

1 Appendix 11D
2 **Sacramento River Water Quality Model and**
3 **Reclamation Temperature Model Results Utilized in the**
4 **Fish Analysis¹**

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

6	WYT	=	Water Year Type.
7	W	=	Wet.
8	AN	=	Above Normal.
9	BN	=	Below Normal.
10	D	=	Dry.
11	C	=	Critical.
12	All	=	All water year types combined.
13	AVG	=	Average.
14	NAA	=	No Action Alternative.
15	A1A_LL	=	Alternative 1A Late Long-Term.
16	A2A_LL	=	Alternative 2A Late Long-Term.
17	A3_LL	=	Alternative 3 Late Long-Term.
18	A4_LL	=	Alternative 4 Late Long-Term.
19	H1	=	Scenario H1 – Does not include enhanced spring outflow or Fall X2 requirements.
20	H2	=	Scenario H2 – includes enhanced spring outflow, but not Fall X2 requirements.
21			This scenario lies within the range of the other scenarios.
22	H3	=	Scenario H3 – Does not include enhanced spring outflow, but includes Fall X2
23			requirements (similar to Alternative 2A). This scenario lies within the range of the
24			other scenarios.
25	H4	=	Scenario H4 – Includes both enhanced spring outflow requirements, and Fall X2
26			requirements.
27	A5_LL	=	Alternative 5 Late Long-Term.
28	A6A_LL	=	Alternative 6A Late Long-Term.
29	A7_LL	=	Alternative 7 Late Long-Term.
30	A8_LL	=	Alternative 8 Late Long-Term.
31	A9_LL	=	Alternative 9 Late Long-Term.

¹ Sacramento River Water Quality Model outputs were used for all locations in the Sacramento River; Reclamation Temperature Model outputs were used for locations in all other rivers.

1 **11D.1 Alternative 1A**

2 **11D.1.1 Sacramento River at Keswick**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 1A Model Scenarios in**
4 **the Sacramento River at Keswick, Year-Round**

Alternative 1A: Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL
JAN	W	46	47	47
	AN	46	48	48
	BN	47	48	48
	D	47	48	48
	C	47	48	48
	All	46	48	48
FEB	W	45	47	47
	AN	46	47	47
	BN	46	47	47
	D	46	48	48
	C	46	48	48
	All	46	47	47
MAR	W	46	47	47
	AN	46	48	48
	BN	47	48	48
	D	47	49	49
	C	48	50	50
	All	47	48	48
APR	W	47	49	49
	AN	48	50	50
	BN	48	50	50
	D	48	50	50
	C	49	51	51
	All	48	50	50
MAY	W	49	50	50
	AN	49	51	51
	BN	49	51	51
	D	49	51	51
	C	51	53	53
	All	49	51	51
JUN	W	50	51	50
	AN	50	51	51
	BN	50	51	51
	D	50	52	53
	C	53	55	55
	All	50	52	52

Alternative 1A: Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL
JUL	W	51	52	52
	AN	51	52	52
	BN	51	52	53
	D	51	54	54
	C	54	59	59
	All	51	53	54
AUG	W	52	54	54
	AN	52	54	55
	BN	52	54	55
	D	53	56	56
	C	57	64	64
	All	53	56	56
SEP	W	53	55	56
	AN	54	56	57
	BN	54	56	57
	D	55	59	59
	C	60	66	66
	All	55	58	58
OCT	W	54	57	57
	AN	54	57	57
	BN	54	57	58
	D	55	58	58
	C	56	60	60
	All	54	58	58
NOV	W	53	55	55
	AN	52	55	55
	BN	53	55	55
	D	53	56	56
	C	54	56	56
	All	53	55	55
DEC	W	49	50	50
	AN	49	51	51
	BN	50	52	52
	D	50	52	52
	C	51	52	52
	All	50	51	51

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

Alternative 1A: Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	1.3 (2.8%)	0 (-0.1%)
	AN	1.5 (3.2%)	0 (0.1%)
	BN	1.6 (3.4%)	-0.1 (-0.2%)
	D	1.5 (3.2%)	-0.1 (-0.2%)
	C	1.6 (3.5%)	-0.2 (-0.4%)
	AVG	1.5 (3.1%)	-0.1 (-0.2%)
FEB	W	1.5 (3.4%)	0 (0%)
	AN	1.7 (3.7%)	0.1 (0.2%)
	BN	1.4 (3.1%)	-0.1 (-0.2%)
	D	1.6 (3.6%)	-0.1 (-0.2%)
	C	1.7 (3.6%)	-0.1 (-0.2%)
	AVG	1.6 (3.5%)	0 (-0.1%)
MAR	W	1.5 (3.3%)	0 (0.1%)
	AN	1.8 (3.8%)	0.1 (0.3%)
	BN	1.6 (3.5%)	0.1 (0.2%)
	D	1.7 (3.5%)	0 (0%)
	C	1.8 (3.8%)	-0.1 (-0.2%)
	AVG	1.6 (3.5%)	0 (0.1%)
APR	W	1.7 (3.5%)	0 (0%)
	AN	1.7 (3.5%)	0 (-0.1%)
	BN	1.5 (3.2%)	0.2 (0.4%)
	D	1.3 (2.7%)	-0.3 (-0.5%)
	C	1.9 (4%)	-0.1 (-0.3%)
	AVG	1.6 (3.3%)	-0.1 (-0.1%)
MAY	W	1.6 (3.3%)	-0.2 (-0.3%)
	AN	1.3 (2.7%)	0 (0%)
	BN	1.5 (3%)	0.1 (0.2%)
	D	1.3 (2.7%)	-0.2 (-0.4%)
	C	2.1 (4.1%)	0.1 (0.2%)
	AVG	1.5 (3.1%)	-0.1 (-0.1%)
JUN	W	0.8 (1.6%)	-0.2 (-0.3%)
	AN	1.1 (2.2%)	-0.2 (-0.3%)
	BN	1.5 (2.9%)	0.2 (0.4%)
	D	2.3 (4.5%)	0.4 (0.7%)
	C	2.4 (4.6%)	0.3 (0.5%)
	AVG	1.5 (3%)	0.1 (0.2%)
JUL	W	1.3 (2.5%)	0.4 (0.7%)
	AN	1.7 (3.4%)	0.3 (0.6%)
	BN	2.3 (4.5%)	1 (1.8%)
	D	2.9 (5.8%)	0.6 (1.1%)
	C	5.2 (9.7%)	0.1 (0.1%)
	AVG	2.5 (4.8%)	0.5 (0.9%)

Alternative 1A: Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	2.3 (4.5%)	0.4 (0.7%)
	AN	2.4 (4.6%)	0.5 (1%)
	BN	2.9 (5.6%)	0.6 (1%)
	D	3.4 (6.5%)	0.4 (0.8%)
	C	7.8 (13.7%)	0.3 (0.4%)
	AVG	3.5 (6.6%)	0.4 (0.8%)
SEP	W	2.4 (4.6%)	0.8 (1.4%)
	AN	2.8 (5.3%)	0.6 (1.1%)
	BN	3.3 (6.1%)	0.6 (1.1%)
	D	4.4 (8.1%)	0 (0%)
	C	5.9 (9.8%)	-0.1 (-0.1%)
	AVG	3.6 (6.6%)	0.4 (0.8%)
OCT	W	2.8 (5.3%)	-0.2 (-0.4%)
	AN	2.7 (5%)	-0.1 (-0.1%)
	BN	3.3 (6.2%)	0.3 (0.5%)
	D	3.6 (6.5%)	0 (0.1%)
	C	3.5 (6.3%)	-0.2 (-0.4%)
	AVG	3.2 (5.8%)	0 (-0.1%)
NOV	W	2.1 (4.1%)	-0.1 (-0.2%)
	AN	2.3 (4.4%)	0.1 (0.2%)
	BN	2.5 (4.7%)	0 (0.1%)
	D	2.4 (4.6%)	0.1 (0.2%)
	C	2.4 (4.4%)	-0.1 (-0.1%)
	AVG	2.3 (4.4%)	0 (0%)
DEC	W	1.2 (2.5%)	0 (0%)
	AN	1.6 (3.2%)	-0.2 (-0.3%)
	BN	1.8 (3.5%)	-0.3 (-0.5%)
	D	1.7 (3.5%)	-0.2 (-0.4%)
	C	1.8 (3.6%)	-0.1 (-0.2%)
	AVG	1.6 (3.2%)	-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.

1 **11D.1.2 Sacramento River at Jelly’s Ferry**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 1A Model Scenarios in**
3 **the Sacramento River at Jelly’s Ferry, Year-Round**

Alternative 1A: Sacramento River at Jelly’s Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	45	46	47
	D	45	47	47
	C	45	47	47
	AVG	45	47	47
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	47
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	49	50
	AN	49	51	51
	BN	49	51	51
	D	50	51	51
	C	50	52	52
	AVG	49	51	51
APR	W	51	53	53
	AN	53	55	54
	BN	53	54	54
	D	52	54	54
	C	52	54	54
	AVG	52	54	54
MAY	W	54	57	56
	AN	55	57	56
	BN	54	57	56
	D	54	56	55
	C	55	57	57
	AVG	54	57	56
JUN	W	55	56	56
	AN	55	56	55
	BN	54	56	56
	D	54	56	56
	C	56	58	58
	AVG	55	56	56
JUL	W	56	57	57
	AN	55	56	56
	BN	55	56	57
	D	55	57	58
	C	57	62	63
	AVG	55	57	58

Alternative 1A: Sacramento River at Jelly's Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
AUG	W	56	59	59
	AN	56	58	59
	BN	56	58	59
	D	56	59	60
	C	59	67	67
	AVG	57	60	60
SEP	W	56	57	59
	AN	57	59	60
	BN	57	60	60
	D	58	63	63
	C	61	67	67
	AVG	58	61	61
OCT	W	54	57	57
	AN	54	57	57
	BN	55	57	58
	D	55	58	58
	C	56	60	59
	AVG	55	58	58
NOV	W	51	53	53
	AN	51	53	53
	BN	51	54	53
	D	51	54	53
	C	52	55	54
	AVG	51	53	53
DEC	W	47	48	48
	AN	47	48	48
	BN	47	49	49
	D	47	49	49
	C	47	49	49
	AVG	47	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Jelly’s Ferry, Year-Round**

Alternative 1A: Sacramento River at Jelly’s Ferry			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	1.4 (3.2%)	0 (0%)
	AN	1.6 (3.6%)	0.1 (0.2%)
	BN	1.9 (4.2%)	0.2 (0.4%)
	D	1.9 (4.2%)	0.1 (0.1%)
	C	1.9 (4.2%)	-0.3 (-0.6%)
	AVG	1.7 (3.8%)	0 (0%)
FEB	W	1.6 (3.4%)	0 (0%)
	AN	1.6 (3.5%)	0 (0.1%)
	BN	1.6 (3.6%)	0 (-0.1%)
	D	1.8 (4%)	0 (0%)
	C	1.9 (4%)	-0.1 (-0.2%)
	AVG	1.7 (3.7%)	0 (0%)
MAR	W	1.5 (3%)	0 (0%)
	AN	1.7 (3.4%)	0.1 (0.2%)
	BN	1.6 (3.2%)	-0.1 (-0.2%)
	D	1.6 (3.2%)	-0.1 (-0.1%)
	C	1.7 (3.3%)	-0.1 (-0.3%)
	AVG	1.6 (3.2%)	0 (-0.1%)
APR	W	1.7 (3.4%)	0 (-0.1%)
	AN	1.7 (3.2%)	-0.2 (-0.4%)
	BN	1.6 (3.1%)	-0.1 (-0.2%)
	D	1.3 (2.5%)	-0.5 (-1%)
	C	1.9 (3.6%)	-0.2 (-0.3%)
	AVG	1.6 (3.1%)	-0.2 (-0.4%)
MAY	W	2.5 (4.5%)	-0.5 (-0.8%)
	AN	1.2 (2.2%)	-0.5 (-0.8%)
	BN	1.8 (3.3%)	-0.3 (-0.6%)
	D	1.1 (2.1%)	-0.7 (-1.2%)
	C	1.9 (3.4%)	0 (-0.1%)
	AVG	1.8 (3.3%)	-0.4 (-0.8%)
JUN	W	0.7 (1.3%)	-0.7 (-1.2%)
	AN	0.7 (1.3%)	-0.7 (-1.2%)
	BN	1.6 (2.9%)	0 (0%)
	D	2 (3.8%)	0.1 (0.2%)
	C	2.2 (3.9%)	0.2 (0.3%)
	AVG	1.4 (2.5%)	-0.3 (-0.5%)
JUL	W	1.2 (2.2%)	0.3 (0.4%)
	AN	1.8 (3.2%)	0.3 (0.6%)
	BN	2.8 (5%)	1.1 (1.9%)
	D	3.2 (5.8%)	0.8 (1.4%)
	C	5.2 (9%)	0.1 (0.2%)
	AVG	2.6 (4.6%)	0.5 (0.9%)

Alternative 1A: Sacramento River at Jelly's Ferry			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL	NAA vs. A1A_LL
AUG	W	2.8 (5.1%)	0.3 (0.6%)
	AN	2.6 (4.7%)	0.7 (1.2%)
	BN	3.4 (6.1%)	0.7 (1.3%)
	D	4.1 (7.3%)	1.1 (1.8%)
	C	7.5 (12.6%)	0.3 (0.5%)
	AVG	3.9 (6.8%)	0.6 (1%)
SEP	W	3.4 (6%)	2.1 (3.7%)
	AN	2.9 (5%)	1.6 (2.7%)
	BN	3.5 (6.1%)	0.6 (1%)
	D	4.8 (8.2%)	-0.1 (-0.2%)
	C	5.3 (8.5%)	-0.1 (-0.1%)
	AVG	3.9 (6.8%)	1 (1.6%)
OCT	W	2.7 (5%)	-0.2 (-0.3%)
	AN	2.5 (4.6%)	-0.1 (-0.1%)
	BN	3.2 (5.9%)	0.3 (0.5%)
	D	3.2 (5.8%)	0 (0%)
	C	3.3 (5.8%)	-0.1 (-0.2%)
	AVG	2.9 (5.4%)	0 (-0.1%)
NOV	W	2 (4%)	-0.3 (-0.5%)
	AN	1.9 (3.8%)	-0.3 (-0.5%)
	BN	2.3 (4.4%)	-0.2 (-0.5%)
	D	2.1 (4.1%)	-0.1 (-0.2%)
	C	2.2 (4.2%)	-0.2 (-0.4%)
	AVG	2.1 (4.1%)	-0.2 (-0.4%)
DEC	W	1.3 (2.8%)	0.1 (0.3%)
	AN	1.8 (3.8%)	0 (-0.1%)
	BN	1.9 (4%)	0 (-0.1%)
	D	1.9 (4%)	-0.1 (-0.1%)
	C	1.9 (4.1%)	0 (-0.1%)
	AVG	1.7 (3.6%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.1.3 Sacramento River at Bend Bridge**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 1A Model Scenarios in**
3 **the Sacramento River at Bend Bridge, Year-Round**

Alternative 1A: Sacramento River at Bend Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	45	46	47
	D	45	47	47
	C	45	47	47
	AVG	45	47	47
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	47
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	50	50
	AN	49	51	51
	BN	49	51	51
	D	50	52	52
	C	50	52	52
	AVG	49	51	51
APR	W	51	53	53
	AN	53	55	55
	BN	53	55	55
	D	53	55	54
	C	52	54	54
	AVG	52	54	54
MAY	W	54	57	57
	AN	55	57	57
	BN	55	57	57
	D	55	56	56
	C	55	57	57
	AVG	55	57	57
JUN	W	56	57	56
	AN	55	57	56
	BN	55	57	57
	D	55	57	57
	C	57	59	59
	AVG	55	57	57
JUL	W	56	57	58
	AN	55	57	57
	BN	55	57	58
	D	56	58	59
	C	58	63	63
	AVG	56	58	59

Alternative 1A: Sacramento River at Bend Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL
AUG	W	57	59	60
	AN	57	59	60
	BN	56	59	60
	D	57	60	61
	C	60	67	67
	AVG	57	60	61
SEP	W	57	58	60
	AN	58	59	61
	BN	58	60	61
	D	58	63	63
	C	62	67	67
	AVG	58	61	62
OCT	W	54	57	57
	AN	55	57	57
	BN	55	58	58
	D	55	58	58
	C	56	60	60
	AVG	55	58	58
NOV	W	51	53	53
	AN	51	53	53
	BN	51	53	53
	D	51	54	53
	C	52	54	54
	AVG	51	53	53
DEC	W	47	48	48
	AN	46	48	48
	BN	47	49	49
	D	46	48	48
	C	47	49	49
	AVG	47	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Bend Bridge, Year-Round**

Alternative 1A: Sacramento River at Bend Bridge			
Month	WYT	EXISTING CONDITIONS	
		vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	1.5 (3.2%)	0 (0%)
	AN	1.7 (3.7%)	0.1 (0.2%)
	BN	1.9 (4.3%)	0.2 (0.4%)
	D	2 (4.4%)	0.1 (0.1%)
	C	1.9 (4.4%)	-0.3 (-0.6%)
	AVG	1.7 (3.9%)	0 (0.1%)
FEB	W	1.6 (3.4%)	0 (0%)
	AN	1.7 (3.6%)	0 (0.1%)
	BN	1.7 (3.6%)	0 (-0.1%)
	D	1.9 (4.1%)	0 (0%)
	C	1.9 (4.1%)	-0.1 (-0.2%)
	AVG	1.7 (3.7%)	0 (0%)
MAR	W	1.5 (3%)	0 (0%)
	AN	1.7 (3.4%)	0.1 (0.2%)
	BN	1.6 (3.3%)	-0.1 (-0.2%)
	D	1.6 (3.3%)	-0.1 (-0.1%)
	C	1.7 (3.4%)	-0.1 (-0.3%)
	AVG	1.6 (3.2%)	0 (-0.1%)
APR	W	1.8 (3.4%)	0 (-0.1%)
	AN	1.7 (3.2%)	-0.2 (-0.4%)
	BN	1.7 (3.1%)	-0.1 (-0.3%)
	D	1.3 (2.5%)	-0.5 (-1%)
	C	1.9 (3.6%)	-0.2 (-0.3%)
	AVG	1.7 (3.2%)	-0.2 (-0.4%)
MAY	W	2.5 (4.6%)	-0.5 (-0.8%)
	AN	1.2 (2.2%)	-0.5 (-0.9%)
	BN	1.8 (3.3%)	-0.4 (-0.7%)
	D	1.1 (2.1%)	-0.7 (-1.2%)
	C	1.9 (3.4%)	0 (-0.1%)
	AVG	1.8 (3.3%)	-0.4 (-0.8%)
JUN	W	0.8 (1.4%)	-0.7 (-1.2%)
	AN	0.7 (1.2%)	-0.7 (-1.3%)
	BN	1.6 (2.9%)	0 (-0.1%)
	D	2 (3.7%)	0.1 (0.1%)
	C	2.2 (3.8%)	0.1 (0.2%)
	AVG	1.4 (2.5%)	-0.3 (-0.5%)
JUL	W	1.2 (2.2%)	0.2 (0.4%)
	AN	1.8 (3.2%)	0.3 (0.6%)
	BN	2.8 (5.1%)	1.1 (1.9%)
	D	3.2 (5.8%)	0.8 (1.4%)
	C	5.2 (8.9%)	0.2 (0.3%)
	AVG	2.6 (4.6%)	0.5 (0.9%)

Alternative 1A: Sacramento River at Bend Bridge			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	2.9 (5.2%)	0.3 (0.5%)
	AN	2.7 (4.7%)	0.7 (1.3%)
	BN	3.4 (6.1%)	0.8 (1.3%)
	D	4.2 (7.4%)	1.1 (1.9%)
	C	7.4 (12.4%)	0.4 (0.5%)
	AVG	3.9 (6.9%)	0.6 (1%)
SEP	W	3.5 (6.1%)	2.2 (3.9%)
	AN	2.9 (5%)	1.7 (2.8%)
	BN	3.5 (6.1%)	0.6 (0.9%)
	D	4.8 (8.2%)	-0.1 (-0.2%)
	C	5.2 (8.4%)	-0.1 (-0.1%)
	AVG	3.9 (6.8%)	1 (1.7%)
OCT	W	2.7 (4.9%)	-0.2 (-0.3%)
	AN	2.5 (4.6%)	-0.1 (-0.1%)
	BN	3.2 (5.8%)	0.3 (0.5%)
	D	3.1 (5.7%)	0 (0%)
	C	3.3 (5.8%)	-0.1 (-0.2%)
	AVG	2.9 (5.3%)	0 (-0.1%)
NOV	W	2 (4.1%)	-0.3 (-0.5%)
	AN	2 (3.9%)	-0.3 (-0.5%)
	BN	2.3 (4.5%)	-0.3 (-0.5%)
	D	2.1 (4.2%)	-0.1 (-0.3%)
	C	2.2 (4.2%)	-0.2 (-0.4%)
	AVG	2.1 (4.2%)	-0.2 (-0.4%)
DEC	W	1.3 (2.9%)	0.1 (0.3%)
	AN	1.8 (3.9%)	0 (-0.1%)
	BN	1.9 (4.1%)	0 (-0.1%)
	D	1.9 (4.1%)	0 (-0.1%)
	C	2 (4.2%)	0 (-0.1%)
	AVG	1.7 (3.7%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.1.4 Sacramento River at Red Bluff Diversion Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 1A Model Scenarios in**
3 **the Sacramento River at Red Bluff Diversion Dam, Year-Round**

Alternative 1A: Sacramento River at Red Bluff Diversion Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	45	46	47
	AN	45	47	47
	BN	44	46	46
	D	44	46	46
	C	44	47	46
	AVG	45	46	46
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	50	50
	AN	49	51	51
	BN	49	51	51
	D	50	52	52
	C	51	53	52
	AVG	49	51	51
APR	W	52	54	54
	AN	53	55	55
	BN	54	55	55
	D	54	55	55
	C	53	55	55
	AVG	53	55	55
MAY	W	55	58	58
	AN	56	58	58
	BN	56	58	58
	D	56	58	57
	C	57	59	58
	AVG	56	58	58
JUN	W	57	59	58
	AN	57	58	58
	BN	57	58	58
	D	57	59	59
	C	58	60	60
	AVG	57	59	58
JUL	W	58	59	59
	AN	57	59	59
	BN	57	59	60
	D	57	60	61
	C	60	64	65
	AVG	58	60	60

Alternative 1A: Sacramento River at Red Bluff Diversion Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL
AUG	W	58	61	61
	AN	59	61	61
	BN	58	61	62
	D	59	62	63
	C	61	68	69
	AVG	59	62	63
SEP	W	58	59	61
	AN	59	60	62
	BN	59	62	63
	D	59	64	64
	C	63	68	68
	AVG	59	62	63
OCT	W	55	57	57
	AN	55	57	57
	BN	55	58	58
	D	55	59	59
	C	56	60	60
	AVG	55	58	58
NOV	W	50	53	52
	AN	50	53	53
	BN	51	53	53
	D	51	53	53
	C	52	54	54
	AVG	51	53	53
DEC	W	46	48	48
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	46	48	48
	AVG	46	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Red Bluff Diversion Dam, Year-Round**

Alternative 1A: Sacramento River at Red Bluff Diversion Dam			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	1.5 (3.3%)	0 (0%)
	AN	1.7 (3.8%)	0.1 (0.2%)
	BN	2 (4.5%)	0.2 (0.5%)
	D	2 (4.6%)	0.1 (0.2%)
	C	2 (4.6%)	-0.3 (-0.6%)
	AVG	1.8 (4.1%)	0 (0.1%)
FEB	W	1.6 (3.5%)	0 (0%)
	AN	1.7 (3.7%)	0 (0.1%)
	BN	1.7 (3.8%)	0 (-0.1%)
	D	1.9 (4.2%)	0 (0%)
	C	2 (4.3%)	-0.1 (-0.2%)
	AVG	1.8 (3.8%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0%)
	AN	1.7 (3.5%)	0.1 (0.2%)
	BN	1.7 (3.3%)	-0.1 (-0.2%)
	D	1.7 (3.3%)	-0.1 (-0.1%)
	C	1.7 (3.4%)	-0.1 (-0.3%)
	AVG	1.6 (3.3%)	0 (-0.1%)
APR	W	1.8 (3.5%)	0 (0%)
	AN	1.7 (3.3%)	-0.2 (-0.4%)
	BN	1.7 (3.2%)	-0.2 (-0.3%)
	D	1.4 (2.6%)	-0.5 (-1%)
	C	1.9 (3.6%)	-0.1 (-0.3%)
	AVG	1.7 (3.2%)	-0.2 (-0.4%)
MAY	W	2.6 (4.7%)	-0.5 (-0.8%)
	AN	1.3 (2.3%)	-0.5 (-0.9%)
	BN	1.9 (3.3%)	-0.4 (-0.7%)
	D	1.2 (2.1%)	-0.7 (-1.3%)
	C	1.9 (3.4%)	-0.1 (-0.1%)
	AVG	1.9 (3.3%)	-0.5 (-0.8%)
JUN	W	0.9 (1.5%)	-0.8 (-1.3%)
	AN	0.7 (1.3%)	-0.8 (-1.4%)
	BN	1.7 (3%)	-0.1 (-0.2%)
	D	2 (3.6%)	0 (0%)
	C	2.1 (3.7%)	0.1 (0.2%)
	AVG	1.4 (2.5%)	-0.4 (-0.6%)
JUL	W	1.3 (2.2%)	0.2 (0.3%)
	AN	1.8 (3.2%)	0.3 (0.6%)
	BN	2.9 (5.1%)	1.1 (1.9%)
	D	3.3 (5.8%)	0.9 (1.4%)
	C	5.1 (8.5%)	0.2 (0.3%)
	AVG	2.7 (4.6%)	0.5 (0.9%)

Alternative 1A: Sacramento River at Red Bluff Diversion Dam			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL	NAA vs. A1A_LL
AUG	W	3.1 (5.3%)	0.3 (0.4%)
	AN	2.8 (4.7%)	0.8 (1.3%)
	BN	3.6 (6.2%)	0.8 (1.3%)
	D	4.4 (7.5%)	1.3 (2%)
	C	7.3 (11.9%)	0.4 (0.5%)
	AVG	4 (6.8%)	0.7 (1.1%)
SEP	W	3.7 (6.5%)	2.5 (4.3%)
	AN	3 (5%)	1.9 (3.1%)
	BN	3.6 (6.1%)	0.6 (0.9%)
	D	4.9 (8.2%)	-0.1 (-0.2%)
	C	5.2 (8.3%)	-0.1 (-0.1%)
	AVG	4.1 (6.9%)	1.1 (1.8%)
OCT	W	2.7 (4.9%)	-0.1 (-0.2%)
	AN	2.5 (4.6%)	-0.1 (-0.2%)
	BN	3.2 (5.7%)	0.2 (0.4%)
	D	3.1 (5.6%)	0 (0%)
	C	3.2 (5.7%)	-0.1 (-0.2%)
	AVG	2.9 (5.3%)	0 (-0.1%)
NOV	W	2.1 (4.2%)	-0.3 (-0.5%)
	AN	2 (4%)	-0.3 (-0.5%)
	BN	2.3 (4.6%)	-0.3 (-0.5%)
	D	2.2 (4.3%)	-0.2 (-0.3%)
	C	2.3 (4.4%)	-0.2 (-0.4%)
	AVG	2.2 (4.3%)	-0.2 (-0.4%)
DEC	W	1.4 (3%)	0.1 (0.3%)
	AN	1.9 (4.1%)	0 (0%)
	BN	2 (4.3%)	0 (0%)
	D	2 (4.3%)	0 (-0.1%)
	C	2 (4.4%)	0 (0%)
	AVG	1.8 (3.9%)	0 (0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.1.5 Sacramento River at Hamilton City**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 1A Model Scenarios in**
3 **the Sacramento River at Hamilton City, Year-Round**

Alternative 1A: Sacramento River at Hamilton City				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	44	46	46
	D	44	46	47
	C	44	47	47
	AVG	45	47	47
FEB	W	46	48	48
	AN	47	48	48
	BN	46	48	48
	D	47	49	49
	C	48	50	50
	AVG	47	49	49
MAR	W	49	51	51
	AN	51	52	52
	BN	51	53	53
	D	52	54	53
	C	52	54	54
	AVG	51	52	52
APR	W	54	55	55
	AN	55	57	57
	BN	56	58	57
	D	56	58	58
	C	56	58	58
	AVG	55	57	57
MAY	W	58	62	61
	AN	60	62	61
	BN	59	62	61
	D	59	61	60
	C	60	62	62
	AVG	59	62	61
JUN	W	61	63	62
	AN	61	62	61
	BN	60	62	62
	D	60	63	63
	C	61	63	63
	AVG	61	63	62
JUL	W	62	63	63
	AN	61	63	63
	BN	61	63	64
	D	61	64	65
	C	63	68	68
	AVG	62	64	64

Alternative 1A: Sacramento River at Hamilton City				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL
AUG	W	62	65	65
	AN	62	64	65
	BN	62	65	66
	D	62	65	67
	C	65	71	72
	AVG	62	66	67
SEP	W	60	61	64
	AN	62	63	65
	BN	62	65	65
	D	62	67	67
	C	64	69	69
	AVG	62	65	66
OCT	W	55	58	58
	AN	56	58	58
	BN	56	59	59
	D	56	59	59
	C	57	60	60
	AVG	56	59	59
NOV	W	50	53	52
	AN	50	53	53
	BN	50	53	53
	D	51	53	53
	C	52	54	54
	AVG	51	53	53
DEC	W	46	47	47
	AN	46	48	48
	BN	45	48	48
	D	45	48	48
	C	45	48	48
	AVG	46	47	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Hamilton City, Year-Round**

Alternative 1A: Sacramento River at Hamilton City			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	1.6 (3.6%)	0 (0%)
	AN	1.9 (4.2%)	0.1 (0.2%)
	BN	2.1 (4.8%)	0.2 (0.4%)
	D	2.2 (5%)	0.1 (0.2%)
	C	2.2 (5.1%)	-0.2 (-0.5%)
	AVG	2 (4.4%)	0 (0.1%)
FEB	W	1.7 (3.6%)	0 (0%)
	AN	1.8 (3.8%)	0 (0.1%)
	BN	1.8 (4%)	0 (-0.1%)
	D	2.1 (4.4%)	0 (0%)
	C	2.2 (4.5%)	-0.1 (-0.2%)
	AVG	1.9 (4%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0%)
	AN	1.8 (3.5%)	0.1 (0.2%)
	BN	1.7 (3.4%)	-0.1 (-0.3%)
	D	1.7 (3.4%)	-0.1 (-0.2%)
	C	1.8 (3.4%)	-0.1 (-0.3%)
	AVG	1.7 (3.3%)	-0.1 (-0.1%)
APR	W	1.9 (3.5%)	0 (0%)
	AN	1.8 (3.3%)	-0.2 (-0.4%)
	BN	1.8 (3.2%)	-0.2 (-0.4%)
	D	1.5 (2.8%)	-0.5 (-0.9%)
	C	1.9 (3.5%)	-0.1 (-0.3%)
	AVG	1.8 (3.2%)	-0.2 (-0.4%)
MAY	W	2.8 (4.7%)	-0.5 (-0.8%)
	AN	1.4 (2.3%)	-0.6 (-1%)
	BN	1.9 (3.3%)	-0.6 (-1%)
	D	1.2 (2%)	-0.8 (-1.4%)
	C	1.9 (3.2%)	-0.1 (-0.2%)
	AVG	1.9 (3.3%)	-0.6 (-0.9%)
JUN	W	1 (1.7%)	-0.9 (-1.5%)
	AN	0.7 (1.2%)	-1 (-1.6%)
	BN	1.8 (3%)	-0.2 (-0.4%)
	D	2 (3.4%)	-0.1 (-0.2%)
	C	2.1 (3.5%)	0 (0%)
	AVG	1.5 (2.5%)	-0.5 (-0.8%)
JUL	W	1.4 (2.3%)	0.1 (0.2%)
	AN	2 (3.3%)	0.4 (0.6%)
	BN	3.3 (5.3%)	1.2 (1.9%)
	D	3.5 (5.7%)	1 (1.5%)
	C	5 (8%)	0.2 (0.3%)
	AVG	2.8 (4.6%)	0.6 (0.9%)

Alternative 1A: Sacramento River at Hamilton City			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	3.5 (5.7%)	0.3 (0.4%)
	AN	3 (4.8%)	0.9 (1.4%)
	BN	3.9 (6.3%)	0.9 (1.4%)
	D	4.8 (7.7%)	1.6 (2.4%)
	C	7 (10.9%)	0.4 (0.6%)
	AVG	4.3 (6.9%)	0.8 (1.2%)
SEP	W	4.3 (7.2%)	3.2 (5.3%)
	AN	3.1 (5.1%)	2.3 (3.7%)
	BN	3.7 (6%)	0.5 (0.8%)
	D	5 (8%)	-0.1 (-0.2%)
	C	4.8 (7.5%)	-0.1 (-0.2%)
	AVG	4.3 (6.9%)	1.4 (2.2%)
OCT	W	2.6 (4.7%)	-0.1 (-0.2%)
	AN	2.5 (4.5%)	-0.2 (-0.3%)
	BN	3 (5.3%)	0.1 (0.2%)
	D	2.9 (5.1%)	-0.1 (-0.1%)
	C	3.1 (5.4%)	-0.1 (-0.2%)
	AVG	2.8 (5%)	-0.1 (-0.1%)
NOV	W	2.3 (4.5%)	-0.2 (-0.3%)
	AN	2.2 (4.5%)	-0.2 (-0.3%)
	BN	2.5 (4.9%)	-0.2 (-0.3%)
	D	2.3 (4.5%)	-0.1 (-0.3%)
	C	2.4 (4.7%)	-0.2 (-0.3%)
	AVG	2.3 (4.6%)	-0.2 (-0.3%)
DEC	W	1.6 (3.4%)	0.1 (0.3%)
	AN	2 (4.4%)	0 (0%)
	BN	2.1 (4.7%)	0 (0%)
	D	2.1 (4.7%)	0 (0%)
	C	2.2 (4.9%)	0 (0%)
	AVG	1.9 (4.3%)	0 (0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.1.6 Trinity River below Lewiston Reservoir**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 1A Model Scenarios in**
3 **the Trinity River below Lewiston Reservoir, Year-Round**

Alternative 1A: Trinity River below Lewiston Reservoir				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	41	43	43
	AN	38	41	41
	BN	39	41	41
	D	39	41	42
	C	39	42	42
	AVG	39	42	42
FEB	W	43	45	45
	AN	43	45	45
	BN	42	44	44
	D	42	45	45
	C	43	45	46
	AVG	43	45	45
MAR	W	46	48	48
	AN	47	49	49
	BN	47	48	49
	D	48	50	50
	C	48	50	50
	AVG	47	49	49
APR	W	49	51	51
	AN	50	52	52
	BN	51	53	53
	D	51	53	53
	C	50	52	52
	AVG	50	52	52
MAY	W	46	48	48
	AN	46	48	48
	BN	46	49	49
	D	47	49	49
	C	49	52	52
	AVG	47	49	49
JUN	W	48	51	50
	AN	51	52	52
	BN	52	53	53
	D	52	54	54
	C	56	59	59
	AVG	51	53	53
JUL	W	51	55	53
	AN	52	54	53
	BN	52	55	54
	D	51	54	53
	C	53	60	61
	AVG	51	55	54

Alternative 1A: Trinity River below Lewiston Reservoir				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL
AUG	W	52	54	54
	AN	51	53	53
	BN	52	55	55
	D	50	54	55
	C	54	63	64
	AVG	52	56	56
SEP	W	49	51	51
	AN	50	51	52
	BN	51	55	55
	D	50	56	57
	C	57	62	63
	AVG	51	54	55
OCT	W	48	51	51
	AN	49	52	52
	BN	50	53	53
	D	50	52	52
	C	51	56	55
	AVG	49	52	52
NOV	W	44	47	47
	AN	45	47	47
	BN	45	47	48
	D	44	47	47
	C	46	48	48
	AVG	45	47	47
DEC	W	41	43	43
	AN	39	43	43
	BN	40	42	42
	D	40	42	42
	C	39	41	41
	AVG	40	42	42

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River below Lewiston Reservoir, Year-Round**

Alternative 1A: Trinity River below Lewiston Reservoir			
Month	WYT	EXISTING CONDITIONS	NAA vs. A1A_LL1
		vs. A1A_LL1	
JAN	W	1.9 (4.7%)	-0.1 (-0.3%)
	AN	2.3 (6.1%)	-0.1 (-0.2%)
	BN	1.7 (4.5%)	-0.3 (-0.8%)
	D	2.9 (7.4%)	0.2 (0.4%)
	C	2.5 (6.2%)	0.1 (0.3%)
	AVG	2.2 (5.7%)	0 (-0.1%)
FEB	W	2.3 (5.5%)	0 (-0.1%)
	AN	2.2 (5.2%)	0 (-0.1%)
	BN	2.2 (5.1%)	0 (0%)
	D	2.3 (5.4%)	0 (0.1%)
	C	2.4 (5.5%)	0.2 (0.4%)
	AVG	2.3 (5.4%)	0 (0%)
MAR	W	2 (4.3%)	0 (0%)
	AN	1.7 (3.6%)	0 (0%)
	BN	2.1 (4.5%)	0.3 (0.6%)
	D	1.5 (3%)	0 (-0.1%)
	C	2.1 (4.4%)	0 (0%)
	AVG	1.9 (3.9%)	0 (0.1%)
APR	W	1.8 (3.7%)	0.3 (0.7%)
	AN	2.3 (4.7%)	0.4 (0.7%)
	BN	2.5 (4.9%)	0 (-0.1%)
	D	2.3 (4.6%)	0.1 (0.1%)
	C	2.2 (4.3%)	0 (0.1%)
	AVG	2.2 (4.3%)	0.2 (0.3%)
MAY	W	2.5 (5.4%)	0 (0.1%)
	AN	2.3 (5%)	0 (0%)
	BN	2.2 (4.8%)	0 (0%)
	D	2.5 (5.4%)	0 (-0.1%)
	C	3.2 (6.6%)	0.1 (0.1%)
	AVG	2.5 (5.4%)	0 (0%)
JUN	W	2.1 (4.3%)	-0.2 (-0.3%)
	AN	1.1 (2.2%)	0 (0%)
	BN	1.8 (3.4%)	-0.1 (-0.1%)
	D	2.3 (4.3%)	0 (0%)
	C	3 (5.4%)	-0.7 (-1.2%)
	AVG	2.1 (4%)	-0.2 (-0.3%)
JUL	W	2.4 (4.7%)	-1.4 (-2.6%)
	AN	1 (1.9%)	-1.1 (-2%)
	BN	2.4 (4.7%)	-0.8 (-1.4%)
	D	2.5 (5%)	-0.1 (-0.2%)
	C	8.1 (15.4%)	1.3 (2.1%)
	AVG	3.1 (6%)	-0.6 (-1%)

Alternative 1A: Trinity River below Lewiston Reservoir			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
AUG	W	1.6 (3%)	-0.5 (-0.9%)
	AN	2.2 (4.2%)	-0.1 (-0.1%)
	BN	3 (5.8%)	0.1 (0.1%)
	D	5.3 (10.6%)	1.3 (2.3%)
	C	10.1 (18.7%)	0.7 (1.1%)
	AVG	4 (7.7%)	0.2 (0.4%)
SEP	W	2.1 (4.2%)	0.1 (0.3%)
	AN	2.1 (4.2%)	0.3 (0.7%)
	BN	3.8 (7.5%)	0.3 (0.6%)
	D	6.4 (12.9%)	0.6 (1.1%)
	C	6 (10.6%)	0.3 (0.5%)
	AVG	3.9 (7.7%)	0.3 (0.6%)
OCT	W	2.9 (6.1%)	-0.3 (-0.6%)
	AN	2.5 (5.1%)	0.2 (0.3%)
	BN	3.1 (6.2%)	0.2 (0.4%)
	D	2.8 (5.6%)	0.6 (1.1%)
	C	4 (7.7%)	-0.5 (-0.8%)
	AVG	3 (6.1%)	0 (0%)
NOV	W	2.7 (6%)	0.1 (0.1%)
	AN	2.4 (5.3%)	0.1 (0.3%)
	BN	2.9 (6.6%)	0.4 (0.8%)
	D	2.8 (6.3%)	0.1 (0.1%)
	C	2 (4.4%)	0 (-0.1%)
	AVG	2.6 (5.8%)	0.1 (0.2%)
DEC	W	1.9 (4.6%)	-0.2 (-0.4%)
	AN	3.4 (8.7%)	-0.2 (-0.4%)
	BN	2.5 (6.4%)	0 (0.1%)
	D	1.9 (4.8%)	0.1 (0.2%)
	C	1.7 (4.4%)	0 (-0.1%)
	AVG	2.2 (5.4%)	-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.

1 **11D.1.7 Trinity River at Douglas City**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 1A Model Scenarios in**
3 **the Trinity River at Douglas City, Year-Round**

Alternative 1A: Trinity River at Douglas City				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	40	42	42
	AN	39	40	40
	BN	38	40	40
	D	38	40	40
	C	39	41	41
	AVG	39	41	41
FEB	W	43	45	45
	AN	43	45	45
	BN	42	44	44
	D	43	44	44
	C	43	45	45
	AVG	43	45	45
MAR	W	46	47	47
	AN	47	48	48
	BN	47	48	48
	D	48	49	49
	C	48	49	49
	AVG	47	48	48
APR	W	51	52	52
	AN	52	53	53
	BN	52	54	54
	D	53	54	54
	C	52	54	54
	AVG	52	53	53
MAY	W	48	50	50
	AN	48	50	50
	BN	49	51	51
	D	49	51	51
	C	52	55	55
	AVG	49	51	51
JUN	W	51	54	53
	AN	54	55	55
	BN	55	57	57
	D	57	59	59
	C	60	63	63
	AVG	55	57	57
JUL	W	57	61	60
	AN	58	60	59
	BN	59	62	61
	D	59	62	62
	C	62	67	67
	AVG	59	62	62

Alternative 1A: Trinity River at Douglas City				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
AUG	W	60	62	62
	AN	59	61	61
	BN	60	63	63
	D	58	62	63
	C	61	67	68
	AVG	60	63	63
SEP	W	55	57	57
	AN	55	57	57
	BN	56	59	60
	D	55	60	60
	C	59	64	65
	AVG	56	59	59
OCT	W	50	53	53
	AN	51	53	53
	BN	52	54	54
	D	51	53	53
	C	53	56	55
	AVG	51	54	54
NOV	W	44	46	46
	AN	45	47	47
	BN	45	47	47
	D	44	46	46
	C	46	47	47
	AVG	44	47	47
DEC	W	41	43	43
	AN	40	42	42
	BN	39	42	42
	D	40	42	42
	C	39	41	41
	AVG	40	42	42

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River at Douglas City, Year-Round**

Alternative 1A: Trinity River at Douglas City			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	1.5 (3.6%)	-0.1 (-0.3%)
	AN	1.6 (4.1%)	0 (-0.1%)
	BN	1.3 (3.5%)	-0.2 (-0.4%)
	D	2.2 (5.9%)	0.1 (0.2%)
	C	2.2 (5.6%)	0.1 (0.3%)
	AVG	1.7 (4.4%)	0 (-0.1%)
FEB	W	1.6 (3.6%)	0 (-0.1%)
	AN	1.5 (3.5%)	0 (0%)
	BN	1.6 (3.8%)	0 (0%)
	D	1.6 (3.7%)	0 (0%)
	C	1.8 (4.1%)	-0.1 (-0.1%)
	AVG	1.6 (3.7%)	0 (0%)
MAR	W	1.2 (2.6%)	0 (0%)
	AN	1 (2.1%)	0 (0%)
	BN	1.2 (2.6%)	0.1 (0.1%)
	D	1 (2.2%)	0 (0%)
	C	1.5 (3.2%)	0 (0%)
	AVG	1.2 (2.5%)	0 (0%)
APR	W	1.4 (2.7%)	0.1 (0.2%)
	AN	1.5 (3%)	0.2 (0.3%)
	BN	1.7 (3.2%)	0 (0%)
	D	1.7 (3.3%)	0 (0.1%)
	C	1.8 (3.5%)	0 (0%)
	AVG	1.6 (3.1%)	0.1 (0.1%)
MAY	W	2.4 (4.9%)	0 (0.1%)
	AN	2.2 (4.7%)	0 (0%)
	BN	2.1 (4.4%)	0 (0%)
	D	2.5 (5%)	0 (0%)
	C	3.1 (5.9%)	0.1 (0.1%)
	AVG	2.4 (5%)	0 (0%)
JUN	W	2 (3.9%)	-0.1 (-0.3%)
	AN	1 (1.8%)	0 (0%)
	BN	1.8 (3.2%)	0 (0%)
	D	2.4 (4.1%)	0 (0%)
	C	2.7 (4.6%)	-0.4 (-0.6%)
	AVG	2 (3.7%)	-0.1 (-0.2%)
JUL	W	2.8 (4.9%)	-0.9 (-1.5%)
	AN	1.5 (2.6%)	-0.7 (-1.2%)
	BN	2.2 (3.7%)	-0.5 (-0.8%)
	D	2.7 (4.5%)	0 (0%)
	C	5.5 (9%)	0.9 (1.4%)
	AVG	2.9 (5%)	-0.3 (-0.6%)

Alternative 1A: Trinity River at Douglas City			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	2.3 (3.8%)	-0.3 (-0.4%)
	AN	2.6 (4.4%)	0 (-0.1%)
	BN	3.1 (5.1%)	0 (0.1%)
	D	4.4 (7.5%)	0.7 (1.1%)
	C	7.3 (12%)	1.1 (1.6%)
	AVG	3.7 (6.2%)	0.2 (0.4%)
SEP	W	2.5 (4.6%)	0.1 (0.1%)
	AN	2.5 (4.6%)	0.2 (0.4%)
	BN	3.6 (6.3%)	0.2 (0.3%)
	D	5 (9.2%)	0.4 (0.6%)
	C	6 (10.3%)	0.8 (1.2%)
	AVG	3.8 (6.8%)	0.3 (0.5%)
OCT	W	2.4 (4.7%)	-0.2 (-0.3%)
	AN	2.1 (4%)	0.2 (0.3%)
	BN	2.5 (4.8%)	0.1 (0.2%)
	D	2.3 (4.4%)	0.3 (0.6%)
	C	2.8 (5.3%)	-0.3 (-0.5%)
	AVG	2.4 (4.7%)	0 (0%)
NOV	W	2.1 (4.8%)	0 (0%)
	AN	2 (4.6%)	0.1 (0.1%)
	BN	2.4 (5.4%)	0.2 (0.4%)
	D	2.2 (5.1%)	0 (0.1%)
	C	1.8 (4%)	0 (-0.1%)
	AVG	2.1 (4.8%)	0.1 (0.1%)
DEC	W	1.4 (3.4%)	0 (-0.1%)
	AN	2.3 (5.7%)	-0.1 (-0.3%)
	BN	2.1 (5.4%)	0 (0%)
	D	1.8 (4.5%)	0 (0.1%)
	C	2.1 (5.6%)	-0.1 (-0.2%)
	AVG	1.8 (4.6%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.1.8 Trinity River below North Fork**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 1A Model Scenarios in**
3 **the Trinity River below North Fork, Year-Round**

Alternative 1A: Trinity River below North Fork				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	40	41	41
	AN	38	39	39
	BN	38	39	39
	D	38	39	39
	C	38	40	40
	AVG	39	40	40
FEB	W	43	44	44
	AN	43	44	44
	BN	43	44	44
	D	43	44	44
	C	43	45	45
	AVG	43	44	44
MAR	W	46	47	47
	AN	46	47	47
	BN	46	47	47
	D	47	48	48
	C	48	49	49
	AVG	47	47	47
APR	W	53	53	53
	AN	54	54	55
	BN	54	55	55
	D	54	55	55
	C	54	55	55
	AVG	53	54	54
MAY	W	50	52	52
	AN	50	52	52
	BN	51	53	53
	D	51	54	54
	C	54	57	57
	AVG	51	53	53
JUN	W	55	57	57
	AN	58	58	58
	BN	60	61	61
	D	62	64	64
	C	63	66	66
	AVG	59	61	61
JUL	W	63	66	66
	AN	63	66	65
	BN	65	67	67
	D	65	68	68
	C	68	71	72
	AVG	65	67	67

Alternative 1A: Trinity River below North Fork				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL
AUG	W	65	68	67
	AN	64	67	67
	BN	65	68	68
	D	64	67	67
	C	65	69	70
	AVG	65	68	68
SEP	W	59	62	62
	AN	59	61	61
	BN	59	62	63
	D	58	62	62
	C	61	64	64
	AVG	59	62	62
OCT	W	53	55	55
	AN	53	55	55
	BN	54	56	56
	D	53	54	55
	C	54	56	56
	AVG	53	55	55
NOV	W	44	45	45
	AN	44	46	46
	BN	44	46	46
	D	44	45	45
	C	45	47	47
	AVG	44	46	46
DEC	W	41	42	42
	AN	40	42	41
	BN	39	41	41
	D	40	41	41
	C	38	40	40
	AVG	40	41	41

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River below North Fork, Year-Round**

Alternative 1A: Trinity River below North Fork			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	1 (2.6%)	-0.1 (-0.2%)
	AN	1 (2.7%)	0 (0%)
	BN	1 (2.6%)	-0.1 (-0.1%)
	D	1.6 (4.3%)	0 (0.1%)
	C	1.7 (4.5%)	0 (0.1%)
	AVG	1.3 (3.3%)	0 (-0.1%)
FEB	W	1 (2.4%)	0 (-0.1%)
	AN	1 (2.4%)	0 (0%)
	BN	1.1 (2.7%)	0 (0%)
	D	1.1 (2.5%)	0 (0%)
	C	1.4 (3.2%)	-0.1 (-0.1%)
	AVG	1.1 (2.6%)	0 (0%)
MAR	W	0.7 (1.6%)	0 (0%)
	AN	0.6 (1.4%)	0 (0%)
	BN	0.7 (1.6%)	0 (0%)
	D	0.7 (1.5%)	0 (0%)
	C	1.1 (2.2%)	0 (0%)
	AVG	0.8 (1.6%)	0 (0%)
APR	W	0.9 (1.6%)	0 (0.1%)
	AN	1 (1.8%)	0 (0.1%)
	BN	1.1 (2%)	0 (0%)
	D	1.2 (2.2%)	0 (0%)
	C	1.4 (2.6%)	0 (0%)
	AVG	1.1 (2%)	0 (0%)
MAY	W	2.1 (4.2%)	0 (0%)
	AN	2.1 (4.1%)	0 (0%)
	BN	1.9 (3.8%)	0 (0%)
	D	2.2 (4.3%)	0 (0%)
	C	2.7 (5%)	0 (0.1%)
	AVG	2.2 (4.3%)	0 (0%)
JUN	W	1.8 (3.2%)	-0.1 (-0.2%)
	AN	0.8 (1.3%)	0 (0%)
	BN	1.7 (2.9%)	0 (0%)
	D	2.2 (3.6%)	0 (0%)
	C	2.3 (3.6%)	-0.2 (-0.4%)
	AVG	1.8 (3.1%)	-0.1 (-0.1%)
JUL	W	2.9 (4.6%)	-0.5 (-0.8%)
	AN	1.8 (2.8%)	-0.4 (-0.7%)
	BN	1.9 (3%)	-0.3 (-0.5%)
	D	2.5 (3.9%)	0 (0%)
	C	3.7 (5.5%)	0.4 (0.5%)
	AVG	2.6 (4%)	-0.2 (-0.3%)

Alternative 1A: Trinity River below North Fork			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	2.4 (3.7%)	-0.1 (-0.2%)
	AN	2.6 (4.1%)	0 (0%)
	BN	2.8 (4.4%)	0 (0%)
	D	3.6 (5.6%)	0.3 (0.5%)
	C	4.6 (7%)	0.7 (1%)
	AVG	3.1 (4.8%)	0.1 (0.2%)
SEP	W	2.6 (4.4%)	0 (0.1%)
	AN	2.6 (4.4%)	0.1 (0.2%)
	BN	3.1 (5.3%)	0.1 (0.2%)
	D	3.9 (6.7%)	0.2 (0.3%)
	C	3.4 (5.6%)	0.4 (0.7%)
	AVG	3.1 (5.2%)	0.1 (0.2%)
OCT	W	1.9 (3.5%)	-0.1 (-0.2%)
	AN	1.8 (3.4%)	-0.1 (-0.1%)
	BN	2 (3.8%)	0.1 (0.1%)
	D	1.9 (3.7%)	0.1 (0.2%)
	C	2.6 (4.8%)	0 (0%)
	AVG	2 (3.8%)	0 (0%)
NOV	W	1.6 (3.7%)	0 (0%)
	AN	1.6 (3.5%)	0 (0%)
	BN	1.9 (4.3%)	0.1 (0.2%)
	D	1.7 (3.9%)	0 (0%)
	C	1.7 (3.7%)	0 (0%)
	AVG	1.7 (3.8%)	0 (0%)
DEC	W	1 (2.4%)	0.1 (0.1%)
	AN	1.5 (3.7%)	-0.1 (-0.2%)
	BN	1.7 (4.3%)	0 (0%)
	D	1.5 (3.7%)	0 (0.1%)
	C	1.9 (4.9%)	0 (0%)
	AVG	1.4 (3.6%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.1.9 Feather River at Fish Barrier Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 1A Model Scenarios in**
3 **the Feather River at Fish Barrier Dam, Year-Round**

Alternative 1A: Feather River at Fish Barrier Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	48	51	51
	AN	47	50	51
	BN	48	51	51
	D	47	51	51
	C	48	51	51
	AVG	48	51	51
FEB	W	48	51	51
	AN	48	51	51
	BN	48	51	52
	D	49	52	52
	C	49	53	53
	AVG	48	51	51
MAR	W	49	51	51
	AN	49	51	51
	BN	50	53	53
	D	51	53	53
	C	51	54	54
	AVG	50	52	53
APR	W	51	52	52
	AN	51	53	53
	BN	52	54	54
	D	52	54	54
	C	52	54	54
	AVG	51	53	53
MAY	W	55	56	55
	AN	56	56	56
	BN	56	56	56
	D	56	56	56
	C	56	57	57
	AVG	55	56	56
JUN	W	57	58	57
	AN	58	58	57
	BN	58	58	58
	D	58	58	58
	C	58	59	59
	AVG	58	58	58
JUL	W	61	61	62
	AN	61	61	61
	BN	61	61	61
	D	61	61	62
	C	61	62	63
	AVG	61	61	62

Alternative 1A: Feather River at Fish Barrier Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL
AUG	W	61	61	61
	AN	60	60	61
	BN	60	60	61
	D	60	62	61
	C	62	64	63
	AVG	61	61	61
SEP	W	56	55	56
	AN	56	55	56
	BN	56	57	58
	D	56	61	59
	C	58	63	62
	AVG	56	58	58
OCT	W	54	58	58
	AN	55	58	58
	BN	54	58	58
	D	54	59	60
	C	54	58	57
	AVG	54	58	58
NOV	W	52	58	58
	AN	53	58	58
	BN	53	58	58
	D	52	59	59
	C	53	58	58
	AVG	53	58	58
DEC	W	49	53	53
	AN	49	55	54
	BN	49	54	55
	D	49	54	54
	C	49	54	54
	AVG	49	54	54

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Fish Barrier Dam, Year-Round**

Alternative 1A: Feather River at Fish Barrier Dam			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	2.8 (5.9%)	0 (0.1%)
	AN	3.1 (6.6%)	0.1 (0.1%)
	BN	3.2 (6.6%)	0.1 (0.3%)
	D	3.6 (7.6%)	0.2 (0.4%)
	C	4 (8.4%)	0.2 (0.3%)
	AVG	3.3 (6.9%)	0.1 (0.2%)
FEB	W	2.6 (5.4%)	0 (-0.1%)
	AN	2.7 (5.5%)	0.1 (0.2%)
	BN	3.2 (6.6%)	0.2 (0.4%)
	D	3 (6.2%)	0.1 (0.2%)
	C	3.5 (7.2%)	0 (0.1%)
	AVG	2.9 (6.1%)	0.1 (0.1%)
MAR	W	2.6 (5.3%)	0.1 (0.2%)
	AN	2.3 (4.7%)	0.1 (0.2%)
	BN	3.4 (6.8%)	0.2 (0.3%)
	D	2.5 (5%)	0.2 (0.4%)
	C	3.2 (6.2%)	0 (0.1%)
	AVG	2.8 (5.5%)	0.1 (0.2%)
APR	W	1.9 (3.7%)	0 (0.1%)
	AN	1.8 (3.5%)	0.1 (0.1%)
	BN	1.8 (3.5%)	0.1 (0.2%)
	D	1.6 (3.1%)	-0.3 (-0.6%)
	C	2.5 (4.9%)	0 (0%)
	AVG	1.9 (3.7%)	0 (-0.1%)
MAY	W	0.6 (1%)	-0.1 (-0.3%)
	AN	0.1 (0.3%)	-0.4 (-0.7%)
	BN	-0.1 (-0.1%)	-0.4 (-0.7%)
	D	0.2 (0.4%)	0 (-0.1%)
	C	0.7 (1.3%)	-0.1 (-0.2%)
	AVG	0.3 (0.6%)	-0.2 (-0.3%)
JUN	W	0.1 (0.2%)	-0.3 (-0.6%)
	AN	-0.3 (-0.6%)	-0.7 (-1.2%)
	BN	-0.3 (-0.5%)	-0.5 (-0.9%)
	D	0.4 (0.8%)	-0.1 (-0.1%)
	C	0.7 (1.3%)	-0.5 (-0.8%)
	AVG	0.1 (0.2%)	-0.4 (-0.7%)
JUL	W	0.3 (0.6%)	0.2 (0.4%)
	AN	0.4 (0.6%)	0.1 (0.1%)
	BN	0.6 (1%)	0.2 (0.3%)
	D	1.2 (2%)	0.7 (1.1%)
	C	2.3 (3.8%)	0.9 (1.4%)
	AVG	0.9 (1.4%)	0.4 (0.6%)

Alternative 1A: Feather River at Fish Barrier Dam			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	0.2 (0.3%)	0.5 (0.8%)
	AN	0.6 (1.1%)	0.5 (0.8%)
	BN	0.8 (1.4%)	0.3 (0.5%)
	D	1.5 (2.6%)	-0.3 (-0.5%)
	C	1.6 (2.5%)	-0.9 (-1.4%)
	AVG	0.9 (1.4%)	0.1 (0.1%)
SEP	W	-0.2 (-0.4%)	0.4 (0.7%)
	AN	0.1 (0.2%)	0.6 (1%)
	BN	2.3 (4.1%)	0.8 (1.4%)
	D	3.6 (6.5%)	-1.3 (-2.1%)
	C	4.3 (7.4%)	-1.1 (-1.8%)
	AVG	1.8 (3.2%)	-0.1 (-0.2%)
OCT	W	4.1 (7.7%)	-0.4 (-0.7%)
	AN	3.1 (5.6%)	-0.3 (-0.6%)
	BN	4.1 (7.6%)	-0.2 (-0.4%)
	D	5.9 (10.9%)	0.2 (0.3%)
	C	3 (5.6%)	-0.7 (-1.3%)
	AVG	4.2 (7.8%)	-0.3 (-0.5%)
NOV	W	5.7 (10.9%)	-0.1 (-0.2%)
	AN	4.4 (8.2%)	-0.6 (-1%)
	BN	5 (9.4%)	-0.5 (-0.8%)
	D	6.4 (12.2%)	0.1 (0.2%)
	C	5.3 (10%)	0.1 (0.1%)
	AVG	5.5 (10.4%)	-0.2 (-0.3%)
DEC	W	4.4 (9.1%)	0 (0%)
	AN	5.1 (10.4%)	-0.5 (-1%)
	BN	5.9 (12.2%)	0.4 (0.7%)
	D	5.1 (10.4%)	0 (0%)
	C	4.8 (9.7%)	0 (0%)
	AVG	5 (10.2%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.1.10 Feather River Low-Flow Channel (above Thermalito**
2 **Afterbay)**

3 **Table1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 1A Model Scenarios in**
4 **the Feather River Low-Flow Channel (above Thermalito Afterbay), Year-Round**

Alternative 1A: Feather River Low-Flow Channel (above Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	47	50	50
	AN	47	50	50
	BN	47	50	50
	D	47	50	50
	C	47	51	51
	AVG	47	50	50
FEB	W	49	51	51
	AN	49	51	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	50	53	53
	AN	51	53	53
	BN	51	54	54
	D	52	55	55
	C	53	56	56
	AVG	51	54	54
APR	W	53	55	55
	AN	55	57	57
	BN	55	57	57
	D	55	57	57
	C	55	57	57
	AVG	55	57	57
MAY	W	59	61	61
	AN	60	62	61
	BN	60	61	61
	D	60	61	61
	C	60	62	62
	AVG	60	61	61
JUN	W	63	65	64
	AN	64	66	65
	BN	64	65	65
	D	64	66	66
	C	63	65	65
	AVG	64	65	65

Alternative 1A: Feather River Low-Flow Channel (above Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JUL	W	68	69	69
	AN	67	69	69
	BN	67	69	69
	D	67	69	69
	C	67	70	71
	AVG	67	69	69
AUG	W	66	68	68
	AN	65	67	67
	BN	66	68	68
	D	65	68	68
	C	67	70	69
	AVG	66	68	68
SEP	W	60	61	61
	AN	60	61	61
	BN	60	62	63
	D	60	65	64
	C	61	66	66
	AVG	60	63	63
OCT	W	55	60	59
	AN	57	60	60
	BN	56	60	60
	D	56	61	61
	C	56	60	59
	AVG	56	60	60
NOV	W	52	58	58
	AN	53	58	57
	BN	53	58	58
	D	53	58	58
	C	53	58	58
	AVG	53	58	58
DEC	W	48	53	53
	AN	49	54	53
	BN	48	53	53
	D	48	53	53
	C	48	53	53
	AVG	48	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather Low-Flow Channel (above Thermalito Afterbay), Year-Round**

Alternative 1A: Feather River Low-Flow Channel (above Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
JAN	W	2.8 (6%)	0 (0.1%)
	AN	3.2 (6.7%)	0.1 (0.1%)
	BN	3.1 (6.5%)	0.1 (0.2%)
	D	3.4 (7.3%)	0.2 (0.3%)
	C	3.8 (8%)	0.1 (0.3%)
	AVG	3.2 (6.8%)	0.1 (0.2%)
FEB	W	2.6 (5.4%)	0 (-0.1%)
	AN	2.7 (5.5%)	0.1 (0.2%)
	BN	3.1 (6.3%)	0.2 (0.3%)
	D	2.9 (6%)	0.1 (0.1%)
	C	3.4 (6.8%)	0 (0.1%)
	AVG	2.9 (5.9%)	0.1 (0.1%)
MAR	W	2.6 (5.1%)	0.1 (0.1%)
	AN	2.3 (4.6%)	0.1 (0.1%)
	BN	3.1 (6.1%)	0.1 (0.2%)
	D	2.5 (4.8%)	0.1 (0.3%)
	C	3 (5.7%)	0 (0.1%)
	AVG	2.7 (5.2%)	0.1 (0.2%)
APR	W	1.9 (3.5%)	0 (0%)
	AN	2 (3.6%)	0.1 (0.1%)
	BN	1.9 (3.5%)	0.1 (0.1%)
	D	1.9 (3.4%)	-0.2 (-0.4%)
	C	2.5 (4.6%)	0 (0%)
	AVG	2 (3.7%)	0 (-0.1%)
MAY	W	1.3 (2.2%)	-0.1 (-0.2%)
	AN	1.1 (1.8%)	-0.3 (-0.4%)
	BN	0.9 (1.5%)	-0.3 (-0.4%)
	D	1.1 (1.9%)	0 (0%)
	C	1.5 (2.4%)	-0.1 (-0.2%)
	AVG	1.2 (2%)	-0.1 (-0.2%)
JUN	W	1.4 (2.2%)	-0.2 (-0.3%)
	AN	1.3 (2.1%)	-0.4 (-0.6%)
	BN	1.3 (2%)	-0.3 (-0.5%)
	D	1.8 (2.9%)	0 (0%)
	C	1.9 (2.9%)	-0.3 (-0.4%)
	AVG	1.5 (2.4%)	-0.2 (-0.4%)
JUL	W	1.7 (2.6%)	0.1 (0.2%)
	AN	1.8 (2.7%)	0.1 (0.1%)
	BN	1.9 (2.9%)	0.1 (0.2%)
	D	2.3 (3.5%)	0.4 (0.6%)
	C	3.2 (4.8%)	0.6 (0.8%)
	AVG	2.1 (3.2%)	0.2 (0.4%)

Alternative 1A: Feather River Low-Flow Channel (above Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	1.8 (2.7%)	0.3 (0.4%)
	AN	2 (3.1%)	0.3 (0.4%)
	BN	2.2 (3.4%)	0.2 (0.3%)
	D	2.6 (4%)	-0.2 (-0.3%)
	C	2.6 (3.9%)	-0.6 (-0.8%)
	AVG	2.2 (3.3%)	0 (0.1%)
SEP	W	1.1 (1.8%)	0.3 (0.4%)
	AN	1.2 (2.1%)	0.4 (0.7%)
	BN	2.9 (4.7%)	0.6 (0.9%)
	D	3.9 (6.5%)	-0.9 (-1.5%)
	C	4.2 (6.9%)	-0.8 (-1.3%)
	AVG	2.5 (4.1%)	-0.1 (-0.2%)
OCT	W	4 (7.2%)	-0.3 (-0.6%)
	AN	3.1 (5.5%)	-0.2 (-0.4%)
	BN	4 (7.2%)	-0.1 (-0.2%)
	D	5.4 (9.7%)	0.2 (0.3%)
	C	3.2 (5.7%)	-0.6 (-0.9%)
	AVG	4.1 (7.3%)	-0.2 (-0.4%)
NOV	W	5.3 (10.1%)	-0.1 (-0.2%)
	AN	4.1 (7.8%)	-0.5 (-0.9%)
	BN	4.6 (8.8%)	-0.4 (-0.7%)
	D	5.8 (11.1%)	0.1 (0.1%)
	C	5 (9.4%)	0.1 (0.2%)
	AVG	5.1 (9.6%)	-0.1 (-0.2%)
DEC	W	4.2 (8.8%)	0 (0%)
	AN	4.7 (9.7%)	-0.4 (-0.8%)
	BN	5.4 (11.2%)	0.3 (0.6%)
	D	4.7 (9.8%)	0 (0%)
	C	4.5 (9.3%)	0 (0%)
	AVG	4.6 (9.6%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.1.11 Feather River High-Flow Channel (below Thermalito**
2 **Afterbay)**

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

Alternative 1A: Feather River High-Flow Channel (below Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	47	50	50
	AN	47	50	50
	BN	46	49	49
	D	46	49	49
	C	46	50	50
	AVG	47	49	49
FEB	W	49	52	51
	AN	49	52	52
	BN	49	52	53
	D	50	53	53
	C	51	54	54
	AVG	50	52	52
MAR	W	51	54	54
	AN	52	54	54
	BN	53	56	56
	D	54	57	57
	C	54	57	57
	AVG	53	55	55
APR	W	55	57	57
	AN	57	59	59
	BN	58	59	59
	D	57	60	60
	C	57	60	60
	AVG	57	59	59
MAY	W	61	63	63
	AN	63	64	64
	BN	63	65	64
	D	63	65	65
	C	63	66	65
	AVG	62	64	64
JUN	W	66	68	67
	AN	67	70	67
	BN	67	70	68
	D	68	71	70
	C	68	71	71
	AVG	67	70	68

Alternative 1A: Feather River High-Flow Channel (below Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JUL	W	70	70	71
	AN	68	69	70
	BN	68	70	71
	D	68	70	73
	C	70	74	76
	AVG	69	71	72
AUG	W	70	70	72
	AN	67	69	71
	BN	68	70	72
	D	67	71	72
	C	70	74	74
	AVG	69	71	72
SEP	W	64	63	64
	AN	64	64	65
	BN	65	68	67
	D	64	67	67
	C	64	69	69
	AVG	64	66	66
OCT	W	58	62	62
	AN	60	63	63
	BN	59	63	63
	D	58	63	63
	C	59	63	62
	AVG	59	63	63
NOV	W	53	57	57
	AN	54	58	58
	BN	53	57	57
	D	53	57	57
	C	53	57	58
	AVG	53	57	57
DEC	W	48	51	51
	AN	48	52	52
	BN	47	51	51
	D	47	51	51
	C	47	50	50
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather High-Flow Channel (below Thermalito Afterbay), Year-Round**

Alternative 1A: 11D.1.11 Feather River High-Flow Channel (below Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
JAN	W	2.7 (5.8%)	0.1 (0.1%)
	AN	2.9 (6.2%)	0 (0%)
	BN	2.8 (6.1%)	0.1 (0.2%)
	D	3 (6.5%)	0.1 (0.3%)
	C	3.3 (7.1%)	0 (0%)
	AVG	2.9 (6.3%)	0.1 (0.1%)
FEB	W	2.5 (5.2%)	-0.1 (-0.3%)
	AN	2.9 (5.9%)	-0.2 (-0.4%)
	BN	3.1 (6.2%)	0.1 (0.2%)
	D	2.8 (5.7%)	0.1 (0.1%)
	C	3.1 (6.1%)	0 (0%)
	AVG	2.8 (5.7%)	0 (-0.1%)
MAR	W	2.4 (4.8%)	0.1 (0.3%)
	AN	1.5 (2.9%)	-0.2 (-0.3%)
	BN	3 (5.7%)	0 (0%)
	D	2.6 (4.8%)	0.1 (0.2%)
	C	3.2 (5.9%)	0.1 (0.3%)
	AVG	2.6 (4.9%)	0.1 (0.1%)
APR	W	2 (3.7%)	0 (0%)
	AN	2.4 (4.2%)	0.1 (0.2%)
	BN	1.6 (2.8%)	-0.1 (-0.2%)
	D	2.5 (4.4%)	0.1 (0.2%)
	C	2.8 (5%)	0.4 (0.6%)
	AVG	2.2 (3.9%)	0.1 (0.1%)
MAY	W	2.4 (4%)	-0.3 (-0.5%)
	AN	1.3 (2.1%)	-0.3 (-0.5%)
	BN	1.7 (2.6%)	-0.5 (-0.7%)
	D	2.1 (3.4%)	-0.2 (-0.3%)
	C	2.2 (3.5%)	-0.1 (-0.1%)
	AVG	2 (3.3%)	-0.3 (-0.4%)
JUN	W	1.1 (1.7%)	-1.5 (-2.3%)
	AN	-0.6 (-0.9%)	-3.1 (-4.5%)
	BN	0.1 (0.2%)	-2.2 (-3.2%)
	D	2.3 (3.4%)	-0.6 (-0.8%)
	C	2.9 (4.3%)	-0.1 (-0.2%)
	AVG	1.2 (1.9%)	-1.5 (-2.1%)
JUL	W	1.6 (2.3%)	1.1 (1.6%)
	AN	1.8 (2.7%)	0.5 (0.7%)
	BN	3 (4.4%)	1 (1.4%)
	D	4.8 (7.1%)	2.6 (3.6%)
	C	6.1 (8.8%)	1.9 (2.5%)
	AVG	3.3 (4.7%)	1.4 (2%)

Alternative 1A: 11D.1.11 Feather River High-Flow Channel (below Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
AUG	W	2 (2.9%)	1.4 (1.9%)
	AN	3.4 (5%)	1.6 (2.3%)
	BN	3.5 (5.2%)	1.4 (2%)
	D	5.2 (7.7%)	1.3 (1.8%)
	C	4.1 (5.9%)	0 (0.1%)
	AVG	3.5 (5.1%)	1.2 (1.7%)
SEP	W	0.2 (0.3%)	0.9 (1.4%)
	AN	1.2 (1.9%)	1.7 (2.6%)
	BN	1.9 (3%)	-1 (-1.4%)
	D	2.6 (4%)	0.1 (0.1%)
	C	4.7 (7.4%)	-0.2 (-0.2%)
	AVG	1.8 (2.9%)	0.3 (0.5%)
OCT	W	3.8 (6.6%)	-0.1 (-0.2%)
	AN	3.1 (5.3%)	-0.3 (-0.4%)
	BN	3.7 (6.2%)	0.1 (0.1%)
	D	4.4 (7.5%)	0.1 (0.2%)
	C	3.6 (6.1%)	-0.2 (-0.4%)
	AVG	3.8 (6.5%)	-0.1 (-0.1%)
NOV	W	4.3 (8.1%)	0 (0%)
	AN	3.8 (7%)	-0.2 (-0.4%)
	BN	4 (7.5%)	-0.1 (-0.3%)
	D	4.7 (8.9%)	0 (0%)
	C	4.2 (7.8%)	0.1 (0.2%)
	AVG	4.2 (8%)	0 (-0.1%)
DEC	W	3.5 (7.4%)	0 (0.1%)
	AN	4.2 (8.8%)	-0.3 (-0.6%)
	BN	4.5 (9.6%)	0.3 (0.5%)
	D	3.9 (8.4%)	-0.2 (-0.3%)
	C	3.8 (8.1%)	-0.1 (-0.1%)
	AVG	3.9 (8.3%)	0 (-0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.1.12 Feather River at Gridley Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 1A Model Scenarios in**
3 **the Feather River at Gridley Dam, Year-Round**

Alternative 1A: Feather River at Gridley Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	46	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	49	52	52
	BN	50	53	53
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	51	54	54
	AN	53	54	54
	BN	54	57	57
	D	55	57	57
	C	54	57	57
	AVG	53	56	56
APR	W	56	58	58
	AN	58	60	60
	BN	59	61	60
	D	59	61	61
	C	58	61	61
	AVG	58	60	60
MAY	W	61	64	64
	AN	64	66	65
	BN	64	66	65
	D	64	66	66
	C	64	67	67
	AVG	63	66	65
JUN	W	67	69	68
	AN	69	71	68
	BN	69	71	69
	D	69	72	72
	C	69	72	72
	AVG	68	71	69
JUL	W	70	71	72
	AN	69	70	71
	BN	69	71	72
	D	69	71	74
	C	71	75	77
	AVG	70	72	73

Alternative 1A: Feather River at Gridley Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL
AUG	W	71	71	73
	AN	68	70	72
	BN	69	71	73
	D	68	72	73
	C	71	75	75
	AVG	69	72	73
SEP	W	65	64	65
	AN	65	64	66
	BN	66	69	69
	D	65	68	68
	C	66	70	70
	AVG	65	67	67
OCT	W	59	63	63
	AN	60	63	63
	BN	60	63	63
	D	59	63	63
	C	59	63	63
	AVG	59	63	63
NOV	W	53	57	57
	AN	54	58	57
	BN	53	57	57
	D	53	57	57
	C	54	57	58
	AVG	53	57	57
DEC	W	48	51	51
	AN	47	52	52
	BN	47	51	51
	D	47	51	50
	C	46	50	50
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Gridley Dam, Year-Round**

Alternative 1A: Feather River at Gridley Dam			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
JAN	W	2.7 (5.8%)	0.1 (0.1%)
	AN	2.9 (6.2%)	-0.1 (-0.1%)
	BN	2.8 (6.1%)	0.1 (0.2%)
	D	3 (6.5%)	0.1 (0.3%)
	C	3.3 (7%)	0 (0%)
	AVG	2.9 (6.2%)	0.1 (0.1%)
FEB	W	2.5 (5.1%)	-0.1 (-0.3%)
	AN	2.9 (5.9%)	-0.2 (-0.4%)
	BN	3.1 (6.2%)	0.1 (0.1%)
	D	2.8 (5.6%)	0 (0.1%)
	C	3.1 (6%)	0 (0%)
	AVG	2.8 (5.7%)	-0.1 (-0.1%)
MAR	W	2.4 (4.7%)	0.1 (0.2%)
	AN	1.6 (2.9%)	-0.2 (-0.3%)
	BN	3 (5.7%)	0 (0.1%)
	D	2.6 (4.7%)	0.1 (0.1%)
	C	3 (5.5%)	0.1 (0.2%)
	AVG	2.5 (4.7%)	0.1 (0.1%)
APR	W	2 (3.6%)	0 (0%)
	AN	2.4 (4.1%)	0.1 (0.2%)
	BN	1.7 (2.8%)	-0.2 (-0.3%)
	D	2.2 (3.8%)	-0.1 (-0.2%)
	C	2.6 (4.5%)	0.2 (0.3%)
	AVG	2.1 (3.7%)	0 (0%)
MAY	W	2.6 (4.3%)	-0.4 (-0.6%)
	AN	1.3 (2.1%)	-0.5 (-0.8%)
	BN	1.4 (2.2%)	-0.7 (-1%)
	D	2 (3.1%)	-0.2 (-0.3%)
	C	2.2 (3.5%)	-0.1 (-0.1%)
	AVG	2 (3.2%)	-0.4 (-0.5%)
JUN	W	1.2 (1.7%)	-1.6 (-2.3%)
	AN	-0.8 (-1.1%)	-3.3 (-4.6%)
	BN	0 (0%)	-2.3 (-3.3%)
	D	2.3 (3.4%)	-0.6 (-0.8%)
	C	2.9 (4.3%)	-0.1 (-0.2%)
	AVG	1.2 (1.8%)	-1.5 (-2.1%)
JUL	W	1.8 (2.5%)	1.1 (1.6%)
	AN	2 (2.9%)	0.4 (0.6%)
	BN	3.2 (4.6%)	1 (1.4%)
	D	5.1 (7.5%)	2.7 (3.8%)
	C	6.3 (8.9%)	1.9 (2.5%)
	AVG	3.5 (5%)	1.5 (2.1%)

Alternative 1A: Feather River at Gridley Dam			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	2 (2.9%)	1.4 (2%)
	AN	3.5 (5.1%)	1.6 (2.4%)
	BN	3.7 (5.4%)	1.4 (2%)
	D	5.5 (8.1%)	1.2 (1.7%)
	C	4.1 (5.8%)	0 (-0.1%)
	AVG	3.6 (5.2%)	1.2 (1.7%)
SEP	W	-0.3 (-0.5%)	0.9 (1.5%)
	AN	0.9 (1.5%)	1.7 (2.7%)
	BN	2.6 (3.9%)	-0.3 (-0.4%)
	D	3.2 (4.9%)	-0.1 (-0.1%)
	C	4.5 (6.9%)	-0.2 (-0.2%)
	AVG	1.9 (2.8%)	0.4 (0.7%)
OCT	W	3.8 (6.5%)	-0.1 (-0.2%)
	AN	3 (5%)	-0.3 (-0.5%)
	BN	3.7 (6.2%)	0.1 (0.1%)
	D	4.2 (7.2%)	0.1 (0.1%)
	C	3.4 (5.8%)	-0.3 (-0.5%)
	AVG	3.7 (6.3%)	-0.1 (-0.2%)
NOV	W	4.1 (7.8%)	0 (0%)
	AN	3.7 (6.8%)	-0.2 (-0.4%)
	BN	3.9 (7.3%)	-0.1 (-0.2%)
	D	4.5 (8.5%)	0 (0%)
	C	4.1 (7.6%)	0.1 (0.2%)
	AVG	4.1 (7.7%)	0 (-0.1%)
DEC	W	3.4 (7.2%)	0 (0.1%)
	AN	4.1 (8.6%)	-0.3 (-0.5%)
	BN	4.3 (9.3%)	0.2 (0.5%)
	D	3.8 (8.2%)	-0.1 (-0.3%)
	C	3.7 (7.9%)	-0.1 (-0.1%)
	AVG	3.8 (8.1%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.1.13 Feather River at Honcut Creek**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 1A Model Scenarios in**
3 **the Feather River at Honcut Creek, Year-Round**

Alternative 1A: Feather River at Honcut Creek				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	47	50	50
	AN	46	49	49
	BN	46	49	49
	D	45	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	49	53	52
	BN	50	53	53
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	52	54	54
	AN	53	55	54
	BN	54	57	57
	D	55	58	58
	C	55	58	58
	AVG	53	56	56
APR	W	56	58	58
	AN	59	61	61
	BN	60	62	61
	D	60	62	62
	C	59	62	62
	AVG	58	61	60
MAY	W	62	65	65
	AN	65	67	66
	BN	65	67	66
	D	65	67	67
	C	65	68	68
	AVG	64	67	66
JUN	W	67	70	68
	AN	69	72	69
	BN	69	72	69
	D	70	73	72
	C	69	73	72
	AVG	69	72	70
JUL	W	71	72	73
	AN	69	71	71
	BN	69	72	73
	D	69	72	75
	C	71	76	78
	AVG	70	72	74

Alternative 1A: Feather River at Honcut Creek				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL
AUG	W	72	72	74
	AN	69	71	72
	BN	69	72	73
	D	68	73	74
	C	72	76	76
	AVG	70	73	74
SEP	W	66	64	65
	AN	66	65	67
	BN	67	69	70
	D	66	70	70
	C	66	71	71
	AVG	66	68	68
OCT	W	59	63	63
	AN	60	64	63
	BN	60	64	64
	D	59	63	63
	C	60	64	63
	AVG	60	63	63
NOV	W	53	57	57
	AN	54	58	57
	BN	53	57	57
	D	53	57	57
	C	54	57	58
	AVG	53	57	57
DEC	W	47	51	51
	AN	47	52	51
	BN	46	51	51
	D	46	50	50
	C	46	50	50
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Honcut Creek, Year-Round**

Alternative 1A: Feather River at Honcut Creek			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
JAN	W	2.7 (5.8%)	0 (0.1%)
	AN	2.9 (6.2%)	0 (-0.1%)
	BN	2.8 (6.1%)	0.1 (0.2%)
	D	2.9 (6.4%)	0.1 (0.2%)
	C	3.2 (7%)	0 (-0.1%)
	AVG	2.9 (6.2%)	0 (0.1%)
FEB	W	2.5 (5.2%)	-0.1 (-0.3%)
	AN	2.9 (5.9%)	-0.2 (-0.3%)
	BN	3 (6.1%)	0.1 (0.1%)
	D	2.8 (5.6%)	0 (0.1%)
	C	3 (5.9%)	0 (0%)
	AVG	2.8 (5.6%)	0 (-0.1%)
MAR	W	2.4 (4.7%)	0.1 (0.2%)
	AN	1.5 (2.9%)	-0.2 (-0.4%)
	BN	3.1 (5.7%)	0 (0.1%)
	D	2.5 (4.6%)	0 (0.1%)
	C	2.9 (5.3%)	0.1 (0.2%)
	AVG	2.5 (4.7%)	0 (0.1%)
APR	W	2 (3.6%)	0 (0%)
	AN	2.4 (4%)	0.1 (0.1%)
	BN	1.7 (2.9%)	-0.2 (-0.4%)
	D	2 (3.4%)	-0.3 (-0.4%)
	C	2.5 (4.2%)	0 (0%)
	AVG	2.1 (3.6%)	-0.1 (-0.1%)
MAY	W	2.8 (4.5%)	-0.4 (-0.6%)
	AN	1.4 (2.1%)	-0.7 (-1.1%)
	BN	1.2 (1.8%)	-0.8 (-1.2%)
	D	1.8 (2.8%)	-0.2 (-0.3%)
	C	2.3 (3.5%)	-0.1 (-0.1%)
	AVG	2 (3.2%)	-0.4 (-0.6%)
JUN	W	1.2 (1.8%)	-1.6 (-2.4%)
	AN	-0.8 (-1.2%)	-3.3 (-4.6%)
	BN	-0.1 (-0.1%)	-2.4 (-3.3%)
	D	2.4 (3.4%)	-0.6 (-0.8%)
	C	3 (4.4%)	-0.1 (-0.1%)
	AVG	1.2 (1.8%)	-1.5 (-2.1%)
JUL	W	1.9 (2.7%)	1.2 (1.6%)
	AN	2.1 (3.1%)	0.5 (0.7%)
	BN	3.3 (4.8%)	1 (1.4%)
	D	5.3 (7.7%)	2.7 (3.8%)
	C	6.4 (9%)	1.9 (2.5%)
	AVG	3.6 (5.2%)	1.5 (2.1%)

Alternative 1A: Feather River at Honcut Creek			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	2.1 (3%)	1.5 (2%)
	AN	3.5 (5.1%)	1.6 (2.3%)
	BN	3.9 (5.6%)	1.5 (2%)
	D	5.7 (8.4%)	1.2 (1.6%)
	C	4.1 (5.7%)	-0.2 (-0.2%)
	AVG	3.7 (5.3%)	1.2 (1.6%)
SEP	W	-0.6 (-1%)	0.9 (1.5%)
	AN	0.8 (1.2%)	1.7 (2.7%)
	BN	3.1 (4.6%)	0.2 (0.3%)
	D	3.7 (5.6%)	-0.2 (-0.3%)
	C	4.3 (6.5%)	-0.2 (-0.3%)
	AVG	1.9 (2.9%)	0.5 (0.7%)
OCT	W	3.7 (6.3%)	-0.1 (-0.2%)
	AN	2.9 (4.8%)	-0.3 (-0.5%)
	BN	3.7 (6.1%)	0 (0.1%)
	D	4.1 (6.9%)	0 (0.1%)
	C	3.5 (5.8%)	-0.3 (-0.5%)
	AVG	3.6 (6.1%)	-0.1 (-0.2%)
NOV	W	4.1 (7.7%)	0 (0%)
	AN	3.6 (6.8%)	-0.2 (-0.4%)
	BN	3.8 (7.2%)	-0.1 (-0.2%)
	D	4.4 (8.3%)	0 (0%)
	C	4 (7.4%)	0.1 (0.2%)
	AVG	4 (7.6%)	0 (-0.1%)
DEC	W	3.4 (7.1%)	0 (0.1%)
	AN	4 (8.5%)	-0.3 (-0.5%)
	BN	4.3 (9.2%)	0.2 (0.5%)
	D	3.8 (8.1%)	-0.1 (-0.2%)
	C	3.5 (7.7%)	0 (-0.1%)
	AVG	3.7 (8%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.1.14 Feather River at the Confluence with the Sacramento**
2 **River**

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

Alternative 1A: Feather River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	47	48	48
	AN	46	48	48
	BN	46	47	47
	D	45	47	47
	C	45	48	48
	AVG	46	48	48
FEB	W	50	52	52
	AN	50	52	52
	BN	50	51	51
	D	50	52	52
	C	51	53	53
	AVG	50	52	52
MAR	W	53	55	55
	AN	54	56	56
	BN	55	57	57
	D	55	57	57
	C	56	58	58
	AVG	55	56	56
APR	W	59	60	60
	AN	60	62	62
	BN	61	62	62
	D	62	64	64
	C	63	65	65
	AVG	61	63	62
MAY	W	65	68	67
	AN	66	69	69
	BN	67	69	69
	D	68	70	70
	C	68	71	71
	AVG	66	69	69
JUN	W	70	73	72
	AN	71	75	73
	BN	72	75	73
	D	73	77	76
	C	72	76	76
	AVG	71	75	74

Alternative 1A: Feather River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LLТ
JUL	W	74	76	77
	AN	72	75	75
	BN	73	76	77
	D	73	76	78
	C	75	79	80
	AVG	73	76	78
AUG	W	73	76	77
	AN	71	74	75
	BN	72	75	76
	D	72	76	77
	C	75	79	79
	AVG	73	76	77
SEP	W	71	70	71
	AN	70	70	71
	BN	70	73	74
	D	70	74	74
	C	70	74	74
	AVG	70	72	73
OCT	W	61	64	64
	AN	62	64	64
	BN	61	64	64
	D	61	64	64
	C	62	65	65
	AVG	61	64	64
NOV	W	52	55	55
	AN	53	56	56
	BN	53	55	55
	D	52	55	55
	C	53	56	56
	AVG	53	55	55
DEC	W	47	49	49
	AN	47	50	50
	BN	46	49	49
	D	46	49	48
	C	45	47	48
	AVG	46	49	49

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

Alternative 1A: Feather River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	1.9 (4%)	0 (0%)
	AN	1.8 (4%)	0 (0%)
	BN	1.9 (4.1%)	0 (0.1%)
	D	2.2 (4.8%)	0.1 (0.2%)
	C	2.2 (4.8%)	-0.1 (-0.2%)
	AVG	2 (4.3%)	0 (0%)
FEB	W	1.9 (3.9%)	0 (0%)
	AN	1.9 (3.8%)	0 (-0.1%)
	BN	1.7 (3.4%)	0 (0%)
	D	1.9 (3.8%)	0 (0%)
	C	2.2 (4.3%)	0 (0%)
	AVG	1.9 (3.8%)	0 (0%)
MAR	W	1.8 (3.3%)	0 (0.1%)
	AN	1.2 (2.3%)	-0.1 (-0.2%)
	BN	1.9 (3.4%)	0 (0%)
	D	1.7 (3.1%)	0 (0%)
	C	2.1 (3.8%)	0.1 (0.1%)
	AVG	1.7 (3.2%)	0 (0%)
APR	W	1.6 (2.7%)	0 (0%)
	AN	1.9 (3.2%)	0 (0%)
	BN	1.4 (2.4%)	-0.2 (-0.4%)
	D	1.9 (3.1%)	-0.2 (-0.2%)
	C	2.1 (3.3%)	-0.1 (-0.2%)
	AVG	1.8 (2.9%)	-0.1 (-0.1%)
MAY	W	2.9 (4.5%)	-0.1 (-0.2%)
	AN	2.5 (3.7%)	-0.5 (-0.7%)
	BN	2.1 (3.1%)	-0.5 (-0.7%)
	D	2.4 (3.5%)	-0.2 (-0.3%)
	C	2.7 (4%)	0 (0%)
	AVG	2.6 (3.8%)	-0.2 (-0.4%)
JUN	W	2.4 (3.5%)	-1.1 (-1.4%)
	AN	1.1 (1.6%)	-2.2 (-3%)
	BN	1.7 (2.3%)	-1.7 (-2.3%)
	D	3.3 (4.5%)	-0.5 (-0.6%)
	C	3.5 (4.8%)	0 (0%)
	AVG	2.5 (3.5%)	-1 (-1.4%)
JUL	W	3.6 (4.9%)	1 (1.3%)
	AN	3.1 (4.3%)	0.4 (0.6%)
	BN	3.9 (5.3%)	0.8 (1%)
	D	5.4 (7.5%)	2.1 (2.8%)
	C	5.8 (7.8%)	1.3 (1.7%)
	AVG	4.3 (5.9%)	1.2 (1.5%)

Alternative 1A: Feather River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
AUG	W	3.7 (5%)	1.1 (1.5%)
	AN	3.8 (5.3%)	1.1 (1.5%)
	BN	4 (5.5%)	0.9 (1.2%)
	D	5.6 (7.9%)	0.9 (1.2%)
	C	4.2 (5.6%)	-0.1 (-0.2%)
	AVG	4.2 (5.9%)	0.9 (1.1%)
SEP	W	0.1 (0.1%)	0.8 (1.1%)
	AN	1.3 (1.8%)	1.4 (2%)
	BN	3.9 (5.6%)	1 (1.3%)
	D	4.3 (6.2%)	-0.1 (-0.1%)
	C	3.5 (5%)	-0.1 (-0.2%)
	AVG	2.4 (3.4%)	0.6 (0.8%)
OCT	W	3.1 (5.1%)	-0.1 (-0.1%)
	AN	2.4 (3.8%)	-0.2 (-0.3%)
	BN	3 (4.9%)	0.1 (0.1%)
	D	3.1 (5%)	0 (0%)
	C	3.1 (5%)	-0.2 (-0.3%)
	AVG	3 (4.9%)	-0.1 (-0.1%)
NOV	W	2.8 (5.3%)	0 (0%)
	AN	2.7 (5.1%)	-0.2 (-0.3%)
	BN	2.8 (5.2%)	-0.1 (-0.2%)
	D	2.8 (5.4%)	0 (0.1%)
	C	2.9 (5.5%)	0.1 (0.2%)
	AVG	2.8 (5.3%)	0 (0%)
DEC	W	1.9 (4.2%)	0 (0.1%)
	AN	2.7 (5.7%)	-0.2 (-0.5%)
	BN	2.9 (6.2%)	0.1 (0.2%)
	D	2.3 (5%)	-0.3 (-0.6%)
	C	2.5 (5.5%)	0.1 (0.3%)
	AVG	2.4 (5.1%)	0 (-0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.1.15 American River below Nimbus Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 1A Model Scenarios in**
3 **the American River below Nimbus Dam, Year-Round**

Alternative 1A: American River below Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	47	50	50
	AN	47	49	50
	BN	46	49	49
	D	47	49	49
	C	47	50	50
	AVG	47	50	50
FEB	W	48	51	51
	AN	48	52	52
	BN	47	51	51
	D	49	52	52
	C	51	54	54
	AVG	48	52	52
MAR	W	52	55	55
	AN	53	56	56
	BN	53	56	56
	D	53	57	57
	C	55	58	58
	AVG	53	56	56
APR	W	56	59	59
	AN	57	60	60
	BN	57	61	61
	D	59	62	61
	C	59	63	63
	AVG	58	60	60
MAY	W	60	64	64
	AN	61	66	65
	BN	61	65	65
	D	64	67	66
	C	64	68	68
	AVG	62	66	65
JUN	W	64	67	66
	AN	65	68	67
	BN	65	68	67
	D	67	69	69
	C	68	72	72
	AVG	66	68	68
JUL	W	66	68	68
	AN	66	66	67
	BN	66	67	67
	D	67	69	70
	C	70	74	75
	AVG	67	69	69

Alternative 1A: American River below Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LLТ
AUG	W	67	70	70
	AN	67	69	70
	BN	67	69	70
	D	67	71	72
	C	70	76	77
	AVG	67	71	71
SEP	W	65	68	68
	AN	66	69	69
	BN	66	69	69
	D	66	71	71
	C	68	73	73
	AVG	66	70	70
OCT	W	58	68	67
	AN	59	68	68
	BN	58	68	68
	D	59	67	67
	C	61	68	68
	AVG	59	68	68
NOV	W	57	61	61
	AN	57	61	61
	BN	56	61	61
	D	57	61	60
	C	58	61	61
	AVG	57	61	61
DEC	W	50	53	53
	AN	51	53	53
	BN	50	52	52
	D	50	53	53
	C	50	52	53
	AVG	50	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the American River below Nimbus Dam, Year-Round**

Alternative 1A: American River below Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	3.1 (6.7%)	0 (0.1%)
	AN	2.7 (5.8%)	0 (0.1%)
	BN	3 (6.5%)	0 (0.1%)
	D	2.8 (6%)	-0.1 (-0.2%)
	C	2.8 (6.1%)	-0.1 (-0.3%)
	AVG	2.9 (6.3%)	0 (0%)
FEB	W	3.4 (7.2%)	0 (0%)
	AN	3.8 (7.9%)	0 (0%)
	BN	3.3 (7.1%)	0.1 (0.1%)
	D	3.4 (7%)	0 (0%)
	C	3.5 (6.8%)	0.2 (0.3%)
	AVG	3.5 (7.2%)	0 (0.1%)
MAR	W	3.1 (6%)	0 (0%)
	AN	3 (5.6%)	0 (0.1%)
	BN	2.6 (5%)	0 (0.1%)
	D	3.4 (6.3%)	-0.1 (-0.1%)
	C	2.9 (5.3%)	-0.1 (-0.1%)
	AVG	3 (5.7%)	0 (0%)
APR	W	3 (5.3%)	0 (0%)
	AN	3.2 (5.5%)	0 (0%)
	BN	3.1 (5.4%)	0 (0%)
	D	2.3 (4%)	-0.2 (-0.3%)
	C	3.4 (5.7%)	0.2 (0.3%)
	AVG	2.9 (5.1%)	0 (0%)
MAY	W	4.1 (6.9%)	-0.1 (-0.1%)
	AN	4.4 (7.2%)	-0.4 (-0.6%)
	BN	3.9 (6.4%)	-0.2 (-0.3%)
	D	2.3 (3.6%)	-0.8 (-1.1%)
	C	3.8 (5.9%)	0.1 (0.2%)
	AVG	3.7 (5.9%)	-0.3 (-0.4%)
JUN	W	2.3 (3.6%)	-0.7 (-1%)
	AN	1.9 (2.9%)	-0.9 (-1.3%)
	BN	2.1 (3.3%)	-0.9 (-1.3%)
	D	1.5 (2.3%)	-0.3 (-0.5%)
	C	3.9 (5.7%)	-0.4 (-0.5%)
	AVG	2.3 (3.5%)	-0.6 (-0.9%)
JUL	W	1.6 (2.4%)	0.1 (0.1%)
	AN	0.9 (1.4%)	0.5 (0.7%)
	BN	1.6 (2.4%)	0.4 (0.6%)
	D	3 (4.5%)	0.8 (1.1%)
	C	4.8 (6.8%)	0.4 (0.5%)
	AVG	2.3 (3.4%)	0.4 (0.6%)

Alternative 1A: American River below Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	3.1 (4.7%)	0 (-0.1%)
	AN	2.7 (4%)	0.6 (0.9%)
	BN	3 (4.4%)	1.1 (1.6%)
	D	4.8 (7.2%)	0.6 (0.9%)
	C	7.1 (10.1%)	0.8 (1.1%)
	AVG	4 (5.9%)	0.5 (0.7%)
SEP	W	2.8 (4.3%)	0.1 (0.2%)
	AN	3.6 (5.5%)	0.5 (0.8%)
	BN	2.9 (4.4%)	0.2 (0.3%)
	D	4.6 (7%)	-0.4 (-0.5%)
	C	5 (7.3%)	0.1 (0.2%)
	AVG	3.7 (5.5%)	0.1 (0.1%)
OCT	W	9.1 (15.6%)	-0.2 (-0.3%)
	AN	8.7 (14.7%)	0 (0%)
	BN	9.8 (16.7%)	0 (0%)
	D	8.4 (14.2%)	0.1 (0.1%)
	C	7.5 (12.3%)	0.1 (0.1%)
	AVG	8.8 (14.8%)	0 (0%)
NOV	W	3.7 (6.4%)	-0.2 (-0.3%)
	AN	3.8 (6.6%)	-0.1 (-0.1%)
	BN	4.4 (7.9%)	0.1 (0.1%)
	D	3.7 (6.6%)	-0.1 (-0.2%)
	C	3.5 (6.1%)	-0.1 (-0.1%)
	AVG	3.8 (6.7%)	-0.1 (-0.2%)
DEC	W	2.5 (5.1%)	-0.1 (-0.1%)
	AN	2.7 (5.4%)	0 (0.1%)
	BN	2.8 (5.5%)	0 (0.1%)
	D	2.6 (5.1%)	-0.1 (-0.2%)
	C	2.6 (5.2%)	0.1 (0.1%)
	AVG	2.6 (5.2%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.1.16 American River at Watt Avenue**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 1A Model Scenarios in**
3 **the American River at Watt Avenue, Year-Round**

Alternative 1A: American River at Watt Avenue				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	46	49	49
	C	46	49	49
	AVG	46	49	49
FEB	W	48	52	52
	AN	48	52	52
	BN	48	51	51
	D	49	52	52
	C	51	54	54
	AVG	49	52	52
MAR	W	53	56	56
	AN	53	56	56
	BN	54	56	56
	D	54	57	57
	C	56	58	58
	AVG	54	56	56
APR	W	56	59	59
	AN	58	61	61
	BN	58	61	61
	D	60	63	63
	C	61	64	64
	AVG	58	61	61
MAY	W	61	65	65
	AN	62	67	67
	BN	62	67	66
	D	65	68	67
	C	66	69	69
	AVG	63	67	67
JUN	W	65	68	67
	AN	67	70	69
	BN	67	70	69
	D	69	71	71
	C	69	73	73
	AVG	67	70	69
JUL	W	68	70	70
	AN	67	68	69
	BN	67	69	69
	D	68	71	72
	C	72	76	76
	AVG	68	71	71

Alternative 1A: American River at Watt Avenue				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL
AUG	W	68	72	72
	AN	69	72	72
	BN	69	72	73
	D	69	73	74
	C	71	77	77
	AVG	69	73	73
SEP	W	66	69	69
	AN	66	70	70
	BN	67	70	71
	D	67	72	72
	C	69	73	74
	AVG	67	71	71
OCT	W	59	67	67
	AN	60	67	67
	BN	59	68	68
	D	60	67	67
	C	61	68	68
	AVG	60	67	67
NOV	W	56	60	60
	AN	56	60	60
	BN	56	60	60
	D	56	59	59
	C	57	60	60
	AVG	56	60	60
DEC	W	50	52	52
	AN	50	52	52
	BN	49	51	52
	D	49	52	51
	C	49	51	51
	AVG	49	52	52

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the American River at Watt Avenue, Year-Round**

Alternative 1A: American River at Watt Avenue			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
JAN	W	3.1 (6.7%)	0 (0.1%)
	AN	2.7 (5.8%)	0 (0.1%)
	BN	2.9 (6.4%)	0 (0%)
	D	2.7 (5.8%)	-0.1 (-0.2%)
	C	2.8 (6.1%)	-0.1 (-0.2%)
	AVG	2.9 (6.2%)	0 (0%)
FEB	W	3.4 (7.1%)	0 (0%)
	AN	3.7 (7.7%)	0 (0%)
	BN	3.2 (6.7%)	0 (0.1%)
	D	3.2 (6.5%)	0 (0%)
	C	3.4 (6.6%)	0.1 (0.2%)
	AVG	3.4 (6.9%)	0 (0%)
MAR	W	3 (5.7%)	0 (0%)
	AN	2.9 (5.4%)	0 (0.1%)
	BN	2.5 (4.7%)	0 (0%)
	D	3.2 (5.8%)	0 (-0.1%)
	C	2.7 (4.8%)	0 (-0.1%)
	AVG	2.9 (5.4%)	0 (0%)
APR	W	2.9 (5.1%)	0 (0%)
	AN	3.1 (5.4%)	0 (0%)
	BN	3 (5.1%)	0 (0%)
	D	2.4 (4%)	-0.2 (-0.2%)
	C	3 (5%)	0.2 (0.3%)
	AVG	2.8 (4.9%)	0 (0%)
MAY	W	4.2 (6.9%)	-0.1 (-0.1%)
	AN	4.4 (7%)	-0.5 (-0.7%)
	BN	3.8 (6.1%)	-0.3 (-0.5%)
	D	2.3 (3.5%)	-0.7 (-1%)
	C	3.4 (5.2%)	0.1 (0.1%)
	AVG	3.6 (5.7%)	-0.3 (-0.4%)
JUN	W	2.6 (4%)	-0.9 (-1.3%)
	AN	1.9 (2.9%)	-1 (-1.5%)
	BN	2.1 (3.2%)	-0.9 (-1.4%)
	D	1.9 (2.8%)	-0.3 (-0.5%)
	C	3.7 (5.3%)	-0.3 (-0.4%)
	AVG	2.4 (3.6%)	-0.7 (-1%)
JUL	W	2.3 (3.4%)	0.2 (0.3%)
	AN	1.4 (2%)	0.5 (0.8%)
	BN	2.2 (3.3%)	0.5 (0.7%)
	D	3.7 (5.4%)	0.8 (1.1%)
	C	3.9 (5.5%)	0 (0%)
	AVG	2.7 (3.9%)	0.4 (0.6%)

Alternative 1A: American River at Watt Avenue			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	4 (6%)	-0.1 (-0.1%)
	AN	3.4 (5%)	0.5 (0.7%)
	BN	3.7 (5.4%)	1.2 (1.6%)
	D	5.3 (7.8%)	0.7 (1%)
	C	5.9 (8.3%)	0.5 (0.6%)
	AVG	4.5 (6.5%)	0.5 (0.7%)
SEP	W	3.2 (4.9%)	0.3 (0.4%)
	AN	3.9 (5.8%)	0.4 (0.6%)
	BN	3.6 (5.4%)	0.3 (0.4%)
	D	4.6 (6.8%)	-0.2 (-0.3%)
	C	4.4 (6.4%)	0.1 (0.1%)
	AVG	3.8 (5.8%)	0.2 (0.2%)
OCT	W	7.6 (12.8%)	-0.2 (-0.3%)
	AN	7.4 (12.4%)	0 (-0.1%)
	BN	8.2 (13.9%)	0 (0%)
	D	6.9 (11.5%)	0.1 (0.1%)
	C	6.4 (10.3%)	0.2 (0.2%)
	AVG	7.3 (12.3%)	0 (0%)
NOV	W	3.4 (6%)	-0.2 (-0.3%)
	AN	3.5 (6.2%)	-0.1 (-0.1%)
	BN	4 (7.3%)	0 (0.1%)
	D	3.3 (6%)	-0.1 (-0.1%)
	C	3.3 (5.8%)	-0.1 (-0.1%)
	AVG	3.5 (6.2%)	-0.1 (-0.2%)
DEC	W	2.4 (4.8%)	-0.1 (-0.2%)
	AN	2.6 (5.1%)	0 (0%)
	BN	2.7 (5.5%)	0.1 (0.1%)
	D	2.4 (4.8%)	-0.1 (-0.2%)
	C	2.5 (5.1%)	0.2 (0.4%)
	AVG	2.5 (5%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.1.17 American River at the Confluence with the**
2 **Sacramento River**

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

Alternative 1A: American River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	47	50	50
	AN	46	49	49
	BN	46	48	48
	D	46	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	48	52	52
	AN	48	52	52
	BN	48	51	51
	D	49	52	52
	C	51	55	55
	AVG	49	52	52
MAR	W	53	56	56
	AN	53	56	56
	BN	54	56	56
	D	55	58	58
	C	56	59	59
	AVG	54	57	57
APR	W	57	60	60
	AN	58	61	61
	BN	59	62	62
	D	61	63	63
	C	62	64	64
	AVG	59	62	62
MAY	W	61	66	65
	AN	63	68	67
	BN	63	67	67
	D	66	69	68
	C	67	70	70
	AVG	64	67	67
JUN	W	65	69	68
	AN	68	71	70
	BN	68	71	70
	D	70	72	72
	C	70	74	74
	AVG	68	71	70

Alternative 1A: American River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JUL	W	69	71	71
	AN	68	69	70
	BN	68	70	71
	D	69	72	73
	C	73	76	76
	AVG	69	72	72
AUG	W	69	73	73
	AN	69	73	73
	BN	70	73	74
	D	69	74	75
	C	72	77	78
	AVG	70	74	74
SEP	W	66	69	70
	AN	67	70	71
	BN	67	71	71
	D	68	72	72
	C	69	74	74
	AVG	67	71	71
OCT	W	60	67	67
	AN	60	67	67
	BN	60	67	67
	D	60	66	66
	C	62	67	68
	AVG	60	67	67
NOV	W	56	60	59
	AN	56	60	59
	BN	55	59	59
	D	56	59	59
	C	57	60	60
	AVG	56	59	59
DEC	W	49	52	52
	AN	49	52	52
	BN	48	51	51
	D	49	51	51
	C	48	50	50
	AVG	49	51	51

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

Alternative 1A: American River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	3.1 (6.7%)	0 (0.1%)
	AN	2.8 (5.9%)	0 (0.1%)
	BN	2.9 (6.3%)	0 (0.1%)
	D	2.6 (5.6%)	-0.1 (-0.2%)
	C	2.9 (6.2%)	0 (-0.1%)
	AVG	2.9 (6.2%)	0 (0%)
FEB	W	3.4 (7%)	0 (0%)
	AN	3.7 (7.6%)	0 (0%)
	BN	3.1 (6.5%)	0 (0.1%)
	D	3.1 (6.2%)	0 (-0.1%)
	C	3.2 (6.3%)	0.1 (0.1%)
	AVG	3.3 (6.7%)	0 (0%)
MAR	W	2.9 (5.6%)	0 (0%)
	AN	2.8 (5.3%)	0 (0%)
	BN	2.5 (4.6%)	0 (-0.1%)
	D	3.1 (5.6%)	0 (0%)
	C	2.6 (4.6%)	0 (0%)
	AVG	2.8 (5.2%)	0 (0%)
APR	W	2.8 (5%)	0 (0%)
	AN	3 (5.2%)	0 (0%)
	BN	2.9 (5%)	0 (0%)
	D	2.5 (4%)	-0.1 (-0.2%)
	C	2.8 (4.6%)	0.2 (0.3%)
	AVG	2.8 (4.7%)	0 (0%)
MAY	W	4.2 (6.9%)	-0.1 (-0.2%)
	AN	4.4 (7%)	-0.5 (-0.7%)
	BN	3.7 (5.9%)	-0.4 (-0.6%)
	D	2.3 (3.5%)	-0.6 (-0.9%)
	C	3.2 (4.8%)	0 (0.1%)
	AVG	3.6 (5.7%)	-0.3 (-0.4%)
JUN	W	2.7 (4.2%)	-0.9 (-1.4%)
	AN	1.9 (2.9%)	-1.1 (-1.5%)
	BN	2.1 (3.2%)	-1 (-1.4%)
	D	2.1 (3.1%)	-0.4 (-0.5%)
	C	3.6 (5.2%)	-0.2 (-0.3%)
	AVG	2.5 (3.7%)	-0.7 (-1%)
JUL	W	2.6 (3.8%)	0.3 (0.4%)
	AN	1.6 (2.4%)	0.6 (0.8%)
	BN	2.6 (3.8%)	0.6 (0.8%)
	D	3.9 (5.7%)	0.8 (1.1%)
	C	3.6 (5%)	-0.1 (-0.2%)
	AVG	2.9 (4.2%)	0.4 (0.6%)

Alternative 1A: American River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
AUG	W	4.5 (6.5%)	-0.1 (-0.1%)
	AN	3.8 (5.4%)	0.4 (0.6%)
	BN	4.1 (5.8%)	1.2 (1.6%)
	D	5.5 (7.9%)	0.7 (1%)
	C	5.5 (7.6%)	0.4 (0.5%)
	AVG	4.7 (6.7%)	0.4 (0.6%)
SEP	W	3.4 (5.2%)	0.3 (0.4%)
	AN	4 (6%)	0.4 (0.5%)
	BN	3.9 (5.8%)	0.3 (0.4%)
	D	4.5 (6.7%)	-0.1 (-0.2%)
	C	4.2 (6%)	0.1 (0.1%)
	AVG	4 (5.9%)	0.2 (0.3%)
OCT	W	6.8 (11.4%)	-0.2 (-0.2%)
	AN	6.8 (11.2%)	-0.1 (-0.1%)
	BN	7.4 (12.4%)	0 (0%)
	D	6.2 (10.2%)	0.1 (0.1%)
	C	5.7 (9.3%)	0.2 (0.3%)
	AVG	6.6 (11%)	0 (0%)
NOV	W	3.2 (5.8%)	-0.2 (-0.3%)
	AN	3.4 (6.1%)	-0.1 (-0.1%)
	BN	3.8 (6.9%)	0 (0%)
	D	3.1 (5.7%)	-0.1 (-0.1%)
	C	3.2 (5.7%)	0 (0%)
	AVG	3.3 (6%)	-0.1 (-0.2%)
DEC	W	2.3 (4.7%)	-0.1 (-0.2%)
	AN	2.5 (5.1%)	0 (0%)
	BN	2.7 (5.5%)	0.1 (0.1%)
	D	2.3 (4.7%)	-0.1 (-0.1%)
	C	2.4 (5.1%)	0.3 (0.5%)
	AVG	2.4 (5%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.1.18 Stanislaus River at Knights Ferry**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 1A Model Scenarios in**
3 **the Stanislaus River at Knights Ferry, Year-Round**

Alternative 1A: Stanislaus River at Knights Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	48	51	51
	C	49	52	52
	AVG	49	52	52
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	49	52	52
	AN	49	53	53
	BN	51	54	54
	D	51	54	54
	C	52	55	55
	AVG	50	54	54
APR	W	50	53	53
	AN	50	54	54
	BN	51	55	55
	D	52	55	55
	C	53	57	57
	AVG	51	54	54
MAY	W	51	55	55
	AN	53	56	56
	BN	54	57	57
	D	55	58	58
	C	56	59	59
	AVG	53	57	57
JUN	W	54	56	56
	AN	56	59	59
	BN	58	61	61
	D	59	63	63
	C	60	64	64
	AVG	57	60	60
JUL	W	57	59	59
	AN	59	62	62
	BN	60	63	63
	D	61	65	65
	C	62	66	66
	AVG	59	63	63

Alternative 1A: Stanislaus River at Knights Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
AUG	W	58	61	61
	AN	60	63	63
	BN	60	64	64
	D	61	65	65
	C	62	67	67
	AVG	60	64	64
SEP	W	59	62	62
	AN	60	64	64
	BN	61	64	64
	D	62	65	65
	C	63	67	67
	AVG	61	64	64
OCT	W	59	62	62
	AN	59	62	62
	BN	59	62	62
	D	58	62	62
	C	60	64	64
	AVG	59	63	63
NOV	W	56	59	59
	AN	56	59	59
	BN	56	59	59
	D	56	59	59
	C	57	61	61
	AVG	56	60	60
DEC	W	52	55	55
	AN	52	55	55
	BN	51	54	54
	D	51	54	54
	C	52	55	55
	AVG	51	55	55

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
 2 **Water Temperatures in the Stanislaus River at Knights Ferry, Year-Round**

Alternative 1A: Stanislaus River at Knights Ferry			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
JAN	W	3.1 (6.3%)	0 (0%)
	AN	3.1 (6.4%)	0 (0%)
	BN	3.1 (6.4%)	0 (0%)
	D	3 (6.3%)	0 (0%)
	C	3.1 (6.2%)	0 (0%)
	AVG	3.1 (6.3%)	0 (0%)
FEB	W	3.1 (6.4%)	0 (0%)
	AN	3.2 (6.5%)	0 (0%)
	BN	3 (6.2%)	0 (0%)
	D	3.2 (6.5%)	0 (0%)
	C	3.1 (6.2%)	0 (0%)
	AVG	3.1 (6.4%)	0 (0%)
MAR	W	3.2 (6.6%)	0 (0%)
	AN	3.6 (7.3%)	0 (0%)
	BN	3.1 (6.1%)	0 (0%)
	D	3.3 (6.5%)	0 (0%)
	C	3 (5.8%)	0 (0%)
	AVG	3.3 (6.5%)	0 (0%)
APR	W	3.1 (6.2%)	0 (0%)
	AN	3.3 (6.6%)	0 (0%)
	BN	3.4 (6.6%)	0 (0%)
	D	3.5 (6.7%)	0 (0%)
	C	3.6 (6.7%)	0 (0%)
	AVG	3.3 (6.5%)	0 (0%)
MAY	W	3 (5.9%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)
	BN	3.5 (6.5%)	0 (0%)
	D	3.4 (6.2%)	0 (0%)
	C	3.3 (5.9%)	0 (0%)
	AVG	3.2 (6.1%)	0 (0%)
JUN	W	2.6 (4.8%)	0 (0%)
	AN	3.3 (6%)	0 (0%)
	BN	3.6 (6.3%)	0 (0%)
	D	3.8 (6.5%)	0 (0%)
	C	4.1 (6.9%)	0 (0%)
	AVG	3.4 (6%)	0 (0%)
JUL	W	2.5 (4.4%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)
	BN	3.5 (5.9%)	0 (0%)
	D	3.7 (6.1%)	0 (0%)
	C	4.1 (6.6%)	0 (0%)
	AVG	3.3 (5.6%)	0 (0%)

Alternative 1A: Stanislaus River at Knights Ferry			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	3.4 (5.8%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)
	BN	3.5 (5.8%)	0 (0%)
	D	3.6 (5.8%)	0 (0%)
	C	4.3 (6.9%)	0 (0%)
	AVG	3.6 (6%)	0 (0%)
SEP	W	3.5 (6%)	0 (0%)
	AN	3.6 (6%)	0 (0%)
	BN	3.6 (5.9%)	0 (0%)
	D	3.7 (6%)	0 (0%)
	C	4 (6.3%)	0.1 (0.1%)
	AVG	3.7 (6%)	0 (0%)
OCT	W	3.5 (5.9%)	0 (0%)
	AN	3 (5.1%)	0 (0%)
	BN	3.3 (5.6%)	0 (0%)
	D	3.4 (5.9%)	0 (0%)
	C	3.7 (6.1%)	0 (0%)
	AVG	3.4 (5.7%)	0 (0%)
NOV	W	3.3 (5.8%)	0 (0%)
	AN	3.1 (5.5%)	0 (0%)
	BN	3.3 (5.8%)	0 (0%)
	D	3.4 (6%)	0 (0%)
	C	3.5 (6%)	0 (0%)
	AVG	3.3 (5.8%)	0 (0%)
DEC	W	3.3 (6.4%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)
	BN	3.3 (6.4%)	0 (0%)
	D	3.2 (6.2%)	0 (0%)
	C	3.3 (6.4%)	0 (0%)
	AVG	3.2 (6.3%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.1.19 Stanislaus River at Orange Blossom Bridge**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 1A Model Scenarios in**
3 **the Stanislaus River at Orange Blossom Bridge, Year-Round**

Alternative 1A: Stanislaus River at Orange Blossom Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	48	51	51
	AN	48	51	51
	BN	48	51	51
	D	47	50	50
	C	48	51	51
	AVG	48	51	51
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	49	53	53
	AN	50	54	54
	BN	52	55	55
	D	52	56	56
	C	53	56	56
	AVG	51	54	54
APR	W	50	53	53
	AN	51	54	54
	BN	52	56	56
	D	53	56	56
	C	55	58	58
	AVG	52	55	55
MAY	W	53	56	56
	AN	54	57	57
	BN	55	59	59
	D	56	60	60
	C	58	61	61
	AVG	55	58	58
JUN	W	56	58	58
	AN	58	62	62
	BN	60	64	64
	D	62	66	66
	C	63	67	67
	AVG	59	63	63
JUL	W	60	62	62
	AN	63	66	66
	BN	63	67	67
	D	64	68	68
	C	65	69	69
	AVG	63	66	66

Alternative 1A: Stanislaus River at Orange Blossom Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
AUG	W	60	64	64
	AN	63	66	66
	BN	63	66	66
	D	64	68	68
	C	65	69	69
	AVG	63	66	66
SEP	W	60	64	64
	AN	63	66	66
	BN	63	67	67
	D	63	67	67
	C	64	68	68
	AVG	62	66	66
OCT	W	59	62	62
	AN	59	62	62
	BN	59	62	62
	D	59	62	62
	C	60	64	64
	AVG	59	62	62
NOV	W	55	58	58
	AN	55	58	58
	BN	55	58	58
	D	55	58	58
	C	56	59	59
	AVG	55	58	58
DEC	W	50	54	54
	AN	50	53	53
	BN	49	53	53
	D	50	52	52
	C	50	53	53
	AVG	50	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Orange Blossom Bridge, Year-Round**

Alternative 1A: Stanislaus River at Orange Blossom Bridge			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
JAN	W	3 (6.2%)	0 (0%)
	AN	3 (6.3%)	0 (0%)
	BN	2.9 (6.1%)	0 (0%)
	D	2.8 (5.9%)	0 (0%)
	C	2.8 (5.8%)	0 (0%)
	AVG	2.9 (6.1%)	0 (0%)
FEB	W	3.1 (6.3%)	0 (0%)
	AN	3.1 (6.3%)	0 (0%)
	BN	3 (6%)	0 (0%)
	D	3.2 (6.5%)	0 (0%)
	C	3.2 (6.3%)	0 (0%)
	AVG	3.1 (6.3%)	0 (0%)
MAR	W	3.2 (6.4%)	0 (0%)
	AN	3.7 (7.3%)	0 (0%)
	BN	3 (5.8%)	0 (0%)
	D	3.4 (6.6%)	0 (0%)
	C	3.1 (5.8%)	0 (0%)
	AVG	3.3 (6.4%)	0 (0%)
APR	W	3.1 (6.1%)	0 (0%)
	AN	3.3 (6.5%)	0 (0%)
	BN	3.5 (6.7%)	0 (0%)
	D	3.6 (6.8%)	0 (0%)
	C	3.6 (6.6%)	0 (0%)
	AVG	3.4 (6.5%)	0 (0%)
MAY	W	3.2 (6%)	0 (0%)
	AN	3.3 (6%)	0 (0%)
	BN	3.9 (7.1%)	0 (0%)
	D	3.6 (6.5%)	0 (0%)
	C	3.5 (6%)	0 (0%)
	AVG	3.4 (6.2%)	0 (0%)
JUN	W	2.3 (4.1%)	0 (0%)
	AN	3.8 (6.6%)	0 (0%)
	BN	3.9 (6.5%)	0 (0%)
	D	4.3 (6.9%)	0 (0%)
	C	4.1 (6.6%)	0.1 (0.1%)
	AVG	3.5 (5.9%)	0 (0%)
JUL	W	2.1 (3.5%)	0 (0%)
	AN	3.6 (5.7%)	0 (0%)
	BN	3.5 (5.6%)	0 (0%)
	D	3.8 (5.9%)	0 (0%)
	C	4 (6.2%)	0 (0%)
	AVG	3.2 (5.2%)	0 (0%)

Alternative 1A: Stanislaus River at Orange Blossom Bridge			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	3.9 (6.4%)	0 (0%)
	AN	3.5 (5.7%)	0 (0%)
	BN	3.5 (5.5%)	0 (0%)
	D	3.5 (5.5%)	0 (0%)
	C	4.2 (6.5%)	0 (0%)
	AVG	3.7 (6%)	0 (0%)
SEP	W	3.8 (6.3%)	0 (0%)
	AN	3.9 (6.2%)	0 (0%)
	BN	3.7 (6%)	0 (0%)
	D	3.7 (5.9%)	0 (0%)
	C	3.8 (6%)	-0.1 (-0.2%)
	AVG	3.8 (6.1%)	0 (0%)
OCT	W	3.3 (5.6%)	0 (0%)
	AN	3 (5.1%)	0 (0%)
	BN	3.2 (5.4%)	0 (0%)
	D	3.4 (5.7%)	0 (0%)
	C	3.5 (5.9%)	0 (0%)
	AVG	3.3 (5.5%)	0 (0%)
NOV	W	3.1 (5.7%)	0 (0%)
	AN	3 (5.5%)	0 (0%)
	BN	3.2 (5.8%)	0 (0%)
	D	3.2 (5.9%)	0 (0%)
	C	3.2 (5.7%)	0 (0%)
	AVG	3.1 (5.7%)	0 (0%)
DEC	W	3.2 (6.4%)	0 (0%)
	AN	2.9 (5.9%)	0 (0%)
	BN	3.3 (6.6%)	0 (0%)
	D	3 (6%)	0 (0%)
	C	3.1 (6.2%)	0 (0%)
	AVG	3.1 (6.2%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.1.20 Stanislaus River at Riverbank**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 1A Model Scenarios in**
3 **the Stanislaus River at Riverbank, Year-Round**

Alternative 1A: Stanislaus River at Riverbank				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	45	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	50	53	53
	BN	50	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	51	54	54
	AN	52	55	55
	BN	53	56	56
	D	54	57	57
	C	54	57	57
	AVG	52	56	56
APR	W	52	55	55
	AN	53	56	56
	BN	54	57	57
	D	54	58	58
	C	57	60	60
	AVG	54	57	57
MAY	W	56	59	59
	AN	57	60	60
	BN	58	62	62
	D	59	62	62
	C	60	64	64
	AVG	58	61	61
JUN	W	60	62	62
	AN	62	66	66
	BN	64	68	68
	D	66	70	70
	C	66	70	70
	AVG	63	67	67
JUL	W	65	67	67
	AN	68	71	71
	BN	68	71	71
	D	68	72	72
	C	68	72	72
	AVG	67	70	70

Alternative 1A: Stanislaus River at Riverbank				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL
AUG	W	65	69	69
	AN	67	70	70
	BN	67	70	70
	D	68	71	71
	C	67	71	71
	AVG	66	70	70
SEP	W	64	67	67
	AN	66	70	70
	BN	66	69	69
	D	66	70	70
	C	66	70	69
	AVG	65	69	69
OCT	W	59	63	63
	AN	59	62	62
	BN	59	62	62
	D	59	62	62
	C	61	64	64
	AVG	60	63	63
NOV	W	53	56	56
	AN	53	56	56
	BN	53	56	56
	D	53	56	56
	C	54	57	57
	AVG	53	56	56
DEC	W	48	51	51
	AN	48	50	50
	BN	47	50	50
	D	47	50	50
	C	47	50	50
	AVG	47	50	50

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Riverbank, Year-Round**

Alternative 1A: Stanislaus River at Riverbank			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL T	NAA vs. A1A_LL T
JAN	W	2.9 (6.3%)	0 (0%)
	AN	3 (6.4%)	0 (0%)
	BN	2.8 (6%)	0 (0%)
	D	2.5 (5.6%)	0 (0%)
	C	2.7 (5.8%)	0 (0%)
	AVG	2.8 (6%)	0 (0%)
FEB	W	2.9 (5.9%)	0 (0%)
	AN	2.9 (5.8%)	0 (0%)
	BN	2.7 (5.5%)	0 (0%)
	D	3 (6.1%)	0 (0%)
	C	3.1 (6%)	0 (0%)
	AVG	2.9 (5.9%)	0 (0%)
MAR	W	3 (5.9%)	0 (0%)
	AN	3.6 (7%)	0 (0%)
	BN	2.8 (5.3%)	0 (0%)
	D	3.4 (6.4%)	0 (0%)
	C	3 (5.6%)	0 (0%)
	AVG	3.2 (6%)	0 (0%)
APR	W	3 (5.7%)	0 (0%)
	AN	3.2 (6.1%)	0 (0%)
	BN	3.6 (6.6%)	0 (0%)
	D	3.6 (6.7%)	0 (0%)
	C	3.6 (6.3%)	0 (0%)
	AVG	3.3 (6.2%)	0 (0%)
MAY	W	3.2 (5.8%)	0 (0%)
	AN	3.4 (6%)	0 (0%)
	BN	4.3 (7.4%)	0 (0%)
	D	3.9 (6.6%)	0 (0%)
	C	3.5 (5.8%)	0 (0%)
	AVG	3.6 (6.2%)	0 (0%)
JUN	W	2 (3.4%)	0 (0%)
	AN	4 (6.4%)	0 (0%)
	BN	3.7 (5.7%)	0 (0%)
	D	4 (6.1%)	0 (0%)
	C	3.7 (5.6%)	0.1 (0.1%)
	AVG	3.3 (5.2%)	0 (0%)
JUL	W	1.8 (2.8%)	0 (0%)
	AN	3.3 (4.8%)	0 (0%)
	BN	3.1 (4.6%)	0 (0%)
	D	3.6 (5.3%)	0 (0%)
	C	3.5 (5.1%)	0 (0%)
	AVG	2.9 (4.3%)	0 (0%)
AUG	W	4.1 (6.4%)	0 (0%)
	AN	3.4 (5.1%)	0 (0%)
	BN	3.2 (4.8%)	0 (0%)
	D	3.3 (4.9%)	0 (0%)
	C	3.8 (5.6%)	0 (0%)
	AVG	3.6 (5.5%)	0 (0%)

Alternative 1A: Stanislaus River at Riverbank			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
SEP	W	3.9 (6.2%)	0 (0%)
	AN	3.9 (5.9%)	0 (0%)
	BN	3.7 (5.7%)	0 (0%)
	D	3.7 (5.6%)	0 (0%)
	C	3.6 (5.5%)	-0.2 (-0.2%)
	AVG	3.8 (5.8%)	0 (0%)
OCT	W	3.1 (5.3%)	0 (0%)
	AN	2.9 (4.9%)	0 (0%)
	BN	2.9 (4.9%)	0 (0%)
	D	3.1 (5.2%)	0 (0%)
	C	3.3 (5.5%)	0 (0%)
	AVG	3.1 (5.2%)	0 (0%)
NOV	W	3 (5.7%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)
	BN	3.1 (5.8%)	0 (0%)
	D	3.1 (5.8%)	0 (0%)
	C	3 (5.6%)	0 (0%)
	AVG	3.1 (5.7%)	0 (0%)
DEC	W	3.1 (6.5%)	0 (0%)
	AN	2.9 (6.1%)	0 (0%)
	BN	3.3 (7%)	0 (0%)
	D	2.8 (5.9%)	0 (0%)
	C	2.9 (6.2%)	0 (0%)
	AVG	3 (6.4%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.1.21 Stanislaus River at the Confluence with the San**
2 **Joaquin River**

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

Alternative 1A: Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JAN	W	46	49	49
	AN	46	49	49
	BN	46	49	49
	D	45	47	47
	C	45	48	48
	AVG	46	48	48
FEB	W	50	53	53
	AN	50	53	53
	BN	50	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	52	55	55
	AN	53	56	56
	BN	54	57	57
	D	55	58	58
	C	55	58	58
	AVG	54	56	56
APR	W	54	57	57
	AN	55	58	58
	BN	56	60	60
	D	57	60	60
	C	59	62	62
	AVG	56	59	59
MAY	W	59	62	62
	AN	60	63	63
	BN	60	64	64
	D	61	65	65
	C	63	66	66
	AVG	60	64	64
JUN	W	62	65	65
	AN	65	69	69
	BN	66	70	70
	D	68	72	72
	C	68	71	71
	AVG	65	69	69

Alternative 1A: Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT	EXISTING CONDITIONS	NAA	A1A_LL1
JUL	W	68	70	70
	AN	70	73	73
	BN	70	73	73
	D	70	74	74
	C	70	73	73
	AVG	69	72	72
AUG	W	67	71	71
	AN	69	72	72
	BN	68	71	71
	D	69	72	72
	C	69	72	72
	AVG	68	72	72
SEP	W	65	69	69
	AN	67	71	71
	BN	67	70	70
	D	67	70	70
	C	67	70	70
	AVG	66	70	70
OCT	W	60	63	63
	AN	60	62	62
	BN	59	62	62
	D	59	62	62
	C	61	64	64
	AVG	60	63	63
NOV	W	53	56	56
	AN	52	55	55
	BN	52	55	55
	D	52	55	55
	C	53	56	56
	AVG	52	55	55
DEC	W	47	50	50
	AN	46	49	49
	BN	45	49	49
	D	45	48	48
	C	45	48	48
	AVG	46	49	49

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

Alternative 1A: Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT	EXISTING CONDITIONS vs. A1A_LL1	NAA vs. A1A_LL1
JAN	W	2.9 (6.3%)	0 (0%)
	AN	2.9 (6.4%)	0 (0%)
	BN	2.8 (6.1%)	0 (0%)
	D	2.5 (5.7%)	0 (0%)
	C	2.8 (6.1%)	0 (0%)
	AVG	2.8 (6.2%)	0 (0%)
FEB	W	2.8 (5.7%)	0 (0%)
	AN	2.8 (5.6%)	0 (0%)
	BN	2.6 (5.2%)	0 (0%)
	D	2.8 (5.6%)	0 (0%)
	C	2.9 (5.6%)	0 (0%)
	AVG	2.8 (5.6%)	0 (0%)
MAR	W	2.9 (5.5%)	0 (0%)
	AN	3.3 (6.3%)	0 (0%)
	BN	2.6 (4.9%)	0 (0%)
	D	3.2 (5.8%)	0 (0%)
	C	2.8 (5.1%)	0 (0%)
	AVG	3 (5.5%)	0 (0%)
APR	W	2.8 (5.2%)	0 (0%)
	AN	3.1 (5.6%)	0 (0%)
	BN	3.4 (6.1%)	0 (0%)
	D	3.5 (6.1%)	0 (0%)
	C	3.2 (5.5%)	0 (0%)
	AVG	3.2 (5.6%)	0 (0%)
MAY	W	3.1 (5.3%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)
	BN	4.1 (6.8%)	0 (0%)
	D	3.7 (6%)	0 (0%)
	C	3.2 (5.1%)	0 (0%)
	AVG	3.4 (5.7%)	0 (0%)
JUN	W	2.3 (3.6%)	0 (0%)
	AN	3.7 (5.8%)	0 (0%)
	BN	3.3 (5.1%)	0 (0%)
	D	3.4 (5%)	0 (0%)
	C	3.3 (4.8%)	0 (0%)
	AVG	3.1 (4.7%)	0 (0%)
JUL	W	2.3 (3.3%)	0 (0%)
	AN	3 (4.2%)	0 (0%)
	BN	2.8 (4%)	0 (0%)
	D	3.2 (4.5%)	0 (0%)
	C	3.2 (4.5%)	0 (0%)
	AVG	2.8 (4%)	0 (0%)

Alternative 1A: Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT	EXISTING CONDITIONS vs. A1A_LLT	NAA vs. A1A_LLT
AUG	W	4.1 (6.1%)	0 (0%)
	AN	3.2 (4.7%)	0 (0%)
	BN	3.1 (4.5%)	0 (0%)
	D	3.1 (4.5%)	0 (0%)
	C	3.6 (5.2%)	0 (0%)
	AVG	3.5 (5.1%)	0 (0%)
SEP	W	3.9 (6%)	0 (0%)
	AN	3.7 (5.6%)	0 (0%)
	BN	3.7 (5.5%)	0 (0%)
	D	3.7 (5.5%)	0 (0%)
	C	3.5 (5.3%)	-0.2 (-0.2%)
	AVG	3.7 (5.6%)	0 (0%)
OCT	W	3 (5%)	0 (0%)
	AN	2.8 (4.8%)	0 (0%)
	BN	2.7 (4.5%)	0 (0%)
	D	2.9 (4.9%)	0 (0%)
	C	3.2 (5.3%)	0 (0%)
	AVG	2.9 (4.9%)	0 (0%)
NOV	W	3 (5.8%)	0 (0%)
	AN	3.2 (6%)	0 (0%)
	BN	3.1 (5.9%)	0 (0%)
	D	3.1 (5.9%)	0 (0%)
	C	2.9 (5.6%)	0 (0%)
	AVG	3.1 (5.8%)	0 (0%)
DEC	W	3.1 (6.6%)	0 (0.1%)
	AN	2.9 (6.2%)	0 (0%)
	BN	3.2 (7.1%)	0 (0%)
	D	2.8 (6.1%)	0 (0%)
	C	2.9 (6.4%)	0 (0%)
	AVG	3 (6.5%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.2 Alternative 2A**

2 **11D.2.1 Sacramento River at Keswick**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
4 **the Sacramento River at Keswick, Year-Round**

Alternative 2A: Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	46	47	47
	AN	46	48	48
	BN	47	48	48
	D	47	48	48
	C	47	48	48
	All	46	48	48
FEB	W	45	47	47
	AN	46	47	47
	BN	46	47	47
	D	46	48	48
	C	46	48	48
	All	46	47	47
MAR	W	46	47	47
	AN	46	48	48
	BN	47	48	48
	D	47	49	49
	C	48	50	50
	All	47	48	48
APR	W	47	49	49
	AN	48	50	50
	BN	48	50	50
	D	48	50	50
	C	49	51	51
	All	48	50	50
MAY	W	49	50	50
	AN	49	51	50
	BN	49	51	51
	D	49	51	51
	C	51	53	53
	All	49	51	51
JUN	W	50	51	51
	AN	50	51	51
	BN	50	51	51
	D	50	52	52
	C	53	55	55
	All	50	52	52

Alternative 2A: Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JUL	W	51	52	52
	AN	51	52	52
	BN	51	52	53
	D	51	54	54
	C	54	59	59
	All	51	53	54
AUG	W	52	54	54
	AN	52	54	55
	BN	52	54	55
	D	53	56	56
	C	57	64	64
	All	53	56	56
SEP	W	53	55	55
	AN	54	56	56
	BN	54	56	57
	D	55	59	59
	C	60	66	66
	All	55	58	58
OCT	W	54	57	57
	AN	54	57	57
	BN	54	57	58
	D	55	58	59
	C	56	60	60
	All	54	58	58
NOV	W	53	55	55
	AN	52	55	55
	BN	53	55	55
	D	53	56	56
	C	54	56	56
	All	53	55	55
DEC	W	49	50	50
	AN	49	51	51
	BN	50	52	52
	D	50	52	52
	C	51	52	52
	All	50	51	51

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

Alternative 2A: Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLТ	NAA vs. A2A_LLТ
JAN	W	1.3 (2.8%)	-0.1 (-0.1%)
	AN	1.4 (3.1%)	0 (0%)
	BN	1.6 (3.4%)	-0.1 (-0.2%)
	D	1.5 (3.2%)	-0.1 (-0.2%)
	C	1.7 (3.6%)	-0.1 (-0.3%)
	AVG	1.5 (3.1%)	-0.1 (-0.2%)
FEB	W	1.5 (3.3%)	0 (0%)
	AN	1.6 (3.6%)	0 (0%)
	BN	1.5 (3.2%)	-0.1 (-0.2%)
	D	1.6 (3.5%)	-0.1 (-0.2%)
	C	1.7 (3.7%)	-0.1 (-0.2%)
	AVG	1.6 (3.4%)	0 (-0.1%)
MAR	W	1.5 (3.2%)	0 (0%)
	AN	1.7 (3.6%)	0.1 (0.1%)
	BN	1.6 (3.4%)	0 (0.1%)
	D	1.6 (3.4%)	-0.1 (-0.1%)
	C	1.7 (3.6%)	-0.2 (-0.4%)
	AVG	1.6 (3.4%)	0 (-0.1%)
APR	W	1.6 (3.5%)	0 (0%)
	AN	1.7 (3.6%)	0 (0%)
	BN	1.5 (3.1%)	0.1 (0.3%)
	D	1.5 (3%)	-0.1 (-0.2%)
	C	2.2 (4.4%)	0.1 (0.2%)
	AVG	1.7 (3.5%)	0 (0%)
MAY	W	1.6 (3.2%)	-0.2 (-0.3%)
	AN	1.2 (2.5%)	-0.1 (-0.2%)
	BN	1.4 (2.8%)	0 (0%)
	D	1.4 (2.9%)	-0.1 (-0.2%)
	C	2.4 (4.6%)	0.3 (0.6%)
	AVG	1.6 (3.2%)	0 (-0.1%)
JUN	W	0.8 (1.6%)	-0.1 (-0.3%)
	AN	1 (2%)	-0.2 (-0.4%)
	BN	1.2 (2.3%)	-0.1 (-0.1%)
	D	2.1 (4.2%)	0.2 (0.4%)
	C	2.4 (4.7%)	0.3 (0.6%)
	AVG	1.4 (2.8%)	0 (0%)
JUL	W	1.2 (2.4%)	0.3 (0.6%)
	AN	1.7 (3.5%)	0.4 (0.7%)
	BN	1.9 (3.7%)	0.5 (1%)
	D	2.9 (5.7%)	0.6 (1.1%)
	C	5.3 (9.7%)	0.1 (0.2%)
	AVG	2.4 (4.6%)	0.4 (0.7%)

Alternative 2A: Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
AUG	W	2.2 (4.3%)	0.3 (0.5%)
	AN	2.4 (4.5%)	0.5 (0.9%)
	BN	2.9 (5.6%)	0.5 (1%)
	D	3.4 (6.4%)	0.4 (0.6%)
	C	7.9 (14%)	0.4 (0.7%)
	AVG	3.4 (6.5%)	0.4 (0.7%)
SEP	W	1.9 (3.6%)	0.3 (0.5%)
	AN	2.6 (4.8%)	0.3 (0.6%)
	BN	3.5 (6.5%)	0.8 (1.4%)
	D	4.6 (8.3%)	0.1 (0.2%)
	C	6.3 (10.5%)	0.3 (0.5%)
	AVG	3.5 (6.4%)	0.4 (0.6%)
OCT	W	3.3 (6.1%)	0.3 (0.5%)
	AN	3 (5.6%)	0.2 (0.4%)
	BN	3.4 (6.2%)	0.3 (0.5%)
	D	3.9 (7.1%)	0.4 (0.6%)
	C	3.7 (6.5%)	-0.1 (-0.1%)
	AVG	3.5 (6.3%)	0.2 (0.4%)
NOV	W	2.3 (4.5%)	0.1 (0.2%)
	AN	2.3 (4.5%)	0.1 (0.3%)
	BN	2.4 (4.6%)	0 (-0.1%)
	D	2.4 (4.6%)	0.1 (0.2%)
	C	2.4 (4.4%)	-0.1 (-0.2%)
	AVG	2.4 (4.5%)	0.1 (0.1%)
DEC	W	1.2 (2.4%)	-0.1 (-0.2%)
	AN	1.7 (3.4%)	-0.1 (-0.1%)
	BN	1.9 (3.8%)	-0.1 (-0.2%)
	D	1.8 (3.5%)	-0.2 (-0.3%)
	C	1.9 (3.8%)	0 (-0.1%)
	AVG	1.6 (3.2%)	-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.

