.8%)	29 (1%)	-52 (-1.6%)	34 (1.1%)
May	W	-545 (-9.1%)	-1 (0%)	-545 (-9.1%)	-1 (0%)
	AN	-680 (-18.4%)	108 (3.7%)	-677 (-18.3%)	111 (3.8%)
	BN	-315 (-11.5%)	197 (8.9%)	-320 (-11.7%)	191 (8.6%)
	D	-106 (-6.6%)	100 (7.2%)	-125 (-7.8%)	82 (5.8%)
	C	-195 (-19.2%)	-299 (-26.7%)	116 (11.4%)	11 (1%)
	All	-378 (-11.1%)	27 (0.9%)	-337 (-9.9%)	68 (2.3%)
Jun	W	-1,287 (-22.4%)	250 (5.9%)	-1,298 (-22.6%)	239 (5.7%)
	AN	17 (0.5%)	558 (21.8%)	54 (1.7%)	595 (23.2%)
	BN	549 (20.9%)	906 (39.8%)	172 (6.5%)	529 (23.3%)
	D	551 (24.1%)	543 (23.7%)	573 (25.1%)	566 (24.7%)
	C	-520 (-32.1%)	49 (4.7%)	-578 (-35.6%)	-8 (-0.8%)
	All	-267 (-7.7%)	442 (16.1%)	-333 (-9.6%)	376 (13.7%)
Jul	W	-197 (-5.1%)	383 (11.7%)	-182 (-4.7%)	399 (12.2%)
	AN	-48 (-1.1%)	7 (0.2%)	-50 (-1.1%)	4 (0.1%)
	BN	-313 (-7%)	-61 (-1.4%)	-154 (-3.4%)	98 (2.3%)
	D	-288 (-8.6%)	253 (9%)	-495 (-14.8%)	46 (1.6%)
	C	214 (13.6%)	361 (25.4%)	-129 (-8.2%)	19 (1.3%)
	All	-155 (-4.3%)	220 (6.8%)	-219 (-6.1%)	157 (4.9%)

Alternative 4A_ELT: Upstream—American River at Confluence with Sacramento River					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	-1,158 (-35.2%)	-168 (-7.3%)	-1,189 (-36.1%)	-198 (-8.6%)
	AN	-495 (-21.4%)	-103 (-5.3%)	-506 (-21.9%)	-114 (-5.9%)
	BN	-299 (-13.2%)	-69 (-3.4%)	-347 (-15.3%)	-117 (-5.7%)
	D	-1,176 (-49.1%)	-297 (-19.6%)	-1,246 (-52%)	-367 (-24.2%)
	C	-587 (-44.7%)	-370 (-33.7%)	-421 (-32%)	-204 (-18.6%)
	All	-835 (-33.5%)	-199 (-10.8%)	-845 (-34%)	-210 (-11.3%)
Sep	W	-1,432 (-37.2%)	-1,358 (-36%)	-694 (-18.1%)	-619 (-16.4%)
	AN	-1,026 (-39.5%)	-868 (-35.6%)	-614 (-23.7%)	-456 (-18.7%)
	BN	-904 (-41%)	-410 (-24%)	-915 (-41.5%)	-422 (-24.6%)
	D	-543 (-32.1%)	-29 (-2.4%)	-524 (-31%)	-10 (-0.8%)
	C	-261 (-25.9%)	159 (26.8%)	-476 (-47.1%)	-56 (-9.4%)
	All	-916 (-36.7%)	-611 (-27.9%)	-651 (-26.1%)	-346 (-15.8%)
Oct	W	-122 (-7.6%)	-76 (-4.9%)	-149 (-9.3%)	-103 (-6.6%)
	AN	-200 (-12.5%)	-84 (-5.7%)	-176 (-11%)	-60 (-4.1%)
	BN	175 (11.9%)	283 (20.7%)	145 (9.9%)	253 (18.6%)
	D	41 (3.1%)	52 (3.9%)	-72 (-5.4%)	-61 (-4.6%)
	C	173 (12.9%)	282 (22.9%)	196 (14.6%)	305 (24.8%)
	All	-4 (-0.2%)	65 (4.6%)	-35 (-2.4%)	33 (2.3%)
Nov	W	-471 (-13.6%)	-362 (-10.8%)	-560 (-16.1%)	-451 (-13.4%)
	AN	-417 (-13.5%)	-406 (-13.2%)	-320 (-10.3%)	-309 (-10%)
	BN	-380 (-19.1%)	-280 (-14.8%)	-392 (-19.7%)	-291 (-15.4%)
	D	-489 (-23.3%)	-18 (-1.1%)	-500 (-23.9%)	-30 (-1.8%)
	C	-280 (-14.7%)	27 (1.7%)	-363 (-19.2%)	-56 (-3.6%)
	All	-424 (-16.1%)	-222 (-9.1%)	-454 (-17.3%)	-253 (-10.4%)
Dec	W	586 (9.4%)	233 (3.5%)	484 (7.7%)	131 (2%)
	AN	-130 (-4.2%)	-66 (-2.2%)	-122 (-4%)	-57 (-1.9%)
	BN	444 (17%)	279 (10.1%)	319 (12.2%)	154 (5.6%)
	D	-190 (-11.3%)	-79 (-5.1%)	-148 (-8.8%)	-37 (-2.4%)
	C	-72 (-5%)	94 (7.3%)	-97 (-6.7%)	68 (5.3%)
	All	190 (5.5%)	108 (3.1%)	143 (4.1%)	61 (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.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Stanislaus River at the Confluence with the San Joaquin River

Table F.1-23. Mean Monthly Flows (cfs) for Model Scenarios in the Stanislaus River at the Confluence with the San Joaquin River, Year-Round

Alternative 4A_ELT: Upstream—Stanislaus River at Confluence with the San Joaquin River					
				A4A_ELT	
Month	Water Year Type[a]	EXISTING CONDITIONS	NAA_ELT	H1_ELT	H2_ELT
Jan	W	956	968	968	968
	AN	843	911	912	912
	BN	416	382	382	382
	D	403	393	393	393
	C	314	278	278	278
	All	635	638	638	638
Feb	W	1,285	1,500	1,500	1,500
	AN	917	985	985	985
	BN	551	522	522	522
	D	562	411	410	410
	C	490	349	349	349
	All	827	847	847	847
Mar	W	2,063	2,259	2,260	2,259
	AN	1,295	1,108	1,108	1,108
	BN	732	642	642	642
	D	559	431	431	431
	C	541	445	445	445
	All	1,167	1,134	1,135	1,134
Apr	W	2,054	2,047	2,047	2,047
	AN	1,719	1,605	1,605	1,605
	BN	1,494	1,344	1,344	1,344
	D	1,438	1,320	1,320	1,320
	C	823	720	721	720
	All	1,562	1,475	1,475	1,475
May	W	1,653	1,688	1,688	1,688
	AN	1,389	1,292	1,294	1,294
	BN	1,238	1,094	1,093	1,093
	D	1,140	1,039	1,040	1,039
	C	715	648	648	648
	All	1,271	1,211	1,211	1,211
Jun	W	1,608	1,786	1,785	1,785
	AN	1,134	1,087	1,084	1,085
	BN	663	609	606	607
	D	447	383	383	385
	C	332	308	309	308
	All	932	952	951	952
Jul	W	1,064	1,070	1,070	1,069
	AN	489	456	456	456
	BN	450	427	427	427
	D	398	355	356	355
	C	337	318	317	318
	All	607	588	588	588

Alternative 4A_ELT: Upstream—Stanislaus River at Confluence with the San Joaquin River					
Month	Water Year Type[a]	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	930	843	843	843
	AN	476	455	455	455
	BN	423	422	422	422
	D	387	384	384	384
	C	341	341	341	341
	All	560	530	530	530
Sep	W	1,040	965	965	965
	AN	503	477	477	477
	BN	417	413	413	413
	D	395	392	392	392
	C	324	327	327	327
	All	594	567	567	567
Oct	W	897	869	869	869
	AN	873	844	844	844
	BN	903	851	851	851
	D	984	980	980	980
	C	689	670	669	670
	All	867	840	840	840
Nov	W	426	427	427	427
	AN	580	591	591	591
	BN	341	341	341	341
	D	345	337	337	337
	C	325	311	311	311
	All	410	409	409	409
Dec	W	513	526	526	526
	AN	722	767	767	767
	BN	331	331	331	331
	D	317	310	310	310
	C	289	275	275	275
	All	450	459	459	459

[a] Water year type for this location was determined using the San Joaquin River Valley Index.
cfs = cubic feet per second
Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

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

Alternative 4A_ELT: Upstream—Stanislaus River at Confluence with the San Joaquin River					
Month	**Water Year Type[b]**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	12 (1.2%)	0 (0%)	12 (1.2%)	0 (0%)
	AN	69 (8.2%)	1 (0.1%)	69 (8.2%)	1 (0.1%)
	BN	-34 (-8.2%)	0 (0%)	-34 (-8.2%)	0 (0%)
	D	-10 (-2.4%)	0 (0%)	-10 (-2.4%)	0 (0%)
	C	-36 (-11.5%)	0 (0%)	-36 (-11.5%)	0 (0%)
	All	3 (0.5%)	0 (0%)	3 (0.5%)	0 (0%)
Feb	W	215 (16.8%)	0 (0%)	215 (16.8%)	0 (0%)
	AN	68 (7.4%)	0 (0%)	68 (7.4%)	0 (0%)
	BN	-30 (-5.4%)	0 (0%)	-30 (-5.4%)	0 (0%)
	D	-151 (-27%)	0 (0%)	-151 (-27%)	0 (0%)
	C	-141 (-28.8%)	0 (0%)	-141 (-28.8%)	0 (0%)
	All	20 (2.4%)	0 (0%)	20 (2.4%)	0 (0%)
Mar	W	197 (9.5%)	1 (0.1%)	196 (9.5%)	0 (0%)
	AN	-187 (-14.4%)	0 (0%)	-187 (-14.4%)	0 (0%)
	BN	-91 (-12.4%)	0 (0%)	-91 (-12.4%)	0 (0%)
	D	-127 (-22.8%)	0 (0%)	-127 (-22.8%)	0 (0%)
	C	-96 (-17.7%)	0 (0%)	-96 (-17.7%)	0 (0%)
	All	-32 (-2.7%)	0 (0%)	-32 (-2.8%)	0 (0%)
Apr	W	-6 (-0.3%)	0 (0%)	-6 (-0.3%)	0 (0%)
	AN	-114 (-6.6%)	0 (0%)	-114 (-6.6%)	0 (0%)
	BN	-150 (-10%)	-1 (0%)	-149 (-10%)	0 (0%)
	D	-119 (-8.2%)	0 (0%)	-118 (-8.2%)	0 (0%)
	C	-102 (-12.4%)	1 (0.1%)	-103 (-12.5%)	0 (0%)
	All	-87 (-5.5%)	0 (0%)	-87 (-5.5%)	0 (0%)
May	W	35 (2.1%)	0 (0%)	35 (2.1%)	0 (0%)
	AN	-95 (-6.8%)	1 (0.1%)	-95 (-6.8%)	2 (0.1%)
	BN	-145 (-11.7%)	-1 (-0.1%)	-145 (-11.7%)	-1 (-0.1%)
	D	-100 (-8.8%)	0 (0%)	-101 (-8.8%)	0 (0%)
	C	-67 (-9.3%)	0 (0.1%)	-67 (-9.4%)	0 (0%)
	All	-60 (-4.7%)	0 (0%)	-60 (-4.7%)	0 (0%)
Jun	W	178 (11.1%)	0 (0%)	178 (11.1%)	0 (0%)
	AN	-49 (-4.3%)	-3 (-0.3%)	-49 (-4.3%)	-2 (-0.2%)
	BN	-57 (-8.6%)	-3 (-0.4%)	-56 (-8.4%)	-2 (-0.3%)
	D	-64 (-14.3%)	0 (0%)	-62 (-13.8%)	2 (0.6%)
	C	-23 (-6.8%)	1 (0.3%)	-23 (-7.1%)	0 (0%)
	All	19 (2%)	-1 (-0.1%)	19 (2.1%)	0 (0%)
Jul	W	6 (0.5%)	0 (0%)	6 (0.5%)	0 (0%)
	AN	-33 (-6.8%)	0 (0%)	-33 (-6.8%)	0 (0%)
	BN	-23 (-5.1%)	0 (0%)	-23 (-5.1%)	0 (0%)
	D	-42 (-10.6%)	1 (0.2%)	-42 (-10.7%)	0 (0.1%)
	C	-20 (-5.9%)	-1 (-0.4%)	-18 (-5.5%)	0 (0%)
	All	-19 (-3.1%)	0 (0%)	-19 (-3.1%)	0 (0%)

Alternative 4A_ELT: Upstream—Stanislaus River at Confluence with the San Joaquin River					
Month	**Water Year Type[b]**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	-86 (-9.3%)	0 (0%)	-86 (-9.3%)	0 (0%)
	AN	-21 (-4.4%)	0 (0%)	-21 (-4.4%)	0 (0%)
	BN	-1 (-0.2%)	0 (0%)	-1 (-0.2%)	0 (0%)
	D	-3 (-0.7%)	0 (0%)	-3 (-0.7%)	0 (0%)
	C	0 (0.1%)	0 (0%)	0 (0%)	0 (0%)
	All	-30 (-5.3%)	0 (0%)	-30 (-5.3%)	0 (0%)
Sep	W	-75 (-7.2%)	0 (0%)	-75 (-7.3%)	-1 (-0.1%)
	AN	-25 (-5%)	0 (0%)	-25 (-5%)	0 (0%)
	BN	-4 (-0.9%)	0 (0%)	-4 (-0.9%)	0 (0%)
	D	-3 (-0.7%)	0 (0%)	-3 (-0.7%)	0 (0%)
	C	3 (1%)	0 (0%)	3 (1%)	0 (0%)
	All	-27 (-4.6%)	0 (0%)	-27 (-4.6%)	0 (0%)
Oct	W	-28 (-3.2%)	0 (0%)	-28 (-3.2%)	0 (0%)
	AN	-29 (-3.3%)	0 (0%)	-29 (-3.3%)	0 (0%)
	BN	-52 (-5.7%)	0 (0%)	-52 (-5.7%)	0 (0%)
	D	-4 (-0.4%)	0 (0%)	-4 (-0.4%)	0 (0%)
	C	-19 (-2.8%)	0 (0%)	-19 (-2.8%)	0 (0%)
	All	-27 (-3.1%)	0 (0%)	-27 (-3.1%)	0 (0%)
Nov	W	1 (0.2%)	0 (0%)	1 (0.2%)	0 (0%)
	AN	11 (1.9%)	0 (0%)	11 (1.9%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	-8 (-2.2%)	0 (0%)	-8 (-2.2%)	0 (0%)
	C	-14 (-4.2%)	0 (0%)	-14 (-4.2%)	0 (0%)
	All	-1 (-0.3%)	0 (0%)	-1 (-0.3%)	0 (0%)
Dec	W	14 (2.7%)	0 (0%)	14 (2.7%)	0 (0%)
	AN	44 (6.2%)	0 (0%)	44 (6.2%)	0 (0%)
	BN	0 (0%)	0 (0%)	0 (0%)	0 (0%)
	D	-8 (-2.4%)	0 (0%)	-8 (-2.4%)	0 (0%)
	C	-14 (-4.7%)	0 (0%)	-14 (-4.7%)	0 (0%)
	All	9 (2%)	0 (0%)	9 (2%)	0 (0%)

[a] Red boxes indicate that flows under the alternative are more than 5% more negative than flows under the baseline; green boxes indicate that flows under the alternative are more than 5% more positive than flows under the baseline.

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

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.1.2 In Delta

OMR Flow (Old and Middle Rivers)

Table F.1-25. Mean Monthly Flows (cfs) for Model Scenarios in the Old and Middle Rivers, Year-Round

Alternative 4A_ELT: In Delta—OMR Flow (Old and Middle Rivers)					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	-1,820	-1,771	2,164	2,042
	AN	-3,553	-3,483	-1,486	-1,407
	BN	-4,240	-4,309	-2,326	-2,401
	D	-4,664	-4,713	-2,775	-2,959
	C	-4,130	-3,634	-2,862	-2,895
	All	-3,449	-3,373	-957	-1,042
Feb	W	-2,365	-2,124	4,173	3,697
	AN	-3,274	-3,017	-52	-22
	BN	-3,437	-3,142	-1,894	-2,006
	D	-3,986	-3,924	-3,175	-3,151
	C	-3,191	-3,372	-3,082	-3,132
	All	-3,158	-3,006	-156	-323
Mar	W	-1,600	-1,691	5,090	4,494
	AN	-4,251	-4,080	607	608
	BN	-4,147	-3,933	-2,030	-2,075
	D	-2,852	-2,826	-2,503	-2,502
	C	-2,010	-1,817	-1,765	-1,866
	All	-2,758	-2,691	548	337
Apr	W	2,431	2,408	2,231	2,241
	AN	1,058	909	-75	-82
	BN	677	497	-442	-442
	D	-268	-617	-1,394	-1,411
	C	-950	-896	-1,276	-1,239
	All	843	715	128	132
May	W	1,651	1,685	2,235	2,246
	AN	509	549	-195	-326
	BN	272	65	-731	-611
	D	-647	-961	-1,368	-1,404
	C	-1,019	-1,043	-1,021	-1,034
	All	353	262	106	101
Jun	W	-4,164	-4,271	-734	-807
	AN	-4,761	-4,624	-2,340	-2,340
	BN	-4,154	-3,577	-3,237	-3,000
	D	-3,301	-3,047	-2,598	-2,556
	C	-2,250	-2,195	-1,729	-1,713
	All	-3,780	-3,632	-1,951	-1,922
Jul	W	-8,959	-9,077	-6,659	-6,949
	AN	-9,919	-9,036	-7,209	-7,337
	BN	-10,853	-10,426	-7,855	-8,553
	D	-10,891	-9,996	-8,177	-7,111
	C	-8,058	-6,389	-3,442	-3,268
	All	-9,715	-9,110	-6,806	-6,777

Alternative 4A_ELT: In Delta—OMR Flow (Old and Middle Rivers)					
				A4A_ELT	
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	H1_ELT	H2_ELT
Aug	W	-10,062	-10,552	-5,055	-5,539
	AN	-10,348	-10,838	-7,168	-7,105
	BN	-10,044	-9,442	-6,954	-7,041
	D	-10,122	-8,071	-5,017	-4,764
	C	-4,384	-3,725	-3,599	-3,810
	All	-9,283	-8,861	-5,467	-5,602
Sep	W	-9,317	-8,437	-3,752	719
	AN	-9,163	-8,986	-5,415	-370
	BN	-8,575	-8,539	-4,688	-4,331
	D	-8,081	-6,148	-4,149	-4,049
	C	-4,807	-4,276	-3,854	-3,860
	All	-8,236	-7,423	-4,257	-2,019
Oct	W	-8,347	-5,847	-2,019	-1,508
	AN	-7,643	-4,587	-2,150	-1,708
	BN	-7,804	-5,137	-2,224	-1,612
	D	-6,961	-5,057	-2,118	-1,770
	C	-6,440	-5,025	-2,176	-2,104
	All	-7,568	-5,248	-2,118	-1,700
Nov	W	-8,902	-7,002	-3,750	-1,187
	AN	-7,264	-6,221	-4,211	-2,624
	BN	-7,997	-6,175	-4,586	-2,464
	D	-7,136	-5,277	-4,388	-2,436
	C	-5,293	-4,283	-4,121	-2,919
	All	-7,592	-5,970	-4,155	-2,143
Dec	W	-5,542	-5,428	-2,588	-2,833
	AN	-6,987	-7,362	-5,548	-5,631
	BN	-7,304	-7,231	-6,008	-6,078
	D	-7,214	-7,517	-6,313	-6,149
	C	-6,166	-5,334	-5,725	-5,438
	All	-6,513	-6,464	-4,882	-4,906

cfs = cubic feet per second
Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

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

Alternative 4A_ELT: In Delta—OMR Flow (Old and Middle Rivers)					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	3,983 (218.9%)	3,935 (222.2%)	3,862 (212.2%)	3,813 (215.3%)
	AN	2,067 (58.2%)	1,997 (57.3%)	2,145 (60.4%)	2,076 (59.6%)
	BN	1,914 (45.1%)	1,983 (46%)	1,838 (43.4%)	1,907 (44.3%)
	D	1,888 (40.5%)	1,938 (41.1%)	1,705 (36.6%)	1,755 (37.2%)
	C	1,267 (30.7%)	772 (21.2%)	1,235 (29.9%)	739 (20.3%)
	All	2,492 (72.3%)	2,417 (71.6%)	2,407 (69.8%)	2,332 (69.1%)
Feb	W	6,538 (276.4%)	6,297 (296.4%)	6,062 (256.3%)	5,822 (274%)
	AN	3,223 (98.4%)	2,966 (98.3%)	3,252 (99.3%)	2,995 (99.3%)
	BN	1,543 (44.9%)	1,248 (39.7%)	1,431 (41.6%)	1,136 (36.2%)
	D	810 (20.3%)	749 (19.1%)	835 (21%)	773 (19.7%)
	C	109 (3.4%)	290 (8.6%)	59 (1.9%)	240 (7.1%)
	All	3,002 (95.1%)	2,851 (94.8%)	2,834 (89.8%)	2,683 (89.2%)
Mar	W	6,690 (418.1%)	6,781 (401.1%)	6,094 (380.8%)	6,185 (365.8%)
	AN	4,858 (114.3%)	4,687 (114.9%)	4,859 (114.3%)	4,688 (114.9%)
	BN	2,117 (51.1%)	1,903 (48.4%)	2,071 (49.9%)	1,857 (47.2%)
	D	349 (12.2%)	323 (11.4%)	350 (12.3%)	324 (11.5%)
	C	245 (12.2%)	52 (2.8%)	145 (7.2%)	-49 (-2.7%)
	All	3,306 (119.9%)	3,239 (120.4%)	3,095 (112.2%)	3,028 (112.5%)
Apr	W	-200 (-8.2%)	-177 (-7.4%)	-190 (-7.8%)	-167 (-6.9%)
	AN	-1,133 (-107.1%)	-985 (-108.3%)	-1,140 (-107.7%)	-991 (-109%)
	BN	-1,119 (-165.3%)	-939 (-188.9%)	-1,119 (-165.3%)	-939 (-188.9%)
	D	-1,126 (-420.1%)	-776 (-125.7%)	-1,143 (-426.6%)	-794 (-128.6%)
	C	-325 (-34.2%)	-380 (-42.5%)	-289 (-30.4%)	-344 (-38.4%)
	All	-715 (-84.8%)	-587 (-82%)	-711 (-84.3%)	-583 (-81.5%)
May	W	584 (35.4%)	550 (32.6%)	595 (36%)	561 (33.3%)
	AN	-705 (-138.3%)	-744 (-135.6%)	-835 (-164%)	-875 (-159.4%)
	BN	-1,003 (-369%)	-796 (-1,233%)	-883 (-324.9%)	-676 (-1,047.2%)
	D	-721 (-111.4%)	-406 (-42.2%)	-757 (-117%)	-442 (-46%)
	C	-2 (-0.2%)	23 (2.2%)	-14 (-1.4%)	10 (1%)
	All	-248 (-70.1%)	-156 (-59.7%)	-253 (-71.5%)	-161 (-61.6%)
Jun	W	3,430 (82.4%)	3,537 (82.8%)	3,357 (80.6%)	3,464 (81.1%)
	AN	2,421 (50.8%)	2,284 (49.4%)	2,421 (50.8%)	2,284 (49.4%)
	BN	918 (22.1%)	340 (9.5%)	1,154 (27.8%)	577 (16.1%)
	D	703 (21.3%)	449 (14.7%)	744 (22.6%)	491 (16.1%)
	C	521 (23.2%)	466 (21.2%)	537 (23.9%)	482 (22%)
	All	1,829 (48.4%)	1,681 (46.3%)	1,858 (49.1%)	1,709 (47.1%)
Jul	W	2,300 (25.7%)	2,418 (26.6%)	2,009 (22.4%)	2,128 (23.4%)
	AN	2,710 (27.3%)	1,827 (20.2%)	2,582 (26%)	1,699 (18.8%)
	BN	2,997 (27.6%)	2,570 (24.7%)	2,300 (21.2%)	1,873 (18%)
	D	2,714 (24.9%)	1,819 (18.2%)	3,780 (34.7%)	2,885 (28.9%)
	C	4,616 (57.3%)	2,947 (46.1%)	4,789 (59.4%)	3,120 (48.8%)
	All	2,909 (29.9%)	2,303 (25.3%)	2,938 (30.2%)	2,333 (25.6%)

Alternative 4A_ELT: In Delta—OMR Flow (Old and Middle Rivers)					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	5,008 (49.8%)	5,497 (52.1%)	4,523 (44.9%)	5,012 (47.5%)
	AN	3,181 (30.7%)	3,670 (33.9%)	3,243 (31.3%)	3,733 (34.4%)
	BN	3,091 (30.8%)	2,489 (26.4%)	3,004 (29.9%)	2,402 (25.4%)
	D	5,105 (50.4%)	3,054 (37.8%)	5,358 (52.9%)	3,307 (41%)
	C	786 (17.9%)	126 (3.4%)	575 (13.1%)	-85 (-2.3%)
	All	3,816 (41.1%)	3,394 (38.3%)	3,682 (39.7%)	3,259 (36.8%)
Sep	W	5,565 (59.7%)	4,685 (55.5%)	10,036 (107.7%)	9,157 (108.5%)
	AN	3,748 (40.9%)	3,570 (39.7%)	8,793 (96%)	8,616 (95.9%)
	BN	3,887 (45.3%)	3,851 (45.1%)	4,244 (49.5%)	4,208 (49.3%)
	D	3,933 (48.7%)	1,999 (32.5%)	4,032 (49.9%)	2,098 (34.1%)
	C	952 (19.8%)	421 (9.9%)	947 (19.7%)	416 (9.7%)
	All	3,979 (48.3%)	3,166 (42.7%)	6,217 (75.5%)	5,404 (72.8%)
Oct	W	6,328 (75.8%)	3,828 (65.5%)	6,839 (81.9%)	4,339 (74.2%)
	AN	5,493 (71.9%)	2,438 (53.1%)	5,935 (77.6%)	2,879 (62.8%)
	BN	5,580 (71.5%)	2,913 (56.7%)	6,192 (79.3%)	3,524 (68.6%)
	D	4,842 (69.6%)	2,939 (58.1%)	5,191 (74.6%)	3,287 (65%)
	C	4,264 (66.2%)	2,848 (56.7%)	4,336 (67.3%)	2,920 (58.1%)
	All	5,450 (72%)	3,130 (59.6%)	5,868 (77.5%)	3,548 (67.6%)
Nov	W	5,152 (57.9%)	3,252 (46.4%)	7,715 (86.7%)	5,815 (83.1%)
	AN	3,053 (42%)	2,011 (32.3%)	4,640 (63.9%)	3,597 (57.8%)
	BN	3,411 (42.7%)	1,589 (25.7%)	5,533 (69.2%)	3,711 (60.1%)
	D	2,748 (38.5%)	889 (16.8%)	4,700 (65.9%)	2,840 (53.8%)
	C	1,172 (22.1%)	162 (3.8%)	2,374 (44.9%)	1,364 (31.8%)
	All	3,438 (45.3%)	1,815 (30.4%)	5,449 (71.8%)	3,827 (64.1%)
Dec	W	2,954 (53.3%)	2,840 (52.3%)	2,709 (48.9%)	2,595 (47.8%)
	AN	1,440 (20.6%)	1,814 (24.6%)	1,357 (19.4%)	1,731 (23.5%)
	BN	1,296 (17.7%)	1,223 (16.9%)	1,226 (16.8%)	1,153 (16%)
	D	901 (12.5%)	1,204 (16%)	1,064 (14.8%)	1,368 (18.2%)
	C	441 (7.2%)	-391 (-7.3%)	729 (11.8%)	-104 (-1.9%)
	All	1,631 (25%)	1,582 (24.5%)	1,607 (24.7%)	1,558 (24.1%)

[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.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Sacramento River Downstream of North Delta Diversion Facility

Table F.1-27. Mean Monthly Flows (cfs) for Model Scenarios for the Sacramento River Downstream of the North Delta Diversion Facility, Year-Round

Alternative 4A_ELT: In Delta—Sacramento River Downstream of North Delta Diversion Facility					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	50,961	51,963	43,547	43,598
	AN	39,863	38,966	32,796	33,201
	BN	23,781	23,111	18,820	19,457
	D	17,444	17,420	15,321	15,020
	C	14,281	14,516	14,625	13,525
	All	31,971	32,073	27,324	27,281
Feb	W	57,314	58,879	48,720	48,839
	AN	45,676	46,911	40,084	39,735
	BN	31,934	31,705	25,546	25,964
	D	21,202	21,018	17,334	17,362
	C	14,708	14,422	13,077	13,351
	All	37,116	37,671	31,394	31,498
Mar	W	49,416	50,198	39,838	41,317
	AN	44,495	45,105	35,450	36,269
	BN	24,489	23,010	16,892	18,972
	D	20,656	20,284	16,106	16,798
	C	13,245	13,045	11,872	11,867
	All	32,834	32,807	25,976	27,071
Apr	W	37,809	37,883	28,690	32,379
	AN	25,979	25,393	17,943	22,721
	BN	17,752	17,248	14,117	19,504
	D	12,990	12,836	11,302	11,764
	C	10,229	10,033	9,732	9,502
	All	23,169	22,959	18,038	20,894
May	W	31,948	29,061	22,233	26,618
	AN	21,021	19,707	16,014	20,000
	BN	14,227	13,003	11,754	14,428
	D	10,959	10,606	10,187	10,184
	C	7,749	8,136	7,418	7,364
	All	19,175	17,837	14,722	17,143
Jun	W	23,900	19,758	15,357	14,215
	AN	16,309	15,163	13,027	12,255
	BN	13,576	13,131	12,968	11,120
	D	12,222	12,538	12,296	11,441
	C	9,884	9,829	9,236	8,986
	All	16,412	14,916	13,041	12,026
Jul	W	19,876	20,330	16,523	14,402
	AN	21,574	22,186	18,758	17,491
	BN	20,953	20,953	17,452	16,796
	D	19,272	18,670	16,640	14,756
	C	15,397	14,149	10,367	9,730
	All	19,520	19,439	16,134	14,657

Alternative 4A_ELT: In Delta—Sacramento River Downstream of North Delta Diversion Facility					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	15,816	15,882	9,826	9,584
	AN	15,877	16,585	12,729	11,255
	BN	15,643	15,243	12,481	12,282
	D	16,965	14,504	10,298	11,775
	C	10,095	9,298	8,459	8,901
	All	15,210	14,610	10,608	10,670
Sep	W	18,254	26,844	8,478	8,419
	AN	13,198	21,227	9,619	7,739
	BN	12,427	12,783	8,176	7,672
	D	12,155	9,748	7,826	7,704
	C	8,485	7,687	7,467	7,843
	All	13,751	17,065	8,302	7,951
Oct	W	13,505	12,783	9,163	9,145
	AN	11,118	10,426	7,989	8,293
	BN	11,557	10,582	8,356	8,412
	D	10,279	10,230	8,262	8,216
	C	10,073	9,389	8,115	8,501
	All	11,613	11,005	8,502	8,597
Nov	W	19,447	20,479	13,963	14,232
	AN	15,309	16,862	10,921	11,166
	BN	12,574	13,546	8,693	8,597
	D	12,868	12,499	9,172	9,393
	C	9,633	9,449	7,917	7,885
	All	14,788	15,400	10,682	10,830
Dec	W	39,708	39,335	34,129	34,736
	AN	21,663	22,698	20,338	20,048
	BN	16,678	17,171	15,523	15,857
	D	15,442	15,384	14,308	13,789
	C	11,816	10,840	10,976	10,715
	All	23,727	23,689	21,195	21,250

cfs = cubic feet per second
Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

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

Alternative 4A_ELT: In Delta—Sacramento River Downstream of North Delta Diversion Facility					
Month	Water Year Type	EXISTING CONDITIONS vs. H1_ELT	NAA_ELT vs. H1_ELT	EXISTING CONDITIONS vs. H2_ELT	NAA_ELT vs. H2_ELT
Jan	W	-7,414 (-14.5%)	-8,416 (-16.2%)	-7,363 (-14.4%)	-8,365 (-16.1%)
	AN	-7,067 (-17.7%)	-6,170 (-15.8%)	-6,662 (-16.7%)	-5,765 (-14.8%)
	BN	-4,961 (-20.9%)	-4,291 (-18.6%)	-4,324 (-18.2%)	-3,654 (-15.8%)
	D	-2,123 (-12.2%)	-2,099 (-12.1%)	-2,423 (-13.9%)	-2,400 (-13.8%)
	C	344 (2.4%)	109 (0.8%)	-756 (-5.3%)	-991 (-6.8%)
	All	-4,647 (-14.5%)	-4,749 (-14.8%)	-4,690 (-14.7%)	-4,792 (-14.9%)
Feb	W	-8,594 (-15%)	-10,159 (-17.3%)	-8,475 (-14.8%)	-10,040 (-17.1%)
	AN	-5,592 (-12.2%)	-6,827 (-14.6%)	-5,941 (-13%)	-7,176 (-15.3%)
	BN	-6,388 (-20%)	-6,159 (-19.4%)	-5,970 (-18.7%)	-5,741 (-18.1%)
	D	-3,868 (-18.2%)	-3,684 (-17.5%)	-3,840 (-18.1%)	-3,656 (-17.4%)
	C	-1,631 (-11.1%)	-1,345 (-9.3%)	-1,357 (-9.2%)	-1,071 (-7.4%)
	All	-5,722 (-15.4%)	-6,277 (-16.7%)	-5,617 (-15.1%)	-6,173 (-16.4%)
Mar	W	-9,578 (-19.4%)	-10,361 (-20.6%)	-8,099 (-16.4%)	-8,882 (-17.7%)
	AN	-9,046 (-20.3%)	-9,655 (-21.4%)	-8,226 (-18.5%)	-8,835 (-19.6%)
	BN	-7,597 (-31%)	-6,118 (-26.6%)	-5,517 (-22.5%)	-4,038 (-17.5%)
	D	-4,551 (-22%)	-4,178 (-20.6%)	-3,859 (-18.7%)	-3,486 (-17.2%)
	C	-1,373 (-10.4%)	-1,173 (-9%)	-1,378 (-10.4%)	-1,178 (-9%)
	All	-6,858 (-20.9%)	-6,831 (-20.8%)	-5,762 (-17.6%)	-5,736 (-17.5%)
Apr	W	-9,118 (-24.1%)	-9,193 (-24.3%)	-5,430 (-14.4%)	-5,505 (-14.5%)
	AN	-8,036 (-30.9%)	-7,450 (-29.3%)	-3,258 (-12.5%)	-2,672 (-10.5%)
	BN	-3,635 (-20.5%)	-3,131 (-18.2%)	1,753 (9.9%)	2,256 (13.1%)
	D	-1,688 (-13%)	-1,534 (-11.9%)	-1,227 (-9.4%)	-1,072 (-8.4%)
	C	-497 (-4.9%)	-301 (-3%)	-727 (-7.1%)	-531 (-5.3%)
	All	-5,131 (-22.1%)	-4,921 (-21.4%)	-2,275 (-9.8%)	-2,064 (-9%)
May	W	-9,715 (-30.4%)	-6,828 (-23.5%)	-5,330 (-16.7%)	-2,443 (-8.4%)
	AN	-5,007 (-23.8%)	-3,692 (-18.7%)	-1,021 (-4.9%)	293 (1.5%)
	BN	-2,473 (-17.4%)	-1,249 (-9.6%)	201 (1.4%)	1,426 (11%)
	D	-772 (-7%)	-419 (-3.9%)	-775 (-7.1%)	-421 (-4%)
	C	-332 (-4.3%)	-719 (-8.8%)	-385 (-5%)	-772 (-9.5%)
	All	-4,453 (-23.2%)	-3,116 (-17.5%)	-2,032 (-10.6%)	-694 (-3.9%)
Jun	W	-8,543 (-35.7%)	-4,400 (-22.3%)	-9,685 (-40.5%)	-5,543 (-28.1%)
	AN	-3,282 (-20.1%)	-2,136 (-14.1%)	-4,054 (-24.9%)	-2,909 (-19.2%)
	BN	-608 (-4.5%)	-163 (-1.2%)	-2,455 (-18.1%)	-2,010 (-15.3%)
	D	74 (0.6%)	-242 (-1.9%)	-782 (-6.4%)	-1,097 (-8.8%)
	C	-648 (-6.6%)	-593 (-6%)	-897 (-9.1%)	-842 (-8.6%)
	All	-3,371 (-20.5%)	-1,876 (-12.6%)	-4,386 (-26.7%)	-2,890 (-19.4%)
Jul	W	-3,353 (-16.9%)	-3,807 (-18.7%)	-5,474 (-27.5%)	-5,928 (-29.2%)
	AN	-2,815 (-13.1%)	-3,427 (-15.4%)	-4,082 (-18.9%)	-4,694 (-21.2%)
	BN	-3,501 (-16.7%)	-3,500 (-16.7%)	-4,157 (-19.8%)	-4,157 (-19.8%)
	D	-2,632 (-13.7%)	-2,029 (-10.9%)	-4,516 (-23.4%)	-3,914 (-21%)
	C	-5,030 (-32.7%)	-3,782 (-26.7%)	-5,667 (-36.8%)	-4,419 (-31.2%)
	All	-3,386 (-17.3%)	-3,305 (-17%)	-4,863 (-24.9%)	-4,782 (-24.6%)