1 **11D.2.2 Sacramento River at Jelly’s Ferry**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
3 **the Sacramento River at Jelly’s Ferry, Year-Round**

Alternative 2A: Sacramento River at Jelly’s Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	45	46	46
	D	45	47	47
	C	45	47	47
	AVG	45	47	47
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	47
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	49	49
	AN	49	51	51
	BN	49	51	51
	D	50	51	51
	C	50	52	52
	AVG	49	51	51
APR	W	51	53	53
	AN	53	55	55
	BN	53	54	54
	D	52	54	54
	C	52	54	54
	AVG	52	54	54
MAY	W	54	57	57
	AN	55	57	56
	BN	54	57	56
	D	54	56	55
	C	55	57	57
	AVG	54	57	56
JUN	W	55	56	56
	AN	55	56	55
	BN	54	56	56
	D	54	56	56
	C	56	58	58
	AVG	55	56	56
JUL	W	56	57	57
	AN	55	56	56
	BN	55	56	57
	D	55	57	58
	C	57	62	63
	AVG	55	57	58

Alternative 2A: Sacramento River at Jelly's Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
AUG	W	56	59	59
	AN	56	58	59
	BN	56	58	59
	D	56	59	60
	C	59	67	67
	AVG	57	60	60
SEP	W	56	57	58
	AN	57	59	59
	BN	57	60	61
	D	58	63	63
	C	61	67	67
	AVG	58	61	61
OCT	W	54	57	57
	AN	54	57	57
	BN	55	57	58
	D	55	58	59
	C	56	60	60
	AVG	55	58	58
NOV	W	51	53	53
	AN	51	53	53
	BN	51	54	53
	D	51	54	54
	C	52	55	54
	AVG	51	53	53
DEC	W	47	48	48
	AN	47	48	48
	BN	47	49	49
	D	47	49	49
	C	47	49	49
	AVG	47	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Jelly’s Ferry, Year-Round**

Alternative 2A: Sacramento River at Jelly’s Ferry			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
JAN	W	1.4 (3.1%)	0 (0%)
	AN	1.5 (3.3%)	0 (0%)
	BN	1.7 (3.8%)	0 (0%)
	D	1.7 (3.9%)	-0.1 (-0.2%)
	C	2 (4.6%)	-0.1 (-0.2%)
	AVG	1.6 (3.6%)	0 (-0.1%)
FEB	W	1.5 (3.4%)	0 (0%)
	AN	1.6 (3.4%)	0 (0%)
	BN	1.6 (3.6%)	0 (-0.1%)
	D	1.8 (3.9%)	0 (-0.1%)
	C	1.9 (4.1%)	0 (-0.1%)
	AVG	1.7 (3.6%)	0 (0%)
MAR	W	1.4 (3%)	0 (0%)
	AN	1.6 (3.2%)	0 (0%)
	BN	1.7 (3.6%)	0.1 (0.1%)
	D	1.6 (3.2%)	-0.1 (-0.1%)
	C	1.6 (3.2%)	-0.2 (-0.4%)
	AVG	1.6 (3.2%)	0 (-0.1%)
APR	W	1.8 (3.5%)	0 (0%)
	AN	1.8 (3.4%)	-0.1 (-0.2%)
	BN	1.7 (3.2%)	-0.1 (-0.1%)
	D	1.7 (3.2%)	-0.2 (-0.3%)
	C	2.1 (4%)	0 (0.1%)
	AVG	1.8 (3.4%)	-0.1 (-0.1%)
MAY	W	2.5 (4.7%)	-0.4 (-0.7%)
	AN	1.1 (2.1%)	-0.5 (-1%)
	BN	1.8 (3.3%)	-0.3 (-0.6%)
	D	1.3 (2.4%)	-0.5 (-0.9%)
	C	2.1 (3.8%)	0.2 (0.3%)
	AVG	1.9 (3.4%)	-0.3 (-0.6%)
JUN	W	0.8 (1.5%)	-0.6 (-1%)
	AN	0.6 (1.1%)	-0.8 (-1.4%)
	BN	1.3 (2.4%)	-0.3 (-0.5%)
	D	1.9 (3.5%)	0 (0%)
	C	2.2 (4%)	0.2 (0.4%)
	AVG	1.3 (2.4%)	-0.3 (-0.6%)
JUL	W	1.2 (2.2%)	0.2 (0.4%)
	AN	1.8 (3.3%)	0.4 (0.7%)
	BN	2.2 (4%)	0.5 (0.9%)
	D	3.1 (5.6%)	0.7 (1.2%)
	C	5.2 (9.1%)	0.2 (0.3%)
	AVG	2.5 (4.5%)	0.4 (0.7%)

Alternative 2A: Sacramento River at Jelly's Ferry			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	2.8 (5%)	0.3 (0.5%)
	AN	2.6 (4.5%)	0.6 (1.1%)
	BN	3.2 (5.8%)	0.6 (1%)
	D	3.9 (6.9%)	0.8 (1.4%)
	C	7.5 (12.7%)	0.4 (0.6%)
	AVG	3.8 (6.7%)	0.5 (0.9%)
SEP	W	1.4 (2.6%)	0.2 (0.3%)
	AN	1.7 (3%)	0.4 (0.7%)
	BN	3.9 (6.8%)	1 (1.7%)
	D	4.9 (8.4%)	0 (0%)
	C	5.6 (9%)	0.2 (0.4%)
	AVG	3.3 (5.7%)	0.3 (0.5%)
OCT	W	3 (5.6%)	0.2 (0.3%)
	AN	2.8 (5.1%)	0.2 (0.3%)
	BN	3.2 (5.9%)	0.3 (0.6%)
	D	3.4 (6.1%)	0.2 (0.4%)
	C	3.3 (5.9%)	-0.1 (-0.1%)
	AVG	3.1 (5.7%)	0.2 (0.3%)
NOV	W	2.2 (4.3%)	-0.1 (-0.2%)
	AN	2.1 (4.2%)	-0.1 (-0.1%)
	BN	2.3 (4.5%)	-0.2 (-0.4%)
	D	2.2 (4.3%)	-0.1 (-0.1%)
	C	2.3 (4.3%)	-0.1 (-0.2%)
	AVG	2.2 (4.3%)	-0.1 (-0.2%)
DEC	W	1.1 (2.3%)	-0.1 (-0.1%)
	AN	1.7 (3.7%)	-0.1 (-0.1%)
	BN	2 (4.3%)	0.1 (0.2%)
	D	1.9 (4%)	0 (-0.1%)
	C	2.1 (4.5%)	0.2 (0.3%)
	AVG	1.7 (3.6%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.2.3 Sacramento River at Bend Bridge**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
3 **the Sacramento River at Bend Bridge, Year-Round**

Alternative 2A: Sacramento River at Bend Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	45	46	46
	D	45	47	46
	C	45	47	47
	AVG	45	47	47
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	47
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	50	50
	AN	49	51	51
	BN	49	51	51
	D	50	52	52
	C	50	52	52
	AVG	49	51	51
APR	W	51	53	53
	AN	53	55	55
	BN	53	55	55
	D	53	55	55
	C	52	54	55
	AVG	52	54	54
MAY	W	54	57	57
	AN	55	57	56
	BN	55	57	57
	D	55	56	56
	C	55	57	58
	AVG	55	57	57
JUN	W	56	57	56
	AN	55	57	56
	BN	55	57	56
	D	55	57	57
	C	57	59	59
	AVG	55	57	57
JUL	W	56	57	58
	AN	55	57	57
	BN	55	57	58
	D	56	58	59
	C	58	63	63
	AVG	56	58	59

Alternative 2A: Sacramento River at Bend Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
AUG	W	57	59	60
	AN	57	59	60
	BN	56	59	60
	D	57	60	61
	C	60	67	67
	AVG	57	60	61
SEP	W	57	58	58
	AN	58	59	60
	BN	58	60	62
	D	58	63	63
	C	62	67	67
	AVG	58	61	61
OCT	W	54	57	57
	AN	55	57	57
	BN	55	58	58
	D	55	58	59
	C	56	60	60
	AVG	55	58	58
NOV	W	51	53	53
	AN	51	53	53
	BN	51	53	53
	D	51	54	53
	C	52	54	54
	AVG	51	53	53
DEC	W	47	48	48
	AN	46	48	48
	BN	47	49	49
	D	46	48	48
	C	47	49	49
	AVG	47	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Bend Bridge, Year-Round**

Alternative 2A: Sacramento River at Bend Bridge			
Month	WYT	EXISTING CONDITIONS	
		vs. A2A_LL1	NAA vs. A2A_LL1
JAN	W	1.4 (3.2%)	0 (0%)
	AN	1.5 (3.4%)	0 (0%)
	BN	1.7 (3.9%)	0 (0%)
	D	1.8 (4%)	-0.1 (-0.2%)
	C	2.1 (4.7%)	-0.1 (-0.2%)
	AVG	1.7 (3.7%)	0 (-0.1%)
FEB	W	1.6 (3.4%)	0 (0%)
	AN	1.6 (3.5%)	0 (0%)
	BN	1.7 (3.6%)	0 (-0.1%)
	D	1.9 (4%)	0 (-0.1%)
	C	2 (4.2%)	0 (-0.1%)
	AVG	1.7 (3.7%)	0 (0%)
MAR	W	1.5 (3%)	0 (0%)
	AN	1.6 (3.2%)	0 (0%)
	BN	1.8 (3.6%)	0.1 (0.1%)
	D	1.6 (3.2%)	-0.1 (-0.1%)
	C	1.6 (3.3%)	-0.2 (-0.4%)
	AVG	1.6 (3.2%)	0 (-0.1%)
APR	W	1.8 (3.5%)	0 (0%)
	AN	1.8 (3.5%)	-0.1 (-0.2%)
	BN	1.7 (3.2%)	-0.1 (-0.2%)
	D	1.7 (3.2%)	-0.2 (-0.3%)
	C	2.1 (4%)	0 (0.1%)
	AVG	1.8 (3.4%)	-0.1 (-0.1%)
MAY	W	2.6 (4.7%)	-0.4 (-0.7%)
	AN	1.2 (2.1%)	-0.6 (-1%)
	BN	1.8 (3.3%)	-0.4 (-0.6%)
	D	1.3 (2.4%)	-0.5 (-0.9%)
	C	2.1 (3.8%)	0.2 (0.3%)
	AVG	1.9 (3.5%)	-0.4 (-0.6%)
JUN	W	0.8 (1.5%)	-0.6 (-1.1%)
	AN	0.6 (1.1%)	-0.8 (-1.4%)
	BN	1.4 (2.5%)	-0.3 (-0.5%)
	D	1.9 (3.5%)	0 (-0.1%)
	C	2.2 (4%)	0.2 (0.4%)
	AVG	1.3 (2.4%)	-0.3 (-0.6%)
JUL	W	1.2 (2.2%)	0.2 (0.4%)
	AN	1.8 (3.3%)	0.4 (0.7%)
	BN	2.2 (4%)	0.5 (0.9%)
	D	3.1 (5.6%)	0.7 (1.2%)
	C	5.2 (9%)	0.2 (0.4%)
	AVG	2.5 (4.4%)	0.4 (0.7%)

Alternative 2A: Sacramento River at Bend Bridge			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	2.9 (5.1%)	0.3 (0.5%)
	AN	2.6 (4.6%)	0.6 (1.1%)
	BN	3.3 (5.8%)	0.6 (1%)
	D	4 (7%)	0.9 (1.5%)
	C	7.5 (12.5%)	0.4 (0.6%)
	AVG	3.8 (6.7%)	0.5 (0.9%)
SEP	W	1.4 (2.5%)	0.2 (0.3%)
	AN	1.7 (2.9%)	0.4 (0.8%)
	BN	3.9 (6.8%)	1 (1.7%)
	D	4.9 (8.4%)	0 (0%)
	C	5.5 (8.9%)	0.2 (0.3%)
	AVG	3.2 (5.6%)	0.3 (0.5%)
OCT	W	3 (5.5%)	0.2 (0.3%)
	AN	2.8 (5.1%)	0.2 (0.3%)
	BN	3.2 (5.9%)	0.3 (0.5%)
	D	3.3 (6.1%)	0.2 (0.4%)
	C	3.3 (5.9%)	-0.1 (-0.1%)
	AVG	3.1 (5.7%)	0.2 (0.3%)
NOV	W	2.2 (4.3%)	-0.1 (-0.3%)
	AN	2.2 (4.3%)	-0.1 (-0.2%)
	BN	2.3 (4.6%)	-0.2 (-0.4%)
	D	2.2 (4.3%)	-0.1 (-0.1%)
	C	2.3 (4.4%)	-0.1 (-0.2%)
	AVG	2.2 (4.4%)	-0.1 (-0.2%)
DEC	W	1.1 (2.4%)	-0.1 (-0.1%)
	AN	1.8 (3.8%)	-0.1 (-0.1%)
	BN	2.1 (4.4%)	0.1 (0.2%)
	D	1.9 (4.1%)	0 (-0.1%)
	C	2.2 (4.6%)	0.2 (0.4%)
	AVG	1.7 (3.7%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.2.4 Sacramento River at Red Bluff Diversion Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
3 **the Sacramento River at Red Bluff Diversion Dam, Year-Round**

Alternative 2A: Sacramento River at Red Bluff Diversion Dam				
Month	WTY	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	45	46	46
	AN	45	47	47
	BN	44	46	46
	D	44	46	46
	C	44	47	47
	AVG	45	46	46
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	50	50
	AN	49	51	51
	BN	49	51	51
	D	50	52	52
	C	51	53	52
	AVG	49	51	51
APR	W	52	54	54
	AN	53	55	55
	BN	54	55	55
	D	54	55	55
	C	53	55	55
	AVG	53	55	55
MAY	W	55	58	58
	AN	56	58	58
	BN	56	58	58
	D	56	58	57
	C	57	59	59
	AVG	56	58	58
JUN	W	57	59	58
	AN	57	58	57
	BN	57	58	58
	D	57	59	59
	C	58	60	60
	AVG	57	59	58
JUL	W	58	59	59
	AN	57	59	59
	BN	57	59	60
	D	57	60	61
	C	60	64	65
	AVG	58	60	60

Alternative 2A: Sacramento River at Red Bluff Diversion Dam				
Month	WTY	EXISTING CONDITIONS	NAA	A2A_LL
AUG	W	58	61	61
	AN	59	61	61
	BN	58	61	61
	D	59	62	63
	C	61	68	69
	AVG	59	62	63
SEP	W	58	59	59
	AN	59	60	61
	BN	59	62	63
	D	59	64	64
	C	63	68	68
	AVG	59	62	62
OCT	W	55	57	58
	AN	55	57	58
	BN	55	58	58
	D	55	59	59
	C	56	60	60
	AVG	55	58	58
NOV	W	50	53	53
	AN	50	53	53
	BN	51	53	53
	D	51	53	53
	C	52	54	54
	AVG	51	53	53
DEC	W	46	48	48
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	46	48	48
	AVG	46	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Red Bluff Diversion Dam, Year-Round**

Alternative 2A: Sacramento River at Red Bluff Diversion Dam			
Month	WYT	EXISTING CONDITIONS	
		vs. A2A_LL1	NAA vs. A2A_LL1
JAN	W	1.5 (3.3%)	0 (0%)
	AN	1.6 (3.5%)	0 (0%)
	BN	1.8 (4%)	0 (0%)
	D	1.9 (4.2%)	-0.1 (-0.2%)
	C	2.2 (5%)	-0.1 (-0.2%)
	AVG	1.7 (3.9%)	0 (-0.1%)
FEB	W	1.6 (3.5%)	0 (0%)
	AN	1.7 (3.6%)	0 (0%)
	BN	1.7 (3.8%)	0 (-0.1%)
	D	1.9 (4.1%)	0 (-0.1%)
	C	2.1 (4.4%)	0 (0%)
	AVG	1.8 (3.8%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0%)
	AN	1.6 (3.2%)	0 (0%)
	BN	1.8 (3.7%)	0.1 (0.1%)
	D	1.7 (3.3%)	-0.1 (-0.2%)
	C	1.7 (3.3%)	-0.2 (-0.4%)
	AVG	1.6 (3.3%)	0 (-0.1%)
APR	W	1.8 (3.5%)	0 (0%)
	AN	1.9 (3.5%)	-0.1 (-0.2%)
	BN	1.8 (3.3%)	-0.1 (-0.2%)
	D	1.8 (3.3%)	-0.2 (-0.3%)
	C	2.1 (3.9%)	0 (0.1%)
	AVG	1.8 (3.5%)	-0.1 (-0.1%)
MAY	W	2.7 (4.8%)	-0.4 (-0.7%)
	AN	1.2 (2.1%)	-0.6 (-1%)
	BN	1.9 (3.4%)	-0.4 (-0.7%)
	D	1.3 (2.4%)	-0.6 (-1%)
	C	2.1 (3.7%)	0.1 (0.2%)
	AVG	1.9 (3.5%)	-0.4 (-0.7%)
JUN	W	1 (1.7%)	-0.7 (-1.1%)
	AN	0.7 (1.2%)	-0.9 (-1.5%)
	BN	1.4 (2.6%)	-0.3 (-0.6%)
	D	2 (3.4%)	-0.1 (-0.2%)
	C	2.2 (3.8%)	0.2 (0.3%)
	AVG	1.4 (2.5%)	-0.4 (-0.7%)
JUL	W	1.3 (2.3%)	0.2 (0.3%)
	AN	1.9 (3.3%)	0.4 (0.6%)
	BN	2.3 (4.1%)	0.5 (0.8%)
	D	3.2 (5.5%)	0.7 (1.2%)
	C	5.1 (8.6%)	0.3 (0.4%)
	AVG	2.5 (4.4%)	0.4 (0.7%)

Alternative 2A: Sacramento River at Red Bluff Diversion Dam			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	3.1 (5.3%)	0.3 (0.5%)
	AN	2.7 (4.6%)	0.7 (1.1%)
	BN	3.4 (5.8%)	0.6 (0.9%)
	D	4.1 (7%)	1 (1.6%)
	C	7.3 (12%)	0.4 (0.5%)
	AVG	3.9 (6.6%)	0.6 (0.9%)
SEP	W	1.4 (2.3%)	0.2 (0.3%)
	AN	1.6 (2.7%)	0.5 (0.8%)
	BN	4.1 (6.9%)	1 (1.7%)
	D	5 (8.4%)	0 (-0.1%)
	C	5.4 (8.7%)	0.2 (0.3%)
	AVG	3.2 (5.5%)	0.3 (0.5%)
OCT	W	3 (5.4%)	0.2 (0.3%)
	AN	2.8 (5%)	0.2 (0.3%)
	BN	3.2 (5.9%)	0.3 (0.5%)
	D	3.3 (5.9%)	0.2 (0.3%)
	C	3.3 (5.8%)	-0.1 (-0.1%)
	AVG	3.1 (5.6%)	0.2 (0.3%)
NOV	W	2.2 (4.4%)	-0.1 (-0.3%)
	AN	2.2 (4.4%)	-0.1 (-0.2%)
	BN	2.4 (4.7%)	-0.2 (-0.4%)
	D	2.3 (4.4%)	-0.1 (-0.1%)
	C	2.4 (4.5%)	-0.1 (-0.2%)
	AVG	2.3 (4.5%)	-0.1 (-0.2%)
DEC	W	1.2 (2.6%)	-0.1 (-0.1%)
	AN	1.8 (4%)	-0.1 (-0.1%)
	BN	2.1 (4.6%)	0.1 (0.2%)
	D	2 (4.3%)	0 (0%)
	C	2.2 (4.9%)	0.2 (0.4%)
	AVG	1.8 (3.8%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.2.5 Sacramento River at Hamilton City**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
3 **the Sacramento River at Hamilton City, Year-Round**

Alternative 2A: Sacramento River at Hamilton City				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	44	46	46
	D	44	46	46
	C	44	47	47
	AVG	45	47	47
FEB	W	46	48	48
	AN	47	48	48
	BN	46	48	48
	D	47	49	49
	C	48	50	50
	AVG	47	49	49
MAR	W	49	51	51
	AN	51	52	52
	BN	51	53	53
	D	52	54	53
	C	52	54	54
	AVG	51	52	52
APR	W	54	55	55
	AN	55	57	57
	BN	56	58	58
	D	56	58	58
	C	56	58	58
	AVG	55	57	57
MAY	W	58	62	61
	AN	60	62	61
	BN	59	62	61
	D	59	61	60
	C	60	62	62
	AVG	59	62	61
JUN	W	61	63	62
	AN	61	62	61
	BN	60	62	62
	D	60	63	62
	C	61	63	63
	AVG	61	63	62
JUL	W	62	63	63
	AN	61	63	63
	BN	61	63	64
	D	61	64	64
	C	63	68	68
	AVG	62	64	64

Alternative 2A: Sacramento River at Hamilton City				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
AUG	W	62	65	65
	AN	62	64	65
	BN	62	65	65
	D	62	65	67
	C	65	71	72
	AVG	62	66	67
SEP	W	60	61	61
	AN	62	63	63
	BN	62	65	66
	D	62	67	67
	C	64	69	69
	AVG	62	65	65
OCT	W	55	58	58
	AN	56	58	58
	BN	56	59	59
	D	56	59	59
	C	57	60	60
	AVG	56	59	59
NOV	W	50	53	52
	AN	50	53	53
	BN	50	53	53
	D	51	53	53
	C	52	54	54
	AVG	51	53	53
DEC	W	46	47	47
	AN	46	48	48
	BN	45	48	48
	D	45	48	48
	C	45	48	48
	AVG	46	47	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Hamilton City, Year-Round**

Alternative 2A: Sacramento River at Hamilton City			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLТ	NAA vs. A2A_LLТ
JAN	W	1.6 (3.6%)	0 (0%)
	AN	1.7 (3.9%)	0 (0%)
	BN	1.9 (4.4%)	0 (0%)
	D	2.1 (4.7%)	-0.1 (-0.1%)
	C	2.4 (5.4%)	-0.1 (-0.2%)
	AVG	1.9 (4.3%)	0 (-0.1%)
FEB	W	1.7 (3.6%)	0 (0%)
	AN	1.7 (3.7%)	0 (0%)
	BN	1.8 (4%)	0 (-0.1%)
	D	2.1 (4.4%)	0 (-0.1%)
	C	2.3 (4.7%)	0 (0%)
	AVG	1.9 (4%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0%)
	AN	1.7 (3.3%)	0 (0%)
	BN	1.9 (3.8%)	0 (0.1%)
	D	1.7 (3.4%)	-0.1 (-0.2%)
	C	1.7 (3.3%)	-0.2 (-0.3%)
	AVG	1.7 (3.3%)	0 (-0.1%)
APR	W	1.9 (3.5%)	0 (0%)
	AN	2 (3.6%)	-0.1 (-0.2%)
	BN	1.9 (3.3%)	-0.2 (-0.3%)
	D	1.9 (3.4%)	-0.2 (-0.3%)
	C	2.1 (3.8%)	0 (0%)
	AVG	1.9 (3.5%)	-0.1 (-0.1%)
MAY	W	2.9 (4.9%)	-0.4 (-0.6%)
	AN	1.3 (2.2%)	-0.7 (-1.1%)
	BN	2 (3.3%)	-0.5 (-0.9%)
	D	1.4 (2.3%)	-0.7 (-1.1%)
	C	2.1 (3.4%)	0 (0.1%)
	AVG	2 (3.5%)	-0.5 (-0.7%)
JUN	W	1.1 (1.8%)	-0.8 (-1.3%)
	AN	0.7 (1.1%)	-1 (-1.7%)
	BN	1.6 (2.6%)	-0.4 (-0.7%)
	D	2 (3.2%)	-0.2 (-0.3%)
	C	2.2 (3.6%)	0.1 (0.2%)
	AVG	1.5 (2.4%)	-0.5 (-0.8%)
JUL	W	1.5 (2.4%)	0.2 (0.3%)
	AN	2 (3.3%)	0.4 (0.6%)
	BN	2.5 (4.2%)	0.5 (0.8%)
	D	3.3 (5.4%)	0.8 (1.3%)
	C	5.1 (8.2%)	0.3 (0.5%)
	AVG	2.7 (4.3%)	0.4 (0.7%)

Alternative 2A: Sacramento River at Hamilton City			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	3.5 (5.7%)	0.3 (0.4%)
	AN	2.9 (4.6%)	0.7 (1.1%)
	BN	3.6 (5.8%)	0.6 (0.9%)
	D	4.4 (7.1%)	1.2 (1.9%)
	C	7 (10.8%)	0.4 (0.5%)
	AVG	4.1 (6.6%)	0.6 (0.9%)
SEP	W	1.2 (2%)	0.1 (0.2%)
	AN	1.3 (2.1%)	0.5 (0.8%)
	BN	4.2 (6.8%)	1 (1.6%)
	D	5 (8.1%)	-0.1 (-0.2%)
	C	5 (7.8%)	0 (0%)
	AVG	3.1 (5%)	0.3 (0.4%)
OCT	W	2.9 (5.2%)	0.1 (0.2%)
	AN	2.7 (4.9%)	0.1 (0.1%)
	BN	3.2 (5.7%)	0.3 (0.5%)
	D	3.1 (5.4%)	0.1 (0.2%)
	C	3.2 (5.6%)	-0.1 (-0.1%)
	AVG	3 (5.3%)	0.1 (0.2%)
NOV	W	2.3 (4.6%)	-0.1 (-0.2%)
	AN	2.4 (4.7%)	-0.1 (-0.1%)
	BN	2.5 (4.9%)	-0.2 (-0.3%)
	D	2.4 (4.6%)	-0.1 (-0.1%)
	C	2.5 (4.9%)	-0.1 (-0.2%)
	AVG	2.4 (4.7%)	-0.1 (-0.2%)
DEC	W	1.4 (3%)	-0.1 (-0.1%)
	AN	2 (4.4%)	0 (-0.1%)
	BN	2.3 (5%)	0.1 (0.3%)
	D	2.2 (4.7%)	0 (0%)
	C	2.4 (5.3%)	0.2 (0.4%)
	AVG	1.9 (4.3%)	0 (0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.2.6 Trinity River below Lewiston Reservoir**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
3 **the Trinity River below Lewiston Reservoir, Year-Round**

Alternative 2A: Trinity River below Lewiston Reservoir				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	41	43	43
	AN	38	41	41
	BN	39	41	41
	D	39	41	42
	C	39	42	42
	AVG	39	42	42
FEB	W	43	45	45
	AN	43	45	45
	BN	42	44	44
	D	42	45	45
	C	43	45	46
	AVG	43	45	45
MAR	W	46	48	48
	AN	47	49	49
	BN	47	48	49
	D	48	50	50
	C	48	50	50
	AVG	47	49	49
APR	W	49	51	51
	AN	50	52	52
	BN	51	53	53
	D	51	53	53
	C	50	52	52
	AVG	50	52	52
MAY	W	46	48	48
	AN	46	48	48
	BN	46	49	49
	D	47	49	49
	C	49	52	52
	AVG	47	49	49
JUN	W	48	51	50
	AN	51	52	52
	BN	52	53	53
	D	52	54	54
	C	56	59	59
	AVG	51	53	53
JUL	W	51	55	53
	AN	52	54	53
	BN	52	55	54
	D	51	54	53
	C	53	60	61
	AVG	51	55	54

Alternative 2A: Trinity River below Lewiston Reservoir				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL
AUG	W	52	54	54
	AN	51	53	53
	BN	52	55	55
	D	50	54	55
	C	54	63	64
	AVG	52	56	56
SEP	W	49	51	51
	AN	50	51	52
	BN	51	55	55
	D	50	56	57
	C	57	62	63
	AVG	51	54	55
OCT	W	48	51	51
	AN	49	52	52
	BN	50	53	53
	D	50	52	52
	C	51	56	55
	AVG	49	52	52
NOV	W	44	47	47
	AN	45	47	47
	BN	45	47	48
	D	44	47	47
	C	46	48	48
	AVG	45	47	47
DEC	W	41	43	43
	AN	39	43	43
	BN	40	42	42
	D	40	42	42
	C	39	41	41
	AVG	40	42	42

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River below Lewiston Reservoir, Year-Round**

Alternative 2A: Trinity River below Lewiston Reservoir			
Month	WYT	EXISTING CONDITIONS	NAA vs. A2A_LL
		vs. A2A_LL	T
JAN	W	1.9 (4.7%)	-0.1 (-0.3%)
	AN	2.3 (6.1%)	-0.1 (-0.2%)
	BN	1.7 (4.5%)	-0.3 (-0.8%)
	D	2.9 (7.4%)	0.2 (0.4%)
	C	2.5 (6.2%)	0.1 (0.3%)
	AVG	2.2 (5.7%)	0 (-0.1%)
FEB	W	2.3 (5.5%)	0 (-0.1%)
	AN	2.2 (5.2%)	0 (-0.1%)
	BN	2.2 (5.1%)	0 (0%)
	D	2.3 (5.4%)	0 (0.1%)
	C	2.4 (5.5%)	0.2 (0.4%)
	AVG	2.3 (5.4%)	0 (0%)
MAR	W	2 (4.3%)	0 (0%)
	AN	1.7 (3.6%)	0 (0%)
	BN	2.1 (4.5%)	0.3 (0.6%)
	D	1.5 (3%)	0 (-0.1%)
	C	2.1 (4.4%)	0 (0%)
	AVG	1.9 (3.9%)	0 (0.1%)
APR	W	1.8 (3.7%)	0.3 (0.7%)
	AN	2.3 (4.7%)	0.4 (0.7%)
	BN	2.5 (4.9%)	0 (-0.1%)
	D	2.3 (4.6%)	0.1 (0.1%)
	C	2.2 (4.3%)	0 (0.1%)
	AVG	2.2 (4.3%)	0.2 (0.3%)
MAY	W	2.5 (5.4%)	0 (0.1%)
	AN	2.3 (5%)	0 (0%)
	BN	2.2 (4.8%)	0 (0%)
	D	2.5 (5.4%)	0 (-0.1%)
	C	3.2 (6.6%)	0.1 (0.1%)
	AVG	2.5 (5.4%)	0 (0%)
JUN	W	2.1 (4.3%)	-0.2 (-0.3%)
	AN	1.1 (2.2%)	0 (0%)
	BN	1.8 (3.4%)	-0.1 (-0.1%)
	D	2.3 (4.3%)	0 (0%)
	C	3 (5.4%)	-0.7 (-1.2%)
	AVG	2.1 (4%)	-0.2 (-0.3%)
JUL	W	2.4 (4.7%)	-1.4 (-2.6%)
	AN	1 (1.9%)	-1.1 (-2%)
	BN	2.4 (4.7%)	-0.8 (-1.4%)
	D	2.5 (5%)	-0.1 (-0.2%)
	C	8.1 (15.4%)	1.3 (2.1%)
	AVG	3.1 (6%)	-0.6 (-1%)

Alternative 2A: Trinity River below Lewiston Reservoir			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	1.6 (3%)	-0.5 (-0.9%)
	AN	2.2 (4.2%)	-0.1 (-0.1%)
	BN	3 (5.8%)	0.1 (0.1%)
	D	5.3 (10.6%)	1.3 (2.3%)
	C	10.1 (18.7%)	0.7 (1.1%)
	AVG	4 (7.7%)	0.2 (0.4%)
SEP	W	2.1 (4.2%)	0.1 (0.3%)
	AN	2.1 (4.2%)	0.3 (0.7%)
	BN	3.8 (7.5%)	0.3 (0.6%)
	D	6.4 (12.9%)	0.6 (1.1%)
	C	6 (10.6%)	0.3 (0.5%)
	AVG	3.9 (7.7%)	0.3 (0.6%)
OCT	W	2.9 (6.1%)	-0.3 (-0.6%)
	AN	2.5 (5.1%)	0.2 (0.3%)
	BN	3.1 (6.2%)	0.2 (0.4%)
	D	2.8 (5.6%)	0.6 (1.1%)
	C	4 (7.7%)	-0.5 (-0.8%)
	AVG	3 (6.1%)	0 (0%)
NOV	W	2.7 (6%)	0.1 (0.1%)
	AN	2.4 (5.3%)	0.1 (0.3%)
	BN	2.9 (6.6%)	0.4 (0.8%)
	D	2.8 (6.3%)	0.1 (0.1%)
	C	2 (4.4%)	0 (-0.1%)
	AVG	2.6 (5.8%)	0.1 (0.2%)
DEC	W	1.9 (4.6%)	-0.2 (-0.4%)
	AN	3.4 (8.7%)	-0.2 (-0.4%)
	BN	2.5 (6.4%)	0 (0.1%)
	D	1.9 (4.8%)	0.1 (0.2%)
	C	1.7 (4.4%)	0 (-0.1%)
	AVG	2.2 (5.4%)	-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.

1 **11D.2.7 Trinity River at Douglas City**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
3 **the Trinity River at Douglas City, Year-Round**

Alternative 2A: Trinity River at Douglas City				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	40	42	42
	AN	39	40	40
	BN	38	40	40
	D	38	40	40
	C	39	41	41
	AVG	39	41	41
FEB	W	43	45	45
	AN	43	45	45
	BN	42	44	44
	D	43	44	44
	C	43	45	45
	AVG	43	45	45
MAR	W	46	47	47
	AN	47	48	48
	BN	47	48	48
	D	48	49	49
	C	48	49	49
	AVG	47	48	48
APR	W	51	52	52
	AN	52	53	53
	BN	52	54	54
	D	53	54	54
	C	52	54	54
	AVG	52	53	53
MAY	W	48	50	50
	AN	48	50	50
	BN	49	51	51
	D	49	51	51
	C	52	55	55
	AVG	49	51	51
JUN	W	51	54	53
	AN	54	55	55
	BN	55	57	57
	D	57	59	59
	C	60	63	63
	AVG	55	57	57
JUL	W	57	61	60
	AN	58	60	59
	BN	59	62	61
	D	59	62	62
	C	62	67	67
	AVG	59	62	62

Alternative 2A: Trinity River at Douglas City				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
AUG	W	60	62	62
	AN	59	61	61
	BN	60	63	63
	D	58	62	63
	C	61	67	68
	AVG	60	63	63
SEP	W	55	57	57
	AN	55	57	57
	BN	56	59	60
	D	55	60	60
	C	59	64	65
	AVG	56	59	59
OCT	W	50	53	53
	AN	51	53	53
	BN	52	54	54
	D	51	53	53
	C	53	56	55
	AVG	51	54	54
NOV	W	44	46	46
	AN	45	47	47
	BN	45	47	47
	D	44	46	46
	C	46	47	47
	AVG	44	47	47
DEC	W	41	43	43
	AN	40	42	42
	BN	39	42	42
	D	40	42	42
	C	39	41	41
	AVG	40	42	42

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River at Douglas City, Year-Round**

Alternative 2A: Trinity River at Douglas City			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLТ	NAA vs. A2A_LLТ
JAN	W	1.5 (3.6%)	-0.1 (-0.3%)
	AN	1.6 (4.1%)	0 (-0.1%)
	BN	1.3 (3.5%)	-0.2 (-0.4%)
	D	2.2 (5.9%)	0.1 (0.2%)
	C	2.2 (5.6%)	0.1 (0.3%)
	AVG	1.7 (4.4%)	0 (-0.1%)
FEB	W	1.6 (3.6%)	0 (-0.1%)
	AN	1.5 (3.5%)	0 (0%)
	BN	1.6 (3.8%)	0 (0%)
	D	1.6 (3.7%)	0 (0%)
	C	1.8 (4.1%)	-0.1 (-0.1%)
	AVG	1.6 (3.7%)	0 (0%)
MAR	W	1.2 (2.6%)	0 (0%)
	AN	1 (2.1%)	0 (0%)
	BN	1.2 (2.6%)	0.1 (0.1%)
	D	1 (2.2%)	0 (0%)
	C	1.5 (3.2%)	0 (0%)
	AVG	1.2 (2.5%)	0 (0%)
APR	W	1.4 (2.7%)	0.1 (0.2%)
	AN	1.5 (3%)	0.2 (0.3%)
	BN	1.7 (3.2%)	0 (0%)
	D	1.7 (3.3%)	0 (0.1%)
	C	1.8 (3.5%)	0 (0%)
	AVG	1.6 (3.1%)	0.1 (0.1%)
MAY	W	2.4 (4.9%)	0 (0.1%)
	AN	2.2 (4.7%)	0 (0%)
	BN	2.1 (4.4%)	0 (0%)
	D	2.5 (5%)	0 (0%)
	C	3.1 (5.9%)	0.1 (0.1%)
	AVG	2.4 (5%)	0 (0%)
JUN	W	2 (3.9%)	-0.1 (-0.3%)
	AN	1 (1.8%)	0 (0%)
	BN	1.8 (3.2%)	0 (0%)
	D	2.4 (4.1%)	0 (0%)
	C	2.7 (4.6%)	-0.4 (-0.6%)
	AVG	2 (3.7%)	-0.1 (-0.2%)
JUL	W	2.8 (4.9%)	-0.9 (-1.5%)
	AN	1.5 (2.6%)	-0.7 (-1.2%)
	BN	2.2 (3.7%)	-0.5 (-0.8%)
	D	2.7 (4.5%)	0 (0%)
	C	5.5 (9%)	0.9 (1.4%)
	AVG	2.9 (5%)	-0.3 (-0.6%)

Alternative 2A: Trinity River at Douglas City			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL	NAA vs. A2A_LL
AUG	W	2.3 (3.8%)	-0.3 (-0.4%)
	AN	2.6 (4.4%)	0 (-0.1%)
	BN	3.1 (5.1%)	0 (0.1%)
	D	4.4 (7.5%)	0.7 (1.1%)
	C	7.3 (12%)	1.1 (1.6%)
	AVG	3.7 (6.2%)	0.2 (0.4%)
SEP	W	2.5 (4.6%)	0.1 (0.1%)
	AN	2.5 (4.6%)	0.2 (0.4%)
	BN	3.6 (6.3%)	0.2 (0.3%)
	D	5 (9.2%)	0.4 (0.6%)
	C	6 (10.3%)	0.8 (1.2%)
	AVG	3.8 (6.8%)	0.3 (0.5%)
OCT	W	2.4 (4.7%)	-0.2 (-0.3%)
	AN	2.1 (4%)	0.2 (0.3%)
	BN	2.5 (4.8%)	0.1 (0.2%)
	D	2.3 (4.4%)	0.3 (0.6%)
	C	2.8 (5.3%)	-0.3 (-0.5%)
	AVG	2.4 (4.7%)	0 (0%)
NOV	W	2.1 (4.8%)	0 (0%)
	AN	2 (4.6%)	0.1 (0.1%)
	BN	2.4 (5.4%)	0.2 (0.4%)
	D	2.2 (5.1%)	0 (0.1%)
	C	1.8 (4%)	0 (-0.1%)
	AVG	2.1 (4.8%)	0.1 (0.1%)
DEC	W	1.4 (3.4%)	0 (-0.1%)
	AN	2.3 (5.7%)	-0.1 (-0.3%)
	BN	2.1 (5.4%)	0 (0%)
	D	1.8 (4.5%)	0 (0.1%)
	C	2.1 (5.6%)	-0.1 (-0.2%)
	AVG	1.8 (4.6%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.2.8 Trinity River below North Fork**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
3 **the Trinity River below North Fork, Year-Round**

Alternative 2A: Trinity River below North Fork				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	40	41	41
	AN	38	39	39
	BN	38	39	39
	D	38	39	39
	C	38	40	40
	AVG	39	40	40
FEB	W	43	44	44
	AN	43	44	44
	BN	43	44	44
	D	43	44	44
	C	43	45	45
	AVG	43	44	44
MAR	W	46	47	47
	AN	46	47	47
	BN	46	47	47
	D	47	48	48
	C	48	49	49
	AVG	47	47	47
APR	W	53	53	53
	AN	54	54	55
	BN	54	55	55
	D	54	55	55
	C	54	55	55
	AVG	53	54	54
MAY	W	50	52	52
	AN	50	52	52
	BN	51	53	53
	D	51	54	54
	C	54	57	57
	AVG	51	53	53
JUN	W	55	57	57
	AN	58	58	58
	BN	60	61	61
	D	62	64	64
	C	63	66	66
	AVG	59	61	61
JUL	W	63	66	66
	AN	63	66	65
	BN	65	67	67
	D	65	68	68
	C	68	71	72
	AVG	65	67	67

Alternative 2A: Trinity River below North Fork				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
AUG	W	65	68	67
	AN	64	67	67
	BN	65	68	68
	D	64	67	67
	C	65	69	70
	AVG	65	68	68
SEP	W	59	62	62
	AN	59	61	61
	BN	59	62	63
	D	58	62	62
	C	61	64	64
	AVG	59	62	62
OCT	W	53	55	55
	AN	53	55	55
	BN	54	56	56
	D	53	54	55
	C	54	56	56
	AVG	53	55	55
NOV	W	44	45	45
	AN	44	46	46
	BN	44	46	46
	D	44	45	45
	C	45	47	47
	AVG	44	46	46
DEC	W	41	42	42
	AN	40	42	41
	BN	39	41	41
	D	40	41	41
	C	38	40	40
	AVG	40	41	41

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River below North Fork, Year-Round**

Alternative 2A: Trinity River below North Fork			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLТ	NAA vs. A2A_LLТ
JAN	W	1 (2.6%)	-0.1 (-0.2%)
	AN	1 (2.7%)	0 (0%)
	BN	1 (2.6%)	-0.1 (-0.1%)
	D	1.6 (4.3%)	0 (0.1%)
	C	1.7 (4.5%)	0 (0.1%)
	AVG	1.3 (3.3%)	0 (-0.1%)
FEB	W	1 (2.4%)	0 (-0.1%)
	AN	1 (2.4%)	0 (0%)
	BN	1.1 (2.7%)	0 (0%)
	D	1.1 (2.5%)	0 (0%)
	C	1.4 (3.2%)	-0.1 (-0.1%)
	AVG	1.1 (2.6%)	0 (0%)
MAR	W	0.7 (1.6%)	0 (0%)
	AN	0.6 (1.4%)	0 (0%)
	BN	0.7 (1.6%)	0 (0%)
	D	0.7 (1.5%)	0 (0%)
	C	1.1 (2.2%)	0 (0%)
	AVG	0.8 (1.6%)	0 (0%)
APR	W	0.9 (1.6%)	0 (0.1%)
	AN	1 (1.8%)	0 (0.1%)
	BN	1.1 (2%)	0 (0%)
	D	1.2 (2.2%)	0 (0%)
	C	1.4 (2.6%)	0 (0%)
	AVG	1.1 (2%)	0 (0%)
MAY	W	2.1 (4.2%)	0 (0%)
	AN	2.1 (4.1%)	0 (0%)
	BN	1.9 (3.8%)	0 (0%)
	D	2.2 (4.3%)	0 (0%)
	C	2.7 (5%)	0 (0.1%)
	AVG	2.2 (4.3%)	0 (0%)
JUN	W	1.8 (3.2%)	-0.1 (-0.2%)
	AN	0.8 (1.3%)	0 (0%)
	BN	1.7 (2.9%)	0 (0%)
	D	2.2 (3.6%)	0 (0%)
	C	2.3 (3.6%)	-0.2 (-0.4%)
	AVG	1.8 (3.1%)	-0.1 (-0.1%)
JUL	W	2.9 (4.6%)	-0.5 (-0.8%)
	AN	1.8 (2.8%)	-0.4 (-0.7%)
	BN	1.9 (3%)	-0.3 (-0.5%)
	D	2.5 (3.9%)	0 (0%)
	C	3.7 (5.5%)	0.4 (0.5%)
	AVG	2.6 (4%)	-0.2 (-0.3%)

Alternative 2A: Trinity River below North Fork			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	2.4 (3.7%)	-0.1 (-0.2%)
	AN	2.6 (4.1%)	0 (0%)
	BN	2.8 (4.4%)	0 (0%)
	D	3.6 (5.6%)	0.3 (0.5%)
	C	4.6 (7%)	0.7 (1%)
	AVG	3.1 (4.8%)	0.1 (0.2%)
SEP	W	2.6 (4.4%)	0 (0.1%)
	AN	2.6 (4.4%)	0.1 (0.2%)
	BN	3.1 (5.3%)	0.1 (0.2%)
	D	3.9 (6.7%)	0.2 (0.3%)
	C	3.4 (5.6%)	0.4 (0.7%)
	AVG	3.1 (5.2%)	0.1 (0.2%)
OCT	W	1.9 (3.5%)	-0.1 (-0.2%)
	AN	1.8 (3.4%)	-0.1 (-0.1%)
	BN	2 (3.8%)	0.1 (0.1%)
	D	1.9 (3.7%)	0.1 (0.2%)
	C	2.6 (4.8%)	0 (0%)
	AVG	2 (3.8%)	0 (0%)
NOV	W	1.6 (3.7%)	0 (0%)
	AN	1.6 (3.5%)	0 (0%)
	BN	1.9 (4.3%)	0.1 (0.2%)
	D	1.7 (3.9%)	0 (0%)
	C	1.7 (3.7%)	0 (0%)
	AVG	1.7 (3.8%)	0 (0%)
DEC	W	1 (2.4%)	0.1 (0.1%)
	AN	1.5 (3.7%)	-0.1 (-0.2%)
	BN	1.7 (4.3%)	0 (0%)
	D	1.5 (3.7%)	0 (0.1%)
	C	1.9 (4.9%)	0 (0%)
	AVG	1.4 (3.6%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.2.9 Feather River at Fish Barrier Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
3 **the Feather River at Fish Barrier Dam, Year-Round**

Alternative 2A: Feather River at Fish Barrier Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	48	51	51
	AN	47	50	51
	BN	48	51	51
	D	47	51	51
	C	48	51	51
	AVG	48	51	51
FEB	W	48	51	51
	AN	48	51	51
	BN	48	51	52
	D	49	52	52
	C	49	53	53
	AVG	48	51	51
MAR	W	49	51	51
	AN	49	51	51
	BN	50	53	53
	D	51	53	53
	C	51	54	54
	AVG	50	52	53
APR	W	51	52	52
	AN	51	53	53
	BN	52	54	54
	D	52	54	54
	C	52	54	54
	AVG	51	53	53
MAY	W	55	56	55
	AN	56	56	56
	BN	56	56	56
	D	56	56	56
	C	56	57	57
	AVG	55	56	56
JUN	W	57	58	57
	AN	58	58	57
	BN	58	58	58
	D	58	58	58
	C	58	59	59
	AVG	58	58	58
JUL	W	61	61	62
	AN	61	61	61
	BN	61	61	61
	D	61	61	62
	C	61	62	63
	AVG	61	61	62

Alternative 2A: Feather River at Fish Barrier Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL
AUG	W	61	61	61
	AN	60	60	61
	BN	60	60	61
	D	60	62	61
	C	62	64	63
	AVG	61	61	61
SEP	W	56	55	56
	AN	56	55	56
	BN	56	57	58
	D	56	61	59
	C	58	63	62
	AVG	56	58	58
OCT	W	54	58	58
	AN	55	58	58
	BN	54	58	58
	D	54	59	60
	C	54	58	57
	AVG	54	58	58
NOV	W	52	58	58
	AN	53	58	58
	BN	53	58	58
	D	52	59	59
	C	53	58	58
	AVG	53	58	58
DEC	W	49	53	53
	AN	49	55	54
	BN	49	54	55
	D	49	54	54
	C	49	54	54
	AVG	49	54	54

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Fish Barrier Dam, Year-Round**

Alternative 2A: Feather River at Fish Barrier Dam			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLТ	NAA vs. A2A_LLТ
JAN	W	2.8 (5.9%)	0 (0.1%)
	AN	3.1 (6.6%)	0.1 (0.1%)
	BN	3.2 (6.6%)	0.1 (0.3%)
	D	3.6 (7.6%)	0.2 (0.4%)
	C	4 (8.4%)	0.2 (0.3%)
	AVG	3.3 (6.9%)	0.1 (0.2%)
FEB	W	2.6 (5.4%)	0 (-0.1%)
	AN	2.7 (5.5%)	0.1 (0.2%)
	BN	3.2 (6.6%)	0.2 (0.4%)
	D	3 (6.2%)	0.1 (0.2%)
	C	3.5 (7.2%)	0 (0.1%)
	AVG	2.9 (6.1%)	0.1 (0.1%)
MAR	W	2.6 (5.3%)	0.1 (0.2%)
	AN	2.3 (4.7%)	0.1 (0.2%)
	BN	3.4 (6.8%)	0.2 (0.3%)
	D	2.5 (5%)	0.2 (0.4%)
	C	3.2 (6.2%)	0 (0.1%)
	AVG	2.8 (5.5%)	0.1 (0.2%)
APR	W	1.9 (3.7%)	0 (0.1%)
	AN	1.8 (3.5%)	0.1 (0.1%)
	BN	1.8 (3.5%)	0.1 (0.2%)
	D	1.6 (3.1%)	-0.3 (-0.6%)
	C	2.5 (4.9%)	0 (0%)
	AVG	1.9 (3.7%)	0 (-0.1%)
MAY	W	0.6 (1%)	-0.1 (-0.3%)
	AN	0.1 (0.3%)	-0.4 (-0.7%)
	BN	-0.1 (-0.1%)	-0.4 (-0.7%)
	D	0.2 (0.4%)	0 (-0.1%)
	C	0.7 (1.3%)	-0.1 (-0.2%)
	AVG	0.3 (0.6%)	-0.2 (-0.3%)
JUN	W	0.1 (0.2%)	-0.3 (-0.6%)
	AN	-0.3 (-0.6%)	-0.7 (-1.2%)
	BN	-0.3 (-0.5%)	-0.5 (-0.9%)
	D	0.4 (0.8%)	-0.1 (-0.1%)
	C	0.7 (1.3%)	-0.5 (-0.8%)
	AVG	0.1 (0.2%)	-0.4 (-0.7%)
JUL	W	0.3 (0.6%)	0.2 (0.4%)
	AN	0.4 (0.6%)	0.1 (0.1%)
	BN	0.6 (1%)	0.2 (0.3%)
	D	1.2 (2%)	0.7 (1.1%)
	C	2.3 (3.8%)	0.9 (1.4%)
	AVG	0.9 (1.4%)	0.4 (0.6%)

Alternative 2A: Feather River at Fish Barrier Dam			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	0.2 (0.3%)	0.5 (0.8%)
	AN	0.6 (1.1%)	0.5 (0.8%)
	BN	0.8 (1.4%)	0.3 (0.5%)
	D	1.5 (2.6%)	-0.3 (-0.5%)
	C	1.6 (2.5%)	-0.9 (-1.4%)
	AVG	0.9 (1.4%)	0.1 (0.1%)
SEP	W	-0.2 (-0.4%)	0.4 (0.7%)
	AN	0.1 (0.2%)	0.6 (1%)
	BN	2.3 (4.1%)	0.8 (1.4%)
	D	3.6 (6.5%)	-1.3 (-2.1%)
	C	4.3 (7.4%)	-1.1 (-1.8%)
	AVG	1.8 (3.2%)	-0.1 (-0.2%)
OCT	W	4.1 (7.7%)	-0.4 (-0.7%)
	AN	3.1 (5.6%)	-0.3 (-0.6%)
	BN	4.1 (7.6%)	-0.2 (-0.4%)
	D	5.9 (10.9%)	0.2 (0.3%)
	C	3 (5.6%)	-0.7 (-1.3%)
	AVG	4.2 (7.8%)	-0.3 (-0.5%)
NOV	W	5.7 (10.9%)	-0.1 (-0.2%)
	AN	4.4 (8.2%)	-0.6 (-1%)
	BN	5 (9.4%)	-0.5 (-0.8%)
	D	6.4 (12.2%)	0.1 (0.2%)
	C	5.3 (10%)	0.1 (0.1%)
	AVG	5.5 (10.4%)	-0.2 (-0.3%)
DEC	W	4.4 (9.1%)	0 (0%)
	AN	5.1 (10.4%)	-0.5 (-1%)
	BN	5.9 (12.2%)	0.4 (0.7%)
	D	5.1 (10.4%)	0 (0%)
	C	4.8 (9.7%)	0 (0%)
	AVG	5 (10.2%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.2.10 Feather River Low-Flow Channel (above Thermalito**
2 **Afterbay)**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
4 **the Feather River at Low-Flow Channel (above Thermalito Afterbay), Year-Round**

Alternative 2A: Feather River Low-Flow Channel (above Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	47	50	50
	AN	47	50	50
	BN	47	50	50
	D	47	50	50
	C	47	51	51
	AVG	47	50	50
FEB	W	49	51	51
	AN	49	51	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	50	53	53
	AN	51	53	53
	BN	51	54	54
	D	52	55	55
	C	53	56	56
	AVG	51	54	54
APR	W	53	55	55
	AN	55	57	57
	BN	55	57	57
	D	55	57	57
	C	55	57	57
	AVG	55	57	57
MAY	W	59	61	61
	AN	60	62	61
	BN	60	61	61
	D	60	61	61
	C	60	62	62
	AVG	60	61	61
JUN	W	63	65	64
	AN	64	66	65
	BN	64	65	65
	D	64	66	66
	C	63	65	65
	AVG	64	65	65

Alternative 2A: Feather River Low-Flow Channel (above Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JUL	W	68	69	69
	AN	67	69	69
	BN	67	69	69
	D	67	69	69
	C	67	70	71
	AVG	67	69	69
AUG	W	66	68	68
	AN	65	67	67
	BN	66	68	68
	D	65	68	68
	C	67	70	69
	AVG	66	68	68
SEP	W	60	61	61
	AN	60	61	61
	BN	60	62	63
	D	60	65	64
	C	61	66	66
	AVG	60	63	63
OCT	W	55	60	59
	AN	57	60	60
	BN	56	60	60
	D	56	61	61
	C	56	60	59
	AVG	56	60	60
NOV	W	52	58	58
	AN	53	58	57
	BN	53	58	58
	D	53	58	58
	C	53	58	58
	AVG	53	58	58
DEC	W	48	53	53
	AN	49	54	53
	BN	48	53	53
	D	48	53	53
	C	48	53	53
	AVG	48	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
 2 **Water Temperatures in the Feather River at Low-Flow Channel (above Thermalito Afterbay), Year-**
 3 **Round**

Alternative 2A: Feather River Low-Flow Channel (above Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
JAN	W	2.8 (6%)	0 (0.1%)
	AN	3.2 (6.7%)	0.1 (0.1%)
	BN	3.1 (6.5%)	0.1 (0.2%)
	D	3.4 (7.3%)	0.2 (0.3%)
	C	3.8 (8%)	0.1 (0.3%)
	AVG	3.2 (6.8%)	0.1 (0.2%)
FEB	W	2.6 (5.4%)	0 (-0.1%)
	AN	2.7 (5.5%)	0.1 (0.2%)
	BN	3.1 (6.3%)	0.2 (0.3%)
	D	2.9 (6%)	0.1 (0.1%)
	C	3.4 (6.8%)	0 (0.1%)
	AVG	2.9 (5.9%)	0.1 (0.1%)
MAR	W	2.6 (5.1%)	0.1 (0.1%)
	AN	2.3 (4.6%)	0.1 (0.1%)
	BN	3.1 (6.1%)	0.1 (0.2%)
	D	2.5 (4.8%)	0.1 (0.3%)
	C	3 (5.7%)	0 (0.1%)
	AVG	2.7 (5.2%)	0.1 (0.2%)
APR	W	1.9 (3.5%)	0 (0%)
	AN	2 (3.6%)	0.1 (0.1%)
	BN	1.9 (3.5%)	0.1 (0.1%)
	D	1.9 (3.4%)	-0.2 (-0.4%)
	C	2.5 (4.6%)	0 (0%)
	AVG	2 (3.7%)	0 (-0.1%)
MAY	W	1.3 (2.2%)	-0.1 (-0.2%)
	AN	1.1 (1.8%)	-0.3 (-0.4%)
	BN	0.9 (1.5%)	-0.3 (-0.4%)
	D	1.1 (1.9%)	0 (0%)
	C	1.5 (2.4%)	-0.1 (-0.2%)
	AVG	1.2 (2%)	-0.1 (-0.2%)
JUN	W	1.4 (2.2%)	-0.2 (-0.3%)
	AN	1.3 (2.1%)	-0.4 (-0.6%)
	BN	1.3 (2%)	-0.3 (-0.5%)
	D	1.8 (2.9%)	0 (0%)
	C	1.9 (2.9%)	-0.3 (-0.4%)
	AVG	1.5 (2.4%)	-0.2 (-0.4%)
JUL	W	1.7 (2.6%)	0.1 (0.2%)
	AN	1.8 (2.7%)	0.1 (0.1%)
	BN	1.9 (2.9%)	0.1 (0.2%)
	D	2.3 (3.5%)	0.4 (0.6%)
	C	3.2 (4.8%)	0.6 (0.8%)
	AVG	2.1 (3.2%)	0.2 (0.4%)

Alternative 2A: Feather River Low-Flow Channel (above Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	1.8 (2.7%)	0.3 (0.4%)
	AN	2 (3.1%)	0.3 (0.4%)
	BN	2.2 (3.4%)	0.2 (0.3%)
	D	2.6 (4%)	-0.2 (-0.3%)
	C	2.6 (3.9%)	-0.6 (-0.8%)
	AVG	2.2 (3.3%)	0 (0.1%)
SEP	W	1.1 (1.8%)	0.3 (0.4%)
	AN	1.2 (2.1%)	0.4 (0.7%)
	BN	2.9 (4.7%)	0.6 (0.9%)
	D	3.9 (6.5%)	-0.9 (-1.5%)
	C	4.2 (6.9%)	-0.8 (-1.3%)
	AVG	2.5 (4.1%)	-0.1 (-0.2%)
OCT	W	4 (7.2%)	-0.3 (-0.6%)
	AN	3.1 (5.5%)	-0.2 (-0.4%)
	BN	4 (7.2%)	-0.1 (-0.2%)
	D	5.4 (9.7%)	0.2 (0.3%)
	C	3.2 (5.7%)	-0.6 (-0.9%)
	AVG	4.1 (7.3%)	-0.2 (-0.4%)
NOV	W	5.3 (10.1%)	-0.1 (-0.2%)
	AN	4.1 (7.8%)	-0.5 (-0.9%)
	BN	4.6 (8.8%)	-0.4 (-0.7%)
	D	5.8 (11.1%)	0.1 (0.1%)
	C	5 (9.4%)	0.1 (0.2%)
	AVG	5.1 (9.6%)	-0.1 (-0.2%)
DEC	W	4.2 (8.8%)	0 (0%)
	AN	4.7 (9.7%)	-0.4 (-0.8%)
	BN	5.4 (11.2%)	0.3 (0.6%)
	D	4.7 (9.8%)	0 (0%)
	C	4.5 (9.3%)	0 (0%)
	AVG	4.6 (9.6%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.2.11 Feather River High-Flow Channel (below Thermalito**
2 **Afterbay)**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
4 **the Feather River at High-Flow Channel (below Thermalito Afterbay), Year-Round**

Alternative 2A: Feather River High-Flow Channel (below Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	47	50	50
	AN	47	50	50
	BN	46	49	49
	D	46	49	49
	C	46	50	50
	AVG	47	49	49
FEB	W	49	52	51
	AN	49	52	52
	BN	49	52	53
	D	50	53	53
	C	51	54	54
	AVG	50	52	52
MAR	W	51	54	54
	AN	52	54	54
	BN	53	56	56
	D	54	57	57
	C	54	57	57
	AVG	53	55	55
APR	W	55	57	57
	AN	57	59	59
	BN	58	59	59
	D	57	60	60
	C	57	60	60
	AVG	57	59	59
MAY	W	61	63	63
	AN	63	64	64
	BN	63	65	64
	D	63	65	65
	C	63	66	65
	AVG	62	64	64
JUN	W	66	68	67
	AN	67	70	67
	BN	67	70	68
	D	68	71	70
	C	68	71	71
	AVG	67	70	68

Alternative 2A: Feather River High-Flow Channel (below Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL2
JUL	W	70	70	71
	AN	68	69	70
	BN	68	70	71
	D	68	70	73
	C	70	74	76
	AVG	69	71	72
AUG	W	70	70	72
	AN	67	69	71
	BN	68	70	72
	D	67	71	72
	C	70	74	74
	AVG	69	71	72
SEP	W	64	63	64
	AN	64	64	65
	BN	65	68	67
	D	64	67	67
	C	64	69	69
	AVG	64	66	66
OCT	W	58	62	62
	AN	60	63	63
	BN	59	63	63
	D	58	63	63
	C	59	63	62
	AVG	59	63	63
NOV	W	53	57	57
	AN	54	58	58
	BN	53	57	57
	D	53	57	57
	C	53	57	58
	AVG	53	57	57
DEC	W	48	51	51
	AN	48	52	52
	BN	47	51	51
	D	47	51	51
	C	47	50	50
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
 2 **Water Temperatures in the Feather River at High-Flow Channel (below Thermalito Afterbay), Year-**
 3 **Round**

Alternative 2A: Feather River High-Flow Channel (below Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
JAN	W	2.7 (5.8%)	0.1 (0.1%)
	AN	2.9 (6.2%)	0 (0%)
	BN	2.8 (6.1%)	0.1 (0.2%)
	D	3 (6.5%)	0.1 (0.3%)
	C	3.3 (7.1%)	0 (0%)
	AVG	2.9 (6.3%)	0.1 (0.1%)
FEB	W	2.5 (5.2%)	-0.1 (-0.3%)
	AN	2.9 (5.9%)	-0.2 (-0.4%)
	BN	3.1 (6.2%)	0.1 (0.2%)
	D	2.8 (5.7%)	0.1 (0.1%)
	C	3.1 (6.1%)	0 (0%)
	AVG	2.8 (5.7%)	0 (-0.1%)
MAR	W	2.4 (4.8%)	0.1 (0.3%)
	AN	1.5 (2.9%)	-0.2 (-0.3%)
	BN	3 (5.7%)	0 (0%)
	D	2.6 (4.8%)	0.1 (0.2%)
	C	3.2 (5.9%)	0.1 (0.3%)
	AVG	2.6 (4.9%)	0.1 (0.1%)
APR	W	2 (3.7%)	0 (0%)
	AN	2.4 (4.2%)	0.1 (0.2%)
	BN	1.6 (2.8%)	-0.1 (-0.2%)
	D	2.5 (4.4%)	0.1 (0.2%)
	C	2.8 (5%)	0.4 (0.6%)
	AVG	2.2 (3.9%)	0.1 (0.1%)
MAY	W	2.4 (4%)	-0.3 (-0.5%)
	AN	1.3 (2.1%)	-0.3 (-0.5%)
	BN	1.7 (2.6%)	-0.5 (-0.7%)
	D	2.1 (3.4%)	-0.2 (-0.3%)
	C	2.2 (3.5%)	-0.1 (-0.1%)
	AVG	2 (3.3%)	-0.3 (-0.4%)
JUN	W	1.1 (1.7%)	-1.5 (-2.3%)
	AN	-0.6 (-0.9%)	-3.1 (-4.5%)
	BN	0.1 (0.2%)	-2.2 (-3.2%)
	D	2.3 (3.4%)	-0.6 (-0.8%)
	C	2.9 (4.3%)	-0.1 (-0.2%)
	AVG	1.2 (1.9%)	-1.5 (-2.1%)
JUL	W	1.6 (2.3%)	1.1 (1.6%)
	AN	1.8 (2.7%)	0.5 (0.7%)
	BN	3 (4.4%)	1 (1.4%)
	D	4.8 (7.1%)	2.6 (3.6%)
	C	6.1 (8.8%)	1.9 (2.5%)
	AVG	3.3 (4.7%)	1.4 (2%)

Alternative 2A: Feather River High-Flow Channel (below Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
AUG	W	2 (2.9%)	1.4 (1.9%)
	AN	3.4 (5%)	1.6 (2.3%)
	BN	3.5 (5.2%)	1.4 (2%)
	D	5.2 (7.7%)	1.3 (1.8%)
	C	4.1 (5.9%)	0 (0.1%)
	AVG	3.5 (5.1%)	1.2 (1.7%)
SEP	W	0.2 (0.3%)	0.9 (1.4%)
	AN	1.2 (1.9%)	1.7 (2.6%)
	BN	1.9 (3%)	-1 (-1.4%)
	D	2.6 (4%)	0.1 (0.1%)
	C	4.7 (7.4%)	-0.2 (-0.2%)
	AVG	1.8 (2.9%)	0.3 (0.5%)
OCT	W	3.8 (6.6%)	-0.1 (-0.2%)
	AN	3.1 (5.3%)	-0.3 (-0.4%)
	BN	3.7 (6.2%)	0.1 (0.1%)
	D	4.4 (7.5%)	0.1 (0.2%)
	C	3.6 (6.1%)	-0.2 (-0.4%)
	AVG	3.8 (6.5%)	-0.1 (-0.1%)
NOV	W	4.3 (8.1%)	0 (0%)
	AN	3.8 (7%)	-0.2 (-0.4%)
	BN	4 (7.5%)	-0.1 (-0.3%)
	D	4.7 (8.9%)	0 (0%)
	C	4.2 (7.8%)	0.1 (0.2%)
	AVG	4.2 (8%)	0 (-0.1%)
DEC	W	3.5 (7.4%)	0 (0.1%)
	AN	4.2 (8.8%)	-0.3 (-0.6%)
	BN	4.5 (9.6%)	0.3 (0.5%)
	D	3.9 (8.4%)	-0.2 (-0.3%)
	C	3.8 (8.1%)	-0.1 (-0.1%)
	AVG	3.9 (8.3%)	0 (-0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.2.12 Feather River at Gridley Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
3 **the Feather River at Gridley Dam, Year-Round**

Alternative 2A: Feather River at Gridley Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	46	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	49	52	52
	BN	50	53	53
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	51	54	54
	AN	53	54	54
	BN	54	57	57
	D	55	57	57
	C	54	57	57
	AVG	53	56	56
APR	W	56	58	58
	AN	58	60	60
	BN	59	61	60
	D	59	61	61
	C	58	61	61
	AVG	58	60	60
MAY	W	61	64	64
	AN	64	66	65
	BN	64	66	65
	D	64	66	66
	C	64	67	67
	AVG	63	66	65
JUN	W	67	69	68
	AN	69	71	68
	BN	69	71	69
	D	69	72	72
	C	69	72	72
	AVG	68	71	69
JUL	W	70	71	72
	AN	69	70	71
	BN	69	71	72
	D	69	71	74
	C	71	75	77
	AVG	70	72	73

Alternative 2A: Feather River at Gridley Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL
AUG	W	71	71	73
	AN	68	70	72
	BN	69	71	73
	D	68	72	73
	C	71	75	75
	AVG	69	72	73
SEP	W	65	64	65
	AN	65	64	66
	BN	66	69	69
	D	65	68	68
	C	66	70	70
	AVG	65	67	67
OCT	W	59	63	63
	AN	60	63	63
	BN	60	63	63
	D	59	63	63
	C	59	63	63
	AVG	59	63	63
NOV	W	53	57	57
	AN	54	58	57
	BN	53	57	57
	D	53	57	57
	C	54	57	58
	AVG	53	57	57
DEC	W	48	51	51
	AN	47	52	52
	BN	47	51	51
	D	47	51	50
	C	46	50	50
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Gridley Dam, Year-Round**

Alternative 2A: Feather River at Gridley Dam			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
JAN	W	2.7 (5.8%)	0.1 (0.1%)
	AN	2.9 (6.2%)	-0.1 (-0.1%)
	BN	2.8 (6.1%)	0.1 (0.2%)
	D	3 (6.5%)	0.1 (0.3%)
	C	3.3 (7%)	0 (0%)
	AVG	2.9 (6.2%)	0.1 (0.1%)
FEB	W	2.5 (5.1%)	-0.1 (-0.3%)
	AN	2.9 (5.9%)	-0.2 (-0.4%)
	BN	3.1 (6.2%)	0.1 (0.1%)
	D	2.8 (5.6%)	0 (0.1%)
	C	3.1 (6%)	0 (0%)
	AVG	2.8 (5.7%)	-0.1 (-0.1%)
MAR	W	2.4 (4.7%)	0.1 (0.2%)
	AN	1.6 (2.9%)	-0.2 (-0.3%)
	BN	3 (5.7%)	0 (0.1%)
	D	2.6 (4.7%)	0.1 (0.1%)
	C	3 (5.5%)	0.1 (0.2%)
	AVG	2.5 (4.7%)	0.1 (0.1%)
APR	W	2 (3.6%)	0 (0%)
	AN	2.4 (4.1%)	0.1 (0.2%)
	BN	1.7 (2.8%)	-0.2 (-0.3%)
	D	2.2 (3.8%)	-0.1 (-0.2%)
	C	2.6 (4.5%)	0.2 (0.3%)
	AVG	2.1 (3.7%)	0 (0%)
MAY	W	2.6 (4.3%)	-0.4 (-0.6%)
	AN	1.3 (2.1%)	-0.5 (-0.8%)
	BN	1.4 (2.2%)	-0.7 (-1%)
	D	2 (3.1%)	-0.2 (-0.3%)
	C	2.2 (3.5%)	-0.1 (-0.1%)
	AVG	2 (3.2%)	-0.4 (-0.5%)
JUN	W	1.2 (1.7%)	-1.6 (-2.3%)
	AN	-0.8 (-1.1%)	-3.3 (-4.6%)
	BN	0 (0%)	-2.3 (-3.3%)
	D	2.3 (3.4%)	-0.6 (-0.8%)
	C	2.9 (4.3%)	-0.1 (-0.2%)
	AVG	1.2 (1.8%)	-1.5 (-2.1%)
JUL	W	1.8 (2.5%)	1.1 (1.6%)
	AN	2 (2.9%)	0.4 (0.6%)
	BN	3.2 (4.6%)	1 (1.4%)
	D	5.1 (7.5%)	2.7 (3.8%)
	C	6.3 (8.9%)	1.9 (2.5%)
	AVG	3.5 (5%)	1.5 (2.1%)

Alternative 2A: Feather River at Gridley Dam			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	2 (2.9%)	1.4 (2%)
	AN	3.5 (5.1%)	1.6 (2.4%)
	BN	3.7 (5.4%)	1.4 (2%)
	D	5.5 (8.1%)	1.2 (1.7%)
	C	4.1 (5.8%)	0 (-0.1%)
	AVG	3.6 (5.2%)	1.2 (1.7%)
SEP	W	-0.3 (-0.5%)	0.9 (1.5%)
	AN	0.9 (1.5%)	1.7 (2.7%)
	BN	2.6 (3.9%)	-0.3 (-0.4%)
	D	3.2 (4.9%)	-0.1 (-0.1%)
	C	4.5 (6.9%)	-0.2 (-0.2%)
	AVG	1.9 (2.8%)	0.4 (0.7%)
OCT	W	3.8 (6.5%)	-0.1 (-0.2%)
	AN	3 (5%)	-0.3 (-0.5%)
	BN	3.7 (6.2%)	0.1 (0.1%)
	D	4.2 (7.2%)	0.1 (0.1%)
	C	3.4 (5.8%)	-0.3 (-0.5%)
	AVG	3.7 (6.3%)	-0.1 (-0.2%)
NOV	W	4.1 (7.8%)	0 (0%)
	AN	3.7 (6.8%)	-0.2 (-0.4%)
	BN	3.9 (7.3%)	-0.1 (-0.2%)
	D	4.5 (8.5%)	0 (0%)
	C	4.1 (7.6%)	0.1 (0.2%)
	AVG	4.1 (7.7%)	0 (-0.1%)
DEC	W	3.4 (7.2%)	0 (0.1%)
	AN	4.1 (8.6%)	-0.3 (-0.5%)
	BN	4.3 (9.3%)	0.2 (0.5%)
	D	3.8 (8.2%)	-0.1 (-0.3%)
	C	3.7 (7.9%)	-0.1 (-0.1%)
	AVG	3.8 (8.1%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.2.13 Feather River at Honcut Creek**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
3 **the Feather River at Honcut Creek, Year-Round**

Alternative 2A: Feather River at Honcut Creek				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	47	50	50
	AN	46	49	49
	BN	46	49	49
	D	45	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	49	53	52
	BN	50	53	53
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	52	54	54
	AN	53	55	54
	BN	54	57	57
	D	55	58	58
	C	55	58	58
	AVG	53	56	56
APR	W	56	58	58
	AN	59	61	61
	BN	60	62	61
	D	60	62	62
	C	59	62	62
	AVG	58	61	60
MAY	W	62	65	65
	AN	65	67	66
	BN	65	67	66
	D	65	67	67
	C	65	68	68
	AVG	64	67	66
JUN	W	67	70	68
	AN	69	72	69
	BN	69	72	69
	D	70	73	72
	C	69	73	72
	AVG	69	72	70
JUL	W	71	72	73
	AN	69	71	71
	BN	69	72	73
	D	69	72	75
	C	71	76	78
	AVG	70	72	74

Alternative 2A: Feather River at Honcut Creek				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL
AUG	W	72	72	74
	AN	69	71	72
	BN	69	72	73
	D	68	73	74
	C	72	76	76
	AVG	70	73	74
SEP	W	66	64	65
	AN	66	65	67
	BN	67	69	70
	D	66	70	70
	C	66	71	71
	AVG	66	68	68
OCT	W	59	63	63
	AN	60	64	63
	BN	60	64	64
	D	59	63	63
	C	60	64	63
	AVG	60	63	63
NOV	W	53	57	57
	AN	54	58	57
	BN	53	57	57
	D	53	57	57
	C	54	57	58
	AVG	53	57	57
DEC	W	47	51	51
	AN	47	52	51
	BN	46	51	51
	D	46	50	50
	C	46	50	50
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Honcut Creek, Year-Round**

Alternative 2A: Feather River at Honcut Creek			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLТ	NAA vs. A2A_LLТ
JAN	W	2.7 (5.8%)	0 (0.1%)
	AN	2.9 (6.2%)	0 (-0.1%)
	BN	2.8 (6.1%)	0.1 (0.2%)
	D	2.9 (6.4%)	0.1 (0.2%)
	C	3.2 (7%)	0 (-0.1%)
	AVG	2.9 (6.2%)	0 (0.1%)
FEB	W	2.5 (5.2%)	-0.1 (-0.3%)
	AN	2.9 (5.9%)	-0.2 (-0.3%)
	BN	3 (6.1%)	0.1 (0.1%)
	D	2.8 (5.6%)	0 (0.1%)
	C	3 (5.9%)	0 (0%)
	AVG	2.8 (5.6%)	0 (-0.1%)
MAR	W	2.4 (4.7%)	0.1 (0.2%)
	AN	1.5 (2.9%)	-0.2 (-0.4%)
	BN	3.1 (5.7%)	0 (0.1%)
	D	2.5 (4.6%)	0 (0.1%)
	C	2.9 (5.3%)	0.1 (0.2%)
	AVG	2.5 (4.7%)	0 (0.1%)
APR	W	2 (3.6%)	0 (0%)
	AN	2.4 (4%)	0.1 (0.1%)
	BN	1.7 (2.9%)	-0.2 (-0.4%)
	D	2 (3.4%)	-0.3 (-0.4%)
	C	2.5 (4.2%)	0 (0%)
	AVG	2.1 (3.6%)	-0.1 (-0.1%)
MAY	W	2.8 (4.5%)	-0.4 (-0.6%)
	AN	1.4 (2.1%)	-0.7 (-1.1%)
	BN	1.2 (1.8%)	-0.8 (-1.2%)
	D	1.8 (2.8%)	-0.2 (-0.3%)
	C	2.3 (3.5%)	-0.1 (-0.1%)
	AVG	2 (3.2%)	-0.4 (-0.6%)
JUN	W	1.2 (1.8%)	-1.6 (-2.4%)
	AN	-0.8 (-1.2%)	-3.3 (-4.6%)
	BN	-0.1 (-0.1%)	-2.4 (-3.3%)
	D	2.4 (3.4%)	-0.6 (-0.8%)
	C	3 (4.4%)	-0.1 (-0.1%)
	AVG	1.2 (1.8%)	-1.5 (-2.1%)
JUL	W	1.9 (2.7%)	1.2 (1.6%)
	AN	2.1 (3.1%)	0.5 (0.7%)
	BN	3.3 (4.8%)	1 (1.4%)
	D	5.3 (7.7%)	2.7 (3.8%)
	C	6.4 (9%)	1.9 (2.5%)
	AVG	3.6 (5.2%)	1.5 (2.1%)

Alternative 2A: Feather River at Honcut Creek			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
AUG	W	2.1 (3%)	1.5 (2%)
	AN	3.5 (5.1%)	1.6 (2.3%)
	BN	3.9 (5.6%)	1.5 (2%)
	D	5.7 (8.4%)	1.2 (1.6%)
	C	4.1 (5.7%)	-0.2 (-0.2%)
	AVG	3.7 (5.3%)	1.2 (1.6%)
SEP	W	-0.6 (-1%)	0.9 (1.5%)
	AN	0.8 (1.2%)	1.7 (2.7%)
	BN	3.1 (4.6%)	0.2 (0.3%)
	D	3.7 (5.6%)	-0.2 (-0.3%)
	C	4.3 (6.5%)	-0.2 (-0.3%)
	AVG	1.9 (2.9%)	0.5 (0.7%)
OCT	W	3.7 (6.3%)	-0.1 (-0.2%)
	AN	2.9 (4.8%)	-0.3 (-0.5%)
	BN	3.7 (6.1%)	0 (0.1%)
	D	4.1 (6.9%)	0 (0.1%)
	C	3.5 (5.8%)	-0.3 (-0.5%)
	AVG	3.6 (6.1%)	-0.1 (-0.2%)
NOV	W	4.1 (7.7%)	0 (0%)
	AN	3.6 (6.8%)	-0.2 (-0.4%)
	BN	3.8 (7.2%)	-0.1 (-0.2%)
	D	4.4 (8.3%)	0 (0%)
	C	4 (7.4%)	0.1 (0.2%)
	AVG	4 (7.6%)	0 (-0.1%)
DEC	W	3.4 (7.1%)	0 (0.1%)
	AN	4 (8.5%)	-0.3 (-0.5%)
	BN	4.3 (9.2%)	0.2 (0.5%)
	D	3.8 (8.1%)	-0.1 (-0.2%)
	C	3.5 (7.7%)	0 (-0.1%)
	AVG	3.7 (8%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.2.14 Feather River at the Confluence with the Sacramento**
2 **River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
4 **the Feather River at the Confluence with the Sacramento River, Year-Round**

Alternative 2A: Feather River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	47	48	48
	AN	46	48	48
	BN	46	47	47
	D	45	47	47
	C	45	48	48
	AVG	46	48	48
FEB	W	50	52	52
	AN	50	52	52
	BN	50	51	51
	D	50	52	52
	C	51	53	53
	AVG	50	52	52
MAR	W	53	55	55
	AN	54	56	56
	BN	55	57	57
	D	55	57	57
	C	56	58	58
	AVG	55	56	56
APR	W	59	60	60
	AN	60	62	62
	BN	61	62	62
	D	62	64	64
	C	63	65	65
	AVG	61	63	62
MAY	W	65	68	67
	AN	66	69	69
	BN	67	69	69
	D	68	70	70
	C	68	71	71
	AVG	66	69	69
JUN	W	70	73	72
	AN	71	75	73
	BN	72	75	73
	D	73	77	76
	C	72	76	76
	AVG	71	75	74

Alternative 2A: Feather River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JUL	W	74	76	77
	AN	72	75	75
	BN	73	76	77
	D	73	76	78
	C	75	79	80
	AVG	73	76	78
AUG	W	73	76	77
	AN	71	74	75
	BN	72	75	76
	D	72	76	77
	C	75	79	79
	AVG	73	76	77
SEP	W	71	70	71
	AN	70	70	71
	BN	70	73	74
	D	70	74	74
	C	70	74	74
	AVG	70	72	73
OCT	W	61	64	64
	AN	62	64	64
	BN	61	64	64
	D	61	64	64
	C	62	65	65
	AVG	61	64	64
NOV	W	52	55	55
	AN	53	56	56
	BN	53	55	55
	D	52	55	55
	C	53	56	56
	AVG	53	55	55
DEC	W	47	49	49
	AN	47	50	50
	BN	46	49	49
	D	46	49	48
	C	45	47	48
	AVG	46	49	49

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

Alternative 2A: Feather River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
JAN	W	1.9 (4%)	0 (0%)
	AN	1.8 (4%)	0 (0%)
	BN	1.9 (4.1%)	0 (0.1%)
	D	2.2 (4.8%)	0.1 (0.2%)
	C	2.2 (4.8%)	-0.1 (-0.2%)
	AVG	2 (4.3%)	0 (0%)
FEB	W	1.9 (3.9%)	0 (0%)
	AN	1.9 (3.8%)	0 (-0.1%)
	BN	1.7 (3.4%)	0 (0%)
	D	1.9 (3.8%)	0 (0%)
	C	2.2 (4.3%)	0 (0%)
	AVG	1.9 (3.8%)	0 (0%)
MAR	W	1.8 (3.3%)	0 (0.1%)
	AN	1.2 (2.3%)	-0.1 (-0.2%)
	BN	1.9 (3.4%)	0 (0%)
	D	1.7 (3.1%)	0 (0%)
	C	2.1 (3.8%)	0.1 (0.1%)
	AVG	1.7 (3.2%)	0 (0%)
APR	W	1.6 (2.7%)	0 (0%)
	AN	1.9 (3.2%)	0 (0%)
	BN	1.4 (2.4%)	-0.2 (-0.4%)
	D	1.9 (3.1%)	-0.2 (-0.2%)
	C	2.1 (3.3%)	-0.1 (-0.2%)
	AVG	1.8 (2.9%)	-0.1 (-0.1%)
MAY	W	2.9 (4.5%)	-0.1 (-0.2%)
	AN	2.5 (3.7%)	-0.5 (-0.7%)
	BN	2.1 (3.1%)	-0.5 (-0.7%)
	D	2.4 (3.5%)	-0.2 (-0.3%)
	C	2.7 (4%)	0 (0%)
	AVG	2.6 (3.8%)	-0.2 (-0.4%)
JUN	W	2.4 (3.5%)	-1.1 (-1.4%)
	AN	1.1 (1.6%)	-2.2 (-3%)
	BN	1.7 (2.3%)	-1.7 (-2.3%)
	D	3.3 (4.5%)	-0.5 (-0.6%)
	C	3.5 (4.8%)	0 (0%)
	AVG	2.5 (3.5%)	-1 (-1.4%)
JUL	W	3.6 (4.9%)	1 (1.3%)
	AN	3.1 (4.3%)	0.4 (0.6%)
	BN	3.9 (5.3%)	0.8 (1%)
	D	5.4 (7.5%)	2.1 (2.8%)
	C	5.8 (7.8%)	1.3 (1.7%)
	AVG	4.3 (5.9%)	1.2 (1.5%)

Alternative 2A: Feather River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	3.7 (5%)	1.1 (1.5%)
	AN	3.8 (5.3%)	1.1 (1.5%)
	BN	4 (5.5%)	0.9 (1.2%)
	D	5.6 (7.9%)	0.9 (1.2%)
	C	4.2 (5.6%)	-0.1 (-0.2%)
	AVG	4.2 (5.9%)	0.9 (1.1%)
SEP	W	0.1 (0.1%)	0.8 (1.1%)
	AN	1.3 (1.8%)	1.4 (2%)
	BN	3.9 (5.6%)	1 (1.3%)
	D	4.3 (6.2%)	-0.1 (-0.1%)
	C	3.5 (5%)	-0.1 (-0.2%)
	AVG	2.4 (3.4%)	0.6 (0.8%)
OCT	W	3.1 (5.1%)	-0.1 (-0.1%)
	AN	2.4 (3.8%)	-0.2 (-0.3%)
	BN	3 (4.9%)	0.1 (0.1%)
	D	3.1 (5%)	0 (0%)
	C	3.1 (5%)	-0.2 (-0.3%)
	AVG	3 (4.9%)	-0.1 (-0.1%)
NOV	W	2.8 (5.3%)	0 (0%)
	AN	2.7 (5.1%)	-0.2 (-0.3%)
	BN	2.8 (5.2%)	-0.1 (-0.2%)
	D	2.8 (5.4%)	0 (0.1%)
	C	2.9 (5.5%)	0.1 (0.2%)
	AVG	2.8 (5.3%)	0 (0%)
DEC	W	1.9 (4.2%)	0 (0.1%)
	AN	2.7 (5.7%)	-0.2 (-0.5%)
	BN	2.9 (6.2%)	0.1 (0.2%)
	D	2.3 (5%)	-0.3 (-0.6%)
	C	2.5 (5.5%)	0.1 (0.3%)
	AVG	2.4 (5.1%)	0 (-0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.2.15 American River below Nimbus Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
3 **the American River below Nimbus Dam, Year-Round**

Alternative 2A: American River below Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	47	50	50
	AN	47	49	50
	BN	46	49	49
	D	47	49	49
	C	47	50	50
	AVG	47	50	50
FEB	W	48	51	51
	AN	48	52	52
	BN	47	51	51
	D	49	52	52
	C	51	54	54
	AVG	48	52	52
MAR	W	52	55	55
	AN	53	56	56
	BN	53	56	56
	D	53	57	57
	C	55	58	58
	AVG	53	56	56
APR	W	56	59	59
	AN	57	60	60
	BN	57	61	61
	D	59	62	61
	C	59	63	63
	AVG	58	60	60
MAY	W	60	64	64
	AN	61	66	65
	BN	61	65	65
	D	64	67	66
	C	64	68	68
	AVG	62	66	65
JUN	W	64	67	66
	AN	65	68	67
	BN	65	68	67
	D	67	69	69
	C	68	72	72
	AVG	66	68	68
JUL	W	66	68	68
	AN	66	66	67
	BN	66	67	67
	D	67	69	70
	C	70	74	75
	AVG	67	69	69

Alternative 2A: American River below Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL
AUG	W	67	70	70
	AN	67	69	70
	BN	67	69	70
	D	67	71	72
	C	70	76	77
	AVG	67	71	71
SEP	W	65	68	68
	AN	66	69	69
	BN	66	69	69
	D	66	71	71
	C	68	73	73
	AVG	66	70	70
OCT	W	58	68	67
	AN	59	68	68
	BN	58	68	68
	D	59	67	67
	C	61	68	68
	AVG	59	68	68
NOV	W	57	61	61
	AN	57	61	61
	BN	56	61	61
	D	57	61	60
	C	58	61	61
	AVG	57	61	61
DEC	W	50	53	53
	AN	51	53	53
	BN	50	52	52
	D	50	53	53
	C	50	52	53
	AVG	50	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the American River below Nimbus Dam, Year-Round**

Alternative 2A: American River below Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
JAN	W	3.1 (6.7%)	0 (0.1%)
	AN	2.7 (5.8%)	0 (0.1%)
	BN	3 (6.5%)	0 (0.1%)
	D	2.8 (6%)	-0.1 (-0.2%)
	C	2.8 (6.1%)	-0.1 (-0.3%)
	AVG	2.9 (6.3%)	0 (0%)
FEB	W	3.4 (7.2%)	0 (0%)
	AN	3.8 (7.9%)	0 (0%)
	BN	3.3 (7.1%)	0.1 (0.1%)
	D	3.4 (7%)	0 (0%)
	C	3.5 (6.8%)	0.2 (0.3%)
	AVG	3.5 (7.2%)	0 (0.1%)
MAR	W	3.1 (6%)	0 (0%)
	AN	3 (5.6%)	0 (0.1%)
	BN	2.6 (5%)	0 (0.1%)
	D	3.4 (6.3%)	-0.1 (-0.1%)
	C	2.9 (5.3%)	-0.1 (-0.1%)
	AVG	3 (5.7%)	0 (0%)
APR	W	3 (5.3%)	0 (0%)
	AN	3.2 (5.5%)	0 (0%)
	BN	3.1 (5.4%)	0 (0%)
	D	2.3 (4%)	-0.2 (-0.3%)
	C	3.4 (5.7%)	0.2 (0.3%)
	AVG	2.9 (5.1%)	0 (0%)
MAY	W	4.1 (6.9%)	-0.1 (-0.1%)
	AN	4.4 (7.2%)	-0.4 (-0.6%)
	BN	3.9 (6.4%)	-0.2 (-0.3%)
	D	2.3 (3.6%)	-0.8 (-1.1%)
	C	3.8 (5.9%)	0.1 (0.2%)
	AVG	3.7 (5.9%)	-0.3 (-0.4%)
JUN	W	2.3 (3.6%)	-0.7 (-1%)
	AN	1.9 (2.9%)	-0.9 (-1.3%)
	BN	2.1 (3.3%)	-0.9 (-1.3%)
	D	1.5 (2.3%)	-0.3 (-0.5%)
	C	3.9 (5.7%)	-0.4 (-0.5%)
	AVG	2.3 (3.5%)	-0.6 (-0.9%)
JUL	W	1.6 (2.4%)	0.1 (0.1%)
	AN	0.9 (1.4%)	0.5 (0.7%)
	BN	1.6 (2.4%)	0.4 (0.6%)
	D	3 (4.5%)	0.8 (1.1%)
	C	4.8 (6.8%)	0.4 (0.5%)
	AVG	2.3 (3.4%)	0.4 (0.6%)

Alternative 2A: American River below Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	3.1 (4.7%)	0 (-0.1%)
	AN	2.7 (4%)	0.6 (0.9%)
	BN	3 (4.4%)	1.1 (1.6%)
	D	4.8 (7.2%)	0.6 (0.9%)
	C	7.1 (10.1%)	0.8 (1.1%)
	AVG	4 (5.9%)	0.5 (0.7%)
SEP	W	2.8 (4.3%)	0.1 (0.2%)
	AN	3.6 (5.5%)	0.5 (0.8%)
	BN	2.9 (4.4%)	0.2 (0.3%)
	D	4.6 (7%)	-0.4 (-0.5%)
	C	5 (7.3%)	0.1 (0.2%)
	AVG	3.7 (5.5%)	0.1 (0.1%)
OCT	W	9.1 (15.6%)	-0.2 (-0.3%)
	AN	8.7 (14.7%)	0 (0%)
	BN	9.8 (16.7%)	0 (0%)
	D	8.4 (14.2%)	0.1 (0.1%)
	C	7.5 (12.3%)	0.1 (0.1%)
	AVG	8.8 (14.8%)	0 (0%)
NOV	W	3.7 (6.4%)	-0.2 (-0.3%)
	AN	3.8 (6.6%)	-0.1 (-0.1%)
	BN	4.4 (7.9%)	0.1 (0.1%)
	D	3.7 (6.6%)	-0.1 (-0.2%)
	C	3.5 (6.1%)	-0.1 (-0.1%)
	AVG	3.8 (6.7%)	-0.1 (-0.2%)
DEC	W	2.5 (5.1%)	-0.1 (-0.1%)
	AN	2.7 (5.4%)	0 (0.1%)
	BN	2.8 (5.5%)	0 (0.1%)
	D	2.6 (5.1%)	-0.1 (-0.2%)
	C	2.6 (5.2%)	0.1 (0.1%)
	AVG	2.6 (5.2%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.2.16 American River at Watt Avenue**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
3 **the American River at Watt Avenue, Year-Round**

Alternative 2A: American River at Watt Avenue				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	46	49	49
	C	46	49	49
	AVG	46	49	49
FEB	W	48	52	52
	AN	48	52	52
	BN	48	51	51
	D	49	52	52
	C	51	54	54
	AVG	49	52	52
MAR	W	53	56	56
	AN	53	56	56
	BN	54	56	56
	D	54	57	57
	C	56	58	58
	AVG	54	56	56
APR	W	56	59	59
	AN	58	61	61
	BN	58	61	61
	D	60	63	63
	C	61	64	64
	AVG	58	61	61
MAY	W	61	65	65
	AN	62	67	67
	BN	62	67	66
	D	65	68	67
	C	66	69	69
	AVG	63	67	67
JUN	W	65	68	67
	AN	67	70	69
	BN	67	70	69
	D	69	71	71
	C	69	73	73
	AVG	67	70	69
JUL	W	68	70	70
	AN	67	68	69
	BN	67	69	69
	D	68	71	72
	C	72	76	76
	AVG	68	71	71

Alternative 2A: American River at Watt Avenue				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
AUG	W	68	72	72
	AN	69	72	72
	BN	69	72	73
	D	69	73	74
	C	71	77	77
	AVG	69	73	73
SEP	W	66	69	69
	AN	66	70	70
	BN	67	70	71
	D	67	72	72
	C	69	73	74
	AVG	67	71	71
OCT	W	59	67	67
	AN	60	67	67
	BN	59	68	68
	D	60	67	67
	C	61	68	68
	AVG	60	67	67
NOV	W	56	60	60
	AN	56	60	60
	BN	56	60	60
	D	56	59	59
	C	57	60	60
	AVG	56	60	60
DEC	W	50	52	52
	AN	50	52	52
	BN	49	51	52
	D	49	52	51
	C	49	51	51
	AVG	49	52	52

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the American River at Watt Avenue, Year-Round**

Alternative 2A: American River at Watt Avenue			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
JAN	W	3.1 (6.7%)	0 (0.1%)
	AN	2.7 (5.8%)	0 (0.1%)
	BN	2.9 (6.4%)	0 (0%)
	D	2.7 (5.8%)	-0.1 (-0.2%)
	C	2.8 (6.1%)	-0.1 (-0.2%)
	AVG	2.9 (6.2%)	0 (0%)
FEB	W	3.4 (7.1%)	0 (0%)
	AN	3.7 (7.7%)	0 (0%)
	BN	3.2 (6.7%)	0 (0.1%)
	D	3.2 (6.5%)	0 (0%)
	C	3.4 (6.6%)	0.1 (0.2%)
	AVG	3.4 (6.9%)	0 (0%)
MAR	W	3 (5.7%)	0 (0%)
	AN	2.9 (5.4%)	0 (0.1%)
	BN	2.5 (4.7%)	0 (0%)
	D	3.2 (5.8%)	0 (-0.1%)
	C	2.7 (4.8%)	0 (-0.1%)
	AVG	2.9 (5.4%)	0 (0%)
APR	W	2.9 (5.1%)	0 (0%)
	AN	3.1 (5.4%)	0 (0%)
	BN	3 (5.1%)	0 (0%)
	D	2.4 (4%)	-0.2 (-0.2%)
	C	3 (5%)	0.2 (0.3%)
	AVG	2.8 (4.9%)	0 (0%)
MAY	W	4.2 (6.9%)	-0.1 (-0.1%)
	AN	4.4 (7%)	-0.5 (-0.7%)
	BN	3.8 (6.1%)	-0.3 (-0.5%)
	D	2.3 (3.5%)	-0.7 (-1%)
	C	3.4 (5.2%)	0.1 (0.1%)
	AVG	3.6 (5.7%)	-0.3 (-0.4%)
JUN	W	2.6 (4%)	-0.9 (-1.3%)
	AN	1.9 (2.9%)	-1 (-1.5%)
	BN	2.1 (3.2%)	-0.9 (-1.4%)
	D	1.9 (2.8%)	-0.3 (-0.5%)
	C	3.7 (5.3%)	-0.3 (-0.4%)
	AVG	2.4 (3.6%)	-0.7 (-1%)
JUL	W	2.3 (3.4%)	0.2 (0.3%)
	AN	1.4 (2%)	0.5 (0.8%)
	BN	2.2 (3.3%)	0.5 (0.7%)
	D	3.7 (5.4%)	0.8 (1.1%)
	C	3.9 (5.5%)	0 (0%)
	AVG	2.7 (3.9%)	0.4 (0.6%)

Alternative 2A: American River at Watt Avenue			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
AUG	W	4 (6%)	-0.1 (-0.1%)
	AN	3.4 (5%)	0.5 (0.7%)
	BN	3.7 (5.4%)	1.2 (1.6%)
	D	5.3 (7.8%)	0.7 (1%)
	C	5.9 (8.3%)	0.5 (0.6%)
	AVG	4.5 (6.5%)	0.5 (0.7%)
SEP	W	3.2 (4.9%)	0.3 (0.4%)
	AN	3.9 (5.8%)	0.4 (0.6%)
	BN	3.6 (5.4%)	0.3 (0.4%)
	D	4.6 (6.8%)	-0.2 (-0.3%)
	C	4.4 (6.4%)	0.1 (0.1%)
	AVG	3.8 (5.8%)	0.2 (0.2%)
OCT	W	7.6 (12.8%)	-0.2 (-0.3%)
	AN	7.4 (12.4%)	0 (-0.1%)
	BN	8.2 (13.9%)	0 (0%)
	D	6.9 (11.5%)	0.1 (0.1%)
	C	6.4 (10.3%)	0.2 (0.2%)
	AVG	7.3 (12.3%)	0 (0%)
NOV	W	3.4 (6%)	-0.2 (-0.3%)
	AN	3.5 (6.2%)	-0.1 (-0.1%)
	BN	4 (7.3%)	0 (0.1%)
	D	3.3 (6%)	-0.1 (-0.1%)
	C	3.3 (5.8%)	-0.1 (-0.1%)
	AVG	3.5 (6.2%)	-0.1 (-0.2%)
DEC	W	2.4 (4.8%)	-0.1 (-0.2%)
	AN	2.6 (5.1%)	0 (0%)
	BN	2.7 (5.5%)	0.1 (0.1%)
	D	2.4 (4.8%)	-0.1 (-0.2%)
	C	2.5 (5.1%)	0.2 (0.4%)
	AVG	2.5 (5%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.2.17 American River at the Confluence with the**
2 **Sacramento River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
4 **the American River at the Confluence with the Sacramento River, Year-Round**

Alternative 2A: American River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	47	50	50
	AN	46	49	49
	BN	46	48	48
	D	46	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	48	52	52
	AN	48	52	52
	BN	48	51	51
	D	49	52	52
	C	51	55	55
	AVG	49	52	52
MAR	W	53	56	56
	AN	53	56	56
	BN	54	56	56
	D	55	58	58
	C	56	59	59
	AVG	54	57	57
APR	W	57	60	60
	AN	58	61	61
	BN	59	62	62
	D	61	63	63
	C	62	64	64
	AVG	59	62	62
MAY	W	61	66	65
	AN	63	68	67
	BN	63	67	67
	D	66	69	68
	C	67	70	70
	AVG	64	67	67
JUN	W	65	69	68
	AN	68	71	70
	BN	68	71	70
	D	70	72	72
	C	70	74	74
	AVG	68	71	70

Alternative 2A: American River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JUL	W	69	71	71
	AN	68	69	70
	BN	68	70	71
	D	69	72	73
	C	73	76	76
	AVG	69	72	72
AUG	W	69	73	73
	AN	69	73	73
	BN	70	73	74
	D	69	74	75
	C	72	77	78
	AVG	70	74	74
SEP	W	66	69	70
	AN	67	70	71
	BN	67	71	71
	D	68	72	72
	C	69	74	74
	AVG	67	71	71
OCT	W	60	67	67
	AN	60	67	67
	BN	60	67	67
	D	60	66	66
	C	62	67	68
	AVG	60	67	67
NOV	W	56	60	59
	AN	56	60	59
	BN	55	59	59
	D	56	59	59
	C	57	60	60
	AVG	56	59	59
DEC	W	49	52	52
	AN	49	52	52
	BN	48	51	51
	D	49	51	51
	C	48	50	50
	AVG	49	51	51

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

Alternative 2A: American River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
JAN	W	3.1 (6.7%)	0 (0.1%)
	AN	2.8 (5.9%)	0 (0.1%)
	BN	2.9 (6.3%)	0 (0.1%)
	D	2.6 (5.6%)	-0.1 (-0.2%)
	C	2.9 (6.2%)	0 (-0.1%)
	AVG	2.9 (6.2%)	0 (0%)
FEB	W	3.4 (7%)	0 (0%)
	AN	3.7 (7.6%)	0 (0%)
	BN	3.1 (6.5%)	0 (0.1%)
	D	3.1 (6.2%)	0 (-0.1%)
	C	3.2 (6.3%)	0.1 (0.1%)
	AVG	3.3 (6.7%)	0 (0%)
MAR	W	2.9 (5.6%)	0 (0%)
	AN	2.8 (5.3%)	0 (0%)
	BN	2.5 (4.6%)	0 (-0.1%)
	D	3.1 (5.6%)	0 (0%)
	C	2.6 (4.6%)	0 (0%)
	AVG	2.8 (5.2%)	0 (0%)
APR	W	2.8 (5%)	0 (0%)
	AN	3 (5.2%)	0 (0%)
	BN	2.9 (5%)	0 (0%)
	D	2.5 (4%)	-0.1 (-0.2%)
	C	2.8 (4.6%)	0.2 (0.3%)
	AVG	2.8 (4.7%)	0 (0%)
MAY	W	4.2 (6.9%)	-0.1 (-0.2%)
	AN	4.4 (7%)	-0.5 (-0.7%)
	BN	3.7 (5.9%)	-0.4 (-0.6%)
	D	2.3 (3.5%)	-0.6 (-0.9%)
	C	3.2 (4.8%)	0 (0.1%)
	AVG	3.6 (5.7%)	-0.3 (-0.4%)
JUN	W	2.7 (4.2%)	-0.9 (-1.4%)
	AN	1.9 (2.9%)	-1.1 (-1.5%)
	BN	2.1 (3.2%)	-1 (-1.4%)
	D	2.1 (3.1%)	-0.4 (-0.5%)
	C	3.6 (5.2%)	-0.2 (-0.3%)
	AVG	2.5 (3.7%)	-0.7 (-1%)
JUL	W	2.6 (3.8%)	0.3 (0.4%)
	AN	1.6 (2.4%)	0.6 (0.8%)
	BN	2.6 (3.8%)	0.6 (0.8%)
	D	3.9 (5.7%)	0.8 (1.1%)
	C	3.6 (5%)	-0.1 (-0.2%)
	AVG	2.9 (4.2%)	0.4 (0.6%)

Alternative 2A: American River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	4.5 (6.5%)	-0.1 (-0.1%)
	AN	3.8 (5.4%)	0.4 (0.6%)
	BN	4.1 (5.8%)	1.2 (1.6%)
	D	5.5 (7.9%)	0.7 (1%)
	C	5.5 (7.6%)	0.4 (0.5%)
	AVG	4.7 (6.7%)	0.4 (0.6%)
SEP	W	3.4 (5.2%)	0.3 (0.4%)
	AN	4 (6%)	0.4 (0.5%)
	BN	3.9 (5.8%)	0.3 (0.4%)
	D	4.5 (6.7%)	-0.1 (-0.2%)
	C	4.2 (6%)	0.1 (0.1%)
	AVG	4 (5.9%)	0.2 (0.3%)
OCT	W	6.8 (11.4%)	-0.2 (-0.2%)
	AN	6.8 (11.2%)	-0.1 (-0.1%)
	BN	7.4 (12.4%)	0 (0%)
	D	6.2 (10.2%)	0.1 (0.1%)
	C	5.7 (9.3%)	0.2 (0.3%)
	AVG	6.6 (11%)	0 (0%)
NOV	W	3.2 (5.8%)	-0.2 (-0.3%)
	AN	3.4 (6.1%)	-0.1 (-0.1%)
	BN	3.8 (6.9%)	0 (0%)
	D	3.1 (5.7%)	-0.1 (-0.1%)
	C	3.2 (5.7%)	0 (0%)
	AVG	3.3 (6%)	-0.1 (-0.2%)
DEC	W	2.3 (4.7%)	-0.1 (-0.2%)
	AN	2.5 (5.1%)	0 (0%)
	BN	2.7 (5.5%)	0.1 (0.1%)
	D	2.3 (4.7%)	-0.1 (-0.1%)
	C	2.4 (5.1%)	0.3 (0.5%)
	AVG	2.4 (5%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.2.18 Stanislaus River at Knights Ferry**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
3 **the Stanislaus River at Knights Ferry, Year-Round**

Alternative 2A: Stanislaus River at Knights Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	48	51	51
	C	49	52	52
	AVG	49	52	52
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	49	52	52
	AN	49	53	53
	BN	51	54	54
	D	51	54	54
	C	52	55	55
	AVG	50	54	54
APR	W	50	53	53
	AN	50	54	54
	BN	51	55	55
	D	52	55	55
	C	53	57	57
	AVG	51	54	54
MAY	W	51	55	55
	AN	53	56	56
	BN	54	57	57
	D	55	58	58
	C	56	59	59
	AVG	53	57	57
JUN	W	54	56	56
	AN	56	59	59
	BN	58	61	61
	D	59	63	63
	C	60	64	64
	AVG	57	60	60
JUL	W	57	59	59
	AN	59	62	62
	BN	60	63	63
	D	61	65	65
	C	62	66	66
	AVG	59	63	63

Alternative 2A: Stanislaus River at Knights Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
AUG	W	58	61	61
	AN	60	63	63
	BN	60	64	64
	D	61	65	65
	C	62	67	67
	AVG	60	64	64
SEP	W	59	62	62
	AN	60	64	64
	BN	61	64	64
	D	62	65	65
	C	63	67	67
	AVG	61	64	64
OCT	W	59	62	62
	AN	59	62	62
	BN	59	62	62
	D	58	62	62
	C	60	64	64
	AVG	59	63	63
NOV	W	56	59	59
	AN	56	59	59
	BN	56	59	59
	D	56	59	59
	C	57	61	61
	AVG	56	60	60
DEC	W	52	55	55
	AN	52	55	55
	BN	51	54	54
	D	51	54	54
	C	52	55	55
	AVG	51	55	55

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Knights Ferry, Year-Round**

Alternative 2A: Stanislaus River at Knights Ferry			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLТ	NAA vs. A2A_LLТ
JAN	W	3.1 (6.3%)	0 (0%)
	AN	3.1 (6.4%)	0 (0%)
	BN	3.1 (6.4%)	0 (0%)
	D	3 (6.3%)	0 (0%)
	C	3.1 (6.2%)	0 (0%)
	AVG	3.1 (6.3%)	0 (0%)
FEB	W	3.1 (6.4%)	0 (0%)
	AN	3.2 (6.5%)	0 (0%)
	BN	3 (6.2%)	0 (0%)
	D	3.2 (6.5%)	0 (0%)
	C	3.1 (6.2%)	0 (0%)
	AVG	3.1 (6.4%)	0 (0%)
MAR	W	3.2 (6.6%)	0 (0%)
	AN	3.6 (7.3%)	0 (0%)
	BN	3.1 (6.1%)	0 (0%)
	D	3.3 (6.5%)	0 (0%)
	C	3 (5.8%)	0 (0%)
	AVG	3.3 (6.5%)	0 (0%)
APR	W	3.1 (6.2%)	0 (0%)
	AN	3.3 (6.6%)	0 (0%)
	BN	3.4 (6.6%)	0 (0%)
	D	3.5 (6.7%)	0 (0%)
	C	3.6 (6.7%)	0 (0%)
	AVG	3.3 (6.5%)	0 (0%)
MAY	W	3 (5.9%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)
	BN	3.5 (6.5%)	0 (0%)
	D	3.4 (6.2%)	0 (0%)
	C	3.3 (5.9%)	0 (0%)
	AVG	3.2 (6.1%)	0 (0%)
JUN	W	2.6 (4.8%)	0 (0%)
	AN	3.3 (6%)	0 (0%)
	BN	3.6 (6.3%)	0 (0%)
	D	3.8 (6.5%)	0 (0%)
	C	4.1 (6.9%)	0 (0%)
	AVG	3.4 (6%)	0 (0%)
JUL	W	2.5 (4.4%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)
	BN	3.5 (5.9%)	0 (0%)
	D	3.7 (6.1%)	0 (0%)
	C	4.1 (6.6%)	0 (0%)
	AVG	3.3 (5.6%)	0 (0%)

Alternative 2A: Stanislaus River at Knights Ferry			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	3.4 (5.8%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)
	BN	3.5 (5.8%)	0 (0%)
	D	3.6 (5.8%)	0 (0%)
	C	4.3 (6.9%)	0 (0%)
	AVG	3.6 (6%)	0 (0%)
SEP	W	3.5 (6%)	0 (0%)
	AN	3.6 (6%)	0 (0%)
	BN	3.6 (5.9%)	0 (0%)
	D	3.7 (6%)	0 (0%)
	C	4 (6.3%)	0.1 (0.1%)
	AVG	3.7 (6%)	0 (0%)
OCT	W	3.5 (5.9%)	0 (0%)
	AN	3 (5.1%)	0 (0%)
	BN	3.3 (5.6%)	0 (0%)
	D	3.4 (5.9%)	0 (0%)
	C	3.7 (6.1%)	0 (0%)
	AVG	3.4 (5.7%)	0 (0%)
NOV	W	3.3 (5.8%)	0 (0%)
	AN	3.1 (5.5%)	0 (0%)
	BN	3.3 (5.8%)	0 (0%)
	D	3.4 (6%)	0 (0%)
	C	3.5 (6%)	0 (0%)
	AVG	3.3 (5.8%)	0 (0%)
DEC	W	3.3 (6.4%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)
	BN	3.3 (6.4%)	0 (0%)
	D	3.2 (6.2%)	0 (0%)
	C	3.3 (6.4%)	0 (0%)
	AVG	3.2 (6.3%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.2.19 Stanislaus River at Orange Blossom Bridge**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
3 **the Stanislaus River at Orange Blossom Bridge, Year-Round**

Alternative 2A: Stanislaus River at Orange Blossom Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	48	51	51
	AN	48	51	51
	BN	48	51	51
	D	47	50	50
	C	48	51	51
	AVG	48	51	51
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	49	53	53
	AN	50	54	54
	BN	52	55	55
	D	52	56	56
	C	53	56	56
	AVG	51	54	54
APR	W	50	53	53
	AN	51	54	54
	BN	52	56	56
	D	53	56	56
	C	55	58	58
	AVG	52	55	55
MAY	W	53	56	56
	AN	54	57	57
	BN	55	59	59
	D	56	60	60
	C	58	61	61
	AVG	55	58	58
JUN	W	56	58	58
	AN	58	62	62
	BN	60	64	64
	D	62	66	66
	C	63	67	67
	AVG	59	63	63
JUL	W	60	62	62
	AN	63	66	66
	BN	63	67	67
	D	64	68	68
	C	65	69	69
	AVG	63	66	66

Alternative 2A: Stanislaus River at Orange Blossom Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LLT
AUG	W	60	64	64
	AN	63	66	66
	BN	63	66	66
	D	64	68	68
	C	65	69	69
	AVG	63	66	66
SEP	W	60	64	64
	AN	63	66	66
	BN	63	67	67
	D	63	67	67
	C	64	68	68
	AVG	62	66	66
OCT	W	59	62	62
	AN	59	62	62
	BN	59	62	62
	D	59	62	62
	C	60	64	64
	AVG	59	62	62
NOV	W	55	58	58
	AN	55	58	58
	BN	55	58	58
	D	55	58	58
	C	56	59	59
	AVG	55	58	58
DEC	W	50	54	54
	AN	50	53	53
	BN	49	53	53
	D	50	52	52
	C	50	53	53
	AVG	50	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
 2 **Water Temperatures in the Stanislaus River at Orange Blossom Bridge, Year-Round**

Alternative 2A: Stanislaus River at Orange Blossom Bridge			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
JAN	W	3 (6.2%)	0 (0%)
	AN	3 (6.3%)	0 (0%)
	BN	2.9 (6.1%)	0 (0%)
	D	2.8 (5.9%)	0 (0%)
	C	2.8 (5.8%)	0 (0%)
	AVG	2.9 (6.1%)	0 (0%)
FEB	W	3.1 (6.3%)	0 (0%)
	AN	3.1 (6.3%)	0 (0%)
	BN	3 (6%)	0 (0%)
	D	3.2 (6.5%)	0 (0%)
	C	3.2 (6.3%)	0 (0%)
	AVG	3.1 (6.3%)	0 (0%)
MAR	W	3.2 (6.4%)	0 (0%)
	AN	3.7 (7.3%)	0 (0%)
	BN	3 (5.8%)	0 (0%)
	D	3.4 (6.6%)	0 (0%)
	C	3.1 (5.8%)	0 (0%)
	AVG	3.3 (6.4%)	0 (0%)
APR	W	3.1 (6.1%)	0 (0%)
	AN	3.3 (6.5%)	0 (0%)
	BN	3.5 (6.7%)	0 (0%)
	D	3.6 (6.8%)	0 (0%)
	C	3.6 (6.6%)	0 (0%)
	AVG	3.4 (6.5%)	0 (0%)
MAY	W	3.2 (6%)	0 (0%)
	AN	3.3 (6%)	0 (0%)
	BN	3.9 (7.1%)	0 (0%)
	D	3.6 (6.5%)	0 (0%)
	C	3.5 (6%)	0 (0%)
	AVG	3.4 (6.2%)	0 (0%)
JUN	W	2.3 (4.1%)	0 (0%)
	AN	3.8 (6.6%)	0 (0%)
	BN	3.9 (6.5%)	0 (0%)
	D	4.3 (6.9%)	0 (0%)
	C	4.1 (6.6%)	0.1 (0.1%)
	AVG	3.5 (5.9%)	0 (0%)
JUL	W	2.1 (3.5%)	0 (0%)
	AN	3.6 (5.7%)	0 (0%)
	BN	3.5 (5.6%)	0 (0%)
	D	3.8 (5.9%)	0 (0%)
	C	4 (6.2%)	0 (0%)
	AVG	3.2 (5.2%)	0 (0%)

Alternative 2A: Stanislaus River at Orange Blossom Bridge			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL	NAA vs. A2A_LL
AUG	W	3.9 (6.4%)	0 (0%)
	AN	3.5 (5.7%)	0 (0%)
	BN	3.5 (5.5%)	0 (0%)
	D	3.5 (5.5%)	0 (0%)
	C	4.2 (6.5%)	0 (0%)
	AVG	3.7 (6%)	0 (0%)
SEP	W	3.8 (6.3%)	0 (0%)
	AN	3.9 (6.2%)	0 (0%)
	BN	3.7 (6%)	0 (0%)
	D	3.7 (5.9%)	0 (0%)
	C	3.8 (6%)	-0.1 (-0.2%)
	AVG	3.8 (6.1%)	0 (0%)
OCT	W	3.3 (5.6%)	0 (0%)
	AN	3 (5.1%)	0 (0%)
	BN	3.2 (5.4%)	0 (0%)
	D	3.4 (5.7%)	0 (0%)
	C	3.5 (5.9%)	0 (0%)
	AVG	3.3 (5.5%)	0 (0%)
NOV	W	3.1 (5.7%)	0 (0%)
	AN	3 (5.5%)	0 (0%)
	BN	3.2 (5.8%)	0 (0%)
	D	3.2 (5.9%)	0 (0%)
	C	3.2 (5.7%)	0 (0%)
	AVG	3.1 (5.7%)	0 (0%)
DEC	W	3.2 (6.4%)	0 (0%)
	AN	2.9 (5.9%)	0 (0%)
	BN	3.3 (6.6%)	0 (0%)
	D	3 (6%)	0 (0%)
	C	3.1 (6.2%)	0 (0%)
	AVG	3.1 (6.2%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.2.20 Stanislaus River at Riverbank**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
3 **the Stanislaus River at Riverbank, Year-Round**

Alternative 2A: Stanislaus River at Riverbank				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	45	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	50	53	53
	BN	50	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	51	54	54
	AN	52	55	55
	BN	53	56	56
	D	54	57	57
	C	54	57	57
	AVG	52	56	56
APR	W	52	55	55
	AN	53	56	56
	BN	54	57	57
	D	54	58	58
	C	57	60	60
	AVG	54	57	57
MAY	W	56	59	59
	AN	57	60	60
	BN	58	62	62
	D	59	62	62
	C	60	64	64
	AVG	58	61	61
JUN	W	60	62	62
	AN	62	66	66
	BN	64	68	68
	D	66	70	70
	C	66	70	70
	AVG	63	67	67
JUL	W	65	67	67
	AN	68	71	71
	BN	68	71	71
	D	68	72	72
	C	68	72	72
	AVG	67	70	70

Alternative 2A: Stanislaus River at Riverbank				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LLТ
AUG	W	65	69	69
	AN	67	70	70
	BN	67	70	70
	D	68	71	71
	C	67	71	71
	AVG	66	70	70
SEP	W	64	67	67
	AN	66	70	70
	BN	66	69	69
	D	66	70	70
	C	66	70	69
	AVG	65	69	69
OCT	W	59	63	63
	AN	59	62	62
	BN	59	62	62
	D	59	62	62
	C	61	64	64
	AVG	60	63	63
NOV	W	53	56	56
	AN	53	56	56
	BN	53	56	56
	D	53	56	56
	C	54	57	57
	AVG	53	56	56
DEC	W	48	51	51
	AN	48	50	50
	BN	47	50	50
	D	47	50	50
	C	47	50	50
	AVG	47	50	50

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Riverbank, Year-Round**

Alternative 2A: Stanislaus River at Riverbank			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
JAN	W	2.9 (6.3%)	0 (0%)
	AN	3 (6.4%)	0 (0%)
	BN	2.8 (6%)	0 (0%)
	D	2.5 (5.6%)	0 (0%)
	C	2.7 (5.8%)	0 (0%)
	AVG	2.8 (6%)	0 (0%)
FEB	W	2.9 (5.9%)	0 (0%)
	AN	2.9 (5.8%)	0 (0%)
	BN	2.7 (5.5%)	0 (0%)
	D	3 (6.1%)	0 (0%)
	C	3.1 (6%)	0 (0%)
	AVG	2.9 (5.9%)	0 (0%)
MAR	W	3 (5.9%)	0 (0%)
	AN	3.6 (7%)	0 (0%)
	BN	2.8 (5.3%)	0 (0%)
	D	3.4 (6.4%)	0 (0%)
	C	3 (5.6%)	0 (0%)
	AVG	3.2 (6%)	0 (0%)
APR	W	3 (5.7%)	0 (0%)
	AN	3.2 (6.1%)	0 (0%)
	BN	3.6 (6.6%)	0 (0%)
	D	3.6 (6.7%)	0 (0%)
	C	3.6 (6.3%)	0 (0%)
	AVG	3.3 (6.2%)	0 (0%)
MAY	W	3.2 (5.8%)	0 (0%)
	AN	3.4 (6%)	0 (0%)
	BN	4.3 (7.4%)	0 (0%)
	D	3.9 (6.6%)	0 (0%)
	C	3.5 (5.8%)	0 (0%)
	AVG	3.6 (6.2%)	0 (0%)
JUN	W	2 (3.4%)	0 (0%)
	AN	4 (6.4%)	0 (0%)
	BN	3.7 (5.7%)	0 (0%)
	D	4 (6.1%)	0 (0%)
	C	3.7 (5.6%)	0.1 (0.1%)
	AVG	3.3 (5.2%)	0 (0%)
JUL	W	1.8 (2.8%)	0 (0%)
	AN	3.3 (4.8%)	0 (0%)
	BN	3.1 (4.6%)	0 (0%)
	D	3.6 (5.3%)	0 (0%)
	C	3.5 (5.1%)	0 (0%)
	AVG	2.9 (4.3%)	0 (0%)

Alternative 2A: Stanislaus River at Riverbank			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	4.1 (6.4%)	0 (0%)
	AN	3.4 (5.1%)	0 (0%)
	BN	3.2 (4.8%)	0 (0%)
	D	3.3 (4.9%)	0 (0%)
	C	3.8 (5.6%)	0 (0%)
	AVG	3.6 (5.5%)	0 (0%)
SEP	W	3.9 (6.2%)	0 (0%)
	AN	3.9 (5.9%)	0 (0%)
	BN	3.7 (5.7%)	0 (0%)
	D	3.7 (5.6%)	0 (0%)
	C	3.6 (5.5%)	-0.2 (-0.2%)
	AVG	3.8 (5.8%)	0 (0%)
OCT	W	3.1 (5.3%)	0 (0%)
	AN	2.9 (4.9%)	0 (0%)
	BN	2.9 (4.9%)	0 (0%)
	D	3.1 (5.2%)	0 (0%)
	C	3.3 (5.5%)	0 (0%)
	AVG	3.1 (5.2%)	0 (0%)
NOV	W	3 (5.7%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)
	BN	3.1 (5.8%)	0 (0%)
	D	3.1 (5.8%)	0 (0%)
	C	3 (5.6%)	0 (0%)
	AVG	3.1 (5.7%)	0 (0%)
DEC	W	3.1 (6.5%)	0 (0%)
	AN	2.9 (6.1%)	0 (0%)
	BN	3.3 (7%)	0 (0%)
	D	2.8 (5.9%)	0 (0%)
	C	2.9 (6.2%)	0 (0%)
	AVG	3 (6.4%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.2.21 Stanislaus River at the Confluence with the San**
2 **Joaquin River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 2A Model Scenarios in**
4 **the Stanislaus River at the Confluence with the San Joaquin River, Year-Round**

Alternative 2A: Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JAN	W	46	49	49
	AN	46	49	49
	BN	46	49	49
	D	45	47	47
	C	45	48	48
	AVG	46	48	48
FEB	W	50	53	53
	AN	50	53	53
	BN	50	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	52	55	55
	AN	53	56	56
	BN	54	57	57
	D	55	58	58
	C	55	58	58
	AVG	54	56	56
APR	W	54	57	57
	AN	55	58	58
	BN	56	60	60
	D	57	60	60
	C	59	62	62
	AVG	56	59	59
MAY	W	59	62	62
	AN	60	63	63
	BN	60	64	64
	D	61	65	65
	C	63	66	66
	AVG	60	64	64
JUN	W	62	65	65
	AN	65	69	69
	BN	66	70	70
	D	68	72	72
	C	68	71	71
	AVG	65	69	69

Alternative 2A: Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT	EXISTING CONDITIONS	NAA	A2A_LL1
JUL	W	68	70	70
	AN	70	73	73
	BN	70	73	73
	D	70	74	74
	C	70	73	73
	AVG	69	72	72
AUG	W	67	71	71
	AN	69	72	72
	BN	68	71	71
	D	69	72	72
	C	69	72	72
	AVG	68	72	72
SEP	W	65	69	69
	AN	67	71	71
	BN	67	70	70
	D	67	70	70
	C	67	70	70
	AVG	66	70	70
OCT	W	60	63	63
	AN	60	62	62
	BN	59	62	62
	D	59	62	62
	C	61	64	64
	AVG	60	63	63
NOV	W	53	56	56
	AN	52	55	55
	BN	52	55	55
	D	52	55	55
	C	53	56	56
	AVG	52	55	55
DEC	W	47	50	50
	AN	46	49	49
	BN	45	49	49
	D	45	48	48
	C	45	48	48
	AVG	46	49	49

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

Alternative 2A: Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT	EXISTING CONDITIONS vs. A2A_LL1	NAA vs. A2A_LL1
JAN	W	2.9 (6.3%)	0 (0%)
	AN	2.9 (6.4%)	0 (0%)
	BN	2.8 (6.1%)	0 (0%)
	D	2.5 (5.7%)	0 (0%)
	C	2.8 (6.1%)	0 (0%)
	AVG	2.8 (6.2%)	0 (0%)
FEB	W	2.8 (5.7%)	0 (0%)
	AN	2.8 (5.6%)	0 (0%)
	BN	2.6 (5.2%)	0 (0%)
	D	2.8 (5.6%)	0 (0%)
	C	2.9 (5.6%)	0 (0%)
	AVG	2.8 (5.6%)	0 (0%)
MAR	W	2.9 (5.5%)	0 (0%)
	AN	3.3 (6.3%)	0 (0%)
	BN	2.6 (4.9%)	0 (0%)
	D	3.2 (5.8%)	0 (0%)
	C	2.8 (5.1%)	0 (0%)
	AVG	3 (5.5%)	0 (0%)
APR	W	2.8 (5.2%)	0 (0%)
	AN	3.1 (5.6%)	0 (0%)
	BN	3.4 (6.1%)	0 (0%)
	D	3.5 (6.1%)	0 (0%)
	C	3.2 (5.5%)	0 (0%)
	AVG	3.2 (5.6%)	0 (0%)
MAY	W	3.1 (5.3%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)
	BN	4.1 (6.8%)	0 (0%)
	D	3.7 (6%)	0 (0%)
	C	3.2 (5.1%)	0 (0%)
	AVG	3.4 (5.7%)	0 (0%)
JUN	W	2.3 (3.6%)	0 (0%)
	AN	3.7 (5.8%)	0 (0%)
	BN	3.3 (5.1%)	0 (0%)
	D	3.4 (5%)	0 (0%)
	C	3.3 (4.8%)	0 (0%)
	AVG	3.1 (4.7%)	0 (0%)
JUL	W	2.3 (3.3%)	0 (0%)
	AN	3 (4.2%)	0 (0%)
	BN	2.8 (4%)	0 (0%)
	D	3.2 (4.5%)	0 (0%)
	C	3.2 (4.5%)	0 (0%)
	AVG	2.8 (4%)	0 (0%)

Alternative 2A: Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT	EXISTING CONDITIONS vs. A2A_LLT	NAA vs. A2A_LLT
AUG	W	4.1 (6.1%)	0 (0%)
	AN	3.2 (4.7%)	0 (0%)
	BN	3.1 (4.5%)	0 (0%)
	D	3.1 (4.5%)	0 (0%)
	C	3.6 (5.2%)	0 (0%)
	AVG	3.5 (5.1%)	0 (0%)
SEP	W	3.9 (6%)	0 (0%)
	AN	3.7 (5.6%)	0 (0%)
	BN	3.7 (5.5%)	0 (0%)
	D	3.7 (5.5%)	0 (0%)
	C	3.5 (5.3%)	-0.2 (-0.2%)
	AVG	3.7 (5.6%)	0 (0%)
OCT	W	3 (5%)	0 (0%)
	AN	2.8 (4.8%)	0 (0%)
	BN	2.7 (4.5%)	0 (0%)
	D	2.9 (4.9%)	0 (0%)
	C	3.2 (5.3%)	0 (0%)
	AVG	2.9 (4.9%)	0 (0%)
NOV	W	3 (5.8%)	0 (0%)
	AN	3.2 (6%)	0 (0%)
	BN	3.1 (5.9%)	0 (0%)
	D	3.1 (5.9%)	0 (0%)
	C	2.9 (5.6%)	0 (0%)
	AVG	3.1 (5.8%)	0 (0%)
DEC	W	3.1 (6.6%)	0 (0.1%)
	AN	2.9 (6.2%)	0 (0%)
	BN	3.2 (7.1%)	0 (0%)
	D	2.8 (6.1%)	0 (0%)
	C	2.9 (6.4%)	0 (0%)
	AVG	3 (6.5%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.3 Alternative 3**

2 **11D.3.1 Sacramento River at Keswick**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
4 **Sacramento River at Keswick, Year-Round**

Alternative 3: Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	46	47	47
	AN	46	48	48
	BN	47	48	48
	D	47	48	48
	C	47	48	48
	AVG	46	48	48
FEB	W	45	47	47
	AN	46	47	47
	BN	46	47	47
	D	46	48	48
	C	46	48	48
	AVG	46	47	47
MAR	W	46	47	47
	AN	46	48	48
	BN	47	48	48
	D	47	49	49
	C	48	50	50
	AVG	47	48	48
APR	W	47	49	49
	AN	48	50	50
	BN	48	50	50
	D	48	50	50
	C	49	51	51
	AVG	48	50	50
MAY	W	49	50	50
	AN	49	51	51
	BN	49	51	51
	D	49	51	51
	C	51	53	53
	AVG	49	51	51
JUN	W	50	51	51
	AN	50	51	51
	BN	50	51	51
	D	50	52	52
	C	53	55	55
	AVG	50	52	52

Alternative 3: Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL
JUL	W	51	52	52
	AN	51	52	52
	BN	51	52	53
	D	51	54	54
	C	54	59	59
	AVG	51	53	54
AUG	W	52	54	54
	AN	52	54	55
	BN	52	54	55
	D	53	56	56
	C	57	64	64
	AVG	53	56	56
SEP	W	53	55	56
	AN	54	56	56
	BN	54	56	57
	D	55	59	59
	C	60	66	66
	AVG	55	58	58
OCT	W	54	57	57
	AN	54	57	57
	BN	54	57	58
	D	55	58	58
	C	56	60	60
	AVG	54	58	58
NOV	W	53	55	55
	AN	52	55	55
	BN	53	55	55
	D	53	56	56
	C	54	56	56
	AVG	53	55	55
DEC	W	49	50	50
	AN	49	51	51
	BN	50	52	52
	D	50	52	52
	C	51	52	52
	AVG	50	51	51

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

Alternative 3: Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS	
		vs. A3_LLT	NAA vs. A3_LLT
JAN	W	1.3 (2.7%)	-0.1 (-0.2%)
	AN	1.4 (3%)	0 (-0.1%)
	BN	1.5 (3.3%)	-0.1 (-0.3%)
	D	1.5 (3.2%)	-0.1 (-0.3%)
	C	1.6 (3.4%)	-0.2 (-0.4%)
	AVG	1.4 (3.1%)	-0.1 (-0.2%)
FEB	W	1.5 (3.4%)	0 (0%)
	AN	1.6 (3.5%)	0 (0%)
	BN	1.4 (3.1%)	-0.1 (-0.2%)
	D	1.6 (3.5%)	-0.1 (-0.2%)
	C	1.8 (3.8%)	0 (-0.1%)
	AVG	1.6 (3.5%)	0 (-0.1%)
MAR	W	1.5 (3.3%)	0 (0.1%)
	AN	1.7 (3.6%)	0.1 (0.1%)
	BN	1.6 (3.4%)	0 (0%)
	D	1.6 (3.5%)	0 (-0.1%)
	C	1.7 (3.6%)	-0.2 (-0.4%)
	AVG	1.6 (3.4%)	0 (0%)
APR	W	1.7 (3.6%)	0 (0.1%)
	AN	1.7 (3.5%)	0 (-0.1%)
	BN	1.5 (3.1%)	0.1 (0.3%)
	D	1.4 (2.9%)	-0.1 (-0.3%)
	C	1.8 (3.8%)	-0.2 (-0.5%)
	AVG	1.6 (3.4%)	0 (-0.1%)
MAY	W	1.6 (3.2%)	-0.2 (-0.3%)
	AN	1.3 (2.7%)	0 (0%)
	BN	1.4 (2.8%)	0 (0.1%)
	D	1.3 (2.7%)	-0.2 (-0.4%)
	C	2 (3.9%)	0 (-0.1%)
	AVG	1.5 (3.1%)	-0.1 (-0.2%)
JUN	W	0.8 (1.7%)	-0.1 (-0.2%)
	AN	1.1 (2.2%)	-0.1 (-0.3%)
	BN	1.4 (2.9%)	0.2 (0.4%)
	D	2.2 (4.3%)	0.3 (0.6%)
	C	2.3 (4.3%)	0.2 (0.3%)
	AVG	1.5 (2.9%)	0.1 (0.1%)
JUL	W	1.3 (2.5%)	0.4 (0.7%)
	AN	1.7 (3.3%)	0.3 (0.6%)
	BN	2.3 (4.5%)	0.9 (1.8%)
	D	2.9 (5.6%)	0.5 (1%)
	C	5.3 (9.7%)	0.1 (0.2%)
	AVG	2.4 (4.8%)	0.4 (0.8%)

Alternative 3: Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A3_LLT	NAA vs. A3_LLT
AUG	W	2.3 (4.4%)	0.4 (0.7%)
	AN	2.4 (4.5%)	0.5 (0.9%)
	BN	3.1 (6%)	0.7 (1.3%)
	D	3.5 (6.6%)	0.5 (0.8%)
	C	7.9 (14%)	0.4 (0.6%)
	AVG	3.5 (6.7%)	0.5 (0.8%)
SEP	W	2.4 (4.6%)	0.8 (1.4%)
	AN	2.8 (5.1%)	0.5 (0.9%)
	BN	3.5 (6.4%)	0.8 (1.4%)
	D	4.5 (8.2%)	0.1 (0.1%)
	C	5.9 (9.9%)	0 (0%)
	AVG	3.6 (6.6%)	0.5 (0.8%)
OCT	W	2.8 (5.2%)	-0.2 (-0.4%)
	AN	2.9 (5.4%)	0.1 (0.2%)
	BN	3.4 (6.3%)	0.4 (0.6%)
	D	3.5 (6.3%)	0 (-0.1%)
	C	3.4 (6.1%)	-0.3 (-0.6%)
	AVG	3.2 (5.8%)	-0.1 (-0.1%)
NOV	W	2.1 (4.1%)	-0.1 (-0.2%)
	AN	2.4 (4.5%)	0.2 (0.3%)
	BN	2.4 (4.6%)	0 (0%)
	D	2.4 (4.5%)	0.1 (0.1%)
	C	2.4 (4.4%)	-0.1 (-0.2%)
	AVG	2.3 (4.4%)	0 (0%)
DEC	W	1.2 (2.4%)	-0.1 (-0.1%)
	AN	1.6 (3.2%)	-0.2 (-0.4%)
	BN	1.8 (3.6%)	-0.2 (-0.4%)
	D	1.7 (3.5%)	-0.2 (-0.4%)
	C	1.8 (3.6%)	-0.1 (-0.2%)
	AVG	1.6 (3.1%)	-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.

1 **11D.3.2 Sacramento River at Jelly’s Ferry**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
3 **Sacramento River at Jelly’s Ferry, Year-Round**

Alternative 3: Sacramento River at Jelly’s Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	45	46	47
	D	45	47	47
	C	45	47	47
	AVG	45	47	47
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	47
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	49	50
	AN	49	51	51
	BN	49	51	51
	D	50	51	51
	C	50	52	52
	AVG	49	51	51
APR	W	51	53	53
	AN	53	55	54
	BN	53	54	54
	D	52	54	54
	C	52	54	54
	AVG	52	54	54
MAY	W	54	57	57
	AN	55	57	56
	BN	54	57	56
	D	54	56	55
	C	55	57	57
	AVG	54	57	56
JUN	W	55	56	56
	AN	55	56	55
	BN	54	56	56
	D	54	56	56
	C	56	58	58
	AVG	55	56	56
JUL	W	56	57	57
	AN	55	56	56
	BN	55	56	57
	D	55	57	58
	C	57	62	63
	AVG	55	57	58

Alternative 3: Sacramento River at Jelly's Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL
AUG	W	56	59	59
	AN	56	58	59
	BN	56	58	59
	D	56	59	60
	C	59	67	67
	AVG	57	60	60
SEP	W	56	57	59
	AN	57	59	60
	BN	57	60	61
	D	58	63	63
	C	61	67	67
	AVG	58	61	61
OCT	W	54	57	57
	AN	54	57	57
	BN	55	57	58
	D	55	58	58
	C	56	60	59
	AVG	55	58	58
NOV	W	51	53	53
	AN	51	53	53
	BN	51	54	53
	D	51	54	53
	C	52	55	54
	AVG	51	53	53
DEC	W	47	48	48
	AN	47	48	48
	BN	47	49	49
	D	47	49	49
	C	47	49	49
	AVG	47	48	49

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Jelly’s Ferry, Year-Round**

Alternative 3: Sacramento River at Jelly’s Ferry			
Month	WYT	EXISTING CONDITIONS	
		vs. A3_LL1	NAA vs. A3_LL1
JAN	W	1.4 (3.2%)	0 (0%)
	AN	1.5 (3.4%)	0 (0.1%)
	BN	1.8 (3.9%)	0.1 (0.1%)
	D	1.9 (4.1%)	0 (0%)
	C	1.9 (4.2%)	-0.3 (-0.6%)
	AVG	1.7 (3.7%)	0 (0%)
FEB	W	1.6 (3.4%)	0 (0%)
	AN	1.6 (3.4%)	0 (0%)
	BN	1.6 (3.5%)	0 (-0.1%)
	D	1.8 (3.9%)	0 (-0.1%)
	C	2 (4.2%)	0 (0%)
	AVG	1.7 (3.7%)	0 (0%)
MAR	W	1.5 (3%)	0 (0%)
	AN	1.6 (3.2%)	0 (0.1%)
	BN	1.6 (3.3%)	-0.1 (-0.2%)
	D	1.6 (3.2%)	-0.1 (-0.1%)
	C	1.6 (3.2%)	-0.2 (-0.4%)
	AVG	1.6 (3.2%)	0 (-0.1%)
APR	W	1.8 (3.4%)	0 (0%)
	AN	1.7 (3.2%)	-0.2 (-0.4%)
	BN	1.6 (3.1%)	-0.1 (-0.2%)
	D	1.6 (3%)	-0.3 (-0.5%)
	C	1.8 (3.5%)	-0.2 (-0.4%)
	AVG	1.7 (3.3%)	-0.1 (-0.3%)
MAY	W	2.5 (4.6%)	-0.4 (-0.8%)
	AN	1.2 (2.2%)	-0.4 (-0.8%)
	BN	1.7 (3.1%)	-0.5 (-0.8%)
	D	1.1 (2.1%)	-0.7 (-1.2%)
	C	1.8 (3.3%)	-0.1 (-0.2%)
	AVG	1.8 (3.3%)	-0.4 (-0.8%)
JUN	W	0.8 (1.5%)	-0.6 (-1%)
	AN	0.7 (1.4%)	-0.6 (-1.1%)
	BN	1.6 (2.9%)	0 (0%)
	D	2 (3.8%)	0.1 (0.2%)
	C	2 (3.6%)	0 (0%)
	AVG	1.4 (2.5%)	-0.2 (-0.4%)
JUL	W	1.2 (2.2%)	0.2 (0.4%)
	AN	1.7 (3.2%)	0.3 (0.6%)
	BN	2.6 (4.7%)	0.9 (1.6%)
	D	3.1 (5.7%)	0.7 (1.3%)
	C	5.2 (9%)	0.2 (0.2%)
	AVG	2.5 (4.6%)	0.5 (0.8%)

Alternative 3: Sacramento River at Jelly's Ferry			
Month	WYT	EXISTING CONDITIONS vs. A3_LLT	NAA vs. A3_LLT
AUG	W	2.8 (5.1%)	0.3 (0.5%)
	AN	2.6 (4.6%)	0.7 (1.2%)
	BN	3.5 (6.3%)	0.9 (1.5%)
	D	4.1 (7.3%)	1 (1.7%)
	C	7.6 (12.8%)	0.4 (0.7%)
	AVG	3.9 (6.9%)	0.6 (1.1%)
SEP	W	3.3 (5.9%)	2.1 (3.6%)
	AN	2.7 (4.8%)	1.4 (2.4%)
	BN	3.6 (6.3%)	0.7 (1.2%)
	D	4.8 (8.4%)	0 (0%)
	C	5.3 (8.6%)	-0.1 (-0.1%)
	AVG	3.9 (6.8%)	1 (1.6%)
OCT	W	2.7 (4.9%)	-0.2 (-0.3%)
	AN	2.7 (4.9%)	0.1 (0.2%)
	BN	3.3 (6%)	0.3 (0.6%)
	D	3.1 (5.7%)	-0.1 (-0.1%)
	C	3.1 (5.6%)	-0.3 (-0.5%)
	AVG	2.9 (5.3%)	0 (-0.1%)
NOV	W	2 (3.9%)	-0.3 (-0.6%)
	AN	2 (4%)	-0.2 (-0.4%)
	BN	2.2 (4.4%)	-0.3 (-0.5%)
	D	2.1 (4.1%)	-0.2 (-0.3%)
	C	2.2 (4.2%)	-0.2 (-0.4%)
	AVG	2.1 (4.1%)	-0.2 (-0.5%)
DEC	W	1.2 (2.6%)	0.1 (0.2%)
	AN	1.7 (3.7%)	-0.1 (-0.1%)
	BN	1.9 (4.1%)	0 (0.1%)
	D	2 (4.2%)	0.1 (0.1%)
	C	1.9 (4.1%)	0 (0%)
	AVG	1.7 (3.6%)	0 (0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.3.3 Sacramento River at Bend Bridge**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
3 **Sacramento River at Bend Bridge, Year-Round**

Alternative 3: Sacramento River at Bend Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	45	46	46
	D	45	47	47
	C	45	47	47
	AVG	45	47	47
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	47
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	50	50
	AN	49	51	51
	BN	49	51	51
	D	50	52	52
	C	50	52	52
	AVG	49	51	51
APR	W	51	53	53
	AN	53	55	55
	BN	53	55	55
	D	53	55	54
	C	52	54	54
	AVG	52	54	54
MAY	W	54	57	57
	AN	55	57	57
	BN	55	57	57
	D	55	56	56
	C	55	57	57
	AVG	55	57	57
JUN	W	56	57	57
	AN	55	57	56
	BN	55	57	57
	D	55	57	57
	C	57	59	59
	AVG	55	57	57
JUL	W	56	57	57
	AN	55	57	57
	BN	55	57	58
	D	56	58	59
	C	58	63	63
	AVG	56	58	59

Alternative 3: Sacramento River at Bend Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL
AUG	W	57	59	60
	AN	57	59	60
	BN	56	59	60
	D	57	60	61
	C	60	67	67
	AVG	57	60	61
SEP	W	57	58	60
	AN	58	59	61
	BN	58	60	61
	D	58	63	63
	C	62	67	67
	AVG	58	61	62
OCT	W	54	57	57
	AN	55	57	57
	BN	55	58	58
	D	55	58	58
	C	56	60	59
	AVG	55	58	58
NOV	W	51	53	53
	AN	51	53	53
	BN	51	53	53
	D	51	54	53
	C	52	54	54
	AVG	51	53	53
DEC	W	47	48	48
	AN	46	48	48
	BN	47	49	49
	D	46	48	49
	C	47	49	49
	AVG	47	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Bend Bridge, Year-Round**

Alternative 3: Sacramento River at Bend Bridge			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	1.5 (3.2%)	0 (0%)
	AN	1.6 (3.5%)	0 (0.1%)
	BN	1.8 (4%)	0.1 (0.1%)
	D	1.9 (4.3%)	0 (0.1%)
	C	2 (4.4%)	-0.3 (-0.6%)
	AVG	1.7 (3.8%)	0 (0%)
FEB	W	1.6 (3.4%)	0 (0%)
	AN	1.6 (3.5%)	0 (0%)
	BN	1.7 (3.6%)	0 (-0.1%)
	D	1.9 (4%)	0 (0%)
	C	2 (4.3%)	0 (0%)
	AVG	1.7 (3.7%)	0 (0%)
MAR	W	1.5 (3%)	0 (0%)
	AN	1.6 (3.3%)	0 (0.1%)
	BN	1.6 (3.3%)	-0.1 (-0.2%)
	D	1.6 (3.3%)	-0.1 (-0.1%)
	C	1.6 (3.2%)	-0.2 (-0.4%)
	AVG	1.6 (3.2%)	-0.1 (-0.1%)
APR	W	1.8 (3.4%)	0 (0%)
	AN	1.7 (3.3%)	-0.2 (-0.4%)
	BN	1.7 (3.1%)	-0.1 (-0.3%)
	D	1.6 (3.1%)	-0.3 (-0.5%)
	C	1.8 (3.5%)	-0.2 (-0.4%)
	AVG	1.7 (3.3%)	-0.1 (-0.3%)
MAY	W	2.5 (4.6%)	-0.4 (-0.8%)
	AN	1.3 (2.3%)	-0.5 (-0.8%)
	BN	1.7 (3.1%)	-0.5 (-0.8%)
	D	1.2 (2.1%)	-0.7 (-1.2%)
	C	1.8 (3.3%)	-0.1 (-0.2%)
	AVG	1.8 (3.3%)	-0.5 (-0.8%)
JUN	W	0.9 (1.5%)	-0.6 (-1.1%)
	AN	0.8 (1.4%)	-0.6 (-1.1%)
	BN	1.6 (3%)	0 (0%)
	D	2.1 (3.7%)	0.1 (0.2%)
	C	2 (3.6%)	0 (0%)
	AVG	1.4 (2.5%)	-0.3 (-0.5%)
JUL	W	1.2 (2.2%)	0.2 (0.4%)
	AN	1.8 (3.2%)	0.3 (0.6%)
	BN	2.6 (4.7%)	0.9 (1.6%)
	D	3.2 (5.7%)	0.8 (1.3%)
	C	5.2 (8.9%)	0.2 (0.3%)
	AVG	2.5 (4.5%)	0.5 (0.8%)

Alternative 3: Sacramento River at Bend Bridge			
Month	WYT	EXISTING CONDITIONS vs. A3_LLT	NAA vs. A3_LLT
AUG	W	2.9 (5.1%)	0.3 (0.5%)
	AN	2.6 (4.6%)	0.7 (1.2%)
	BN	3.6 (6.4%)	0.9 (1.5%)
	D	4.2 (7.3%)	1.1 (1.8%)
	C	7.5 (12.5%)	0.4 (0.7%)
	AVG	3.9 (6.9%)	0.7 (1.1%)
SEP	W	3.4 (6.1%)	2.2 (3.8%)
	AN	2.8 (4.8%)	1.5 (2.6%)
	BN	3.6 (6.3%)	0.7 (1.1%)
	D	4.9 (8.4%)	0 (0%)
	C	5.2 (8.4%)	-0.1 (-0.1%)
	AVG	3.9 (6.8%)	1 (1.7%)
OCT	W	2.7 (4.9%)	-0.2 (-0.3%)
	AN	2.7 (4.9%)	0.1 (0.1%)
	BN	3.2 (5.9%)	0.3 (0.5%)
	D	3.1 (5.6%)	-0.1 (-0.1%)
	C	3.1 (5.5%)	-0.3 (-0.4%)
	AVG	2.9 (5.3%)	0 (-0.1%)
NOV	W	2 (3.9%)	-0.3 (-0.6%)
	AN	2 (4%)	-0.2 (-0.4%)
	BN	2.3 (4.4%)	-0.3 (-0.5%)
	D	2.1 (4.1%)	-0.2 (-0.3%)
	C	2.2 (4.2%)	-0.2 (-0.4%)
	AVG	2.1 (4.1%)	-0.3 (-0.5%)
DEC	W	1.3 (2.7%)	0.1 (0.2%)
	AN	1.8 (3.9%)	0 (-0.1%)
	BN	2 (4.3%)	0 (0.1%)
	D	2 (4.3%)	0.1 (0.1%)
	C	2 (4.2%)	0 (0%)
	AVG	1.7 (3.7%)	0 (0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.3.4 Sacramento River at Red Bluff Diversion Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
3 **Sacramento River at Red Bluff Diversion Dam, Year-Round**

Alternative 3: Sacramento River at Red Bluff Diversion Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	45	46	46
	AN	45	47	47
	BN	44	46	46
	D	44	46	46
	C	44	47	46
	AVG	45	46	46
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	50	50
	AN	49	51	51
	BN	49	51	51
	D	50	52	52
	C	51	53	52
	AVG	49	51	51
APR	W	52	54	54
	AN	53	55	55
	BN	54	55	55
	D	54	55	55
	C	53	55	55
	AVG	53	55	55
MAY	W	55	58	58
	AN	56	58	58
	BN	56	58	58
	D	56	58	57
	C	57	59	58
	AVG	56	58	58
JUN	W	57	59	58
	AN	57	58	58
	BN	57	58	58
	D	57	59	59
	C	58	60	60
	AVG	57	59	59
JUL	W	58	59	59
	AN	57	59	59
	BN	57	59	60
	D	57	60	61
	C	60	64	65
	AVG	58	60	60

Alternative 3: Sacramento River at Red Bluff Diversion Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LLT
AUG	W	58	61	61
	AN	59	61	61
	BN	58	61	62
	D	59	62	63
	C	61	68	69
	AVG	59	62	63
SEP	W	58	59	61
	AN	59	60	62
	BN	59	62	63
	D	59	64	64
	C	63	68	68
	AVG	59	62	63
OCT	W	55	57	57
	AN	55	57	57
	BN	55	58	58
	D	55	59	59
	C	56	60	60
	AVG	55	58	58
NOV	W	50	53	52
	AN	50	53	53
	BN	51	53	53
	D	51	53	53
	C	52	54	54
	AVG	51	53	53
DEC	W	46	48	48
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	46	48	48
	AVG	46	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Red Bluff Diversion Dam, Year-Round**

Alternative 3: Sacramento River at Red Bluff Diversion Dam			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	1.5 (3.3%)	0 (0%)
	AN	1.7 (3.7%)	0 (0.1%)
	BN	1.9 (4.2%)	0.1 (0.2%)
	D	2 (4.5%)	0 (0.1%)
	C	2 (4.6%)	-0.3 (-0.6%)
	AVG	1.8 (4%)	0 (0%)
FEB	W	1.6 (3.5%)	0 (0%)
	AN	1.6 (3.6%)	0 (0%)
	BN	1.7 (3.7%)	0 (-0.1%)
	D	1.9 (4.2%)	0 (0%)
	C	2.1 (4.4%)	0 (0%)
	AVG	1.8 (3.8%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0%)
	AN	1.6 (3.3%)	0 (0.1%)
	BN	1.7 (3.4%)	-0.1 (-0.2%)
	D	1.7 (3.3%)	-0.1 (-0.1%)
	C	1.7 (3.3%)	-0.2 (-0.4%)
	AVG	1.6 (3.2%)	-0.1 (-0.1%)
APR	W	1.8 (3.5%)	0 (0%)
	AN	1.8 (3.3%)	-0.2 (-0.4%)
	BN	1.7 (3.2%)	-0.2 (-0.3%)
	D	1.7 (3.1%)	-0.3 (-0.5%)
	C	1.8 (3.5%)	-0.2 (-0.4%)
	AVG	1.8 (3.3%)	-0.1 (-0.3%)
MAY	W	2.6 (4.7%)	-0.5 (-0.8%)
	AN	1.3 (2.3%)	-0.5 (-0.9%)
	BN	1.8 (3.1%)	-0.5 (-0.9%)
	D	1.2 (2.1%)	-0.7 (-1.3%)
	C	1.9 (3.3%)	-0.1 (-0.2%)
	AVG	1.8 (3.3%)	-0.5 (-0.8%)
JUN	W	1 (1.7%)	-0.7 (-1.1%)
	AN	0.8 (1.4%)	-0.7 (-1.2%)
	BN	1.7 (3%)	-0.1 (-0.2%)
	D	2.1 (3.7%)	0 (0.1%)
	C	2 (3.4%)	0 (0%)
	AVG	1.5 (2.6%)	-0.3 (-0.6%)
JUL	W	1.3 (2.2%)	0.2 (0.3%)
	AN	1.8 (3.2%)	0.3 (0.5%)
	BN	2.7 (4.7%)	0.9 (1.5%)
	D	3.3 (5.7%)	0.8 (1.4%)
	C	5.1 (8.5%)	0.2 (0.3%)
	AVG	2.6 (4.5%)	0.5 (0.8%)

Alternative 3: Sacramento River at Red Bluff Diversion Dam			
Month	WYT	EXISTING CONDITIONS vs. A3_LLT	NAA vs. A3_LLT
AUG	W	3.1 (5.2%)	0.3 (0.4%)
	AN	2.7 (4.7%)	0.7 (1.2%)
	BN	3.7 (6.4%)	0.9 (1.5%)
	D	4.3 (7.4%)	1.2 (2%)
	C	7.4 (12%)	0.4 (0.6%)
	AVG	4 (6.9%)	0.7 (1.1%)
SEP	W	3.7 (6.4%)	2.5 (4.2%)
	AN	2.8 (4.8%)	1.7 (2.9%)
	BN	3.7 (6.3%)	0.7 (1.1%)
	D	5 (8.4%)	0 (0%)
	C	5.2 (8.2%)	-0.1 (-0.1%)
	AVG	4.1 (6.9%)	1.1 (1.8%)
OCT	W	2.7 (4.9%)	-0.1 (-0.3%)
	AN	2.7 (4.8%)	0.1 (0.1%)
	BN	3.2 (5.8%)	0.3 (0.5%)
	D	3 (5.5%)	-0.1 (-0.1%)
	C	3.1 (5.5%)	-0.2 (-0.4%)
	AVG	2.9 (5.3%)	0 (-0.1%)
NOV	W	2.1 (4.1%)	-0.3 (-0.6%)
	AN	2.1 (4.2%)	-0.2 (-0.4%)
	BN	2.3 (4.6%)	-0.3 (-0.5%)
	D	2.2 (4.3%)	-0.2 (-0.3%)
	C	2.2 (4.3%)	-0.2 (-0.4%)
	AVG	2.2 (4.2%)	-0.3 (-0.5%)
DEC	W	1.3 (2.9%)	0.1 (0.2%)
	AN	1.9 (4%)	0 (-0.1%)
	BN	2 (4.4%)	0 (0.1%)
	D	2.1 (4.5%)	0.1 (0.2%)
	C	2.1 (4.5%)	0 (0%)
	AVG	1.8 (3.9%)	0 (0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.3.5 Sacramento River at Hamilton City**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
3 **Sacramento River at Hamilton City, Year-Round**

Alternative 3: Sacramento River at Hamilton City				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	44	46	46
	D	44	46	46
	C	44	47	47
	AVG	45	47	47
FEB	W	46	48	48
	AN	47	48	48
	BN	46	48	48
	D	47	49	49
	C	48	50	50
	AVG	47	49	49
MAR	W	49	51	51
	AN	51	52	52
	BN	51	53	53
	D	52	54	53
	C	52	54	54
	AVG	51	52	52
APR	W	54	55	55
	AN	55	57	57
	BN	56	58	57
	D	56	58	58
	C	56	58	58
	AVG	55	57	57
MAY	W	58	62	61
	AN	60	62	61
	BN	59	62	61
	D	59	61	60
	C	60	62	62
	AVG	59	62	61
JUN	W	61	63	62
	AN	61	62	61
	BN	60	62	62
	D	60	63	63
	C	61	63	63
	AVG	61	63	62
JUL	W	62	63	63
	AN	61	63	63
	BN	61	63	64
	D	61	64	65
	C	63	68	68
	AVG	62	64	64

Alternative 3: Sacramento River at Hamilton City				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL
AUG	W	62	65	65
	AN	62	64	65
	BN	62	65	66
	D	62	65	67
	C	65	71	72
	AVG	62	66	67
SEP	W	60	61	64
	AN	62	63	65
	BN	62	65	66
	D	62	67	67
	C	64	69	69
	AVG	62	65	66
OCT	W	55	58	58
	AN	56	58	58
	BN	56	59	59
	D	56	59	59
	C	57	60	60
	AVG	56	59	59
NOV	W	50	53	52
	AN	50	53	53
	BN	50	53	53
	D	51	53	53
	C	52	54	54
	AVG	51	53	53
DEC	W	46	47	47
	AN	46	48	48
	BN	45	48	48
	D	45	48	48
	C	45	48	48
	AVG	46	47	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Hamilton City, Year-Round**

Alternative 3: Sacramento River at Hamilton City			
Month	WYT	EXISTING CONDITIONS	
		vs. A3_LLT	NAA vs. A3_LLT
JAN	W	1.6 (3.6%)	0 (0%)
	AN	1.8 (4%)	0 (0.1%)
	BN	2 (4.5%)	0 (0.1%)
	D	2.2 (5%)	0.1 (0.1%)
	C	2.2 (5%)	-0.2 (-0.5%)
	AVG	1.9 (4.3%)	0 (0%)
FEB	W	1.7 (3.6%)	0 (0%)
	AN	1.7 (3.7%)	0 (0%)
	BN	1.8 (3.9%)	0 (-0.1%)
	D	2.1 (4.4%)	0 (-0.1%)
	C	2.3 (4.7%)	0 (0%)
	AVG	1.9 (4%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0%)
	AN	1.7 (3.3%)	0 (0.1%)
	BN	1.7 (3.4%)	-0.1 (-0.3%)
	D	1.7 (3.3%)	-0.1 (-0.2%)
	C	1.7 (3.3%)	-0.2 (-0.4%)
	AVG	1.7 (3.3%)	-0.1 (-0.1%)
APR	W	1.9 (3.5%)	0 (0%)
	AN	1.9 (3.4%)	-0.2 (-0.4%)
	BN	1.8 (3.2%)	-0.2 (-0.4%)
	D	1.8 (3.3%)	-0.2 (-0.4%)
	C	1.9 (3.4%)	-0.2 (-0.3%)
	AVG	1.8 (3.4%)	-0.2 (-0.3%)
MAY	W	2.8 (4.8%)	-0.5 (-0.8%)
	AN	1.4 (2.4%)	-0.6 (-1%)
	BN	1.8 (3.1%)	-0.7 (-1.1%)
	D	1.2 (2%)	-0.8 (-1.4%)
	C	1.9 (3.2%)	-0.1 (-0.2%)
	AVG	1.9 (3.3%)	-0.6 (-0.9%)
JUN	W	1.1 (1.8%)	-0.8 (-1.3%)
	AN	0.8 (1.3%)	-0.9 (-1.5%)
	BN	1.8 (3%)	-0.2 (-0.3%)
	D	2.1 (3.5%)	0 (-0.1%)
	C	2 (3.2%)	-0.1 (-0.2%)
	AVG	1.5 (2.5%)	-0.4 (-0.7%)
JUL	W	1.4 (2.3%)	0.1 (0.2%)
	AN	2 (3.3%)	0.3 (0.6%)
	BN	2.9 (4.8%)	0.8 (1.3%)
	D	3.5 (5.7%)	1 (1.5%)
	C	5 (8%)	0.2 (0.3%)
	AVG	2.7 (4.4%)	0.5 (0.8%)

Alternative 3: Sacramento River at Hamilton City			
Month	WYT	EXISTING CONDITIONS vs. A3_LLT	NAA vs. A3_LLT
AUG	W	3.5 (5.6%)	0.3 (0.4%)
	AN	2.9 (4.7%)	0.8 (1.3%)
	BN	4 (6.5%)	1 (1.6%)
	D	4.7 (7.6%)	1.5 (2.3%)
	C	7.1 (10.9%)	0.5 (0.6%)
	AVG	4.3 (6.9%)	0.8 (1.2%)
SEP	W	4.3 (7.1%)	3.2 (5.2%)
	AN	3 (4.8%)	2.2 (3.4%)
	BN	3.8 (6.1%)	0.6 (0.9%)
	D	5.1 (8.2%)	0 (-0.1%)
	C	4.8 (7.5%)	-0.2 (-0.3%)
	AVG	4.2 (6.9%)	1.4 (2.1%)
OCT	W	2.6 (4.7%)	-0.1 (-0.2%)
	AN	2.6 (4.7%)	-0.1 (-0.1%)
	BN	3.1 (5.5%)	0.2 (0.3%)
	D	2.9 (5.1%)	-0.1 (-0.2%)
	C	3 (5.2%)	-0.3 (-0.4%)
	AVG	2.8 (5%)	-0.1 (-0.1%)
NOV	W	2.2 (4.4%)	-0.2 (-0.4%)
	AN	2.3 (4.6%)	-0.1 (-0.2%)
	BN	2.4 (4.8%)	-0.2 (-0.4%)
	D	2.3 (4.5%)	-0.2 (-0.3%)
	C	2.4 (4.7%)	-0.2 (-0.4%)
	AVG	2.3 (4.5%)	-0.2 (-0.4%)
DEC	W	1.5 (3.3%)	0.1 (0.1%)
	AN	2 (4.4%)	0 (-0.1%)
	BN	2.2 (4.8%)	0.1 (0.1%)
	D	2.3 (5%)	0.1 (0.3%)
	C	2.3 (5%)	0 (0.1%)
	AVG	2 (4.3%)	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.