Alternative 4A_ELT: In Delta—Sacramento River Downstream of North Delta Diversion Facility					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	-5,990 (-37.9%)	-6,056 (-38.1%)	-6,232 (-39.4%)	-6,298 (-39.7%)
	AN	-3,148 (-19.8%)	-3,856 (-23.2%)	-4,622 (-29.1%)	-5,330 (-32.1%)
	BN	-3,162 (-20.2%)	-2,763 (-18.1%)	-3,361 (-21.5%)	-2,962 (-19.4%)
	D	-6,667 (-39.3%)	-4,206 (-29%)	-5,190 (-30.6%)	-2,728 (-18.8%)
	C	-1,636 (-16.2%)	-839 (-9%)	-1,194 (-11.8%)	-397 (-4.3%)
	All	-4,603 (-30.3%)	-4,002 (-27.4%)	-4,540 (-29.8%)	-3,939 (-27%)
Sep	W	-9,776 (-53.6%)	-18,366 (-68.4%)	-9,835 (-53.9%)	-18,425 (-68.6%)
	AN	-3,579 (-27.1%)	-11,608 (-54.7%)	-5,459 (-41.4%)	-13,487 (-63.5%)
	BN	-4,251 (-34.2%)	-4,607 (-36%)	-4,755 (-38.3%)	-5,111 (-40%)
	D	-4,329 (-35.6%)	-1,922 (-19.7%)	-4,452 (-36.6%)	-2,044 (-21%)
	C	-1,018 (-12%)	-220 (-2.9%)	-641 (-7.6%)	156 (2%)
	All	-5,449 (-39.6%)	-8,763 (-51.3%)	-5,800 (-42.2%)	-9,114 (-53.4%)
Oct	W	-4,342 (-32.2%)	-3,620 (-28.3%)	-4,360 (-32.3%)	-3,638 (-28.5%)
	AN	-3,129 (-28.1%)	-2,438 (-23.4%)	-2,825 (-25.4%)	-2,133 (-20.5%)
	BN	-3,201 (-27.7%)	-2,226 (-21%)	-3,146 (-27.2%)	-2,170 (-20.5%)
	D	-2,017 (-19.6%)	-1,967 (-19.2%)	-2,063 (-20.1%)	-2,013 (-19.7%)
	C	-1,958 (-19.4%)	-1,274 (-13.6%)	-1,572 (-15.6%)	-888 (-9.5%)
	All	-3,111 (-26.8%)	-2,503 (-22.7%)	-3,016 (-26%)	-2,408 (-21.9%)
Nov	W	-5,484 (-28.2%)	-6,516 (-31.8%)	-5,215 (-26.8%)	-6,247 (-30.5%)
	AN	-4,387 (-28.7%)	-5,941 (-35.2%)	-4,143 (-27.1%)	-5,696 (-33.8%)
	BN	-3,881 (-30.9%)	-4,853 (-35.8%)	-3,977 (-31.6%)	-4,949 (-36.5%)
	D	-3,696 (-28.7%)	-3,327 (-26.6%)	-3,475 (-27%)	-3,105 (-24.8%)
	C	-1,715 (-17.8%)	-1,532 (-16.2%)	-1,748 (-18.1%)	-1,564 (-16.5%)
	All	-4,106 (-27.8%)	-4,718 (-30.6%)	-3,957 (-26.8%)	-4,570 (-29.7%)
Dec	W	-5,579 (-14%)	-5,206 (-13.2%)	-4,971 (-12.5%)	-4,599 (-11.7%)
	AN	-1,325 (-6.1%)	-2,360 (-10.4%)	-1,615 (-7.5%)	-2,650 (-11.7%)
	BN	-1,155 (-6.9%)	-1,648 (-9.6%)	-821 (-4.9%)	-1,314 (-7.7%)
	D	-1,134 (-7.3%)	-1,076 (-7%)	-1,653 (-10.7%)	-1,595 (-10.4%)
	C	-840 (-7.1%)	136 (1.3%)	-1,102 (-9.3%)	-125 (-1.2%)
	All	-2,532 (-10.7%)	-2,494 (-10.5%)	-2,477 (-10.4%)	-2,439 (-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.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Sacramento River at Rio Vista

Table F.1-29. Mean Monthly Flows (cfs) for Model Scenarios in the Sacramento River at Rio Vista, Year-Round

Alternative 4A_ELT: In Delta—Sacramento River at Rio Vista					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	71,111	75,510	71,191	69,760
	AN	41,963	41,416	38,135	37,307
	BN	20,943	20,388	18,490	18,308
	D	14,895	15,032	13,843	13,636
	C	11,853	12,114	12,647	11,016
	All	37,268	38,556	36,200	35,310
Feb	W	80,958	87,232	80,556	80,514
	AN	52,542	53,615	52,182	50,586
	BN	30,159	30,231	27,287	26,458
	D	19,319	19,318	17,002	17,032
	C	12,247	12,074	11,329	11,488
	All	44,541	46,674	43,227	42,869
Mar	W	63,763	66,275	59,431	59,080
	AN	46,751	47,974	42,387	41,897
	BN	20,980	19,629	15,951	15,589
	D	17,656	17,341	14,787	14,771
	C	10,710	10,603	9,983	10,067
	All	36,084	36,744	32,477	32,241
Apr	W	38,214	38,692	33,029	32,848
	AN	22,726	22,234	17,243	17,186
	BN	14,652	14,295	12,104	11,845
	D	10,331	10,216	9,089	9,081
	C	7,665	7,520	7,369	7,283
	All	21,333	21,306	18,136	18,012
May	W	26,933	24,220	18,395	18,383
	AN	17,008	15,857	12,738	12,926
	BN	10,924	9,862	8,866	8,714
	D	8,135	7,840	7,566	7,525
	C	5,305	5,656	5,134	5,146
	All	15,456	14,232	11,623	11,613
Jun	W	16,557	12,993	8,971	8,934
	AN	9,887	8,634	6,671	6,665
	BN	7,001	6,677	6,623	6,652
	D	6,020	6,250	6,136	6,006
	C	4,333	4,304	3,970	3,939
	All	9,847	8,525	6,879	6,839
Jul	W	11,125	11,207	8,704	8,924
	AN	12,128	12,544	10,098	10,235
	BN	11,686	11,667	9,188	9,779
	D	10,523	10,105	8,978	8,156
	C	7,736	6,866	4,331	4,103
	All	10,740	10,604	8,411	8,388

Alternative 4A_ELT: In Delta—Sacramento River at Rio Vista					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	8,507	8,527	4,232	4,595
	AN	8,538	9,013	6,264	6,205
	BN	8,371	8,062	6,133	6,146
	D	9,264	7,525	4,566	4,374
	C	4,390	3,823	3,465	3,710
	All	8,052	7,610	4,815	4,918
Sep	W	10,767	20,717	3,529	10,406
	AN	6,788	12,961	4,335	6,275
	BN	6,283	6,538	3,348	3,513
	D	6,116	4,432	3,080	3,014
	C	3,588	3,215	3,021	3,020
	All	7,348	11,025	3,443	5,921
Oct	W	8,718	7,867	5,103	4,943
	AN	6,183	5,518	3,652	3,656
	BN	6,258	5,416	3,861	3,918
	D	5,312	5,221	3,789	3,801
	C	5,215	4,684	3,918	3,805
	All	6,667	6,058	4,217	4,162
Nov	W	15,829	17,184	11,391	12,318
	AN	11,333	13,102	7,556	8,954
	BN	8,184	9,448	5,104	5,769
	D	8,733	8,539	5,730	5,930
	C	5,474	5,586	4,361	4,577
	All	10,793	11,671	7,485	8,172
Dec	W	43,367	44,292	43,015	40,630
	AN	19,040	20,375	18,961	18,884
	BN	13,987	15,099	13,798	13,882
	D	11,999	11,868	11,375	11,126
	C	8,131	7,341	7,634	7,372
	All	22,749	23,283	22,384	21,538

cfs = cubic feet per second
Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

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

Alternative 4A_ELT: In Delta—Sacramento River at Rio Vista					
Month	Water Year Type	EXISTING CONDITIONS vs. H1_ELT	NAA_ELT vs. H1_ELT	EXISTING CONDITIONS vs. H2_ELT	NAA_ELT vs. H2_ELT
Jan	W	80 (0.1%)	-4,319 (-5.7%)	-1,351 (-1.9%)	-5,751 (-7.6%)
	AN	-3,828 (-9.1%)	-3,281 (-7.9%)	-4,656 (-11.1%)	-4,109 (-9.9%)
	BN	-2,452 (-11.7%)	-1,897 (-9.3%)	-2,635 (-12.6%)	-2,080 (-10.2%)
	D	-1,052 (-7.1%)	-1,189 (-7.9%)	-1,259 (-8.5%)	-1,396 (-9.3%)
	C	794 (6.7%)	533 (4.4%)	-837 (-7.1%)	-1,098 (-9.1%)
	All	-1,068 (-2.9%)	-2,356 (-6.1%)	-1,959 (-5.3%)	-3,247 (-8.4%)
Feb	W	-402 (-0.5%)	-6,676 (-7.7%)	-444 (-0.5%)	-6,718 (-7.7%)
	AN	-360 (-0.7%)	-1,433 (-2.7%)	-1,957 (-3.7%)	-3,029 (-5.6%)
	BN	-2,871 (-9.5%)	-2,944 (-9.7%)	-3,701 (-12.3%)	-3,773 (-12.5%)
	D	-2,317 (-12%)	-2,316 (-12%)	-2,287 (-11.8%)	-2,286 (-11.8%)
	C	-918 (-7.5%)	-745 (-6.2%)	-759 (-6.2%)	-586 (-4.9%)
	All	-1,313 (-2.9%)	-3,447 (-7.4%)	-1,672 (-3.8%)	-3,805 (-8.2%)
Mar	W	-4,332 (-6.8%)	-6,844 (-10.3%)	-4,683 (-7.3%)	-7,195 (-10.9%)
	AN	-4,363 (-9.3%)	-5,586 (-11.6%)	-4,854 (-10.4%)	-6,077 (-12.7%)
	BN	-5,029 (-24%)	-3,678 (-18.7%)	-5,390 (-25.7%)	-4,039 (-20.6%)
	D	-2,869 (-16.3%)	-2,554 (-14.7%)	-2,885 (-16.3%)	-2,570 (-14.8%)
	C	-727 (-6.8%)	-620 (-5.8%)	-644 (-6%)	-536 (-5.1%)
	All	-3,607 (-10%)	-4,267 (-11.6%)	-3,843 (-10.7%)	-4,503 (-12.3%)
Apr	W	-5,184 (-13.6%)	-5,663 (-14.6%)	-5,365 (-14%)	-5,844 (-15.1%)
	AN	-5,484 (-24.1%)	-4,992 (-22.4%)	-5,540 (-24.4%)	-5,048 (-22.7%)
	BN	-2,548 (-17.4%)	-2,191 (-15.3%)	-2,808 (-19.2%)	-2,450 (-17.1%)
	D	-1,242 (-12%)	-1,127 (-11%)	-1,250 (-12.1%)	-1,134 (-11.1%)
	C	-296 (-3.9%)	-151 (-2%)	-382 (-5%)	-237 (-3.2%)
	All	-3,197 (-15%)	-3,170 (-14.9%)	-3,322 (-15.6%)	-3,294 (-15.5%)
May	W	-8,537 (-31.7%)	-5,824 (-24%)	-8,550 (-31.7%)	-5,837 (-24.1%)
	AN	-4,269 (-25.1%)	-3,118 (-19.7%)	-4,082 (-24%)	-2,931 (-18.5%)
	BN	-2,058 (-18.8%)	-995 (-10.1%)	-2,210 (-20.2%)	-1,148 (-11.6%)
	D	-568 (-7%)	-273 (-3.5%)	-609 (-7.5%)	-314 (-4%)
	C	-171 (-3.2%)	-522 (-9.2%)	-159 (-3%)	-510 (-9%)
	All	-3,833 (-24.8%)	-2,609 (-18.3%)	-3,843 (-24.9%)	-2,619 (-18.4%)
Jun	W	-7,586 (-45.8%)	-4,023 (-31%)	-7,622 (-46%)	-4,059 (-31.2%)
	AN	-3,216 (-32.5%)	-1,963 (-22.7%)	-3,222 (-32.6%)	-1,969 (-22.8%)
	BN	-378 (-5.4%)	-55 (-0.8%)	-349 (-5%)	-26 (-0.4%)
	D	116 (1.9%)	-114 (-1.8%)	-14 (-0.2%)	-244 (-3.9%)
	C	-362 (-8.4%)	-334 (-7.8%)	-393 (-9.1%)	-365 (-8.5%)
	All	-2,968 (-30.1%)	-1,646 (-19.3%)	-3,009 (-30.6%)	-1,687 (-19.8%)
Jul	W	-2,421 (-21.8%)	-2,503 (-22.3%)	-2,201 (-19.8%)	-2,283 (-20.4%)
	AN	-2,030 (-16.7%)	-2,446 (-19.5%)	-1,893 (-15.6%)	-2,309 (-18.4%)
	BN	-2,498 (-21.4%)	-2,479 (-21.2%)	-1,907 (-16.3%)	-1,887 (-16.2%)
	D	-1,545 (-14.7%)	-1,127 (-11.2%)	-2,368 (-22.5%)	-1,950 (-19.3%)
	C	-3,405 (-44%)	-2,536 (-36.9%)	-3,633 (-47%)	-2,764 (-40.2%)
	All	-2,329 (-21.7%)	-2,193 (-20.7%)	-2,352 (-21.9%)	-2,216 (-20.9%)

Alternative 4A_ELT: In Delta—Sacramento River at Rio Vista					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	-4,274 (-50.2%)	-4,295 (-50.4%)	-3,911 (-46%)	-3,932 (-46.1%)
	AN	-2,274 (-26.6%)	-2,749 (-30.5%)	-2,332 (-27.3%)	-2,808 (-31.2%)
	BN	-2,238 (-26.7%)	-1,929 (-23.9%)	-2,225 (-26.6%)	-1,916 (-23.8%)
	D	-4,699 (-50.7%)	-2,959 (-39.3%)	-4,890 (-52.8%)	-3,151 (-41.9%)
	C	-925 (-21.1%)	-358 (-9.4%)	-680 (-15.5%)	-113 (-3%)
	All	-3,237 (-40.2%)	-2,795 (-36.7%)	-3,134 (-38.9%)	-2,693 (-35.4%)
Sep	W	-7,238 (-67.2%)	-17,188 (-83%)	-361 (-3.4%)	-10,311 (-49.8%)
	AN	-2,453 (-36.1%)	-8,626 (-66.6%)	-513 (-7.6%)	-6,686 (-51.6%)
	BN	-2,935 (-46.7%)	-3,189 (-48.8%)	-2,770 (-44.1%)	-3,025 (-46.3%)
	D	-3,036 (-49.6%)	-1,351 (-30.5%)	-3,102 (-50.7%)	-1,417 (-32%)
	C	-567 (-15.8%)	-194 (-6%)	-568 (-15.8%)	-195 (-6.1%)
	All	-3,904 (-53.1%)	-7,582 (-68.8%)	-1,427 (-19.4%)	-5,104 (-46.3%)
Oct	W	-3,615 (-41.5%)	-2,764 (-35.1%)	-3,775 (-43.3%)	-2,923 (-37.2%)
	AN	-2,531 (-40.9%)	-1,866 (-33.8%)	-2,527 (-40.9%)	-1,861 (-33.7%)
	BN	-2,397 (-38.3%)	-1,556 (-28.7%)	-2,340 (-37.4%)	-1,498 (-27.7%)
	D	-1,523 (-28.7%)	-1,432 (-27.4%)	-1,511 (-28.5%)	-1,420 (-27.2%)
	C	-1,297 (-24.9%)	-766 (-16.4%)	-1,410 (-27%)	-880 (-18.8%)
	All	-2,450 (-36.8%)	-1,841 (-30.4%)	-2,504 (-37.6%)	-1,896 (-31.3%)
Nov	W	-4,438 (-28%)	-5,793 (-33.7%)	-3,511 (-22.2%)	-4,866 (-28.3%)
	AN	-3,777 (-33.3%)	-5,547 (-42.3%)	-2,379 (-21%)	-4,148 (-31.7%)
	BN	-3,080 (-37.6%)	-4,344 (-46%)	-2,415 (-29.5%)	-3,679 (-38.9%)
	D	-3,002 (-34.4%)	-2,808 (-32.9%)	-2,803 (-32.1%)	-2,609 (-30.6%)
	C	-1,112 (-20.3%)	-1,225 (-21.9%)	-897 (-16.4%)	-1,010 (-18.1%)
	All	-3,308 (-30.6%)	-4,186 (-35.9%)	-2,620 (-24.3%)	-3,498 (-30%)
Dec	W	-352 (-0.8%)	-1,277 (-2.9%)	-2,736 (-6.3%)	-3,662 (-8.3%)
	AN	-79 (-0.4%)	-1,414 (-6.9%)	-156 (-0.8%)	-1,491 (-7.3%)
	BN	-189 (-1.4%)	-1,301 (-8.6%)	-105 (-0.7%)	-1,217 (-8.1%)
	D	-624 (-5.2%)	-493 (-4.2%)	-873 (-7.3%)	-742 (-6.3%)
	C	-498 (-6.1%)	293 (4%)	-760 (-9.3%)	31 (0.4%)
	All	-365 (-1.6%)	-899 (-3.9%)	-1,211 (-5.3%)	-1,745 (-7.5%)

[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.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Delta Outflow

Table F.1-31. Mean Monthly Flows (cfs) for Model Scenarios at the Delta Outflow, Year-Round

Alternative 4A_ELT: In Delta—Delta Outflow					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	85,900	91,158	90,675	90,240
	AN	49,448	48,959	47,539	48,644
	BN	22,968	22,263	22,647	23,112
	D	14,736	14,754	15,961	15,638
	C	11,343	12,173	13,954	13,022
	All	43,289	44,889	45,120	45,016
Feb	W	96,835	104,533	104,037	104,648
	AN	62,322	64,163	66,071	64,981
	BN	36,766	37,266	35,719	36,359
	D	20,916	20,936	19,536	19,709
	C	12,991	12,553	12,458	12,804
	All	52,594	55,330	54,866	55,098
Mar	W	78,956	81,693	81,609	83,598
	AN	54,171	55,754	55,130	56,450
	BN	24,029	22,522	21,049	25,207
	D	19,880	19,388	17,177	18,977
	C	11,911	11,948	11,610	11,880
	All	43,172	43,911	43,007	44,975
Apr	W	54,394	54,860	49,439	54,321
	AN	31,975	31,183	25,453	31,799
	BN	21,928	21,218	18,727	25,786
	D	14,142	13,450	11,977	13,351
	C	9,053	8,881	8,701	8,762
	All	30,099	29,833	26,501	30,493
May	W	41,040	38,276	33,703	38,429
	AN	24,200	23,131	19,940	24,497
	BN	16,299	14,740	13,668	17,064
	D	10,488	9,737	9,496	10,083
	C	6,000	6,341	6,086	6,167
	All	22,517	21,103	18,913	21,799
Jun	W	23,451	18,080	17,883	17,378
	AN	11,801	10,177	10,834	10,931
	BN	8,004	8,067	8,533	8,025
	D	6,636	7,123	7,561	7,336
	C	5,322	5,345	5,342	5,332
	All	12,765	10,945	11,154	10,870
Jul	W	11,441	10,817	9,555	9,164
	AN	9,431	10,657	9,154	8,591
	BN	7,151	7,613	6,813	6,666
	D	5,024	5,548	5,454	5,423
	C	4,238	4,953	4,379	4,260
	All	7,951	8,232	7,370	7,115

Alternative 4A_ELT: In Delta—Delta Outflow					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	5,341	4,412	4,201	4,198
	AN	4,000	4,009	4,015	4,026
	BN	4,000	4,120	4,001	4,035
	D	4,829	4,617	3,697	4,055
	C	4,077	4,141	3,521	3,458
	All	4,618	4,308	3,929	4,005
Sep	W	9,569	18,873	5,118	5,181
	AN	3,672	11,810	3,743	3,102
	BN	3,445	3,795	3,039	3,070
	D	3,350	3,067	3,000	3,014
	C	3,000	3,000	3,000	3,172
	All	5,334	9,473	3,787	3,746
Oct	W	6,487	8,133	8,568	8,460
	AN	4,021	6,500	6,744	6,886
	BN	4,477	6,206	7,156	7,187
	D	4,157	6,017	7,236	7,203
	C	4,158	4,969	6,747	7,082
	All	4,931	6,638	7,501	7,535
Nov	W	14,232	17,346	13,494	13,957
	AN	9,683	12,410	8,078	8,390
	BN	5,865	8,694	5,088	5,282
	D	6,943	8,375	5,633	6,049
	C	5,045	5,988	4,167	4,297
	All	9,193	11,515	8,176	8,512
Dec	W	48,185	49,759	50,875	51,860
	AN	18,014	19,384	19,616	19,466
	BN	11,950	13,284	13,122	13,967
	D	8,884	8,467	9,123	9,247
	C	5,531	5,505	5,319	5,427
	All	22,714	23,546	24,023	24,501

cfs = cubic feet per second
Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Table F.1-32. Differences[a] (Percent Differences) between Pairs of Model Scenarios at the Delta Outflow, Year-Round

Alternative 4A_ELT: In Delta—Delta Outflow					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	4,775 (5.6%)	-483 (-0.5%)	4,340 (5.1%)	-918 (-1%)
	AN	-1,909 (-3.9%)	-1,420 (-2.9%)	-803 (-1.6%)	-315 (-0.6%)
	BN	-321 (-1.4%)	384 (1.7%)	144 (0.6%)	849 (3.8%)
	D	1,225 (8.3%)	1,207 (8.2%)	902 (6.1%)	884 (6%)
	C	2,611 (23%)	1,781 (14.6%)	1,679 (14.8%)	849 (7%)
	All	1,831 (4.2%)	230 (0.5%)	1,727 (4%)	126 (0.3%)
Feb	W	7,202 (7.4%)	-496 (-0.5%)	7,813 (8.1%)	115 (0.1%)
	AN	3,750 (6%)	1,908 (3%)	2,659 (4.3%)	818 (1.3%)
	BN	-1,047 (-2.8%)	-1,547 (-4.2%)	-407 (-1.1%)	-907 (-2.4%)
	D	-1,379 (-6.6%)	-1,399 (-6.7%)	-1,207 (-5.8%)	-1,227 (-5.9%)
	C	-532 (-4.1%)	-94 (-0.8%)	-187 (-1.4%)	252 (2%)
	All	2,273 (4.3%)	-463 (-0.8%)	2,505 (4.8%)	-231 (-0.4%)
Mar	W	2,653 (3.4%)	-84 (-0.1%)	4,642 (5.9%)	1,906 (2.3%)
	AN	959 (1.8%)	-625 (-1.1%)	2,279 (4.2%)	696 (1.2%)
	BN	-2,980 (-12.4%)	-1,473 (-6.5%)	1,178 (4.9%)	2,685 (11.9%)
	D	-2,703 (-13.6%)	-2,210 (-11.4%)	-904 (-4.5%)	-411 (-2.1%)
	C	-301 (-2.5%)	-338 (-2.8%)	-32 (-0.3%)	-69 (-0.6%)
	All	-164 (-0.4%)	-904 (-2.1%)	1,804 (4.2%)	1,064 (2.4%)
Apr	W	-4,955 (-9.1%)	-5,421 (-9.9%)	-73 (-0.1%)	-539 (-1%)
	AN	-6,523 (-20.4%)	-5,730 (-18.4%)	-177 (-0.6%)	616 (2%)
	BN	-3,201 (-14.6%)	-2,492 (-11.7%)	3,858 (17.6%)	4,567 (21.5%)
	D	-2,164 (-15.3%)	-1,472 (-10.9%)	-791 (-5.6%)	-99 (-0.7%)
	C	-352 (-3.9%)	-180 (-2%)	-291 (-3.2%)	-119 (-1.3%)
	All	-3,599 (-12%)	-3,332 (-11.2%)	393 (1.3%)	660 (2.2%)
May	W	-7,337 (-17.9%)	-4,573 (-11.9%)	-2,611 (-6.4%)	153 (0.4%)
	AN	-4,260 (-17.6%)	-3,191 (-13.8%)	297 (1.2%)	1,366 (5.9%)
	BN	-2,631 (-16.1%)	-1,072 (-7.3%)	765 (4.7%)	2,323 (15.8%)
	D	-992 (-9.5%)	-241 (-2.5%)	-405 (-3.9%)	346 (3.6%)
	C	86 (1.4%)	-256 (-4%)	167 (2.8%)	-174 (-2.7%)
	All	-3,604 (-16%)	-2,190 (-10.4%)	-718 (-3.2%)	695 (3.3%)
Jun	W	-5,568 (-23.7%)	-197 (-1.1%)	-6,073 (-25.9%)	-702 (-3.9%)
	AN	-967 (-8.2%)	657 (6.5%)	-870 (-7.4%)	755 (7.4%)
	BN	529 (6.6%)	466 (5.8%)	21 (0.3%)	-42 (-0.5%)
	D	925 (13.9%)	438 (6.1%)	700 (10.6%)	213 (3%)
	C	20 (0.4%)	-4 (-0.1%)	10 (0.2%)	-14 (-0.3%)
	All	-1,611 (-12.6%)	209 (1.9%)	-1,894 (-14.8%)	-75 (-0.7%)
Jul	W	-1,886 (-16.5%)	-1,262 (-11.7%)	-2,277 (-19.9%)	-1,653 (-15.3%)
	AN	-277 (-2.9%)	-1,503 (-14.1%)	-839 (-8.9%)	-2,066 (-19.4%)
	BN	-338 (-4.7%)	-800 (-10.5%)	-485 (-6.8%)	-946 (-12.4%)
	D	430 (8.6%)	-94 (-1.7%)	400 (8%)	-124 (-2.2%)
	C	142 (3.3%)	-573 (-11.6%)	22 (0.5%)	-693 (-14%)
	All	-581 (-7.3%)	-861 (-10.5%)	-837 (-10.5%)	-1,117 (-13.6%)

Alternative 4A_ELT: In Delta—Delta Outflow					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	-1,140 (-21.3%)	-210 (-4.8%)	-1,143 (-21.4%)	-214 (-4.8%)
	AN	15 (0.4%)	5 (0.1%)	26 (0.7%)	17 (0.4%)
	BN	1 (0%)	-119 (-2.9%)	35 (0.9%)	-85 (-2.1%)
	D	-1,132 (-23.4%)	-921 (-19.9%)	-774 (-16%)	-562 (-12.2%)
	C	-556 (-13.6%)	-620 (-15%)	-619 (-15.2%)	-683 (-16.5%)
	All	-689 (-14.9%)	-379 (-8.8%)	-613 (-13.3%)	-303 (-7%)
Sep	W	-4,451 (-46.5%)	-13,755 (-72.9%)	-4,388 (-45.9%)	-13,692 (-72.5%)
	AN	71 (1.9%)	-8,067 (-68.3%)	-570 (-15.5%)	-8,708 (-73.7%)
	BN	-406 (-11.8%)	-756 (-19.9%)	-375 (-10.9%)	-725 (-19.1%)
	D	-350 (-10.5%)	-67 (-2.2%)	-337 (-10.1%)	-54 (-1.8%)
	C	0 (0%)	0 (0%)	172 (5.7%)	172 (5.7%)
	All	-1,547 (-29%)	-5,686 (-60%)	-1,588 (-29.8%)	-5,726 (-60.5%)
Oct	W	2,081 (32.1%)	435 (5.3%)	1,973 (30.4%)	327 (4%)
	AN	2,723 (67.7%)	244 (3.8%)	2,865 (71.3%)	386 (5.9%)
	BN	2,679 (59.8%)	949 (15.3%)	2,710 (60.5%)	980 (15.8%)
	D	3,079 (74.1%)	1,219 (20.3%)	3,046 (73.3%)	1,186 (19.7%)
	C	2,589 (62.3%)	1,778 (35.8%)	2,924 (70.3%)	2,113 (42.5%)
	All	2,570 (52.1%)	863 (13%)	2,604 (52.8%)	897 (13.5%)
Nov	W	-738 (-5.2%)	-3,852 (-22.2%)	-275 (-1.9%)	-3,389 (-19.5%)
	AN	-1,606 (-16.6%)	-4,333 (-34.9%)	-1,293 (-13.4%)	-4,020 (-32.4%)
	BN	-776 (-13.2%)	-3,606 (-41.5%)	-582 (-9.9%)	-3,412 (-39.2%)
	D	-1,310 (-18.9%)	-2,742 (-32.7%)	-894 (-12.9%)	-2,326 (-27.8%)
	C	-878 (-17.4%)	-1,821 (-30.4%)	-748 (-14.8%)	-1,691 (-28.2%)
	All	-1,018 (-11.1%)	-3,339 (-29%)	-681 (-7.4%)	-3,003 (-26.1%)
Dec	W	2,690 (5.6%)	1,116 (2.2%)	3,675 (7.6%)	2,101 (4.2%)
	AN	1,601 (8.9%)	231 (1.2%)	1,452 (8.1%)	82 (0.4%)
	BN	1,172 (9.8%)	-163 (-1.2%)	2,017 (16.9%)	683 (5.1%)
	D	238 (2.7%)	656 (7.7%)	363 (4.1%)	781 (9.2%)
	C	-212 (-3.8%)	-186 (-3.4%)	-104 (-1.9%)	-78 (-1.4%)
	All	1,309 (5.8%)	477 (2%)	1,787 (7.9%)	955 (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.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

San Joaquin River at Vernalis

Table F.1-33. Mean Monthly Flows (cfs) for Model Scenarios in the San Joaquin River at Vernalis, Year-Round

Alternative 4A_ELT: In Delta—San Joaquin River at Vernalis					
Month	Water Year Type[a]	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	9,089	9,838	9,874	9,884
	AN	5,447	5,781	5,809	5,809
	BN	2,326	2,291	2,289	2,298
	D	2,270	2,247	2,248	2,219
	C	1,667	1,603	1,603	1,597
	All	4,777	5,040	5,055	5,054
Feb	W	12,750	14,001	13,997	14,000
	AN	6,965	7,100	7,039	7,072
	BN	2,983	2,965	2,963	2,933
	D	2,590	2,312	2,312	2,312
	C	2,120	1,942	1,943	1,942
	All	6,388	6,699	6,685	6,688
Mar	W	14,374	15,127	15,129	15,129
	AN	6,284	6,252	6,252	6,252
	BN	2,949	2,614	2,614	2,614
	D	2,479	2,191	2,192	2,191
	C	1,813	1,689	1,689	1,689
	All	6,648	6,739	6,739	6,739
Apr	W	11,955	12,185	12,190	12,189
	AN	6,014	5,970	5,970	5,970
	BN	4,490	4,161	4,162	4,162
	D	3,656	3,380	3,380	3,380
	C	1,983	1,844	1,845	1,844
	All	6,351	6,286	6,288	6,288
May	W	12,109	13,210	13,212	13,213
	AN	5,381	5,278	5,279	5,279
	BN	4,074	3,871	3,876	3,874
	D	3,308	3,040	3,044	3,041
	C	1,965	1,819	1,820	1,819
	All	6,148	6,347	6,349	6,348
Jun	W	11,058	9,255	9,253	9,252
	AN	2,965	2,782	2,784	2,783
	BN	2,051	1,960	1,967	1,964
	D	1,537	1,361	1,365	1,362
	C	1,020	975	977	976
	All	4,583	3,969	3,970	3,969
Jul	W	7,654	5,903	5,905	5,904
	AN	1,958	1,806	1,812	1,811
	BN	1,491	1,432	1,445	1,439
	D	1,296	1,146	1,151	1,147
	C	898	869	868	870
	All	3,239	2,658	2,663	2,661

Alternative 4A_ELT: In Delta—San Joaquin River at Vernalis					
Month	Water Year Type[a]	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	3,539	3,051	3,053	3,052
	AN	2,000	1,764	1,768	1,768
	BN	1,460	1,423	1,433	1,429
	D	1,375	1,272	1,276	1,272
	C	1,007	993	994	993
	All	2,072	1,858	1,862	1,860
Sep	W	3,519	3,306	3,307	3,306
	AN	2,355	2,221	2,224	2,223
	BN	1,829	1,800	1,804	1,802
	D	1,796	1,691	1,693	1,692
	C	1,402	1,392	1,392	1,392
	All	2,338	2,226	2,228	2,227
Oct	W	2,759	2,714	2,710	2,714
	AN	2,745	2,638	2,638	2,638
	BN	2,502	2,412	2,413	2,412
	D	2,945	2,849	2,850	2,849
	C	2,213	2,162	2,163	2,163
	All	2,638	2,565	2,564	2,565
Nov	W	2,534	2,516	2,515	2,516
	AN	3,182	3,232	3,238	3,254
	BN	2,150	2,180	2,222	2,222
	D	2,272	2,244	2,290	2,290
	C	1,968	1,911	1,911	1,911
	All	2,448	2,441	2,456	2,459
Dec	W	4,370	4,835	4,862	4,868
	AN	4,711	4,917	5,002	5,001
	BN	2,182	2,099	2,134	2,135
	D	2,129	2,072	2,103	2,085
	C	1,729	1,689	1,696	1,686
	All	3,219	3,366	3,401	3,399

[a] Water year type for this location was determined using the San Joaquin River Valley Index.
cfs = cubic feet per second
Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

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

Alternative 4A_ELT: In Delta—San Joaquin River at Vernalis					
Month	**Water Year Type[b]**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	785 (8.6%)	35 (0.4%)	795 (8.7%)	45 (0.5%)
	AN	362 (6.6%)	28 (0.5%)	362 (6.7%)	28 (0.5%)
	BN	-37 (-1.6%)	-2 (-0.1%)	-28 (-1.2%)	7 (0.3%)
	D	-22 (-1%)	2 (0.1%)	-51 (-2.3%)	-28 (-1.2%)
	C	-64 (-3.9%)	0 (0%)	-70 (-4.2%)	-5 (-0.3%)
	All	278 (5.8%)	16 (0.3%)	277 (5.8%)	15 (0.3%)
Feb	W	1,246 (9.8%)	-5 (0%)	1,249 (9.8%)	-2 (0%)
	AN	74 (1.1%)	-62 (-0.9%)	108 (1.5%)	-28 (-0.4%)
	BN	-19 (-0.6%)	-2 (-0.1%)	-50 (-1.7%)	-32 (-1.1%)
	D	-278 (-10.7%)	0 (0%)	-278 (-10.7%)	0 (0%)
	C	-177 (-8.3%)	0 (0%)	-178 (-8.4%)	0 (0%)
	All	298 (4.7%)	-14 (-0.2%)	300 (4.7%)	-11 (-0.2%)
Mar	W	755 (5.3%)	2 (0%)	755 (5.3%)	2 (0%)
	AN	-32 (-0.5%)	0 (0%)	-33 (-0.5%)	0 (0%)
	BN	-334 (-11.3%)	1 (0%)	-335 (-11.4%)	0 (0%)
	D	-287 (-11.6%)	0 (0%)	-288 (-11.6%)	0 (0%)
	C	-124 (-6.8%)	0 (0%)	-124 (-6.8%)	0 (0%)
	All	92 (1.4%)	1 (0%)	92 (1.4%)	1 (0%)
Apr	W	235 (2%)	5 (0%)	234 (2%)	4 (0%)
	AN	-44 (-0.7%)	0 (0%)	-45 (-0.7%)	0 (0%)
	BN	-328 (-7.3%)	1 (0%)	-329 (-7.3%)	0 (0%)
	D	-276 (-7.5%)	1 (0%)	-277 (-7.6%)	0 (0%)
	C	-138 (-7%)	1 (0%)	-139 (-7%)	0 (0%)
	All	-63 (-1%)	2 (0%)	-63 (-1%)	1 (0%)
May	W	1,103 (9.1%)	2 (0%)	1,104 (9.1%)	3 (0%)
	AN	-102 (-1.9%)	2 (0%)	-103 (-1.9%)	1 (0%)
	BN	-198 (-4.9%)	5 (0.1%)	-200 (-4.9%)	3 (0.1%)
	D	-265 (-8%)	3 (0.1%)	-268 (-8.1%)	0 (0%)
	C	-145 (-7.4%)	1 (0.1%)	-145 (-7.4%)	0 (0%)
	All	201 (3.3%)	2 (0%)	201 (3.3%)	2 (0%)
Jun	W	-1,805 (-16.3%)	-2 (0%)	-1,805 (-16.3%)	-3 (0%)
	AN	-181 (-6.1%)	1 (0%)	-181 (-6.1%)	1 (0%)
	BN	-84 (-4.1%)	7 (0.3%)	-86 (-4.2%)	4 (0.2%)
	D	-172 (-11.2%)	4 (0.3%)	-176 (-11.4%)	1 (0.1%)
	C	-44 (-4.3%)	2 (0.2%)	-45 (-4.4%)	1 (0.1%)
	All	-613 (-13.4%)	2 (0%)	-614 (-13.4%)	0 (0%)
Jul	W	-1,749 (-22.9%)	2 (0%)	-1,750 (-22.9%)	1 (0%)
	AN	-146 (-7.5%)	6 (0.3%)	-147 (-7.5%)	5 (0.3%)
	BN	-46 (-3.1%)	13 (0.9%)	-52 (-3.5%)	8 (0.5%)
	D	-144 (-11.1%)	6 (0.5%)	-149 (-11.5%)	1 (0.1%)
	C	-30 (-3.3%)	0 (0%)	-29 (-3.2%)	1 (0.1%)
	All	-576 (-17.8%)	5 (0.2%)	-578 (-17.9%)	3 (0.1%)

Alternative 4A_ELT: In Delta—San Joaquin River at Vernalis					
Month	**Water Year Type[b]**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	-486 (-13.7%)	2 (0.1%)	-487 (-13.8%)	1 (0%)
	AN	-232 (-11.6%)	4 (0.2%)	-233 (-11.6%)	4 (0.2%)
	BN	-27 (-1.9%)	10 (0.7%)	-31 (-2.1%)	6 (0.4%)
	D	-99 (-7.2%)	4 (0.3%)	-102 (-7.5%)	1 (0.1%)
	C	-14 (-1.3%)	1 (0.1%)	-14 (-1.4%)	1 (0.1%)
	All	-210 (-10.1%)	4 (0.2%)	-212 (-10.2%)	2 (0.1%)
Sep	W	-212 (-6%)	1 (0%)	-213 (-6.1%)	-1 (0%)
	AN	-131 (-5.6%)	2 (0.1%)	-131 (-5.6%)	2 (0.1%)
	BN	-25 (-1.4%)	5 (0.3%)	-27 (-1.5%)	3 (0.2%)
	D	-103 (-5.7%)	2 (0.1%)	-105 (-5.8%)	0 (0%)
	C	-10 (-0.7%)	0 (0%)	-10 (-0.7%)	0 (0%)
	All	-110 (-4.7%)	2 (0.1%)	-111 (-4.7%)	1 (0%)
Oct	W	-50 (-1.8%)	-4 (-0.2%)	-45 (-1.6%)	0 (0%)
	AN	-107 (-3.9%)	1 (0%)	-107 (-3.9%)	0 (0%)
	BN	-89 (-3.6%)	1 (0%)	-90 (-3.6%)	1 (0%)
	D	-95 (-3.2%)	1 (0%)	-95 (-3.2%)	0 (0%)
	C	-50 (-2.2%)	1 (0%)	-50 (-2.3%)	0 (0%)
	All	-74 (-2.8%)	-1 (0%)	-73 (-2.8%)	0 (0%)
Nov	W	-18 (-0.7%)	-1 (0%)	-18 (-0.7%)	0 (0%)
	AN	56 (1.7%)	5 (0.2%)	72 (2.3%)	22 (0.7%)
	BN	72 (3.3%)	42 (1.9%)	72 (3.3%)	42 (1.9%)
	D	18 (0.8%)	46 (2%)	18 (0.8%)	46 (2%)
	C	-57 (-2.9%)	0 (0%)	-57 (-2.9%)	0 (0%)
	All	9 (0.4%)	15 (0.6%)	12 (0.5%)	18 (0.7%)
Dec	W	492 (11.2%)	26 (0.5%)	498 (11.4%)	33 (0.7%)
	AN	290 (6.2%)	84 (1.7%)	290 (6.2%)	84 (1.7%)
	BN	-48 (-2.2%)	35 (1.7%)	-46 (-2.1%)	36 (1.7%)
	D	-26 (-1.2%)	31 (1.5%)	-44 (-2.1%)	13 (0.6%)
	C	-33 (-1.9%)	6 (0.4%)	-42 (-2.5%)	-3 (-0.2%)
	All	182 (5.7%)	36 (1.1%)	180 (5.6%)	33 (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.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Mokelumne River at the Delta