1 **11D.3.6 Trinity River below Lewiston Reservoir**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
3 **Trinity River below Lewiston Reservoir, Year-Round**

Alternative 3: Trinity River below Lewiston Reservoir				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	41	43	43
	AN	38	41	41
	BN	39	41	40
	D	39	41	41
	C	39	42	42
	AVG	39	42	42
FEB	W	43	45	45
	AN	43	45	45
	BN	42	44	44
	D	42	45	45
	C	43	45	46
	AVG	43	45	45
MAR	W	46	48	47
	AN	47	49	49
	BN	47	48	48
	D	48	50	50
	C	48	50	50
	AVG	47	49	49
APR	W	49	51	51
	AN	50	52	53
	BN	51	53	53
	D	51	53	53
	C	50	52	53
	AVG	50	52	52
MAY	W	46	48	48
	AN	46	48	48
	BN	46	49	49
	D	47	49	49
	C	49	52	53
	AVG	47	49	49
JUN	W	48	51	50
	AN	51	52	52
	BN	52	53	54
	D	52	54	54
	C	56	59	59
	AVG	51	53	53
JUL	W	51	55	53
	AN	52	54	53
	BN	52	55	55
	D	51	54	54
	C	53	60	59
	AVG	51	55	55

Alternative 3: Trinity River below Lewiston Reservoir				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL
AUG	W	52	54	54
	AN	51	53	53
	BN	52	55	55
	D	50	54	55
	C	54	63	63
	AVG	52	56	56
SEP	W	49	51	52
	AN	50	51	52
	BN	51	55	56
	D	50	56	57
	C	57	62	62
	AVG	51	54	55
OCT	W	48	51	51
	AN	49	52	52
	BN	50	53	53
	D	50	52	52
	C	51	56	55
	AVG	49	52	52
NOV	W	44	47	47
	AN	45	47	47
	BN	45	47	48
	D	44	47	47
	C	46	48	49
	AVG	45	47	47
DEC	W	41	43	43
	AN	39	43	43
	BN	40	42	42
	D	40	42	42
	C	39	41	41
	AVG	40	42	42

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River below Lewiston Reservoir, Year-Round**

Alternative 3: Trinity River below Lewiston Reservoir			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	1.9 (4.7%)	-0.1 (-0.3%)
	AN	2.7 (6.9%)	0.2 (0.6%)
	BN	1.6 (4.2%)	-0.4 (-1.1%)
	D	2.7 (7.1%)	0 (0.1%)
	C	2.4 (6%)	0.1 (0.2%)
	AVG	2.2 (5.6%)	-0.1 (-0.2%)
FEB	W	2.3 (5.5%)	0 (-0.1%)
	AN	2.2 (5.1%)	-0.1 (-0.1%)
	BN	2.1 (5.1%)	0 (0%)
	D	2.3 (5.4%)	0 (0.1%)
	C	2.4 (5.5%)	0.2 (0.4%)
	AVG	2.3 (5.4%)	0 (0%)
MAR	W	1.7 (3.7%)	-0.3 (-0.6%)
	AN	1.6 (3.5%)	-0.1 (-0.1%)
	BN	1.7 (3.6%)	-0.1 (-0.3%)
	D	1.4 (3%)	-0.1 (-0.1%)
	C	1.9 (3.9%)	-0.2 (-0.5%)
	AVG	1.7 (3.5%)	-0.2 (-0.3%)
APR	W	1.6 (3.2%)	0.1 (0.2%)
	AN	2.5 (5%)	0.5 (1%)
	BN	2.3 (4.4%)	-0.3 (-0.5%)
	D	2 (4%)	-0.2 (-0.4%)
	C	2.4 (4.8%)	0.3 (0.5%)
	AVG	2 (4.1%)	0 (0.1%)
MAY	W	2.4 (5.3%)	0 (0%)
	AN	2.3 (5%)	0 (-0.1%)
	BN	2.4 (5.1%)	0.1 (0.3%)
	D	2.5 (5.5%)	0 (0%)
	C	3.5 (7%)	0.3 (0.6%)
	AVG	2.6 (5.5%)	0.1 (0.1%)
JUN	W	2.1 (4.4%)	-0.1 (-0.3%)
	AN	1.1 (2.1%)	0 (-0.1%)
	BN	2 (4%)	0.2 (0.4%)
	D	2.4 (4.5%)	0.1 (0.2%)
	C	3.6 (6.5%)	-0.1 (-0.2%)
	AVG	2.2 (4.4%)	0 (0%)
JUL	W	2.6 (5.2%)	-1.2 (-2.2%)
	AN	1.5 (2.9%)	-0.5 (-1%)
	BN	2.9 (5.5%)	-0.4 (-0.6%)
	D	2.8 (5.5%)	0.2 (0.3%)
	C	6.7 (12.8%)	-0.2 (-0.3%)
	AVG	3.2 (6.1%)	-0.5 (-0.9%)

Alternative 3: Trinity River below Lewiston Reservoir			
Month	WYT	EXISTING CONDITIONS vs. A3_LLT	NAA vs. A3_LLT
AUG	W	1.7 (3.2%)	-0.4 (-0.8%)
	AN	2 (3.8%)	-0.3 (-0.5%)
	BN	3.3 (6.3%)	0.3 (0.6%)
	D	5.3 (10.7%)	1.3 (2.4%)
	C	9.3 (17.3%)	-0.1 (-0.2%)
	AVG	3.9 (7.6%)	0.2 (0.3%)
SEP	W	2.7 (5.6%)	0.8 (1.6%)
	AN	2.4 (4.9%)	0.7 (1.4%)
	BN	4.5 (8.8%)	1 (1.8%)
	D	6.7 (13.4%)	0.9 (1.5%)
	C	5.7 (10.2%)	0.1 (0.1%)
	AVG	4.3 (8.5%)	0.7 (1.3%)
OCT	W	3 (6.4%)	-0.2 (-0.4%)
	AN	2.9 (5.9%)	0.6 (1.1%)
	BN	3.3 (6.7%)	0.5 (0.9%)
	D	2.9 (5.8%)	0.6 (1.2%)
	C	3.5 (6.9%)	-0.9 (-1.6%)
	AVG	3.1 (6.3%)	0.1 (0.2%)
NOV	W	2.8 (6.3%)	0.2 (0.4%)
	AN	2.4 (5.5%)	0.2 (0.4%)
	BN	3.3 (7.3%)	0.7 (1.5%)
	D	2.7 (6.2%)	0 (0%)
	C	2.6 (5.6%)	0.5 (1.1%)
	AVG	2.8 (6.2%)	0.3 (0.6%)
DEC	W	2.1 (5.2%)	0.1 (0.2%)
	AN	3.4 (8.7%)	-0.2 (-0.4%)
	BN	2.2 (5.6%)	-0.3 (-0.7%)
	D	1.9 (4.7%)	0.1 (0.1%)
	C	1.7 (4.2%)	-0.1 (-0.2%)
	AVG	2.2 (5.5%)	-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.

1 **11D.3.7 Trinity River at Douglas City**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
3 **Trinity River at Douglas City, Year-Round**

Alternative 3: Trinity River at Douglas City				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	40	42	42
	AN	39	40	40
	BN	38	40	40
	D	38	40	40
	C	39	41	41
	AVG	39	41	41
FEB	W	43	45	45
	AN	43	45	45
	BN	42	44	44
	D	43	44	44
	C	43	45	45
	AVG	43	45	45
MAR	W	46	47	47
	AN	47	48	48
	BN	47	48	48
	D	48	49	49
	C	48	49	49
	AVG	47	48	48
APR	W	51	52	52
	AN	52	53	54
	BN	52	54	54
	D	53	54	54
	C	52	54	54
	AVG	52	53	53
MAY	W	48	50	50
	AN	48	50	50
	BN	49	51	51
	D	49	51	51
	C	52	55	55
	AVG	49	51	51
JUN	W	51	54	53
	AN	54	55	55
	BN	55	57	57
	D	57	59	59
	C	60	63	63
	AVG	55	57	57
JUL	W	57	61	60
	AN	58	60	60
	BN	59	62	61
	D	59	62	62
	C	62	67	67
	AVG	59	62	62

Alternative 3: Trinity River at Douglas City				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LLT
AUG	W	60	62	62
	AN	59	61	61
	BN	60	63	63
	D	58	62	63
	C	61	67	67
	AVG	60	63	63
SEP	W	55	57	58
	AN	55	57	58
	BN	56	59	60
	D	55	60	60
	C	59	64	64
	AVG	56	59	60
OCT	W	50	53	53
	AN	51	53	53
	BN	52	54	55
	D	51	53	53
	C	53	56	55
	AVG	51	54	54
NOV	W	44	46	46
	AN	45	47	47
	BN	45	47	47
	D	44	46	46
	C	46	47	48
	AVG	44	47	47
DEC	W	41	43	43
	AN	40	42	42
	BN	39	42	41
	D	40	42	42
	C	39	41	41
	AVG	40	42	42

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River at Douglas City, Year-Round**

Alternative 3: Trinity River at Douglas City			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	1.5 (3.7%)	-0.1 (-0.2%)
	AN	1.9 (4.9%)	0.3 (0.7%)
	BN	1.5 (3.8%)	0 (-0.1%)
	D	2.2 (5.7%)	0 (0%)
	C	2.2 (5.6%)	0.1 (0.2%)
	AVG	1.8 (4.6%)	0 (0.1%)
FEB	W	1.6 (3.6%)	0 (-0.1%)
	AN	1.5 (3.5%)	0 (0%)
	BN	1.6 (3.8%)	0 (0%)
	D	1.6 (3.8%)	0 (0.1%)
	C	1.8 (4.1%)	-0.1 (-0.1%)
	AVG	1.6 (3.7%)	0 (0%)
MAR	W	1.1 (2.5%)	-0.1 (-0.1%)
	AN	1 (2.1%)	0 (0%)
	BN	1.1 (2.4%)	-0.1 (-0.1%)
	D	1 (2.1%)	0 (0%)
	C	1.4 (3%)	-0.1 (-0.2%)
	AVG	1.1 (2.4%)	-0.1 (-0.1%)
APR	W	1.2 (2.4%)	0 (0%)
	AN	1.7 (3.2%)	0.3 (0.6%)
	BN	1.6 (3%)	-0.1 (-0.2%)
	D	1.6 (3%)	-0.1 (-0.2%)
	C	2 (3.8%)	0.2 (0.3%)
	AVG	1.5 (3%)	0 (0%)
MAY	W	2.3 (4.9%)	0 (0%)
	AN	2.2 (4.7%)	0 (0%)
	BN	2.3 (4.6%)	0.1 (0.3%)
	D	2.5 (5%)	0 (0%)
	C	3.2 (6.2%)	0.2 (0.4%)
	AVG	2.5 (5.1%)	0.1 (0.1%)
JUN	W	2 (3.9%)	-0.1 (-0.2%)
	AN	1 (1.8%)	0 (0%)
	BN	2 (3.5%)	0.1 (0.2%)
	D	2.4 (4.2%)	0.1 (0.1%)
	C	3.1 (5.1%)	-0.1 (-0.1%)
	AVG	2.1 (3.8%)	0 (0%)
JUL	W	3 (5.2%)	-0.8 (-1.3%)
	AN	1.9 (3.2%)	-0.4 (-0.6%)
	BN	2.4 (4%)	-0.3 (-0.5%)
	D	2.8 (4.7%)	0.1 (0.2%)
	C	4.9 (7.9%)	0.3 (0.4%)
	AVG	3 (5%)	-0.3 (-0.5%)

Alternative 3: Trinity River at Douglas City			
Month	WYT	EXISTING CONDITIONS vs. A3_LLT	NAA vs. A3_LLT
AUG	W	2.3 (3.9%)	-0.2 (-0.3%)
	AN	2.5 (4.2%)	-0.1 (-0.2%)
	BN	3.2 (5.4%)	0.2 (0.3%)
	D	4.4 (7.6%)	0.7 (1.1%)
	C	6.5 (10.7%)	0.2 (0.3%)
	AVG	3.6 (6%)	0.1 (0.2%)
SEP	W	2.9 (5.3%)	0.5 (0.8%)
	AN	2.7 (4.9%)	0.4 (0.7%)
	BN	3.9 (7%)	0.6 (1%)
	D	5.2 (9.5%)	0.5 (0.9%)
	C	5.2 (8.9%)	0 (-0.1%)
	AVG	3.9 (7%)	0.4 (0.7%)
OCT	W	2.4 (4.8%)	-0.1 (-0.2%)
	AN	2.3 (4.5%)	0.4 (0.7%)
	BN	2.6 (5.1%)	0.3 (0.5%)
	D	2.3 (4.5%)	0.4 (0.7%)
	C	2.5 (4.8%)	-0.6 (-1%)
	AVG	2.4 (4.8%)	0.1 (0.1%)
NOV	W	2.2 (5%)	0.1 (0.2%)
	AN	2.1 (4.7%)	0.1 (0.2%)
	BN	2.6 (5.8%)	0.4 (0.8%)
	D	2.2 (5.1%)	0 (0.1%)
	C	2.1 (4.7%)	0.3 (0.6%)
	AVG	2.2 (5%)	0.2 (0.3%)
DEC	W	1.5 (3.7%)	0.1 (0.3%)
	AN	2.2 (5.6%)	-0.2 (-0.4%)
	BN	2 (5%)	-0.1 (-0.4%)
	D	2 (5%)	0.3 (0.6%)
	C	2.3 (6%)	0.1 (0.3%)
	AVG	1.9 (4.8%)	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.

1 **11D.3.8 Trinity River below North Fork**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
3 **Trinity River below North Fork, Year-Round**

Alternative 3: Trinity River below North Fork				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	40	41	41
	AN	38	39	40
	BN	38	39	39
	D	38	39	39
	C	38	40	40
	AVG	39	40	40
FEB	W	43	44	44
	AN	43	44	44
	BN	43	44	44
	D	43	44	44
	C	43	45	45
	AVG	43	44	44
MAR	W	46	47	47
	AN	46	47	47
	BN	46	47	47
	D	47	48	48
	C	48	49	49
	AVG	47	47	47
APR	W	53	53	53
	AN	54	54	55
	BN	54	55	55
	D	54	55	55
	C	54	55	55
	AVG	53	54	54
MAY	W	50	52	52
	AN	50	52	52
	BN	51	53	53
	D	51	54	54
	C	54	57	57
	AVG	51	53	53
JUN	W	55	57	57
	AN	58	58	58
	BN	60	61	61
	D	62	64	64
	C	63	66	66
	AVG	59	61	61
JUL	W	63	66	66
	AN	63	66	65
	BN	65	67	67
	D	65	68	68
	C	68	71	71
	AVG	65	67	67

Alternative 3: Trinity River below North Fork				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL
AUG	W	65	68	67
	AN	64	67	67
	BN	65	68	68
	D	64	67	67
	C	65	69	69
	AVG	65	68	68
SEP	W	59	62	62
	AN	59	61	61
	BN	59	62	63
	D	58	62	62
	C	61	64	64
	AVG	59	62	62
OCT	W	53	55	55
	AN	53	55	55
	BN	54	56	56
	D	53	54	55
	C	54	56	56
	AVG	53	55	55
NOV	W	44	45	45
	AN	44	46	46
	BN	44	46	46
	D	44	45	45
	C	45	47	47
	AVG	44	46	46
DEC	W	41	42	42
	AN	40	42	41
	BN	39	41	41
	D	40	41	41
	C	38	40	40
	AVG	40	41	41

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River below North Fork, Year-Round**

Alternative 3: Trinity River below North Fork			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	1.1 (2.8%)	0 (-0.1%)
	AN	1.3 (3.5%)	0.3 (0.7%)
	BN	1.1 (3%)	0.1 (0.2%)
	D	1.6 (4.2%)	0 (0%)
	C	1.7 (4.5%)	0 (0%)
	AVG	1.3 (3.5%)	0 (0.1%)
FEB	W	1 (2.4%)	0 (-0.1%)
	AN	1 (2.4%)	0 (0.1%)
	BN	1.1 (2.7%)	0 (0%)
	D	1.1 (2.5%)	0 (0%)
	C	1.4 (3.2%)	-0.1 (-0.1%)
	AVG	1.1 (2.6%)	0 (0%)
MAR	W	0.7 (1.6%)	0 (0%)
	AN	0.6 (1.3%)	0 (0%)
	BN	0.7 (1.5%)	0 (0%)
	D	0.7 (1.5%)	0 (0%)
	C	1 (2.2%)	0 (-0.1%)
	AVG	0.8 (1.6%)	0 (0%)
APR	W	0.8 (1.5%)	0 (0%)
	AN	1 (2%)	0.1 (0.2%)
	BN	1 (1.9%)	0 (-0.1%)
	D	1.1 (2.1%)	-0.1 (-0.1%)
	C	1.5 (2.8%)	0.1 (0.1%)
	AVG	1 (2%)	0 (0%)
MAY	W	2.1 (4.2%)	0 (0%)
	AN	2.1 (4.1%)	0 (-0.1%)
	BN	2 (3.9%)	0.1 (0.2%)
	D	2.2 (4.3%)	0 (0%)
	C	2.8 (5.2%)	0.2 (0.3%)
	AVG	2.2 (4.3%)	0 (0.1%)
JUN	W	1.8 (3.2%)	-0.1 (-0.1%)
	AN	0.7 (1.3%)	0 (0%)
	BN	1.8 (3%)	0.1 (0.1%)
	D	2.2 (3.6%)	0 (0%)
	C	2.5 (3.9%)	0 (-0.1%)
	AVG	1.8 (3.1%)	0 (0%)
JUL	W	2.9 (4.7%)	-0.5 (-0.7%)
	AN	2 (3.1%)	-0.2 (-0.3%)
	BN	2 (3.2%)	-0.2 (-0.3%)
	D	2.6 (3.9%)	0 (0.1%)
	C	3.5 (5.1%)	0.1 (0.2%)
	AVG	2.6 (4.1%)	-0.2 (-0.3%)

Alternative 3: Trinity River below North Fork			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	2.4 (3.7%)	-0.1 (-0.1%)
	AN	2.6 (4%)	-0.1 (-0.1%)
	BN	2.9 (4.5%)	0.1 (0.1%)
	D	3.6 (5.6%)	0.3 (0.5%)
	C	4.1 (6.3%)	0.2 (0.3%)
	AVG	3 (4.7%)	0.1 (0.1%)
SEP	W	2.8 (4.7%)	0.2 (0.4%)
	AN	2.7 (4.6%)	0.2 (0.3%)
	BN	3.3 (5.6%)	0.3 (0.5%)
	D	4 (6.8%)	0.2 (0.4%)
	C	3 (5%)	0 (0.1%)
	AVG	3.2 (5.3%)	0.2 (0.3%)
OCT	W	1.9 (3.6%)	-0.1 (-0.1%)
	AN	1.9 (3.6%)	0.1 (0.1%)
	BN	2.1 (3.9%)	0.1 (0.2%)
	D	2 (3.7%)	0.2 (0.3%)
	C	2.3 (4.3%)	-0.3 (-0.5%)
	AVG	2 (3.8%)	0 (0%)
NOV	W	1.6 (3.7%)	0 (0%)
	AN	1.6 (3.6%)	0 (0.1%)
	BN	2 (4.5%)	0.2 (0.3%)
	D	1.7 (3.9%)	0 (0%)
	C	1.8 (4%)	0.1 (0.3%)
	AVG	1.7 (3.9%)	0.1 (0.1%)
DEC	W	1.1 (2.6%)	0.2 (0.4%)
	AN	1.4 (3.6%)	-0.1 (-0.2%)
	BN	1.6 (4.2%)	0 (-0.1%)
	D	1.6 (3.9%)	0.1 (0.3%)
	C	1.9 (5%)	0 (0%)
	AVG	1.5 (3.7%)	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.

1 **11D.3.9 Feather River at Fish Barrier Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
3 **Feather River at Fish Barrier Dam, Year-Round**

Alternative 3: Feather River at Fish Barrier Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	48	51	51
	AN	47	50	51
	BN	48	51	51
	D	47	51	51
	C	48	51	51
	AVG	48	51	51
FEB	W	48	51	51
	AN	48	51	51
	BN	48	51	51
	D	49	52	52
	C	49	53	53
	AVG	48	51	51
MAR	W	49	51	52
	AN	49	51	51
	BN	50	53	53
	D	51	53	53
	C	51	54	54
	AVG	50	52	53
APR	W	51	52	53
	AN	51	53	53
	BN	52	54	54
	D	52	54	54
	C	52	54	54
	AVG	51	53	53
MAY	W	55	56	55
	AN	56	56	56
	BN	56	56	56
	D	56	56	56
	C	56	57	57
	AVG	55	56	56
JUN	W	57	58	58
	AN	58	58	58
	BN	58	58	58
	D	58	58	58
	C	58	59	59
	AVG	58	58	58
JUL	W	61	61	62
	AN	61	61	61
	BN	61	61	62
	D	61	61	62
	C	61	62	63
	AVG	61	61	62

Alternative 3: Feather River at Fish Barrier Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL
AUG	W	61	61	61
	AN	60	60	61
	BN	60	60	61
	D	60	62	61
	C	62	64	64
	AVG	61	61	61
SEP	W	56	55	57
	AN	56	55	57
	BN	56	57	58
	D	56	61	58
	C	58	63	62
	AVG	56	58	58
OCT	W	54	58	55
	AN	55	58	58
	BN	54	58	57
	D	54	59	57
	C	54	58	57
	AVG	54	58	57
NOV	W	52	58	55
	AN	53	58	56
	BN	53	58	56
	D	52	59	57
	C	53	58	58
	AVG	53	58	56
DEC	W	49	53	53
	AN	49	55	54
	BN	49	54	54
	D	49	54	54
	C	49	54	54
	AVG	49	54	54

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Fish Barrier Dam, Year-Round**

Alternative 3: Feather River at Fish Barrier Dam			
Month	WYT	EXISTING CONDITIONS vs. A3_LLT	NAA vs. A3_LLT
JAN	W	3.1 (6.5%)	0.4 (0.7%)
	AN	3.3 (7%)	0.3 (0.5%)
	BN	3 (6.3%)	0 (0%)
	D	3.8 (8%)	0.4 (0.8%)
	C	3.7 (7.9%)	-0.1 (-0.1%)
	AVG	3.4 (7.1%)	0.2 (0.5%)
FEB	W	2.9 (6%)	0.3 (0.6%)
	AN	2.7 (5.7%)	0.2 (0.4%)
	BN	3.1 (6.5%)	0.1 (0.3%)
	D	3.1 (6.4%)	0.2 (0.4%)
	C	3.6 (7.2%)	0.1 (0.2%)
	AVG	3.1 (6.3%)	0.2 (0.4%)
MAR	W	2.9 (5.9%)	0.4 (0.7%)
	AN	2.3 (4.7%)	0.1 (0.1%)
	BN	3.3 (6.7%)	0.1 (0.1%)
	D	2.3 (4.6%)	0 (0%)
	C	3.2 (6.2%)	0 (0.1%)
	AVG	2.8 (5.6%)	0.1 (0.3%)
APR	W	2 (4.1%)	0.2 (0.4%)
	AN	1.8 (3.5%)	0.1 (0.2%)
	BN	1.7 (3.2%)	0 (-0.1%)
	D	1.7 (3.2%)	-0.2 (-0.5%)
	C	2.5 (4.8%)	-0.1 (-0.1%)
	AVG	1.9 (3.8%)	0 (0%)
MAY	W	0.5 (1%)	-0.2 (-0.3%)
	AN	0 (-0.1%)	-0.6 (-1%)
	BN	0 (0%)	-0.3 (-0.6%)
	D	0.3 (0.5%)	0 (0%)
	C	0.7 (1.2%)	-0.1 (-0.2%)
	AVG	0.3 (0.6%)	-0.2 (-0.4%)
JUN	W	0.3 (0.6%)	-0.1 (-0.2%)
	AN	0 (-0.1%)	-0.4 (-0.7%)
	BN	-0.1 (-0.2%)	-0.3 (-0.6%)
	D	0.6 (1%)	0.1 (0.1%)
	C	0.9 (1.5%)	-0.3 (-0.5%)
	AVG	0.3 (0.6%)	-0.2 (-0.3%)
JUL	W	0.4 (0.7%)	0.3 (0.5%)
	AN	0.6 (1%)	0.3 (0.5%)
	BN	0.8 (1.4%)	0.4 (0.7%)
	D	1.4 (2.2%)	0.8 (1.3%)
	C	2.2 (3.7%)	0.8 (1.3%)
	AVG	1 (1.6%)	0.5 (0.8%)

Alternative 3: Feather River at Fish Barrier Dam			
Month	WYT	EXISTING CONDITIONS	NAA vs. A3_LLT
		vs. A3_LLT	
AUG	W	0.3 (0.4%)	0.5 (0.9%)
	AN	0.7 (1.1%)	0.5 (0.8%)
	BN	0.8 (1.3%)	0.3 (0.4%)
	D	1.5 (2.5%)	-0.4 (-0.6%)
	C	1.9 (3.1%)	-0.5 (-0.8%)
	AVG	0.9 (1.5%)	0.1 (0.2%)
SEP	W	1.4 (2.6%)	2 (3.7%)
	AN	1 (1.8%)	1.5 (2.7%)
	BN	1.8 (3.3%)	0.3 (0.5%)
	D	2.4 (4.3%)	-2.5 (-4.2%)
	C	3.8 (6.6%)	-1.6 (-2.5%)
	AVG	2 (3.6%)	0.1 (0.2%)
OCT	W	1.8 (3.4%)	-2.7 (-4.7%)
	AN	2.6 (4.7%)	-0.8 (-1.4%)
	BN	3 (5.6%)	-1.3 (-2.2%)
	D	3.7 (6.9%)	-2 (-3.3%)
	C	2.6 (4.7%)	-1.2 (-2.1%)
	AVG	2.7 (4.9%)	-1.8 (-3.1%)
NOV	W	3.2 (6.1%)	-2.7 (-4.6%)
	AN	3.2 (6.1%)	-1.7 (-2.9%)
	BN	3.6 (6.7%)	-1.9 (-3.2%)
	D	4.2 (8%)	-2.1 (-3.6%)
	C	5 (9.4%)	-0.2 (-0.4%)
	AVG	3.7 (7.1%)	-1.9 (-3.3%)
DEC	W	4 (8.2%)	-0.5 (-0.9%)
	AN	4.5 (9.2%)	-1.1 (-2%)
	BN	5 (10.3%)	-0.5 (-0.9%)
	D	4.8 (9.7%)	-0.3 (-0.6%)
	C	5.3 (10.8%)	0.6 (1.1%)
	AVG	4.6 (9.4%)	-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.

1 **11D.3.10 Feather River Low-Flow Channel (above Thermalito**
2 **Afterbay)**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
4 **Feather River Low-Flow Channel (above Thermalito Afterbay), Year-Round**

Alternative 3: Feather River Low-Flow Channel (above Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	47	50	51
	AN	47	50	50
	BN	47	50	50
	D	47	50	50
	C	47	51	51
	AVG	47	50	50
FEB	W	49	51	52
	AN	49	51	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	50	53	53
	AN	51	53	53
	BN	51	54	54
	D	52	55	55
	C	53	56	56
	AVG	51	54	54
APR	W	53	55	56
	AN	55	57	57
	BN	55	57	57
	D	55	57	57
	C	55	57	57
	AVG	55	57	57
MAY	W	59	61	61
	AN	60	62	61
	BN	60	61	61
	D	60	61	61
	C	60	62	62
	AVG	60	61	61
JUN	W	63	65	65
	AN	64	66	66
	BN	64	65	65
	D	64	66	66
	C	63	65	65
	AVG	64	65	65

Alternative 3: Feather River Low-Flow Channel (above Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LLТ
JUL	W	68	69	69
	AN	67	69	69
	BN	67	69	69
	D	67	69	69
	C	67	70	70
	AVG	67	69	69
AUG	W	66	68	68
	AN	65	67	67
	BN	66	68	68
	D	65	68	68
	C	67	70	69
	AVG	66	68	68
SEP	W	60	61	62
	AN	60	61	62
	BN	60	62	63
	D	60	65	63
	C	61	66	65
	AVG	60	63	63
OCT	W	55	60	58
	AN	57	60	59
	BN	56	60	59
	D	56	61	59
	C	56	60	59
	AVG	56	60	59
NOV	W	52	58	56
	AN	53	58	57
	BN	53	58	56
	D	53	58	57
	C	53	58	58
	AVG	53	58	56
DEC	W	48	53	52
	AN	49	54	53
	BN	48	53	53
	D	48	53	53
	C	48	53	53
	AVG	48	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather Low-Flow Channel (above Thermalito Afterbay), Year-Round**

Alternative 3: Feather River Low-Flow Channel (above Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	3.1 (6.6%)	0.3 (0.6%)
	AN	3.3 (7%)	0.2 (0.4%)
	BN	3 (6.2%)	0 (0%)
	D	3.6 (7.7%)	0.3 (0.7%)
	C	3.6 (7.6%)	-0.1 (-0.1%)
	AVG	3.3 (7%)	0.2 (0.4%)
FEB	W	2.9 (6%)	0.2 (0.5%)
	AN	2.8 (5.7%)	0.2 (0.3%)
	BN	3 (6.2%)	0.1 (0.2%)
	D	3.1 (6.2%)	0.2 (0.3%)
	C	3.4 (6.9%)	0.1 (0.2%)
	AVG	3 (6.2%)	0.2 (0.3%)
MAR	W	2.7 (5.4%)	0.3 (0.5%)
	AN	2.3 (4.6%)	0 (0.1%)
	BN	3.1 (6%)	0.1 (0.1%)
	D	2.4 (4.6%)	0 (0%)
	C	3 (5.7%)	0 (0.1%)
	AVG	2.7 (5.3%)	0.1 (0.2%)
APR	W	2 (3.8%)	0.2 (0.3%)
	AN	2 (3.7%)	0.1 (0.1%)
	BN	1.9 (3.3%)	0 (0%)
	D	2 (3.6%)	-0.2 (-0.3%)
	C	2.5 (4.5%)	-0.1 (-0.1%)
	AVG	2.1 (3.8%)	0 (0%)
MAY	W	1.3 (2.2%)	-0.1 (-0.2%)
	AN	1 (1.6%)	-0.4 (-0.6%)
	BN	1 (1.6%)	-0.2 (-0.3%)
	D	1.1 (1.9%)	0 (0%)
	C	1.5 (2.4%)	-0.1 (-0.2%)
	AVG	1.2 (2%)	-0.1 (-0.2%)
JUN	W	1.5 (2.4%)	-0.1 (-0.1%)
	AN	1.5 (2.3%)	-0.3 (-0.4%)
	BN	1.4 (2.2%)	-0.2 (-0.3%)
	D	1.9 (3%)	0 (0.1%)
	C	2 (3.1%)	-0.2 (-0.3%)
	AVG	1.6 (2.6%)	-0.1 (-0.2%)
JUL	W	1.8 (2.7%)	0.2 (0.3%)
	AN	2 (2.9%)	0.2 (0.3%)
	BN	2.1 (3.1%)	0.3 (0.4%)
	D	2.4 (3.6%)	0.5 (0.7%)
	C	3.1 (4.7%)	0.5 (0.7%)
	AVG	2.2 (3.3%)	0.3 (0.5%)

Alternative 3: Feather River Low-Flow Channel (above Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	1.8 (2.7%)	0.3 (0.5%)
	AN	2 (3.1%)	0.3 (0.4%)
	BN	2.2 (3.3%)	0.2 (0.2%)
	D	2.6 (4%)	-0.2 (-0.4%)
	C	2.9 (4.3%)	-0.3 (-0.5%)
	AVG	2.2 (3.4%)	0.1 (0.1%)
SEP	W	2.3 (3.8%)	1.5 (2.4%)
	AN	1.9 (3.2%)	1.1 (1.8%)
	BN	2.5 (4.2%)	0.2 (0.4%)
	D	3 (5%)	-1.8 (-2.8%)
	C	3.9 (6.4%)	-1.2 (-1.8%)
	AVG	2.7 (4.4%)	0.1 (0.1%)
OCT	W	2.2 (3.9%)	-2.1 (-3.6%)
	AN	2.8 (4.9%)	-0.6 (-1%)
	BN	3.2 (5.7%)	-1 (-1.6%)
	D	3.6 (6.5%)	-1.6 (-2.6%)
	C	2.8 (5%)	-0.9 (-1.6%)
	AVG	2.8 (5.1%)	-1.4 (-2.4%)
NOV	W	3.2 (6%)	-2.2 (-3.9%)
	AN	3.2 (6.1%)	-1.4 (-2.4%)
	BN	3.5 (6.6%)	-1.5 (-2.7%)
	D	4 (7.6%)	-1.8 (-3%)
	C	4.7 (8.8%)	-0.2 (-0.4%)
	AVG	3.6 (6.9%)	-1.6 (-2.8%)
DEC	W	3.9 (8%)	-0.4 (-0.7%)
	AN	4.2 (8.7%)	-0.9 (-1.8%)
	BN	4.6 (9.6%)	-0.4 (-0.8%)
	D	4.4 (9.2%)	-0.3 (-0.5%)
	C	4.9 (10.2%)	0.5 (0.9%)
	AVG	4.3 (9%)	-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.

1 **11D.3.11 Feather River High-Flow Channel (below Thermalito**
2 **Afterbay)**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
4 **Feather River High-Flow Channel (below Thermalito Afterbay), Year-Round**

Alternative 3: Feather River High-Flow Channel (below Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	47	50	50
	AN	47	50	50
	BN	46	49	49
	D	46	49	49
	C	46	50	50
	AVG	47	49	50
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	52	52
MAR	W	51	54	54
	AN	52	54	54
	BN	53	56	56
	D	54	57	57
	C	54	57	57
	AVG	53	55	55
APR	W	55	57	57
	AN	57	59	60
	BN	58	59	60
	D	57	60	60
	C	57	60	60
	AVG	57	59	59
MAY	W	61	63	63
	AN	63	64	64
	BN	63	65	64
	D	63	65	65
	C	63	66	65
	AVG	62	64	64
JUN	W	66	68	67
	AN	67	70	68
	BN	67	70	69
	D	68	71	71
	C	68	71	71
	AVG	67	70	69

Alternative 3: Feather River High-Flow Channel (below Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JUL	W	70	70	72
	AN	68	69	71
	BN	68	70	72
	D	68	70	73
	C	70	74	75
	AVG	69	71	72
AUG	W	70	70	72
	AN	67	69	71
	BN	68	70	72
	D	67	71	72
	C	70	74	74
	AVG	69	71	72
SEP	W	64	63	66
	AN	64	64	66
	BN	65	68	67
	D	64	67	67
	C	64	69	69
	AVG	64	66	67
OCT	W	58	62	61
	AN	60	63	62
	BN	59	63	62
	D	58	63	62
	C	59	63	63
	AVG	59	63	62
NOV	W	53	57	56
	AN	54	58	57
	BN	53	57	56
	D	53	57	56
	C	53	57	57
	AVG	53	57	56
DEC	W	48	51	51
	AN	48	52	52
	BN	47	51	51
	D	47	51	51
	C	47	50	51
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
 2 **Water Temperatures in the Feather High-Flow Channel (below Thermalito Afterbay), Year-Round**

Alternative 3: Feather River High-Flow Channel (below Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	3 (6.4%)	0.3 (0.7%)
	AN	3.1 (6.7%)	0.2 (0.4%)
	BN	2.8 (6.1%)	0.1 (0.2%)
	D	3.2 (6.9%)	0.3 (0.6%)
	C	3.2 (7%)	0 (-0.1%)
	AVG	3.1 (6.6%)	0.2 (0.4%)
FEB	W	2.8 (5.6%)	0.1 (0.2%)
	AN	2.9 (6%)	-0.2 (-0.3%)
	BN	2.9 (5.8%)	-0.1 (-0.1%)
	D	3 (6%)	0.2 (0.4%)
	C	3.2 (6.3%)	0.1 (0.1%)
	AVG	2.9 (5.9%)	0.1 (0.1%)
MAR	W	2.5 (4.9%)	0.2 (0.4%)
	AN	1.4 (2.6%)	-0.4 (-0.7%)
	BN	3.1 (5.8%)	0.1 (0.1%)
	D	2.7 (5%)	0.2 (0.3%)
	C	3.1 (5.9%)	0.1 (0.2%)
	AVG	2.6 (4.9%)	0.1 (0.2%)
APR	W	2.1 (3.8%)	0.1 (0.2%)
	AN	2.4 (4.2%)	0.1 (0.2%)
	BN	2 (3.4%)	0.2 (0.4%)
	D	2.6 (4.5%)	0.2 (0.4%)
	C	3 (5.2%)	0.5 (0.8%)
	AVG	2.4 (4.2%)	0.2 (0.4%)
MAY	W	2.4 (4%)	-0.3 (-0.5%)
	AN	1.7 (2.8%)	0.1 (0.2%)
	BN	1.5 (2.3%)	-0.6 (-1%)
	D	2.1 (3.4%)	-0.2 (-0.3%)
	C	2.2 (3.5%)	-0.1 (-0.1%)
	AVG	2.1 (3.3%)	-0.2 (-0.4%)
JUN	W	1.9 (2.8%)	-0.8 (-1.2%)
	AN	1 (1.5%)	-1.5 (-2.2%)
	BN	1.2 (1.8%)	-1.1 (-1.6%)
	D	2.7 (3.9%)	-0.2 (-0.3%)
	C	3.3 (4.9%)	0.3 (0.4%)
	AVG	2 (3%)	-0.7 (-1%)
JUL	W	2 (2.8%)	1.5 (2.2%)
	AN	2.8 (4.1%)	1.4 (2%)
	BN	3.6 (5.3%)	1.6 (2.2%)
	D	5 (7.4%)	2.8 (3.9%)
	C	5.7 (8.2%)	1.5 (2%)
	AVG	3.6 (5.2%)	1.8 (2.5%)

Alternative 3: Feather River High-Flow Channel (below Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	2.2 (3.1%)	1.5 (2.1%)
	AN	3.6 (5.3%)	1.8 (2.6%)
	BN	3.6 (5.3%)	1.4 (2%)
	D	5.3 (7.9%)	1.4 (1.9%)
	C	4.3 (6.2%)	0.2 (0.3%)
	AVG	3.6 (5.3%)	1.3 (1.8%)
SEP	W	2 (3.1%)	2.7 (4.3%)
	AN	1.8 (2.8%)	2.2 (3.4%)
	BN	2 (3.1%)	-0.9 (-1.3%)
	D	2.7 (4.2%)	0.1 (0.2%)
	C	4.9 (7.6%)	0 (-0.1%)
	AVG	2.5 (4%)	1 (1.6%)
OCT	W	2.8 (4.8%)	-1.2 (-1.9%)
	AN	2.9 (4.8%)	-0.5 (-0.8%)
	BN	3.1 (5.3%)	-0.5 (-0.8%)
	D	3.4 (5.9%)	-0.9 (-1.4%)
	C	3.8 (6.4%)	0 (0%)
	AVG	3.1 (5.4%)	-0.7 (-1.2%)
NOV	W	3.1 (6%)	-1.1 (-2%)
	AN	3.4 (6.3%)	-0.6 (-1.1%)
	BN	3.3 (6.3%)	-0.8 (-1.4%)
	D	3.5 (6.7%)	-1.1 (-2%)
	C	4 (7.4%)	-0.1 (-0.1%)
	AVG	3.4 (6.4%)	-0.9 (-1.5%)
DEC	W	3.5 (7.3%)	0 (0%)
	AN	4.1 (8.6%)	-0.4 (-0.8%)
	BN	4.3 (9.1%)	0.1 (0.1%)
	D	3.8 (8.2%)	-0.2 (-0.4%)
	C	4.2 (8.9%)	0.3 (0.6%)
	AVG	3.9 (8.2%)	-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.

1 **11D.3.12 Feather River at Gridley Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
3 **Feather River at Gridley Dam, Year-Round**

Alternative 3: Feather River at Gridley Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	47	50	50
	AN	47	49	50
	BN	46	49	49
	D	46	48	49
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	49	52	52
	BN	50	53	52
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	51	54	54
	AN	53	54	54
	BN	54	57	57
	D	55	57	57
	C	54	57	57
	AVG	53	56	56
APR	W	56	58	58
	AN	58	60	60
	BN	59	61	61
	D	59	61	61
	C	58	61	61
	AVG	58	60	60
MAY	W	61	64	64
	AN	64	66	66
	BN	64	66	65
	D	64	66	66
	C	64	67	67
	AVG	63	66	65
JUN	W	67	69	68
	AN	69	71	69
	BN	69	71	70
	D	69	72	72
	C	69	72	72
	AVG	68	71	70
JUL	W	70	71	73
	AN	69	70	72
	BN	69	71	73
	D	69	71	74
	C	71	75	77
	AVG	70	72	73

Alternative 3: Feather River at Gridley Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL
AUG	W	71	71	73
	AN	68	70	72
	BN	69	71	73
	D	68	72	73
	C	71	75	75
	AVG	69	72	73
SEP	W	65	64	68
	AN	65	64	67
	BN	66	69	69
	D	65	68	68
	C	66	70	70
	AVG	65	67	68
OCT	W	59	63	62
	AN	60	63	63
	BN	60	63	63
	D	59	63	62
	C	59	63	63
	AVG	59	63	62
NOV	W	53	57	56
	AN	54	58	57
	BN	53	57	56
	D	53	57	56
	C	54	57	57
	AVG	53	57	56
DEC	W	48	51	51
	AN	47	52	51
	BN	47	51	51
	D	47	51	50
	C	46	50	50
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Gridley Dam, Year-Round**

Alternative 3: Feather River at Gridley Dam			
Month	WYT	EXISTING CONDITIONS	NAA vs. A3_LL1
		vs. A3_LL1	
JAN	W	3 (6.4%)	0.3 (0.7%)
	AN	3.1 (6.7%)	0.2 (0.4%)
	BN	2.8 (6.1%)	0.1 (0.2%)
	D	3.2 (6.9%)	0.3 (0.7%)
	C	3.2 (6.9%)	-0.1 (-0.1%)
	AVG	3 (6.6%)	0.2 (0.4%)
FEB	W	2.8 (5.6%)	0.1 (0.2%)
	AN	2.9 (5.9%)	-0.2 (-0.3%)
	BN	2.9 (5.8%)	-0.1 (-0.2%)
	D	2.9 (5.8%)	0.2 (0.3%)
	C	3.2 (6.2%)	0.1 (0.1%)
	AVG	2.9 (5.8%)	0 (0.1%)
MAR	W	2.5 (4.8%)	0.2 (0.4%)
	AN	1.4 (2.6%)	-0.4 (-0.7%)
	BN	3.1 (5.7%)	0.1 (0.1%)
	D	2.6 (4.7%)	0.1 (0.2%)
	C	3 (5.5%)	0.1 (0.2%)
	AVG	2.5 (4.8%)	0.1 (0.1%)
APR	W	2.1 (3.8%)	0.1 (0.1%)
	AN	2.3 (4%)	0.1 (0.1%)
	BN	1.8 (3.1%)	0 (-0.1%)
	D	2.3 (3.9%)	-0.1 (-0.1%)
	C	2.7 (4.7%)	0.3 (0.4%)
	AVG	2.2 (3.8%)	0.1 (0.1%)
MAY	W	2.6 (4.2%)	-0.4 (-0.6%)
	AN	1.6 (2.5%)	-0.3 (-0.4%)
	BN	1.3 (2%)	-0.8 (-1.2%)
	D	1.9 (3%)	-0.2 (-0.4%)
	C	2.2 (3.5%)	0 (0%)
	AVG	2 (3.2%)	-0.4 (-0.5%)
JUN	W	2 (2.9%)	-0.8 (-1.2%)
	AN	0.9 (1.3%)	-1.6 (-2.3%)
	BN	1.1 (1.5%)	-1.2 (-1.7%)
	D	2.8 (4%)	-0.1 (-0.2%)
	C	3.3 (4.9%)	0.3 (0.4%)
	AVG	2 (3%)	-0.7 (-1%)
JUL	W	2.2 (3.1%)	1.6 (2.2%)
	AN	3 (4.4%)	1.4 (2%)
	BN	3.8 (5.6%)	1.7 (2.4%)
	D	5.4 (7.9%)	3 (4.2%)
	C	6 (8.5%)	1.6 (2.1%)
	AVG	3.8 (5.5%)	1.9 (2.6%)

Alternative 3: Feather River at Gridley Dam			
Month	WYT	EXISTING CONDITIONS vs. A3_LLT	NAA vs. A3_LLT
AUG	W	2.2 (3.1%)	1.5 (2.2%)
	AN	3.7 (5.4%)	1.9 (2.7%)
	BN	3.7 (5.4%)	1.4 (2%)
	D	5.6 (8.3%)	1.4 (1.9%)
	C	4.3 (6.1%)	0.1 (0.2%)
	AVG	3.7 (5.4%)	1.3 (1.8%)
SEP	W	2.7 (4.1%)	3.9 (6.1%)
	AN	2.3 (3.5%)	3.1 (4.8%)
	BN	2.6 (4%)	-0.2 (-0.3%)
	D	3.2 (4.9%)	-0.1 (-0.1%)
	C	4.6 (7%)	-0.2 (-0.2%)
	AVG	3 (4.6%)	1.6 (2.4%)
OCT	W	2.8 (4.8%)	-1.1 (-1.7%)
	AN	2.8 (4.7%)	-0.5 (-0.8%)
	BN	3.2 (5.3%)	-0.5 (-0.8%)
	D	3.3 (5.7%)	-0.8 (-1.3%)
	C	3.5 (6%)	-0.2 (-0.3%)
	AVG	3.1 (5.2%)	-0.7 (-1.1%)
NOV	W	3.1 (5.9%)	-1 (-1.8%)
	AN	3.3 (6.1%)	-0.6 (-1.1%)
	BN	3.3 (6.2%)	-0.7 (-1.3%)
	D	3.5 (6.6%)	-1 (-1.7%)
	C	3.9 (7.2%)	-0.1 (-0.1%)
	AVG	3.4 (6.3%)	-0.8 (-1.4%)
DEC	W	3.4 (7.2%)	0 (0%)
	AN	4 (8.5%)	-0.3 (-0.6%)
	BN	4.2 (9%)	0.1 (0.2%)
	D	3.8 (8.1%)	-0.2 (-0.3%)
	C	4.1 (8.8%)	0.3 (0.7%)
	AVG	3.8 (8.1%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.3.13 Feather River at Honcut Creek**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
3 **Feather River at Honcut Creek, Year-Round**

Alternative 3: Feather River at Honcut Creek				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	47	50	50
	AN	46	49	50
	BN	46	49	49
	D	45	48	49
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	49	53	52
	BN	50	53	53
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	52	54	54
	AN	53	55	54
	BN	54	57	57
	D	55	58	58
	C	55	58	58
	AVG	53	56	56
APR	W	56	58	58
	AN	59	61	61
	BN	60	62	61
	D	60	62	62
	C	59	62	62
	AVG	58	61	60
MAY	W	62	65	65
	AN	65	67	66
	BN	65	67	66
	D	65	67	67
	C	65	68	68
	AVG	64	67	66
JUN	W	67	70	69
	AN	69	72	70
	BN	69	72	70
	D	70	73	73
	C	69	73	73
	AVG	69	72	71
JUL	W	71	72	73
	AN	69	71	72
	BN	69	72	73
	D	69	72	75
	C	71	76	77
	AVG	70	72	74

Alternative 3: Feather River at Honcut Creek				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LLT
AUG	W	72	72	74
	AN	69	71	72
	BN	69	72	73
	D	68	73	74
	C	72	76	76
	AVG	70	73	74
SEP	W	66	64	69
	AN	66	65	69
	BN	67	69	70
	D	66	70	69
	C	66	71	71
	AVG	66	68	69
OCT	W	59	63	62
	AN	60	64	63
	BN	60	64	63
	D	59	63	62
	C	60	64	63
	AVG	60	63	63
NOV	W	53	57	56
	AN	54	58	57
	BN	53	57	56
	D	53	57	56
	C	54	57	57
	AVG	53	57	56
DEC	W	47	51	51
	AN	47	52	51
	BN	46	51	51
	D	46	50	50
	C	46	50	50
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Honcut Creek, Year-Round**

Alternative 3: Feather River at Honcut Creek			
Month	WYT	EXISTING CONDITIONS vs. A3_LLT	NAA vs. A3_LLT
JAN	W	3 (6.4%)	0.3 (0.6%)
	AN	3.1 (6.7%)	0.2 (0.4%)
	BN	2.8 (6.1%)	0.1 (0.2%)
	D	3.2 (7%)	0.3 (0.7%)
	C	3.1 (6.8%)	-0.1 (-0.2%)
	AVG	3 (6.6%)	0.2 (0.4%)
FEB	W	2.8 (5.6%)	0.1 (0.2%)
	AN	2.9 (5.8%)	-0.2 (-0.3%)
	BN	2.9 (5.8%)	-0.1 (-0.2%)
	D	2.9 (5.8%)	0.2 (0.3%)
	C	3.1 (6.1%)	0 (0.1%)
	AVG	2.9 (5.8%)	0 (0%)
MAR	W	2.5 (4.8%)	0.2 (0.4%)
	AN	1.3 (2.5%)	-0.4 (-0.7%)
	BN	3 (5.6%)	0 (0%)
	D	2.5 (4.6%)	0 (0.1%)
	C	2.9 (5.3%)	0.1 (0.2%)
	AVG	2.5 (4.7%)	0 (0.1%)
APR	W	2.1 (3.8%)	0.1 (0.1%)
	AN	2.3 (3.9%)	0 (0%)
	BN	1.7 (2.9%)	-0.2 (-0.3%)
	D	2.1 (3.5%)	-0.3 (-0.4%)
	C	2.5 (4.2%)	0 (0%)
	AVG	2.1 (3.6%)	-0.1 (-0.1%)
MAY	W	2.8 (4.5%)	-0.4 (-0.6%)
	AN	1.5 (2.3%)	-0.6 (-0.8%)
	BN	1.1 (1.7%)	-0.9 (-1.3%)
	D	1.8 (2.7%)	-0.3 (-0.4%)
	C	2.3 (3.5%)	0 (-0.1%)
	AVG	2 (3.2%)	-0.4 (-0.6%)
JUN	W	2 (3%)	-0.8 (-1.2%)
	AN	0.8 (1.2%)	-1.6 (-2.3%)
	BN	1 (1.5%)	-1.2 (-1.7%)
	D	2.8 (4%)	-0.1 (-0.2%)
	C	3.3 (4.8%)	0.2 (0.3%)
	AVG	2.1 (3%)	-0.7 (-1%)
JUL	W	2.3 (3.3%)	1.6 (2.2%)
	AN	3.1 (4.5%)	1.5 (2.1%)
	BN	4 (5.8%)	1.7 (2.4%)
	D	5.6 (8.1%)	3 (4.2%)
	C	6.1 (8.6%)	1.6 (2.2%)
	AVG	4 (5.7%)	1.9 (2.7%)

Alternative 3: Feather River at Honcut Creek			
Month	WYT	EXISTING CONDITIONS vs. A3_LLT	NAA vs. A3_LLT
AUG	W	2.3 (3.2%)	1.6 (2.2%)
	AN	3.8 (5.5%)	1.9 (2.6%)
	BN	3.9 (5.6%)	1.5 (2%)
	D	5.9 (8.6%)	1.3 (1.8%)
	C	4.3 (6%)	0 (0.1%)
	AVG	3.9 (5.5%)	1.3 (1.8%)
SEP	W	3.2 (4.9%)	4.8 (7.4%)
	AN	2.7 (4.1%)	3.6 (5.6%)
	BN	3.1 (4.6%)	0.2 (0.3%)
	D	3.6 (5.4%)	-0.3 (-0.4%)
	C	4.4 (6.6%)	-0.2 (-0.3%)
	AVG	3.4 (5.1%)	2 (2.9%)
OCT	W	2.8 (4.8%)	-1 (-1.6%)
	AN	2.7 (4.4%)	-0.6 (-0.9%)
	BN	3.2 (5.2%)	-0.5 (-0.7%)
	D	3.2 (5.5%)	-0.8 (-1.3%)
	C	3.4 (5.6%)	-0.4 (-0.6%)
	AVG	3 (5.1%)	-0.7 (-1.1%)
NOV	W	3.1 (5.9%)	-1 (-1.7%)
	AN	3.3 (6.1%)	-0.6 (-1%)
	BN	3.3 (6.2%)	-0.7 (-1.2%)
	D	3.4 (6.5%)	-0.9 (-1.6%)
	C	3.8 (7.1%)	-0.1 (-0.1%)
	AVG	3.3 (6.3%)	-0.7 (-1.2%)
DEC	W	3.4 (7.1%)	0 (0.1%)
	AN	4 (8.4%)	-0.3 (-0.7%)
	BN	4.1 (8.9%)	0.1 (0.2%)
	D	3.7 (8%)	-0.1 (-0.3%)
	C	4 (8.6%)	0.4 (0.8%)
	AVG	3.8 (8%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.3.14 Feather River at the Confluence with the Sacramento**
2 **River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
4 **Feather River at Confluence with the Sacramento River, Year-Round**

Alternative 3: Feather River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	47	48	49
	AN	46	48	48
	BN	46	47	47
	D	45	47	47
	C	45	48	48
	AVG	46	48	48
FEB	W	50	52	52
	AN	50	52	52
	BN	50	51	51
	D	50	52	52
	C	51	53	53
	AVG	50	52	52
MAR	W	53	55	55
	AN	54	56	56
	BN	55	57	57
	D	55	57	57
	C	56	58	58
	AVG	55	56	56
APR	W	59	60	60
	AN	60	62	62
	BN	61	62	62
	D	62	64	64
	C	63	65	65
	AVG	61	63	62
MAY	W	65	68	67
	AN	66	69	69
	BN	67	69	69
	D	68	70	70
	C	68	71	71
	AVG	66	69	69
JUN	W	70	73	73
	AN	71	75	74
	BN	72	75	74
	D	73	77	77
	C	72	76	76
	AVG	71	75	75

Alternative 3: Feather River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JUL	W	74	76	78
	AN	72	75	76
	BN	73	76	77
	D	73	76	78
	C	75	79	81
	AVG	73	76	78
AUG	W	73	76	77
	AN	71	74	75
	BN	72	75	76
	D	72	76	77
	C	75	79	79
	AVG	73	76	77
SEP	W	71	70	75
	AN	70	70	73
	BN	70	73	74
	D	70	74	74
	C	70	74	74
	AVG	70	72	74
OCT	W	61	64	63
	AN	62	64	64
	BN	61	64	64
	D	61	64	64
	C	62	65	65
	AVG	61	64	64
NOV	W	52	55	55
	AN	53	56	56
	BN	53	55	55
	D	52	55	55
	C	53	56	56
	AVG	53	55	55
DEC	W	47	49	49
	AN	47	50	50
	BN	46	49	49
	D	46	49	49
	C	45	47	48
	AVG	46	49	49

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

Alternative 3: Feather River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	2.1 (4.5%)	0.2 (0.5%)
	AN	2 (4.3%)	0.2 (0.3%)
	BN	1.9 (4.2%)	0.1 (0.2%)
	D	2.4 (5.3%)	0.3 (0.6%)
	C	2.2 (4.8%)	-0.1 (-0.2%)
	AVG	2.1 (4.6%)	0.2 (0.3%)
FEB	W	2 (4.1%)	0.1 (0.2%)
	AN	1.9 (3.9%)	0 (-0.1%)
	BN	1.8 (3.6%)	0.1 (0.2%)
	D	2 (4%)	0.1 (0.2%)
	C	2.2 (4.3%)	0 (0.1%)
	AVG	2 (4%)	0.1 (0.2%)
MAR	W	1.8 (3.4%)	0.1 (0.1%)
	AN	1.2 (2.3%)	-0.1 (-0.2%)
	BN	1.9 (3.4%)	0 (0.1%)
	D	1.8 (3.2%)	0 (0%)
	C	2.1 (3.8%)	0 (0.1%)
	AVG	1.8 (3.2%)	0 (0%)
APR	W	1.6 (2.8%)	0 (0%)
	AN	1.9 (3.1%)	0 (0%)
	BN	1.5 (2.4%)	-0.2 (-0.3%)
	D	1.8 (3%)	-0.2 (-0.3%)
	C	2 (3.2%)	-0.2 (-0.3%)
	AVG	1.7 (2.9%)	-0.1 (-0.2%)
MAY	W	2.8 (4.4%)	-0.1 (-0.2%)
	AN	2.5 (3.8%)	-0.4 (-0.6%)
	BN	2 (3.1%)	-0.5 (-0.7%)
	D	2.4 (3.5%)	-0.3 (-0.4%)
	C	2.7 (4%)	0 (0%)
	AVG	2.5 (3.8%)	-0.3 (-0.4%)
JUN	W	3 (4.4%)	-0.4 (-0.6%)
	AN	2.5 (3.4%)	-0.9 (-1.2%)
	BN	2.6 (3.6%)	-0.8 (-1.1%)
	D	3.7 (5.1%)	0 (-0.1%)
	C	3.6 (5%)	0.1 (0.2%)
	AVG	3.1 (4.4%)	-0.4 (-0.5%)
JUL	W	4 (5.4%)	1.4 (1.8%)
	AN	3.9 (5.3%)	1.2 (1.6%)
	BN	4.5 (6.2%)	1.4 (1.8%)
	D	5.7 (7.9%)	2.4 (3.1%)
	C	5.9 (8%)	1.4 (1.8%)
	AVG	4.7 (6.5%)	1.6 (2.1%)

Alternative 3: Feather River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	3.8 (5.3%)	1.3 (1.7%)
	AN	4 (5.6%)	1.3 (1.8%)
	BN	4.3 (5.9%)	1.2 (1.6%)
	D	5.9 (8.2%)	1.1 (1.5%)
	C	4.4 (5.9%)	0.1 (0.1%)
	AVG	4.5 (6.2%)	1.1 (1.4%)
SEP	W	4.3 (6.1%)	5 (7.1%)
	AN	3.6 (5.1%)	3.7 (5.2%)
	BN	3.9 (5.5%)	0.9 (1.2%)
	D	4.2 (6.1%)	-0.2 (-0.2%)
	C	3.6 (5.1%)	-0.1 (-0.1%)
	AVG	4 (5.7%)	2.2 (3%)
OCT	W	2.7 (4.4%)	-0.5 (-0.7%)
	AN	2.2 (3.6%)	-0.3 (-0.5%)
	BN	2.8 (4.6%)	-0.1 (-0.2%)
	D	2.7 (4.4%)	-0.4 (-0.6%)
	C	2.7 (4.4%)	-0.6 (-0.9%)
	AVG	2.6 (4.3%)	-0.4 (-0.6%)
NOV	W	2.5 (4.7%)	-0.3 (-0.5%)
	AN	2.6 (5%)	-0.2 (-0.4%)
	BN	2.6 (4.9%)	-0.3 (-0.5%)
	D	2.6 (5%)	-0.2 (-0.3%)
	C	2.8 (5.3%)	0 (0.1%)
	AVG	2.6 (4.9%)	-0.2 (-0.4%)
DEC	W	2.1 (4.4%)	0.2 (0.4%)
	AN	2.8 (6%)	-0.1 (-0.2%)
	BN	2.9 (6.4%)	0.2 (0.4%)
	D	2.6 (5.6%)	0 (0%)
	C	2.9 (6.4%)	0.5 (1.1%)
	AVG	2.6 (5.5%)	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.

1 **11D.3.15 American River below Nimbus Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
3 **American River below Nimbus Dam, Year-Round**

Alternative 3: American River below Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	47	50	50
	AN	47	49	50
	BN	46	49	49
	D	47	49	49
	C	47	50	50
	AVG	47	50	50
FEB	W	48	51	51
	AN	48	52	52
	BN	47	51	51
	D	49	52	52
	C	51	54	54
	AVG	48	52	52
MAR	W	52	55	55
	AN	53	56	56
	BN	53	56	56
	D	53	57	57
	C	55	58	58
	AVG	53	56	56
APR	W	56	59	59
	AN	57	60	60
	BN	57	61	61
	D	59	62	62
	C	59	63	63
	AVG	58	60	60
MAY	W	60	64	64
	AN	61	66	65
	BN	61	65	65
	D	64	67	66
	C	64	68	68
	AVG	62	66	65
JUN	W	64	67	66
	AN	65	68	67
	BN	65	68	67
	D	67	69	69
	C	68	72	72
	AVG	66	68	68
JUL	W	66	68	68
	AN	66	66	67
	BN	66	67	68
	D	67	69	70
	C	70	74	74
	AVG	67	69	69

Alternative 3: American River below Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL
AUG	W	67	70	70
	AN	67	69	70
	BN	67	69	71
	D	67	71	72
	C	70	76	77
	AVG	67	71	71
SEP	W	65	68	68
	AN	66	69	69
	BN	66	69	69
	D	66	71	71
	C	68	73	73
	AVG	66	70	70
OCT	W	58	68	67
	AN	59	68	68
	BN	58	68	67
	D	59	67	67
	C	61	68	68
	AVG	59	68	67
NOV	W	57	61	61
	AN	57	61	61
	BN	56	61	61
	D	57	61	60
	C	58	61	61
	AVG	57	61	61
DEC	W	50	53	53
	AN	51	53	53
	BN	50	52	53
	D	50	53	53
	C	50	52	52
	AVG	50	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the American River below Nimbus Dam, Year-Round**

Alternative 3: American River below Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A3_LLT	NAA vs. A3_LLT
JAN	W	3.1 (6.7%)	0 (0%)
	AN	2.8 (5.9%)	0.1 (0.2%)
	BN	3.1 (6.8%)	0.1 (0.3%)
	D	2.8 (6.1%)	0 (-0.1%)
	C	2.9 (6.1%)	-0.1 (-0.2%)
	AVG	3 (6.4%)	0 (0%)
FEB	W	3.4 (7.2%)	0 (0%)
	AN	3.8 (7.9%)	0 (0%)
	BN	3.3 (7%)	0 (0%)
	D	3.4 (7%)	0 (0%)
	C	3.2 (6.4%)	-0.1 (-0.1%)
	AVG	3.4 (7.1%)	0 (0%)
MAR	W	3.1 (6%)	0 (0%)
	AN	3 (5.7%)	0.1 (0.2%)
	BN	2.6 (5%)	0 (0%)
	D	3.5 (6.5%)	0 (0.1%)
	C	2.8 (5.2%)	-0.1 (-0.2%)
	AVG	3.1 (5.8%)	0 (0%)
APR	W	3 (5.3%)	0 (0%)
	AN	3.2 (5.5%)	0 (0%)
	BN	3.1 (5.3%)	-0.1 (-0.1%)
	D	2.6 (4.4%)	0 (0.1%)
	C	3.1 (5.2%)	-0.2 (-0.2%)
	AVG	2.9 (5.1%)	0 (0%)
MAY	W	4.1 (6.8%)	-0.1 (-0.2%)
	AN	4.4 (7.2%)	-0.4 (-0.6%)
	BN	3.7 (6.1%)	-0.4 (-0.6%)
	D	2.3 (3.6%)	-0.7 (-1.1%)
	C	3.7 (5.7%)	0 (0%)
	AVG	3.6 (5.8%)	-0.3 (-0.5%)
JUN	W	2.4 (3.7%)	-0.6 (-0.9%)
	AN	2 (3%)	-0.9 (-1.3%)
	BN	1.6 (2.5%)	-1.3 (-2%)
	D	1.9 (2.8%)	0 (0.1%)
	C	4 (5.9%)	-0.3 (-0.4%)
	AVG	2.3 (3.5%)	-0.6 (-0.9%)
JUL	W	1.6 (2.4%)	0.1 (0.1%)
	AN	1 (1.6%)	0.6 (0.9%)
	BN	2 (3%)	0.8 (1.2%)
	D	3.1 (4.7%)	0.9 (1.3%)
	C	4.3 (6.2%)	-0.1 (-0.1%)
	AVG	2.3 (3.5%)	0.4 (0.6%)

Alternative 3: American River below Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	3 (4.5%)	-0.2 (-0.2%)
	AN	2.7 (3.9%)	0.6 (0.8%)
	BN	3.2 (4.8%)	1.4 (2%)
	D	5 (7.5%)	0.8 (1.1%)
	C	6.9 (9.9%)	0.6 (0.8%)
	AVG	4 (6%)	0.5 (0.8%)
SEP	W	3.4 (5.3%)	0.8 (1.1%)
	AN	3.8 (5.8%)	0.7 (1%)
	BN	2.8 (4.2%)	0 (0%)
	D	4.8 (7.3%)	-0.2 (-0.2%)
	C	4.9 (7.2%)	0.1 (0.1%)
	AVG	3.9 (5.9%)	0.3 (0.5%)
OCT	W	8.6 (14.7%)	-0.7 (-1.1%)
	AN	8.9 (15.1%)	0.2 (0.3%)
	BN	8.7 (15%)	-1 (-1.5%)
	D	8.3 (14.1%)	0 (0%)
	C	7.1 (11.7%)	-0.3 (-0.4%)
	AVG	8.4 (14.2%)	-0.4 (-0.6%)
NOV	W	3.8 (6.7%)	0 (-0.1%)
	AN	3.7 (6.5%)	-0.1 (-0.2%)
	BN	4.4 (7.8%)	0 (0%)
	D	3.8 (6.6%)	-0.1 (-0.2%)
	C	3.5 (6.1%)	-0.1 (-0.1%)
	AVG	3.8 (6.8%)	-0.1 (-0.1%)
DEC	W	2.7 (5.3%)	0.1 (0.1%)
	AN	2.8 (5.4%)	0.1 (0.1%)
	BN	2.8 (5.6%)	0.1 (0.2%)
	D	2.6 (5.2%)	-0.1 (-0.2%)
	C	2 (3.9%)	-0.6 (-1.1%)
	AVG	2.6 (5.2%)	-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.

1 **11D.3.16 American River at Watt Avenue**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
3 **American River at Watt Avenue, Year-Round**

Alternative 3: American River at Watt Avenue				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	46	49	49
	C	46	49	49
	AVG	46	49	49
FEB	W	48	52	52
	AN	48	52	52
	BN	48	51	51
	D	49	52	52
	C	51	54	54
	AVG	49	52	52
MAR	W	53	56	56
	AN	53	56	56
	BN	54	56	56
	D	54	57	57
	C	56	58	58
	AVG	54	56	56
APR	W	56	59	59
	AN	58	61	61
	BN	58	61	61
	D	60	63	63
	C	61	64	64
	AVG	58	61	61
MAY	W	61	65	65
	AN	62	67	67
	BN	62	67	66
	D	65	68	67
	C	66	69	69
	AVG	63	67	67
JUN	W	65	68	67
	AN	67	70	69
	BN	67	70	69
	D	69	71	71
	C	69	73	73
	AVG	67	70	69
JUL	W	68	70	70
	AN	67	68	69
	BN	67	69	70
	D	68	71	72
	C	72	76	76
	AVG	68	71	71

Alternative 3: American River at Watt Avenue				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL
AUG	W	68	72	72
	AN	69	72	72
	BN	69	72	73
	D	69	73	74
	C	71	77	77
	AVG	69	73	73
SEP	W	66	69	70
	AN	66	70	71
	BN	67	70	70
	D	67	72	72
	C	69	73	73
	AVG	67	71	71
OCT	W	59	67	67
	AN	60	67	68
	BN	59	68	67
	D	60	67	67
	C	61	68	68
	AVG	60	67	67
NOV	W	56	60	60
	AN	56	60	60
	BN	56	60	60
	D	56	59	59
	C	57	60	60
	AVG	56	60	60
DEC	W	50	52	52
	AN	50	52	52
	BN	49	51	52
	D	49	52	52
	C	49	51	51
	AVG	49	52	52

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the American River at Watt Avenue, Year-Round**

Alternative 3: American River at Watt Avenue			
Month	WYT	EXISTING CONDITIONS vs. A3_LLT	NAA vs. A3_LLT
JAN	W	3.1 (6.6%)	0 (0%)
	AN	2.8 (5.9%)	0.1 (0.1%)
	BN	3.1 (6.7%)	0.2 (0.4%)
	D	2.7 (6%)	0 (0%)
	C	2.8 (6.1%)	-0.1 (-0.2%)
	AVG	2.9 (6.3%)	0 (0.1%)
FEB	W	3.4 (7.1%)	0 (0%)
	AN	3.7 (7.7%)	0 (0%)
	BN	3.2 (6.6%)	0 (0%)
	D	3.2 (6.5%)	0 (0%)
	C	3.2 (6.3%)	0 (-0.1%)
	AVG	3.3 (6.8%)	0 (0%)
MAR	W	3 (5.7%)	0 (0%)
	AN	2.9 (5.5%)	0.1 (0.1%)
	BN	2.5 (4.7%)	0 (-0.1%)
	D	3.3 (6%)	0.1 (0.1%)
	C	2.6 (4.7%)	-0.1 (-0.1%)
	AVG	2.9 (5.4%)	0 (0%)
APR	W	2.9 (5.1%)	0 (0%)
	AN	3.1 (5.3%)	0 (0%)
	BN	2.9 (5%)	-0.1 (-0.1%)
	D	2.5 (4.1%)	-0.1 (-0.2%)
	C	2.8 (4.6%)	0 (0%)
	AVG	2.8 (4.8%)	0 (-0.1%)
MAY	W	4.1 (6.8%)	-0.2 (-0.2%)
	AN	4.3 (7%)	-0.5 (-0.7%)
	BN	3.6 (5.7%)	-0.5 (-0.8%)
	D	2.3 (3.5%)	-0.7 (-1%)
	C	3.3 (5%)	0 (0%)
	AVG	3.5 (5.6%)	-0.4 (-0.6%)
JUN	W	2.6 (4.1%)	-0.8 (-1.2%)
	AN	1.9 (2.8%)	-1 (-1.5%)
	BN	1.7 (2.5%)	-1.4 (-2%)
	D	2.3 (3.3%)	0 (0%)
	C	3.7 (5.4%)	-0.2 (-0.3%)
	AVG	2.4 (3.7%)	-0.7 (-1%)
JUL	W	2.3 (3.3%)	0.2 (0.3%)
	AN	1.5 (2.3%)	0.7 (1%)
	BN	2.7 (4%)	1 (1.4%)
	D	3.8 (5.6%)	0.9 (1.3%)
	C	3.8 (5.4%)	0 (0%)
	AVG	2.8 (4.1%)	0.5 (0.7%)

Alternative 3: American River at Watt Avenue			
Month	WYT	EXISTING CONDITIONS vs. A3_LLT	NAA vs. A3_LLT
AUG	W	4 (5.8%)	-0.2 (-0.2%)
	AN	3.4 (5%)	0.5 (0.7%)
	BN	4 (5.9%)	1.5 (2.1%)
	D	5.4 (7.9%)	0.8 (1.1%)
	C	5.7 (8.1%)	0.3 (0.4%)
	AVG	4.5 (6.5%)	0.5 (0.7%)
SEP	W	4.2 (6.4%)	1.3 (1.8%)
	AN	4.2 (6.4%)	0.8 (1.1%)
	BN	3.5 (5.2%)	0.1 (0.2%)
	D	4.7 (7%)	-0.1 (-0.1%)
	C	4.4 (6.4%)	0.1 (0.1%)
	AVG	4.2 (6.3%)	0.5 (0.7%)
OCT	W	7.2 (12.2%)	-0.5 (-0.8%)
	AN	7.7 (12.8%)	0.2 (0.3%)
	BN	7.5 (12.7%)	-0.7 (-1.1%)
	D	6.9 (11.5%)	0.1 (0.1%)
	C	6.1 (9.9%)	-0.1 (-0.2%)
	AVG	7.1 (11.9%)	-0.3 (-0.4%)
NOV	W	3.5 (6.2%)	-0.1 (-0.2%)
	AN	3.4 (6.1%)	-0.2 (-0.3%)
	BN	4 (7.2%)	0 (0%)
	D	3.4 (6%)	-0.1 (-0.1%)
	C	3.4 (6%)	0 (0%)
	AVG	3.5 (6.3%)	-0.1 (-0.1%)
DEC	W	2.6 (5.2%)	0.1 (0.2%)
	AN	2.6 (5.3%)	0.1 (0.1%)
	BN	2.7 (5.6%)	0.1 (0.2%)
	D	2.4 (4.9%)	-0.1 (-0.1%)
	C	2.1 (4.4%)	-0.2 (-0.3%)
	AVG	2.5 (5.1%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.3.17 American River at the Confluence with the**
2 **Sacramento River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
4 **American River at the Confluence with the Sacramento River, Year-Round**

Alternative 3: American River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	47	50	50
	AN	46	49	49
	BN	46	48	49
	D	46	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	48	52	52
	AN	48	52	52
	BN	48	51	51
	D	49	52	53
	C	51	55	55
	AVG	49	52	52
MAR	W	53	56	56
	AN	53	56	56
	BN	54	56	56
	D	55	58	58
	C	56	59	59
	AVG	54	57	57
APR	W	57	60	60
	AN	58	61	61
	BN	59	62	62
	D	61	63	63
	C	62	64	64
	AVG	59	62	62
MAY	W	61	66	65
	AN	63	68	67
	BN	63	67	67
	D	66	69	68
	C	67	70	70
	AVG	64	67	67
JUN	W	65	69	68
	AN	68	71	70
	BN	68	71	69
	D	70	72	72
	C	70	74	74
	AVG	68	71	70

Alternative 3: American River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JUL	W	69	71	71
	AN	68	69	70
	BN	68	70	71
	D	69	72	73
	C	73	76	76
	AVG	69	72	72
AUG	W	69	73	73
	AN	69	73	73
	BN	70	73	74
	D	69	74	75
	C	72	77	77
	AVG	70	74	74
SEP	W	66	69	71
	AN	67	70	71
	BN	67	71	71
	D	68	72	72
	C	69	74	74
	AVG	67	71	72
OCT	W	60	67	66
	AN	60	67	67
	BN	60	67	67
	D	60	66	66
	C	62	67	67
	AVG	60	67	67
NOV	W	56	60	59
	AN	56	60	59
	BN	55	59	59
	D	56	59	59
	C	57	60	60
	AVG	56	59	59
DEC	W	49	52	52
	AN	49	52	52
	BN	48	51	51
	D	49	51	51
	C	48	50	50
	AVG	49	51	51

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

Alternative 3: American River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	3.1 (6.6%)	0 (0%)
	AN	2.8 (6%)	0.1 (0.1%)
	BN	3.1 (6.7%)	0.2 (0.5%)
	D	2.7 (5.8%)	0 (0%)
	C	2.9 (6.2%)	-0.1 (-0.1%)
	AVG	2.9 (6.3%)	0 (0.1%)
FEB	W	3.4 (7%)	0 (0%)
	AN	3.7 (7.6%)	0 (0%)
	BN	3.1 (6.5%)	0 (0%)
	D	3.2 (6.4%)	0 (0.1%)
	C	3.1 (6.1%)	0 (-0.1%)
	AVG	3.3 (6.7%)	0 (0%)
MAR	W	2.9 (5.6%)	0 (0%)
	AN	2.9 (5.4%)	0.1 (0.1%)
	BN	2.5 (4.6%)	0 (-0.1%)
	D	3.2 (5.8%)	0.1 (0.1%)
	C	2.5 (4.5%)	0 (-0.1%)
	AVG	2.8 (5.3%)	0 (0%)
APR	W	2.8 (5%)	0 (0%)
	AN	3 (5.2%)	0 (0%)
	BN	2.9 (4.9%)	-0.1 (-0.2%)
	D	2.4 (4%)	-0.1 (-0.2%)
	C	2.7 (4.4%)	0 (0.1%)
	AVG	2.7 (4.7%)	0 (-0.1%)
MAY	W	4.2 (6.8%)	-0.2 (-0.2%)
	AN	4.3 (6.9%)	-0.5 (-0.8%)
	BN	3.5 (5.5%)	-0.6 (-0.9%)
	D	2.3 (3.5%)	-0.7 (-1%)
	C	3.2 (4.8%)	0 (0%)
	AVG	3.5 (5.5%)	-0.4 (-0.6%)
JUN	W	2.8 (4.3%)	-0.9 (-1.3%)
	AN	1.9 (2.8%)	-1.1 (-1.6%)
	BN	1.7 (2.5%)	-1.4 (-2%)
	D	2.5 (3.5%)	0 (-0.1%)
	C	3.7 (5.2%)	-0.2 (-0.3%)
	AVG	2.5 (3.7%)	-0.7 (-1%)
JUL	W	2.6 (3.8%)	0.2 (0.3%)
	AN	1.8 (2.7%)	0.8 (1.1%)
	BN	3.1 (4.5%)	1.1 (1.5%)
	D	4.1 (5.9%)	0.9 (1.3%)
	C	3.7 (5.1%)	-0.1 (-0.1%)
	AVG	3.1 (4.4%)	0.6 (0.8%)

Alternative 3: American River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	4.4 (6.5%)	-0.2 (-0.2%)
	AN	3.8 (5.5%)	0.5 (0.6%)
	BN	4.4 (6.3%)	1.5 (2%)
	D	5.5 (7.9%)	0.8 (1%)
	C	5.3 (7.3%)	0.2 (0.2%)
	AVG	4.7 (6.7%)	0.5 (0.6%)
SEP	W	4.6 (6.9%)	1.5 (2.1%)
	AN	4.4 (6.6%)	0.8 (1.1%)
	BN	3.8 (5.7%)	0.2 (0.3%)
	D	4.6 (6.8%)	-0.1 (-0.1%)
	C	4.2 (6%)	0 (0%)
	AVG	4.4 (6.5%)	0.6 (0.9%)
OCT	W	6.6 (11%)	-0.4 (-0.6%)
	AN	7 (11.6%)	0.2 (0.2%)
	BN	6.8 (11.4%)	-0.6 (-0.9%)
	D	6.2 (10.3%)	0.1 (0.2%)
	C	5.5 (8.9%)	-0.1 (-0.1%)
	AVG	6.4 (10.7%)	-0.2 (-0.3%)
NOV	W	3.3 (5.9%)	-0.1 (-0.2%)
	AN	3.3 (5.9%)	-0.2 (-0.3%)
	BN	3.8 (6.8%)	0 (0%)
	D	3.2 (5.7%)	-0.1 (-0.1%)
	C	3.3 (5.8%)	0.1 (0.1%)
	AVG	3.4 (6%)	-0.1 (-0.1%)
DEC	W	2.5 (5.2%)	0.1 (0.2%)
	AN	2.6 (5.2%)	0.1 (0.1%)
	BN	2.7 (5.6%)	0.1 (0.2%)
	D	2.3 (4.7%)	0 (-0.1%)
	C	2.1 (4.3%)	-0.1 (-0.2%)
	AVG	2.5 (5%)	0 (0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.3.18 Stanislaus River at Knights Ferry**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
3 **Stanislaus River at Knights Ferry, Year-Round**

Alternative 3: Stanislaus River at Knights Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	48	51	51
	C	49	52	52
	AVG	49	52	52
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	49	52	52
	AN	49	53	53
	BN	51	54	54
	D	51	54	54
	C	52	55	55
	AVG	50	54	54
APR	W	50	53	53
	AN	50	54	54
	BN	51	55	55
	D	52	55	55
	C	53	57	57
	AVG	51	54	54
MAY	W	51	55	55
	AN	53	56	56
	BN	54	57	57
	D	55	58	58
	C	56	59	59
	AVG	53	57	57
JUN	W	54	56	56
	AN	56	59	59
	BN	58	61	61
	D	59	63	63
	C	60	64	64
	AVG	57	60	60
JUL	W	57	59	59
	AN	59	62	62
	BN	60	63	63
	D	61	65	65
	C	62	66	66
	AVG	59	63	63

Alternative 3: Stanislaus River at Knights Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL
AUG	W	58	61	61
	AN	60	63	63
	BN	60	64	64
	D	61	65	65
	C	62	67	67
	AVG	60	64	64
SEP	W	59	62	62
	AN	60	64	64
	BN	61	64	64
	D	62	65	65
	C	63	67	67
	AVG	61	64	64
OCT	W	59	62	62
	AN	59	62	62
	BN	59	62	62
	D	58	62	62
	C	60	64	64
	AVG	59	63	63
NOV	W	56	59	59
	AN	56	59	59
	BN	56	59	59
	D	56	59	59
	C	57	61	61
	AVG	56	60	60
DEC	W	52	55	55
	AN	52	55	55
	BN	51	54	54
	D	51	54	54
	C	52	55	55
	AVG	51	55	55

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Knights Ferry, Year-Round**

Alternative 3: Stanislaus River at Knights Ferry			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	3.1 (6.3%)	0 (0%)
	AN	3.1 (6.4%)	0 (0%)
	BN	3.1 (6.4%)	0 (0%)
	D	3 (6.3%)	0 (0%)
	C	3 (6.2%)	0 (0%)
	AVG	3.1 (6.3%)	0 (0%)
FEB	W	3.1 (6.4%)	0 (0%)
	AN	3.2 (6.5%)	0 (0%)
	BN	3 (6.2%)	0 (0%)
	D	3.2 (6.5%)	0 (0%)
	C	3.1 (6.2%)	0 (0%)
	AVG	3.1 (6.4%)	0 (0%)
MAR	W	3.2 (6.6%)	0 (0%)
	AN	3.6 (7.3%)	0 (0%)
	BN	3.1 (6.1%)	0 (0%)
	D	3.3 (6.5%)	0 (0%)
	C	3 (5.8%)	0 (0%)
	AVG	3.3 (6.5%)	0 (0%)
APR	W	3.1 (6.2%)	0 (0%)
	AN	3.3 (6.6%)	0 (0%)
	BN	3.4 (6.6%)	0 (0%)
	D	3.5 (6.7%)	0 (0%)
	C	3.6 (6.7%)	0 (0%)
	AVG	3.3 (6.5%)	0 (0%)
MAY	W	3 (5.9%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)
	BN	3.5 (6.5%)	0 (0%)
	D	3.4 (6.2%)	0 (0%)
	C	3.3 (5.9%)	0 (0%)
	AVG	3.2 (6%)	0 (0%)
JUN	W	2.6 (4.8%)	0 (0%)
	AN	3.3 (6%)	0 (0%)
	BN	3.6 (6.3%)	0 (0%)
	D	3.8 (6.5%)	0 (0%)
	C	4.1 (6.9%)	0 (0%)
	AVG	3.4 (6%)	0 (0%)
JUL	W	2.5 (4.4%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)
	BN	3.5 (5.9%)	0 (0%)
	D	3.7 (6.1%)	0 (0%)
	C	4.1 (6.6%)	0 (0%)
	AVG	3.3 (5.6%)	0 (0%)

Alternative 3: Stanislaus River at Knights Ferry			
Month	WYT	EXISTING CONDITIONS vs. A3_LLT	NAA vs. A3_LLT
AUG	W	3.4 (5.8%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)
	BN	3.5 (5.8%)	0 (0%)
	D	3.6 (5.8%)	0 (0%)
	C	4.3 (6.9%)	0 (0%)
	AVG	3.6 (6%)	0 (0%)
SEP	W	3.5 (6%)	0 (0%)
	AN	3.6 (6%)	0 (0%)
	BN	3.6 (5.9%)	0 (0%)
	D	3.7 (6%)	0 (0%)
	C	4 (6.3%)	0.1 (0.1%)
	AVG	3.7 (6%)	0 (0%)
OCT	W	3.5 (5.9%)	0 (0%)
	AN	3 (5.1%)	0 (0%)
	BN	3.3 (5.6%)	0 (0%)
	D	3.4 (5.9%)	0 (0%)
	C	3.7 (6.1%)	0 (0%)
	AVG	3.4 (5.7%)	0 (0%)
NOV	W	3.3 (5.8%)	0 (0%)
	AN	3.1 (5.5%)	0 (0%)
	BN	3.3 (5.8%)	0 (0%)
	D	3.4 (6%)	0 (0%)
	C	3.5 (6%)	0 (0%)
	AVG	3.3 (5.8%)	0 (0%)
DEC	W	3.3 (6.4%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)
	BN	3.3 (6.4%)	0 (0%)
	D	3.2 (6.2%)	0 (0%)
	C	3.3 (6.3%)	0 (0%)
	AVG	3.2 (6.3%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.3.19 Stanislaus River at Orange Blossom Bridge**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
3 **Stanislaus River at Orange Blossom Bridge, Year-Round**

Alternative 3: Stanislaus River at Orange Blossom Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	48	51	51
	AN	48	51	51
	BN	48	51	51
	D	47	50	50
	C	48	51	51
	AVG	48	51	51
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	49	53	53
	AN	50	54	54
	BN	52	55	55
	D	52	56	56
	C	53	56	56
	AVG	51	54	54
APR	W	50	53	53
	AN	51	54	54
	BN	52	56	56
	D	53	56	56
	C	55	58	58
	AVG	52	55	55
MAY	W	53	56	56
	AN	54	57	57
	BN	55	59	59
	D	56	60	60
	C	58	61	61
	AVG	55	58	58
JUN	W	56	58	58
	AN	58	62	62
	BN	60	64	64
	D	62	66	66
	C	63	67	67
	AVG	59	63	63
JUL	W	60	62	62
	AN	63	66	66
	BN	63	67	67
	D	64	68	68
	C	65	69	69
	AVG	63	66	66

Alternative 3: Stanislaus River at Orange Blossom Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL
AUG	W	60	64	64
	AN	63	66	66
	BN	63	66	66
	D	64	68	68
	C	65	69	69
	AVG	63	66	66
SEP	W	60	64	64
	AN	63	66	66
	BN	63	67	67
	D	63	67	67
	C	64	68	68
	AVG	62	66	66
OCT	W	59	62	62
	AN	59	62	62
	BN	59	62	62
	D	59	62	62
	C	60	64	64
	AVG	59	62	62
NOV	W	55	58	58
	AN	55	58	58
	BN	55	58	58
	D	55	58	58
	C	56	59	59
	AVG	55	58	58
DEC	W	50	54	53
	AN	50	53	53
	BN	49	53	53
	D	50	52	52
	C	50	53	53
	AVG	50	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Orange Blossom Bridge, Year-Round**

Alternative 3: Stanislaus River at Orange Blossom Bridge			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	3 (6.2%)	0 (0%)
	AN	3 (6.3%)	0 (0%)
	BN	2.9 (6.1%)	0 (0%)
	D	2.8 (5.9%)	0 (0%)
	C	2.8 (5.8%)	0 (0%)
	AVG	2.9 (6.1%)	0 (0%)
FEB	W	3.1 (6.3%)	0 (0%)
	AN	3.1 (6.3%)	0 (0%)
	BN	3 (6%)	0 (0%)
	D	3.2 (6.5%)	0 (0%)
	C	3.2 (6.3%)	0 (0%)
	AVG	3.1 (6.3%)	0 (0%)
MAR	W	3.2 (6.4%)	0 (0%)
	AN	3.7 (7.3%)	0 (0%)
	BN	3 (5.8%)	0 (0%)
	D	3.4 (6.6%)	0 (0%)
	C	3.1 (5.8%)	0 (0%)
	AVG	3.3 (6.4%)	0 (0%)
APR	W	3.1 (6.1%)	0 (0%)
	AN	3.3 (6.5%)	0 (0%)
	BN	3.5 (6.7%)	0 (0%)
	D	3.6 (6.8%)	0 (0%)
	C	3.6 (6.6%)	0 (0%)
	AVG	3.4 (6.5%)	0 (0%)
MAY	W	3.2 (6%)	0 (0%)
	AN	3.3 (6%)	0 (0%)
	BN	3.9 (7.1%)	0 (0%)
	D	3.6 (6.5%)	0 (0%)
	C	3.5 (6%)	0 (0%)
	AVG	3.4 (6.2%)	0 (0%)
JUN	W	2.3 (4.1%)	0 (0%)
	AN	3.8 (6.6%)	0 (0%)
	BN	3.9 (6.5%)	0 (0%)
	D	4.3 (6.9%)	0 (0%)
	C	4.1 (6.6%)	0 (0.1%)
	AVG	3.5 (5.9%)	0 (0%)
JUL	W	2.1 (3.5%)	0 (0%)
	AN	3.6 (5.7%)	0 (0%)
	BN	3.5 (5.6%)	0 (0%)
	D	3.8 (5.9%)	0 (0%)
	C	4 (6.2%)	0 (0%)
	AVG	3.2 (5.2%)	0 (0%)

Alternative 3: Stanislaus River at Orange Blossom Bridge			
Month	WYT	EXISTING CONDITIONS vs. A3_LLT	NAA vs. A3_LLT
AUG	W	3.9 (6.4%)	0 (0%)
	AN	3.5 (5.7%)	0 (0%)
	BN	3.5 (5.5%)	0 (0%)
	D	3.5 (5.5%)	0 (0%)
	C	4.2 (6.5%)	0 (0%)
	AVG	3.7 (6%)	0 (0%)
SEP	W	3.8 (6.3%)	0 (0%)
	AN	3.9 (6.2%)	0 (0%)
	BN	3.7 (6%)	0 (0%)
	D	3.7 (5.9%)	0 (0%)
	C	3.8 (6%)	-0.1 (-0.1%)
	AVG	3.8 (6.1%)	0 (0%)
OCT	W	3.3 (5.6%)	0 (0%)
	AN	3 (5.1%)	0 (0%)
	BN	3.2 (5.4%)	0 (0%)
	D	3.4 (5.7%)	0 (0%)
	C	3.6 (5.9%)	0 (0%)
	AVG	3.3 (5.6%)	0 (0%)
NOV	W	3.1 (5.7%)	0 (0%)
	AN	3 (5.5%)	0 (0%)
	BN	3.2 (5.8%)	0 (0%)
	D	3.2 (5.9%)	0 (0%)
	C	3.2 (5.8%)	0 (0%)
	AVG	3.1 (5.7%)	0 (0%)
DEC	W	3.2 (6.3%)	0 (-0.1%)
	AN	2.9 (5.9%)	0 (0%)
	BN	3.3 (6.6%)	0 (0%)
	D	3 (6%)	0 (0%)
	C	3.1 (6.1%)	0 (0%)
	AVG	3.1 (6.2%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.3.20 Stanislaus River at Riverbank**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
3 **Stanislaus River at Riverbank, Year-Round**

Alternative 3: Stanislaus River at Riverbank				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	45	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	50	53	53
	BN	50	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	51	54	54
	AN	52	55	55
	BN	53	56	56
	D	54	57	57
	C	54	57	57
	AVG	52	56	56
APR	W	52	55	55
	AN	53	56	56
	BN	54	57	57
	D	54	58	58
	C	57	60	60
	AVG	54	57	57
MAY	W	56	59	59
	AN	57	60	60
	BN	58	62	62
	D	59	62	62
	C	60	64	64
	AVG	58	61	61
JUN	W	60	62	62
	AN	62	66	66
	BN	64	68	68
	D	66	70	70
	C	66	70	70
	AVG	63	67	67
JUL	W	65	67	67
	AN	68	71	71
	BN	68	71	71
	D	68	72	72
	C	68	72	72
	AVG	67	70	70

Alternative 3: Stanislaus River at Riverbank				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL
AUG	W	65	69	69
	AN	67	70	70
	BN	67	70	70
	D	68	71	71
	C	67	71	71
	AVG	66	70	70
SEP	W	64	67	67
	AN	66	70	70
	BN	66	69	69
	D	66	70	70
	C	66	70	69
	AVG	65	69	69
OCT	W	59	63	63
	AN	59	62	62
	BN	59	62	62
	D	59	62	62
	C	61	64	64
	AVG	60	63	63
NOV	W	53	56	56
	AN	53	56	56
	BN	53	56	56
	D	53	56	56
	C	54	57	57
	AVG	53	56	56
DEC	W	48	51	51
	AN	48	50	50
	BN	47	50	50
	D	47	50	50
	C	47	50	50
	AVG	47	50	50

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Riverbank, Year-Round**

Alternative 3: Stanislaus River at Riverbank			
Month	WYT	EXISTING CONDITIONS	NAA vs. A3_LL1
		vs. A3_LL1	
JAN	W	2.9 (6.3%)	0 (0%)
	AN	3 (6.4%)	0 (0%)
	BN	2.8 (6%)	0 (0%)
	D	2.5 (5.6%)	0 (0%)
	C	2.7 (5.8%)	0 (0%)
	AVG	2.8 (6.1%)	0 (0%)
FEB	W	2.9 (5.9%)	0 (0%)
	AN	2.9 (5.8%)	0 (0%)
	BN	2.7 (5.5%)	0 (0%)
	D	3 (6.1%)	0 (0%)
	C	3.1 (6%)	0 (0%)
	AVG	2.9 (5.9%)	0 (0%)
MAR	W	3 (5.9%)	0 (0%)
	AN	3.6 (7%)	0 (0%)
	BN	2.8 (5.3%)	0 (0%)
	D	3.4 (6.4%)	0 (0%)
	C	3 (5.6%)	0 (0%)
	AVG	3.2 (6%)	0 (0%)
APR	W	3 (5.7%)	0 (0%)
	AN	3.2 (6.1%)	0 (0%)
	BN	3.6 (6.6%)	0 (0%)
	D	3.6 (6.7%)	0 (0%)
	C	3.6 (6.4%)	0 (0%)
	AVG	3.3 (6.2%)	0 (0%)
MAY	W	3.2 (5.8%)	0 (0%)
	AN	3.4 (6%)	0 (0%)
	BN	4.3 (7.4%)	0 (0%)
	D	3.9 (6.6%)	0 (0%)
	C	3.5 (5.8%)	0 (0%)
	AVG	3.6 (6.2%)	0 (0%)
JUN	W	2 (3.4%)	0 (0%)
	AN	4 (6.4%)	0 (0%)
	BN	3.7 (5.8%)	0 (0%)
	D	4 (6.1%)	0 (0%)
	C	3.7 (5.6%)	0.1 (0.1%)
	AVG	3.3 (5.2%)	0 (0%)
JUL	W	1.8 (2.8%)	0 (0%)
	AN	3.3 (4.8%)	0 (0%)
	BN	3.1 (4.5%)	0 (0%)
	D	3.6 (5.3%)	0 (0%)
	C	3.5 (5.1%)	0 (0%)
	AVG	2.9 (4.3%)	0 (0%)

Alternative 3: Stanislaus River at Riverbank			
Month	WYT	EXISTING CONDITIONS vs. A3_LLT	NAA vs. A3_LLT
AUG	W	4.1 (6.4%)	0 (0%)
	AN	3.4 (5.1%)	0 (0%)
	BN	3.2 (4.8%)	0 (0%)
	D	3.3 (4.9%)	0 (0%)
	C	3.8 (5.6%)	0 (0%)
	AVG	3.6 (5.5%)	0 (0%)
SEP	W	3.9 (6.2%)	0 (0%)
	AN	3.9 (5.9%)	0 (0%)
	BN	3.7 (5.7%)	0 (0%)
	D	3.7 (5.6%)	0 (0%)
	C	3.6 (5.5%)	-0.2 (-0.2%)
	AVG	3.8 (5.8%)	0 (0%)
OCT	W	3.1 (5.2%)	0 (0%)
	AN	2.9 (4.9%)	0 (0%)
	BN	2.9 (4.9%)	0 (0%)
	D	3.1 (5.2%)	0 (0%)
	C	3.3 (5.5%)	0 (0%)
	AVG	3.1 (5.2%)	0 (0%)
NOV	W	3 (5.7%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)
	BN	3.1 (5.8%)	0 (0%)
	D	3.1 (5.8%)	0 (0%)
	C	3 (5.6%)	0 (0%)
	AVG	3.1 (5.8%)	0 (0%)
DEC	W	3 (6.3%)	-0.1 (-0.2%)
	AN	2.9 (6.1%)	0 (0%)
	BN	3.3 (7%)	0 (0%)
	D	2.8 (5.9%)	0 (0%)
	C	2.9 (6.2%)	0 (0%)
	AVG	3 (6.3%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.3.21 Stanislaus River at the Confluence with the San**
2 **Joaquin River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 3 Model Scenarios in the**
4 **Stanislaus River at the Confluence with the San Joaquin River, Year-Round**

Alternative 3: Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LL
JAN	W	46	49	49
	AN	46	49	49
	BN	46	49	49
	D	45	47	47
	C	45	48	48
	AVG	46	48	48
FEB	W	50	53	53
	AN	50	53	53
	BN	50	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	52	55	55
	AN	53	56	56
	BN	54	57	57
	D	55	58	58
	C	55	58	58
	AVG	54	56	56
APR	W	54	57	57
	AN	55	58	58
	BN	56	60	60
	D	57	60	60
	C	59	62	62
	AVG	56	59	59
MAY	W	59	62	62
	AN	60	63	63
	BN	60	64	64
	D	61	65	65
	C	63	66	66
	AVG	60	64	64
JUN	W	62	65	65
	AN	65	69	69
	BN	66	70	70
	D	68	72	72
	C	68	71	71
	AVG	65	69	69

Alternative 3: Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT	EXISTING CONDITIONS	NAA	A3_LLT
JUL	W	68	70	70
	AN	70	73	73
	BN	70	73	73
	D	70	74	74
	C	70	73	73
	AVG	69	72	72
AUG	W	67	71	71
	AN	69	72	72
	BN	68	71	71
	D	69	72	72
	C	69	72	72
	AVG	68	72	72
SEP	W	65	69	69
	AN	67	71	71
	BN	67	70	70
	D	67	70	70
	C	67	70	70
	AVG	66	70	70
OCT	W	60	63	63
	AN	60	62	62
	BN	59	62	62
	D	59	62	62
	C	61	64	64
	AVG	60	63	63
NOV	W	53	56	56
	AN	52	55	55
	BN	52	55	55
	D	52	55	55
	C	53	56	56
	AVG	52	55	55
DEC	W	47	50	50
	AN	46	49	49
	BN	45	49	49
	D	45	48	48
	C	45	48	48
	AVG	46	49	49

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

Alternative 3: Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
JAN	W	2.9 (6.3%)	0 (0%)
	AN	2.9 (6.4%)	0 (0%)
	BN	2.8 (6.1%)	0 (0%)
	D	2.5 (5.7%)	0 (0%)
	C	2.8 (6.1%)	0 (0%)
	AVG	2.8 (6.2%)	0 (0%)
FEB	W	2.8 (5.7%)	0 (0%)
	AN	2.8 (5.6%)	0 (0%)
	BN	2.6 (5.2%)	0 (0%)
	D	2.8 (5.6%)	0 (0%)
	C	2.9 (5.6%)	0 (0%)
	AVG	2.8 (5.6%)	0 (0%)
MAR	W	2.8 (5.5%)	0 (0%)
	AN	3.3 (6.3%)	0 (0%)
	BN	2.6 (4.9%)	0 (0%)
	D	3.2 (5.8%)	0 (0%)
	C	2.8 (5.1%)	0 (0%)
	AVG	3 (5.5%)	0 (0%)
APR	W	2.8 (5.2%)	0 (0%)
	AN	3.1 (5.6%)	0 (0%)
	BN	3.4 (6.1%)	0 (0%)
	D	3.5 (6.1%)	0 (0%)
	C	3.2 (5.5%)	0 (0%)
	AVG	3.2 (5.6%)	0 (0%)
MAY	W	3.1 (5.3%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)
	BN	4.1 (6.8%)	0 (0%)
	D	3.7 (6%)	0 (0%)
	C	3.2 (5.1%)	0 (0%)
	AVG	3.4 (5.7%)	0 (0%)
JUN	W	2.3 (3.6%)	0 (0%)
	AN	3.8 (5.8%)	0 (0%)
	BN	3.4 (5.1%)	0 (0%)
	D	3.4 (5%)	0 (0%)
	C	3.3 (4.8%)	0 (0.1%)
	AVG	3.1 (4.7%)	0 (0%)
JUL	W	2.3 (3.3%)	0 (0%)
	AN	3 (4.2%)	0 (0%)
	BN	2.8 (4%)	0 (0%)
	D	3.2 (4.5%)	0 (0%)
	C	3.1 (4.5%)	0 (0%)
	AVG	2.8 (4%)	0 (0%)

Alternative 3: Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT	EXISTING CONDITIONS vs. A3_LL1	NAA vs. A3_LL1
AUG	W	4.1 (6.1%)	0 (0%)
	AN	3.2 (4.7%)	0 (0%)
	BN	3.1 (4.5%)	0 (0%)
	D	3.1 (4.5%)	0 (0%)
	C	3.6 (5.2%)	0 (0%)
	AVG	3.5 (5.1%)	0 (0%)
SEP	W	3.9 (6%)	0 (0%)
	AN	3.7 (5.6%)	0 (0%)
	BN	3.7 (5.5%)	0 (0%)
	D	3.7 (5.5%)	0 (0%)
	C	3.5 (5.3%)	-0.2 (-0.2%)
	AVG	3.7 (5.6%)	0 (0%)
OCT	W	3 (5%)	0 (0%)
	AN	2.8 (4.8%)	0 (0%)
	BN	2.7 (4.5%)	0 (0%)
	D	2.9 (4.9%)	0 (0%)
	C	3.2 (5.3%)	0 (0%)
	AVG	2.9 (4.9%)	0 (0%)
NOV	W	3 (5.8%)	0 (0%)
	AN	3.2 (6%)	0 (0%)
	BN	3.1 (5.9%)	0 (0%)
	D	3.1 (5.9%)	0 (0%)
	C	2.9 (5.6%)	0 (0%)
	AVG	3.1 (5.8%)	0 (0%)
DEC	W	3 (6.4%)	-0.1 (-0.1%)
	AN	2.9 (6.2%)	0 (0%)
	BN	3.2 (7.1%)	0 (0%)
	D	2.8 (6.1%)	0 (0%)
	C	2.9 (6.4%)	0 (0%)
	AVG	3 (6.4%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.4 Alternative 4**

2 **11D.4.1 Sacramento River at Keswick**

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

Alternative 4: Sacramento River at Keswick						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	46	47	47	47	47
	AN	46	48	48	48	48
	BN	47	48	48	48	48
	D	47	48	48	48	48
	C	47	48	48	48	48
	All	46	48	48	48	48
FEB	W	45	47	47	47	47
	AN	46	47	47	47	47
	BN	46	47	47	47	47
	D	46	48	48	48	48
	C	46	48	48	48	48
	All	46	47	47	47	47
MAR	W	46	47	48	47	47
	AN	46	48	48	48	48
	BN	47	48	48	48	48
	D	47	49	49	49	49
	C	48	50	50	49	50
	All	47	48	48	48	48
APR	W	47	49	49	49	49
	AN	48	50	50	50	50
	BN	48	50	50	50	50
	D	48	50	50	50	50
	C	49	51	51	51	51
	All	48	50	50	50	50
MAY	W	49	50	50	50	50
	AN	49	51	51	50	51
	BN	49	51	51	51	51
	D	49	51	51	51	51
	C	51	53	53	53	53
	All	49	51	51	51	51
JUN	W	50	51	51	51	51
	AN	50	51	51	51	51
	BN	50	51	51	51	51
	D	50	52	52	52	52
	C	53	55	55	55	55
	All	50	52	52	52	52

Alternative 4: Sacramento River at Keswick						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JUL	W	51	52	52	52	52
	AN	51	52	52	52	52
	BN	51	52	53	52	52
	D	51	54	54	54	54
	C	54	59	59	59	58
	All	51	53	54	54	53
AUG	W	52	54	54	54	54
	AN	52	54	55	55	54
	BN	52	54	55	55	54
	D	53	56	56	56	55
	C	57	64	64	64	63
	All	53	56	56	56	56
SEP	W	53	55	56	55	55
	AN	54	56	57	56	56
	BN	54	56	57	57	57
	D	55	59	59	59	59
	C	60	66	66	66	66
	All	55	58	58	58	58
OCT	W	54	57	56	57	57
	AN	54	57	56	57	57
	BN	54	57	57	58	57
	D	55	58	58	59	59
	C	56	60	60	60	60
	All	54	58	57	58	58
NOV	W	53	55	55	55	55
	AN	52	55	54	55	55
	BN	53	55	55	55	55
	D	53	56	55	56	56
	C	54	56	56	56	56
	All	53	55	55	55	55
DEC	W	49	50	50	50	50
	AN	49	51	51	51	51
	BN	50	52	52	52	52
	D	50	52	52	52	52
	C	51	52	52	52	52
	All	50	51	51	51	51

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

Alternative 4: Sacramento River at Keswick					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	1.3 (2.8%)	-0.1 (-0.1%)	0.1 (0.3%)	0.1 (0.1%)
	AN	1.5 (3.2%)	0 (0.1%)	0.1 (0.1%)	0 (0.1%)
	BN	1.6 (3.4%)	-0.1 (-0.2%)	0.1 (0.2%)	0.1 (0.3%)
	D	1.5 (3.3%)	-0.1 (-0.1%)	0.1 (0.1%)	0.2 (0.4%)
	C	1.7 (3.6%)	-0.1 (-0.2%)	0.1 (0.1%)	0.2 (0.4%)
	AVG	1.5 (3.2%)	-0.1 (-0.1%)	0.1 (0.2%)	0.1 (0.2%)
FEB	W	1.5 (3.4%)	0 (0%)	0.1 (0.2%)	0 (0%)
	AN	1.6 (3.6%)	0 (0.1%)	0.1 (0.2%)	0 (0%)
	BN	1.5 (3.3%)	0 (-0.1%)	0.1 (0.2%)	0.1 (0.2%)
	D	1.6 (3.5%)	-0.1 (-0.2%)	0.1 (0.2%)	0.1 (0.2%)
	C	1.7 (3.7%)	-0.1 (-0.2%)	0.1 (0.1%)	0.1 (0.3%)
	AVG	1.6 (3.5%)	0 (-0.1%)	0.1 (0.2%)	0.1 (0.1%)
MAR	W	1.5 (3.2%)	0 (0%)	0.1 (0.2%)	0 (0%)
	AN	1.7 (3.6%)	0.1 (0.1%)	0.1 (0.1%)	0 (0%)
	BN	1.6 (3.4%)	0 (0.1%)	0.1 (0.1%)	0.1 (0.2%)
	D	1.6 (3.4%)	-0.1 (-0.1%)	0 (0.1%)	0 (0.1%)
	C	1.7 (3.5%)	-0.2 (-0.5%)	0.1 (0.1%)	0.2 (0.3%)
	AVG	1.6 (3.4%)	0 (-0.1%)	0.1 (0.1%)	0.1 (0.1%)
APR	W	1.6 (3.4%)	0 (-0.1%)	0.1 (0.2%)	0 (-0.1%)
	AN	1.7 (3.6%)	0 (0%)	0.1 (0.1%)	0 (0%)
	BN	1.5 (3.1%)	0.1 (0.3%)	0 (0.1%)	0.1 (0.2%)
	D	1.5 (3%)	-0.1 (-0.2%)	0 (0.1%)	0.1 (0.2%)
	C	2 (4.1%)	-0.1 (-0.1%)	-0.1 (-0.1%)	-0.1 (-0.2%)
	AVG	1.6 (3.4%)	0 (0%)	0 (0.1%)	0 (0%)
MAY	W	1.6 (3.3%)	-0.1 (-0.2%)	0 (0.1%)	0.1 (0.1%)
	AN	1.2 (2.5%)	-0.1 (-0.2%)	0.2 (0.4%)	0.1 (0.1%)
	BN	1.4 (2.8%)	0 (0%)	0 (0%)	0.2 (0.3%)
	D	1.4 (2.9%)	-0.1 (-0.2%)	-0.1 (-0.2%)	0.1 (0.2%)
	C	2.3 (4.4%)	0.2 (0.4%)	-0.1 (-0.2%)	-0.4 (-0.7%)
	AVG	1.6 (3.2%)	0 (-0.1%)	0 (0%)	0 (0.1%)
JUN	W	0.8 (1.7%)	-0.1 (-0.2%)	0 (0%)	0.1 (0.2%)
	AN	1 (2.1%)	-0.2 (-0.4%)	0.1 (0.3%)	0.2 (0.4%)
	BN	1.1 (2.2%)	-0.1 (-0.3%)	0 (0%)	0 (0.1%)
	D	2 (4%)	0.1 (0.3%)	-0.2 (-0.3%)	0 (-0.1%)
	C	2.4 (4.5%)	0.3 (0.5%)	0.1 (0.2%)	-0.2 (-0.4%)
	AVG	1.4 (2.8%)	0 (0%)	0 (0%)	0 (0%)
JUL	W	1.1 (2.2%)	0.2 (0.4%)	0 (0.1%)	-0.1 (-0.2%)
	AN	1.7 (3.4%)	0.3 (0.6%)	0 (0.1%)	-0.3 (-0.6%)
	BN	1.7 (3.3%)	0.3 (0.6%)	0.2 (0.3%)	-0.3 (-0.5%)
	D	2.9 (5.7%)	0.6 (1.1%)	-0.2 (-0.5%)	-0.6 (-1%)
	C	5.1 (9.4%)	-0.1 (-0.1%)	-0.2 (-0.4%)	-1 (-1.7%)
	AVG	2.3 (4.4%)	0.3 (0.5%)	0 (-0.1%)	-0.4 (-0.7%)

Alternative 4: Sacramento River at Keswick					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	2.2 (4.1%)	0.2 (0.4%)	0.1 (0.2%)	-0.2 (-0.4%)
	AN	2.3 (4.4%)	0.4 (0.8%)	0 (0%)	-0.5 (-0.9%)
	BN	2.9 (5.6%)	0.5 (1%)	0.1 (0.1%)	-0.6 (-1.1%)
	D	3.3 (6.3%)	0.3 (0.5%)	-0.1 (-0.2%)	-0.6 (-1%)
	C	7.7 (13.7%)	0.3 (0.4%)	-0.2 (-0.3%)	-1.2 (-1.8%)
	AVG	3.4 (6.4%)	0.3 (0.6%)	0 (0%)	-0.5 (-1%)
SEP	W	1.9 (3.6%)	0.3 (0.5%)	0.5 (0.8%)	-0.2 (-0.3%)
	AN	2.7 (5%)	0.4 (0.8%)	0.3 (0.6%)	-0.4 (-0.7%)
	BN	3.6 (6.7%)	0.9 (1.6%)	-0.4 (-0.7%)	-0.7 (-1.3%)
	D	4.3 (7.8%)	-0.1 (-0.2%)	-0.4 (-0.7%)	-0.4 (-0.7%)
	C	6.2 (10.3%)	0.3 (0.4%)	-0.4 (-0.6%)	-0.9 (-1.3%)
	AVG	3.5 (6.3%)	0.3 (0.5%)	0 (0%)	-0.5 (-0.8%)
OCT	W	3.3 (6.2%)	0.3 (0.5%)	-0.7 (-1.2%)	0 (0%)
	AN	3 (5.6%)	0.2 (0.4%)	-0.6 (-1.1%)	-0.1 (-0.2%)
	BN	3.3 (6%)	0.2 (0.4%)	-0.6 (-1.1%)	-0.2 (-0.4%)
	D	3.9 (7.1%)	0.4 (0.7%)	-0.6 (-1.1%)	-0.3 (-0.5%)
	C	3.7 (6.6%)	0 (-0.1%)	-0.3 (-0.5%)	-0.4 (-0.7%)
	AVG	3.5 (6.3%)	0.2 (0.4%)	-0.6 (-1%)	-0.2 (-0.3%)
NOV	W	2.3 (4.4%)	0.1 (0.1%)	-0.3 (-0.6%)	-0.1 (-0.1%)
	AN	2.3 (4.4%)	0.1 (0.2%)	-0.3 (-0.6%)	-0.1 (-0.1%)
	BN	2.4 (4.6%)	0 (0%)	-0.4 (-0.7%)	-0.1 (-0.3%)
	D	2.4 (4.6%)	0.1 (0.1%)	-0.2 (-0.4%)	0 (0%)
	C	2.3 (4.3%)	-0.1 (-0.3%)	0 (-0.1%)	-0.1 (-0.2%)
	AVG	2.4 (4.5%)	0 (0.1%)	-0.3 (-0.5%)	-0.1 (-0.1%)
DEC	W	1.2 (2.5%)	0 (-0.1%)	0.1 (0.2%)	0.1 (0.1%)
	AN	1.7 (3.5%)	0 (-0.1%)	-0.2 (-0.5%)	0.1 (0.2%)
	BN	1.9 (3.8%)	-0.1 (-0.2%)	0 (-0.1%)	0 (0.1%)
	D	1.8 (3.6%)	-0.1 (-0.3%)	0 (-0.1%)	0.1 (0.2%)
	C	1.8 (3.6%)	-0.1 (-0.3%)	0 (0%)	0.1 (0.2%)
	AVG	1.6 (3.3%)	-0.1 (-0.2%)	0 (0%)	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.

1 **11D.4.2 Sacramento River at Jelly’s Ferry**

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

Alternative 4: Sacramento River at Jelly’s Ferry						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	45	47	47	47	47
	AN	45	47	47	47	47
	BN	45	46	47	46	47
	D	45	47	47	47	47
	C	45	47	47	47	47
	AVG	45	47	47	47	47
FEB	W	46	47	47	47	47
	AN	46	48	48	48	48
	BN	46	48	48	47	48
	D	46	48	48	48	48
	C	47	49	49	49	49
	AVG	46	48	48	48	48
MAR	W	48	49	50	49	49
	AN	49	51	51	51	51
	BN	49	51	51	51	51
	D	50	51	51	51	51
	C	50	52	52	52	52
	AVG	49	51	51	51	51
APR	W	51	53	53	53	53
	AN	53	55	55	55	55
	BN	53	54	54	54	54
	D	52	54	54	54	54
	C	52	54	54	54	54
	AVG	52	54	54	54	54
MAY	W	54	57	57	57	57
	AN	55	57	56	56	56
	BN	54	57	56	56	57
	D	54	56	55	55	56
	C	55	57	57	57	57
	AVG	54	57	56	56	56
JUN	W	55	56	56	56	56
	AN	55	56	55	55	56
	BN	54	56	55	56	56
	D	54	56	56	56	56
	C	56	58	58	58	58
	AVG	55	56	56	56	56
JUL	W	56	57	57	57	57
	AN	55	56	56	56	56
	BN	55	56	57	57	56
	D	55	57	58	58	58
	C	57	62	62	62	61
	AVG	55	57	58	58	57

Alternative 4: Sacramento River at Jelly's Ferry						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
AUG	W	56	59	59	59	58
	AN	56	58	59	59	58
	BN	56	58	59	59	58
	D	56	59	60	60	59
	C	59	67	66	67	66
	AVG	57	60	60	60	60
SEP	W	56	57	59	58	57
	AN	57	59	60	59	59
	BN	57	60	60	61	60
	D	58	63	62	62	62
	C	61	67	67	67	66
	AVG	58	61	61	61	60
OCT	W	54	57	57	57	57
	AN	54	57	57	57	57
	BN	55	57	57	58	57
	D	55	58	58	59	58
	C	56	60	59	60	59
	AVG	55	58	58	58	58
NOV	W	51	53	52	53	53
	AN	51	53	53	53	53
	BN	51	54	53	53	53
	D	51	54	53	54	54
	C	52	55	54	54	54
	AVG	51	53	53	53	53
DEC	W	47	48	48	48	48
	AN	47	48	48	48	48
	BN	47	49	49	49	49
	D	47	49	49	49	49
	C	47	49	49	49	49
	AVG	47	48	49	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Jelly’s Ferry, Year-Round**

Alternative 4: Sacramento River at Jelly’s Ferry					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	1.4 (3.2%)	0 (0%)	0.1 (0.2%)	0 (0%)
	AN	1.5 (3.4%)	0 (0%)	0.2 (0.3%)	0 (0%)
	BN	1.7 (3.8%)	0 (0%)	0.1 (0.2%)	0.1 (0.1%)
	D	1.8 (4%)	-0.1 (-0.1%)	0.1 (0.2%)	0 (0%)
	C	2.1 (4.7%)	0 (-0.1%)	0.1 (0.1%)	-0.1 (-0.1%)
	AVG	1.7 (3.7%)	0 (0%)	0.1 (0.2%)	0 (0%)
FEB	W	1.6 (3.4%)	0 (0%)	0 (0.1%)	0 (0%)
	AN	1.6 (3.5%)	0 (0%)	0.1 (0.1%)	0 (0%)
	BN	1.6 (3.6%)	0 (0%)	0 (0.1%)	0 (0.1%)
	D	1.8 (3.9%)	0 (-0.1%)	0 (0.1%)	0 (0%)
	C	1.9 (4.1%)	0 (-0.1%)	0 (0%)	0 (0.1%)
	AVG	1.7 (3.7%)	0 (0%)	0 (0.1%)	0 (0%)
MAR	W	1.4 (3%)	0 (0%)	0 (0.1%)	0 (0%)
	AN	1.6 (3.2%)	0 (0.1%)	0 (0%)	0 (0.1%)
	BN	1.7 (3.5%)	0 (0.1%)	-0.1 (-0.2%)	0.1 (0.2%)
	D	1.6 (3.3%)	0 (-0.1%)	0 (0%)	0 (0.1%)
	C	1.6 (3.2%)	-0.2 (-0.4%)	0 (0%)	0.1 (0.2%)
	AVG	1.6 (3.2%)	0 (-0.1%)	0 (0%)	0 (0.1%)
APR	W	1.8 (3.5%)	0 (0%)	0 (0%)	0 (0%)
	AN	1.8 (3.4%)	-0.1 (-0.2%)	0 (0%)	0 (0%)
	BN	1.7 (3.2%)	-0.1 (-0.2%)	0 (0.1%)	0.2 (0.4%)
	D	1.6 (3.1%)	-0.2 (-0.4%)	0.1 (0.1%)	0.2 (0.4%)
	C	2 (3.8%)	0 (-0.1%)	0 (-0.1%)	-0.1 (-0.1%)
	AVG	1.8 (3.4%)	-0.1 (-0.1%)	0 (0%)	0.1 (0.1%)
MAY	W	2.7 (4.9%)	-0.3 (-0.5%)	0 (0%)	0.1 (0.2%)
	AN	1.2 (2.1%)	-0.5 (-0.9%)	0.2 (0.4%)	0.3 (0.4%)
	BN	1.8 (3.3%)	-0.3 (-0.6%)	-0.1 (-0.1%)	0.4 (0.8%)
	D	1.4 (2.5%)	-0.5 (-0.8%)	-0.1 (-0.2%)	0.4 (0.7%)
	C	2 (3.7%)	0.1 (0.2%)	-0.1 (-0.1%)	-0.2 (-0.4%)
	AVG	1.9 (3.5%)	-0.3 (-0.5%)	0 (0%)	0.2 (0.4%)
JUN	W	1 (1.8%)	-0.4 (-0.7%)	0 (-0.1%)	0.3 (0.6%)
	AN	0.7 (1.2%)	-0.7 (-1.2%)	0.1 (0.2%)	0.7 (1.3%)
	BN	1.2 (2.3%)	-0.3 (-0.6%)	-0.1 (-0.1%)	0.3 (0.6%)
	D	1.8 (3.3%)	-0.1 (-0.2%)	-0.1 (-0.2%)	0.2 (0.4%)
	C	2.2 (4%)	0.2 (0.4%)	0.1 (0.2%)	-0.1 (-0.1%)
	AVG	1.3 (2.4%)	-0.3 (-0.5%)	0 (0%)	0.3 (0.5%)
JUL	W	1.1 (1.9%)	0.1 (0.2%)	0 (0%)	0 (-0.1%)
	AN	1.7 (3.1%)	0.3 (0.5%)	0 (0%)	-0.2 (-0.3%)
	BN	2 (3.6%)	0.3 (0.6%)	0.1 (0.2%)	-0.2 (-0.4%)
	D	3.1 (5.7%)	0.7 (1.3%)	-0.3 (-0.5%)	-0.6 (-1%)
	C	5 (8.7%)	0 (-0.1%)	-0.1 (-0.2%)	-0.9 (-1.5%)
	AVG	2.3 (4.2%)	0.3 (0.5%)	-0.1 (-0.1%)	-0.3 (-0.6%)

Alternative 4: Sacramento River at Jelly's Ferry					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	2.7 (4.8%)	0.2 (0.3%)	0.1 (0.1%)	-0.3 (-0.5%)
	AN	2.4 (4.2%)	0.5 (0.8%)	0 (-0.1%)	-0.6 (-1.1%)
	BN	3.1 (5.6%)	0.5 (0.9%)	0.1 (0.2%)	-0.6 (-1%)
	D	3.8 (6.8%)	0.8 (1.3%)	-0.1 (-0.2%)	-0.8 (-1.4%)
	C	7.4 (12.5%)	0.3 (0.5%)	-0.3 (-0.5%)	-1.2 (-1.8%)
	AVG	3.7 (6.5%)	0.4 (0.7%)	0 (0%)	-0.6 (-1.1%)
SEP	W	1.4 (2.5%)	0.2 (0.3%)	1.9 (3.2%)	-0.2 (-0.3%)
	AN	1.8 (3.2%)	0.5 (0.9%)	1.1 (1.9%)	-0.5 (-0.8%)
	BN	3.9 (6.8%)	1 (1.7%)	-0.7 (-1.1%)	-0.7 (-1.1%)
	D	4.6 (7.9%)	-0.3 (-0.5%)	-0.4 (-0.7%)	-0.5 (-0.7%)
	C	5.5 (8.9%)	0.2 (0.2%)	-0.3 (-0.4%)	-0.7 (-1.1%)
	AVG	3.2 (5.5%)	0.3 (0.4%)	0.5 (0.8%)	-0.5 (-0.8%)
OCT	W	3 (5.5%)	0.2 (0.3%)	-0.4 (-0.7%)	0 (0%)
	AN	2.7 (5%)	0.2 (0.3%)	-0.4 (-0.7%)	-0.1 (-0.1%)
	BN	3.2 (5.8%)	0.2 (0.4%)	-0.4 (-0.7%)	-0.3 (-0.4%)
	D	3.4 (6.2%)	0.2 (0.4%)	-0.4 (-0.7%)	-0.3 (-0.4%)
	C	3.4 (6%)	0 (0%)	-0.2 (-0.4%)	-0.3 (-0.5%)
	AVG	3.1 (5.7%)	0.2 (0.3%)	-0.4 (-0.6%)	-0.2 (-0.3%)
NOV	W	2.2 (4.3%)	-0.1 (-0.2%)	-0.4 (-0.7%)	0 (0%)
	AN	2.1 (4.2%)	-0.1 (-0.2%)	-0.3 (-0.6%)	0 (0.1%)
	BN	2.4 (4.6%)	-0.2 (-0.3%)	-0.4 (-0.7%)	-0.1 (-0.2%)
	D	2.2 (4.2%)	-0.1 (-0.1%)	-0.2 (-0.4%)	0 (0%)
	C	2.2 (4.3%)	-0.1 (-0.3%)	-0.1 (-0.1%)	-0.1 (-0.2%)
	AVG	2.2 (4.3%)	-0.1 (-0.2%)	-0.3 (-0.5%)	0 (-0.1%)
DEC	W	1.1 (2.4%)	-0.1 (-0.1%)	0.2 (0.5%)	0.1 (0.1%)
	AN	1.8 (3.8%)	0 (0%)	-0.1 (-0.3%)	0.1 (0.2%)
	BN	2 (4.2%)	0 (0.1%)	0 (0.1%)	-0.1 (-0.2%)
	D	1.9 (4%)	-0.1 (-0.1%)	0.1 (0.2%)	-0.1 (-0.1%)
	C	1.9 (4%)	-0.1 (-0.1%)	0.1 (0.2%)	0 (0.1%)
	AVG	1.6 (3.5%)	0 (-0.1%)	0.1 (0.2%)	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.

1 **11D.4.3 Sacramento River at Bend Bridge**

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

Alternative 4: Sacramento River at Bend Bridge						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	45	47	47	47	47
	AN	45	47	47	47	47
	BN	45	46	46	46	46
	D	45	47	47	47	47
	C	45	47	47	47	47
	AVG	45	47	47	47	47
FEB	W	46	47	47	47	47
	AN	46	48	48	48	48
	BN	46	48	48	48	48
	D	46	48	48	48	48
	C	47	49	49	49	49
	AVG	46	48	48	48	48
MAR	W	48	50	50	50	50
	AN	49	51	51	51	51
	BN	49	51	51	51	51
	D	50	52	52	52	52
	C	50	52	52	52	52
	AVG	49	51	51	51	51
APR	W	51	53	53	53	53
	AN	53	55	55	55	55
	BN	53	55	55	55	55
	D	53	55	55	54	55
	C	52	54	54	54	54
	AVG	52	54	54	54	54
MAY	W	54	57	57	57	57
	AN	55	57	57	57	57
	BN	55	57	57	57	57
	D	55	56	56	56	56
	C	55	57	57	58	57
	AVG	55	57	57	57	57
JUN	W	56	57	57	57	57
	AN	55	57	56	56	57
	BN	55	57	56	56	57
	D	55	57	57	57	57
	C	57	59	59	59	59
	AVG	55	57	57	57	57
JUL	W	56	57	57	57	57
	AN	55	57	57	57	57
	BN	55	57	58	57	57
	D	56	58	59	59	58
	C	58	63	63	63	62
	AVG	56	58	58	58	58

Alternative 4: Sacramento River at Bend Bridge						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
AUG	W	57	59	60	59	59
	AN	57	59	59	59	59
	BN	56	59	60	59	59
	D	57	60	61	61	60
	C	60	67	67	67	66
	AVG	57	60	61	61	60
SEP	W	57	58	60	58	58
	AN	58	59	61	60	59
	BN	58	60	61	62	61
	D	58	63	62	63	62
	C	62	67	67	67	66
	AVG	58	61	62	61	61
OCT	W	54	57	57	57	57
	AN	55	57	57	57	57
	BN	55	58	57	58	58
	D	55	58	58	59	58
	C	56	60	59	60	59
	AVG	55	58	58	58	58
NOV	W	51	53	52	53	53
	AN	51	53	52	53	53
	BN	51	53	53	53	53
	D	51	54	53	53	53
	C	52	54	54	54	54
	AVG	51	53	53	53	53
DEC	W	47	48	48	48	48
	AN	46	48	48	48	48
	BN	47	49	49	49	49
	D	46	48	48	48	48
	C	47	49	49	49	49
	AVG	47	48	48	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Bend Bridge, Year-Round**

Alternative 4: Sacramento River at Bend Bridge					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	1.4 (3.2%)	0 (0%)	0.1 (0.2%)	0 (0%)
	AN	1.6 (3.5%)	0 (0%)	0.2 (0.3%)	0 (0%)
	BN	1.7 (3.9%)	0 (0%)	0.1 (0.2%)	0.1 (0.1%)
	D	1.8 (4.1%)	0 (-0.1%)	0.1 (0.2%)	0 (0%)
	C	2.2 (4.9%)	0 (-0.1%)	0.1 (0.1%)	-0.1 (-0.2%)
	AVG	1.7 (3.8%)	0 (0%)	0.1 (0.2%)	0 (0%)
FEB	W	1.6 (3.4%)	0 (0%)	0 (0.1%)	0 (0%)
	AN	1.6 (3.5%)	0 (0%)	0.1 (0.1%)	0 (0%)
	BN	1.7 (3.7%)	0 (0%)	0 (0.1%)	0 (0.1%)
	D	1.9 (4%)	0 (-0.1%)	0 (0.1%)	0 (0%)
	C	2 (4.2%)	0 (-0.1%)	0 (0%)	0 (0.1%)
	AVG	1.7 (3.7%)	0 (0%)	0 (0.1%)	0 (0%)
MAR	W	1.5 (3%)	0 (0%)	0 (0.1%)	0 (0%)
	AN	1.6 (3.2%)	0 (0.1%)	0 (0%)	0 (0.1%)
	BN	1.8 (3.6%)	0 (0.1%)	-0.1 (-0.2%)	0.1 (0.1%)
	D	1.7 (3.3%)	0 (-0.1%)	0 (0%)	0 (0.1%)
	C	1.6 (3.2%)	-0.2 (-0.4%)	0 (0%)	0.1 (0.2%)
	AVG	1.6 (3.2%)	0 (-0.1%)	0 (0%)	0 (0.1%)
APR	W	1.8 (3.5%)	0 (0%)	0 (0%)	0 (0%)
	AN	1.8 (3.4%)	-0.1 (-0.2%)	0 (0%)	0 (0%)
	BN	1.7 (3.2%)	-0.1 (-0.2%)	0 (0.1%)	0.2 (0.4%)
	D	1.7 (3.2%)	-0.2 (-0.4%)	0.1 (0.1%)	0.2 (0.4%)
	C	2 (3.8%)	0 (-0.1%)	0 (-0.1%)	-0.1 (-0.1%)
	AVG	1.8 (3.4%)	-0.1 (-0.1%)	0 (0%)	0.1 (0.1%)
MAY	W	2.7 (5%)	-0.3 (-0.5%)	0 (0%)	0.1 (0.2%)
	AN	1.2 (2.2%)	-0.5 (-0.9%)	0.2 (0.4%)	0.3 (0.5%)
	BN	1.8 (3.3%)	-0.4 (-0.6%)	-0.1 (-0.1%)	0.5 (0.8%)
	D	1.4 (2.5%)	-0.5 (-0.8%)	-0.1 (-0.2%)	0.4 (0.7%)
	C	2 (3.6%)	0.1 (0.1%)	-0.1 (-0.1%)	-0.2 (-0.3%)
	AVG	1.9 (3.5%)	-0.3 (-0.5%)	0 (0%)	0.2 (0.4%)
JUN	W	1 (1.8%)	-0.4 (-0.8%)	0 (-0.1%)	0.3 (0.6%)
	AN	0.7 (1.2%)	-0.7 (-1.3%)	0.1 (0.2%)	0.8 (1.4%)
	BN	1.3 (2.3%)	-0.4 (-0.6%)	-0.1 (-0.2%)	0.3 (0.6%)
	D	1.8 (3.3%)	-0.2 (-0.3%)	-0.1 (-0.2%)	0.2 (0.4%)
	C	2.2 (3.9%)	0.2 (0.4%)	0.1 (0.2%)	0 (-0.1%)
	AVG	1.4 (2.5%)	-0.3 (-0.5%)	0 (0%)	0.3 (0.6%)
JUL	W	1.1 (1.9%)	0.1 (0.2%)	0 (0%)	0 (-0.1%)
	AN	1.7 (3.1%)	0.3 (0.5%)	0 (0%)	-0.2 (-0.3%)
	BN	2 (3.7%)	0.3 (0.6%)	0.1 (0.2%)	-0.2 (-0.3%)
	D	3.2 (5.7%)	0.7 (1.3%)	-0.3 (-0.5%)	-0.6 (-1%)
	C	5 (8.6%)	0 (0%)	-0.1 (-0.2%)	-0.9 (-1.4%)
	AVG	2.4 (4.2%)	0.3 (0.5%)	-0.1 (-0.1%)	-0.3 (-0.6%)

Alternative 4: Sacramento River at Bend Bridge					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	2.8 (4.9%)	0.2 (0.3%)	0.1 (0.1%)	-0.3 (-0.5%)
	AN	2.4 (4.2%)	0.5 (0.8%)	0 (-0.1%)	-0.6 (-1.1%)
	BN	3.2 (5.6%)	0.5 (0.8%)	0.1 (0.2%)	-0.6 (-1%)
	D	3.9 (6.8%)	0.8 (1.3%)	-0.1 (-0.2%)	-0.9 (-1.4%)
	C	7.4 (12.3%)	0.3 (0.5%)	-0.3 (-0.5%)	-1.2 (-1.8%)
	AVG	3.7 (6.5%)	0.4 (0.7%)	0 (-0.1%)	-0.7 (-1.1%)
SEP	W	1.4 (2.4%)	0.1 (0.3%)	2 (3.5%)	-0.2 (-0.4%)
	AN	1.8 (3%)	0.5 (0.9%)	1.2 (2%)	-0.5 (-0.8%)
	BN	3.9 (6.8%)	1 (1.7%)	-0.7 (-1.1%)	-0.7 (-1.1%)
	D	4.6 (7.9%)	-0.3 (-0.5%)	-0.4 (-0.6%)	-0.5 (-0.7%)
	C	5.4 (8.7%)	0.1 (0.2%)	-0.3 (-0.4%)	-0.7 (-1%)
	AVG	3.2 (5.5%)	0.2 (0.4%)	0.6 (0.9%)	-0.5 (-0.7%)
OCT	W	3 (5.5%)	0.1 (0.3%)	-0.4 (-0.7%)	0 (0%)
	AN	2.7 (5%)	0.2 (0.3%)	-0.4 (-0.6%)	-0.1 (-0.1%)
	BN	3.2 (5.8%)	0.2 (0.4%)	-0.4 (-0.7%)	-0.2 (-0.4%)
	D	3.4 (6.1%)	0.2 (0.4%)	-0.4 (-0.6%)	-0.3 (-0.4%)
	C	3.4 (6%)	0 (0%)	-0.2 (-0.3%)	-0.3 (-0.5%)
	AVG	3.1 (5.7%)	0.2 (0.3%)	-0.4 (-0.6%)	-0.2 (-0.3%)
NOV	W	2.2 (4.3%)	-0.1 (-0.2%)	-0.4 (-0.7%)	0 (0%)
	AN	2.1 (4.2%)	-0.1 (-0.2%)	-0.3 (-0.6%)	0 (0.1%)
	BN	2.4 (4.7%)	-0.2 (-0.3%)	-0.4 (-0.7%)	-0.1 (-0.2%)
	D	2.2 (4.3%)	-0.1 (-0.2%)	-0.2 (-0.4%)	0 (0%)
	C	2.3 (4.4%)	-0.1 (-0.3%)	-0.1 (-0.2%)	-0.1 (-0.2%)
	AVG	2.2 (4.4%)	-0.1 (-0.2%)	-0.3 (-0.5%)	0 (-0.1%)
DEC	W	1.1 (2.4%)	-0.1 (-0.1%)	0.2 (0.5%)	0.1 (0.1%)
	AN	1.8 (3.9%)	0 (0%)	-0.1 (-0.2%)	0.1 (0.1%)
	BN	2 (4.3%)	0 (0.1%)	0 (0.1%)	-0.1 (-0.2%)
	D	1.9 (4.1%)	-0.1 (-0.1%)	0.1 (0.2%)	-0.1 (-0.1%)
	C	1.9 (4.2%)	0 (-0.1%)	0.1 (0.2%)	0 (0.1%)
	AVG	1.7 (3.6%)	0 (-0.1%)	0.1 (0.2%)	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.