Table F.1-35. Mean Monthly Flows (cfs) for Model Scenarios in the Mokelumne River at the Delta, Year-Round

Alternative 4A_ELT: In Delta—Mokelumne River at the Delta					
Month	Water Year Type[a]	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	3,071	3,389	3,389	3,389
	AN	1,707	1,759	1,759	1,759
	BN	597	622	622	622
	D	495	484	484	484
	C	280	282	282	282
	All	1,460	1,565	1,565	1,565
Feb	W	3,290	3,720	3,720	3,720
	AN	2,525	2,894	2,894	2,894
	BN	1,011	1,045	1,045	1,045
	D	695	684	684	684
	C	427	441	441	441
	All	1,809	2,014	2,014	2,014
Mar	W	3,179	3,243	3,243	3,243
	AN	1,582	1,633	1,633	1,633
	BN	1,181	1,144	1,144	1,144
	D	754	712	712	712
	C	595	581	581	581
	All	1,662	1,675	1,675	1,675
Apr	W	2,819	2,748	2,748	2,748
	AN	1,619	1,529	1,529	1,529
	BN	1,243	1,164	1,164	1,164
	D	623	577	577	577
	C	340	322	322	322
	All	1,503	1,442	1,442	1,442
May	W	3,170	3,094	3,094	3,094
	AN	1,439	1,303	1,303	1,303
	BN	976	886	886	886
	D	406	360	360	360
	C	181	179	179	179
	All	1,463	1,392	1,392	1,392
Jun	W	1,755	1,605	1,605	1,605
	AN	851	727	727	727
	BN	471	400	400	400
	D	93	83	83	83
	C	52	48	48	48
	All	779	697	697	697
Jul	W	772	613	613	613
	AN	347	228	228	228
	BN	123	88	88	88
	D	7	6	6	6
	C	3	3	3	3
	All	315	239	239	239

Alternative 4A_ELT: In Delta—Mokelumne River at the Delta					
Month	Water Year Type[a]	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	703	476	476	476
	AN	328	241	241	241
	BN	112	79	79	79
	D	4	4	4	4
	C	2	2	2	2
	All	289	200	200	200
Sep	W	702	549	549	549
	AN	333	271	271	271
	BN	114	95	95	95
	D	10	9	9	9
	C	5	5	5	5
	All	291	231	231	231
Oct	W	161	152	152	152
	AN	178	178	178	178
	BN	154	148	148	148
	D	180	169	169	169
	C	117	125	125	125
	All	158	154	154	154
Nov	W	487	502	502	502
	AN	912	1,009	1,009	1,009
	BN	347	347	347	347
	D	380	371	371	371
	C	195	202	202	202
	All	474	497	497	497
Dec	W	1,504	1,766	1,766	1,766
	AN	1,411	1,806	1,806	1,806
	BN	447	505	505	505
	D	383	392	392	392
	C	204	217	217	217
	All	887	1,054	1,054	1,054

[a] Water year type for this location was determined using the San Joaquin River Valley Index.
cfs = cubic feet per second
Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

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

Alternative 4A_ELT: In Delta—Mokelumne River at the Delta					
Month	**Water Year Type[b]**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	318 (10.3%)	0 (0%)	318 (10.3%)	0 (0%)
	AN	52 (3%)	0 (0%)	52 (3%)	0 (0%)
	BN	25 (4.2%)	0 (0%)	25 (4.2%)	0 (0%)
	D	-11 (-2.3%)	0 (0%)	-11 (-2.3%)	0 (0%)
	C	2 (0.6%)	0 (0%)	2 (0.6%)	0 (0%)
	All	106 (7.2%)	0 (0%)	106 (7.2%)	0 (0%)
Feb	W	430 (13.1%)	0 (0%)	430 (13.1%)	0 (0%)
	AN	369 (14.6%)	0 (0%)	369 (14.6%)	0 (0%)
	BN	35 (3.4%)	0 (0%)	35 (3.4%)	0 (0%)
	D	-10 (-1.5%)	0 (0%)	-10 (-1.5%)	0 (0%)
	C	15 (3.4%)	0 (0%)	15 (3.4%)	0 (0%)
	All	205 (11.3%)	0 (0%)	205 (11.3%)	0 (0%)
Mar	W	65 (2%)	0 (0%)	65 (2%)	0 (0%)
	AN	51 (3.2%)	0 (0%)	51 (3.2%)	0 (0%)
	BN	-37 (-3.2%)	0 (0%)	-37 (-3.2%)	0 (0%)
	D	-43 (-5.6%)	0 (0%)	-43 (-5.6%)	0 (0%)
	C	-14 (-2.3%)	0 (0%)	-14 (-2.3%)	0 (0%)
	All	13 (0.8%)	0 (0%)	13 (0.8%)	0 (0%)
Apr	W	-71 (-2.5%)	0 (0%)	-71 (-2.5%)	0 (0%)
	AN	-90 (-5.6%)	0 (0%)	-90 (-5.6%)	0 (0%)
	BN	-79 (-6.4%)	0 (0%)	-79 (-6.4%)	0 (0%)
	D	-46 (-7.4%)	0 (0%)	-46 (-7.4%)	0 (0%)
	C	-18 (-5.3%)	0 (0%)	-18 (-5.3%)	0 (0%)
	All	-62 (-4.1%)	0 (0%)	-62 (-4.1%)	0 (0%)
May	W	-76 (-2.4%)	0 (0%)	-76 (-2.4%)	0 (0%)
	AN	-136 (-9.5%)	0 (0%)	-136 (-9.5%)	0 (0%)
	BN	-90 (-9.2%)	0 (0%)	-90 (-9.2%)	0 (0%)
	D	-45 (-11.2%)	0 (0%)	-45 (-11.2%)	0 (0%)
	C	-2 (-0.9%)	0 (0%)	-2 (-0.9%)	0 (0%)
	All	-71 (-4.8%)	0 (0%)	-71 (-4.8%)	0 (0%)
Jun	W	-149 (-8.5%)	0 (0%)	-149 (-8.5%)	0 (0%)
	AN	-124 (-14.6%)	0 (0%)	-124 (-14.6%)	0 (0%)
	BN	-72 (-15.2%)	0 (0%)	-72 (-15.2%)	0 (0%)
	D	-10 (-11.2%)	0 (0%)	-10 (-11.2%)	0 (0%)
	C	-4 (-7.8%)	0 (0%)	-4 (-7.8%)	0 (0%)
	All	-82 (-10.5%)	0 (0%)	-82 (-10.5%)	0 (0%)
Jul	W	-159 (-20.6%)	0 (0%)	-159 (-20.6%)	0 (0%)
	AN	-120 (-34.5%)	0 (0%)	-120 (-34.5%)	0 (0%)
	BN	-36 (-28.9%)	0 (0%)	-36 (-28.9%)	0 (0%)
	D	0 (-1.8%)	0 (0%)	0 (-1.8%)	0 (0%)
	C	0 (-5%)	0 (0%)	0 (-5%)	0 (0%)
	All	-76 (-24%)	0 (0%)	-76 (-24%)	0 (0%)

Alternative 4A_ELT: In Delta—Mokelumne River at the Delta					
Month	**Water Year Type[b]**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	-227 (-32.3%)	0 (0%)	-227 (-32.3%)	0 (0%)
	AN	-88 (-26.7%)	0 (0%)	-88 (-26.7%)	0 (0%)
	BN	-34 (-30%)	0 (0%)	-34 (-30%)	0 (0%)
	D	0 (-2%)	0 (0%)	0 (-2%)	0 (0%)
	C	0 (-0.5%)	0 (0%)	0 (-0.5%)	0 (0%)
	All	-89 (-30.8%)	0 (0%)	-89 (-30.8%)	0 (0%)
Sep	W	-154 (-21.9%)	0 (0%)	-154 (-21.9%)	0 (0%)
	AN	-61 (-18.5%)	0 (0%)	-61 (-18.5%)	0 (0%)
	BN	-19 (-16.9%)	0 (0%)	-19 (-16.9%)	0 (0%)
	D	-1 (-10%)	0 (0%)	-1 (-10%)	0 (0%)
	C	0 (0.5%)	0 (0%)	0 (0.5%)	0 (0%)
	All	-60 (-20.7%)	0 (0%)	-60 (-20.7%)	0 (0%)
Oct	W	-9 (-5.4%)	0 (0%)	-9 (-5.4%)	0 (0%)
	AN	0 (0.2%)	0 (0%)	0 (0.2%)	0 (0%)
	BN	-6 (-4%)	0 (0%)	-6 (-4%)	0 (0%)
	D	-12 (-6.5%)	0 (0%)	-12 (-6.5%)	0 (0%)
	C	8 (7%)	0 (0%)	8 (7%)	0 (0%)
	All	-4 (-2.3%)	0 (0%)	-4 (-2.3%)	0 (0%)
Nov	W	15 (3%)	0 (0%)	15 (3%)	0 (0%)
	AN	97 (10.6%)	0 (0%)	97 (10.6%)	0 (0%)
	BN	0 (-0.1%)	0 (0%)	0 (-0.1%)	0 (0%)
	D	-9 (-2.5%)	0 (0%)	-9 (-2.5%)	0 (0%)
	C	7 (3.4%)	0 (0%)	7 (3.4%)	0 (0%)
	All	23 (4.9%)	0 (0%)	23 (4.9%)	0 (0%)
Dec	W	262 (17.4%)	0 (0%)	262 (17.4%)	0 (0%)
	AN	395 (28%)	0 (0%)	395 (28%)	0 (0%)
	BN	58 (12.9%)	0 (0%)	58 (12.9%)	0 (0%)
	D	9 (2.3%)	0 (0%)	9 (2.3%)	0 (0%)
	C	14 (6.7%)	0 (0%)	14 (6.7%)	0 (0%)
	All	167 (18.8%)	0 (0%)	167 (18.8%)	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.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2 Water Temperature

F.1.2.1 Sacramento River at Keswick

Table F.1-37. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the Sacramento River at Keswick, Year-Round

Alternative 4A_ELT: Sacramento River at Keswick					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	46	46	46	46
	AN	46	47	47	47
	BN	47	47	47	47
	D	47	47	48	48
	C	47	47	48	48
	All	46	47	47	47
Feb	W	45	46	46	46
	AN	46	46	46	46
	BN	46	46	46	46
	D	46	47	47	47
	C	46	47	47	47
	All	46	46	46	46
Mar	W	46	47	47	47
	AN	46	47	47	47
	BN	47	47	47	47
	D	47	48	48	48
	C	48	49	49	49
	All	47	47	47	47
Apr	W	47	48	48	48
	AN	48	49	49	49
	BN	48	49	49	49
	D	48	49	49	49
	C	49	50	50	50
	All	48	49	49	49
May	W	49	49	50	49
	AN	49	50	50	50
	BN	49	50	50	50
	D	49	50	50	50
	C	51	52	52	52
	All	49	50	50	50
Jun	W	50	50	50	50
	AN	50	50	50	50
	BN	50	50	50	50
	D	50	51	51	51
	C	53	54	53	53
	All	50	51	51	51

Alternative 4A_ELT: Sacramento River at Keswick					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jul	W	51	51	51	51
	AN	51	51	51	51
	BN	51	51	52	51
	D	51	52	52	52
	C	54	57	57	56
	All	51	52	52	52
Aug	W	52	53	53	53
	AN	52	53	53	53
	BN	52	53	53	53
	D	53	54	55	54
	C	57	60	60	58
	All	53	54	54	54
Sep	W	53	54	54	54
	AN	54	54	55	55
	BN	54	55	55	55
	D	55	57	57	56
	C	60	64	63	61
	All	55	56	56	56
Oct	W	54	55	55	55
	AN	54	55	55	55
	BN	54	56	55	55
	D	55	57	57	56
	C	56	58	58	57
	All	54	56	56	56
Nov	W	53	54	53	53
	AN	52	53	53	53
	BN	53	54	54	54
	D	53	54	54	54
	C	54	55	55	55
	All	53	54	54	54
Dec	W	49	50	50	50
	AN	49	50	50	50
	BN	50	51	51	51
	D	50	51	51	51
	C	51	51	51	52
	All	50	50	50	51

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

Table F.1-38. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the Sacramento River at Keswick, Year-Round

Alternative 4A_ELT: Sacramento River at Keswick					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	0.6 (1.3%)	0.1 (0.2%)	0.6 (1.4%)	0.1 (0.3%)
	AN	0.6 (1.4%)	0 (0%)	0.8 (1.7%)	0.1 (0.3%)
	BN	0.8 (1.7%)	0.1 (0.2%)	0.8 (1.8%)	0.1 (0.2%)
	D	0.8 (1.7%)	0.1 (0.1%)	1 (2.1%)	0.2 (0.5%)
	C	1 (2.1%)	0.2 (0.5%)	1.2 (2.6%)	0.4 (0.9%)
	All	0.7 (1.6%)	0.1 (0.2%)	0.8 (1.8%)	0.2 (0.4%)
Feb	W	0.8 (1.7%)	0 (0.1%)	0.8 (1.7%)	0 (0.1%)
	AN	0.9 (1.9%)	0.1 (0.3%)	0.9 (1.9%)	0.2 (0.3%)
	BN	0.8 (1.8%)	0.1 (0.1%)	0.9 (1.9%)	0.1 (0.2%)
	D	0.9 (1.9%)	0 (0%)	1 (2.2%)	0.1 (0.3%)
	C	0.9 (1.9%)	0 (0%)	1.1 (2.3%)	0.2 (0.4%)
	All	0.8 (1.8%)	0 (0.1%)	0.9 (2%)	0.1 (0.2%)
Mar	W	0.7 (1.6%)	0 (0.1%)	0.7 (1.5%)	0 (0%)
	AN	0.9 (1.9%)	0.1 (0.2%)	0.9 (1.9%)	0.1 (0.2%)
	BN	0.8 (1.7%)	0.1 (0.2%)	0.8 (1.7%)	0.1 (0.1%)
	D	0.8 (1.7%)	0 (0%)	0.8 (1.8%)	0.1 (0.1%)
	C	0.9 (1.9%)	0 (0.1%)	1 (2.1%)	0.1 (0.3%)
	All	0.8 (1.7%)	0.1 (0.1%)	0.8 (1.7%)	0 (0.1%)
Apr	W	0.8 (1.7%)	0 (0.1%)	0.7 (1.5%)	0 (-0.1%)
	AN	0.8 (1.7%)	0.1 (0.2%)	0.8 (1.6%)	0.1 (0.1%)
	BN	0.8 (1.7%)	0.1 (0.3%)	0.8 (1.6%)	0.1 (0.2%)
	D	0.7 (1.4%)	0 (-0.1%)	0.8 (1.6%)	0 (0.1%)
	C	1 (2%)	0 (0.1%)	1 (2.1%)	0.1 (0.1%)
	All	0.8 (1.7%)	0 (0.1%)	0.8 (1.6%)	0 (0.1%)
May	W	0.9 (1.8%)	0 (0%)	0.8 (1.7%)	0 (-0.1%)
	AN	0.7 (1.4%)	-0.1 (-0.1%)	0.7 (1.4%)	0 (0%)
	BN	0.8 (1.7%)	0 (0%)	0.8 (1.7%)	0 (0%)
	D	0.7 (1.4%)	-0.2 (-0.4%)	0.9 (1.7%)	0 (0%)
	C	0.9 (1.7%)	0 (-0.1%)	0.9 (1.7%)	0 (-0.1%)
	All	0.8 (1.6%)	0 (-0.1%)	0.8 (1.7%)	0 (0%)
Jun	W	0.4 (0.9%)	0 (0%)	0.4 (0.9%)	0 (0%)
	AN	0.7 (1.3%)	0.1 (0.2%)	0.8 (1.6%)	0.2 (0.4%)
	BN	0.5 (1%)	0 (0%)	0.5 (1.1%)	0.1 (0.1%)
	D	0.7 (1.4%)	-0.2 (-0.5%)	0.7 (1.3%)	-0.3 (-0.6%)
	C	0.8 (1.5%)	-0.3 (-0.5%)	0.6 (1.2%)	-0.4 (-0.8%)
	All	0.6 (1.2%)	-0.1 (-0.2%)	0.6 (1.2%)	-0.1 (-0.2%)
Jul	W	0.4 (0.7%)	0 (0%)	0.3 (0.5%)	-0.1 (-0.2%)
	AN	0.9 (1.7%)	0.3 (0.5%)	0.6 (1.1%)	0 (0%)
	BN	0.7 (1.4%)	0.1 (0.2%)	0.5 (1%)	-0.1 (-0.3%)
	D	1 (2%)	0 (0%)	0.8 (1.5%)	-0.2 (-0.5%)
	C	2.3 (4.3%)	0 (-0.1%)	1.4 (2.6%)	-0.9 (-1.7%)
	All	0.9 (1.8%)	0 (0.1%)	0.6 (1.2%)	-0.3 (-0.5%)

Alternative 4A_ELT: Sacramento River at Keswick					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	1 (1.9%)	0.1 (0.2%)	0.8 (1.6%)	-0.1 (-0.1%)
	AN	0.9 (1.7%)	0.2 (0.3%)	0.7 (1.3%)	-0.1 (-0.1%)
	BN	1.4 (2.6%)	0.3 (0.5%)	1 (1.9%)	-0.1 (-0.1%)
	D	1.9 (3.7%)	0.5 (0.9%)	1.3 (2.4%)	-0.2 (-0.3%)
	C	3.5 (6.2%)	-0.3 (-0.4%)	2 (3.5%)	-1.8 (-3%)
	All	1.6 (3.1%)	0.2 (0.3%)	1.1 (2.1%)	-0.3 (-0.6%)
Sep	W	1 (1.8%)	0.4 (0.8%)	0.9 (1.8%)	0.4 (0.8%)
	AN	1.1 (2%)	0.5 (1%)	1.1 (2%)	0.5 (1%)
	BN	1.4 (2.6%)	0.4 (0.7%)	1.2 (2.3%)	0.2 (0.4%)
	D	1.9 (3.4%)	-0.1 (-0.1%)	1.5 (2.8%)	-0.4 (-0.8%)
	C	2.7 (4.4%)	-0.7 (-1.1%)	1.1 (1.8%)	-2.3 (-3.6%)
	All	1.5 (2.8%)	0.2 (0.3%)	1.2 (2.1%)	-0.2 (-0.3%)
Oct	W	1.2 (2.2%)	-0.2 (-0.3%)	1.1 (2.1%)	-0.3 (-0.5%)
	AN	1.1 (2%)	-0.3 (-0.5%)	1 (1.9%)	-0.3 (-0.5%)
	BN	1.1 (2.1%)	-0.2 (-0.3%)	0.9 (1.7%)	-0.3 (-0.6%)
	D	1.6 (3%)	0 (-0.1%)	1.2 (2.2%)	-0.5 (-0.9%)
	C	1.3 (2.3%)	-0.5 (-0.8%)	0.8 (1.4%)	-1 (-1.7%)
	All	1.3 (2.3%)	-0.2 (-0.4%)	1 (1.9%)	-0.4 (-0.8%)
Nov	W	0.9 (1.8%)	-0.2 (-0.3%)	0.9 (1.8%)	-0.2 (-0.3%)
	AN	0.7 (1.4%)	-0.3 (-0.6%)	0.8 (1.6%)	-0.2 (-0.4%)
	BN	0.9 (1.6%)	-0.2 (-0.3%)	0.7 (1.4%)	-0.3 (-0.5%)
	D	1 (1.9%)	-0.1 (-0.2%)	0.9 (1.7%)	-0.2 (-0.3%)
	C	1 (1.8%)	-0.2 (-0.3%)	0.9 (1.7%)	-0.2 (-0.4%)
	All	0.9 (1.7%)	-0.2 (-0.3%)	0.9 (1.7%)	-0.2 (-0.4%)
Dec	W	0.6 (1.2%)	0.1 (0.2%)	0.7 (1.3%)	0.2 (0.3%)
	AN	0.6 (1.2%)	-0.3 (-0.5%)	0.7 (1.4%)	-0.2 (-0.4%)
	BN	0.8 (1.6%)	-0.1 (-0.2%)	0.8 (1.7%)	-0.1 (-0.1%)
	D	0.8 (1.5%)	-0.1 (-0.2%)	0.9 (1.8%)	0 (0.1%)
	C	0.8 (1.6%)	0 (0%)	1 (2%)	0.2 (0.3%)
	All	0.7 (1.4%)	-0.1 (-0.1%)	0.8 (1.6%)	0 (0.1%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.2 Sacramento River at Jelly's Ferry

Table F.1-39. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the Sacramento River at Jelly's Ferry, Year-Round

Alternative 4A_ELT: Sacramento River at Jelly's Ferry					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	45	46	46	46
	AN	45	46	46	46
	BN	45	46	46	46
	D	45	46	46	46
	C	45	46	46	46
	All	45	46	46	46
Feb	W	46	47	47	47
	AN	46	47	47	47
	BN	46	47	47	47
	D	46	47	47	47
	C	47	48	48	48
	All	46	47	47	47
Mar	W	48	49	49	49
	AN	49	50	50	50
	BN	49	50	50	50
	D	50	51	51	51
	C	50	51	51	51
	All	49	50	50	50
Apr	W	51	52	52	52
	AN	53	54	54	54
	BN	53	54	53	53
	D	52	53	53	53
	C	52	53	53	53
	All	52	53	53	53
May	W	54	56	56	56
	AN	55	56	56	56
	BN	54	56	56	56
	D	54	55	55	55
	C	55	56	56	56
	All	54	56	56	56
Jun	W	55	56	56	56
	AN	55	55	55	56
	BN	54	55	55	55
	D	54	55	55	55
	C	56	57	57	57
	All	55	56	56	56

Alternative 4A_ELT: Sacramento River at Jelly's Ferry					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jul	W	56	56	56	56
	AN	55	55	55	55
	BN	55	55	56	55
	D	55	56	56	56
	C	57	60	60	59
	All	55	56	56	56
Aug	W	56	57	57	57
	AN	56	57	57	57
	BN	56	57	57	57
	D	56	58	59	58
	C	59	63	63	62
	All	57	58	58	58
Sep	W	56	56	58	58
	AN	57	57	58	58
	BN	57	58	58	58
	D	58	60	60	60
	C	61	64	64	63
	All	58	59	59	59
Oct	W	54	56	55	55
	AN	54	56	56	56
	BN	55	56	56	56
	D	55	57	57	56
	C	56	58	58	57
	All	55	56	56	56
Nov	W	51	52	51	51
	AN	51	52	51	52
	BN	51	52	52	52
	D	51	52	52	52
	C	52	53	53	53
	All	51	52	52	52
Dec	W	47	47	48	48
	AN	47	47	47	47
	BN	47	48	48	48
	D	47	48	48	48
	C	47	48	48	48
	All	47	48	48	48

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Table F.1-40. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the Sacramento River at Jelly's Ferry, Year-Round

Alternative 4A_ELT: Sacramento River at Jelly's Ferry					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H3_ELT**	**NAA_ELT vs. H3_ELT**	**EXISTING CONDITIONS vs. H3_ELT**	**NAA_ELT vs. H3_ELT**
Jan	W	0.7 (1.5%)	0.1 (0.2%)	0.7 (1.5%)	0.1 (0.2%)
	AN	0.7 (1.5%)	0 (0.1%)	0.8 (1.7%)	0.1 (0.2%)
	BN	0.8 (1.8%)	0 (0.1%)	0.8 (1.9%)	0.1 (0.1%)
	D	0.9 (2%)	0.1 (0.2%)	0.9 (2.1%)	0.1 (0.3%)
	C	1.2 (2.6%)	0.2 (0.4%)	1.2 (2.6%)	0.2 (0.4%)
	All	0.8 (1.8%)	0.1 (0.2%)	0.9 (1.9%)	0.1 (0.2%)
Feb	W	0.8 (1.8%)	0 (0%)	0.8 (1.8%)	0 (0.1%)
	AN	0.8 (1.8%)	0.1 (0.1%)	0.8 (1.8%)	0.1 (0.2%)
	BN	0.9 (1.9%)	0 (0%)	0.9 (1.9%)	0 (0.1%)
	D	1 (2.2%)	0 (0.1%)	1.1 (2.3%)	0.1 (0.2%)
	C	1 (2.2%)	0 (0%)	1.1 (2.4%)	0.1 (0.2%)
	All	0.9 (2%)	0 (0.1%)	0.9 (2%)	0.1 (0.1%)
Mar	W	0.7 (1.4%)	0 (0%)	0.6 (1.3%)	0 (0%)
	AN	0.7 (1.5%)	0 (0%)	0.7 (1.4%)	0 (0%)
	BN	0.7 (1.4%)	-0.1 (-0.1%)	0.7 (1.4%)	-0.1 (-0.1%)
	D	0.8 (1.5%)	0 (0%)	0.8 (1.6%)	0 (0.1%)
	C	0.7 (1.4%)	0 (-0.1%)	0.8 (1.6%)	0 (0.1%)
	All	0.7 (1.4%)	0 (0%)	0.7 (1.5%)	0 (0%)
Apr	W	0.8 (1.6%)	0 (0%)	0.8 (1.6%)	0 (-0.1%)
	AN	0.8 (1.5%)	0 (0%)	0.8 (1.5%)	0 (0%)
	BN	0.8 (1.6%)	-0.1 (-0.1%)	0.9 (1.7%)	0 (-0.1%)
	D	0.8 (1.5%)	-0.1 (-0.2%)	0.8 (1.5%)	-0.1 (-0.1%)
	C	0.9 (1.8%)	0 (0%)	1 (1.9%)	0.1 (0.1%)
	All	0.8 (1.6%)	0 (-0.1%)	0.8 (1.6%)	0 (0%)
May	W	1.6 (3%)	0 (0%)	1.6 (2.9%)	0 (-0.1%)
	AN	0.8 (1.4%)	-0.4 (-0.8%)	0.8 (1.5%)	-0.4 (-0.7%)
	BN	1.1 (2%)	-0.4 (-0.6%)	1.2 (2.1%)	-0.3 (-0.5%)
	D	0.9 (1.8%)	-0.4 (-0.6%)	1.1 (2.1%)	-0.2 (-0.4%)
	C	0.9 (1.7%)	-0.1 (-0.2%)	1 (1.8%)	-0.1 (-0.1%)
	All	1.2 (2.1%)	-0.2 (-0.4%)	1.2 (2.2%)	-0.2 (-0.3%)
Jun	W	0.8 (1.4%)	-0.1 (-0.2%)	0.8 (1.5%)	0 (0%)
	AN	0.6 (1.2%)	-0.2 (-0.3%)	1 (1.8%)	0.2 (0.4%)
	BN	0.6 (1.2%)	-0.2 (-0.3%)	0.9 (1.6%)	0 (0.1%)
	D	0.7 (1.3%)	-0.3 (-0.6%)	0.8 (1.5%)	-0.2 (-0.4%)
	C	0.7 (1.3%)	-0.3 (-0.5%)	0.7 (1.2%)	-0.3 (-0.6%)
	All	0.7 (1.3%)	-0.2 (-0.4%)	0.8 (1.5%)	-0.1 (-0.1%)
Jul	W	0.3 (0.6%)	-0.1 (-0.1%)	0.3 (0.5%)	-0.1 (-0.2%)
	AN	0.8 (1.5%)	0.2 (0.3%)	0.6 (1%)	-0.1 (-0.1%)
	BN	0.8 (1.5%)	0.1 (0.1%)	0.6 (1.1%)	-0.2 (-0.3%)
	D	1 (1.8%)	0 (-0.1%)	0.9 (1.6%)	-0.1 (-0.2%)
	C	2.3 (4%)	0 (-0.1%)	1.7 (3%)	-0.6 (-1%)
	All	0.9 (1.6%)	0 (0%)	0.7 (1.3%)	-0.2 (-0.3%)

Alternative 4A_ELT: Sacramento River at Jelly's Ferry					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H3_ELT**	**NAA_ELT vs. H3_ELT**	**EXISTING CONDITIONS vs. H3_ELT**	**NAA_ELT vs. H3_ELT**
Aug	W	1.3 (2.3%)	0 (0%)	1.1 (2%)	-0.2 (-0.3%)
	AN	0.9 (1.7%)	0.1 (0.1%)	0.7 (1.2%)	-0.2 (-0.4%)
	BN	1.4 (2.6%)	0.1 (0.1%)	1 (1.8%)	-0.4 (-0.6%)
	D	2.3 (4.1%)	0.7 (1.3%)	1.4 (2.4%)	-0.3 (-0.4%)
	C	3.5 (5.9%)	0 (0%)	2.2 (3.8%)	-1.3 (-2.1%)
	All	1.8 (3.2%)	0.2 (0.3%)	1.2 (2.2%)	-0.4 (-0.7%)
Sep	W	1.5 (2.6%)	1.3 (2.3%)	1.4 (2.6%)	1.3 (2.2%)
	AN	0.8 (1.4%)	1.1 (1.9%)	0.9 (1.6%)	1.2 (2%)
	BN	1.2 (2.2%)	0 (0%)	1.1 (1.9%)	-0.1 (-0.2%)
	D	2.3 (3.9%)	-0.1 (-0.2%)	1.9 (3.2%)	-0.5 (-0.9%)
	C	2.5 (4%)	-0.5 (-0.7%)	1.4 (2.3%)	-1.5 (-2.4%)
	All	1.6 (2.9%)	0.5 (0.8%)	1.4 (2.4%)	0.2 (0.4%)
Oct	W	1.2 (2.2%)	-0.1 (-0.2%)	1.2 (2.1%)	-0.2 (-0.3%)
	AN	1.1 (2%)	-0.2 (-0.4%)	1.1 (2%)	-0.2 (-0.3%)
	BN	1.2 (2.2%)	-0.1 (-0.2%)	1.1 (2%)	-0.3 (-0.5%)
	D	1.5 (2.7%)	0 (0%)	1.2 (2.1%)	-0.3 (-0.5%)
	C	1.3 (2.3%)	-0.4 (-0.7%)	0.9 (1.7%)	-0.7 (-1.3%)
	All	1.3 (2.3%)	-0.1 (-0.3%)	1.1 (2%)	-0.3 (-0.5%)
Nov	W	0.8 (1.6%)	-0.3 (-0.7%)	0.8 (1.5%)	-0.3 (-0.7%)
	AN	0.6 (1.2%)	-0.5 (-0.9%)	0.7 (1.5%)	-0.3 (-0.7%)
	BN	0.7 (1.4%)	-0.4 (-0.8%)	0.7 (1.4%)	-0.4 (-0.8%)
	D	0.8 (1.6%)	-0.2 (-0.4%)	0.8 (1.5%)	-0.2 (-0.4%)
	C	0.9 (1.7%)	-0.2 (-0.4%)	0.8 (1.5%)	-0.3 (-0.6%)
	All	0.8 (1.5%)	-0.3 (-0.6%)	0.8 (1.5%)	-0.3 (-0.6%)
Dec	W	0.7 (1.5%)	0.2 (0.4%)	0.8 (1.6%)	0.2 (0.5%)
	AN	0.6 (1.3%)	-0.3 (-0.6%)	0.6 (1.3%)	-0.3 (-0.6%)
	BN	0.8 (1.6%)	-0.1 (-0.1%)	0.8 (1.7%)	0 (0%)
	D	0.8 (1.7%)	0 (0.1%)	0.8 (1.7%)	0 (0.1%)
	C	0.9 (2%)	0.1 (0.2%)	1 (2.1%)	0.2 (0.3%)
	All	0.8 (1.6%)	0 (0%)	0.8 (1.7%)	0.1 (0.1%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.3 Sacramento River at Bend Bridge

Table F.1-41. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the Sacramento River at Bend Bridge, Year-Round

Alternative 4A_ELT: Sacramento River at Bend Bridge					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	45	46	46	46
	AN	45	46	46	46
	BN	45	45	45	46
	D	45	46	46	46
	C	45	46	46	46
	All	45	46	46	46
Feb	W	46	47	47	47
	AN	46	47	47	47
	BN	46	47	47	47
	D	46	47	47	47
	C	47	48	48	48
	All	46	47	47	47
Mar	W	48	49	49	49
	AN	49	50	50	50
	BN	49	50	50	50
	D	50	51	51	51
	C	50	51	51	51
	All	49	50	50	50
Apr	W	51	52	52	52
	AN	53	54	54	54
	BN	53	54	54	54
	D	53	54	54	54
	C	52	53	53	53
	All	52	53	53	53
May	W	54	56	56	56
	AN	55	57	56	56
	BN	55	56	56	56
	D	55	56	56	56
	C	55	57	56	56
	All	55	56	56	56
Jun	W	56	57	56	57
	AN	55	56	56	56
	BN	55	56	56	56
	D	55	56	56	56
	C	57	58	57	57
	All	55	56	56	56
Jul	W	56	57	57	57
	AN	55	56	56	56
	BN	55	56	56	56
	D	56	57	57	57
	C	58	60	60	60
	All	56	57	57	57

Alternative 4A_ELT: Sacramento River at Bend Bridge					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	57	58	58	58
	AN	57	58	58	58
	BN	56	58	58	57
	D	57	59	59	58
	C	60	63	63	62
	All	57	59	59	58
Sep	W	57	57	58	58
	AN	58	58	59	59
	BN	58	59	59	59
	D	58	61	61	60
	C	62	65	64	63
	All	58	59	60	59
Oct	W	54	56	56	55
	AN	55	56	56	56
	BN	55	56	56	56
	D	55	57	57	56
	C	56	58	58	57
	All	55	56	56	56
Nov	W	51	52	51	51
	AN	51	52	51	51
	BN	51	52	52	52
	D	51	52	52	52
	C	52	53	53	53
	All	51	52	52	52
Dec	W	47	47	47	47
	AN	46	47	47	47
	BN	47	47	47	47
	D	46	47	47	47
	C	47	48	48	48
	All	47	47	47	47

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Table F.1-42. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the Sacramento River at Bend Bridge, Year-Round

Alternative 4A_ELT: Sacramento River at Bend Bridge					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	0.7 (1.5%)	0.1 (0.2%)	0.7 (1.6%)	0.1 (0.2%)
	AN	0.7 (1.6%)	0 (0.1%)	0.8 (1.7%)	0.1 (0.2%)
	BN	0.8 (1.9%)	0 (0.1%)	0.9 (1.9%)	0.1 (0.1%)
	D	0.9 (2%)	0.1 (0.2%)	0.9 (2.1%)	0.1 (0.2%)
	C	1.2 (2.7%)	0.2 (0.4%)	1.2 (2.7%)	0.2 (0.4%)
	All	0.8 (1.9%)	0.1 (0.2%)	0.9 (1.9%)	0.1 (0.2%)
Feb	W	0.8 (1.8%)	0 (0%)	0.8 (1.8%)	0 (0.1%)
	AN	0.8 (1.8%)	0.1 (0.1%)	0.9 (1.9%)	0.1 (0.2%)
	BN	0.9 (1.9%)	0 (0%)	0.9 (2%)	0 (0.1%)
	D	1 (2.2%)	0 (0.1%)	1.1 (2.3%)	0.1 (0.1%)
	C	1.1 (2.2%)	0 (0%)	1.1 (2.4%)	0.1 (0.2%)
	All	0.9 (2%)	0 (0.1%)	0.9 (2.1%)	0.1 (0.1%)
Mar	W	0.7 (1.4%)	0 (0%)	0.7 (1.4%)	0 (0%)
	AN	0.7 (1.5%)	0 (0%)	0.7 (1.4%)	0 (0%)
	BN	0.7 (1.4%)	-0.1 (-0.1%)	0.7 (1.4%)	-0.1 (-0.2%)
	D	0.8 (1.5%)	0 (0%)	0.8 (1.6%)	0 (0.1%)
	C	0.7 (1.4%)	0 (-0.1%)	0.8 (1.6%)	0 (0.1%)
	All	0.7 (1.5%)	0 (0%)	0.7 (1.5%)	0 (0%)
Apr	W	0.8 (1.6%)	0 (0%)	0.8 (1.6%)	0 (0%)
	AN	0.8 (1.5%)	0 (0%)	0.8 (1.5%)	0 (0%)
	BN	0.9 (1.6%)	-0.1 (-0.1%)	0.9 (1.7%)	0 (-0.1%)
	D	0.8 (1.5%)	-0.1 (-0.2%)	0.8 (1.5%)	-0.1 (-0.1%)
	C	0.9 (1.7%)	0 (0%)	1 (1.9%)	0.1 (0.1%)
	All	0.8 (1.6%)	0 (-0.1%)	0.8 (1.6%)	0 (0%)
May	W	1.7 (3%)	0 (0%)	1.6 (3%)	0 (-0.1%)
	AN	0.8 (1.4%)	-0.5 (-0.8%)	0.8 (1.5%)	-0.4 (-0.7%)
	BN	1.1 (2.1%)	-0.4 (-0.6%)	1.2 (2.2%)	-0.3 (-0.6%)
	D	1 (1.8%)	-0.4 (-0.6%)	1.1 (2.1%)	-0.2 (-0.4%)
	C	1 (1.7%)	-0.1 (-0.2%)	1 (1.8%)	-0.1 (-0.2%)
	All	1.2 (2.2%)	-0.2 (-0.4%)	1.2 (2.3%)	-0.2 (-0.3%)
Jun	W	0.8 (1.4%)	-0.1 (-0.2%)	0.9 (1.5%)	0 (0%)
	AN	0.6 (1.2%)	-0.2 (-0.3%)	1 (1.9%)	0.2 (0.4%)
	BN	0.6 (1.2%)	-0.2 (-0.4%)	0.9 (1.6%)	0 (0.1%)
	D	0.7 (1.3%)	-0.3 (-0.6%)	0.8 (1.5%)	-0.2 (-0.4%)
	C	0.7 (1.3%)	-0.3 (-0.5%)	0.7 (1.2%)	-0.3 (-0.5%)
	All	0.7 (1.3%)	-0.2 (-0.4%)	0.9 (1.6%)	-0.1 (-0.1%)
Jul	W	0.3 (0.6%)	-0.1 (-0.2%)	0.3 (0.6%)	-0.1 (-0.2%)
	AN	0.8 (1.5%)	0.2 (0.3%)	0.6 (1%)	-0.1 (-0.1%)
	BN	0.8 (1.5%)	0 (0.1%)	0.6 (1.1%)	-0.2 (-0.3%)
	D	1 (1.7%)	0 (-0.1%)	0.9 (1.6%)	-0.1 (-0.2%)
	C	2.3 (3.9%)	0 (-0.1%)	1.7 (3%)	-0.6 (-0.9%)
	All	0.9 (1.6%)	0 (0%)	0.7 (1.3%)	-0.2 (-0.3%)

Alternative 4A_ELT: Sacramento River at Bend Bridge					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	1.3 (2.4%)	0 (0%)	1.2 (2%)	-0.2 (-0.3%)
	AN	0.9 (1.7%)	0 (0.1%)	0.7 (1.2%)	-0.2 (-0.4%)
	BN	1.4 (2.5%)	0 (0.1%)	1 (1.8%)	-0.4 (-0.7%)
	D	2.4 (4.2%)	0.8 (1.3%)	1.4 (2.4%)	-0.3 (-0.4%)
	C	3.5 (5.8%)	0 (0%)	2.3 (3.8%)	-1.2 (-1.9%)
	All	1.8 (3.2%)	0.2 (0.3%)	1.3 (2.2%)	-0.4 (-0.7%)
Sep	W	1.5 (2.7%)	1.4 (2.4%)	1.5 (2.6%)	1.3 (2.4%)
	AN	0.8 (1.4%)	1.1 (2%)	0.9 (1.6%)	1.2 (2.1%)
	BN	1.2 (2.1%)	0 (0%)	1.1 (1.9%)	-0.1 (-0.2%)
	D	2.3 (3.9%)	-0.1 (-0.2%)	1.9 (3.3%)	-0.5 (-0.8%)
	C	2.5 (4%)	-0.4 (-0.6%)	1.5 (2.4%)	-1.4 (-2.2%)
	All	1.7 (2.9%)	0.5 (0.9%)	1.4 (2.5%)	0.3 (0.4%)
Oct	W	1.2 (2.2%)	-0.1 (-0.2%)	1.2 (2.1%)	-0.2 (-0.3%)
	AN	1.1 (2%)	-0.2 (-0.3%)	1.1 (2%)	-0.2 (-0.3%)
	BN	1.2 (2.3%)	-0.1 (-0.2%)	1.1 (2%)	-0.2 (-0.4%)
	D	1.5 (2.6%)	0 (0%)	1.2 (2.1%)	-0.3 (-0.5%)
	C	1.3 (2.4%)	-0.4 (-0.6%)	1 (1.7%)	-0.7 (-1.2%)
	All	1.3 (2.3%)	-0.1 (-0.2%)	1.1 (2%)	-0.3 (-0.5%)
Nov	W	0.8 (1.6%)	-0.4 (-0.7%)	0.8 (1.6%)	-0.4 (-0.7%)
	AN	0.6 (1.3%)	-0.5 (-0.9%)	0.8 (1.5%)	-0.4 (-0.7%)
	BN	0.7 (1.5%)	-0.4 (-0.8%)	0.7 (1.4%)	-0.4 (-0.8%)
	D	0.8 (1.6%)	-0.2 (-0.4%)	0.8 (1.6%)	-0.2 (-0.4%)
	C	0.9 (1.7%)	-0.2 (-0.4%)	0.8 (1.5%)	-0.3 (-0.6%)
	All	0.8 (1.5%)	-0.3 (-0.6%)	0.8 (1.5%)	-0.3 (-0.6%)
Dec	W	0.7 (1.5%)	0.2 (0.4%)	0.8 (1.7%)	0.2 (0.5%)
	AN	0.6 (1.3%)	-0.3 (-0.6%)	0.6 (1.3%)	-0.3 (-0.6%)
	BN	0.8 (1.6%)	-0.1 (-0.1%)	0.8 (1.8%)	0 (0%)
	D	0.8 (1.8%)	0 (0.1%)	0.8 (1.8%)	0 (0.1%)
	C	0.9 (2%)	0.1 (0.2%)	1 (2.2%)	0.2 (0.3%)
	All	0.8 (1.7%)	0 (0.1%)	0.8 (1.7%)	0.1 (0.1%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.4 Sacramento River at Red Bluff Diversion Dam

Table F.1-43. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the Sacramento River at Red Bluff Diversion Dam, Year-Round

Alternative 4A_ELT: Sacramento River at Red Bluff Diversion Dam					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	45	46	46	46
	AN	45	46	46	46
	BN	44	45	45	45
	D	44	45	45	45
	C	44	45	46	46
	All	45	45	46	46
Feb	W	46	47	47	47
	AN	46	47	47	47
	BN	46	47	47	47
	D	46	47	47	47
	C	47	48	48	48
	All	46	47	47	47
Mar	W	48	49	49	49
	AN	49	50	50	50
	BN	49	50	50	50
	D	50	51	51	51
	C	51	51	51	51
	All	49	50	50	50
Apr	W	52	53	53	53
	AN	53	54	54	54
	BN	54	54	54	54
	D	54	54	54	54
	C	53	54	54	54
	All	53	54	54	54
May	W	55	57	57	57
	AN	56	58	57	57
	BN	56	58	57	57
	D	56	57	57	57
	C	57	58	58	58
	All	56	57	57	57
Jun	W	57	58	58	58
	AN	57	58	57	58
	BN	57	58	57	58
	D	57	58	58	58
	C	58	59	59	59
	All	57	58	58	58
Jul	W	58	58	58	58
	AN	57	58	58	58
	BN	57	58	58	58
	D	57	58	58	58
	C	60	62	62	61
	All	58	59	59	59

Alternative 4A_ELT: Sacramento River at Red Bluff Diversion Dam					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	58	60	60	60
	AN	59	60	60	59
	BN	58	59	59	59
	D	59	60	61	60
	C	61	65	65	64
	All	59	61	61	60
Sep	W	58	58	59	59
	AN	59	59	60	60
	BN	59	60	60	60
	D	59	62	62	61
	C	63	65	65	64
	All	59	60	61	61
Oct	W	55	56	56	56
	AN	55	56	56	56
	BN	55	56	56	56
	D	55	57	57	57
	C	56	58	58	58
	All	55	57	56	56
Nov	W	50	52	51	51
	AN	50	52	51	51
	BN	51	52	52	51
	D	51	52	52	52
	C	52	53	53	53
	All	51	52	52	52
Dec	W	46	47	47	47
	AN	46	47	47	47
	BN	46	47	47	47
	D	46	47	47	47
	C	46	47	47	47
	All	46	47	47	47

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

Table F.1-44. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the Sacramento River at Red Bluff Diversion Dam, Year-Round

Alternative 4A_ELT: Sacramento River at Red Bluff Diversion Dam					
Month	Water Year Type	EXISTING CONDITIONS vs. H1_ELT	NAA_ELT vs. H1_ELT	EXISTING CONDITIONS vs. H2_ELT	NAA_ELT vs. H2_ELT
Jan	W	0.7 (1.6%)	0.1 (0.2%)	0.7 (1.6%)	0.1 (0.2%)
	AN	0.7 (1.6%)	0 (0.1%)	0.8 (1.8%)	0.1 (0.2%)
	BN	0.9 (2%)	0 (0.1%)	0.9 (2%)	0.1 (0.1%)
	D	0.9 (2.1%)	0.1 (0.2%)	1 (2.2%)	0.1 (0.2%)
	C	1.2 (2.8%)	0.2 (0.4%)	1.2 (2.7%)	0.1 (0.3%)
	All	0.9 (1.9%)	0.1 (0.2%)	0.9 (2%)	0.1 (0.2%)
Feb	W	0.8 (1.8%)	0 (0%)	0.9 (1.9%)	0 (0.1%)
	AN	0.9 (1.9%)	0.1 (0.1%)	0.9 (1.9%)	0.1 (0.2%)
	BN	0.9 (2%)	0 (0%)	0.9 (2%)	0 (0.1%)
	D	1.1 (2.3%)	0 (0.1%)	1.1 (2.4%)	0.1 (0.1%)
	C	1.1 (2.3%)	0 (0%)	1.2 (2.5%)	0.1 (0.2%)
	All	0.9 (2%)	0 (0%)	1 (2.1%)	0 (0.1%)
Mar	W	0.7 (1.4%)	0 (0%)	0.7 (1.4%)	0 (0%)
	AN	0.7 (1.4%)	0 (0%)	0.7 (1.4%)	0 (0%)
	BN	0.7 (1.4%)	-0.1 (-0.2%)	0.7 (1.4%)	-0.1 (-0.2%)
	D	0.8 (1.6%)	0 (0%)	0.8 (1.6%)	0 (0.1%)
	C	0.7 (1.4%)	0 (-0.1%)	0.8 (1.5%)	0 (0.1%)
	All	0.7 (1.5%)	0 (0%)	0.7 (1.5%)	0 (0%)
Apr	W	0.8 (1.6%)	0 (0%)	0.8 (1.5%)	0 (0%)
	AN	0.8 (1.5%)	0 (0%)	0.8 (1.5%)	0 (0%)
	BN	0.9 (1.6%)	-0.1 (-0.2%)	0.9 (1.7%)	0 (-0.1%)
	D	0.8 (1.5%)	-0.1 (-0.2%)	0.8 (1.5%)	-0.1 (-0.1%)
	C	0.9 (1.7%)	0 (0%)	1 (1.8%)	0.1 (0.1%)
	All	0.8 (1.6%)	0 (-0.1%)	0.8 (1.6%)	0 (0%)
May	W	1.7 (3.1%)	0 (0%)	1.7 (3%)	0 (-0.1%)
	AN	0.8 (1.5%)	-0.5 (-0.9%)	0.9 (1.6%)	-0.4 (-0.7%)
	BN	1.2 (2.1%)	-0.4 (-0.7%)	1.3 (2.2%)	-0.3 (-0.6%)
	D	1 (1.9%)	-0.4 (-0.7%)	1.2 (2.1%)	-0.2 (-0.4%)
	C	1 (1.8%)	-0.1 (-0.3%)	1.1 (1.9%)	-0.1 (-0.2%)
	All	1.2 (2.2%)	-0.2 (-0.4%)	1.3 (2.3%)	-0.2 (-0.3%)
Jun	W	0.9 (1.5%)	-0.1 (-0.2%)	1 (1.7%)	0 (0%)
	AN	0.7 (1.2%)	-0.2 (-0.4%)	1.1 (2%)	0.2 (0.4%)
	BN	0.7 (1.2%)	-0.3 (-0.5%)	1 (1.8%)	0 (0.1%)
	D	0.7 (1.3%)	-0.4 (-0.6%)	0.9 (1.6%)	-0.2 (-0.4%)
	C	0.7 (1.3%)	-0.3 (-0.5%)	0.7 (1.3%)	-0.3 (-0.5%)
	All	0.8 (1.3%)	-0.2 (-0.4%)	0.9 (1.7%)	-0.1 (-0.1%)
Jul	W	0.4 (0.6%)	-0.1 (-0.2%)	0.4 (0.6%)	-0.1 (-0.2%)
	AN	0.8 (1.4%)	0.1 (0.3%)	0.6 (1%)	-0.1 (-0.1%)
	BN	0.8 (1.5%)	0 (0%)	0.6 (1.1%)	-0.2 (-0.3%)
	D	1 (1.7%)	-0.1 (-0.1%)	0.9 (1.7%)	-0.1 (-0.1%)
	C	2.2 (3.7%)	0 (-0.1%)	1.8 (3%)	-0.5 (-0.8%)
	All	0.9 (1.6%)	0 (0%)	0.8 (1.3%)	-0.2 (-0.3%)

Alternative 4A_ELT: Sacramento River at Red Bluff Diversion Dam					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	1.4 (2.4%)	0 (-0.1%)	1.2 (2.1%)	-0.2 (-0.4%)
	AN	1 (1.7%)	0 (0%)	0.7 (1.2%)	-0.3 (-0.5%)
	BN	1.4 (2.5%)	0 (0%)	1 (1.7%)	-0.5 (-0.8%)
	D	2.4 (4.2%)	0.8 (1.3%)	1.4 (2.4%)	-0.3 (-0.4%)
	C	3.4 (5.6%)	0.1 (0.1%)	2.3 (3.8%)	-1 (-1.6%)
	All	1.9 (3.2%)	0.2 (0.3%)	1.3 (2.2%)	-0.4 (-0.7%)
Sep	W	1.6 (2.8%)	1.5 (2.7%)	1.6 (2.8%)	1.5 (2.6%)
	AN	0.8 (1.4%)	1.2 (2.1%)	0.9 (1.6%)	1.3 (2.3%)
	BN	1.2 (2.1%)	-0.1 (-0.2%)	1.1 (1.8%)	-0.2 (-0.4%)
	D	2.4 (4%)	-0.1 (-0.2%)	2 (3.4%)	-0.5 (-0.8%)
	C	2.5 (4%)	-0.3 (-0.5%)	1.6 (2.6%)	-1.2 (-1.8%)
	All	1.7 (2.9%)	0.6 (1%)	1.5 (2.5%)	0.4 (0.6%)
Oct	W	1.2 (2.3%)	-0.1 (-0.1%)	1.2 (2.2%)	-0.1 (-0.2%)
	AN	1.1 (2.1%)	-0.2 (-0.3%)	1.1 (2.1%)	-0.2 (-0.3%)
	BN	1.3 (2.3%)	-0.1 (-0.2%)	1.2 (2.1%)	-0.2 (-0.4%)
	D	1.4 (2.6%)	0 (0%)	1.2 (2.1%)	-0.3 (-0.4%)
	C	1.4 (2.4%)	-0.3 (-0.6%)	1 (1.8%)	-0.6 (-1.1%)
	All	1.3 (2.4%)	-0.1 (-0.2%)	1.2 (2.1%)	-0.3 (-0.5%)
Nov	W	0.8 (1.6%)	-0.3 (-0.7%)	0.8 (1.6%)	-0.4 (-0.7%)
	AN	0.7 (1.3%)	-0.5 (-0.9%)	0.8 (1.6%)	-0.3 (-0.7%)
	BN	0.8 (1.5%)	-0.4 (-0.8%)	0.7 (1.5%)	-0.4 (-0.9%)
	D	0.8 (1.6%)	-0.2 (-0.4%)	0.8 (1.6%)	-0.2 (-0.5%)
	C	0.9 (1.8%)	-0.2 (-0.4%)	0.8 (1.6%)	-0.3 (-0.6%)
	All	0.8 (1.6%)	-0.3 (-0.6%)	0.8 (1.6%)	-0.3 (-0.6%)
Dec	W	0.7 (1.6%)	0.2 (0.4%)	0.8 (1.7%)	0.2 (0.5%)
	AN	0.7 (1.4%)	-0.3 (-0.6%)	0.7 (1.4%)	-0.3 (-0.6%)
	BN	0.8 (1.7%)	-0.1 (-0.2%)	0.8 (1.8%)	0 (0%)
	D	0.9 (1.9%)	0.1 (0.1%)	0.8 (1.8%)	0 (0%)
	C	1 (2.1%)	0.1 (0.2%)	1 (2.2%)	0.1 (0.3%)
	All	0.8 (1.7%)	0 (0.1%)	0.8 (1.8%)	0.1 (0.1%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.5 Sacramento River at Hamilton City

Table F.1-45. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the Sacramento River at Hamilton City, Year-Round

Alternative 4A_ELT: Sacramento River at Hamilton City					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	45	46	46	46
	AN	45	46	46	46
	BN	44	45	45	45
	D	44	45	45	45
	C	44	45	46	46
	All	45	45	46	46
Feb	W	46	47	47	47
	AN	47	48	48	48
	BN	46	47	47	47
	D	47	48	48	48
	C	48	49	49	49
	All	47	48	48	48
Mar	W	49	50	50	50
	AN	51	51	51	51
	BN	51	52	52	52
	D	52	52	53	53
	C	52	53	53	53
	All	51	52	51	51
Apr	W	54	54	54	54
	AN	55	56	56	56
	BN	56	57	57	57
	D	56	57	57	57
	C	56	57	57	57
	All	55	56	56	56
May	W	58	60	60	60
	AN	60	61	61	61
	BN	59	61	61	61
	D	59	61	60	60
	C	60	61	61	61
	All	59	61	60	60
Jun	W	61	62	62	62
	AN	61	62	61	62
	BN	60	61	61	61
	D	60	62	61	62
	C	61	62	62	62
	All	61	62	61	62
Jul	W	62	62	62	62
	AN	61	62	62	61
	BN	61	62	62	62
	D	61	62	62	62
	C	63	65	65	65
	All	62	63	63	62

Alternative 4A_ELT: Sacramento River at Hamilton City					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	62	64	64	63
	AN	62	63	63	63
	BN	62	63	63	63
	D	62	64	65	64
	C	65	68	68	67
	All	62	64	64	64
Sep	W	60	60	62	62
	AN	62	61	63	63
	BN	62	63	63	63
	D	62	65	65	64
	C	64	67	67	66
	All	62	63	64	63
Oct	W	55	57	57	57
	AN	56	57	57	57
	BN	56	57	57	57
	D	56	58	58	58
	C	57	59	59	58
	All	56	57	57	57
Nov	W	50	51	51	51
	AN	50	51	51	51
	BN	50	52	51	51
	D	51	52	52	52
	C	52	53	53	52
	All	51	52	51	51
Dec	W	46	47	47	47
	AN	46	46	46	46
	BN	45	46	46	46
	D	45	46	46	46
	C	45	46	46	46
	All	46	46	46	46

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Table F.1-46. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the Sacramento River at Hamilton City, Year-Round

Alternative 4A_ELT: Sacramento River at Hamilton City					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	0.8 (1.7%)	0.1 (0.1%)	0.8 (1.7%)	0.1 (0.2%)
	AN	0.8 (1.8%)	0 (0%)	0.8 (1.9%)	0.1 (0.1%)
	BN	0.9 (2.1%)	0 (0.1%)	0.9 (2.1%)	0 (0.1%)
	D	1 (2.3%)	0.1 (0.1%)	1 (2.3%)	0.1 (0.2%)
	C	1.3 (2.8%)	0.1 (0.2%)	1.2 (2.7%)	0.1 (0.1%)
	All	0.9 (2.1%)	0.1 (0.1%)	0.9 (2.1%)	0.1 (0.1%)
Feb	W	0.9 (1.9%)	0 (0%)	0.9 (1.9%)	0 (0%)
	AN	0.9 (1.9%)	0 (0%)	0.9 (1.9%)	0 (0.1%)
	BN	1 (2.1%)	0 (0%)	1 (2.1%)	0 (0%)
	D	1.1 (2.4%)	0 (0%)	1.2 (2.5%)	0 (0.1%)
	C	1.2 (2.5%)	0 (0%)	1.2 (2.6%)	0 (0.1%)
	All	1 (2.1%)	0 (0%)	1 (2.2%)	0 (0.1%)
Mar	W	0.7 (1.3%)	0 (0%)	0.7 (1.3%)	0 (0%)
	AN	0.7 (1.4%)	0 (-0.1%)	0.7 (1.4%)	0 (-0.1%)
	BN	0.7 (1.4%)	-0.1 (-0.2%)	0.7 (1.4%)	-0.1 (-0.2%)
	D	0.8 (1.6%)	0 (0%)	0.8 (1.6%)	0 (0.1%)
	C	0.7 (1.3%)	-0.1 (-0.1%)	0.8 (1.5%)	0 (0%)
	All	0.7 (1.4%)	0 (-0.1%)	0.7 (1.4%)	0 (0%)
Apr	W	0.8 (1.5%)	0 (0%)	0.8 (1.5%)	0 (0%)
	AN	0.8 (1.5%)	0 (0%)	0.8 (1.5%)	0 (-0.1%)
	BN	0.9 (1.6%)	-0.1 (-0.2%)	0.9 (1.7%)	-0.1 (-0.1%)
	D	0.8 (1.5%)	-0.1 (-0.2%)	0.9 (1.5%)	-0.1 (-0.1%)
	C	0.9 (1.6%)	0 (0%)	1 (1.7%)	0 (0.1%)
	All	0.8 (1.5%)	0 (-0.1%)	0.9 (1.6%)	0 (-0.1%)
May	W	1.9 (3.2%)	0 (0%)	1.8 (3.2%)	0 (0%)
	AN	0.9 (1.5%)	-0.6 (-0.9%)	1 (1.7%)	-0.5 (-0.8%)
	BN	1.3 (2.2%)	-0.5 (-0.7%)	1.4 (2.4%)	-0.3 (-0.5%)
	D	1.1 (1.9%)	-0.4 (-0.7%)	1.3 (2.2%)	-0.2 (-0.4%)
	C	1.1 (1.8%)	-0.2 (-0.3%)	1.2 (2%)	-0.1 (-0.2%)
	All	1.4 (2.3%)	-0.3 (-0.5%)	1.4 (2.4%)	-0.2 (-0.3%)
Jun	W	1 (1.7%)	-0.1 (-0.2%)	1.1 (1.9%)	0 (0%)
	AN	0.7 (1.1%)	-0.3 (-0.5%)	1.3 (2.1%)	0.2 (0.4%)
	BN	0.8 (1.2%)	-0.4 (-0.6%)	1.2 (2%)	0.1 (0.1%)
	D	0.8 (1.3%)	-0.4 (-0.6%)	1 (1.7%)	-0.1 (-0.2%)
	C	0.8 (1.2%)	-0.3 (-0.4%)	0.8 (1.4%)	-0.2 (-0.3%)
	All	0.8 (1.4%)	-0.3 (-0.5%)	1.1 (1.8%)	0 (0%)
Jul	W	0.4 (0.6%)	-0.1 (-0.2%)	0.4 (0.7%)	-0.1 (-0.1%)
	AN	0.8 (1.3%)	0.1 (0.2%)	0.6 (1%)	-0.1 (-0.2%)
	BN	0.9 (1.4%)	0 (0%)	0.7 (1.1%)	-0.2 (-0.3%)
	D	0.9 (1.5%)	-0.1 (-0.1%)	1 (1.7%)	0 (0.1%)
	C	2.2 (3.5%)	0 (-0.1%)	2 (3.1%)	-0.3 (-0.4%)
	All	0.9 (1.5%)	0 (-0.1%)	0.9 (1.4%)	-0.1 (-0.2%)

Alternative 4A_ELT: Sacramento River at Hamilton City					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	1.6 (2.6%)	-0.1 (-0.1%)	1.5 (2.4%)	-0.2 (-0.4%)
	AN	1 (1.6%)	0 (-0.1%)	0.7 (1.1%)	-0.4 (-0.6%)
	BN	1.4 (2.3%)	-0.2 (-0.2%)	1 (1.6%)	-0.6 (-1%)
	D	2.6 (4.2%)	0.9 (1.4%)	1.4 (2.3%)	-0.3 (-0.5%)
	C	3.4 (5.2%)	0.2 (0.3%)	2.4 (3.8%)	-0.7 (-1.1%)
	All	2 (3.2%)	0.2 (0.3%)	1.4 (2.2%)	-0.4 (-0.6%)
Sep	W	2 (3.3%)	2 (3.3%)	1.9 (3.2%)	2 (3.3%)
	AN	0.8 (1.3%)	1.5 (2.5%)	1 (1.6%)	1.7 (2.7%)
	BN	1.2 (1.9%)	-0.2 (-0.3%)	1.1 (1.7%)	-0.3 (-0.5%)
	D	2.5 (4.1%)	-0.1 (-0.1%)	2.1 (3.5%)	-0.5 (-0.7%)
	C	2.4 (3.7%)	-0.2 (-0.3%)	1.8 (2.9%)	-0.7 (-1.1%)
	All	1.8 (3%)	0.8 (1.2%)	1.7 (2.7%)	0.6 (1%)
Oct	W	1.3 (2.3%)	0 (-0.1%)	1.2 (2.2%)	-0.1 (-0.2%)
	AN	1.3 (2.3%)	-0.1 (-0.3%)	1.2 (2.2%)	-0.2 (-0.3%)
	BN	1.4 (2.5%)	-0.1 (-0.2%)	1.3 (2.3%)	-0.2 (-0.3%)
	D	1.4 (2.5%)	0 (0.1%)	1.2 (2.2%)	-0.2 (-0.3%)
	C	1.4 (2.5%)	-0.2 (-0.4%)	1.2 (2.1%)	-0.5 (-0.8%)
	All	1.4 (2.4%)	-0.1 (-0.1%)	1.2 (2.2%)	-0.2 (-0.3%)
Nov	W	0.9 (1.8%)	-0.3 (-0.5%)	0.9 (1.8%)	-0.3 (-0.5%)
	AN	0.8 (1.7%)	-0.3 (-0.7%)	0.9 (1.8%)	-0.3 (-0.5%)
	BN	0.9 (1.7%)	-0.3 (-0.7%)	0.9 (1.7%)	-0.4 (-0.7%)
	D	0.9 (1.8%)	-0.2 (-0.4%)	0.9 (1.7%)	-0.2 (-0.4%)
	C	1 (2%)	-0.2 (-0.3%)	0.9 (1.8%)	-0.3 (-0.5%)
	All	0.9 (1.8%)	-0.3 (-0.5%)	0.9 (1.8%)	-0.3 (-0.5%)
Dec	W	0.8 (1.8%)	0.2 (0.3%)	0.9 (1.9%)	0.2 (0.4%)
	AN	0.7 (1.6%)	-0.2 (-0.5%)	0.7 (1.6%)	-0.2 (-0.5%)
	BN	0.9 (2%)	-0.1 (-0.1%)	0.9 (2.1%)	0 (0%)
	D	1 (2.1%)	0.1 (0.1%)	0.9 (2%)	0 (0%)
	C	1.1 (2.3%)	0.1 (0.2%)	1.1 (2.4%)	0.1 (0.2%)
	All	0.9 (1.9%)	0 (0.1%)	0.9 (2%)	0 (0.1%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.6 Trinity River below Lewiston Reservoir

Table F.1-47. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the Trinity River below Lewiston Reservoir, Year-Round

Alternative 4A_ELT: Trinity River below Lewiston Reservoir					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	41	42	42	42
	AN	38	39	39	39
	BN	39	40	40	40
	D	39	40	40	39
	C	39	40	40	40
	All	39	40	40	40
Feb	W	43	44	44	44
	AN	43	44	44	44
	BN	42	43	43	43
	D	42	44	44	43
	C	43	44	44	44
	All	43	44	44	44
Mar	W	46	47	46	46
	AN	47	48	48	48
	BN	47	47	47	47
	D	48	48	49	49
	C	48	49	49	49
	All	47	48	48	48
Apr	W	49	50	50	50
	AN	50	51	51	51
	BN	51	52	51	51
	D	51	52	52	52
	C	50	51	51	51
	All	50	51	51	51
May	W	46	47	47	47
	AN	46	47	47	47
	BN	46	48	48	48
	D	47	48	48	48
	C	49	51	51	51
	All	47	48	48	48
Jun	W	48	49	49	49
	AN	51	51	51	51
	BN	52	52	52	52
	D	52	53	53	53
	C	56	57	58	57
	All	51	52	52	52
Jul	W	51	53	53	53
	AN	52	52	52	52
	BN	52	53	53	53
	D	51	52	52	52
	C	53	56	55	55
	All	51	53	53	53

Alternative 4A_ELT: Trinity River below Lewiston Reservoir					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	52	53	52	53
	AN	51	52	51	51
	BN	52	54	53	53
	D	50	52	52	52
	C	54	60	58	56
	All	52	54	53	53
Sep	W	49	50	50	50
	AN	50	50	50	50
	BN	51	54	53	53
	D	50	53	53	52
	C	57	60	60	58
	All	51	53	53	52
Oct	W	48	50	50	50
	AN	49	51	51	51
	BN	50	52	52	51
	D	50	50	50	50
	C	51	54	53	53
	All	49	51	51	51
Nov	W	44	45	45	45
	AN	45	46	46	46
	BN	45	46	46	46
	D	44	45	45	45
	C	46	47	47	47
	All	45	46	46	46
Dec	W	41	42	42	42
	AN	39	41	40	40
	BN	40	41	40	40
	D	40	41	41	41
	C	39	40	40	40
	All	40	41	41	41

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Table F.1-48. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the Trinity River below Lewiston Reservoir, Year-Round

Alternative 4A_ELT: Trinity River below Lewiston Reservoir					
Month	Water Year Type	EXISTING CONDITIONS vs. H1_ELT	NAA_ELT vs. H1_ELT	EXISTING CONDITIONS vs. H2_ELT	NAA_ELT vs. H2_ELT
Jan	W	1 (2.3%)	0 (0.1%)	0.9 (2.1%)	-0.1 (-0.2%)
	AN	1 (2.7%)	0.1 (0.3%)	1 (2.7%)	0.1 (0.4%)
	BN	0.7 (1.8%)	-0.1 (-0.2%)	0.8 (2%)	0 (0.1%)
	D	0.9 (2.2%)	-0.3 (-0.7%)	0.7 (1.7%)	-0.5 (-1.2%)
	C	0.9 (2.3%)	-0.1 (-0.3%)	0.9 (2.2%)	-0.2 (-0.4%)
	All	0.9 (2.3%)	-0.1 (-0.2%)	0.8 (2.1%)	-0.1 (-0.3%)
Feb	W	1.2 (2.7%)	0 (0.1%)	1.2 (2.8%)	0 (0.1%)
	AN	1.1 (2.6%)	0 (0%)	1.2 (2.8%)	0.1 (0.2%)
	BN	1.1 (2.7%)	0 (0.1%)	1.2 (2.8%)	0.1 (0.1%)
	D	1.2 (2.7%)	0 (0%)	1.1 (2.6%)	0 (-0.1%)
	C	1 (2.2%)	-0.2 (-0.3%)	1.1 (2.5%)	0 (0%)
	All	1.1 (2.6%)	0 (0%)	1.2 (2.7%)	0 (0.1%)
Mar	W	0.6 (1.4%)	-0.1 (-0.3%)	0.6 (1.4%)	-0.1 (-0.3%)
	AN	0.6 (1.2%)	0.1 (0.2%)	0.6 (1.2%)	0.1 (0.2%)
	BN	0.8 (1.7%)	0 (0%)	0.9 (1.8%)	0.1 (0.1%)
	D	0.4 (0.9%)	0.1 (0.2%)	0.6 (1.2%)	0.2 (0.4%)
	C	1 (2.1%)	0 (0%)	1.1 (2.3%)	0.1 (0.2%)
	All	0.7 (1.4%)	0 (0%)	0.7 (1.5%)	0 (0.1%)
Apr	W	0.8 (1.6%)	-0.1 (-0.2%)	0.7 (1.3%)	-0.2 (-0.4%)
	AN	1.1 (2.2%)	0.3 (0.6%)	1.1 (2.3%)	0.3 (0.6%)
	BN	0.7 (1.4%)	-0.7 (-1.4%)	0.7 (1.3%)	-0.7 (-1.4%)
	D	0.9 (1.7%)	-0.2 (-0.3%)	0.9 (1.8%)	-0.1 (-0.3%)
	C	0.8 (1.5%)	-0.1 (-0.1%)	0.9 (1.7%)	0 (0.1%)
	All	0.8 (1.6%)	-0.2 (-0.3%)	0.8 (1.6%)	-0.2 (-0.3%)
May	W	1.1 (2.5%)	0 (0%)	1.1 (2.5%)	0 (0.1%)
	AN	1 (2.3%)	0 (0%)	1 (2.1%)	0 (-0.1%)
	BN	1.2 (2.6%)	0 (0%)	1.2 (2.6%)	0 (0.1%)
	D	1.4 (2.9%)	0.1 (0.2%)	1.4 (2.9%)	0.1 (0.2%)
	C	1.7 (3.5%)	-0.1 (-0.2%)	1.7 (3.4%)	-0.2 (-0.3%)
	All	1.3 (2.7%)	0 (0%)	1.3 (2.7%)	0 (0%)
Jun	W	0.8 (1.7%)	0 (0%)	0.8 (1.7%)	0 (0%)
	AN	0.6 (1.2%)	-0.3 (-0.5%)	0.3 (0.6%)	-0.6 (-1.1%)
	BN	0.5 (1%)	-0.1 (-0.1%)	0.5 (1%)	-0.1 (-0.1%)
	D	1.2 (2.3%)	0.6 (1.2%)	1.3 (2.4%)	0.7 (1.3%)
	C	1.8 (3.3%)	0 (0%)	1 (1.9%)	-0.8 (-1.4%)
	All	1 (1.9%)	0.1 (0.2%)	0.8 (1.6%)	0 (-0.1%)
Jul	W	2 (3.9%)	0.1 (0.2%)	2 (3.9%)	0.1 (0.2%)
	AN	0.4 (0.8%)	-0.4 (-0.7%)	0.7 (1.3%)	-0.1 (-0.3%)
	BN	0.9 (1.6%)	0 (-0.1%)	0.9 (1.7%)	0 (0%)
	D	0.9 (1.7%)	-0.2 (-0.3%)	0.8 (1.6%)	-0.2 (-0.4%)
	C	2.5 (4.7%)	-0.5 (-0.9%)	2.7 (5.2%)	-0.3 (-0.5%)
	All	1.4 (2.7%)	-0.1 (-0.3%)	1.5 (2.9%)	-0.1 (-0.1%)

Alternative 4A_ELT: Trinity River below Lewiston Reservoir					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	0.4 (0.7%)	-0.5 (-0.9%)	0.5 (1%)	-0.3 (-0.5%)
	AN	0.5 (0.9%)	-0.2 (-0.4%)	0.4 (0.8%)	-0.3 (-0.6%)
	BN	1.2 (2.2%)	-0.5 (-0.9%)	1.2 (2.4%)	-0.4 (-0.8%)
	D	1.6 (3.2%)	-0.2 (-0.3%)	1.4 (2.8%)	-0.4 (-0.7%)
	C	4.4 (8.1%)	-1.3 (-2.1%)	2.4 (4.4%)	-3.3 (-5.5%)
	All	1.4 (2.7%)	-0.5 (-0.9%)	1.1 (2.1%)	-0.8 (-1.4%)
Sep	W	0.8 (1.6%)	0 (-0.1%)	0.8 (1.7%)	0 (0%)
	AN	0.5 (1%)	-0.1 (-0.1%)	0.4 (0.9%)	-0.1 (-0.3%)
	BN	1.8 (3.6%)	-0.6 (-1%)	1.4 (2.7%)	-1 (-1.9%)
	D	2.5 (5%)	-0.1 (-0.2%)	1.8 (3.7%)	-0.8 (-1.4%)
	C	3.3 (5.8%)	0.1 (0.2%)	1.6 (2.9%)	-1.5 (-2.5%)
	All	1.7 (3.3%)	-0.1 (-0.2%)	1.2 (2.4%)	-0.6 (-1.1%)
Oct	W	1.7 (3.6%)	0 (0%)	1.8 (3.7%)	0 (0%)
	AN	1.3 (2.6%)	0.1 (0.1%)	1.5 (3%)	0.3 (0.6%)
	BN	1.9 (3.7%)	0.1 (0.2%)	1.5 (3.1%)	-0.2 (-0.4%)
	D	0.9 (1.7%)	0.1 (0.2%)	0.9 (1.7%)	0.1 (0.1%)
	C	1.5 (2.9%)	-0.7 (-1.4%)	1.7 (3.2%)	-0.6 (-1%)
	All	1.5 (3%)	-0.1 (-0.1%)	1.5 (3%)	-0.1 (-0.1%)
Nov	W	1.1 (2.4%)	-0.1 (-0.2%)	1.1 (2.4%)	-0.1 (-0.3%)
	AN	0.9 (2.1%)	0 (0.1%)	1.6 (3.7%)	0.8 (1.7%)
	BN	1.2 (2.7%)	-0.1 (-0.2%)	1.1 (2.5%)	-0.2 (-0.3%)
	D	0.9 (1.9%)	-0.2 (-0.4%)	1 (2.2%)	-0.1 (-0.2%)
	C	0.9 (2%)	-0.1 (-0.2%)	0.5 (1.2%)	-0.5 (-1%)
	All	1 (2.3%)	-0.1 (-0.2%)	1.1 (2.4%)	-0.1 (-0.1%)
Dec	W	1.1 (2.6%)	-0.2 (-0.4%)	1.1 (2.7%)	-0.1 (-0.3%)
	AN	0.9 (2.3%)	-0.6 (-1.4%)	1 (2.5%)	-0.5 (-1.2%)
	BN	0.6 (1.5%)	-0.5 (-1.2%)	0.6 (1.5%)	-0.5 (-1.2%)
	D	0.6 (1.5%)	0.1 (0.2%)	0.4 (1%)	-0.1 (-0.2%)
	C	0.7 (1.8%)	0.1 (0.1%)	0.8 (2%)	0.2 (0.4%)
	All	0.8 (2%)	-0.2 (-0.4%)	0.8 (2%)	-0.2 (-0.4%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.7 Trinity River at Douglas City

Table F.1-49. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the Trinity River at Douglas City, Year-Round

Alternative 4A_ELT: Trinity River at Douglas City					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	40	41	41	41
	AN	39	39	39	39
	BN	38	39	39	39
	D	38	39	39	39
	C	39	40	40	40
	All	39	40	40	40
Feb	W	43	44	44	44
	AN	43	44	44	44
	BN	42	43	43	43
	D	43	44	44	44
	C	43	44	44	44
	All	43	44	44	44
Mar	W	46	46	46	46
	AN	47	47	47	47
	BN	47	47	47	47
	D	48	48	48	48
	C	48	49	49	49
	All	47	47	47	47
Apr	W	51	51	51	51
	AN	52	52	53	53
	BN	52	53	53	53
	D	53	53	53	53
	C	52	53	53	53
	All	52	52	52	52
May	W	48	49	49	49
	AN	48	49	49	49
	BN	49	50	50	50
	D	49	50	50	50
	C	52	54	54	53
	All	49	50	50	50
Jun	W	51	52	52	52
	AN	54	55	55	54
	BN	55	56	56	56
	D	57	58	58	58
	C	60	61	61	61
	All	55	56	56	56
Jul	W	57	59	59	59
	AN	58	59	58	59
	BN	59	60	60	60
	D	59	60	60	60
	C	62	64	64	64
	All	59	60	60	60

Alternative 4A_ELT: Trinity River at Douglas City					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	60	61	61	61
	AN	59	60	60	60
	BN	60	61	61	61
	D	58	60	60	60
	C	61	64	64	63
	All	60	61	61	61
Sep	W	55	56	56	56
	AN	55	56	56	56
	BN	56	58	58	57
	D	55	57	57	57
	C	59	63	61	60
	All	56	58	57	57
Oct	W	50	52	52	52
	AN	51	52	52	52
	BN	52	53	53	53
	D	51	52	52	52
	C	53	54	54	54
	All	51	52	52	52
Nov	W	44	45	45	45
	AN	45	46	46	46
	BN	45	46	46	46
	D	44	45	45	45
	C	46	46	46	46
	All	44	45	45	45
Dec	W	41	42	42	42
	AN	40	41	41	41
	BN	39	40	40	40
	D	40	40	41	40
	C	39	39	39	39
	All	40	41	41	41