1 **11D.4.4 Sacramento River at Red Bluff Diversion Dam**

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

Alternative 4: Sacramento River at Red Bluff Diversion Dam						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	45	46	47	46	47
	AN	45	47	47	47	47
	BN	44	46	46	46	46
	D	44	46	46	46	46
	C	44	47	47	47	47
	AVG	45	46	47	46	46
FEB	W	46	47	48	47	47
	AN	46	48	48	48	48
	BN	46	48	48	48	48
	D	46	48	48	48	48
	C	47	49	49	49	49
	AVG	46	48	48	48	48
MAR	W	48	50	50	50	50
	AN	49	51	51	51	51
	BN	49	51	51	51	51
	D	50	52	52	52	52
	C	51	53	52	52	52
	AVG	49	51	51	51	51
APR	W	52	54	54	54	54
	AN	53	55	55	55	55
	BN	54	55	55	55	56
	D	54	55	55	55	56
	C	53	55	55	55	55
	AVG	53	55	55	55	55
MAY	W	55	58	58	58	58
	AN	56	58	58	58	58
	BN	56	58	58	58	58
	D	56	58	57	57	57
	C	57	59	59	59	58
	AVG	56	58	58	58	58
JUN	W	57	59	58	58	59
	AN	57	58	58	58	58
	BN	57	58	58	58	58
	D	57	59	59	59	59
	C	58	60	60	60	60
	AVG	57	59	58	58	59
JUL	W	58	59	59	59	59
	AN	57	59	59	59	59
	BN	57	59	59	59	59
	D	57	60	60	61	60
	C	60	64	64	64	64
	AVG	58	60	60	60	60

Alternative 4: Sacramento River at Red Bluff Diversion Dam						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
AUG	W	58	61	61	61	61
	AN	59	61	61	61	60
	BN	58	61	61	61	61
	D	59	62	63	63	62
	C	61	68	68	69	67
	AVG	59	62	63	63	62
SEP	W	58	59	61	59	59
	AN	59	60	62	61	60
	BN	59	62	62	63	62
	D	59	64	64	64	64
	C	63	68	68	68	67
	AVG	59	62	63	62	62
OCT	W	55	57	57	58	58
	AN	55	57	57	58	58
	BN	55	58	58	58	58
	D	55	59	58	59	59
	C	56	60	60	60	60
	AVG	55	58	58	58	58
NOV	W	50	53	52	53	53
	AN	50	53	52	53	53
	BN	51	53	53	53	53
	D	51	53	53	53	53
	C	52	54	54	54	54
	AVG	51	53	53	53	53
DEC	W	46	48	48	48	48
	AN	46	48	48	48	48
	BN	46	48	48	48	48
	D	46	48	48	48	48
	C	46	48	48	48	48
	AVG	46	48	48	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Red Bluff Diversion Dam, Year-Round**

Alternative 4: Sacramento River at Red Bluff Diversion Dam					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	1.5 (3.3%)	0 (0%)	0.1 (0.2%)	0 (0%)
	AN	1.6 (3.6%)	0 (0%)	0.2 (0.3%)	0 (0%)
	BN	1.8 (4%)	0 (0%)	0.1 (0.2%)	0.1 (0.1%)
	D	1.9 (4.3%)	0 (-0.1%)	0.1 (0.2%)	0 (0%)
	C	2.3 (5.1%)	0 (-0.1%)	0.1 (0.1%)	-0.1 (-0.2%)
	AVG	1.8 (4%)	0 (0%)	0.1 (0.2%)	0 (0%)
FEB	W	1.6 (3.5%)	0 (0%)	0 (0.1%)	0 (0%)
	AN	1.7 (3.6%)	0 (0%)	0.1 (0.1%)	0 (0%)
	BN	1.7 (3.8%)	0 (0%)	0 (0.1%)	0 (0.1%)
	D	1.9 (4.2%)	0 (-0.1%)	0 (0.1%)	0 (0%)
	C	2.1 (4.4%)	0 (-0.1%)	0 (0%)	0 (0%)
	AVG	1.8 (3.8%)	0 (0%)	0 (0.1%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0%)	0 (0.1%)	0 (0%)
	AN	1.6 (3.3%)	0 (0.1%)	0 (0%)	0 (0.1%)
	BN	1.8 (3.6%)	0 (0.1%)	-0.1 (-0.2%)	0.1 (0.1%)
	D	1.7 (3.4%)	0 (-0.1%)	0 (0%)	0 (0.1%)
	C	1.7 (3.3%)	-0.2 (-0.4%)	0 (0%)	0.1 (0.2%)
	AVG	1.6 (3.3%)	0 (-0.1%)	0 (0%)	0 (0.1%)
APR	W	1.8 (3.5%)	0 (0%)	0 (0%)	0 (0%)
	AN	1.9 (3.5%)	-0.1 (-0.2%)	0 (0%)	0 (0%)
	BN	1.8 (3.3%)	-0.1 (-0.2%)	0 (0.1%)	0.2 (0.4%)
	D	1.7 (3.2%)	-0.2 (-0.3%)	0.1 (0.1%)	0.2 (0.4%)
	C	2 (3.8%)	0 (-0.1%)	0 (-0.1%)	-0.1 (-0.1%)
	AVG	1.8 (3.5%)	-0.1 (-0.1%)	0 (0%)	0.1 (0.1%)
MAY	W	2.8 (5.1%)	-0.3 (-0.4%)	0 (0%)	0.1 (0.2%)
	AN	1.3 (2.2%)	-0.6 (-1%)	0.2 (0.4%)	0.3 (0.5%)
	BN	1.9 (3.4%)	-0.4 (-0.7%)	-0.1 (-0.1%)	0.5 (0.8%)
	D	1.4 (2.5%)	-0.5 (-0.9%)	-0.1 (-0.2%)	0.4 (0.7%)
	C	2 (3.6%)	0.1 (0.1%)	-0.1 (-0.1%)	-0.2 (-0.3%)
	AVG	2 (3.6%)	-0.3 (-0.6%)	0 (0%)	0.2 (0.4%)
JUN	W	1.1 (2%)	-0.5 (-0.8%)	-0.1 (-0.1%)	0.4 (0.6%)
	AN	0.7 (1.3%)	-0.8 (-1.3%)	0.1 (0.2%)	0.8 (1.4%)
	BN	1.4 (2.4%)	-0.4 (-0.7%)	-0.1 (-0.2%)	0.4 (0.7%)
	D	1.8 (3.2%)	-0.2 (-0.4%)	-0.1 (-0.2%)	0.3 (0.5%)
	C	2.2 (3.8%)	0.2 (0.3%)	0.1 (0.2%)	0 (0%)
	AVG	1.4 (2.5%)	-0.4 (-0.6%)	0 (0%)	0.4 (0.6%)
JUL	W	1.2 (2%)	0.1 (0.1%)	0 (0%)	0 (0%)
	AN	1.8 (3.1%)	0.2 (0.4%)	0 (0%)	-0.1 (-0.2%)
	BN	2.2 (3.8%)	0.3 (0.5%)	0.1 (0.2%)	-0.2 (-0.3%)
	D	3.2 (5.6%)	0.8 (1.3%)	-0.3 (-0.5%)	-0.6 (-1%)
	C	4.9 (8.2%)	0 (0%)	-0.1 (-0.1%)	-0.9 (-1.3%)
	AVG	2.4 (4.2%)	0.3 (0.5%)	-0.1 (-0.1%)	-0.3 (-0.5%)

Alternative 4: Sacramento River at Red Bluff Diversion Dam					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	2.9 (5%)	0.1 (0.2%)	0 (0.1%)	-0.3 (-0.5%)
	AN	2.5 (4.2%)	0.5 (0.7%)	-0.1 (-0.1%)	-0.7 (-1.1%)
	BN	3.2 (5.6%)	0.5 (0.8%)	0.2 (0.2%)	-0.6 (-0.9%)
	D	4 (6.9%)	0.9 (1.5%)	-0.1 (-0.2%)	-0.9 (-1.5%)
	C	7.3 (11.8%)	0.3 (0.4%)	-0.4 (-0.6%)	-1.2 (-1.8%)
	AVG	3.8 (6.5%)	0.4 (0.7%)	0 (-0.1%)	-0.7 (-1.1%)
SEP	W	1.3 (2.3%)	0.1 (0.2%)	2.3 (3.9%)	-0.2 (-0.4%)
	AN	1.7 (2.8%)	0.5 (0.9%)	1.4 (2.3%)	-0.5 (-0.9%)
	BN	4 (6.9%)	1 (1.6%)	-0.7 (-1.2%)	-0.7 (-1%)
	D	4.7 (7.9%)	-0.3 (-0.5%)	-0.4 (-0.6%)	-0.5 (-0.7%)
	C	5.3 (8.5%)	0.1 (0.1%)	-0.2 (-0.3%)	-0.7 (-1%)
	AVG	3.2 (5.3%)	0.2 (0.4%)	0.7 (1.1%)	-0.5 (-0.7%)
OCT	W	2.9 (5.4%)	0.1 (0.2%)	-0.3 (-0.6%)	0 (0%)
	AN	2.7 (5%)	0.1 (0.2%)	-0.3 (-0.5%)	-0.1 (-0.1%)
	BN	3.2 (5.7%)	0.2 (0.4%)	-0.4 (-0.6%)	-0.2 (-0.4%)
	D	3.3 (5.9%)	0.2 (0.3%)	-0.3 (-0.5%)	-0.2 (-0.4%)
	C	3.4 (5.9%)	0 (0%)	-0.2 (-0.3%)	-0.3 (-0.5%)
	AVG	3.1 (5.6%)	0.1 (0.2%)	-0.3 (-0.5%)	-0.1 (-0.3%)
NOV	W	2.2 (4.4%)	-0.1 (-0.3%)	-0.3 (-0.6%)	0 (0%)
	AN	2.2 (4.3%)	-0.1 (-0.2%)	-0.3 (-0.6%)	0 (0.1%)
	BN	2.4 (4.8%)	-0.2 (-0.3%)	-0.3 (-0.6%)	-0.1 (-0.2%)
	D	2.2 (4.4%)	-0.1 (-0.2%)	-0.2 (-0.4%)	0 (0%)
	C	2.3 (4.5%)	-0.1 (-0.3%)	-0.1 (-0.1%)	-0.1 (-0.2%)
	AVG	2.3 (4.5%)	-0.1 (-0.3%)	-0.3 (-0.5%)	0 (-0.1%)
DEC	W	1.2 (2.6%)	-0.1 (-0.1%)	0.2 (0.5%)	0.1 (0.1%)
	AN	1.9 (4.1%)	0 (0%)	-0.1 (-0.2%)	0.1 (0.1%)
	BN	2 (4.4%)	0 (0.1%)	0 (0.1%)	-0.1 (-0.2%)
	D	2 (4.3%)	0 (-0.1%)	0.1 (0.2%)	-0.1 (-0.2%)
	C	2 (4.4%)	0 (-0.1%)	0.1 (0.3%)	0 (0.1%)
	AVG	1.7 (3.7%)	0 (-0.1%)	0.1 (0.2%)	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.

1 **11D.4.5 Sacramento River at Hamilton City**

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

Alternative 4: Sacramento River at Hamilton City						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	45	47	47	47	47
	AN	45	47	47	47	47
	BN	44	46	46	46	46
	D	44	46	46	46	46
	C	44	47	47	47	47
	AVG	45	47	47	47	47
FEB	W	46	48	48	48	48
	AN	47	48	48	48	48
	BN	46	48	48	48	48
	D	47	49	49	49	49
	C	48	50	50	50	50
	AVG	47	49	49	49	49
MAR	W	49	51	51	51	51
	AN	51	52	52	52	52
	BN	51	53	53	53	53
	D	52	54	53	53	54
	C	52	54	54	54	54
	AVG	51	52	52	52	52
APR	W	54	55	55	56	55
	AN	55	57	57	57	57
	BN	56	58	58	58	58
	D	56	58	58	58	58
	C	56	58	58	58	58
	AVG	55	57	57	57	57
MAY	W	58	62	61	61	61
	AN	60	62	61	61	61
	BN	59	62	61	61	62
	D	59	61	60	60	61
	C	60	62	62	62	62
	AVG	59	62	61	61	61
JUN	W	61	63	62	62	63
	AN	61	62	62	61	62
	BN	60	62	62	62	62
	D	60	63	62	62	63
	C	61	63	64	63	64
	AVG	61	63	62	62	63
JUL	W	62	63	63	63	63
	AN	61	63	63	63	63
	BN	61	63	64	64	63
	D	61	64	64	65	64
	C	63	68	68	68	67
	AVG	62	64	64	64	64

Alternative 4: Sacramento River at Hamilton City						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
AUG	W	62	65	65	65	65
	AN	62	64	65	65	64
	BN	62	65	65	65	65
	D	62	65	66	66	65
	C	65	71	71	72	70
	AVG	62	66	66	66	66
SEP	W	60	61	64	61	61
	AN	62	63	65	63	63
	BN	62	65	65	66	65
	D	62	67	67	67	66
	C	64	69	69	69	69
	AVG	62	65	66	65	64
OCT	W	55	58	58	58	58
	AN	56	58	58	58	58
	BN	56	59	59	59	59
	D	56	59	59	59	59
	C	57	60	60	60	60
	AVG	56	59	59	59	59
NOV	W	50	53	52	52	52
	AN	50	53	52	53	53
	BN	50	53	53	53	53
	D	51	53	53	53	53
	C	52	54	54	54	54
	AVG	51	53	53	53	53
DEC	W	46	47	47	47	47
	AN	46	48	47	48	48
	BN	45	48	48	48	47
	D	45	48	48	48	48
	C	45	48	48	48	48
	AVG	46	47	48	47	47

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Hamilton City, Year-Round**

Alternative 4: Sacramento River at Hamilton City					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	1.6 (3.6%)	0 (0%)	0.1 (0.2%)	0 (0%)
	AN	1.8 (3.9%)	0 (0%)	0.1 (0.2%)	0 (0%)
	BN	1.9 (4.4%)	0 (0%)	0.1 (0.1%)	0 (0.1%)
	D	2.1 (4.8%)	0 (-0.1%)	0.1 (0.1%)	0 (-0.1%)
	C	2.5 (5.6%)	0 (0%)	0 (0.1%)	-0.1 (-0.3%)
	AVG	1.9 (4.3%)	0 (0%)	0.1 (0.1%)	0 (0%)
FEB	W	1.7 (3.6%)	0 (0%)	0 (0.1%)	0 (0%)
	AN	1.7 (3.7%)	0 (0%)	0 (0.1%)	0 (0%)
	BN	1.8 (4%)	0 (-0.1%)	0 (0%)	0 (0%)
	D	2.1 (4.4%)	0 (0%)	0 (0%)	0 (0%)
	C	2.2 (4.7%)	0 (-0.1%)	0 (0%)	0 (0%)
	AVG	1.9 (4%)	0 (0%)	0 (0%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0%)	0 (0%)	0 (0%)
	AN	1.7 (3.3%)	0 (0%)	0 (-0.1%)	0 (0.1%)
	BN	1.9 (3.7%)	0 (0.1%)	-0.2 (-0.3%)	0.1 (0.1%)
	D	1.8 (3.5%)	0 (-0.1%)	0 (0%)	0 (0.1%)
	C	1.7 (3.3%)	-0.2 (-0.3%)	0 (0%)	0.1 (0.2%)
	AVG	1.7 (3.3%)	0 (0%)	0 (-0.1%)	0 (0.1%)
APR	W	1.9 (3.5%)	0 (0.1%)	0 (-0.1%)	0 (0%)
	AN	2 (3.6%)	-0.1 (-0.2%)	0 (0%)	0 (0%)
	BN	1.9 (3.3%)	-0.2 (-0.3%)	0 (0.1%)	0.3 (0.5%)
	D	1.9 (3.4%)	-0.2 (-0.3%)	0.1 (0.1%)	0.2 (0.3%)
	C	2 (3.7%)	0 (-0.1%)	0 (0%)	0 (-0.1%)
	AVG	1.9 (3.5%)	-0.1 (-0.1%)	0 (0%)	0.1 (0.1%)
MAY	W	3 (5.1%)	-0.3 (-0.4%)	0 (0%)	0.2 (0.3%)
	AN	1.4 (2.3%)	-0.7 (-1.1%)	0.2 (0.3%)	0.3 (0.5%)
	BN	2 (3.3%)	-0.5 (-0.9%)	-0.1 (-0.2%)	0.6 (1%)
	D	1.4 (2.4%)	-0.6 (-1%)	-0.1 (-0.2%)	0.5 (0.8%)
	C	2 (3.4%)	0 (0%)	0 (-0.1%)	-0.1 (-0.2%)
	AVG	2.1 (3.5%)	-0.4 (-0.7%)	0 (0%)	0.3 (0.5%)
JUN	W	1.3 (2.2%)	-0.6 (-0.9%)	-0.1 (-0.1%)	0.5 (0.7%)
	AN	0.8 (1.3%)	-0.9 (-1.5%)	0.1 (0.2%)	1 (1.7%)
	BN	1.5 (2.5%)	-0.5 (-0.8%)	-0.1 (-0.2%)	0.5 (0.9%)
	D	1.8 (3%)	-0.4 (-0.6%)	-0.1 (-0.1%)	0.4 (0.7%)
	C	2.2 (3.7%)	0.1 (0.2%)	0.2 (0.3%)	0.1 (0.1%)
	AVG	1.5 (2.5%)	-0.5 (-0.7%)	0 (0%)	0.5 (0.8%)
JUL	W	1.3 (2.1%)	0 (0%)	0 (0%)	0 (0%)
	AN	1.9 (3.1%)	0.2 (0.4%)	0 (-0.1%)	0 (-0.1%)
	BN	2.4 (3.9%)	0.3 (0.5%)	0.1 (0.1%)	-0.1 (-0.2%)
	D	3.4 (5.5%)	0.9 (1.4%)	-0.3 (-0.5%)	-0.6 (-1%)
	C	4.8 (7.7%)	0 (0.1%)	0 (0%)	-0.8 (-1.1%)
	AVG	2.5 (4.1%)	0.3 (0.5%)	-0.1 (-0.1%)	-0.3 (-0.4%)

Alternative 4: Sacramento River at Hamilton City					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	3.4 (5.4%)	0.1 (0.2%)	0.1 (0.1%)	-0.3 (-0.5%)
	AN	2.6 (4.1%)	0.5 (0.7%)	-0.1 (-0.1%)	-0.7 (-1.1%)
	BN	3.4 (5.5%)	0.4 (0.6%)	0.2 (0.3%)	-0.5 (-0.8%)
	D	4.3 (7%)	1.2 (1.8%)	-0.1 (-0.1%)	-1.1 (-1.6%)
	C	7 (10.8%)	0.3 (0.5%)	-0.5 (-0.6%)	-1.1 (-1.6%)
	AVG	4 (6.4%)	0.5 (0.7%)	0 (-0.1%)	-0.7 (-1.1%)
SEP	W	1.1 (1.9%)	0 (0.1%)	3.1 (5%)	-0.2 (-0.4%)
	AN	1.4 (2.2%)	0.6 (0.9%)	1.8 (2.8%)	-0.6 (-0.9%)
	BN	4.2 (6.7%)	1 (1.5%)	-0.7 (-1.1%)	-0.6 (-0.9%)
	D	4.7 (7.6%)	-0.4 (-0.6%)	-0.3 (-0.4%)	-0.5 (-0.7%)
	C	4.9 (7.6%)	-0.1 (-0.1%)	-0.2 (-0.2%)	-0.6 (-0.8%)
	AVG	3 (4.9%)	0.2 (0.3%)	1 (1.6%)	-0.4 (-0.7%)
OCT	W	2.8 (5.1%)	0.1 (0.2%)	-0.2 (-0.3%)	0 (0%)
	AN	2.7 (4.9%)	0 (0.1%)	-0.2 (-0.3%)	-0.1 (-0.1%)
	BN	3.1 (5.6%)	0.2 (0.4%)	-0.3 (-0.4%)	-0.2 (-0.3%)
	D	3.1 (5.5%)	0.1 (0.2%)	-0.2 (-0.4%)	-0.2 (-0.4%)
	C	3.3 (5.7%)	0 (0.1%)	-0.2 (-0.3%)	-0.2 (-0.4%)
	AVG	3 (5.3%)	0.1 (0.2%)	-0.2 (-0.3%)	-0.1 (-0.2%)
NOV	W	2.3 (4.6%)	-0.1 (-0.2%)	-0.2 (-0.4%)	0 (0%)
	AN	2.4 (4.7%)	-0.1 (-0.1%)	-0.2 (-0.4%)	0 (0.1%)
	BN	2.5 (5%)	-0.1 (-0.3%)	-0.2 (-0.5%)	-0.1 (-0.1%)
	D	2.3 (4.6%)	-0.1 (-0.2%)	-0.2 (-0.3%)	0 (0%)
	C	2.5 (4.8%)	-0.1 (-0.2%)	-0.1 (-0.1%)	-0.1 (-0.1%)
	AVG	2.4 (4.7%)	-0.1 (-0.2%)	-0.2 (-0.3%)	0 (0%)
DEC	W	1.4 (3%)	-0.1 (-0.1%)	0.2 (0.5%)	0 (0.1%)
	AN	2 (4.4%)	0 (0%)	-0.1 (-0.1%)	0 (0.1%)
	BN	2.2 (4.8%)	0.1 (0.1%)	0 (0.1%)	-0.1 (-0.2%)
	D	2.1 (4.7%)	0 (-0.1%)	0.1 (0.2%)	-0.1 (-0.2%)
	C	2.2 (4.9%)	0 (0%)	0.1 (0.2%)	0 (0%)
	AVG	1.9 (4.2%)	0 (0%)	0.1 (0.2%)	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.

1 **11D.4.6 Trinity River below Lewiston Reservoir**

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

Alternative 4: Trinity River below Lewiston Reservoir						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	41	43	43	43	43
	AN	38	41	41	41	40
	BN	39	41	41	41	41
	D	39	41	41	42	41
	C	39	42	42	42	42
	AVG	39	42	42	42	41
FEB	W	43	45	45	45	45
	AN	43	45	45	45	45
	BN	42	44	44	44	44
	D	42	45	45	45	45
	C	43	45	46	46	46
	AVG	43	45	45	45	45
MAR	W	46	48	48	48	48
	AN	47	49	49	49	49
	BN	47	48	48	48	49
	D	48	50	50	50	50
	C	48	50	50	50	50
	AVG	47	49	49	49	49
APR	W	49	51	51	51	51
	AN	50	52	52	52	52
	BN	51	53	53	53	53
	D	51	53	53	53	53
	C	50	52	53	52	52
	AVG	50	52	52	52	52
MAY	W	46	48	48	48	48
	AN	46	48	48	48	48
	BN	46	49	49	49	49
	D	47	49	49	49	49
	C	49	52	52	52	53
	AVG	47	49	49	49	49
JUN	W	48	51	51	51	51
	AN	51	52	52	52	52
	BN	52	53	53	53	53
	D	52	54	55	54	54
	C	56	59	59	59	60
	AVG	51	53	53	53	53
JUL	W	51	55	54	54	54
	AN	52	54	52	52	53
	BN	52	55	54	55	55
	D	51	54	53	53	54
	C	53	60	60	61	59
	AVG	51	55	55	55	55

Alternative 4: Trinity River below Lewiston Reservoir						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
AUG	W	52	54	54	54	54
	AN	51	53	53	53	52
	BN	52	55	55	55	55
	D	50	54	55	55	54
	C	54	63	63	64	62
	AVG	52	56	55	56	55
SEP	W	49	51	52	51	51
	AN	50	51	52	52	51
	BN	51	55	55	55	55
	D	50	56	56	56	56
	C	57	62	62	63	62
	AVG	51	54	55	55	54
OCT	W	48	51	51	51	51
	AN	49	52	52	52	52
	BN	50	53	53	53	53
	D	50	52	52	52	52
	C	51	56	55	55	55
	AVG	49	52	52	52	52
NOV	W	44	47	47	47	47
	AN	45	47	47	47	47
	BN	45	47	48	48	47
	D	44	47	47	47	47
	C	46	48	48	48	48
	AVG	45	47	47	47	47
DEC	W	41	43	43	43	43
	AN	39	43	43	43	43
	BN	40	42	42	42	42
	D	40	42	42	42	42
	C	39	41	41	41	41
	AVG	40	42	42	42	42

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River below Lewiston Reservoir, Year-Round**

Alternative 4: Trinity River below Lewiston Reservoir					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	1.9 (4.8%)	-0.1 (-0.2%)	0 (0%)	0 (0%)
	AN	2.4 (6.3%)	0 (0%)	0.1 (0.2%)	-0.4 (-1%)
	BN	2 (5.2%)	-0.1 (-0.2%)	-0.1 (-0.2%)	0 (0%)
	D	2.9 (7.5%)	0.2 (0.4%)	-0.3 (-0.7%)	-0.7 (-1.6%)
	C	2.4 (6%)	0.1 (0.1%)	0 (0.1%)	-0.1 (-0.3%)
	AVG	2.3 (5.8%)	0 (0%)	-0.1 (-0.1%)	-0.2 (-0.5%)
FEB	W	2.4 (5.5%)	0 (-0.1%)	0 (0%)	0 (0.1%)
	AN	2.2 (5.2%)	0 (-0.1%)	0.1 (0.2%)	0 (0.1%)
	BN	2.1 (5.1%)	0 (0%)	0 (0%)	0 (0%)
	D	2.3 (5.4%)	0 (0%)	0.1 (0.1%)	0 (0.1%)
	C	2.4 (5.4%)	0.2 (0.3%)	0 (0%)	0 (0%)
	AVG	2.3 (5.3%)	0 (0%)	0 (0%)	0 (0%)
MAR	W	2 (4.3%)	0 (0%)	-0.1 (-0.3%)	0 (0%)
	AN	1.6 (3.5%)	-0.1 (-0.1%)	0 (0%)	0 (-0.1%)
	BN	1.8 (3.8%)	0 (-0.1%)	-0.1 (-0.3%)	0.4 (0.9%)
	D	1.4 (3%)	-0.1 (-0.1%)	0.1 (0.3%)	0.1 (0.2%)
	C	2.1 (4.4%)	0 (0%)	0 (0%)	0 (0%)
	AVG	1.8 (3.8%)	0 (-0.1%)	0 (-0.1%)	0.1 (0.2%)
APR	W	1.9 (4%)	0.4 (0.9%)	-0.4 (-0.8%)	0.2 (0.3%)
	AN	2.3 (4.6%)	0.3 (0.7%)	-0.1 (-0.1%)	-0.4 (-0.8%)
	BN	2.5 (4.9%)	0 (-0.1%)	0 (0%)	0.1 (0.2%)
	D	2.3 (4.6%)	0.1 (0.1%)	0 (-0.1%)	-0.1 (-0.1%)
	C	2.2 (4.3%)	0 (0%)	0.2 (0.4%)	0.1 (0.3%)
	AVG	2.2 (4.4%)	0.2 (0.4%)	-0.1 (-0.2%)	0 (0%)
MAY	W	2.5 (5.4%)	0 (0.1%)	0 (0%)	0 (-0.1%)
	AN	2.3 (5%)	0 (0%)	0 (0%)	0 (0%)
	BN	2.2 (4.7%)	0 (0%)	0 (0.1%)	0.1 (0.1%)
	D	2.5 (5.4%)	0 (-0.1%)	0.1 (0.1%)	0 (0%)
	C	3.2 (6.5%)	0 (0%)	0 (0%)	0.2 (0.4%)
	AVG	2.5 (5.4%)	0 (0%)	0 (0%)	0 (0.1%)
JUN	W	2.2 (4.5%)	-0.1 (-0.1%)	0 (0.1%)	0.1 (0.1%)
	AN	1.1 (2.2%)	0 (0%)	0 (0%)	0 (0%)
	BN	1.6 (3%)	-0.3 (-0.5%)	0.1 (0.3%)	0.2 (0.5%)
	D	2.5 (4.7%)	0.2 (0.3%)	0.1 (0.2%)	-0.1 (-0.3%)
	C	2.9 (5.3%)	-0.8 (-1.3%)	0.2 (0.3%)	1.2 (2.1%)
	AVG	2.1 (4.1%)	-0.1 (-0.3%)	0.1 (0.2%)	0.2 (0.4%)
JUL	W	3 (5.9%)	-0.8 (-1.5%)	0 (0%)	0.1 (0.1%)
	AN	0.9 (1.8%)	-1.1 (-2.1%)	0 (0%)	0.9 (1.7%)
	BN	2.5 (4.9%)	-0.7 (-1.2%)	-0.3 (-0.5%)	0.4 (0.8%)
	D	2.5 (4.9%)	-0.2 (-0.3%)	-0.1 (-0.2%)	0.2 (0.4%)
	C	7.9 (15%)	1 (1.7%)	-0.2 (-0.3%)	-1.2 (-2%)
	AVG	3.2 (6.3%)	-0.4 (-0.8%)	-0.1 (-0.2%)	0.1 (0.2%)

Alternative 4: Trinity River below Lewiston Reservoir					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	1.6 (3%)	-0.5 (-0.9%)	0 (0%)	0.1 (0.1%)
	AN	2 (4%)	-0.2 (-0.3%)	0 (0%)	-0.4 (-0.8%)
	BN	3.1 (6%)	0.1 (0.2%)	0 (-0.1%)	-0.3 (-0.5%)
	D	5 (9.9%)	0.9 (1.7%)	-0.5 (-0.9%)	-0.8 (-1.4%)
	C	9.7 (18%)	0.3 (0.4%)	-0.4 (-0.6%)	-1.9 (-3%)
	AVG	3.9 (7.5%)	0.1 (0.2%)	-0.2 (-0.3%)	-0.5 (-1%)
SEP	W	2 (4.2%)	0.1 (0.2%)	0.6 (1.2%)	0 (-0.1%)
	AN	2 (4.1%)	0.3 (0.6%)	0 (0%)	-0.4 (-0.7%)
	BN	3.7 (7.2%)	0.1 (0.3%)	0 (0%)	-0.1 (-0.2%)
	D	6.3 (12.7%)	0.5 (0.9%)	-0.7 (-1.3%)	-0.8 (-1.5%)
	C	6.3 (11.1%)	0.6 (1%)	-0.9 (-1.4%)	-1.2 (-1.9%)
	AVG	3.9 (7.7%)	0.3 (0.6%)	-0.1 (-0.2%)	-0.4 (-0.8%)
OCT	W	3 (6.2%)	-0.3 (-0.5%)	0.3 (0.6%)	0 (-0.1%)
	AN	2.5 (5%)	0.1 (0.2%)	0 (0%)	-0.3 (-0.5%)
	BN	3 (6%)	0.1 (0.2%)	0 (0%)	-0.2 (-0.3%)
	D	2.8 (5.7%)	0.6 (1.2%)	-0.4 (-0.7%)	-0.6 (-1.1%)
	C	3.9 (7.6%)	-0.5 (-1%)	-0.4 (-0.8%)	0.3 (0.5%)
	AVG	3 (6.1%)	0 (0%)	-0.1 (-0.1%)	-0.2 (-0.3%)
NOV	W	2.6 (5.8%)	0 (-0.1%)	0.2 (0.3%)	0.1 (0.2%)
	AN	2.4 (5.3%)	0.1 (0.3%)	0 (0%)	0 (0%)
	BN	3.1 (6.8%)	0.5 (1.1%)	-0.3 (-0.7%)	-0.4 (-0.8%)
	D	2.9 (6.6%)	0.2 (0.4%)	-0.3 (-0.5%)	-0.1 (-0.2%)
	C	2 (4.3%)	-0.1 (-0.2%)	0.2 (0.4%)	0.2 (0.4%)
	AVG	2.6 (5.8%)	0.1 (0.2%)	0 (-0.1%)	0 (-0.1%)
DEC	W	1.9 (4.7%)	-0.2 (-0.4%)	-0.1 (-0.2%)	0 (0.1%)
	AN	3.4 (8.6%)	-0.2 (-0.5%)	-0.1 (-0.2%)	0.1 (0.1%)
	BN	2.5 (6.3%)	0 (0%)	-0.3 (-0.6%)	0 (0.1%)
	D	1.9 (4.7%)	0 (0.1%)	-0.2 (-0.4%)	-0.1 (-0.1%)
	C	1.7 (4.5%)	0 (0%)	0.3 (0.7%)	0.1 (0.1%)
	AVG	2.2 (5.4%)	-0.1 (-0.2%)	-0.1 (-0.2%)	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.

1 **11D.4.7 Trinity River at Douglas City**

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

Alternative 4: Trinity River at Douglas City						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	40	42	42	42	42
	AN	39	40	40	40	40
	BN	38	40	40	40	40
	D	38	40	40	40	40
	C	39	41	41	41	41
	AVG	39	41	41	41	41
FEB	W	43	45	45	45	45
	AN	43	45	45	45	45
	BN	42	44	44	44	44
	D	43	44	44	44	44
	C	43	45	45	45	45
	AVG	43	45	45	45	45
MAR	W	46	47	47	47	47
	AN	47	48	48	48	48
	BN	47	48	48	48	48
	D	48	49	49	49	49
	C	48	49	49	49	49
	AVG	47	48	48	48	48
APR	W	51	52	52	52	52
	AN	52	53	53	53	53
	BN	52	54	54	54	54
	D	53	54	54	54	54
	C	52	54	54	54	54
	AVG	52	53	53	53	53
MAY	W	48	50	50	50	50
	AN	48	50	50	50	50
	BN	49	51	51	51	51
	D	49	51	52	51	51
	C	52	55	55	55	55
	AVG	49	51	51	51	51
JUN	W	51	54	54	53	54
	AN	54	55	55	55	55
	BN	55	57	57	57	57
	D	57	59	60	60	59
	C	60	63	63	62	63
	AVG	55	57	57	57	57
JUL	W	57	61	60	60	60
	AN	58	60	59	59	60
	BN	59	62	61	61	62
	D	59	62	62	62	62
	C	62	67	67	67	67
	AVG	59	62	62	62	62

Alternative 4: Trinity River at Douglas City						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
AUG	W	60	62	62	62	62
	AN	59	61	61	61	61
	BN	60	63	63	63	63
	D	58	62	62	63	62
	C	61	67	68	68	66
	AVG	60	63	63	63	63
SEP	W	55	57	58	57	57
	AN	55	57	57	57	57
	BN	56	59	59	59	59
	D	55	60	59	60	59
	C	59	64	65	64	64
	AVG	56	59	59	59	59
OCT	W	50	53	53	53	53
	AN	51	53	53	53	53
	BN	52	54	54	54	54
	D	51	53	53	53	53
	C	53	56	55	55	55
	AVG	51	54	54	54	54
NOV	W	44	46	46	46	46
	AN	45	47	47	47	47
	BN	45	47	47	47	47
	D	44	46	46	46	46
	C	46	47	48	47	48
	AVG	44	47	47	47	47
DEC	W	41	43	43	43	43
	AN	40	42	42	42	42
	BN	39	42	41	42	42
	D	40	42	42	42	42
	C	39	41	41	41	41
	AVG	40	42	42	42	42

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River at Douglas City, Year-Round**

Alternative 4: Trinity River at Douglas City					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	1.5 (3.6%)	-0.1 (-0.3%)	0 (0.1%)	0 (0%)
	AN	1.6 (4.1%)	0 (0%)	0.2 (0.4%)	-0.2 (-0.4%)
	BN	1.5 (3.8%)	0 (-0.1%)	-0.1 (-0.1%)	0 (0%)
	D	2.3 (5.9%)	0.1 (0.2%)	-0.1 (-0.3%)	-0.3 (-0.9%)
	C	2.2 (5.5%)	0.1 (0.2%)	0 (-0.1%)	-0.1 (-0.2%)
	AVG	1.8 (4.5%)	0 (0%)	0 (0%)	-0.1 (-0.3%)
FEB	W	1.6 (3.6%)	0 (-0.1%)	0 (0%)	0 (0.1%)
	AN	1.5 (3.5%)	0 (0%)	0 (0.1%)	0 (0%)
	BN	1.6 (3.8%)	0 (0%)	0 (0%)	0 (0%)
	D	1.6 (3.7%)	0 (0%)	0 (0.1%)	0 (0%)
	C	1.9 (4.4%)	0.1 (0.2%)	0 (0%)	0 (0%)
	AVG	1.6 (3.8%)	0 (0%)	0 (0%)	0 (0%)
MAR	W	1.2 (2.6%)	0 (0%)	0 (-0.1%)	0 (0%)
	AN	1 (2.1%)	0 (0%)	0 (0%)	0 (0%)
	BN	1.1 (2.4%)	0 (-0.1%)	0 (0%)	0.1 (0.3%)
	D	1 (2.1%)	0 (0%)	0.1 (0.1%)	0 (0.1%)
	C	1.5 (3.2%)	0 (0%)	0 (0%)	0 (0%)
	AVG	1.2 (2.5%)	0 (0%)	0 (0%)	0 (0.1%)
APR	W	1.4 (2.7%)	0.2 (0.3%)	-0.2 (-0.3%)	0.1 (0.1%)
	AN	1.6 (3.1%)	0.2 (0.4%)	0 (-0.1%)	-0.2 (-0.4%)
	BN	1.7 (3.2%)	0 (0%)	0 (0%)	0.1 (0.1%)
	D	1.8 (3.3%)	0 (0.1%)	0 (0%)	0 (-0.1%)
	C	1.8 (3.5%)	0 (0%)	0.1 (0.2%)	0.1 (0.2%)
	AVG	1.6 (3.1%)	0.1 (0.2%)	0 (-0.1%)	0 (0%)
MAY	W	2.4 (4.9%)	0 (0.1%)	0 (0%)	0 (0%)
	AN	2.2 (4.7%)	0 (0%)	0 (0%)	0 (0%)
	BN	2.1 (4.3%)	0 (-0.1%)	0 (0.1%)	0 (0.1%)
	D	2.5 (5%)	0 (-0.1%)	0 (0.1%)	0 (0%)
	C	3 (5.8%)	0 (0%)	0 (0%)	0.2 (0.3%)
	AVG	2.4 (4.9%)	0 (0%)	0 (0%)	0 (0%)
JUN	W	2.1 (4.1%)	-0.1 (-0.1%)	0 (0.1%)	0.1 (0.1%)
	AN	1 (1.8%)	0 (0%)	0 (0%)	0 (0%)
	BN	1.6 (3%)	-0.2 (-0.3%)	0.1 (0.2%)	0.2 (0.3%)
	D	2.5 (4.4%)	0.1 (0.2%)	0.1 (0.1%)	-0.1 (-0.2%)
	C	2.7 (4.5%)	-0.5 (-0.8%)	0.1 (0.2%)	0.7 (1.1%)
	AVG	2 (3.7%)	-0.1 (-0.2%)	0.1 (0.1%)	0.1 (0.2%)
JUL	W	3.2 (5.6%)	-0.6 (-0.9%)	0 (0%)	0 (0.1%)
	AN	1.5 (2.6%)	-0.8 (-1.3%)	0 (0%)	0.6 (1%)
	BN	2.2 (3.8%)	-0.4 (-0.7%)	-0.2 (-0.3%)	0.3 (0.5%)
	D	2.7 (4.5%)	0 (-0.1%)	-0.1 (-0.2%)	0.1 (0.1%)
	C	5.4 (8.8%)	0.8 (1.2%)	-0.1 (-0.1%)	-0.6 (-0.9%)
	AVG	3 (5.1%)	-0.2 (-0.4%)	-0.1 (-0.1%)	0.1 (0.1%)

Alternative 4: Trinity River at Douglas City					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	2.3 (3.8%)	-0.3 (-0.4%)	0 (0%)	0 (0%)
	AN	2.5 (4.3%)	-0.1 (-0.1%)	0 (0%)	-0.2 (-0.4%)
	BN	3.1 (5.2%)	0.1 (0.1%)	0 (0%)	-0.1 (-0.2%)
	D	4.2 (7.2%)	0.5 (0.8%)	-0.3 (-0.4%)	-0.4 (-0.7%)
	C	7.1 (11.7%)	0.8 (1.2%)	-0.2 (-0.3%)	-1.7 (-2.5%)
	AVG	3.6 (6%)	0.1 (0.2%)	-0.1 (-0.1%)	-0.4 (-0.6%)
SEP	W	2.5 (4.6%)	0.1 (0.1%)	0.4 (0.6%)	0 (0%)
	AN	2.5 (4.5%)	0.2 (0.3%)	0 (0%)	-0.2 (-0.4%)
	BN	3.5 (6.2%)	0.1 (0.2%)	0 (0%)	-0.1 (-0.1%)
	D	5 (9.1%)	0.3 (0.5%)	-0.4 (-0.7%)	-0.5 (-0.8%)
	C	5.2 (8.9%)	-0.1 (-0.1%)	0.8 (1.3%)	-0.5 (-0.8%)
	AVG	3.6 (6.5%)	0.1 (0.2%)	0.1 (0.2%)	-0.2 (-0.4%)
OCT	W	2.4 (4.8%)	-0.2 (-0.3%)	0.2 (0.3%)	0 (0%)
	AN	2 (4%)	0.1 (0.3%)	0 (0%)	-0.1 (-0.3%)
	BN	2.4 (4.7%)	0.1 (0.1%)	0 (0%)	-0.1 (-0.2%)
	D	2.3 (4.5%)	0.3 (0.6%)	-0.2 (-0.4%)	-0.3 (-0.6%)
	C	2.7 (5.2%)	-0.4 (-0.6%)	-0.2 (-0.5%)	0.2 (0.4%)
	AVG	2.4 (4.7%)	0 (0%)	0 (0%)	-0.1 (-0.1%)
NOV	W	2.1 (4.7%)	0 (0%)	0.1 (0.2%)	0 (0%)
	AN	2.1 (4.6%)	0.1 (0.1%)	0 (0%)	0 (0%)
	BN	2.5 (5.6%)	0.3 (0.6%)	-0.2 (-0.4%)	-0.2 (-0.4%)
	D	2.3 (5.2%)	0.1 (0.2%)	-0.1 (-0.3%)	-0.1 (-0.1%)
	C	1.8 (3.9%)	-0.1 (-0.1%)	0.1 (0.2%)	0.1 (0.2%)
	AVG	2.2 (4.8%)	0.1 (0.1%)	0 (0%)	0 (-0.1%)
DEC	W	1.4 (3.4%)	0 (0%)	0.1 (0.2%)	0.1 (0.1%)
	AN	2.3 (5.7%)	-0.1 (-0.3%)	-0.1 (-0.1%)	0 (0.1%)
	BN	2.1 (5.4%)	0 (0%)	-0.1 (-0.3%)	0 (0%)
	D	1.8 (4.5%)	0 (0.1%)	-0.1 (-0.2%)	0 (-0.1%)
	C	2.2 (5.6%)	-0.1 (-0.1%)	0.2 (0.5%)	0.1 (0.2%)
	AVG	1.8 (4.6%)	0 (0%)	0 (0%)	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.

1 **11D.4.8 Trinity River below North Fork**

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

Alternative 4: Trinity River below North Fork						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	40	41	41	41	41
	AN	38	39	40	39	39
	BN	38	39	39	39	39
	D	38	39	39	39	39
	C	38	40	40	40	40
	AVG	39	40	40	40	40
FEB	W	43	44	44	44	44
	AN	43	44	44	44	44
	BN	43	44	44	44	44
	D	43	44	44	44	44
	C	43	45	45	45	45
	AVG	43	44	44	44	44
MAR	W	46	47	47	47	47
	AN	46	47	47	47	47
	BN	46	47	47	47	47
	D	47	48	48	48	48
	C	48	49	49	49	49
	AVG	47	47	47	47	47
APR	W	53	53	53	53	53
	AN	54	54	55	55	55
	BN	54	55	55	55	55
	D	54	55	55	55	55
	C	54	55	55	55	55
	AVG	53	54	54	55	55
MAY	W	50	52	52	52	52
	AN	50	52	52	52	52
	BN	51	53	53	53	53
	D	51	54	54	54	54
	C	54	57	57	57	57
	AVG	51	53	53	53	53
JUN	W	55	57	57	57	57
	AN	58	58	58	58	58
	BN	60	61	61	61	61
	D	62	64	64	64	64
	C	63	66	66	66	66
	AVG	59	61	61	61	61
JUL	W	63	66	66	66	66
	AN	63	66	65	65	66
	BN	65	67	67	67	67
	D	65	68	68	68	68
	C	68	71	71	71	71
	AVG	65	67	67	67	67

Alternative 4: Trinity River below North Fork						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
AUG	W	65	68	67	67	67
	AN	64	67	67	67	67
	BN	65	68	68	68	68
	D	64	67	67	67	67
	C	65	69	70	70	69
	AVG	65	68	68	68	68
SEP	W	59	62	62	62	62
	AN	59	61	61	61	61
	BN	59	62	63	63	63
	D	58	62	62	62	62
	C	61	64	64	64	63
	AVG	59	62	62	62	62
OCT	W	53	55	55	55	55
	AN	53	55	55	55	55
	BN	54	56	56	56	56
	D	53	54	54	55	54
	C	54	56	56	56	56
	AVG	53	55	55	55	55
NOV	W	44	45	45	45	45
	AN	44	46	46	46	46
	BN	44	46	46	46	46
	D	44	45	45	45	45
	C	45	47	47	47	47
	AVG	44	46	46	46	46
DEC	W	41	42	42	42	42
	AN	40	42	41	41	41
	BN	39	41	41	41	41
	D	40	41	41	41	41
	C	38	40	40	40	40
	AVG	40	41	41	41	41

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River below North Fork, Year-Round**

Alternative 4: Trinity River below North Fork					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	1 (2.6%)	-0.1 (-0.2%)	0 (0.1%)	0 (0%)
	AN	1 (2.7%)	0 (0%)	0.2 (0.5%)	-0.1 (-0.1%)
	BN	1 (2.7%)	0 (0%)	0 (-0.1%)	0 (0%)
	D	1.6 (4.3%)	0 (0.1%)	-0.1 (-0.1%)	-0.2 (-0.4%)
	C	1.7 (4.5%)	0 (0%)	0 (0.1%)	0 (0%)
	AVG	1.3 (3.3%)	0 (-0.1%)	0 (0%)	0 (-0.1%)
FEB	W	1.1 (2.4%)	0 (0%)	0 (0.1%)	0 (0.1%)
	AN	1 (2.3%)	0 (0%)	0.1 (0.1%)	0 (-0.1%)
	BN	1.1 (2.7%)	0 (0%)	0 (0%)	0 (0%)
	D	1.1 (2.5%)	0 (0%)	0 (0%)	0 (0%)
	C	1.4 (3.3%)	0 (0.1%)	0 (0%)	0 (0%)
	AVG	1.1 (2.6%)	0 (0%)	0 (0%)	0 (0%)
MAR	W	0.7 (1.6%)	0 (0%)	0 (0%)	0 (0%)
	AN	0.6 (1.3%)	0 (0%)	0 (0%)	0 (0%)
	BN	0.7 (1.6%)	0 (0%)	0 (0%)	0 (0.1%)
	D	0.7 (1.5%)	0 (0%)	0 (0%)	0 (0%)
	C	1.1 (2.2%)	0 (0%)	0 (0%)	0 (0%)
	AVG	0.8 (1.6%)	0 (0%)	0 (0%)	0 (0%)
APR	W	0.9 (1.6%)	0 (0.1%)	-0.1 (-0.1%)	0 (0%)
	AN	1 (1.9%)	0.1 (0.2%)	0 (0%)	-0.1 (-0.1%)
	BN	1 (2%)	0 (0%)	0 (0%)	0 (0%)
	D	1.2 (2.2%)	0 (0%)	0 (0%)	0 (0%)
	C	1.4 (2.6%)	0 (0%)	0.1 (0.1%)	0 (0.1%)
	AVG	1.1 (2%)	0 (0.1%)	0 (0%)	0 (0%)
MAY	W	2.1 (4.2%)	0 (0%)	0 (0%)	0 (0%)
	AN	2.1 (4.1%)	0 (0%)	0 (0%)	0 (0%)
	BN	1.9 (3.7%)	0 (0%)	0 (0%)	0 (0.1%)
	D	2.2 (4.3%)	0 (0%)	0 (0.1%)	0 (0%)
	C	2.7 (5%)	0 (0%)	0 (0%)	0.1 (0.2%)
	AVG	2.2 (4.2%)	0 (0%)	0 (0%)	0 (0%)
JUN	W	1.8 (3.3%)	0 (-0.1%)	0 (0%)	0 (0.1%)
	AN	0.8 (1.3%)	0 (0%)	0 (0%)	0 (0%)
	BN	1.6 (2.7%)	-0.1 (-0.2%)	0.1 (0.1%)	0.1 (0.2%)
	D	2.3 (3.7%)	0.1 (0.1%)	0 (0%)	-0.1 (-0.1%)
	C	2.3 (3.6%)	-0.3 (-0.4%)	0.1 (0.1%)	0.4 (0.6%)
	AVG	1.8 (3.1%)	-0.1 (-0.1%)	0 (0%)	0.1 (0.1%)
JUL	W	3.1 (4.9%)	-0.3 (-0.5%)	0 (0%)	0 (0%)
	AN	1.7 (2.7%)	-0.5 (-0.7%)	0 (0%)	0.4 (0.6%)
	BN	2 (3.1%)	-0.3 (-0.4%)	-0.1 (-0.2%)	0.2 (0.2%)
	D	2.5 (3.9%)	0 (0%)	-0.1 (-0.1%)	0 (0.1%)
	C	3.7 (5.4%)	0.3 (0.5%)	0 (-0.1%)	-0.3 (-0.4%)
	AVG	2.7 (4.1%)	-0.2 (-0.2%)	0 (-0.1%)	0.1 (0.1%)

Alternative 4: Trinity River below North Fork					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	2.4 (3.7%)	-0.1 (-0.2%)	0 (0%)	0 (0%)
	AN	2.6 (4.1%)	0 (-0.1%)	0 (0%)	-0.1 (-0.2%)
	BN	2.9 (4.4%)	0 (0.1%)	0 (0%)	-0.1 (-0.1%)
	D	3.5 (5.5%)	0.2 (0.4%)	-0.1 (-0.2%)	-0.2 (-0.3%)
	C	4.4 (6.8%)	0.5 (0.8%)	-0.1 (-0.1%)	-0.7 (-1%)
	AVG	3.1 (4.7%)	0.1 (0.1%)	0 (-0.1%)	-0.2 (-0.2%)
SEP	W	2.6 (4.4%)	0 (0.1%)	0.2 (0.3%)	0 (0%)
	AN	2.6 (4.4%)	0.1 (0.1%)	0 (0%)	-0.1 (-0.2%)
	BN	3.1 (5.2%)	0.1 (0.1%)	0 (0%)	0 (-0.1%)
	D	3.9 (6.6%)	0.2 (0.2%)	-0.2 (-0.3%)	-0.3 (-0.4%)
	C	3.1 (5.1%)	0.1 (0.1%)	0.3 (0.5%)	-0.2 (-0.4%)
	AVG	3 (5.1%)	0.1 (0.1%)	0.1 (0.1%)	-0.1 (-0.2%)
OCT	W	1.9 (3.6%)	-0.1 (-0.1%)	0.1 (0.1%)	0 (0%)
	AN	1.8 (3.4%)	-0.1 (-0.1%)	0 (0%)	0 (-0.1%)
	BN	2 (3.7%)	0 (0.1%)	0 (0%)	-0.1 (-0.1%)
	D	1.9 (3.7%)	0.2 (0.3%)	-0.1 (-0.2%)	-0.2 (-0.3%)
	C	2.5 (4.7%)	0 (-0.1%)	-0.1 (-0.2%)	0 (0%)
	AVG	2 (3.8%)	0 (0%)	0 (0%)	-0.1 (-0.1%)
NOV	W	1.6 (3.7%)	0 (-0.1%)	0 (0.1%)	0 (0%)
	AN	1.6 (3.5%)	0 (0.1%)	0 (0%)	0 (0%)
	BN	1.9 (4.4%)	0.1 (0.2%)	-0.1 (-0.2%)	-0.1 (-0.2%)
	D	1.7 (4%)	0 (0.1%)	-0.1 (-0.1%)	0 (0%)
	C	1.7 (3.7%)	0 (-0.1%)	0 (0.1%)	0.1 (0.1%)
	AVG	1.7 (3.8%)	0 (0%)	0 (0%)	0 (0%)
DEC	W	1 (2.4%)	0.1 (0.1%)	0.1 (0.3%)	0 (0.1%)
	AN	1.5 (3.7%)	-0.1 (-0.1%)	0 (-0.1%)	0 (0%)
	BN	1.7 (4.3%)	0 (0%)	-0.1 (-0.1%)	0 (0%)
	D	1.5 (3.7%)	0 (0.1%)	0 (-0.1%)	0 (-0.1%)
	C	1.9 (4.9%)	0 (-0.1%)	0.1 (0.2%)	0.1 (0.2%)
	AVG	1.4 (3.5%)	0 (0%)	0 (0.1%)	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.

1 **11D.4.9 Feather River at Fish Barrier Dam**

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

Alternative 4: Feather River at Fish Barrier Dam						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	48	51	51	51	51
	AN	47	50	51	50	50
	BN	48	51	51	51	51
	D	47	51	51	51	51
	C	48	51	51	51	51
	AVG	48	51	51	51	51
FEB	W	48	51	51	51	51
	AN	48	51	51	51	51
	BN	48	51	51	52	51
	D	49	52	52	52	52
	C	49	53	53	53	53
	AVG	48	51	51	51	51
MAR	W	49	51	51	51	51
	AN	49	51	51	51	51
	BN	50	53	53	53	53
	D	51	53	53	53	54
	C	51	54	54	54	54
	AVG	50	52	53	53	53
APR	W	51	52	53	52	52
	AN	51	53	53	53	53
	BN	52	54	54	54	53
	D	52	54	54	54	54
	C	52	54	54	54	54
	AVG	51	53	53	53	53
MAY	W	55	56	55	55	55
	AN	56	56	56	56	55
	BN	56	56	56	56	56
	D	56	56	56	56	56
	C	56	57	57	57	57
	AVG	55	56	56	56	56
JUN	W	57	58	58	57	58
	AN	58	58	58	58	58
	BN	58	58	58	58	58
	D	58	58	58	58	58
	C	58	59	59	59	59
	AVG	58	58	58	58	58
JUL	W	61	61	62	61	62
	AN	61	61	61	61	62
	BN	61	61	61	61	62
	D	61	61	62	62	62
	C	61	62	63	63	63
	AVG	61	61	62	62	62

Alternative 4: Feather River at Fish Barrier Dam						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
AUG	W	61	61	61	61	62
	AN	60	60	61	61	62
	BN	60	60	61	61	62
	D	60	62	61	61	61
	C	62	64	63	63	62
	AVG	61	61	61	61	62
SEP	W	56	55	57	56	57
	AN	56	55	57	56	58
	BN	56	57	58	58	61
	D	56	61	58	59	58
	C	58	63	62	63	59
	AVG	56	58	58	58	58
OCT	W	54	58	56	57	58
	AN	55	58	57	58	60
	BN	54	58	57	58	59
	D	54	59	57	60	59
	C	54	58	57	58	55
	AVG	54	58	57	58	58
NOV	W	52	58	56	58	57
	AN	53	58	56	57	59
	BN	53	58	57	58	57
	D	52	59	57	59	58
	C	53	58	58	58	56
	AVG	53	58	57	58	57
DEC	W	49	53	53	53	53
	AN	49	55	54	54	54
	BN	49	54	54	54	54
	D	49	54	53	54	54
	C	49	54	54	54	54
	AVG	49	54	53	54	54

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Fish Barrier Dam, Year-Round**

Alternative 4: Feather River at Fish Barrier Dam					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	2.8 (5.9%)	0 (0.1%)	0.2 (0.3%)	0.1 (0.1%)
	AN	3.1 (6.5%)	0 (0.1%)	0.2 (0.3%)	-0.1 (-0.1%)
	BN	3 (6.4%)	0 (0%)	-0.1 (-0.2%)	-0.1 (-0.1%)
	D	3.5 (7.4%)	0.1 (0.2%)	0.2 (0.3%)	0 (0%)
	C	3.8 (8.1%)	0 (0.1%)	0 (0%)	0.1 (0.2%)
	AVG	3.2 (6.7%)	0 (0.1%)	0.1 (0.2%)	0 (0%)
FEB	W	2.6 (5.3%)	0 (-0.1%)	0.3 (0.5%)	0.1 (0.2%)
	AN	2.6 (5.4%)	0.1 (0.1%)	0.1 (0.3%)	-0.1 (-0.2%)
	BN	3.2 (6.5%)	0.2 (0.3%)	-0.2 (-0.3%)	-0.1 (-0.2%)
	D	3 (6.2%)	0.1 (0.2%)	0.1 (0.3%)	0 (0%)
	C	3.5 (7.1%)	0 (0%)	0 (0%)	0.3 (0.5%)
	AVG	2.9 (6%)	0 (0.1%)	0.1 (0.2%)	0 (0.1%)
MAR	W	2.6 (5.3%)	0.1 (0.2%)	0.2 (0.4%)	0 (0.1%)
	AN	2.3 (4.7%)	0.1 (0.1%)	0 (0%)	0 (0.1%)
	BN	3.6 (7.2%)	0.3 (0.6%)	-0.2 (-0.3%)	-0.2 (-0.4%)
	D	2.5 (4.9%)	0.2 (0.3%)	0 (0.1%)	0.1 (0.1%)
	C	3 (6%)	-0.1 (-0.1%)	-0.1 (-0.2%)	0.2 (0.3%)
	AVG	2.8 (5.6%)	0.1 (0.2%)	0 (0%)	0 (0%)
APR	W	1.9 (3.7%)	0 (0.1%)	0.1 (0.3%)	-0.2 (-0.4%)
	AN	1.8 (3.4%)	0 (0.1%)	0.1 (0.1%)	-0.7 (-1.3%)
	BN	1.8 (3.4%)	0.1 (0.1%)	0 (0%)	-0.6 (-1%)
	D	1.7 (3.3%)	-0.2 (-0.4%)	0.1 (0.1%)	0.1 (0.2%)
	C	2.5 (4.8%)	-0.1 (-0.1%)	0.1 (0.2%)	0.4 (0.8%)
	AVG	1.9 (3.7%)	0 (-0.1%)	0.1 (0.2%)	-0.2 (-0.3%)
MAY	W	0.6 (1.1%)	-0.1 (-0.2%)	0 (0%)	-0.4 (-0.6%)
	AN	0.2 (0.4%)	-0.3 (-0.5%)	0 (0%)	-0.5 (-1%)
	BN	0 (0%)	-0.3 (-0.6%)	0.1 (0.1%)	0 (-0.1%)
	D	0.2 (0.4%)	0 (-0.1%)	0 (0%)	0 (-0.1%)
	C	0.7 (1.3%)	-0.1 (-0.2%)	0.2 (0.3%)	0.2 (0.3%)
	AVG	0.4 (0.7%)	-0.2 (-0.3%)	0.1 (0.1%)	-0.2 (-0.3%)
JUN	W	0.1 (0.2%)	-0.3 (-0.6%)	0.1 (0.1%)	0.6 (1%)
	AN	-0.2 (-0.3%)	-0.5 (-0.9%)	0 (0%)	0.7 (1.2%)
	BN	-0.3 (-0.5%)	-0.6 (-1%)	0 (-0.1%)	0.2 (0.4%)
	D	0.4 (0.8%)	-0.1 (-0.1%)	0 (0%)	0.1 (0.1%)
	C	1.1 (1.9%)	-0.1 (-0.2%)	0 (0%)	-0.4 (-0.6%)
	AVG	0.2 (0.4%)	-0.3 (-0.5%)	0 (0%)	0.3 (0.5%)
JUL	W	0.2 (0.4%)	0.1 (0.2%)	0 (0.1%)	0.3 (0.4%)
	AN	0.3 (0.5%)	0 (0%)	0 (0%)	0.5 (0.9%)
	BN	0.6 (1%)	0.1 (0.2%)	0 (0%)	0.3 (0.5%)
	D	1.1 (1.8%)	0.6 (0.9%)	-0.1 (-0.2%)	0.3 (0.4%)
	C	2.4 (4%)	1 (1.6%)	-0.1 (-0.2%)	-0.4 (-0.6%)
	AVG	0.8 (1.4%)	0.3 (0.6%)	0 (0%)	0.2 (0.3%)

Alternative 4: Feather River at Fish Barrier Dam					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	0.1 (0.2%)	0.4 (0.7%)	0 (0%)	0.8 (1.4%)
	AN	0.6 (0.9%)	0.4 (0.6%)	0 (0.1%)	1.1 (1.9%)
	BN	1 (1.6%)	0.4 (0.7%)	-0.2 (-0.4%)	1.5 (2.5%)
	D	1.5 (2.6%)	-0.3 (-0.5%)	-0.3 (-0.6%)	0.1 (0.1%)
	C	1.5 (2.4%)	-0.9 (-1.4%)	0.2 (0.3%)	-1.1 (-1.8%)
	AVG	0.9 (1.4%)	0.1 (0.1%)	-0.1 (-0.1%)	0.5 (0.9%)
SEP	W	-0.2 (-0.4%)	0.4 (0.7%)	1.6 (2.8%)	1.4 (2.5%)
	AN	-0.1 (-0.2%)	0.4 (0.7%)	1.3 (2.3%)	2.4 (4.4%)
	BN	2.2 (3.9%)	0.7 (1.2%)	-0.1 (-0.2%)	3 (5.2%)
	D	3.4 (6.1%)	-1.5 (-2.5%)	-1.1 (-1.9%)	-1.3 (-2.2%)
	C	4.6 (8%)	-0.8 (-1.2%)	-1.1 (-1.7%)	-3.2 (-5.2%)
	AVG	1.8 (3.1%)	-0.2 (-0.3%)	0.3 (0.4%)	0.5 (0.9%)
OCT	W	3.9 (7.2%)	-0.7 (-1.2%)	-1.7 (-2.9%)	0.9 (1.6%)
	AN	2.9 (5.3%)	-0.5 (-0.8%)	-0.6 (-1.1%)	2.5 (4.4%)
	BN	3.9 (7.3%)	-0.4 (-0.6%)	-0.9 (-1.5%)	1.1 (1.9%)
	D	5.9 (11%)	0.2 (0.3%)	-2.3 (-3.9%)	-0.5 (-0.8%)
	C	3.9 (7.2%)	0.1 (0.2%)	-1 (-1.8%)	-2.9 (-5%)
	AVG	4.2 (7.8%)	-0.3 (-0.5%)	-1.4 (-2.5%)	0.3 (0.5%)
NOV	W	5.7 (10.9%)	-0.2 (-0.3%)	-2 (-3.5%)	-0.7 (-1.1%)
	AN	4.3 (8.1%)	-0.6 (-1.1%)	-1 (-1.7%)	1.1 (1.9%)
	BN	5.3 (10.1%)	-0.1 (-0.2%)	-1.6 (-2.8%)	-0.7 (-1.2%)
	D	6.1 (11.5%)	-0.2 (-0.4%)	-1.2 (-2.1%)	-0.7 (-1.1%)
	C	5.5 (10.5%)	0.3 (0.5%)	-0.6 (-1%)	-2.5 (-4.3%)
	AVG	5.5 (10.5%)	-0.2 (-0.3%)	-1.4 (-2.4%)	-0.7 (-1.2%)
DEC	W	4.3 (8.9%)	-0.1 (-0.2%)	-0.2 (-0.5%)	0.2 (0.4%)
	AN	5.3 (10.8%)	-0.3 (-0.6%)	-0.6 (-1.2%)	-0.2 (-0.4%)
	BN	5.4 (11.2%)	-0.1 (-0.2%)	-0.4 (-0.7%)	-0.3 (-0.5%)
	D	5.1 (10.4%)	0 (0%)	-0.6 (-1.1%)	0.1 (0.2%)
	C	4.9 (10%)	0.2 (0.3%)	0.1 (0.2%)	-0.5 (-0.8%)
	AVG	4.9 (10%)	-0.1 (-0.2%)	-0.3 (-0.6%)	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.

1 **11D.4.10 Feather River Low-Flow Channel (above Thermalito**
2 **Afterbay)**

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

Alternative 4: Feather River Low-Flow Channel (above Thermalito Afterbay)						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	47	50	50	50	50
	AN	47	50	50	50	50
	BN	47	50	50	50	50
	D	47	50	50	50	50
	C	47	51	51	51	51
	AVG	47	50	50	50	50
FEB	W	49	51	52	51	51
	AN	49	51	52	51	51
	BN	49	52	52	52	52
	D	49	52	52	52	52
	C	50	53	53	53	53
	AVG	49	52	52	52	52
MAR	W	50	53	53	53	53
	AN	51	53	53	53	53
	BN	51	54	54	55	54
	D	52	55	55	55	55
	C	53	56	55	56	56
	AVG	51	54	54	54	54
APR	W	53	55	56	55	55
	AN	55	57	57	57	56
	BN	55	57	57	57	57
	D	55	57	57	57	57
	C	55	57	57	57	58
	AVG	55	57	57	57	56
MAY	W	59	61	61	61	61
	AN	60	62	62	62	61
	BN	60	61	61	61	61
	D	60	61	61	61	61
	C	60	62	62	62	62
	AVG	60	61	61	61	61
JUN	W	63	65	64	64	65
	AN	64	66	65	65	66
	BN	64	65	65	65	65
	D	64	66	66	66	66
	C	63	65	65	65	65
	AVG	64	65	65	65	65

Alternative 4: Feather River Low-Flow Channel (above Thermalito Afterbay)						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JUL	W	68	69	69	69	69
	AN	67	69	69	69	69
	BN	67	69	69	69	69
	D	67	69	69	69	69
	C	67	70	70	71	70
	AVG	67	69	69	69	69
AUG	W	66	68	68	68	69
	AN	65	67	67	67	68
	BN	66	68	68	68	69
	D	65	68	68	68	68
	C	67	70	69	69	68
	AVG	66	68	68	68	68
SEP	W	60	61	62	61	62
	AN	60	61	62	61	63
	BN	60	62	63	63	65
	D	60	65	63	64	63
	C	61	66	65	66	64
	AVG	60	63	63	63	63
OCT	W	55	60	58	59	60
	AN	57	60	59	60	62
	BN	56	60	59	60	61
	D	56	61	59	61	61
	C	56	60	59	60	58
	AVG	56	60	59	60	60
NOV	W	52	58	56	58	57
	AN	53	58	57	57	58
	BN	53	58	56	58	57
	D	53	58	57	58	58
	C	53	58	58	58	56
	AVG	53	58	57	58	57
DEC	W	48	53	52	52	53
	AN	49	54	53	53	53
	BN	48	53	53	53	53
	D	48	53	52	53	53
	C	48	53	53	53	52
	AVG	48	53	53	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River Low-Flow Channel (above Thermalito Afterbay), Year-Round**

Alternative 4: Feather River Low-Flow Channel (above Thermalito Afterbay)					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	2.8 (6%)	0 (0.1%)	0.1 (0.3%)	0 (0.1%)
	AN	3.1 (6.6%)	0 (0%)	0.1 (0.3%)	0 (-0.1%)
	BN	3 (6.3%)	0 (0%)	-0.1 (-0.2%)	0 (-0.1%)
	D	3.4 (7.2%)	0.1 (0.2%)	0.1 (0.3%)	0 (0%)
	C	3.7 (7.8%)	0 (0.1%)	0 (0%)	0.1 (0.1%)
	AVG	3.1 (6.7%)	0 (0.1%)	0.1 (0.1%)	0 (0%)
FEB	W	2.6 (5.4%)	0 (-0.1%)	0.2 (0.4%)	0.1 (0.1%)
	AN	2.6 (5.4%)	0 (0.1%)	0.1 (0.3%)	-0.1 (-0.1%)
	BN	3.1 (6.3%)	0.1 (0.2%)	-0.2 (-0.3%)	-0.1 (-0.2%)
	D	3 (6%)	0.1 (0.1%)	0.1 (0.2%)	0 (-0.1%)
	C	3.4 (6.7%)	0 (0%)	0 (0.1%)	0.3 (0.5%)
	AVG	2.9 (5.9%)	0 (0.1%)	0.1 (0.2%)	0 (0.1%)
MAR	W	2.5 (5%)	0.1 (0.1%)	0.2 (0.3%)	0 (0%)
	AN	2.3 (4.5%)	0 (0%)	0 (0.1%)	0.1 (0.1%)
	BN	3.3 (6.4%)	0.3 (0.5%)	-0.2 (-0.3%)	-0.2 (-0.4%)
	D	2.5 (4.8%)	0.1 (0.2%)	0 (0.1%)	0 (0.1%)
	C	2.9 (5.6%)	0 (-0.1%)	-0.1 (-0.1%)	0.1 (0.2%)
	AVG	2.7 (5.2%)	0.1 (0.2%)	0 (0.1%)	0 (0%)
APR	W	1.9 (3.6%)	0 (0%)	0.1 (0.2%)	-0.2 (-0.3%)
	AN	2 (3.6%)	0.1 (0.1%)	0 (0%)	-0.5 (-0.9%)
	BN	1.9 (3.5%)	0.1 (0.1%)	0 (0%)	-0.4 (-0.7%)
	D	2 (3.6%)	-0.2 (-0.3%)	0 (0.1%)	0.1 (0.1%)
	C	2.5 (4.6%)	0 (-0.1%)	0 (0.1%)	0.3 (0.5%)
	AVG	2 (3.7%)	0 (0%)	0.1 (0.1%)	-0.1 (-0.2%)
MAY	W	1.4 (2.3%)	-0.1 (-0.1%)	0 (0%)	-0.2 (-0.4%)
	AN	1.2 (1.9%)	-0.2 (-0.3%)	0 (0%)	-0.4 (-0.6%)
	BN	1 (1.6%)	-0.2 (-0.3%)	0.1 (0.1%)	0 (-0.1%)
	D	1.1 (1.9%)	0 (0%)	0 (0%)	0 (0%)
	C	1.5 (2.4%)	-0.1 (-0.2%)	0.1 (0.2%)	0.1 (0.2%)
	AVG	1.2 (2%)	-0.1 (-0.2%)	0 (0.1%)	-0.1 (-0.2%)
JUN	W	1.4 (2.2%)	-0.2 (-0.3%)	0 (0.1%)	0.4 (0.6%)
	AN	1.4 (2.2%)	-0.3 (-0.5%)	0 (0%)	0.4 (0.6%)
	BN	1.3 (2%)	-0.3 (-0.5%)	0 (0%)	0.1 (0.2%)
	D	1.8 (2.8%)	0 (-0.1%)	0 (0%)	0.1 (0.1%)
	C	2.1 (3.3%)	-0.1 (-0.1%)	0 (0%)	-0.2 (-0.3%)
	AVG	1.6 (2.5%)	-0.2 (-0.3%)	0 (0%)	0.2 (0.3%)
JUL	W	1.7 (2.5%)	0.1 (0.1%)	0 (0%)	0.2 (0.2%)
	AN	1.8 (2.7%)	0 (0.1%)	0 (0%)	0.3 (0.5%)
	BN	1.9 (2.8%)	0.1 (0.2%)	0 (0%)	0.2 (0.3%)
	D	2.3 (3.4%)	0.3 (0.5%)	-0.1 (-0.1%)	0.2 (0.2%)
	C	3.3 (4.8%)	0.6 (0.9%)	-0.1 (-0.1%)	-0.2 (-0.3%)
	AVG	2.1 (3.1%)	0.2 (0.3%)	0 (0%)	0.1 (0.2%)

Alternative 4: Feather River Low-Flow Channel (above Thermalito Afterbay)					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	1.7 (2.6%)	0.2 (0.4%)	0 (0%)	0.5 (0.8%)
	AN	1.9 (3%)	0.2 (0.4%)	0 (0%)	0.7 (1.1%)
	BN	2.3 (3.5%)	0.3 (0.4%)	-0.1 (-0.2%)	1 (1.5%)
	D	2.6 (4%)	-0.2 (-0.3%)	-0.2 (-0.3%)	0.1 (0.1%)
	C	2.6 (3.9%)	-0.6 (-0.8%)	0.1 (0.1%)	-0.8 (-1.1%)
	AVG	2.2 (3.3%)	0 (0%)	-0.1 (-0.1%)	0.3 (0.5%)
SEP	W	1.1 (1.8%)	0.3 (0.5%)	1.1 (1.9%)	1 (1.7%)
	AN	1.1 (1.8%)	0.3 (0.4%)	0.9 (1.5%)	1.7 (2.8%)
	BN	2.8 (4.6%)	0.5 (0.8%)	-0.1 (-0.1%)	2.2 (3.5%)
	D	3.7 (6.2%)	-1.1 (-1.7%)	-0.8 (-1.3%)	-1 (-1.5%)
	C	4.5 (7.4%)	-0.5 (-0.8%)	-0.8 (-1.2%)	-2.4 (-3.6%)
	AVG	2.5 (4.1%)	-0.1 (-0.2%)	0.2 (0.3%)	0.4 (0.6%)
OCT	W	3.8 (6.8%)	-0.6 (-0.9%)	-1.3 (-2.2%)	0.7 (1.2%)
	AN	3 (5.4%)	-0.3 (-0.6%)	-0.5 (-0.9%)	2 (3.4%)
	BN	3.9 (7%)	-0.3 (-0.4%)	-0.7 (-1.1%)	0.9 (1.4%)
	D	5.4 (9.7%)	0.2 (0.3%)	-1.8 (-3%)	-0.4 (-0.6%)
	C	3.9 (6.9%)	0.1 (0.2%)	-0.8 (-1.4%)	-2.3 (-3.9%)
	AVG	4.1 (7.3%)	-0.2 (-0.4%)	-1.1 (-1.9%)	0.2 (0.4%)
NOV	W	5.3 (10.1%)	-0.1 (-0.2%)	-1.7 (-2.9%)	-0.6 (-1%)
	AN	4.1 (7.7%)	-0.5 (-0.9%)	-0.8 (-1.4%)	0.9 (1.6%)
	BN	4.9 (9.3%)	-0.1 (-0.2%)	-1.3 (-2.3%)	-0.6 (-1%)
	D	5.5 (10.6%)	-0.2 (-0.4%)	-1 (-1.7%)	-0.6 (-0.9%)
	C	5.1 (9.7%)	0.3 (0.5%)	-0.5 (-0.8%)	-2.1 (-3.6%)
	AVG	5.1 (9.7%)	-0.1 (-0.2%)	-1.2 (-2%)	-0.6 (-1%)
DEC	W	4.1 (8.6%)	-0.1 (-0.2%)	-0.2 (-0.4%)	0.2 (0.4%)
	AN	4.9 (10%)	-0.3 (-0.5%)	-0.5 (-1%)	-0.2 (-0.3%)
	BN	5 (10.3%)	-0.1 (-0.2%)	-0.3 (-0.6%)	-0.2 (-0.4%)
	D	4.7 (9.8%)	0 (0%)	-0.5 (-0.9%)	0.1 (0.2%)
	C	4.6 (9.5%)	0.1 (0.3%)	0.1 (0.2%)	-0.4 (-0.7%)
	AVG	4.6 (9.5%)	-0.1 (-0.1%)	-0.3 (-0.5%)	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.

1 **11D.4.11 Feather River High-Flow Channel (below Thermalito**
2 **Afterbay)**

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

Alternative 4: Feather River High-Flow Channel (below Thermalito Afterbay)						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	47	50	50	50	50
	AN	47	50	50	49	49
	BN	46	49	49	49	49
	D	46	49	49	49	49
	C	46	50	50	50	50
	AVG	47	49	50	49	49
FEB	W	49	52	52	51	52
	AN	49	52	52	52	52
	BN	49	52	52	52	52
	D	50	53	53	53	53
	C	51	54	54	54	54
	AVG	50	52	52	52	52
MAR	W	51	54	54	54	54
	AN	52	54	54	54	54
	BN	53	56	56	56	56
	D	54	57	57	57	57
	C	54	57	57	57	57
	AVG	53	55	55	55	55
APR	W	55	57	57	57	56
	AN	57	59	60	59	58
	BN	58	59	59	59	58
	D	57	60	60	60	60
	C	57	60	60	60	60
	AVG	57	59	59	59	58
MAY	W	61	63	63	63	62
	AN	63	64	64	64	63
	BN	63	65	65	64	64
	D	63	65	65	65	65
	C	63	66	65	65	66
	AVG	62	64	64	64	64
JUN	W	66	68	67	67	68
	AN	67	70	68	68	70
	BN	67	70	67	67	68
	D	68	71	70	70	71
	C	68	71	71	70	71
	AVG	67	70	68	68	69

Alternative 4: Feather River High-Flow Channel (below Thermalito Afterbay)						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JUL	W	70	70	71	71	72
	AN	68	69	70	69	72
	BN	68	70	71	71	72
	D	68	70	72	73	73
	C	70	74	76	76	75
	AVG	69	71	72	72	73
AUG	W	70	70	72	72	72
	AN	67	69	70	70	71
	BN	68	70	71	72	73
	D	67	71	72	72	72
	C	70	74	74	74	74
	AVG	69	71	72	72	73
SEP	W	64	63	66	64	65
	AN	64	64	65	65	66
	BN	65	68	67	67	68
	D	64	67	66	66	66
	C	64	69	69	69	69
	AVG	64	66	66	66	67
OCT	W	58	62	61	62	63
	AN	60	63	62	63	64
	BN	59	63	63	63	63
	D	58	63	62	63	63
	C	59	63	62	63	62
	AVG	59	63	62	63	63
NOV	W	53	57	56	57	57
	AN	54	58	57	58	58
	BN	53	57	57	57	57
	D	53	57	57	57	57
	C	53	57	57	58	57
	AVG	53	57	57	57	57
DEC	W	48	51	51	51	51
	AN	48	52	52	52	52
	BN	47	51	51	51	51
	D	47	51	50	51	51
	C	47	50	51	51	50
	AVG	47	51	51	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
 2 **Water Temperatures in the Feather River High-Flow Channel (below Thermalito Afterbay), Year-**
 3 **Round**

Alternative 4: Feather River High-Flow Channel (below Thermalito Afterbay)					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	2.7 (5.7%)	0 (0%)	0.2 (0.4%)	0.1 (0.1%)
	AN	2.9 (6.2%)	0 (-0.1%)	0.1 (0.3%)	-0.1 (-0.1%)
	BN	2.8 (6%)	0.1 (0.1%)	0 (-0.1%)	0 (0%)
	D	3 (6.6%)	0.1 (0.3%)	0.1 (0.2%)	0 (-0.1%)
	C	3.4 (7.2%)	0.1 (0.2%)	0 (0%)	-0.1 (-0.1%)
	AVG	2.9 (6.3%)	0.1 (0.1%)	0.1 (0.2%)	0 (0%)
FEB	W	2.5 (5.1%)	-0.2 (-0.3%)	0.2 (0.4%)	0.2 (0.3%)
	AN	2.9 (5.9%)	-0.2 (-0.3%)	0 (0.1%)	-0.1 (-0.2%)
	BN	3 (6.1%)	0.1 (0.1%)	-0.1 (-0.2%)	-0.2 (-0.3%)
	D	2.8 (5.6%)	0 (0.1%)	0.1 (0.2%)	0 (-0.1%)
	C	3.1 (6.1%)	0 (0%)	0 (0%)	0.2 (0.3%)
	AVG	2.8 (5.7%)	-0.1 (-0.1%)	0.1 (0.1%)	0 (0%)
MAR	W	2.4 (4.8%)	0.1 (0.3%)	0.1 (0.1%)	-0.1 (-0.1%)
	AN	1.6 (3.1%)	-0.1 (-0.1%)	-0.2 (-0.5%)	0 (0%)
	BN	3.3 (6.1%)	0.2 (0.4%)	-0.2 (-0.3%)	-0.2 (-0.4%)
	D	2.6 (4.7%)	0.1 (0.1%)	0.1 (0.1%)	0.1 (0.2%)
	C	3.1 (5.8%)	0.1 (0.2%)	-0.1 (-0.2%)	0 (0%)
	AVG	2.6 (4.9%)	0.1 (0.2%)	0 (-0.1%)	0 (-0.1%)
APR	W	2 (3.7%)	0 (0%)	0.1 (0.1%)	-1 (-1.7%)
	AN	2.3 (4.1%)	0.1 (0.1%)	0.1 (0.2%)	-1.5 (-2.4%)
	BN	1.6 (2.7%)	-0.2 (-0.3%)	0.1 (0.2%)	-1.2 (-2%)
	D	2.6 (4.5%)	0.2 (0.3%)	0.1 (0.1%)	0 (0.1%)
	C	2.8 (4.9%)	0.3 (0.5%)	0.1 (0.2%)	0.1 (0.2%)
	AVG	2.2 (3.9%)	0.1 (0.1%)	0.1 (0.2%)	-0.7 (-1.2%)
MAY	W	2.5 (4.2%)	-0.2 (-0.3%)	0 (0.1%)	-0.7 (-1.1%)
	AN	1.5 (2.3%)	-0.2 (-0.2%)	0 (0%)	-1 (-1.6%)
	BN	1.8 (2.9%)	-0.3 (-0.5%)	0.1 (0.2%)	-0.5 (-0.8%)
	D	2.1 (3.4%)	-0.2 (-0.3%)	0 (-0.1%)	-0.2 (-0.2%)
	C	2.1 (3.4%)	-0.1 (-0.2%)	0.1 (0.1%)	0.1 (0.2%)
	AVG	2.1 (3.4%)	-0.2 (-0.3%)	0 (0.1%)	-0.5 (-0.7%)
JUN	W	1.1 (1.6%)	-1.6 (-2.4%)	0.3 (0.4%)	1.4 (2.1%)
	AN	0.2 (0.2%)	-2.4 (-3.4%)	0 (0.1%)	2.1 (3.1%)
	BN	0 (0.1%)	-2.3 (-3.3%)	0 (0%)	0.8 (1.2%)
	D	2.4 (3.5%)	-0.5 (-0.7%)	-0.1 (-0.1%)	0.2 (0.2%)
	C	2.8 (4.2%)	-0.2 (-0.2%)	0 (0.1%)	0.1 (0.2%)
	AVG	1.3 (2%)	-1.4 (-2%)	0.1 (0.1%)	0.9 (1.4%)
JUL	W	1.1 (1.5%)	0.6 (0.9%)	0.2 (0.2%)	1.2 (1.8%)
	AN	1.5 (2.2%)	0.1 (0.1%)	0.1 (0.2%)	2.3 (3.3%)
	BN	2.8 (4.2%)	0.8 (1.2%)	0.1 (0.2%)	0.8 (1.1%)
	D	4.6 (6.8%)	2.3 (3.3%)	-0.3 (-0.5%)	0.3 (0.5%)
	C	6.7 (9.6%)	2.4 (3.3%)	-0.4 (-0.5%)	-0.9 (-1.2%)
	AVG	3 (4.4%)	1.2 (1.7%)	0 (-0.1%)	0.8 (1.1%)

Alternative 4: Feather River High-Flow Channel (below Thermalito Afterbay)					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	1.8 (2.5%)	1.1 (1.6%)	0 (0%)	1 (1.3%)
	AN	3.1 (4.7%)	1.4 (2%)	0 (0.1%)	1 (1.5%)
	BN	3.4 (5.1%)	1.3 (1.8%)	-0.3 (-0.3%)	1.1 (1.5%)
	D	5.1 (7.6%)	1.2 (1.7%)	-0.3 (-0.4%)	-0.1 (-0.2%)
	C	4 (5.8%)	-0.1 (-0.1%)	-0.2 (-0.2%)	0.4 (0.6%)
	AVG	3.3 (4.8%)	1 (1.4%)	-0.1 (-0.2%)	0.7 (0.9%)
SEP	W	0.3 (0.5%)	1.1 (1.7%)	1.7 (2.6%)	1.2 (1.9%)
	AN	1.3 (2.1%)	1.8 (2.8%)	-0.2 (-0.3%)	1.1 (1.7%)
	BN	2 (3%)	-0.9 (-1.4%)	-0.1 (-0.1%)	0.9 (1.4%)
	D	2.4 (3.7%)	-0.1 (-0.2%)	0 (0.1%)	0 (0%)
	C	4.8 (7.4%)	-0.2 (-0.2%)	-0.2 (-0.3%)	-0.3 (-0.4%)
	AVG	1.9 (2.9%)	0.4 (0.6%)	0.5 (0.7%)	0.7 (1%)
OCT	W	3.7 (6.4%)	-0.2 (-0.4%)	-0.8 (-1.2%)	0.4 (0.7%)
	AN	3.1 (5.3%)	-0.3 (-0.4%)	-0.3 (-0.6%)	1.1 (1.8%)
	BN	3.5 (5.9%)	-0.1 (-0.2%)	-0.2 (-0.4%)	0.6 (1%)
	D	4.4 (7.6%)	0.2 (0.3%)	-0.8 (-1.3%)	-0.3 (-0.4%)
	C	4 (6.8%)	0.2 (0.3%)	-0.3 (-0.5%)	-1.1 (-1.7%)
	AVG	3.8 (6.5%)	-0.1 (-0.1%)	-0.6 (-0.9%)	0.2 (0.3%)
NOV	W	4.2 (8%)	-0.1 (-0.1%)	-0.8 (-1.5%)	-0.3 (-0.5%)
	AN	3.8 (7.1%)	-0.2 (-0.4%)	-0.4 (-0.7%)	0.4 (0.7%)
	BN	4 (7.6%)	-0.1 (-0.2%)	-0.5 (-0.9%)	-0.2 (-0.3%)
	D	4.5 (8.5%)	-0.2 (-0.3%)	-0.6 (-1%)	-0.3 (-0.6%)
	C	4.2 (7.9%)	0.2 (0.3%)	-0.2 (-0.4%)	-1.1 (-1.8%)
	AVG	4.2 (7.9%)	-0.1 (-0.1%)	-0.6 (-1%)	-0.3 (-0.5%)
DEC	W	3.4 (7.2%)	0 (-0.1%)	0 (0%)	0.2 (0.4%)
	AN	4.2 (8.9%)	-0.3 (-0.5%)	-0.3 (-0.5%)	-0.3 (-0.5%)
	BN	4.1 (8.7%)	-0.1 (-0.2%)	0.1 (0.2%)	-0.3 (-0.6%)
	D	3.8 (8.2%)	-0.2 (-0.5%)	-0.3 (-0.5%)	0.2 (0.4%)
	C	4 (8.6%)	0.2 (0.3%)	0.1 (0.3%)	-0.3 (-0.7%)
	AVG	3.8 (8.1%)	-0.1 (-0.2%)	0 (-0.1%)	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.

1 **11D.4.12 Feather River at Gridley Dam**

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

Alternative 4: Feather River at Gridley Dam						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	47	50	50	50	50
	AN	47	49	50	49	49
	BN	46	49	49	49	49
	D	46	48	49	49	48
	C	46	49	49	49	49
	AVG	46	49	49	49	49
FEB	W	49	52	52	52	52
	AN	49	52	52	52	52
	BN	50	53	52	53	52
	D	50	53	53	53	53
	C	51	54	54	54	54
	AVG	50	53	53	52	53
MAR	W	51	54	54	54	54
	AN	53	54	54	54	54
	BN	54	57	57	57	57
	D	55	57	57	57	57
	C	54	57	57	57	57
	AVG	53	56	56	56	56
APR	W	56	58	58	58	57
	AN	58	60	60	60	59
	BN	59	61	60	60	59
	D	59	61	61	61	61
	C	58	61	61	61	61
	AVG	58	60	60	60	59
MAY	W	61	64	64	64	63
	AN	64	66	65	65	64
	BN	64	66	66	66	65
	D	64	66	66	66	66
	C	64	67	67	67	67
	AVG	63	66	65	65	65
JUN	W	67	69	68	68	69
	AN	69	71	69	69	71
	BN	69	71	69	69	69
	D	69	72	72	72	72
	C	69	72	72	72	72
	AVG	68	71	69	69	70
JUL	W	70	71	72	72	73
	AN	69	70	70	70	73
	BN	69	71	72	72	73
	D	69	71	73	74	74
	C	71	75	77	77	77
	AVG	70	72	73	73	74

Alternative 4: Feather River at Gridley Dam						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
AUG	W	71	71	73	73	74
	AN	68	70	71	71	73
	BN	69	71	72	73	74
	D	68	72	73	73	73
	C	71	75	75	75	75
	AVG	69	72	73	73	74
SEP	W	65	64	68	65	66
	AN	65	64	67	66	67
	BN	66	69	68	68	69
	D	65	68	68	68	68
	C	66	70	70	70	70
	AVG	65	67	68	67	68
OCT	W	59	63	62	63	63
	AN	60	63	63	63	64
	BN	60	63	63	63	64
	D	59	63	62	63	63
	C	59	63	63	63	62
	AVG	59	63	62	63	63
NOV	W	53	57	56	57	57
	AN	54	58	57	58	58
	BN	53	57	57	57	57
	D	53	57	57	57	57
	C	54	57	57	58	57
	AVG	53	57	57	57	57
DEC	W	48	51	51	51	51
	AN	47	52	51	52	51
	BN	47	51	51	51	50
	D	47	51	50	50	51
	C	46	50	50	50	50
	AVG	47	51	51	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Gridley Dam, Year-Round**

Alternative 4: Feather River at Gridley Dam					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	2.7 (5.7%)	0 (0.1%)	0.2 (0.3%)	0.1 (0.2%)
	AN	2.9 (6.2%)	-0.1 (-0.1%)	0.2 (0.3%)	0 (-0.1%)
	BN	2.8 (6%)	0 (0.1%)	0 (-0.1%)	0 (0%)
	D	3 (6.5%)	0.1 (0.3%)	0.1 (0.2%)	-0.1 (-0.1%)
	C	3.3 (7.2%)	0.1 (0.2%)	0 (0%)	-0.1 (-0.1%)
	AVG	2.9 (6.2%)	0.1 (0.1%)	0.1 (0.2%)	0 (0%)
FEB	W	2.5 (5.1%)	-0.2 (-0.3%)	0.2 (0.4%)	0.2 (0.3%)
	AN	2.9 (5.9%)	-0.2 (-0.4%)	0.1 (0.1%)	-0.1 (-0.2%)
	BN	3 (6.1%)	0.1 (0.1%)	-0.1 (-0.3%)	-0.2 (-0.3%)
	D	2.8 (5.6%)	0 (0.1%)	0.1 (0.2%)	0 (0%)
	C	3.1 (6%)	0 (-0.1%)	0 (0.1%)	0.2 (0.3%)
	AVG	2.8 (5.6%)	-0.1 (-0.1%)	0.1 (0.1%)	0 (0.1%)
MAR	W	2.4 (4.7%)	0.1 (0.3%)	0 (0.1%)	-0.1 (-0.1%)
	AN	1.7 (3.1%)	-0.1 (-0.1%)	-0.2 (-0.4%)	0 (0%)
	BN	3.3 (6.1%)	0.3 (0.4%)	-0.2 (-0.3%)	-0.2 (-0.4%)
	D	2.5 (4.6%)	0 (0%)	0 (0.1%)	0.1 (0.2%)
	C	3 (5.5%)	0.1 (0.1%)	-0.1 (-0.1%)	0 (0%)
	AVG	2.6 (4.8%)	0.1 (0.2%)	0 (-0.1%)	0 (-0.1%)
APR	W	2 (3.6%)	0 (0%)	0.1 (0.1%)	-1.1 (-1.8%)
	AN	2.3 (4%)	0.1 (0.1%)	0.1 (0.1%)	-1.8 (-2.9%)
	BN	1.6 (2.8%)	-0.2 (-0.4%)	0.1 (0.1%)	-1.5 (-2.4%)
	D	2.3 (4%)	0 (0%)	0 (0.1%)	0 (0.1%)
	C	2.6 (4.5%)	0.2 (0.3%)	0.1 (0.1%)	0.1 (0.2%)
	AVG	2.2 (3.7%)	0 (0%)	0.1 (0.1%)	-0.8 (-1.3%)
MAY	W	2.8 (4.5%)	-0.2 (-0.4%)	0 (0.1%)	-0.9 (-1.4%)
	AN	1.5 (2.4%)	-0.3 (-0.5%)	0 (0%)	-1.3 (-1.9%)
	BN	1.6 (2.4%)	-0.5 (-0.7%)	0.2 (0.3%)	-0.5 (-0.7%)
	D	2 (3.1%)	-0.2 (-0.3%)	-0.1 (-0.1%)	-0.2 (-0.2%)
	C	2.2 (3.4%)	-0.1 (-0.1%)	0.1 (0.1%)	0.1 (0.1%)
	AVG	2.1 (3.4%)	-0.3 (-0.4%)	0 (0%)	-0.6 (-0.9%)
JUN	W	1.1 (1.6%)	-1.7 (-2.4%)	0.3 (0.4%)	1.6 (2.3%)
	AN	0 (0%)	-2.5 (-3.5%)	0 (0.1%)	2.3 (3.3%)
	BN	-0.2 (-0.2%)	-2.4 (-3.4%)	0 (0%)	0.8 (1.2%)
	D	2.4 (3.5%)	-0.5 (-0.7%)	-0.1 (-0.1%)	0.2 (0.3%)
	C	3 (4.3%)	-0.1 (-0.1%)	0.1 (0.1%)	0.1 (0.1%)
	AVG	1.3 (1.9%)	-1.4 (-2%)	0.1 (0.1%)	1 (1.5%)
JUL	W	1.2 (1.7%)	0.6 (0.8%)	0.2 (0.2%)	1.3 (1.8%)
	AN	1.6 (2.4%)	0.1 (0.1%)	0.1 (0.2%)	2.4 (3.4%)
	BN	3 (4.3%)	0.8 (1.2%)	0.1 (0.2%)	0.9 (1.2%)
	D	4.9 (7.1%)	2.4 (3.4%)	-0.4 (-0.5%)	0.4 (0.6%)
	C	6.9 (9.8%)	2.5 (3.4%)	-0.4 (-0.5%)	-0.9 (-1.1%)
	AVG	3.2 (4.6%)	1.3 (1.8%)	0 (-0.1%)	0.9 (1.2%)

Alternative 4: Feather River at Gridley Dam					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	1.8 (2.5%)	1.1 (1.6%)	0 (0%)	1.3 (1.7%)
	AN	3.2 (4.7%)	1.4 (2%)	0 (0.1%)	1.4 (2%)
	BN	3.6 (5.3%)	1.3 (1.8%)	-0.3 (-0.3%)	1.2 (1.7%)
	D	5.4 (8%)	1.1 (1.6%)	-0.3 (-0.4%)	0 (0%)
	C	4.1 (5.8%)	-0.1 (-0.1%)	-0.1 (-0.1%)	0.2 (0.2%)
	AVG	3.4 (4.9%)	1 (1.4%)	-0.1 (-0.2%)	0.8 (1.1%)
SEP	W	-0.2 (-0.2%)	1.1 (1.7%)	2.9 (4.4%)	1.2 (1.8%)
	AN	1.1 (1.6%)	1.9 (2.9%)	0.8 (1.2%)	1.1 (1.6%)
	BN	2.5 (3.8%)	-0.3 (-0.5%)	0 (0%)	1 (1.4%)
	D	3.1 (4.7%)	-0.2 (-0.3%)	-0.1 (-0.1%)	-0.1 (-0.1%)
	C	4.5 (6.9%)	-0.2 (-0.3%)	-0.2 (-0.3%)	-0.5 (-0.6%)
	AVG	1.9 (2.9%)	0.5 (0.7%)	1 (1.5%)	0.6 (0.9%)
OCT	W	3.7 (6.3%)	-0.2 (-0.3%)	-0.7 (-1.2%)	0.4 (0.6%)
	AN	3 (5%)	-0.3 (-0.5%)	-0.3 (-0.5%)	1 (1.6%)
	BN	3.6 (6%)	-0.1 (-0.1%)	-0.2 (-0.4%)	0.6 (0.9%)
	D	4.3 (7.3%)	0.1 (0.2%)	-0.8 (-1.2%)	-0.2 (-0.3%)
	C	3.9 (6.5%)	0.1 (0.2%)	-0.3 (-0.5%)	-1 (-1.6%)
	AVG	3.7 (6.3%)	-0.1 (-0.1%)	-0.5 (-0.9%)	0.2 (0.2%)
NOV	W	4.1 (7.8%)	-0.1 (-0.1%)	-0.8 (-1.3%)	-0.2 (-0.4%)
	AN	3.7 (6.9%)	-0.2 (-0.3%)	-0.4 (-0.7%)	0.4 (0.6%)
	BN	3.9 (7.4%)	-0.1 (-0.2%)	-0.5 (-0.9%)	-0.2 (-0.3%)
	D	4.3 (8.2%)	-0.1 (-0.3%)	-0.5 (-0.9%)	-0.3 (-0.5%)
	C	4.1 (7.8%)	0.2 (0.3%)	-0.2 (-0.4%)	-1 (-1.7%)
	AVG	4.1 (7.7%)	-0.1 (-0.1%)	-0.5 (-0.9%)	-0.3 (-0.5%)
DEC	W	3.4 (7.1%)	0 (-0.1%)	0 (0.1%)	0.2 (0.4%)
	AN	4.1 (8.6%)	-0.3 (-0.5%)	-0.2 (-0.4%)	-0.3 (-0.5%)
	BN	4 (8.6%)	-0.1 (-0.2%)	0.1 (0.2%)	-0.3 (-0.5%)
	D	3.8 (8.1%)	-0.2 (-0.4%)	-0.3 (-0.6%)	0.2 (0.3%)
	C	4 (8.5%)	0.2 (0.4%)	0.1 (0.2%)	-0.4 (-0.7%)
	AVG	3.8 (8%)	-0.1 (-0.1%)	0 (-0.1%)	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.

1 **11D.4.13 Feather River at Honcut Creek**

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

Alternative 4: Feather River at Honcut Creek						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	47	50	50	50	50
	AN	46	49	50	49	49
	BN	46	49	49	49	49
	D	45	48	48	48	48
	C	46	49	49	49	49
	AVG	46	49	49	49	49
FEB	W	49	52	52	52	52
	AN	49	53	52	52	52
	BN	50	53	53	53	53
	D	50	53	53	53	53
	C	51	54	54	54	54
	AVG	50	53	53	53	53
MAR	W	52	54	54	54	54
	AN	53	55	54	55	55
	BN	54	57	57	57	57
	D	55	58	58	58	58
	C	55	58	58	58	58
	AVG	53	56	56	56	56
APR	W	56	58	58	58	57
	AN	59	61	61	61	59
	BN	60	62	61	61	60
	D	60	62	62	62	62
	C	59	62	62	62	62
	AVG	58	61	61	60	60
MAY	W	62	65	65	65	64
	AN	65	67	66	66	65
	BN	65	67	67	66	66
	D	65	67	67	67	67
	C	65	68	68	68	68
	AVG	64	67	66	66	66
JUN	W	67	70	69	68	70
	AN	69	72	69	69	72
	BN	69	72	69	69	70
	D	70	73	72	72	73
	C	69	73	73	72	72
	AVG	69	72	70	70	71
JUL	W	71	72	73	72	74
	AN	69	71	71	71	73
	BN	69	72	73	72	73
	D	69	72	74	74	75
	C	71	76	78	78	77
	AVG	70	72	73	73	74

Alternative 4: Feather River at Honcut Creek						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
AUG	W	72	72	73	73	75
	AN	69	71	72	72	74
	BN	69	72	73	73	74
	D	68	73	74	74	74
	C	72	76	76	76	76
	AVG	70	73	74	74	75
SEP	W	66	64	69	66	67
	AN	66	65	68	67	68
	BN	67	69	69	69	70
	D	66	70	69	69	69
	C	66	71	71	71	70
	AVG	66	68	69	68	69
OCT	W	59	63	62	63	63
	AN	60	64	63	63	64
	BN	60	64	63	64	64
	D	59	63	63	63	63
	C	60	64	63	64	63
	AVG	60	63	63	63	63
NOV	W	53	57	56	57	57
	AN	54	58	57	57	58
	BN	53	57	56	57	57
	D	53	57	56	57	57
	C	54	57	57	58	57
	AVG	53	57	57	57	57
DEC	W	47	51	51	51	51
	AN	47	52	51	51	51
	BN	46	51	51	50	50
	D	46	50	50	50	50
	C	46	50	50	50	50
	AVG	47	51	50	51	50

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Honcut Creek, Year-Round**

Alternative 4: Feather River at Honcut Creek					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	2.7 (5.7%)	0 (0%)	0.2 (0.3%)	0.1 (0.1%)
	AN	2.9 (6.2%)	0 (-0.1%)	0.1 (0.3%)	-0.1 (-0.1%)
	BN	2.8 (6%)	0 (0.1%)	0 (0%)	0 (0%)
	D	2.9 (6.4%)	0.1 (0.2%)	0.1 (0.2%)	0 (-0.1%)
	C	3.3 (7.2%)	0.1 (0.1%)	0 (-0.1%)	-0.1 (-0.2%)
	AVG	2.9 (6.2%)	0 (0.1%)	0.1 (0.2%)	0 (0%)
FEB	W	2.5 (5.1%)	-0.2 (-0.3%)	0.2 (0.4%)	0.1 (0.3%)
	AN	2.9 (5.8%)	-0.2 (-0.3%)	0 (0.1%)	-0.1 (-0.2%)
	BN	3 (6.1%)	0 (0.1%)	-0.1 (-0.2%)	-0.2 (-0.3%)
	D	2.8 (5.6%)	0 (0%)	0.1 (0.2%)	0 (0%)
	C	3 (6%)	0 (0%)	0 (0%)	0.1 (0.2%)
	AVG	2.8 (5.6%)	-0.1 (-0.1%)	0.1 (0.1%)	0 (0%)
MAR	W	2.4 (4.7%)	0.1 (0.3%)	0 (0.1%)	-0.1 (-0.1%)
	AN	1.6 (3.1%)	-0.1 (-0.2%)	-0.2 (-0.4%)	0 (0%)
	BN	3.3 (6%)	0.2 (0.4%)	-0.2 (-0.3%)	-0.2 (-0.4%)
	D	2.5 (4.5%)	0 (0%)	0 (0.1%)	0.1 (0.2%)
	C	2.9 (5.2%)	0.1 (0.1%)	0 (-0.1%)	0 (0%)
	AVG	2.5 (4.7%)	0.1 (0.1%)	0 (-0.1%)	0 (-0.1%)
APR	W	2 (3.7%)	0 (0%)	0.1 (0.1%)	-1.2 (-2.1%)
	AN	2.4 (4%)	0.1 (0.1%)	0 (0%)	-2 (-3.3%)
	BN	1.7 (2.8%)	-0.3 (-0.4%)	0 (0.1%)	-1.8 (-2.9%)
	D	2.2 (3.7%)	-0.1 (-0.2%)	0 (0%)	0 (0.1%)
	C	2.5 (4.2%)	0 (0.1%)	0 (0%)	0.2 (0.3%)
	AVG	2.1 (3.6%)	-0.1 (-0.1%)	0 (0.1%)	-0.9 (-1.5%)
MAY	W	2.9 (4.7%)	-0.2 (-0.4%)	0 (0%)	-1.1 (-1.7%)
	AN	1.6 (2.4%)	-0.5 (-0.8%)	0 (0%)	-1.4 (-2.1%)
	BN	1.4 (2.1%)	-0.6 (-0.9%)	0.2 (0.3%)	-0.5 (-0.7%)
	D	1.8 (2.8%)	-0.2 (-0.3%)	-0.1 (-0.1%)	-0.1 (-0.2%)
	C	2.3 (3.5%)	-0.1 (-0.1%)	0.1 (0.1%)	0.1 (0.1%)
	AVG	2.1 (3.3%)	-0.3 (-0.5%)	0 (0.1%)	-0.6 (-0.9%)
JUN	W	1.1 (1.7%)	-1.7 (-2.4%)	0.3 (0.5%)	1.7 (2.5%)
	AN	0 (0%)	-2.5 (-3.5%)	0 (0%)	2.4 (3.4%)
	BN	-0.2 (-0.3%)	-2.5 (-3.4%)	0 (0%)	0.8 (1.2%)
	D	2.4 (3.5%)	-0.5 (-0.7%)	-0.1 (-0.1%)	0.2 (0.3%)
	C	3.1 (4.5%)	-0.1 (-0.1%)	0.1 (0.1%)	0 (0%)
	AVG	1.3 (1.9%)	-1.4 (-2%)	0.1 (0.1%)	1.1 (1.5%)
JUL	W	1.4 (1.9%)	0.6 (0.8%)	0.2 (0.2%)	1.3 (1.8%)
	AN	1.8 (2.5%)	0.1 (0.2%)	0.1 (0.2%)	2.4 (3.4%)
	BN	3.2 (4.6%)	0.8 (1.2%)	0.1 (0.2%)	0.9 (1.3%)
	D	5.1 (7.3%)	2.5 (3.4%)	-0.4 (-0.5%)	0.4 (0.6%)
	C	7 (9.9%)	2.6 (3.4%)	-0.4 (-0.5%)	-0.9 (-1.1%)
	AVG	3.4 (4.8%)	1.3 (1.8%)	0 (-0.1%)	0.9 (1.2%)

Alternative 4: Feather River at Honcut Creek					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	1.9 (2.6%)	1.2 (1.6%)	0 (0%)	1.4 (1.9%)
	AN	3.3 (4.8%)	1.4 (2%)	0 (0.1%)	1.6 (2.2%)
	BN	3.7 (5.4%)	1.3 (1.8%)	-0.2 (-0.3%)	1.3 (1.8%)
	D	5.6 (8.2%)	1.1 (1.5%)	-0.4 (-0.5%)	0.1 (0.1%)
	C	4.1 (5.7%)	-0.2 (-0.2%)	0 (0%)	-0.1 (-0.2%)
	AVG	3.5 (5.1%)	1 (1.4%)	-0.1 (-0.2%)	0.9 (1.2%)
SEP	W	-0.5 (-0.7%)	1.1 (1.7%)	3.7 (5.7%)	1.1 (1.7%)
	AN	0.9 (1.4%)	1.9 (2.9%)	1.4 (2.1%)	1.1 (1.7%)
	BN	2.9 (4.4%)	0.1 (0.1%)	0 (0%)	1 (1.4%)
	D	3.5 (5.4%)	-0.3 (-0.4%)	-0.2 (-0.3%)	-0.2 (-0.3%)
	C	4.4 (6.6%)	-0.2 (-0.2%)	-0.2 (-0.3%)	-0.6 (-0.9%)
	AVG	1.9 (2.9%)	0.5 (0.8%)	1.3 (1.9%)	0.5 (0.8%)
OCT	W	3.7 (6.2%)	-0.2 (-0.3%)	-0.7 (-1.1%)	0.3 (0.6%)
	AN	2.9 (4.9%)	-0.3 (-0.5%)	-0.3 (-0.5%)	1 (1.5%)
	BN	3.6 (5.9%)	-0.1 (-0.1%)	-0.3 (-0.4%)	0.5 (0.8%)
	D	4.1 (7%)	0.1 (0.1%)	-0.7 (-1.1%)	-0.1 (-0.2%)
	C	3.8 (6.4%)	0.1 (0.1%)	-0.3 (-0.5%)	-1 (-1.6%)
	AVG	3.7 (6.2%)	-0.1 (-0.1%)	-0.5 (-0.8%)	0.1 (0.2%)
NOV	W	4 (7.7%)	0 (-0.1%)	-0.7 (-1.2%)	-0.2 (-0.4%)
	AN	3.7 (6.8%)	-0.2 (-0.4%)	-0.3 (-0.6%)	0.4 (0.6%)
	BN	3.9 (7.3%)	-0.1 (-0.1%)	-0.5 (-0.8%)	-0.2 (-0.3%)
	D	4.2 (8%)	-0.1 (-0.2%)	-0.5 (-0.9%)	-0.3 (-0.5%)
	C	4.1 (7.6%)	0.2 (0.3%)	-0.2 (-0.4%)	-0.9 (-1.6%)
	AVG	4 (7.5%)	-0.1 (-0.1%)	-0.5 (-0.9%)	-0.3 (-0.5%)
DEC	W	3.3 (7%)	0 (-0.1%)	0.1 (0.1%)	0.2 (0.4%)
	AN	4.1 (8.6%)	-0.3 (-0.5%)	-0.2 (-0.4%)	-0.3 (-0.5%)
	BN	3.9 (8.5%)	-0.1 (-0.2%)	0.1 (0.2%)	-0.2 (-0.5%)
	D	3.7 (8%)	-0.2 (-0.3%)	-0.3 (-0.6%)	0.1 (0.3%)
	C	3.8 (8.3%)	0.3 (0.6%)	0.1 (0.2%)	-0.4 (-0.7%)
	AVG	3.7 (7.9%)	-0.1 (-0.1%)	0 (-0.1%)	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.

1 **11D.4.14 Feather River at the Confluence with the Sacramento**
2 **River**

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

Alternative 4: Feather River at the Confluence with the Sacramento River						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	47	48	49	48	49
	AN	46	48	48	48	48
	BN	46	47	47	47	47
	D	45	47	47	47	47
	C	45	48	48	48	48
	AVG	46	48	48	48	48
FEB	W	50	52	52	52	52
	AN	50	52	52	52	52
	BN	50	51	51	51	51
	D	50	52	52	52	52
	C	51	53	53	53	53
	AVG	50	52	52	52	52
MAR	W	53	55	55	55	55
	AN	54	56	56	56	56
	BN	55	57	57	57	57
	D	55	57	57	57	57
	C	56	58	58	58	58
	AVG	55	56	56	56	56
APR	W	59	60	60	60	59
	AN	60	62	62	62	61
	BN	61	62	62	62	61
	D	62	64	64	64	64
	C	63	65	65	65	65
	AVG	61	63	62	62	62
MAY	W	65	68	67	67	67
	AN	66	69	69	69	68
	BN	67	69	69	69	68
	D	68	70	70	70	70
	C	68	71	71	71	71
	AVG	66	69	69	69	69
JUN	W	70	73	72	72	73
	AN	71	75	73	73	75
	BN	72	75	73	73	74
	D	73	77	76	76	77
	C	72	76	76	76	76
	AVG	71	75	74	74	75

Alternative 4: Feather River at the Confluence with the Sacramento River						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JUL	W	74	76	77	77	78
	AN	72	75	75	75	77
	BN	73	76	77	76	77
	D	73	76	78	78	78
	C	75	79	81	81	81
	AVG	73	76	77	77	78
AUG	W	73	76	77	77	78
	AN	71	74	75	75	76
	BN	72	75	76	76	76
	D	72	76	77	77	77
	C	75	79	79	79	79
	AVG	73	76	77	77	77
SEP	W	71	70	75	71	71
	AN	70	70	73	71	72
	BN	70	73	74	74	74
	D	70	74	74	74	74
	C	70	74	74	74	73
	AVG	70	72	74	73	73
OCT	W	61	64	63	64	64
	AN	62	64	64	64	65
	BN	61	64	64	64	65
	D	61	64	64	64	64
	C	62	65	65	65	65
	AVG	61	64	64	64	64
NOV	W	52	55	55	55	55
	AN	53	56	56	56	56
	BN	53	55	55	55	55
	D	52	55	55	55	55
	C	53	56	56	56	56
	AVG	53	55	55	55	55
DEC	W	47	49	49	49	49
	AN	47	50	49	50	49
	BN	46	49	49	48	48
	D	46	49	48	49	49
	C	45	47	48	48	48
	AVG	46	49	49	49	49

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

Alternative 4: Feather River at the Confluence with the Sacramento River					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	1.9 (4%)	0 (0%)	0.1 (0.3%)	0 (0.1%)
	AN	1.8 (4%)	0 (0%)	0.1 (0.1%)	0 (-0.1%)
	BN	1.8 (4%)	0 (0%)	0 (0%)	0 (0%)
	D	2.1 (4.7%)	0 (0.1%)	0.1 (0.3%)	0 (-0.1%)
	C	2.3 (5.1%)	0 (0.1%)	0 (0%)	-0.1 (-0.3%)
	AVG	2 (4.3%)	0 (0%)	0.1 (0.2%)	0 (0%)
FEB	W	1.9 (3.8%)	0 (0%)	0.1 (0.2%)	0.1 (0.1%)
	AN	1.9 (3.8%)	-0.1 (-0.1%)	0 (0.1%)	0 (0%)
	BN	1.7 (3.4%)	0 (0%)	0.1 (0.1%)	0 (0%)
	D	1.9 (3.8%)	0 (0%)	0 (0.1%)	0 (0%)
	C	2.2 (4.3%)	0 (0%)	0 (0%)	0 (0%)
	AVG	1.9 (3.8%)	0 (0%)	0 (0.1%)	0 (0.1%)
MAR	W	1.8 (3.3%)	0 (0.1%)	0 (0%)	0 (-0.1%)
	AN	1.3 (2.3%)	-0.1 (-0.1%)	0 (-0.1%)	0 (0%)
	BN	1.9 (3.4%)	0 (0.1%)	0 (-0.1%)	-0.1 (-0.1%)
	D	1.7 (3.1%)	0 (-0.1%)	0 (0%)	0.1 (0.1%)
	C	2.1 (3.7%)	0 (0.1%)	0 (0%)	0 (0%)
	AVG	1.8 (3.2%)	0 (0%)	0 (0%)	0 (0%)
APR	W	1.6 (2.7%)	0 (0%)	0 (0%)	-1 (-1.7%)
	AN	1.9 (3.2%)	0 (0%)	0 (0%)	-1.3 (-2%)
	BN	1.4 (2.3%)	-0.2 (-0.4%)	0 (0%)	-1 (-1.6%)
	D	1.9 (3.1%)	-0.1 (-0.2%)	0 (0%)	-0.1 (-0.1%)
	C	2.1 (3.3%)	-0.1 (-0.2%)	0 (0%)	0.1 (0.2%)
	AVG	1.8 (2.9%)	-0.1 (-0.1%)	0 (0%)	-0.7 (-1.1%)
MAY	W	2.9 (4.5%)	-0.1 (-0.1%)	0 (0%)	-0.9 (-1.3%)
	AN	2.6 (3.8%)	-0.4 (-0.6%)	0 (0%)	-0.9 (-1.3%)
	BN	2.2 (3.3%)	-0.4 (-0.6%)	0.1 (0.2%)	-0.4 (-0.5%)
	D	2.4 (3.6%)	-0.2 (-0.3%)	0 (0%)	-0.1 (-0.1%)
	C	2.7 (4%)	0 (0%)	0 (0%)	0 (0%)
	AVG	2.6 (3.9%)	-0.2 (-0.3%)	0 (0%)	-0.5 (-0.7%)
JUN	W	2.4 (3.4%)	-1.1 (-1.5%)	0.2 (0.3%)	1.2 (1.7%)
	AN	1.7 (2.4%)	-1.6 (-2.2%)	0 (0%)	1.7 (2.3%)
	BN	1.6 (2.3%)	-1.7 (-2.3%)	0 (0.1%)	0.4 (0.6%)
	D	3.4 (4.6%)	-0.4 (-0.5%)	0 (-0.1%)	0.2 (0.2%)
	C	3.5 (4.8%)	0 (0%)	0.1 (0.1%)	0.1 (0.1%)
	AVG	2.5 (3.6%)	-1 (-1.3%)	0.1 (0.1%)	0.7 (1%)
JUL	W	3.1 (4.2%)	0.5 (0.6%)	0.1 (0.2%)	1 (1.3%)
	AN	2.7 (3.8%)	0.1 (0.1%)	0.1 (0.1%)	1.8 (2.4%)
	BN	3.7 (5.1%)	0.6 (0.8%)	0.1 (0.1%)	0.7 (0.9%)
	D	5.2 (7.2%)	1.9 (2.5%)	-0.3 (-0.4%)	0.3 (0.4%)
	C	6.4 (8.6%)	1.9 (2.4%)	-0.1 (-0.1%)	-0.4 (-0.5%)
	AVG	4.1 (5.6%)	1 (1.3%)	0 (0%)	0.7 (0.9%)

Alternative 4: Feather River at the Confluence with the Sacramento River					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	3.4 (4.7%)	0.9 (1.2%)	0 (0%)	1.1 (1.4%)
	AN	3.6 (5.1%)	0.9 (1.2%)	0 (0%)	1.1 (1.4%)
	BN	3.8 (5.3%)	0.8 (1%)	-0.2 (-0.2%)	0.7 (0.9%)
	D	5.5 (7.8%)	0.8 (1.1%)	-0.3 (-0.4%)	0.1 (0.2%)
	C	4.3 (5.7%)	-0.1 (-0.1%)	0.1 (0.2%)	-0.2 (-0.3%)
	AVG	4.1 (5.7%)	0.7 (0.9%)	-0.1 (-0.1%)	0.6 (0.8%)
SEP	W	0.2 (0.3%)	0.9 (1.3%)	4.1 (5.8%)	0.7 (1%)
	AN	1.4 (2%)	1.5 (2.2%)	2 (2.8%)	0.6 (0.9%)
	BN	3.7 (5.3%)	0.8 (1%)	0 (0%)	0.4 (0.5%)
	D	4.3 (6.2%)	-0.1 (-0.1%)	-0.3 (-0.4%)	-0.3 (-0.4%)
	C	3.6 (5.1%)	-0.1 (-0.2%)	0 (-0.1%)	-0.5 (-0.6%)
	AVG	2.4 (3.4%)	0.6 (0.8%)	1.5 (2.1%)	0.2 (0.3%)
OCT	W	3.1 (5.1%)	-0.1 (-0.1%)	-0.4 (-0.5%)	0.2 (0.2%)
	AN	2.4 (3.8%)	-0.2 (-0.3%)	-0.1 (-0.2%)	0.5 (0.8%)
	BN	3 (5%)	0.1 (0.2%)	-0.2 (-0.3%)	0.2 (0.3%)
	D	3.1 (5.2%)	0.1 (0.1%)	-0.3 (-0.5%)	0 (-0.1%)
	C	3.2 (5.2%)	0 (-0.1%)	-0.2 (-0.3%)	-0.6 (-0.9%)
	AVG	3 (4.9%)	0 (0%)	-0.3 (-0.4%)	0.1 (0.1%)
NOV	W	2.8 (5.3%)	0 (0%)	-0.3 (-0.5%)	-0.2 (-0.4%)
	AN	2.8 (5.2%)	-0.1 (-0.2%)	-0.1 (-0.2%)	0.1 (0.1%)
	BN	2.8 (5.4%)	0 (0%)	-0.2 (-0.4%)	-0.2 (-0.3%)
	D	2.8 (5.4%)	0 (0%)	-0.2 (-0.3%)	-0.1 (-0.2%)
	C	2.9 (5.5%)	0.1 (0.2%)	-0.1 (-0.2%)	-0.3 (-0.6%)
	AVG	2.8 (5.4%)	0 (0%)	-0.2 (-0.4%)	-0.2 (-0.3%)
DEC	W	1.9 (4.1%)	0 (0%)	0.1 (0.2%)	0.1 (0.3%)
	AN	2.7 (5.7%)	-0.3 (-0.5%)	-0.1 (-0.1%)	-0.2 (-0.5%)
	BN	2.7 (5.8%)	-0.1 (-0.2%)	0.2 (0.4%)	-0.1 (-0.1%)
	D	2.5 (5.5%)	-0.1 (-0.1%)	-0.3 (-0.5%)	0 (0%)
	C	2.8 (6.3%)	0.5 (1%)	0 (0.1%)	-0.3 (-0.6%)
	AVG	2.4 (5.2%)	0 (0%)	0 (0%)	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.

1 **11D.4.15 American River below Nimbus Dam**

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

Alternative 4: American River below Nimbus Dam						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	47	50	50	50	50
	AN	47	49	50	49	50
	BN	46	49	49	49	49
	D	47	49	49	49	49
	C	47	50	50	50	50
	AVG	47	50	50	50	50
FEB	W	48	51	51	51	51
	AN	48	52	52	52	52
	BN	47	51	51	51	51
	D	49	52	52	52	52
	C	51	54	54	54	54
	AVG	48	52	52	52	52
MAR	W	52	55	55	55	55
	AN	53	56	56	56	56
	BN	53	56	56	56	56
	D	53	57	56	57	57
	C	55	58	58	58	58
	AVG	53	56	56	56	56
APR	W	56	59	59	59	59
	AN	57	60	60	60	60
	BN	57	61	61	61	61
	D	59	62	62	62	62
	C	59	63	63	63	63
	AVG	58	60	61	61	60
MAY	W	60	64	64	64	64
	AN	61	66	66	66	66
	BN	61	65	65	65	65
	D	64	67	67	66	67
	C	64	68	68	68	68
	AVG	62	66	65	65	66
JUN	W	64	67	66	66	67
	AN	65	68	67	67	69
	BN	65	68	66	67	68
	D	67	69	69	68	69
	C	68	72	71	72	72
	AVG	66	68	68	68	68
JUL	W	66	68	68	68	68
	AN	66	66	67	67	67
	BN	66	67	68	67	67
	D	67	69	70	70	69
	C	70	74	75	75	74
	AVG	67	69	69	69	69

Alternative 4: American River below Nimbus Dam						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
AUG	W	67	70	70	70	69
	AN	67	69	69	70	69
	BN	67	69	71	70	69
	D	67	71	72	72	71
	C	70	76	77	77	77
	AVG	67	71	71	71	71
SEP	W	65	68	68	68	68
	AN	66	69	70	69	69
	BN	66	69	69	69	69
	D	66	71	71	71	71
	C	68	73	73	73	73
	AVG	66	70	70	70	69
OCT	W	58	68	67	67	67
	AN	59	68	68	68	68
	BN	58	68	67	68	68
	D	59	67	67	68	67
	C	61	68	68	68	68
	AVG	59	68	67	68	68
NOV	W	57	61	61	61	61
	AN	57	61	61	61	61
	BN	56	61	61	60	61
	D	57	61	60	60	61
	C	58	61	61	61	61
	AVG	57	61	61	61	61
DEC	W	50	53	53	53	53
	AN	51	53	53	53	53
	BN	50	52	53	52	53
	D	50	53	53	53	53
	C	50	52	53	52	53
	AVG	50	53	53	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the American River below Nimbus Dam, Year-Round**

Alternative 4: American River below Nimbus Dam					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	3.1 (6.7%)	0 (0.1%)	0 (0%)	0 (0%)
	AN	2.7 (5.7%)	0 (0%)	0.1 (0.2%)	0 (0.1%)
	BN	3 (6.5%)	0 (0.1%)	0.1 (0.1%)	0 (0.1%)
	D	2.8 (6%)	-0.1 (-0.2%)	0 (0%)	0.1 (0.1%)
	C	3.1 (6.6%)	0.1 (0.2%)	0 (-0.1%)	0 (-0.1%)
	AVG	3 (6.4%)	0 (0%)	0 (0%)	0 (0%)
FEB	W	3.5 (7.2%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.8 (8%)	0 (0.1%)	-0.1 (-0.2%)	0 (0.1%)
	BN	3.4 (7.1%)	0.1 (0.1%)	-0.1 (-0.1%)	0 (-0.1%)
	D	3.4 (7%)	0 (0%)	0.1 (0.1%)	0 (0%)
	C	3.6 (7.1%)	0.3 (0.6%)	-0.5 (-0.9%)	-0.4 (-0.8%)
	AVG	3.5 (7.2%)	0.1 (0.1%)	-0.1 (-0.2%)	-0.1 (-0.1%)
MAR	W	3.1 (6%)	0 (0%)	0 (0%)	0 (0%)
	AN	2.9 (5.6%)	0 (0.1%)	0.1 (0.1%)	0 (-0.1%)
	BN	2.7 (5.1%)	0.1 (0.1%)	0 (0%)	0 (0.1%)
	D	3.3 (6.3%)	-0.1 (-0.1%)	-0.1 (-0.1%)	0 (0.1%)
	C	3 (5.5%)	0 (0.1%)	-0.1 (-0.2%)	0 (-0.1%)
	AVG	3.1 (5.8%)	0 (0%)	0 (0%)	0 (0%)
APR	W	3 (5.3%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.2 (5.5%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.1 (5.4%)	0 (-0.1%)	0 (-0.1%)	0 (0%)
	D	2.5 (4.3%)	0 (0%)	0.2 (0.3%)	0.1 (0.1%)
	C	3.7 (6.2%)	0.5 (0.7%)	-0.3 (-0.6%)	-0.5 (-0.8%)
	AVG	3 (5.3%)	0.1 (0.1%)	0 (0%)	-0.1 (-0.1%)
MAY	W	4.1 (6.9%)	0 (-0.1%)	0 (0%)	0 (0%)
	AN	4.5 (7.4%)	-0.3 (-0.4%)	0 (0%)	0.1 (0.2%)
	BN	3.9 (6.4%)	-0.2 (-0.3%)	-0.1 (-0.2%)	0.3 (0.5%)
	D	2.3 (3.7%)	-0.7 (-1%)	0.3 (0.5%)	0.4 (0.6%)
	C	3.8 (5.9%)	0.1 (0.2%)	0 (0%)	-0.1 (-0.2%)
	AVG	3.7 (6%)	-0.2 (-0.3%)	0.1 (0.1%)	0.2 (0.2%)
JUN	W	2.4 (3.8%)	-0.6 (-0.9%)	-0.1 (-0.1%)	0.5 (0.7%)
	AN	2.1 (3.2%)	-0.7 (-1%)	0 (0%)	1.1 (1.6%)
	BN	2.2 (3.3%)	-0.8 (-1.2%)	-1 (-1.4%)	0.4 (0.6%)
	D	1.4 (2.1%)	-0.4 (-0.6%)	0.1 (0.2%)	0.7 (1%)
	C	4.2 (6.1%)	-0.1 (-0.1%)	-0.7 (-1%)	-0.5 (-0.7%)
	AVG	2.4 (3.6%)	-0.5 (-0.8%)	-0.3 (-0.4%)	0.4 (0.7%)
JUL	W	1.5 (2.2%)	0 (0%)	0 (-0.1%)	0 (0%)
	AN	0.6 (1%)	0.2 (0.3%)	0 (0%)	0.1 (0.2%)
	BN	1.4 (2.2%)	0.3 (0.4%)	0.7 (1%)	0 (0%)
	D	3.6 (5.4%)	1.3 (1.9%)	-0.3 (-0.4%)	-1 (-1.4%)
	C	4.8 (6.9%)	0.4 (0.6%)	0.4 (0.5%)	-0.5 (-0.6%)
	AVG	2.3 (3.5%)	0.4 (0.6%)	0.1 (0.1%)	-0.3 (-0.4%)

Alternative 4: American River below Nimbus Dam					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	3.1 (4.6%)	-0.1 (-0.1%)	0.1 (0.2%)	-0.2 (-0.3%)
	AN	2.2 (3.3%)	0.1 (0.2%)	0 (0%)	-0.3 (-0.5%)
	BN	3 (4.5%)	1.2 (1.8%)	0.2 (0.3%)	-1 (-1.4%)
	D	4.8 (7.1%)	0.6 (0.8%)	-0.1 (-0.2%)	-0.6 (-0.9%)
	C	6.9 (9.8%)	0.6 (0.8%)	-0.4 (-0.5%)	-0.2 (-0.2%)
	AVG	3.9 (5.8%)	0.4 (0.6%)	0 (0%)	-0.5 (-0.6%)
SEP	W	2.9 (4.4%)	0.2 (0.3%)	0.6 (0.9%)	-0.2 (-0.2%)
	AN	3.9 (5.9%)	0.8 (1.2%)	0.3 (0.4%)	-0.9 (-1.2%)
	BN	2.9 (4.4%)	0.1 (0.2%)	-0.1 (-0.2%)	-0.3 (-0.5%)
	D	4.4 (6.7%)	-0.6 (-0.8%)	0.3 (0.5%)	0.2 (0.3%)
	C	4.9 (7.1%)	0 (0.1%)	-0.2 (-0.3%)	-0.1 (-0.1%)
	AVG	3.7 (5.5%)	0.1 (0.1%)	0.3 (0.4%)	-0.2 (-0.3%)
OCT	W	9 (15.5%)	-0.3 (-0.4%)	-0.5 (-0.8%)	0 (0%)
	AN	8.9 (14.9%)	0.1 (0.2%)	-0.4 (-0.6%)	0.3 (0.4%)
	BN	9.8 (16.8%)	0.1 (0.1%)	-1.4 (-2%)	0.1 (0.1%)
	D	8.4 (14.3%)	0.1 (0.2%)	-0.3 (-0.5%)	-0.3 (-0.4%)
	C	7.5 (12.3%)	0.1 (0.2%)	-0.5 (-0.8%)	-0.3 (-0.5%)
	AVG	8.8 (14.9%)	0 (0%)	-0.6 (-0.9%)	-0.1 (-0.1%)
NOV	W	3.7 (6.5%)	-0.1 (-0.2%)	0.2 (0.3%)	0.1 (0.1%)
	AN	3.7 (6.5%)	-0.1 (-0.2%)	0.1 (0.1%)	0 (0%)
	BN	4.2 (7.6%)	-0.1 (-0.2%)	0.2 (0.3%)	0.2 (0.3%)
	D	3.8 (6.6%)	-0.1 (-0.1%)	0 (-0.1%)	0.1 (0.2%)
	C	3.5 (6.1%)	-0.1 (-0.1%)	0.2 (0.3%)	0.2 (0.3%)
	AVG	3.8 (6.7%)	-0.1 (-0.2%)	0.1 (0.2%)	0.1 (0.2%)
DEC	W	2.6 (5.1%)	0 (-0.1%)	0.2 (0.3%)	0.1 (0.1%)
	AN	2.7 (5.3%)	0 (0%)	0.1 (0.2%)	0 (0%)
	BN	2.7 (5.4%)	0 (-0.1%)	0.2 (0.4%)	0.1 (0.2%)
	D	2.6 (5.2%)	-0.1 (-0.1%)	0 (0.1%)	0.2 (0.3%)
	C	2.6 (5.1%)	0 (0%)	0.1 (0.2%)	0.1 (0.3%)
	AVG	2.6 (5.2%)	0 (-0.1%)	0.1 (0.3%)	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.

1 **11D.4.16 American River at Watt Avenue**

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

Alternative 4: American River at Watt Avenue						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	47	50	50	50	50
	AN	47	49	49	49	49
	BN	46	49	49	49	49
	D	46	49	49	49	49
	C	46	49	49	50	49
	AVG	46	49	49	49	49
FEB	W	48	52	52	52	52
	AN	48	52	52	52	52
	BN	48	51	51	51	51
	D	49	52	52	52	52
	C	51	54	54	54	54
	AVG	49	52	52	52	52
MAR	W	53	56	56	56	56
	AN	53	56	56	56	56
	BN	54	56	56	56	56
	D	54	57	57	57	57
	C	56	58	58	58	58
	AVG	54	56	56	56	56
APR	W	56	59	59	59	59
	AN	58	61	61	61	61
	BN	58	61	61	61	61
	D	60	63	63	63	63
	C	61	64	64	64	64
	AVG	58	61	61	61	61
MAY	W	61	65	65	65	65
	AN	62	67	67	67	67
	BN	62	67	66	66	67
	D	65	68	68	67	68
	C	66	69	69	69	69
	AVG	63	67	67	67	67
JUN	W	65	68	67	68	68
	AN	67	70	69	69	70
	BN	67	70	68	69	70
	D	69	71	71	71	71
	C	69	73	72	73	73
	AVG	67	70	69	69	70
JUL	W	68	70	70	70	70
	AN	67	68	68	68	69
	BN	67	69	70	69	69
	D	68	71	72	72	71
	C	72	76	76	76	76
	AVG	68	71	71	71	71

Alternative 4: American River at Watt Avenue						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
AUG	W	68	72	72	72	72
	AN	69	72	72	72	71
	BN	69	72	73	73	72
	D	69	73	74	74	73
	C	71	77	77	77	77
	AVG	69	73	73	73	73
SEP	W	66	69	70	69	69
	AN	66	70	71	71	70
	BN	67	70	70	71	70
	D	67	72	72	72	72
	C	69	73	73	74	73
	AVG	67	71	71	71	71
OCT	W	59	67	66	67	67
	AN	60	67	67	67	68
	BN	59	68	67	68	68
	D	60	67	67	67	66
	C	61	68	67	68	68
	AVG	60	67	67	67	67
NOV	W	56	60	60	60	60
	AN	56	60	60	60	60
	BN	56	60	60	59	60
	D	56	59	59	59	59
	C	57	60	60	60	60
	AVG	56	60	60	60	60
DEC	W	50	52	52	52	52
	AN	50	52	52	52	52
	BN	49	51	52	51	52
	D	49	52	52	52	52
	C	49	51	51	51	51
	AVG	49	52	52	52	52

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the American River at Watt Avenue, Year-Round**

Alternative 4: American River at Watt Avenue					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	3.1 (6.7%)	0 (0.1%)	0 (0%)	0 (0%)
	AN	2.7 (5.8%)	0 (0%)	0.1 (0.2%)	0 (0.1%)
	BN	2.9 (6.4%)	0 (0%)	0.1 (0.1%)	0 (0.1%)
	D	2.6 (5.7%)	-0.1 (-0.2%)	0 (0%)	0.1 (0.1%)
	C	3.1 (6.6%)	0.1 (0.3%)	-0.1 (-0.2%)	-0.1 (-0.2%)
	AVG	2.9 (6.3%)	0 (0%)	0 (0%)	0 (0%)
FEB	W	3.4 (7.1%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.7 (7.7%)	0 (0%)	-0.1 (-0.3%)	0 (0%)
	BN	3.2 (6.7%)	0 (0.1%)	0 (-0.1%)	0 (-0.1%)
	D	3.2 (6.5%)	0 (-0.1%)	0.1 (0.1%)	0 (0%)
	C	3.4 (6.6%)	0.1 (0.2%)	-0.3 (-0.5%)	-0.2 (-0.4%)
	AVG	3.4 (6.9%)	0 (0%)	-0.1 (-0.1%)	0 (-0.1%)
MAR	W	3 (5.7%)	0 (0%)	0 (0%)	0 (0%)
	AN	2.9 (5.4%)	0 (0%)	0.1 (0.1%)	0 (-0.1%)
	BN	2.6 (4.8%)	0 (0%)	0 (0%)	0.1 (0.1%)
	D	3.2 (5.8%)	0 (-0.1%)	0 (-0.1%)	0 (0.1%)
	C	2.7 (4.9%)	0 (0%)	0 (-0.1%)	0 (0%)
	AVG	2.9 (5.4%)	0 (0%)	0 (0%)	0 (0%)
APR	W	2.9 (5.1%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.1 (5.4%)	0 (0%)	0 (0%)	0 (0%)
	BN	3 (5.1%)	0 (-0.1%)	0 (-0.1%)	0 (0%)
	D	2.5 (4.2%)	0 (-0.1%)	0.1 (0.1%)	0.1 (0.2%)
	C	3.1 (5.2%)	0.3 (0.5%)	-0.2 (-0.3%)	-0.3 (-0.4%)
	AVG	2.9 (4.9%)	0 (0.1%)	0 (0%)	0 (0%)
MAY	W	4.2 (6.9%)	-0.1 (-0.1%)	0 (0.1%)	0.1 (0.1%)
	AN	4.5 (7.2%)	-0.3 (-0.5%)	0 (0%)	0.2 (0.3%)
	BN	3.8 (6.1%)	-0.3 (-0.5%)	-0.1 (-0.2%)	0.4 (0.6%)
	D	2.3 (3.6%)	-0.6 (-0.9%)	0.2 (0.4%)	0.4 (0.5%)
	C	3.4 (5.1%)	0.1 (0.1%)	0 (0%)	-0.1 (-0.1%)
	AVG	3.6 (5.8%)	-0.3 (-0.4%)	0 (0.1%)	0.2 (0.3%)
JUN	W	2.7 (4.2%)	-0.7 (-1.1%)	-0.1 (-0.2%)	0.6 (0.8%)
	AN	2.1 (3.1%)	-0.8 (-1.2%)	0 (0%)	1.2 (1.7%)
	BN	2.2 (3.2%)	-0.9 (-1.3%)	-1 (-1.5%)	0.6 (0.8%)
	D	1.8 (2.6%)	-0.5 (-0.6%)	0.1 (0.2%)	0.7 (1%)
	C	3.8 (5.5%)	-0.1 (-0.2%)	-0.7 (-1%)	-0.6 (-0.8%)
	AVG	2.5 (3.7%)	-0.6 (-0.9%)	-0.3 (-0.4%)	0.5 (0.7%)
JUL	W	2.1 (3.1%)	0.1 (0.1%)	-0.1 (-0.1%)	-0.1 (-0.1%)
	AN	1.1 (1.6%)	0.2 (0.3%)	0 (0.1%)	0.1 (0.2%)
	BN	2 (3%)	0.3 (0.4%)	0.8 (1.1%)	0.1 (0.1%)
	D	4.1 (6%)	1.2 (1.7%)	-0.2 (-0.3%)	-0.8 (-1.2%)
	C	4 (5.6%)	0.1 (0.2%)	0.5 (0.7%)	0 (0%)
	AVG	2.7 (3.9%)	0.4 (0.5%)	0.1 (0.2%)	-0.2 (-0.2%)

Alternative 4: American River at Watt Avenue					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	4.1 (6%)	-0.1 (-0.1%)	0.1 (0.1%)	-0.3 (-0.4%)
	AN	3 (4.3%)	0 (0%)	0 (0%)	-0.4 (-0.6%)
	BN	3.8 (5.6%)	1.3 (1.8%)	0.1 (0.1%)	-1 (-1.4%)
	D	5.2 (7.6%)	0.6 (0.8%)	0 (0.1%)	-0.5 (-0.7%)
	C	5.8 (8.2%)	0.4 (0.5%)	-0.3 (-0.4%)	-0.1 (-0.2%)
	AVG	4.4 (6.4%)	0.4 (0.5%)	0 (0%)	-0.4 (-0.6%)
SEP	W	3.3 (5%)	0.3 (0.5%)	0.9 (1.4%)	-0.3 (-0.4%)
	AN	4.1 (6.1%)	0.7 (0.9%)	0.4 (0.6%)	-0.7 (-1%)
	BN	3.6 (5.3%)	0.2 (0.3%)	-0.1 (-0.1%)	-0.3 (-0.4%)
	D	4.5 (6.6%)	-0.3 (-0.5%)	0.2 (0.3%)	0.1 (0.1%)
	C	4.4 (6.4%)	0.1 (0.1%)	-0.1 (-0.2%)	-0.1 (-0.1%)
	AVG	3.9 (5.8%)	0.2 (0.2%)	0.4 (0.5%)	-0.2 (-0.3%)
OCT	W	7.5 (12.7%)	-0.2 (-0.4%)	-0.4 (-0.6%)	0 (0%)
	AN	7.5 (12.6%)	0.1 (0.1%)	-0.3 (-0.5%)	0.2 (0.3%)
	BN	8.3 (14%)	0.1 (0.1%)	-1 (-1.5%)	0 (0.1%)
	D	6.9 (11.6%)	0.1 (0.2%)	-0.2 (-0.3%)	-0.3 (-0.4%)
	C	6.4 (10.3%)	0.2 (0.2%)	-0.4 (-0.6%)	-0.3 (-0.4%)
	AVG	7.4 (12.3%)	0 (0%)	-0.5 (-0.7%)	-0.1 (-0.1%)
NOV	W	3.4 (6.1%)	-0.2 (-0.3%)	0.1 (0.2%)	0 (0%)
	AN	3.5 (6.2%)	-0.1 (-0.2%)	0 (0%)	-0.1 (-0.1%)
	BN	3.9 (7%)	-0.1 (-0.2%)	0.2 (0.3%)	0.2 (0.3%)
	D	3.4 (6.1%)	0 (-0.1%)	-0.1 (-0.2%)	0.1 (0.2%)
	C	3.3 (5.8%)	-0.1 (-0.1%)	0.1 (0.2%)	0.2 (0.3%)
	AVG	3.5 (6.2%)	-0.1 (-0.2%)	0.1 (0.1%)	0.1 (0.1%)
DEC	W	2.4 (4.9%)	-0.1 (-0.1%)	0.2 (0.4%)	0.1 (0.2%)
	AN	2.6 (5.1%)	0 (0%)	0.1 (0.2%)	0 (-0.1%)
	BN	2.6 (5.3%)	0 (0%)	0.2 (0.4%)	0.1 (0.2%)
	D	2.4 (4.9%)	-0.1 (-0.1%)	0.1 (0.2%)	0.2 (0.4%)
	C	2.4 (4.9%)	0.1 (0.2%)	0.1 (0.2%)	0.1 (0.2%)
	AVG	2.5 (5%)	0 (0%)	0.2 (0.3%)	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.

1 **11D.4.17 American River at the Confluence with the**
2 **Sacramento River**

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

Alternative 4: American River at the Confluence with the Sacramento River						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	47	50	50	50	50
	AN	46	49	49	49	49
	BN	46	48	49	48	48
	D	46	48	48	48	48
	C	46	49	49	49	49
	AVG	46	49	49	49	49
FEB	W	48	52	52	52	52
	AN	48	52	52	52	52
	BN	48	51	51	51	51
	D	49	52	53	52	52
	C	51	55	54	55	55
	AVG	49	52	52	52	52
MAR	W	53	56	56	56	56
	AN	53	56	56	56	56
	BN	54	56	56	56	56
	D	55	58	58	58	58
	C	56	59	59	59	59
	AVG	54	57	57	57	57
APR	W	57	60	60	60	60
	AN	58	61	61	61	61
	BN	59	62	62	62	62
	D	61	63	63	63	63
	C	62	64	64	65	64
	AVG	59	62	62	62	62
MAY	W	61	66	66	66	66
	AN	63	68	68	68	68
	BN	63	67	67	67	67
	D	66	69	68	68	68
	C	67	70	70	70	70
	AVG	64	67	67	67	67
JUN	W	65	69	68	68	69
	AN	68	71	70	70	71
	BN	68	71	69	70	70
	D	70	72	72	72	72
	C	70	74	73	74	73
	AVG	68	71	70	70	71

Alternative 4: American River at the Confluence with the Sacramento River						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JUL	W	69	71	71	71	71
	AN	68	69	69	69	69
	BN	68	70	71	70	70
	D	69	72	73	73	73
	C	73	76	77	76	76
	AVG	69	72	72	72	72
AUG	W	69	73	73	73	73
	AN	69	73	73	73	72
	BN	70	73	74	74	73
	D	69	74	75	75	74
	C	72	77	77	77	77
	AVG	70	74	74	74	74
SEP	W	66	69	71	70	69
	AN	67	70	72	71	70
	BN	67	71	71	71	71
	D	68	72	72	72	72
	C	69	74	74	74	74
	AVG	67	71	72	71	71
OCT	W	60	67	66	66	67
	AN	60	67	67	67	67
	BN	60	67	66	67	67
	D	60	66	66	66	66
	C	62	67	67	68	67
	AVG	60	67	66	67	67
NOV	W	56	60	60	59	59
	AN	56	60	59	59	59
	BN	55	59	59	59	59
	D	56	59	59	59	59
	C	57	60	60	60	60
	AVG	56	59	59	59	59
DEC	W	49	52	52	52	52
	AN	49	52	52	52	52
	BN	48	51	51	51	51
	D	49	51	51	51	51
	C	48	50	50	50	50
	AVG	49	51	51	51	51

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

Alternative 4: American River at the Confluence with the Sacramento River					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	3.1 (6.7%)	0 (0.1%)	0 (0%)	0 (0%)
	AN	2.7 (5.9%)	0 (0%)	0.1 (0.2%)	0 (0%)
	BN	2.9 (6.3%)	0 (0.1%)	0.1 (0.1%)	0 (0%)
	D	2.6 (5.6%)	-0.1 (-0.2%)	0 (0%)	0 (0.1%)
	C	3.1 (6.7%)	0.2 (0.4%)	-0.1 (-0.2%)	-0.1 (-0.2%)
	AVG	2.9 (6.3%)	0 (0%)	0 (0%)	0 (0%)
FEB	W	3.4 (7%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.7 (7.7%)	0 (0.1%)	-0.1 (-0.3%)	0 (0%)
	BN	3.1 (6.6%)	0.1 (0.1%)	-0.1 (-0.1%)	-0.1 (-0.1%)
	D	3.1 (6.2%)	0 (-0.1%)	0.1 (0.1%)	0 (0%)
	C	3.3 (6.3%)	0.1 (0.1%)	-0.2 (-0.4%)	-0.2 (-0.3%)
	AVG	3.3 (6.7%)	0 (0%)	0 (-0.1%)	0 (-0.1%)
MAR	W	2.9 (5.6%)	0 (0%)	0 (0%)	0 (0%)
	AN	2.8 (5.3%)	0 (0%)	0.1 (0.1%)	0 (0%)
	BN	2.5 (4.6%)	0 (0%)	0 (0%)	0.1 (0.1%)
	D	3.1 (5.6%)	0 (0%)	0 (-0.1%)	0 (0%)
	C	2.6 (4.7%)	0 (0.1%)	0 (0%)	0 (0%)
	AVG	2.8 (5.2%)	0 (0%)	0 (0%)	0 (0%)
APR	W	2.8 (4.9%)	0 (0%)	0 (0%)	0 (0%)
	AN	3 (5.2%)	0 (0%)	0 (0%)	0 (0%)
	BN	2.9 (4.9%)	0 (-0.1%)	0 (-0.1%)	0 (0%)
	D	2.5 (4.2%)	0 (-0.1%)	0 (0%)	0.1 (0.2%)
	C	2.9 (4.7%)	0.2 (0.4%)	-0.1 (-0.2%)	-0.2 (-0.2%)
	AVG	2.8 (4.8%)	0 (0%)	0 (0%)	0 (0%)
MAY	W	4.3 (7%)	-0.1 (-0.1%)	0 (0.1%)	0.1 (0.1%)
	AN	4.5 (7.2%)	-0.3 (-0.5%)	0 (0%)	0.2 (0.3%)
	BN	3.7 (5.9%)	-0.4 (-0.6%)	-0.1 (-0.1%)	0.5 (0.7%)
	D	2.4 (3.6%)	-0.6 (-0.9%)	0.2 (0.3%)	0.3 (0.5%)
	C	3.2 (4.8%)	0.1 (0.1%)	0 (0%)	-0.1 (-0.1%)
	AVG	3.6 (5.7%)	-0.3 (-0.4%)	0 (0.1%)	0.2 (0.3%)
JUN	W	2.9 (4.4%)	-0.8 (-1.2%)	-0.1 (-0.2%)	0.6 (0.9%)
	AN	2.1 (3.2%)	-0.9 (-1.2%)	0 (0%)	1.2 (1.7%)
	BN	2.2 (3.2%)	-0.9 (-1.3%)	-1 (-1.5%)	0.6 (0.9%)
	D	2 (2.9%)	-0.5 (-0.7%)	0.1 (0.2%)	0.7 (1%)
	C	3.7 (5.4%)	-0.1 (-0.2%)	-0.7 (-1%)	-0.6 (-0.8%)
	AVG	2.6 (3.8%)	-0.7 (-0.9%)	-0.3 (-0.4%)	0.5 (0.8%)
JUL	W	2.4 (3.6%)	0.1 (0.2%)	-0.1 (-0.1%)	-0.1 (-0.1%)
	AN	1.3 (1.9%)	0.3 (0.4%)	0 (0.1%)	0.2 (0.2%)
	BN	2.3 (3.4%)	0.3 (0.4%)	0.8 (1.1%)	0.1 (0.1%)
	D	4.2 (6.1%)	1.1 (1.5%)	-0.2 (-0.3%)	-0.7 (-1%)
	C	3.8 (5.2%)	0 (0%)	0.6 (0.7%)	0.1 (0.2%)
	AVG	2.9 (4.1%)	0.4 (0.5%)	0.2 (0.2%)	-0.1 (-0.2%)

Alternative 4: American River at the Confluence with the Sacramento River					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	4.5 (6.6%)	-0.1 (-0.1%)	0.1 (0.1%)	-0.3 (-0.3%)
	AN	3.3 (4.8%)	0 (-0.1%)	0 (0%)	-0.5 (-0.6%)
	BN	4.2 (6%)	1.3 (1.8%)	0 (0%)	-1 (-1.3%)
	D	5.3 (7.6%)	0.6 (0.8%)	0.1 (0.1%)	-0.5 (-0.6%)
	C	5.4 (7.5%)	0.3 (0.4%)	-0.2 (-0.2%)	-0.1 (-0.1%)
	AVG	4.6 (6.6%)	0.4 (0.5%)	0 (0%)	-0.4 (-0.6%)
SEP	W	3.5 (5.3%)	0.4 (0.5%)	1.1 (1.6%)	-0.3 (-0.5%)
	AN	4.2 (6.3%)	0.6 (0.8%)	0.5 (0.7%)	-0.7 (-1%)
	BN	3.9 (5.8%)	0.3 (0.4%)	-0.1 (-0.1%)	-0.3 (-0.4%)
	D	4.5 (6.6%)	-0.2 (-0.3%)	0.2 (0.2%)	0 (0%)
	C	4.2 (6%)	0 (0.1%)	-0.1 (-0.1%)	-0.1 (-0.1%)
	AVG	4 (5.9%)	0.2 (0.3%)	0.4 (0.6%)	-0.3 (-0.4%)
OCT	W	6.7 (11.3%)	-0.2 (-0.3%)	-0.3 (-0.5%)	0 (0%)
	AN	6.8 (11.4%)	0 (0%)	-0.3 (-0.4%)	0.1 (0.2%)
	BN	7.5 (12.5%)	0.1 (0.1%)	-0.9 (-1.3%)	0 (0%)
	D	6.2 (10.3%)	0.1 (0.2%)	-0.2 (-0.3%)	-0.3 (-0.4%)
	C	5.7 (9.3%)	0.2 (0.2%)	-0.3 (-0.4%)	-0.2 (-0.3%)
	AVG	6.6 (11%)	0 (0%)	-0.4 (-0.6%)	-0.1 (-0.1%)
NOV	W	3.3 (5.8%)	-0.2 (-0.3%)	0.1 (0.2%)	0 (0%)
	AN	3.4 (6%)	-0.1 (-0.2%)	0 (0%)	-0.1 (-0.2%)
	BN	3.7 (6.6%)	-0.2 (-0.3%)	0.1 (0.2%)	0.1 (0.2%)
	D	3.2 (5.7%)	-0.1 (-0.1%)	-0.1 (-0.2%)	0.2 (0.3%)
	C	3.2 (5.6%)	0 (-0.1%)	0.2 (0.3%)	0.2 (0.3%)
	AVG	3.3 (5.9%)	-0.1 (-0.2%)	0.1 (0.1%)	0.1 (0.1%)
DEC	W	2.4 (4.8%)	-0.1 (-0.2%)	0.2 (0.4%)	0.1 (0.2%)
	AN	2.5 (5.1%)	0 (0%)	0.1 (0.2%)	0 (-0.1%)
	BN	2.6 (5.3%)	0 (-0.1%)	0.3 (0.5%)	0.1 (0.2%)
	D	2.3 (4.7%)	0 (-0.1%)	0.1 (0.2%)	0.2 (0.4%)
	C	2.3 (4.8%)	0.1 (0.3%)	0.1 (0.1%)	0.1 (0.1%)
	AVG	2.4 (4.9%)	0 (0%)	0.2 (0.3%)	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.