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Table F.1-50. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the Trinity River at Douglas City, Year-Round

Alternative 4A_ELT: Trinity River at Douglas City					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	0.8 (1.9%)	0 (0.1%)	0.7 (1.8%)	0 (0%)
	AN	0.8 (2%)	0.1 (0.4%)	0.8 (2.1%)	0.2 (0.5%)
	BN	0.6 (1.7%)	0.1 (0.3%)	0.7 (1.7%)	0.2 (0.4%)
	D	0.8 (2.1%)	-0.1 (-0.3%)	0.7 (1.7%)	-0.3 (-0.7%)
	C	0.9 (2.2%)	0 (-0.1%)	0.8 (2.1%)	-0.1 (-0.2%)
	All	0.8 (2%)	0 (0.1%)	0.7 (1.9%)	0 (0%)
Feb	W	0.8 (1.8%)	0 (0%)	0.8 (1.8%)	0 (0%)
	AN	0.8 (1.8%)	0 (0%)	0.8 (1.9%)	0 (0.1%)
	BN	0.8 (1.9%)	0 (0%)	0.8 (2%)	0 (0%)
	D	0.8 (1.9%)	0 (0%)	0.8 (1.9%)	0 (-0.1%)
	C	0.9 (2%)	-0.1 (-0.2%)	0.9 (2.1%)	0 (0%)
	All	0.8 (1.9%)	0 (0%)	0.8 (1.9%)	0 (0%)
Mar	W	0.4 (0.8%)	0 (-0.1%)	0.4 (0.8%)	0 (-0.1%)
	AN	0.3 (0.7%)	0 (0.1%)	0.3 (0.7%)	0 (0.1%)
	BN	0.4 (0.9%)	0 (0%)	0.5 (1%)	0 (0.1%)
	D	0.3 (0.7%)	0 (0.1%)	0.4 (0.7%)	0.1 (0.2%)
	C	0.7 (1.4%)	0 (0%)	0.7 (1.5%)	0 (0.1%)
	All	0.4 (0.9%)	0 (0%)	0.4 (0.9%)	0 (0%)
Apr	W	0.5 (1%)	-0.1 (-0.1%)	0.5 (0.9%)	-0.1 (-0.2%)
	AN	0.7 (1.3%)	0.3 (0.5%)	0.7 (1.3%)	0.3 (0.5%)
	BN	0.5 (0.9%)	-0.3 (-0.6%)	0.5 (0.9%)	-0.3 (-0.6%)
	D	0.7 (1.2%)	-0.1 (-0.2%)	0.6 (1.2%)	-0.1 (-0.2%)
	C	0.7 (1.3%)	0 (0%)	0.7 (1.4%)	0 (0%)
	All	0.6 (1.1%)	-0.1 (-0.1%)	0.6 (1.1%)	-0.1 (-0.1%)
May	W	1.1 (2.3%)	0 (0%)	1.1 (2.4%)	0 (0%)
	AN	1 (2.2%)	0 (0%)	1 (2.1%)	0 (-0.1%)
	BN	1.2 (2.5%)	0 (0%)	1.2 (2.5%)	0 (0.1%)
	D	1.3 (2.7%)	0.1 (0.1%)	1.3 (2.8%)	0.1 (0.2%)
	C	1.7 (3.4%)	-0.1 (-0.1%)	1.7 (3.2%)	-0.1 (-0.2%)
	All	1.3 (2.6%)	0 (0%)	1.3 (2.6%)	0 (0%)
Jun	W	0.7 (1.4%)	0 (0%)	0.7 (1.4%)	0 (0%)
	AN	0.7 (1.3%)	-0.2 (-0.4%)	0.5 (0.8%)	-0.5 (-0.8%)
	BN	0.5 (1%)	-0.1 (-0.1%)	0.5 (1%)	-0.1 (-0.1%)
	D	1.2 (2%)	0.4 (0.7%)	1.2 (2.1%)	0.4 (0.7%)
	C	1.5 (2.6%)	0 (0%)	1.1 (1.8%)	-0.5 (-0.8%)
	All	0.9 (1.7%)	0 (0.1%)	0.8 (1.5%)	0 (-0.1%)
Jul	W	1.8 (3.2%)	0.1 (0.1%)	1.8 (3.3%)	0.1 (0.1%)
	AN	0.6 (1%)	-0.3 (-0.4%)	0.7 (1.3%)	-0.1 (-0.2%)
	BN	0.6 (1.1%)	0 (0%)	0.6 (1.1%)	0 (0%)
	D	0.9 (1.5%)	-0.1 (-0.2%)	0.9 (1.5%)	-0.1 (-0.2%)
	C	1.8 (2.9%)	-0.3 (-0.4%)	1.9 (3.1%)	-0.2 (-0.2%)
	All	1.2 (2.1%)	-0.1 (-0.1%)	1.3 (2.2%)	0 (-0.1%)

Alternative 4A_ELT: Trinity River at Douglas City					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	0.8 (1.3%)	-0.2 (-0.4%)	0.9 (1.5%)	-0.1 (-0.2%)
	AN	0.9 (1.6%)	-0.1 (-0.2%)	0.9 (1.5%)	-0.2 (-0.3%)
	BN	1.3 (2.2%)	-0.3 (-0.4%)	1.3 (2.2%)	-0.2 (-0.4%)
	D	1.6 (2.7%)	-0.1 (-0.2%)	1.5 (2.5%)	-0.2 (-0.4%)
	C	3.1 (5.1%)	-0.7 (-1%)	2 (3.3%)	-1.8 (-2.8%)
	All	1.4 (2.4%)	-0.3 (-0.4%)	1.3 (2.1%)	-0.4 (-0.7%)
Sep	W	1.1 (1.9%)	0 (0%)	1.1 (2%)	0 (0%)
	AN	0.9 (1.7%)	0 (-0.1%)	0.9 (1.6%)	-0.1 (-0.2%)
	BN	1.7 (3%)	-0.3 (-0.6%)	1.4 (2.5%)	-0.6 (-1.1%)
	D	2.1 (3.8%)	-0.1 (-0.1%)	1.7 (3.1%)	-0.4 (-0.8%)
	C	2.2 (3.7%)	-1.6 (-2.6%)	1.3 (2.2%)	-2.5 (-4%)
	All	1.5 (2.8%)	-0.3 (-0.6%)	1.3 (2.3%)	-0.6 (-1%)
Oct	W	1.4 (2.8%)	0 (0%)	1.4 (2.8%)	0 (0%)
	AN	1 (2%)	0.1 (0.1%)	1.2 (2.3%)	0.2 (0.4%)
	BN	1.5 (2.9%)	0.1 (0.2%)	1.3 (2.5%)	-0.1 (-0.2%)
	D	0.9 (1.7%)	0 (0.1%)	0.9 (1.8%)	0.1 (0.1%)
	C	1.2 (2.2%)	-0.3 (-0.6%)	1.4 (2.6%)	-0.1 (-0.2%)
	All	1.2 (2.4%)	0 (0%)	1.2 (2.4%)	0 (0%)
Nov	W	0.9 (2.1%)	-0.1 (-0.1%)	0.9 (2.1%)	-0.1 (-0.1%)
	AN	0.9 (2.1%)	0 (0%)	1.2 (2.8%)	0.3 (0.7%)
	BN	1 (2.3%)	0 (-0.1%)	1 (2.3%)	-0.1 (-0.2%)
	D	0.9 (2%)	-0.1 (-0.2%)	0.9 (2%)	-0.1 (-0.2%)
	C	0.8 (1.7%)	0 (-0.1%)	0.5 (1.2%)	-0.3 (-0.6%)
	All	0.9 (2%)	-0.1 (-0.1%)	0.9 (2%)	0 (-0.1%)
Dec	W	0.8 (1.9%)	0 (0%)	0.8 (2%)	0 (0%)
	AN	0.7 (1.8%)	-0.3 (-0.7%)	0.8 (1.9%)	-0.2 (-0.6%)
	BN	0.7 (1.7%)	-0.2 (-0.6%)	0.7 (1.7%)	-0.2 (-0.6%)
	D	0.7 (1.7%)	0.1 (0.2%)	0.6 (1.4%)	0 (-0.1%)
	C	0.7 (1.8%)	0 (0.1%)	0.8 (2%)	0.1 (0.3%)
	All	0.7 (1.8%)	-0.1 (-0.2%)	0.7 (1.8%)	-0.1 (-0.2%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.8 Trinity River below North Fork

Table F.1-51. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the Trinity River below North Fork, Year-Round

Alternative 4A_ELT: Trinity River below North Fork					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	40	40	40	40
	AN	38	39	39	39
	BN	38	38	39	39
	D	38	38	38	38
	C	38	39	39	39
	All	39	39	39	39
Feb	W	43	44	44	44
	AN	43	44	44	44
	BN	43	43	43	43
	D	43	43	43	43
	C	43	44	44	44
	All	43	44	44	44
Mar	W	46	46	46	46
	AN	46	47	47	47
	BN	46	47	47	47
	D	47	47	47	47
	C	48	48	48	48
	All	47	47	47	47
Apr	W	53	53	53	53
	AN	54	54	54	54
	BN	54	54	54	54
	D	54	54	54	54
	C	54	55	55	55
	All	53	54	54	54
May	W	50	51	51	51
	AN	50	51	51	51
	BN	51	52	52	52
	D	51	53	53	53
	C	54	56	56	56
	All	51	52	52	52
Jun	W	55	56	56	56
	AN	58	59	58	58
	BN	60	60	60	60
	D	62	62	63	63
	C	63	65	65	64
	All	59	60	60	60
Jul	W	63	64	64	64
	AN	63	64	64	64
	BN	65	65	65	65
	D	65	66	66	66
	C	68	69	69	69
	All	65	66	66	66

Alternative 4A_ELT: Trinity River below North Fork					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	65	66	66	66
	AN	64	65	65	65
	BN	65	66	66	66
	D	64	65	65	65
	C	65	68	67	67
	All	65	66	66	66
Sep	W	59	60	60	60
	AN	59	60	60	60
	BN	59	61	61	61
	D	58	60	60	60
	C	61	63	62	62
	All	59	61	61	60
Oct	W	53	54	54	54
	AN	53	54	54	54
	BN	54	55	55	55
	D	53	54	54	53
	C	54	55	55	55
	All	53	54	54	54
Nov	W	44	44	44	44
	AN	44	45	45	45
	BN	44	45	45	45
	D	44	44	44	44
	C	45	46	46	46
	All	44	45	45	45
Dec	W	41	41	41	42
	AN	40	41	41	41
	BN	39	40	40	40
	D	40	40	40	40
	C	38	39	39	39
	All	40	40	40	40

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Table F.1-52. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the Trinity River below North Fork, Year-Round

Alternative 4A_ELT: Trinity River below North Fork					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	0.6 (1.5%)	0 (0.1%)	0.6 (1.4%)	0 (0%)
	AN	0.5 (1.4%)	0.1 (0.3%)	0.6 (1.6%)	0.2 (0.4%)
	BN	0.5 (1.4%)	0.2 (0.4%)	0.5 (1.4%)	0.2 (0.5%)
	D	0.6 (1.6%)	0 (-0.1%)	0.5 (1.5%)	-0.1 (-0.3%)
	C	0.7 (1.8%)	0 (-0.1%)	0.7 (1.8%)	-0.1 (-0.1%)
	All	0.6 (1.5%)	0 (0.1%)	0.6 (1.5%)	0 (0.1%)
Feb	W	0.5 (1.2%)	0 (0%)	0.5 (1.3%)	0 (0%)
	AN	0.6 (1.3%)	0 (0%)	0.6 (1.3%)	0 (0%)
	BN	0.6 (1.4%)	0 (0%)	0.6 (1.4%)	0 (0%)
	D	0.6 (1.3%)	0 (0%)	0.5 (1.3%)	0 (0%)
	C	0.7 (1.6%)	0 (0%)	0.7 (1.7%)	0 (0%)
	All	0.6 (1.3%)	0 (0%)	0.6 (1.4%)	0 (0%)
Mar	W	0.2 (0.5%)	0 (0%)	0.2 (0.5%)	0 (0%)
	AN	0.2 (0.4%)	0 (0%)	0.2 (0.4%)	0 (0%)
	BN	0.3 (0.5%)	0 (0%)	0.3 (0.5%)	0 (0%)
	D	0.2 (0.5%)	0 (0%)	0.3 (0.5%)	0 (0.1%)
	C	0.4 (0.9%)	0 (0%)	0.5 (0.9%)	0 (0%)
	All	0.3 (0.5%)	0 (0%)	0.3 (0.6%)	0 (0%)
Apr	W	0.3 (0.6%)	0 (-0.1%)	0.3 (0.6%)	-0.1 (-0.1%)
	AN	0.4 (0.8%)	0.2 (0.3%)	0.4 (0.8%)	0.2 (0.3%)
	BN	0.3 (0.6%)	-0.1 (-0.2%)	0.3 (0.5%)	-0.1 (-0.2%)
	D	0.4 (0.8%)	0 (-0.1%)	0.4 (0.8%)	0 (-0.1%)
	C	0.5 (1%)	0 (0%)	0.5 (1%)	0 (0%)
	All	0.4 (0.7%)	0 (0%)	0.4 (0.7%)	0 (0%)
May	W	1.1 (2.1%)	0 (0%)	1.1 (2.1%)	0 (0%)
	AN	1 (2%)	0 (0%)	1 (1.9%)	0 (0%)
	BN	1.2 (2.3%)	0 (0.1%)	1.2 (2.3%)	0 (0.1%)
	D	1.2 (2.4%)	0 (0.1%)	1.2 (2.4%)	0 (0.1%)
	C	1.6 (2.9%)	-0.1 (-0.1%)	1.5 (2.9%)	-0.1 (-0.2%)
	All	1.2 (2.3%)	0 (0%)	1.2 (2.3%)	0 (0%)
Jun	W	0.6 (1%)	0 (0%)	0.6 (1%)	0 (0%)
	AN	0.7 (1.3%)	-0.1 (-0.2%)	0.5 (0.9%)	-0.3 (-0.6%)
	BN	0.5 (0.9%)	-0.1 (-0.1%)	0.5 (0.9%)	-0.1 (-0.1%)
	D	1.1 (1.7%)	0.2 (0.4%)	1.1 (1.7%)	0.2 (0.4%)
	C	1.2 (1.9%)	0 (0%)	1 (1.5%)	-0.3 (-0.4%)
	All	0.8 (1.3%)	0 (0%)	0.7 (1.2%)	0 (-0.1%)
Jul	W	1.6 (2.5%)	0 (0%)	1.6 (2.6%)	0 (0.1%)
	AN	0.6 (1%)	-0.2 (-0.2%)	0.7 (1.1%)	-0.1 (-0.1%)
	BN	0.5 (0.8%)	0 (0%)	0.5 (0.8%)	0 (0%)
	D	0.9 (1.3%)	-0.1 (-0.1%)	0.8 (1.3%)	-0.1 (-0.1%)
	C	1.3 (1.9%)	-0.1 (-0.2%)	1.3 (2%)	-0.1 (-0.1%)
	All	1.1 (1.7%)	0 (-0.1%)	1.1 (1.7%)	0 (0%)

Alternative 4A_ELT: Trinity River below North Fork					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	1 (1.5%)	-0.1 (-0.2%)	1 (1.6%)	-0.1 (-0.1%)
	AN	1.1 (1.6%)	-0.1 (-0.1%)	1 (1.6%)	-0.1 (-0.1%)
	BN	1.2 (1.9%)	-0.1 (-0.2%)	1.2 (1.9%)	-0.1 (-0.2%)
	D	1.4 (2.2%)	-0.1 (-0.1%)	1.4 (2.2%)	-0.1 (-0.2%)
	C	2 (3.1%)	-0.3 (-0.5%)	1.6 (2.5%)	-0.8 (-1.1%)
	All	1.3 (2%)	-0.1 (-0.2%)	1.2 (1.9%)	-0.2 (-0.3%)
Sep	W	1.2 (2%)	0 (0%)	1.2 (2%)	0 (0%)
	AN	1.1 (1.9%)	0 (-0.1%)	1.1 (1.9%)	0 (-0.1%)
	BN	1.5 (2.5%)	-0.1 (-0.2%)	1.3 (2.2%)	-0.3 (-0.5%)
	D	1.7 (2.9%)	0 (-0.1%)	1.5 (2.6%)	-0.2 (-0.4%)
	C	1.7 (2.8%)	-0.7 (-1.1%)	1.2 (2.1%)	-1.1 (-1.8%)
	All	1.4 (2.4%)	-0.1 (-0.2%)	1.3 (2.2%)	-0.3 (-0.4%)
Oct	W	1.1 (2%)	0 (0%)	1.1 (2%)	0 (0%)
	AN	1 (1.8%)	0 (0%)	0.9 (1.7%)	-0.1 (-0.1%)
	BN	1.1 (2.1%)	0 (0%)	1.1 (2%)	-0.1 (-0.1%)
	D	1 (1.8%)	0 (0%)	0.9 (1.7%)	-0.1 (-0.1%)
	C	1 (1.9%)	-0.2 (-0.3%)	1.1 (2.1%)	-0.1 (-0.2%)
	All	1 (2%)	0 (0%)	1 (1.9%)	-0.1 (-0.1%)
Nov	W	0.7 (1.7%)	0 (0%)	0.7 (1.7%)	0 (-0.1%)
	AN	0.7 (1.5%)	0 (0%)	0.8 (1.9%)	0.2 (0.4%)
	BN	0.9 (2%)	0 (0%)	0.9 (1.9%)	0 (-0.1%)
	D	0.7 (1.6%)	0 (0%)	0.7 (1.6%)	0 (0%)
	C	0.7 (1.6%)	0 (-0.1%)	0.6 (1.4%)	-0.1 (-0.3%)
	All	0.7 (1.7%)	0 (0%)	0.8 (1.7%)	0 (0%)
Dec	W	0.6 (1.5%)	0 (0.1%)	0.6 (1.5%)	0.1 (0.1%)
	AN	0.5 (1.4%)	-0.1 (-0.2%)	0.5 (1.4%)	-0.1 (-0.2%)
	BN	0.6 (1.6%)	-0.1 (-0.3%)	0.6 (1.6%)	-0.1 (-0.3%)
	D	0.6 (1.5%)	0.1 (0.1%)	0.5 (1.4%)	0 (0%)
	C	0.6 (1.7%)	0 (0%)	0.7 (1.8%)	0.1 (0.1%)
	All	0.6 (1.5%)	0 (0%)	0.6 (1.5%)	0 (0%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.9 Feather River at Fish Barrier Dam

Table F.1-53. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the Feather River at Fish Barrier Dam, Year-Round

Alternative 4A_ELT: Feather River at Fish Barrier Dam					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	48	49	49	49
	AN	47	49	49	49
	BN	48	49	49	49
	D	47	49	49	49
	C	48	49	50	49
	All	48	49	49	49
Feb	W	48	49	49	49
	AN	48	49	49	50
	BN	48	50	50	50
	D	49	50	50	50
	C	49	51	51	51
	All	48	50	50	50
Mar	W	49	50	50	50
	AN	49	50	50	50
	BN	50	51	51	51
	D	51	52	52	52
	C	51	52	53	53
	All	50	51	51	51
Apr	W	51	51	51	51
	AN	51	52	52	51
	BN	52	53	53	52
	D	52	53	53	53
	C	52	53	53	53
	All	51	52	52	52
May	W	55	55	55	55
	AN	56	56	56	55
	BN	56	56	56	56
	D	56	56	56	56
	C	56	56	56	56
	All	55	56	56	55
Jun	W	57	58	57	58
	AN	58	58	58	58
	BN	58	58	57	58
	D	58	58	58	58
	C	58	58	58	58
	All	58	58	58	58
Jul	W	61	61	61	62
	AN	61	61	61	61
	BN	61	61	61	61
	D	61	61	61	62
	C	61	62	63	62
	All	61	61	61	62

Alternative 4A_ELT: Feather River at Fish Barrier Dam					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	61	61	61	62
	AN	60	60	60	61
	BN	60	60	60	61
	D	60	61	61	61
	C	62	63	62	61
	All	61	61	61	61
Sep	W	56	55	57	57
	AN	56	55	56	57
	BN	56	56	57	58
	D	56	57	57	57
	C	58	59	59	56
	All	56	56	57	57
Oct	W	54	54	54	55
	AN	55	55	55	55
	BN	54	55	55	56
	D	54	55	54	56
	C	54	55	54	54
	All	54	55	55	55
Nov	W	52	53	53	54
	AN	53	54	54	54
	BN	53	54	53	54
	D	52	54	54	54
	C	53	54	53	53
	All	53	54	53	54
Dec	W	49	51	50	51
	AN	49	51	51	51
	BN	49	51	50	51
	D	49	51	51	51
	C	49	51	51	50
	All	49	51	51	51

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Table F.1-54. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the Feather River at Fish Barrier Dam, Year-Round

Alternative 4A_ELT: Feather River at Fish Barrier Dam					
Month	Water Year Type	EXISTING CONDITIONS vs. H1_ELT	NAA_ELT vs. H1_ELT	EXISTING CONDITIONS vs. H2_ELT	NAA_ELT vs. H2_ELT
Jan	W	1.3 (2.7%)	0 (0%)	1.4 (2.9%)	0.1 (0.2%)
	AN	1.3 (2.8%)	-0.3 (-0.6%)	1.8 (3.7%)	0.2 (0.3%)
	BN	1.1 (2.3%)	-0.3 (-0.6%)	1.4 (2.8%)	0 (-0.1%)
	D	1.5 (3.2%)	-0.2 (-0.5%)	1.4 (2.9%)	-0.4 (-0.8%)
	C	2.1 (4.3%)	0.3 (0.7%)	1.8 (3.8%)	0.1 (0.2%)
	All	1.4 (3%)	-0.1 (-0.2%)	1.5 (3.1%)	0 (-0.1%)
Feb	W	1.2 (2.5%)	0.1 (0.2%)	1.2 (2.6%)	0.1 (0.3%)
	AN	1.4 (2.9%)	0 (0.1%)	1.5 (3.2%)	0.2 (0.4%)
	BN	1.5 (3%)	0 (0%)	1.6 (3.3%)	0.1 (0.2%)
	D	1.6 (3.2%)	0.1 (0.2%)	1.4 (2.9%)	-0.1 (-0.1%)
	C	1.8 (3.7%)	0.1 (0.1%)	1.8 (3.6%)	0 (0%)
	All	1.4 (3%)	0.1 (0.1%)	1.5 (3%)	0.1 (0.2%)
Mar	W	1.1 (2.2%)	0.1 (0.2%)	1.1 (2.3%)	0.1 (0.3%)
	AN	0.9 (1.9%)	0 (-0.1%)	1.2 (2.4%)	0.2 (0.5%)
	BN	1.5 (3%)	-0.1 (-0.3%)	1.5 (2.9%)	-0.2 (-0.4%)
	D	1.1 (2.1%)	-0.2 (-0.4%)	0.9 (1.8%)	-0.4 (-0.8%)
	C	1.4 (2.8%)	0.2 (0.5%)	1.7 (3.2%)	0.5 (0.9%)
	All	1.2 (2.4%)	0 (0%)	1.2 (2.4%)	0 (0%)
Apr	W	0.6 (1.2%)	0.1 (0.1%)	0.4 (0.7%)	-0.2 (-0.3%)
	AN	0.6 (1.2%)	0.1 (0.1%)	-0.1 (-0.2%)	-0.7 (-1.3%)
	BN	0.5 (0.9%)	-0.1 (-0.1%)	-0.1 (-0.2%)	-0.7 (-1.2%)
	D	0.6 (1.2%)	0 (-0.1%)	0.7 (1.3%)	0 (0%)
	C	1 (2%)	-0.1 (-0.2%)	1.2 (2.4%)	0.1 (0.2%)
	All	0.7 (1.3%)	0 (0%)	0.4 (0.8%)	-0.2 (-0.5%)
May	W	0.3 (0.6%)	0 (0%)	-0.1 (-0.3%)	-0.5 (-0.8%)
	AN	0.2 (0.4%)	-0.2 (-0.3%)	-0.5 (-1%)	-0.9 (-1.6%)
	BN	0.2 (0.4%)	-0.1 (-0.1%)	-0.4 (-0.8%)	-0.7 (-1.2%)
	D	0.2 (0.3%)	0 (0%)	0.1 (0.3%)	0 (-0.1%)
	C	0.5 (0.8%)	0.2 (0.3%)	0.4 (0.8%)	0.1 (0.2%)
	All	0.3 (0.5%)	0 (0%)	-0.1 (-0.2%)	-0.4 (-0.7%)
Jun	W	0.1 (0.2%)	-0.4 (-0.7%)	0.8 (1.4%)	0.2 (0.4%)
	AN	-0.2 (-0.3%)	-0.5 (-0.8%)	0.2 (0.4%)	-0.1 (-0.1%)
	BN	-0.7 (-1.2%)	-0.8 (-1.5%)	0.1 (0.1%)	-0.1 (-0.1%)
	D	0 (-0.1%)	-0.2 (-0.4%)	0 (0.1%)	-0.1 (-0.2%)
	C	0.4 (0.6%)	0.1 (0.1%)	0.5 (0.8%)	0.1 (0.2%)
	All	-0.1 (-0.1%)	-0.4 (-0.7%)	0.4 (0.6%)	0 (0.1%)
Jul	W	0.1 (0.2%)	0.1 (0.1%)	0.4 (0.7%)	0.4 (0.7%)
	AN	0.1 (0.1%)	0 (0%)	0.6 (1%)	0.5 (0.9%)
	BN	0.3 (0.5%)	0.1 (0.2%)	0.5 (0.9%)	0.3 (0.6%)
	D	0.5 (0.8%)	0.2 (0.4%)	0.8 (1.3%)	0.5 (0.8%)
	C	1.9 (3.1%)	1.1 (1.7%)	1.3 (2.2%)	0.5 (0.8%)
	All	0.5 (0.8%)	0.2 (0.4%)	0.7 (1.1%)	0.4 (0.7%)

Alternative 4A_ELT: Feather River at Fish Barrier Dam					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	0 (0%)	0.4 (0.6%)	0.7 (1.1%)	1 (1.7%)
	AN	0.2 (0.3%)	0.2 (0.3%)	0.9 (1.4%)	0.9 (1.5%)
	BN	0.4 (0.6%)	0.1 (0.2%)	1 (1.6%)	0.7 (1.1%)
	D	0.9 (1.4%)	0.1 (0.1%)	1.1 (1.9%)	0.3 (0.5%)
	C	0.3 (0.5%)	-0.9 (-1.4%)	-0.4 (-0.6%)	-1.6 (-2.5%)
	All	0.3 (0.5%)	0 (0.1%)	0.7 (1.1%)	0.4 (0.7%)
Sep	W	0.8 (1.4%)	2.1 (3.9%)	1 (1.8%)	2.3 (4.2%)
	AN	0.6 (1.1%)	1.7 (3.2%)	1.7 (3%)	2.8 (5.2%)
	BN	0.8 (1.4%)	0.8 (1.5%)	2.6 (4.6%)	2.6 (4.7%)
	D	1 (1.8%)	-0.5 (-0.9%)	1.2 (2.2%)	-0.3 (-0.5%)
	C	0.6 (1%)	-0.2 (-0.4%)	-1.7 (-2.9%)	-2.4 (-4.2%)
	All	0.8 (1.4%)	0.9 (1.6%)	1 (1.8%)	1.2 (2.1%)
Oct	W	0.5 (1%)	-0.1 (-0.3%)	1.5 (2.8%)	0.8 (1.5%)
	AN	0.2 (0.4%)	-0.3 (-0.5%)	-0.1 (-0.1%)	-0.6 (-1%)
	BN	0.8 (1.5%)	-0.3 (-0.5%)	1.6 (3%)	0.6 (1%)
	D	0.7 (1.3%)	-1 (-1.7%)	2.2 (4%)	0.5 (0.9%)
	C	0.2 (0.4%)	-0.9 (-1.6%)	-0.3 (-0.6%)	-1.4 (-2.6%)
	All	0.5 (1%)	-0.5 (-0.9%)	1.2 (2.2%)	0.2 (0.3%)
Nov	W	0.7 (1.3%)	-0.4 (-0.7%)	1.4 (2.7%)	0.4 (0.7%)
	AN	1.1 (2.1%)	-0.1 (-0.2%)	0.8 (1.6%)	-0.4 (-0.7%)
	BN	0.4 (0.8%)	-0.5 (-1%)	1.4 (2.6%)	0.4 (0.8%)
	D	1.2 (2.2%)	-0.7 (-1.4%)	1.9 (3.6%)	0 (-0.1%)
	C	0.7 (1.3%)	-0.4 (-0.8%)	0 (0.1%)	-1 (-1.9%)
	All	0.8 (1.5%)	-0.5 (-0.8%)	1.2 (2.3%)	0 (0%)
Dec	W	1.5 (3%)	-0.4 (-0.8%)	1.7 (3.5%)	-0.1 (-0.3%)
	AN	1.6 (3.2%)	-0.4 (-0.9%)	1.9 (3.9%)	-0.1 (-0.2%)
	BN	1.7 (3.4%)	-0.4 (-0.8%)	1.9 (3.8%)	-0.2 (-0.4%)
	D	1.7 (3.6%)	-0.7 (-1.4%)	1.8 (3.7%)	-0.6 (-1.2%)
	C	1.9 (3.8%)	0.2 (0.5%)	0.7 (1.5%)	-0.9 (-1.7%)
	All	1.6 (3.3%)	-0.4 (-0.7%)	1.7 (3.4%)	-0.4 (-0.7%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.10 Feather River Low-Flow Channel (above Thermalito Afterbay)

Table F.1-55. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the Feather River Low-Flow Channel (above Thermalito Afterbay), Year-Round

Alternative 4A_ELT: Feather River Low-Flow Channel (above Thermalito Afterbay)					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	47	49	49	49
	AN	47	49	48	49
	BN	47	49	48	49
	D	47	49	48	48
	C	47	49	49	49
	All	47	49	49	49
Feb	W	49	50	50	50
	AN	49	50	50	50
	BN	49	50	50	50
	D	49	51	51	51
	C	50	51	52	52
	All	49	50	50	50
Mar	W	50	51	52	52
	AN	51	52	52	52
	BN	51	53	53	53
	D	52	54	53	53
	C	53	54	54	54
	All	51	53	53	53
Apr	W	53	54	54	54
	AN	55	55	55	55
	BN	55	56	56	55
	D	55	56	56	56
	C	55	56	56	56
	All	55	55	55	55
May	W	59	60	60	60
	AN	60	61	61	61
	BN	60	61	61	60
	D	60	61	61	61
	C	60	61	61	61
	All	60	61	61	60
Jun	W	63	64	64	64
	AN	64	65	65	65
	BN	64	65	64	65
	D	64	65	65	65
	C	63	64	64	64
	All	64	65	64	65

Alternative 4A_ELT: Feather River Low-Flow Channel (above Thermalito Afterbay)					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jul	W	68	68	68	69
	AN	67	68	68	68
	BN	67	68	68	68
	D	67	68	68	68
	C	67	69	69	69
	All	67	68	68	68
Aug	W	66	67	67	67
	AN	65	66	66	67
	BN	66	67	67	67
	D	65	67	67	67
	C	67	68	68	67
	All	66	67	67	67
Sep	W	60	60	61	61
	AN	60	60	61	62
	BN	60	61	61	63
	D	60	61	61	61
	C	61	62	62	61
	All	60	61	61	61
Oct	W	55	56	56	57
	AN	57	57	57	57
	BN	56	57	57	58
	D	56	57	56	58
	C	56	57	57	56
	All	56	57	57	57
Nov	W	52	53	53	54
	AN	53	55	55	54
	BN	53	54	53	54
	D	53	54	54	54
	C	53	54	54	53
	All	53	54	54	54
Dec	W	48	50	50	50
	AN	49	50	50	50
	BN	48	50	50	50
	D	48	50	50	50
	C	48	50	50	49
	All	48	50	50	50

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Table F.1-56. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the Feather River Low-Flow Channel (above Thermalito Afterbay), Year-Round

Alternative 4A_ELT: Feather River Low-Flow Channel (above Thermalito Afterbay)					
Month	Water Year Type	EXISTING CONDITIONS vs. H1_ELT	NAA_ELT vs. H1_ELT	EXISTING CONDITIONS vs. H2_ELT	NAA_ELT vs. H2_ELT
Jan	W	1.3 (2.8%)	0 (0%)	1.4 (2.9%)	0.1 (0.1%)
	AN	1.4 (2.9%)	-0.2 (-0.4%)	1.7 (3.7%)	0.1 (0.3%)
	BN	1.1 (2.4%)	-0.2 (-0.5%)	1.3 (2.8%)	0 (-0.1%)
	D	1.5 (3.1%)	-0.2 (-0.4%)	1.3 (2.9%)	-0.3 (-0.7%)
	C	1.9 (4.1%)	0.3 (0.5%)	1.7 (3.6%)	0.1 (0.1%)
	All	1.4 (3%)	-0.1 (-0.1%)	1.5 (3.1%)	0 (-0.1%)
Feb	W	1.3 (2.6%)	0.1 (0.2%)	1.3 (2.7%)	0.1 (0.2%)
	AN	1.4 (2.8%)	0 (0.1%)	1.5 (3.1%)	0.2 (0.4%)
	BN	1.5 (3%)	0 (0%)	1.6 (3.2%)	0.1 (0.2%)
	D	1.5 (3.1%)	0.1 (0.1%)	1.4 (2.8%)	-0.1 (-0.1%)
	C	1.7 (3.5%)	0.1 (0.1%)	1.7 (3.4%)	0 (0%)
	All	1.4 (2.9%)	0.1 (0.1%)	1.5 (3%)	0.1 (0.1%)
Mar	W	1.1 (2.1%)	0.1 (0.2%)	1.1 (2.2%)	0.1 (0.2%)
	AN	0.9 (1.8%)	0 (0%)	1.1 (2.2%)	0.2 (0.4%)
	BN	1.4 (2.7%)	-0.1 (-0.2%)	1.3 (2.6%)	-0.1 (-0.3%)
	D	1.1 (2.1%)	-0.2 (-0.3%)	1 (1.8%)	-0.3 (-0.6%)
	C	1.3 (2.6%)	0.1 (0.3%)	1.5 (2.9%)	0.4 (0.7%)
	All	1.1 (2.2%)	0 (0%)	1.2 (2.3%)	0 (0%)
Apr	W	0.7 (1.3%)	0.1 (0.1%)	0.5 (0.9%)	-0.1 (-0.2%)
	AN	0.7 (1.3%)	0.1 (0.1%)	0.2 (0.3%)	-0.5 (-0.9%)
	BN	0.6 (1%)	0 (-0.1%)	0.1 (0.2%)	-0.5 (-0.8%)
	D	0.8 (1.5%)	0 (-0.1%)	0.8 (1.5%)	0 (-0.1%)
	C	1 (1.8%)	-0.1 (-0.2%)	1.2 (2.1%)	0.1 (0.1%)
	All	0.7 (1.4%)	0 (0%)	0.6 (1%)	-0.2 (-0.3%)
May	W	0.8 (1.4%)	0 (0%)	0.5 (0.8%)	-0.3 (-0.5%)
	AN	0.7 (1.2%)	-0.1 (-0.2%)	0.2 (0.3%)	-0.6 (-1%)
	BN	0.7 (1.2%)	0 (-0.1%)	0.3 (0.5%)	-0.5 (-0.8%)
	D	0.7 (1.2%)	0 (0%)	0.7 (1.2%)	0 (0%)
	C	0.9 (1.5%)	0.1 (0.2%)	0.9 (1.5%)	0.1 (0.1%)
	All	0.8 (1.3%)	0 (0%)	0.5 (0.9%)	-0.3 (-0.4%)
Jun	W	0.7 (1.2%)	-0.3 (-0.4%)	1.2 (1.9%)	0.2 (0.2%)
	AN	0.6 (1%)	-0.3 (-0.5%)	0.9 (1.4%)	-0.1 (-0.1%)
	BN	0.3 (0.5%)	-0.5 (-0.8%)	0.8 (1.3%)	-0.1 (-0.1%)
	D	0.7 (1.2%)	-0.1 (-0.2%)	0.8 (1.3%)	-0.1 (-0.1%)
	C	0.9 (1.4%)	0.1 (0.1%)	1 (1.5%)	0.1 (0.2%)
	All	0.7 (1.1%)	-0.2 (-0.4%)	1 (1.5%)	0 (0%)
Jul	W	0.8 (1.3%)	0 (0%)	1.1 (1.6%)	0.3 (0.4%)
	AN	0.9 (1.3%)	0 (0%)	1.2 (1.8%)	0.3 (0.5%)
	BN	1 (1.5%)	0 (0.1%)	1.1 (1.7%)	0.2 (0.3%)
	D	1.1 (1.7%)	0.2 (0.2%)	1.3 (1.9%)	0.3 (0.5%)
	C	2.1 (3.1%)	0.7 (1%)	1.8 (2.6%)	0.3 (0.4%)
	All	1.1 (1.7%)	0.2 (0.2%)	1.2 (1.9%)	0.3 (0.4%)

Alternative 4A_ELT: Feather River Low-Flow Channel (above Thermalito Afterbay)					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	0.8 (1.2%)	0.3 (0.4%)	1.2 (1.8%)	0.7 (1%)
	AN	0.8 (1.3%)	0.1 (0.2%)	1.3 (2%)	0.6 (0.9%)
	BN	1 (1.6%)	0.1 (0.1%)	1.4 (2.2%)	0.4 (0.7%)
	D	1.3 (2%)	0 (0.1%)	1.5 (2.3%)	0.2 (0.3%)
	C	1 (1.5%)	-0.6 (-0.9%)	0.5 (0.8%)	-1 (-1.5%)
	All	1 (1.5%)	0 (0%)	1.2 (1.9%)	0.3 (0.4%)
Sep	W	1.1 (1.8%)	1.6 (2.6%)	1.2 (2%)	1.7 (2.8%)
	AN	0.9 (1.6%)	1.3 (2.2%)	1.7 (2.9%)	2.1 (3.5%)
	BN	1 (1.7%)	0.6 (1%)	2.4 (3.9%)	1.9 (3.2%)
	D	1.3 (2.1%)	-0.4 (-0.6%)	1.4 (2.4%)	-0.2 (-0.3%)
	C	0.9 (1.4%)	-0.1 (-0.2%)	-0.8 (-1.3%)	-1.8 (-2.9%)
	All	1.1 (1.8%)	0.7 (1.1%)	1.2 (2.1%)	0.8 (1.4%)
Oct	W	0.7 (1.3%)	-0.1 (-0.2%)	1.5 (2.7%)	0.6 (1.2%)
	AN	0.5 (0.9%)	-0.2 (-0.4%)	0.3 (0.5%)	-0.4 (-0.8%)
	BN	1 (1.8%)	-0.2 (-0.4%)	1.6 (2.9%)	0.4 (0.7%)
	D	0.9 (1.6%)	-0.8 (-1.3%)	2 (3.7%)	0.4 (0.7%)
	C	0.5 (0.9%)	-0.7 (-1.2%)	0.1 (0.2%)	-1.1 (-1.9%)
	All	0.7 (1.3%)	-0.4 (-0.7%)	1.3 (2.3%)	0.1 (0.3%)
Nov	W	0.8 (1.5%)	-0.3 (-0.6%)	1.4 (2.7%)	0.3 (0.6%)
	AN	1.2 (2.2%)	-0.1 (-0.1%)	0.9 (1.7%)	-0.3 (-0.6%)
	BN	0.6 (1.1%)	-0.4 (-0.8%)	1.4 (2.6%)	0.4 (0.7%)
	D	1.2 (2.2%)	-0.6 (-1.2%)	1.8 (3.4%)	0 (0%)
	C	0.8 (1.5%)	-0.3 (-0.6%)	0.3 (0.5%)	-0.9 (-1.6%)
	All	0.9 (1.7%)	-0.4 (-0.7%)	1.2 (2.3%)	0 (0%)
Dec	W	1.4 (3%)	-0.4 (-0.7%)	1.7 (3.5%)	-0.1 (-0.2%)
	AN	1.5 (3%)	-0.4 (-0.7%)	1.8 (3.7%)	-0.1 (-0.1%)
	BN	1.6 (3.2%)	-0.3 (-0.7%)	1.7 (3.6%)	-0.2 (-0.3%)
	D	1.6 (3.4%)	-0.6 (-1.2%)	1.7 (3.6%)	-0.5 (-1%)
	C	1.7 (3.6%)	0.2 (0.4%)	0.8 (1.7%)	-0.7 (-1.5%)
	All	1.5 (3.2%)	-0.3 (-0.7%)	1.6 (3.3%)	-0.3 (-0.6%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.11 Feather River High-Flow Channel (below Thermalito Afterbay)

Table F.1-57. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the Feather River High-Flow Channel (below Thermalito Afterbay), Year-Round

Alternative 4A_ELT: Feather River High-Flow Channel (below Thermalito Afterbay)					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	47	48	48	49
	AN	47	48	48	48
	BN	46	48	47	48
	D	46	47	47	47
	C	46	48	48	48
	All	47	48	48	48
Feb	W	49	50	50	50
	AN	49	51	51	51
	BN	49	51	51	51
	D	50	51	51	51
	C	51	52	52	52
	All	50	51	51	51
Mar	W	51	52	52	52
	AN	52	53	53	53
	BN	53	55	55	55
	D	54	55	56	55
	C	54	55	55	55
	All	53	54	54	54
Apr	W	55	56	56	55
	AN	57	58	58	57
	BN	58	58	58	56
	D	57	58	59	58
	C	57	58	58	58
	All	57	57	57	57
May	W	61	62	62	61
	AN	63	64	63	62
	BN	63	64	64	63
	D	63	64	64	64
	C	63	65	65	65
	All	62	63	63	63
Jun	W	66	67	66	67
	AN	67	69	67	68
	BN	67	69	66	68
	D	68	69	68	69
	C	68	69	69	69
	All	67	68	67	68

Alternative 4A_ELT: Feather River High-Flow Channel (below Thermalito Afterbay)					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jul	W	70	70	70	71
	AN	68	68	68	70
	BN	68	69	70	70
	D	68	69	70	71
	C	70	72	74	74
	All	69	70	70	71
Aug	W	70	70	70	71
	AN	67	68	69	70
	BN	68	69	70	71
	D	67	69	70	71
	C	70	72	71	72
	All	69	70	70	71
Sep	W	64	62	64	64
	AN	64	62	64	65
	BN	65	66	65	65
	D	64	65	65	64
	C	64	66	66	66
	All	64	64	65	65
Oct	W	58	60	60	60
	AN	60	61	61	60
	BN	59	61	61	61
	D	58	60	60	60
	C	59	60	60	60
	All	59	60	60	60
Nov	W	53	54	54	54
	AN	54	55	55	55
	BN	53	54	54	54
	D	53	54	54	54
	C	53	55	55	54
	All	53	54	54	54
Dec	W	48	49	49	49
	AN	48	49	49	49
	BN	47	48	48	48
	D	47	49	48	48
	C	47	48	48	47
	All	47	49	49	49

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Table F.1-58. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the Feather River High-Flow Channel (below Thermalito Afterbay), Year-Round

Alternative 4A_ELT: Feather River High-Flow Channel (below Thermalito Afterbay)					
Month	Water Year Type	EXISTING CONDITIONS vs. H1_ELT	NAA_ELT vs. H1_ELT	EXISTING CONDITIONS vs. H2_ELT	NAA_ELT vs. H2_ELT
Jan	W	1.3 (2.7%)	0 (0%)	1.4 (2.9%)	0.1 (0.2%)
	AN	1.3 (2.8%)	0 (-0.1%)	1.5 (3.2%)	0.1 (0.3%)
	BN	1 (2.3%)	-0.3 (-0.6%)	1.6 (3.4%)	0.3 (0.5%)
	D	1.3 (2.8%)	0 (0%)	1.4 (3.2%)	0.1 (0.3%)
	C	1.6 (3.6%)	0.1 (0.2%)	1.4 (3.1%)	-0.1 (-0.3%)
	All	1.3 (2.8%)	0 (-0.1%)	1.4 (3.1%)	0.1 (0.2%)
Feb	W	1.3 (2.6%)	0.1 (0.1%)	1.3 (2.7%)	0.2 (0.3%)
	AN	1.4 (2.8%)	-0.2 (-0.5%)	1.8 (3.6%)	0.2 (0.4%)
	BN	1.6 (3.2%)	0 (0%)	1.5 (3.1%)	0 (-0.1%)
	D	1.5 (2.9%)	0.1 (0.1%)	1.4 (2.8%)	0 (0%)
	C	1.7 (3.3%)	0.1 (0.3%)	1.6 (3.1%)	0.1 (0.1%)
	All	1.4 (2.9%)	0 (0%)	1.5 (3%)	0.1 (0.1%)
Mar	W	0.9 (1.8%)	0 (0%)	1 (1.9%)	0.1 (0.2%)
	AN	0.2 (0.5%)	-0.1 (-0.2%)	0.4 (0.8%)	0.1 (0.1%)
	BN	1.4 (2.6%)	0 (0.1%)	1.4 (2.6%)	0 (0.1%)
	D	1.4 (2.5%)	0.2 (0.3%)	1.1 (2%)	-0.1 (-0.2%)
	C	1.5 (2.8%)	0.1 (0.2%)	1.5 (2.8%)	0.1 (0.2%)
	All	1.1 (2.1%)	0 (0.1%)	1.1 (2%)	0 (0.1%)
Apr	W	0.7 (1.3%)	0 (0%)	-0.2 (-0.4%)	-0.9 (-1.6%)
	AN	0.9 (1.6%)	0 (0.1%)	-0.5 (-0.9%)	-1.3 (-2.3%)
	BN	0.5 (0.9%)	0 (0%)	-1.2 (-2%)	-1.6 (-2.8%)
	D	1.3 (2.3%)	0.3 (0.5%)	1 (1.8%)	0 (0%)
	C	1.3 (2.3%)	0.2 (0.3%)	1.3 (2.4%)	0.2 (0.4%)
	All	0.9 (1.7%)	0.1 (0.2%)	0.1 (0.2%)	-0.7 (-1.3%)
May	W	1.3 (2.2%)	0 (0%)	0.2 (0.3%)	-1.2 (-1.9%)
	AN	0.6 (1%)	-0.3 (-0.4%)	-0.6 (-1%)	-1.5 (-2.4%)
	BN	1.1 (1.7%)	-0.1 (-0.1%)	-0.1 (-0.2%)	-1.3 (-2%)
	D	1.4 (2.2%)	-0.1 (-0.2%)	1.4 (2.2%)	-0.1 (-0.2%)
	C	1.4 (2.3%)	0 (-0.1%)	1.4 (2.3%)	-0.1 (-0.1%)
	All	1.2 (2%)	-0.1 (-0.1%)	0.5 (0.8%)	-0.8 (-1.3%)
Jun	W	0.5 (0.8%)	-1.2 (-1.7%)	1.2 (1.9%)	-0.4 (-0.7%)
	AN	-0.5 (-0.8%)	-2 (-2.9%)	0.7 (1.1%)	-0.7 (-1.1%)
	BN	-1.4 (-2.1%)	-2.6 (-3.9%)	0.7 (1.1%)	-0.5 (-0.7%)
	D	0.4 (0.6%)	-1.1 (-1.5%)	0.7 (1.1%)	-0.7 (-1%)
	C	1.6 (2.4%)	0 (0%)	1.8 (2.7%)	0.2 (0.3%)
	All	0.2 (0.3%)	-1.3 (-2%)	1 (1.6%)	-0.5 (-0.7%)
Jul	W	0.3 (0.5%)	0.3 (0.4%)	1.7 (2.5%)	1.7 (2.4%)
	AN	0.5 (0.7%)	-0.1 (-0.1%)	2.4 (3.5%)	1.8 (2.7%)
	BN	1.5 (2.2%)	0.5 (0.7%)	2.3 (3.3%)	1.2 (1.8%)
	D	2 (2.9%)	0.7 (1%)	2.7 (4%)	1.4 (2.1%)
	C	4.6 (6.6%)	2.6 (3.7%)	4.3 (6.1%)	2.3 (3.2%)
	All	1.6 (2.3%)	0.7 (1%)	2.5 (3.7%)	1.7 (2.4%)

Alternative 4A_ELT: Feather River High-Flow Channel (below Thermalito Afterbay)					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	0.4 (0.6%)	0.4 (0.5%)	1.2 (1.8%)	1.2 (1.7%)
	AN	1.2 (1.8%)	0.5 (0.8%)	2.3 (3.4%)	1.6 (2.4%)
	BN	1.5 (2.2%)	0.2 (0.3%)	2.4 (3.6%)	1.2 (1.7%)
	D	3.3 (4.9%)	1.3 (1.8%)	3.7 (5.4%)	1.6 (2.3%)
	C	1.4 (2.1%)	-0.7 (-1%)	2.4 (3.4%)	0.2 (0.3%)
	All	1.5 (2.2%)	0.4 (0.6%)	2.3 (3.3%)	1.2 (1.7%)
Sep	W	0.4 (0.6%)	2.6 (4.2%)	0.4 (0.7%)	2.6 (4.2%)
	AN	-0.4 (-0.6%)	1.4 (2.3%)	0.6 (0.9%)	2.4 (3.9%)
	BN	0 (0%)	-1 (-1.5%)	0.4 (0.6%)	-0.6 (-0.9%)
	D	0.6 (1%)	0.1 (0.2%)	-0.1 (-0.1%)	-0.5 (-0.8%)
	C	1.7 (2.6%)	0.1 (0.1%)	1.9 (3%)	0.3 (0.5%)
	All	0.5 (0.7%)	0.9 (1.4%)	0.6 (0.9%)	1 (1.6%)
Oct	W	1.2 (2.1%)	-0.1 (-0.1%)	1.7 (2.8%)	0.4 (0.6%)
	AN	1 (1.6%)	-0.1 (-0.2%)	0.9 (1.5%)	-0.2 (-0.3%)
	BN	1.2 (2%)	-0.1 (-0.1%)	1.7 (2.8%)	0.4 (0.7%)
	D	1.2 (2.1%)	-0.1 (-0.2%)	2 (3.4%)	0.6 (1%)
	C	1.4 (2.4%)	0.1 (0.1%)	1.3 (2.2%)	0 (-0.1%)
	All	1.2 (2.1%)	-0.1 (-0.1%)	1.6 (2.7%)	0.3 (0.5%)
Nov	W	1 (1.9%)	-0.1 (-0.2%)	1.3 (2.5%)	0.2 (0.4%)
	AN	1.3 (2.5%)	0 (0%)	1.1 (2%)	-0.3 (-0.5%)
	BN	0.9 (1.7%)	-0.2 (-0.5%)	1.3 (2.4%)	0.1 (0.2%)
	D	1.3 (2.4%)	-0.4 (-0.7%)	1.5 (2.7%)	-0.2 (-0.3%)
	C	1.1 (2%)	-0.1 (-0.2%)	0.8 (1.6%)	-0.3 (-0.6%)
	All	1.1 (2.1%)	-0.2 (-0.3%)	1.2 (2.3%)	0 (-0.1%)
Dec	W	1.4 (2.9%)	-0.1 (-0.2%)	1.5 (3.2%)	0.1 (0.1%)
	AN	1.5 (3.1%)	-0.2 (-0.4%)	1.5 (3.1%)	-0.2 (-0.4%)
	BN	1.3 (2.7%)	-0.3 (-0.6%)	1.5 (3.1%)	-0.1 (-0.2%)
	D	1.6 (3.3%)	-0.2 (-0.4%)	1.5 (3.1%)	-0.3 (-0.7%)
	C	1.2 (2.5%)	-0.2 (-0.5%)	0.8 (1.8%)	-0.6 (-1.2%)
	All	1.4 (2.9%)	-0.2 (-0.4%)	1.4 (3%)	-0.2 (-0.4%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.12 Feather River at Gridley Dam

Table F.1-59. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the Feather River at Gridley Dam, Year-Round

Alternative 4A_ELT: Feather River at Gridley Dam					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	47	48	48	48
	AN	47	48	48	48
	BN	46	47	47	48
	D	46	47	47	47
	C	46	48	48	48
	All	46	48	48	48
Feb	W	49	50	50	50
	AN	49	51	51	51
	BN	50	51	51	51
	D	50	52	52	52
	C	51	52	53	53
	All	50	51	51	51
Mar	W	51	52	52	52
	AN	53	53	53	53
	BN	54	55	55	55
	D	55	56	56	56
	C	54	56	56	56
	All	53	54	54	54
Apr	W	56	56	56	55
	AN	58	59	59	57
	BN	59	59	59	57
	D	59	60	60	60
	C	58	59	60	60
	All	58	58	58	57
May	W	61	63	63	61
	AN	64	65	65	63
	BN	64	65	65	64
	D	64	66	65	65
	C	64	66	66	66
	All	63	65	65	64
Jun	W	67	68	67	68
	AN	69	70	68	69
	BN	69	70	67	69
	D	69	71	70	70
	C	69	70	70	70
	All	68	70	68	69
Jul	W	70	71	71	72
	AN	69	69	69	71
	BN	69	70	70	71
	D	69	70	71	72
	C	71	73	75	75
	All	70	71	71	72

Alternative 4A_ELT: Feather River at Gridley Dam					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	71	71	71	72
	AN	68	69	69	71
	BN	69	70	70	72
	D	68	70	71	72
	C	71	73	73	73
	All	69	71	71	72
Sep	W	65	62	66	66
	AN	65	63	65	66
	BN	66	67	66	67
	D	65	66	66	66
	C	66	67	67	67
	All	65	65	66	66
Oct	W	59	60	60	61
	AN	60	61	61	61
	BN	60	61	61	61
	D	59	60	60	61
	C	59	61	61	61
	All	59	61	60	61
Nov	W	53	54	54	54
	AN	54	55	55	55
	BN	53	54	54	54
	D	53	54	54	54
	C	54	55	55	54
	All	53	54	54	54
Dec	W	48	49	49	49
	AN	47	49	49	49
	BN	47	48	48	48
	D	47	48	48	48
	C	46	48	47	47
	All	47	49	48	48

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Table F.1-60. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the Feather River at Gridley Dam, Year-Round

Alternative 4A_ELT: Feather River at Gridley Dam					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	1.3 (2.7%)	0 (0%)	1.3 (2.8%)	0.1 (0.2%)
	AN	1.3 (2.8%)	0 (-0.1%)	1.5 (3.2%)	0.1 (0.2%)
	BN	1 (2.2%)	-0.3 (-0.6%)	1.5 (3.3%)	0.2 (0.5%)
	D	1.2 (2.7%)	0 (0%)	1.4 (3%)	0.1 (0.3%)
	C	1.7 (3.6%)	0.1 (0.3%)	1.4 (3.1%)	-0.1 (-0.2%)
	All	1.3 (2.8%)	0 (-0.1%)	1.4 (3%)	0.1 (0.2%)
Feb	W	1.3 (2.6%)	0.1 (0.1%)	1.3 (2.7%)	0.1 (0.3%)
	AN	1.4 (2.9%)	-0.2 (-0.4%)	1.7 (3.5%)	0.1 (0.2%)
	BN	1.6 (3.2%)	0 (0%)	1.5 (3.1%)	-0.1 (-0.1%)
	D	1.5 (2.9%)	0.1 (0.1%)	1.4 (2.8%)	0 (0%)
	C	1.6 (3.1%)	0.1 (0.2%)	1.6 (3%)	0 (0.1%)
	All	1.4 (2.9%)	0 (0%)	1.5 (3%)	0.1 (0.1%)
Mar	W	0.9 (1.8%)	0 (0.1%)	1 (1.9%)	0.1 (0.2%)
	AN	0.2 (0.5%)	-0.1 (-0.2%)	0.4 (0.8%)	0 (0.1%)
	BN	1.4 (2.6%)	0 (0.1%)	1.3 (2.5%)	0 (-0.1%)
	D	1.3 (2.4%)	0.1 (0.2%)	1 (1.9%)	-0.2 (-0.3%)
	C	1.4 (2.6%)	0.1 (0.2%)	1.4 (2.6%)	0.1 (0.2%)
	All	1.1 (2%)	0 (0.1%)	1 (1.9%)	0 (0%)
Apr	W	0.7 (1.3%)	0 (0%)	-0.3 (-0.5%)	-1 (-1.8%)
	AN	0.9 (1.5%)	0 (0.1%)	-0.8 (-1.5%)	-1.7 (-2.9%)
	BN	0.6 (1%)	0 (0%)	-1.5 (-2.5%)	-2.1 (-3.5%)
	D	1.2 (2%)	0.2 (0.3%)	1 (1.6%)	-0.1 (-0.1%)
	C	1.2 (2%)	0.1 (0.1%)	1.2 (2.1%)	0.1 (0.3%)
	All	0.9 (1.5%)	0.1 (0.1%)	-0.1 (-0.1%)	-0.9 (-1.5%)
May	W	1.5 (2.4%)	0 (0%)	0.1 (0.2%)	-1.4 (-2.2%)
	AN	0.7 (1.1%)	-0.4 (-0.5%)	-0.9 (-1.3%)	-1.9 (-3%)
	BN	1.1 (1.7%)	-0.1 (-0.1%)	-0.4 (-0.6%)	-1.6 (-2.4%)
	D	1.3 (2%)	-0.2 (-0.2%)	1.3 (2%)	-0.1 (-0.2%)
	C	1.5 (2.2%)	0 (0%)	1.5 (2.2%)	0 (0%)
	All	1.3 (2%)	-0.1 (-0.2%)	0.4 (0.6%)	-1 (-1.6%)
Jun	W	0.6 (0.9%)	-1.3 (-1.9%)	1.8 (2.7%)	-0.1 (-0.2%)
	AN	-0.6 (-0.8%)	-2.1 (-3%)	0.8 (1.1%)	-0.7 (-1%)
	BN	-1.7 (-2.5%)	-3 (-4.2%)	0.7 (1%)	-0.5 (-0.7%)
	D	0.3 (0.4%)	-1.1 (-1.6%)	0.7 (1%)	-0.7 (-1%)
	C	1.6 (2.3%)	0 (0%)	1.8 (2.6%)	0.2 (0.3%)
	All	0.1 (0.2%)	-1.5 (-2.1%)	1.2 (1.8%)	-0.4 (-0.5%)
Jul	W	0.4 (0.6%)	0.3 (0.4%)	1.9 (2.7%)	1.8 (2.5%)
	AN	0.5 (0.8%)	0 (-0.1%)	2.5 (3.7%)	1.9 (2.8%)
	BN	1.6 (2.3%)	0.5 (0.8%)	2.4 (3.5%)	1.3 (1.9%)
	D	2.1 (3.1%)	0.8 (1.1%)	3 (4.3%)	1.6 (2.2%)
	C	4.7 (6.7%)	2.6 (3.6%)	4.4 (6.2%)	2.3 (3.2%)
	All	1.7 (2.4%)	0.7 (1.1%)	2.7 (3.9%)	1.8 (2.5%)

Alternative 4A_ELT: Feather River at Gridley Dam					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	0.4 (0.6%)	0.5 (0.7%)	1.6 (2.2%)	1.7 (2.4%)
	AN	1.2 (1.8%)	0.6 (0.8%)	2.5 (3.7%)	1.8 (2.7%)
	BN	1.5 (2.2%)	0.2 (0.3%)	2.7 (4%)	1.4 (2%)
	D	3.5 (5.2%)	1.3 (1.8%)	4 (5.8%)	1.7 (2.5%)
	C	1.5 (2.2%)	-0.7 (-0.9%)	2.1 (3%)	-0.1 (-0.1%)
	All	1.6 (2.3%)	0.5 (0.7%)	2.5 (3.6%)	1.4 (2%)
Sep	W	0.9 (1.4%)	3.7 (5.9%)	1 (1.5%)	3.7 (6%)
	AN	0.1 (0.1%)	2.3 (3.7%)	1.1 (1.6%)	3.3 (5.2%)
	BN	0.5 (0.8%)	-0.3 (-0.5%)	1 (1.6%)	0.1 (0.2%)
	D	1.1 (1.7%)	0.1 (0.1%)	0.6 (1%)	-0.4 (-0.6%)
	C	1.6 (2.5%)	0.1 (0.1%)	1.6 (2.4%)	0 (0%)
	All	0.9 (1.4%)	1.5 (2.2%)	1 (1.6%)	1.6 (2.4%)
Oct	W	1.2 (2.1%)	-0.1 (-0.2%)	1.7 (2.9%)	0.4 (0.6%)
	AN	0.9 (1.5%)	-0.2 (-0.3%)	0.9 (1.5%)	-0.2 (-0.3%)
	BN	1.3 (2.2%)	0 (0%)	1.7 (2.9%)	0.4 (0.6%)
	D	1.2 (2.1%)	-0.2 (-0.3%)	1.9 (3.3%)	0.6 (0.9%)
	C	1.4 (2.3%)	0 (-0.1%)	1.3 (2.1%)	-0.2 (-0.3%)
	All	1.2 (2%)	-0.1 (-0.2%)	1.6 (2.7%)	0.3 (0.4%)
Nov	W	1 (1.9%)	-0.1 (-0.2%)	1.3 (2.5%)	0.2 (0.3%)
	AN	1.3 (2.4%)	0 (0%)	1.1 (2%)	-0.2 (-0.4%)
	BN	0.9 (1.7%)	-0.2 (-0.4%)	1.3 (2.4%)	0.1 (0.2%)
	D	1.3 (2.4%)	-0.3 (-0.6%)	1.4 (2.7%)	-0.2 (-0.3%)
	C	1.1 (2.1%)	-0.1 (-0.2%)	0.9 (1.6%)	-0.3 (-0.6%)
	All	1.1 (2.1%)	-0.2 (-0.3%)	1.2 (2.3%)	0 (-0.1%)
Dec	W	1.3 (2.8%)	-0.1 (-0.2%)	1.5 (3.2%)	0.1 (0.1%)
	AN	1.4 (3%)	-0.2 (-0.4%)	1.5 (3.1%)	-0.2 (-0.4%)
	BN	1.2 (2.7%)	-0.3 (-0.6%)	1.4 (3.1%)	-0.1 (-0.2%)
	D	1.5 (3.3%)	-0.2 (-0.4%)	1.4 (3%)	-0.3 (-0.6%)
	C	1.2 (2.5%)	-0.2 (-0.4%)	0.8 (1.8%)	-0.5 (-1.1%)
	All	1.4 (2.9%)	-0.2 (-0.4%)	1.4 (2.9%)	-0.2 (-0.3%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.13 Feather River at Honcut Creek

Table F.1-61. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the Feather River at Honcut Creek, Year-Round

Alternative 4A_ELT: Feather River at Honcut Creek					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	47	48	48	48
	AN	46	48	48	48
	BN	46	47	47	48
	D	45	47	47	47
	C	46	48	48	47
	All	46	48	48	48
Feb	W	49	50	50	50
	AN	49	51	51	51
	BN	50	51	51	51
	D	50	52	52	52
	C	51	53	53	53
	All	50	51	51	51
Mar	W	52	53	53	53
	AN	53	53	53	53
	BN	54	55	55	55
	D	55	56	56	56
	C	55	56	56	56
	All	53	54	54	54
Apr	W	56	57	57	56
	AN	59	60	60	58
	BN	60	60	60	58
	D	60	61	61	60
	C	59	61	61	61
	All	58	59	59	58
May	W	62	64	64	62
	AN	65	66	66	64
	BN	65	66	66	64
	D	65	66	66	66
	C	65	67	67	67
	All	64	66	65	64
Jun	W	67	69	68	69
	AN	69	71	69	70
	BN	69	71	68	70
	D	70	71	70	71
	C	69	71	71	71
	All	69	70	69	70
Jul	W	71	71	72	73
	AN	69	70	70	72
	BN	69	70	71	72
	D	69	71	71	72
	C	71	73	76	76
	All	70	71	72	73

Alternative 4A_ELT: Feather River at Honcut Creek					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	72	71	72	73
	AN	69	69	70	71
	BN	69	71	71	72
	D	68	71	72	72
	C	72	74	73	74
	All	70	71	72	73
Sep	W	66	63	67	67
	AN	66	63	66	67
	BN	67	67	67	68
	D	66	67	67	67
	C	66	68	68	68
	All	66	65	67	67
Oct	W	59	60	60	61
	AN	60	61	61	61
	BN	60	61	61	62
	D	59	60	60	61
	C	60	61	61	61
	All	60	61	61	61
Nov	W	53	54	54	54
	AN	54	55	55	55
	BN	53	54	54	54
	D	53	54	54	54
	C	54	55	55	54
	All	53	54	54	54
Dec	W	47	49	49	49
	AN	47	49	49	49
	BN	46	48	48	48
	D	46	48	48	48
	C	46	47	47	47
	All	47	48	48	48

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Table F.1-62. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the Feather River at Honcut Creek, Year-Round

Alternative 4A_ELT: Feather River at Honcut Creek					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	1.3 (2.7%)	0 (0%)	1.3 (2.8%)	0.1 (0.2%)
	AN	1.3 (2.8%)	0 (-0.1%)	1.5 (3.1%)	0.1 (0.2%)
	BN	1 (2.3%)	-0.2 (-0.5%)	1.5 (3.3%)	0.2 (0.5%)
	D	1.2 (2.7%)	0 (0%)	1.3 (2.9%)	0.1 (0.2%)
	C	1.7 (3.6%)	0.2 (0.3%)	1.4 (3.1%)	-0.1 (-0.2%)
	All	1.3 (2.8%)	0 (0%)	1.4 (3%)	0.1 (0.2%)
Feb	W	1.3 (2.6%)	0.1 (0.2%)	1.3 (2.7%)	0.2 (0.3%)
	AN	1.4 (2.8%)	-0.3 (-0.5%)	1.7 (3.4%)	0 (0.1%)
	BN	1.6 (3.2%)	0 (0%)	1.5 (3%)	-0.1 (-0.2%)
	D	1.5 (2.9%)	0 (0.1%)	1.4 (2.8%)	0 (-0.1%)
	C	1.6 (3.1%)	0.1 (0.2%)	1.5 (2.9%)	0 (0%)
	All	1.4 (2.9%)	0 (0%)	1.4 (2.9%)	0 (0.1%)
Mar	W	0.9 (1.8%)	0 (0.1%)	0.9 (1.8%)	0.1 (0.1%)
	AN	0.2 (0.4%)	-0.1 (-0.2%)	0.4 (0.7%)	0 (0.1%)
	BN	1.4 (2.5%)	0 (0%)	1.3 (2.4%)	-0.1 (-0.1%)
	D	1.2 (2.2%)	0 (0.1%)	1 (1.8%)	-0.2 (-0.4%)
	C	1.3 (2.4%)	0.1 (0.2%)	1.3 (2.4%)	0.1 (0.1%)
	All	1 (1.9%)	0 (0%)	1 (1.9%)	0 (0%)
Apr	W	0.7 (1.3%)	0 (0%)	-0.4 (-0.7%)	-1.1 (-1.9%)
	AN	0.9 (1.5%)	0 (0%)	-1.1 (-1.8%)	-2 (-3.3%)
	BN	0.6 (1%)	-0.1 (-0.1%)	-1.7 (-2.9%)	-2.4 (-4%)
	D	1.1 (1.8%)	0.1 (0.1%)	0.9 (1.5%)	-0.1 (-0.2%)
	C	1 (1.8%)	0 (-0.1%)	1.1 (1.9%)	0.1 (0.1%)
	All	0.9 (1.5%)	0 (0%)	-0.2 (-0.4%)	-1 (-1.8%)
May	W	1.6 (2.5%)	0 (0%)	0 (0%)	-1.5 (-2.4%)
	AN	0.9 (1.3%)	-0.4 (-0.6%)	-1 (-1.6%)	-2.3 (-3.4%)
	BN	1.1 (1.7%)	-0.1 (-0.2%)	-0.5 (-0.8%)	-1.8 (-2.7%)
	D	1.2 (1.9%)	-0.1 (-0.2%)	1.2 (1.9%)	-0.2 (-0.3%)
	C	1.4 (2.2%)	0 (0%)	1.4 (2.2%)	0 (0.1%)
	All	1.3 (2%)	-0.1 (-0.2%)	0.3 (0.4%)	-1.1 (-1.7%)
Jun	W	0.7 (1%)	-1.4 (-2%)	2.1 (3.2%)	0.1 (0.1%)
	AN	-0.6 (-0.8%)	-2.1 (-3%)	0.8 (1.2%)	-0.7 (-1%)
	BN	-1.9 (-2.7%)	-3.1 (-4.4%)	0.7 (1%)	-0.5 (-0.7%)
	D	0.3 (0.4%)	-1.1 (-1.5%)	0.7 (1%)	-0.7 (-1%)
	C	1.6 (2.3%)	0.1 (0.1%)	1.8 (2.5%)	0.2 (0.3%)
	All	0.1 (0.2%)	-1.5 (-2.1%)	1.3 (1.9%)	-0.3 (-0.4%)
Jul	W	0.6 (0.8%)	0.3 (0.5%)	2 (2.9%)	1.8 (2.5%)
	AN	0.6 (0.9%)	0 (-0.1%)	2.6 (3.8%)	2 (2.9%)
	BN	1.7 (2.5%)	0.5 (0.8%)	2.5 (3.7%)	1.4 (2%)
	D	2.3 (3.3%)	0.8 (1.1%)	3.1 (4.5%)	1.6 (2.3%)
	C	4.8 (6.7%)	2.6 (3.6%)	4.5 (6.3%)	2.3 (3.1%)
	All	1.8 (2.5%)	0.8 (1.1%)	2.8 (4%)	1.8 (2.5%)

Alternative 4A_ELT: Feather River at Honcut Creek					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	0.5 (0.7%)	0.6 (0.8%)	1.8 (2.6%)	1.9 (2.7%)
	AN	1.2 (1.8%)	0.6 (0.8%)	2.7 (3.9%)	2 (2.9%)
	BN	1.6 (2.3%)	0.2 (0.3%)	2.9 (4.2%)	1.5 (2.2%)
	D	3.6 (5.2%)	1.2 (1.7%)	4.1 (6%)	1.8 (2.5%)
	C	1.5 (2.1%)	-0.7 (-0.9%)	1.8 (2.5%)	-0.4 (-0.5%)
	All	1.6 (2.3%)	0.5 (0.7%)	2.6 (3.8%)	1.5 (2.1%)
Sep	W	1.3 (2%)	4.5 (7.1%)	1.4 (2.2%)	4.6 (7.3%)
	AN	0.5 (0.7%)	2.9 (4.6%)	1.4 (2.1%)	3.9 (6.1%)
	BN	0.9 (1.4%)	0.1 (0.1%)	1.5 (2.2%)	0.6 (0.9%)
	D	1.4 (2.2%)	0 (0%)	1.2 (1.8%)	-0.2 (-0.3%)
	C	1.6 (2.4%)	0 (0%)	1.3 (2%)	-0.3 (-0.4%)
	All	1.2 (1.8%)	1.8 (2.8%)	1.4 (2.1%)	2 (3.1%)
Oct	W	1.2 (2.1%)	-0.1 (-0.2%)	1.7 (2.9%)	0.4 (0.6%)
	AN	0.9 (1.4%)	-0.2 (-0.4%)	1 (1.6%)	-0.1 (-0.2%)
	BN	1.3 (2.2%)	0 (-0.1%)	1.7 (2.8%)	0.3 (0.6%)
	D	1.1 (1.9%)	-0.2 (-0.4%)	1.9 (3.2%)	0.5 (0.9%)
	C	1.4 (2.3%)	-0.1 (-0.2%)	1.2 (2%)	-0.3 (-0.5%)
	All	1.2 (2%)	-0.1 (-0.2%)	1.6 (2.6%)	0.2 (0.4%)
Nov	W	1 (2%)	-0.1 (-0.2%)	1.3 (2.5%)	0.2 (0.3%)
	AN	1.3 (2.4%)	0 (0%)	1.1 (2.1%)	-0.2 (-0.4%)
	BN	1 (1.8%)	-0.2 (-0.4%)	1.3 (2.4%)	0.1 (0.2%)
	D	1.2 (2.4%)	-0.3 (-0.5%)	1.4 (2.7%)	-0.1 (-0.2%)
	C	1.1 (2.1%)	-0.1 (-0.2%)	0.9 (1.7%)	-0.3 (-0.5%)
	All	1.1 (2.1%)	-0.1 (-0.3%)	1.2 (2.3%)	0 (-0.1%)
Dec	W	1.3 (2.8%)	-0.1 (-0.2%)	1.5 (3.1%)	0.1 (0.1%)
	AN	1.4 (3%)	-0.2 (-0.4%)	1.4 (3.1%)	-0.2 (-0.4%)
	BN	1.2 (2.6%)	-0.3 (-0.5%)	1.4 (3.1%)	-0.1 (-0.1%)
	D	1.5 (3.2%)	-0.2 (-0.4%)	1.4 (2.9%)	-0.3 (-0.6%)
	C	1.2 (2.5%)	-0.1 (-0.2%)	0.8 (1.8%)	-0.4 (-0.9%)
	All	1.3 (2.8%)	-0.2 (-0.3%)	1.3 (2.9%)	-0.1 (-0.3%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.14 Feather River at the Confluence with the Sacramento River

Table F.1-63. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the Feather River at the Confluence with the Sacramento River, Year-Round

Alternative 4A_ELT: Feather River at the Confluence with the Sacramento River					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	47	48	48	48
	AN	46	47	47	47
	BN	46	46	46	47
	D	45	46	46	46
	C	45	46	47	46
	All	46	47	47	47
Feb	W	50	51	51	51
	AN	50	51	51	51
	BN	50	51	51	51
	D	50	51	51	51
	C	51	52	52	52
	All	50	51	51	51
Mar	W	53	54	54	54
	AN	54	55	55	55
	BN	55	56	56	55
	D	55	56	56	56
	C	56	57	57	57
	All	55	55	55	55
Apr	W	59	59	59	58
	AN	60	61	61	60
	BN	61	61	61	60
	D	62	63	63	63
	C	63	64	64	64
	All	61	61	61	61
May	W	65	66	66	65
	AN	66	68	68	66
	BN	67	68	68	67
	D	68	69	69	69
	C	68	70	70	70
	All	66	68	68	67
Jun	W	70	72	71	72
	AN	71	73	72	73
	BN	72	74	71	73
	D	73	75	74	74
	C	72	74	74	74
	All	71	73	72	73
Jul	W	74	75	75	76
	AN	72	74	73	75
	BN	73	74	75	75
	D	73	75	75	76
	C	75	77	79	79
	All	73	75	75	76

Alternative 4A_ELT: Feather River at the Confluence with the Sacramento River					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	73	74	75	76
	AN	71	72	73	74
	BN	72	74	74	75
	D	72	74	75	75
	C	75	77	76	76
	All	73	74	75	75
Sep	W	71	68	73	73
	AN	70	68	71	72
	BN	70	71	72	72
	D	70	72	72	72
	C	70	72	72	71
	All	70	70	72	72
Oct	W	61	62	62	62
	AN	62	63	62	63
	BN	61	63	63	63
	D	61	62	62	62
	C	62	63	63	63
	All	61	62	62	63
Nov	W	52	53	53	53
	AN	53	54	54	54
	BN	53	54	53	54
	D	52	53	53	53
	C	53	54	54	54
	All	53	53	53	54
Dec	W	47	48	48	48
	AN	47	48	48	48
	BN	46	47	47	47
	D	46	47	47	47
	C	45	46	46	46
	All	46	47	47	47

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Table F.1-64. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the Feather River at the Confluence with the Sacramento River, Year-Round