1 **11D.4.18 Stanislaus River at Knights Ferry**

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

Alternative 4: Stanislaus River at Knights Ferry						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	49	52	52	52	52
	AN	49	52	52	52	52
	BN	49	52	52	52	52
	D	48	51	51	51	51
	C	49	52	52	52	52
	AVG	49	52	52	52	52
FEB	W	49	52	52	52	52
	AN	49	52	52	52	52
	BN	49	52	52	52	52
	D	49	52	52	52	52
	C	50	53	53	53	53
	AVG	49	52	52	52	52
MAR	W	49	52	52	52	52
	AN	49	53	53	53	53
	BN	51	54	54	54	54
	D	51	54	54	54	54
	C	52	55	55	55	55
	AVG	50	54	54	54	54
APR	W	50	53	53	53	53
	AN	50	54	54	54	54
	BN	51	55	55	55	55
	D	52	55	55	55	55
	C	53	57	57	57	57
	AVG	51	54	54	54	54
MAY	W	51	55	55	55	55
	AN	53	56	56	56	56
	BN	54	57	57	57	57
	D	55	58	58	58	58
	C	56	59	59	59	59
	AVG	53	57	57	57	57
JUN	W	54	56	56	56	56
	AN	56	59	59	59	59
	BN	58	61	61	61	61
	D	59	63	63	63	63
	C	60	64	64	64	64
	AVG	57	60	60	60	60
JUL	W	57	59	59	59	59
	AN	59	62	62	62	62
	BN	60	63	63	63	63
	D	61	65	65	65	65
	C	62	66	66	66	66
	AVG	59	63	63	63	63

Alternative 4: Stanislaus River at Knights Ferry						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
AUG	W	58	61	61	61	61
	AN	60	63	63	63	63
	BN	60	64	64	64	64
	D	61	65	65	65	65
	C	62	67	67	67	67
	AVG	60	64	64	64	64
SEP	W	59	62	62	62	62
	AN	60	64	64	64	64
	BN	61	64	64	64	64
	D	62	65	65	65	65
	C	63	67	67	67	67
	AVG	61	64	64	64	64
OCT	W	59	62	62	62	62
	AN	59	62	62	62	62
	BN	59	62	62	62	62
	D	58	62	62	62	62
	C	60	64	64	64	64
	AVG	59	63	63	63	63
NOV	W	56	59	59	59	59
	AN	56	59	59	59	59
	BN	56	59	59	59	59
	D	56	59	59	59	59
	C	57	61	61	61	61
	AVG	56	60	60	60	60
DEC	W	52	55	55	55	55
	AN	52	55	55	55	55
	BN	51	54	54	54	54
	D	51	54	54	54	54
	C	52	55	55	55	55
	AVG	51	55	55	55	55

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Knights Ferry, Year-Round**

Alternative 4: Stanislaus River at Knights Ferry					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	3.1 (6.3%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.1 (6.4%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.1 (6.4%)	0 (0%)	0 (0%)	0 (0%)
	D	3 (6.3%)	0 (0%)	0 (0%)	0 (0%)
	C	3 (6.2%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.1 (6.3%)	0 (0%)	0 (0%)	0 (0%)
FEB	W	3.1 (6.4%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.2 (6.5%)	0 (0%)	0 (0%)	0 (0%)
	BN	3 (6.2%)	0 (0%)	0 (0%)	0 (0%)
	D	3.2 (6.5%)	0 (0%)	0 (0%)	0 (0%)
	C	3.1 (6.2%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.1 (6.4%)	0 (0%)	0 (0%)	0 (0%)
MAR	W	3.2 (6.6%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.6 (7.3%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.1 (6.1%)	0 (0%)	0 (0%)	0 (0%)
	D	3.3 (6.5%)	0 (0%)	0 (0%)	0 (0%)
	C	3 (5.8%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.3 (6.5%)	0 (0%)	0 (0%)	0 (0%)
APR	W	3.1 (6.2%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.3 (6.6%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.4 (6.6%)	0 (0%)	0 (0%)	0 (0%)
	D	3.5 (6.7%)	0 (0%)	0 (0%)	0 (0%)
	C	3.6 (6.7%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.3 (6.5%)	0 (0%)	0 (0%)	0 (0%)
MAY	W	3 (5.9%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.5 (6.5%)	0 (0%)	0 (0%)	0 (0%)
	D	3.4 (6.2%)	0 (0%)	0 (0%)	0 (0%)
	C	3.3 (5.9%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.2 (6.1%)	0 (0%)	0 (0%)	0 (0%)
JUN	W	2.6 (4.8%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.3 (6%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.6 (6.3%)	0 (0%)	0 (0%)	0 (0%)
	D	3.8 (6.5%)	0 (0%)	0 (0%)	0 (0%)
	C	4.2 (7%)	0 (0.1%)	-0.1 (-0.1%)	-0.3 (-0.4%)
	AVG	3.4 (6%)	0 (0%)	0 (0%)	-0.1 (-0.1%)
JUL	W	2.5 (4.4%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.5 (5.9%)	0 (0%)	0 (0%)	0 (0%)
	D	3.7 (6.1%)	0 (0%)	0 (0%)	0 (0%)
	C	4.1 (6.6%)	0 (0%)	0 (0%)	0.4 (0.6%)
	AVG	3.3 (5.6%)	0 (0%)	0 (0%)	0.1 (0.1%)

Alternative 4: Stanislaus River at Knights Ferry					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	3.4 (5.8%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.5 (5.8%)	0 (0%)	0 (0%)	0 (0%)
	D	3.6 (5.8%)	0 (0%)	0 (0%)	0 (0%)
	C	4.3 (6.9%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.6 (6%)	0 (0%)	0 (0%)	0 (0%)
SEP	W	3.5 (6%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.6 (6%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.6 (5.9%)	0 (0%)	0 (0%)	0 (0%)
	D	3.7 (6%)	0 (0%)	0 (0%)	0 (0%)
	C	4 (6.3%)	0.1 (0.1%)	0 (0%)	0.2 (0.3%)
	AVG	3.7 (6%)	0 (0%)	0 (0%)	0 (0.1%)
OCT	W	3.5 (5.9%)	0 (0%)	0 (0%)	0 (0%)
	AN	3 (5.1%)	0 (0%)	0 (0%)	0.2 (0.3%)
	BN	3.3 (5.6%)	0 (0%)	0 (0%)	0 (0%)
	D	3.4 (5.9%)	0 (0%)	0 (0%)	0 (0%)
	C	3.7 (6.1%)	0 (0%)	0 (0%)	-0.1 (-0.2%)
	AVG	3.4 (5.7%)	0 (0%)	0 (0%)	0 (0%)
NOV	W	3.3 (5.8%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.1 (5.5%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.3 (5.8%)	0 (0%)	0 (0%)	0 (0%)
	D	3.4 (6%)	0 (0%)	0 (0%)	0 (0%)
	C	3.5 (6.1%)	0 (0%)	0 (0%)	0 (-0.1%)
	AVG	3.3 (5.8%)	0 (0%)	0 (0%)	0 (0%)
DEC	W	3.3 (6.5%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)	0 (0%)	0 (-0.1%)
	BN	3.3 (6.4%)	0 (0%)	0 (0%)	0 (0%)
	D	3.2 (6.2%)	0 (0%)	0 (0%)	0 (0%)
	C	3.3 (6.4%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.2 (6.3%)	0 (0%)	0 (0%)	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.

1 **11D.4.19 Stanislaus River at Orange Blossom Bridge**

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

Alternative 4: Stanislaus River at Orange Blossom Bridge						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	48	51	51	51	51
	AN	48	51	51	51	51
	BN	48	51	51	51	51
	D	47	50	50	50	50
	C	48	51	51	51	51
	AVG	48	51	51	51	51
FEB	W	49	52	52	52	52
	AN	49	52	52	52	52
	BN	49	52	52	52	52
	D	49	52	52	52	52
	C	50	53	53	53	53
	AVG	49	52	52	52	52
MAR	W	49	53	53	53	53
	AN	50	54	54	54	54
	BN	52	55	55	55	55
	D	52	56	56	56	56
	C	53	56	56	56	56
	AVG	51	54	54	54	54
APR	W	50	53	53	53	53
	AN	51	54	54	54	54
	BN	52	56	56	56	56
	D	53	56	56	56	56
	C	55	58	58	58	58
	AVG	52	55	55	55	55
MAY	W	53	56	56	56	56
	AN	54	57	57	57	57
	BN	55	59	59	59	59
	D	56	60	60	60	60
	C	58	61	61	61	61
	AVG	55	58	58	58	58
JUN	W	56	58	58	58	58
	AN	58	62	62	62	62
	BN	60	64	64	64	64
	D	62	66	66	66	66
	C	63	67	67	67	67
	AVG	59	63	63	63	63
JUL	W	60	62	62	62	62
	AN	63	66	66	66	66
	BN	63	67	67	67	67
	D	64	68	68	68	68
	C	65	69	69	69	69
	AVG	63	66	66	66	66

Alternative 4: Stanislaus River at Orange Blossom Bridge						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
AUG	W	60	64	64	64	64
	AN	63	66	66	66	66
	BN	63	66	66	66	66
	D	64	68	68	68	68
	C	65	69	69	69	69
	AVG	63	66	66	66	66
SEP	W	60	64	64	64	64
	AN	63	66	66	66	66
	BN	63	67	67	67	67
	D	63	67	67	67	67
	C	64	68	68	68	68
	AVG	62	66	66	66	66
OCT	W	59	62	62	62	62
	AN	59	62	62	62	62
	BN	59	62	62	62	62
	D	59	62	62	62	62
	C	60	64	64	64	64
	AVG	59	62	62	62	63
NOV	W	55	58	58	58	58
	AN	55	58	58	58	58
	BN	55	58	58	58	58
	D	55	58	58	58	58
	C	56	59	59	59	59
	AVG	55	58	58	58	58
DEC	W	50	54	54	54	53
	AN	50	53	53	53	53
	BN	49	53	53	53	53
	D	50	52	52	52	52
	C	50	53	53	53	53
	AVG	50	53	53	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Orange Blossom Bridge, Year-Round**

Alternative 4: Stanislaus River at Orange Blossom Bridge					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	3 (6.2%)	0 (0%)	0 (0%)	0 (0%)
	AN	3 (6.3%)	0 (0%)	0 (0%)	0 (0%)
	BN	2.9 (6.1%)	0 (0%)	0 (0%)	0 (0%)
	D	2.8 (5.9%)	0 (0%)	0 (0%)	0 (0%)
	C	2.8 (5.8%)	0 (0%)	0 (0%)	0 (0%)
	AVG	2.9 (6.1%)	0 (0%)	0 (0%)	0 (0%)
FEB	W	3.1 (6.3%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.1 (6.3%)	0 (0%)	0 (0%)	0 (0%)
	BN	3 (6%)	0 (0%)	0 (0%)	0 (0%)
	D	3.2 (6.5%)	0 (0%)	0 (0%)	0 (0%)
	C	3.2 (6.3%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.1 (6.3%)	0 (0%)	0 (0%)	0 (0%)
MAR	W	3.2 (6.4%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.7 (7.3%)	0 (0%)	0 (0%)	0 (0%)
	BN	3 (5.8%)	0 (0%)	0 (0%)	0 (0%)
	D	3.4 (6.6%)	0 (0%)	0 (0%)	0 (0%)
	C	3.1 (5.8%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.3 (6.4%)	0 (0%)	0 (0%)	0 (0%)
APR	W	3.1 (6.1%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.3 (6.5%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.5 (6.7%)	0 (0%)	0 (0%)	0 (0%)
	D	3.6 (6.8%)	0 (0%)	0 (0%)	0 (0%)
	C	3.6 (6.6%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.4 (6.5%)	0 (0%)	0 (0%)	0 (0%)
MAY	W	3.2 (6%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.3 (6%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.9 (7.1%)	0 (0%)	0 (0%)	0 (0%)
	D	3.6 (6.5%)	0 (0%)	0 (0%)	0 (0%)
	C	3.5 (6%)	0 (0%)	0 (0%)	0 (-0.1%)
	AVG	3.4 (6.2%)	0 (0%)	0 (0%)	0 (0%)
JUN	W	2.3 (4.1%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.8 (6.6%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.9 (6.5%)	0 (0%)	0 (0%)	0 (0%)
	D	4.3 (6.9%)	0 (0%)	0 (0%)	0 (0%)
	C	4.2 (6.7%)	0.1 (0.2%)	-0.1 (-0.1%)	-0.2 (-0.3%)
	AVG	3.5 (6%)	0 (0%)	0 (0%)	0 (-0.1%)
JUL	W	2.1 (3.5%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.6 (5.7%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.5 (5.6%)	0 (0%)	0 (0%)	0 (0%)
	D	3.8 (5.9%)	0 (0%)	0 (0%)	0 (0%)
	C	4 (6.2%)	0 (0%)	0 (0%)	0.3 (0.4%)
	AVG	3.2 (5.2%)	0 (0%)	0 (0%)	0.1 (0.1%)

Alternative 4: Stanislaus River at Orange Blossom Bridge					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	3.9 (6.4%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.5 (5.7%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.5 (5.5%)	0 (0%)	0 (0%)	0 (0%)
	D	3.5 (5.5%)	0 (0%)	0 (0%)	0 (0%)
	C	4.2 (6.5%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.7 (6%)	0 (0%)	0 (0%)	0 (0%)
SEP	W	3.8 (6.3%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.9 (6.2%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.7 (6%)	0 (0%)	0 (0%)	0 (0%)
	D	3.7 (5.9%)	0 (0%)	0 (0%)	0 (0%)
	C	3.9 (6%)	-0.1 (-0.1%)	0 (0%)	0.1 (0.2%)
	AVG	3.8 (6.1%)	0 (0%)	0 (0%)	0 (0%)
OCT	W	3.3 (5.6%)	0 (0%)	0 (0%)	0 (0%)
	AN	3 (5.1%)	0 (0%)	0 (0%)	0.1 (0.2%)
	BN	3.2 (5.4%)	0 (0%)	0 (0%)	0 (0%)
	D	3.4 (5.7%)	0 (0%)	0 (0%)	0 (0%)
	C	3.6 (5.9%)	0 (0%)	0 (0%)	0 (-0.1%)
	AVG	3.3 (5.6%)	0 (0%)	0 (0%)	0 (0%)
NOV	W	3.1 (5.7%)	0 (0%)	0 (0%)	0 (0%)
	AN	3 (5.5%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.2 (5.8%)	0 (0%)	0 (0%)	0 (0%)
	D	3.2 (5.9%)	0 (0%)	0 (0%)	0 (0%)
	C	3.2 (5.7%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.1 (5.7%)	0 (0%)	0 (0%)	0 (0%)
DEC	W	3.2 (6.4%)	0 (0%)	0 (0%)	-0.1 (-0.1%)
	AN	2.9 (5.9%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.3 (6.6%)	0 (0%)	0 (0%)	0 (0%)
	D	3 (6%)	0 (0%)	0 (0%)	0 (0%)
	C	3.1 (6.2%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.1 (6.2%)	0 (0%)	0 (0%)	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.

1 **11D.4.20 Stanislaus River at Riverbank**

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

Alternative 4: Stanislaus River at Riverbank						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	47	50	50	50	50
	AN	47	49	49	49	49
	BN	46	49	49	49	49
	D	45	48	48	48	48
	C	46	49	49	49	49
	AVG	46	49	49	49	49
FEB	W	49	52	52	52	52
	AN	50	53	53	53	53
	BN	50	52	52	52	52
	D	50	53	53	53	53
	C	51	54	54	54	54
	AVG	50	53	53	53	53
MAR	W	51	54	54	54	54
	AN	52	55	55	55	55
	BN	53	56	56	56	56
	D	54	57	57	57	57
	C	54	57	57	57	57
	AVG	52	56	56	56	56
APR	W	52	55	55	55	55
	AN	53	56	56	56	56
	BN	54	57	57	57	57
	D	54	58	58	58	58
	C	57	60	60	60	60
	AVG	54	57	57	57	57
MAY	W	56	59	59	59	59
	AN	57	60	60	60	60
	BN	58	62	62	62	62
	D	59	62	62	62	62
	C	60	64	64	64	64
	AVG	58	61	61	61	61
JUN	W	60	62	62	62	62
	AN	62	66	66	66	66
	BN	64	68	68	68	68
	D	66	70	70	70	70
	C	66	70	70	70	70
	AVG	63	67	67	67	67
JUL	W	65	67	67	67	67
	AN	68	71	71	71	71
	BN	68	71	71	71	71
	D	68	72	72	72	72
	C	68	72	72	72	72
	AVG	67	70	70	70	70

Alternative 4: Stanislaus River at Riverbank						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
AUG	W	65	69	69	69	69
	AN	67	70	70	70	70
	BN	67	70	70	70	70
	D	68	71	71	71	71
	C	67	71	71	71	71
	AVG	66	70	70	70	70
SEP	W	64	67	67	67	67
	AN	66	70	70	70	70
	BN	66	69	69	69	69
	D	66	70	70	70	70
	C	66	70	69	70	70
	AVG	65	69	69	69	69
OCT	W	59	63	63	63	63
	AN	59	62	62	62	62
	BN	59	62	62	62	62
	D	59	62	62	62	62
	C	61	64	64	64	64
	AVG	60	63	63	63	63
NOV	W	53	56	56	56	56
	AN	53	56	56	56	56
	BN	53	56	56	56	56
	D	53	56	56	56	56
	C	54	57	57	57	57
	AVG	53	56	56	56	56
DEC	W	48	51	51	51	51
	AN	48	50	50	50	50
	BN	47	50	50	50	50
	D	47	50	50	50	50
	C	47	50	50	50	50
	AVG	47	50	50	50	50

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Riverbank, Year-Round**

Alternative 4: Stanislaus River at Riverbank					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	2.9 (6.3%)	0 (0%)	0 (0%)	0 (0%)
	AN	3 (6.4%)	0 (0%)	0 (0%)	0 (0%)
	BN	2.8 (6%)	0 (0%)	0 (0%)	0 (0%)
	D	2.5 (5.6%)	0 (0%)	0 (0%)	0 (0%)
	C	2.7 (5.8%)	0 (0%)	0 (0%)	0 (0%)
	AVG	2.8 (6%)	0 (0%)	0 (0%)	0 (0%)
FEB	W	2.9 (5.9%)	0 (0%)	0 (0%)	0 (0%)
	AN	2.9 (5.8%)	0 (0%)	0 (0%)	0 (0%)
	BN	2.7 (5.5%)	0 (0%)	0 (0%)	0 (0%)
	D	3 (6.1%)	0 (0%)	0 (0%)	0 (0%)
	C	3.1 (6%)	0 (0%)	0 (0%)	0 (0%)
	AVG	2.9 (5.9%)	0 (0%)	0 (0%)	0 (0%)
MAR	W	3 (5.9%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.6 (7%)	0 (0%)	0 (0%)	0 (0%)
	BN	2.8 (5.3%)	0 (0%)	0 (0%)	0 (0%)
	D	3.4 (6.4%)	0 (0%)	0 (0%)	0 (0%)
	C	3 (5.6%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.2 (6%)	0 (0%)	0 (0%)	0 (0%)
APR	W	3 (5.7%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.2 (6.1%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.6 (6.6%)	0 (0%)	0 (0%)	0 (0%)
	D	3.6 (6.7%)	0 (0%)	0 (0%)	0 (0%)
	C	3.6 (6.3%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.3 (6.2%)	0 (0%)	0 (0%)	0 (0%)
MAY	W	3.2 (5.8%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.4 (6%)	0 (0%)	0 (0%)	0 (0%)
	BN	4.3 (7.4%)	0 (0%)	0 (0%)	0 (0%)
	D	3.9 (6.6%)	0 (0%)	0 (0%)	0 (0%)
	C	3.5 (5.8%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.6 (6.2%)	0 (0%)	0 (0%)	0 (0%)
JUN	W	2 (3.4%)	0 (0%)	0 (0%)	0 (0%)
	AN	4 (6.4%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.7 (5.7%)	0 (0%)	0 (0%)	0 (0%)
	D	4 (6.1%)	0 (0%)	0 (0%)	0 (0%)
	C	3.7 (5.6%)	0.1 (0.1%)	0 (0%)	0 (-0.1%)
	AVG	3.3 (5.2%)	0 (0%)	0 (0%)	0 (0%)
JUL	W	1.8 (2.8%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.3 (4.8%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.1 (4.6%)	0 (0%)	0 (0%)	0 (0%)
	D	3.6 (5.3%)	0 (0%)	0 (0%)	0 (0%)
	C	3.5 (5.1%)	0 (0%)	0 (0%)	0.1 (0.2%)
	AVG	2.9 (4.3%)	0 (0%)	0 (0%)	0 (0%)

Alternative 4: Stanislaus River at Riverbank					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	4.1 (6.4%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.4 (5.1%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.2 (4.8%)	0 (0%)	0 (0%)	0 (0%)
	D	3.3 (4.9%)	0 (0%)	0 (0%)	0 (0%)
	C	3.8 (5.6%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.6 (5.5%)	0 (0%)	0 (0%)	0 (0%)
SEP	W	3.9 (6.2%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.9 (5.9%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.7 (5.7%)	0 (0%)	0 (0%)	0 (0%)
	D	3.7 (5.6%)	0 (0%)	0 (0%)	0 (0%)
	C	3.6 (5.5%)	-0.2 (-0.2%)	0 (0%)	0 (0%)
	AVG	3.8 (5.8%)	0 (0%)	0 (0%)	0 (0%)
OCT	W	3.1 (5.3%)	0 (0%)	0 (0%)	0 (0%)
	AN	2.9 (4.9%)	0 (0%)	0 (0%)	0 (0.1%)
	BN	2.9 (4.9%)	0 (0%)	0 (0%)	0 (0%)
	D	3.1 (5.2%)	0 (0%)	0 (0%)	0 (0%)
	C	3.3 (5.5%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.1 (5.2%)	0 (0%)	0 (0%)	0 (0%)
NOV	W	3 (5.7%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.1 (5.8%)	0 (0%)	0 (0%)	0 (0%)
	D	3.1 (5.8%)	0 (0%)	0 (0%)	0 (0%)
	C	3 (5.6%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.1 (5.7%)	0 (0%)	0 (0%)	0 (0%)
DEC	W	3.1 (6.5%)	0 (0%)	0 (0%)	-0.1 (-0.2%)
	AN	2.9 (6.1%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.3 (7%)	0 (0%)	0 (0%)	0 (0%)
	D	2.8 (5.9%)	0 (0%)	0 (0%)	0 (0%)
	C	2.9 (6.2%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3 (6.4%)	0 (0%)	0 (0%)	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.

1 **11D.4.21 Stanislaus River at the Confluence with the San**
2 **Joaquin River**

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

Alternative 4: Stanislaus River at the Confluence with the San Joaquin River						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JAN	W	46	49	49	49	49
	AN	46	49	49	49	49
	BN	46	49	49	49	49
	D	45	47	47	47	47
	C	45	48	48	48	48
	AVG	46	48	48	48	48
FEB	W	50	53	53	53	53
	AN	50	53	53	53	53
	BN	50	52	52	52	52
	D	50	53	53	53	53
	C	51	54	54	54	54
	AVG	50	53	53	53	53
MAR	W	52	55	55	55	55
	AN	53	56	56	56	56
	BN	54	57	57	57	57
	D	55	58	58	58	58
	C	55	58	58	58	58
	AVG	54	56	56	56	56
APR	W	54	57	57	57	57
	AN	55	58	58	58	58
	BN	56	60	60	60	60
	D	57	60	60	60	60
	C	59	62	62	62	62
	AVG	56	59	59	59	59
MAY	W	59	62	62	62	62
	AN	60	63	63	63	63
	BN	60	64	64	64	64
	D	61	65	65	65	65
	C	63	66	66	66	66
	AVG	60	64	64	64	64
JUN	W	62	65	65	65	65
	AN	65	69	69	69	69
	BN	66	70	70	70	70
	D	68	72	72	72	72
	C	68	71	71	71	71
	AVG	65	69	69	69	69

Alternative 4: Stanislaus River at the Confluence with the San Joaquin River						
Month	WYT	EXISTING CONDITIONS	NAA	H1	H3	H4
JUL	W	68	70	70	70	70
	AN	70	73	73	73	73
	BN	70	73	73	73	73
	D	70	74	74	74	74
	C	70	73	73	73	73
	AVG	69	72	72	72	72
AUG	W	67	71	71	71	71
	AN	69	72	72	72	72
	BN	68	71	71	71	71
	D	69	72	72	72	72
	C	69	72	72	72	72
	AVG	68	72	72	72	72
SEP	W	65	69	69	69	69
	AN	67	71	71	71	71
	BN	67	70	70	70	70
	D	67	70	70	70	70
	C	67	70	70	70	70
	AVG	66	70	70	70	70
OCT	W	60	63	63	63	63
	AN	60	62	62	62	62
	BN	59	62	62	62	62
	D	59	62	62	62	62
	C	61	64	64	64	64
	AVG	60	63	63	63	63
NOV	W	53	56	56	56	56
	AN	52	55	55	55	55
	BN	52	55	55	55	55
	D	52	55	55	55	55
	C	53	56	56	56	56
	AVG	52	55	55	55	55
DEC	W	47	50	50	50	50
	AN	46	49	49	49	49
	BN	45	49	49	49	49
	D	45	48	48	48	48
	C	45	48	48	48	48
	AVG	46	49	49	49	49

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

Alternative 4: Stanislaus River at the Confluence with the San Joaquin River					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
JAN	W	2.9 (6.3%)	0 (0%)	0 (0%)	0 (0%)
	AN	2.9 (6.4%)	0 (0%)	0 (0%)	0 (0%)
	BN	2.8 (6.1%)	0 (0%)	0 (0%)	0 (0%)
	D	2.5 (5.7%)	0 (0%)	0 (0%)	0 (0%)
	C	2.8 (6.1%)	0 (0%)	0 (0%)	0 (0%)
	AVG	2.8 (6.2%)	0 (0%)	0 (0%)	0 (0%)
FEB	W	2.8 (5.7%)	0 (0%)	0 (0%)	0 (0%)
	AN	2.8 (5.6%)	0 (0%)	0 (0%)	0 (0%)
	BN	2.6 (5.2%)	0 (0%)	0 (0%)	0 (0%)
	D	2.8 (5.6%)	0 (0%)	0 (0%)	0 (0%)
	C	2.9 (5.6%)	0 (0%)	0 (0%)	0 (0%)
	AVG	2.8 (5.6%)	0 (0%)	0 (0%)	0 (0%)
MAR	W	2.8 (5.5%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.3 (6.3%)	0 (0%)	0 (0%)	0 (0%)
	BN	2.6 (4.9%)	0 (0%)	0 (0%)	0 (0%)
	D	3.2 (5.8%)	0 (0%)	0 (0%)	0 (0%)
	C	2.8 (5.1%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3 (5.5%)	0 (0%)	0 (0%)	0 (0%)
APR	W	2.8 (5.2%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.1 (5.6%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.4 (6.1%)	0 (0%)	0 (0%)	0 (0%)
	D	3.5 (6.1%)	0 (0%)	0 (0%)	0 (0%)
	C	3.2 (5.5%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.2 (5.6%)	0 (0%)	0 (0%)	0 (0%)
MAY	W	3.1 (5.3%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)	0 (0%)	0 (0%)
	BN	4.1 (6.8%)	0 (0%)	0 (0%)	0 (0%)
	D	3.7 (6%)	0 (0%)	0 (0%)	0 (0%)
	C	3.2 (5.1%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.4 (5.7%)	0 (0%)	0 (0%)	0 (0%)
JUN	W	2.3 (3.6%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.8 (5.8%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.3 (5.1%)	0 (0%)	0 (0%)	0 (0%)
	D	3.4 (5%)	0 (0%)	0 (0%)	0 (0%)
	C	3.2 (4.7%)	0 (0%)	0.1 (0.1%)	0 (0%)
	AVG	3.1 (4.7%)	0 (0%)	0 (0%)	0 (0%)
JUL	W	2.3 (3.3%)	0 (0%)	0 (0%)	0 (0%)
	AN	3 (4.2%)	0 (0%)	0 (0%)	0 (0%)
	BN	2.8 (4%)	0 (0%)	0 (0%)	0 (0%)
	D	3.2 (4.5%)	0 (0%)	0 (0%)	0 (0%)
	C	3.1 (4.5%)	0 (0%)	0 (0%)	0.1 (0.1%)
	AVG	2.8 (4%)	0 (0%)	0 (0%)	0 (0%)

Alternative 4: Stanislaus River at the Confluence with the San Joaquin River					
Month	WYT	EXISTING CONDITIONS vs. H3	NAA vs. H3	H3 vs. H1	H3 vs. H4
AUG	W	4.1 (6.1%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.2 (4.7%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.1 (4.5%)	0 (0%)	0 (0%)	0 (0%)
	D	3.1 (4.5%)	0 (0%)	0 (0%)	0 (0%)
	C	3.6 (5.2%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.5 (5.1%)	0 (0%)	0 (0%)	0 (0%)
SEP	W	3.9 (6%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.7 (5.6%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.7 (5.5%)	0 (0%)	0 (0%)	0 (0%)
	D	3.7 (5.5%)	0 (0%)	0 (0%)	0 (0%)
	C	3.5 (5.3%)	-0.2 (-0.2%)	0 (0%)	0 (0%)
	AVG	3.7 (5.6%)	0 (0%)	0 (0%)	0 (0%)
OCT	W	3 (5%)	0 (0%)	0 (0%)	0 (0%)
	AN	2.8 (4.8%)	0 (0%)	0 (0%)	0 (0%)
	BN	2.7 (4.5%)	0 (0%)	0 (0%)	0 (0%)
	D	2.9 (4.9%)	0 (0%)	0 (0%)	0 (0%)
	C	3.2 (5.3%)	0 (0%)	0 (0%)	0 (0%)
	AVG	2.9 (4.9%)	0 (0%)	0 (0%)	0 (0%)
NOV	W	3 (5.8%)	0 (0%)	0 (0%)	0 (0%)
	AN	3.2 (6%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.1 (5.9%)	0 (0%)	0 (0%)	0 (0%)
	D	3.1 (5.9%)	0 (0%)	0 (0%)	0 (0%)
	C	2.9 (5.6%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3.1 (5.8%)	0 (0%)	0 (0%)	0 (0%)
DEC	W	3.1 (6.6%)	0 (0.1%)	0 (0%)	-0.1 (-0.2%)
	AN	2.9 (6.2%)	0 (0%)	0 (0%)	0 (0%)
	BN	3.2 (7.1%)	0 (0%)	0 (0%)	0 (0%)
	D	2.8 (6.1%)	0 (0%)	0 (0%)	0 (0%)
	C	2.9 (6.4%)	0 (0%)	0 (0%)	0 (0%)
	AVG	3 (6.5%)	0 (0%)	0 (0%)	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.

1 **11D.5 Alternative 5**

2 **11D.5.1 Sacramento River at Keswick**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
4 **Sacramento River at Keswick, Year-Round**

Alternative 5: Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	46	47	47
	AN	46	48	48
	BN	47	48	48
	D	47	48	48
	C	47	48	48
	AVG	46	48	48
FEB	W	45	47	47
	AN	46	47	47
	BN	46	47	47
	D	46	48	48
	C	46	48	48
	AVG	46	47	47
MAR	W	46	47	47
	AN	46	48	48
	BN	47	48	48
	D	47	49	49
	C	48	50	50
	AVG	47	48	48
APR	W	47	49	49
	AN	48	50	50
	BN	48	50	50
	D	48	50	50
	C	49	51	51
	AVG	48	50	50
MAY	W	49	50	50
	AN	49	51	50
	BN	49	51	51
	D	49	51	51
	C	51	53	53
	AVG	49	51	51
JUN	W	50	51	51
	AN	50	51	51
	BN	50	51	51
	D	50	52	52
	C	53	55	55
	AVG	50	52	52

Alternative 5: Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL
JUL	W	51	52	52
	AN	51	52	52
	BN	51	52	52
	D	51	54	54
	C	54	59	59
	AVG	51	53	54
AUG	W	52	54	54
	AN	52	54	54
	BN	52	54	55
	D	53	56	56
	C	57	64	64
	AVG	53	56	56
SEP	W	53	55	55
	AN	54	56	56
	BN	54	56	57
	D	55	59	59
	C	60	66	66
	AVG	55	58	58
OCT	W	54	57	57
	AN	54	57	57
	BN	54	57	58
	D	55	58	59
	C	56	60	60
	AVG	54	58	58
NOV	W	53	55	55
	AN	52	55	55
	BN	53	55	56
	D	53	56	56
	C	54	56	56
	AVG	53	55	55
DEC	W	49	50	50
	AN	49	51	51
	BN	50	52	52
	D	50	52	52
	C	51	52	52
	AVG	50	51	51

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

Alternative 5: Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS	
		vs. A5_LLT	NAA vs. A5_LLT
JAN	W	1.3 (2.8%)	0 (-0.1%)
	AN	1.4 (3.1%)	0 (0%)
	BN	1.7 (3.7%)	0 (0.1%)
	D	1.6 (3.3%)	-0.1 (-0.1%)
	C	1.7 (3.8%)	0 (-0.1%)
	AVG	1.5 (3.3%)	0 (-0.1%)
FEB	W	1.5 (3.4%)	0 (0%)
	AN	1.6 (3.5%)	0 (0%)
	BN	1.5 (3.3%)	0 (-0.1%)
	D	1.7 (3.7%)	0 (0%)
	C	1.8 (3.8%)	0 (0%)
	AVG	1.6 (3.5%)	0 (0%)
MAR	W	1.5 (3.2%)	0 (0%)
	AN	1.7 (3.6%)	0 (0.1%)
	BN	1.5 (3.2%)	-0.1 (-0.1%)
	D	1.6 (3.5%)	0 (-0.1%)
	C	1.8 (3.7%)	-0.2 (-0.3%)
	AVG	1.6 (3.4%)	0 (-0.1%)
APR	W	1.6 (3.4%)	0 (-0.1%)
	AN	1.7 (3.5%)	0 (-0.1%)
	BN	1.4 (2.8%)	0 (0%)
	D	1.5 (3.1%)	-0.1 (-0.1%)
	C	2.1 (4.2%)	0 (-0.1%)
	AVG	1.6 (3.4%)	0 (-0.1%)
MAY	W	1.7 (3.4%)	-0.1 (-0.2%)
	AN	1.2 (2.5%)	-0.1 (-0.2%)
	BN	1.5 (2.9%)	0.1 (0.2%)
	D	1.4 (2.9%)	-0.1 (-0.2%)
	C	2.1 (4.1%)	0.1 (0.1%)
	AVG	1.6 (3.2%)	0 (-0.1%)
JUN	W	0.9 (1.7%)	-0.1 (-0.2%)
	AN	1.1 (2.2%)	-0.1 (-0.2%)
	BN	1.1 (2.3%)	-0.1 (-0.2%)
	D	1.9 (3.8%)	0 (0.1%)
	C	2.3 (4.5%)	0.2 (0.4%)
	AVG	1.4 (2.8%)	0 (0%)
JUL	W	1 (2%)	0.1 (0.2%)
	AN	1.5 (2.9%)	0.1 (0.2%)
	BN	1.6 (3.1%)	0.2 (0.4%)
	D	2.8 (5.4%)	0.4 (0.8%)
	C	4.7 (8.6%)	-0.5 (-0.8%)
	AVG	2.1 (4.1%)	0.1 (0.2%)

Alternative 5: Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
AUG	W	2 (3.8%)	0 (0%)
	AN	2.1 (3.9%)	0.2 (0.3%)
	BN	2.7 (5.3%)	0.4 (0.7%)
	D	3.1 (5.9%)	0.1 (0.2%)
	C	7 (12.4%)	-0.5 (-0.8%)
	AVG	3.1 (5.9%)	0 (0.1%)
SEP	W	1.9 (3.6%)	0.3 (0.5%)
	AN	2.4 (4.6%)	0.2 (0.4%)
	BN	3.5 (6.6%)	0.9 (1.5%)
	D	4.1 (7.5%)	-0.3 (-0.5%)
	C	5.6 (9.3%)	-0.3 (-0.5%)
	AVG	3.3 (6%)	0.1 (0.3%)
OCT	W	3.3 (6.2%)	0.3 (0.5%)
	AN	3.3 (6.2%)	0.6 (1%)
	BN	3.5 (6.4%)	0.4 (0.8%)
	D	3.8 (6.9%)	0.3 (0.5%)
	C	3.6 (6.5%)	-0.1 (-0.2%)
	AVG	3.5 (6.4%)	0.3 (0.5%)
NOV	W	2.3 (4.5%)	0.1 (0.2%)
	AN	2.4 (4.6%)	0.2 (0.4%)
	BN	2.7 (5.1%)	0.3 (0.5%)
	D	2.5 (4.7%)	0.2 (0.3%)
	C	2.4 (4.5%)	-0.1 (-0.1%)
	AVG	2.5 (4.6%)	0.1 (0.2%)
DEC	W	1.2 (2.5%)	0 (0%)
	AN	1.7 (3.5%)	0 (-0.1%)
	BN	2 (3.9%)	-0.1 (-0.1%)
	D	1.9 (3.9%)	0 (0%)
	C	1.9 (3.7%)	-0.1 (-0.2%)
	AVG	1.7 (3.4%)	0 (-0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.5.2 Sacramento River at Jelly’s Ferry**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
3 **Sacramento River at Jelly’s Ferry, Year-Round**

Alternative 5: Sacramento River at Jelly’s Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	45	46	47
	D	45	47	47
	C	45	47	47
	AVG	45	47	47
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	49	49
	AN	49	51	51
	BN	49	51	51
	D	50	51	51
	C	50	52	52
	AVG	49	51	51
APR	W	51	53	53
	AN	53	55	55
	BN	53	54	54
	D	52	54	54
	C	52	54	54
	AVG	52	54	54
MAY	W	54	57	57
	AN	55	57	56
	BN	54	57	57
	D	54	56	55
	C	55	57	57
	AVG	54	57	56
JUN	W	55	56	56
	AN	55	56	56
	BN	54	56	56
	D	54	56	56
	C	56	58	58
	AVG	55	56	56
JUL	W	56	57	57
	AN	55	56	56
	BN	55	56	57
	D	55	57	58
	C	57	62	62
	AVG	55	57	58

Alternative 5: Sacramento River at Jelly's Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
AUG	W	56	59	58
	AN	56	58	58
	BN	56	58	59
	D	56	59	60
	C	59	67	66
	AVG	57	60	60
SEP	W	56	57	57
	AN	57	59	59
	BN	57	60	61
	D	58	63	63
	C	61	67	66
	AVG	58	61	61
OCT	W	54	57	57
	AN	54	57	58
	BN	55	57	58
	D	55	58	58
	C	56	60	60
	AVG	55	58	58
NOV	W	51	53	53
	AN	51	53	53
	BN	51	54	54
	D	51	54	54
	C	52	55	54
	AVG	51	53	53
DEC	W	47	48	48
	AN	47	48	48
	BN	47	49	49
	D	47	49	49
	C	47	49	49
	AVG	47	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Jelly’s Ferry, Year-Round**

Alternative 5: Sacramento River at Jelly’s Ferry			
Month	WYT	EXISTING CONDITIONS	
		vs. A5_LLT	NAA vs. A5_LLT
JAN	W	1.4 (3.2%)	0 (0%)
	AN	1.5 (3.4%)	0 (0%)
	BN	1.8 (4%)	0.1 (0.2%)
	D	1.8 (4%)	-0.1 (-0.1%)
	C	2.1 (4.6%)	-0.1 (-0.2%)
	AVG	1.7 (3.7%)	0 (0%)
FEB	W	1.6 (3.4%)	0 (0%)
	AN	1.6 (3.4%)	0 (0%)
	BN	1.7 (3.6%)	0 (0%)
	D	1.9 (4%)	0 (0%)
	C	2 (4.2%)	0 (0%)
	AVG	1.7 (3.7%)	0 (0%)
MAR	W	1.4 (3%)	0 (0%)
	AN	1.6 (3.2%)	0 (0%)
	BN	1.7 (3.4%)	0 (0%)
	D	1.7 (3.3%)	0 (0%)
	C	1.6 (3.3%)	-0.2 (-0.3%)
	AVG	1.6 (3.2%)	0 (0%)
APR	W	1.8 (3.5%)	0 (0%)
	AN	1.8 (3.4%)	-0.1 (-0.2%)
	BN	1.6 (3.1%)	-0.1 (-0.2%)
	D	1.7 (3.3%)	-0.1 (-0.2%)
	C	2 (3.8%)	-0.1 (-0.1%)
	AVG	1.8 (3.4%)	-0.1 (-0.1%)
MAY	W	2.8 (5.1%)	-0.1 (-0.3%)
	AN	1.2 (2.2%)	-0.5 (-0.8%)
	BN	2 (3.8%)	-0.1 (-0.1%)
	D	1.4 (2.5%)	-0.4 (-0.8%)
	C	2 (3.6%)	0 (0%)
	AVG	2 (3.7%)	-0.2 (-0.4%)
JUN	W	1.1 (2%)	-0.3 (-0.6%)
	AN	1.1 (2%)	-0.2 (-0.4%)
	BN	1.2 (2.3%)	-0.3 (-0.6%)
	D	1.8 (3.3%)	-0.2 (-0.3%)
	C	2.4 (4.2%)	0.3 (0.6%)
	AVG	1.5 (2.7%)	-0.2 (-0.3%)
JUL	W	1 (1.9%)	0.1 (0.1%)
	AN	1.5 (2.7%)	0 (0.1%)
	BN	1.8 (3.3%)	0.1 (0.3%)
	D	2.8 (5.1%)	0.4 (0.7%)
	C	4.7 (8.1%)	-0.4 (-0.6%)
	AVG	2.2 (3.9%)	0.1 (0.2%)

Alternative 5: Sacramento River at Jelly's Ferry			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
AUG	W	2.4 (4.2%)	-0.1 (-0.2%)
	AN	2.1 (3.8%)	0.2 (0.4%)
	BN	3 (5.4%)	0.4 (0.6%)
	D	3.7 (6.5%)	0.6 (1%)
	C	6.8 (11.5%)	-0.3 (-0.5%)
	AVG	3.4 (6%)	0.1 (0.2%)
SEP	W	1.3 (2.4%)	0.1 (0.2%)
	AN	1.5 (2.7%)	0.2 (0.4%)
	BN	3.9 (6.9%)	1.1 (1.8%)
	D	4.8 (8.2%)	-0.1 (-0.2%)
	C	5 (8.1%)	-0.3 (-0.5%)
	AVG	3.1 (5.4%)	0.2 (0.3%)
OCT	W	3 (5.6%)	0.2 (0.3%)
	AN	3.1 (5.6%)	0.5 (0.9%)
	BN	3.2 (5.9%)	0.3 (0.5%)
	D	3.3 (6%)	0.1 (0.2%)
	C	3.3 (5.9%)	-0.1 (-0.1%)
	AVG	3.2 (5.8%)	0.2 (0.3%)
NOV	W	2.3 (4.5%)	0 (-0.1%)
	AN	2.2 (4.3%)	0 (0%)
	BN	2.5 (4.9%)	0 (0%)
	D	2.3 (4.4%)	0 (0%)
	C	2.3 (4.3%)	-0.1 (-0.2%)
	AVG	2.3 (4.5%)	0 (-0.1%)
DEC	W	1.1 (2.3%)	-0.1 (-0.2%)
	AN	1.8 (3.9%)	0 (0%)
	BN	1.9 (4%)	0 (-0.1%)
	D	2 (4.3%)	0.1 (0.2%)
	C	1.9 (4.1%)	0 (0%)
	AVG	1.7 (3.5%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.5.3 Sacramento River at Bend Bridge**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
3 **Sacramento River at Bend Bridge, Year-Round**

Alternative 5: Sacramento River at Bend Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	45	46	46
	D	45	47	47
	C	45	47	47
	AVG	45	47	47
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	50	50
	AN	49	51	51
	BN	49	51	51
	D	50	52	52
	C	50	52	52
	AVG	49	51	51
APR	W	51	53	53
	AN	53	55	55
	BN	53	55	55
	D	53	55	55
	C	52	54	54
	AVG	52	54	54
MAY	W	54	57	57
	AN	55	57	57
	BN	55	57	57
	D	55	56	56
	C	55	57	57
	AVG	55	57	57
JUN	W	56	57	57
	AN	55	57	56
	BN	55	57	56
	D	55	57	57
	C	57	59	59
	AVG	55	57	57
JUL	W	56	57	57
	AN	55	57	57
	BN	55	57	57
	D	56	58	58
	C	58	63	63
	AVG	56	58	58

Alternative 5: Sacramento River at Bend Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL
AUG	W	57	59	59
	AN	57	59	59
	BN	56	59	59
	D	57	60	61
	C	60	67	67
	AVG	57	60	61
SEP	W	57	58	58
	AN	58	59	59
	BN	58	60	62
	D	58	63	63
	C	62	67	67
	AVG	58	61	61
OCT	W	54	57	57
	AN	55	57	58
	BN	55	58	58
	D	55	58	58
	C	56	60	60
	AVG	55	58	58
NOV	W	51	53	53
	AN	51	53	53
	BN	51	53	53
	D	51	54	54
	C	52	54	54
	AVG	51	53	53
DEC	W	47	48	48
	AN	46	48	48
	BN	47	49	49
	D	46	48	49
	C	47	49	49
	AVG	47	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Bend Bridge, Year-Round**

Alternative 5: Sacramento River at Bend Bridge			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
JAN	W	1.5 (3.2%)	0 (0%)
	AN	1.6 (3.5%)	0 (0%)
	BN	1.8 (4.1%)	0.1 (0.2%)
	D	1.8 (4.1%)	-0.1 (-0.1%)
	C	2.1 (4.8%)	-0.1 (-0.2%)
	AVG	1.7 (3.8%)	0 (0%)
FEB	W	1.6 (3.4%)	0 (0%)
	AN	1.6 (3.5%)	0 (0%)
	BN	1.7 (3.7%)	0 (0%)
	D	1.9 (4.1%)	0 (0%)
	C	2 (4.3%)	0 (0%)
	AVG	1.7 (3.8%)	0 (0%)
MAR	W	1.5 (3%)	0 (0%)
	AN	1.6 (3.2%)	0 (0%)
	BN	1.7 (3.5%)	0 (0%)
	D	1.7 (3.4%)	0 (0%)
	C	1.7 (3.3%)	-0.2 (-0.3%)
	AVG	1.6 (3.3%)	0 (0%)
APR	W	1.8 (3.5%)	0 (0%)
	AN	1.8 (3.4%)	-0.1 (-0.2%)
	BN	1.7 (3.2%)	-0.1 (-0.2%)
	D	1.8 (3.4%)	-0.1 (-0.2%)
	C	2 (3.8%)	-0.1 (-0.1%)
	AVG	1.8 (3.4%)	-0.1 (-0.1%)
MAY	W	2.8 (5.2%)	-0.1 (-0.3%)
	AN	1.2 (2.2%)	-0.5 (-0.8%)
	BN	2.1 (3.8%)	-0.1 (-0.2%)
	D	1.4 (2.5%)	-0.5 (-0.8%)
	C	2 (3.5%)	0 (0%)
	AVG	2 (3.7%)	-0.2 (-0.4%)
JUN	W	1.1 (2%)	-0.3 (-0.6%)
	AN	1.1 (2.1%)	-0.3 (-0.4%)
	BN	1.3 (2.3%)	-0.4 (-0.6%)
	D	1.8 (3.2%)	-0.2 (-0.3%)
	C	2.4 (4.2%)	0.4 (0.6%)
	AVG	1.5 (2.7%)	-0.2 (-0.3%)
JUL	W	1.1 (1.9%)	0.1 (0.1%)
	AN	1.5 (2.7%)	0 (0.1%)
	BN	1.8 (3.3%)	0.1 (0.2%)
	D	2.8 (5.1%)	0.4 (0.7%)
	C	4.7 (8%)	-0.3 (-0.5%)
	AVG	2.2 (3.9%)	0.1 (0.2%)

Alternative 5: Sacramento River at Bend Bridge			
Month	WYT	EXISTING CONDITIONS	
		vs. A5_LLT	NAA vs. A5_LLT
AUG	W	2.4 (4.3%)	-0.2 (-0.3%)
	AN	2.2 (3.8%)	0.2 (0.4%)
	BN	3.1 (5.4%)	0.4 (0.6%)
	D	3.8 (6.6%)	0.7 (1.1%)
	C	6.8 (11.3%)	-0.3 (-0.4%)
	AVG	3.4 (6%)	0.2 (0.2%)
SEP	W	1.3 (2.3%)	0.1 (0.1%)
	AN	1.5 (2.5%)	0.2 (0.4%)
	BN	4 (6.9%)	1.1 (1.8%)
	D	4.8 (8.3%)	-0.1 (-0.1%)
	C	4.9 (8%)	-0.3 (-0.5%)
	AVG	3.1 (5.3%)	0.2 (0.3%)
OCT	W	3 (5.5%)	0.2 (0.3%)
	AN	3 (5.6%)	0.5 (0.8%)
	BN	3.2 (5.9%)	0.3 (0.5%)
	D	3.2 (5.9%)	0.1 (0.2%)
	C	3.3 (5.9%)	-0.1 (-0.1%)
	AVG	3.1 (5.7%)	0.2 (0.3%)
NOV	W	2.3 (4.5%)	0 (-0.1%)
	AN	2.2 (4.4%)	0 (-0.1%)
	BN	2.5 (4.9%)	0 (-0.1%)
	D	2.3 (4.5%)	0 (0%)
	C	2.3 (4.4%)	-0.1 (-0.2%)
	AVG	2.3 (4.5%)	0 (-0.1%)
DEC	W	1.1 (2.4%)	-0.1 (-0.2%)
	AN	1.8 (4%)	0 (0%)
	BN	1.9 (4.1%)	0 (-0.1%)
	D	2.1 (4.5%)	0.1 (0.3%)
	C	2 (4.2%)	0 (0%)
	AVG	1.7 (3.6%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.5.4 Sacramento River at Red Bluff Diversion Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
3 **Sacramento River at Red Bluff Diversion Dam, Year-Round**

Alternative 5: Sacramento River at Red Bluff Diversion Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	45	46	46
	AN	45	47	47
	BN	44	46	46
	D	44	46	46
	C	44	47	47
	AVG	45	46	46
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	50	50
	AN	49	51	51
	BN	49	51	51
	D	50	52	52
	C	51	53	52
	AVG	49	51	51
APR	W	52	54	54
	AN	53	55	55
	BN	54	55	55
	D	54	55	55
	C	53	55	55
	AVG	53	55	55
MAY	W	55	58	58
	AN	56	58	58
	BN	56	58	58
	D	56	58	57
	C	57	59	59
	AVG	56	58	58
JUN	W	57	59	58
	AN	57	58	58
	BN	57	58	58
	D	57	59	59
	C	58	60	60
	AVG	57	59	59
JUL	W	58	59	59
	AN	57	59	59
	BN	57	59	59
	D	57	60	60
	C	60	64	64
	AVG	58	60	60

Alternative 5: Sacramento River at Red Bluff Diversion Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL
AUG	W	58	61	61
	AN	59	61	61
	BN	58	61	61
	D	59	62	62
	C	61	68	68
	AVG	59	62	62
SEP	W	58	59	59
	AN	59	60	61
	BN	59	62	63
	D	59	64	64
	C	63	68	67
	AVG	59	62	62
OCT	W	55	57	58
	AN	55	57	58
	BN	55	58	58
	D	55	59	59
	C	56	60	60
	AVG	55	58	58
NOV	W	50	53	53
	AN	50	53	53
	BN	51	53	53
	D	51	53	53
	C	52	54	54
	AVG	51	53	53
DEC	W	46	48	48
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	46	48	48
	AVG	46	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Red Bluff Diversion Dam, Year-Round**

Alternative 5: Sacramento River at Red Bluff Diversion Dam			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
JAN	W	1.5 (3.3%)	0 (0%)
	AN	1.6 (3.6%)	0 (0%)
	BN	1.9 (4.2%)	0.1 (0.2%)
	D	1.9 (4.3%)	-0.1 (-0.1%)
	C	2.2 (5%)	-0.1 (-0.2%)
	AVG	1.8 (4%)	0 (0%)
FEB	W	1.6 (3.5%)	0 (0%)
	AN	1.6 (3.6%)	0 (0%)
	BN	1.8 (3.8%)	0 (0%)
	D	2 (4.2%)	0 (0%)
	C	2.1 (4.5%)	0 (0%)
	AVG	1.8 (3.9%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0%)
	AN	1.6 (3.3%)	0 (0%)
	BN	1.8 (3.6%)	0 (0%)
	D	1.7 (3.4%)	0 (0%)
	C	1.7 (3.4%)	-0.2 (-0.3%)
	AVG	1.6 (3.3%)	0 (0%)
APR	W	1.8 (3.5%)	0 (0%)
	AN	1.9 (3.5%)	-0.1 (-0.2%)
	BN	1.7 (3.2%)	-0.1 (-0.2%)
	D	1.8 (3.4%)	-0.1 (-0.2%)
	C	2 (3.7%)	-0.1 (-0.1%)
	AVG	1.8 (3.5%)	-0.1 (-0.1%)
MAY	W	2.9 (5.3%)	-0.1 (-0.3%)
	AN	1.3 (2.3%)	-0.5 (-0.9%)
	BN	2.2 (3.9%)	-0.1 (-0.2%)
	D	1.4 (2.5%)	-0.5 (-0.9%)
	C	2 (3.5%)	0 (0%)
	AVG	2.1 (3.7%)	-0.2 (-0.4%)
JUN	W	1.3 (2.2%)	-0.4 (-0.6%)
	AN	1.2 (2.2%)	-0.3 (-0.5%)
	BN	1.4 (2.4%)	-0.4 (-0.7%)
	D	1.8 (3.2%)	-0.2 (-0.4%)
	C	2.4 (4.1%)	0.4 (0.6%)
	AVG	1.6 (2.8%)	-0.2 (-0.4%)
JUL	W	1.2 (2%)	0.1 (0.1%)
	AN	1.5 (2.7%)	0 (0%)
	BN	1.9 (3.4%)	0.1 (0.2%)
	D	2.8 (5%)	0.4 (0.6%)
	C	4.6 (7.7%)	-0.3 (-0.4%)
	AVG	2.2 (3.8%)	0.1 (0.1%)

Alternative 5: Sacramento River at Red Bluff Diversion Dam			
Month	WYT	EXISTING CONDITIONS	NAA vs. A5_LLT
		vs. A5_LLT	
AUG	W	2.6 (4.4%)	-0.2 (-0.3%)
	AN	2.3 (3.8%)	0.2 (0.4%)
	BN	3.1 (5.4%)	0.4 (0.6%)
	D	3.9 (6.7%)	0.8 (1.3%)
	C	6.7 (11%)	-0.2 (-0.3%)
	AVG	3.5 (6%)	0.2 (0.3%)
SEP	W	1.2 (2.1%)	0 (0%)
	AN	1.3 (2.3%)	0.2 (0.4%)
	BN	4.1 (7%)	1.1 (1.8%)
	D	5 (8.4%)	0 (0%)
	C	4.9 (7.8%)	-0.4 (-0.5%)
	AVG	3.1 (5.2%)	0.2 (0.3%)
OCT	W	3 (5.4%)	0.2 (0.3%)
	AN	3 (5.5%)	0.4 (0.8%)
	BN	3.2 (5.8%)	0.2 (0.4%)
	D	3.2 (5.7%)	0.1 (0.1%)
	C	3.3 (5.9%)	0 (-0.1%)
	AVG	3.1 (5.6%)	0.2 (0.3%)
NOV	W	2.3 (4.6%)	0 (-0.1%)
	AN	2.3 (4.5%)	0 (-0.1%)
	BN	2.5 (5%)	-0.1 (-0.1%)
	D	2.3 (4.6%)	0 (0%)
	C	2.3 (4.5%)	-0.1 (-0.2%)
	AVG	2.4 (4.6%)	-0.1 (-0.1%)
DEC	W	1.2 (2.5%)	-0.1 (-0.2%)
	AN	1.9 (4.2%)	0 (0%)
	BN	1.9 (4.2%)	-0.1 (-0.1%)
	D	2.1 (4.6%)	0.1 (0.3%)
	C	2.1 (4.4%)	0 (0%)
	AVG	1.8 (3.8%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.5.5 Sacramento River at Hamilton City**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
3 **Sacramento River at Hamilton City, Year-Round**

Alternative 5: Sacramento River at Hamilton City				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	44	46	46
	D	44	46	46
	C	44	47	47
	AVG	45	47	47
FEB	W	46	48	48
	AN	47	48	48
	BN	46	48	48
	D	47	49	49
	C	48	50	50
	AVG	47	49	49
MAR	W	49	51	51
	AN	51	52	52
	BN	51	53	53
	D	52	54	54
	C	52	54	54
	AVG	51	52	52
APR	W	54	55	55
	AN	55	57	57
	BN	56	58	58
	D	56	58	58
	C	56	58	58
	AVG	55	57	57
MAY	W	58	62	61
	AN	60	62	61
	BN	59	62	62
	D	59	61	60
	C	60	62	62
	AVG	59	62	61
JUN	W	61	63	62
	AN	61	62	62
	BN	60	62	62
	D	60	63	62
	C	61	63	64
	AVG	61	63	62
JUL	W	62	63	63
	AN	61	63	63
	BN	61	63	63
	D	61	64	64
	C	63	68	68
	AVG	62	64	64

Alternative 5: Sacramento River at Hamilton City				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
AUG	W	62	65	65
	AN	62	64	65
	BN	62	65	65
	D	62	65	66
	C	65	71	71
	AVG	62	66	66
SEP	W	60	61	61
	AN	62	63	63
	BN	62	65	66
	D	62	67	67
	C	64	69	69
	AVG	62	65	65
OCT	W	55	58	58
	AN	56	58	59
	BN	56	59	59
	D	56	59	59
	C	57	60	60
	AVG	56	59	59
NOV	W	50	53	52
	AN	50	53	53
	BN	50	53	53
	D	51	53	53
	C	52	54	54
	AVG	51	53	53
DEC	W	46	47	47
	AN	46	48	48
	BN	45	48	47
	D	45	48	48
	C	45	48	48
	AVG	46	47	47

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Hamilton City, Year-Round**

Alternative 5: Sacramento River at Hamilton City			
Month	WYT	EXISTING CONDITIONS	
		vs. A5_LL1	NAA vs. A5_LL1
JAN	W	1.6 (3.6%)	0 (0%)
	AN	1.8 (3.9%)	0 (0%)
	BN	2 (4.5%)	0.1 (0.1%)
	D	2.1 (4.8%)	0 (-0.1%)
	C	2.4 (5.4%)	-0.1 (-0.2%)
	AVG	1.9 (4.3%)	0 (0%)
FEB	W	1.7 (3.6%)	0 (0%)
	AN	1.7 (3.7%)	0 (0%)
	BN	1.9 (4%)	0 (0%)
	D	2.1 (4.4%)	0 (0%)
	C	2.3 (4.7%)	0 (0%)
	AVG	1.9 (4.1%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0%)
	AN	1.7 (3.3%)	0 (0%)
	BN	1.9 (3.7%)	0 (0%)
	D	1.8 (3.5%)	0 (0%)
	C	1.8 (3.4%)	-0.1 (-0.3%)
	AVG	1.7 (3.4%)	0 (0%)
APR	W	1.9 (3.5%)	0 (0%)
	AN	2 (3.6%)	-0.1 (-0.2%)
	BN	1.9 (3.3%)	-0.2 (-0.3%)
	D	2 (3.5%)	-0.1 (-0.1%)
	C	2 (3.6%)	-0.1 (-0.1%)
	AVG	1.9 (3.5%)	-0.1 (-0.1%)
MAY	W	3.1 (5.3%)	-0.2 (-0.2%)
	AN	1.4 (2.4%)	-0.6 (-0.9%)
	BN	2.3 (3.9%)	-0.2 (-0.3%)
	D	1.5 (2.5%)	-0.6 (-0.9%)
	C	2 (3.4%)	0 (0%)
	AVG	2.2 (3.7%)	-0.3 (-0.5%)
JUN	W	1.5 (2.5%)	-0.4 (-0.7%)
	AN	1.4 (2.3%)	-0.3 (-0.5%)
	BN	1.5 (2.5%)	-0.5 (-0.8%)
	D	1.8 (3%)	-0.3 (-0.5%)
	C	2.5 (4.1%)	0.4 (0.6%)
	AVG	1.7 (2.8%)	-0.3 (-0.5%)
JUL	W	1.3 (2.2%)	0 (0.1%)
	AN	1.6 (2.7%)	0 (0%)
	BN	2.1 (3.5%)	0 (0.1%)
	D	2.9 (4.7%)	0.4 (0.6%)
	C	4.6 (7.4%)	-0.2 (-0.2%)
	AVG	2.3 (3.8%)	0.1 (0.1%)

Alternative 5: Sacramento River at Hamilton City			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
AUG	W	2.9 (4.7%)	-0.3 (-0.5%)
	AN	2.4 (3.8%)	0.3 (0.4%)
	BN	3.3 (5.4%)	0.4 (0.5%)
	D	4.3 (6.8%)	1.1 (1.7%)
	C	6.5 (10.1%)	-0.1 (-0.1%)
	AVG	3.7 (6%)	0.2 (0.3%)
SEP	W	1 (1.6%)	-0.1 (-0.2%)
	AN	1 (1.6%)	0.2 (0.3%)
	BN	4.2 (6.9%)	1 (1.6%)
	D	5.2 (8.3%)	0 (0.1%)
	C	4.6 (7.1%)	-0.4 (-0.6%)
	AVG	3 (4.8%)	0.1 (0.2%)
OCT	W	2.9 (5.1%)	0.1 (0.2%)
	AN	3 (5.3%)	0.3 (0.5%)
	BN	3 (5.4%)	0.1 (0.2%)
	D	3 (5.3%)	0 (0.1%)
	C	3.3 (5.7%)	0 (0%)
	AVG	3 (5.3%)	0.1 (0.2%)
NOV	W	2.4 (4.7%)	0 (-0.1%)
	AN	2.4 (4.8%)	0 (0%)
	BN	2.6 (5.1%)	-0.1 (-0.1%)
	D	2.4 (4.7%)	0 (0%)
	C	2.5 (4.8%)	-0.1 (-0.2%)
	AVG	2.4 (4.8%)	0 (-0.1%)
DEC	W	1.4 (3%)	-0.1 (-0.2%)
	AN	2.1 (4.5%)	0 (0%)
	BN	2.1 (4.6%)	0 (-0.1%)
	D	2.3 (5%)	0.1 (0.3%)
	C	2.2 (4.9%)	0 (0%)
	AVG	1.9 (4.2%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.5.6 Trinity River below Lewiston Reservoir**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
3 **Trinity River below Lewiston Reservoir, Year-Round**

Alternative 5: Trinity River below Lewiston Reservoir				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	41	43	43
	AN	38	41	41
	BN	39	41	41
	D	39	41	42
	C	39	42	42
	AVG	39	42	42
FEB	W	43	45	45
	AN	43	45	45
	BN	42	44	44
	D	42	45	45
	C	43	45	46
	AVG	43	45	45
MAR	W	46	48	48
	AN	47	49	49
	BN	47	48	48
	D	48	50	50
	C	48	50	50
	AVG	47	49	49
APR	W	49	51	51
	AN	50	52	52
	BN	51	53	53
	D	51	53	53
	C	50	52	52
	AVG	50	52	52
MAY	W	46	48	48
	AN	46	48	48
	BN	46	49	49
	D	47	49	49
	C	49	52	52
	AVG	47	49	49
JUN	W	48	51	51
	AN	51	52	52
	BN	52	53	53
	D	52	54	55
	C	56	59	59
	AVG	51	53	53
JUL	W	51	55	54
	AN	52	54	53
	BN	52	55	54
	D	51	54	53
	C	53	60	61
	AVG	51	55	55

Alternative 5: Trinity River below Lewiston Reservoir				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL
AUG	W	52	54	54
	AN	51	53	53
	BN	52	55	55
	D	50	54	55
	C	54	63	62
	AVG	52	56	55
SEP	W	49	51	51
	AN	50	51	52
	BN	51	55	55
	D	50	56	56
	C	57	62	62
	AVG	51	54	55
OCT	W	48	51	51
	AN	49	52	52
	BN	50	53	53
	D	50	52	52
	C	51	56	55
	AVG	49	52	52
NOV	W	44	47	47
	AN	45	47	48
	BN	45	47	48
	D	44	47	47
	C	46	48	48
	AVG	45	47	47
DEC	W	41	43	43
	AN	39	43	43
	BN	40	42	42
	D	40	42	42
	C	39	41	41
	AVG	40	42	42

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River below Lewiston Reservoir, Year-Round**

Alternative 5: Trinity River below Lewiston Reservoir			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
JAN	W	2 (5%)	0 (-0.1%)
	AN	2.4 (6.2%)	-0.1 (-0.2%)
	BN	1.8 (4.7%)	-0.3 (-0.6%)
	D	3 (7.7%)	0.3 (0.6%)
	C	2.5 (6.4%)	0.2 (0.5%)
	AVG	2.3 (5.9%)	0 (0.1%)
FEB	W	2.4 (5.6%)	0 (0%)
	AN	2.2 (5.2%)	0 (-0.1%)
	BN	2.2 (5.1%)	0 (0%)
	D	2.3 (5.5%)	0.1 (0.1%)
	C	2.4 (5.5%)	0.2 (0.4%)
	AVG	2.3 (5.4%)	0 (0.1%)
MAR	W	2 (4.3%)	0 (0%)
	AN	1.6 (3.5%)	-0.1 (-0.1%)
	BN	1.8 (4%)	0 (0%)
	D	1.4 (3%)	-0.1 (-0.1%)
	C	2.1 (4.4%)	0 (0%)
	AVG	1.8 (3.8%)	0 (0%)
APR	W	1.9 (3.8%)	0.4 (0.7%)
	AN	2.4 (4.9%)	0.5 (0.9%)
	BN	2.5 (4.9%)	0 (0%)
	D	2.2 (4.3%)	0 (-0.1%)
	C	2.2 (4.4%)	0 (0.1%)
	AVG	2.2 (4.3%)	0.2 (0.3%)
MAY	W	2.5 (5.4%)	0 (0.1%)
	AN	2.3 (5%)	0 (-0.1%)
	BN	2.2 (4.7%)	0 (0%)
	D	2.5 (5.4%)	0 (-0.1%)
	C	3.2 (6.5%)	0 (0.1%)
	AVG	2.5 (5.4%)	0 (0%)
JUN	W	2.2 (4.6%)	0 (-0.1%)
	AN	1.1 (2.1%)	0 (0%)
	BN	1.8 (3.5%)	0 (-0.1%)
	D	2.7 (5.2%)	0.4 (0.8%)
	C	3.5 (6.3%)	-0.2 (-0.4%)
	AVG	2.3 (4.5%)	0 (0.1%)
JUL	W	3.1 (6.1%)	-0.7 (-1.3%)
	AN	1.4 (2.7%)	-0.6 (-1.1%)
	BN	2.5 (4.7%)	-0.8 (-1.4%)
	D	2.3 (4.5%)	-0.4 (-0.7%)
	C	8.2 (15.6%)	1.3 (2.2%)
	AVG	3.3 (6.5%)	-0.3 (-0.6%)

Alternative 5: Trinity River below Lewiston Reservoir			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
AUG	W	1.6 (3%)	-0.5 (-0.9%)
	AN	1.9 (3.8%)	-0.3 (-0.5%)
	BN	3.2 (6.1%)	0.2 (0.4%)
	D	4.5 (9%)	0.4 (0.8%)
	C	8.4 (15.6%)	-1 (-1.6%)
	AVG	3.6 (6.9%)	-0.2 (-0.4%)
SEP	W	1.9 (3.8%)	0 (-0.1%)
	AN	2 (4%)	0.3 (0.5%)
	BN	3.7 (7.2%)	0.2 (0.3%)
	D	6.2 (12.4%)	0.4 (0.6%)
	C	5.7 (10.2%)	0.1 (0.1%)
	AVG	3.7 (7.4%)	0.1 (0.3%)
OCT	W	3.1 (6.4%)	-0.2 (-0.3%)
	AN	2.3 (4.6%)	-0.1 (-0.2%)
	BN	2.9 (5.9%)	0.1 (0.1%)
	D	2.5 (5%)	0.3 (0.5%)
	C	3.8 (7.4%)	-0.6 (-1.2%)
	AVG	2.9 (5.9%)	-0.1 (-0.2%)
NOV	W	2.7 (6.2%)	0.1 (0.3%)
	AN	2.9 (6.5%)	0.7 (1.5%)
	BN	2.8 (6.2%)	0.2 (0.4%)
	D	2.7 (6.1%)	0 (0%)
	C	2.1 (4.6%)	0.1 (0.1%)
	AVG	2.7 (6%)	0.2 (0.4%)
DEC	W	1.9 (4.7%)	-0.1 (-0.3%)
	AN	3.4 (8.7%)	-0.2 (-0.5%)
	BN	2.5 (6.2%)	0 (-0.1%)
	D	2.2 (5.4%)	0.3 (0.8%)
	C	2.1 (5.3%)	0.3 (0.8%)
	AVG	2.3 (5.7%)	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.

1 **11D.5.7 Trinity River at Douglas City**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
3 **Trinity River at Douglas City, Year-Round**

Alternative 5: Trinity River at Douglas City				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	40	42	42
	AN	39	40	40
	BN	38	40	40
	D	38	40	40
	C	39	41	41
	AVG	39	41	41
FEB	W	43	45	45
	AN	43	45	45
	BN	42	44	44
	D	43	44	44
	C	43	45	45
	AVG	43	45	45
MAR	W	46	47	47
	AN	47	48	48
	BN	47	48	48
	D	48	49	49
	C	48	49	49
	AVG	47	48	48
APR	W	51	52	52
	AN	52	53	54
	BN	52	54	54
	D	53	54	54
	C	52	54	54
	AVG	52	53	53
MAY	W	48	50	50
	AN	48	50	50
	BN	49	51	51
	D	49	51	51
	C	52	55	55
	AVG	49	51	51
JUN	W	51	54	54
	AN	54	55	55
	BN	55	57	57
	D	57	59	60
	C	60	63	63
	AVG	55	57	57
JUL	W	57	61	60
	AN	58	60	60
	BN	59	62	61
	D	59	62	62
	C	62	67	68
	AVG	59	62	62

Alternative 5: Trinity River at Douglas City				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
AUG	W	60	62	62
	AN	59	61	61
	BN	60	63	63
	D	58	62	62
	C	61	67	66
	AVG	60	63	63
SEP	W	55	57	57
	AN	55	57	57
	BN	56	59	59
	D	55	60	60
	C	59	64	64
	AVG	56	59	59
OCT	W	50	53	53
	AN	51	53	53
	BN	52	54	54
	D	51	53	53
	C	53	56	55
	AVG	51	54	54
NOV	W	44	46	46
	AN	45	47	47
	BN	45	47	47
	D	44	46	46
	C	46	47	48
	AVG	44	47	47
DEC	W	41	43	43
	AN	40	42	42
	BN	39	42	42
	D	40	42	42
	C	39	41	41
	AVG	40	42	42

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River at Douglas City, Year-Round**

Alternative 5: Trinity River at Douglas City			
Month	WYT	EXISTING CONDITIONS	
		vs. A5_LL1	NAA vs. A5_LL1
JAN	W	1.5 (3.7%)	-0.1 (-0.2%)
	AN	1.6 (4.1%)	0 (-0.1%)
	BN	1.4 (3.6%)	-0.1 (-0.3%)
	D	2.3 (6%)	0.1 (0.3%)
	C	2.2 (5.7%)	0.2 (0.4%)
	AVG	1.8 (4.5%)	0 (0%)
FEB	W	1.6 (3.7%)	0 (0%)
	AN	1.5 (3.5%)	0 (0%)
	BN	1.6 (3.8%)	0 (0%)
	D	1.6 (3.8%)	0 (0.1%)
	C	1.9 (4.4%)	0.1 (0.2%)
	AVG	1.6 (3.8%)	0 (0%)
MAR	W	1.2 (2.6%)	0 (0%)
	AN	1 (2.1%)	0 (0%)
	BN	1.1 (2.4%)	0 (0%)
	D	1 (2.1%)	0 (0%)
	C	1.5 (3.2%)	0 (0%)
	AVG	1.2 (2.5%)	0 (0%)
APR	W	1.4 (2.7%)	0.1 (0.2%)
	AN	1.6 (3.2%)	0.3 (0.5%)
	BN	1.7 (3.2%)	0 (0%)
	D	1.7 (3.2%)	0 (0%)
	C	1.8 (3.5%)	0 (0%)
	AVG	1.6 (3.1%)	0.1 (0.1%)
MAY	W	2.4 (4.9%)	0 (0.1%)
	AN	2.2 (4.7%)	0 (0%)
	BN	2.1 (4.3%)	0 (0%)
	D	2.4 (5%)	0 (-0.1%)
	C	3 (5.9%)	0 (0.1%)
	AVG	2.4 (4.9%)	0 (0%)
JUN	W	2.1 (4.1%)	0 (0%)
	AN	1 (1.8%)	0 (0%)
	BN	1.8 (3.3%)	0 (0%)
	D	2.6 (4.6%)	0.3 (0.4%)
	C	3 (5%)	-0.1 (-0.2%)
	AVG	2.2 (3.9%)	0 (0%)
JUL	W	3.3 (5.7%)	-0.5 (-0.8%)
	AN	1.8 (3.1%)	-0.4 (-0.7%)
	BN	2.2 (3.7%)	-0.5 (-0.8%)
	D	2.5 (4.2%)	-0.2 (-0.3%)
	C	5.6 (9.1%)	1 (1.5%)
	AVG	3.1 (5.2%)	-0.2 (-0.3%)

Alternative 5: Trinity River at Douglas City			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
AUG	W	2.3 (3.8%)	-0.3 (-0.4%)
	AN	2.5 (4.2%)	-0.2 (-0.3%)
	BN	3.1 (5.3%)	0.1 (0.2%)
	D	4 (6.8%)	0.3 (0.4%)
	C	5.8 (9.5%)	-0.5 (-0.7%)
	AVG	3.3 (5.6%)	-0.1 (-0.2%)
SEP	W	2.4 (4.4%)	0 (0%)
	AN	2.5 (4.5%)	0.2 (0.3%)
	BN	3.5 (6.2%)	0.1 (0.2%)
	D	4.9 (8.9%)	0.2 (0.4%)
	C	5.1 (8.6%)	-0.2 (-0.3%)
	AVG	3.6 (6.4%)	0.1 (0.1%)
OCT	W	2.5 (4.9%)	-0.1 (-0.2%)
	AN	1.9 (3.7%)	0 (0%)
	BN	2.4 (4.6%)	0 (0.1%)
	D	2.1 (4.1%)	0.1 (0.2%)
	C	2.7 (5.1%)	-0.4 (-0.7%)
	AVG	2.3 (4.5%)	-0.1 (-0.1%)
NOV	W	2.2 (4.9%)	0.1 (0.1%)
	AN	2.3 (5.3%)	0.4 (0.8%)
	BN	2.3 (5.2%)	0.1 (0.2%)
	D	2.2 (5%)	0 (0%)
	C	1.9 (4.1%)	0 (0.1%)
	AVG	2.2 (4.9%)	0.1 (0.2%)
DEC	W	1.4 (3.3%)	0 (-0.1%)
	AN	2.3 (5.7%)	-0.1 (-0.3%)
	BN	2.1 (5.3%)	0 (-0.1%)
	D	1.9 (4.8%)	0.2 (0.5%)
	C	2.6 (6.7%)	0.4 (0.9%)
	AVG	1.9 (4.8%)	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.

1 **11D.5.8 Trinity River below North Fork**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
3 **Trinity River below North Fork, Year-Round**

Alternative 5: Trinity River below North Fork				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	40	41	41
	AN	38	39	39
	BN	38	39	39
	D	38	39	39
	C	38	40	40
	AVG	39	40	40
FEB	W	43	44	44
	AN	43	44	44
	BN	43	44	44
	D	43	44	44
	C	43	45	45
	AVG	43	44	44
MAR	W	46	47	47
	AN	46	47	47
	BN	46	47	47
	D	47	48	48
	C	48	49	49
	AVG	47	47	47
APR	W	53	53	53
	AN	54	54	55
	BN	54	55	55
	D	54	55	55
	C	54	55	55
	AVG	53	54	54
MAY	W	50	52	52
	AN	50	52	52
	BN	51	53	53
	D	51	54	54
	C	54	57	57
	AVG	51	53	53
JUN	W	55	57	57
	AN	58	58	58
	BN	60	61	61
	D	62	64	64
	C	63	66	66
	AVG	59	61	61
JUL	W	63	66	66
	AN	63	66	65
	BN	65	67	67
	D	65	68	68
	C	68	71	72
	AVG	65	67	67

Alternative 5: Trinity River below North Fork				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
AUG	W	65	68	67
	AN	64	67	67
	BN	65	68	68
	D	64	67	67
	C	65	69	69
	AVG	65	68	68
SEP	W	59	62	62
	AN	59	61	61
	BN	59	62	63
	D	58	62	62
	C	61	64	64
	AVG	59	62	62
OCT	W	53	55	55
	AN	53	55	55
	BN	54	56	56
	D	53	54	54
	C	54	56	56
	AVG	53	55	55
NOV	W	44	45	45
	AN	44	46	46
	BN	44	46	46
	D	44	45	45
	C	45	47	47
	AVG	44	46	46
DEC	W	41	42	42
	AN	40	42	41
	BN	39	41	41
	D	40	41	41
	C	38	40	40
	AVG	40	41	41

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River below North Fork, Year-Round**

Alternative 5: Trinity River below North Fork			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
JAN	W	1.1 (2.7%)	-0.1 (-0.1%)
	AN	1 (2.7%)	0 (0%)
	BN	1 (2.7%)	0 (-0.1%)
	D	1.6 (4.4%)	0 (0.1%)
	C	1.7 (4.5%)	0 (0.1%)
	AVG	1.3 (3.3%)	0 (0%)
FEB	W	1.1 (2.5%)	0 (0%)
	AN	1 (2.3%)	0 (0%)
	BN	1.1 (2.7%)	0 (0%)
	D	1.1 (2.5%)	0 (0%)
	C	1.4 (3.3%)	0 (0.1%)
	AVG	1.1 (2.6%)	0 (0%)
MAR	W	0.7 (1.6%)	0 (0%)
	AN	0.6 (1.3%)	0 (0%)
	BN	0.7 (1.6%)	0 (0%)
	D	0.7 (1.5%)	0 (0%)
	C	1.1 (2.2%)	0 (0%)
	AVG	0.8 (1.6%)	0 (0%)
APR	W	0.8 (1.6%)	0 (0.1%)
	AN	1 (1.9%)	0.1 (0.2%)
	BN	1.1 (2%)	0 (0%)
	D	1.2 (2.2%)	0 (0%)
	C	1.4 (2.7%)	0 (0%)
	AVG	1.1 (2%)	0 (0%)
MAY	W	2.1 (4.2%)	0 (0%)
	AN	2.1 (4.1%)	0 (-0.1%)
	BN	1.9 (3.8%)	0 (0%)
	D	2.2 (4.3%)	0 (-0.1%)
	C	2.7 (5%)	0 (0%)
	AVG	2.2 (4.2%)	0 (0%)
JUN	W	1.8 (3.3%)	0 (0%)
	AN	0.7 (1.3%)	0 (0%)
	BN	1.7 (2.9%)	0 (0%)
	D	2.3 (3.8%)	0.1 (0.2%)
	C	2.5 (3.9%)	-0.1 (-0.1%)
	AVG	1.9 (3.2%)	0 (0%)
JUL	W	3.1 (5%)	-0.3 (-0.4%)
	AN	1.9 (3%)	-0.3 (-0.4%)
	BN	2 (3%)	-0.3 (-0.4%)
	D	2.4 (3.7%)	-0.1 (-0.1%)
	C	3.8 (5.5%)	0.4 (0.6%)
	AVG	2.7 (4.2%)	-0.1 (-0.2%)

Alternative 5: Trinity River below North Fork			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
AUG	W	2.4 (3.7%)	-0.1 (-0.2%)
	AN	2.6 (4%)	-0.1 (-0.1%)
	BN	2.9 (4.4%)	0 (0.1%)
	D	3.4 (5.3%)	0.1 (0.2%)
	C	3.7 (5.6%)	-0.2 (-0.3%)
	AVG	2.9 (4.5%)	0 (-0.1%)
SEP	W	2.6 (4.3%)	0 (0%)
	AN	2.6 (4.4%)	0.1 (0.1%)
	BN	3.1 (5.2%)	0.1 (0.1%)
	D	3.8 (6.6%)	0.1 (0.2%)
	C	3 (5%)	0 (0.1%)
	AVG	3 (5.1%)	0 (0.1%)
OCT	W	1.9 (3.6%)	0 (-0.1%)
	AN	1.8 (3.4%)	-0.1 (-0.1%)
	BN	2 (3.7%)	0 (0%)
	D	1.9 (3.5%)	0.1 (0.1%)
	C	2.5 (4.7%)	-0.1 (-0.1%)
	AVG	2 (3.7%)	0 (0%)
NOV	W	1.6 (3.8%)	0 (0%)
	AN	1.7 (3.8%)	0.1 (0.3%)
	BN	1.9 (4.2%)	0 (0.1%)
	D	1.7 (3.9%)	0 (0%)
	C	1.7 (3.8%)	0 (0%)
	AVG	1.7 (3.9%)	0 (0.1%)
DEC	W	1 (2.3%)	0 (0.1%)
	AN	1.5 (3.7%)	-0.1 (-0.2%)
	BN	1.7 (4.3%)	0 (0%)
	D	1.5 (3.9%)	0.1 (0.2%)
	C	2 (5.3%)	0.1 (0.3%)
	AVG	1.4 (3.6%)	0 (0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.5.9 Feather River at Fish Barrier Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
3 **Feather River at Fish Barrier Dam, Year-Round**

Alternative 5: Feather River at Fish Barrier Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	48	51	51
	AN	47	50	50
	BN	48	51	51
	D	47	51	51
	C	48	51	51
	AVG	48	51	51
FEB	W	48	51	51
	AN	48	51	51
	BN	48	51	51
	D	49	52	52
	C	49	53	53
	AVG	48	51	51
MAR	W	49	51	51
	AN	49	51	51
	BN	50	53	53
	D	51	53	53
	C	51	54	54
	AVG	50	52	52
APR	W	51	52	52
	AN	51	53	53
	BN	52	54	54
	D	52	54	54
	C	52	54	54
	AVG	51	53	53
MAY	W	55	56	56
	AN	56	56	56
	BN	56	56	56
	D	56	56	56
	C	56	57	57
	AVG	55	56	56
JUN	W	57	58	58
	AN	58	58	58
	BN	58	58	58
	D	58	58	58
	C	58	59	59
	AVG	58	58	58
JUL	W	61	61	61
	AN	61	61	61
	BN	61	61	61
	D	61	61	62
	C	61	62	63
	AVG	61	61	62

Alternative 5: Feather River at Fish Barrier Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL
AUG	W	61	61	61
	AN	60	60	60
	BN	60	60	61
	D	60	62	62
	C	62	64	64
	AVG	61	61	62
SEP	W	56	55	56
	AN	56	55	56
	BN	56	57	58
	D	56	61	59
	C	58	63	63
	AVG	56	58	58
OCT	W	54	58	56
	AN	55	58	57
	BN	54	58	57
	D	54	59	59
	C	54	58	57
	AVG	54	58	57
NOV	W	52	58	57
	AN	53	58	57
	BN	53	58	57
	D	52	59	58
	C	53	58	58
	AVG	53	58	57
DEC	W	49	53	53
	AN	49	55	54
	BN	49	54	54
	D	49	54	54
	C	49	54	54
	AVG	49	54	54

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Fish Barrier Dam, Year-Round**

Alternative 5: Feather River at Fish Barrier Dam			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
JAN	W	2.9 (6.1%)	0.2 (0.3%)
	AN	3.1 (6.5%)	0 (0.1%)
	BN	3.1 (6.5%)	0.1 (0.1%)
	D	3.5 (7.4%)	0.1 (0.2%)
	C	3.8 (8%)	0 (0%)
	AVG	3.2 (6.8%)	0.1 (0.2%)
FEB	W	2.6 (5.5%)	0 (0.1%)
	AN	2.6 (5.5%)	0.1 (0.2%)
	BN	3.1 (6.4%)	0.1 (0.2%)
	D	3.1 (6.3%)	0.1 (0.3%)
	C	3.5 (7.2%)	0 (0.1%)
	AVG	2.9 (6.1%)	0.1 (0.2%)
MAR	W	2.6 (5.4%)	0.2 (0.3%)
	AN	2.2 (4.6%)	0 (0%)
	BN	3.4 (6.9%)	0.2 (0.4%)
	D	2.5 (4.8%)	0.1 (0.2%)
	C	2.8 (5.5%)	-0.3 (-0.5%)
	AVG	2.7 (5.4%)	0.1 (0.1%)
APR	W	1.9 (3.8%)	0.1 (0.1%)
	AN	1.8 (3.4%)	0.1 (0.1%)
	BN	1.8 (3.4%)	0.1 (0.1%)
	D	1.8 (3.4%)	-0.2 (-0.3%)
	C	2.5 (4.9%)	0 (-0.1%)
	AVG	1.9 (3.7%)	0 (0%)
MAY	W	0.7 (1.3%)	0 (0%)
	AN	0.5 (0.9%)	0 (0%)
	BN	0.3 (0.5%)	-0.1 (-0.1%)
	D	0.2 (0.4%)	0 (-0.1%)
	C	0.8 (1.4%)	-0.1 (-0.1%)
	AVG	0.5 (0.9%)	0 (0%)
JUN	W	0.2 (0.3%)	-0.3 (-0.5%)
	AN	0 (-0.1%)	-0.4 (-0.7%)
	BN	-0.1 (-0.2%)	-0.3 (-0.6%)
	D	0.4 (0.7%)	-0.1 (-0.2%)
	C	1.1 (1.9%)	-0.1 (-0.1%)
	AVG	0.3 (0.5%)	-0.2 (-0.4%)
JUL	W	0 (0%)	-0.1 (-0.1%)
	AN	0.3 (0.4%)	0 (0%)
	BN	0.3 (0.6%)	-0.1 (-0.2%)
	D	0.9 (1.4%)	0.3 (0.5%)
	C	1.8 (3%)	0.4 (0.7%)
	AVG	0.6 (0.9%)	0.1 (0.1%)

Alternative 5: Feather River at Fish Barrier Dam			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
AUG	W	0.2 (0.4%)	0.5 (0.8%)
	AN	0.4 (0.7%)	0.2 (0.3%)
	BN	0.9 (1.5%)	0.4 (0.6%)
	D	2 (3.4%)	0.2 (0.3%)
	C	2.2 (3.5%)	-0.2 (-0.4%)
	AVG	1.1 (1.7%)	0.2 (0.4%)
SEP	W	-0.2 (-0.4%)	0.4 (0.6%)
	AN	0.5 (0.9%)	1 (1.8%)
	BN	2.2 (4%)	0.7 (1.2%)
	D	3.3 (5.9%)	-1.6 (-2.7%)
	C	4.6 (7.9%)	-0.9 (-1.4%)
	AVG	1.8 (3.2%)	-0.1 (-0.2%)
OCT	W	2.9 (5.4%)	-1.7 (-2.9%)
	AN	2.4 (4.4%)	-1 (-1.6%)
	BN	3 (5.6%)	-1.2 (-2.1%)
	D	4.8 (8.9%)	-0.9 (-1.5%)
	C	3 (5.5%)	-0.8 (-1.3%)
	AVG	3.3 (6.1%)	-1.2 (-2%)
NOV	W	4.6 (8.7%)	-1.3 (-2.2%)
	AN	3.8 (7.2%)	-1.1 (-1.9%)
	BN	4.7 (8.8%)	-0.8 (-1.4%)
	D	5.5 (10.5%)	-0.8 (-1.4%)
	C	5.1 (9.7%)	-0.1 (-0.2%)
	AVG	4.8 (9.1%)	-0.9 (-1.5%)
DEC	W	4.3 (8.8%)	-0.2 (-0.3%)
	AN	5 (10.2%)	-0.6 (-1.1%)
	BN	5.7 (11.6%)	0.1 (0.2%)
	D	5 (10.3%)	0 (-0.1%)
	C	5.1 (10.3%)	0.3 (0.6%)
	AVG	4.9 (10%)	-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.

1 **11D.5.10 Feather River Low-Flow Channel (above Thermalito**
2 **Afterbay)**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
4 **Feather River Low-Flow Channel (above Thermalito Afterbay), Year-Round**

Alternative 5: Feather River Low-Flow Channel (above Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	47	50	50
	AN	47	50	50
	BN	47	50	50
	D	47	50	50
	C	47	51	51
	AVG	47	50	50
FEB	W	49	51	51
	AN	49	51	51
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	50	53	53
	AN	51	53	53
	BN	51	54	55
	D	52	55	55
	C	53	56	55
	AVG	51	54	54
APR	W	53	55	55
	AN	55	57	57
	BN	55	57	57
	D	55	57	57
	C	55	57	57
	AVG	55	57	57
MAY	W	59	61	61
	AN	60	62	62
	BN	60	61	61
	D	60	61	61
	C	60	62	62
	AVG	60	61	61
JUN	W	63	65	64
	AN	64	66	66
	BN	64	65	65
	D	64	66	66
	C	63	65	65
	AVG	64	65	65

Alternative 5: Feather River Low-Flow Channel (above Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JUL	W	68	69	69
	AN	67	69	69
	BN	67	69	69
	D	67	69	69
	C	67	70	70
	AVG	67	69	69
AUG	W	66	68	68
	AN	65	67	67
	BN	66	68	68
	D	65	68	68
	C	67	70	70
	AVG	66	68	68
SEP	W	60	61	61
	AN	60	61	62
	BN	60	62	63
	D	60	65	64
	C	61	66	66
	AVG	60	63	63
OCT	W	55	60	58
	AN	57	60	59
	BN	56	60	59
	D	56	61	60
	C	56	60	59
	AVG	56	60	59
NOV	W	52	58	57
	AN	53	58	57
	BN	53	58	57
	D	53	58	58
	C	53	58	58
	AVG	53	58	57
DEC	W	48	53	52
	AN	49	54	53
	BN	48	53	53
	D	48	53	53
	C	48	53	53
	AVG	48	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
 2 **Water Temperatures in the Feather Low-Flow Channel (above Thermalito Afterbay), Year-Round**

Alternative 5: Feather River Low-Flow Channel (above Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
JAN	W	2.9 (6.2%)	0.1 (0.3%)
	AN	3.1 (6.6%)	0 (0.1%)
	BN	3 (6.4%)	0 (0.1%)
	D	3.4 (7.2%)	0.1 (0.2%)
	C	3.6 (7.7%)	0 (0%)
	AVG	3.2 (6.7%)	0.1 (0.2%)
FEB	W	2.7 (5.5%)	0 (0%)
	AN	2.7 (5.5%)	0.1 (0.1%)
	BN	3 (6.2%)	0.1 (0.2%)
	D	3 (6%)	0.1 (0.2%)
	C	3.4 (6.8%)	0.1 (0.1%)
	AVG	2.9 (5.9%)	0.1 (0.1%)
MAR	W	2.6 (5.2%)	0.1 (0.2%)
	AN	2.3 (4.5%)	0 (0%)
	BN	3.2 (6.2%)	0.2 (0.3%)
	D	2.5 (4.7%)	0.1 (0.2%)
	C	2.8 (5.2%)	-0.2 (-0.4%)
	AVG	2.7 (5.2%)	0.1 (0.1%)
APR	W	1.9 (3.6%)	0.1 (0.1%)
	AN	2 (3.7%)	0.1 (0.1%)
	BN	1.9 (3.5%)	0.1 (0.1%)
	D	2 (3.6%)	-0.1 (-0.3%)
	C	2.5 (4.6%)	0 (-0.1%)
	AVG	2 (3.7%)	0 (0%)
MAY	W	1.4 (2.4%)	0 (0%)
	AN	1.3 (2.2%)	0 (0%)
	BN	1.1 (1.9%)	0 (-0.1%)
	D	1.1 (1.9%)	0 (0%)
	C	1.5 (2.5%)	-0.1 (-0.1%)
	AVG	1.3 (2.2%)	0 (0%)
JUN	W	1.4 (2.3%)	-0.2 (-0.3%)
	AN	1.5 (2.3%)	-0.3 (-0.4%)
	BN	1.4 (2.2%)	-0.2 (-0.3%)
	D	1.8 (2.8%)	-0.1 (-0.1%)
	C	2.1 (3.3%)	0 (-0.1%)
	AVG	1.6 (2.5%)	-0.1 (-0.2%)
JUL	W	1.5 (2.3%)	-0.1 (-0.1%)
	AN	1.8 (2.6%)	0 (0%)
	BN	1.7 (2.6%)	-0.1 (-0.1%)
	D	2.1 (3.2%)	0.2 (0.3%)
	C	2.9 (4.3%)	0.3 (0.4%)
	AVG	1.9 (2.9%)	0 (0.1%)

Alternative 5: Feather River Low-Flow Channel (above Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
AUG	W	1.8 (2.7%)	0.3 (0.4%)
	AN	1.8 (2.8%)	0.1 (0.2%)
	BN	2.2 (3.4%)	0.2 (0.3%)
	D	2.9 (4.5%)	0.1 (0.1%)
	C	3 (4.6%)	-0.2 (-0.2%)
	AVG	2.3 (3.5%)	0.1 (0.2%)
SEP	W	1.1 (1.8%)	0.2 (0.4%)
	AN	1.5 (2.6%)	0.7 (1.2%)
	BN	2.8 (4.6%)	0.5 (0.8%)
	D	3.7 (6.1%)	-1.2 (-1.8%)
	C	4.5 (7.3%)	-0.6 (-0.9%)
	AVG	2.5 (4.2%)	-0.1 (-0.1%)
OCT	W	3 (5.4%)	-1.3 (-2.2%)
	AN	2.6 (4.7%)	-0.7 (-1.2%)
	BN	3.2 (5.7%)	-1 (-1.6%)
	D	4.5 (8.1%)	-0.7 (-1.2%)
	C	3.1 (5.6%)	-0.6 (-1%)
	AVG	3.3 (6%)	-0.9 (-1.6%)
NOV	W	4.3 (8.2%)	-1.1 (-1.9%)
	AN	3.7 (7%)	-0.9 (-1.6%)
	BN	4.4 (8.3%)	-0.7 (-1.1%)
	D	5.1 (9.7%)	-0.7 (-1.2%)
	C	4.8 (9%)	-0.1 (-0.1%)
	AVG	4.5 (8.5%)	-0.7 (-1.3%)
DEC	W	4.1 (8.5%)	-0.1 (-0.3%)
	AN	4.7 (9.6%)	-0.5 (-0.9%)
	BN	5.2 (10.7%)	0.1 (0.2%)
	D	4.7 (9.8%)	0 (0%)
	C	4.7 (9.7%)	0.2 (0.4%)
	AVG	4.6 (9.5%)	-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.

1 **11D.5.11 Feather River High-Flow Channel (below Thermalito**
2 **Afterbay)**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
4 **Feather River High-Flow Channel (below Thermalito Afterbay), Year-Round**

Alternative Feather River High-Flow Channel (below Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LLТ
JAN	W	47	50	50
	AN	47	50	49
	BN	46	49	49
	D	46	49	49
	C	46	50	50
	AVG	47	49	49
FEB	W	49	52	51
	AN	49	52	52
	BN	49	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	52	52
MAR	W	51	54	54
	AN	52	54	54
	BN	53	56	56
	D	54	57	57
	C	54	57	57
	AVG	53	55	55
APR	W	55	57	57
	AN	57	59	59
	BN	58	59	59
	D	57	60	60
	C	57	60	60
	AVG	57	59	59
MAY	W	61	63	63
	AN	63	64	64
	BN	63	65	65
	D	63	65	65
	C	63	66	66
	AVG	62	64	64
JUN	W	66	68	67
	AN	67	70	69
	BN	67	70	69
	D	68	71	71
	C	68	71	71
	AVG	67	70	69

Alternative Feather River High-Flow Channel (below Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LLT
JUL	W	70	70	70
	AN	68	69	69
	BN	68	70	69
	D	68	70	71
	C	70	74	75
	AVG	69	71	71
AUG	W	70	70	71
	AN	67	69	69
	BN	68	70	71
	D	67	71	73
	C	70	74	74
	AVG	69	71	72
SEP	W	64	63	65
	AN	64	64	67
	BN	65	68	66
	D	64	67	65
	C	64	69	68
	AVG	64	66	66
OCT	W	58	62	62
	AN	60	63	62
	BN	59	63	63
	D	58	63	62
	C	59	63	63
	AVG	59	63	62
NOV	W	53	57	56
	AN	54	58	57
	BN	53	57	57
	D	53	57	57
	C	53	57	58
	AVG	53	57	57
DEC	W	48	51	51
	AN	48	52	52
	BN	47	51	51
	D	47	51	51
	C	47	50	51
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather High-Flow Channel (below Thermalito Afterbay), Year-Round**

Alternative 5: Feather River High-Flow Channel (below Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
JAN	W	2.9 (6.2%)	0.2 (0.5%)
	AN	2.9 (6.2%)	0 (-0.1%)
	BN	2.8 (6%)	0.1 (0.1%)
	D	2.9 (6.4%)	0.1 (0.1%)
	C	3.2 (6.8%)	-0.1 (-0.2%)
	AVG	2.9 (6.3%)	0.1 (0.2%)
FEB	W	2.5 (5.2%)	-0.1 (-0.2%)
	AN	3 (6%)	-0.1 (-0.2%)
	BN	3 (6%)	0 (0%)
	D	2.8 (5.6%)	0 (0.1%)
	C	3.1 (6.1%)	0 (0%)
	AVG	2.8 (5.7%)	0 (-0.1%)
MAR	W	2.5 (4.8%)	0.2 (0.3%)
	AN	1.4 (2.7%)	-0.3 (-0.6%)
	BN	3.2 (6%)	0.2 (0.4%)
	D	2.5 (4.7%)	0.1 (0.1%)
	C	3 (5.5%)	0 (-0.1%)
	AVG	2.5 (4.8%)	0 (0.1%)
APR	W	2 (3.7%)	0 (0.1%)
	AN	2.3 (4.1%)	0 (0.1%)
	BN	1.7 (3%)	0 (-0.1%)
	D	2.7 (4.6%)	0.3 (0.5%)
	C	2.9 (5%)	0.4 (0.7%)
	AVG	2.3 (4%)	0.1 (0.2%)
MAY	W	2.8 (4.5%)	0 (0%)
	AN	1.6 (2.5%)	0 (0%)
	BN	2.2 (3.5%)	0.1 (0.1%)
	D	2.2 (3.5%)	-0.1 (-0.1%)
	C	2.3 (3.6%)	0 (0%)
	AVG	2.3 (3.7%)	0 (0%)
JUN	W	1.6 (2.5%)	-1 (-1.5%)
	AN	1.3 (1.9%)	-1.3 (-1.8%)
	BN	1.1 (1.6%)	-1.3 (-1.8%)
	D	2.5 (3.6%)	-0.4 (-0.6%)
	C	3.2 (4.7%)	0.2 (0.3%)
	AVG	1.9 (2.9%)	-0.8 (-1.1%)
JUL	W	0.2 (0.3%)	-0.3 (-0.4%)
	AN	1.3 (1.9%)	-0.1 (-0.1%)
	BN	1.4 (2.1%)	-0.6 (-0.8%)
	D	3.6 (5.3%)	1.3 (1.9%)
	C	5.7 (8.1%)	1.4 (1.9%)
	AVG	2.1 (3.1%)	0.3 (0.4%)

Alternative 5: Feather River High-Flow Channel (below Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
AUG	W	1.7 (2.4%)	1 (1.4%)
	AN	2 (3%)	0.2 (0.3%)
	BN	2.8 (4.1%)	0.6 (0.9%)
	D	5.4 (8.1%)	1.5 (2.1%)
	C	4.2 (6.1%)	0.2 (0.2%)
	AVG	3.1 (4.6%)	0.8 (1.1%)
SEP	W	1.5 (2.4%)	2.2 (3.6%)
	AN	3 (4.6%)	3.4 (5.3%)
	BN	1 (1.6%)	-1.9 (-2.7%)
	D	1.3 (2%)	-1.2 (-1.8%)
	C	4.2 (6.5%)	-0.7 (-1%)
	AVG	2 (3.1%)	0.5 (0.7%)
OCT	W	3.2 (5.5%)	-0.7 (-1.1%)
	AN	2.8 (4.7%)	-0.6 (-0.9%)
	BN	3.3 (5.6%)	-0.3 (-0.5%)
	D	3.9 (6.8%)	-0.3 (-0.5%)
	C	3.8 (6.5%)	0 (0%)
	AVG	3.4 (5.8%)	-0.4 (-0.7%)
NOV	W	3.8 (7.1%)	-0.5 (-0.9%)
	AN	3.6 (6.7%)	-0.4 (-0.7%)
	BN	3.8 (7.2%)	-0.3 (-0.6%)
	D	4.3 (8.1%)	-0.4 (-0.7%)
	C	4.1 (7.6%)	0 (0%)
	AVG	3.9 (7.4%)	-0.4 (-0.6%)
DEC	W	3.4 (7.2%)	0 (-0.1%)
	AN	4.2 (8.8%)	-0.3 (-0.6%)
	BN	4.2 (9%)	0 (0%)
	D	4.1 (8.7%)	0 (0%)
	C	4 (8.5%)	0.1 (0.2%)
	AVG	3.9 (8.2%)	0 (-0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.5.12 Feather River at Gridley Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
3 **Feather River at Gridley Dam, Year-Round**

Alternative 5: Feather River at Gridley Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	46	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	49	52	52
	BN	50	53	53
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	51	54	54
	AN	53	54	54
	BN	54	57	57
	D	55	57	57
	C	54	57	57
	AVG	53	56	56
APR	W	56	58	58
	AN	58	60	60
	BN	59	61	60
	D	59	61	61
	C	58	61	61
	AVG	58	60	60
MAY	W	61	64	64
	AN	64	66	66
	BN	64	66	66
	D	64	66	66
	C	64	67	67
	AVG	63	66	66
JUN	W	67	69	68
	AN	69	71	70
	BN	69	71	70
	D	69	72	72
	C	69	72	72
	AVG	68	71	70
JUL	W	70	71	71
	AN	69	70	70
	BN	69	71	70
	D	69	71	73
	C	71	75	76
	AVG	70	72	72

Alternative 5: Feather River at Gridley Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LLT
AUG	W	71	71	73
	AN	68	70	70
	BN	69	71	72
	D	68	72	74
	C	71	75	75
	AVG	69	72	73
SEP	W	65	64	66
	AN	65	64	68
	BN	66	69	68
	D	65	68	67
	C	66	70	70
	AVG	65	67	68
OCT	W	59	63	62
	AN	60	63	63
	BN	60	63	63
	D	59	63	63
	C	59	63	63
	AVG	59	63	63
NOV	W	53	57	56
	AN	54	58	57
	BN	53	57	57
	D	53	57	57
	C	54	57	57
	AVG	53	57	57
DEC	W	48	51	51
	AN	47	52	52
	BN	47	51	51
	D	47	51	51
	C	46	50	50
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Gridley Dam, Year-Round**

Alternative 5: Feather River at Gridley Dam			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
JAN	W	2.9 (6.2%)	0.3 (0.5%)
	AN	2.9 (6.2%)	-0.1 (-0.1%)
	BN	2.8 (6%)	0 (0.1%)
	D	2.9 (6.3%)	0.1 (0.1%)
	C	3.1 (6.8%)	-0.1 (-0.2%)
	AVG	2.9 (6.3%)	0.1 (0.2%)
FEB	W	2.5 (5.2%)	-0.1 (-0.2%)
	AN	3 (6%)	-0.1 (-0.2%)
	BN	3 (6.1%)	0 (0.1%)
	D	2.8 (5.6%)	0.1 (0.1%)
	C	3.1 (6%)	0 (0%)
	AVG	2.8 (5.7%)	0 (-0.1%)
MAR	W	2.4 (4.7%)	0.1 (0.3%)
	AN	1.4 (2.6%)	-0.3 (-0.6%)
	BN	3.2 (6%)	0.2 (0.4%)
	D	2.5 (4.6%)	0 (0%)
	C	2.9 (5.3%)	0 (0%)
	AVG	2.5 (4.7%)	0 (0.1%)
APR	W	2.1 (3.7%)	0 (0.1%)
	AN	2.3 (4%)	0 (0.1%)
	BN	1.7 (2.9%)	-0.1 (-0.2%)
	D	2.4 (4.2%)	0.1 (0.2%)
	C	2.7 (4.6%)	0.2 (0.4%)
	AVG	2.2 (3.8%)	0 (0.1%)
MAY	W	3 (4.9%)	0 (0%)
	AN	1.8 (2.9%)	0 (0%)
	BN	2 (3.2%)	0 (0%)
	D	2.1 (3.2%)	-0.1 (-0.2%)
	C	2.3 (3.6%)	0 (0%)
	AVG	2.4 (3.7%)	0 (0%)
JUN	W	1.7 (2.5%)	-1.1 (-1.6%)
	AN	1.1 (1.6%)	-1.4 (-1.9%)
	BN	0.9 (1.4%)	-1.4 (-1.9%)
	D	2.5 (3.6%)	-0.4 (-0.6%)
	C	3.2 (4.7%)	0.2 (0.2%)
	AVG	1.9 (2.8%)	-0.8 (-1.2%)
JUL	W	0.3 (0.4%)	-0.3 (-0.5%)
	AN	1.5 (2.1%)	-0.1 (-0.1%)
	BN	1.6 (2.3%)	-0.6 (-0.8%)
	D	3.8 (5.5%)	1.4 (1.9%)
	C	5.9 (8.3%)	1.5 (2%)
	AVG	2.3 (3.3%)	0.3 (0.4%)

Alternative 5: Feather River at Gridley Dam			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
AUG	W	1.7 (2.5%)	1.1 (1.6%)
	AN	2.1 (3.1%)	0.3 (0.4%)
	BN	3 (4.3%)	0.6 (0.9%)
	D	5.8 (8.6%)	1.5 (2.1%)
	C	4.4 (6.2%)	0.2 (0.3%)
	AVG	3.3 (4.7%)	0.9 (1.2%)
SEP	W	1.1 (1.7%)	2.4 (3.7%)
	AN	2.9 (4.4%)	3.7 (5.7%)
	BN	2 (3%)	-0.8 (-1.2%)
	D	2.4 (3.6%)	-0.9 (-1.4%)
	C	4.1 (6.3%)	-0.6 (-0.8%)
	AVG	2.2 (3.4%)	0.8 (1.2%)
OCT	W	3.3 (5.5%)	-0.7 (-1%)
	AN	2.7 (4.5%)	-0.6 (-1%)
	BN	3.3 (5.6%)	-0.3 (-0.5%)
	D	3.8 (6.5%)	-0.3 (-0.5%)
	C	3.6 (6.1%)	-0.1 (-0.2%)
	AVG	3.4 (5.7%)	-0.4 (-0.7%)
NOV	W	3.7 (7%)	-0.5 (-0.8%)
	AN	3.5 (6.5%)	-0.4 (-0.6%)
	BN	3.7 (7%)	-0.3 (-0.5%)
	D	4.1 (7.9%)	-0.4 (-0.6%)
	C	4 (7.4%)	0 (0%)
	AVG	3.8 (7.2%)	-0.3 (-0.6%)
DEC	W	3.4 (7.1%)	0 (-0.1%)
	AN	4.1 (8.6%)	-0.3 (-0.5%)
	BN	4.1 (8.9%)	0 (0.1%)
	D	4 (8.5%)	0 (0%)
	C	3.9 (8.3%)	0.1 (0.2%)
	AVG	3.8 (8.1%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.5.13 Feather River at Honcut Creek**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
3 **Feather River at Honcut Creek, Year-Round**

Alternative 5: Feather River at Honcut Creek				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	47	50	50
	AN	46	49	49
	BN	46	49	49
	D	45	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	49	53	52
	BN	50	53	53
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	52	54	54
	AN	53	55	54
	BN	54	57	57
	D	55	58	58
	C	55	58	58
	AVG	53	56	56
APR	W	56	58	58
	AN	59	61	61
	BN	60	62	61
	D	60	62	62
	C	59	62	62
	AVG	58	61	61
MAY	W	62	65	65
	AN	65	67	67
	BN	65	67	67
	D	65	67	67
	C	65	68	68
	AVG	64	67	67
JUN	W	67	70	69
	AN	69	72	70
	BN	69	72	70
	D	70	73	72
	C	69	73	73
	AVG	69	72	71
JUL	W	71	72	71
	AN	69	71	71
	BN	69	72	71
	D	69	72	73
	C	71	76	77
	AVG	70	72	73

Alternative 5: Feather River at Honcut Creek				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL
AUG	W	72	72	73
	AN	69	71	71
	BN	69	72	72
	D	68	73	74
	C	72	76	76
	AVG	70	73	74
SEP	W	66	64	67
	AN	66	65	69
	BN	67	69	69
	D	66	70	69
	C	66	71	71
	AVG	66	68	69
OCT	W	59	63	62
	AN	60	64	63
	BN	60	64	63
	D	59	63	63
	C	60	64	63
	AVG	60	63	63
NOV	W	53	57	56
	AN	54	58	57
	BN	53	57	57
	D	53	57	57
	C	54	57	57
	AVG	53	57	57
DEC	W	47	51	51
	AN	47	52	51
	BN	46	51	51
	D	46	50	50
	C	46	50	50
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Honcut Creek, Year-Round**

Alternative 5: Feather River at Honcut Creek			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
JAN	W	2.9 (6.2%)	0.2 (0.5%)
	AN	2.9 (6.2%)	0 (-0.1%)
	BN	2.8 (6%)	0 (0.1%)
	D	2.8 (6.3%)	0 (0.1%)
	C	3.1 (6.8%)	-0.1 (-0.3%)
	AVG	2.9 (6.3%)	0.1 (0.1%)
FEB	W	2.6 (5.2%)	-0.1 (-0.2%)
	AN	2.9 (6%)	-0.1 (-0.2%)
	BN	3 (6%)	0 (0%)
	D	2.8 (5.6%)	0 (0%)
	C	3 (5.9%)	0 (-0.1%)
	AVG	2.8 (5.6%)	-0.1 (-0.1%)
MAR	W	2.4 (4.7%)	0.1 (0.3%)
	AN	1.4 (2.6%)	-0.3 (-0.6%)
	BN	3.2 (6%)	0.2 (0.3%)
	D	2.4 (4.4%)	0 (-0.1%)
	C	2.8 (5.1%)	0 (0%)
	AVG	2.5 (4.6%)	0 (0%)
APR	W	2.1 (3.7%)	0 (0.1%)
	AN	2.3 (4%)	0 (0%)
	BN	1.8 (3%)	-0.2 (-0.3%)
	D	2.3 (3.8%)	0 (-0.1%)
	C	2.5 (4.3%)	0.1 (0.1%)
	AVG	2.2 (3.7%)	0 (0%)
MAY	W	3.2 (5.1%)	0 (0%)
	AN	2.1 (3.2%)	0 (0%)
	BN	1.9 (3%)	-0.1 (-0.1%)
	D	1.9 (2.9%)	-0.1 (-0.2%)
	C	2.3 (3.6%)	0 (0%)
	AVG	2.4 (3.8%)	0 (-0.1%)
JUN	W	1.8 (2.6%)	-1.1 (-1.6%)
	AN	1.1 (1.6%)	-1.4 (-1.9%)
	BN	0.9 (1.3%)	-1.4 (-1.9%)
	D	2.5 (3.6%)	-0.4 (-0.6%)
	C	3.2 (4.6%)	0.1 (0.1%)
	AVG	1.9 (2.8%)	-0.9 (-1.2%)
JUL	W	0.4 (0.5%)	-0.4 (-0.5%)
	AN	1.6 (2.3%)	-0.1 (-0.1%)
	BN	1.7 (2.5%)	-0.6 (-0.8%)
	D	4 (5.8%)	1.4 (1.9%)
	C	6 (8.4%)	1.5 (2%)
	AVG	2.4 (3.4%)	0.3 (0.4%)

Alternative 5: Feather River at Honcut Creek			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
AUG	W	1.9 (2.6%)	1.2 (1.6%)
	AN	2.2 (3.2%)	0.3 (0.4%)
	BN	3.1 (4.4%)	0.6 (0.9%)
	D	6.1 (8.9%)	1.5 (2.1%)
	C	4.4 (6.2%)	0.2 (0.3%)
	AVG	3.4 (4.9%)	0.9 (1.2%)
SEP	W	0.8 (1.3%)	2.4 (3.8%)
	AN	2.9 (4.4%)	3.8 (5.9%)
	BN	2.8 (4.1%)	-0.1 (-0.2%)
	D	3.2 (4.8%)	-0.7 (-1%)
	C	4.1 (6.1%)	-0.5 (-0.7%)
	AVG	2.4 (3.7%)	1.1 (1.6%)
OCT	W	3.3 (5.5%)	-0.6 (-1%)
	AN	2.6 (4.3%)	-0.6 (-1%)
	BN	3.3 (5.5%)	-0.3 (-0.5%)
	D	3.7 (6.3%)	-0.3 (-0.5%)
	C	3.5 (5.9%)	-0.2 (-0.4%)
	AVG	3.3 (5.6%)	-0.4 (-0.7%)
NOV	W	3.7 (6.9%)	-0.4 (-0.8%)
	AN	3.5 (6.5%)	-0.4 (-0.6%)
	BN	3.7 (6.9%)	-0.3 (-0.5%)
	D	4 (7.6%)	-0.3 (-0.6%)
	C	3.9 (7.2%)	0 (0%)
	AVG	3.7 (7.1%)	-0.3 (-0.5%)
DEC	W	3.3 (7%)	0 (-0.1%)
	AN	4 (8.6%)	-0.3 (-0.5%)
	BN	4.1 (8.7%)	0 (0.1%)
	D	3.9 (8.4%)	0 (0%)
	C	3.7 (8.1%)	0.2 (0.4%)
	AVG	3.7 (8%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.5.14 Feather River at the Confluence with the Sacramento**
2 **River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
4 **Feather River at Confluence with the Sacramento River, Year-Round**

Alternative 5: Feather River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	47	48	49
	AN	46	48	48
	BN	46	47	47
	D	45	47	47
	C	45	48	48
	AVG	46	48	48
FEB	W	50	52	52
	AN	50	52	52
	BN	50	51	51
	D	50	52	52
	C	51	53	53
	AVG	50	52	52
MAR	W	53	55	55
	AN	54	56	56
	BN	55	57	57
	D	55	57	57
	C	56	58	58
	AVG	55	56	56
APR	W	59	60	60
	AN	60	62	62
	BN	61	62	62
	D	62	64	64
	C	63	65	65
	AVG	61	63	62
MAY	W	65	68	68
	AN	66	69	69
	BN	67	69	69
	D	68	70	70
	C	68	71	71
	AVG	66	69	69
JUN	W	70	73	72
	AN	71	75	74
	BN	72	75	74
	D	73	77	77
	C	72	76	76
	AVG	71	75	74

Alternative 5: Feather River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JUL	W	74	76	76
	AN	72	75	75
	BN	73	76	75
	D	73	76	77
	C	75	79	80
	AVG	73	76	77
AUG	W	73	76	76
	AN	71	74	74
	BN	72	75	75
	D	72	76	77
	C	75	79	79
	AVG	73	76	76
SEP	W	71	70	72
	AN	70	70	73
	BN	70	73	74
	D	70	74	74
	C	70	74	74
	AVG	70	72	73
OCT	W	61	64	64
	AN	62	64	64
	BN	61	64	64
	D	61	64	64
	C	62	65	65
	AVG	61	64	64
NOV	W	52	55	55
	AN	53	56	56
	BN	53	55	55
	D	52	55	55
	C	53	56	56
	AVG	53	55	55
DEC	W	47	49	49
	AN	47	50	50
	BN	46	49	49
	D	46	49	49
	C	45	47	48
	AVG	46	49	49

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

Alternative 5: Feather River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
JAN	W	2 (4.3%)	0.1 (0.3%)
	AN	1.8 (3.9%)	0 (-0.1%)
	BN	1.9 (4.1%)	0 (0.1%)
	D	2.1 (4.7%)	0 (0%)
	C	2.2 (4.8%)	-0.1 (-0.2%)
	AVG	2 (4.4%)	0 (0.1%)
FEB	W	1.9 (3.9%)	0 (0%)
	AN	1.9 (3.8%)	0 (-0.1%)
	BN	1.7 (3.4%)	0 (-0.1%)
	D	1.9 (3.8%)	0 (0%)
	C	2.2 (4.3%)	0 (0%)
	AVG	1.9 (3.8%)	0 (0%)
MAR	W	1.8 (3.3%)	0.1 (0.1%)
	AN	1.2 (2.3%)	-0.1 (-0.2%)
	BN	1.9 (3.4%)	0 (0.1%)
	D	1.7 (3.1%)	0 (-0.1%)
	C	2.1 (3.7%)	0 (0.1%)
	AVG	1.7 (3.2%)	0 (0%)
APR	W	1.6 (2.7%)	0 (0%)
	AN	1.9 (3.2%)	0 (0%)
	BN	1.5 (2.4%)	-0.2 (-0.3%)
	D	2 (3.2%)	-0.1 (-0.1%)
	C	2.1 (3.3%)	-0.1 (-0.2%)
	AVG	1.8 (2.9%)	-0.1 (-0.1%)
MAY	W	3 (4.6%)	0 (0%)
	AN	3 (4.5%)	0 (0%)
	BN	2.5 (3.8%)	0 (-0.1%)
	D	2.5 (3.7%)	-0.1 (-0.2%)
	C	2.7 (4%)	0 (0%)
	AVG	2.8 (4.2%)	0 (0%)
JUN	W	2.8 (4%)	-0.7 (-1%)
	AN	2.5 (3.5%)	-0.9 (-1.2%)
	BN	2.5 (3.4%)	-0.9 (-1.2%)
	D	3.5 (4.8%)	-0.3 (-0.4%)
	C	3.5 (4.8%)	0 (0%)
	AVG	2.9 (4.1%)	-0.6 (-0.8%)
JUL	W	2.3 (3.1%)	-0.3 (-0.4%)
	AN	2.6 (3.5%)	-0.1 (-0.1%)
	BN	2.6 (3.6%)	-0.5 (-0.7%)
	D	4.3 (5.9%)	1 (1.3%)
	C	5.7 (7.7%)	1.2 (1.5%)
	AVG	3.3 (4.6%)	0.2 (0.2%)

Alternative 5: Feather River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
AUG	W	3.2 (4.4%)	0.7 (0.9%)
	AN	2.8 (3.9%)	0.1 (0.1%)
	BN	3.3 (4.6%)	0.3 (0.4%)
	D	5.7 (8%)	1 (1.3%)
	C	4.5 (6%)	0.2 (0.2%)
	AVG	3.9 (5.4%)	0.5 (0.7%)
SEP	W	1.3 (1.8%)	2 (2.8%)
	AN	3 (4.3%)	3.1 (4.4%)
	BN	4.1 (5.8%)	1.1 (1.5%)
	D	4.4 (6.3%)	0 (0%)
	C	3.5 (5%)	-0.2 (-0.2%)
	AVG	3 (4.3%)	1.2 (1.7%)
OCT	W	2.9 (4.7%)	-0.3 (-0.4%)
	AN	2.2 (3.6%)	-0.4 (-0.6%)
	BN	2.8 (4.6%)	-0.1 (-0.1%)
	D	2.9 (4.8%)	-0.2 (-0.3%)
	C	3 (4.8%)	-0.3 (-0.5%)
	AVG	2.8 (4.6%)	-0.2 (-0.4%)
NOV	W	2.6 (5%)	-0.1 (-0.3%)
	AN	2.7 (5%)	-0.2 (-0.4%)
	BN	2.7 (5.2%)	-0.1 (-0.2%)
	D	2.7 (5.2%)	-0.1 (-0.2%)
	C	2.8 (5.2%)	0 (0%)
	AVG	2.7 (5.1%)	-0.1 (-0.2%)
DEC	W	2 (4.2%)	0.1 (0.1%)
	AN	2.7 (5.8%)	-0.2 (-0.4%)
	BN	2.8 (6.1%)	0 (0.1%)
	D	2.5 (5.5%)	0 (-0.1%)
	C	2.7 (5.9%)	0.3 (0.6%)
	AVG	2.4 (5.3%)	0 (0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.5.15 American River below Nimbus Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
3 **American River below Nimbus Dam, Year-Round**

Alternative 5: American River below Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	47	49	49
	C	47	50	50
	AVG	47	50	50
FEB	W	48	51	51
	AN	48	52	52
	BN	47	51	51
	D	49	52	52
	C	51	54	54
	AVG	48	52	52
MAR	W	52	55	55
	AN	53	56	56
	BN	53	56	56
	D	53	57	57
	C	55	58	58
	AVG	53	56	56
APR	W	56	59	59
	AN	57	60	60
	BN	57	61	61
	D	59	62	62
	C	59	63	63
	AVG	58	60	61
MAY	W	60	64	64
	AN	61	66	66
	BN	61	65	65
	D	64	67	67
	C	64	68	68
	AVG	62	66	66
JUN	W	64	67	66
	AN	65	68	68
	BN	65	68	68
	D	67	69	68
	C	68	72	72
	AVG	66	68	68
JUL	W	66	68	68
	AN	66	66	67
	BN	66	67	67
	D	67	69	70
	C	70	74	75
	AVG	67	69	69

Alternative 5: American River below Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL
AUG	W	67	70	70
	AN	67	69	69
	BN	67	69	70
	D	67	71	72
	C	70	76	77
	AVG	67	71	71
SEP	W	65	68	68
	AN	66	69	69
	BN	66	69	69
	D	66	71	72
	C	68	73	73
	AVG	66	70	70
OCT	W	58	68	68
	AN	59	68	68
	BN	58	68	68
	D	59	67	68
	C	61	68	68
	AVG	59	68	68
NOV	W	57	61	61
	AN	57	61	61
	BN	56	61	60
	D	57	61	60
	C	58	61	61
	AVG	57	61	61
DEC	W	50	53	53
	AN	51	53	53
	BN	50	52	52
	D	50	53	53
	C	50	52	52
	AVG	50	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the American River below Nimbus Dam, Year-Round**

Alternative 5: American River below Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
JAN	W	3.1 (6.7%)	0 (0.1%)
	AN	2.7 (5.7%)	0 (0.1%)
	BN	3 (6.5%)	0 (0%)
	D	2.8 (6%)	-0.1 (-0.1%)
	C	2.9 (6.1%)	-0.1 (-0.3%)
	AVG	2.9 (6.3%)	0 (0%)
FEB	W	3.5 (7.2%)	0 (0%)
	AN	3.8 (7.9%)	0 (0%)
	BN	3.3 (7%)	0 (0.1%)
	D	3.4 (7%)	0 (0%)
	C	3.4 (6.7%)	0.1 (0.2%)
	AVG	3.5 (7.1%)	0 (0%)
MAR	W	3.1 (6%)	0 (0%)
	AN	2.9 (5.6%)	0 (0%)
	BN	2.6 (5%)	0 (0%)
	D	3.4 (6.4%)	0 (0%)
	C	3.1 (5.6%)	0.1 (0.2%)
	AVG	3.1 (5.8%)	0 (0%)
APR	W	3 (5.3%)	0 (0%)
	AN	3.2 (5.5%)	0 (0%)
	BN	3.1 (5.4%)	0 (-0.1%)
	D	2.5 (4.2%)	-0.1 (-0.1%)
	C	3.7 (6.3%)	0.5 (0.8%)
	AVG	3 (5.2%)	0.1 (0.1%)
MAY	W	4.2 (7%)	0 (0%)
	AN	4.6 (7.5%)	-0.2 (-0.3%)
	BN	3.9 (6.5%)	-0.2 (-0.3%)
	D	2.6 (4.1%)	-0.4 (-0.6%)
	C	3.8 (5.9%)	0.2 (0.2%)
	AVG	3.8 (6.1%)	-0.1 (-0.2%)
JUN	W	2.6 (4%)	-0.4 (-0.7%)
	AN	2.4 (3.7%)	-0.4 (-0.6%)
	BN	2.5 (3.9%)	-0.5 (-0.7%)
	D	1.4 (2.1%)	-0.4 (-0.6%)
	C	3.6 (5.3%)	-0.6 (-0.9%)
	AVG	2.4 (3.7%)	-0.5 (-0.7%)
JUL	W	1.4 (2.2%)	-0.1 (-0.1%)
	AN	1.1 (1.6%)	0.6 (1%)
	BN	1.2 (1.9%)	0.1 (0.1%)
	D	2.8 (4.3%)	0.6 (0.9%)
	C	4.9 (7%)	0.5 (0.6%)
	AVG	2.2 (3.3%)	0.3 (0.4%)

Alternative 5: American River below Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
AUG	W	3.4 (5.1%)	0.2 (0.3%)
	AN	1.9 (2.8%)	-0.2 (-0.3%)
	BN	2.5 (3.7%)	0.6 (0.9%)
	D	5 (7.5%)	0.8 (1.1%)
	C	7.3 (10.4%)	1 (1.3%)
	AVG	4 (5.9%)	0.5 (0.7%)
SEP	W	3 (4.6%)	0.3 (0.4%)
	AN	3.1 (4.7%)	0 (0%)
	BN	3 (4.6%)	0.3 (0.4%)
	D	5.4 (8.2%)	0.4 (0.6%)
	C	4.9 (7.2%)	0.1 (0.1%)
	AVG	3.8 (5.8%)	0.2 (0.3%)
OCT	W	9.2 (15.8%)	-0.1 (-0.1%)
	AN	9 (15.2%)	0.3 (0.4%)
	BN	10 (17.1%)	0.2 (0.4%)
	D	8.4 (14.3%)	0.1 (0.2%)
	C	7.1 (11.7%)	-0.3 (-0.4%)
	AVG	8.8 (15%)	0 (0.1%)
NOV	W	3.7 (6.4%)	-0.2 (-0.3%)
	AN	3.6 (6.3%)	-0.2 (-0.4%)
	BN	4.2 (7.4%)	-0.2 (-0.4%)
	D	3.8 (6.8%)	0 (0%)
	C	3.5 (6%)	-0.1 (-0.2%)
	AVG	3.8 (6.6%)	-0.1 (-0.2%)
DEC	W	2.5 (5.1%)	-0.1 (-0.1%)
	AN	2.6 (5.1%)	-0.1 (-0.2%)
	BN	2.6 (5.2%)	-0.1 (-0.2%)
	D	2.6 (5.3%)	0 (-0.1%)
	C	2.3 (4.7%)	-0.2 (-0.4%)
	AVG	2.6 (5.1%)	-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.

1 **11D.5.16 American River at Watt Avenue**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
3 **American River at Watt Avenue, Year-Round**

Alternative 5: American River at Watt Avenue				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	46	49	49
	C	46	49	49
	AVG	46	49	49
FEB	W	48	52	52
	AN	48	52	52
	BN	48	51	51
	D	49	52	52
	C	51	54	54
	AVG	49	52	52
MAR	W	53	56	56
	AN	53	56	56
	BN	54	56	56
	D	54	57	57
	C	56	58	58
	AVG	54	56	56
APR	W	56	59	59
	AN	58	61	61
	BN	58	61	61
	D	60	63	63
	C	61	64	64
	AVG	58	61	61
MAY	W	61	65	65
	AN	62	67	67
	BN	62	67	66
	D	65	68	68
	C	66	69	69
	AVG	63	67	67
JUN	W	65	68	68
	AN	67	70	69
	BN	67	70	69
	D	69	71	71
	C	69	73	73
	AVG	67	70	70
JUL	W	68	70	70
	AN	67	68	69
	BN	67	69	69
	D	68	71	72
	C	72	76	76
	AVG	68	71	71

Alternative 5: American River at Watt Avenue				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL
AUG	W	68	72	72
	AN	69	72	71
	BN	69	72	72
	D	69	73	74
	C	71	77	77
	AVG	69	73	73
SEP	W	66	69	69
	AN	66	70	70
	BN	67	70	71
	D	67	72	72
	C	69	73	74
	AVG	67	71	71
OCT	W	59	67	67
	AN	60	67	67
	BN	59	68	68
	D	60	67	67
	C	61	68	67
	AVG	60	67	67
NOV	W	56	60	60
	AN	56	60	60
	BN	56	60	59
	D	56	59	59
	C	57	60	60
	AVG	56	60	60
DEC	W	50	52	52
	AN	50	52	52
	BN	49	51	51
	D	49	52	52
	C	49	51	51
	AVG	49	52	52

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the American River at Watt Avenue, Year-Round**

Alternative 5: American River at Watt Avenue			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
JAN	W	3.1 (6.7%)	0 (0.1%)
	AN	2.7 (5.8%)	0 (0%)
	BN	2.9 (6.3%)	0 (0%)
	D	2.7 (5.8%)	-0.1 (-0.1%)
	C	2.8 (6.1%)	-0.1 (-0.2%)
	AVG	2.9 (6.2%)	0 (0%)
FEB	W	3.4 (7.1%)	0 (0%)
	AN	3.7 (7.7%)	0 (0%)
	BN	3.2 (6.6%)	0 (0%)
	D	3.2 (6.5%)	0 (-0.1%)
	C	3.3 (6.5%)	0 (0.1%)
	AVG	3.3 (6.9%)	0 (0%)
MAR	W	3 (5.7%)	0 (0%)
	AN	2.8 (5.4%)	0 (0%)
	BN	2.5 (4.8%)	0 (0%)
	D	3.2 (5.9%)	0 (0%)
	C	2.8 (5%)	0.1 (0.1%)
	AVG	2.9 (5.4%)	0 (0%)
APR	W	2.9 (5.1%)	0 (0%)
	AN	3.1 (5.4%)	0 (0%)
	BN	3 (5.1%)	0 (0%)
	D	2.5 (4.2%)	0 (-0.1%)
	C	3.1 (5.2%)	0.3 (0.5%)
	AVG	2.9 (4.9%)	0 (0.1%)
MAY	W	4.2 (7%)	0 (-0.1%)
	AN	4.6 (7.4%)	-0.2 (-0.3%)
	BN	3.8 (6.1%)	-0.3 (-0.4%)
	D	2.6 (4%)	-0.4 (-0.6%)
	C	3.4 (5.2%)	0.1 (0.1%)
	AVG	3.7 (5.9%)	-0.2 (-0.2%)
JUN	W	2.9 (4.5%)	-0.5 (-0.8%)
	AN	2.5 (3.7%)	-0.5 (-0.7%)
	BN	2.5 (3.8%)	-0.6 (-0.8%)
	D	1.8 (2.6%)	-0.5 (-0.7%)
	C	3.3 (4.8%)	-0.6 (-0.8%)
	AVG	2.6 (3.9%)	-0.5 (-0.8%)
JUL	W	2 (2.9%)	-0.1 (-0.1%)
	AN	1.6 (2.3%)	0.7 (1.1%)
	BN	1.8 (2.7%)	0.1 (0.2%)
	D	3.3 (4.8%)	0.4 (0.6%)
	C	3.9 (5.4%)	0 (0%)
	AVG	2.5 (3.6%)	0.2 (0.3%)

Alternative 5: American River at Watt Avenue			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
AUG	W	4.4 (6.4%)	0.2 (0.3%)
	AN	2.7 (4%)	-0.2 (-0.3%)
	BN	3.4 (4.9%)	0.8 (1.1%)
	D	5.4 (7.9%)	0.8 (1.1%)
	C	5.9 (8.3%)	0.5 (0.7%)
	AVG	4.4 (6.4%)	0.4 (0.6%)
SEP	W	3.3 (5%)	0.3 (0.5%)
	AN	3.4 (5.1%)	-0.1 (-0.1%)
	BN	3.6 (5.4%)	0.3 (0.4%)
	D	5.1 (7.5%)	0.3 (0.4%)
	C	4.4 (6.4%)	0.1 (0.1%)
	AVG	3.9 (5.9%)	0.2 (0.3%)
OCT	W	7.6 (12.9%)	-0.1 (-0.2%)
	AN	7.6 (12.7%)	0.2 (0.2%)
	BN	8.5 (14.3%)	0.2 (0.3%)
	D	6.9 (11.6%)	0.1 (0.2%)
	C	6 (9.8%)	-0.2 (-0.2%)
	AVG	7.4 (12.3%)	0 (0%)
NOV	W	3.4 (5.9%)	-0.2 (-0.4%)
	AN	3.4 (6%)	-0.2 (-0.3%)
	BN	3.8 (6.8%)	-0.2 (-0.4%)
	D	3.5 (6.2%)	0 (0%)
	C	3.3 (5.7%)	-0.1 (-0.2%)
	AVG	3.4 (6.1%)	-0.1 (-0.2%)
DEC	W	2.4 (4.8%)	-0.1 (-0.2%)
	AN	2.4 (4.9%)	-0.1 (-0.2%)
	BN	2.5 (5.1%)	-0.1 (-0.2%)
	D	2.4 (5%)	0 (0%)
	C	2 (4.1%)	-0.3 (-0.6%)
	AVG	2.4 (4.8%)	-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.

1 **11D.5.17 American River at the Confluence with the**
2 **Sacramento River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
4 **American River at the Confluence with the Sacramento River, Year-Round**

Alternative 5: American River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	47	50	50
	AN	46	49	49
	BN	46	48	48
	D	46	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	48	52	52
	AN	48	52	52
	BN	48	51	51
	D	49	52	52
	C	51	55	55
	AVG	49	52	52
MAR	W	53	56	56
	AN	53	56	56
	BN	54	56	56
	D	55	58	58
	C	56	59	59
	AVG	54	57	57
APR	W	57	60	60
	AN	58	61	61
	BN	59	62	62
	D	61	63	63
	C	62	64	65
	AVG	59	62	62
MAY	W	61	66	66
	AN	63	68	68
	BN	63	67	67
	D	66	69	68
	C	67	70	70
	AVG	64	67	67
JUN	W	65	69	68
	AN	68	71	70
	BN	68	71	70
	D	70	72	72
	C	70	74	73
	AVG	68	71	70

Alternative 5: American River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JUL	W	69	71	71
	AN	68	69	70
	BN	68	70	70
	D	69	72	73
	C	73	76	76
	AVG	69	72	72
AUG	W	69	73	74
	AN	69	73	73
	BN	70	73	74
	D	69	74	75
	C	72	77	78
	AVG	70	74	74
SEP	W	66	69	70
	AN	67	70	70
	BN	67	71	71
	D	68	72	73
	C	69	74	74
	AVG	67	71	71
OCT	W	60	67	67
	AN	60	67	67
	BN	60	67	67
	D	60	66	66
	C	62	67	67
	AVG	60	67	67
NOV	W	56	60	59
	AN	56	60	59
	BN	55	59	59
	D	56	59	59
	C	57	60	60
	AVG	56	59	59
DEC	W	49	52	52
	AN	49	52	52
	BN	48	51	51
	D	49	51	51
	C	48	50	50
	AVG	49	51	51

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

Alternative 5: American River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
JAN	W	3.1 (6.7%)	0 (0.1%)
	AN	2.8 (5.9%)	0 (0.1%)
	BN	2.8 (6.2%)	0 (0%)
	D	2.6 (5.6%)	-0.1 (-0.2%)
	C	2.9 (6.2%)	0 (-0.1%)
	AVG	2.9 (6.2%)	0 (0%)
FEB	W	3.4 (7%)	0 (0%)
	AN	3.7 (7.6%)	0 (0%)
	BN	3.1 (6.5%)	0 (0%)
	D	3.1 (6.3%)	0 (-0.1%)
	C	3.2 (6.3%)	0 (0.1%)
	AVG	3.3 (6.7%)	0 (0%)
MAR	W	2.9 (5.5%)	0 (0%)
	AN	2.8 (5.3%)	0 (0%)
	BN	2.5 (4.6%)	0 (0%)
	D	3.1 (5.7%)	0 (0.1%)
	C	2.6 (4.7%)	0.1 (0.1%)
	AVG	2.8 (5.3%)	0 (0%)
APR	W	2.8 (5%)	0 (0%)
	AN	3 (5.2%)	0 (0%)
	BN	2.9 (5%)	0 (0%)
	D	2.5 (4.2%)	0 (-0.1%)
	C	2.9 (4.7%)	0.2 (0.4%)
	AVG	2.8 (4.8%)	0 (0%)
MAY	W	4.3 (7%)	0 (-0.1%)
	AN	4.6 (7.3%)	-0.3 (-0.4%)
	BN	3.8 (6%)	-0.3 (-0.4%)
	D	2.6 (3.9%)	-0.4 (-0.5%)
	C	3.2 (4.8%)	0 (0.1%)
	AVG	3.7 (5.8%)	-0.2 (-0.3%)
JUN	W	3.1 (4.7%)	-0.6 (-0.9%)
	AN	2.5 (3.7%)	-0.5 (-0.7%)
	BN	2.5 (3.7%)	-0.6 (-0.8%)
	D	2 (2.8%)	-0.5 (-0.7%)
	C	3.3 (4.6%)	-0.6 (-0.8%)
	AVG	2.7 (4%)	-0.6 (-0.8%)
JUL	W	2.3 (3.3%)	-0.1 (-0.1%)
	AN	1.8 (2.7%)	0.8 (1.2%)
	BN	2.1 (3.2%)	0.1 (0.2%)
	D	3.5 (5%)	0.3 (0.4%)
	C	3.5 (4.9%)	-0.2 (-0.3%)
	AVG	2.6 (3.8%)	0.1 (0.2%)

Alternative 5: American River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
AUG	W	4.8 (7%)	0.2 (0.3%)
	AN	3.1 (4.5%)	-0.2 (-0.3%)
	BN	3.8 (5.4%)	0.9 (1.2%)
	D	5.5 (7.9%)	0.8 (1.1%)
	C	5.5 (7.6%)	0.4 (0.5%)
	AVG	4.7 (6.7%)	0.4 (0.6%)
SEP	W	3.5 (5.2%)	0.3 (0.5%)
	AN	3.5 (5.3%)	-0.1 (-0.1%)
	BN	4 (5.9%)	0.3 (0.5%)
	D	4.9 (7.2%)	0.2 (0.3%)
	C	4.2 (6%)	0 (0.1%)
	AVG	4 (5.9%)	0.2 (0.3%)
OCT	W	6.8 (11.4%)	-0.1 (-0.2%)
	AN	6.9 (11.5%)	0.1 (0.1%)
	BN	7.6 (12.8%)	0.2 (0.3%)
	D	6.2 (10.3%)	0.1 (0.2%)
	C	5.4 (8.8%)	-0.1 (-0.2%)
	AVG	6.6 (11%)	0 (0%)
NOV	W	3.2 (5.7%)	-0.2 (-0.4%)
	AN	3.3 (5.9%)	-0.2 (-0.3%)
	BN	3.6 (6.4%)	-0.3 (-0.4%)
	D	3.2 (5.8%)	0 (0%)
	C	3.1 (5.5%)	-0.1 (-0.2%)
	AVG	3.3 (5.8%)	-0.2 (-0.3%)
DEC	W	2.3 (4.7%)	-0.1 (-0.2%)
	AN	2.4 (4.9%)	-0.1 (-0.2%)
	BN	2.5 (5.1%)	-0.1 (-0.2%)
	D	2.3 (4.8%)	0 (0%)
	C	1.9 (4%)	-0.3 (-0.5%)
	AVG	2.3 (4.7%)	-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.