Alternative 4A_ELT: Feather River at the Confluence with the Sacramento River					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	0.9 (2%)	0.1 (0.1%)	1 (2.1%)	0.1 (0.2%)
	AN	0.9 (1.9%)	0 (0%)	0.9 (1.9%)	0 (0.1%)
	BN	0.8 (1.7%)	-0.1 (-0.2%)	1 (2.2%)	0.1 (0.3%)
	D	0.9 (2%)	0 (0%)	0.9 (2%)	0 (-0.1%)
	C	1.2 (2.7%)	0.2 (0.4%)	1.1 (2.4%)	0.1 (0.1%)
	All	0.9 (2%)	0 (0.1%)	1 (2.1%)	0.1 (0.1%)
Feb	W	0.9 (1.9%)	0 (0.1%)	1 (2%)	0.1 (0.2%)
	AN	1 (1.9%)	0 (0%)	1 (2%)	0.1 (0.1%)
	BN	0.9 (1.8%)	0 (0%)	0.9 (1.9%)	0.1 (0.1%)
	D	1 (1.9%)	0 (0%)	1 (1.9%)	0 (0%)
	C	1 (2%)	0 (0%)	1.1 (2.1%)	0 (0.1%)
	All	1 (1.9%)	0 (0%)	1 (2%)	0.1 (0.1%)
Mar	W	0.7 (1.3%)	0 (0%)	0.7 (1.3%)	0 (0%)
	AN	0.4 (0.7%)	-0.1 (-0.1%)	0.4 (0.7%)	-0.1 (-0.1%)
	BN	0.8 (1.4%)	0 (0.1%)	0.7 (1.3%)	0 (-0.1%)
	D	0.8 (1.4%)	0 (0%)	0.8 (1.4%)	0 (0%)
	C	0.9 (1.7%)	0 (0%)	0.9 (1.6%)	0 (-0.1%)
	All	0.7 (1.3%)	0 (0%)	0.7 (1.3%)	0 (0%)
Apr	W	0.6 (1.1%)	0 (0%)	-0.4 (-0.6%)	-1 (-1.7%)
	AN	0.8 (1.3%)	0 (0%)	-0.4 (-0.7%)	-1.2 (-1.9%)
	BN	0.6 (1%)	0 (-0.1%)	-1 (-1.7%)	-1.7 (-2.7%)
	D	0.8 (1.4%)	0 (0%)	0.7 (1.2%)	-0.1 (-0.1%)
	C	0.8 (1.3%)	-0.2 (-0.3%)	0.9 (1.5%)	0 (-0.1%)
	All	0.7 (1.2%)	0 (0%)	-0.1 (-0.1%)	-0.8 (-1.3%)
May	W	1.4 (2.1%)	0 (0%)	0.4 (0.6%)	-1 (-1.4%)
	AN	1.3 (2%)	-0.2 (-0.3%)	0.1 (0.2%)	-1.4 (-2%)
	BN	1.3 (2%)	0 (-0.1%)	0.2 (0.3%)	-1.1 (-1.7%)
	D	1.5 (2.2%)	-0.1 (-0.2%)	1.5 (2.2%)	-0.2 (-0.2%)
	C	1.6 (2.4%)	0.1 (0.1%)	1.6 (2.4%)	0.1 (0.2%)
	All	1.4 (2.1%)	0 (-0.1%)	0.8 (1.1%)	-0.7 (-1%)
Jun	W	1.3 (1.8%)	-0.7 (-1%)	2.1 (3.1%)	0.2 (0.2%)
	AN	0.6 (0.8%)	-1.3 (-1.8%)	1.5 (2.1%)	-0.4 (-0.6%)
	BN	-0.3 (-0.4%)	-2.1 (-2.9%)	1.5 (2.1%)	-0.3 (-0.4%)
	D	1 (1.4%)	-0.8 (-1.1%)	1.3 (1.8%)	-0.5 (-0.7%)
	C	1.8 (2.5%)	0.1 (0.1%)	1.9 (2.7%)	0.2 (0.3%)
	All	0.9 (1.3%)	-0.9 (-1.3%)	1.7 (2.4%)	-0.1 (-0.2%)
Jul	W	1.6 (2.2%)	0.3 (0.4%)	2.7 (3.7%)	1.4 (1.9%)
	AN	1.2 (1.7%)	0 (0%)	2.7 (3.7%)	1.5 (2%)
	BN	2 (2.8%)	0.4 (0.6%)	2.6 (3.6%)	1 (1.4%)
	D	2.4 (3.3%)	0.6 (0.8%)	3.1 (4.3%)	1.3 (1.8%)
	C	4.2 (5.7%)	1.9 (2.5%)	4.1 (5.5%)	1.8 (2.3%)
	All	2.2 (3%)	0.6 (0.8%)	3 (4.1%)	1.4 (1.8%)

Alternative 4A_ELT: Feather River at the Confluence with the Sacramento River					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	1.6 (2.2%)	0.5 (0.7%)	2.6 (3.5%)	1.5 (2%)
	AN	1.5 (2%)	0.3 (0.4%)	2.4 (3.4%)	1.3 (1.8%)
	BN	1.7 (2.4%)	0.1 (0.1%)	2.6 (3.6%)	1 (1.3%)
	D	3.2 (4.5%)	0.8 (1.1%)	3.8 (5.3%)	1.3 (1.8%)
	C	1.7 (2.3%)	-0.5 (-0.6%)	1.8 (2.5%)	-0.4 (-0.5%)
	All	2 (2.7%)	0.3 (0.5%)	2.7 (3.7%)	1.1 (1.4%)
Sep	W	2.2 (3.1%)	4.8 (7%)	2.2 (3.2%)	4.8 (7.1%)
	AN	1.4 (1.9%)	3.2 (4.8%)	1.9 (2.8%)	3.8 (5.6%)
	BN	1.8 (2.5%)	0.8 (1.2%)	2 (2.9%)	1.1 (1.5%)
	D	2.1 (3%)	0 (0%)	2.2 (3.1%)	0.1 (0.1%)
	C	1.4 (2%)	-0.2 (-0.2%)	0.9 (1.3%)	-0.7 (-0.9%)
	All	1.9 (2.6%)	2.1 (3%)	2 (2.8%)	2.2 (3.1%)
Oct	W	1.2 (2%)	-0.1 (-0.2%)	1.5 (2.6%)	0.3 (0.4%)
	AN	0.8 (1.3%)	-0.2 (-0.4%)	1 (1.7%)	0 (0%)
	BN	1.3 (2.1%)	0 (0%)	1.4 (2.3%)	0.1 (0.2%)
	D	1 (1.6%)	-0.1 (-0.2%)	1.5 (2.4%)	0.3 (0.6%)
	C	1.3 (2.1%)	-0.2 (-0.3%)	1.1 (1.8%)	-0.4 (-0.6%)
	All	1.1 (1.8%)	-0.1 (-0.2%)	1.4 (2.2%)	0.1 (0.2%)
Nov	W	0.8 (1.6%)	-0.1 (-0.1%)	0.9 (1.8%)	0 (0.1%)
	AN	1 (1.9%)	0 (0%)	1.1 (2%)	0 (0.1%)
	BN	0.9 (1.8%)	0 (-0.1%)	1 (2%)	0.1 (0.1%)
	D	0.9 (1.7%)	-0.1 (-0.1%)	1 (1.9%)	0 (0%)
	C	1 (1.9%)	0.1 (0.1%)	1 (1.8%)	0.1 (0.1%)
	All	0.9 (1.7%)	0 (-0.1%)	1 (1.9%)	0 (0.1%)
Dec	W	0.8 (1.8%)	0 (0.1%)	1 (2.1%)	0.1 (0.3%)
	AN	1 (2.2%)	-0.2 (-0.4%)	1 (2.2%)	-0.2 (-0.4%)
	BN	0.9 (1.9%)	-0.2 (-0.4%)	1 (2.2%)	-0.1 (-0.1%)
	D	0.9 (2%)	0.2 (0.4%)	0.9 (1.8%)	0.1 (0.2%)
	C	1.1 (2.4%)	0.4 (0.9%)	0.9 (2%)	0.2 (0.5%)
	All	0.9 (2%)	0.1 (0.1%)	0.9 (2%)	0.1 (0.1%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.15 American River below Nimbus Dam

Table F.1-65. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the American River below Nimbus Dam, Year-Round

Alternative 4A_ELT: American River below Nimbus Dam					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	47	48	48	48
	AN	47	48	48	48
	BN	46	48	48	48
	D	47	48	48	48
	C	47	48	48	48
	All	47	48	48	48
Feb	W	48	50	50	50
	AN	48	50	50	50
	BN	47	49	49	49
	D	49	50	50	50
	C	51	52	52	52
	All	48	50	50	50
Mar	W	52	53	53	53
	AN	53	54	54	54
	BN	53	54	54	54
	D	53	55	55	55
	C	55	56	56	56
	All	53	54	54	54
Apr	W	56	57	57	57
	AN	57	58	58	58
	BN	57	59	59	59
	D	59	60	60	60
	C	59	61	61	61
	All	58	59	59	59
May	W	60	62	62	62
	AN	61	64	63	63
	BN	61	63	63	63
	D	64	66	66	66
	C	64	66	67	66
	All	62	64	64	64
Jun	W	64	66	65	66
	AN	65	68	67	68
	BN	65	67	66	68
	D	67	68	68	69
	C	68	71	71	70
	All	66	68	67	68
Jul	W	66	68	67	68
	AN	66	67	67	67
	BN	66	67	67	67
	D	67	68	68	68
	C	70	72	72	73
	All	67	68	68	68

Alternative 4A_ELT: American River below Nimbus Dam					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	67	68	69	68
	AN	67	69	69	69
	BN	67	69	69	68
	D	67	69	70	70
	C	70	74	74	73
	All	67	70	70	69
Sep	W	65	66	67	67
	AN	66	66	67	67
	BN	66	67	67	68
	D	66	68	68	68
	C	68	71	71	71
	All	66	67	68	68
Oct	W	58	63	63	63
	AN	59	63	63	63
	BN	58	62	62	62
	D	59	64	63	63
	C	61	64	64	64
	All	59	63	63	63
Nov	W	57	59	59	59
	AN	57	59	59	59
	BN	56	59	59	59
	D	57	59	59	59
	C	58	60	60	60
	All	57	59	59	59
Dec	W	50	51	51	51
	AN	51	52	52	52
	BN	50	51	51	51
	D	50	51	51	51
	C	50	51	51	51
	All	50	51	51	51

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Table F.1-66. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the American River below Nimbus Dam, Year-Round

Alternative 4A_ELT: American River below Nimbus Dam					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	1.4 (3%)	0 (0%)	1.4 (3%)	0 (0.1%)
	AN	1.3 (2.8%)	0.1 (0.2%)	1.4 (2.9%)	0.1 (0.3%)
	BN	1.4 (3.1%)	0 (-0.1%)	1.5 (3.2%)	0 (0.1%)
	D	1.2 (2.7%)	0 (0%)	1.3 (2.8%)	0 (0.1%)
	C	1.4 (2.9%)	0 (0.1%)	1.5 (3.2%)	0.2 (0.3%)
	All	1.4 (2.9%)	0 (0%)	1.4 (3%)	0.1 (0.1%)
Feb	W	1.7 (3.5%)	0 (0%)	1.7 (3.5%)	0 (0%)
	AN	1.8 (3.7%)	0 (-0.1%)	1.8 (3.7%)	-0.1 (-0.1%)
	BN	1.7 (3.6%)	0 (0%)	1.6 (3.5%)	-0.1 (-0.1%)
	D	1.7 (3.5%)	0 (0.1%)	1.6 (3.3%)	-0.1 (-0.1%)
	C	1.4 (2.8%)	0.1 (0.2%)	1.6 (3.2%)	0.3 (0.5%)
	All	1.7 (3.4%)	0 (0%)	1.6 (3.4%)	0 (0%)
Mar	W	1.4 (2.7%)	0 (0%)	1.4 (2.7%)	0 (0%)
	AN	1.4 (2.7%)	0 (0.1%)	1.4 (2.7%)	0 (0.1%)
	BN	1.3 (2.5%)	0.1 (0.1%)	1.4 (2.6%)	0.1 (0.2%)
	D	1.6 (3.1%)	0 (0%)	1.5 (2.9%)	-0.1 (-0.2%)
	C	1.4 (2.6%)	0 (0%)	1.3 (2.4%)	-0.1 (-0.1%)
	All	1.4 (2.7%)	0 (0%)	1.4 (2.7%)	0 (0%)
Apr	W	1.2 (2.2%)	0 (0%)	1.2 (2.2%)	0 (0%)
	AN	1.3 (2.3%)	0 (0%)	1.3 (2.3%)	0 (0%)
	BN	1.3 (2.3%)	-0.1 (-0.1%)	1.3 (2.3%)	-0.1 (-0.1%)
	D	1.2 (2.1%)	0.5 (0.8%)	1.2 (2.1%)	0.5 (0.8%)
	C	1.2 (1.9%)	-0.4 (-0.6%)	1.3 (2.3%)	-0.2 (-0.3%)
	All	1.2 (2.2%)	0 (0.1%)	1.3 (2.2%)	0.1 (0.1%)
May	W	2.1 (3.5%)	0 (0%)	2.1 (3.5%)	0 (0%)
	AN	2.4 (3.9%)	-0.1 (-0.2%)	2.4 (3.9%)	-0.1 (-0.1%)
	BN	2 (3.2%)	-0.2 (-0.3%)	2.1 (3.5%)	0 (0%)
	D	1.9 (3%)	0.2 (0.3%)	2.1 (3.3%)	0.4 (0.6%)
	C	2.3 (3.5%)	0.5 (0.7%)	1.9 (2.9%)	0.1 (0.1%)
	All	2.1 (3.4%)	0.1 (0.1%)	2.1 (3.4%)	0.1 (0.1%)
Jun	W	1.7 (2.7%)	-0.2 (-0.2%)	1.9 (3%)	0 (0%)
	AN	1.6 (2.4%)	-0.6 (-0.8%)	2.3 (3.5%)	0.1 (0.2%)
	BN	1.1 (1.6%)	-1.1 (-1.6%)	2.4 (3.7%)	0.3 (0.4%)
	D	0.6 (0.9%)	-0.8 (-1.2%)	1.8 (2.7%)	0.4 (0.6%)
	C	2.8 (4.2%)	0.2 (0.3%)	2.4 (3.5%)	-0.2 (-0.3%)
	All	1.5 (2.3%)	-0.5 (-0.7%)	2.1 (3.2%)	0.1 (0.2%)
Jul	W	1.1 (1.6%)	-0.5 (-0.8%)	1.2 (1.8%)	-0.4 (-0.6%)
	AN	0.7 (1%)	0 (0%)	0.6 (0.9%)	0 (0%)
	BN	0.9 (1.4%)	0.1 (0.1%)	0.9 (1.3%)	0 (0%)
	D	1.3 (2%)	-0.1 (-0.1%)	1.4 (2.1%)	0 (0%)
	C	2 (2.8%)	-0.5 (-0.6%)	3.3 (4.7%)	0.9 (1.2%)
	All	1.2 (1.8%)	-0.2 (-0.4%)	1.4 (2.1%)	0 (0%)

Alternative 4A_ELT: American River below Nimbus Dam					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	2.1 (3.2%)	0.3 (0.4%)	1.8 (2.7%)	-0.1 (-0.1%)
	AN	1.5 (2.2%)	0 (0%)	1.2 (1.8%)	-0.2 (-0.4%)
	BN	1.6 (2.3%)	0 (0%)	0.8 (1.1%)	-0.8 (-1.2%)
	D	3.1 (4.6%)	0.8 (1.2%)	2.3 (3.5%)	0.1 (0.1%)
	C	4 (5.7%)	0.2 (0.2%)	2.8 (4%)	-1 (-1.4%)
	All	2.4 (3.6%)	0.3 (0.4%)	1.8 (2.7%)	-0.3 (-0.5%)
Sep	W	1.7 (2.6%)	0.9 (1.4%)	1.7 (2.6%)	0.9 (1.4%)
	AN	1.4 (2.1%)	0.9 (1.4%)	1.7 (2.5%)	1.2 (1.8%)
	BN	1.5 (2.3%)	0.7 (1.1%)	1.7 (2.6%)	0.9 (1.4%)
	D	1.9 (2.9%)	0.6 (0.8%)	1.5 (2.3%)	0.2 (0.2%)
	C	2.5 (3.6%)	0.2 (0.2%)	2.3 (3.3%)	0 (0%)
	All	1.8 (2.7%)	0.7 (1%)	1.7 (2.6%)	0.6 (1%)
Oct	W	4.6 (7.9%)	-0.1 (-0.1%)	4.5 (7.7%)	-0.2 (-0.3%)
	AN	3.9 (6.5%)	-0.3 (-0.4%)	3.7 (6.2%)	-0.5 (-0.8%)
	BN	4 (6.9%)	-0.1 (-0.1%)	3.6 (6.2%)	-0.5 (-0.8%)
	D	4.2 (7.2%)	-0.4 (-0.6%)	4.1 (6.9%)	-0.6 (-0.9%)
	C	3.5 (5.8%)	-0.1 (-0.2%)	3.1 (5.1%)	-0.6 (-0.9%)
	All	4.2 (7.1%)	-0.2 (-0.3%)	3.9 (6.6%)	-0.4 (-0.7%)
Nov	W	1.9 (3.3%)	-0.2 (-0.3%)	2 (3.5%)	-0.1 (-0.1%)
	AN	1.9 (3.3%)	-0.1 (-0.2%)	1.9 (3.3%)	-0.1 (-0.1%)
	BN	2.6 (4.6%)	-0.2 (-0.3%)	2.8 (5%)	0.1 (0.1%)
	D	2.1 (3.7%)	-0.1 (-0.1%)	2.2 (3.9%)	0 (0%)
	C	2.1 (3.7%)	0.2 (0.3%)	2.5 (4.3%)	0.5 (0.9%)
	All	2.1 (3.6%)	-0.1 (-0.2%)	2.2 (3.9%)	0.1 (0.1%)
Dec	W	1 (2%)	0.1 (0.1%)	1.1 (2.1%)	0.1 (0.2%)
	AN	1.1 (2.2%)	0.1 (0.2%)	1.2 (2.4%)	0.2 (0.4%)
	BN	1.3 (2.5%)	0.1 (0.1%)	1.4 (2.7%)	0.2 (0.3%)
	D	1 (2%)	-0.1 (-0.2%)	1.2 (2.4%)	0.1 (0.2%)
	C	1.1 (2.3%)	0.1 (0.2%)	1.5 (2.9%)	0.4 (0.8%)
	All	1.1 (2.2%)	0 (0.1%)	1.2 (2.4%)	0.2 (0.3%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.16 American River at Watt Avenue

Table F.1-67. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the American River at Watt Avenue, Year-Round

Alternative 4A_ELT: American River at Watt Avenue					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	47	48	48	48
	AN	47	48	48	48
	BN	46	47	47	47
	D	46	47	47	47
	C	46	48	48	48
	All	46	48	48	48
Feb	W	48	50	50	50
	AN	48	50	50	50
	BN	48	49	49	49
	D	49	51	51	51
	C	51	53	53	53
	All	49	50	50	50
Mar	W	53	54	54	54
	AN	53	54	54	54
	BN	54	55	55	55
	D	54	56	56	56
	C	56	57	57	57
	All	54	55	55	55
Apr	W	56	58	58	58
	AN	58	59	59	59
	BN	58	60	60	60
	D	60	61	61	61
	C	61	62	62	62
	All	58	60	60	60
May	W	61	63	63	63
	AN	62	65	65	65
	BN	62	65	64	65
	D	65	67	67	67
	C	66	68	68	68
	All	63	65	65	65
Jun	W	65	67	67	67
	AN	67	69	68	69
	BN	67	69	68	69
	D	69	70	69	71
	C	69	72	72	72
	All	67	69	68	69
Jul	W	68	70	69	69
	AN	67	68	68	68
	BN	67	68	68	68
	D	68	70	70	70
	C	72	74	73	75
	All	68	70	70	70

Alternative 4A_ELT: American River at Watt Avenue					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	68	70	71	70
	AN	69	70	70	70
	BN	69	71	71	70
	D	69	71	72	71
	C	71	75	75	74
	All	69	71	72	71
Sep	W	66	67	68	68
	AN	66	67	68	69
	BN	67	68	69	69
	D	67	69	69	69
	C	69	71	71	71
	All	67	68	69	69
Oct	W	59	63	63	63
	AN	60	63	63	63
	BN	59	63	63	62
	D	60	64	63	63
	C	61	64	64	64
	All	60	63	63	63
Nov	W	56	58	58	58
	AN	56	58	58	58
	BN	56	58	58	58
	D	56	58	58	58
	C	57	59	59	59
	All	56	58	58	58
Dec	W	50	51	51	51
	AN	50	51	51	51
	BN	49	50	50	50
	D	49	50	50	50
	C	49	50	50	50
	All	49	50	50	50

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Table F.1-68. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the American River at Watt Avenue, Year-Round

Alternative 4A_ELT: American River at Watt Avenue					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Jan	W	1.4 (3%)	0 (0%)	1.4 (3%)	0 (0.1%)
	AN	1.3 (2.8%)	0.1 (0.2%)	1.3 (2.9%)	0.1 (0.2%)
	BN	1.4 (3%)	0 (0%)	1.4 (3.1%)	0 (0.1%)
	D	1.2 (2.5%)	0 (-0.1%)	1.3 (2.8%)	0.1 (0.1%)
	C	1.4 (3%)	0.1 (0.1%)	1.5 (3.1%)	0.1 (0.3%)
	All	1.3 (2.9%)	0 (0%)	1.4 (3%)	0.1 (0.1%)
Feb	W	1.6 (3.4%)	0 (0%)	1.6 (3.4%)	0 (0%)
	AN	1.8 (3.6%)	-0.1 (-0.1%)	1.7 (3.6%)	-0.1 (-0.2%)
	BN	1.7 (3.5%)	0 (0%)	1.6 (3.3%)	-0.1 (-0.1%)
	D	1.6 (3.3%)	0 (0.1%)	1.5 (3.2%)	-0.1 (-0.1%)
	C	1.4 (2.8%)	0 (0%)	1.5 (3%)	0.1 (0.2%)
	All	1.6 (3.3%)	0 (0%)	1.6 (3.3%)	0 (0%)
Mar	W	1.4 (2.6%)	0 (0%)	1.4 (2.6%)	0 (0%)
	AN	1.4 (2.6%)	0 (0.1%)	1.4 (2.6%)	0 (0.1%)
	BN	1.2 (2.2%)	0 (0%)	1.2 (2.3%)	0 (0.1%)
	D	1.5 (2.8%)	0 (0%)	1.5 (2.7%)	-0.1 (-0.1%)
	C	1.3 (2.4%)	0 (0.1%)	1.2 (2.2%)	0 (-0.1%)
	All	1.4 (2.5%)	0 (0%)	1.3 (2.5%)	0 (0%)
Apr	W	1.2 (2.2%)	0 (0%)	1.2 (2.2%)	0 (0%)
	AN	1.3 (2.3%)	0 (0%)	1.3 (2.3%)	0 (0%)
	BN	1.2 (2.1%)	0 (0%)	1.2 (2.1%)	0 (0%)
	D	1.2 (1.9%)	0.3 (0.4%)	1.1 (1.9%)	0.2 (0.4%)
	C	1.1 (1.7%)	-0.4 (-0.6%)	1.1 (1.9%)	-0.3 (-0.5%)
	All	1.2 (2.1%)	0 (0%)	1.2 (2.1%)	0 (0%)
May	W	2.1 (3.5%)	0 (0%)	2.1 (3.5%)	0 (0%)
	AN	2.5 (4%)	-0.2 (-0.2%)	2.5 (4%)	-0.1 (-0.2%)
	BN	1.9 (3.1%)	-0.3 (-0.4%)	2.2 (3.5%)	0 (0%)
	D	1.9 (2.9%)	0.1 (0.1%)	2 (3.1%)	0.2 (0.2%)
	C	2.1 (3.2%)	0.5 (0.7%)	1.9 (2.8%)	0.2 (0.3%)
	All	2.1 (3.3%)	0 (0%)	2.1 (3.4%)	0 (0.1%)
Jun	W	1.9 (3%)	-0.2 (-0.3%)	2.1 (3.3%)	0 (0%)
	AN	1.5 (2.2%)	-0.7 (-1%)	2.3 (3.4%)	0.1 (0.2%)
	BN	1 (1.5%)	-1.2 (-1.7%)	2.5 (3.7%)	0.3 (0.5%)
	D	0.6 (0.8%)	-0.9 (-1.3%)	1.9 (2.8%)	0.4 (0.6%)
	C	2.4 (3.5%)	0 (0%)	2.3 (3.3%)	-0.1 (-0.2%)
	All	1.5 (2.2%)	-0.6 (-0.8%)	2.2 (3.3%)	0.1 (0.2%)
Jul	W	1.3 (1.9%)	-0.6 (-0.9%)	1.5 (2.1%)	-0.4 (-0.6%)
	AN	0.8 (1.2%)	0 (0%)	0.8 (1.2%)	0 (-0.1%)
	BN	1.2 (1.8%)	0.1 (0.1%)	1.1 (1.7%)	0 (0%)
	D	1.6 (2.3%)	-0.1 (-0.2%)	1.7 (2.5%)	0 (0%)
	C	1.5 (2.1%)	-0.6 (-0.9%)	2.9 (4%)	0.7 (1%)
	All	1.3 (1.9%)	-0.3 (-0.4%)	1.6 (2.3%)	0 (-0.1%)

Alternative 4A_ELT: American River at Watt Avenue					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	2.6 (3.9%)	0.3 (0.4%)	2.2 (3.3%)	-0.1 (-0.1%)
	AN	1.8 (2.6%)	0.1 (0.1%)	1.5 (2.1%)	-0.2 (-0.3%)
	BN	1.9 (2.7%)	0 (0.1%)	0.9 (1.3%)	-0.9 (-1.3%)
	D	3.4 (5%)	0.7 (1%)	2.7 (3.9%)	0 (0%)
	C	3.4 (4.8%)	0.2 (0.3%)	2.7 (3.8%)	-0.5 (-0.7%)
	All	2.7 (3.9%)	0.3 (0.4%)	2.1 (3%)	-0.3 (-0.4%)
Sep	W	2.1 (3.1%)	1.1 (1.7%)	2 (3.1%)	1.1 (1.7%)
	AN	1.8 (2.8%)	1 (1.5%)	2.1 (3.2%)	1.3 (2%)
	BN	1.9 (2.9%)	0.7 (1.1%)	2.1 (3.1%)	0.9 (1.3%)
	D	2 (2.9%)	0.3 (0.5%)	1.8 (2.6%)	0.1 (0.2%)
	C	2.2 (3.2%)	0.2 (0.3%)	2.1 (3%)	0 (0%)
	All	2 (3%)	0.7 (1.1%)	2 (3%)	0.7 (1.1%)
Oct	W	3.8 (6.4%)	0 (-0.1%)	3.7 (6.3%)	-0.1 (-0.2%)
	AN	3.3 (5.5%)	-0.3 (-0.4%)	3.1 (5.3%)	-0.4 (-0.6%)
	BN	3.4 (5.7%)	0 (0%)	3.1 (5.1%)	-0.4 (-0.6%)
	D	3.4 (5.6%)	-0.3 (-0.5%)	3.3 (5.5%)	-0.4 (-0.6%)
	C	2.9 (4.8%)	-0.1 (-0.2%)	2.6 (4.2%)	-0.5 (-0.7%)
	All	3.4 (5.8%)	-0.1 (-0.2%)	3.3 (5.4%)	-0.3 (-0.5%)
Nov	W	1.7 (3%)	-0.2 (-0.4%)	1.7 (3.1%)	-0.1 (-0.2%)
	AN	1.7 (3%)	-0.2 (-0.3%)	1.8 (3.1%)	-0.1 (-0.2%)
	BN	2.2 (4%)	-0.2 (-0.4%)	2.5 (4.4%)	0 (0%)
	D	1.8 (3.2%)	-0.1 (-0.2%)	1.9 (3.4%)	0 (0%)
	C	2 (3.4%)	0.2 (0.3%)	2.2 (3.9%)	0.4 (0.8%)
	All	1.8 (3.3%)	-0.1 (-0.2%)	2 (3.5%)	0 (0%)
Dec	W	1 (2%)	0.1 (0.1%)	1.1 (2.1%)	0.2 (0.3%)
	AN	1 (2%)	0.1 (0.1%)	1.1 (2.2%)	0.2 (0.3%)
	BN	1.2 (2.5%)	0.1 (0.2%)	1.3 (2.7%)	0.2 (0.4%)
	D	0.9 (1.9%)	-0.2 (-0.3%)	1.2 (2.4%)	0.1 (0.2%)
	C	1.1 (2.2%)	0.2 (0.3%)	1.4 (2.8%)	0.4 (0.9%)
	All	1 (2.1%)	0 (0.1%)	1.2 (2.4%)	0.2 (0.4%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.17 American River at the Confluence with the Sacramento River

Table F.1-69. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the American River at the Confluence with the Sacramento River, Year-Round

Alternative 4A_ELT: American River at the Confluence with the Sacramento River					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	47	48	48	48
	AN	46	48	48	48
	BN	46	47	47	47
	D	46	47	47	47
	C	46	48	48	48
	All	46	47	47	48
Feb	W	48	50	50	50
	AN	48	50	50	50
	BN	48	50	50	49
	D	49	51	51	51
	C	51	53	53	53
	All	49	51	51	51
Mar	W	53	54	54	54
	AN	53	55	55	55
	BN	54	55	55	55
	D	55	56	56	56
	C	56	57	57	57
	All	54	55	55	55
Apr	W	57	58	58	58
	AN	58	60	60	60
	BN	59	60	60	60
	D	61	62	62	62
	C	62	63	63	63
	All	59	60	60	60
May	W	61	63	63	63
	AN	63	66	66	66
	BN	63	65	65	65
	D	66	68	68	68
	C	67	68	69	68
	All	64	66	66	66
Jun	W	65	68	67	68
	AN	68	70	69	70
	BN	68	70	69	70
	D	70	71	70	71
	C	70	72	72	72
	All	68	70	69	70
Jul	W	69	71	70	70
	AN	68	69	69	69
	BN	68	69	69	69
	D	69	71	71	71
	C	73	75	74	75
	All	69	71	71	71

Alternative 4A_ELT: American River at the Confluence with the Sacramento River					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	69	71	72	71
	AN	69	71	71	71
	BN	70	72	72	71
	D	69	72	73	72
	C	72	75	75	75
	All	70	72	72	72
Sep	W	66	67	68	68
	AN	67	68	69	69
	BN	67	69	70	70
	D	68	69	70	70
	C	69	71	72	71
	All	67	69	69	69
Oct	W	60	63	63	63
	AN	60	63	63	63
	BN	60	63	63	63
	D	60	63	63	63
	C	62	64	64	64
	All	60	63	63	63
Nov	W	56	58	58	58
	AN	56	58	58	58
	BN	55	58	57	58
	D	56	57	57	57
	C	57	58	58	59
	All	56	58	58	58
Dec	W	49	50	50	51
	AN	49	50	50	50
	BN	48	49	50	50
	D	49	50	49	50
	C	48	49	49	49
	All	49	50	50	50

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Table F.1-70. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the American River at the Confluence with the Sacramento River, Year-Round

Alternative 4A_ELT: American River at the Confluence with the Sacramento River					
Month	Water Year Type	EXISTING CONDITIONS vs. H1_ELT	NAA_ELT vs. H1_ELT	EXISTING CONDITIONS vs. H2_ELT	NAA_ELT vs. H2_ELT
Jan	W	1.4 (3%)	0 (0%)	1.4 (3%)	0 (0.1%)
	AN	1.3 (2.9%)	0 (0.1%)	1.4 (2.9%)	0.1 (0.2%)
	BN	1.3 (2.9%)	0 (-0.1%)	1.4 (3.1%)	0 (0.1%)
	D	1.1 (2.5%)	0 (-0.1%)	1.2 (2.7%)	0.1 (0.2%)
	C	1.4 (3%)	0 (0.1%)	1.5 (3.2%)	0.1 (0.2%)
	All	1.3 (2.8%)	0 (0%)	1.4 (3%)	0.1 (0.1%)
Feb	W	1.6 (3.4%)	0 (0%)	1.6 (3.4%)	0 (0%)
	AN	1.8 (3.6%)	-0.1 (-0.2%)	1.7 (3.6%)	-0.1 (-0.2%)
	BN	1.6 (3.4%)	0 (0%)	1.6 (3.2%)	-0.1 (-0.1%)
	D	1.6 (3.3%)	0 (0.1%)	1.6 (3.2%)	0 (0%)
	C	1.4 (2.7%)	0 (-0.1%)	1.5 (2.9%)	0 (0.1%)
	All	1.6 (3.3%)	0 (0%)	1.6 (3.3%)	0 (0%)
Mar	W	1.3 (2.5%)	0 (0%)	1.3 (2.5%)	0 (0%)
	AN	1.3 (2.5%)	0 (0.1%)	1.3 (2.5%)	0 (0.1%)
	BN	1.1 (2.1%)	0 (0%)	1.1 (2.1%)	0 (0%)
	D	1.5 (2.8%)	0 (0%)	1.5 (2.7%)	0 (-0.1%)
	C	1.2 (2.2%)	0 (0.1%)	1.2 (2.1%)	0 (0%)
	All	1.3 (2.4%)	0 (0%)	1.3 (2.4%)	0 (0%)
Apr	W	1.2 (2.1%)	0 (0%)	1.2 (2.1%)	0 (0%)
	AN	1.3 (2.2%)	0 (0%)	1.3 (2.2%)	0 (0%)
	BN	1.2 (2.1%)	0 (-0.1%)	1.2 (2.1%)	0 (0%)
	D	1.1 (1.9%)	0.2 (0.3%)	1.1 (1.8%)	0.1 (0.2%)
	C	1 (1.6%)	-0.3 (-0.5%)	1 (1.7%)	-0.3 (-0.4%)
	All	1.2 (2%)	0 (0%)	1.2 (2%)	0 (0%)
May	W	2.2 (3.6%)	0 (0%)	2.2 (3.6%)	0 (0%)
	AN	2.6 (4.1%)	-0.2 (-0.2%)	2.6 (4.1%)	-0.1 (-0.2%)
	BN	1.9 (3.1%)	-0.3 (-0.4%)	2.2 (3.5%)	0 (0%)
	D	1.9 (2.9%)	0 (0%)	2 (3%)	0.1 (0.1%)
	C	2.1 (3.1%)	0.5 (0.7%)	1.9 (2.8%)	0.2 (0.4%)
	All	2.1 (3.3%)	0 (0%)	2.2 (3.4%)	0 (0.1%)
Jun	W	2 (3.1%)	-0.3 (-0.4%)	2.3 (3.5%)	0 (0%)
	AN	1.4 (2.1%)	-0.7 (-1.1%)	2.2 (3.3%)	0.1 (0.2%)
	BN	1 (1.4%)	-1.2 (-1.8%)	2.5 (3.7%)	0.3 (0.4%)
	D	0.6 (0.9%)	-0.9 (-1.3%)	1.9 (2.7%)	0.4 (0.6%)
	C	2.3 (3.3%)	-0.1 (-0.1%)	2.3 (3.3%)	-0.1 (-0.1%)
	All	1.5 (2.2%)	-0.6 (-0.9%)	2.2 (3.3%)	0.1 (0.2%)
Jul	W	1.4 (2.1%)	-0.6 (-0.9%)	1.6 (2.3%)	-0.4 (-0.6%)
	AN	0.9 (1.4%)	0 (0%)	0.9 (1.3%)	-0.1 (-0.1%)
	BN	1.4 (2%)	0.1 (0.1%)	1.3 (1.9%)	0 (0%)
	D	1.7 (2.5%)	-0.2 (-0.3%)	1.9 (2.7%)	0 (0%)
	C	1.4 (2%)	-0.7 (-0.9%)	2.7 (3.7%)	0.6 (0.8%)
	All	1.4 (2%)	-0.3 (-0.5%)	1.7 (2.4%)	-0.1 (-0.1%)

Alternative 4A_ELT: American River at the Confluence with the Sacramento River					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	2.9 (4.2%)	0.3 (0.4%)	2.5 (3.6%)	-0.1 (-0.1%)
	AN	1.9 (2.7%)	0.1 (0.1%)	1.6 (2.3%)	-0.2 (-0.3%)
	BN	2 (2.9%)	0.1 (0.1%)	1 (1.4%)	-1 (-1.3%)
	D	3.5 (5.1%)	0.7 (1%)	2.8 (4.1%)	0 (0%)
	C	3.2 (4.4%)	0.2 (0.2%)	2.7 (3.7%)	-0.3 (-0.5%)
	All	2.8 (4%)	0.3 (0.4%)	2.2 (3.1%)	-0.3 (-0.4%)
Sep	W	2.2 (3.4%)	1.3 (1.9%)	2.2 (3.3%)	1.2 (1.8%)
	AN	2 (3%)	1 (1.5%)	2.4 (3.5%)	1.4 (2.1%)
	BN	2.2 (3.2%)	0.7 (1.1%)	2.3 (3.4%)	0.9 (1.3%)
	D	2 (2.9%)	0.2 (0.4%)	1.9 (2.7%)	0.1 (0.2%)
	C	2.1 (3%)	0.2 (0.2%)	1.9 (2.7%)	0 (0%)
	All	2.1 (3.1%)	0.8 (1.1%)	2.1 (3.2%)	0.8 (1.1%)
Oct	W	3.4 (5.7%)	0 (0%)	3.3 (5.5%)	-0.1 (-0.2%)
	AN	3 (5%)	-0.2 (-0.3%)	2.9 (4.8%)	-0.3 (-0.5%)
	BN	3 (5.1%)	0 (0%)	2.8 (4.6%)	-0.3 (-0.5%)
	D	2.9 (4.9%)	-0.3 (-0.5%)	2.9 (4.8%)	-0.4 (-0.6%)
	C	2.6 (4.2%)	-0.1 (-0.2%)	2.3 (3.7%)	-0.4 (-0.6%)
	All	3.1 (5.1%)	-0.1 (-0.2%)	2.9 (4.8%)	-0.3 (-0.4%)
Nov	W	1.6 (2.8%)	-0.2 (-0.4%)	1.6 (2.9%)	-0.2 (-0.3%)
	AN	1.6 (2.9%)	-0.2 (-0.4%)	1.7 (2.9%)	-0.2 (-0.3%)
	BN	2 (3.6%)	-0.3 (-0.5%)	2.3 (4.1%)	0 (0%)
	D	1.6 (2.9%)	-0.1 (-0.2%)	1.7 (3.1%)	0 (-0.1%)
	C	1.8 (3.2%)	0.2 (0.3%)	2.1 (3.7%)	0.4 (0.7%)
	All	1.7 (3%)	-0.1 (-0.3%)	1.8 (3.3%)	0 (0%)
Dec	W	0.9 (1.9%)	0 (0.1%)	1 (2.1%)	0.1 (0.3%)
	AN	1 (2%)	0 (0.1%)	1.1 (2.2%)	0.1 (0.3%)
	BN	1.2 (2.5%)	0.1 (0.2%)	1.3 (2.7%)	0.2 (0.4%)
	D	0.9 (1.7%)	-0.2 (-0.3%)	1.1 (2.3%)	0.1 (0.2%)
	C	1.1 (2.2%)	0.2 (0.4%)	1.3 (2.8%)	0.5 (0.9%)
	All	1 (2%)	0 (0.1%)	1.1 (2.3%)	0.2 (0.4%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.18 Stanislaus River at Knights Ferry

Table F.1-71. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the Stanislaus River at Knights Ferry, Year-Round