1 **11D.5.18 Stanislaus River at Knights Ferry**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
3 **Stanislaus River at Knights Ferry, Year-Round**

Alternative 5: Stanislaus River at Knights Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	48	51	51
	C	49	52	52
	AVG	49	52	52
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	49	52	52
	AN	49	53	53
	BN	51	54	54
	D	51	54	54
	C	52	55	55
	AVG	50	54	54
APR	W	50	53	53
	AN	50	54	54
	BN	51	55	55
	D	52	55	55
	C	53	57	57
	AVG	51	54	54
MAY	W	51	55	55
	AN	53	56	56
	BN	54	57	57
	D	55	58	58
	C	56	59	59
	AVG	53	57	57
JUN	W	54	56	56
	AN	56	59	59
	BN	58	61	61
	D	59	63	63
	C	60	64	64
	AVG	57	60	60
JUL	W	57	59	59
	AN	59	62	62
	BN	60	63	63
	D	61	65	65
	C	62	66	66
	AVG	59	63	63

Alternative 5: Stanislaus River at Knights Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL
AUG	W	58	61	61
	AN	60	63	63
	BN	60	64	64
	D	61	65	65
	C	62	67	67
	AVG	60	64	64
SEP	W	59	62	62
	AN	60	64	64
	BN	61	64	64
	D	62	65	65
	C	63	67	67
	AVG	61	64	64
OCT	W	59	62	62
	AN	59	62	62
	BN	59	62	62
	D	58	62	62
	C	60	64	64
	AVG	59	63	63
NOV	W	56	59	59
	AN	56	59	59
	BN	56	59	59
	D	56	59	59
	C	57	61	61
	AVG	56	60	60
DEC	W	52	55	55
	AN	52	55	55
	BN	51	54	54
	D	51	54	54
	C	52	55	55
	AVG	51	55	55

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Knights Ferry, Year-Round**

Alternative 5: Stanislaus River at Knights Ferry			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
JAN	W	3.1 (6.3%)	0 (0%)
	AN	3.1 (6.4%)	0 (0%)
	BN	3.1 (6.4%)	0 (0%)
	D	3 (6.3%)	0 (0%)
	C	3.1 (6.2%)	0 (0%)
	AVG	3.1 (6.3%)	0 (0%)
FEB	W	3.1 (6.4%)	0 (0%)
	AN	3.2 (6.5%)	0 (0%)
	BN	3 (6.2%)	0 (0%)
	D	3.2 (6.5%)	0 (0%)
	C	3.1 (6.2%)	0 (0%)
	AVG	3.1 (6.4%)	0 (0%)
MAR	W	3.2 (6.6%)	0 (0%)
	AN	3.6 (7.3%)	0 (0%)
	BN	3.1 (6.1%)	0 (0%)
	D	3.3 (6.5%)	0 (0%)
	C	3 (5.8%)	0 (0%)
	AVG	3.3 (6.5%)	0 (0%)
APR	W	3.1 (6.2%)	0 (0%)
	AN	3.3 (6.6%)	0 (0%)
	BN	3.4 (6.6%)	0 (0%)
	D	3.5 (6.7%)	0 (0%)
	C	3.6 (6.7%)	0 (0%)
	AVG	3.3 (6.5%)	0 (0%)
MAY	W	3 (5.9%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)
	BN	3.5 (6.5%)	0 (0%)
	D	3.4 (6.2%)	0 (0%)
	C	3.3 (5.9%)	0 (0%)
	AVG	3.2 (6%)	0 (0%)
JUN	W	2.6 (4.8%)	0 (0%)
	AN	3.3 (6%)	0 (0%)
	BN	3.6 (6.3%)	0 (0%)
	D	3.8 (6.5%)	0 (0%)
	C	4.1 (6.9%)	0 (0%)
	AVG	3.4 (6%)	0 (0%)
JUL	W	2.5 (4.4%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)
	BN	3.5 (5.9%)	0 (0%)
	D	3.7 (6.1%)	0 (0%)
	C	4.1 (6.6%)	0 (0%)
	AVG	3.3 (5.6%)	0 (0%)

Alternative 5: Stanislaus River at Knights Ferry			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
AUG	W	3.4 (5.8%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)
	BN	3.5 (5.8%)	0 (0%)
	D	3.6 (5.8%)	0 (0%)
	C	4.3 (6.9%)	0 (0%)
	AVG	3.6 (6%)	0 (0%)
SEP	W	3.5 (6%)	0 (0%)
	AN	3.6 (6%)	0 (0%)
	BN	3.6 (5.9%)	0 (0%)
	D	3.7 (6%)	0 (0%)
	C	4 (6.3%)	0.1 (0.1%)
	AVG	3.7 (6%)	0 (0%)
OCT	W	3.5 (5.9%)	0 (0%)
	AN	3 (5.1%)	0 (0%)
	BN	3.3 (5.6%)	0 (0%)
	D	3.4 (5.9%)	0 (0%)
	C	3.7 (6.1%)	0 (0%)
	AVG	3.4 (5.7%)	0 (0%)
NOV	W	3.3 (5.8%)	0 (0%)
	AN	3.1 (5.5%)	0 (0%)
	BN	3.3 (5.8%)	0 (0%)
	D	3.4 (6%)	0 (0%)
	C	3.5 (6%)	0 (0%)
	AVG	3.3 (5.8%)	0 (0%)
DEC	W	3.3 (6.4%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)
	BN	3.3 (6.4%)	0 (0%)
	D	3.2 (6.2%)	0 (0%)
	C	3.3 (6.4%)	0 (0%)
	AVG	3.2 (6.3%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.5.19 Stanislaus River at Orange Blossom Bridge**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
3 **Stanislaus River at Orange Blossom Bridge, Year-Round**

Alternative 5: Stanislaus River at Orange Blossom Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	48	51	51
	AN	48	51	51
	BN	48	51	51
	D	47	50	50
	C	48	51	51
	AVG	48	51	51
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	49	53	53
	AN	50	54	54
	BN	52	55	55
	D	52	56	56
	C	53	56	56
	AVG	51	54	54
APR	W	50	53	53
	AN	51	54	54
	BN	52	56	56
	D	53	56	56
	C	55	58	58
	AVG	52	55	55
MAY	W	53	56	56
	AN	54	57	57
	BN	55	59	59
	D	56	60	60
	C	58	61	61
	AVG	55	58	58
JUN	W	56	58	58
	AN	58	62	62
	BN	60	64	64
	D	62	66	66
	C	63	67	67
	AVG	59	63	63
JUL	W	60	62	62
	AN	63	66	66
	BN	63	67	67
	D	64	68	68
	C	65	69	69
	AVG	63	66	66

Alternative 5: Stanislaus River at Orange Blossom Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL
AUG	W	60	64	64
	AN	63	66	66
	BN	63	66	66
	D	64	68	68
	C	65	69	69
	AVG	63	66	66
SEP	W	60	64	64
	AN	63	66	66
	BN	63	67	67
	D	63	67	67
	C	64	68	68
	AVG	62	66	66
OCT	W	59	62	62
	AN	59	62	62
	BN	59	62	62
	D	59	62	62
	C	60	64	64
	AVG	59	62	62
NOV	W	55	58	58
	AN	55	58	58
	BN	55	58	58
	D	55	58	58
	C	56	59	59
	AVG	55	58	58
DEC	W	50	54	53
	AN	50	53	53
	BN	49	53	53
	D	50	52	52
	C	50	53	53
	AVG	50	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Orange Blossom Bridge, Year-Round**

Alternative 5: Stanislaus River at Orange Blossom Bridge			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
JAN	W	3 (6.2%)	0 (0%)
	AN	3 (6.3%)	0 (0%)
	BN	2.9 (6.1%)	0 (0%)
	D	2.8 (5.9%)	0 (0%)
	C	2.8 (5.8%)	0 (0%)
	AVG	2.9 (6.1%)	0 (0%)
FEB	W	3.1 (6.3%)	0 (0%)
	AN	3.1 (6.3%)	0 (0%)
	BN	3 (6%)	0 (0%)
	D	3.2 (6.5%)	0 (0%)
	C	3.2 (6.3%)	0 (0%)
	AVG	3.1 (6.3%)	0 (0%)
MAR	W	3.2 (6.4%)	0 (0%)
	AN	3.7 (7.3%)	0 (0%)
	BN	3 (5.8%)	0 (0%)
	D	3.4 (6.6%)	0 (0%)
	C	3.1 (5.8%)	0 (0%)
	AVG	3.3 (6.4%)	0 (0%)
APR	W	3.1 (6.1%)	0 (0%)
	AN	3.3 (6.5%)	0 (0%)
	BN	3.5 (6.7%)	0 (0%)
	D	3.6 (6.8%)	0 (0%)
	C	3.6 (6.6%)	0 (0%)
	AVG	3.4 (6.5%)	0 (0%)
MAY	W	3.2 (6%)	0 (0%)
	AN	3.3 (6%)	0 (0%)
	BN	3.9 (7.1%)	0 (0%)
	D	3.6 (6.5%)	0 (0%)
	C	3.5 (6%)	0 (0%)
	AVG	3.4 (6.2%)	0 (0%)
JUN	W	2.3 (4.1%)	0 (0%)
	AN	3.8 (6.6%)	0 (0%)
	BN	3.9 (6.5%)	0 (0%)
	D	4.3 (6.9%)	0 (0%)
	C	4.1 (6.6%)	0 (0.1%)
	AVG	3.5 (5.9%)	0 (0%)
JUL	W	2.1 (3.5%)	0 (0%)
	AN	3.6 (5.7%)	0 (0%)
	BN	3.5 (5.6%)	0 (0%)
	D	3.8 (5.9%)	0 (0%)
	C	4 (6.2%)	0 (0%)
	AVG	3.2 (5.2%)	0 (0%)

Alternative 5: Stanislaus River at Orange Blossom Bridge			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
AUG	W	3.9 (6.4%)	0 (0%)
	AN	3.5 (5.7%)	0 (0%)
	BN	3.5 (5.5%)	0 (0%)
	D	3.5 (5.5%)	0 (0%)
	C	4.2 (6.5%)	0 (0%)
	AVG	3.7 (6%)	0 (0%)
SEP	W	3.8 (6.3%)	0 (0%)
	AN	3.9 (6.2%)	0 (0%)
	BN	3.7 (6%)	0 (0%)
	D	3.7 (5.9%)	0 (0%)
	C	3.8 (6%)	-0.1 (-0.1%)
	AVG	3.8 (6.1%)	0 (0%)
OCT	W	3.3 (5.6%)	0 (0%)
	AN	3 (5.1%)	0 (0%)
	BN	3.2 (5.4%)	0 (0%)
	D	3.4 (5.7%)	0 (0%)
	C	3.6 (5.9%)	0 (0%)
	AVG	3.3 (5.6%)	0 (0%)
NOV	W	3.1 (5.7%)	0 (0%)
	AN	3 (5.5%)	0 (0%)
	BN	3.2 (5.8%)	0 (0%)
	D	3.2 (5.9%)	0 (0%)
	C	3.2 (5.7%)	0 (0%)
	AVG	3.1 (5.7%)	0 (0%)
DEC	W	3.1 (6.3%)	0 (-0.1%)
	AN	2.9 (5.9%)	0 (0%)
	BN	3.3 (6.6%)	0 (0%)
	D	3 (6%)	0 (0%)
	C	3.1 (6.2%)	0 (0%)
	AVG	3.1 (6.2%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.5.20 Stanislaus River at Riverbank**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
3 **Stanislaus River at Riverbank, Year-Round**

Alternative 5: Stanislaus River at Riverbank				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	45	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	50	53	53
	BN	50	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	51	54	54
	AN	52	55	55
	BN	53	56	56
	D	54	57	57
	C	54	57	57
	AVG	52	56	56
APR	W	52	55	55
	AN	53	56	56
	BN	54	57	57
	D	54	58	58
	C	57	60	60
	AVG	54	57	57
MAY	W	56	59	59
	AN	57	60	60
	BN	58	62	62
	D	59	62	62
	C	60	64	64
	AVG	58	61	61
JUN	W	60	62	62
	AN	62	66	66
	BN	64	68	68
	D	66	70	70
	C	66	70	70
	AVG	63	67	67
JUL	W	65	67	67
	AN	68	71	71
	BN	68	71	71
	D	68	72	72
	C	68	72	72
	AVG	67	70	70

Alternative 5: Stanislaus River at Riverbank				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL
AUG	W	65	69	69
	AN	67	70	70
	BN	67	70	70
	D	68	71	71
	C	67	71	71
	AVG	66	70	70
SEP	W	64	67	67
	AN	66	70	70
	BN	66	69	69
	D	66	70	70
	C	66	70	69
	AVG	65	69	69
OCT	W	59	63	63
	AN	59	62	62
	BN	59	62	62
	D	59	62	62
	C	61	64	64
	AVG	60	63	63
NOV	W	53	56	56
	AN	53	56	56
	BN	53	56	56
	D	53	56	56
	C	54	57	57
	AVG	53	56	56
DEC	W	48	51	51
	AN	48	50	50
	BN	47	50	50
	D	47	50	50
	C	47	50	50
	AVG	47	50	50

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Riverbank, Year-Round**

Alternative 5: Stanislaus River at Riverbank			
Month	WYT	EXISTING CONDITIONS vs. A5_LL1	NAA vs. A5_LL1
JAN	W	2.9 (6.3%)	0 (0%)
	AN	3 (6.4%)	0 (0%)
	BN	2.8 (6%)	0 (0%)
	D	2.5 (5.6%)	0 (0%)
	C	2.7 (5.8%)	0 (0%)
	AVG	2.8 (6.1%)	0 (0%)
FEB	W	2.9 (5.9%)	0 (0%)
	AN	2.9 (5.8%)	0 (0%)
	BN	2.7 (5.5%)	0 (0%)
	D	3 (6.1%)	0 (0%)
	C	3.1 (6%)	0 (0%)
	AVG	2.9 (5.9%)	0 (0%)
MAR	W	3 (5.9%)	0 (0%)
	AN	3.6 (7%)	0 (0%)
	BN	2.8 (5.3%)	0 (0%)
	D	3.4 (6.4%)	0 (0%)
	C	3 (5.6%)	0 (0%)
	AVG	3.2 (6%)	0 (0%)
APR	W	3 (5.7%)	0 (0%)
	AN	3.2 (6.1%)	0 (0%)
	BN	3.6 (6.6%)	0 (0%)
	D	3.6 (6.7%)	0 (0%)
	C	3.6 (6.3%)	0 (0%)
	AVG	3.3 (6.2%)	0 (0%)
MAY	W	3.2 (5.8%)	0 (0%)
	AN	3.4 (6%)	0 (0%)
	BN	4.3 (7.4%)	0 (0%)
	D	3.9 (6.6%)	0 (0%)
	C	3.5 (5.8%)	0 (0%)
	AVG	3.6 (6.2%)	0 (0%)
JUN	W	2 (3.4%)	0 (0%)
	AN	4 (6.4%)	0 (0%)
	BN	3.7 (5.7%)	0 (0%)
	D	4 (6.1%)	0 (0%)
	C	3.7 (5.6%)	0.1 (0.1%)
	AVG	3.3 (5.2%)	0 (0%)
JUL	W	1.8 (2.8%)	0 (0%)
	AN	3.3 (4.8%)	0 (0%)
	BN	3.1 (4.5%)	0 (0%)
	D	3.6 (5.3%)	0 (0%)
	C	3.5 (5.1%)	0 (0%)
	AVG	2.9 (4.3%)	0 (0%)

Alternative 5: Stanislaus River at Riverbank			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
AUG	W	4.1 (6.4%)	0 (0%)
	AN	3.4 (5.1%)	0 (0%)
	BN	3.2 (4.8%)	0 (0%)
	D	3.3 (4.9%)	0 (0%)
	C	3.8 (5.6%)	0 (0%)
	AVG	3.6 (5.5%)	0 (0%)
SEP	W	3.9 (6.2%)	0 (0%)
	AN	3.9 (5.9%)	0 (0%)
	BN	3.7 (5.7%)	0 (0%)
	D	3.7 (5.6%)	0 (0%)
	C	3.6 (5.5%)	-0.2 (-0.2%)
	AVG	3.8 (5.8%)	0 (0%)
OCT	W	3.1 (5.2%)	0 (0%)
	AN	2.9 (4.9%)	0 (0%)
	BN	2.9 (4.9%)	0 (0%)
	D	3.1 (5.2%)	0 (0%)
	C	3.3 (5.5%)	0 (0%)
	AVG	3.1 (5.2%)	0 (0%)
NOV	W	3 (5.7%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)
	BN	3.1 (5.8%)	0 (0%)
	D	3.1 (5.8%)	0 (0%)
	C	3 (5.6%)	0 (0%)
	AVG	3.1 (5.7%)	0 (0%)
DEC	W	3 (6.3%)	-0.1 (-0.2%)
	AN	2.9 (6.1%)	0 (0%)
	BN	3.3 (7%)	0 (0%)
	D	2.8 (5.9%)	0 (0%)
	C	2.9 (6.2%)	0 (0%)
	AVG	3 (6.3%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.5.21 Stanislaus River at the Confluence with the San**
 2 **Joaquin River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 5 Model Scenarios in the**
 4 **Stanislaus River at the Confluence with the San Joaquin River, Year-Round**

Alternative 5: Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JAN	W	46	49	49
	AN	46	49	49
	BN	46	49	49
	D	45	47	47
	C	45	48	48
	AVG	46	48	48
FEB	W	50	53	53
	AN	50	53	53
	BN	50	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	52	55	55
	AN	53	56	56
	BN	54	57	57
	D	55	58	58
	C	55	58	58
	AVG	54	56	56
APR	W	54	57	57
	AN	55	58	58
	BN	56	60	60
	D	57	60	60
	C	59	62	62
	AVG	56	59	59
MAY	W	59	62	62
	AN	60	63	63
	BN	60	64	64
	D	61	65	65
	C	63	66	66
	AVG	60	64	64
JUN	W	62	65	65
	AN	65	69	69
	BN	66	70	70
	D	68	72	72
	C	68	71	71
	AVG	65	69	69

Alternative 5: Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT	EXISTING CONDITIONS	NAA	A5_LL1
JUL	W	68	70	70
	AN	70	73	73
	BN	70	73	73
	D	70	74	74
	C	70	73	73
	AVG	69	72	72
AUG	W	67	71	71
	AN	69	72	72
	BN	68	71	71
	D	69	72	72
	C	69	72	72
	AVG	68	72	72
SEP	W	65	69	69
	AN	67	71	71
	BN	67	70	70
	D	67	70	70
	C	67	70	70
	AVG	66	70	70
OCT	W	60	63	63
	AN	60	62	62
	BN	59	62	62
	D	59	62	62
	C	61	64	64
	AVG	60	63	63
NOV	W	53	56	56
	AN	52	55	55
	BN	52	55	55
	D	52	55	55
	C	53	56	56
	AVG	52	55	55
DEC	W	47	50	50
	AN	46	49	49
	BN	45	49	49
	D	45	48	48
	C	45	48	48
	AVG	46	49	49

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

Alternative 5: Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
JAN	W	2.9 (6.3%)	0 (0%)
	AN	2.9 (6.4%)	0 (0%)
	BN	2.8 (6.1%)	0 (0%)
	D	2.5 (5.7%)	0 (0%)
	C	2.8 (6.1%)	0 (0%)
	AVG	2.8 (6.2%)	0 (0%)
FEB	W	2.8 (5.7%)	0 (0%)
	AN	2.8 (5.6%)	0 (0%)
	BN	2.6 (5.2%)	0 (0%)
	D	2.8 (5.6%)	0 (0%)
	C	2.9 (5.6%)	0 (0%)
	AVG	2.8 (5.6%)	0 (0%)
MAR	W	2.8 (5.5%)	0 (0%)
	AN	3.3 (6.3%)	0 (0%)
	BN	2.6 (4.9%)	0 (0%)
	D	3.2 (5.8%)	0 (0%)
	C	2.8 (5.1%)	0 (0%)
	AVG	3 (5.5%)	0 (0%)
APR	W	2.8 (5.2%)	0 (0%)
	AN	3.1 (5.6%)	0 (0%)
	BN	3.4 (6.1%)	0 (0%)
	D	3.5 (6.1%)	0 (0%)
	C	3.2 (5.5%)	0 (0%)
	AVG	3.1 (5.6%)	0 (0%)
MAY	W	3.1 (5.3%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)
	BN	4.1 (6.8%)	0 (0%)
	D	3.7 (6%)	0 (0%)
	C	3.2 (5.1%)	0 (0%)
	AVG	3.4 (5.7%)	0 (0%)
JUN	W	2.3 (3.6%)	0 (0%)
	AN	3.7 (5.8%)	0 (0%)
	BN	3.3 (5.1%)	0 (0%)
	D	3.4 (5%)	0 (0%)
	C	3.3 (4.8%)	0 (0.1%)
	AVG	3.1 (4.7%)	0 (0%)
JUL	W	2.3 (3.3%)	0 (0%)
	AN	3 (4.2%)	0 (0%)
	BN	2.8 (4%)	0 (0%)
	D	3.2 (4.5%)	0 (0%)
	C	3.1 (4.5%)	0 (0%)
	AVG	2.8 (4%)	0 (0%)

Alternative 5: Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT	EXISTING CONDITIONS vs. A5_LLT	NAA vs. A5_LLT
AUG	W	4.1 (6.1%)	0 (0%)
	AN	3.2 (4.7%)	0 (0%)
	BN	3.1 (4.5%)	0 (0%)
	D	3.1 (4.5%)	0 (0%)
	C	3.6 (5.2%)	0 (0%)
	AVG	3.5 (5.1%)	0 (0%)
SEP	W	3.9 (6%)	0 (0%)
	AN	3.7 (5.6%)	0 (0%)
	BN	3.7 (5.5%)	0 (0%)
	D	3.7 (5.5%)	0 (0%)
	C	3.5 (5.3%)	-0.2 (-0.2%)
	AVG	3.7 (5.6%)	0 (0%)
OCT	W	3 (5%)	0 (0%)
	AN	2.8 (4.8%)	0 (0%)
	BN	2.7 (4.5%)	0 (0%)
	D	2.9 (4.9%)	0 (0%)
	C	3.2 (5.3%)	0 (0%)
	AVG	2.9 (4.9%)	0 (0%)
NOV	W	3 (5.8%)	0 (0%)
	AN	3.2 (6%)	0 (0%)
	BN	3.1 (5.9%)	0 (0%)
	D	3.1 (5.9%)	0 (0%)
	C	2.9 (5.6%)	0 (0%)
	AVG	3.1 (5.8%)	0 (0%)
DEC	W	3 (6.4%)	-0.1 (-0.1%)
	AN	2.9 (6.2%)	0 (0%)
	BN	3.2 (7.1%)	0 (0%)
	D	2.8 (6.1%)	0 (0%)
	C	2.9 (6.4%)	0 (0%)
	AVG	3 (6.4%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.6 Alternative 6A**

2 **11D.6.1 Sacramento River at Keswick**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
4 **the Sacramento River at Keswick, Year-Round**

Alternative 6A: Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	46	47	47
	AN	46	48	48
	BN	47	48	48
	D	47	48	48
	C	47	48	48
	AVG	46	48	48
FEB	W	45	47	47
	AN	46	47	47
	BN	46	47	47
	D	46	48	48
	C	46	48	48
	AVG	46	47	47
MAR	W	46	47	47
	AN	46	48	48
	BN	47	48	48
	D	47	49	49
	C	48	50	50
	AVG	47	48	48
APR	W	47	49	49
	AN	48	50	50
	BN	48	50	50
	D	48	50	50
	C	49	51	51
	AVG	48	50	50
MAY	W	49	50	50
	AN	49	51	51
	BN	49	51	51
	D	49	51	51
	C	51	53	53
	AVG	49	51	51
JUN	W	50	51	51
	AN	50	51	51
	BN	50	51	51
	D	50	52	52
	C	53	55	55
	AVG	50	52	52

Alternative 6A: Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JUL	W	51	52	52
	AN	51	52	52
	BN	51	52	52
	D	51	54	53
	C	54	59	59
	AVG	51	53	53
AUG	W	52	54	54
	AN	52	54	54
	BN	52	54	54
	D	53	56	56
	C	57	64	64
	AVG	53	56	56
SEP	W	53	55	55
	AN	54	56	56
	BN	54	56	57
	D	55	59	59
	C	60	66	66
	AVG	55	58	58
OCT	W	54	57	56
	AN	54	57	56
	BN	54	57	57
	D	55	58	58
	C	56	60	60
	AVG	54	58	57
NOV	W	53	55	55
	AN	52	55	54
	BN	53	55	55
	D	53	56	55
	C	54	56	56
	AVG	53	55	55
DEC	W	49	50	51
	AN	49	51	51
	BN	50	52	52
	D	50	52	52
	C	51	52	52
	AVG	50	51	51

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

Alternative 6A: Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLТ	NAA vs. A6A_LLТ
JAN	W	1.4 (3.1%)	0.1 (0.2%)
	AN	1.5 (3.3%)	0.1 (0.2%)
	BN	1.6 (3.4%)	-0.1 (-0.2%)
	D	1.7 (3.6%)	0.1 (0.1%)
	C	1.7 (3.7%)	-0.1 (-0.2%)
	AVG	1.6 (3.4%)	0 (0%)
FEB	W	1.6 (3.5%)	0.1 (0.1%)
	AN	1.7 (3.8%)	0.1 (0.3%)
	BN	1.5 (3.3%)	0 (-0.1%)
	D	1.7 (3.7%)	0 (0%)
	C	1.7 (3.7%)	-0.1 (-0.1%)
	AVG	1.6 (3.6%)	0 (0.1%)
MAR	W	1.5 (3.4%)	0.1 (0.1%)
	AN	1.8 (3.9%)	0.2 (0.4%)
	BN	1.5 (3.3%)	0 (0%)
	D	1.7 (3.5%)	0 (0%)
	C	1.9 (4%)	0 (0%)
	AVG	1.7 (3.6%)	0 (0.1%)
APR	W	1.8 (3.7%)	0.1 (0.2%)
	AN	1.8 (3.7%)	0.1 (0.1%)
	BN	1.6 (3.4%)	0.3 (0.5%)
	D	1.6 (3.4%)	0.1 (0.1%)
	C	2 (4%)	-0.1 (-0.3%)
	AVG	1.7 (3.6%)	0.1 (0.2%)
MAY	W	1.6 (3.4%)	-0.1 (-0.2%)
	AN	1.3 (2.7%)	0 (0%)
	BN	1.7 (3.4%)	0.3 (0.6%)
	D	1.6 (3.2%)	0.1 (0.1%)
	C	2 (3.9%)	-0.1 (-0.1%)
	AVG	1.6 (3.3%)	0 (0%)
JUN	W	0.9 (1.9%)	0 (-0.1%)
	AN	1.3 (2.6%)	0 (0.1%)
	BN	1.3 (2.6%)	0.1 (0.1%)
	D	1.9 (3.8%)	0 (0.1%)
	C	2.1 (4%)	0 (0%)
	AVG	1.4 (2.8%)	0 (0%)
JUL	W	1 (1.9%)	0.1 (0.1%)
	AN	1.5 (2.9%)	0.1 (0.2%)
	BN	1.5 (3%)	0.2 (0.3%)
	D	2.2 (4.4%)	-0.1 (-0.2%)
	C	4.6 (8.4%)	-0.6 (-1%)
	AVG	1.9 (3.8%)	-0.1 (-0.1%)

Alternative 6A: Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	2 (3.9%)	0.1 (0.1%)
	AN	2 (3.8%)	0.1 (0.2%)
	BN	2.5 (4.9%)	0.2 (0.3%)
	D	3.3 (6.2%)	0.3 (0.5%)
	C	7.4 (13.1%)	-0.1 (-0.1%)
	AVG	3.2 (6%)	0.1 (0.2%)
SEP	W	2.1 (3.9%)	0.4 (0.8%)
	AN	2.1 (3.9%)	-0.1 (-0.3%)
	BN	3.1 (5.8%)	0.4 (0.8%)
	D	4.1 (7.4%)	-0.4 (-0.6%)
	C	5.5 (9.1%)	-0.5 (-0.7%)
	AVG	3.2 (5.8%)	0 (0.1%)
OCT	W	2.5 (4.6%)	-0.6 (-1%)
	AN	2.5 (4.6%)	-0.3 (-0.5%)
	BN	3.2 (5.8%)	0.1 (0.2%)
	D	3.1 (5.6%)	-0.4 (-0.7%)
	C	3.4 (6%)	-0.4 (-0.7%)
	AVG	2.9 (5.3%)	-0.3 (-0.6%)
NOV	W	2.2 (4.1%)	-0.1 (-0.2%)
	AN	2.1 (3.9%)	-0.1 (-0.3%)
	BN	2.4 (4.5%)	-0.1 (-0.1%)
	D	2.3 (4.3%)	-0.1 (-0.1%)
	C	2.2 (4.1%)	-0.3 (-0.5%)
	AVG	2.2 (4.2%)	-0.1 (-0.2%)
DEC	W	1.4 (2.9%)	0.2 (0.3%)
	AN	1.8 (3.6%)	0 (0%)
	BN	1.8 (3.6%)	-0.2 (-0.4%)
	D	1.8 (3.6%)	-0.1 (-0.3%)
	C	1.8 (3.6%)	-0.1 (-0.2%)
	AVG	1.7 (3.4%)	0 (-0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.6.2 Sacramento River at Jelly’s Ferry**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
3 **the Sacramento River at Jelly’s Ferry, Year-Round**

Alternative 6A: Sacramento River at Jelly’s Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	45	46	46
	D	45	47	47
	C	45	47	47
	AVG	45	47	47
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	47
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	49	50
	AN	49	51	51
	BN	49	51	51
	D	50	51	51
	C	50	52	52
	AVG	49	51	51
APR	W	51	53	53
	AN	53	55	55
	BN	53	54	55
	D	52	54	54
	C	52	54	54
	AVG	52	54	54
MAY	W	54	57	57
	AN	55	57	56
	BN	54	57	57
	D	54	56	56
	C	55	57	57
	AVG	54	57	56
JUN	W	55	56	56
	AN	55	56	56
	BN	54	56	56
	D	54	56	56
	C	56	58	58
	AVG	55	56	56
JUL	W	56	57	56
	AN	55	56	56
	BN	55	56	56
	D	55	57	57
	C	57	62	62
	AVG	55	57	57

Alternative 6A: Sacramento River at Jelly's Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL
AUG	W	56	59	58
	AN	56	58	59
	BN	56	58	59
	D	56	59	60
	C	59	67	66
	AVG	57	60	60
SEP	W	56	57	58
	AN	57	59	59
	BN	57	60	61
	D	58	63	62
	C	61	67	67
	AVG	58	61	61
OCT	W	54	57	57
	AN	54	57	57
	BN	55	57	58
	D	55	58	58
	C	56	60	59
	AVG	55	58	58
NOV	W	51	53	53
	AN	51	53	53
	BN	51	54	53
	D	51	54	54
	C	52	55	54
	AVG	51	53	53
DEC	W	47	48	48
	AN	47	48	48
	BN	47	49	49
	D	47	49	48
	C	47	49	49
	AVG	47	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Jelly’s Ferry, Year-Round**

Alternative 6A: Sacramento River at Jelly’s Ferry			
Month	WYT	EXISTING CONDITIONS	
		vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	1.5 (3.3%)	0.1 (0.2%)
	AN	1.6 (3.5%)	0.1 (0.1%)
	BN	1.7 (3.7%)	0 (-0.1%)
	D	1.8 (4%)	0 (-0.1%)
	C	1.9 (4.3%)	-0.2 (-0.5%)
	AVG	1.7 (3.7%)	0 (0%)
FEB	W	1.6 (3.5%)	0 (0.1%)
	AN	1.7 (3.6%)	0.1 (0.1%)
	BN	1.6 (3.5%)	0 (-0.1%)
	D	1.9 (4%)	0 (0%)
	C	1.8 (3.9%)	-0.1 (-0.3%)
	AVG	1.7 (3.7%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0.1%)
	AN	1.6 (3.3%)	0.1 (0.1%)
	BN	1.7 (3.6%)	0.1 (0.1%)
	D	1.6 (3.3%)	0 (-0.1%)
	C	1.8 (3.7%)	0 (0.1%)
	AVG	1.6 (3.3%)	0 (0.1%)
APR	W	1.8 (3.5%)	0 (0.1%)
	AN	1.8 (3.5%)	-0.1 (-0.1%)
	BN	2 (3.7%)	0.2 (0.4%)
	D	1.9 (3.6%)	0.1 (0.1%)
	C	2 (3.9%)	0 (0%)
	AVG	1.9 (3.6%)	0.1 (0.1%)
MAY	W	2.6 (4.8%)	-0.3 (-0.6%)
	AN	1.5 (2.7%)	-0.2 (-0.3%)
	BN	2.4 (4.3%)	0.2 (0.4%)
	D	1.8 (3.4%)	0 (0%)
	C	1.9 (3.4%)	-0.1 (-0.1%)
	AVG	2.1 (3.9%)	-0.1 (-0.2%)
JUN	W	1.2 (2.2%)	-0.2 (-0.3%)
	AN	1.4 (2.5%)	0 (0%)
	BN	1.7 (3.1%)	0.1 (0.2%)
	D	2 (3.8%)	0.1 (0.2%)
	C	2 (3.6%)	0 (0%)
	AVG	1.6 (3%)	0 (0%)
JUL	W	0.9 (1.6%)	-0.1 (-0.2%)
	AN	1.6 (2.9%)	0.2 (0.3%)
	BN	1.8 (3.2%)	0.1 (0.2%)
	D	2.2 (4.1%)	-0.2 (-0.3%)
	C	4.4 (7.6%)	-0.7 (-1.1%)
	AVG	1.9 (3.5%)	-0.1 (-0.2%)

Alternative 6A: Sacramento River at Jelly's Ferry			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	2.3 (4.1%)	-0.2 (-0.4%)
	AN	2.3 (4.1%)	0.4 (0.7%)
	BN	3 (5.4%)	0.4 (0.7%)
	D	3.6 (6.3%)	0.5 (0.8%)
	C	7 (11.8%)	-0.1 (-0.2%)
	AVG	3.4 (6%)	0.1 (0.2%)
SEP	W	1.9 (3.3%)	0.6 (1.1%)
	AN	1.7 (2.9%)	0.4 (0.6%)
	BN	3.7 (6.5%)	0.8 (1.4%)
	D	4.6 (7.9%)	-0.3 (-0.5%)
	C	5 (8.2%)	-0.3 (-0.4%)
	AVG	3.2 (5.6%)	0.3 (0.5%)
OCT	W	2.4 (4.5%)	-0.4 (-0.7%)
	AN	2.4 (4.5%)	-0.1 (-0.2%)
	BN	3 (5.5%)	0.1 (0.2%)
	D	2.8 (5.1%)	-0.4 (-0.6%)
	C	3.1 (5.4%)	-0.3 (-0.6%)
	AVG	2.7 (4.9%)	-0.3 (-0.5%)
NOV	W	2.1 (4.2%)	-0.2 (-0.4%)
	AN	2 (4%)	-0.2 (-0.3%)
	BN	2.4 (4.7%)	-0.1 (-0.3%)
	D	2.2 (4.3%)	0 (-0.1%)
	C	2.2 (4.3%)	-0.1 (-0.3%)
	AVG	2.2 (4.3%)	-0.1 (-0.3%)
DEC	W	1.3 (2.8%)	0.2 (0.3%)
	AN	1.8 (3.9%)	0 (0%)
	BN	1.7 (3.7%)	-0.2 (-0.3%)
	D	1.7 (3.7%)	-0.2 (-0.4%)
	C	1.9 (4%)	-0.1 (-0.1%)
	AVG	1.6 (3.5%)	0 (-0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.6.3 Sacramento River at Bend Bridge**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
3 **the Sacramento River at Bend Bridge, Year-Round**

Alternative 6A: Sacramento River at Bend Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	45	46	46
	D	45	47	47
	C	45	47	47
	AVG	45	47	47
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	47
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	50	50
	AN	49	51	51
	BN	49	51	51
	D	50	52	52
	C	50	52	52
	AVG	49	51	51
APR	W	51	53	53
	AN	53	55	55
	BN	53	55	55
	D	53	55	55
	C	52	54	55
	AVG	52	54	54
MAY	W	54	57	57
	AN	55	57	57
	BN	55	57	57
	D	55	56	56
	C	55	57	57
	AVG	55	57	57
JUN	W	56	57	57
	AN	55	57	57
	BN	55	57	57
	D	55	57	57
	C	57	59	59
	AVG	55	57	57
JUL	W	56	57	57
	AN	55	57	57
	BN	55	57	57
	D	56	58	58
	C	58	63	62
	AVG	56	58	58

Alternative 6A: Sacramento River at Bend Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LLТ
AUG	W	57	59	59
	AN	57	59	59
	BN	56	59	59
	D	57	60	61
	C	60	67	67
	AVG	57	60	61
SEP	W	57	58	58
	AN	58	59	60
	BN	58	60	61
	D	58	63	63
	C	62	67	67
	AVG	58	61	61
OCT	W	54	57	57
	AN	55	57	57
	BN	55	58	58
	D	55	58	58
	C	56	60	59
	AVG	55	58	58
NOV	W	51	53	53
	AN	51	53	53
	BN	51	53	53
	D	51	54	53
	C	52	54	54
	AVG	51	53	53
DEC	W	47	48	48
	AN	46	48	48
	BN	47	49	48
	D	46	48	48
	C	47	49	49
	AVG	47	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Bend Bridge, Year-Round**

Alternative 6A: Sacramento River at Bend Bridge			
Month	WYT	EXISTING CONDITIONS	
		vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	1.5 (3.4%)	0.1 (0.2%)
	AN	1.6 (3.6%)	0.1 (0.1%)
	BN	1.7 (3.8%)	0 (-0.1%)
	D	1.8 (4.1%)	0 (-0.1%)
	C	2 (4.5%)	-0.2 (-0.5%)
	AVG	1.7 (3.8%)	0 (0%)
FEB	W	1.6 (3.5%)	0 (0.1%)
	AN	1.7 (3.6%)	0.1 (0.1%)
	BN	1.7 (3.6%)	0 (-0.1%)
	D	1.9 (4.1%)	0 (0%)
	C	1.9 (4%)	-0.1 (-0.3%)
	AVG	1.7 (3.8%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0.1%)
	AN	1.6 (3.3%)	0 (0.1%)
	BN	1.8 (3.6%)	0.1 (0.1%)
	D	1.7 (3.3%)	0 (-0.1%)
	C	1.9 (3.7%)	0 (0.1%)
	AVG	1.6 (3.4%)	0 (0.1%)
APR	W	1.8 (3.6%)	0 (0.1%)
	AN	1.9 (3.5%)	-0.1 (-0.1%)
	BN	2 (3.8%)	0.2 (0.4%)
	D	1.9 (3.7%)	0.1 (0.1%)
	C	2.1 (3.9%)	0 (0%)
	AVG	1.9 (3.7%)	0.1 (0.1%)
MAY	W	2.6 (4.8%)	-0.3 (-0.6%)
	AN	1.5 (2.8%)	-0.2 (-0.3%)
	BN	2.4 (4.4%)	0.2 (0.4%)
	D	1.8 (3.4%)	0 (0%)
	C	1.9 (3.4%)	-0.1 (-0.1%)
	AVG	2.2 (3.9%)	-0.1 (-0.2%)
JUN	W	1.3 (2.3%)	-0.2 (-0.3%)
	AN	1.4 (2.5%)	0 (0%)
	BN	1.8 (3.2%)	0.1 (0.2%)
	D	2.1 (3.8%)	0.1 (0.2%)
	C	2 (3.6%)	0 (0%)
	AVG	1.7 (3%)	0 (0%)
JUL	W	0.9 (1.6%)	-0.1 (-0.2%)
	AN	1.6 (3%)	0.2 (0.3%)
	BN	1.8 (3.3%)	0.1 (0.2%)
	D	2.3 (4.1%)	-0.2 (-0.3%)
	C	4.3 (7.5%)	-0.7 (-1%)
	AVG	2 (3.5%)	-0.1 (-0.2%)

Alternative 6A: Sacramento River at Bend Bridge			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	2.4 (4.1%)	-0.3 (-0.4%)
	AN	2.4 (4.2%)	0.4 (0.7%)
	BN	3.1 (5.5%)	0.4 (0.7%)
	D	3.6 (6.3%)	0.5 (0.9%)
	C	6.9 (11.6%)	-0.1 (-0.2%)
	AVG	3.4 (6%)	0.1 (0.2%)
SEP	W	1.9 (3.3%)	0.6 (1.1%)
	AN	1.6 (2.9%)	0.4 (0.7%)
	BN	3.8 (6.5%)	0.8 (1.4%)
	D	4.6 (7.9%)	-0.3 (-0.5%)
	C	5 (8.1%)	-0.3 (-0.4%)
	AVG	3.2 (5.5%)	0.3 (0.5%)
OCT	W	2.5 (4.5%)	-0.4 (-0.7%)
	AN	2.5 (4.5%)	-0.1 (-0.2%)
	BN	3 (5.5%)	0.1 (0.2%)
	D	2.8 (5%)	-0.4 (-0.6%)
	C	3 (5.4%)	-0.3 (-0.6%)
	AVG	2.7 (4.9%)	-0.2 (-0.4%)
NOV	W	2.1 (4.2%)	-0.2 (-0.4%)
	AN	2.1 (4.1%)	-0.2 (-0.4%)
	BN	2.4 (4.7%)	-0.1 (-0.3%)
	D	2.3 (4.4%)	0 (-0.1%)
	C	2.3 (4.4%)	-0.1 (-0.2%)
	AVG	2.2 (4.4%)	-0.1 (-0.3%)
DEC	W	1.3 (2.9%)	0.2 (0.3%)
	AN	1.8 (4%)	0 (0%)
	BN	1.8 (3.8%)	-0.2 (-0.3%)
	D	1.8 (3.8%)	-0.2 (-0.4%)
	C	1.9 (4.1%)	-0.1 (-0.1%)
	AVG	1.7 (3.6%)	0 (-0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.6.4 Sacramento River at Red Bluff Diversion Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
3 **the Sacramento River at Red Bluff Diversion Dam, Year-Round**

Alternative 6A: Sacramento River at Red Bluff Diversion Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	45	46	47
	AN	45	47	47
	BN	44	46	46
	D	44	46	46
	C	44	47	46
	AVG	45	46	46
FEB	W	46	47	48
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	50	50
	AN	49	51	51
	BN	49	51	51
	D	50	52	52
	C	51	53	53
	AVG	49	51	51
APR	W	52	54	54
	AN	53	55	55
	BN	54	55	56
	D	54	55	56
	C	53	55	55
	AVG	53	55	55
MAY	W	55	58	58
	AN	56	58	58
	BN	56	58	59
	D	56	58	58
	C	57	59	58
	AVG	56	58	58
JUN	W	57	59	59
	AN	57	58	58
	BN	57	58	59
	D	57	59	59
	C	58	60	60
	AVG	57	59	59
JUL	W	58	59	59
	AN	57	59	59
	BN	57	59	59
	D	57	60	60
	C	60	64	64
	AVG	58	60	60

Alternative 6A: Sacramento River at Red Bluff Diversion Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
AUG	W	58	61	61
	AN	59	61	61
	BN	58	61	61
	D	59	62	62
	C	61	68	68
	AVG	59	62	62
SEP	W	58	59	60
	AN	59	60	61
	BN	59	62	63
	D	59	64	64
	C	63	68	68
	AVG	59	62	63
OCT	W	55	57	57
	AN	55	57	57
	BN	55	58	58
	D	55	59	58
	C	56	60	60
	AVG	55	58	58
NOV	W	50	53	53
	AN	50	53	53
	BN	51	53	53
	D	51	53	53
	C	52	54	54
	AVG	51	53	53
DEC	W	46	48	48
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	46	48	48
	AVG	46	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Red Bluff Diversion Dam, Year-Round**

Alternative 6A: Sacramento River at Red Bluff Diversion Dam			
Month	WYT	EXISTING CONDITIONS	
		vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	1.6 (3.5%)	0.1 (0.2%)
	AN	1.7 (3.7%)	0.1 (0.1%)
	BN	1.8 (4%)	0 (-0.1%)
	D	1.9 (4.3%)	-0.1 (-0.1%)
	C	2.1 (4.7%)	-0.2 (-0.5%)
	AVG	1.8 (4%)	0 (0%)
FEB	W	1.6 (3.6%)	0 (0.1%)
	AN	1.7 (3.7%)	0.1 (0.1%)
	BN	1.7 (3.7%)	0 (-0.1%)
	D	2 (4.2%)	0 (0%)
	C	2 (4.2%)	-0.1 (-0.3%)
	AVG	1.8 (3.9%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0.1%)
	AN	1.6 (3.3%)	0 (0.1%)
	BN	1.8 (3.7%)	0.1 (0.1%)
	D	1.7 (3.4%)	0 (-0.1%)
	C	1.9 (3.8%)	0 (0.1%)
	AVG	1.7 (3.4%)	0 (0%)
APR	W	1.9 (3.6%)	0 (0.1%)
	AN	1.9 (3.6%)	-0.1 (-0.1%)
	BN	2.1 (3.8%)	0.2 (0.3%)
	D	2 (3.7%)	0.1 (0.1%)
	C	2.1 (3.9%)	0 (0.1%)
	AVG	2 (3.7%)	0.1 (0.1%)
MAY	W	2.7 (4.9%)	-0.3 (-0.6%)
	AN	1.6 (2.8%)	-0.2 (-0.4%)
	BN	2.5 (4.5%)	0.2 (0.4%)
	D	1.9 (3.4%)	0 (0%)
	C	1.9 (3.4%)	-0.1 (-0.1%)
	AVG	2.2 (4%)	-0.1 (-0.2%)
JUN	W	1.4 (2.5%)	-0.2 (-0.3%)
	AN	1.5 (2.7%)	0 (0%)
	BN	1.9 (3.4%)	0.1 (0.2%)
	D	2.2 (3.8%)	0.1 (0.2%)
	C	2.1 (3.5%)	0 (0%)
	AVG	1.8 (3.1%)	0 (0%)
JUL	W	1 (1.6%)	-0.2 (-0.3%)
	AN	1.7 (3%)	0.2 (0.4%)
	BN	1.9 (3.4%)	0.1 (0.1%)
	D	2.3 (4%)	-0.2 (-0.3%)
	C	4.2 (7.1%)	-0.6 (-1%)
	AVG	2 (3.5%)	-0.1 (-0.2%)

Alternative 6A: Sacramento River at Red Bluff Diversion Dam			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	2.5 (4.2%)	-0.3 (-0.5%)
	AN	2.5 (4.3%)	0.5 (0.8%)
	BN	3.2 (5.6%)	0.4 (0.7%)
	D	3.7 (6.3%)	0.6 (0.9%)
	C	6.8 (11.1%)	-0.2 (-0.2%)
	AVG	3.5 (6%)	0.1 (0.2%)
SEP	W	1.9 (3.3%)	0.7 (1.2%)
	AN	1.6 (2.8%)	0.5 (0.9%)
	BN	3.9 (6.7%)	0.9 (1.5%)
	D	4.7 (8%)	-0.3 (-0.4%)
	C	5 (8%)	-0.2 (-0.3%)
	AVG	3.3 (5.5%)	0.4 (0.6%)
OCT	W	2.5 (4.5%)	-0.3 (-0.6%)
	AN	2.5 (4.6%)	-0.1 (-0.2%)
	BN	3 (5.5%)	0.1 (0.2%)
	D	2.8 (5%)	-0.3 (-0.6%)
	C	3.1 (5.4%)	-0.3 (-0.5%)
	AVG	2.7 (4.9%)	-0.2 (-0.4%)
NOV	W	2.2 (4.3%)	-0.2 (-0.4%)
	AN	2.1 (4.2%)	-0.2 (-0.3%)
	BN	2.5 (4.9%)	-0.1 (-0.2%)
	D	2.3 (4.5%)	0 (-0.1%)
	C	2.3 (4.5%)	-0.1 (-0.2%)
	AVG	2.3 (4.5%)	-0.1 (-0.3%)
DEC	W	1.4 (3%)	0.1 (0.3%)
	AN	1.9 (4.1%)	0 (0%)
	BN	1.8 (4%)	-0.2 (-0.3%)
	D	1.8 (4%)	-0.2 (-0.4%)
	C	2 (4.3%)	-0.1 (-0.1%)
	AVG	1.7 (3.7%)	0 (-0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.6.5 Sacramento River at Hamilton City**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
3 **the Sacramento River at Hamilton City, Year-Round**

Alternative 6A: Sacramento River at Hamilton City				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	44	46	46
	D	44	46	46
	C	44	47	47
	AVG	45	47	47
FEB	W	46	48	48
	AN	47	48	48
	BN	46	48	48
	D	47	49	49
	C	48	50	50
	AVG	47	49	49
MAR	W	49	51	51
	AN	51	52	52
	BN	51	53	53
	D	52	54	53
	C	52	54	54
	AVG	51	52	53
APR	W	54	55	56
	AN	55	57	57
	BN	56	58	58
	D	56	58	58
	C	56	58	58
	AVG	55	57	57
MAY	W	58	62	61
	AN	60	62	61
	BN	59	62	62
	D	59	61	61
	C	60	62	62
	AVG	59	62	61
JUN	W	61	63	62
	AN	61	62	62
	BN	60	62	62
	D	60	63	63
	C	61	63	63
	AVG	61	63	63
JUL	W	62	63	63
	AN	61	63	63
	BN	61	63	63
	D	61	64	63
	C	63	68	67
	AVG	62	64	64

Alternative 6A: Sacramento River at Hamilton City				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
AUG	W	62	65	65
	AN	62	64	65
	BN	62	65	65
	D	62	65	66
	C	65	71	71
	AVG	62	66	66
SEP	W	60	61	62
	AN	62	63	63
	BN	62	65	66
	D	62	67	67
	C	64	69	69
	AVG	62	65	65
OCT	W	55	58	58
	AN	56	58	58
	BN	56	59	59
	D	56	59	59
	C	57	60	60
	AVG	56	59	59
NOV	W	50	53	52
	AN	50	53	53
	BN	50	53	53
	D	51	53	53
	C	52	54	54
	AVG	51	53	53
DEC	W	46	47	47
	AN	46	48	48
	BN	45	48	47
	D	45	48	48
	C	45	48	47
	AVG	46	47	47

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Hamilton City, Year-Round**

Alternative 6A: Sacramento River at Hamilton City			
Month	WYT	EXISTING CONDITIONS	NAA vs. A6A_LLТ
		vs. A6A_LLТ	
JAN	W	1.7 (3.7%)	0.1 (0.1%)
	AN	1.8 (4%)	0 (0.1%)
	BN	1.9 (4.3%)	0 (0%)
	D	2.1 (4.8%)	-0.1 (-0.1%)
	C	2.3 (5.1%)	-0.2 (-0.5%)
	AVG	1.9 (4.3%)	0 (-0.1%)
FEB	W	1.7 (3.7%)	0 (0.1%)
	AN	1.8 (3.8%)	0 (0.1%)
	BN	1.8 (3.9%)	-0.1 (-0.1%)
	D	2.1 (4.5%)	0 (0%)
	C	2.1 (4.4%)	-0.2 (-0.3%)
	AVG	1.9 (4%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0.1%)
	AN	1.7 (3.3%)	0 (0%)
	BN	1.9 (3.8%)	0.1 (0.1%)
	D	1.8 (3.4%)	0 (-0.1%)
	C	2 (3.8%)	0.1 (0.1%)
	AVG	1.7 (3.4%)	0 (0%)
APR	W	1.9 (3.6%)	0 (0.1%)
	AN	2 (3.6%)	-0.1 (-0.2%)
	BN	2.2 (3.9%)	0.2 (0.3%)
	D	2.1 (3.8%)	0.1 (0.1%)
	C	2.2 (3.9%)	0.1 (0.2%)
	AVG	2.1 (3.7%)	0.1 (0.1%)
MAY	W	2.9 (5%)	-0.3 (-0.5%)
	AN	1.7 (2.9%)	-0.3 (-0.4%)
	BN	2.7 (4.5%)	0.2 (0.3%)
	D	2 (3.4%)	0 (0%)
	C	1.9 (3.3%)	-0.1 (-0.1%)
	AVG	2.4 (4%)	-0.1 (-0.2%)
JUN	W	1.7 (2.8%)	-0.2 (-0.4%)
	AN	1.7 (2.8%)	0 (0%)
	BN	2.2 (3.6%)	0.1 (0.2%)
	D	2.3 (3.8%)	0.1 (0.2%)
	C	2.1 (3.5%)	0 (0.1%)
	AVG	2 (3.3%)	0 (0%)
JUL	W	1 (1.7%)	-0.3 (-0.4%)
	AN	1.9 (3.1%)	0.3 (0.4%)
	BN	2.1 (3.4%)	0 (0%)
	D	2.3 (3.8%)	-0.2 (-0.3%)
	C	4.2 (6.6%)	-0.6 (-0.9%)
	AVG	2.1 (3.4%)	-0.2 (-0.3%)

Alternative 6A: Sacramento River at Hamilton City			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	2.7 (4.4%)	-0.5 (-0.8%)
	AN	2.8 (4.5%)	0.7 (1.1%)
	BN	3.5 (5.7%)	0.5 (0.8%)
	D	3.9 (6.3%)	0.7 (1.1%)
	C	6.5 (10.1%)	-0.1 (-0.2%)
	AVG	3.7 (5.9%)	0.2 (0.2%)
SEP	W	1.9 (3.1%)	0.8 (1.3%)
	AN	1.6 (2.6%)	0.8 (1.2%)
	BN	4.1 (6.7%)	0.9 (1.4%)
	D	4.9 (7.9%)	-0.2 (-0.3%)
	C	4.8 (7.4%)	-0.2 (-0.3%)
	AVG	3.3 (5.4%)	0.4 (0.7%)
OCT	W	2.5 (4.5%)	-0.2 (-0.4%)
	AN	2.6 (4.7%)	0 (-0.1%)
	BN	3 (5.3%)	0.1 (0.2%)
	D	2.7 (4.7%)	-0.3 (-0.5%)
	C	3.1 (5.4%)	-0.2 (-0.3%)
	AVG	2.7 (4.9%)	-0.2 (-0.3%)
NOV	W	2.3 (4.5%)	-0.2 (-0.3%)
	AN	2.3 (4.6%)	-0.1 (-0.2%)
	BN	2.5 (5%)	-0.1 (-0.2%)
	D	2.4 (4.7%)	0 (-0.1%)
	C	2.5 (4.8%)	-0.1 (-0.2%)
	AVG	2.4 (4.7%)	-0.1 (-0.2%)
DEC	W	1.6 (3.4%)	0.1 (0.3%)
	AN	2.1 (4.5%)	0 (0%)
	BN	2 (4.4%)	-0.1 (-0.3%)
	D	2 (4.4%)	-0.1 (-0.3%)
	C	2.2 (4.8%)	0 (-0.1%)
	AVG	1.9 (4.2%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.6.6 Trinity River below Lewiston Reservoir**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
3 **the Trinity River below Lewiston Reservoir, Year-Round**

Alternative 6A: Trinity River below Lewiston Reservoir				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	41	43	43
	AN	38	41	41
	BN	39	41	41
	D	39	41	41
	C	39	42	42
	AVG	39	42	42
FEB	W	43	45	45
	AN	43	45	45
	BN	42	44	44
	D	42	45	45
	C	43	45	45
	AVG	43	45	45
MAR	W	46	48	47
	AN	47	49	49
	BN	47	48	49
	D	48	50	50
	C	48	50	50
	AVG	47	49	49
APR	W	49	51	50
	AN	50	52	52
	BN	51	53	53
	D	51	53	53
	C	50	52	53
	AVG	50	52	52
MAY	W	46	48	48
	AN	46	48	48
	BN	46	49	49
	D	47	49	49
	C	49	52	53
	AVG	47	49	49
JUN	W	48	51	51
	AN	51	52	52
	BN	52	53	53
	D	52	54	54
	C	56	59	60
	AVG	51	53	53
JUL	W	51	55	54
	AN	52	54	53
	BN	52	55	55
	D	51	54	54
	C	53	60	60
	AVG	51	55	55

Alternative 6A: Trinity River below Lewiston Reservoir				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL
AUG	W	52	54	54
	AN	51	53	53
	BN	52	55	55
	D	50	54	54
	C	54	63	63
	AVG	52	56	55
SEP	W	49	51	51
	AN	50	51	52
	BN	51	55	55
	D	50	56	56
	C	57	62	62
	AVG	51	54	54
OCT	W	48	51	51
	AN	49	52	52
	BN	50	53	53
	D	50	52	52
	C	51	56	55
	AVG	49	52	52
NOV	W	44	47	47
	AN	45	47	47
	BN	45	47	47
	D	44	47	47
	C	46	48	48
	AVG	45	47	47
DEC	W	41	43	43
	AN	39	43	42
	BN	40	42	42
	D	40	42	42
	C	39	41	41
	AVG	40	42	42

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River below Lewiston Reservoir, Year-Round**

Alternative 6A: Trinity River below Lewiston Reservoir			
Month	WYT	EXISTING CONDITIONS	NAA vs. A6A_LLТ
		vs. A6A_LLТ	
JAN	W	2.3 (5.8%)	0.3 (0.7%)
	AN	2.4 (6.3%)	0 (0%)
	BN	2.1 (5.5%)	0 (0.1%)
	D	2.4 (6.3%)	-0.3 (-0.6%)
	C	2.2 (5.7%)	-0.1 (-0.2%)
	AVG	2.3 (5.9%)	0 (0.1%)
FEB	W	2.4 (5.5%)	0 (0%)
	AN	2.2 (5.2%)	0 (-0.1%)
	BN	2.1 (5.1%)	0 (0%)
	D	2.3 (5.4%)	0 (0.1%)
	C	2.1 (5%)	0 (-0.1%)
	AVG	2.3 (5.3%)	0 (0%)
MAR	W	1.7 (3.7%)	-0.3 (-0.6%)
	AN	1.4 (3%)	-0.3 (-0.5%)
	BN	2.3 (4.9%)	0.4 (0.9%)
	D	1.4 (3%)	0 (-0.1%)
	C	2.1 (4.4%)	0 (0%)
	AVG	1.8 (3.8%)	-0.1 (-0.1%)
APR	W	1.2 (2.4%)	-0.3 (-0.6%)
	AN	2 (3.9%)	0 (0%)
	BN	2.6 (5.2%)	0.1 (0.3%)
	D	2.3 (4.4%)	0 (0%)
	C	2.4 (4.7%)	0.2 (0.5%)
	AVG	2 (3.9%)	0 (-0.1%)
MAY	W	2.5 (5.4%)	0.1 (0.1%)
	AN	2.3 (5%)	0 (0%)
	BN	2.2 (4.8%)	0 (0.1%)
	D	2.6 (5.7%)	0.1 (0.2%)
	C	3.4 (6.9%)	0.3 (0.5%)
	AVG	2.6 (5.5%)	0.1 (0.2%)
JUN	W	2.2 (4.6%)	0 (-0.1%)
	AN	1.1 (2.2%)	0 (0%)
	BN	1.8 (3.4%)	-0.1 (-0.1%)
	D	2.3 (4.4%)	0 (0%)
	C	3.8 (6.9%)	0.1 (0.2%)
	AVG	2.2 (4.4%)	0 (0%)
JUL	W	3.1 (6.1%)	-0.7 (-1.3%)
	AN	1.7 (3.3%)	-0.3 (-0.6%)
	BN	2.7 (5.3%)	-0.5 (-0.9%)
	D	2.9 (5.8%)	0.3 (0.5%)
	C	7.1 (13.5%)	0.2 (0.4%)
	AVG	3.4 (6.6%)	-0.3 (-0.5%)

Alternative 6A: Trinity River below Lewiston Reservoir			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL	NAA vs. A6A_LL
AUG	W	1.5 (2.9%)	-0.6 (-1.1%)
	AN	2.3 (4.5%)	0.1 (0.2%)
	BN	3 (5.9%)	0.1 (0.1%)
	D	3.9 (7.8%)	-0.1 (-0.2%)
	C	9.1 (16.9%)	-0.3 (-0.5%)
	AVG	3.5 (6.9%)	-0.2 (-0.4%)
SEP	W	1.9 (3.9%)	0 (0%)
	AN	2.3 (4.6%)	0.5 (1%)
	BN	3.5 (6.8%)	0 (-0.1%)
	D	5.5 (11%)	-0.3 (-0.6%)
	C	5.9 (10.3%)	0.2 (0.3%)
	AVG	3.6 (7.1%)	0 (0%)
OCT	W	3 (6.3%)	-0.2 (-0.5%)
	AN	2.4 (4.8%)	0 (0.1%)
	BN	2.8 (5.7%)	0 (-0.1%)
	D	2.3 (4.6%)	0.1 (0.1%)
	C	3.6 (6.9%)	-0.9 (-1.6%)
	AVG	2.8 (5.7%)	-0.2 (-0.4%)
NOV	W	2.3 (5.3%)	-0.3 (-0.6%)
	AN	2.2 (4.8%)	-0.1 (-0.2%)
	BN	2.6 (5.9%)	0.1 (0.1%)
	D	2.4 (5.4%)	-0.4 (-0.7%)
	C	2.1 (4.5%)	0 (0.1%)
	AVG	2.3 (5.2%)	-0.2 (-0.3%)
DEC	W	1.8 (4.3%)	-0.3 (-0.7%)
	AN	2.9 (7.3%)	-0.7 (-1.7%)
	BN	2.8 (7.1%)	0.3 (0.8%)
	D	1.8 (4.5%)	0 (-0.1%)
	C	1.9 (4.7%)	0.1 (0.3%)
	AVG	2.1 (5.3%)	-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.

1 **11D.6.7 Trinity River at Douglas City**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
3 **the Trinity River at Douglas City, Year-Round**

Alternative 6A: Trinity River at Douglas City				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	40	42	42
	AN	39	40	40
	BN	38	40	40
	D	38	40	40
	C	39	41	41
	AVG	39	41	41
FEB	W	43	45	45
	AN	43	45	45
	BN	42	44	44
	D	43	44	44
	C	43	45	45
	AVG	43	45	45
MAR	W	46	47	47
	AN	47	48	48
	BN	47	48	48
	D	48	49	49
	C	48	49	49
	AVG	47	48	48
APR	W	51	52	52
	AN	52	53	53
	BN	52	54	54
	D	53	54	54
	C	52	54	54
	AVG	52	53	53
MAY	W	48	50	50
	AN	48	50	50
	BN	49	51	51
	D	49	51	52
	C	52	55	55
	AVG	49	51	51
JUN	W	51	54	53
	AN	54	55	55
	BN	55	57	57
	D	57	59	59
	C	60	63	63
	AVG	55	57	57
JUL	W	57	61	60
	AN	58	60	60
	BN	59	62	62
	D	59	62	62
	C	62	67	67
	AVG	59	62	62

Alternative 6A: Trinity River at Douglas City				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LLТ
AUG	W	60	62	62
	AN	59	61	61
	BN	60	63	63
	D	58	62	62
	C	61	67	68
	AVG	60	63	63
SEP	W	55	57	57
	AN	55	57	57
	BN	56	59	59
	D	55	60	59
	C	59	64	63
	AVG	56	59	59
OCT	W	50	53	53
	AN	51	53	53
	BN	52	54	54
	D	51	53	53
	C	53	56	55
	AVG	51	54	53
NOV	W	44	46	46
	AN	45	47	47
	BN	45	47	47
	D	44	46	46
	C	46	47	48
	AVG	44	47	47
DEC	W	41	43	43
	AN	40	42	42
	BN	39	42	42
	D	40	42	42
	C	39	41	41
	AVG	40	42	42

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River at Douglas City, Year-Round**

Alternative 6A: Trinity River at Douglas City			
Month	WYT	EXISTING CONDITIONS	NAA vs. A6A_LL
		vs. A6A_LL	T
JAN	W	1.8 (4.4%)	0.2 (0.4%)
	AN	1.6 (4.1%)	0 (0%)
	BN	1.5 (3.9%)	0 (0%)
	D	2 (5.3%)	-0.1 (-0.4%)
	C	2 (5.2%)	0 (-0.1%)
	AVG	1.8 (4.6%)	0 (0%)
FEB	W	1.6 (3.7%)	0 (0%)
	AN	1.5 (3.5%)	0 (0%)
	BN	1.6 (3.8%)	0 (0%)
	D	1.6 (3.7%)	0 (0%)
	C	1.8 (4.2%)	0 (-0.1%)
	AVG	1.6 (3.8%)	0 (0%)
MAR	W	1.1 (2.5%)	0 (-0.1%)
	AN	0.9 (1.9%)	-0.1 (-0.2%)
	BN	1.3 (2.7%)	0.1 (0.2%)
	D	1 (2.1%)	0 (0%)
	C	1.5 (3.2%)	0 (0%)
	AVG	1.2 (2.5%)	0 (0%)
APR	W	1.1 (2.1%)	-0.1 (-0.3%)
	AN	1.4 (2.6%)	0 (0%)
	BN	1.8 (3.4%)	0.1 (0.1%)
	D	1.7 (3.2%)	0 (0%)
	C	1.9 (3.7%)	0.1 (0.2%)
	AVG	1.5 (2.9%)	0 (0%)
MAY	W	2.4 (5%)	0 (0.1%)
	AN	2.2 (4.7%)	0 (0%)
	BN	2.1 (4.4%)	0 (0.1%)
	D	2.5 (5.2%)	0.1 (0.1%)
	C	3.2 (6.2%)	0.2 (0.4%)
	AVG	2.5 (5.1%)	0.1 (0.1%)
JUN	W	2.1 (4.1%)	0 (-0.1%)
	AN	1 (1.8%)	0 (0%)
	BN	1.8 (3.2%)	0 (0%)
	D	2.4 (4.2%)	0 (0%)
	C	3.2 (5.4%)	0.1 (0.1%)
	AVG	2.1 (3.9%)	0 (0%)
JUL	W	3.3 (5.8%)	-0.5 (-0.7%)
	AN	2 (3.5%)	-0.2 (-0.3%)
	BN	2.4 (4.1%)	-0.3 (-0.4%)
	D	2.9 (4.8%)	0.2 (0.3%)
	C	5 (8.1%)	0.4 (0.6%)
	AVG	3.1 (5.3%)	-0.1 (-0.2%)

Alternative 6A: Trinity River at Douglas City			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	2.2 (3.7%)	-0.3 (-0.5%)
	AN	2.7 (4.6%)	0.1 (0.1%)
	BN	3.1 (5.2%)	0.1 (0.1%)
	D	3.7 (6.3%)	0 (-0.1%)
	C	6.9 (11.3%)	0.6 (0.9%)
	AVG	3.4 (5.8%)	0 (0%)
SEP	W	2.4 (4.5%)	0 (0%)
	AN	2.6 (4.8%)	0.3 (0.6%)
	BN	3.3 (5.9%)	0 (0%)
	D	4.5 (8.2%)	-0.2 (-0.3%)
	C	4.2 (7.1%)	-1.1 (-1.7%)
	AVG	3.3 (6%)	-0.2 (-0.3%)
OCT	W	2.4 (4.8%)	-0.1 (-0.3%)
	AN	2 (3.9%)	0.1 (0.2%)
	BN	2.4 (4.5%)	0 (0%)
	D	2 (3.9%)	0 (0%)
	C	2.5 (4.8%)	-0.6 (-1%)
	AVG	2.3 (4.4%)	-0.1 (-0.2%)
NOV	W	1.9 (4.4%)	-0.2 (-0.3%)
	AN	2 (4.4%)	0 (-0.1%)
	BN	2.3 (5%)	0 (0.1%)
	D	2 (4.6%)	-0.2 (-0.4%)
	C	1.9 (4.1%)	0 (0%)
	AVG	2 (4.5%)	-0.1 (-0.2%)
DEC	W	1.4 (3.4%)	0 (-0.1%)
	AN	2.1 (5.2%)	-0.3 (-0.8%)
	BN	2.3 (5.8%)	0.2 (0.4%)
	D	1.7 (4.3%)	0 (0%)
	C	2.2 (5.8%)	0 (0.1%)
	AVG	1.8 (4.6%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.6.8 Trinity River below North Fork**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
3 **the Trinity River below North Fork, Year-Round**

Alternative 6A: Trinity River below North Fork				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	40	41	41
	AN	38	39	39
	BN	38	39	39
	D	38	39	39
	C	38	40	40
	AVG	39	40	40
FEB	W	43	44	44
	AN	43	44	44
	BN	43	44	44
	D	43	44	44
	C	43	45	45
	AVG	43	44	44
MAR	W	46	47	47
	AN	46	47	47
	BN	46	47	47
	D	47	48	48
	C	48	49	49
	AVG	47	47	47
APR	W	53	53	53
	AN	54	54	54
	BN	54	55	55
	D	54	55	55
	C	54	55	55
	AVG	53	54	54
MAY	W	50	52	52
	AN	50	52	52
	BN	51	53	53
	D	51	54	54
	C	54	57	57
	AVG	51	53	53
JUN	W	55	57	57
	AN	58	58	58
	BN	60	61	61
	D	62	64	64
	C	63	66	66
	AVG	59	61	61
JUL	W	63	66	66
	AN	63	66	65
	BN	65	67	67
	D	65	68	68
	C	68	71	71
	AVG	65	67	67

Alternative 6A: Trinity River below North Fork				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LLТ
AUG	W	65	68	67
	AN	64	67	67
	BN	65	68	68
	D	64	67	67
	C	65	69	70
	AVG	65	68	68
SEP	W	59	62	62
	AN	59	61	61
	BN	59	62	63
	D	58	62	62
	C	61	64	63
	AVG	59	62	62
OCT	W	53	55	55
	AN	53	55	55
	BN	54	56	56
	D	53	54	54
	C	54	56	56
	AVG	53	55	55
NOV	W	44	45	45
	AN	44	46	46
	BN	44	46	46
	D	44	45	45
	C	45	47	47
	AVG	44	46	46
DEC	W	41	42	42
	AN	40	42	41
	BN	39	41	41
	D	40	41	41
	C	38	40	40
	AVG	40	41	41

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River below North Fork, Year-Round**

Alternative 6A: Trinity River below North Fork			
Month	WYT	EXISTING CONDITIONS	
		vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	1.3 (3.2%)	0.1 (0.3%)
	AN	1 (2.7%)	0 (0%)
	BN	1 (2.7%)	0 (0%)
	D	1.5 (4.1%)	-0.1 (-0.2%)
	C	1.7 (4.4%)	0 (0%)
	AVG	1.3 (3.4%)	0 (0.1%)
FEB	W	1.1 (2.5%)	0 (0%)
	AN	1 (2.4%)	0 (0.1%)
	BN	1.1 (2.7%)	0 (0%)
	D	1.1 (2.5%)	0 (0%)
	C	1.4 (3.3%)	0 (0%)
	AVG	1.1 (2.6%)	0 (0%)
MAR	W	0.7 (1.6%)	0 (0%)
	AN	0.6 (1.3%)	0 (0%)
	BN	0.8 (1.6%)	0 (0.1%)
	D	0.7 (1.5%)	0 (0%)
	C	1.1 (2.2%)	0 (0%)
	AVG	0.8 (1.7%)	0 (0%)
APR	W	0.7 (1.4%)	-0.1 (-0.1%)
	AN	0.9 (1.7%)	0 (0%)
	BN	1.1 (2%)	0 (0%)
	D	1.2 (2.2%)	0 (0%)
	C	1.5 (2.7%)	0 (0.1%)
	AVG	1 (1.9%)	0 (0%)
MAY	W	2.1 (4.2%)	0 (0.1%)
	AN	2.1 (4.1%)	0 (0%)
	BN	1.9 (3.8%)	0 (0%)
	D	2.3 (4.5%)	0.1 (0.1%)
	C	2.8 (5.2%)	0.1 (0.2%)
	AVG	2.2 (4.3%)	0 (0.1%)
JUN	W	1.8 (3.3%)	0 (0%)
	AN	0.7 (1.3%)	0 (0%)
	BN	1.7 (2.9%)	0 (0%)
	D	2.2 (3.6%)	0 (0%)
	C	2.5 (4%)	0 (0%)
	AVG	1.9 (3.2%)	0 (0%)
JUL	W	3.1 (5%)	-0.3 (-0.4%)
	AN	2.1 (3.2%)	-0.1 (-0.2%)
	BN	2.2 (3.3%)	-0.1 (-0.1%)
	D	2.6 (4%)	0.1 (0.1%)
	C	3.5 (5.1%)	0.2 (0.2%)
	AVG	2.8 (4.3%)	-0.1 (-0.1%)

Alternative 6A: Trinity River below North Fork			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	2.4 (3.7%)	-0.1 (-0.2%)
	AN	2.7 (4.1%)	0 (0%)
	BN	2.8 (4.4%)	0 (0%)
	D	3.2 (5.1%)	0 (0%)
	C	4.7 (7.1%)	0.8 (1.1%)
	AVG	3 (4.7%)	0.1 (0.1%)
SEP	W	2.6 (4.4%)	0 (0%)
	AN	2.6 (4.5%)	0.1 (0.2%)
	BN	3 (5.1%)	0 (0%)
	D	3.6 (6.2%)	-0.1 (-0.1%)
	C	2.5 (4.2%)	-0.4 (-0.7%)
	AVG	2.9 (4.9%)	-0.1 (-0.1%)
OCT	W	1.9 (3.6%)	-0.1 (-0.1%)
	AN	1.8 (3.3%)	-0.1 (-0.2%)
	BN	2 (3.7%)	0 (0%)
	D	1.8 (3.4%)	0 (0%)
	C	2.4 (4.6%)	-0.1 (-0.3%)
	AVG	2 (3.7%)	-0.1 (-0.1%)
NOV	W	1.6 (3.6%)	-0.1 (-0.1%)
	AN	1.5 (3.4%)	0 (0%)
	BN	1.9 (4.2%)	0 (0%)
	D	1.6 (3.7%)	-0.1 (-0.2%)
	C	1.7 (3.7%)	0 (0%)
	AVG	1.6 (3.7%)	0 (-0.1%)
DEC	W	1 (2.5%)	0.1 (0.2%)
	AN	1.4 (3.5%)	-0.1 (-0.4%)
	BN	1.7 (4.5%)	0.1 (0.2%)
	D	1.4 (3.7%)	0 (0%)
	C	1.9 (5%)	0 (0.1%)
	AVG	1.4 (3.6%)	0 (0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.6.9 Feather River at Fish Barrier Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
3 **the Feather River at Fish Barrier Dam, Year-Round**

Alternative 6A: Feather River at Fish Barrier Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	48	51	51
	AN	47	50	51
	BN	48	51	51
	D	47	51	51
	C	48	51	51
	AVG	48	51	51
FEB	W	48	51	51
	AN	48	51	51
	BN	48	51	52
	D	49	52	52
	C	49	53	53
	AVG	48	51	52
MAR	W	49	51	51
	AN	49	51	51
	BN	50	53	53
	D	51	53	54
	C	51	54	54
	AVG	50	52	53
APR	W	51	52	53
	AN	51	53	53
	BN	52	54	54
	D	52	54	54
	C	52	54	54
	AVG	51	53	54
MAY	W	55	56	55
	AN	56	56	56
	BN	56	56	56
	D	56	56	56
	C	56	57	57
	AVG	55	56	56
JUN	W	57	58	58
	AN	58	58	58
	BN	58	58	58
	D	58	58	59
	C	58	59	59
	AVG	58	58	58
JUL	W	61	61	62
	AN	61	61	61
	BN	61	61	61
	D	61	61	62
	C	61	62	63
	AVG	61	61	62

Alternative 6A: Feather River at Fish Barrier Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL
AUG	W	61	61	61
	AN	60	60	60
	BN	60	60	60
	D	60	62	61
	C	62	64	62
	AVG	61	61	61
SEP	W	56	55	56
	AN	56	55	56
	BN	56	57	56
	D	56	61	56
	C	58	63	61
	AVG	56	58	57
OCT	W	54	58	56
	AN	55	58	57
	BN	54	58	58
	D	54	59	58
	C	54	58	57
	AVG	54	58	57
NOV	W	52	58	56
	AN	53	58	56
	BN	53	58	57
	D	52	59	57
	C	53	58	57
	AVG	53	58	57
DEC	W	49	53	53
	AN	49	55	54
	BN	49	54	54
	D	49	54	54
	C	49	54	54
	AVG	49	54	54

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Fish Barrier Dam, Year-Round**

Alternative 6A: Feather River at Fish Barrier Dam			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
JAN	W	3.2 (6.7%)	0.4 (0.8%)
	AN	3.3 (6.9%)	0.2 (0.4%)
	BN	3.2 (6.7%)	0.2 (0.3%)
	D	3.6 (7.6%)	0.2 (0.4%)
	C	3.9 (8.1%)	0 (0.1%)
	AVG	3.4 (7.1%)	0.2 (0.5%)
FEB	W	2.9 (6.1%)	0.3 (0.6%)
	AN	2.7 (5.6%)	0.2 (0.3%)
	BN	3.3 (6.7%)	0.3 (0.5%)
	D	3.2 (6.6%)	0.3 (0.6%)
	C	3.5 (7.2%)	0.1 (0.1%)
	AVG	3.1 (6.4%)	0.3 (0.5%)
MAR	W	2.8 (5.8%)	0.3 (0.6%)
	AN	2.4 (4.9%)	0.1 (0.3%)
	BN	3.4 (6.9%)	0.2 (0.3%)
	D	2.7 (5.3%)	0.4 (0.7%)
	C	3.3 (6.4%)	0.2 (0.3%)
	AVG	2.9 (5.8%)	0.3 (0.5%)
APR	W	2 (4%)	0.2 (0.4%)
	AN	2 (3.8%)	0.3 (0.5%)
	BN	1.9 (3.7%)	0.3 (0.5%)
	D	2.1 (4%)	0.2 (0.3%)
	C	2.8 (5.5%)	0.3 (0.6%)
	AVG	2.1 (4.2%)	0.2 (0.4%)
MAY	W	0.6 (1.1%)	-0.1 (-0.2%)
	AN	0.5 (1%)	0 (0%)
	BN	0.5 (0.8%)	0.1 (0.3%)
	D	0.6 (1.1%)	0.3 (0.6%)
	C	0.9 (1.7%)	0.1 (0.2%)
	AVG	0.6 (1.1%)	0.1 (0.1%)
JUN	W	0.6 (1%)	0.1 (0.2%)
	AN	0.3 (0.5%)	-0.1 (-0.1%)
	BN	0.3 (0.6%)	0.1 (0.2%)
	D	1 (1.7%)	0.4 (0.8%)
	C	0.8 (1.4%)	-0.4 (-0.6%)
	AVG	0.6 (1.1%)	0.1 (0.2%)
JUL	W	0.3 (0.5%)	0.2 (0.3%)
	AN	0.5 (0.8%)	0.2 (0.3%)
	BN	0.6 (0.9%)	0.1 (0.2%)
	D	1.1 (1.9%)	0.6 (0.9%)
	C	1.7 (2.8%)	0.3 (0.5%)
	AVG	0.8 (1.3%)	0.3 (0.5%)

Alternative 6A: Feather River at Fish Barrier Dam			
Month	WYT	EXISTING CONDITIONS	
		vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	-0.1 (-0.1%)	0.2 (0.3%)
	AN	0.4 (0.7%)	0.2 (0.3%)
	BN	0.4 (0.7%)	-0.1 (-0.2%)
	D	1 (1.6%)	-0.9 (-1.5%)
	C	0.3 (0.4%)	-2.1 (-3.3%)
	AVG	0.4 (0.6%)	-0.5 (-0.7%)
SEP	W	-0.4 (-0.7%)	0.2 (0.4%)
	AN	-0.2 (-0.3%)	0.3 (0.5%)
	BN	0.1 (0.1%)	-1.5 (-2.6%)
	D	0.5 (1%)	-4.4 (-7.2%)
	C	3.3 (5.6%)	-2.2 (-3.4%)
	AVG	0.5 (0.8%)	-1.4 (-2.5%)
OCT	W	2.6 (4.8%)	-2 (-3.4%)
	AN	2.2 (4%)	-1.2 (-2%)
	BN	3.7 (6.9%)	-0.6 (-1%)
	D	3.8 (7%)	-1.9 (-3.2%)
	C	3.1 (5.8%)	-0.7 (-1.1%)
	AVG	3.1 (5.7%)	-1.4 (-2.4%)
NOV	W	3.4 (6.5%)	-2.5 (-4.2%)
	AN	3.2 (6%)	-1.8 (-3%)
	BN	4.3 (8.1%)	-1.2 (-2%)
	D	4.8 (9.1%)	-1.5 (-2.6%)
	C	4 (7.7%)	-1.2 (-2%)
	AVG	3.9 (7.5%)	-1.7 (-3%)
DEC	W	4.3 (8.7%)	-0.2 (-0.4%)
	AN	4.7 (9.6%)	-0.9 (-1.6%)
	BN	4.9 (10.1%)	-0.6 (-1.1%)
	D	4.8 (9.9%)	-0.2 (-0.4%)
	C	4.8 (9.9%)	0.1 (0.2%)
	AVG	4.7 (9.5%)	-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.

1 **11D.6.10 Feather River Low-Flow Channel (above Thermalito**
2 **Afterbay)**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
4 **the Feather River at Low-Flow Channel (above Thermalito Afterbay), Year-Round**

Alternative 6A: Feather River Low-Flow Channel (above Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL
JAN	W	47	50	51
	AN	47	50	50
	BN	47	50	50
	D	47	50	50
	C	47	51	51
	AVG	47	50	50
FEB	W	49	51	52
	AN	49	51	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	50	53	53
	AN	51	53	53
	BN	51	54	55
	D	52	55	55
	C	53	56	56
	AVG	51	54	54
APR	W	53	55	56
	AN	55	57	57
	BN	55	57	57
	D	55	57	58
	C	55	57	58
	AVG	55	57	57
MAY	W	59	61	61
	AN	60	62	62
	BN	60	61	61
	D	60	61	61
	C	60	62	62
	AVG	60	61	61
JUN	W	63	65	65
	AN	64	66	66
	BN	64	65	66
	D	64	66	66
	C	63	65	65
	AVG	64	65	65

Alternative 6A: Feather River Low-Flow Channel (above Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LLT
JUL	W	68	69	69
	AN	67	69	69
	BN	67	69	69
	D	67	69	69
	C	67	70	70
	AVG	67	69	69
AUG	W	66	68	68
	AN	65	67	67
	BN	66	68	68
	D	65	68	67
	C	67	70	68
	AVG	66	68	68
SEP	W	60	61	61
	AN	60	61	61
	BN	60	62	61
	D	60	65	62
	C	61	66	65
	AVG	60	63	62
OCT	W	55	60	58
	AN	57	60	59
	BN	56	60	60
	D	56	61	59
	C	56	60	59
	AVG	56	60	59
NOV	W	52	58	56
	AN	53	58	57
	BN	53	58	57
	D	53	58	57
	C	53	58	57
	AVG	53	58	56
DEC	W	48	53	52
	AN	49	54	53
	BN	48	53	53
	D	48	53	53
	C	48	53	53
	AVG	48	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
 2 **Water Temperatures in the Feather River at Low-Flow Channel (above Thermalito Afterbay), Year-**
 3 **Round**

Alternative 6A: Feather River Low-Flow Channel (above Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
JAN	W	3.2 (6.7%)	0.4 (0.7%)
	AN	3.3 (7%)	0.2 (0.4%)
	BN	3.1 (6.6%)	0.1 (0.3%)
	D	3.4 (7.3%)	0.2 (0.4%)
	C	3.7 (7.8%)	0 (0.1%)
	AVG	3.3 (7%)	0.2 (0.4%)
FEB	W	2.9 (6%)	0.2 (0.5%)
	AN	2.7 (5.6%)	0.1 (0.2%)
	BN	3.1 (6.4%)	0.2 (0.4%)
	D	3.1 (6.3%)	0.2 (0.5%)
	C	3.4 (6.9%)	0.1 (0.2%)
	AVG	3.1 (6.2%)	0.2 (0.4%)
MAR	W	2.7 (5.4%)	0.2 (0.4%)
	AN	2.4 (4.7%)	0.1 (0.2%)
	BN	3.2 (6.1%)	0.1 (0.2%)
	D	2.7 (5.1%)	0.3 (0.5%)
	C	3.1 (5.9%)	0.1 (0.2%)
	AVG	2.8 (5.4%)	0.2 (0.4%)
APR	W	2 (3.8%)	0.2 (0.3%)
	AN	2.1 (3.9%)	0.2 (0.3%)
	BN	2 (3.7%)	0.2 (0.3%)
	D	2.3 (4.1%)	0.1 (0.2%)
	C	2.8 (5.1%)	0.2 (0.4%)
	AVG	2.2 (4%)	0.2 (0.3%)
MAY	W	1.4 (2.3%)	-0.1 (-0.1%)
	AN	1.4 (2.3%)	0 (0%)
	BN	1.3 (2.1%)	0.1 (0.2%)
	D	1.4 (2.3%)	0.2 (0.4%)
	C	1.6 (2.7%)	0 (0.1%)
	AVG	1.4 (2.3%)	0.1 (0.1%)
JUN	W	1.7 (2.7%)	0.1 (0.1%)
	AN	1.7 (2.6%)	-0.1 (-0.1%)
	BN	1.7 (2.6%)	0.1 (0.1%)
	D	2.1 (3.3%)	0.3 (0.4%)
	C	1.9 (3%)	-0.2 (-0.3%)
	AVG	1.8 (2.9%)	0.1 (0.1%)
JUL	W	1.7 (2.6%)	0.1 (0.2%)
	AN	1.9 (2.8%)	0.2 (0.2%)
	BN	1.9 (2.8%)	0.1 (0.1%)
	D	2.3 (3.4%)	0.3 (0.5%)
	C	2.8 (4.2%)	0.2 (0.2%)
	AVG	2.1 (3.1%)	0.2 (0.2%)

Alternative 6A: Feather River Low-Flow Channel (above Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	1.6 (2.4%)	0.1 (0.1%)
	AN	1.8 (2.8%)	0.1 (0.2%)
	BN	1.9 (2.9%)	-0.1 (-0.1%)
	D	2.2 (3.4%)	-0.6 (-0.9%)
	C	1.8 (2.7%)	-1.4 (-2%)
	AVG	1.9 (2.8%)	-0.3 (-0.5%)
SEP	W	1 (1.6%)	0.2 (0.3%)
	AN	1 (1.7%)	0.2 (0.3%)
	BN	1.2 (2%)	-1.1 (-1.7%)
	D	1.7 (2.8%)	-3.2 (-4.9%)
	C	3.5 (5.7%)	-1.6 (-2.4%)
	AVG	1.6 (2.6%)	-1 (-1.7%)
OCT	W	2.8 (5%)	-1.6 (-2.6%)
	AN	2.5 (4.3%)	-0.9 (-1.5%)
	BN	3.8 (6.7%)	-0.4 (-0.7%)
	D	3.7 (6.7%)	-1.5 (-2.5%)
	C	3.2 (5.8%)	-0.5 (-0.8%)
	AVG	3.2 (5.7%)	-1.1 (-1.8%)
NOV	W	3.4 (6.4%)	-2 (-3.5%)
	AN	3.2 (6%)	-1.5 (-2.5%)
	BN	4.1 (7.7%)	-1 (-1.7%)
	D	4.5 (8.5%)	-1.3 (-2.2%)
	C	3.9 (7.3%)	-1 (-1.7%)
	AVG	3.8 (7.2%)	-1.4 (-2.5%)
DEC	W	4.1 (8.5%)	-0.2 (-0.3%)
	AN	4.4 (9.1%)	-0.8 (-1.4%)
	BN	4.6 (9.5%)	-0.5 (-1%)
	D	4.5 (9.4%)	-0.2 (-0.4%)
	C	4.5 (9.3%)	0.1 (0.1%)
	AVG	4.4 (9.1%)	-0.3 (-0.5%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.6.11 Feather River High-Flow Channel (below Thermalito**
2 **Afterbay)**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
4 **the Feather River at High-Flow Channel (below Thermalito Afterbay), Year-Round**

Alternative 6A: Feather River High-Flow Channel (below Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	47	50	50
	AN	47	50	50
	BN	46	49	49
	D	46	49	49
	C	46	50	50
	AVG	47	49	50
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	53
	D	50	53	53
	C	51	54	54
	AVG	50	52	53
MAR	W	51	54	54
	AN	52	54	54
	BN	53	56	56
	D	54	57	57
	C	54	57	57
	AVG	53	55	55
APR	W	55	57	57
	AN	57	59	59
	BN	58	59	59
	D	57	60	60
	C	57	60	60
	AVG	57	59	59
MAY	W	61	63	63
	AN	63	64	64
	BN	63	65	64
	D	63	65	65
	C	63	66	66
	AVG	62	64	64
JUN	W	66	68	68
	AN	67	70	69
	BN	67	70	69
	D	68	71	72
	C	68	71	71
	AVG	67	70	70

Alternative 6A: Feather River High-Flow Channel (below Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JUL	W	70	70	72
	AN	68	69	70
	BN	68	70	71
	D	68	70	73
	C	70	74	75
	AVG	69	71	72
AUG	W	70	70	71
	AN	67	69	70
	BN	68	70	70
	D	67	71	71
	C	70	74	74
	AVG	69	71	71
SEP	W	64	63	65
	AN	64	64	66
	BN	65	68	65
	D	64	67	66
	C	64	69	68
	AVG	64	66	66
OCT	W	58	62	62
	AN	60	63	62
	BN	59	63	63
	D	58	63	62
	C	59	63	62
	AVG	59	63	62
NOV	W	53	57	56
	AN	54	58	57
	BN	53	57	57
	D	53	57	57
	C	53	57	57
	AVG	53	57	57
DEC	W	48	51	51
	AN	48	52	51
	BN	47	51	51
	D	47	51	51
	C	47	50	50
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
 2 **Water Temperatures in the Feather River at High-Flow Channel (below Thermalito Afterbay), Year-**
 3 **Round**

Alternative 6A: Feather River High-Flow Channel (below Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
JAN	W	3 (6.4%)	0.4 (0.7%)
	AN	3 (6.4%)	0.1 (0.2%)
	BN	2.9 (6.2%)	0.2 (0.3%)
	D	3 (6.6%)	0.1 (0.3%)
	C	3.3 (7.2%)	0.1 (0.1%)
	AVG	3 (6.6%)	0.2 (0.4%)
FEB	W	2.8 (5.7%)	0.1 (0.3%)
	AN	2.9 (5.9%)	-0.2 (-0.4%)
	BN	3.1 (6.3%)	0.2 (0.3%)
	D	2.9 (5.8%)	0.1 (0.3%)
	C	3.3 (6.4%)	0.1 (0.3%)
	AVG	3 (6%)	0.1 (0.2%)
MAR	W	2.5 (4.9%)	0.2 (0.4%)
	AN	1.4 (2.6%)	-0.3 (-0.6%)
	BN	3.1 (5.7%)	0 (0.1%)
	D	2.8 (5.1%)	0.3 (0.5%)
	C	3 (5.6%)	0 (0%)
	AVG	2.6 (4.9%)	0.1 (0.2%)
APR	W	2.1 (3.9%)	0.1 (0.2%)
	AN	2.4 (4.2%)	0.1 (0.2%)
	BN	1.9 (3.3%)	0.1 (0.2%)
	D	2.7 (4.7%)	0.3 (0.5%)
	C	2.6 (4.6%)	0.2 (0.3%)
	AVG	2.3 (4.1%)	0.2 (0.3%)
MAY	W	2.5 (4.1%)	-0.3 (-0.4%)
	AN	1.6 (2.6%)	0 (0%)
	BN	1.8 (2.9%)	-0.3 (-0.5%)
	D	2.4 (3.8%)	0.1 (0.1%)
	C	2.2 (3.5%)	0 (0%)
	AVG	2.2 (3.5%)	-0.1 (-0.2%)
JUN	W	2.4 (3.6%)	-0.3 (-0.5%)
	AN	1.9 (2.9%)	-0.6 (-0.8%)
	BN	1.9 (2.8%)	-0.5 (-0.7%)
	D	3.5 (5.1%)	0.6 (0.8%)
	C	3.1 (4.6%)	0.1 (0.2%)
	AVG	2.6 (3.8%)	-0.1 (-0.2%)
JUL	W	2 (2.9%)	1.5 (2.2%)
	AN	2.6 (3.8%)	1.2 (1.7%)
	BN	2.6 (3.8%)	0.6 (0.8%)
	D	5.1 (7.6%)	2.9 (4.1%)
	C	5.3 (7.6%)	1 (1.4%)
	AVG	3.4 (4.9%)	1.5 (2.2%)

Alternative 6A: Feather River High-Flow Channel (below Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	1.7 (2.5%)	1.1 (1.5%)
	AN	2.5 (3.8%)	0.8 (1.1%)
	BN	1.9 (2.8%)	-0.2 (-0.3%)
	D	4.4 (6.6%)	0.5 (0.7%)
	C	3.8 (5.5%)	-0.2 (-0.3%)
	AVG	2.8 (4.1%)	0.5 (0.7%)
SEP	W	0.9 (1.4%)	1.6 (2.6%)
	AN	1.5 (2.4%)	2 (3.1%)
	BN	0.5 (0.8%)	-2.3 (-3.5%)
	D	2.3 (3.7%)	-0.2 (-0.3%)
	C	4 (6.2%)	-0.9 (-1.3%)
	AVG	1.7 (2.7%)	0.2 (0.3%)
OCT	W	3.2 (5.4%)	-0.8 (-1.2%)
	AN	2.7 (4.5%)	-0.7 (-1.2%)
	BN	3.3 (5.6%)	-0.3 (-0.5%)
	D	3.2 (5.5%)	-1.1 (-1.7%)
	C	3.2 (5.4%)	-0.6 (-1%)
	AVG	3.1 (5.4%)	-0.7 (-1.2%)
NOV	W	3.3 (6.2%)	-1 (-1.8%)
	AN	3.4 (6.3%)	-0.6 (-1.1%)
	BN	3.6 (6.8%)	-0.5 (-1%)
	D	3.9 (7.3%)	-0.8 (-1.4%)
	C	3.7 (6.8%)	-0.4 (-0.7%)
	AVG	3.5 (6.7%)	-0.7 (-1.3%)
DEC	W	3.5 (7.3%)	0 (0.1%)
	AN	3.8 (8%)	-0.7 (-1.3%)
	BN	3.7 (7.9%)	-0.5 (-1%)
	D	3.9 (8.2%)	-0.2 (-0.4%)
	C	3.7 (7.9%)	-0.2 (-0.3%)
	AVG	3.7 (7.8%)	-0.2 (-0.5%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.6.12 Feather River at Gridley Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
3 **the Feather River at Gridley Dam, Year-Round**

Alternative 6A: Feather River at Gridley Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	47	50	50
	AN	47	49	50
	BN	46	49	49
	D	46	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	49	52	52
	BN	50	53	53
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	51	54	54
	AN	53	54	54
	BN	54	57	57
	D	55	57	57
	C	54	57	57
	AVG	53	56	56
APR	W	56	58	58
	AN	58	60	60
	BN	59	61	61
	D	59	61	61
	C	58	61	61
	AVG	58	60	60
MAY	W	61	64	64
	AN	64	66	66
	BN	64	66	66
	D	64	66	67
	C	64	67	67
	AVG	63	66	66
JUN	W	67	69	69
	AN	69	71	71
	BN	69	71	71
	D	69	72	73
	C	69	72	72
	AVG	68	71	71
JUL	W	70	71	73
	AN	69	70	71
	BN	69	71	72
	D	69	71	74
	C	71	75	76
	AVG	70	72	73

Alternative 6A: Feather River at Gridley Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL
AUG	W	71	71	72
	AN	68	70	71
	BN	69	71	71
	D	68	72	72
	C	71	75	75
	AVG	69	72	72
SEP	W	65	64	66
	AN	65	64	66
	BN	66	69	66
	D	65	68	67
	C	66	70	69
	AVG	65	67	67
OCT	W	59	63	62
	AN	60	63	63
	BN	60	63	63
	D	59	63	62
	C	59	63	63
	AVG	59	63	62
NOV	W	53	57	56
	AN	54	58	57
	BN	53	57	57
	D	53	57	57
	C	54	57	57
	AVG	53	57	57
DEC	W	48	51	51
	AN	47	52	51
	BN	47	51	50
	D	47	51	50
	C	46	50	50
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Gridley Dam, Year-Round**

Alternative 6A: Feather River at Gridley Dam			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	3 (6.4%)	0.4 (0.7%)
	AN	3 (6.4%)	0 (0.1%)
	BN	2.9 (6.2%)	0.1 (0.3%)
	D	2.9 (6.5%)	0.1 (0.3%)
	C	3.3 (7.1%)	0 (0.1%)
	AVG	3 (6.5%)	0.2 (0.4%)
FEB	W	2.8 (5.6%)	0.1 (0.2%)
	AN	2.9 (5.8%)	-0.2 (-0.5%)
	BN	3.1 (6.3%)	0.1 (0.3%)
	D	2.9 (5.8%)	0.1 (0.3%)
	C	3.2 (6.3%)	0.1 (0.2%)
	AVG	2.9 (5.9%)	0.1 (0.1%)
MAR	W	2.5 (4.9%)	0.2 (0.4%)
	AN	1.4 (2.6%)	-0.3 (-0.6%)
	BN	3 (5.7%)	0 (0.1%)
	D	2.7 (4.9%)	0.2 (0.3%)
	C	2.9 (5.3%)	0 (0%)
	AVG	2.5 (4.8%)	0.1 (0.1%)
APR	W	2.1 (3.8%)	0.1 (0.2%)
	AN	2.4 (4.1%)	0.1 (0.2%)
	BN	2 (3.3%)	0.1 (0.2%)
	D	2.6 (4.4%)	0.2 (0.4%)
	C	2.6 (4.5%)	0.1 (0.2%)
	AVG	2.3 (4%)	0.1 (0.2%)
MAY	W	2.7 (4.4%)	-0.3 (-0.5%)
	AN	1.9 (2.9%)	0 (0%)
	BN	1.9 (2.9%)	-0.2 (-0.3%)
	D	2.4 (3.7%)	0.2 (0.3%)
	C	2.3 (3.6%)	0 (0.1%)
	AVG	2.3 (3.7%)	-0.1 (-0.1%)
JUN	W	2.5 (3.8%)	-0.2 (-0.3%)
	AN	1.9 (2.8%)	-0.6 (-0.8%)
	BN	1.9 (2.8%)	-0.4 (-0.6%)
	D	3.7 (5.3%)	0.8 (1.1%)
	C	3.2 (4.6%)	0.1 (0.1%)
	AVG	2.7 (4%)	0 (0%)
JUL	W	2.1 (3%)	1.5 (2.1%)
	AN	2.8 (4%)	1.2 (1.7%)
	BN	2.7 (4%)	0.6 (0.8%)
	D	5.4 (7.8%)	2.9 (4.1%)
	C	5.4 (7.7%)	1 (1.4%)
	AVG	3.5 (5%)	1.5 (2.1%)

Alternative 6A: Feather River at Gridley Dam			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	1.6 (2.3%)	1 (1.4%)
	AN	2.6 (3.8%)	0.8 (1.1%)
	BN	2.1 (3%)	-0.3 (-0.4%)
	D	4.6 (6.7%)	0.3 (0.4%)
	C	3.5 (5%)	-0.6 (-0.9%)
	AVG	2.8 (4%)	0.3 (0.5%)
SEP	W	0.5 (0.7%)	1.7 (2.7%)
	AN	1.2 (1.9%)	2 (3.1%)
	BN	0.5 (0.7%)	-2.4 (-3.5%)
	D	2.2 (3.4%)	-1.1 (-1.6%)
	C	3.8 (5.9%)	-0.9 (-1.2%)
	AVG	1.5 (2.2%)	0 (0.1%)
OCT	W	3.2 (5.5%)	-0.7 (-1.1%)
	AN	2.7 (4.5%)	-0.6 (-1%)
	BN	3.4 (5.7%)	-0.3 (-0.4%)
	D	3.3 (5.6%)	-0.9 (-1.4%)
	C	3.2 (5.4%)	-0.5 (-0.8%)
	AVG	3.2 (5.4%)	-0.6 (-1%)
NOV	W	3.2 (6.1%)	-0.9 (-1.6%)
	AN	3.3 (6.1%)	-0.6 (-1%)
	BN	3.5 (6.6%)	-0.5 (-0.9%)
	D	3.8 (7.2%)	-0.7 (-1.2%)
	C	3.6 (6.7%)	-0.4 (-0.7%)
	AVG	3.5 (6.5%)	-0.7 (-1.2%)
DEC	W	3.5 (7.3%)	0.1 (0.1%)
	AN	3.7 (7.8%)	-0.6 (-1.2%)
	BN	3.6 (7.7%)	-0.5 (-1%)
	D	3.7 (8%)	-0.2 (-0.4%)
	C	3.6 (7.7%)	-0.2 (-0.3%)
	AVG	3.6 (7.6%)	-0.2 (-0.5%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.6.13 Feather River at Honcut Creek**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
3 **the Feather River at Honcut Creek, Year-Round**

Alternative 6A: Feather River at Honcut Creek				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	47	50	50
	AN	46	49	50
	BN	46	49	49
	D	45	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	49	53	52
	BN	50	53	53
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	52	54	54
	AN	53	55	54
	BN	54	57	57
	D	55	58	58
	C	55	58	58
	AVG	53	56	56
APR	W	56	58	58
	AN	59	61	61
	BN	60	62	62
	D	60	62	62
	C	59	62	62
	AVG	58	61	61
MAY	W	62	65	65
	AN	65	67	67
	BN	65	67	67
	D	65	67	67
	C	65	68	68
	AVG	64	67	67
JUN	W	67	70	70
	AN	69	72	71
	BN	69	72	71
	D	70	73	74
	C	69	73	73
	AVG	69	72	72
JUL	W	71	72	73
	AN	69	71	72
	BN	69	72	72
	D	69	72	75
	C	71	76	77
	AVG	70	72	74

Alternative 6A: Feather River at Honcut Creek				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL
AUG	W	72	72	73
	AN	69	71	71
	BN	69	72	72
	D	68	73	73
	C	72	76	75
	AVG	70	73	73
SEP	W	66	64	66
	AN	66	65	67
	BN	67	69	67
	D	66	70	68
	C	66	71	70
	AVG	66	68	67
OCT	W	59	63	62
	AN	60	64	63
	BN	60	64	63
	D	59	63	62
	C	60	64	63
	AVG	60	63	63
NOV	W	53	57	56
	AN	54	58	57
	BN	53	57	57
	D	53	57	56
	C	54	57	57
	AVG	53	57	56
DEC	W	47	51	51
	AN	47	52	51
	BN	46	51	50
	D	46	50	50
	C	46	50	50
	AVG	47	51	50

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Honcut Creek, Year-Round**

Alternative 6A: Feather River at Honcut Creek			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
JAN	W	3 (6.4%)	0.3 (0.7%)
	AN	3 (6.5%)	0.1 (0.1%)
	BN	2.8 (6.2%)	0.1 (0.2%)
	D	2.9 (6.4%)	0.1 (0.2%)
	C	3.2 (7%)	0 (0%)
	AVG	3 (6.5%)	0.2 (0.3%)
FEB	W	2.8 (5.7%)	0.1 (0.2%)
	AN	2.8 (5.7%)	-0.2 (-0.4%)
	BN	3.1 (6.2%)	0.1 (0.2%)
	D	2.9 (5.8%)	0.1 (0.2%)
	C	3.1 (6.1%)	0.1 (0.2%)
	AVG	2.9 (5.9%)	0.1 (0.1%)
MAR	W	2.5 (4.9%)	0.2 (0.4%)
	AN	1.4 (2.6%)	-0.4 (-0.7%)
	BN	3 (5.6%)	0 (0%)
	D	2.6 (4.8%)	0.2 (0.3%)
	C	2.8 (5.2%)	0 (0%)
	AVG	2.5 (4.7%)	0.1 (0.1%)
APR	W	2.1 (3.8%)	0.1 (0.1%)
	AN	2.4 (4.1%)	0.1 (0.2%)
	BN	2 (3.4%)	0.1 (0.1%)
	D	2.5 (4.2%)	0.2 (0.3%)
	C	2.6 (4.4%)	0.1 (0.2%)
	AVG	2.3 (3.9%)	0.1 (0.2%)
MAY	W	2.9 (4.6%)	-0.3 (-0.5%)
	AN	2.1 (3.2%)	0 (0%)
	BN	1.9 (2.9%)	-0.1 (-0.2%)
	D	2.4 (3.6%)	0.3 (0.5%)
	C	2.4 (3.7%)	0.1 (0.1%)
	AVG	2.4 (3.8%)	0 (-0.1%)
JUN	W	2.7 (4%)	-0.2 (-0.3%)
	AN	2 (2.8%)	-0.5 (-0.7%)
	BN	1.9 (2.8%)	-0.4 (-0.5%)
	D	3.8 (5.5%)	0.9 (1.2%)
	C	3.2 (4.6%)	0.1 (0.1%)
	AVG	2.8 (4%)	0 (0%)
JUL	W	2.2 (3.1%)	1.4 (2%)
	AN	2.9 (4.2%)	1.3 (1.8%)
	BN	2.9 (4.2%)	0.6 (0.8%)
	D	5.6 (8%)	2.9 (4.1%)
	C	5.5 (7.7%)	1 (1.4%)
	AVG	3.6 (5.2%)	1.5 (2.1%)

Alternative 6A: Feather River at Honcut Creek			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	1.6 (2.3%)	0.9 (1.3%)
	AN	2.7 (3.9%)	0.8 (1.1%)
	BN	2.2 (3.2%)	-0.2 (-0.3%)
	D	4.7 (6.9%)	0.2 (0.2%)
	C	3.2 (4.5%)	-1 (-1.3%)
	AVG	2.8 (4%)	0.3 (0.4%)
SEP	W	0.2 (0.4%)	1.8 (2.8%)
	AN	1.1 (1.7%)	2.1 (3.2%)
	BN	0.5 (0.8%)	-2.4 (-3.4%)
	D	2.1 (3.2%)	-1.7 (-2.5%)
	C	3.7 (5.6%)	-0.9 (-1.2%)
	AVG	1.3 (2%)	-0.1 (-0.1%)
OCT	W	3.3 (5.5%)	-0.6 (-1%)
	AN	2.7 (4.5%)	-0.5 (-0.8%)
	BN	3.4 (5.6%)	-0.2 (-0.4%)
	D	3.3 (5.6%)	-0.8 (-1.2%)
	C	3.3 (5.5%)	-0.5 (-0.8%)
	AVG	3.2 (5.4%)	-0.5 (-0.9%)
NOV	W	3.2 (6.1%)	-0.8 (-1.5%)
	AN	3.3 (6.1%)	-0.6 (-1%)
	BN	3.5 (6.6%)	-0.4 (-0.8%)
	D	3.7 (7.1%)	-0.6 (-1.1%)
	C	3.5 (6.6%)	-0.4 (-0.6%)
	AVG	3.4 (6.5%)	-0.6 (-1.1%)
DEC	W	3.4 (7.2%)	0.1 (0.1%)
	AN	3.7 (7.7%)	-0.7 (-1.3%)
	BN	3.5 (7.5%)	-0.5 (-1%)
	D	3.6 (7.8%)	-0.3 (-0.5%)
	C	3.4 (7.5%)	-0.1 (-0.3%)
	AVG	3.5 (7.5%)	-0.2 (-0.5%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.6.14 Feather River at the Confluence with the Sacramento**
2 **River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
4 **the Feather River at the Confluence with the Sacramento River, Year-Round**

Alternative 6A: Feather River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	47	48	49
	AN	46	48	48
	BN	46	47	47
	D	45	47	47
	C	45	48	48
	AVG	46	48	48
FEB	W	50	52	52
	AN	50	52	52
	BN	50	51	51
	D	50	52	52
	C	51	53	53
	AVG	50	52	52
MAR	W	53	55	55
	AN	54	56	56
	BN	55	57	57
	D	55	57	57
	C	56	58	58
	AVG	55	56	56
APR	W	59	60	60
	AN	60	62	62
	BN	61	62	62
	D	62	64	64
	C	63	65	65
	AVG	61	63	63
MAY	W	65	68	67
	AN	66	69	69
	BN	67	69	69
	D	68	70	71
	C	68	71	71
	AVG	66	69	69
JUN	W	70	73	73
	AN	71	75	75
	BN	72	75	75
	D	73	77	78
	C	72	76	76
	AVG	71	75	75

Alternative 6A: Feather River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JUL	W	74	76	77
	AN	72	75	76
	BN	73	76	76
	D	73	76	79
	C	75	79	80
	AVG	73	76	78
AUG	W	73	76	77
	AN	71	74	75
	BN	72	75	75
	D	72	76	77
	C	75	79	78
	AVG	73	76	76
SEP	W	71	70	71
	AN	70	70	71
	BN	70	73	72
	D	70	74	73
	C	70	74	74
	AVG	70	72	72
OCT	W	61	64	64
	AN	62	64	64
	BN	61	64	64
	D	61	64	64
	C	62	65	65
	AVG	61	64	64
NOV	W	52	55	55
	AN	53	56	56
	BN	53	55	55
	D	52	55	55
	C	53	56	56
	AVG	53	55	55
DEC	W	47	49	49
	AN	47	50	49
	BN	46	49	48
	D	46	49	48
	C	45	47	47
	AVG	46	49	48

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

Alternative 6A: Feather River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	2.1 (4.5%)	0.2 (0.5%)
	AN	1.9 (4%)	0 (0%)
	BN	1.9 (4.1%)	0 (0.1%)
	D	2.1 (4.7%)	0 (0.1%)
	C	2.2 (4.8%)	-0.1 (-0.2%)
	AVG	2 (4.4%)	0.1 (0.1%)
FEB	W	2.1 (4.1%)	0.1 (0.3%)
	AN	2 (3.9%)	0 (0%)
	BN	1.7 (3.5%)	0 (0.1%)
	D	1.9 (3.8%)	0 (0%)
	C	2.3 (4.4%)	0.1 (0.2%)
	AVG	2 (3.9%)	0.1 (0.1%)
MAR	W	1.8 (3.4%)	0.1 (0.1%)
	AN	1.2 (2.3%)	-0.1 (-0.2%)
	BN	1.9 (3.4%)	0 (0%)
	D	1.8 (3.3%)	0.1 (0.2%)
	C	2.1 (3.7%)	0 (0%)
	AVG	1.8 (3.3%)	0 (0.1%)
APR	W	1.6 (2.8%)	0 (0%)
	AN	1.9 (3.2%)	0 (0%)
	BN	1.7 (2.7%)	0 (0%)
	D	2.1 (3.4%)	0 (0.1%)
	C	2.3 (3.6%)	0.1 (0.1%)
	AVG	1.9 (3.1%)	0 (0%)
MAY	W	2.9 (4.5%)	-0.1 (-0.1%)
	AN	3 (4.5%)	0 (0%)
	BN	2.6 (3.9%)	0 (0.1%)
	D	3 (4.4%)	0.3 (0.4%)
	C	2.8 (4.2%)	0.1 (0.2%)
	AVG	2.9 (4.3%)	0.1 (0.1%)
JUN	W	3.4 (5%)	0 (0%)
	AN	3.3 (4.6%)	-0.1 (-0.1%)
	BN	3.1 (4.4%)	-0.2 (-0.3%)
	D	4.6 (6.3%)	0.8 (1%)
	C	3.7 (5.1%)	0.2 (0.2%)
	AVG	3.7 (5.1%)	0.1 (0.2%)
JUL	W	3.9 (5.3%)	1.3 (1.7%)
	AN	3.8 (5.2%)	1.1 (1.5%)
	BN	3.6 (5%)	0.5 (0.7%)
	D	5.8 (8%)	2.5 (3.3%)
	C	5.5 (7.4%)	1 (1.3%)
	AVG	4.5 (6.2%)	1.4 (1.8%)

Alternative 6A: Feather River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	3.5 (4.8%)	1 (1.3%)
	AN	3.4 (4.8%)	0.7 (0.9%)
	BN	3.2 (4.5%)	0.2 (0.2%)
	D	5.2 (7.2%)	0.5 (0.6%)
	C	3.6 (4.9%)	-0.7 (-0.9%)
	AVG	3.8 (5.3%)	0.4 (0.6%)
SEP	W	0.9 (1.3%)	1.6 (2.3%)
	AN	1.6 (2.3%)	1.7 (2.4%)
	BN	1.5 (2.1%)	-1.5 (-2%)
	D	2.6 (3.7%)	-1.8 (-2.4%)
	C	3.5 (5%)	-0.1 (-0.2%)
	AVG	1.9 (2.7%)	0.1 (0.1%)
OCT	W	3 (4.9%)	-0.2 (-0.3%)
	AN	2.4 (4%)	-0.1 (-0.2%)
	BN	2.9 (4.7%)	-0.1 (-0.1%)
	D	2.9 (4.8%)	-0.2 (-0.3%)
	C	3 (4.9%)	-0.3 (-0.4%)
	AVG	2.9 (4.7%)	-0.2 (-0.3%)
NOV	W	2.5 (4.7%)	-0.3 (-0.5%)
	AN	2.6 (4.8%)	-0.3 (-0.6%)
	BN	2.7 (5%)	-0.2 (-0.3%)
	D	2.6 (4.9%)	-0.2 (-0.4%)
	C	2.6 (4.9%)	-0.2 (-0.3%)
	AVG	2.6 (4.9%)	-0.2 (-0.4%)
DEC	W	2.1 (4.4%)	0.1 (0.3%)
	AN	2.4 (5%)	-0.6 (-1.1%)
	BN	2.4 (5.1%)	-0.4 (-0.8%)
	D	2.4 (5.2%)	-0.2 (-0.4%)
	C	2.3 (5.1%)	0 (-0.1%)
	AVG	2.3 (4.9%)	-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.

1 **11D.6.15 American River below Nimbus Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
3 **the American River below Nimbus Dam, Year-Round**

Alternative 6A: American River below Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	47	50	50
	AN	47	49	50
	BN	46	49	49
	D	47	49	49
	C	47	50	50
	AVG	47	50	50
FEB	W	48	51	51
	AN	48	52	52
	BN	47	51	51
	D	49	52	52
	C	51	54	54
	AVG	48	52	52
MAR	W	52	55	55
	AN	53	56	56
	BN	53	56	56
	D	53	57	56
	C	55	58	58
	AVG	53	56	56
APR	W	56	59	59
	AN	57	60	60
	BN	57	61	61
	D	59	62	62
	C	59	63	62
	AVG	58	60	60
MAY	W	60	64	64
	AN	61	66	66
	BN	61	65	65
	D	64	67	67
	C	64	68	68
	AVG	62	66	66
JUN	W	64	67	67
	AN	65	68	68
	BN	65	68	68
	D	67	69	70
	C	68	72	72
	AVG	66	68	69
JUL	W	66	68	68
	AN	66	66	67
	BN	66	67	68
	D	67	69	69
	C	70	74	73
	AVG	67	69	69

Alternative 6A: American River below Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LLТ
AUG	W	67	70	69
	AN	67	69	69
	BN	67	69	69
	D	67	71	71
	C	70	76	77
	AVG	67	71	71
SEP	W	65	68	68
	AN	66	69	68
	BN	66	69	68
	D	66	71	71
	C	68	73	73
	AVG	66	70	69
OCT	W	58	68	68
	AN	59	68	68
	BN	58	68	68
	D	59	67	68
	C	61	68	68
	AVG	59	68	68
NOV	W	57	61	61
	AN	57	61	61
	BN	56	61	61
	D	57	61	61
	C	58	61	61
	AVG	57	61	61
DEC	W	50	53	53
	AN	51	53	53
	BN	50	52	52
	D	50	53	53
	C	50	52	52
	AVG	50	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the American River below Nimbus Dam, Year-Round**

Alternative 6A: American River below Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	3.1 (6.7%)	0 (0.1%)
	AN	2.8 (6%)	0.2 (0.3%)
	BN	3 (6.6%)	0 (0.1%)
	D	2.9 (6.2%)	0 (0.1%)
	C	2.9 (6.2%)	-0.1 (-0.2%)
	AVG	3 (6.4%)	0 (0.1%)
FEB	W	3.5 (7.2%)	0 (0%)
	AN	3.8 (8%)	0 (0.1%)
	BN	3.2 (6.8%)	-0.1 (-0.1%)
	D	3.4 (7%)	0 (0%)
	C	3.4 (6.7%)	0.1 (0.2%)
	AVG	3.4 (7.1%)	0 (0%)
MAR	W	3.1 (6%)	0 (0%)
	AN	2.9 (5.6%)	0 (0%)
	BN	2.9 (5.4%)	0.3 (0.5%)
	D	3.3 (6.2%)	-0.1 (-0.3%)
	C	2.9 (5.4%)	0 (0%)
	AVG	3.1 (5.8%)	0 (0%)
APR	W	2.9 (5.3%)	0 (0%)
	AN	3.2 (5.5%)	0 (0%)
	BN	3.1 (5.4%)	0 (-0.1%)
	D	2.8 (4.7%)	0.2 (0.4%)
	C	3 (5%)	-0.3 (-0.4%)
	AVG	3 (5.2%)	0 (0%)
MAY	W	4.1 (6.9%)	-0.1 (-0.1%)
	AN	4.6 (7.5%)	-0.2 (-0.3%)
	BN	4.1 (6.7%)	-0.1 (-0.1%)
	D	2.9 (4.6%)	-0.1 (-0.2%)
	C	3.5 (5.4%)	-0.2 (-0.3%)
	AVG	3.8 (6.2%)	-0.1 (-0.2%)
JUN	W	2.9 (4.6%)	-0.1 (-0.1%)
	AN	3 (4.6%)	0.2 (0.2%)
	BN	3 (4.6%)	0 (0%)
	D	2.5 (3.7%)	0.6 (0.9%)
	C	4.4 (6.5%)	0.1 (0.2%)
	AVG	3.1 (4.7%)	0.2 (0.2%)
JUL	W	1.1 (1.7%)	-0.4 (-0.6%)
	AN	0.9 (1.3%)	0.4 (0.7%)
	BN	1.6 (2.5%)	0.5 (0.7%)
	D	2.2 (3.3%)	-0.1 (-0.1%)
	C	3.2 (4.6%)	-1.2 (-1.6%)
	AVG	1.7 (2.6%)	-0.2 (-0.2%)

Alternative 6A: American River below Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	2.5 (3.7%)	-0.7 (-1%)
	AN	1.7 (2.6%)	-0.3 (-0.5%)
	BN	1.6 (2.4%)	-0.2 (-0.3%)
	D	3.8 (5.7%)	-0.4 (-0.6%)
	C	6.6 (9.4%)	0.3 (0.4%)
	AVG	3.1 (4.6%)	-0.3 (-0.5%)
SEP	W	3 (4.5%)	0.3 (0.4%)
	AN	2.9 (4.4%)	-0.2 (-0.3%)
	BN	2.3 (3.4%)	-0.5 (-0.7%)
	D	4.5 (6.7%)	-0.5 (-0.8%)
	C	4.8 (7%)	0 (0%)
	AVG	3.4 (5.2%)	-0.1 (-0.2%)
OCT	W	9.3 (16%)	0 (0%)
	AN	8.5 (14.3%)	-0.3 (-0.4%)
	BN	9.6 (16.4%)	-0.2 (-0.2%)
	D	8.5 (14.4%)	0.2 (0.3%)
	C	7.1 (11.7%)	-0.3 (-0.4%)
	AVG	8.7 (14.8%)	0 (-0.1%)
NOV	W	4.1 (7.2%)	0.3 (0.4%)
	AN	4 (7%)	0.2 (0.3%)
	BN	4.3 (7.7%)	0 (-0.1%)
	D	4 (7.1%)	0.2 (0.3%)
	C	3.5 (6.1%)	-0.1 (-0.1%)
	AVG	4 (7.1%)	0.1 (0.2%)
DEC	W	2.8 (5.6%)	0.2 (0.4%)
	AN	2.9 (5.8%)	0.2 (0.4%)
	BN	2.7 (5.5%)	0 (0%)
	D	2.8 (5.6%)	0.1 (0.2%)
	C	2.3 (4.7%)	-0.2 (-0.4%)
	AVG	2.7 (5.5%)	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.

1 **11D.6.16 American River at Watt Avenue**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
3 **the American River at Watt Avenue, Year-Round**

Alternative 6A: American River at Watt Avenue				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	46	49	49
	C	46	49	49
	AVG	46	49	49
FEB	W	48	52	52
	AN	48	52	52
	BN	48	51	51
	D	49	52	52
	C	51	54	54
	AVG	49	52	52
MAR	W	53	56	56
	AN	53	56	56
	BN	54	56	56
	D	54	57	57
	C	56	58	58
	AVG	54	56	56
APR	W	56	59	59
	AN	58	61	61
	BN	58	61	61
	D	60	63	63
	C	61	64	64
	AVG	58	61	61
MAY	W	61	65	65
	AN	62	67	67
	BN	62	67	66
	D	65	68	68
	C	66	69	69
	AVG	63	67	67
JUN	W	65	68	68
	AN	67	70	70
	BN	67	70	70
	D	69	71	72
	C	69	73	73
	AVG	67	70	70
JUL	W	68	70	70
	AN	67	68	69
	BN	67	69	70
	D	68	71	71
	C	72	76	75
	AVG	68	71	71

Alternative 6A: American River at Watt Avenue				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LLТ
AUG	W	68	72	71
	AN	69	72	71
	BN	69	72	71
	D	69	73	73
	C	71	77	77
	AVG	69	73	73
SEP	W	66	69	69
	AN	66	70	70
	BN	67	70	70
	D	67	72	72
	C	69	73	73
	AVG	67	71	71
OCT	W	59	67	67
	AN	60	67	67
	BN	59	68	67
	D	60	67	67
	C	61	68	68
	AVG	60	67	67
NOV	W	56	60	60
	AN	56	60	60
	BN	56	60	60
	D	56	59	60
	C	57	60	60
	AVG	56	60	60
DEC	W	50	52	52
	AN	50	52	53
	BN	49	51	52
	D	49	52	52
	C	49	51	51
	AVG	49	52	52

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the American River at Watt Avenue, Year-Round**

Alternative 6A: American River at Watt Avenue			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	3.1 (6.7%)	0 (0.1%)
	AN	2.8 (6%)	0.1 (0.3%)
	BN	3 (6.5%)	0.1 (0.1%)
	D	2.8 (6.1%)	0.1 (0.2%)
	C	2.9 (6.1%)	-0.1 (-0.1%)
	AVG	2.9 (6.4%)	0 (0.1%)
FEB	W	3.4 (7.1%)	0 (0%)
	AN	3.7 (7.7%)	0 (0%)
	BN	3.1 (6.5%)	-0.1 (-0.1%)
	D	3.2 (6.5%)	0 (0%)
	C	3.3 (6.4%)	0 (0.1%)
	AVG	3.3 (6.8%)	0 (0%)
MAR	W	3 (5.7%)	0 (0%)
	AN	2.8 (5.3%)	0 (0%)
	BN	2.7 (5.1%)	0.2 (0.3%)
	D	3.1 (5.7%)	-0.1 (-0.2%)
	C	2.8 (5%)	0.1 (0.2%)
	AVG	2.9 (5.4%)	0 (0%)
APR	W	2.8 (5%)	0 (0%)
	AN	3.1 (5.4%)	0 (0%)
	BN	3 (5.1%)	0 (0%)
	D	2.8 (4.7%)	0.3 (0.4%)
	C	2.8 (4.5%)	-0.1 (-0.1%)
	AVG	2.9 (4.9%)	0 (0.1%)
MAY	W	4.2 (6.9%)	-0.1 (-0.1%)
	AN	4.6 (7.4%)	-0.2 (-0.3%)
	BN	4 (6.4%)	-0.1 (-0.2%)
	D	2.9 (4.4%)	-0.1 (-0.1%)
	C	3.2 (4.9%)	-0.1 (-0.1%)
	AVG	3.8 (6%)	-0.1 (-0.2%)
JUN	W	3.3 (5.1%)	-0.2 (-0.2%)
	AN	3.1 (4.6%)	0.2 (0.2%)
	BN	3.1 (4.7%)	0 (0.1%)
	D	2.8 (4.1%)	0.6 (0.8%)
	C	4 (5.7%)	0 (0%)
	AVG	3.2 (4.8%)	0.1 (0.2%)
JUL	W	1.7 (2.5%)	-0.4 (-0.5%)
	AN	1.4 (2.1%)	0.6 (0.8%)
	BN	2.4 (3.5%)	0.7 (1%)
	D	2.9 (4.3%)	0 (0.1%)
	C	2.9 (4%)	-1 (-1.3%)
	AVG	2.2 (3.2%)	-0.1 (-0.1%)

Alternative 6A: American River at Watt Avenue			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
AUG	W	3.4 (5%)	-0.7 (-1%)
	AN	2.6 (3.8%)	-0.3 (-0.5%)
	BN	2.3 (3.4%)	-0.2 (-0.3%)
	D	4.5 (6.5%)	-0.1 (-0.1%)
	C	5.6 (7.9%)	0.2 (0.2%)
	AVG	3.7 (5.3%)	-0.3 (-0.4%)
SEP	W	3.6 (5.4%)	0.6 (0.9%)
	AN	3.3 (5%)	-0.1 (-0.1%)
	BN	3.2 (4.7%)	-0.2 (-0.2%)
	D	4.5 (6.7%)	-0.3 (-0.4%)
	C	4.3 (6.3%)	0 (0%)
	AVG	3.8 (5.7%)	0.1 (0.1%)
OCT	W	7.8 (13.2%)	0.1 (0.1%)
	AN	7.2 (12.1%)	-0.2 (-0.4%)
	BN	8.1 (13.7%)	-0.1 (-0.2%)
	D	7 (11.8%)	0.2 (0.3%)
	C	6.1 (9.9%)	-0.1 (-0.2%)
	AVG	7.4 (12.3%)	0 (0%)
NOV	W	3.8 (6.7%)	0.2 (0.4%)
	AN	3.7 (6.6%)	0.2 (0.3%)
	BN	3.9 (7.1%)	-0.1 (-0.1%)
	D	3.6 (6.5%)	0.2 (0.3%)
	C	3.3 (5.8%)	-0.1 (-0.1%)
	AVG	3.7 (6.6%)	0.1 (0.2%)
DEC	W	2.7 (5.5%)	0.2 (0.4%)
	AN	2.8 (5.6%)	0.2 (0.4%)
	BN	2.6 (5.4%)	0 (0%)
	D	2.7 (5.5%)	0.2 (0.4%)
	C	2.1 (4.3%)	-0.2 (-0.4%)
	AVG	2.6 (5.3%)	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.

1 **11D.6.17 American River at the Confluence with the**
2 **Sacramento River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
4 **the American River at the Confluence with the Sacramento River, Year-Round**

Alternative 6A: American River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL
JAN	W	47	50	50
	AN	46	49	49
	BN	46	48	48
	D	46	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	48	52	52
	AN	48	52	52
	BN	48	51	51
	D	49	52	52
	C	51	55	55
	AVG	49	52	52
MAR	W	53	56	56
	AN	53	56	56
	BN	54	56	56
	D	55	58	57
	C	56	59	59
	AVG	54	57	57
APR	W	57	60	60
	AN	58	61	61
	BN	59	62	62
	D	61	63	63
	C	62	64	64
	AVG	59	62	62
MAY	W	61	66	65
	AN	63	68	68
	BN	63	67	67
	D	66	69	69
	C	67	70	70
	AVG	64	67	67
JUN	W	65	69	69
	AN	68	71	71
	BN	68	71	71
	D	70	72	73
	C	70	74	74
	AVG	68	71	71

Alternative 6A: American River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LLT
JUL	W	69	71	71
	AN	68	69	70
	BN	68	70	71
	D	69	72	72
	C	73	76	75
	AVG	69	72	72
AUG	W	69	73	73
	AN	69	73	72
	BN	70	73	73
	D	69	74	74
	C	72	77	77
	AVG	70	74	74
SEP	W	66	69	70
	AN	67	70	70
	BN	67	71	71
	D	68	72	72
	C	69	74	74
	AVG	67	71	71
OCT	W	60	67	67
	AN	60	67	67
	BN	60	67	67
	D	60	66	66
	C	62	67	67
	AVG	60	67	67
NOV	W	56	60	60
	AN	56	60	60
	BN	55	59	59
	D	56	59	59
	C	57	60	60
	AVG	56	59	59
DEC	W	49	52	52
	AN	49	52	52
	BN	48	51	51
	D	49	51	51
	C	48	50	50
	AVG	49	51	51

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

Alternative 6A: American River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A6A_LL1	NAA vs. A6A_LL1
JAN	W	3.1 (6.7%)	0 (0.1%)
	AN	2.9 (6.1%)	0.1 (0.3%)
	BN	2.9 (6.4%)	0.1 (0.1%)
	D	2.7 (6%)	0.1 (0.2%)
	C	2.9 (6.2%)	-0.1 (-0.1%)
	AVG	2.9 (6.3%)	0.1 (0.1%)
FEB	W	3.4 (7%)	0 (0%)
	AN	3.7 (7.7%)	0 (0.1%)
	BN	3 (6.3%)	-0.1 (-0.1%)
	D	3.1 (6.3%)	0 (0%)
	C	3.2 (6.2%)	0 (0%)
	AVG	3.3 (6.7%)	0 (0%)
MAR	W	2.9 (5.5%)	0 (0%)
	AN	2.8 (5.2%)	0 (0%)
	BN	2.6 (4.9%)	0.1 (0.3%)
	D	3 (5.4%)	-0.1 (-0.2%)
	C	2.7 (4.8%)	0.1 (0.2%)
	AVG	2.8 (5.2%)	0 (0%)
APR	W	2.8 (4.9%)	0 (0%)
	AN	3 (5.2%)	0 (0%)
	BN	2.9 (5%)	0 (0%)
	D	2.8 (4.7%)	0.2 (0.4%)
	C	2.6 (4.3%)	0 (0%)
	AVG	2.8 (4.8%)	0 (0.1%)
MAY	W	4.3 (6.9%)	-0.1 (-0.1%)
	AN	4.6 (7.4%)	-0.2 (-0.3%)
	BN	4 (6.3%)	-0.1 (-0.2%)
	D	2.9 (4.4%)	-0.1 (-0.1%)
	C	3.1 (4.7%)	-0.1 (-0.1%)
	AVG	3.8 (5.9%)	-0.1 (-0.2%)
JUN	W	3.5 (5.3%)	-0.2 (-0.3%)
	AN	3.2 (4.7%)	0.2 (0.2%)
	BN	3.2 (4.7%)	0.1 (0.1%)
	D	3 (4.3%)	0.5 (0.7%)
	C	3.9 (5.5%)	0 (0%)
	AVG	3.3 (4.9%)	0.1 (0.1%)
JUL	W	2 (2.9%)	-0.3 (-0.5%)
	AN	1.7 (2.4%)	0.6 (0.9%)
	BN	2.8 (4.1%)	0.8 (1.1%)
	D	3.2 (4.7%)	0.1 (0.1%)
	C	2.8 (3.9%)	-0.9 (-1.2%)
	AVG	2.5 (3.6%)	0 (0%)

Alternative 6A: American River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	3.9 (5.7%)	-0.7 (-1%)
	AN	3 (4.3%)	-0.3 (-0.5%)
	BN	2.7 (3.9%)	-0.2 (-0.3%)
	D	4.7 (6.8%)	0 (0%)
	C	5.3 (7.3%)	0.2 (0.2%)
	AVG	4 (5.7%)	-0.3 (-0.4%)
SEP	W	3.9 (5.9%)	0.8 (1.1%)
	AN	3.6 (5.3%)	-0.1 (-0.1%)
	BN	3.6 (5.3%)	0 (0%)
	D	4.5 (6.6%)	-0.2 (-0.3%)
	C	4.1 (5.9%)	0 (0%)
	AVG	4 (5.9%)	0.2 (0.3%)
OCT	W	7.1 (11.8%)	0.1 (0.1%)
	AN	6.6 (10.9%)	-0.2 (-0.4%)
	BN	7.3 (12.2%)	-0.1 (-0.2%)
	D	6.3 (10.5%)	0.2 (0.3%)
	C	5.5 (8.9%)	-0.1 (-0.1%)
	AVG	6.6 (11%)	0 (0%)
NOV	W	3.6 (6.5%)	0.2 (0.4%)
	AN	3.6 (6.4%)	0.1 (0.2%)
	BN	3.7 (6.7%)	-0.1 (-0.2%)
	D	3.4 (6.2%)	0.2 (0.3%)
	C	3.2 (5.6%)	0 (-0.1%)
	AVG	3.5 (6.3%)	0.1 (0.2%)
DEC	W	2.7 (5.4%)	0.2 (0.4%)
	AN	2.7 (5.5%)	0.2 (0.4%)
	BN	2.6 (5.4%)	0 (0%)
	D	2.6 (5.3%)	0.3 (0.5%)
	C	2 (4.1%)	-0.2 (-0.4%)
	AVG	2.5 (5.2%)	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.

1 **11D.6.18 Stanislaus River at Knights Ferry**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
3 **the Stanislaus River at Knights Ferry, Year-Round**

Alternative 6A: Stanislaus River at Knights Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	48	51	51
	C	49	52	52
	AVG	49	52	52
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	49	52	52
	AN	49	53	53
	BN	51	54	54
	D	51	54	54
	C	52	55	55
	AVG	50	54	54
APR	W	50	53	53
	AN	50	54	54
	BN	51	55	55
	D	52	55	55
	C	53	57	57
	AVG	51	54	54
MAY	W	51	55	55
	AN	53	56	56
	BN	54	57	57
	D	55	58	58
	C	56	59	59
	AVG	53	57	57
JUN	W	54	56	56
	AN	56	59	59
	BN	58	61	61
	D	59	63	62
	C	60	64	63
	AVG	57	60	60
JUL	W	57	59	59
	AN	59	62	62
	BN	60	63	63
	D	61	65	65
	C	62	66	66
	AVG	59	63	63

Alternative 6A: Stanislaus River at Knights Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL
AUG	W	58	61	61
	AN	60	63	63
	BN	60	64	64
	D	61	65	65
	C	62	67	67
	AVG	60	64	64
SEP	W	59	62	62
	AN	60	64	64
	BN	61	64	64
	D	62	65	65
	C	63	67	67
	AVG	61	64	64
OCT	W	59	62	62
	AN	59	62	62
	BN	59	62	62
	D	58	62	62
	C	60	64	64
	AVG	59	63	63
NOV	W	56	59	59
	AN	56	59	59
	BN	56	59	59
	D	56	59	59
	C	57	61	61
	AVG	56	60	60
DEC	W	52	55	55
	AN	52	55	55
	BN	51	54	54
	D	51	54	54
	C	52	55	55
	AVG	51	55	55

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Knights Ferry, Year-Round**

Alternative 6A: Stanislaus River at Knights Ferry			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
JAN	W	3.1 (6.3%)	0 (0%)
	AN	3.1 (6.4%)	0 (0%)
	BN	3.1 (6.4%)	0 (0%)
	D	3 (6.3%)	0 (0%)
	C	3 (6.2%)	0 (0%)
	AVG	3.1 (6.3%)	0 (0%)
FEB	W	3.1 (6.4%)	0 (0%)
	AN	3.2 (6.6%)	0 (0%)
	BN	3 (6.2%)	0 (0%)
	D	3.2 (6.5%)	0 (0%)
	C	3.1 (6.2%)	0 (0%)
	AVG	3.1 (6.4%)	0 (0%)
MAR	W	3.2 (6.5%)	0 (0%)
	AN	3.6 (7.3%)	0 (0%)
	BN	3.1 (6.1%)	0 (0%)
	D	3.3 (6.5%)	0 (0%)
	C	3 (5.8%)	0 (0%)
	AVG	3.2 (6.5%)	0 (0%)
APR	W	3.1 (6.2%)	0 (0%)
	AN	3.3 (6.6%)	0 (0.1%)
	BN	3.4 (6.7%)	0 (0%)
	D	3.5 (6.7%)	0 (0%)
	C	3.6 (6.7%)	0 (0%)
	AVG	3.3 (6.5%)	0 (0%)
MAY	W	3 (5.9%)	0 (0%)
	AN	3.2 (6%)	0 (0.1%)
	BN	3.5 (6.5%)	0 (0%)
	D	3.4 (6.2%)	0 (0%)
	C	3.3 (5.9%)	0 (0%)
	AVG	3.2 (6.1%)	0 (0%)
JUN	W	2.6 (4.8%)	0 (0%)
	AN	3.4 (6.1%)	0.1 (0.1%)
	BN	3.5 (6.1%)	-0.1 (-0.1%)
	D	3.6 (6.1%)	-0.2 (-0.3%)
	C	3.9 (6.5%)	-0.3 (-0.4%)
	AVG	3.3 (5.8%)	-0.1 (-0.1%)
JUL	W	2.5 (4.4%)	0 (0%)
	AN	3.3 (5.7%)	0 (0%)
	BN	3.5 (5.8%)	0 (-0.1%)
	D	3.7 (6%)	-0.1 (-0.1%)
	C	4 (6.5%)	-0.1 (-0.1%)
	AVG	3.3 (5.6%)	0 (-0.1%)

Alternative 6A: Stanislaus River at Knights Ferry			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	3.4 (5.8%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)
	BN	3.4 (5.7%)	0 (-0.1%)
	D	3.5 (5.7%)	-0.1 (-0.1%)
	C	4.3 (6.9%)	0 (0%)
	AVG	3.6 (6%)	0 (0%)
SEP	W	3.5 (6%)	0 (0%)
	AN	3.6 (6%)	0 (0%)
	BN	3.6 (5.9%)	0 (0%)
	D	3.7 (5.9%)	0 (0%)
	C	4.1 (6.5%)	0.2 (0.3%)
	AVG	3.7 (6.1%)	0 (0.1%)
OCT	W	3.5 (5.9%)	0 (0%)
	AN	3 (5.1%)	0 (0%)
	BN	3.3 (5.7%)	0 (0.1%)
	D	3.5 (5.9%)	0 (0%)
	C	3.7 (6.2%)	0 (0.1%)
	AVG	3.4 (5.8%)	0 (0%)
NOV	W	3.3 (5.8%)	0 (0%)
	AN	3 (5.4%)	0 (-0.1%)
	BN	3.3 (5.9%)	0 (0%)
	D	3.4 (6.1%)	0 (0%)
	C	3.5 (6.1%)	0 (0%)
	AVG	3.3 (5.8%)	0 (0%)
DEC	W	3.3 (6.4%)	0 (0%)
	AN	3 (5.9%)	0 (0%)
	BN	3.3 (6.4%)	0 (0%)
	D	3.2 (6.2%)	0 (0%)
	C	3.3 (6.4%)	0 (0%)
	AVG	3.2 (6.3%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.6.19 Stanislaus River at Orange Blossom Bridge**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
3 **the Stanislaus River at Orange Blossom Bridge, Year-Round**

Alternative 6A: Stanislaus River at Orange Blossom Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	48	51	51
	AN	48	51	51
	BN	48	51	51
	D	47	50	50
	C	48	51	51
	AVG	48	51	51
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	49	53	53
	AN	50	54	54
	BN	52	55	55
	D	52	56	56
	C	53	56	56
	AVG	51	54	54
APR	W	50	53	53
	AN	51	54	54
	BN	52	56	56
	D	53	56	56
	C	55	58	58
	AVG	52	55	55
MAY	W	53	56	56
	AN	54	57	57
	BN	55	59	59
	D	56	60	60
	C	58	61	61
	AVG	55	58	58
JUN	W	56	58	58
	AN	58	62	62
	BN	60	64	64
	D	62	66	66
	C	63	67	66
	AVG	59	63	63
JUL	W	60	62	62
	AN	63	66	66
	BN	63	67	67
	D	64	68	68
	C	65	69	69
	AVG	63	66	66

Alternative 6A: Stanislaus River at Orange Blossom Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL
AUG	W	60	64	64
	AN	63	66	66
	BN	63	66	66
	D	64	68	67
	C	65	69	69
	AVG	63	66	66
SEP	W	60	64	64
	AN	63	66	66
	BN	63	67	67
	D	63	67	67
	C	64	68	68
	AVG	62	66	66
OCT	W	59	62	62
	AN	59	62	62
	BN	59	62	62
	D	59	62	62
	C	60	64	64
	AVG	59	62	63
NOV	W	55	58	58
	AN	55	58	58
	BN	55	58	58
	D	55	58	58
	C	56	59	59
	AVG	55	58	58
DEC	W	50	54	54
	AN	50	53	53
	BN	49	53	53
	D	50	52	52
	C	50	53	53
	AVG	50	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Orange Blossom Bridge, Year-Round**

Alternative 6A: Stanislaus River at Orange Blossom Bridge			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
JAN	W	3 (6.2%)	0 (0%)
	AN	3 (6.3%)	0 (0%)
	BN	2.9 (6.1%)	0 (0%)
	D	2.8 (5.9%)	0 (0%)
	C	2.8 (5.8%)	0 (0%)
	AVG	2.9 (6.1%)	0 (0%)
FEB	W	3.1 (6.3%)	0 (0%)
	AN	3.1 (6.3%)	0 (0%)
	BN	2.9 (6%)	0 (0%)
	D	3.2 (6.5%)	0 (0%)
	C	3.2 (6.3%)	0 (0%)
	AVG	3.1 (6.3%)	0 (0%)
MAR	W	3.2 (6.4%)	0 (0%)
	AN	3.7 (7.3%)	0 (0%)
	BN	3 (5.8%)	0 (0%)
	D	3.4 (6.5%)	0 (0%)
	C	3.1 (5.8%)	0 (0%)
	AVG	3.3 (6.4%)	0 (0%)
APR	W	3.1 (6.1%)	0 (0%)
	AN	3.4 (6.6%)	0.1 (0.1%)
	BN	3.5 (6.7%)	0 (0%)
	D	3.6 (6.8%)	0 (0%)
	C	3.7 (6.7%)	0 (0%)
	AVG	3.4 (6.5%)	0 (0%)
MAY	W	3.2 (6%)	0 (0%)
	AN	3.3 (6.2%)	0.1 (0.1%)
	BN	3.9 (7.1%)	0 (0%)
	D	3.6 (6.5%)	0 (0%)
	C	3.5 (6%)	0 (0.1%)
	AVG	3.4 (6.3%)	0 (0%)
JUN	W	2.3 (4.2%)	0 (0.1%)
	AN	3.9 (6.7%)	0.1 (0.2%)
	BN	3.7 (6.1%)	-0.3 (-0.4%)
	D	3.7 (6%)	-0.6 (-0.9%)
	C	3.7 (5.9%)	-0.4 (-0.5%)
	AVG	3.3 (5.6%)	-0.2 (-0.3%)
JUL	W	2.1 (3.5%)	0 (0%)
	AN	3.5 (5.6%)	0 (0%)
	BN	3.5 (5.5%)	0 (0%)
	D	3.9 (6%)	0.1 (0.1%)
	C	4 (6.2%)	0 (0%)
	AVG	3.3 (5.2%)	0 (0%)

Alternative 6A: Stanislaus River at Orange Blossom Bridge			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	3.9 (6.4%)	0 (0%)
	AN	3.5 (5.6%)	0 (0%)
	BN	3.4 (5.5%)	0 (0%)
	D	3.4 (5.4%)	-0.1 (-0.1%)
	C	4.2 (6.5%)	0 (0%)
	AVG	3.7 (6%)	0 (0%)
SEP	W	3.8 (6.3%)	0 (0%)
	AN	3.9 (6.2%)	0 (0%)
	BN	3.8 (6%)	0 (0%)
	D	3.7 (5.9%)	0 (0%)
	C	4.1 (6.3%)	0.1 (0.2%)
	AVG	3.8 (6.2%)	0 (0%)
OCT	W	3.4 (5.7%)	0 (0.1%)
	AN	3 (5.1%)	0 (0%)
	BN	3.2 (5.4%)	0 (0%)
	D	3.4 (5.8%)	0 (0%)
	C	3.6 (5.9%)	0 (0%)
	AVG	3.3 (5.6%)	0 (0%)
NOV	W	3.1 (5.7%)	0 (0%)
	AN	3 (5.5%)	0 (0%)
	BN	3.2 (5.8%)	0 (0%)
	D	3.2 (5.9%)	0 (0%)
	C	3.2 (5.8%)	0 (0%)
	AVG	3.2 (5.7%)	0 (0%)
DEC	W	3.2 (6.3%)	0 (0%)
	AN	2.9 (5.8%)	0 (0%)
	BN	3.3 (6.6%)	0 (0%)
	D	3 (6%)	0 (0%)
	C	3.1 (6.2%)	0 (0%)
	AVG	3.1 (6.2%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.6.20 Stanislaus River at Riverbank**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
3 **the Stanislaus River at Riverbank, Year-Round**

Alternative 6A: Stanislaus River at Riverbank				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	45	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	50	53	53
	BN	50	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	51	54	54
	AN	52	55	55
	BN	53	56	56
	D	54	57	57
	C	54	57	57
	AVG	52	56	56
APR	W	52	55	55
	AN	53	56	56
	BN	54	57	57
	D	54	58	58
	C	57	60	60
	AVG	54	57	57
MAY	W	56	59	59
	AN	57	60	60
	BN	58	62	62
	D	59	62	62
	C	60	64	64
	AVG	58	61	61
JUN	W	60	62	62
	AN	62	66	66
	BN	64	68	68
	D	66	70	70
	C	66	70	69
	AVG	63	67	66
JUL	W	65	67	67
	AN	68	71	71
	BN	68	71	71
	D	68	72	72
	C	68	72	72
	AVG	67	70	70

Alternative 6A: Stanislaus River at Riverbank				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LLТ
AUG	W	65	69	69
	AN	67	70	70
	BN	67	70	70
	D	68	71	71
	C	67	71	71
	AVG	66	70	70
SEP	W	64	67	67
	AN	66	70	70
	BN	66	69	69
	D	66	70	69
	C	66	70	70
	AVG	65	69	69
OCT	W	59	63	63
	AN	59	62	62
	BN	59	62	62
	D	59	62	62
	C	61	64	64
	AVG	60	63	63
NOV	W	53	56	56
	AN	53	56	56
	BN	53	56	56
	D	53	56	56
	C	54	57	57
	AVG	53	56	56
DEC	W	48	51	51
	AN	48	50	50
	BN	47	50	50
	D	47	50	50
	C	47	50	50
	AVG	47	50	50

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Riverbank, Year-Round**

Alternative 6A: Stanislaus River at Riverbank			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
JAN	W	2.9 (6.3%)	0 (0%)
	AN	3 (6.4%)	0 (0%)
	BN	2.8 (6%)	0 (0%)
	D	2.5 (5.6%)	0 (0%)
	C	2.7 (5.8%)	0 (0%)
	AVG	2.8 (6%)	0 (0%)
FEB	W	2.9 (5.9%)	0 (0%)
	AN	2.9 (5.8%)	0 (0%)
	BN	2.7 (5.5%)	0 (0%)
	D	3 (6.1%)	0 (0%)
	C	3.1 (6%)	0 (0%)
	AVG	2.9 (5.9%)	0 (0%)
MAR	W	3 (5.9%)	0 (0%)
	AN	3.6 (7%)	0 (0%)
	BN	2.8 (5.3%)	0 (0%)
	D	3.4 (6.4%)	0 (0%)
	C	3 (5.6%)	0 (0%)
	AVG	3.2 (6%)	0 (0%)
APR	W	3 (5.7%)	0 (0%)
	AN	3.3 (6.2%)	0.1 (0.1%)
	BN	3.6 (6.6%)	0 (0%)
	D	3.6 (6.7%)	0 (0%)
	C	3.6 (6.4%)	0 (0%)
	AVG	3.4 (6.2%)	0 (0%)
MAY	W	3.2 (5.8%)	0 (0%)
	AN	3.5 (6.2%)	0.1 (0.2%)
	BN	4.2 (7.3%)	0 (0%)
	D	3.9 (6.6%)	0 (0%)
	C	3.5 (5.8%)	0 (0.1%)
	AVG	3.6 (6.2%)	0 (0%)
JUN	W	2.1 (3.5%)	0 (0.1%)
	AN	4 (6.5%)	0 (0.1%)
	BN	3.5 (5.4%)	-0.2 (-0.3%)
	D	3.4 (5.2%)	-0.6 (-0.8%)
	C	3.3 (5%)	-0.3 (-0.5%)
	AVG	3.1 (4.9%)	-0.2 (-0.3%)
JUL	W	1.9 (2.8%)	0 (0%)
	AN	3.3 (4.8%)	0 (0%)
	BN	3.1 (4.6%)	0 (0%)
	D	3.7 (5.4%)	0.1 (0.1%)
	C	3.5 (5.2%)	0 (0.1%)
	AVG	2.9 (4.4%)	0 (0%)

Alternative 6A: Stanislaus River at Riverbank			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	4.1 (6.4%)	0 (0%)
	AN	3.4 (5.1%)	0 (0%)
	BN	3.2 (4.8%)	0 (0%)
	D	3.3 (4.8%)	0 (0%)
	C	3.8 (5.7%)	0 (0%)
	AVG	3.6 (5.5%)	0 (0%)
SEP	W	3.9 (6.2%)	0 (0%)
	AN	3.9 (5.9%)	0 (0%)
	BN	3.7 (5.7%)	0 (0%)
	D	3.7 (5.6%)	0 (0%)
	C	3.7 (5.7%)	-0.1 (-0.1%)
	AVG	3.8 (5.9%)	0 (0%)
OCT	W	3.1 (5.3%)	0 (0%)
	AN	2.9 (5%)	0 (0%)
	BN	2.9 (4.9%)	0 (0%)
	D	3.1 (5.2%)	0 (0%)
	C	3.3 (5.5%)	0 (0%)
	AVG	3.1 (5.2%)	0 (0%)
NOV	W	3.1 (5.7%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)
	BN	3.1 (5.8%)	0 (0%)
	D	3.1 (5.8%)	0 (0%)
	C	3 (5.6%)	0 (0%)
	AVG	3.1 (5.8%)	0 (0%)
DEC	W	3.1 (6.5%)	0 (0%)
	AN	2.9 (6.1%)	0 (0%)
	BN	3.3 (7%)	0 (0%)
	D	2.8 (5.9%)	0 (0%)
	C	2.9 (6.2%)	0 (0%)
	AVG	3 (6.3%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.6.21 Stanislaus River at the Confluence with the San**
2 **Joaquin River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 6A Model Scenarios in**
4 **the Stanislaus River at the Confluence with the San Joaquin River, Year-Round**

Alternative 6A: Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL1
JAN	W	46	49	49
	AN	46	49	49
	BN	46	49	49
	D	45	47	47
	C	45	48	48
	AVG	46	48	48
FEB	W	50	53	53
	AN	50	53	53
	BN	50	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	52	55	55
	AN	53	56	56
	BN	54	57	57
	D	55	58	58
	C	55	58	58
	AVG	54	56	56
APR	W	54	57	57
	AN	55	58	58
	BN	56	60	60
	D	57	60	60
	C	59	62	62
	AVG	56	59	59
MAY	W	59	62	62
	AN	60	63	64
	BN	60	64	64
	D	61	65	65
	C	63	66	66
	AVG	60	64	64
JUN	W	62	65	65
	AN	65	69	69
	BN	66	70	69
	D	68	72	71
	C	68	71	71
	AVG	65	69	69

Alternative 6A: Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT	EXISTING CONDITIONS	NAA	A6A_LL
JUL	W	68	70	70
	AN	70	73	73
	BN	70	73	73
	D	70	74	74
	C	70	73	73
	AVG	69	72	72
AUG	W	67	71	71
	AN	69	72	72
	BN	68	71	71
	D	69	72	72
	C	69	72	72
	AVG	68	72	72
SEP	W	65	69	69
	AN	67	71	71
	BN	67	70	70
	D	67	70	70
	C	67	70	70
	AVG	66	70	70
OCT	W	60	63	63
	AN	60	62	62
	BN	59	62	62
	D	59	62	62
	C	61	64	64
	AVG	60	63	63
NOV	W	53	56	56
	AN	52	55	55
	BN	52	55	55
	D	52	55	55
	C	53	56	56
	AVG	52	55	55
DEC	W	47	50	50
	AN	46	49	49
	BN	45	49	49
	D	45	48	48
	C	45	48	48
	AVG	46	49	49

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

Alternative 6A: Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
JAN	W	2.9 (6.3%)	0 (0%)
	AN	2.9 (6.4%)	0 (0%)
	BN	2.8 (6.1%)	0 (0%)
	D	2.5 (5.7%)	0 (0%)
	C	2.8 (6.1%)	0 (0%)
	AVG	2.8 (6.2%)	0 (0%)
FEB	W	2.8 (5.7%)	0 (0%)
	AN	2.8 (5.6%)	0 (0%)
	BN	2.6 (5.2%)	0 (0%)
	D	2.8 (5.6%)	0 (0%)
	C	2.9 (5.6%)	0 (0%)
	AVG	2.8 (5.6%)	0 (0%)
MAR	W	2.8 (5.5%)	0 (0%)
	AN	3.3 (6.3%)	0 (0%)
	BN	2.6 (4.9%)	0 (0%)
	D	3.2 (5.8%)	0 (0%)
	C	2.8 (5.1%)	0 (0%)
	AVG	3 (5.5%)	0 (0%)
APR	W	2.8 (5.2%)	0 (0%)
	AN	3.2 (5.7%)	0.1 (0.1%)
	BN	3.4 (6.1%)	0 (0%)
	D	3.5 (6.1%)	0 (0%)
	C	3.3 (5.5%)	0 (0%)
	AVG	3.2 (5.7%)	0 (0%)
MAY	W	3.1 (5.4%)	0 (0%)
	AN	3.5 (5.8%)	0.1 (0.1%)
	BN	4.1 (6.7%)	0 (0%)
	D	3.7 (6%)	0 (0%)
	C	3.3 (5.2%)	0.1 (0.1%)
	AVG	3.5 (5.7%)	0 (0%)
JUN	W	2.3 (3.7%)	0 (0.1%)
	AN	3.8 (5.8%)	0 (0.1%)
	BN	3.2 (4.9%)	-0.1 (-0.2%)
	D	3.1 (4.6%)	-0.3 (-0.4%)
	C	3 (4.5%)	-0.2 (-0.3%)
	AVG	3 (4.6%)	-0.1 (-0.1%)
JUL	W	2.3 (3.4%)	0 (0%)
	AN	3 (4.2%)	0 (0%)
	BN	2.8 (4.1%)	0 (0%)
	D	3.2 (4.6%)	0 (0%)
	C	3.2 (4.5%)	0 (0%)
	AVG	2.8 (4.1%)	0 (0%)

Alternative 6A: Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT	EXISTING CONDITIONS vs. A6A_LLT	NAA vs. A6A_LLT
AUG	W	4.1 (6.1%)	0 (0%)
	AN	3.2 (4.7%)	0 (0%)
	BN	3.1 (4.5%)	0 (0%)
	D	3.1 (4.5%)	0 (0%)
	C	3.6 (5.2%)	0 (0%)
	AVG	3.5 (5.1%)	0 (0%)
SEP	W	3.9 (6%)	0 (0%)
	AN	3.7 (5.6%)	0 (0%)
	BN	3.7 (5.5%)	0 (0%)
	D	3.6 (5.5%)	0 (0%)
	C	3.5 (5.3%)	-0.1 (-0.2%)
	AVG	3.7 (5.6%)	0 (0%)
OCT	W	3 (5%)	0 (0%)
	AN	2.9 (4.8%)	0 (0%)
	BN	2.7 (4.5%)	0 (0%)
	D	2.9 (4.9%)	0 (0%)
	C	3.2 (5.3%)	0 (0%)
	AVG	3 (4.9%)	0 (0%)
NOV	W	3 (5.8%)	0 (0%)
	AN	3.2 (6%)	0 (0%)
	BN	3.1 (5.9%)	0 (0%)
	D	3.1 (5.9%)	0 (0%)
	C	3 (5.6%)	0 (0%)
	AVG	3.1 (5.8%)	0 (0%)
DEC	W	3.1 (6.6%)	0 (0%)
	AN	2.9 (6.2%)	0 (0%)
	BN	3.2 (7.1%)	0 (0%)
	D	2.8 (6.1%)	0 (0%)
	C	2.9 (6.4%)	0 (0%)
	AVG	3 (6.5%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.7 Alternative 7**

2 **11D.7.1 Sacramento River at Keswick**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
4 **Sacramento River at Keswick, Year-Round**

Alternative 7: Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	46	47	47
	AN	46	48	48
	BN	47	48	48
	D	47	48	48
	C	47	48	48
	AVG	46	48	48
FEB	W	45	47	47
	AN	46	47	47
	BN	46	47	47
	D	46	48	48
	C	46	48	48
	AVG	46	47	47
MAR	W	46	47	47
	AN	46	48	48
	BN	47	48	48
	D	47	49	49
	C	48	50	50
	AVG	47	48	48
APR	W	47	49	49
	AN	48	50	50
	BN	48	50	50
	D	48	50	50
	C	49	51	51
	AVG	48	50	50
MAY	W	49	50	50
	AN	49	51	51
	BN	49	51	51
	D	49	51	51
	C	51	53	53
	AVG	49	51	51
JUN	W	50	51	50
	AN	50	51	51
	BN	50	51	51
	D	50	52	52
	C	53	55	55
	AVG	50	52	52

Alternative 7: Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
JUL	W	51	52	52
	AN	51	52	52
	BN	51	52	52
	D	51	54	54
	C	54	59	59
	AVG	51	53	53
AUG	W	52	54	54
	AN	52	54	55
	BN	52	54	55
	D	53	56	56
	C	57	64	65
	AVG	53	56	56
SEP	W	53	55	55
	AN	54	56	56
	BN	54	56	57
	D	55	59	59
	C	60	66	66
	AVG	55	58	58
OCT	W	54	57	57
	AN	54	57	57
	BN	54	57	58
	D	55	58	59
	C	56	60	60
	AVG	54	58	58
NOV	W	53	55	55
	AN	52	55	55
	BN	53	55	55
	D	53	56	56
	C	54	56	56
	AVG	53	55	55
DEC	W	49	50	50
	AN	49	51	51
	BN	50	52	52
	D	50	52	52
	C	51	52	52
	AVG	50	51	51

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

Alternative 7: Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS	
		vs. A7_LL1	NAA vs. A7_LL1
JAN	W	1.3 (2.9%)	0 (0%)
	AN	1.5 (3.2%)	0 (0.1%)
	BN	1.6 (3.5%)	-0.1 (-0.1%)
	D	1.5 (3.3%)	-0.1 (-0.1%)
	C	1.6 (3.4%)	-0.2 (-0.5%)
	AVG	1.5 (3.2%)	-0.1 (-0.1%)
FEB	W	1.5 (3.4%)	0 (0%)
	AN	1.7 (3.7%)	0.1 (0.2%)
	BN	1.5 (3.3%)	0 (-0.1%)
	D	1.7 (3.6%)	-0.1 (-0.1%)
	C	1.6 (3.5%)	-0.2 (-0.3%)
	AVG	1.6 (3.5%)	0 (-0.1%)
MAR	W	1.5 (3.3%)	0 (0%)
	AN	1.7 (3.7%)	0.1 (0.2%)
	BN	1.7 (3.6%)	0.1 (0.2%)
	D	1.6 (3.5%)	0 (-0.1%)
	C	1.9 (4%)	0 (0%)
	AVG	1.6 (3.5%)	0 (0.1%)
APR	W	1.7 (3.6%)	0 (0.1%)
	AN	1.7 (3.6%)	0 (0.1%)
	BN	1.6 (3.4%)	0.3 (0.5%)
	D	1.6 (3.3%)	0.1 (0.1%)
	C	2.1 (4.3%)	0 (0%)
	AVG	1.7 (3.6%)	0.1 (0.2%)
MAY	W	1.7 (3.5%)	0 (-0.1%)
	AN	1.4 (2.8%)	0.1 (0.1%)
	BN	1.7 (3.3%)	0.3 (0.6%)
	D	1.6 (3.3%)	0.1 (0.2%)
	C	2.2 (4.3%)	0.2 (0.3%)
	AVG	1.7 (3.4%)	0.1 (0.2%)
JUN	W	0.8 (1.6%)	-0.2 (-0.3%)
	AN	1.2 (2.3%)	-0.1 (-0.1%)
	BN	1.3 (2.5%)	0 (0.1%)
	D	2 (3.9%)	0.1 (0.1%)
	C	2.3 (4.5%)	0.2 (0.4%)
	AVG	1.4 (2.8%)	0 (0%)
JUL	W	1 (2.1%)	0.1 (0.2%)
	AN	1.5 (2.9%)	0.1 (0.2%)
	BN	1.2 (2.4%)	-0.1 (-0.2%)
	D	2.4 (4.6%)	0 (0%)
	C	5.2 (9.7%)	0.1 (0.1%)
	AVG	2 (4%)	0 (0.1%)

Alternative 7: Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A7_LLT	NAA vs. A7_LLT
AUG	W	2.1 (4.1%)	0.2 (0.3%)
	AN	2.2 (4.3%)	0.4 (0.7%)
	BN	2.7 (5.3%)	0.4 (0.7%)
	D	3.5 (6.6%)	0.5 (0.9%)
	C	8.3 (14.7%)	0.8 (1.2%)
	AVG	3.4 (6.5%)	0.4 (0.7%)
SEP	W	1.9 (3.6%)	0.3 (0.5%)
	AN	2.4 (4.5%)	0.2 (0.3%)
	BN	3.6 (6.8%)	1 (1.7%)
	D	4.7 (8.5%)	0.2 (0.4%)
	C	6.2 (10.3%)	0.3 (0.4%)
	AVG	3.5 (6.4%)	0.4 (0.6%)
OCT	W	3.1 (5.8%)	0.1 (0.1%)
	AN	2.8 (5.2%)	0 (0%)
	BN	3.4 (6.3%)	0.4 (0.6%)
	D	3.6 (6.6%)	0.1 (0.1%)
	C	3.8 (6.8%)	0.1 (0.1%)
	AVG	3.3 (6.1%)	0.1 (0.2%)
NOV	W	2.3 (4.4%)	0.1 (0.2%)
	AN	2.3 (4.4%)	0.1 (0.2%)
	BN	2.4 (4.6%)	0 (0%)
	D	2.4 (4.5%)	0 (0.1%)
	C	2.3 (4.3%)	-0.2 (-0.3%)
	AVG	2.4 (4.5%)	0 (0%)
DEC	W	1.2 (2.5%)	0 (0%)
	AN	1.6 (3.2%)	-0.2 (-0.3%)
	BN	1.9 (3.8%)	-0.1 (-0.3%)
	D	1.8 (3.6%)	-0.1 (-0.3%)
	C	1.7 (3.4%)	-0.2 (-0.4%)
	AVG	1.6 (3.2%)	-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.

1 **11D.7.2 Sacramento River at Jelly’s Ferry**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
3 **Sacramento River at Jelly’s Ferry, Year-Round**

Alternative 7: Sacramento River at Jelly’s Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	45	46	46
	D	45	47	47
	C	45	47	47
	AVG	45	47	47
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	47
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	49	50
	AN	49	51	51
	BN	49	51	51
	D	50	51	51
	C	50	52	52
	AVG	49	51	51
APR	W	51	53	53
	AN	53	55	55
	BN	53	54	55
	D	52	54	54
	C	52	54	54
	AVG	52	54	54
MAY	W	54	57	57
	AN	55	57	56
	BN	54	57	57
	D	54	56	56
	C	55	57	57
	AVG	54	57	57
JUN	W	55	56	56
	AN	55	56	56
	BN	54	56	56
	D	54	56	57
	C	56	58	58
	AVG	55	56	56
JUL	W	56	57	57
	AN	55	56	56
	BN	55	56	56
	D	55	57	57
	C	57	62	62
	AVG	55	57	57

Alternative 7: Sacramento River at Jelly's Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
AUG	W	56	59	59
	AN	56	58	59
	BN	56	58	58
	D	56	59	60
	C	59	67	67
	AVG	57	60	60
SEP	W	56	57	58
	AN	57	59	59
	BN	57	60	61
	D	58	63	63
	C	61	67	67
	AVG	58	61	61
OCT	W	54	57	57
	AN	54	57	57
	BN	55	57	58
	D	55	58	58
	C	56	60	60
	AVG	55	58	58
NOV	W	51	53	53
	AN	51	53	53
	BN	51	54	54
	D	51	54	54
	C	52	55	54
	AVG	51	53	53
DEC	W	47	48	48
	AN	47	48	48
	BN	47	49	49
	D	47	49	48
	C	47	49	49
	AVG	47	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Jelly’s Ferry, Year-Round**

Alternative 7: Sacramento River at Jelly’s Ferry			
Month	WYT	EXISTING CONDITIONS	
		vs. A7_LL1	NAA vs. A7_LL1
JAN	W	1.5 (3.2%)	0 (0.1%)
	AN	1.5 (3.4%)	0 (0%)
	BN	1.7 (3.8%)	0 (0%)
	D	1.7 (3.8%)	-0.1 (-0.3%)
	C	1.9 (4.2%)	-0.3 (-0.6%)
	AVG	1.6 (3.6%)	-0.1 (-0.1%)
FEB	W	1.6 (3.4%)	0 (0%)
	AN	1.6 (3.5%)	0 (0.1%)
	BN	1.6 (3.5%)	0 (-0.1%)
	D	1.8 (4%)	0 (0%)
	C	1.8 (3.8%)	-0.2 (-0.4%)
	AVG	1.7 (3.6%)	0 (-0.1%)
MAR	W	1.5 (3%)	0 (0%)
	AN	1.6 (3.2%)	0 (0.1%)
	BN	1.8 (3.7%)	0.1 (0.3%)
	D	1.6 (3.3%)	0 (-0.1%)
	C	1.8 (3.7%)	0 (0.1%)
	AVG	1.6 (3.3%)	0 (0.1%)
APR	W	1.8 (3.5%)	0 (0.1%)
	AN	1.8 (3.4%)	-0.1 (-0.2%)
	BN	2 (3.9%)	0.3 (0.5%)
	D	2 (3.8%)	0.1 (0.3%)
	C	2.1 (4.1%)	0.1 (0.2%)
	AVG	1.9 (3.7%)	0.1 (0.2%)
MAY	W	2.8 (5.1%)	-0.1 (-0.3%)
	AN	1.5 (2.7%)	-0.2 (-0.3%)
	BN	2.4 (4.4%)	0.3 (0.5%)
	D	1.9 (3.6%)	0.1 (0.2%)
	C	1.9 (3.4%)	-0.1 (-0.1%)
	AVG	2.2 (4.1%)	0 (0%)
JUN	W	0.9 (1.7%)	-0.5 (-0.8%)
	AN	1.2 (2.1%)	-0.2 (-0.3%)
	BN	1.7 (3.1%)	0.1 (0.1%)
	D	2.1 (3.8%)	0.1 (0.2%)
	C	2.2 (3.9%)	0.2 (0.3%)
	AVG	1.5 (2.8%)	-0.1 (-0.2%)
JUL	W	1 (1.8%)	0 (0.1%)
	AN	1.4 (2.6%)	0 (0%)
	BN	1.4 (2.6%)	-0.3 (-0.5%)
	D	2.3 (4.1%)	-0.1 (-0.2%)
	C	5.1 (8.9%)	0.1 (0.1%)
	AVG	2 (3.6%)	-0.1 (-0.1%)

Alternative 7: Sacramento River at Jelly's Ferry			
Month	WYT	EXISTING CONDITIONS	NAA vs. A7_LLT
		vs. A7_LLT	
AUG	W	2.7 (4.8%)	0.2 (0.3%)
	AN	2.4 (4.2%)	0.5 (0.8%)
	BN	2.9 (5.2%)	0.2 (0.4%)
	D	3.5 (6.2%)	0.4 (0.7%)
	C	7.7 (13%)	0.6 (0.8%)
	AVG	3.6 (6.3%)	0.3 (0.6%)
SEP	W	1.4 (2.5%)	0.2 (0.3%)
	AN	1.7 (2.9%)	0.4 (0.6%)
	BN	4.1 (7.2%)	1.2 (2%)
	D	4.9 (8.5%)	0 (0.1%)
	C	5.6 (9%)	0.2 (0.4%)
	AVG	3.3 (5.7%)	0.4 (0.6%)
OCT	W	2.9 (5.3%)	0 (0%)
	AN	2.6 (4.8%)	0 (0%)
	BN	3.2 (5.9%)	0.3 (0.5%)
	D	3.2 (5.7%)	0 (0%)
	C	3.5 (6.1%)	0.1 (0.1%)
	AVG	3 (5.5%)	0.1 (0.1%)
NOV	W	2.2 (4.4%)	-0.1 (-0.1%)
	AN	2.2 (4.3%)	0 (-0.1%)
	BN	2.4 (4.7%)	-0.1 (-0.2%)
	D	2.3 (4.5%)	0 (0.1%)
	C	2.3 (4.4%)	-0.1 (-0.2%)
	AVG	2.3 (4.5%)	0 (-0.1%)
DEC	W	1.2 (2.5%)	0 (0%)
	AN	1.6 (3.4%)	-0.2 (-0.5%)
	BN	1.8 (3.8%)	-0.1 (-0.2%)
	D	1.7 (3.7%)	-0.2 (-0.4%)
	C	1.8 (3.9%)	-0.1 (-0.2%)
	AVG	1.6 (3.3%)	-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.

1 **11D.7.3 Sacramento River at Bend Bridge**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
3 **Sacramento River at Bend Bridge, Year-Round**

Alternative 7: Sacramento River at Bend Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	45	46	46
	D	45	47	46
	C	45	47	47
	AVG	45	47	47
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	47
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	50	50
	AN	49	51	51
	BN	49	51	51
	D	50	52	52
	C	50	52	52
	AVG	49	51	51
APR	W	51	53	53
	AN	53	55	55
	BN	53	55	55
	D	53	55	55
	C	52	54	55
	AVG	52	54	54
MAY	W	54	57	57
	AN	55	57	57
	BN	55	57	57
	D	55	56	57
	C	55	57	57
	AVG	55	57	57
JUN	W	56	57	57
	AN	55	57	56
	BN	55	57	57
	D	55	57	57
	C	57	59	59
	AVG	55	57	57
JUL	W	56	57	57
	AN	55	57	57
	BN	55	57	57
	D	56	58	58
	C	58	63	63
	AVG	56	58	58

Alternative 7: Sacramento River at Bend Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
AUG	W	57	59	59
	AN	57	59	59
	BN	56	59	59
	D	57	60	61
	C	60	67	68
	AVG	57	60	61
SEP	W	57	58	58
	AN	58	59	59
	BN	58	60	62
	D	58	63	63
	C	62	67	67
	AVG	58	61	61
OCT	W	54	57	57
	AN	55	57	57
	BN	55	58	58
	D	55	58	58
	C	56	60	60
	AVG	55	58	58
NOV	W	51	53	53
	AN	51	53	53
	BN	51	53	53
	D	51	54	54
	C	52	54	54
	AVG	51	53	53
DEC	W	47	48	48
	AN	46	48	48
	BN	47	49	48
	D	46	48	48
	C	47	49	49
	AVG	47	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Bend Bridge, Year-Round**

Alternative 7: Sacramento River at Bend Bridge			
Month	WYT	EXISTING CONDITIONS	
		vs. A7_LL1	NAA vs. A7_LL1
JAN	W	1.5 (3.3%)	0 (0.1%)
	AN	1.6 (3.5%)	0 (0%)
	BN	1.7 (3.9%)	0 (0%)
	D	1.8 (3.9%)	-0.1 (-0.3%)
	C	1.9 (4.3%)	-0.3 (-0.6%)
	AVG	1.7 (3.7%)	-0.1 (-0.1%)
FEB	W	1.6 (3.5%)	0 (0%)
	AN	1.7 (3.6%)	0 (0.1%)
	BN	1.7 (3.6%)	0 (-0.1%)
	D	1.9 (4.1%)	0 (0%)
	C	1.8 (3.9%)	-0.2 (-0.4%)
	AVG	1.7 (3.7%)	0 (-0.1%)
MAR	W	1.5 (3.1%)	0 (0%)
	AN	1.6 (3.3%)	0 (0.1%)
	BN	1.8 (3.7%)	0.1 (0.2%)
	D	1.6 (3.3%)	0 (-0.1%)
	C	1.9 (3.7%)	0 (0.1%)
	AVG	1.6 (3.4%)	0 (0.1%)
APR	W	1.8 (3.5%)	0 (0.1%)
	AN	1.8 (3.5%)	-0.1 (-0.2%)
	BN	2.1 (3.9%)	0.3 (0.5%)
	D	2 (3.8%)	0.1 (0.3%)
	C	2.2 (4.1%)	0.1 (0.2%)
	AVG	2 (3.7%)	0.1 (0.2%)
MAY	W	2.8 (5.2%)	-0.1 (-0.3%)
	AN	1.5 (2.8%)	-0.2 (-0.3%)
	BN	2.4 (4.4%)	0.2 (0.4%)
	D	2 (3.6%)	0.1 (0.2%)
	C	1.9 (3.4%)	-0.1 (-0.1%)
	AVG	2.2 (4.1%)	0 (0%)
JUN	W	1 (1.8%)	-0.5 (-0.8%)
	AN	1.2 (2.2%)	-0.2 (-0.3%)
	BN	1.7 (3.1%)	0.1 (0.1%)
	D	2.1 (3.8%)	0.1 (0.2%)
	C	2.2 (3.9%)	0.2 (0.3%)
	AVG	1.6 (2.8%)	-0.1 (-0.2%)
JUL	W	1 (1.8%)	0 (0.1%)
	AN	1.4 (2.6%)	0 (0%)
	BN	1.4 (2.6%)	-0.3 (-0.5%)
	D	2.3 (4.1%)	-0.1 (-0.3%)
	C	5.1 (8.7%)	0.1 (0.1%)
	AVG	2 (3.6%)	-0.1 (-0.1%)

Alternative 7: Sacramento River at Bend Bridge			
Month	WYT	EXISTING CONDITIONS	NAA vs. A7_LLT
		vs. A7_LLT	
AUG	W	2.8 (4.9%)	0.2 (0.3%)
	AN	2.4 (4.2%)	0.5 (0.8%)
	BN	2.9 (5.2%)	0.2 (0.4%)
	D	3.5 (6.2%)	0.4 (0.7%)
	C	7.6 (12.7%)	0.5 (0.8%)
	AVG	3.6 (6.3%)	0.3 (0.5%)
SEP	W	1.4 (2.5%)	0.2 (0.3%)
	AN	1.6 (2.8%)	0.4 (0.7%)
	BN	4.1 (7.2%)	1.2 (2%)
	D	4.9 (8.5%)	0 (0%)
	C	5.5 (8.9%)	0.2 (0.3%)
	AVG	3.3 (5.6%)	0.4 (0.6%)
OCT	W	2.9 (5.3%)	0 (0%)
	AN	2.6 (4.8%)	0 (0%)
	BN	3.2 (5.9%)	0.3 (0.5%)
	D	3.1 (5.7%)	0 (0%)
	C	3.4 (6.1%)	0.1 (0.1%)
	AVG	3 (5.5%)	0.1 (0.1%)
NOV	W	2.2 (4.4%)	-0.1 (-0.1%)
	AN	2.2 (4.3%)	0 (-0.1%)
	BN	2.4 (4.8%)	-0.1 (-0.2%)
	D	2.3 (4.6%)	0 (0.1%)
	C	2.3 (4.5%)	-0.1 (-0.1%)
	AVG	2.3 (4.5%)	-0.1 (-0.1%)
DEC	W	1.2 (2.5%)	0 (0%)
	AN	1.6 (3.5%)	-0.2 (-0.5%)
	BN	1.8 (3.9%)	-0.1 (-0.2%)
	D	1.8 (3.8%)	-0.2 (-0.4%)
	C	1.9 (4%)	-0.1 (-0.2%)
	AVG	1.6 (3.4%)	-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.

1 **11D.7.4 Sacramento River at Red Bluff Diversion Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
3 **Sacramento River at Red Bluff Diversion Dam, Year-Round**

Alternative 7: Sacramento River at Red Bluff Diversion Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL7
JAN	W	45	46	47
	AN	45	47	47
	BN	44	46	46
	D	44	46	46
	C	44	47	46
	AVG	45	46	46
FEB	W	46	47	48
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	50	50
	AN	49	51	51
	BN	49	51	51
	D	50	52	52
	C	51	53	53
	AVG	49	51	51
APR	W	52	54	54
	AN	53	55	55
	BN	54	55	56
	D	54	55	56
	C	53	55	55
	AVG	53	55	55
MAY	W	55	58	58
	AN	56	58	58
	BN	56	58	59
	D	56	58	58
	C	57	59	58
	AVG	56	58	58
JUN	W	57	59	58
	AN	57	58	58
	BN	57	58	58
	D	57	59	59
	C	58	60	60
	AVG	57	59	59
JUL	W	58	59	59
	AN	57	59	58
	BN	57	59	59
	D	57	60	60
	C	60	64	65
	AVG	58	60	60

Alternative 7: Sacramento River at Red Bluff Diversion Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
AUG	W	58	61	61
	AN	59	61	61
	BN	58	61	61
	D	59	62	62
	C	61	68	69
	AVG	59	62	62
SEP	W	58	59	59
	AN	59	60	61
	BN	59	62	63
	D	59	64	64
	C	63	68	68
	AVG	59	62	62
OCT	W	55	57	57
	AN	55	57	57
	BN	55	58	58
	D	55	59	59
	C	56	60	60
	AVG	55	58	58
NOV	W	50	53	53
	AN	50	53	53
	BN	51	53	53
	D	51	53	53
	C	52	54	54
	AVG	51	53	53
DEC	W	46	48	48
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	46	48	48
	AVG	46	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Red Bluff Diversion Dam, Year-Round**

Alternative 7: Sacramento River at Red Bluff Diversion Dam			
Month	WYT	EXISTING CONDITIONS	
		vs. A7_LL1	NAA vs. A7_LL1
JAN	W	1.5 (3.4%)	0 (0.1%)
	AN	1.6 (3.6%)	0 (0%)
	BN	1.8 (4%)	0 (0%)
	D	1.8 (4.1%)	-0.1 (-0.3%)
	C	2 (4.5%)	-0.3 (-0.6%)
	AVG	1.7 (3.9%)	-0.1 (-0.1%)
FEB	W	1.6 (3.5%)	0 (0%)
	AN	1.7 (3.7%)	0 (0.1%)
	BN	1.7 (3.7%)	0 (-0.1%)
	D	1.9 (4.2%)	0 (0%)
	C	1.9 (4%)	-0.2 (-0.4%)
	AVG	1.8 (3.8%)	0 (-0.1%)
MAR	W	1.5 (3.1%)	0 (0%)
	AN	1.6 (3.3%)	0 (0.1%)
	BN	1.9 (3.8%)	0.1 (0.2%)
	D	1.7 (3.4%)	0 (-0.1%)
	C	1.9 (3.8%)	0 (0.1%)
	AVG	1.7 (3.4%)	0 (0%)
APR	W	1.8 (3.6%)	0 (0.1%)
	AN	1.9 (3.5%)	-0.1 (-0.2%)
	BN	2.1 (4%)	0.3 (0.5%)
	D	2.1 (3.9%)	0.1 (0.3%)
	C	2.2 (4.1%)	0.1 (0.2%)
	AVG	2 (3.8%)	0.1 (0.2%)
MAY	W	2.9 (5.3%)	-0.2 (-0.3%)
	AN	1.6 (2.8%)	-0.2 (-0.4%)
	BN	2.5 (4.5%)	0.2 (0.4%)
	D	2.1 (3.7%)	0.1 (0.3%)
	C	1.9 (3.3%)	-0.1 (-0.2%)
	AVG	2.3 (4.1%)	0 (0%)
JUN	W	1.1 (2%)	-0.5 (-0.9%)
	AN	1.3 (2.3%)	-0.2 (-0.4%)
	BN	1.9 (3.3%)	0.1 (0.1%)
	D	2.2 (3.9%)	0.2 (0.3%)
	C	2.2 (3.7%)	0.1 (0.2%)
	AVG	1.7 (2.9%)	-0.1 (-0.2%)
JUL	W	1.1 (1.9%)	0 (0%)
	AN	1.5 (2.6%)	-0.1 (-0.1%)
	BN	1.5 (2.7%)	-0.3 (-0.5%)
	D	2.3 (4%)	-0.2 (-0.3%)
	C	4.9 (8.3%)	0.1 (0.1%)
	AVG	2.1 (3.5%)	-0.1 (-0.1%)

Alternative 7: Sacramento River at Red Bluff Diversion Dam			
Month	WYT	EXISTING CONDITIONS vs. A7_LLT	NAA vs. A7_LLT
AUG	W	2.9 (5.1%)	0.2 (0.3%)
	AN	2.5 (4.3%)	0.5 (0.8%)
	BN	2.9 (5.1%)	0.2 (0.3%)
	D	3.5 (6%)	0.4 (0.7%)
	C	7.4 (12.1%)	0.4 (0.6%)
	AVG	3.7 (6.2%)	0.3 (0.5%)
SEP	W	1.3 (2.3%)	0.1 (0.2%)
	AN	1.5 (2.6%)	0.4 (0.7%)
	BN	4.3 (7.3%)	1.2 (2%)
	D	5 (8.4%)	0 (0%)
	C	5.5 (8.7%)	0.2 (0.3%)
	AVG	3.3 (5.5%)	0.4 (0.6%)
OCT	W	2.8 (5.2%)	0 (0%)
	AN	2.6 (4.8%)	0 (0%)
	BN	3.2 (5.8%)	0.3 (0.5%)
	D	3.1 (5.5%)	0 (0%)
	C	3.4 (6%)	0.1 (0.1%)
	AVG	3 (5.4%)	0.1 (0.1%)
NOV	W	2.3 (4.5%)	-0.1 (-0.2%)
	AN	2.3 (4.5%)	-0.1 (-0.1%)
	BN	2.5 (4.9%)	-0.1 (-0.2%)
	D	2.4 (4.7%)	0 (0.1%)
	C	2.4 (4.6%)	-0.1 (-0.1%)
	AVG	2.4 (4.6%)	-0.1 (-0.1%)
DEC	W	1.2 (2.7%)	0 (0%)
	AN	1.7 (3.7%)	-0.2 (-0.4%)
	BN	1.9 (4.1%)	-0.1 (-0.2%)
	D	1.8 (4%)	-0.2 (-0.4%)
	C	2 (4.2%)	-0.1 (-0.2%)
	AVG	1.7 (3.6%)	-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.

1 **11D.7.5 Sacramento River at Hamilton City**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
3 **Sacramento River at Hamilton City, Year-Round**

Alternative 7: Sacramento River at Hamilton City				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	44	46	46
	D	44	46	46
	C	44	47	47
	AVG	45	47	47
FEB	W	46	48	48
	AN	47	48	48
	BN	46	48	48
	D	47	49	49
	C	48	50	50
	AVG	47	49	49
MAR	W	49	51	51
	AN	51	52	52
	BN	51	53	53
	D	52	54	53
	C	52	54	54
	AVG	51	52	53
APR	W	54	55	56
	AN	55	57	57
	BN	56	58	58
	D	56	58	58
	C	56	58	58
	AVG	55	57	57
MAY	W	58	62	61
	AN	60	62	61
	BN	59	62	62
	D	59	61	61
	C	60	62	62
	AVG	59	62	61
JUN	W	61	63	62
	AN	61	62	62
	BN	60	62	62
	D	60	63	63
	C	61	63	63
	AVG	61	63	62
JUL	W	62	63	63
	AN	61	63	62
	BN	61	63	63
	D	61	64	63
	C	63	68	68
	AVG	62	64	64

Alternative 7: Sacramento River at Hamilton City				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
AUG	W	62	65	65
	AN	62	64	65
	BN	62	65	65
	D	62	65	66
	C	65	71	72
	AVG	62	66	66
SEP	W	60	61	61
	AN	62	63	63
	BN	62	65	66
	D	62	67	67
	C	64	69	69
	AVG	62	65	65
OCT	W	55	58	58
	AN	56	58	58
	BN	56	59	59
	D	56	59	59
	C	57	60	60
	AVG	56	59	59
NOV	W	50	53	52
	AN	50	53	53
	BN	50	53	53
	D	51	53	53
	C	52	54	54
	AVG	51	53	53
DEC	W	46	47	47
	AN	46	48	47
	BN	45	48	47
	D	45	48	48
	C	45	48	47
	AVG	46	47	47

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Hamilton City, Year-Round**

Alternative 7: Sacramento River at Hamilton City			
Month	WYT	EXISTING CONDITIONS	
		vs. A7_LL1	NAA vs. A7_LL1
JAN	W	1.6 (3.6%)	0 (0%)
	AN	1.8 (3.9%)	0 (0%)
	BN	1.9 (4.4%)	0 (0%)
	D	2.1 (4.6%)	-0.1 (-0.2%)
	C	2.2 (5%)	-0.2 (-0.5%)
	AVG	1.9 (4.2%)	-0.1 (-0.1%)
FEB	W	1.7 (3.6%)	0 (0%)
	AN	1.8 (3.8%)	0 (0.1%)
	BN	1.8 (3.9%)	-0.1 (-0.1%)
	D	2.1 (4.4%)	0 (0%)
	C	2 (4.2%)	-0.2 (-0.5%)
	AVG	1.9 (4%)	0 (-0.1%)
MAR	W	1.5 (3.1%)	0 (0%)
	AN	1.7 (3.3%)	0 (0%)
	BN	2 (3.9%)	0.1 (0.2%)
	D	1.8 (3.4%)	0 (-0.1%)
	C	2 (3.8%)	0.1 (0.1%)
	AVG	1.7 (3.4%)	0 (0%)
APR	W	1.9 (3.5%)	0 (0.1%)
	AN	2 (3.6%)	-0.1 (-0.2%)
	BN	2.3 (4.1%)	0.3 (0.4%)
	D	2.2 (3.9%)	0.1 (0.3%)
	C	2.2 (4%)	0.2 (0.3%)
	AVG	2.1 (3.8%)	0.1 (0.2%)
MAY	W	3.1 (5.3%)	-0.2 (-0.3%)
	AN	1.7 (2.8%)	-0.3 (-0.5%)
	BN	2.7 (4.6%)	0.2 (0.3%)
	D	2.2 (3.7%)	0.2 (0.3%)
	C	1.8 (3.1%)	-0.2 (-0.3%)
	AVG	2.4 (4.1%)	-0.1 (-0.1%)
JUN	W	1.3 (2.1%)	-0.6 (-1%)
	AN	1.4 (2.3%)	-0.3 (-0.5%)
	BN	2.1 (3.4%)	0 (0%)
	D	2.3 (3.9%)	0.2 (0.3%)
	C	2.2 (3.6%)	0.1 (0.2%)
	AVG	1.8 (3%)	-0.2 (-0.3%)
JUL	W	1.2 (2%)	-0.1 (-0.1%)
	AN	1.5 (2.5%)	-0.1 (-0.2%)
	BN	1.6 (2.7%)	-0.4 (-0.7%)
	D	2.2 (3.6%)	-0.3 (-0.4%)
	C	4.8 (7.7%)	0 (0.1%)
	AVG	2.1 (3.4%)	-0.2 (-0.3%)

Alternative 7: Sacramento River at Hamilton City			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
AUG	W	3.4 (5.4%)	0.1 (0.2%)
	AN	2.6 (4.2%)	0.5 (0.8%)
	BN	3 (4.9%)	0 (0.1%)
	D	3.6 (5.7%)	0.4 (0.6%)
	C	6.9 (10.7%)	0.3 (0.4%)
	AVG	3.8 (6%)	0.2 (0.4%)
SEP	W	1.2 (1.9%)	0.1 (0.1%)
	AN	1.3 (2.1%)	0.5 (0.8%)
	BN	4.4 (7.2%)	1.2 (1.9%)
	D	5 (8.1%)	-0.1 (-0.1%)
	C	5.2 (8%)	0.2 (0.3%)
	AVG	3.2 (5.1%)	0.3 (0.5%)
OCT	W	2.7 (4.9%)	0 (0%)
	AN	2.6 (4.7%)	0 (0%)
	BN	3.1 (5.6%)	0.3 (0.4%)
	D	2.9 (5.1%)	-0.1 (-0.1%)
	C	3.3 (5.8%)	0.1 (0.1%)
	AVG	2.9 (5.2%)	0 (0.1%)
NOV	W	2.3 (4.7%)	-0.1 (-0.1%)
	AN	2.4 (4.7%)	0 (-0.1%)
	BN	2.6 (5.1%)	-0.1 (-0.1%)
	D	2.5 (4.8%)	0 (0.1%)
	C	2.5 (4.9%)	-0.1 (-0.1%)
	AVG	2.4 (4.8%)	0 (-0.1%)
DEC	W	1.4 (3.1%)	0 (0%)
	AN	1.9 (4.1%)	-0.2 (-0.3%)
	BN	2 (4.5%)	-0.1 (-0.2%)
	D	2 (4.4%)	-0.1 (-0.3%)
	C	2.2 (4.8%)	-0.1 (-0.1%)
	AVG	1.8 (4%)	-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.

1 **11D.7.6 Trinity River below Lewiston Reservoir**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
3 **Trinity River below Lewiston Reservoir, Year-Round**

Alternative 7: Trinity River below Lewiston Reservoir				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL7
JAN	W	41	43	43
	AN	38	41	41
	BN	39	41	41
	D	39	41	41
	C	39	42	42
	AVG	39	42	42
FEB	W	43	45	45
	AN	43	45	45
	BN	42	44	44
	D	42	45	45
	C	43	45	45
	AVG	43	45	45
MAR	W	46	48	48
	AN	47	49	49
	BN	47	48	49
	D	48	50	50
	C	48	50	50
	AVG	47	49	49
APR	W	49	51	50
	AN	50	52	52
	BN	51	53	53
	D	51	53	53
	C	50	52	52
	AVG	50	52	52
MAY	W	46	48	48
	AN	46	48	48
	BN	46	49	49
	D	47	49	49
	C	49	52	52
	AVG	47	49	49
JUN	W	48	51	51
	AN	51	52	52
	BN	52	53	53
	D	52	54	55
	C	56	59	59
	AVG	51	53	53
JUL	W	51	55	54
	AN	52	54	53
	BN	52	55	55
	D	51	54	54
	C	53	60	60
	AVG	51	55	55

Alternative 7: Trinity River below Lewiston Reservoir				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
AUG	W	52	54	54
	AN	51	53	53
	BN	52	55	55
	D	50	54	54
	C	54	63	65
	AVG	52	56	56
SEP	W	49	51	51
	AN	50	51	52
	BN	51	55	55
	D	50	56	56
	C	57	62	63
	AVG	51	54	54
OCT	W	48	51	51
	AN	49	52	52
	BN	50	53	53
	D	50	52	52
	C	51	56	55
	AVG	49	52	52
NOV	W	44	47	47
	AN	45	47	47
	BN	45	47	47
	D	44	47	47
	C	46	48	48
	AVG	45	47	47
DEC	W	41	43	43
	AN	39	43	43
	BN	40	42	42
	D	40	42	42
	C	39	41	41
	AVG	40	42	42

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River below Lewiston Reservoir, Year-Round**

Alternative 7: Trinity River below Lewiston Reservoir			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	2 (5%)	0 (0%)
	AN	2.4 (6.3%)	0 (0%)
	BN	2 (5.1%)	-0.1 (-0.2%)
	D	2.5 (6.4%)	-0.2 (-0.6%)
	C	2.2 (5.6%)	-0.1 (-0.3%)
	AVG	2.2 (5.6%)	-0.1 (-0.2%)
FEB	W	2.4 (5.5%)	0 (-0.1%)
	AN	2.2 (5.2%)	0 (-0.1%)
	BN	2.2 (5.1%)	0 (0%)
	D	2.3 (5.4%)	0 (0%)
	C	2.2 (5%)	0 (-0.1%)
	AVG	2.3 (5.3%)	0 (0%)
MAR	W	1.8 (4%)	-0.2 (-0.3%)
	AN	1.6 (3.5%)	-0.1 (-0.1%)
	BN	2 (4.3%)	0.2 (0.4%)
	D	1.5 (3.1%)	0 (0%)
	C	1.9 (4%)	-0.2 (-0.4%)
	AVG	1.8 (3.8%)	-0.1 (-0.1%)
APR	W	1.3 (2.7%)	-0.2 (-0.4%)
	AN	2.2 (4.4%)	0.2 (0.4%)
	BN	2.7 (5.2%)	0.1 (0.3%)
	D	2.3 (4.4%)	0 (0%)
	C	2.3 (4.6%)	0.2 (0.3%)
	AVG	2 (4%)	0 (0%)
MAY	W	2.4 (5.3%)	0 (0%)
	AN	2.3 (5%)	0 (0%)
	BN	2.2 (4.7%)	0 (0%)
	D	2.6 (5.5%)	0 (0%)
	C	3.1 (6.4%)	0 (0%)
	AVG	2.5 (5.4%)	0 (0%)
JUN	W	2.3 (4.8%)	0.1 (0.1%)
	AN	1.1 (2.2%)	0 (0%)
	BN	1.8 (3.5%)	0 (-0.1%)
	D	2.6 (4.9%)	0.3 (0.5%)
	C	3.3 (5.9%)	-0.4 (-0.8%)
	AVG	2.3 (4.4%)	0 (0%)
JUL	W	3.3 (6.5%)	-0.5 (-0.9%)
	AN	1.7 (3.2%)	-0.3 (-0.6%)
	BN	3.1 (6%)	-0.1 (-0.2%)
	D	2.9 (5.8%)	0.3 (0.5%)
	C	7.5 (14.2%)	0.6 (1%)
	AVG	3.6 (7%)	-0.1 (-0.1%)

Alternative 7: Trinity River below Lewiston Reservoir			
Month	WYT	EXISTING CONDITIONS vs. A7_LLT	NAA vs. A7_LLT
AUG	W	1.7 (3.3%)	-0.4 (-0.7%)
	AN	1.8 (3.5%)	-0.5 (-0.9%)
	BN	2.8 (5.3%)	-0.2 (-0.3%)
	D	4.3 (8.7%)	0.3 (0.5%)
	C	10.8 (20%)	1.3 (2.1%)
	AVG	3.8 (7.4%)	0.1 (0.1%)
SEP	W	1.8 (3.6%)	-0.2 (-0.3%)
	AN	2.1 (4.2%)	0.4 (0.7%)
	BN	3.4 (6.7%)	-0.1 (-0.1%)
	D	5.9 (11.7%)	0 (0%)
	C	6 (10.7%)	0.4 (0.6%)
	AVG	3.6 (7.2%)	0 (0.1%)
OCT	W	2.8 (5.9%)	-0.4 (-0.8%)
	AN	2.2 (4.5%)	-0.2 (-0.3%)
	BN	2.7 (5.4%)	-0.2 (-0.3%)
	D	2.9 (5.8%)	0.6 (1.2%)
	C	3.9 (7.7%)	-0.5 (-0.9%)
	AVG	2.9 (5.9%)	-0.1 (-0.2%)
NOV	W	2.5 (5.7%)	-0.1 (-0.2%)
	AN	2.8 (6.2%)	0.5 (1.1%)
	BN	2.6 (5.9%)	0.1 (0.2%)
	D	2.5 (5.7%)	-0.2 (-0.4%)
	C	1.9 (4.2%)	-0.1 (-0.3%)
	AVG	2.5 (5.6%)	0 (0%)
DEC	W	1.9 (4.6%)	-0.2 (-0.4%)
	AN	3.4 (8.7%)	-0.2 (-0.5%)
	BN	2.4 (6%)	-0.1 (-0.3%)
	D	1.9 (4.6%)	0 (0.1%)
	C	2.2 (5.6%)	0.4 (1.1%)
	AVG	2.2 (5.5%)	0 (-0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.7.7 Trinity River at Douglas City**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
3 **Trinity River at Douglas City, Year-Round**

Alternative 7: Trinity River at Douglas City				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	40	42	42
	AN	39	40	40
	BN	38	40	40
	D	38	40	40
	C	39	41	41
	AVG	39	41	41
FEB	W	43	45	45
	AN	43	45	45
	BN	42	44	44
	D	43	44	44
	C	43	45	45
	AVG	43	45	45
MAR	W	46	47	47
	AN	47	48	48
	BN	47	48	48
	D	48	49	49
	C	48	49	49
	AVG	47	48	48
APR	W	51	52	52
	AN	52	53	53
	BN	52	54	54
	D	53	54	54
	C	52	54	54
	AVG	52	53	53
MAY	W	48	50	50
	AN	48	50	50
	BN	49	51	51
	D	49	51	51
	C	52	55	55
	AVG	49	51	51
JUN	W	51	54	54
	AN	54	55	55
	BN	55	57	57
	D	57	59	60
	C	60	63	63
	AVG	55	57	57
JUL	W	57	61	60
	AN	58	60	60
	BN	59	62	62
	D	59	62	62
	C	62	67	67
	AVG	59	62	62

Alternative 7: Trinity River at Douglas City				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
AUG	W	60	62	62
	AN	59	61	61
	BN	60	63	63
	D	58	62	62
	C	61	67	68
	AVG	60	63	63
SEP	W	55	57	57
	AN	55	57	57
	BN	56	59	59
	D	55	60	60
	C	59	64	64
	AVG	56	59	59
OCT	W	50	53	53
	AN	51	53	53
	BN	52	54	54
	D	51	53	53
	C	53	56	55
	AVG	51	54	54
NOV	W	44	46	46
	AN	45	47	47
	BN	45	47	47
	D	44	46	46
	C	46	47	47
	AVG	44	47	47
DEC	W	41	43	43
	AN	40	42	42
	BN	39	42	41
	D	40	42	42
	C	39	41	41
	AVG	40	42	42

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River at Douglas City, Year-Round**

Alternative 7: Trinity River at Douglas City			
Month	WYT	EXISTING CONDITIONS	
		vs. A7_LL1	NAA vs. A7_LL1
JAN	W	1.5 (3.8%)	0 (-0.1%)
	AN	1.6 (4.1%)	0 (0%)
	BN	1.4 (3.7%)	0 (-0.1%)
	D	2 (5.4%)	-0.1 (-0.3%)
	C	2 (5.2%)	0 (-0.1%)
	AVG	1.7 (4.4%)	-0.1 (-0.1%)
FEB	W	1.6 (3.6%)	0 (0%)
	AN	1.5 (3.5%)	0 (0%)
	BN	1.6 (3.8%)	0 (0%)
	D	1.6 (3.7%)	0 (0%)
	C	1.8 (4.2%)	0 (0%)
	AVG	1.6 (3.7%)	0 (0%)
MAR	W	1.2 (2.6%)	0 (0%)
	AN	1 (2.1%)	0 (0%)
	BN	1.2 (2.6%)	0 (0.1%)
	D	1 (2.2%)	0 (0%)
	C	1.4 (3%)	-0.1 (-0.2%)
	AVG	1.2 (2.5%)	0 (0%)
APR	W	1.2 (2.3%)	-0.1 (-0.1%)
	AN	1.5 (3%)	0.2 (0.3%)
	BN	1.7 (3.3%)	0.1 (0.1%)
	D	1.7 (3.3%)	0 (0%)
	C	1.9 (3.7%)	0.1 (0.2%)
	AVG	1.5 (3%)	0 (0%)
MAY	W	2.3 (4.9%)	0 (0.1%)
	AN	2.2 (4.7%)	0 (0%)
	BN	2.1 (4.3%)	0 (0%)
	D	2.5 (5.1%)	0 (0%)
	C	3 (5.8%)	0 (0%)
	AVG	2.4 (5%)	0 (0%)
JUN	W	2.2 (4.3%)	0 (0.1%)
	AN	1 (1.8%)	0 (0%)
	BN	1.8 (3.3%)	0 (0%)
	D	2.6 (4.5%)	0.2 (0.3%)
	C	2.9 (4.8%)	-0.3 (-0.4%)
	AVG	2.1 (3.9%)	0 (0%)
JUL	W	3.4 (6%)	-0.3 (-0.5%)
	AN	2 (3.4%)	-0.2 (-0.4%)
	BN	2.6 (4.4%)	-0.1 (-0.1%)
	D	2.9 (5%)	0.2 (0.4%)
	C	5.2 (8.4%)	0.6 (0.9%)
	AVG	3.2 (5.5%)	0 (0%)

Alternative 7: Trinity River at Douglas City			
Month	WYT	EXISTING CONDITIONS	
		vs. A7_LLT	NAA vs. A7_LLT
AUG	W	2.3 (3.9%)	-0.2 (-0.3%)
	AN	2.4 (4.1%)	-0.2 (-0.4%)
	BN	2.9 (4.9%)	-0.1 (-0.1%)
	D	3.9 (6.6%)	0.2 (0.3%)
	C	7.6 (12.5%)	1.4 (2%)
	AVG	3.6 (6%)	0.1 (0.2%)
SEP	W	2.3 (4.3%)	-0.1 (-0.2%)
	AN	2.5 (4.6%)	0.2 (0.4%)
	BN	3.3 (5.9%)	0 (-0.1%)
	D	4.7 (8.6%)	0 (0%)
	C	5.6 (9.4%)	0.3 (0.4%)
	AVG	3.5 (6.4%)	0 (0.1%)
OCT	W	2.3 (4.6%)	-0.2 (-0.4%)
	AN	1.8 (3.6%)	-0.1 (-0.1%)
	BN	2.3 (4.4%)	-0.1 (-0.2%)
	D	2.3 (4.6%)	0.4 (0.7%)
	C	2.8 (5.3%)	-0.3 (-0.6%)
	AVG	2.3 (4.5%)	-0.1 (-0.1%)
NOV	W	2 (4.6%)	-0.1 (-0.1%)
	AN	2.1 (4.8%)	0.2 (0.3%)
	BN	2.2 (5%)	0 (0%)
	D	2.1 (4.8%)	-0.1 (-0.2%)
	C	1.8 (3.9%)	-0.1 (-0.1%)
	AVG	2.1 (4.6%)	0 (-0.1%)
DEC	W	1.4 (3.4%)	0 (0%)
	AN	2.3 (5.7%)	-0.1 (-0.3%)
	BN	2 (5.2%)	-0.1 (-0.2%)
	D	1.8 (4.4%)	0 (0%)
	C	2.4 (6.2%)	0.2 (0.4%)
	AVG	1.9 (4.6%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.7.8 Trinity River below North Fork**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
3 **Trinity River below North Fork, Year-Round**

Alternative 7: Trinity River below North Fork				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	40	41	41
	AN	38	39	39
	BN	38	39	39
	D	38	39	39
	C	38	40	40
	AVG	39	40	40
FEB	W	43	44	44
	AN	43	44	44
	BN	43	44	44
	D	43	44	44
	C	43	45	45
	AVG	43	44	44
MAR	W	46	47	47
	AN	46	47	47
	BN	46	47	47
	D	47	48	48
	C	48	49	49
	AVG	47	47	47
APR	W	53	53	53
	AN	54	54	55
	BN	54	55	55
	D	54	55	55
	C	54	55	55
	AVG	53	54	54
MAY	W	50	52	52
	AN	50	52	52
	BN	51	53	53
	D	51	54	54
	C	54	57	57
	AVG	51	53	53
JUN	W	55	57	57
	AN	58	58	58
	BN	60	61	61
	D	62	64	64
	C	63	66	66
	AVG	59	61	61
JUL	W	63	66	66
	AN	63	66	65
	BN	65	67	67
	D	65	68	68
	C	68	71	71
	AVG	65	67	67

Alternative 7: Trinity River below North Fork				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
AUG	W	65	68	67
	AN	64	67	67
	BN	65	68	68
	D	64	67	67
	C	65	69	70
	AVG	65	68	68
SEP	W	59	62	62
	AN	59	61	61
	BN	59	62	62
	D	58	62	62
	C	61	64	64
	AVG	59	62	62
OCT	W	53	55	55
	AN	53	55	55
	BN	54	56	56
	D	53	54	55
	C	54	56	56
	AVG	53	55	55
NOV	W	44	45	45
	AN	44	46	46
	BN	44	46	46
	D	44	45	45
	C	45	47	47
	AVG	44	46	46
DEC	W	41	42	42
	AN	40	42	41
	BN	39	41	41
	D	40	41	41
	C	38	40	40
	AVG	40	41	41

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River below North Fork, Year-Round**

Alternative 7: Trinity River below North Fork			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	1.1 (2.8%)	0 (-0.1%)
	AN	1 (2.7%)	0 (0%)
	BN	1 (2.7%)	0 (-0.1%)
	D	1.5 (4.1%)	-0.1 (-0.2%)
	C	1.7 (4.4%)	0 (0%)
	AVG	1.3 (3.3%)	0 (-0.1%)
FEB	W	1.1 (2.5%)	0 (0%)
	AN	1 (2.4%)	0 (0%)
	BN	1.1 (2.7%)	0 (0%)
	D	1.1 (2.5%)	0 (0%)
	C	1.4 (3.3%)	0 (0%)
	AVG	1.1 (2.6%)	0 (0%)
MAR	W	0.8 (1.6%)	0 (0%)
	AN	0.6 (1.3%)	0 (0%)
	BN	0.8 (1.6%)	0 (0%)
	D	0.7 (1.5%)	0 (0%)
	C	1 (2.2%)	0 (0%)
	AVG	0.8 (1.7%)	0 (0%)
APR	W	0.8 (1.5%)	0 (-0.1%)
	AN	1 (1.9%)	0.1 (0.2%)
	BN	1.1 (2%)	0 (0.1%)
	D	1.2 (2.2%)	0 (0%)
	C	1.4 (2.7%)	0 (0%)
	AVG	1.1 (2%)	0 (0%)
MAY	W	2.1 (4.2%)	0 (0%)
	AN	2.1 (4.1%)	0 (0%)
	BN	1.9 (3.8%)	0 (0%)
	D	2.3 (4.4%)	0 (0%)
	C	2.7 (4.9%)	0 (0%)
	AVG	2.2 (4.3%)	0 (0%)
JUN	W	1.9 (3.4%)	0 (0.1%)
	AN	0.8 (1.3%)	0 (0%)
	BN	1.7 (2.9%)	0 (0%)
	D	2.3 (3.8%)	0.1 (0.2%)
	C	2.4 (3.8%)	-0.2 (-0.2%)
	AVG	1.9 (3.2%)	0 (0%)
JUL	W	3.2 (5.1%)	-0.2 (-0.3%)
	AN	2.1 (3.2%)	-0.1 (-0.2%)
	BN	2.2 (3.4%)	0 (0%)
	D	2.7 (4.1%)	0.2 (0.2%)
	C	3.6 (5.3%)	0.3 (0.4%)
	AVG	2.8 (4.4%)	0 (0%)

Alternative 7: Trinity River below North Fork			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
AUG	W	2.4 (3.7%)	-0.1 (-0.1%)
	AN	2.5 (4%)	-0.1 (-0.1%)
	BN	2.8 (4.3%)	0 (-0.1%)
	D	3.3 (5.2%)	0.1 (0.1%)
	C	4.7 (7.2%)	0.8 (1.2%)
	AVG	3 (4.7%)	0.1 (0.1%)
SEP	W	2.5 (4.3%)	0 (-0.1%)
	AN	2.6 (4.4%)	0.1 (0.1%)
	BN	3 (5.1%)	0 (0%)
	D	3.7 (6.4%)	0 (0%)
	C	3.2 (5.3%)	0.2 (0.4%)
	AVG	3 (5.1%)	0 (0.1%)
OCT	W	1.9 (3.5%)	-0.1 (-0.2%)
	AN	1.7 (3.3%)	-0.1 (-0.2%)
	BN	1.9 (3.6%)	0 (-0.1%)
	D	2 (3.7%)	0.2 (0.3%)
	C	2.6 (4.8%)	0 (-0.1%)
	AVG	2 (3.7%)	0 (0%)
NOV	W	1.6 (3.6%)	0 (-0.1%)
	AN	1.5 (3.5%)	0 (0%)
	BN	1.9 (4.2%)	0 (0%)
	D	1.6 (3.8%)	-0.1 (-0.1%)
	C	1.6 (3.6%)	0 (-0.1%)
	AVG	1.6 (3.7%)	0 (-0.1%)
DEC	W	1 (2.4%)	0.1 (0.1%)
	AN	1.5 (3.6%)	-0.1 (-0.2%)
	BN	1.6 (4.2%)	0 (-0.1%)
	D	1.5 (3.7%)	0 (0%)
	C	2 (5.1%)	0.1 (0.2%)
	AVG	1.4 (3.5%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.7.9 Feather River at Fish Barrier Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
3 **Feather River at Fish Barrier Dam, Year-Round**

Alternative 7: Feather River at Fish Barrier Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL7
JAN	W	48	51	51
	AN	47	50	51
	BN	48	51	51
	D	47	51	51
	C	48	51	51
	AVG	48	51	51
FEB	W	48	51	51
	AN	48	51	51
	BN	48	51	52
	D	49	52	52
	C	49	53	53
	AVG	48	51	52
MAR	W	49	51	51
	AN	49	51	51
	BN	50	53	53
	D	51	53	54
	C	51	54	55
	AVG	50	52	53
APR	W	51	52	52
	AN	51	53	53
	BN	52	54	54
	D	52	54	54
	C	52	54	54
	AVG	51	53	53
MAY	W	55	56	55
	AN	56	56	56
	BN	56	56	56
	D	56	56	56
	C	56	57	56
	AVG	55	56	56
JUN	W	57	58	58
	AN	58	58	58
	BN	58	58	58
	D	58	58	59
	C	58	59	58
	AVG	58	58	58
JUL	W	61	61	61
	AN	61	61	61
	BN	61	61	61
	D	61	61	62
	C	61	62	63
	AVG	61	61	62

Alternative 7: Feather River at Fish Barrier Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
AUG	W	61	61	61
	AN	60	60	60
	BN	60	60	61
	D	60	62	61
	C	62	64	63
	AVG	61	61	61
SEP	W	56	55	56
	AN	56	55	56
	BN	56	57	57
	D	56	61	58
	C	58	63	62
	AVG	56	58	57
OCT	W	54	58	56
	AN	55	58	58
	BN	54	58	57
	D	54	59	58
	C	54	58	57
	AVG	54	58	57
NOV	W	52	58	56
	AN	53	58	57
	BN	53	58	56
	D	52	59	57
	C	53	58	57
	AVG	53	58	57
DEC	W	49	53	53
	AN	49	55	54
	BN	49	54	54
	D	49	54	54
	C	49	54	53
	AVG	49	54	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Fish Barrier Dam, Year-Round**

Alternative 7: Feather River at Fish Barrier Dam			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	3.1 (6.4%)	0.3 (0.6%)
	AN	3.2 (6.8%)	0.2 (0.3%)
	BN	3.2 (6.7%)	0.2 (0.3%)
	D	3.6 (7.6%)	0.2 (0.4%)
	C	3.7 (7.9%)	-0.1 (-0.2%)
	AVG	3.3 (7%)	0.2 (0.4%)
FEB	W	2.8 (5.9%)	0.2 (0.4%)
	AN	2.7 (5.7%)	0.2 (0.4%)
	BN	3.3 (6.8%)	0.3 (0.6%)
	D	3.3 (6.7%)	0.3 (0.7%)
	C	3.5 (7.1%)	0 (0.1%)
	AVG	3.1 (6.4%)	0.2 (0.4%)
MAR	W	2.8 (5.7%)	0.3 (0.5%)
	AN	2.4 (4.8%)	0.1 (0.2%)
	BN	3.3 (6.5%)	0 (0%)
	D	2.7 (5.3%)	0.4 (0.7%)
	C	3.4 (6.7%)	0.3 (0.5%)
	AVG	2.9 (5.8%)	0.2 (0.4%)
APR	W	2 (3.9%)	0.2 (0.3%)
	AN	1.9 (3.6%)	0.1 (0.3%)
	BN	2 (3.8%)	0.3 (0.5%)
	D	2.1 (4%)	0.2 (0.3%)
	C	2.7 (5.2%)	0.1 (0.3%)
	AVG	2.1 (4.1%)	0.2 (0.3%)
MAY	W	0.6 (1.2%)	-0.1 (-0.1%)
	AN	0.5 (0.8%)	0 (-0.1%)
	BN	0.5 (0.9%)	0.2 (0.3%)
	D	0.6 (1.1%)	0.4 (0.7%)
	C	0.6 (1.1%)	-0.2 (-0.4%)
	AVG	0.6 (1.1%)	0.1 (0.1%)
JUN	W	0.4 (0.7%)	0 (0%)
	AN	0.2 (0.4%)	-0.1 (-0.2%)
	BN	0.4 (0.6%)	0.1 (0.2%)
	D	0.8 (1.3%)	0.3 (0.4%)
	C	0.5 (0.8%)	-0.7 (-1.2%)
	AVG	0.5 (0.8%)	-0.1 (-0.1%)
JUL	W	0.1 (0.2%)	0 (0.1%)
	AN	0.3 (0.6%)	0 (0.1%)
	BN	0.5 (0.8%)	0.1 (0.1%)
	D	1 (1.7%)	0.5 (0.8%)
	C	1.9 (3.1%)	0.4 (0.7%)
	AVG	0.7 (1.1%)	0.2 (0.3%)

Alternative 7: Feather River at Fish Barrier Dam			
Month	WYT	EXISTING CONDITIONS	
		vs. A7_LLT	NAA vs. A7_LLT
AUG	W	0.1 (0.1%)	0.3 (0.6%)
	AN	0.5 (0.8%)	0.3 (0.5%)
	BN	0.6 (0.9%)	0 (0%)
	D	1.4 (2.4%)	-0.4 (-0.7%)
	C	0.8 (1.3%)	-1.6 (-2.5%)
	AVG	0.6 (1%)	-0.2 (-0.3%)
SEP	W	-0.4 (-0.7%)	0.2 (0.4%)
	AN	0.2 (0.3%)	0.7 (1.2%)
	BN	1 (1.8%)	-0.5 (-0.9%)
	D	2 (3.6%)	-2.9 (-4.8%)
	C	4.3 (7.5%)	-1.1 (-1.7%)
	AVG	1.2 (2.1%)	-0.7 (-1.2%)
OCT	W	2.4 (4.5%)	-2.2 (-3.7%)
	AN	2.8 (5.1%)	-0.6 (-1%)
	BN	2.5 (4.7%)	-1.7 (-3%)
	D	4.5 (8.4%)	-1.2 (-2%)
	C	2.8 (5.1%)	-1 (-1.8%)
	AVG	3 (5.6%)	-1.5 (-2.5%)
NOV	W	3.9 (7.5%)	-2 (-3.4%)
	AN	3.8 (7.1%)	-1.1 (-2%)
	BN	3.6 (6.7%)	-1.9 (-3.2%)
	D	5 (9.5%)	-1.3 (-2.2%)
	C	4.2 (7.9%)	-1 (-1.8%)
	AVG	4.1 (7.8%)	-1.6 (-2.7%)
DEC	W	4.3 (8.8%)	-0.2 (-0.3%)
	AN	4.6 (9.3%)	-1.1 (-1.9%)
	BN	5.1 (10.4%)	-0.5 (-0.9%)
	D	4.7 (9.5%)	-0.4 (-0.8%)
	C	4.3 (8.8%)	-0.4 (-0.8%)
	AVG	4.5 (9.3%)	-0.4 (-0.8%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.7.10 Feather River Low-Flow Channel (above Thermalito**
2 **Afterbay)**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
4 **Feather River Low-Flow Channel (above Thermalito Afterbay), Year-Round**

Alternative 7: Feather River Low-Flow Channel (above Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LLТ
JAN	W	47	50	51
	AN	47	50	50
	BN	47	50	50
	D	47	50	50
	C	47	51	51
	AVG	47	50	50
FEB	W	49	51	52
	AN	49	51	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	50	53	53
	AN	51	53	53
	BN	51	54	54
	D	52	55	55
	C	53	56	56
	AVG	51	54	54
APR	W	53	55	55
	AN	55	57	57
	BN	55	57	57
	D	55	57	58
	C	55	57	58
	AVG	55	57	57
MAY	W	59	61	61
	AN	60	62	62
	BN	60	61	61
	D	60	61	61
	C	60	62	61
	AVG	60	61	61
JUN	W	63	65	65
	AN	64	66	66
	BN	64	65	66
	D	64	66	66
	C	63	65	65
	AVG	64	65	65

Alternative 7: Feather River Low-Flow Channel (above Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LLT
JUL	W	68	69	69
	AN	67	69	69
	BN	67	69	69
	D	67	69	69
	C	67	70	70
	AVG	67	69	69
AUG	W	66	68	68
	AN	65	67	67
	BN	66	68	68
	D	65	68	68
	C	67	70	69
	AVG	66	68	68
SEP	W	60	61	61
	AN	60	61	61
	BN	60	62	62
	D	60	65	63
	C	61	66	66
	AVG	60	63	62
OCT	W	55	60	58
	AN	57	60	60
	BN	56	60	59
	D	56	61	60
	C	56	60	59
	AVG	56	60	59
NOV	W	52	58	56
	AN	53	58	57
	BN	53	58	56
	D	53	58	57
	C	53	58	57
	AVG	53	58	57
DEC	W	48	53	52
	AN	49	54	53
	BN	48	53	53
	D	48	53	53
	C	48	53	52
	AVG	48	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather Low-Flow Channel (above Thermalito Afterbay), Year-Round**

Alternative 7: Feather River Low-Flow Channel (above Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A7_LLT	NAA vs. A7_LLT
JAN	W	3.1 (6.4%)	0.3 (0.5%)
	AN	3.2 (6.9%)	0.1 (0.3%)
	BN	3.1 (6.6%)	0.1 (0.3%)
	D	3.4 (7.4%)	0.2 (0.4%)
	C	3.6 (7.6%)	-0.1 (-0.1%)
	AVG	3.2 (6.9%)	0.2 (0.3%)
FEB	W	2.8 (5.8%)	0.2 (0.3%)
	AN	2.8 (5.7%)	0.2 (0.3%)
	BN	3.2 (6.5%)	0.2 (0.4%)
	D	3.1 (6.4%)	0.3 (0.5%)
	C	3.4 (6.8%)	0 (0.1%)
	AVG	3 (6.2%)	0.2 (0.3%)
MAR	W	2.7 (5.3%)	0.2 (0.4%)
	AN	2.4 (4.7%)	0.1 (0.2%)
	BN	3 (5.9%)	0 (0%)
	D	2.7 (5.1%)	0.3 (0.5%)
	C	3.2 (6.1%)	0.2 (0.4%)
	AVG	2.8 (5.4%)	0.2 (0.3%)
APR	W	2 (3.7%)	0.1 (0.2%)
	AN	2.1 (3.8%)	0.1 (0.2%)
	BN	2.1 (3.8%)	0.2 (0.4%)
	D	2.3 (4.1%)	0.1 (0.2%)
	C	2.7 (4.8%)	0.1 (0.2%)
	AVG	2.2 (4%)	0.1 (0.2%)
MAY	W	1.4 (2.3%)	0 (-0.1%)
	AN	1.3 (2.2%)	0 (0%)
	BN	1.3 (2.2%)	0.2 (0.3%)
	D	1.4 (2.3%)	0.2 (0.4%)
	C	1.4 (2.3%)	-0.2 (-0.3%)
	AVG	1.4 (2.3%)	0 (0.1%)
JUN	W	1.6 (2.5%)	0 (0%)
	AN	1.7 (2.6%)	-0.1 (-0.1%)
	BN	1.7 (2.6%)	0.1 (0.1%)
	D	2 (3.2%)	0.2 (0.3%)
	C	1.7 (2.7%)	-0.5 (-0.7%)
	AVG	1.7 (2.7%)	0 (0%)
JUL	W	1.6 (2.4%)	0 (0%)
	AN	1.8 (2.7%)	0.1 (0.1%)
	BN	1.8 (2.7%)	0 (0.1%)
	D	2.2 (3.3%)	0.3 (0.4%)
	C	2.9 (4.3%)	0.3 (0.4%)
	AVG	2 (3%)	0.1 (0.2%)

Alternative 7: Feather River Low-Flow Channel (above Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
AUG	W	1.7 (2.5%)	0.2 (0.3%)
	AN	1.9 (2.9%)	0.2 (0.3%)
	BN	2 (3%)	0 (0%)
	D	2.6 (3.9%)	-0.3 (-0.4%)
	C	2.1 (3.2%)	-1.1 (-1.5%)
	AVG	2 (3.1%)	-0.1 (-0.2%)
SEP	W	1 (1.6%)	0.2 (0.2%)
	AN	1.3 (2.2%)	0.5 (0.8%)
	BN	1.9 (3.2%)	-0.4 (-0.6%)
	D	2.7 (4.6%)	-2.1 (-3.2%)
	C	4.3 (7%)	-0.8 (-1.2%)
	AVG	2.1 (3.4%)	-0.5 (-0.8%)
OCT	W	2.6 (4.7%)	-1.7 (-2.8%)
	AN	2.9 (5.2%)	-0.4 (-0.7%)
	BN	2.8 (5%)	-1.3 (-2.2%)
	D	4.3 (7.7%)	-0.9 (-1.5%)
	C	2.9 (5.3%)	-0.8 (-1.3%)
	AVG	3.1 (5.6%)	-1.2 (-1.9%)
NOV	W	3.8 (7.2%)	-1.6 (-2.8%)
	AN	3.7 (7%)	-0.9 (-1.6%)
	BN	3.5 (6.6%)	-1.6 (-2.7%)
	D	4.7 (8.9%)	-1.1 (-1.9%)
	C	4 (7.6%)	-0.8 (-1.5%)
	AVG	3.9 (7.5%)	-1.3 (-2.2%)
DEC	W	4.1 (8.5%)	-0.1 (-0.2%)
	AN	4.3 (8.8%)	-0.9 (-1.7%)
	BN	4.7 (9.7%)	-0.4 (-0.8%)
	D	4.4 (9.1%)	-0.3 (-0.6%)
	C	4 (8.4%)	-0.4 (-0.8%)
	AVG	4.3 (8.9%)	-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.

1 **11D.7.11 Feather River High-Flow Channel (below Thermalito**
2 **Afterbay)**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
4 **Feather River High-Flow Channel (below Thermalito Afterbay), Year-Round**

Alternative 7: Feather River High-Flow Channel (below Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	47	50	50
	AN	47	50	50
	BN	46	49	49
	D	46	49	49
	C	46	50	50
	AVG	47	49	50
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	53
	D	50	53	53
	C	51	54	54
	AVG	50	52	52
MAR	W	51	54	54
	AN	52	54	54
	BN	53	56	56
	D	54	57	57
	C	54	57	57
	AVG	53	55	55
APR	W	55	57	57
	AN	57	59	59
	BN	58	59	59
	D	57	60	60
	C	57	60	60
	AVG	57	59	59
MAY	W	61	63	63
	AN	63	64	64
	BN	63	65	65
	D	63	65	65
	C	63	66	66
	AVG	62	64	64
JUN	W	66	68	68
	AN	67	70	69
	BN	67	70	70
	D	68	71	71
	C	68	71	70
	AVG	67	70	69

Alternative 7: Feather River High-Flow Channel (below Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JUL	W	70	70	71
	AN	68	69	70
	BN	68	70	70
	D	68	70	72
	C	70	74	75
	AVG	69	71	72
AUG	W	70	70	71
	AN	67	69	70
	BN	68	70	70
	D	67	71	73
	C	70	74	73
	AVG	69	71	72
SEP	W	64	63	64
	AN	64	64	66
	BN	65	68	68
	D	64	67	66
	C	64	69	70
	AVG	64	66	66
OCT	W	58	62	62
	AN	60	63	63
	BN	59	63	62
	D	58	63	62
	C	59	63	63
	AVG	59	63	62
NOV	W	53	57	56
	AN	54	58	57
	BN	53	57	56
	D	53	57	57
	C	53	57	57
	AVG	53	57	57
DEC	W	48	51	51
	AN	48	52	51
	BN	47	51	51
	D	47	51	50
	C	47	50	50
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
 2 **Water Temperatures in the Feather High-Flow Channel (below Thermalito Afterbay), Year-Round**

Alternative 7: Feather River High-Flow Channel (below Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	2.9 (6.2%)	0.3 (0.5%)
	AN	3 (6.4%)	0.1 (0.1%)
	BN	2.8 (6%)	0.1 (0.1%)
	D	3 (6.6%)	0.2 (0.3%)
	C	3.3 (7%)	0 (0%)
	AVG	3 (6.4%)	0.1 (0.3%)
FEB	W	2.7 (5.5%)	0 (0.1%)
	AN	3 (6.2%)	0 (-0.1%)
	BN	3.1 (6.2%)	0.1 (0.2%)
	D	2.9 (5.9%)	0.2 (0.3%)
	C	3.2 (6.3%)	0.1 (0.2%)
	AVG	2.9 (5.9%)	0.1 (0.1%)
MAR	W	2.6 (5%)	0.3 (0.5%)
	AN	1.7 (3.2%)	0 (-0.1%)
	BN	3.1 (5.9%)	0.1 (0.2%)
	D	2.7 (5%)	0.2 (0.4%)
	C	3.1 (5.8%)	0.1 (0.2%)
	AVG	2.7 (5%)	0.2 (0.3%)
APR	W	2.1 (3.8%)	0.1 (0.1%)
	AN	2.3 (4.1%)	0.1 (0.1%)
	BN	1.9 (3.4%)	0.2 (0.3%)
	D	2.7 (4.7%)	0.3 (0.6%)
	C	2.6 (4.5%)	0.1 (0.1%)
	AVG	2.3 (4.1%)	0.2 (0.3%)
MAY	W	2.7 (4.4%)	-0.1 (-0.1%)
	AN	1.4 (2.2%)	-0.3 (-0.4%)
	BN	2 (3.2%)	-0.1 (-0.1%)
	D	2.4 (3.8%)	0.1 (0.1%)
	C	2.2 (3.6%)	0 (0%)
	AVG	2.2 (3.6%)	-0.1 (-0.1%)
JUN	W	2.3 (3.5%)	-0.4 (-0.6%)
	AN	1.5 (2.2%)	-1.1 (-1.5%)
	BN	2.1 (3.2%)	-0.2 (-0.3%)
	D	3.3 (4.8%)	0.4 (0.5%)
	C	2 (3%)	-1 (-1.4%)
	AVG	2.3 (3.5%)	-0.4 (-0.5%)
JUL	W	1.1 (1.5%)	0.6 (0.9%)
	AN	1.7 (2.5%)	0.3 (0.5%)
	BN	2.3 (3.3%)	0.3 (0.4%)
	D	4.3 (6.4%)	2.1 (3%)
	C	5.7 (8.2%)	1.5 (2%)
	AVG	2.8 (4.1%)	1 (1.4%)

Alternative 7: Feather River High-Flow Channel (below Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
AUG	W	1.4 (2.1%)	0.7 (1.1%)
	AN	2.8 (4.1%)	1 (1.4%)
	BN	2.2 (3.3%)	0 (0.1%)
	D	5.5 (8.2%)	1.6 (2.2%)
	C	3.6 (5.1%)	-0.5 (-0.7%)
	AVG	3 (4.3%)	0.7 (0.9%)
SEP	W	0.3 (0.4%)	1 (1.6%)
	AN	1.5 (2.3%)	1.9 (3%)
	BN	2.6 (4%)	-0.3 (-0.4%)
	D	1.6 (2.6%)	-0.9 (-1.3%)
	C	5.6 (8.6%)	0.7 (0.9%)
	AVG	1.9 (3%)	0.4 (0.7%)
OCT	W	3.2 (5.5%)	-0.7 (-1.2%)
	AN	3.2 (5.3%)	-0.2 (-0.4%)
	BN	3.1 (5.3%)	-0.5 (-0.8%)
	D	4 (6.8%)	-0.3 (-0.5%)
	C	3.9 (6.6%)	0.1 (0.1%)
	AVG	3.5 (5.9%)	-0.4 (-0.7%)
NOV	W	3.4 (6.5%)	-0.9 (-1.5%)
	AN	3.6 (6.6%)	-0.5 (-0.8%)
	BN	3.2 (6%)	-1 (-1.7%)
	D	3.9 (7.4%)	-0.8 (-1.3%)
	C	3.9 (7.3%)	-0.1 (-0.2%)
	AVG	3.6 (6.7%)	-0.7 (-1.2%)
DEC	W	3.5 (7.4%)	0.1 (0.1%)
	AN	3.7 (7.8%)	-0.8 (-1.5%)
	BN	3.7 (7.9%)	-0.5 (-1%)
	D	3.7 (7.8%)	-0.4 (-0.8%)
	C	3.4 (7.4%)	-0.4 (-0.8%)
	AVG	3.6 (7.6%)	-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.

1 **11D.7.12 Feather River at Gridley Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
3 **Feather River at Gridley Dam, Year-Round**

Alternative 7: Feather River at Gridley Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	47	50	50
	AN	47	49	50
	BN	46	49	49
	D	46	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	49	52	52
	BN	50	53	53
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	51	54	54
	AN	53	54	54
	BN	54	57	57
	D	55	57	57
	C	54	57	57
	AVG	53	56	56
APR	W	56	58	58
	AN	58	60	60
	BN	59	61	61
	D	59	61	61
	C	58	61	61
	AVG	58	60	60
MAY	W	61	64	64
	AN	64	66	66
	BN	64	66	66
	D	64	66	67
	C	64	67	67
	AVG	63	66	66
JUN	W	67	69	69
	AN	69	71	70
	BN	69	71	71
	D	69	72	73
	C	69	72	71
	AVG	68	71	70
JUL	W	70	71	72
	AN	69	70	71
	BN	69	71	71
	D	69	71	73
	C	71	75	76
	AVG	70	72	73

Alternative 7: Feather River at Gridley Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
AUG	W	71	71	72
	AN	68	70	71
	BN	69	71	71
	D	68	72	74
	C	71	75	74
	AVG	69	72	73
SEP	W	65	64	65
	AN	65	64	66
	BN	66	69	69
	D	65	68	68
	C	66	70	71
	AVG	65	67	67
OCT	W	59	63	62
	AN	60	63	63
	BN	60	63	63
	D	59	63	63
	C	59	63	63
	AVG	59	63	63
NOV	W	53	57	56
	AN	54	58	57
	BN	53	57	56
	D	53	57	57
	C	54	57	57
	AVG	53	57	57
DEC	W	48	51	51
	AN	47	52	51
	BN	47	51	50
	D	47	51	50
	C	46	50	50
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Gridley Dam, Year-Round**

Alternative 7: Feather River at Gridley Dam			
Month	WYT	EXISTING CONDITIONS	NAA vs. A7_LLT
		vs. A7_LLT	
JAN	W	2.9 (6.2%)	0.3 (0.5%)
	AN	3 (6.4%)	0 (0.1%)
	BN	2.8 (6%)	0.1 (0.1%)
	D	2.9 (6.5%)	0.1 (0.3%)
	C	3.2 (7%)	0 (-0.1%)
	AVG	3 (6.4%)	0.1 (0.3%)
FEB	W	2.7 (5.5%)	0 (0%)
	AN	3 (6.1%)	-0.1 (-0.1%)
	BN	3.1 (6.2%)	0.1 (0.2%)
	D	2.9 (5.8%)	0.1 (0.3%)
	C	3.2 (6.2%)	0.1 (0.2%)
	AVG	2.9 (5.9%)	0.1 (0.1%)
MAR	W	2.5 (4.9%)	0.2 (0.4%)
	AN	1.7 (3.2%)	0 (0%)
	BN	3.1 (5.7%)	0.1 (0.1%)
	D	2.7 (4.9%)	0.2 (0.3%)
	C	3 (5.5%)	0.1 (0.2%)
	AVG	2.6 (4.9%)	0.1 (0.2%)
APR	W	2.1 (3.8%)	0.1 (0.1%)
	AN	2.3 (4%)	0.1 (0.1%)
	BN	2 (3.4%)	0.2 (0.3%)
	D	2.6 (4.4%)	0.2 (0.4%)
	C	2.5 (4.3%)	0.1 (0.1%)
	AVG	2.3 (4%)	0.1 (0.2%)
MAY	W	2.9 (4.7%)	-0.1 (-0.1%)
	AN	1.6 (2.5%)	-0.2 (-0.4%)
	BN	2.1 (3.2%)	0 (0%)
	D	2.4 (3.7%)	0.2 (0.3%)
	C	2.2 (3.4%)	-0.1 (-0.2%)
	AVG	2.4 (3.7%)	0 (0%)
JUN	W	2.4 (3.6%)	-0.4 (-0.6%)
	AN	1.4 (2.1%)	-1 (-1.5%)
	BN	2.1 (3.1%)	-0.1 (-0.2%)
	D	3.4 (4.9%)	0.5 (0.7%)
	C	2 (2.8%)	-1.1 (-1.6%)
	AVG	2.4 (3.5%)	-0.3 (-0.5%)
JUL	W	1.1 (1.6%)	0.5 (0.7%)
	AN	1.9 (2.8%)	0.3 (0.5%)
	BN	2.4 (3.5%)	0.3 (0.4%)
	D	4.6 (6.7%)	2.2 (3%)
	C	5.9 (8.4%)	1.5 (2%)
	AVG	2.9 (4.2%)	1 (1.3%)

Alternative 7: Feather River at Gridley Dam			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
AUG	W	1.4 (2%)	0.8 (1.1%)
	AN	2.8 (4.2%)	1 (1.5%)
	BN	2.4 (3.4%)	0.1 (0.1%)
	D	5.8 (8.5%)	1.5 (2.1%)
	C	3.3 (4.6%)	-0.9 (-1.2%)
	AVG	3 (4.3%)	0.6 (0.8%)
SEP	W	-0.2 (-0.3%)	1.1 (1.7%)
	AN	1.2 (1.9%)	2 (3.1%)
	BN	2.9 (4.3%)	0 (0%)
	D	2.5 (3.8%)	-0.8 (-1.2%)
	C	5.1 (7.8%)	0.4 (0.6%)
	AVG	1.9 (2.9%)	0.5 (0.7%)
OCT	W	3.2 (5.5%)	-0.7 (-1.1%)
	AN	3.1 (5.1%)	-0.2 (-0.4%)
	BN	3.2 (5.3%)	-0.5 (-0.8%)
	D	3.8 (6.5%)	-0.3 (-0.5%)
	C	3.7 (6.3%)	0 (0%)
	AVG	3.4 (5.7%)	-0.4 (-0.7%)
NOV	W	3.4 (6.4%)	-0.8 (-1.4%)
	AN	3.5 (6.5%)	-0.4 (-0.7%)
	BN	3.2 (6%)	-0.8 (-1.5%)
	D	3.8 (7.2%)	-0.7 (-1.2%)
	C	3.8 (7.1%)	-0.2 (-0.3%)
	AVG	3.5 (6.6%)	-0.6 (-1.1%)
DEC	W	3.5 (7.3%)	0.1 (0.2%)
	AN	3.6 (7.6%)	-0.7 (-1.4%)
	BN	3.6 (7.7%)	-0.5 (-1%)
	D	3.6 (7.7%)	-0.4 (-0.8%)
	C	3.3 (7.2%)	-0.4 (-0.8%)
	AVG	3.5 (7.5%)	-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.

1 **11D.7.13 Feather River at Honcut Creek**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
3 **Feather River at Honcut Creek, Year-Round**

Alternative 7: Feather River at Honcut Creek				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	47	50	50
	AN	46	49	49
	BN	46	49	49
	D	45	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	49	53	52
	BN	50	53	53
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	52	54	54
	AN	53	55	55
	BN	54	57	57
	D	55	58	58
	C	55	58	58
	AVG	53	56	56
APR	W	56	58	58
	AN	59	61	61
	BN	60	62	62
	D	60	62	62
	C	59	62	62
	AVG	58	61	61
MAY	W	62	65	65
	AN	65	67	67
	BN	65	67	67
	D	65	67	67
	C	65	68	68
	AVG	64	67	67
JUN	W	67	70	70
	AN	69	72	71
	BN	69	72	72
	D	70	73	73
	C	69	73	71
	AVG	69	72	71
JUL	W	71	72	72
	AN	69	71	71
	BN	69	72	72
	D	69	72	74
	C	71	76	77
	AVG	70	72	73

Alternative 7: Feather River at Honcut Creek				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
AUG	W	72	72	73
	AN	69	71	72
	BN	69	72	72
	D	68	73	74
	C	72	76	75
	AVG	70	73	73
SEP	W	66	64	65
	AN	66	65	67
	BN	67	69	70
	D	66	70	69
	C	66	71	71
	AVG	66	68	68
OCT	W	59	63	62
	AN	60	64	63
	BN	60	64	63
	D	59	63	63
	C	60	64	63
	AVG	60	63	63
NOV	W	53	57	56
	AN	54	58	57
	BN	53	57	56
	D	53	57	56
	C	54	57	57
	AVG	53	57	57
DEC	W	47	51	51
	AN	47	52	51
	BN	46	51	50
	D	46	50	50
	C	46	50	49
	AVG	47	51	50

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Honcut Creek, Year-Round**

Alternative 7: Feather River at Honcut Creek			
Month	WYT	EXISTING CONDITIONS	NAA vs. A7_LLT
		vs. A7_LLT	
JAN	W	2.9 (6.2%)	0.2 (0.5%)
	AN	3 (6.4%)	0.1 (0.1%)
	BN	2.8 (6%)	0 (0.1%)
	D	2.9 (6.4%)	0.1 (0.2%)
	C	3.2 (6.9%)	-0.1 (-0.2%)
	AVG	2.9 (6.3%)	0.1 (0.2%)
FEB	W	2.7 (5.5%)	0 (0%)
	AN	3 (6%)	-0.1 (-0.2%)
	BN	3 (6.1%)	0.1 (0.1%)
	D	2.9 (5.8%)	0.1 (0.2%)
	C	3.1 (6.1%)	0.1 (0.1%)
	AVG	2.9 (5.8%)	0 (0.1%)
MAR	W	2.5 (4.9%)	0.3 (0.5%)
	AN	1.7 (3.2%)	-0.1 (-0.1%)
	BN	3 (5.6%)	0 (0%)
	D	2.6 (4.7%)	0.1 (0.2%)
	C	2.9 (5.3%)	0.1 (0.2%)
	AVG	2.6 (4.8%)	0.1 (0.2%)
APR	W	2.1 (3.8%)	0.1 (0.1%)
	AN	2.4 (4%)	0.1 (0.1%)
	BN	2.1 (3.5%)	0.1 (0.2%)
	D	2.5 (4.2%)	0.2 (0.3%)
	C	2.6 (4.3%)	0.1 (0.1%)
	AVG	2.3 (3.9%)	0.1 (0.2%)
MAY	W	3.1 (4.9%)	-0.1 (-0.2%)
	AN	1.8 (2.8%)	-0.3 (-0.4%)
	BN	2.1 (3.3%)	0.1 (0.2%)
	D	2.4 (3.7%)	0.4 (0.5%)
	C	2.2 (3.4%)	-0.1 (-0.2%)
	AVG	2.5 (3.8%)	0 (0%)
JUN	W	2.5 (3.7%)	-0.4 (-0.5%)
	AN	1.5 (2.2%)	-0.9 (-1.3%)
	BN	2.2 (3.2%)	-0.1 (-0.1%)
	D	3.5 (5%)	0.5 (0.7%)
	C	1.9 (2.7%)	-1.3 (-1.7%)
	AVG	2.4 (3.6%)	-0.3 (-0.5%)
JUL	W	1.2 (1.7%)	0.5 (0.7%)
	AN	2 (2.9%)	0.4 (0.5%)
	BN	2.6 (3.7%)	0.3 (0.3%)
	D	4.8 (6.9%)	2.1 (3%)
	C	6 (8.5%)	1.5 (2.1%)
	AVG	3.1 (4.4%)	1 (1.3%)

Alternative 7: Feather River at Honcut Creek			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
AUG	W	1.5 (2.2%)	0.9 (1.2%)
	AN	2.9 (4.3%)	1 (1.5%)
	BN	2.5 (3.6%)	0.1 (0.1%)
	D	6 (8.7%)	1.4 (2%)
	C	2.9 (4.1%)	-1.3 (-1.7%)
	AVG	3.1 (4.4%)	0.6 (0.8%)
SEP	W	-0.5 (-0.7%)	1.1 (1.7%)
	AN	1.1 (1.7%)	2.1 (3.2%)
	BN	3 (4.6%)	0.2 (0.2%)
	D	3.1 (4.7%)	-0.7 (-1.1%)
	C	4.7 (7.1%)	0.2 (0.2%)
	AVG	1.9 (2.9%)	0.5 (0.8%)
OCT	W	3.3 (5.5%)	-0.6 (-1%)
	AN	3 (5%)	-0.2 (-0.4%)
	BN	3.1 (5.2%)	-0.5 (-0.8%)
	D	3.7 (6.3%)	-0.3 (-0.5%)
	C	3.6 (6%)	-0.2 (-0.3%)
	AVG	3.3 (5.6%)	-0.4 (-0.7%)
NOV	W	3.4 (6.4%)	-0.7 (-1.2%)
	AN	3.5 (6.4%)	-0.4 (-0.7%)
	BN	3.2 (6%)	-0.8 (-1.4%)
	D	3.7 (7.1%)	-0.6 (-1.1%)
	C	3.7 (6.9%)	-0.2 (-0.3%)
	AVG	3.5 (6.6%)	-0.6 (-1%)
DEC	W	3.4 (7.2%)	0.1 (0.2%)
	AN	3.6 (7.6%)	-0.7 (-1.4%)
	BN	3.5 (7.6%)	-0.5 (-1%)
	D	3.5 (7.5%)	-0.4 (-0.8%)
	C	3.2 (7%)	-0.3 (-0.7%)
	AVG	3.4 (7.4%)	-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.

1 **11D.7.14 Feather River at the Confluence with the Sacramento**
2 **River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
4 **Feather River at Confluence with the Sacramento River, Year-Round**

Alternative 7: Feather River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	47	48	49
	AN	46	48	48
	BN	46	47	47
	D	45	47	47
	C	45	48	48
	AVG	46	48	48
FEB	W	50	52	52
	AN	50	52	52
	BN	50	51	51
	D	50	52	52
	C	51	53	53
	AVG	50	52	52
MAR	W	53	55	55
	AN	54	56	56
	BN	55	57	57
	D	55	57	57
	C	56	58	58
	AVG	55	56	56
APR	W	59	60	60
	AN	60	62	62
	BN	61	62	62
	D	62	64	64
	C	63	65	65
	AVG	61	63	63
MAY	W	65	68	68
	AN	66	69	69
	BN	67	69	69
	D	68	70	71
	C	68	71	71
	AVG	66	69	69
JUN	W	70	73	73
	AN	71	75	74
	BN	72	75	75
	D	73	77	77
	C	72	76	75
	AVG	71	75	75

Alternative 7: Feather River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JUL	W	74	76	77
	AN	72	75	75
	BN	73	76	76
	D	73	76	78
	C	75	79	81
	AVG	73	76	77
AUG	W	73	76	77
	AN	71	74	75
	BN	72	75	75
	D	72	76	78
	C	75	79	78
	AVG	73	76	77
SEP	W	71	70	71
	AN	70	70	71
	BN	70	73	74
	D	70	74	74
	C	70	74	74
	AVG	70	72	73
OCT	W	61	64	64
	AN	62	64	64
	BN	61	64	64
	D	61	64	64
	C	62	65	65
	AVG	61	64	64
NOV	W	52	55	55
	AN	53	56	56
	BN	53	55	55
	D	52	55	55
	C	53	56	56
	AVG	53	55	55
DEC	W	47	49	49
	AN	47	50	49
	BN	46	49	48
	D	46	49	48
	C	45	47	47
	AVG	46	49	48

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

Alternative 7: Feather River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	2 (4.3%)	0.1 (0.3%)
	AN	1.9 (4.1%)	0.1 (0.1%)
	BN	1.9 (4.1%)	0 (0.1%)
	D	2.1 (4.7%)	0 (0%)
	C	2.1 (4.7%)	-0.1 (-0.3%)
	AVG	2 (4.4%)	0 (0.1%)
FEB	W	2 (4%)	0.1 (0.2%)
	AN	2 (3.9%)	0 (0%)
	BN	1.7 (3.5%)	0.1 (0.1%)
	D	1.9 (3.8%)	0 (-0.1%)
	C	2.3 (4.4%)	0.1 (0.2%)
	AVG	2 (3.9%)	0 (0.1%)
MAR	W	1.8 (3.4%)	0.1 (0.2%)
	AN	1.3 (2.4%)	0 (-0.1%)
	BN	1.9 (3.4%)	0 (0%)
	D	1.8 (3.2%)	0 (0.1%)
	C	2.1 (3.7%)	0 (0%)
	AVG	1.8 (3.3%)	0 (0.1%)
APR	W	1.6 (2.8%)	0 (0%)
	AN	1.9 (3.2%)	0 (0%)
	BN	1.7 (2.8%)	0 (0%)
	D	2.1 (3.4%)	0 (0.1%)
	C	2.3 (3.6%)	0 (0.1%)
	AVG	1.9 (3.1%)	0 (0.1%)
MAY	W	3 (4.6%)	0 (0%)
	AN	2.8 (4.2%)	-0.2 (-0.3%)
	BN	2.7 (4.1%)	0.2 (0.2%)
	D	3 (4.4%)	0.3 (0.5%)
	C	2.6 (3.8%)	-0.2 (-0.2%)
	AVG	2.8 (4.3%)	0.1 (0.1%)
JUN	W	3.3 (4.8%)	-0.2 (-0.2%)
	AN	2.8 (3.9%)	-0.5 (-0.7%)
	BN	3.4 (4.7%)	0 (0%)
	D	4.3 (5.8%)	0.5 (0.7%)
	C	2.6 (3.5%)	-0.9 (-1.2%)
	AVG	3.4 (4.7%)	-0.1 (-0.2%)
JUL	W	3.1 (4.2%)	0.5 (0.6%)
	AN	3 (4.2%)	0.3 (0.4%)
	BN	3.4 (4.6%)	0.3 (0.3%)
	D	5.2 (7.1%)	1.9 (2.4%)
	C	6 (8%)	1.5 (1.8%)
	AVG	4 (5.5%)	0.9 (1.1%)

Alternative 7: Feather River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
AUG	W	3.6 (4.9%)	1 (1.3%)
	AN	3.4 (4.8%)	0.7 (0.9%)
	BN	3.4 (4.7%)	0.3 (0.4%)
	D	6.1 (8.5%)	1.4 (1.8%)
	C	3.4 (4.5%)	-1 (-1.2%)
	AVG	4 (5.6%)	0.6 (0.8%)
SEP	W	0.3 (0.4%)	1 (1.4%)
	AN	1.6 (2.3%)	1.7 (2.4%)
	BN	3.4 (4.9%)	0.5 (0.6%)
	D	4.5 (6.4%)	0.1 (0.1%)
	C	3.8 (5.4%)	0.1 (0.2%)
	AVG	2.5 (3.5%)	0.7 (0.9%)
OCT	W	2.9 (4.8%)	-0.2 (-0.3%)
	AN	2.5 (4%)	-0.1 (-0.2%)
	BN	2.7 (4.5%)	-0.2 (-0.3%)
	D	2.9 (4.7%)	-0.2 (-0.3%)
	C	2.9 (4.6%)	-0.4 (-0.6%)
	AVG	2.8 (4.6%)	-0.2 (-0.4%)
NOV	W	2.6 (4.9%)	-0.2 (-0.4%)
	AN	2.7 (5%)	-0.2 (-0.3%)
	BN	2.6 (4.9%)	-0.2 (-0.4%)
	D	2.6 (5.1%)	-0.1 (-0.3%)
	C	2.7 (5%)	-0.1 (-0.2%)
	AVG	2.6 (5%)	-0.2 (-0.3%)
DEC	W	2.1 (4.4%)	0.2 (0.3%)
	AN	2.4 (5.1%)	-0.5 (-1%)
	BN	2.3 (5.1%)	-0.4 (-0.8%)
	D	2.2 (4.7%)	-0.4 (-0.9%)
	C	2.3 (5%)	-0.1 (-0.2%)
	AVG	2.2 (4.8%)	-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.

1 **11D.7.15 American River below Nimbus Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
3 **American River below Nimbus Dam, Year-Round**

Alternative 7: American River below Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	47	50	50
	AN	47	49	50
	BN	46	49	49
	D	47	49	49
	C	47	50	50
	AVG	47	50	50
FEB	W	48	51	51
	AN	48	52	52
	BN	47	51	51
	D	49	52	52
	C	51	54	54
	AVG	48	52	52
MAR	W	52	55	55
	AN	53	56	56
	BN	53	56	56
	D	53	57	56
	C	55	58	58
	AVG	53	56	56
APR	W	56	59	59
	AN	57	60	60
	BN	57	61	61
	D	59	62	62
	C	59	63	63
	AVG	58	60	61
MAY	W	60	64	64
	AN	61	66	66
	BN	61	65	65
	D	64	67	67
	C	64	68	68
	AVG	62	66	66
JUN	W	64	67	66
	AN	65	68	67
	BN	65	68	68
	D	67	69	69
	C	68	72	72
	AVG	66	68	68
JUL	W	66	68	68
	AN	66	66	67
	BN	66	67	67
	D	67	69	68
	C	70	74	74
	AVG	67	69	69

Alternative 7: American River below Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
AUG	W	67	70	70
	AN	67	69	70
	BN	67	69	69
	D	67	71	72
	C	70	76	77
	AVG	67	71	71
SEP	W	65	68	68
	AN	66	69	69
	BN	66	69	69
	D	66	71	71
	C	68	73	74
	AVG	66	70	70
OCT	W	58	68	68
	AN	59	68	68
	BN	58	68	68
	D	59	67	67
	C	61	68	68
	AVG	59	68	68
NOV	W	57	61	61
	AN	57	61	61
	BN	56	61	60
	D	57	61	60
	C	58	61	61
	AVG	57	61	61
DEC	W	50	53	53
	AN	51	53	53
	BN	50	52	52
	D	50	53	53
	C	50	52	52
	AVG	50	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the American River below Nimbus Dam, Year-Round**

Alternative 7: American River below Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	3.1 (6.7%)	0 (0%)
	AN	2.7 (5.8%)	0.1 (0.1%)
	BN	3 (6.6%)	0.1 (0.1%)
	D	2.8 (6%)	-0.1 (-0.1%)
	C	2.8 (6.1%)	-0.1 (-0.3%)
	AVG	2.9 (6.3%)	0 (0%)
FEB	W	3.4 (7.2%)	0 (0%)
	AN	3.8 (7.9%)	0 (0%)
	BN	3.3 (7%)	0 (0.1%)
	D	3.3 (6.8%)	-0.1 (-0.2%)
	C	3.5 (7%)	0.3 (0.5%)
	AVG	3.5 (7.1%)	0 (0%)
MAR	W	3.1 (6%)	0 (0%)
	AN	2.9 (5.6%)	0 (0.1%)
	BN	2.7 (5.1%)	0.1 (0.2%)
	D	3.3 (6.2%)	-0.2 (-0.3%)
	C	3.1 (5.7%)	0.2 (0.3%)
	AVG	3.1 (5.8%)	0 (0%)
APR	W	3 (5.3%)	0 (0%)
	AN	3.2 (5.5%)	0 (0%)
	BN	3.1 (5.4%)	0 (0%)
	D	2.7 (4.6%)	0.2 (0.3%)
	C	3.5 (6%)	0.3 (0.5%)
	AVG	3 (5.3%)	0.1 (0.1%)
MAY	W	4.1 (6.9%)	-0.1 (-0.1%)
	AN	4.5 (7.4%)	-0.2 (-0.4%)
	BN	4.1 (6.8%)	0 (0%)
	D	2.8 (4.4%)	-0.2 (-0.3%)
	C	3.5 (5.4%)	-0.2 (-0.3%)
	AVG	3.8 (6.1%)	-0.1 (-0.2%)
JUN	W	2.4 (3.8%)	-0.5 (-0.8%)
	AN	2.1 (3.2%)	-0.7 (-1.1%)
	BN	2.4 (3.7%)	-0.6 (-0.8%)
	D	2.2 (3.2%)	0.3 (0.4%)
	C	4 (5.9%)	-0.3 (-0.3%)
	AVG	2.6 (3.9%)	-0.3 (-0.5%)
JUL	W	1.5 (2.2%)	0 (0%)
	AN	0.8 (1.2%)	0.3 (0.5%)
	BN	1 (1.5%)	-0.1 (-0.2%)
	D	1.6 (2.4%)	-0.6 (-0.9%)
	C	3.7 (5.4%)	-0.6 (-0.9%)
	AVG	1.7 (2.5%)	-0.2 (-0.3%)

Alternative 7: American River below Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
AUG	W	3 (4.6%)	-0.1 (-0.2%)
	AN	2.3 (3.5%)	0.3 (0.4%)
	BN	2 (3%)	0.2 (0.3%)
	D	4.4 (6.6%)	0.2 (0.3%)
	C	6.6 (9.4%)	0.3 (0.4%)
	AVG	3.6 (5.3%)	0.1 (0.2%)
SEP	W	2.8 (4.3%)	0.1 (0.2%)
	AN	3.4 (5.1%)	0.3 (0.4%)
	BN	3.3 (4.9%)	0.5 (0.7%)
	D	5 (7.6%)	0 (0%)
	C	5.2 (7.6%)	0.4 (0.5%)
	AVG	3.8 (5.7%)	0.2 (0.3%)
OCT	W	9.4 (16.1%)	0.1 (0.1%)
	AN	8.9 (15%)	0.2 (0.3%)
	BN	9.7 (16.7%)	0 (0%)
	D	8.3 (14%)	0 (0%)
	C	7.4 (12.3%)	0.1 (0.1%)
	AVG	8.8 (15%)	0.1 (0.1%)
NOV	W	3.9 (6.8%)	0 (0.1%)
	AN	3.9 (6.7%)	0 (0%)
	BN	4.3 (7.7%)	-0.1 (-0.1%)
	D	3.7 (6.6%)	-0.1 (-0.2%)
	C	3.3 (5.7%)	-0.3 (-0.5%)
	AVG	3.8 (6.7%)	-0.1 (-0.1%)
DEC	W	2.7 (5.3%)	0.1 (0.1%)
	AN	2.7 (5.4%)	0 (0.1%)
	BN	2.6 (5.3%)	-0.1 (-0.1%)
	D	2.6 (5.2%)	-0.1 (-0.1%)
	C	2.2 (4.3%)	-0.4 (-0.7%)
	AVG	2.6 (5.2%)	-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.

1 **11D.7.16 American River at Watt Avenue**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
3 **American River at Watt Avenue, Year-Round**

Alternative 7: American River at Watt Avenue				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL7
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	46	49	49
	C	46	49	49
	AVG	46	49	49
FEB	W	48	52	52
	AN	48	52	52
	BN	48	51	51
	D	49	52	52
	C	51	54	55
	AVG	49	52	52
MAR	W	53	56	56
	AN	53	56	56
	BN	54	56	56
	D	54	57	57
	C	56	58	58
	AVG	54	56	56
APR	W	56	59	59
	AN	58	61	61
	BN	58	61	61
	D	60	63	63
	C	61	64	64
	AVG	58	61	61
MAY	W	61	65	65
	AN	62	67	67
	BN	62	67	66
	D	65	68	68
	C	66	69	69
	AVG	63	67	67
JUN	W	65	68	68
	AN	67	70	69
	BN	67	70	69
	D	69	71	71
	C	69	73	73
	AVG	67	70	70
JUL	W	68	70	70
	AN	67	68	69
	BN	67	69	69
	D	68	71	70
	C	72	76	75
	AVG	68	71	70

Alternative 7: American River at Watt Avenue				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
AUG	W	68	72	72
	AN	69	72	72
	BN	69	72	72
	D	69	73	73
	C	71	77	77
	AVG	69	73	73
SEP	W	66	69	69
	AN	66	70	70
	BN	67	70	71
	D	67	72	72
	C	69	73	74
	AVG	67	71	71
OCT	W	59	67	67
	AN	60	67	67
	BN	59	68	68
	D	60	67	67
	C	61	68	68
	AVG	60	67	67
NOV	W	56	60	60
	AN	56	60	60
	BN	56	60	60
	D	56	59	59
	C	57	60	60
	AVG	56	60	60
DEC	W	50	52	52
	AN	50	52	52
	BN	49	51	51
	D	49	52	52
	C	49	51	51
	AVG	49	52	52

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the American River at Watt Avenue, Year-Round**

Alternative 7: American River at Watt Avenue			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	3.1 (6.7%)	0 (0%)
	AN	2.7 (5.9%)	0.1 (0.1%)
	BN	3 (6.5%)	0.1 (0.1%)
	D	2.7 (5.8%)	-0.1 (-0.1%)
	C	2.8 (6%)	-0.1 (-0.2%)
	AVG	2.9 (6.2%)	0 (0%)
FEB	W	3.4 (7.1%)	0 (0%)
	AN	3.7 (7.7%)	0 (0%)
	BN	3.2 (6.6%)	0 (0%)
	D	3.1 (6.4%)	-0.1 (-0.1%)
	C	3.4 (6.7%)	0.2 (0.3%)
	AVG	3.3 (6.9%)	0 (0%)
MAR	W	3 (5.7%)	0 (0%)
	AN	2.8 (5.4%)	0 (0%)
	BN	2.6 (4.9%)	0 (0.1%)
	D	3.1 (5.6%)	-0.1 (-0.3%)
	C	2.9 (5.2%)	0.2 (0.3%)
	AVG	2.9 (5.4%)	0 (0%)
APR	W	2.8 (5%)	0 (0%)
	AN	3.1 (5.4%)	0 (0%)
	BN	3 (5.2%)	0 (0%)
	D	2.8 (4.6%)	0.2 (0.3%)
	C	3.1 (5%)	0.2 (0.4%)
	AVG	2.9 (5%)	0.1 (0.1%)
MAY	W	4.2 (6.9%)	-0.1 (-0.1%)
	AN	4.6 (7.3%)	-0.3 (-0.4%)
	BN	4.1 (6.5%)	0 (-0.1%)
	D	2.8 (4.3%)	-0.2 (-0.3%)
	C	3.1 (4.7%)	-0.2 (-0.3%)
	AVG	3.7 (6%)	-0.1 (-0.2%)
JUN	W	2.8 (4.3%)	-0.7 (-1%)
	AN	2.1 (3.2%)	-0.8 (-1.1%)
	BN	2.5 (3.7%)	-0.6 (-0.9%)
	D	2.5 (3.7%)	0.2 (0.3%)
	C	3.8 (5.4%)	-0.2 (-0.2%)
	AVG	2.7 (4.1%)	-0.4 (-0.6%)
JUL	W	2.1 (3.1%)	0.1 (0.1%)
	AN	1.2 (1.8%)	0.4 (0.6%)
	BN	1.5 (2.3%)	-0.2 (-0.2%)
	D	2.2 (3.2%)	-0.7 (-1%)
	C	3.1 (4.4%)	-0.8 (-1%)
	AVG	2.1 (3%)	-0.2 (-0.3%)

Alternative 7: American River at Watt Avenue			
Month	WYT	EXISTING CONDITIONS vs. A7_LLT	NAA vs. A7_LLT
AUG	W	4 (5.9%)	-0.1 (-0.1%)
	AN	3.1 (4.6%)	0.2 (0.3%)
	BN	2.8 (4%)	0.2 (0.3%)
	D	4.8 (7%)	0.2 (0.3%)
	C	5.8 (8.1%)	0.3 (0.4%)
	AVG	4.1 (6%)	0.1 (0.2%)
SEP	W	3.2 (4.8%)	0.2 (0.3%)
	AN	3.7 (5.6%)	0.3 (0.4%)
	BN	3.8 (5.8%)	0.5 (0.8%)
	D	4.8 (7.1%)	0 (-0.1%)
	C	4.5 (6.6%)	0.2 (0.3%)
	AVG	3.9 (5.8%)	0.2 (0.3%)
OCT	W	7.8 (13.2%)	0.1 (0.1%)
	AN	7.6 (12.6%)	0.1 (0.1%)
	BN	8.2 (13.8%)	-0.1 (-0.1%)
	D	6.8 (11.4%)	0 (0%)
	C	6.3 (10.2%)	0.1 (0.1%)
	AVG	7.4 (12.4%)	0 (0%)
NOV	W	3.6 (6.3%)	0 (0%)
	AN	3.6 (6.4%)	0 (0%)
	BN	3.9 (7.1%)	-0.1 (-0.1%)
	D	3.4 (6.1%)	0 (-0.1%)
	C	3.1 (5.5%)	-0.3 (-0.4%)
	AVG	3.5 (6.3%)	-0.1 (-0.1%)
DEC	W	2.5 (5.1%)	0.1 (0.1%)
	AN	2.6 (5.2%)	0 (0.1%)
	BN	2.6 (5.2%)	-0.1 (-0.1%)
	D	2.4 (5%)	0 (0%)
	C	2 (4%)	-0.3 (-0.7%)
	AVG	2.4 (5%)	0 (-0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.7.17 American River at the Confluence with the**
 2 **Sacramento River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
 4 **American River at the Confluence with the Sacramento River, Year-Round**

Alternative 7: American River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	47	50	50
	AN	46	49	49
	BN	46	48	48
	D	46	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	48	52	52
	AN	48	52	52
	BN	48	51	51
	D	49	52	52
	C	51	55	55
	AVG	49	52	52
MAR	W	53	56	56
	AN	53	56	56
	BN	54	56	56
	D	55	58	57
	C	56	59	59
	AVG	54	57	57
APR	W	57	60	60
	AN	58	61	61
	BN	59	62	62
	D	61	63	63
	C	62	64	64
	AVG	59	62	62
MAY	W	61	66	66
	AN	63	68	68
	BN	63	67	67
	D	66	69	69
	C	67	70	69
	AVG	64	67	67
JUN	W	65	69	68
	AN	68	71	70
	BN	68	71	70
	D	70	72	72
	C	70	74	74
	AVG	68	71	71

Alternative 7: American River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JUL	W	69	71	71
	AN	68	69	69
	BN	68	70	70
	D	69	72	72
	C	73	76	76
	AVG	69	72	71
AUG	W	69	73	73
	AN	69	73	73
	BN	70	73	73
	D	69	74	74
	C	72	77	77
	AVG	70	74	74
SEP	W	66	69	70
	AN	67	70	71
	BN	67	71	72
	D	68	72	72
	C	69	74	74
	AVG	67	71	71
OCT	W	60	67	67
	AN	60	67	67
	BN	60	67	67
	D	60	66	66
	C	62	67	67
	AVG	60	67	67
NOV	W	56	60	60
	AN	56	60	60
	BN	55	59	59
	D	56	59	59
	C	57	60	60
	AVG	56	59	59
DEC	W	49	52	52
	AN	49	52	52
	BN	48	51	51
	D	49	51	51
	C	48	50	50
	AVG	49	51	51

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

Alternative 7: American River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	3.1 (6.7%)	0 (0%)
	AN	2.8 (6%)	0.1 (0.1%)
	BN	2.9 (6.4%)	0.1 (0.1%)
	D	2.6 (5.6%)	-0.1 (-0.2%)
	C	2.8 (6.1%)	-0.1 (-0.2%)
	AVG	2.9 (6.2%)	0 (0%)
FEB	W	3.4 (7%)	0 (0%)
	AN	3.7 (7.6%)	0 (0.1%)
	BN	3.1 (6.5%)	0 (0%)
	D	3 (6.2%)	-0.1 (-0.2%)
	C	3.3 (6.5%)	0.1 (0.3%)
	AVG	3.3 (6.7%)	0 (0%)
MAR	W	2.9 (5.5%)	0 (0%)
	AN	2.8 (5.3%)	0 (0%)
	BN	2.5 (4.7%)	0 (0.1%)
	D	3 (5.4%)	-0.1 (-0.2%)
	C	2.7 (4.8%)	0.2 (0.3%)
	AVG	2.8 (5.2%)	0 (0%)
APR	W	2.8 (4.9%)	0 (0%)
	AN	3 (5.2%)	0 (0%)
	BN	3 (5%)	0 (0%)
	D	2.8 (4.6%)	0.2 (0.4%)
	C	2.8 (4.6%)	0.2 (0.3%)
	AVG	2.9 (4.9%)	0.1 (0.1%)
MAY	W	4.3 (7%)	-0.1 (-0.1%)
	AN	4.6 (7.3%)	-0.3 (-0.4%)
	BN	4 (6.4%)	0 (-0.1%)
	D	2.8 (4.3%)	-0.2 (-0.2%)
	C	2.9 (4.4%)	-0.3 (-0.4%)
	AVG	3.7 (5.9%)	-0.1 (-0.2%)
JUN	W	3 (4.5%)	-0.7 (-1%)
	AN	2.2 (3.2%)	-0.8 (-1.2%)
	BN	2.5 (3.7%)	-0.6 (-0.9%)
	D	2.7 (3.9%)	0.2 (0.3%)
	C	3.7 (5.4%)	-0.1 (-0.2%)
	AVG	2.8 (4.2%)	-0.4 (-0.6%)
JUL	W	2.4 (3.6%)	0.1 (0.2%)
	AN	1.5 (2.2%)	0.4 (0.6%)
	BN	1.9 (2.7%)	-0.2 (-0.2%)
	D	2.4 (3.5%)	-0.7 (-1%)
	C	3 (4.2%)	-0.7 (-0.9%)
	AVG	2.3 (3.3%)	-0.2 (-0.3%)

Alternative 7: American River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
AUG	W	4.5 (6.5%)	-0.1 (-0.1%)
	AN	3.5 (5.1%)	0.2 (0.3%)
	BN	3.1 (4.4%)	0.2 (0.3%)
	D	4.9 (7.1%)	0.2 (0.3%)
	C	5.4 (7.5%)	0.3 (0.4%)
	AVG	4.4 (6.2%)	0.1 (0.2%)
SEP	W	3.4 (5.1%)	0.3 (0.4%)
	AN	3.9 (5.8%)	0.2 (0.3%)
	BN	4.1 (6.1%)	0.5 (0.7%)
	D	4.6 (6.8%)	-0.1 (-0.1%)
	C	4.2 (6.1%)	0.1 (0.1%)
	AVG	4 (5.9%)	0.2 (0.3%)
OCT	W	7 (11.8%)	0.1 (0.1%)
	AN	6.9 (11.4%)	0 (0.1%)
	BN	7.4 (12.3%)	-0.1 (-0.1%)
	D	6.1 (10.1%)	0 (0%)
	C	5.6 (9.1%)	0.1 (0.1%)
	AVG	6.6 (11%)	0 (0%)
NOV	W	3.4 (6.1%)	0 (-0.1%)
	AN	3.5 (6.2%)	0 (0%)
	BN	3.7 (6.7%)	-0.1 (-0.2%)
	D	3.2 (5.8%)	0 (0%)
	C	3 (5.3%)	-0.2 (-0.4%)
	AVG	3.4 (6%)	-0.1 (-0.1%)
DEC	W	2.5 (5.1%)	0.1 (0.1%)
	AN	2.6 (5.2%)	0.1 (0.1%)
	BN	2.5 (5.2%)	-0.1 (-0.2%)
	D	2.3 (4.8%)	0 (0%)
	C	1.9 (3.9%)	-0.3 (-0.6%)
	AVG	2.4 (4.9%)	0 (-0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.7.18 Stanislaus River at Knights Ferry**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
3 **Stanislaus River at Knights Ferry, Year-Round**

Alternative 7: Stanislaus River at Knights Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL1
JAN	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	48	51	51
	C	49	52	52
	AVG	49	52	52
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	49	52	52
	AN	49	53	53
	BN	51	54	54
	D	51	54	54
	C	52	55	55
	AVG	50	54	54
APR	W	50	53	53
	AN	50	54	54
	BN	51	55	55
	D	52	55	55
	C	53	57	57
	AVG	51	54	54
MAY	W	51	55	54
	AN	53	56	56
	BN	54	57	57
	D	55	58	58
	C	56	59	59
	AVG	53	57	57
JUN	W	54	56	56
	AN	56	59	59
	BN	58	61	61
	D	59	63	62
	C	60	64	63
	AVG	57	60	60
JUL	W	57	59	59
	AN	59	62	62
	BN	60	63	63
	D	61	65	64
	C	62	66	66
	AVG	59	63	63

Alternative 7: Stanislaus River at Knights Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
AUG	W	58	61	61
	AN	60	63	63
	BN	60	64	64
	D	61	65	65
	C	62	67	66
	AVG	60	64	63
SEP	W	59	62	62
	AN	60	64	64
	BN	61	64	64
	D	62	65	65
	C	63	67	67
	AVG	61	64	64
OCT	W	59	62	62
	AN	59	62	62
	BN	59	62	62
	D	58	62	62
	C	60	64	64
	AVG	59	63	63
NOV	W	56	59	59
	AN	56	59	59
	BN	56	59	59
	D	56	59	59
	C	57	61	61
	AVG	56	60	60
DEC	W	52	55	55
	AN	52	55	55
	BN	51	54	54
	D	51	54	54
	C	52	55	55
	AVG	51	55	55

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Knights Ferry, Year-Round**

Alternative 7: Stanislaus River at Knights Ferry			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	3.1 (6.3%)	0 (0%)
	AN	3.1 (6.4%)	0 (0%)
	BN	3.1 (6.4%)	0 (0%)
	D	3 (6.3%)	0 (0%)
	C	3 (6.2%)	0 (0%)
	AVG	3.1 (6.3%)	0 (0%)
FEB	W	3.1 (6.4%)	0 (0%)
	AN	3.2 (6.5%)	0 (0%)
	BN	3 (6.2%)	0 (0%)
	D	3.2 (6.5%)	0 (0%)
	C	3.1 (6.2%)	0 (0%)
	AVG	3.1 (6.4%)	0 (0%)
MAR	W	3.2 (6.5%)	0 (0%)
	AN	3.6 (7.3%)	0 (0%)
	BN	3.1 (6.1%)	0 (0%)
	D	3.3 (6.5%)	0 (0%)
	C	3 (5.8%)	0 (0%)
	AVG	3.2 (6.5%)	0 (0%)
APR	W	3.1 (6.2%)	0 (0%)
	AN	3.3 (6.7%)	0.1 (0.1%)
	BN	3.4 (6.7%)	0 (0%)
	D	3.5 (6.7%)	0 (0%)
	C	3.6 (6.6%)	0 (0%)
	AVG	3.3 (6.5%)	0 (0%)
MAY	W	3 (5.9%)	0 (0%)
	AN	3.2 (6%)	0 (0.1%)
	BN	3.5 (6.5%)	0 (0%)
	D	3.4 (6.2%)	0 (0%)
	C	3.3 (5.9%)	0 (0%)
	AVG	3.2 (6.1%)	0 (0%)
JUN	W	2.6 (4.8%)	0 (-0.1%)
	AN	3.4 (6.1%)	0.1 (0.1%)
	BN	3.5 (6.1%)	-0.1 (-0.2%)
	D	3.5 (5.9%)	-0.3 (-0.5%)
	C	3.8 (6.4%)	-0.3 (-0.5%)
	AVG	3.3 (5.8%)	-0.1 (-0.2%)
JUL	W	2.5 (4.4%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)
	BN	3.4 (5.7%)	-0.1 (-0.1%)
	D	3.6 (5.9%)	-0.2 (-0.2%)
	C	4.1 (6.7%)	0 (0%)
	AVG	3.3 (5.6%)	0 (-0.1%)

Alternative 7: Stanislaus River at Knights Ferry			
Month	WYT	EXISTING CONDITIONS vs. A7_LLT	NAA vs. A7_LLT
AUG	W	3.4 (5.8%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)
	BN	3.4 (5.7%)	-0.1 (-0.1%)
	D	3.4 (5.6%)	-0.1 (-0.2%)
	C	3.9 (6.3%)	-0.4 (-0.6%)
	AVG	3.5 (5.8%)	-0.1 (-0.2%)
SEP	W	3.5 (6%)	0 (0%)
	AN	3.6 (6%)	0 (0%)
	BN	3.6 (5.9%)	0 (0%)
	D	3.7 (5.9%)	0 (0%)
	C	3.9 (6.2%)	0 (0%)
	AVG	3.6 (6%)	0 (0%)
OCT	W	3.5 (5.9%)	0 (0%)
	AN	3.1 (5.3%)	0.1 (0.2%)
	BN	3.3 (5.7%)	0 (0%)
	D	3.5 (5.9%)	0 (0%)
	C	3.8 (6.3%)	0.1 (0.1%)
	AVG	3.5 (5.8%)	0.1 (0.1%)
NOV	W	3.3 (5.8%)	0 (0%)
	AN	3.2 (5.7%)	0.1 (0.2%)
	BN	3.3 (5.9%)	0 (0%)
	D	3.4 (6.1%)	0 (0%)
	C	3.5 (6.1%)	0 (0%)
	AVG	3.3 (5.9%)	0 (0%)
DEC	W	3.3 (6.4%)	0 (-0.1%)
	AN	3.1 (6%)	0 (0.1%)
	BN	3.3 (6.4%)	0 (0%)
	D	3.2 (6.2%)	0 (0%)
	C	3.3 (6.4%)	0 (0%)
	AVG	3.2 (6.3%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.7.19 Stanislaus River at Orange Blossom Bridge**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
3 **Stanislaus River at Orange Blossom Bridge, Year-Round**

Alternative 7: Stanislaus River at Orange Blossom Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL7
JAN	W	48	51	51
	AN	48	51	51
	BN	48	51	51
	D	47	50	50
	C	48	51	51
	AVG	48	51	51
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	49	53	53
	AN	50	54	54
	BN	52	55	55
	D	52	56	56
	C	53	56	56
	AVG	51	54	54
APR	W	50	53	53
	AN	51	54	54
	BN	52	56	56
	D	53	56	56
	C	55	58	58
	AVG	52	55	55
MAY	W	53	56	56
	AN	54	57	57
	BN	55	59	59
	D	56	60	60
	C	58	61	61
	AVG	55	58	58
JUN	W	56	58	58
	AN	58	62	62
	BN	60	64	64
	D	62	66	65
	C	63	67	66
	AVG	59	63	62
JUL	W	60	62	62
	AN	63	66	66
	BN	63	67	67
	D	64	68	68
	C	65	69	69
	AVG	63	66	66

Alternative 7: Stanislaus River at Orange Blossom Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
AUG	W	60	64	64
	AN	63	66	66
	BN	63	66	66
	D	64	68	67
	C	65	69	68
	AVG	63	66	66
SEP	W	60	64	64
	AN	63	66	66
	BN	63	67	67
	D	63	67	67
	C	64	68	68
	AVG	62	66	66
OCT	W	59	62	62
	AN	59	62	62
	BN	59	62	62
	D	59	62	62
	C	60	64	64
	AVG	59	62	63
NOV	W	55	58	58
	AN	55	58	58
	BN	55	58	58
	D	55	58	58
	C	56	59	59
	AVG	55	58	58
DEC	W	50	54	53
	AN	50	53	53
	BN	49	53	53
	D	50	52	52
	C	50	53	53
	AVG	50	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Orange Blossom Bridge, Year-Round**

Alternative 7: Stanislaus River at Orange Blossom Bridge			
Month	WYT	EXISTING CONDITIONS vs. A7_LLTT	NAA vs. A7_LLTT
JAN	W	3 (6.2%)	0 (0%)
	AN	3 (6.3%)	0 (0%)
	BN	2.9 (6.1%)	0 (0%)
	D	2.8 (5.9%)	0 (0%)
	C	2.8 (5.8%)	0 (0%)
	AVG	2.9 (6.1%)	0 (0%)
FEB	W	3.1 (6.3%)	0 (0%)
	AN	3.1 (6.3%)	0 (0%)
	BN	3 (6%)	0 (0%)
	D	3.2 (6.5%)	0 (0%)
	C	3.2 (6.3%)	0 (0%)
	AVG	3.1 (6.3%)	0 (0%)
MAR	W	3.2 (6.4%)	0 (0%)
	AN	3.7 (7.3%)	0 (0%)
	BN	3 (5.8%)	0 (0%)
	D	3.4 (6.5%)	0 (-0.1%)
	C	3.1 (5.8%)	0 (0%)
	AVG	3.3 (6.4%)	0 (0%)
APR	W	3.1 (6.1%)	0 (0%)
	AN	3.4 (6.6%)	0.1 (0.1%)
	BN	3.5 (6.7%)	0 (0%)
	D	3.6 (6.8%)	0 (0%)
	C	3.6 (6.6%)	0 (0%)
	AVG	3.4 (6.5%)	0 (0%)
MAY	W	3.2 (6%)	0 (0%)
	AN	3.3 (6.2%)	0.1 (0.1%)
	BN	3.9 (7.1%)	0 (0%)
	D	3.6 (6.4%)	0 (0%)
	C	3.4 (6%)	0 (0%)
	AVG	3.4 (6.3%)	0 (0%)
JUN	W	2.3 (4.1%)	0 (-0.1%)
	AN	3.9 (6.8%)	0.1 (0.2%)
	BN	3.5 (5.8%)	-0.4 (-0.6%)
	D	3.4 (5.5%)	-0.9 (-1.3%)
	C	3.6 (5.8%)	-0.5 (-0.7%)
	AVG	3.2 (5.4%)	-0.3 (-0.5%)
JUL	W	2.1 (3.5%)	0 (0%)
	AN	3.5 (5.7%)	0 (0%)
	BN	3.5 (5.5%)	-0.1 (-0.1%)
	D	3.8 (5.9%)	0 (0%)
	C	4 (6.2%)	0 (0%)
	AVG	3.2 (5.2%)	0 (0%)

Alternative 7: Stanislaus River at Orange Blossom Bridge			
Month	WYT	EXISTING CONDITIONS vs. A7_LLT	NAA vs. A7_LLT
AUG	W	3.9 (6.4%)	0 (0%)
	AN	3.5 (5.7%)	0 (0%)
	BN	3.4 (5.5%)	0 (0%)
	D	3.4 (5.4%)	-0.1 (-0.1%)
	C	4 (6.1%)	-0.2 (-0.3%)
	AVG	3.7 (5.9%)	-0.1 (-0.1%)
SEP	W	3.8 (6.3%)	0 (0%)
	AN	3.9 (6.2%)	0 (0%)
	BN	3.8 (6%)	0 (0%)
	D	3.7 (5.9%)	0 (0%)
	C	3.9 (6.1%)	0 (0%)
	AVG	3.8 (6.1%)	0 (0%)
OCT	W	3.4 (5.7%)	0.1 (0.1%)
	AN	3.1 (5.3%)	0.1 (0.1%)
	BN	3.2 (5.4%)	0 (0%)
	D	3.4 (5.7%)	0 (0%)
	C	3.6 (6%)	0 (0.1%)
	AVG	3.3 (5.6%)	0 (0.1%)
NOV	W	3.1 (5.7%)	0 (0%)
	AN	3.1 (5.6%)	0.1 (0.1%)
	BN	3.2 (5.8%)	0 (0%)
	D	3.2 (5.9%)	0 (0%)
	C	3.2 (5.8%)	0 (0%)
	AVG	3.2 (5.7%)	0 (0%)
DEC	W	3.1 (6.2%)	-0.1 (-0.1%)
	AN	3 (5.9%)	0 (0%)
	BN	3.3 (6.6%)	0 (0%)
	D	3 (6%)	0 (0%)
	C	3.1 (6.2%)	0 (0%)
	AVG	3.1 (6.2%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.7.20 Stanislaus River at Riverbank**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
3 **Stanislaus River at Riverbank, Year-Round**

Alternative 7: Stanislaus River at Riverbank				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL7
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	45	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	50	53	53
	BN	50	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	51	54	54
	AN	52	55	55
	BN	53	56	56
	D	54	57	57
	C	54	57	57
	AVG	52	56	56
APR	W	52	55	55
	AN	53	56	56
	BN	54	57	57
	D	54	58	58
	C	57	60	60
	AVG	54	57	57
MAY	W	56	59	59
	AN	57	60	60
	BN	58	62	62
	D	59	62	62
	C	60	64	64
	AVG	58	61	61
JUN	W	60	62	62
	AN	62	66	66
	BN	64	68	68
	D	66	70	69
	C	66	70	69
	AVG	63	67	66
JUL	W	65	67	67
	AN	68	71	71
	BN	68	71	71
	D	68	72	72
	C	68	72	72
	AVG	67	70	70

Alternative 7: Stanislaus River at Riverbank				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
AUG	W	65	69	69
	AN	67	70	70
	BN	67	70	70
	D	68	71	71
	C	67	71	71
	AVG	66	70	70
SEP	W	64	67	67
	AN	66	70	70
	BN	66	69	69
	D	66	70	70
	C	66	70	70
	AVG	65	69	69
OCT	W	59	63	63
	AN	59	62	62
	BN	59	62	62
	D	59	62	62
	C	61	64	64
	AVG	60	63	63
NOV	W	53	56	56
	AN	53	56	56
	BN	53	56	56
	D	53	56	56
	C	54	57	57
	AVG	53	56	56
DEC	W	48	51	51
	AN	48	50	50
	BN	47	50	50
	D	47	50	50
	C	47	50	50
	AVG	47	50	50

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Riverbank, Year-Round**

Alternative 7: Stanislaus River at Riverbank			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	2.9 (6.3%)	0 (0%)
	AN	3 (6.4%)	0 (0%)
	BN	2.8 (6%)	0 (0%)
	D	2.5 (5.6%)	0 (0%)
	C	2.7 (5.8%)	0 (0%)
	AVG	2.8 (6.1%)	0 (0%)
FEB	W	2.9 (6%)	0 (0%)
	AN	2.9 (5.8%)	0 (0%)
	BN	2.7 (5.5%)	0 (0%)
	D	3 (6.1%)	0 (0%)
	C	3.1 (6%)	0 (0%)
	AVG	2.9 (5.9%)	0 (0%)
MAR	W	3 (5.9%)	0 (0%)
	AN	3.6 (7%)	0 (0%)
	BN	2.8 (5.3%)	0 (0%)
	D	3.4 (6.3%)	0 (-0.1%)
	C	3 (5.6%)	0 (0%)
	AVG	3.2 (6%)	0 (0%)
APR	W	3 (5.7%)	0 (0%)
	AN	3.3 (6.2%)	0.1 (0.1%)
	BN	3.6 (6.6%)	0 (0%)
	D	3.6 (6.7%)	0 (0%)
	C	3.6 (6.3%)	0 (0%)
	AVG	3.4 (6.2%)	0 (0%)
MAY	W	3.2 (5.8%)	0 (0%)
	AN	3.5 (6.2%)	0.1 (0.2%)
	BN	4.2 (7.3%)	0 (0%)
	D	3.8 (6.6%)	-0.1 (-0.1%)
	C	3.4 (5.7%)	0 (0%)
	AVG	3.6 (6.2%)	0 (0%)
JUN	W	2 (3.3%)	-0.1 (-0.1%)
	AN	4 (6.5%)	0.1 (0.1%)
	BN	3.3 (5.1%)	-0.4 (-0.5%)
	D	3.2 (4.8%)	-0.8 (-1.2%)
	C	3.2 (4.8%)	-0.5 (-0.7%)
	AVG	3 (4.8%)	-0.3 (-0.4%)
JUL	W	1.9 (2.8%)	0 (0%)
	AN	3.3 (4.8%)	0 (0%)
	BN	3.1 (4.5%)	0 (0%)
	D	3.6 (5.3%)	0.1 (0.1%)
	C	3.6 (5.2%)	0 (0.1%)
	AVG	2.9 (4.4%)	0 (0%)

Alternative 7: Stanislaus River at Riverbank			
Month	WYT	EXISTING CONDITIONS vs. A7_LLT	NAA vs. A7_LLT
AUG	W	4.1 (6.4%)	0 (0%)
	AN	3.4 (5.1%)	0 (0%)
	BN	3.2 (4.8%)	0 (0%)
	D	3.2 (4.8%)	0 (-0.1%)
	C	3.7 (5.6%)	0 (-0.1%)
	AVG	3.6 (5.5%)	0 (0%)
SEP	W	3.9 (6.2%)	0 (0%)
	AN	3.9 (5.9%)	0 (0%)
	BN	3.7 (5.7%)	0 (0%)
	D	3.7 (5.6%)	0 (0%)
	C	3.7 (5.6%)	-0.1 (-0.1%)
	AVG	3.8 (5.9%)	0 (0%)
OCT	W	3.1 (5.3%)	0 (0%)
	AN	3 (5%)	0 (0.1%)
	BN	2.9 (5%)	0 (0%)
	D	3.1 (5.2%)	0 (0%)
	C	3.3 (5.5%)	0 (0%)
	AVG	3.1 (5.2%)	0 (0%)
NOV	W	3.1 (5.7%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)
	BN	3.1 (5.8%)	0 (0%)
	D	3.1 (5.8%)	0 (0%)
	C	3 (5.6%)	0 (0%)
	AVG	3.1 (5.8%)	0 (0%)
DEC	W	3 (6.3%)	-0.1 (-0.2%)
	AN	2.9 (6.1%)	0 (0%)
	BN	3.3 (7%)	0 (0%)
	D	2.8 (5.9%)	0 (0%)
	C	2.9 (6.2%)	0 (0%)
	AVG	3 (6.3%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.7.21 Stanislaus River at the Confluence with the San**
2 **Joaquin River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 7 Model Scenarios in the**
4 **Stanislaus River at the Confluence with the San Joaquin River, Year-Round**

Alternative 7: Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LL
JAN	W	46	49	49
	AN	46	49	49
	BN	46	49	49
	D	45	47	47
	C	45	48	48
	AVG	46	48	48
FEB	W	50	53	53
	AN	50	53	53
	BN	50	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	52	55	55
	AN	53	56	56
	BN	54	57	57
	D	55	58	58
	C	55	58	58
	AVG	54	56	56
APR	W	54	57	57
	AN	55	58	58
	BN	56	60	60
	D	57	60	60
	C	59	62	62
	AVG	56	59	59
MAY	W	59	62	62
	AN	60	63	64
	BN	60	64	64
	D	61	65	65
	C	63	66	66
	AVG	60	64	64
JUN	W	62	65	65
	AN	65	69	69
	BN	66	70	69
	D	68	72	71
	C	68	71	71
	AVG	65	69	68

Alternative 7: Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT	EXISTING CONDITIONS	NAA	A7_LLТ
JUL	W	68	70	70
	AN	70	73	73
	BN	70	73	73
	D	70	74	74
	C	70	73	73
	AVG	69	72	72
AUG	W	67	71	71
	AN	69	72	72
	BN	68	71	71
	D	69	72	72
	C	69	72	72
	AVG	68	72	72
SEP	W	65	69	69
	AN	67	71	71
	BN	67	70	70
	D	67	70	70
	C	67	70	70
	AVG	66	70	70
OCT	W	60	63	63
	AN	60	62	62
	BN	59	62	62
	D	59	62	62
	C	61	64	64
	AVG	60	63	63
NOV	W	53	56	56
	AN	52	55	55
	BN	52	55	55
	D	52	55	55
	C	53	56	56
	AVG	52	55	56
DEC	W	47	50	50
	AN	46	49	49
	BN	45	49	49
	D	45	48	48
	C	45	48	48
	AVG	46	49	49

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

Alternative 7: Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT	EXISTING CONDITIONS vs. A7_LL1	NAA vs. A7_LL1
JAN	W	2.9 (6.3%)	0 (0%)
	AN	2.9 (6.4%)	0 (0%)
	BN	2.8 (6.1%)	0 (0%)
	D	2.5 (5.7%)	0 (0%)
	C	2.8 (6.1%)	0 (0%)
	AVG	2.8 (6.2%)	0 (0%)
FEB	W	2.9 (5.7%)	0 (0%)
	AN	2.8 (5.6%)	0 (0%)
	BN	2.6 (5.2%)	0 (0%)
	D	2.8 (5.6%)	0 (0%)
	C	2.9 (5.6%)	0 (0%)
	AVG	2.8 (5.6%)	0 (0%)
MAR	W	2.9 (5.5%)	0 (0%)
	AN	3.3 (6.3%)	0 (0%)
	BN	2.6 (4.9%)	0 (0%)
	D	3.2 (5.7%)	0 (0%)
	C	2.8 (5.1%)	0 (0%)
	AVG	3 (5.5%)	0 (0%)
APR	W	2.8 (5.2%)	0 (0%)
	AN	3.2 (5.7%)	0.1 (0.1%)
	BN	3.4 (6.1%)	0 (0%)
	D	3.5 (6.1%)	0 (0%)
	C	3.2 (5.5%)	0 (0%)
	AVG	3.2 (5.7%)	0 (0%)
MAY	W	3.2 (5.4%)	0 (0%)
	AN	3.5 (5.8%)	0.1 (0.1%)
	BN	4 (6.7%)	0 (0%)
	D	3.7 (5.9%)	0 (0%)
	C	3.2 (5.1%)	0 (0%)
	AVG	3.4 (5.7%)	0 (0%)
JUN	W	2.2 (3.5%)	-0.1 (-0.1%)
	AN	3.8 (5.9%)	0.1 (0.1%)
	BN	3.1 (4.8%)	-0.2 (-0.3%)
	D	3 (4.4%)	-0.4 (-0.6%)
	C	3 (4.4%)	-0.3 (-0.4%)
	AVG	2.9 (4.5%)	-0.2 (-0.2%)
JUL	W	2.3 (3.4%)	0 (0%)
	AN	3 (4.2%)	0 (0%)
	BN	2.8 (4%)	0 (0%)
	D	3.2 (4.6%)	0 (0%)
	C	3.2 (4.5%)	0 (0%)
	AVG	2.8 (4.1%)	0 (0%)

Alternative 7: Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT	EXISTING CONDITIONS vs. A7_LLT	NAA vs. A7_LLT
AUG	W	4.1 (6.1%)	0 (0%)
	AN	3.2 (4.7%)	0 (0%)
	BN	3.1 (4.5%)	0 (0%)
	D	3.1 (4.5%)	0 (0%)
	C	3.6 (5.2%)	0 (0%)
	AVG	3.5 (5.1%)	0 (0%)
SEP	W	3.9 (6%)	0 (0%)
	AN	3.8 (5.6%)	0 (0%)
	BN	3.7 (5.5%)	0 (0%)
	D	3.7 (5.5%)	0 (0%)
	C	3.5 (5.3%)	-0.1 (-0.2%)
	AVG	3.7 (5.6%)	0 (0%)
OCT	W	3 (5%)	0 (0%)
	AN	2.9 (4.8%)	0 (0%)
	BN	2.7 (4.5%)	0 (0%)
	D	2.9 (4.9%)	0 (0%)
	C	3.2 (5.3%)	0 (0%)
	AVG	3 (4.9%)	0 (0%)
NOV	W	3 (5.8%)	0 (0%)
	AN	3.2 (6%)	0 (0%)
	BN	3.1 (5.9%)	0 (0%)
	D	3.1 (5.9%)	0 (0%)
	C	3 (5.6%)	0 (0%)
	AVG	3.1 (5.8%)	0 (0%)
DEC	W	3 (6.4%)	-0.1 (-0.1%)
	AN	2.9 (6.2%)	0 (0%)
	BN	3.2 (7.1%)	0 (0%)
	D	2.8 (6.1%)	0 (0%)
	C	2.9 (6.4%)	0 (0%)
	AVG	3 (6.4%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.8 Alternative 8**

2 **11D.8.1 Sacramento River at Keswick**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
4 **Sacramento River at Keswick, Year-Round**

Alternative 8: Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	46	47	47
	AN	46	48	48
	BN	47	48	48
	D	47	48	48
	C	47	48	49
	AVG	46	48	48
FEB	W	45	47	47
	AN	46	47	47
	BN	46	47	47
	D	46	48	48
	C	46	48	48
	AVG	46	47	47
MAR	W	46	47	48
	AN	46	48	48
	BN	47	48	48
	D	47	49	49
	C	48	50	50
	AVG	47	48	48
APR	W	47	49	49
	AN	48	50	50
	BN	48	50	50
	D	48	50	50
	C	49	51	51
	AVG	48	50	50
MAY	W	49	50	50
	AN	49	51	50
	BN	49	51	51
	D	49	51	51
	C	51	53	53
	AVG	49	51	51
JUN	W	50	51	51
	AN	50	51	51
	BN	50	51	52
	D	50	52	53
	C	53	55	55
	AVG	50	52	52

Alternative 8: Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LLT
JUL	W	51	52	53
	AN	51	52	53
	BN	51	52	53
	D	51	54	54
	C	54	59	59
	AVG	51	53	54
AUG	W	52	54	55
	AN	52	54	55
	BN	52	54	55
	D	53	56	56
	C	57	64	64
	AVG	53	56	57
SEP	W	53	55	55
	AN	54	56	56
	BN	54	56	57
	D	55	59	59
	C	60	66	66
	AVG	55	58	58
OCT	W	54	57	56
	AN	54	57	57
	BN	54	57	57
	D	55	58	58
	C	56	60	60
	AVG	54	58	57
NOV	W	53	55	55
	AN	52	55	54
	BN	53	55	55
	D	53	56	55
	C	54	56	56
	AVG	53	55	55
DEC	W	49	50	50
	AN	49	51	51
	BN	50	52	52
	D	50	52	52
	C	51	52	52
	AVG	50	51	51

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

Alternative 8: Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS	
		vs. A8_LLT	NAA vs. A8_LLT
JAN	W	1.4 (3.1%)	0.1 (0.2%)
	AN	1.4 (3%)	0 (-0.1%)
	BN	1.7 (3.6%)	0 (0%)
	D	1.6 (3.4%)	0 (0%)
	C	2 (4.2%)	0.2 (0.3%)
	AVG	1.6 (3.4%)	0 (0.1%)
FEB	W	1.6 (3.6%)	0.1 (0.2%)
	AN	1.7 (3.8%)	0.1 (0.3%)
	BN	1.6 (3.5%)	0 (0.1%)
	D	1.7 (3.7%)	0 (-0.1%)
	C	1.8 (3.8%)	0 (0%)
	AVG	1.7 (3.7%)	0 (0.1%)
MAR	W	1.6 (3.4%)	0.1 (0.2%)
	AN	1.7 (3.6%)	0.1 (0.1%)
	BN	1.5 (3.2%)	-0.1 (-0.1%)
	D	1.5 (3.3%)	-0.1 (-0.3%)
	C	2 (4.2%)	0.1 (0.1%)
	AVG	1.6 (3.5%)	0 (0%)
APR	W	1.5 (3.2%)	-0.2 (-0.3%)
	AN	1.4 (2.9%)	-0.3 (-0.6%)
	BN	1.3 (2.7%)	0 (-0.1%)
	D	1.5 (3.1%)	-0.1 (-0.1%)
	C	2 (4%)	-0.1 (-0.2%)
	AVG	1.5 (3.2%)	-0.1 (-0.3%)
MAY	W	1.6 (3.3%)	-0.2 (-0.3%)
	AN	1.2 (2.5%)	-0.1 (-0.2%)
	BN	1.4 (2.9%)	0 (0.1%)
	D	2 (4%)	0.4 (0.9%)
	C	2.1 (4.1%)	0.1 (0.1%)
	AVG	1.7 (3.4%)	0 (0.1%)
JUN	W	1.1 (2.3%)	0.2 (0.3%)
	AN	1.7 (3.4%)	0.4 (0.9%)
	BN	2.4 (4.8%)	1.2 (2.3%)
	D	2.8 (5.6%)	0.9 (1.8%)
	C	2.2 (4.2%)	0.1 (0.2%)
	AVG	2 (3.9%)	0.5 (1%)
JUL	W	1.9 (3.7%)	0.9 (1.8%)
	AN	2.5 (4.9%)	1.1 (2.2%)
	BN	2.5 (4.8%)	1.1 (2.1%)
	D	2.8 (5.5%)	0.4 (0.8%)
	C	5 (9.2%)	-0.2 (-0.3%)
	AVG	2.7 (5.3%)	0.7 (1.4%)

Alternative 8: Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	2.8 (5.3%)	0.8 (1.5%)
	AN	3 (5.7%)	1.1 (2%)
	BN	3.2 (6.3%)	0.9 (1.6%)
	D	3.4 (6.5%)	0.4 (0.7%)
	C	7.6 (13.4%)	0.1 (0.1%)
	AVG	3.7 (7%)	0.7 (1.2%)
SEP	W	1.7 (3.2%)	0 (0%)
	AN	2.3 (4.2%)	0 (0.1%)
	BN	3.7 (7%)	1.1 (1.9%)
	D	4.7 (8.7%)	0.3 (0.5%)
	C	5.7 (9.5%)	-0.3 (-0.4%)
	AVG	3.4 (6.2%)	0.2 (0.4%)
OCT	W	2.4 (4.5%)	-0.6 (-1.1%)
	AN	2.8 (5.1%)	0 (0%)
	BN	3.2 (5.8%)	0.1 (0.2%)
	D	3.3 (6.1%)	-0.2 (-0.3%)
	C	3.6 (6.3%)	-0.2 (-0.3%)
	AVG	3 (5.4%)	-0.3 (-0.4%)
NOV	W	2 (3.8%)	-0.3 (-0.5%)
	AN	1.9 (3.6%)	-0.3 (-0.6%)
	BN	2.2 (4.2%)	-0.2 (-0.4%)
	D	2.2 (4.2%)	-0.1 (-0.2%)
	C	2 (3.6%)	-0.5 (-0.9%)
	AVG	2.1 (3.9%)	-0.3 (-0.5%)
DEC	W	1.4 (2.8%)	0.1 (0.2%)
	AN	1.6 (3.2%)	-0.2 (-0.3%)
	BN	1.8 (3.5%)	-0.3 (-0.5%)
	D	1.7 (3.3%)	-0.3 (-0.5%)
	C	1.8 (3.5%)	-0.1 (-0.3%)
	AVG	1.6 (3.2%)	-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.