Alternative 4A_ELT: Stanislaus River at Knights Ferry					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	49	50	50	50
	AN	49	50	50	50
	BN	49	50	50	50
	D	48	50	50	50
	C	49	50	50	50
	All	49	50	50	50
Feb	W	49	50	50	50
	AN	49	50	50	50
	BN	49	51	51	51
	D	49	50	50	50
	C	50	51	51	51
	All	49	50	50	50
Mar	W	49	50	50	50
	AN	49	51	51	51
	BN	51	52	52	52
	D	51	53	53	53
	C	52	54	54	54
	All	50	52	52	52
Apr	W	50	51	51	51
	AN	50	52	52	52
	BN	51	53	53	53
	D	52	53	53	53
	C	53	55	55	55
	All	51	53	53	53
May	W	51	53	53	53
	AN	53	54	54	54
	BN	54	56	56	56
	D	55	56	56	56
	C	56	58	58	58
	All	53	55	55	55
Jun	W	54	55	55	55
	AN	56	57	57	57
	BN	58	59	59	59
	D	59	61	61	61
	C	60	62	62	62
	All	57	58	58	58
Jul	W	57	58	58	58
	AN	59	61	61	61
	BN	60	62	62	62
	D	61	63	63	63
	C	62	64	64	64
	All	59	61	61	61

Alternative 4A_ELT: Stanislaus River at Knights Ferry					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	58	59	59	59
	AN	60	61	61	61
	BN	60	62	62	62
	D	61	63	63	63
	C	62	65	65	64
	All	60	62	62	62
Sep	W	59	60	60	60
	AN	60	62	62	62
	BN	61	63	63	63
	D	62	63	63	63
	C	63	65	65	65
	All	61	62	62	62
Oct	W	59	61	61	61
	AN	59	61	61	61
	BN	59	60	60	60
	D	58	60	60	60
	C	60	62	62	62
	All	59	61	61	61
Nov	W	56	58	58	58
	AN	56	58	58	58
	BN	56	57	57	57
	D	56	57	57	57
	C	57	59	59	59
	All	56	58	58	58
Dec	W	52	53	53	53
	AN	52	53	53	53
	BN	51	53	53	53
	D	51	52	52	52
	C	52	53	53	53
	All	51	53	53	53

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

Table F.1-72. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the Stanislaus River at Knights Ferry, Year-Round

Alternative 4A_ELT: Stanislaus River at Knights Ferry					
Month	Water Year Type	EXISTING CONDITIONS vs. H1_ELT	NAA_ELT vs. H1_ELT	EXISTING CONDITIONS vs. H2_ELT	NAA_ELT vs. H2_ELT
Jan	W	1.4 (2.8%)	0 (0%)	1.4 (2.8%)	0 (0%)
	AN	1.5 (3%)	0 (0%)	1.5 (3%)	0 (0%)
	BN	1.5 (3%)	0 (0%)	1.5 (3%)	0 (0%)
	D	1.4 (3%)	0 (0%)	1.4 (3%)	0 (0%)
	C	1.4 (2.9%)	0 (0%)	1.4 (2.9%)	0 (0%)
	All	1.4 (2.9%)	0 (0%)	1.4 (2.9%)	0 (0%)
Feb	W	1.3 (2.6%)	0 (0%)	1.3 (2.6%)	0 (0%)
	AN	1.5 (3%)	0 (0%)	1.5 (3%)	0 (0%)
	BN	1.5 (3.1%)	0 (0%)	1.5 (3.1%)	0 (0%)
	D	1.5 (3.1%)	0 (0%)	1.5 (3.1%)	0 (0%)
	C	1.5 (3%)	0 (0%)	1.5 (3%)	0 (0%)
	All	1.4 (2.9%)	0 (0%)	1.4 (2.9%)	0 (0%)
Mar	W	1.3 (2.7%)	0 (0%)	1.3 (2.7%)	0 (0%)
	AN	1.7 (3.5%)	0 (0%)	1.7 (3.5%)	0 (0%)
	BN	1.5 (3%)	0 (0%)	1.5 (3%)	0 (0%)
	D	1.6 (3.2%)	0 (0%)	1.6 (3.2%)	0 (0%)
	C	1.4 (2.7%)	0 (0%)	1.4 (2.7%)	0 (0%)
	All	1.5 (3%)	0 (0%)	1.5 (3%)	0 (0%)
Apr	W	1.5 (2.9%)	0 (0%)	1.5 (2.9%)	0 (0%)
	AN	1.6 (3.2%)	0 (0%)	1.6 (3.2%)	0 (0%)
	BN	1.7 (3.3%)	0 (0%)	1.7 (3.4%)	0 (0%)
	D	1.7 (3.2%)	0 (0%)	1.7 (3.2%)	0 (0%)
	C	1.6 (3%)	0 (0%)	1.6 (3%)	0 (0%)
	All	1.6 (3.1%)	0 (0%)	1.6 (3.1%)	0 (0%)
May	W	1.5 (3%)	0 (0%)	1.5 (3%)	0 (0%)
	AN	1.6 (3%)	0 (0%)	1.6 (3%)	0 (0%)
	BN	1.9 (3.5%)	0 (0%)	1.9 (3.5%)	0 (0%)
	D	1.8 (3.3%)	0 (0%)	1.8 (3.3%)	0 (0%)
	C	1.8 (3.3%)	0 (0%)	1.8 (3.3%)	0 (0%)
	All	1.7 (3.2%)	0 (0%)	1.7 (3.2%)	0 (0%)
Jun	W	1.5 (2.7%)	0 (0%)	1.4 (2.7%)	0 (0%)
	AN	1.6 (2.9%)	0 (0%)	1.6 (2.9%)	0 (0%)
	BN	1.9 (3.3%)	0 (0%)	1.9 (3.3%)	0 (0%)
	D	2.1 (3.5%)	0 (0%)	2.1 (3.5%)	0 (0%)
	C	2 (3.3%)	0 (0%)	2 (3.3%)	0 (0%)
	All	1.8 (3.1%)	0 (0%)	1.8 (3.1%)	0 (0%)
Jul	W	1.5 (2.6%)	0 (0%)	1.5 (2.6%)	0 (0%)
	AN	1.8 (3.1%)	0 (0%)	1.8 (3.1%)	0 (0%)
	BN	1.9 (3.2%)	0 (0%)	1.9 (3.2%)	0 (0%)
	D	2.1 (3.4%)	0 (0%)	2.1 (3.4%)	0 (0%)
	C	2.1 (3.4%)	0.1 (0.1%)	2 (3.3%)	0 (0%)
	All	1.8 (3.1%)	0 (0%)	1.8 (3.1%)	0 (0%)

Alternative 4A_ELT: Stanislaus River at Knights Ferry					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	1.6 (2.8%)	0 (0%)	1.6 (2.8%)	0 (0%)
	AN	1.7 (2.9%)	0 (0%)	1.7 (2.9%)	0 (0%)
	BN	1.8 (2.9%)	0 (0%)	1.8 (2.9%)	0 (0%)
	D	1.8 (2.9%)	0 (0%)	1.8 (2.9%)	0 (0%)
	C	2.3 (3.7%)	0 (0%)	2 (3.2%)	-0.3 (-0.4%)
	All	1.8 (3%)	0 (0%)	1.8 (2.9%)	-0.1 (-0.1%)
Sep	W	1.6 (2.7%)	0 (0%)	1.6 (2.7%)	0 (0%)
	AN	1.7 (2.8%)	0 (0%)	1.7 (2.8%)	0 (0%)
	BN	1.7 (2.8%)	0 (0%)	1.7 (2.8%)	0 (0%)
	D	1.8 (2.9%)	0 (0%)	1.8 (2.9%)	0 (0%)
	C	2.1 (3.4%)	0 (0%)	1.9 (3%)	-0.2 (-0.3%)
	All	1.8 (2.9%)	0 (0%)	1.7 (2.8%)	0 (-0.1%)
Oct	W	1.6 (2.7%)	0 (0%)	1.6 (2.7%)	0 (0%)
	AN	1.4 (2.4%)	0 (0%)	1.4 (2.4%)	0 (0%)
	BN	1.6 (2.7%)	0 (0%)	1.5 (2.6%)	0 (0%)
	D	1.6 (2.8%)	0 (0%)	1.6 (2.8%)	0 (0%)
	C	1.7 (2.9%)	0 (0%)	1.7 (2.8%)	0 (0%)
	All	1.6 (2.7%)	0 (0%)	1.6 (2.7%)	0 (0%)
Nov	W	1.5 (2.6%)	0 (0%)	1.5 (2.6%)	0 (0%)
	AN	1.4 (2.5%)	0 (0%)	1.4 (2.5%)	0 (0%)
	BN	1.5 (2.6%)	0 (0%)	1.5 (2.6%)	0 (0%)
	D	1.5 (2.6%)	0 (0%)	1.5 (2.6%)	0 (0%)
	C	1.5 (2.7%)	0 (0%)	1.5 (2.7%)	0 (0%)
	All	1.5 (2.6%)	0 (0%)	1.5 (2.6%)	0 (0%)
Dec	W	1.4 (2.7%)	0 (0%)	1.4 (2.7%)	0 (0%)
	AN	1.4 (2.7%)	0 (0%)	1.4 (2.6%)	0 (0%)
	BN	1.5 (2.8%)	0 (0%)	1.5 (2.8%)	0 (0%)
	D	1.4 (2.7%)	0 (0%)	1.4 (2.7%)	0 (0%)
	C	1.4 (2.8%)	0 (0%)	1.4 (2.8%)	0 (0%)
	All	1.4 (2.7%)	0 (0%)	1.4 (2.7%)	0 (0%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.19 Stanislaus River at Orange Blossom Bridge

Table F.1-73. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the Stanislaus River at Orange Blossom Bridge, Year-Round

Alternative 4A_ELT: Stanislaus River at Orange Blossom Bridge					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	48	49	49	49
	AN	48	49	49	49
	BN	48	49	49	49
	D	47	48	48	48
	C	48	49	49	49
	All	48	49	49	49
Feb	W	49	50	50	50
	AN	49	51	51	51
	BN	49	51	51	51
	D	49	51	51	51
	C	50	52	52	52
	All	49	51	51	51
Mar	W	49	51	51	51
	AN	50	52	52	52
	BN	52	53	53	53
	D	52	54	54	54
	C	53	54	54	54
	All	51	53	53	53
Apr	W	50	52	52	52
	AN	51	53	53	53
	BN	52	54	54	54
	D	53	54	54	54
	C	55	56	56	56
	All	52	54	54	54
May	W	53	54	54	54
	AN	54	56	56	56
	BN	55	57	57	57
	D	56	58	58	58
	C	58	60	60	60
	All	55	57	57	57
Jun	W	56	57	57	57
	AN	58	60	60	60
	BN	60	62	62	62
	D	62	65	65	65
	C	63	65	65	65
	All	59	61	61	61
Jul	W	60	61	61	61
	AN	63	65	65	65
	BN	63	65	65	65
	D	64	66	66	66
	C	65	67	67	67
	All	63	65	65	65

Alternative 4A_ELT: Stanislaus River at Orange Blossom Bridge					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	60	62	62	62
	AN	63	64	64	64
	BN	63	65	65	65
	D	64	66	66	66
	C	65	67	67	67
	All	63	64	64	64
Sep	W	60	62	62	62
	AN	63	64	64	64
	BN	63	65	65	65
	D	63	65	65	65
	C	64	66	66	66
	All	62	64	64	64
Oct	W	59	61	61	61
	AN	59	61	61	61
	BN	59	60	60	60
	D	59	60	60	60
	C	60	62	62	62
	All	59	61	61	61
Nov	W	55	56	56	56
	AN	55	56	56	56
	BN	55	56	56	56
	D	55	56	56	56
	C	56	57	57	57
	All	55	57	57	57
Dec	W	50	52	52	52
	AN	50	51	51	51
	BN	49	51	51	51
	D	50	51	51	51
	C	50	51	51	51
	All	50	51	51	51

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Table F.1-74. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the Stanislaus River at Orange Blossom Bridge, Year-Round

Alternative 4A_ELT: Stanislaus River at Orange Blossom Bridge					
Month	Water Year Type	EXISTING CONDITIONS vs. H1_ELT	NAA_ELT vs. H1_ELT	EXISTING CONDITIONS vs. H2_ELT	NAA_ELT vs. H2_ELT
Jan	W	1.3 (2.8%)	0 (0%)	1.3 (2.8%)	0 (0%)
	AN	1.5 (3.1%)	0 (0%)	1.5 (3.1%)	0 (0%)
	BN	1.4 (2.9%)	0 (0%)	1.4 (2.9%)	0 (0%)
	D	1.3 (2.9%)	0 (0%)	1.3 (2.9%)	0 (0%)
	C	1.3 (2.6%)	0 (0%)	1.3 (2.6%)	0 (0%)
	All	1.4 (2.8%)	0 (0%)	1.4 (2.8%)	0 (0%)
Feb	W	1.3 (2.6%)	0 (0%)	1.3 (2.6%)	0 (0%)
	AN	1.4 (2.9%)	0 (0%)	1.4 (2.9%)	0 (0%)
	BN	1.5 (3.1%)	0 (0%)	1.5 (3.1%)	0 (0%)
	D	1.6 (3.3%)	0 (0%)	1.6 (3.3%)	0 (0%)
	C	1.6 (3.1%)	0 (0%)	1.6 (3.1%)	0 (0%)
	All	1.5 (3%)	0 (0%)	1.5 (3%)	0 (0%)
Mar	W	1.3 (2.6%)	0 (0%)	1.3 (2.5%)	0 (0%)
	AN	1.7 (3.5%)	0 (0%)	1.7 (3.5%)	0 (0%)
	BN	1.5 (2.9%)	0 (0%)	1.5 (2.9%)	0 (0%)
	D	1.7 (3.3%)	0 (0%)	1.7 (3.3%)	0 (0%)
	C	1.5 (2.7%)	0 (0%)	1.5 (2.7%)	0 (0%)
	All	1.5 (2.9%)	0 (0%)	1.5 (2.9%)	0 (0%)
Apr	W	1.5 (2.9%)	0 (0%)	1.5 (2.9%)	0 (0%)
	AN	1.6 (3.1%)	0 (0%)	1.6 (3.1%)	0 (0%)
	BN	1.8 (3.4%)	0 (0%)	1.8 (3.4%)	0 (0%)
	D	1.7 (3.3%)	0 (0%)	1.7 (3.3%)	0 (0%)
	C	1.7 (3.1%)	0 (0%)	1.7 (3.1%)	0 (0%)
	All	1.6 (3.1%)	0 (0%)	1.6 (3.1%)	0 (0%)
May	W	1.6 (3%)	0 (0%)	1.6 (3%)	0 (0%)
	AN	1.7 (3.1%)	0 (0%)	1.7 (3.1%)	0 (0%)
	BN	2.2 (3.9%)	0 (0%)	2.2 (3.9%)	0 (0%)
	D	1.9 (3.5%)	0 (0%)	1.9 (3.5%)	0 (0%)
	C	2 (3.4%)	0 (0%)	2 (3.4%)	0 (0%)
	All	1.8 (3.3%)	0 (0%)	1.8 (3.3%)	0 (0%)
Jun	W	1.4 (2.5%)	0 (0%)	1.4 (2.5%)	0 (0%)
	AN	1.7 (3%)	0 (0%)	1.7 (3%)	0 (0%)
	BN	2.1 (3.5%)	0 (0.1%)	2.1 (3.4%)	0 (0%)
	D	2.5 (4%)	0 (0%)	2.5 (4%)	0 (0%)
	C	2.1 (3.4%)	0 (0%)	2.2 (3.4%)	0 (0%)
	All	1.9 (3.2%)	0 (0%)	1.9 (3.2%)	0 (0%)
Jul	W	1.4 (2.4%)	0 (0%)	1.4 (2.4%)	0 (0%)
	AN	2 (3.3%)	0 (0%)	2 (3.3%)	0 (0%)
	BN	2 (3.2%)	0 (0%)	2 (3.2%)	0 (0%)
	D	2.3 (3.5%)	0 (0%)	2.3 (3.6%)	0 (0%)
	C	2.3 (3.5%)	0.1 (0.1%)	2.2 (3.3%)	0 (0%)
	All	1.9 (3.1%)	0 (0%)	1.9 (3.1%)	0 (0%)

Alternative 4A_ELT: Stanislaus River at Orange Blossom Bridge					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	1.8 (2.9%)	0 (0%)	1.8 (2.9%)	0 (0%)
	AN	1.8 (3%)	0 (0%)	1.8 (3%)	0 (0%)
	BN	1.7 (2.8%)	0 (0%)	1.7 (2.8%)	0 (0%)
	D	1.8 (2.8%)	0 (0%)	1.8 (2.8%)	0 (0%)
	C	2.3 (3.6%)	0 (0%)	2 (3.1%)	-0.3 (-0.4%)
	All	1.9 (3%)	0 (0%)	1.8 (2.9%)	-0.1 (-0.1%)
Sep	W	1.7 (2.8%)	0 (0%)	1.7 (2.8%)	0 (0%)
	AN	1.9 (3%)	0 (0%)	1.9 (3%)	0 (0%)
	BN	1.8 (2.9%)	0 (0%)	1.8 (2.9%)	0 (0%)
	D	1.8 (2.8%)	0 (0%)	1.8 (2.8%)	0 (0%)
	C	2.1 (3.2%)	0 (0%)	1.9 (2.9%)	-0.2 (-0.3%)
	All	1.8 (2.9%)	0 (0%)	1.8 (2.9%)	0 (-0.1%)
Oct	W	1.6 (2.6%)	0 (0%)	1.6 (2.6%)	0 (0%)
	AN	1.4 (2.4%)	0 (0%)	1.4 (2.4%)	0 (0%)
	BN	1.4 (2.5%)	0 (0%)	1.4 (2.5%)	0 (0%)
	D	1.6 (2.7%)	0 (0%)	1.6 (2.7%)	0 (0%)
	C	1.7 (2.8%)	0 (0%)	1.7 (2.8%)	0 (0%)
	All	1.5 (2.6%)	0 (0%)	1.5 (2.6%)	0 (0%)
Nov	W	1.4 (2.5%)	0 (0%)	1.4 (2.5%)	0 (0%)
	AN	1.3 (2.4%)	0 (0%)	1.3 (2.4%)	0 (0%)
	BN	1.4 (2.6%)	0 (0%)	1.4 (2.6%)	0 (0%)
	D	1.3 (2.5%)	0 (0%)	1.3 (2.5%)	0 (0%)
	C	1.4 (2.5%)	0 (0%)	1.4 (2.5%)	0 (0%)
	All	1.4 (2.5%)	0 (0%)	1.4 (2.5%)	0 (0%)
Dec	W	1.3 (2.7%)	0 (0%)	1.3 (2.7%)	0 (0%)
	AN	1.3 (2.6%)	0 (0%)	1.3 (2.6%)	0 (0%)
	BN	1.4 (2.8%)	0 (0%)	1.4 (2.8%)	0 (0%)
	D	1.3 (2.5%)	0 (0%)	1.3 (2.5%)	0 (0%)
	C	1.3 (2.5%)	0 (0%)	1.3 (2.5%)	0 (0%)
	All	1.3 (2.6%)	0 (0%)	1.3 (2.6%)	0 (0%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.20 Stanislaus River at Riverbank

Table F.1-75. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the Stanislaus River at Riverbank, Year-Round

Alternative 4A_ELT: Stanislaus River at Riverbank					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	47	48	48	48
	AN	47	48	48	48
	BN	46	48	48	48
	D	45	47	47	47
	C	46	47	47	47
	All	46	48	48	48
Feb	W	49	51	51	51
	AN	50	51	51	51
	BN	50	51	51	51
	D	50	51	51	51
	C	51	52	52	52
	All	50	51	51	51
Mar	W	51	52	52	52
	AN	52	53	53	53
	BN	53	55	55	55
	D	54	56	56	56
	C	54	55	55	55
	All	52	54	54	54
Apr	W	52	53	53	53
	AN	53	55	55	55
	BN	54	56	56	56
	D	54	56	56	56
	C	57	58	58	58
	All	54	55	55	55
May	W	56	57	57	57
	AN	57	59	59	59
	BN	58	60	60	60
	D	59	61	61	61
	C	60	62	62	62
	All	58	59	59	59
Jun	W	60	61	61	61
	AN	62	64	64	64
	BN	64	66	66	66
	D	66	69	69	69
	C	66	68	68	68
	All	63	65	65	65
Jul	W	65	67	67	67
	AN	68	70	70	70
	BN	68	70	70	70
	D	68	70	70	70
	C	68	70	70	70
	All	67	69	69	69

Alternative 4A_ELT: Stanislaus River at Riverbank					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	65	67	67	67
	AN	67	69	69	69
	BN	67	68	68	68
	D	68	69	69	69
	C	67	69	69	69
	All	66	68	68	68
Sep	W	64	65	65	65
	AN	66	68	68	68
	BN	66	67	67	67
	D	66	68	68	68
	C	66	68	68	68
	All	65	67	67	67
Oct	W	59	61	61	61
	AN	59	61	61	61
	BN	59	60	60	60
	D	59	60	60	60
	C	61	62	62	62
	All	60	61	61	61
Nov	W	53	55	55	55
	AN	53	54	54	54
	BN	53	54	54	54
	D	53	54	54	54
	C	54	55	55	55
	All	53	54	54	54
Dec	W	48	49	49	49
	AN	48	49	49	49
	BN	47	48	48	48
	D	47	48	48	48
	C	47	48	48	48
	All	47	49	49	49

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Table F.1-76. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the Stanislaus River at Riverbank, Year-Round

Alternative 4A_ELT: Stanislaus River at Riverbank					
Month	Water Year Type	EXISTING CONDITIONS vs. H1_ELT	NAA_ELT vs. H1_ELT	EXISTING CONDITIONS vs. H2_ELT	NAA_ELT vs. H2_ELT
Jan	W	1.3 (2.8%)	0 (0%)	1.3 (2.8%)	0 (0%)
	AN	1.4 (3.1%)	0 (0%)	1.4 (3.1%)	0 (0%)
	BN	1.3 (2.7%)	0 (0%)	1.3 (2.7%)	0 (0%)
	D	1.2 (2.7%)	0 (0%)	1.2 (2.7%)	0 (0%)
	C	1.2 (2.6%)	0 (0%)	1.2 (2.6%)	0 (0%)
	All	1.3 (2.8%)	0 (0%)	1.3 (2.8%)	0 (0%)
Feb	W	1.2 (2.5%)	0 (0%)	1.2 (2.5%)	0 (0%)
	AN	1.4 (2.8%)	0 (0%)	1.4 (2.8%)	0 (0%)
	BN	1.6 (3.1%)	0 (0%)	1.6 (3.1%)	0 (0%)
	D	1.7 (3.3%)	0 (0%)	1.6 (3.3%)	0 (0%)
	C	1.6 (3.1%)	0 (0%)	1.6 (3.1%)	0 (0%)
	All	1.4 (2.9%)	0 (0%)	1.4 (2.9%)	0 (0%)
Mar	W	1.1 (2.1%)	0 (0%)	1.1 (2.1%)	0 (0%)
	AN	1.7 (3.3%)	0 (0%)	1.7 (3.3%)	0 (0%)
	BN	1.3 (2.5%)	0 (0%)	1.3 (2.5%)	0 (0%)
	D	1.7 (3.2%)	0 (0%)	1.7 (3.2%)	0 (0%)
	C	1.4 (2.6%)	0 (0%)	1.4 (2.6%)	0 (0%)
	All	1.4 (2.7%)	0 (0%)	1.4 (2.7%)	0 (0%)
Apr	W	1.4 (2.7%)	0 (0%)	1.4 (2.7%)	0 (0%)
	AN	1.6 (2.9%)	0 (0%)	1.6 (2.9%)	0 (0%)
	BN	1.8 (3.4%)	0 (0%)	1.8 (3.4%)	0 (0%)
	D	1.7 (3.2%)	0 (0%)	1.7 (3.2%)	0 (0%)
	C	1.7 (3%)	0 (0%)	1.7 (3%)	0 (0%)
	All	1.6 (3%)	0 (0%)	1.6 (3%)	0 (0%)
May	W	1.6 (3%)	0 (0%)	1.6 (3%)	0 (0%)
	AN	1.9 (3.3%)	0 (0%)	1.9 (3.3%)	0 (0%)
	BN	2.4 (4.2%)	0 (0%)	2.4 (4.2%)	0 (0%)
	D	2.1 (3.6%)	0 (0%)	2.1 (3.6%)	0 (0%)
	C	2 (3.3%)	0 (0%)	2 (3.4%)	0 (0%)
	All	2 (3.4%)	0 (0%)	2 (3.4%)	0 (0%)
Jun	W	1.2 (2%)	0 (0%)	1.2 (2%)	0 (0%)
	AN	1.9 (3%)	0 (0%)	1.9 (3%)	0 (0%)
	BN	2 (3.1%)	0 (0.1%)	2 (3.1%)	0 (0%)
	D	2.4 (3.6%)	0 (0%)	2.4 (3.6%)	0 (0%)
	C	2 (3.1%)	0 (0%)	2.1 (3.1%)	0 (0%)
	All	1.8 (2.9%)	0 (0%)	1.8 (2.9%)	0 (0%)
Jul	W	1.4 (2.1%)	0 (0%)	1.4 (2.1%)	0 (0%)
	AN	2 (2.9%)	0 (0%)	2 (2.9%)	0 (0%)
	BN	1.8 (2.7%)	0 (0%)	1.8 (2.7%)	0 (0%)
	D	2.2 (3.2%)	0 (0%)	2.2 (3.2%)	0 (0%)
	C	2 (2.9%)	0 (0%)	2 (2.9%)	0 (0%)
	All	1.8 (2.7%)	0 (0%)	1.8 (2.7%)	0 (0%)

Alternative 4A_ELT: Stanislaus River at Riverbank					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	1.8 (2.8%)	0 (0%)	1.8 (2.9%)	0 (0%)
	AN	1.8 (2.7%)	0 (0%)	1.8 (2.7%)	0 (0%)
	BN	1.6 (2.5%)	0 (0%)	1.6 (2.5%)	0 (0%)
	D	1.7 (2.4%)	0 (0%)	1.7 (2.4%)	0 (0%)
	C	2.1 (3.1%)	0 (0%)	1.8 (2.7%)	-0.2 (-0.4%)
	All	1.8 (2.7%)	0 (0%)	1.8 (2.7%)	0 (-0.1%)
Sep	W	1.7 (2.7%)	0 (0%)	1.7 (2.7%)	0 (0%)
	AN	1.9 (2.9%)	0 (0%)	1.9 (2.9%)	0 (0%)
	BN	1.8 (2.7%)	0 (0%)	1.8 (2.7%)	0 (0%)
	D	1.8 (2.7%)	0 (0%)	1.8 (2.7%)	0 (0%)
	C	1.9 (2.9%)	0 (0%)	1.7 (2.7%)	-0.2 (-0.3%)
	All	1.8 (2.8%)	0 (0%)	1.8 (2.7%)	0 (-0.1%)
Oct	W	1.4 (2.4%)	0 (0%)	1.4 (2.4%)	0 (0%)
	AN	1.3 (2.2%)	0 (0%)	1.3 (2.2%)	0 (0%)
	BN	1.2 (2.1%)	0 (0%)	1.2 (2.1%)	0 (0%)
	D	1.4 (2.3%)	0 (0%)	1.4 (2.3%)	0 (0%)
	C	1.5 (2.5%)	0 (0%)	1.5 (2.5%)	0 (0%)
	All	1.4 (2.3%)	0 (0%)	1.4 (2.3%)	0 (0%)
Nov	W	1.3 (2.4%)	0 (0%)	1.3 (2.4%)	0 (0%)
	AN	1.2 (2.3%)	0 (0%)	1.2 (2.3%)	0 (0%)
	BN	1.2 (2.3%)	0 (0%)	1.2 (2.3%)	0 (0%)
	D	1.2 (2.2%)	0 (0%)	1.2 (2.2%)	0 (0%)
	C	1.2 (2.3%)	0 (0%)	1.2 (2.3%)	0 (0%)
	All	1.2 (2.3%)	0 (0%)	1.2 (2.3%)	0 (0%)
Dec	W	1.3 (2.7%)	0 (0%)	1.3 (2.7%)	0 (0%)
	AN	1.2 (2.5%)	0 (0%)	1.2 (2.5%)	0 (0%)
	BN	1.2 (2.6%)	0 (0%)	1.2 (2.6%)	0 (0%)
	D	1.1 (2.3%)	0 (0%)	1.1 (2.3%)	0 (0%)
	C	1.1 (2.4%)	0 (0%)	1.1 (2.4%)	0 (0%)
	All	1.2 (2.5%)	0 (0%)	1.2 (2.5%)	0 (0%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

F.1.2.21 Stanislaus River at the Confluence with the San Joaquin River

Table F.1-77. Mean Monthly Water Temperatures (°F) for Alternative 4A_ELT Model Scenarios in the Stanislaus River at the Confluence with the San Joaquin River, Year-Round

Alternative 4A_ELT: Stanislaus River at the Confluence with the San Joaquin River					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Jan	W	46	48	48	48
	AN	46	47	47	47
	BN	46	47	47	47
	D	45	46	46	46
	C	45	46	46	46
	All	46	47	47	47
Feb	W	50	51	51	51
	AN	50	52	52	52
	BN	50	51	51	51
	D	50	52	52	52
	C	51	53	53	53
	All	50	52	52	52
Mar	W	52	53	53	53
	AN	53	54	54	54
	BN	54	55	55	55
	D	55	57	57	57
	C	55	56	56	56
	All	54	55	55	55
Apr	W	54	55	55	55
	AN	55	57	57	57
	BN	56	58	58	58
	D	57	58	58	58
	C	59	60	60	60
	All	56	57	57	57
May	W	59	60	60	60
	AN	60	62	62	62
	BN	60	63	63	63
	D	61	64	64	64
	C	63	65	65	65
	All	60	62	62	62
Jun	W	62	64	64	64
	AN	65	67	67	67
	BN	66	68	68	68
	D	68	70	70	70
	C	68	70	70	70
	All	65	67	67	67
Jul	W	68	69	69	69
	AN	70	72	72	72
	BN	70	71	71	71
	D	70	72	72	72
	C	70	72	72	72
	All	69	71	71	71

Alternative 4A_ELT: Stanislaus River at the Confluence with the San Joaquin River					
Month	Water Year Type	EXISTING CONDITIONS	NAA_ELT	A4A_ELT	
				H1_ELT	H2_ELT
Aug	W	67	69	69	69
	AN	69	70	70	70
	BN	68	70	70	70
	D	69	71	71	71
	C	69	70	70	70
	All	68	70	70	70
Sep	W	65	67	67	67
	AN	67	69	69	69
	BN	67	68	68	68
	D	67	69	69	69
	C	67	68	68	68
	All	66	68	68	68
Oct	W	60	61	61	61
	AN	60	61	61	61
	BN	59	60	60	60
	D	59	61	61	61
	C	61	62	62	62
	All	60	61	61	61
Nov	W	53	54	54	54
	AN	52	53	53	53
	BN	52	53	53	53
	D	52	53	53	53
	C	53	54	54	54
	All	52	54	54	54
Dec	W	47	48	48	48
	AN	46	48	48	48
	BN	45	47	47	47
	D	45	46	46	46
	C	45	46	46	46
	All	46	47	47	47

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1

Table F.1-78. Differences (°F)[a] (Percent Differences) between Pairs of Model Scenarios in Mean Monthly Water Temperatures in the Stanislaus River at the Confluence with the San Joaquin River, Year-Round

Alternative 4A_ELT: Stanislaus River at the Confluence with the San Joaquin River					
Month	Water Year Type	EXISTING CONDITIONS vs. H1_ELT	NAA_ELT vs. H1_ELT	EXISTING CONDITIONS vs. H2_ELT	NAA_ELT vs. H2_ELT
Jan	W	1.3 (2.9%)	0 (0%)	1.3 (2.9%)	0 (0%)
	AN	1.4 (3%)	0 (0%)	1.4 (3%)	0 (0%)
	BN	1.3 (2.9%)	0 (0%)	1.3 (2.9%)	0 (0%)
	D	1.2 (2.7%)	0 (0%)	1.2 (2.7%)	0 (0%)
	C	1.3 (2.9%)	0 (0%)	1.3 (2.9%)	0 (0%)
	All	1.3 (2.9%)	0 (0%)	1.3 (2.9%)	0 (0%)
Feb	W	1.2 (2.4%)	0 (0%)	1.2 (2.4%)	0 (0%)
	AN	1.4 (2.8%)	0 (0%)	1.4 (2.8%)	0 (0%)
	BN	1.5 (3.1%)	0 (0%)	1.5 (3.1%)	0 (0%)
	D	1.5 (3.1%)	0 (0%)	1.5 (3.1%)	0 (0%)
	C	1.5 (3%)	0 (0%)	1.5 (3%)	0 (0%)
	All	1.4 (2.8%)	0 (0%)	1.4 (2.8%)	0 (0%)
Mar	W	1 (1.9%)	0 (0%)	1 (1.9%)	0 (0%)
	AN	1.6 (3%)	0 (0%)	1.6 (3%)	0 (0%)
	BN	1.2 (2.2%)	0 (0%)	1.2 (2.2%)	0 (0%)
	D	1.6 (2.9%)	0 (0%)	1.6 (2.9%)	0 (0%)
	C	1.3 (2.3%)	0 (0%)	1.3 (2.3%)	0 (0%)
	All	1.3 (2.4%)	0 (0%)	1.3 (2.4%)	0 (0%)
Apr	W	1.3 (2.4%)	0 (0%)	1.3 (2.4%)	0 (0%)
	AN	1.5 (2.7%)	0 (0%)	1.5 (2.7%)	0 (0%)
	BN	1.7 (3.1%)	0 (0%)	1.7 (3.1%)	0 (0%)
	D	1.6 (2.9%)	0 (0%)	1.6 (2.9%)	0 (0%)
	C	1.5 (2.6%)	0 (0%)	1.5 (2.6%)	0 (0%)
	All	1.5 (2.7%)	0 (0%)	1.5 (2.7%)	0 (0%)
May	W	1.6 (2.8%)	0 (0%)	1.6 (2.8%)	0 (0%)
	AN	2 (3.3%)	0 (0%)	2 (3.3%)	0 (0%)
	BN	2.3 (3.8%)	0 (0%)	2.3 (3.8%)	0 (0%)
	D	2.1 (3.4%)	0 (0%)	2.1 (3.4%)	0 (0%)
	C	1.9 (3%)	0 (0%)	1.9 (3%)	0 (0%)
	All	1.9 (3.2%)	0 (0%)	1.9 (3.2%)	0 (0%)
Jun	W	1.2 (1.9%)	0 (0%)	1.2 (1.9%)	0 (0%)
	AN	1.8 (2.8%)	0 (0%)	1.9 (2.9%)	0 (0%)
	BN	1.8 (2.7%)	0 (0%)	1.8 (2.7%)	0 (0%)
	D	1.9 (2.8%)	0 (0%)	1.9 (2.8%)	0 (0%)
	C	1.8 (2.7%)	0 (0%)	1.8 (2.7%)	0 (0%)
	All	1.7 (2.5%)	0 (0%)	1.7 (2.5%)	0 (0%)
Jul	W	1.4 (2.1%)	0 (0%)	1.4 (2.1%)	0 (0%)
	AN	1.8 (2.5%)	0 (0%)	1.8 (2.5%)	0 (0%)
	BN	1.6 (2.3%)	0 (0%)	1.6 (2.3%)	0 (0%)
	D	1.8 (2.6%)	0 (0%)	1.8 (2.6%)	0 (0%)
	C	1.8 (2.5%)	0 (0%)	1.8 (2.5%)	0 (0%)
	All	1.7 (2.4%)	0 (0%)	1.7 (2.4%)	0 (0%)

Alternative 4A_ELT: Stanislaus River at the Confluence with the San Joaquin River					
Month	**Water Year Type**	**EXISTING CONDITIONS vs. H1_ELT**	**NAA_ELT vs. H1_ELT**	**EXISTING CONDITIONS vs. H2_ELT**	**NAA_ELT vs. H2_ELT**
Aug	W	1.9 (2.8%)	0 (0%)	1.9 (2.8%)	0 (0%)
	AN	1.7 (2.4%)	0 (0%)	1.7 (2.4%)	0 (0%)
	BN	1.6 (2.3%)	0 (0%)	1.6 (2.3%)	0 (0%)
	D	1.6 (2.3%)	0 (0%)	1.6 (2.3%)	0 (0%)
	C	1.9 (2.8%)	0 (0%)	1.6 (2.4%)	-0.3 (-0.4%)
	All	1.8 (2.6%)	0 (0%)	1.7 (2.5%)	-0.1 (-0.1%)
Sep	W	1.8 (2.7%)	0 (0%)	1.8 (2.7%)	0 (0%)
	AN	1.8 (2.7%)	0 (0%)	1.8 (2.7%)	0 (0%)
	BN	1.8 (2.6%)	0 (0%)	1.8 (2.6%)	0 (0%)
	D	1.7 (2.6%)	0 (0%)	1.7 (2.6%)	0 (0%)
	C	1.8 (2.7%)	0 (0%)	1.6 (2.5%)	-0.2 (-0.3%)
	All	1.8 (2.7%)	0 (0%)	1.7 (2.6%)	0 (-0.1%)
Oct	W	1.3 (2.2%)	0 (0%)	1.3 (2.2%)	0 (0%)
	AN	1.2 (2%)	0 (0%)	1.2 (2%)	0 (0%)
	BN	1.1 (1.8%)	0 (0%)	1.1 (1.8%)	0 (0%)
	D	1.3 (2.1%)	0 (0%)	1.3 (2.1%)	0 (0%)
	C	1.5 (2.4%)	0 (0%)	1.5 (2.4%)	0 (0%)
	All	1.3 (2.1%)	0 (0%)	1.3 (2.1%)	0 (0%)
Nov	W	1.2 (2.3%)	0 (0%)	1.2 (2.3%)	0 (0%)
	AN	1.2 (2.3%)	0 (0%)	1.2 (2.3%)	0 (0%)
	BN	1.2 (2.3%)	0 (0%)	1.2 (2.3%)	0 (0%)
	D	1.1 (2.2%)	0 (0%)	1.1 (2.2%)	0 (0%)
	C	1.2 (2.2%)	0 (0%)	1.2 (2.2%)	0 (0%)
	All	1.2 (2.3%)	0 (0%)	1.2 (2.3%)	0 (0%)
Dec	W	1.3 (2.7%)	0 (0%)	1.3 (2.7%)	0 (0%)
	AN	1.2 (2.5%)	0 (0%)	1.2 (2.5%)	0 (0%)
	BN	1.2 (2.7%)	0 (0%)	1.2 (2.7%)	0 (0%)
	D	1 (2.2%)	0 (0%)	1 (2.2%)	0 (0%)
	C	1.1 (2.4%)	0 (0%)	1.1 (2.4%)	0 (0%)
	All	1.2 (2.5%)	0 (0%)	1.2 (2.5%)	0 (0%)

[a] Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline; green boxes indicate that water temperatures under the alternative are more than 5% lower than water temperatures under the baseline.

Water Year Type:
AN = above normal year
BN = below normal year
C = critical year
D = dry year
W = wet year

1