1 **11D.8.2 Sacramento River at Jelly’s Ferry**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
3 **Sacramento River at Jelly’s Ferry, Year-Round**

Alternative 8: Sacramento River at Jelly’s Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	45	46	47
	D	45	47	47
	C	45	47	47
	AVG	45	47	47
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	47
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	49	50
	AN	49	51	51
	BN	49	51	51
	D	50	51	51
	C	50	52	52
	AVG	49	51	50
APR	W	51	53	53
	AN	53	55	54
	BN	53	54	53
	D	52	54	54
	C	52	54	54
	AVG	52	54	53
MAY	W	54	57	56
	AN	55	57	55
	BN	54	57	56
	D	54	56	56
	C	55	57	57
	AVG	54	57	56
JUN	W	55	56	56
	AN	55	56	56
	BN	54	56	57
	D	54	56	57
	C	56	58	58
	AVG	55	56	57
JUL	W	56	57	57
	AN	55	56	57
	BN	55	56	58
	D	55	57	58
	C	57	62	62
	AVG	55	57	58

Alternative 8: Sacramento River at Jelly's Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LLT
AUG	W	56	59	59
	AN	56	58	60
	BN	56	58	59
	D	56	59	60
	C	59	67	66
	AVG	57	60	61
SEP	W	56	57	58
	AN	57	59	59
	BN	57	60	61
	D	58	63	63
	C	61	67	67
	AVG	58	61	61
OCT	W	54	57	57
	AN	54	57	57
	BN	55	57	58
	D	55	58	58
	C	56	60	60
	AVG	55	58	58
NOV	W	51	53	53
	AN	51	53	53
	BN	51	54	53
	D	51	54	53
	C	52	55	54
	AVG	51	53	53
DEC	W	47	48	48
	AN	47	48	48
	BN	47	49	49
	D	47	49	48
	C	47	49	49
	AVG	47	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Jelly’s Ferry, Year-Round**

Alternative 8: Sacramento River at Jelly’s Ferry			
Month	WYT	EXISTING CONDITIONS	
		vs. A8_LLT	NAA vs. A8_LLT
JAN	W	1.5 (3.4%)	0.1 (0.2%)
	AN	1.6 (3.5%)	0 (0.1%)
	BN	1.8 (4.1%)	0.1 (0.3%)
	D	1.7 (3.8%)	-0.1 (-0.3%)
	C	2.1 (4.6%)	-0.1 (-0.2%)
	AVG	1.7 (3.8%)	0 (0%)
FEB	W	1.6 (3.5%)	0.1 (0.1%)
	AN	1.6 (3.6%)	0.1 (0.1%)
	BN	1.7 (3.6%)	0 (0%)
	D	1.8 (3.8%)	-0.1 (-0.2%)
	C	1.8 (3.9%)	-0.1 (-0.3%)
	AVG	1.7 (3.7%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0.1%)
	AN	1.5 (3.1%)	0 (-0.1%)
	BN	1.5 (3%)	-0.2 (-0.5%)
	D	1.2 (2.5%)	-0.4 (-0.8%)
	C	1.7 (3.3%)	-0.1 (-0.3%)
	AVG	1.5 (3%)	-0.1 (-0.3%)
APR	W	1.5 (3%)	-0.3 (-0.5%)
	AN	1.1 (2%)	-0.8 (-1.5%)
	BN	0.7 (1.3%)	-1.1 (-2%)
	D	1.2 (2.2%)	-0.7 (-1.2%)
	C	2 (3.9%)	0 (0%)
	AVG	1.3 (2.5%)	-0.5 (-1%)
MAY	W	2.2 (4.1%)	-0.7 (-1.2%)
	AN	0.6 (1.2%)	-1 (-1.8%)
	BN	1.4 (2.6%)	-0.7 (-1.2%)
	D	2.2 (4%)	0.4 (0.6%)
	C	1.9 (3.5%)	0 (0%)
	AVG	1.8 (3.3%)	-0.4 (-0.7%)
JUN	W	0.9 (1.7%)	-0.5 (-0.9%)
	AN	1.3 (2.4%)	0 (-0.1%)
	BN	2.5 (4.6%)	0.9 (1.6%)
	D	3 (5.6%)	1.1 (1.9%)
	C	1.9 (3.4%)	-0.1 (-0.2%)
	AVG	1.8 (3.4%)	0.2 (0.4%)
JUL	W	1.9 (3.4%)	0.9 (1.6%)
	AN	2.8 (5.1%)	1.3 (2.4%)
	BN	3.1 (5.6%)	1.4 (2.5%)
	D	3.1 (5.6%)	0.7 (1.2%)
	C	5 (8.7%)	-0.1 (-0.1%)
	AVG	2.9 (5.3%)	0.9 (1.5%)

Alternative 8: Sacramento River at Jelly's Ferry			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	3.4 (6%)	0.8 (1.4%)
	AN	3.5 (6.2%)	1.6 (2.7%)
	BN	3.9 (7%)	1.3 (2.2%)
	D	3.6 (6.4%)	0.5 (0.9%)
	C	7.1 (11.9%)	-0.1 (-0.1%)
	AVG	4.1 (7.2%)	0.8 (1.4%)
SEP	W	1.4 (2.6%)	0.2 (0.3%)
	AN	1.8 (3.2%)	0.6 (0.9%)
	BN	4.5 (7.8%)	1.6 (2.6%)
	D	5.3 (9.2%)	0.5 (0.7%)
	C	5.2 (8.4%)	-0.1 (-0.2%)
	AVG	3.4 (5.9%)	0.5 (0.8%)
OCT	W	2.4 (4.5%)	-0.4 (-0.7%)
	AN	2.7 (5%)	0.1 (0.2%)
	BN	3.1 (5.7%)	0.2 (0.4%)
	D	2.9 (5.3%)	-0.2 (-0.4%)
	C	3.3 (5.9%)	-0.1 (-0.2%)
	AVG	2.8 (5.2%)	-0.1 (-0.2%)
NOV	W	1.9 (3.8%)	-0.4 (-0.7%)
	AN	1.8 (3.6%)	-0.4 (-0.8%)
	BN	2.2 (4.3%)	-0.3 (-0.6%)
	D	2.1 (4%)	-0.2 (-0.4%)
	C	2 (3.8%)	-0.4 (-0.8%)
	AVG	2 (3.9%)	-0.3 (-0.6%)
DEC	W	1.3 (2.8%)	0.1 (0.3%)
	AN	1.5 (3.3%)	-0.3 (-0.6%)
	BN	1.7 (3.6%)	-0.2 (-0.4%)
	D	1.6 (3.5%)	-0.3 (-0.6%)
	C	1.9 (4.1%)	0 (0%)
	AVG	1.6 (3.3%)	-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.

1 **11D.8.3 Sacramento River at Bend Bridge**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
3 **Sacramento River at Bend Bridge, Year-Round**

Alternative 8: Sacramento River at Bend Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	45	46	47
	D	45	47	46
	C	45	47	47
	AVG	45	47	47
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	50	50
	AN	49	51	51
	BN	49	51	51
	D	50	52	51
	C	50	52	52
	AVG	49	51	51
APR	W	51	53	53
	AN	53	55	54
	BN	53	55	54
	D	53	55	54
	C	52	54	54
	AVG	52	54	54
MAY	W	54	57	57
	AN	55	57	56
	BN	55	57	56
	D	55	56	57
	C	55	57	57
	AVG	55	57	57
JUN	W	56	57	57
	AN	55	57	56
	BN	55	57	58
	D	55	57	58
	C	57	59	58
	AVG	55	57	57
JUL	W	56	57	58
	AN	55	57	58
	BN	55	57	59
	D	56	58	59
	C	58	63	63
	AVG	56	58	59

Alternative 8: Sacramento River at Bend Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LLT
AUG	W	57	59	60
	AN	57	59	60
	BN	56	59	60
	D	57	60	61
	C	60	67	67
	AVG	57	60	61
SEP	W	57	58	58
	AN	58	59	60
	BN	58	60	62
	D	58	63	64
	C	62	67	67
	AVG	58	61	61
OCT	W	54	57	57
	AN	55	57	57
	BN	55	58	58
	D	55	58	58
	C	56	60	60
	AVG	55	58	58
NOV	W	51	53	52
	AN	51	53	53
	BN	51	53	53
	D	51	54	53
	C	52	54	54
	AVG	51	53	53
DEC	W	47	48	48
	AN	46	48	48
	BN	47	49	48
	D	46	48	48
	C	47	49	49
	AVG	47	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Bend Bridge, Year-Round**

Alternative 8: Sacramento River at Bend Bridge			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
JAN	W	1.5 (3.4%)	0.1 (0.2%)
	AN	1.6 (3.6%)	0 (0.1%)
	BN	1.9 (4.2%)	0.1 (0.3%)
	D	1.8 (3.9%)	-0.1 (-0.3%)
	C	2.1 (4.7%)	-0.1 (-0.2%)
	AVG	1.7 (3.9%)	0 (0%)
FEB	W	1.6 (3.5%)	0.1 (0.1%)
	AN	1.7 (3.6%)	0.1 (0.1%)
	BN	1.7 (3.7%)	0 (0%)
	D	1.8 (3.9%)	-0.1 (-0.2%)
	C	1.9 (4%)	-0.1 (-0.3%)
	AVG	1.7 (3.7%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0.1%)
	AN	1.5 (3.1%)	0 (-0.1%)
	BN	1.5 (3%)	-0.2 (-0.4%)
	D	1.3 (2.6%)	-0.4 (-0.8%)
	C	1.7 (3.4%)	-0.1 (-0.3%)
	AVG	1.5 (3%)	-0.1 (-0.3%)
APR	W	1.5 (3%)	-0.2 (-0.5%)
	AN	1.1 (2.1%)	-0.8 (-1.5%)
	BN	0.7 (1.3%)	-1.1 (-2%)
	D	1.2 (2.2%)	-0.7 (-1.3%)
	C	2 (3.9%)	0 (0%)
	AVG	1.3 (2.5%)	-0.5 (-1%)
MAY	W	2.3 (4.2%)	-0.7 (-1.2%)
	AN	0.6 (1.2%)	-1.1 (-1.9%)
	BN	1.5 (2.7%)	-0.7 (-1.3%)
	D	2.2 (4%)	0.3 (0.6%)
	C	1.9 (3.5%)	0 (0%)
	AVG	1.8 (3.3%)	-0.4 (-0.8%)
JUN	W	0.9 (1.7%)	-0.5 (-0.9%)
	AN	1.3 (2.4%)	-0.1 (-0.2%)
	BN	2.5 (4.6%)	0.9 (1.5%)
	D	3.1 (5.6%)	1.1 (1.9%)
	C	1.9 (3.3%)	-0.1 (-0.2%)
	AVG	1.9 (3.4%)	0.2 (0.3%)
JUL	W	1.9 (3.4%)	0.9 (1.6%)
	AN	2.8 (5.1%)	1.4 (2.4%)
	BN	3.2 (5.7%)	1.4 (2.5%)
	D	3.1 (5.6%)	0.7 (1.2%)
	C	5 (8.5%)	0 (-0.1%)
	AVG	3 (5.3%)	0.9 (1.5%)

Alternative 8: Sacramento River at Bend Bridge			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	3.4 (6.1%)	0.8 (1.4%)
	AN	3.6 (6.3%)	1.6 (2.8%)
	BN	4 (7.1%)	1.3 (2.2%)
	D	3.6 (6.3%)	0.5 (0.9%)
	C	7 (11.7%)	-0.1 (-0.1%)
	AVG	4.1 (7.2%)	0.8 (1.4%)
SEP	W	1.4 (2.6%)	0.2 (0.4%)
	AN	1.8 (3.2%)	0.6 (1%)
	BN	4.5 (7.9%)	1.6 (2.6%)
	D	5.4 (9.2%)	0.5 (0.7%)
	C	5.1 (8.3%)	-0.1 (-0.2%)
	AVG	3.4 (5.9%)	0.5 (0.8%)
OCT	W	2.4 (4.5%)	-0.4 (-0.7%)
	AN	2.7 (5%)	0.1 (0.3%)
	BN	3.1 (5.8%)	0.2 (0.4%)
	D	2.9 (5.3%)	-0.2 (-0.4%)
	C	3.3 (5.9%)	-0.1 (-0.1%)
	AVG	2.8 (5.2%)	-0.1 (-0.2%)
NOV	W	1.9 (3.8%)	-0.4 (-0.7%)
	AN	1.9 (3.7%)	-0.4 (-0.7%)
	BN	2.2 (4.3%)	-0.3 (-0.6%)
	D	2.1 (4.1%)	-0.2 (-0.4%)
	C	2 (3.9%)	-0.4 (-0.7%)
	AVG	2 (4%)	-0.3 (-0.6%)
DEC	W	1.3 (2.8%)	0.1 (0.3%)
	AN	1.6 (3.3%)	-0.3 (-0.6%)
	BN	1.7 (3.7%)	-0.2 (-0.4%)
	D	1.7 (3.6%)	-0.3 (-0.6%)
	C	2 (4.3%)	0 (0%)
	AVG	1.6 (3.4%)	-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.

1 **11D.8.4 Sacramento River at Red Bluff Diversion Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
3 **Sacramento River at Red Bluff Diversion Dam, Year-Round**

Alternative 8: Sacramento River at Red Bluff Diversion Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	45	46	47
	AN	45	47	47
	BN	44	46	46
	D	44	46	46
	C	44	47	47
	AVG	45	46	46
FEB	W	46	47	48
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	50	50
	AN	49	51	51
	BN	49	51	51
	D	50	52	52
	C	51	53	52
	AVG	49	51	51
APR	W	52	54	53
	AN	53	55	55
	BN	54	55	54
	D	54	55	55
	C	53	55	55
	AVG	53	55	54
MAY	W	55	58	58
	AN	56	58	57
	BN	56	58	58
	D	56	58	58
	C	57	59	58
	AVG	56	58	58
JUN	W	57	59	58
	AN	57	58	58
	BN	57	58	59
	D	57	59	60
	C	58	60	60
	AVG	57	59	59
JUL	W	58	59	60
	AN	57	59	60
	BN	57	59	61
	D	57	60	61
	C	60	64	64
	AVG	58	60	61

Alternative 8: Sacramento River at Red Bluff Diversion Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LLT
AUG	W	58	61	62
	AN	59	61	62
	BN	58	61	62
	D	59	62	62
	C	61	68	68
	AVG	59	62	63
SEP	W	58	59	59
	AN	59	60	61
	BN	59	62	64
	D	59	64	65
	C	63	68	68
	AVG	59	62	63
OCT	W	55	57	57
	AN	55	57	58
	BN	55	58	58
	D	55	59	58
	C	56	60	60
	AVG	55	58	58
NOV	W	50	53	52
	AN	50	53	52
	BN	51	53	53
	D	51	53	53
	C	52	54	54
	AVG	51	53	53
DEC	W	46	48	48
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	46	48	48
	AVG	46	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Red Bluff Diversion Dam, Year-Round**

Alternative 8: Sacramento River at Red Bluff Diversion Dam			
Month	WYT	EXISTING CONDITIONS	
		vs. A8_LLT	NAA vs. A8_LLT
JAN	W	1.6 (3.5%)	0.1 (0.2%)
	AN	1.7 (3.7%)	0 (0.1%)
	BN	2 (4.4%)	0.1 (0.3%)
	D	1.8 (4.1%)	-0.1 (-0.3%)
	C	2.2 (4.9%)	-0.1 (-0.3%)
	AVG	1.8 (4%)	0 (0%)
FEB	W	1.7 (3.6%)	0.1 (0.1%)
	AN	1.7 (3.7%)	0 (0.1%)
	BN	1.7 (3.8%)	0 (0%)
	D	1.9 (4%)	-0.1 (-0.2%)
	C	2 (4.2%)	-0.1 (-0.3%)
	AVG	1.8 (3.8%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0.1%)
	AN	1.6 (3.2%)	0 (-0.1%)
	BN	1.5 (3.1%)	-0.2 (-0.4%)
	D	1.3 (2.6%)	-0.4 (-0.8%)
	C	1.7 (3.4%)	-0.1 (-0.3%)
	AVG	1.5 (3.1%)	-0.1 (-0.3%)
APR	W	1.6 (3%)	-0.2 (-0.4%)
	AN	1.1 (2.1%)	-0.8 (-1.5%)
	BN	0.7 (1.4%)	-1.1 (-2.1%)
	D	1.2 (2.2%)	-0.7 (-1.3%)
	C	2.1 (3.9%)	0 (0%)
	AVG	1.4 (2.6%)	-0.5 (-1%)
MAY	W	2.3 (4.2%)	-0.7 (-1.3%)
	AN	0.6 (1.1%)	-1.2 (-2%)
	BN	1.5 (2.7%)	-0.8 (-1.4%)
	D	2.2 (4%)	0.3 (0.6%)
	C	1.9 (3.4%)	0 (-0.1%)
	AVG	1.9 (3.3%)	-0.5 (-0.8%)
JUN	W	1 (1.8%)	-0.6 (-1.1%)
	AN	1.3 (2.4%)	-0.2 (-0.3%)
	BN	2.6 (4.6%)	0.8 (1.4%)
	D	3.1 (5.5%)	1.1 (1.8%)
	C	1.8 (3.2%)	-0.2 (-0.3%)
	AVG	1.9 (3.4%)	0.1 (0.2%)
JUL	W	2 (3.4%)	0.9 (1.5%)
	AN	2.9 (5.1%)	1.4 (2.4%)
	BN	3.3 (5.8%)	1.5 (2.5%)
	D	3.2 (5.6%)	0.8 (1.3%)
	C	4.9 (8.2%)	0 (0%)
	AVG	3 (5.3%)	0.9 (1.5%)

Alternative 8: Sacramento River at Red Bluff Diversion Dam			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	3.6 (6.2%)	0.8 (1.4%)
	AN	3.7 (6.4%)	1.7 (2.8%)
	BN	4.1 (7.2%)	1.4 (2.2%)
	D	3.7 (6.2%)	0.5 (0.9%)
	C	6.9 (11.2%)	-0.1 (-0.2%)
	AVG	4.2 (7.2%)	0.8 (1.4%)
SEP	W	1.5 (2.6%)	0.3 (0.5%)
	AN	1.8 (3.1%)	0.7 (1.2%)
	BN	4.7 (8%)	1.7 (2.7%)
	D	5.5 (9.2%)	0.5 (0.8%)
	C	5.1 (8.2%)	-0.1 (-0.2%)
	AVG	3.5 (5.9%)	0.6 (0.9%)
OCT	W	2.5 (4.6%)	-0.3 (-0.5%)
	AN	2.8 (5.1%)	0.2 (0.3%)
	BN	3.2 (5.8%)	0.3 (0.5%)
	D	2.9 (5.3%)	-0.2 (-0.3%)
	C	3.3 (5.9%)	0 (-0.1%)
	AVG	2.9 (5.2%)	-0.1 (-0.1%)
NOV	W	2 (4%)	-0.4 (-0.7%)
	AN	1.9 (3.8%)	-0.4 (-0.7%)
	BN	2.3 (4.5%)	-0.3 (-0.6%)
	D	2.1 (4.2%)	-0.2 (-0.4%)
	C	2.1 (4.1%)	-0.4 (-0.7%)
	AVG	2.1 (4.1%)	-0.3 (-0.6%)
DEC	W	1.4 (3%)	0.1 (0.3%)
	AN	1.6 (3.5%)	-0.3 (-0.6%)
	BN	1.8 (3.9%)	-0.2 (-0.4%)
	D	1.8 (3.8%)	-0.3 (-0.5%)
	C	2.1 (4.5%)	0 (0%)
	AVG	1.7 (3.6%)	-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.

1 **11D.8.5 Sacramento River at Hamilton City**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
3 **Sacramento River at Hamilton City, Year-Round**

Alternative 8: Sacramento River at Hamilton City				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	44	46	46
	D	44	46	46
	C	44	47	47
	AVG	45	47	47
FEB	W	46	48	48
	AN	47	48	48
	BN	46	48	48
	D	47	49	49
	C	48	50	50
	AVG	47	49	49
MAR	W	49	51	51
	AN	51	52	52
	BN	51	53	52
	D	52	54	53
	C	52	54	54
	AVG	51	52	52
APR	W	54	55	55
	AN	55	57	57
	BN	56	58	56
	D	56	58	57
	C	56	58	58
	AVG	55	57	56
MAY	W	58	62	61
	AN	60	62	60
	BN	59	62	61
	D	59	61	61
	C	60	62	62
	AVG	59	62	61
JUN	W	61	63	62
	AN	61	62	62
	BN	60	62	63
	D	60	63	64
	C	61	63	63
	AVG	61	63	63
JUL	W	62	63	64
	AN	61	63	64
	BN	61	63	65
	D	61	64	65
	C	63	68	68
	AVG	62	64	65

Alternative 8: Sacramento River at Hamilton City				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LLT
AUG	W	62	65	66
	AN	62	64	66
	BN	62	65	66
	D	62	65	66
	C	65	71	71
	AVG	62	66	67
SEP	W	60	61	62
	AN	62	63	64
	BN	62	65	67
	D	62	67	68
	C	64	69	69
	AVG	62	65	65
OCT	W	55	58	58
	AN	56	58	59
	BN	56	59	59
	D	56	59	59
	C	57	60	61
	AVG	56	59	59
NOV	W	50	53	52
	AN	50	53	52
	BN	50	53	53
	D	51	53	53
	C	52	54	54
	AVG	51	53	53
DEC	W	46	47	47
	AN	46	48	47
	BN	45	48	47
	D	45	48	47
	C	45	48	48
	AVG	46	47	47

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Hamilton City, Year-Round**

Alternative 8: Sacramento River at Hamilton City			
Month	WYT	EXISTING CONDITIONS	
		vs. A8_LL1	NAA vs. A8_LL1
JAN	W	1.7 (3.7%)	0.1 (0.1%)
	AN	1.8 (4%)	0 (0%)
	BN	2.1 (4.6%)	0.1 (0.2%)
	D	2 (4.6%)	-0.1 (-0.2%)
	C	2.3 (5.2%)	-0.2 (-0.3%)
	AVG	1.9 (4.3%)	0 (0%)
FEB	W	1.7 (3.7%)	0 (0.1%)
	AN	1.8 (3.8%)	0 (0%)
	BN	1.8 (3.9%)	0 (-0.1%)
	D	2 (4.2%)	-0.1 (-0.3%)
	C	2.1 (4.3%)	-0.2 (-0.4%)
	AVG	1.8 (3.9%)	-0.1 (-0.1%)
MAR	W	1.5 (3.1%)	0 (0%)
	AN	1.6 (3.2%)	0 (-0.1%)
	BN	1.6 (3.2%)	-0.2 (-0.5%)
	D	1.4 (2.6%)	-0.5 (-0.9%)
	C	1.8 (3.4%)	-0.2 (-0.3%)
	AVG	1.6 (3.1%)	-0.2 (-0.3%)
APR	W	1.7 (3.1%)	-0.2 (-0.4%)
	AN	1.3 (2.3%)	-0.8 (-1.4%)
	BN	0.7 (1.3%)	-1.3 (-2.2%)
	D	1.2 (2.2%)	-0.9 (-1.5%)
	C	2.1 (3.8%)	0.1 (0.1%)
	AVG	1.4 (2.6%)	-0.6 (-1%)
MAY	W	2.5 (4.2%)	-0.8 (-1.3%)
	AN	0.6 (1%)	-1.4 (-2.3%)
	BN	1.6 (2.6%)	-1 (-1.6%)
	D	2.3 (3.9%)	0.3 (0.5%)
	C	1.9 (3.2%)	-0.1 (-0.2%)
	AVG	1.9 (3.2%)	-0.6 (-1%)
JUN	W	1.1 (1.8%)	-0.9 (-1.4%)
	AN	1.4 (2.2%)	-0.4 (-0.6%)
	BN	2.7 (4.5%)	0.7 (1.1%)
	D	3.3 (5.4%)	1.1 (1.8%)
	C	1.8 (2.9%)	-0.3 (-0.5%)
	AVG	2 (3.3%)	0 (0%)
JUL	W	2.1 (3.5%)	0.9 (1.4%)
	AN	3.2 (5.2%)	1.5 (2.4%)
	BN	3.7 (6%)	1.6 (2.5%)
	D	3.3 (5.5%)	0.8 (1.3%)
	C	4.9 (7.7%)	0.1 (0.1%)
	AVG	3.2 (5.2%)	1 (1.5%)

Alternative 8: Sacramento River at Hamilton City			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	4 (6.5%)	0.8 (1.2%)
	AN	4 (6.5%)	1.9 (3%)
	BN	4.5 (7.3%)	1.5 (2.4%)
	D	3.8 (6.1%)	0.6 (0.9%)
	C	6.5 (10%)	-0.1 (-0.2%)
	AVG	4.4 (7.1%)	0.9 (1.4%)
SEP	W	1.5 (2.4%)	0.4 (0.6%)
	AN	1.8 (2.9%)	1 (1.5%)
	BN	4.9 (7.9%)	1.7 (2.6%)
	D	5.6 (9%)	0.5 (0.7%)
	C	4.9 (7.6%)	-0.1 (-0.1%)
	AVG	3.5 (5.7%)	0.6 (1%)
OCT	W	2.7 (4.8%)	-0.1 (-0.1%)
	AN	2.9 (5.2%)	0.2 (0.4%)
	BN	3.3 (5.9%)	0.4 (0.7%)
	D	2.9 (5.1%)	-0.1 (-0.1%)
	C	3.4 (5.9%)	0.1 (0.2%)
	AVG	3 (5.3%)	0.1 (0.1%)
NOV	W	2.1 (4.3%)	-0.3 (-0.5%)
	AN	2.2 (4.3%)	-0.3 (-0.5%)
	BN	2.4 (4.8%)	-0.2 (-0.4%)
	D	2.3 (4.5%)	-0.2 (-0.3%)
	C	2.3 (4.5%)	-0.3 (-0.5%)
	AVG	2.2 (4.4%)	-0.2 (-0.5%)
DEC	W	1.5 (3.3%)	0.1 (0.2%)
	AN	1.8 (4%)	-0.2 (-0.4%)
	BN	2 (4.4%)	-0.1 (-0.3%)
	D	2 (4.3%)	-0.2 (-0.4%)
	C	2.3 (5%)	0 (0.1%)
	AVG	1.9 (4.1%)	-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.

1 **11D.8.6 Trinity River below Lewiston Reservoir**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
3 **Trinity River below Lewiston Reservoir, Year-Round**

Alternative 8: Trinity River below Lewiston Reservoir				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	41	43	43
	AN	38	41	41
	BN	39	41	41
	D	39	41	41
	C	39	42	41
	AVG	39	42	41
FEB	W	43	45	45
	AN	43	45	45
	BN	42	44	44
	D	42	45	45
	C	43	45	45
	AVG	43	45	45
MAR	W	46	48	47
	AN	47	49	49
	BN	47	48	49
	D	48	50	50
	C	48	50	50
	AVG	47	49	49
APR	W	49	51	51
	AN	50	52	53
	BN	51	53	54
	D	51	53	54
	C	50	52	54
	AVG	50	52	53
MAY	W	46	48	48
	AN	46	48	48
	BN	46	49	49
	D	47	49	50
	C	49	52	53
	AVG	47	49	49
JUN	W	48	51	50
	AN	51	52	51
	BN	52	53	53
	D	52	54	55
	C	56	59	58
	AVG	51	53	53
JUL	W	51	55	53
	AN	52	54	53
	BN	52	55	54
	D	51	54	53
	C	53	60	58
	AVG	51	55	54

Alternative 8: Trinity River below Lewiston Reservoir				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LLT
AUG	W	52	54	53
	AN	51	53	53
	BN	52	55	55
	D	50	54	54
	C	54	63	63
	AVG	52	56	55
SEP	W	49	51	52
	AN	50	51	52
	BN	51	55	55
	D	50	56	55
	C	57	62	62
	AVG	51	54	54
OCT	W	48	51	51
	AN	49	52	51
	BN	50	53	53
	D	50	52	52
	C	51	56	55
	AVG	49	52	52
NOV	W	44	47	47
	AN	45	47	47
	BN	45	47	47
	D	44	47	47
	C	46	48	48
	AVG	45	47	47
DEC	W	41	43	43
	AN	39	43	42
	BN	40	42	42
	D	40	42	42
	C	39	41	41
	AVG	40	42	42

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River below Lewiston Reservoir, Year-Round**

Alternative 8: Trinity River below Lewiston Reservoir			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
JAN	W	2.2 (5.5%)	0.2 (0.4%)
	AN	2.3 (6%)	-0.1 (-0.3%)
	BN	1.9 (4.9%)	-0.2 (-0.4%)
	D	1.9 (5%)	-0.8 (-1.9%)
	C	1.3 (3.4%)	-1 (-2.3%)
	AVG	2 (5%)	-0.3 (-0.7%)
FEB	W	2.4 (5.5%)	0 (0%)
	AN	2.3 (5.3%)	0 (0%)
	BN	2.2 (5.2%)	0 (0.1%)
	D	2.4 (5.8%)	0.2 (0.4%)
	C	2.3 (5.4%)	0.1 (0.3%)
	AVG	2.3 (5.5%)	0.1 (0.1%)
MAR	W	1.7 (3.8%)	-0.3 (-0.5%)
	AN	1.8 (3.8%)	0.1 (0.2%)
	BN	2.4 (5.2%)	0.6 (1.3%)
	D	1.7 (3.5%)	0.2 (0.4%)
	C	2.4 (5.1%)	0.4 (0.7%)
	AVG	2 (4.2%)	0.1 (0.3%)
APR	W	2.2 (4.4%)	0.7 (1.3%)
	AN	3 (6%)	1 (2%)
	BN	2.9 (5.8%)	0.4 (0.8%)
	D	2.6 (5%)	0.3 (0.6%)
	C	4.2 (8.4%)	2.1 (4%)
	AVG	2.8 (5.6%)	0.8 (1.5%)
MAY	W	2.5 (5.4%)	0 (0.1%)
	AN	2.3 (5%)	0 (0%)
	BN	2.3 (4.9%)	0.1 (0.1%)
	D	2.8 (6.1%)	0.3 (0.6%)
	C	3.4 (6.8%)	0.2 (0.4%)
	AVG	2.6 (5.6%)	0.1 (0.2%)
JUN	W	1.7 (3.5%)	-0.6 (-1.1%)
	AN	0.4 (0.8%)	-0.7 (-1.4%)
	BN	1.2 (2.3%)	-0.6 (-1.2%)
	D	2.7 (5.1%)	0.4 (0.7%)
	C	2 (3.6%)	-1.7 (-2.9%)
	AVG	1.7 (3.3%)	-0.6 (-1%)
JUL	W	2.1 (4.1%)	-1.7 (-3.1%)
	AN	1.8 (3.4%)	-0.2 (-0.5%)
	BN	2.2 (4.2%)	-1.1 (-1.9%)
	D	2.5 (5%)	-0.1 (-0.2%)
	C	5.3 (10%)	-1.6 (-2.7%)
	AVG	2.6 (5.1%)	-1 (-1.9%)

Alternative 8: Trinity River below Lewiston Reservoir			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	0.7 (1.3%)	-1.4 (-2.6%)
	AN	1.7 (3.4%)	-0.5 (-0.9%)
	BN	2.8 (5.4%)	-0.2 (-0.3%)
	D	3.6 (7.3%)	-0.4 (-0.8%)
	C	9.6 (17.8%)	0.1 (0.2%)
	AVG	3.2 (6.1%)	-0.6 (-1.1%)
SEP	W	2.5 (5.1%)	0.6 (1.1%)
	AN	2.5 (5.1%)	0.8 (1.6%)
	BN	3.6 (7%)	0.1 (0.1%)
	D	4.5 (9%)	-1.3 (-2.4%)
	C	5 (8.9%)	-0.7 (-1.1%)
	AVG	3.5 (6.9%)	-0.1 (-0.2%)
OCT	W	3.3 (6.8%)	0 (0.1%)
	AN	2.1 (4.2%)	-0.3 (-0.5%)
	BN	3 (6%)	0.1 (0.2%)
	D	2.3 (4.6%)	0 (0.1%)
	C	3.6 (7.1%)	-0.8 (-1.4%)
	AVG	2.9 (5.9%)	-0.1 (-0.2%)
NOV	W	2.3 (5.2%)	-0.3 (-0.7%)
	AN	2.3 (5.2%)	0.1 (0.2%)
	BN	2.6 (5.9%)	0.1 (0.2%)
	D	2.4 (5.4%)	-0.3 (-0.7%)
	C	2.2 (4.8%)	0.2 (0.3%)
	AVG	2.4 (5.3%)	-0.1 (-0.3%)
DEC	W	1.8 (4.4%)	-0.3 (-0.6%)
	AN	2.8 (7.3%)	-0.8 (-1.8%)
	BN	2.7 (6.8%)	0.2 (0.5%)
	D	1.9 (4.8%)	0.1 (0.2%)
	C	1.5 (4%)	-0.2 (-0.5%)
	AVG	2.1 (5.2%)	-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.

1 **11D.8.7 Trinity River at Douglas City**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
3 **Trinity River at Douglas City, Year-Round**

Alternative 8: Trinity River at Douglas City				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	40	42	42
	AN	39	40	40
	BN	38	40	40
	D	38	40	40
	C	39	41	40
	AVG	39	41	41
FEB	W	43	45	45
	AN	43	45	45
	BN	42	44	44
	D	43	44	44
	C	43	45	45
	AVG	43	45	45
MAR	W	46	47	47
	AN	47	48	48
	BN	47	48	48
	D	48	49	49
	C	48	49	50
	AVG	47	48	48
APR	W	51	52	52
	AN	52	53	54
	BN	52	54	54
	D	53	54	54
	C	52	54	55
	AVG	52	53	54
MAY	W	48	50	50
	AN	48	50	50
	BN	49	51	51
	D	49	51	52
	C	52	55	55
	AVG	49	51	51
JUN	W	51	54	53
	AN	54	55	54
	BN	55	57	57
	D	57	59	60
	C	60	63	62
	AVG	55	57	57
JUL	W	57	61	60
	AN	58	60	60
	BN	59	62	61
	D	59	62	62
	C	62	67	66
	AVG	59	62	61

Alternative 8: Trinity River at Douglas City				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LLT
AUG	W	60	62	62
	AN	59	61	61
	BN	60	63	63
	D	58	62	62
	C	61	67	67
	AVG	60	63	63
SEP	W	55	57	58
	AN	55	57	58
	BN	56	59	59
	D	55	60	59
	C	59	64	64
	AVG	56	59	59
OCT	W	50	53	53
	AN	51	53	53
	BN	52	54	54
	D	51	53	53
	C	53	56	56
	AVG	51	54	54
NOV	W	44	46	46
	AN	45	47	47
	BN	45	47	47
	D	44	46	46
	C	46	47	47
	AVG	44	47	46
DEC	W	41	43	43
	AN	40	42	42
	BN	39	42	42
	D	40	42	42
	C	39	41	41
	AVG	40	42	42

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River at Douglas City, Year-Round**

Alternative 8: Trinity River at Douglas City			
Month	WYT	EXISTING CONDITIONS	
		vs. A8_LLT	NAA vs. A8_LLT
JAN	W	1.7 (4.2%)	0.1 (0.2%)
	AN	1.5 (4%)	-0.1 (-0.2%)
	BN	1.4 (3.7%)	-0.1 (-0.1%)
	D	1.8 (4.6%)	-0.4 (-1%)
	C	1.6 (4.1%)	-0.5 (-1.2%)
	AVG	1.6 (4.1%)	-0.2 (-0.4%)
FEB	W	1.6 (3.7%)	0 (0%)
	AN	1.5 (3.5%)	0 (0%)
	BN	1.6 (3.9%)	0 (0.1%)
	D	1.7 (3.9%)	0.1 (0.2%)
	C	1.9 (4.4%)	0.1 (0.2%)
	AVG	1.7 (3.9%)	0 (0.1%)
MAR	W	1.1 (2.4%)	-0.1 (-0.2%)
	AN	1 (2.2%)	0 (0.1%)
	BN	1.3 (2.9%)	0.2 (0.4%)
	D	1.1 (2.3%)	0.1 (0.1%)
	C	1.7 (3.5%)	0.2 (0.3%)
	AVG	1.2 (2.6%)	0.1 (0.1%)
APR	W	1.5 (3%)	0.3 (0.5%)
	AN	1.9 (3.7%)	0.5 (1%)
	BN	1.9 (3.6%)	0.2 (0.4%)
	D	1.8 (3.5%)	0.1 (0.2%)
	C	3 (5.7%)	1.2 (2.2%)
	AVG	1.9 (3.7%)	0.4 (0.8%)
MAY	W	2.4 (4.9%)	0 (0.1%)
	AN	2.3 (4.7%)	0 (0%)
	BN	2.2 (4.4%)	0 (0.1%)
	D	2.7 (5.5%)	0.2 (0.4%)
	C	3.2 (6.1%)	0.2 (0.3%)
	AVG	2.5 (5.1%)	0.1 (0.2%)
JUN	W	1.7 (3.3%)	-0.4 (-0.8%)
	AN	0.4 (0.8%)	-0.6 (-1%)
	BN	1.4 (2.5%)	-0.5 (-0.8%)
	D	2.5 (4.5%)	0.2 (0.3%)
	C	2.1 (3.6%)	-1 (-1.6%)
	AVG	1.7 (3.1%)	-0.4 (-0.7%)
JUL	W	2.6 (4.6%)	-1.1 (-1.9%)
	AN	2.1 (3.6%)	-0.2 (-0.3%)
	BN	2 (3.3%)	-0.7 (-1.1%)
	D	2.6 (4.3%)	-0.1 (-0.2%)
	C	4.1 (6.6%)	-0.5 (-0.8%)
	AVG	2.6 (4.5%)	-0.6 (-1%)

Alternative 8: Trinity River at Douglas City			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
AUG	W	1.8 (3%)	-0.7 (-1.2%)
	AN	2.4 (4%)	-0.3 (-0.4%)
	BN	3 (4.9%)	-0.1 (-0.1%)
	D	3.5 (5.9%)	-0.2 (-0.4%)
	C	6.3 (10.4%)	0 (0.1%)
	AVG	3.1 (5.2%)	-0.3 (-0.5%)
SEP	W	2.8 (5%)	0.3 (0.5%)
	AN	2.8 (5.1%)	0.5 (0.8%)
	BN	3.4 (6%)	0 (0.1%)
	D	3.9 (7.2%)	-0.7 (-1.3%)
	C	5.3 (9%)	0 (0%)
	AVG	3.5 (6.3%)	0 (0%)
OCT	W	2.6 (5.1%)	0 (0%)
	AN	1.8 (3.5%)	-0.1 (-0.2%)
	BN	2.4 (4.7%)	0.1 (0.1%)
	D	2 (3.9%)	0 (0%)
	C	3.6 (6.8%)	0.5 (0.9%)
	AVG	2.5 (4.8%)	0.1 (0.1%)
NOV	W	1.9 (4.4%)	-0.2 (-0.3%)
	AN	2 (4.5%)	0 (0.1%)
	BN	2.3 (5.1%)	0.1 (0.1%)
	D	2 (4.6%)	-0.2 (-0.4%)
	C	1.7 (3.8%)	-0.1 (-0.3%)
	AVG	2 (4.5%)	-0.1 (-0.2%)
DEC	W	1.4 (3.3%)	0 (-0.1%)
	AN	2 (5.1%)	-0.4 (-0.9%)
	BN	2.2 (5.7%)	0.1 (0.3%)
	D	1.8 (4.5%)	0.1 (0.1%)
	C	2.4 (6.1%)	0.2 (0.4%)
	AVG	1.9 (4.6%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.8.8 Trinity River below North Fork**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
3 **Trinity River below North Fork, Year-Round**

Alternative 8: Trinity River below North Fork				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	40	41	41
	AN	38	39	39
	BN	38	39	39
	D	38	39	39
	C	38	40	40
	AVG	39	40	40
FEB	W	43	44	44
	AN	43	44	44
	BN	43	44	44
	D	43	44	44
	C	43	45	45
	AVG	43	44	44
MAR	W	46	47	47
	AN	46	47	47
	BN	46	47	47
	D	47	48	48
	C	48	49	49
	AVG	47	47	47
APR	W	53	53	53
	AN	54	54	55
	BN	54	55	55
	D	54	55	55
	C	54	55	56
	AVG	53	54	55
MAY	W	50	52	52
	AN	50	52	52
	BN	51	53	53
	D	51	54	54
	C	54	57	57
	AVG	51	53	53
JUN	W	55	57	57
	AN	58	58	58
	BN	60	61	61
	D	62	64	64
	C	63	66	65
	AVG	59	61	61
JUL	W	63	66	66
	AN	63	66	66
	BN	65	67	67
	D	65	68	68
	C	68	71	71
	AVG	65	67	67

Alternative 8: Trinity River below North Fork				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LLT
AUG	W	65	68	67
	AN	64	67	67
	BN	65	68	68
	D	64	67	67
	C	65	69	69
	AVG	65	68	67
SEP	W	59	62	62
	AN	59	61	61
	BN	59	62	63
	D	58	62	62
	C	61	64	64
	AVG	59	62	62
OCT	W	53	55	55
	AN	53	55	55
	BN	54	56	56
	D	53	54	54
	C	54	56	57
	AVG	53	55	55
NOV	W	44	45	45
	AN	44	46	46
	BN	44	46	46
	D	44	45	45
	C	45	47	47
	AVG	44	46	46
DEC	W	41	42	42
	AN	40	42	41
	BN	39	41	41
	D	40	41	41
	C	38	40	40
	AVG	40	41	41

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River below North Fork, Year-Round**

Alternative 8: Trinity River below North Fork			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
JAN	W	1.2 (3.1%)	0.1 (0.2%)
	AN	1 (2.7%)	0 (-0.1%)
	BN	1 (2.7%)	0 (0%)
	D	1.4 (3.8%)	-0.2 (-0.5%)
	C	1.5 (3.9%)	-0.2 (-0.5%)
	AVG	1.2 (3.2%)	0 (-0.1%)
FEB	W	1.1 (2.6%)	0 (0.1%)
	AN	1 (2.4%)	0 (0%)
	BN	1.1 (2.7%)	0 (0%)
	D	1.1 (2.5%)	0 (0.1%)
	C	1.4 (3.3%)	0 (0%)
	AVG	1.1 (2.7%)	0 (0.1%)
MAR	W	0.7 (1.6%)	0 (0%)
	AN	0.6 (1.4%)	0 (0%)
	BN	0.8 (1.7%)	0 (0.1%)
	D	0.8 (1.6%)	0 (0.1%)
	C	1.1 (2.3%)	0 (0.1%)
	AVG	0.8 (1.7%)	0 (0%)
APR	W	0.9 (1.7%)	0.1 (0.2%)
	AN	1.1 (2.1%)	0.2 (0.4%)
	BN	1.1 (2.1%)	0.1 (0.1%)
	D	1.2 (2.3%)	0.1 (0.1%)
	C	2 (3.6%)	0.5 (1%)
	AVG	1.2 (2.3%)	0.2 (0.3%)
MAY	W	2.1 (4.2%)	0 (0.1%)
	AN	2.1 (4.1%)	0 (0%)
	BN	1.9 (3.8%)	0 (0%)
	D	2.4 (4.6%)	0.2 (0.3%)
	C	2.8 (5.1%)	0.1 (0.1%)
	AVG	2.2 (4.4%)	0.1 (0.1%)
JUN	W	1.6 (2.8%)	-0.3 (-0.5%)
	AN	0.3 (0.6%)	-0.4 (-0.7%)
	BN	1.4 (2.4%)	-0.3 (-0.5%)
	D	2.2 (3.7%)	0 (0.1%)
	C	2 (3.2%)	-0.5 (-0.8%)
	AVG	1.6 (2.7%)	-0.3 (-0.5%)
JUL	W	2.7 (4.4%)	-0.7 (-1%)
	AN	2.1 (3.3%)	-0.1 (-0.2%)
	BN	1.8 (2.8%)	-0.4 (-0.6%)
	D	2.4 (3.7%)	-0.1 (-0.2%)
	C	3.1 (4.6%)	-0.2 (-0.3%)
	AVG	2.5 (3.8%)	-0.4 (-0.5%)

Alternative 8: Trinity River below North Fork			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
AUG	W	2.2 (3.4%)	-0.3 (-0.5%)
	AN	2.5 (3.9%)	-0.1 (-0.2%)
	BN	2.8 (4.3%)	-0.1 (-0.1%)
	D	3.2 (4.9%)	-0.1 (-0.1%)
	C	3.8 (5.8%)	-0.1 (-0.2%)
	AVG	2.8 (4.3%)	-0.2 (-0.2%)
SEP	W	2.7 (4.6%)	0.2 (0.3%)
	AN	2.7 (4.6%)	0.2 (0.4%)
	BN	3.1 (5.1%)	0 (0%)
	D	3.3 (5.7%)	-0.4 (-0.6%)
	C	3.1 (5.1%)	0.1 (0.1%)
	AVG	3 (5%)	0 (0%)
OCT	W	2 (3.7%)	0 (0%)
	AN	1.8 (3.3%)	-0.1 (-0.2%)
	BN	2 (3.7%)	0 (0.1%)
	D	1.8 (3.4%)	0 (0%)
	C	2.9 (5.4%)	0.3 (0.5%)
	AVG	2 (3.9%)	0 (0.1%)
NOV	W	1.5 (3.5%)	-0.1 (-0.2%)
	AN	1.5 (3.4%)	0 (0%)
	BN	1.9 (4.2%)	0 (0.1%)
	D	1.6 (3.7%)	-0.1 (-0.2%)
	C	1.5 (3.4%)	-0.2 (-0.3%)
	AVG	1.6 (3.6%)	-0.1 (-0.2%)
DEC	W	1 (2.4%)	0.1 (0.1%)
	AN	1.4 (3.5%)	-0.1 (-0.4%)
	BN	1.7 (4.4%)	0.1 (0.2%)
	D	1.5 (3.7%)	0 (0.1%)
	C	1.9 (5%)	0 (0.1%)
	AVG	1.4 (3.6%)	0 (0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.8.9 Feather River at Fish Barrier Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
3 **Feather River at Fish Barrier Dam, Year-Round**

Alternative 8: Feather River at Fish Barrier Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	48	51	51
	AN	47	50	51
	BN	48	51	51
	D	47	51	51
	C	48	51	51
	AVG	48	51	51
FEB	W	48	51	51
	AN	48	51	51
	BN	48	51	51
	D	49	52	52
	C	49	53	53
	AVG	48	51	51
MAR	W	49	51	51
	AN	49	51	51
	BN	50	53	52
	D	51	53	52
	C	51	54	53
	AVG	50	52	52
APR	W	51	52	52
	AN	51	53	52
	BN	52	54	53
	D	52	54	53
	C	52	54	54
	AVG	51	53	53
MAY	W	55	56	55
	AN	56	56	55
	BN	56	56	56
	D	56	56	56
	C	56	57	56
	AVG	55	56	55
JUN	W	57	58	58
	AN	58	58	59
	BN	58	58	59
	D	58	58	59
	C	58	59	59
	AVG	58	58	59
JUL	W	61	61	63
	AN	61	61	62
	BN	61	61	63
	D	61	61	63
	C	61	62	64
	AVG	61	61	63

Alternative 8: Feather River at Fish Barrier Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LLT
AUG	W	61	61	62
	AN	60	60	62
	BN	60	60	63
	D	60	62	63
	C	62	64	65
	AVG	61	61	63
SEP	W	56	55	56
	AN	56	55	58
	BN	56	57	62
	D	56	61	63
	C	58	63	64
	AVG	56	58	60
OCT	W	54	58	57
	AN	55	58	60
	BN	54	58	60
	D	54	59	58
	C	54	58	61
	AVG	54	58	59
NOV	W	52	58	57
	AN	53	58	58
	BN	53	58	59
	D	52	59	58
	C	53	58	59
	AVG	53	58	58
DEC	W	49	53	54
	AN	49	55	54
	BN	49	54	54
	D	49	54	54
	C	49	54	53
	AVG	49	54	54

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Fish Barrier Dam, Year-Round**

Alternative 8: Feather River at Fish Barrier Dam			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
JAN	W	3.4 (7%)	0.6 (1.2%)
	AN	3.7 (7.7%)	0.6 (1.2%)
	BN	3.8 (7.9%)	0.7 (1.5%)
	D	4 (8.4%)	0.6 (1.2%)
	C	3.9 (8.1%)	0 (0.1%)
	AVG	3.7 (7.7%)	0.5 (1.1%)
FEB	W	2.9 (6.1%)	0.3 (0.7%)
	AN	2.6 (5.4%)	0 (0.1%)
	BN	3 (6.3%)	0 (0.1%)
	D	2.8 (5.8%)	-0.1 (-0.2%)
	C	3.3 (6.8%)	-0.1 (-0.2%)
	AVG	2.9 (6.1%)	0.1 (0.2%)
MAR	W	2.8 (5.8%)	0.3 (0.7%)
	AN	2.4 (4.9%)	0.2 (0.3%)
	BN	2.1 (4.2%)	-1.1 (-2.1%)
	D	1.3 (2.5%)	-1.1 (-2%)
	C	1.8 (3.6%)	-1.3 (-2.3%)
	AVG	2.2 (4.3%)	-0.5 (-0.9%)
APR	W	1.6 (3.2%)	-0.2 (-0.4%)
	AN	0.9 (1.7%)	-0.8 (-1.6%)
	BN	0.7 (1.3%)	-1 (-1.9%)
	D	1.2 (2.3%)	-0.7 (-1.4%)
	C	2.4 (4.7%)	-0.1 (-0.2%)
	AVG	1.4 (2.7%)	-0.5 (-1%)
MAY	W	-0.1 (-0.1%)	-0.8 (-1.4%)
	AN	-0.6 (-1.1%)	-1.1 (-2%)
	BN	-0.4 (-0.7%)	-0.7 (-1.3%)
	D	0.3 (0.5%)	0 (0%)
	C	0.7 (1.2%)	-0.2 (-0.3%)
	AVG	0 (0%)	-0.6 (-1%)
JUN	W	0.6 (1.1%)	0.2 (0.3%)
	AN	0.8 (1.4%)	0.5 (0.8%)
	BN	0.9 (1.5%)	0.6 (1.1%)
	D	1.4 (2.4%)	0.8 (1.4%)
	C	1.4 (2.4%)	0.2 (0.4%)
	AVG	1 (1.7%)	0.4 (0.8%)
JUL	W	1.4 (2.2%)	1.3 (2%)
	AN	1.7 (2.7%)	1.4 (2.2%)
	BN	2.2 (3.6%)	1.8 (2.9%)
	D	2.4 (3.9%)	1.8 (3%)
	C	3.1 (5%)	1.6 (2.6%)
	AVG	2 (3.3%)	1.5 (2.5%)

Alternative 8: Feather River at Fish Barrier Dam			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
AUG	W	1.3 (2.2%)	1.6 (2.6%)
	AN	1.7 (2.8%)	1.5 (2.4%)
	BN	2.9 (4.8%)	2.3 (3.8%)
	D	3.5 (5.9%)	1.7 (2.7%)
	C	3 (4.8%)	0.5 (0.8%)
	AVG	2.4 (3.9%)	1.6 (2.5%)
SEP	W	0.2 (0.4%)	0.8 (1.4%)
	AN	2.1 (3.7%)	2.6 (4.6%)
	BN	6.5 (11.7%)	5 (8.7%)
	D	7.2 (13%)	2.3 (3.8%)
	C	6.2 (10.6%)	0.7 (1.2%)
	AVG	4 (7.1%)	2.1 (3.6%)
OCT	W	3.7 (6.9%)	-0.9 (-1.5%)
	AN	4.7 (8.6%)	1.3 (2.3%)
	BN	6.3 (11.6%)	2 (3.4%)
	D	4.7 (8.7%)	-1 (-1.7%)
	C	6.5 (12%)	2.7 (4.7%)
	AVG	4.9 (9.1%)	0.4 (0.7%)
NOV	W	4.3 (8.2%)	-1.6 (-2.7%)
	AN	5.3 (10%)	0.4 (0.7%)
	BN	6 (11.5%)	0.6 (1%)
	D	5.2 (9.9%)	-1.1 (-1.9%)
	C	6.2 (11.8%)	1 (1.7%)
	AVG	5.2 (9.9%)	-0.5 (-0.8%)
DEC	W	4.7 (9.6%)	0.2 (0.4%)
	AN	5.1 (10.3%)	-0.6 (-1%)
	BN	5.6 (11.5%)	0 (0.1%)
	D	4.6 (9.4%)	-0.5 (-0.9%)
	C	4.4 (8.9%)	-0.4 (-0.7%)
	AVG	4.8 (9.9%)	-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.

1 **11D.8.10 Feather River Low-Flow Channel (above Thermalito**
2 **Afterbay)**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
4 **Feather River Low-Flow Channel (above Thermalito Afterbay), Year-Round**

Alternative 8: Feather River Low-Flow Channel (above Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	47	50	51
	AN	47	50	51
	BN	47	50	51
	D	47	50	51
	C	47	51	51
	AVG	47	50	51
FEB	W	49	51	52
	AN	49	51	51
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	50	53	53
	AN	51	53	53
	BN	51	54	54
	D	52	55	54
	C	53	56	55
	AVG	51	54	54
APR	W	53	55	55
	AN	55	57	56
	BN	55	57	56
	D	55	57	57
	C	55	57	57
	AVG	55	57	56
MAY	W	59	61	60
	AN	60	62	61
	BN	60	61	61
	D	60	61	61
	C	60	62	61
	AVG	60	61	61
JUN	W	63	65	65
	AN	64	66	66
	BN	64	65	66
	D	64	66	67
	C	63	65	66
	AVG	64	65	66

Alternative 8: Feather River Low-Flow Channel (above Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LLТ
JUL	W	68	69	70
	AN	67	69	70
	BN	67	69	70
	D	67	69	70
	C	67	70	71
	AVG	67	69	70
AUG	W	66	68	69
	AN	65	67	68
	BN	66	68	69
	D	65	68	69
	C	67	70	70
	AVG	66	68	69
SEP	W	60	61	62
	AN	60	61	63
	BN	60	62	66
	D	60	65	66
	C	61	66	67
	AVG	60	63	64
OCT	W	55	60	59
	AN	57	60	61
	BN	56	60	62
	D	56	61	60
	C	56	60	62
	AVG	56	60	60
NOV	W	52	58	56
	AN	53	58	58
	BN	53	58	58
	D	53	58	57
	C	53	58	59
	AVG	53	58	58
DEC	W	48	53	53
	AN	49	54	53
	BN	48	53	53
	D	48	53	53
	C	48	53	52
	AVG	48	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather Low-Flow Channel (above Thermalito Afterbay), Year-Round**

Alternative 8: Feather River Low-Flow Channel (above Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
JAN	W	3.3 (7%)	0.5 (1%)
	AN	3.5 (7.5%)	0.5 (0.9%)
	BN	3.6 (7.6%)	0.6 (1.2%)
	D	3.8 (8%)	0.5 (1%)
	C	3.6 (7.8%)	0 (0%)
	AVG	3.5 (7.5%)	0.4 (0.9%)
FEB	W	2.9 (6%)	0.3 (0.5%)
	AN	2.6 (5.4%)	0 (0.1%)
	BN	3 (6.1%)	0 (0.1%)
	D	2.8 (5.6%)	-0.1 (-0.2%)
	C	3.3 (6.6%)	-0.1 (-0.2%)
	AVG	2.9 (5.9%)	0.1 (0.1%)
MAR	W	2.7 (5.4%)	0.2 (0.5%)
	AN	2.4 (4.7%)	0.1 (0.2%)
	BN	2.2 (4.2%)	-0.9 (-1.6%)
	D	1.6 (3%)	-0.8 (-1.5%)
	C	2 (3.9%)	-0.9 (-1.7%)
	AVG	2.2 (4.3%)	-0.4 (-0.7%)
APR	W	1.7 (3.2%)	-0.2 (-0.3%)
	AN	1.3 (2.4%)	-0.6 (-1.1%)
	BN	1.1 (2.1%)	-0.7 (-1.3%)
	D	1.6 (2.9%)	-0.5 (-1%)
	C	2.5 (4.5%)	-0.1 (-0.1%)
	AVG	1.7 (3%)	-0.4 (-0.7%)
MAY	W	0.9 (1.5%)	-0.5 (-0.9%)
	AN	0.6 (1%)	-0.7 (-1.2%)
	BN	0.7 (1.1%)	-0.5 (-0.8%)
	D	1.2 (1.9%)	0 (0%)
	C	1.4 (2.4%)	-0.1 (-0.2%)
	AVG	1 (1.6%)	-0.4 (-0.6%)
JUN	W	1.7 (2.7%)	0.1 (0.2%)
	AN	2 (3.2%)	0.3 (0.4%)
	BN	2 (3.1%)	0.4 (0.6%)
	D	2.4 (3.7%)	0.5 (0.8%)
	C	2.3 (3.6%)	0.2 (0.2%)
	AVG	2 (3.2%)	0.3 (0.4%)
JUL	W	2.4 (3.5%)	0.8 (1.1%)
	AN	2.6 (3.9%)	0.9 (1.3%)
	BN	2.9 (4.3%)	1.1 (1.6%)
	D	3.1 (4.6%)	1.1 (1.7%)
	C	3.6 (5.4%)	1 (1.4%)
	AVG	2.8 (4.2%)	1 (1.4%)

Alternative 8: Feather River Low-Flow Channel (above Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
AUG	W	2.5 (3.8%)	1 (1.5%)
	AN	2.7 (4.1%)	1 (1.4%)
	BN	3.5 (5.3%)	1.5 (2.2%)
	D	3.9 (6%)	1.1 (1.6%)
	C	3.5 (5.3%)	0.3 (0.5%)
	AVG	3.2 (4.8%)	1 (1.5%)
SEP	W	1.4 (2.3%)	0.6 (0.9%)
	AN	2.7 (4.5%)	1.9 (3.1%)
	BN	5.9 (9.7%)	3.6 (5.7%)
	D	6.5 (10.9%)	1.7 (2.6%)
	C	5.6 (9.1%)	0.5 (0.8%)
	AVG	4.1 (6.8%)	1.5 (2.4%)
OCT	W	3.6 (6.6%)	-0.7 (-1.1%)
	AN	4.4 (7.8%)	1.1 (1.8%)
	BN	5.8 (10.3%)	1.6 (2.7%)
	D	4.4 (7.9%)	-0.8 (-1.3%)
	C	6 (10.6%)	2.2 (3.7%)
	AVG	4.6 (8.3%)	0.4 (0.6%)
NOV	W	4.1 (7.8%)	-1.3 (-2.3%)
	AN	4.9 (9.3%)	0.3 (0.5%)
	BN	5.5 (10.5%)	0.5 (0.9%)
	D	4.8 (9.2%)	-0.9 (-1.6%)
	C	5.7 (10.8%)	0.8 (1.4%)
	AVG	4.9 (9.2%)	-0.4 (-0.7%)
DEC	W	4.4 (9.1%)	0.2 (0.3%)
	AN	4.7 (9.7%)	-0.5 (-0.9%)
	BN	5.1 (10.6%)	0 (0.1%)
	D	4.3 (9%)	-0.4 (-0.8%)
	C	4.1 (8.6%)	-0.3 (-0.6%)
	AVG	4.5 (9.3%)	-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.

1 **11D.8.11 Feather River High-Flow Channel (below Thermalito**
2 **Afterbay)**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
4 **Feather River High-Flow Channel (below Thermalito Afterbay), Year-Round**

Alternative 8: Feather River High-Flow Channel (below Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LLТ
JAN	W	47	50	50
	AN	47	50	50
	BN	46	49	50
	D	46	49	49
	C	46	50	50
	AVG	47	49	50
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	52	52
MAR	W	51	54	54
	AN	52	54	54
	BN	53	56	55
	D	54	57	56
	C	54	57	57
	AVG	53	55	55
APR	W	55	57	56
	AN	57	59	57
	BN	58	59	58
	D	57	60	59
	C	57	60	61
	AVG	57	59	58
MAY	W	61	63	61
	AN	63	64	64
	BN	63	65	64
	D	63	65	65
	C	63	66	66
	AVG	62	64	64
JUN	W	66	68	68
	AN	67	70	71
	BN	67	70	71
	D	68	71	72
	C	68	71	71
	AVG	67	70	70

Alternative 8: Feather River High-Flow Channel (below Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LLТ
JUL	W	70	70	74
	AN	68	69	74
	BN	68	70	75
	D	68	70	75
	C	70	74	77
	AVG	69	71	75
AUG	W	70	70	74
	AN	67	69	73
	BN	68	70	74
	D	67	71	73
	C	70	74	75
	AVG	69	71	74
SEP	W	64	63	67
	AN	64	64	68
	BN	65	68	68
	D	64	67	68
	C	64	69	69
	AVG	64	66	68
OCT	W	58	62	62
	AN	60	63	64
	BN	59	63	64
	D	58	63	63
	C	59	63	64
	AVG	59	63	63
NOV	W	53	57	56
	AN	54	58	58
	BN	53	57	58
	D	53	57	57
	C	53	57	58
	AVG	53	57	57
DEC	W	48	51	51
	AN	48	52	52
	BN	47	51	51
	D	47	51	51
	C	47	50	51
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
 2 **Water Temperatures in the Feather High-Flow Channel (below Thermalito Afterbay), Year-Round**

Alternative 8: Feather River High-Flow Channel (below Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
JAN	W	3.3 (7%)	0.6 (1.2%)
	AN	3.3 (7.1%)	0.4 (0.8%)
	BN	3.5 (7.6%)	0.8 (1.6%)
	D	3.2 (6.9%)	0.3 (0.6%)
	C	3.5 (7.5%)	0.2 (0.4%)
	AVG	3.3 (7.2%)	0.5 (1%)
FEB	W	2.8 (5.7%)	0.1 (0.2%)
	AN	2.6 (5.2%)	-0.5 (-1%)
	BN	2.7 (5.4%)	-0.3 (-0.5%)
	D	2.5 (5%)	-0.3 (-0.5%)
	C	3.1 (6%)	0 (-0.1%)
	AVG	2.7 (5.5%)	-0.1 (-0.3%)
MAR	W	2.3 (4.5%)	0 (0%)
	AN	1.2 (2.3%)	-0.5 (-0.9%)
	BN	1.8 (3.4%)	-1.2 (-2.1%)
	D	1.4 (2.6%)	-1.1 (-1.9%)
	C	3.2 (5.9%)	0.2 (0.3%)
	AVG	2 (3.8%)	-0.5 (-0.9%)
APR	W	0.5 (1%)	-1.5 (-2.6%)
	AN	-0.1 (-0.2%)	-2.4 (-4%)
	BN	0.1 (0.2%)	-1.6 (-2.7%)
	D	1.7 (3%)	-0.6 (-1%)
	C	3.4 (6%)	0.9 (1.5%)
	AVG	1.1 (1.9%)	-1.1 (-1.8%)
MAY	W	0.9 (1.4%)	-1.9 (-3%)
	AN	1.1 (1.7%)	-0.6 (-0.9%)
	BN	0.9 (1.4%)	-1.2 (-1.9%)
	D	2.3 (3.6%)	0 (-0.1%)
	C	3.1 (4.9%)	0.9 (1.3%)
	AVG	1.5 (2.5%)	-0.8 (-1.2%)
JUN	W	2.8 (4.2%)	0.1 (0.1%)
	AN	3.6 (5.3%)	1 (1.5%)
	BN	3.3 (4.9%)	1 (1.4%)
	D	3.6 (5.3%)	0.7 (1%)
	C	3.5 (5.2%)	0.5 (0.7%)
	AVG	3.3 (4.9%)	0.6 (0.8%)
JUL	W	4.9 (7%)	4.4 (6.3%)
	AN	6.5 (9.5%)	5.1 (7.3%)
	BN	7 (10.3%)	5 (7.2%)
	D	6.9 (10.1%)	4.6 (6.5%)
	C	6.8 (9.8%)	2.6 (3.5%)
	AVG	6.2 (9%)	4.4 (6.2%)

Alternative 8: Feather River High-Flow Channel (below Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	3.8 (5.5%)	3.1 (4.4%)
	AN	5.4 (8%)	3.6 (5.3%)
	BN	5.7 (8.3%)	3.5 (5%)
	D	6.2 (9.3%)	2.3 (3.2%)
	C	5.3 (7.5%)	1.2 (1.6%)
	AVG	5.1 (7.4%)	2.8 (3.9%)
SEP	W	3.1 (4.8%)	3.8 (6%)
	AN	3.7 (5.7%)	4.1 (6.4%)
	BN	3.2 (5%)	0.3 (0.5%)
	D	4.1 (6.3%)	1.5 (2.3%)
	C	5.2 (8%)	0.3 (0.4%)
	AVG	3.7 (5.8%)	2.2 (3.4%)
OCT	W	4 (6.9%)	0.1 (0.1%)
	AN	4.1 (6.9%)	0.7 (1.1%)
	BN	5.1 (8.6%)	1.4 (2.3%)
	D	4.2 (7.3%)	0 (-0.1%)
	C	5.2 (8.8%)	1.4 (2.2%)
	AVG	4.4 (7.6%)	0.6 (0.9%)
NOV	W	3.7 (7.1%)	-0.6 (-1%)
	AN	4.2 (7.8%)	0.2 (0.4%)
	BN	4.8 (9.1%)	0.7 (1.2%)
	D	4.3 (8.2%)	-0.4 (-0.6%)
	C	4.9 (9.1%)	0.8 (1.5%)
	AVG	4.3 (8.1%)	0 (0%)
DEC	W	3.7 (7.9%)	0.3 (0.5%)
	AN	4 (8.3%)	-0.5 (-1%)
	BN	4.4 (9.4%)	0.2 (0.4%)
	D	4 (8.5%)	-0.1 (-0.2%)
	C	4 (8.7%)	0.2 (0.4%)
	AVG	4 (8.4%)	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.

1 **11D.8.12 Feather River at Gridley Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
3 **Feather River at Gridley Dam, Year-Round**

Alternative 8: Feather River at Gridley Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	47	50	50
	AN	47	49	50
	BN	46	49	50
	D	46	48	49
	C	46	49	50
	AVG	46	49	50
FEB	W	49	52	52
	AN	49	52	52
	BN	50	53	52
	D	50	53	53
	C	51	54	54
	AVG	50	53	52
MAR	W	51	54	54
	AN	53	54	54
	BN	54	57	55
	D	55	57	56
	C	54	57	57
	AVG	53	56	55
APR	W	56	58	56
	AN	58	60	57
	BN	59	61	58
	D	59	61	60
	C	58	61	61
	AVG	58	60	58
MAY	W	61	64	62
	AN	64	66	65
	BN	64	66	64
	D	64	66	66
	C	64	67	67
	AVG	63	66	64
JUN	W	67	69	69
	AN	69	71	72
	BN	69	71	72
	D	69	72	73
	C	69	72	72
	AVG	68	71	71
JUL	W	70	71	76
	AN	69	70	76
	BN	69	71	76
	D	69	71	76
	C	71	75	78
	AVG	70	72	76

Alternative 8: Feather River at Gridley Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL
AUG	W	71	71	75
	AN	68	70	74
	BN	69	71	75
	D	68	72	75
	C	71	75	76
	AVG	69	72	75
SEP	W	65	64	68
	AN	65	64	69
	BN	66	69	70
	D	65	68	70
	C	66	70	70
	AVG	65	67	69
OCT	W	59	63	63
	AN	60	63	64
	BN	60	63	65
	D	59	63	63
	C	59	63	64
	AVG	59	63	64
NOV	W	53	57	56
	AN	54	58	58
	BN	53	57	58
	D	53	57	57
	C	54	57	58
	AVG	53	57	57
DEC	W	48	51	51
	AN	47	52	51
	BN	47	51	51
	D	47	51	50
	C	46	50	50
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Gridley Dam, Year-Round**

Alternative 8: Feather River at Gridley Dam			
Month	WYT	EXISTING CONDITIONS	
		vs. A8_LLT	NAA vs. A8_LLT
JAN	W	3.3 (6.9%)	0.6 (1.2%)
	AN	3.3 (7.1%)	0.4 (0.8%)
	BN	3.4 (7.5%)	0.7 (1.5%)
	D	3.1 (6.9%)	0.3 (0.7%)
	C	3.4 (7.4%)	0.2 (0.4%)
	AVG	3.3 (7.1%)	0.5 (1%)
FEB	W	2.8 (5.6%)	0.1 (0.2%)
	AN	2.5 (5.1%)	-0.6 (-1.1%)
	BN	2.6 (5.3%)	-0.4 (-0.7%)
	D	2.4 (4.9%)	-0.3 (-0.6%)
	C	3 (5.9%)	-0.1 (-0.2%)
	AVG	2.7 (5.4%)	-0.2 (-0.4%)
MAR	W	2.3 (4.4%)	0 (0%)
	AN	1.2 (2.3%)	-0.5 (-0.9%)
	BN	1.7 (3.1%)	-1.3 (-2.4%)
	D	1.2 (2.3%)	-1.2 (-2.2%)
	C	2.8 (5.2%)	-0.1 (-0.1%)
	AVG	1.9 (3.5%)	-0.6 (-1.1%)
APR	W	0.4 (0.7%)	-1.6 (-2.8%)
	AN	-0.6 (-1%)	-2.8 (-4.7%)
	BN	-0.5 (-0.9%)	-2.4 (-3.9%)
	D	1 (1.8%)	-1.3 (-2.1%)
	C	3 (5.1%)	0.5 (0.8%)
	AVG	0.6 (1.1%)	-1.5 (-2.6%)
MAY	W	0.7 (1.2%)	-2.3 (-3.5%)
	AN	0.6 (0.9%)	-1.3 (-1.9%)
	BN	0.3 (0.5%)	-1.8 (-2.7%)
	D	1.9 (2.9%)	-0.3 (-0.4%)
	C	2.8 (4.4%)	0.5 (0.8%)
	AVG	1.2 (1.9%)	-1.2 (-1.8%)
JUN	W	2.9 (4.3%)	0.1 (0.1%)
	AN	3.6 (5.3%)	1.1 (1.6%)
	BN	3.4 (4.9%)	1.1 (1.5%)
	D	3.9 (5.6%)	1 (1.4%)
	C	3.5 (5.2%)	0.5 (0.7%)
	AVG	3.4 (5%)	0.7 (0.9%)
JUL	W	5.2 (7.4%)	4.6 (6.5%)
	AN	6.9 (10.1%)	5.4 (7.7%)
	BN	7.6 (11.1%)	5.5 (7.7%)
	D	7.5 (10.8%)	5 (7%)
	C	7 (10%)	2.6 (3.5%)
	AVG	6.6 (9.5%)	4.7 (6.5%)

Alternative 8: Feather River at Gridley Dam			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	4.2 (5.9%)	3.5 (5%)
	AN	5.8 (8.5%)	3.9 (5.6%)
	BN	6.3 (9.1%)	4 (5.6%)
	D	6.9 (10.2%)	2.6 (3.6%)
	C	5.1 (7.2%)	1 (1.3%)
	AVG	5.5 (7.9%)	3.1 (4.3%)
SEP	W	2.7 (4.2%)	4 (6.2%)
	AN	3.7 (5.6%)	4.5 (6.9%)
	BN	3.8 (5.8%)	1 (1.4%)
	D	4.5 (6.9%)	1.2 (1.7%)
	C	4.9 (7.5%)	0.2 (0.3%)
	AVG	3.8 (5.8%)	2.3 (3.5%)
OCT	W	4.1 (6.9%)	0.2 (0.3%)
	AN	4 (6.7%)	0.7 (1.1%)
	BN	5 (8.4%)	1.4 (2.2%)
	D	4.2 (7.1%)	0 (0.1%)
	C	5 (8.5%)	1.3 (2%)
	AVG	4.4 (7.4%)	0.6 (0.9%)
NOV	W	3.7 (6.9%)	-0.5 (-0.9%)
	AN	4.1 (7.6%)	0.2 (0.3%)
	BN	4.6 (8.7%)	0.6 (1%)
	D	4.2 (7.9%)	-0.3 (-0.6%)
	C	4.7 (8.7%)	0.7 (1.2%)
	AVG	4.1 (7.8%)	0 (0%)
DEC	W	3.6 (7.6%)	0.2 (0.5%)
	AN	3.8 (8%)	-0.6 (-1.1%)
	BN	4.2 (9%)	0.1 (0.2%)
	D	3.8 (8.2%)	-0.1 (-0.3%)
	C	3.9 (8.3%)	0.1 (0.3%)
	AVG	3.8 (8.2%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.8.13 Feather River at Honcut Creek**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
3 **Feather River at Honcut Creek, Year-Round**

Alternative 8: Feather River at Honcut Creek				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	47	50	50
	AN	46	49	50
	BN	46	49	49
	D	45	48	49
	C	46	49	49
	AVG	46	49	50
FEB	W	49	52	52
	AN	49	53	52
	BN	50	53	52
	D	50	53	53
	C	51	54	54
	AVG	50	53	52
MAR	W	52	54	54
	AN	53	55	54
	BN	54	57	55
	D	55	58	56
	C	55	58	58
	AVG	53	56	55
APR	W	56	58	56
	AN	59	61	58
	BN	60	62	59
	D	60	62	60
	C	59	62	62
	AVG	58	61	59
MAY	W	62	65	63
	AN	65	67	65
	BN	65	67	65
	D	65	67	67
	C	65	68	68
	AVG	64	67	65
JUN	W	67	70	70
	AN	69	72	73
	BN	69	72	73
	D	70	73	74
	C	69	73	73
	AVG	69	72	72
JUL	W	71	72	76
	AN	69	71	76
	BN	69	72	77
	D	69	72	77
	C	71	76	78
	AVG	70	72	77

Alternative 8: Feather River at Honcut Creek				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LLT
AUG	W	72	72	76
	AN	69	71	75
	BN	69	72	76
	D	68	73	76
	C	72	76	77
	AVG	70	73	76
SEP	W	66	64	68
	AN	66	65	70
	BN	67	69	71
	D	66	70	71
	C	66	71	71
	AVG	66	68	70
OCT	W	59	63	63
	AN	60	64	64
	BN	60	64	65
	D	59	63	63
	C	60	64	65
	AVG	60	63	64
NOV	W	53	57	56
	AN	54	58	58
	BN	53	57	57
	D	53	57	57
	C	54	57	58
	AVG	53	57	57
DEC	W	47	51	51
	AN	47	52	51
	BN	46	51	51
	D	46	50	50
	C	46	50	50
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Honcut Creek, Year-Round**

Alternative 8: Feather River at Honcut Creek			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
JAN	W	3.3 (7%)	0.6 (1.2%)
	AN	3.3 (7.2%)	0.4 (0.8%)
	BN	3.4 (7.5%)	0.7 (1.5%)
	D	3.1 (6.9%)	0.3 (0.7%)
	C	3.3 (7.2%)	0.1 (0.2%)
	AVG	3.3 (7.1%)	0.5 (0.9%)
FEB	W	2.8 (5.6%)	0.1 (0.2%)
	AN	2.4 (4.8%)	-0.7 (-1.3%)
	BN	2.5 (5.1%)	-0.4 (-0.8%)
	D	2.4 (4.7%)	-0.4 (-0.8%)
	C	2.9 (5.7%)	-0.1 (-0.3%)
	AVG	2.6 (5.2%)	-0.2 (-0.5%)
MAR	W	2.3 (4.4%)	0 (0%)
	AN	1.2 (2.3%)	-0.5 (-1%)
	BN	1.6 (2.9%)	-1.5 (-2.6%)
	D	1 (1.9%)	-1.4 (-2.5%)
	C	2.6 (4.7%)	-0.3 (-0.4%)
	AVG	1.8 (3.3%)	-0.7 (-1.2%)
APR	W	0.2 (0.4%)	-1.8 (-3.2%)
	AN	-1 (-1.7%)	-3.3 (-5.4%)
	BN	-1 (-1.7%)	-3 (-4.8%)
	D	0.5 (0.8%)	-1.8 (-3%)
	C	2.6 (4.3%)	0.1 (0.2%)
	AVG	0.2 (0.4%)	-1.9 (-3.2%)
MAY	W	0.6 (1%)	-2.6 (-3.9%)
	AN	0.3 (0.4%)	-1.8 (-2.7%)
	BN	-0.1 (-0.1%)	-2.1 (-3.1%)
	D	1.6 (2.4%)	-0.5 (-0.7%)
	C	2.6 (4%)	0.3 (0.4%)
	AVG	1 (1.5%)	-1.5 (-2.2%)
JUN	W	2.9 (4.4%)	0.1 (0.1%)
	AN	3.7 (5.3%)	1.2 (1.7%)
	BN	3.4 (4.8%)	1.1 (1.5%)
	D	4.1 (5.8%)	1.1 (1.5%)
	C	3.6 (5.2%)	0.4 (0.6%)
	AVG	3.5 (5%)	0.7 (1%)
JUL	W	5.4 (7.6%)	4.7 (6.5%)
	AN	7.1 (10.3%)	5.5 (7.7%)
	BN	8 (11.5%)	5.6 (7.9%)
	D	7.8 (11.3%)	5.2 (7.2%)
	C	7.1 (10%)	2.7 (3.5%)
	AVG	6.9 (9.8%)	4.8 (6.6%)

Alternative 8: Feather River at Honcut Creek			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	4.4 (6.2%)	3.7 (5.2%)
	AN	5.9 (8.7%)	4 (5.7%)
	BN	6.7 (9.6%)	4.2 (5.9%)
	D	7.3 (10.7%)	2.8 (3.8%)
	C	5 (6.9%)	0.7 (0.9%)
	AVG	5.7 (8.2%)	3.2 (4.4%)
SEP	W	2.5 (3.8%)	4.1 (6.3%)
	AN	3.7 (5.5%)	4.6 (7.1%)
	BN	4.3 (6.4%)	1.4 (2%)
	D	4.8 (7.3%)	1 (1.4%)
	C	4.8 (7.2%)	0.2 (0.3%)
	AVG	3.8 (5.8%)	2.4 (3.6%)
OCT	W	4.1 (6.9%)	0.2 (0.3%)
	AN	3.9 (6.5%)	0.7 (1%)
	BN	4.9 (8.2%)	1.3 (2%)
	D	4.1 (6.9%)	0.1 (0.1%)
	C	5 (8.3%)	1.2 (1.9%)
	AVG	4.3 (7.3%)	0.6 (0.9%)
NOV	W	3.6 (6.8%)	-0.5 (-0.9%)
	AN	4 (7.5%)	0.1 (0.3%)
	BN	4.4 (8.3%)	0.5 (0.8%)
	D	4 (7.6%)	-0.3 (-0.6%)
	C	4.5 (8.4%)	0.6 (1.1%)
	AVG	4 (7.6%)	0 (-0.1%)
DEC	W	3.6 (7.5%)	0.2 (0.4%)
	AN	3.7 (7.9%)	-0.6 (-1.1%)
	BN	4 (8.7%)	0 (0%)
	D	3.7 (7.9%)	-0.2 (-0.4%)
	C	3.6 (7.9%)	0.1 (0.1%)
	AVG	3.7 (7.9%)	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.

1 **11D.8.14 Feather River at the Confluence with the Sacramento**
2 **River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
4 **Feather River at Confluence with the Sacramento River, Year-Round**

Alternative 8: Feather River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	AB_LL1
JAN	W	47	48	49
	AN	46	48	48
	BN	46	47	48
	D	45	47	47
	C	45	48	48
	AVG	46	48	48
FEB	W	50	52	52
	AN	50	52	52
	BN	50	51	52
	D	50	52	52
	C	51	53	53
	AVG	50	52	52
MAR	W	53	55	55
	AN	54	56	56
	BN	55	57	56
	D	55	57	57
	C	56	58	58
	AVG	55	56	56
APR	W	59	60	59
	AN	60	62	61
	BN	61	62	61
	D	62	64	63
	C	63	65	65
	AVG	61	63	61
MAY	W	65	68	66
	AN	66	69	68
	BN	67	69	68
	D	68	70	70
	C	68	71	71
	AVG	66	69	68
JUN	W	70	73	73
	AN	71	75	76
	BN	72	75	76
	D	73	77	78
	C	72	76	76
	AVG	71	75	76

Alternative 8: Feather River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JUL	W	74	76	80
	AN	72	75	79
	BN	73	76	80
	D	73	76	81
	C	75	79	81
	AVG	73	76	80
AUG	W	73	76	79
	AN	71	74	77
	BN	72	75	78
	D	72	76	79
	C	75	79	79
	AVG	73	76	78
SEP	W	71	70	73
	AN	70	70	73
	BN	70	73	74
	D	70	74	75
	C	70	74	74
	AVG	70	72	74
OCT	W	61	64	64
	AN	62	64	65
	BN	61	64	65
	D	61	64	64
	C	62	65	66
	AVG	61	64	65
NOV	W	52	55	55
	AN	53	56	56
	BN	53	55	55
	D	52	55	55
	C	53	56	56
	AVG	53	55	55
DEC	W	47	49	49
	AN	47	50	49
	BN	46	49	48
	D	46	49	48
	C	45	47	47
	AVG	46	49	48

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

Alternative 8: Feather River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
JAN	W	2.4 (5.1%)	0.5 (1%)
	AN	2.4 (5.1%)	0.5 (1.1%)
	BN	2.4 (5.3%)	0.6 (1.3%)
	D	2.4 (5.3%)	0.3 (0.7%)
	C	2.3 (5%)	0 (-0.1%)
	AVG	2.4 (5.2%)	0.4 (0.8%)
FEB	W	2.1 (4.1%)	0.2 (0.3%)
	AN	1.9 (3.8%)	-0.1 (-0.1%)
	BN	1.9 (3.9%)	0.2 (0.4%)
	D	2.2 (4.3%)	0.2 (0.5%)
	C	2.3 (4.5%)	0.1 (0.2%)
	AVG	2.1 (4.1%)	0.2 (0.3%)
MAR	W	1.7 (3.3%)	0 (0%)
	AN	1.2 (2.3%)	-0.1 (-0.2%)
	BN	1.5 (2.7%)	-0.4 (-0.7%)
	D	1.4 (2.6%)	-0.3 (-0.6%)
	C	1.9 (3.5%)	-0.1 (-0.2%)
	AVG	1.6 (2.9%)	-0.2 (-0.3%)
APR	W	0.6 (1%)	-1 (-1.7%)
	AN	0.4 (0.6%)	-1.5 (-2.4%)
	BN	0.2 (0.3%)	-1.5 (-2.4%)
	D	0.7 (1.1%)	-1.3 (-2.1%)
	C	1.8 (2.9%)	-0.4 (-0.6%)
	AVG	0.7 (1.1%)	-1.1 (-1.8%)
MAY	W	1.6 (2.5%)	-1.4 (-2.1%)
	AN	1.8 (2.7%)	-1.2 (-1.7%)
	BN	1.3 (2%)	-1.2 (-1.8%)
	D	2.2 (3.2%)	-0.5 (-0.7%)
	C	2.5 (3.7%)	-0.2 (-0.2%)
	AVG	1.8 (2.8%)	-1 (-1.4%)
JUN	W	3.6 (5.2%)	0.2 (0.2%)
	AN	4.4 (6.2%)	1.1 (1.4%)
	BN	4.1 (5.8%)	0.8 (1%)
	D	4.7 (6.5%)	1 (1.3%)
	C	3.9 (5.4%)	0.4 (0.5%)
	AVG	4.1 (5.8%)	0.6 (0.8%)
JUL	W	6.3 (8.6%)	3.7 (4.8%)
	AN	7 (9.6%)	4.3 (5.7%)
	BN	7.6 (10.4%)	4.5 (5.9%)
	D	7.8 (10.7%)	4.4 (5.8%)
	C	6.6 (8.9%)	2.1 (2.6%)
	AVG	7 (9.5%)	3.8 (5%)

Alternative 8: Feather River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	5.5 (7.6%)	3 (4%)
	AN	5.7 (7.9%)	3 (4%)
	BN	6.3 (8.7%)	3.2 (4.3%)
	D	7.2 (10.1%)	2.5 (3.3%)
	C	4.8 (6.4%)	0.4 (0.6%)
	AVG	5.9 (8.2%)	2.6 (3.4%)
SEP	W	2.6 (3.7%)	3.3 (4.7%)
	AN	3.5 (5%)	3.6 (5.1%)
	BN	4.3 (6.1%)	1.3 (1.7%)
	D	4.7 (6.7%)	0.3 (0.4%)
	C	4 (5.7%)	0.3 (0.4%)
	AVG	3.7 (5.2%)	1.9 (2.6%)
OCT	W	3.4 (5.6%)	0.2 (0.4%)
	AN	2.9 (4.7%)	0.3 (0.5%)
	BN	3.5 (5.7%)	0.6 (0.9%)
	D	3.2 (5.3%)	0.1 (0.2%)
	C	3.7 (5.9%)	0.4 (0.6%)
	AVG	3.3 (5.5%)	0.3 (0.5%)
NOV	W	2.4 (4.6%)	-0.4 (-0.7%)
	AN	2.7 (5%)	-0.2 (-0.4%)
	BN	2.6 (5%)	-0.2 (-0.3%)
	D	2.5 (4.8%)	-0.3 (-0.5%)
	C	2.6 (5%)	-0.1 (-0.3%)
	AVG	2.5 (4.8%)	-0.3 (-0.5%)
DEC	W	1.9 (4%)	0 (0%)
	AN	2.3 (4.9%)	-0.6 (-1.2%)
	BN	2.4 (5.3%)	-0.3 (-0.7%)
	D	1.8 (4%)	-0.7 (-1.5%)
	C	2 (4.4%)	-0.4 (-0.8%)
	AVG	2 (4.4%)	-0.4 (-0.8%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.8.15 American River below Nimbus Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
3 **American River below Nimbus Dam, Year-Round**

Alternative 8: American River below Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	47	49	49
	C	47	50	50
	AVG	47	50	50
FEB	W	48	51	51
	AN	48	52	51
	BN	47	51	51
	D	49	52	52
	C	51	54	54
	AVG	48	52	52
MAR	W	52	55	55
	AN	53	56	56
	BN	53	56	56
	D	53	57	56
	C	55	58	58
	AVG	53	56	56
APR	W	56	59	59
	AN	57	60	60
	BN	57	61	61
	D	59	62	61
	C	59	63	62
	AVG	58	60	60
MAY	W	60	64	64
	AN	61	66	66
	BN	61	65	65
	D	64	67	66
	C	64	68	67
	AVG	62	66	65
JUN	W	64	67	67
	AN	65	68	68
	BN	65	68	68
	D	67	69	69
	C	68	72	71
	AVG	66	68	68
JUL	W	66	68	69
	AN	66	66	69
	BN	66	67	68
	D	67	69	70
	C	70	74	78
	AVG	67	69	70

Alternative 8: American River below Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
AUG	W	67	70	70
	AN	67	69	69
	BN	67	69	69
	D	67	71	72
	C	70	76	77
	AVG	67	71	71
SEP	W	65	68	67
	AN	66	69	68
	BN	66	69	69
	D	66	71	72
	C	68	73	74
	AVG	66	70	70
OCT	W	58	68	67
	AN	59	68	68
	BN	58	68	67
	D	59	67	67
	C	61	68	67
	AVG	59	68	67
NOV	W	57	61	61
	AN	57	61	61
	BN	56	61	60
	D	57	61	60
	C	58	61	61
	AVG	57	61	61
DEC	W	50	53	53
	AN	51	53	53
	BN	50	52	52
	D	50	53	53
	C	50	52	52
	AVG	50	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the American River below Nimbus Dam, Year-Round**

Alternative 8: American River below Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
JAN	W	3.1 (6.7%)	0 (0%)
	AN	2.7 (5.7%)	0 (0.1%)
	BN	3.1 (6.7%)	0.1 (0.2%)
	D	2.8 (6%)	0 (-0.1%)
	C	2.7 (5.8%)	-0.3 (-0.5%)
	AVG	2.9 (6.3%)	0 (0%)
FEB	W	3.4 (7.1%)	0 (-0.1%)
	AN	3.5 (7.4%)	-0.3 (-0.5%)
	BN	3.3 (6.9%)	0 (0%)
	D	3.5 (7.2%)	0.1 (0.1%)
	C	3.2 (6.4%)	-0.1 (-0.1%)
	AVG	3.4 (7%)	0 (-0.1%)
MAR	W	3.1 (6%)	0 (0%)
	AN	3 (5.6%)	0.1 (0.1%)
	BN	2.9 (5.6%)	0.3 (0.6%)
	D	3.1 (5.9%)	-0.3 (-0.5%)
	C	3.1 (5.6%)	0.1 (0.2%)
	AVG	3.1 (5.8%)	0 (0%)
APR	W	2.9 (5.3%)	0 (0%)
	AN	3.3 (5.8%)	0.2 (0.3%)
	BN	3.1 (5.4%)	-0.1 (-0.1%)
	D	2.4 (4%)	-0.2 (-0.3%)
	C	2.9 (4.8%)	-0.3 (-0.6%)
	AVG	2.9 (5%)	-0.1 (-0.1%)
MAY	W	4.1 (6.8%)	-0.1 (-0.2%)
	AN	4.5 (7.4%)	-0.2 (-0.3%)
	BN	4 (6.5%)	-0.2 (-0.3%)
	D	1.9 (3%)	-1.1 (-1.7%)
	C	2.4 (3.7%)	-1.3 (-1.9%)
	AVG	3.4 (5.5%)	-0.5 (-0.8%)
JUN	W	2.9 (4.5%)	-0.1 (-0.2%)
	AN	2.7 (4.1%)	-0.1 (-0.2%)
	BN	3.2 (4.9%)	0.2 (0.3%)
	D	2.1 (3.2%)	0.3 (0.4%)
	C	3.5 (5.2%)	-0.7 (-1%)
	AVG	2.8 (4.3%)	-0.1 (-0.1%)
JUL	W	2.6 (3.9%)	1.1 (1.6%)
	AN	2.6 (3.9%)	2.1 (3.2%)
	BN	2.5 (3.8%)	1.3 (2%)
	D	3.7 (5.6%)	1.5 (2.1%)
	C	7.8 (11.1%)	3.4 (4.5%)
	AVG	3.6 (5.4%)	1.7 (2.5%)

Alternative 8: American River below Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	3.5 (5.2%)	0.3 (0.4%)
	AN	1.9 (2.9%)	-0.1 (-0.2%)
	BN	1.7 (2.6%)	-0.1 (-0.1%)
	D	5 (7.4%)	0.8 (1.1%)
	C	7.1 (10.1%)	0.8 (1%)
	AVG	3.8 (5.7%)	0.3 (0.5%)
SEP	W	2.1 (3.2%)	-0.6 (-0.9%)
	AN	2.8 (4.2%)	-0.3 (-0.4%)
	BN	3.2 (4.9%)	0.5 (0.7%)
	D	5.7 (8.6%)	0.7 (1%)
	C	5.5 (8%)	0.6 (0.9%)
	AVG	3.7 (5.6%)	0.1 (0.1%)
OCT	W	8.7 (14.9%)	-0.6 (-0.9%)
	AN	9 (15.2%)	0.3 (0.4%)
	BN	8.8 (15.1%)	-0.9 (-1.4%)
	D	7.9 (13.4%)	-0.4 (-0.6%)
	C	6.6 (10.8%)	-0.8 (-1.2%)
	AVG	8.3 (14%)	-0.5 (-0.8%)
NOV	W	3.8 (6.7%)	0 (-0.1%)
	AN	3.4 (6%)	-0.4 (-0.7%)
	BN	4.2 (7.4%)	-0.2 (-0.3%)
	D	3.7 (6.5%)	-0.2 (-0.3%)
	C	2.8 (4.8%)	-0.8 (-1.3%)
	AVG	3.6 (6.4%)	-0.3 (-0.4%)
DEC	W	2.8 (5.5%)	0.2 (0.3%)
	AN	2.5 (5%)	-0.1 (-0.3%)
	BN	2.7 (5.4%)	0 (-0.1%)
	D	2.6 (5.2%)	-0.1 (-0.1%)
	C	2 (3.9%)	-0.6 (-1.1%)
	AVG	2.6 (5.1%)	-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.

1 **11D.8.16 American River at Watt Avenue**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
3 **American River at Watt Avenue, Year-Round**

Alternative 8: American River at Watt Avenue				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	46	49	49
	C	46	49	49
	AVG	46	49	49
FEB	W	48	52	52
	AN	48	52	52
	BN	48	51	51
	D	49	52	52
	C	51	54	54
	AVG	49	52	52
MAR	W	53	56	56
	AN	53	56	56
	BN	54	56	56
	D	54	57	57
	C	56	58	59
	AVG	54	56	57
APR	W	56	59	59
	AN	58	61	61
	BN	58	61	61
	D	60	63	62
	C	61	64	63
	AVG	58	61	61
MAY	W	61	65	65
	AN	62	67	67
	BN	62	67	66
	D	65	68	67
	C	66	69	68
	AVG	63	67	66
JUN	W	65	68	68
	AN	67	70	70
	BN	67	70	70
	D	69	71	71
	C	69	73	72
	AVG	67	70	70
JUL	W	68	70	71
	AN	67	68	71
	BN	67	69	71
	D	68	71	73
	C	72	76	78
	AVG	68	71	72

Alternative 8: American River at Watt Avenue				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL
AUG	W	68	72	72
	AN	69	72	71
	BN	69	72	71
	D	69	73	74
	C	71	77	77
	AVG	69	73	73
SEP	W	66	69	68
	AN	66	70	69
	BN	67	70	71
	D	67	72	73
	C	69	73	74
	AVG	67	71	71
OCT	W	59	67	67
	AN	60	67	68
	BN	59	68	67
	D	60	67	66
	C	61	68	67
	AVG	60	67	67
NOV	W	56	60	60
	AN	56	60	60
	BN	56	60	59
	D	56	59	59
	C	57	60	60
	AVG	56	60	60
DEC	W	50	52	52
	AN	50	52	52
	BN	49	51	51
	D	49	52	52
	C	49	51	50
	AVG	49	52	52

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the American River at Watt Avenue, Year-Round**

Alternative 8: American River at Watt Avenue			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
JAN	W	3.1 (6.7%)	0 (0%)
	AN	2.7 (5.8%)	0 (0.1%)
	BN	2.9 (6.4%)	0 (0.1%)
	D	2.7 (5.9%)	0 (-0.1%)
	C	2.7 (5.8%)	-0.2 (-0.5%)
	AVG	2.9 (6.2%)	0 (-0.1%)
FEB	W	3.4 (7%)	0 (-0.1%)
	AN	3.4 (7.1%)	-0.3 (-0.5%)
	BN	3.1 (6.6%)	0 (-0.1%)
	D	3.3 (6.7%)	0.1 (0.1%)
	C	3.2 (6.3%)	0 (-0.1%)
	AVG	3.3 (6.8%)	0 (-0.1%)
MAR	W	3 (5.7%)	0 (0%)
	AN	2.9 (5.5%)	0.1 (0.2%)
	BN	2.8 (5.2%)	0.2 (0.4%)
	D	3 (5.5%)	-0.2 (-0.4%)
	C	2.9 (5.2%)	0.2 (0.3%)
	AVG	2.9 (5.5%)	0 (0.1%)
APR	W	2.8 (5%)	0 (-0.1%)
	AN	3.3 (5.6%)	0.1 (0.2%)
	BN	2.9 (4.9%)	-0.1 (-0.2%)
	D	2.2 (3.7%)	-0.3 (-0.5%)
	C	2.4 (3.9%)	-0.4 (-0.7%)
	AVG	2.7 (4.6%)	-0.2 (-0.3%)
MAY	W	4.1 (6.8%)	-0.2 (-0.3%)
	AN	4.6 (7.3%)	-0.3 (-0.4%)
	BN	3.6 (5.7%)	-0.5 (-0.8%)
	D	1.7 (2.6%)	-1.3 (-1.9%)
	C	1.9 (2.8%)	-1.5 (-2.1%)
	AVG	3.2 (5.1%)	-0.7 (-1%)
JUN	W	3.2 (5%)	-0.2 (-0.3%)
	AN	2.8 (4.2%)	-0.1 (-0.2%)
	BN	3.2 (4.8%)	0.1 (0.2%)
	D	2.3 (3.3%)	0 (0%)
	C	3.2 (4.6%)	-0.8 (-1.1%)
	AVG	3 (4.4%)	-0.2 (-0.3%)
JUL	W	3.4 (5%)	1.3 (1.9%)
	AN	3.4 (5%)	2.5 (3.7%)
	BN	3.3 (4.9%)	1.6 (2.4%)
	D	4.4 (6.5%)	1.5 (2.2%)
	C	6.2 (8.7%)	2.4 (3.1%)
	AVG	4 (5.9%)	1.7 (2.5%)

Alternative 8: American River at Watt Avenue			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	4.4 (6.5%)	0.3 (0.4%)
	AN	2.7 (3.9%)	-0.2 (-0.3%)
	BN	2.4 (3.5%)	-0.1 (-0.2%)
	D	5.5 (8%)	0.9 (1.3%)
	C	5.7 (8%)	0.3 (0.4%)
	AVG	4.3 (6.2%)	0.3 (0.4%)
SEP	W	2.4 (3.7%)	-0.5 (-0.7%)
	AN	3 (4.6%)	-0.4 (-0.6%)
	BN	3.9 (5.8%)	0.6 (0.8%)
	D	5.3 (7.9%)	0.5 (0.7%)
	C	4.6 (6.7%)	0.3 (0.4%)
	AVG	3.7 (5.6%)	0 (0%)
OCT	W	7.3 (12.3%)	-0.5 (-0.7%)
	AN	7.8 (13%)	0.3 (0.5%)
	BN	7.4 (12.5%)	-0.8 (-1.2%)
	D	6.5 (10.9%)	-0.3 (-0.5%)
	C	5.6 (9.1%)	-0.6 (-0.9%)
	AVG	7 (11.6%)	-0.4 (-0.6%)
NOV	W	3.5 (6.1%)	-0.1 (-0.2%)
	AN	3.1 (5.6%)	-0.5 (-0.8%)
	BN	3.7 (6.7%)	-0.3 (-0.5%)
	D	3.4 (6%)	-0.1 (-0.1%)
	C	2.7 (4.8%)	-0.6 (-1.1%)
	AVG	3.3 (5.9%)	-0.3 (-0.4%)
DEC	W	2.7 (5.4%)	0.2 (0.3%)
	AN	2.4 (4.8%)	-0.1 (-0.3%)
	BN	2.5 (5.1%)	-0.1 (-0.3%)
	D	2.5 (5.1%)	0 (0.1%)
	C	1.7 (3.6%)	-0.6 (-1.1%)
	AVG	2.4 (4.9%)	-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.

1 **11D.8.17 American River at the Confluence with the**
2 **Sacramento River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
4 **American River at the Confluence with the Sacramento River, Year-Round**

Alternative 8: American River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	47	50	50
	AN	46	49	49
	BN	46	48	48
	D	46	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	48	52	52
	AN	48	52	52
	BN	48	51	51
	D	49	52	53
	C	51	55	55
	AVG	49	52	52
MAR	W	53	56	56
	AN	53	56	56
	BN	54	56	57
	D	55	58	57
	C	56	59	59
	AVG	54	57	57
APR	W	57	60	60
	AN	58	61	62
	BN	59	62	62
	D	61	63	63
	C	62	64	64
	AVG	59	62	62
MAY	W	61	66	65
	AN	63	68	68
	BN	63	67	66
	D	66	69	67
	C	67	70	68
	AVG	64	67	67
JUN	W	65	69	69
	AN	68	71	71
	BN	68	71	71
	D	70	72	72
	C	70	74	73
	AVG	68	71	71

Alternative 8: American River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JUL	W	69	71	72
	AN	68	69	72
	BN	68	70	72
	D	69	72	74
	C	73	76	78
	AVG	69	72	73
AUG	W	69	73	74
	AN	69	73	72
	BN	70	73	73
	D	69	74	75
	C	72	77	77
	AVG	70	74	74
SEP	W	66	69	69
	AN	67	70	70
	BN	67	71	72
	D	68	72	73
	C	69	74	74
	AVG	67	71	71
OCT	W	60	67	66
	AN	60	67	67
	BN	60	67	67
	D	60	66	66
	C	62	67	67
	AVG	60	67	67
NOV	W	56	60	59
	AN	56	60	59
	BN	55	59	59
	D	56	59	59
	C	57	60	59
	AVG	56	59	59
DEC	W	49	52	52
	AN	49	52	52
	BN	48	51	51
	D	49	51	51
	C	48	50	50
	AVG	49	51	51

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

Alternative 8: American River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
JAN	W	3.1 (6.7%)	0 (0%)
	AN	2.8 (6%)	0.1 (0.1%)
	BN	2.9 (6.3%)	0 (0.1%)
	D	2.6 (5.7%)	0 (-0.1%)
	C	2.7 (5.9%)	-0.2 (-0.4%)
	AVG	2.9 (6.2%)	0 (0%)
FEB	W	3.4 (7%)	0 (0%)
	AN	3.4 (7.1%)	-0.3 (-0.5%)
	BN	3.1 (6.4%)	0 (-0.1%)
	D	3.2 (6.5%)	0.1 (0.1%)
	C	3.2 (6.2%)	0 (0%)
	AVG	3.2 (6.6%)	0 (-0.1%)
MAR	W	2.9 (5.6%)	0 (0%)
	AN	2.9 (5.5%)	0.1 (0.2%)
	BN	2.7 (5%)	0.2 (0.3%)
	D	2.9 (5.3%)	-0.2 (-0.3%)
	C	2.8 (4.9%)	0.2 (0.3%)
	AVG	2.9 (5.3%)	0 (0.1%)
APR	W	2.8 (4.9%)	0 (-0.1%)
	AN	3.2 (5.4%)	0.2 (0.3%)
	BN	2.8 (4.7%)	-0.2 (-0.3%)
	D	2.2 (3.6%)	-0.4 (-0.6%)
	C	2.1 (3.4%)	-0.5 (-0.8%)
	AVG	2.6 (4.4%)	-0.2 (-0.3%)
MAY	W	4.1 (6.8%)	-0.2 (-0.3%)
	AN	4.6 (7.3%)	-0.3 (-0.4%)
	BN	3.4 (5.4%)	-0.7 (-1%)
	D	1.6 (2.5%)	-1.3 (-2%)
	C	1.7 (2.6%)	-1.5 (-2.1%)
	AVG	3.1 (5%)	-0.7 (-1.1%)
JUN	W	3.4 (5.2%)	-0.2 (-0.4%)
	AN	2.8 (4.2%)	-0.2 (-0.2%)
	BN	3.2 (4.7%)	0.1 (0.2%)
	D	2.3 (3.4%)	-0.1 (-0.2%)
	C	3 (4.4%)	-0.8 (-1.1%)
	AVG	3 (4.5%)	-0.2 (-0.3%)
JUL	W	3.8 (5.5%)	1.5 (2%)
	AN	3.8 (5.6%)	2.7 (4%)
	BN	3.8 (5.6%)	1.7 (2.5%)
	D	4.6 (6.7%)	1.5 (2%)
	C	5.7 (7.8%)	1.9 (2.5%)
	AVG	4.2 (6.1%)	1.8 (2.4%)

Alternative 8: American River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
AUG	W	4.9 (7.1%)	0.3 (0.4%)
	AN	3 (4.4%)	-0.3 (-0.4%)
	BN	2.7 (3.9%)	-0.2 (-0.2%)
	D	5.6 (8.1%)	0.9 (1.2%)
	C	5.2 (7.3%)	0.1 (0.2%)
	AVG	4.5 (6.4%)	0.2 (0.3%)
SEP	W	2.7 (4%)	-0.5 (-0.7%)
	AN	3.2 (4.7%)	-0.5 (-0.6%)
	BN	4.2 (6.2%)	0.6 (0.8%)
	D	5.1 (7.5%)	0.4 (0.5%)
	C	4.3 (6.2%)	0.1 (0.2%)
	AVG	3.8 (5.6%)	0 (0%)
OCT	W	6.5 (10.9%)	-0.4 (-0.6%)
	AN	7.2 (11.9%)	0.4 (0.5%)
	BN	6.7 (11.2%)	-0.7 (-1.1%)
	D	5.8 (9.7%)	-0.2 (-0.4%)
	C	5.1 (8.3%)	-0.5 (-0.7%)
	AVG	6.3 (10.4%)	-0.3 (-0.5%)
NOV	W	3.3 (5.9%)	-0.1 (-0.2%)
	AN	3 (5.4%)	-0.4 (-0.7%)
	BN	3.5 (6.3%)	-0.3 (-0.6%)
	D	3.2 (5.8%)	0 (0%)
	C	2.7 (4.7%)	-0.5 (-0.9%)
	AVG	3.2 (5.7%)	-0.2 (-0.4%)
DEC	W	2.6 (5.3%)	0.2 (0.3%)
	AN	2.4 (4.8%)	-0.1 (-0.2%)
	BN	2.4 (5%)	-0.2 (-0.4%)
	D	2.4 (4.9%)	0.1 (0.1%)
	C	1.7 (3.4%)	-0.5 (-1%)
	AVG	2.4 (4.8%)	-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.

1 **11D.8.18 Stanislaus River at Knights Ferry**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
3 **Stanislaus River at Knights Ferry, Year-Round**

Alternative 8: Stanislaus River at Knights Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	48	51	51
	C	49	52	52
	AVG	49	52	52
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	49	52	52
	AN	49	53	53
	BN	51	54	54
	D	51	54	54
	C	52	55	55
	AVG	50	54	54
APR	W	50	53	53
	AN	50	54	54
	BN	51	55	55
	D	52	55	55
	C	53	57	57
	AVG	51	54	54
MAY	W	51	55	54
	AN	53	56	56
	BN	54	57	57
	D	55	58	58
	C	56	59	59
	AVG	53	57	57
JUN	W	54	56	56
	AN	56	59	59
	BN	58	61	61
	D	59	63	62
	C	60	64	63
	AVG	57	60	60
JUL	W	57	59	59
	AN	59	62	62
	BN	60	63	63
	D	61	65	64
	C	62	66	66
	AVG	59	63	63

Alternative 8: Stanislaus River at Knights Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
AUG	W	58	61	61
	AN	60	63	63
	BN	60	64	64
	D	61	65	65
	C	62	67	67
	AVG	60	64	64
SEP	W	59	62	62
	AN	60	64	64
	BN	61	64	64
	D	62	65	65
	C	63	67	68
	AVG	61	64	64
OCT	W	59	62	62
	AN	59	62	62
	BN	59	62	62
	D	58	62	62
	C	60	64	64
	AVG	59	63	63
NOV	W	56	59	59
	AN	56	59	59
	BN	56	59	59
	D	56	59	59
	C	57	61	61
	AVG	56	60	60
DEC	W	52	55	55
	AN	52	55	55
	BN	51	54	54
	D	51	54	54
	C	52	55	55
	AVG	51	55	55

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Knights Ferry, Year-Round**

Alternative 8: Stanislaus River at Knights Ferry			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
JAN	W	3.1 (6.3%)	0 (0%)
	AN	3.1 (6.3%)	0 (0%)
	BN	3.1 (6.4%)	0 (0%)
	D	3 (6.3%)	0 (0%)
	C	3 (6.2%)	0 (0%)
	AVG	3.1 (6.3%)	0 (0%)
FEB	W	3.1 (6.4%)	0 (0%)
	AN	3.2 (6.5%)	0 (0%)
	BN	3 (6.2%)	0 (0%)
	D	3.1 (6.5%)	0 (0%)
	C	3.1 (6.3%)	0 (0%)
	AVG	3.1 (6.4%)	0 (0%)
MAR	W	3.2 (6.6%)	0 (0%)
	AN	3.6 (7.3%)	0 (0%)
	BN	3.1 (6.1%)	0 (0%)
	D	3.3 (6.5%)	0 (0%)
	C	3 (5.8%)	0 (0%)
	AVG	3.2 (6.5%)	0 (0%)
APR	W	3.1 (6.2%)	0 (0%)
	AN	3.3 (6.6%)	0 (0.1%)
	BN	3.4 (6.6%)	0 (0%)
	D	3.5 (6.7%)	0 (0%)
	C	3.6 (6.7%)	0 (0%)
	AVG	3.3 (6.5%)	0 (0%)
MAY	W	3 (5.9%)	0 (0%)
	AN	3.2 (6%)	0 (0.1%)
	BN	3.5 (6.5%)	0 (0%)
	D	3.4 (6.1%)	0 (0%)
	C	3.3 (5.9%)	0 (0%)
	AVG	3.2 (6.1%)	0 (0%)
JUN	W	2.5 (4.7%)	0 (-0.1%)
	AN	3.4 (6.1%)	0.1 (0.1%)
	BN	3.5 (6%)	-0.2 (-0.3%)
	D	3.5 (5.9%)	-0.3 (-0.5%)
	C	3.8 (6.4%)	-0.3 (-0.5%)
	AVG	3.3 (5.7%)	-0.1 (-0.2%)
JUL	W	2.5 (4.4%)	0 (0%)
	AN	3.3 (5.7%)	0 (0%)
	BN	3.4 (5.7%)	-0.1 (-0.2%)
	D	3.5 (5.7%)	-0.2 (-0.3%)
	C	4.1 (6.6%)	0 (0%)
	AVG	3.3 (5.5%)	-0.1 (-0.1%)

Alternative 8: Stanislaus River at Knights Ferry			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	3.4 (5.8%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)
	BN	3.4 (5.6%)	-0.1 (-0.1%)
	D	3.4 (5.6%)	-0.1 (-0.2%)
	C	4.4 (7.1%)	0.1 (0.1%)
	AVG	3.6 (6%)	0 (0%)
SEP	W	3.5 (6%)	0 (0%)
	AN	3.6 (6%)	0 (0%)
	BN	3.6 (5.9%)	0 (0%)
	D	3.7 (5.9%)	0 (0%)
	C	4.5 (7.2%)	0.6 (0.9%)
	AVG	3.8 (6.2%)	0.1 (0.2%)
OCT	W	3.5 (5.9%)	0 (0%)
	AN	3.1 (5.2%)	0 (0.1%)
	BN	3.3 (5.7%)	0 (0.1%)
	D	3.5 (5.9%)	0 (0%)
	C	3.8 (6.3%)	0.1 (0.2%)
	AVG	3.4 (5.8%)	0 (0.1%)
NOV	W	3.3 (5.8%)	0 (0%)
	AN	3.1 (5.5%)	0 (0%)
	BN	3.3 (5.9%)	0 (0%)
	D	3.3 (6%)	0 (0%)
	C	3.5 (6%)	0 (0%)
	AVG	3.3 (5.8%)	0 (0%)
DEC	W	3.3 (6.4%)	0 (-0.1%)
	AN	3 (5.9%)	0 (0%)
	BN	3.2 (6.3%)	-0.1 (-0.1%)
	D	3.1 (6.2%)	0 (0%)
	C	3.3 (6.3%)	0 (0%)
	AVG	3.2 (6.2%)	0 (-0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.8.19 Stanislaus River at Orange Blossom Bridge**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
3 **Stanislaus River at Orange Blossom Bridge, Year-Round**

Alternative 8: Stanislaus River at Orange Blossom Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	48	51	51
	AN	48	51	51
	BN	48	51	51
	D	47	50	50
	C	48	51	51
	AVG	48	51	51
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	49	53	53
	AN	50	54	54
	BN	52	55	55
	D	52	56	56
	C	53	56	56
	AVG	51	54	54
APR	W	50	53	53
	AN	51	54	54
	BN	52	56	56
	D	53	56	56
	C	55	58	58
	AVG	52	55	55
MAY	W	53	56	56
	AN	54	57	57
	BN	55	59	59
	D	56	60	60
	C	58	61	61
	AVG	55	58	58
JUN	W	56	58	58
	AN	58	62	62
	BN	60	64	64
	D	62	66	65
	C	63	67	66
	AVG	59	63	62
JUL	W	60	62	62
	AN	63	66	66
	BN	63	67	67
	D	64	68	68
	C	65	69	69
	AVG	63	66	66

Alternative 8: Stanislaus River at Orange Blossom Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL
AUG	W	60	64	64
	AN	63	66	66
	BN	63	66	66
	D	64	68	67
	C	65	69	69
	AVG	63	66	66
SEP	W	60	64	64
	AN	63	66	66
	BN	63	67	67
	D	63	67	67
	C	64	68	69
	AVG	62	66	66
OCT	W	59	62	62
	AN	59	62	62
	BN	59	62	62
	D	59	62	62
	C	60	64	64
	AVG	59	62	63
NOV	W	55	58	58
	AN	55	58	58
	BN	55	58	58
	D	55	58	58
	C	56	59	59
	AVG	55	58	58
DEC	W	50	54	53
	AN	50	53	53
	BN	49	53	53
	D	50	52	52
	C	50	53	53
	AVG	50	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Orange Blossom Bridge, Year-Round**

Alternative 8: Stanislaus River at Orange Blossom Bridge			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
JAN	W	3 (6.2%)	0 (0%)
	AN	3 (6.3%)	0 (0%)
	BN	3 (6.2%)	0 (0%)
	D	2.8 (5.9%)	0 (0%)
	C	2.8 (5.8%)	0 (0%)
	AVG	2.9 (6.1%)	0 (0%)
FEB	W	3.1 (6.3%)	0 (0%)
	AN	3.1 (6.3%)	0 (0%)
	BN	3 (6%)	0 (0%)
	D	3.1 (6.4%)	0 (0%)
	C	3.2 (6.3%)	0 (0%)
	AVG	3.1 (6.3%)	0 (0%)
MAR	W	3.2 (6.4%)	0 (0%)
	AN	3.7 (7.3%)	0 (0%)
	BN	3 (5.8%)	0 (0%)
	D	3.4 (6.5%)	0 (0%)
	C	3.1 (5.8%)	0 (0%)
	AVG	3.3 (6.4%)	0 (0%)
APR	W	3 (6.1%)	0 (0%)
	AN	3.4 (6.6%)	0.1 (0.1%)
	BN	3.5 (6.7%)	0 (0%)
	D	3.6 (6.8%)	0 (0%)
	C	3.6 (6.7%)	0 (0%)
	AVG	3.4 (6.5%)	0 (0%)
MAY	W	3.2 (6%)	0 (0%)
	AN	3.3 (6.2%)	0.1 (0.1%)
	BN	3.9 (7.1%)	0 (0%)
	D	3.6 (6.4%)	0 (0%)
	C	3.5 (6%)	0 (0%)
	AVG	3.4 (6.3%)	0 (0%)
JUN	W	2.3 (4.1%)	-0.1 (-0.1%)
	AN	3.9 (6.8%)	0.1 (0.2%)
	BN	3.5 (5.7%)	-0.5 (-0.7%)
	D	3.3 (5.3%)	-1 (-1.5%)
	C	3.5 (5.6%)	-0.6 (-0.8%)
	AVG	3.2 (5.4%)	-0.3 (-0.5%)
JUL	W	2.1 (3.5%)	0 (0%)
	AN	3.5 (5.6%)	0 (-0.1%)
	BN	3.4 (5.4%)	-0.1 (-0.1%)
	D	3.7 (5.7%)	-0.1 (-0.2%)
	C	4 (6.2%)	0 (0%)
	AVG	3.2 (5.1%)	0 (-0.1%)

Alternative 8: Stanislaus River at Orange Blossom Bridge			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	3.9 (6.4%)	0 (0%)
	AN	3.5 (5.7%)	0 (0%)
	BN	3.4 (5.4%)	0 (-0.1%)
	D	3.4 (5.3%)	-0.1 (-0.1%)
	C	4.4 (6.8%)	0.2 (0.3%)
	AVG	3.8 (6%)	0 (0%)
SEP	W	3.8 (6.2%)	0 (0%)
	AN	3.9 (6.2%)	0 (0%)
	BN	3.7 (5.9%)	0 (0%)
	D	3.7 (5.9%)	0 (0%)
	C	4.4 (6.9%)	0.5 (0.7%)
	AVG	3.9 (6.3%)	0.1 (0.1%)
OCT	W	3.4 (5.7%)	0.1 (0.1%)
	AN	3.1 (5.2%)	0 (0.1%)
	BN	3.2 (5.4%)	0 (0%)
	D	3.4 (5.7%)	0 (0%)
	C	3.6 (6%)	0.1 (0.1%)
	AVG	3.3 (5.6%)	0 (0.1%)
NOV	W	3.1 (5.7%)	0 (0%)
	AN	3 (5.5%)	0 (0%)
	BN	3.2 (5.8%)	0 (0%)
	D	3.2 (5.8%)	0 (0%)
	C	3.2 (5.8%)	0 (0%)
	AVG	3.1 (5.7%)	0 (0%)
DEC	W	3.1 (6.2%)	-0.1 (-0.1%)
	AN	2.9 (5.8%)	0 (0%)
	BN	3.1 (6.3%)	-0.2 (-0.3%)
	D	3 (6%)	0 (0%)
	C	3 (6.1%)	0 (-0.1%)
	AVG	3 (6.1%)	-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.

1 **11D.8.20 Stanislaus River at Riverbank**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
3 **Stanislaus River at Riverbank, Year-Round**

Alternative 8: Stanislaus River at Riverbank				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	45	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	50	53	53
	BN	50	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	51	54	54
	AN	52	55	55
	BN	53	56	56
	D	54	57	57
	C	54	57	57
	AVG	52	56	56
APR	W	52	55	55
	AN	53	56	56
	BN	54	57	57
	D	54	58	58
	C	57	60	60
	AVG	54	57	57
MAY	W	56	59	59
	AN	57	60	60
	BN	58	62	62
	D	59	62	62
	C	60	64	64
	AVG	58	61	61
JUN	W	60	62	62
	AN	62	66	66
	BN	64	68	68
	D	66	70	69
	C	66	70	69
	AVG	63	67	66
JUL	W	65	67	67
	AN	68	71	71
	BN	68	71	71
	D	68	72	72
	C	68	72	72
	AVG	67	70	70

Alternative 8: Stanislaus River at Riverbank				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LLT
AUG	W	65	69	69
	AN	67	70	70
	BN	67	70	70
	D	68	71	71
	C	67	71	71
	AVG	66	70	70
SEP	W	64	67	67
	AN	66	70	70
	BN	66	69	69
	D	66	70	70
	C	66	70	70
	AVG	65	69	69
OCT	W	59	63	63
	AN	59	62	62
	BN	59	62	62
	D	59	62	62
	C	61	64	64
	AVG	60	63	63
NOV	W	53	56	56
	AN	53	56	56
	BN	53	56	56
	D	53	56	56
	C	54	57	57
	AVG	53	56	56
DEC	W	48	51	51
	AN	48	50	50
	BN	47	50	50
	D	47	50	50
	C	47	50	50
	AVG	47	50	50

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Riverbank, Year-Round**

Alternative 8: Stanislaus River at Riverbank			
Month	WYT	EXISTING CONDITIONS	NAA vs. A8_LLT
		vs. A8_LLT	
JAN	W	2.9 (6.3%)	0 (0%)
	AN	3 (6.4%)	0 (0%)
	BN	2.8 (6%)	0 (0%)
	D	2.5 (5.6%)	0 (0%)
	C	2.6 (5.8%)	0 (0%)
	AVG	2.8 (6%)	0 (0%)
FEB	W	3 (6%)	0 (0%)
	AN	2.9 (5.8%)	0 (0%)
	BN	2.7 (5.5%)	0 (0%)
	D	3 (6.1%)	0 (0%)
	C	3 (6%)	0 (0%)
	AVG	2.9 (5.9%)	0 (0%)
MAR	W	3 (5.9%)	0 (0%)
	AN	3.6 (7%)	0 (0%)
	BN	2.8 (5.3%)	0 (0%)
	D	3.4 (6.4%)	0 (0%)
	C	3 (5.6%)	0 (0%)
	AVG	3.2 (6%)	0 (0%)
APR	W	3 (5.7%)	0 (0%)
	AN	3.3 (6.2%)	0.1 (0.1%)
	BN	3.6 (6.6%)	0 (0%)
	D	3.6 (6.7%)	0 (0%)
	C	3.6 (6.4%)	0 (0%)
	AVG	3.4 (6.2%)	0 (0%)
MAY	W	3.2 (5.8%)	0 (0%)
	AN	3.5 (6.2%)	0.1 (0.2%)
	BN	4.2 (7.3%)	0 (0%)
	D	3.8 (6.6%)	-0.1 (-0.1%)
	C	3.5 (5.8%)	0 (0%)
	AVG	3.6 (6.2%)	0 (0%)
JUN	W	2 (3.3%)	-0.1 (-0.1%)
	AN	4 (6.5%)	0.1 (0.1%)
	BN	3.3 (5.1%)	-0.4 (-0.6%)
	D	3.1 (4.7%)	-0.9 (-1.3%)
	C	3.1 (4.6%)	-0.5 (-0.8%)
	AVG	3 (4.7%)	-0.3 (-0.5%)
JUL	W	1.9 (2.9%)	0 (0%)
	AN	3.2 (4.8%)	0 (-0.1%)
	BN	3.1 (4.5%)	0 (-0.1%)
	D	3.6 (5.2%)	0 (0%)
	C	3.5 (5.2%)	0 (0%)
	AVG	2.9 (4.3%)	0 (0%)

Alternative 8: Stanislaus River at Riverbank			
Month	WYT	EXISTING CONDITIONS vs. A8_LLT	NAA vs. A8_LLT
AUG	W	4.1 (6.4%)	0 (0%)
	AN	3.4 (5.1%)	0 (0%)
	BN	3.2 (4.8%)	0 (0%)
	D	3.2 (4.8%)	0 (-0.1%)
	C	3.9 (5.8%)	0.1 (0.2%)
	AVG	3.7 (5.5%)	0 (0%)
SEP	W	3.9 (6.2%)	0 (0%)
	AN	3.8 (5.8%)	-0.1 (-0.1%)
	BN	3.7 (5.7%)	0 (0%)
	D	3.7 (5.6%)	0 (0%)
	C	4 (6%)	0.2 (0.3%)
	AVG	3.9 (5.9%)	0 (0%)
OCT	W	3.2 (5.3%)	0 (0%)
	AN	2.9 (5%)	0 (0%)
	BN	2.9 (5%)	0 (0%)
	D	3.1 (5.2%)	0 (0%)
	C	3.4 (5.5%)	0 (0%)
	AVG	3.1 (5.2%)	0 (0%)
NOV	W	3.1 (5.7%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)
	BN	3.1 (5.8%)	0 (0%)
	D	3.1 (5.8%)	0 (0%)
	C	3 (5.6%)	0 (0%)
	AVG	3.1 (5.8%)	0 (0%)
DEC	W	3 (6.3%)	-0.1 (-0.2%)
	AN	2.9 (6.1%)	0 (0%)
	BN	3 (6.4%)	-0.3 (-0.5%)
	D	2.8 (5.9%)	0 (0%)
	C	2.9 (6.2%)	0 (-0.1%)
	AVG	2.9 (6.2%)	-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.

1 **11D.8.21 Stanislaus River at the Confluence with the San**
2 **Joaquin River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 8 Model Scenarios in the**
4 **Stanislaus River at the Confluence with the San Joaquin River, Year-Round**

Alternative 8: Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JAN	W	46	49	49
	AN	46	49	49
	BN	46	49	49
	D	45	47	47
	C	45	48	48
	AVG	46	48	48
FEB	W	50	53	53
	AN	50	53	53
	BN	50	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	52	55	55
	AN	53	56	56
	BN	54	57	57
	D	55	58	58
	C	55	58	58
	AVG	54	56	56
APR	W	54	57	57
	AN	55	58	58
	BN	56	60	60
	D	57	60	60
	C	59	62	62
	AVG	56	59	59
MAY	W	59	62	62
	AN	60	63	64
	BN	60	64	64
	D	61	65	65
	C	63	66	66
	AVG	60	64	64
JUN	W	62	65	65
	AN	65	69	69
	BN	66	70	69
	D	68	72	71
	C	68	71	71
	AVG	65	69	68

Alternative 8: Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT	EXISTING CONDITIONS	NAA	A8_LL1
JUL	W	68	70	70
	AN	70	73	73
	BN	70	73	73
	D	70	74	74
	C	70	73	73
	AVG	69	72	72
AUG	W	67	71	71
	AN	69	72	72
	BN	68	71	71
	D	69	72	72
	C	69	72	72
	AVG	68	72	72
SEP	W	65	69	69
	AN	67	71	71
	BN	67	70	70
	D	67	70	70
	C	67	70	70
	AVG	66	70	70
OCT	W	60	63	63
	AN	60	62	62
	BN	59	62	62
	D	59	62	62
	C	61	64	64
	AVG	60	63	63
NOV	W	53	56	56
	AN	52	55	55
	BN	52	55	55
	D	52	55	55
	C	53	56	56
	AVG	52	55	55
DEC	W	47	50	50
	AN	46	49	49
	BN	45	49	48
	D	45	48	48
	C	45	48	48
	AVG	46	49	49

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

Alternative 8: Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT	EXISTING CONDITIONS vs. A8_LLТ	NAA vs. A8_LLТ
JAN	W	2.9 (6.3%)	0 (0%)
	AN	2.9 (6.4%)	0 (0%)
	BN	2.8 (6.1%)	0 (0%)
	D	2.5 (5.7%)	0 (0%)
	C	2.8 (6.1%)	0 (0%)
	AVG	2.8 (6.2%)	0 (0%)
FEB	W	2.9 (5.7%)	0 (0%)
	AN	2.8 (5.6%)	0 (0%)
	BN	2.6 (5.2%)	0 (0%)
	D	2.8 (5.6%)	0 (0%)
	C	2.9 (5.6%)	0 (0%)
	AVG	2.8 (5.6%)	0 (0%)
MAR	W	2.9 (5.5%)	0 (0%)
	AN	3.3 (6.3%)	0 (0%)
	BN	2.6 (4.9%)	0 (0%)
	D	3.2 (5.8%)	0 (0%)
	C	2.8 (5.1%)	0 (0%)
	AVG	3 (5.5%)	0 (0%)
APR	W	2.8 (5.2%)	0 (0%)
	AN	3.2 (5.7%)	0.1 (0.1%)
	BN	3.5 (6.2%)	0 (0%)
	D	3.5 (6.1%)	0 (0%)
	C	3.3 (5.5%)	0 (0%)
	AVG	3.2 (5.7%)	0 (0%)
MAY	W	3.1 (5.4%)	0 (0%)
	AN	3.5 (5.8%)	0.1 (0.1%)
	BN	4.1 (6.7%)	0 (0%)
	D	3.7 (5.9%)	0 (0%)
	C	3.2 (5.2%)	0 (0.1%)
	AVG	3.5 (5.7%)	0 (0%)
JUN	W	2.2 (3.5%)	-0.1 (-0.1%)
	AN	3.8 (5.9%)	0.1 (0.1%)
	BN	3.1 (4.7%)	-0.2 (-0.3%)
	D	3 (4.3%)	-0.4 (-0.6%)
	C	3 (4.3%)	-0.3 (-0.4%)
	AVG	2.9 (4.5%)	-0.2 (-0.3%)
JUL	W	2.3 (3.4%)	0 (0%)
	AN	2.9 (4.2%)	0 (0%)
	BN	2.8 (4%)	0 (0%)
	D	3.2 (4.5%)	0 (0%)
	C	3.2 (4.5%)	0 (0%)
	AVG	2.8 (4.1%)	0 (0%)

Alternative 8: Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT	EXISTING CONDITIONS vs. A8_LL1	NAA vs. A8_LL1
AUG	W	4.1 (6.1%)	0 (0%)
	AN	3.2 (4.7%)	0 (0%)
	BN	3.1 (4.5%)	0 (0%)
	D	3.1 (4.5%)	0 (0%)
	C	3.6 (5.3%)	0 (0.1%)
	AVG	3.5 (5.2%)	0 (0%)
SEP	W	3.9 (6%)	0 (0%)
	AN	3.7 (5.6%)	0 (0%)
	BN	3.7 (5.5%)	0 (0%)
	D	3.7 (5.5%)	0 (0%)
	C	3.7 (5.6%)	0.1 (0.1%)
	AVG	3.8 (5.7%)	0 (0%)
OCT	W	3 (5%)	0 (0%)
	AN	2.9 (4.8%)	0 (0%)
	BN	2.7 (4.5%)	0 (0%)
	D	2.9 (4.9%)	0 (0%)
	C	3.2 (5.3%)	0 (0%)
	AVG	3 (4.9%)	0 (0%)
NOV	W	3 (5.7%)	0 (0%)
	AN	3.2 (6%)	0 (0%)
	BN	3.1 (6%)	0 (0%)
	D	3.1 (5.9%)	0 (0%)
	C	3 (5.6%)	0 (0%)
	AVG	3.1 (5.8%)	0 (0%)
DEC	W	3 (6.4%)	-0.1 (-0.1%)
	AN	2.9 (6.2%)	0 (0%)
	BN	3 (6.6%)	-0.2 (-0.5%)
	D	2.8 (6.1%)	0 (0%)
	C	2.9 (6.4%)	0 (0%)
	AVG	2.9 (6.3%)	-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.

1 **11D.9 Alternative 9**

2 **11D.9.1 Sacramento River at Keswick**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
4 **Sacramento River at Keswick, Year-Round**

Alternative 9: Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	46	47	47
	AN	46	48	48
	BN	47	48	48
	D	47	48	48
	C	47	48	48
	AVG	46	48	48
FEB	W	45	47	47
	AN	46	47	47
	BN	46	47	47
	D	46	48	48
	C	46	48	48
	AVG	46	47	47
MAR	W	46	47	47
	AN	46	48	48
	BN	47	48	48
	D	47	49	49
	C	48	50	50
	AVG	47	48	48
APR	W	47	49	49
	AN	48	50	50
	BN	48	50	50
	D	48	50	50
	C	49	51	51
	AVG	48	50	50
MAY	W	49	50	50
	AN	49	51	51
	BN	49	51	51
	D	49	51	51
	C	51	53	53
	AVG	49	51	51
JUN	W	50	51	51
	AN	50	51	51
	BN	50	51	51
	D	50	52	53
	C	53	55	55
	AVG	50	52	52

Alternative 9: Sacramento River at Keswick				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JUL	W	51	52	52
	AN	51	52	52
	BN	51	52	52
	D	51	54	54
	C	54	59	59
	AVG	51	53	54
AUG	W	52	54	54
	AN	52	54	54
	BN	52	54	54
	D	53	56	56
	C	57	64	64
	AVG	53	56	56
SEP	W	53	55	55
	AN	54	56	56
	BN	54	56	56
	D	55	59	59
	C	60	66	66
	AVG	55	58	58
OCT	W	54	57	57
	AN	54	57	57
	BN	54	57	57
	D	55	58	59
	C	56	60	60
	AVG	54	58	58
NOV	W	53	55	55
	AN	52	55	54
	BN	53	55	55
	D	53	56	56
	C	54	56	56
	AVG	53	55	55
DEC	W	49	50	50
	AN	49	51	51
	BN	50	52	52
	D	50	52	52
	C	51	52	52
	AVG	50	51	51

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

Alternative 9: Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS	
		vs. A9_LL1	NAA vs. A9_LL1
JAN	W	1.3 (2.9%)	0 (0%)
	AN	1.5 (3.1%)	0 (0%)
	BN	1.7 (3.7%)	0 (0.1%)
	D	1.6 (3.5%)	0 (0%)
	C	1.7 (3.7%)	-0.1 (-0.1%)
	AVG	1.5 (3.3%)	0 (0%)
FEB	W	1.6 (3.5%)	0 (0.1%)
	AN	1.6 (3.6%)	0 (0.1%)
	BN	1.6 (3.4%)	0 (0%)
	D	1.7 (3.7%)	0 (0%)
	C	1.7 (3.7%)	-0.1 (-0.1%)
	AVG	1.6 (3.6%)	0 (0%)
MAR	W	1.5 (3.2%)	0 (0%)
	AN	1.7 (3.7%)	0.1 (0.2%)
	BN	1.6 (3.4%)	0 (0%)
	D	1.7 (3.5%)	0 (0%)
	C	1.8 (3.7%)	-0.1 (-0.3%)
	AVG	1.6 (3.5%)	0 (0%)
APR	W	1.6 (3.4%)	0 (-0.1%)
	AN	1.7 (3.5%)	0 (0%)
	BN	1.5 (3%)	0.1 (0.2%)
	D	1.5 (3.2%)	0 (0%)
	C	2 (4.2%)	0 (-0.1%)
	AVG	1.7 (3.4%)	0 (0%)
MAY	W	1.7 (3.6%)	0 (0%)
	AN	1.3 (2.7%)	0 (0%)
	BN	1.4 (2.8%)	0 (0.1%)
	D	1.4 (2.7%)	-0.2 (-0.4%)
	C	2.1 (4.1%)	0.1 (0.1%)
	AVG	1.6 (3.2%)	0 (0%)
JUN	W	1 (2%)	0 (0.1%)
	AN	1.1 (2.3%)	-0.1 (-0.2%)
	BN	1.3 (2.6%)	0.1 (0.1%)
	D	2.2 (4.4%)	0.3 (0.6%)
	C	2.3 (4.4%)	0.2 (0.3%)
	AVG	1.5 (3%)	0.1 (0.2%)
JUL	W	1 (2%)	0.1 (0.2%)
	AN	1.4 (2.8%)	0 (0.1%)
	BN	1.5 (3%)	0.2 (0.4%)
	D	2.8 (5.6%)	0.5 (0.9%)
	C	4.9 (9%)	-0.3 (-0.5%)
	AVG	2.1 (4.1%)	0.1 (0.2%)

Alternative 9: Sacramento River at Keswick			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
AUG	W	1.9 (3.7%)	0 (0%)
	AN	2 (3.8%)	0.1 (0.2%)
	BN	2.4 (4.7%)	0.1 (0.1%)
	D	3.1 (5.8%)	0 (0.1%)
	C	7.3 (12.9%)	-0.2 (-0.3%)
	AVG	3.1 (5.8%)	0 (0%)
SEP	W	1.6 (2.9%)	-0.1 (-0.2%)
	AN	2.1 (3.8%)	-0.2 (-0.3%)
	BN	2.5 (4.7%)	-0.2 (-0.3%)
	D	4.4 (8%)	0 (-0.1%)
	C	6 (10%)	0.1 (0.1%)
	AVG	3.1 (5.6%)	-0.1 (-0.1%)
OCT	W	3.1 (5.7%)	0 (0.1%)
	AN	2.9 (5.4%)	0.1 (0.2%)
	BN	2.7 (5%)	-0.4 (-0.6%)
	D	3.7 (6.7%)	0.1 (0.2%)
	C	3.8 (6.7%)	0 (0%)
	AVG	3.2 (5.9%)	0 (0%)
NOV	W	2.3 (4.4%)	0.1 (0.1%)
	AN	2.1 (4.1%)	-0.1 (-0.1%)
	BN	2.3 (4.4%)	-0.1 (-0.2%)
	D	2.3 (4.4%)	0 (0%)
	C	2.4 (4.4%)	-0.1 (-0.2%)
	AVG	2.3 (4.3%)	0 (-0.1%)
DEC	W	1.2 (2.4%)	-0.1 (-0.1%)
	AN	1.8 (3.7%)	0.1 (0.1%)
	BN	2.1 (4.1%)	0 (0.1%)
	D	1.8 (3.6%)	-0.1 (-0.2%)
	C	2 (3.9%)	0 (0.1%)
	AVG	1.7 (3.4%)	0 (-0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.9.2 Sacramento River at Jelly’s Ferry**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
3 **Sacramento River at Jelly’s Ferry, Year-Round**

Alternative 9: Sacramento River at Jelly’s Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	45	46	47
	D	45	47	47
	C	45	47	47
	AVG	45	47	47
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	49	50
	AN	49	51	51
	BN	49	51	51
	D	50	51	51
	C	50	52	52
	AVG	49	51	51
APR	W	51	53	53
	AN	53	55	55
	BN	53	54	54
	D	52	54	54
	C	52	54	54
	AVG	52	54	54
MAY	W	54	57	57
	AN	55	57	57
	BN	54	57	56
	D	54	56	55
	C	55	57	57
	AVG	54	57	56
JUN	W	55	56	57
	AN	55	56	56
	BN	54	56	56
	D	54	56	57
	C	56	58	58
	AVG	55	56	57
JUL	W	56	57	57
	AN	55	56	56
	BN	55	56	57
	D	55	57	58
	C	57	62	62
	AVG	55	57	58

Alternative 9: Sacramento River at Jelly's Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL
AUG	W	56	59	59
	AN	56	58	58
	BN	56	58	58
	D	56	59	60
	C	59	67	66
	AVG	57	60	60
SEP	W	56	57	57
	AN	57	59	59
	BN	57	60	60
	D	58	63	63
	C	61	67	67
	AVG	58	61	60
OCT	W	54	57	57
	AN	54	57	57
	BN	55	57	57
	D	55	58	58
	C	56	60	60
	AVG	55	58	58
NOV	W	51	53	53
	AN	51	53	53
	BN	51	54	54
	D	51	54	54
	C	52	55	55
	AVG	51	53	53
DEC	W	47	48	48
	AN	47	48	48
	BN	47	49	49
	D	47	49	49
	C	47	49	49
	AVG	47	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Jelly’s Ferry, Year-Round**

Alternative 9: Sacramento River at Jelly’s Ferry			
Month	WYT	EXISTING CONDITIONS	
		vs. A9_LL1	NAA vs. A9_LL1
JAN	W	1.4 (3.2%)	0 (0%)
	AN	1.5 (3.4%)	0 (0%)
	BN	1.7 (3.9%)	0 (0.1%)
	D	1.8 (3.9%)	-0.1 (-0.2%)
	C	2 (4.4%)	-0.2 (-0.4%)
	AVG	1.6 (3.7%)	0 (-0.1%)
FEB	W	1.6 (3.4%)	0 (0%)
	AN	1.6 (3.5%)	0 (0%)
	BN	1.7 (3.6%)	0 (0%)
	D	1.8 (4%)	0 (0%)
	C	1.9 (4.1%)	0 (-0.1%)
	AVG	1.7 (3.7%)	0 (0%)
MAR	W	1.5 (3%)	0 (0%)
	AN	1.6 (3.4%)	0.1 (0.2%)
	BN	1.8 (3.6%)	0.1 (0.2%)
	D	1.6 (3.3%)	0 (-0.1%)
	C	1.7 (3.4%)	-0.1 (-0.2%)
	AVG	1.6 (3.3%)	0 (0%)
APR	W	1.8 (3.5%)	0 (0%)
	AN	1.8 (3.4%)	-0.1 (-0.2%)
	BN	1.8 (3.5%)	0.1 (0.1%)
	D	1.7 (3.3%)	-0.1 (-0.2%)
	C	2 (3.8%)	0 (-0.1%)
	AVG	1.8 (3.5%)	0 (0%)
MAY	W	2.9 (5.4%)	0 (0%)
	AN	1.7 (3%)	0 (0%)
	BN	1.9 (3.5%)	-0.2 (-0.4%)
	D	1 (1.9%)	-0.8 (-1.4%)
	C	1.9 (3.5%)	0 (0%)
	AVG	2 (3.7%)	-0.2 (-0.4%)
JUN	W	1.5 (2.6%)	0.1 (0.1%)
	AN	1.2 (2.2%)	-0.1 (-0.3%)
	BN	1.7 (3.1%)	0.1 (0.2%)
	D	2.1 (3.9%)	0.2 (0.4%)
	C	2.2 (4%)	0.2 (0.4%)
	AVG	1.7 (3.1%)	0.1 (0.2%)
JUL	W	1.1 (1.9%)	0.1 (0.2%)
	AN	1.5 (2.8%)	0.1 (0.2%)
	BN	1.9 (3.5%)	0.3 (0.5%)
	D	2.9 (5.3%)	0.5 (0.9%)
	C	4.8 (8.4%)	-0.2 (-0.3%)
	AVG	2.2 (4%)	0.2 (0.3%)

Alternative 9: Sacramento River at Jelly's Ferry			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
AUG	W	2.6 (4.7%)	0.1 (0.2%)
	AN	2.2 (3.9%)	0.3 (0.5%)
	BN	2.8 (5%)	0.2 (0.3%)
	D	3.2 (5.8%)	0.2 (0.3%)
	C	6.8 (11.4%)	-0.4 (-0.5%)
	AVG	3.3 (5.9%)	0.1 (0.2%)
SEP	W	1 (1.8%)	-0.2 (-0.4%)
	AN	1.2 (2.1%)	-0.1 (-0.2%)
	BN	2.7 (4.8%)	-0.1 (-0.2%)
	D	4.9 (8.4%)	0 (0%)
	C	5.4 (8.8%)	0.1 (0.1%)
	AVG	2.8 (4.9%)	-0.1 (-0.2%)
OCT	W	2.9 (5.3%)	0 (0%)
	AN	2.8 (5.1%)	0.2 (0.3%)
	BN	2.7 (4.9%)	-0.2 (-0.4%)
	D	3.2 (5.8%)	0 (0.1%)
	C	3.4 (6.1%)	0 (0.1%)
	AVG	3 (5.4%)	0 (0%)
NOV	W	2.3 (4.5%)	0 (0%)
	AN	2.2 (4.3%)	0 (0%)
	BN	2.5 (5%)	0 (0%)
	D	2.2 (4.3%)	0 (-0.1%)
	C	2.4 (4.6%)	0 (0.1%)
	AVG	2.3 (4.5%)	0 (0%)
DEC	W	1.1 (2.3%)	-0.1 (-0.1%)
	AN	1.8 (3.8%)	0 (0%)
	BN	2 (4.2%)	0 (0.1%)
	D	1.8 (3.9%)	-0.1 (-0.2%)
	C	2.2 (4.6%)	0.2 (0.5%)
	AVG	1.7 (3.6%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.9.3 Sacramento River at Bend Bridge**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
3 **Sacramento River at Bend Bridge, Year-Round**

Alternative 9: Sacramento River at Bend Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	45	46	46
	D	45	47	46
	C	45	47	47
	AVG	45	47	47
FEB	W	46	47	47
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	50	50
	AN	49	51	51
	BN	49	51	51
	D	50	52	52
	C	50	52	52
	AVG	49	51	51
APR	W	51	53	53
	AN	53	55	55
	BN	53	55	55
	D	53	55	55
	C	52	54	54
	AVG	52	54	54
MAY	W	54	57	57
	AN	55	57	57
	BN	55	57	57
	D	55	56	56
	C	55	57	57
	AVG	55	57	57
JUN	W	56	57	57
	AN	55	57	56
	BN	55	57	57
	D	55	57	57
	C	57	59	59
	AVG	55	57	57
JUL	W	56	57	57
	AN	55	57	57
	BN	55	57	57
	D	56	58	59
	C	58	63	63
	AVG	56	58	58

Alternative 9: Sacramento River at Bend Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL
AUG	W	57	59	59
	AN	57	59	59
	BN	56	59	59
	D	57	60	60
	C	60	67	67
	AVG	57	60	61
SEP	W	57	58	58
	AN	58	59	59
	BN	58	60	60
	D	58	63	63
	C	62	67	67
	AVG	58	61	61
OCT	W	54	57	57
	AN	55	57	57
	BN	55	58	57
	D	55	58	58
	C	56	60	60
	AVG	55	58	58
NOV	W	51	53	53
	AN	51	53	53
	BN	51	53	54
	D	51	54	53
	C	52	54	54
	AVG	51	53	53
DEC	W	47	48	48
	AN	46	48	48
	BN	47	49	49
	D	46	48	48
	C	47	49	49
	AVG	47	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Bend Bridge, Year-Round**

Alternative 9: Sacramento River at Bend Bridge			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
JAN	W	1.5 (3.2%)	0 (0%)
	AN	1.6 (3.5%)	0 (0%)
	BN	1.8 (4%)	0 (0.1%)
	D	1.8 (4%)	-0.1 (-0.2%)
	C	2 (4.5%)	-0.2 (-0.4%)
	AVG	1.7 (3.7%)	0 (-0.1%)
FEB	W	1.6 (3.5%)	0 (0%)
	AN	1.6 (3.5%)	0 (0%)
	BN	1.7 (3.7%)	0 (0%)
	D	1.9 (4.1%)	0 (0%)
	C	2 (4.2%)	0 (-0.1%)
	AVG	1.7 (3.8%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0%)
	AN	1.7 (3.4%)	0.1 (0.2%)
	BN	1.8 (3.6%)	0.1 (0.1%)
	D	1.7 (3.3%)	0 (0%)
	C	1.7 (3.5%)	-0.1 (-0.2%)
	AVG	1.6 (3.3%)	0 (0%)
APR	W	1.8 (3.5%)	0 (0%)
	AN	1.8 (3.5%)	-0.1 (-0.2%)
	BN	1.9 (3.5%)	0.1 (0.1%)
	D	1.8 (3.3%)	-0.1 (-0.2%)
	C	2 (3.8%)	0 (-0.1%)
	AVG	1.8 (3.5%)	0 (-0.1%)
MAY	W	3 (5.5%)	0 (0%)
	AN	1.7 (3.1%)	0 (0%)
	BN	1.9 (3.5%)	-0.3 (-0.5%)
	D	1 (1.9%)	-0.8 (-1.4%)
	C	1.9 (3.5%)	0 (0%)
	AVG	2 (3.7%)	-0.2 (-0.4%)
JUN	W	1.5 (2.7%)	0.1 (0.1%)
	AN	1.2 (2.3%)	-0.1 (-0.3%)
	BN	1.8 (3.2%)	0.1 (0.2%)
	D	2.2 (3.9%)	0.2 (0.3%)
	C	2.2 (3.9%)	0.2 (0.4%)
	AVG	1.8 (3.2%)	0.1 (0.2%)
JUL	W	1.1 (2%)	0.1 (0.2%)
	AN	1.5 (2.8%)	0.1 (0.2%)
	BN	2 (3.6%)	0.3 (0.5%)
	D	2.9 (5.2%)	0.5 (0.9%)
	C	4.8 (8.3%)	-0.2 (-0.3%)
	AVG	2.3 (4%)	0.2 (0.3%)

Alternative 9: Sacramento River at Bend Bridge			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
AUG	W	2.7 (4.8%)	0.1 (0.2%)
	AN	2.3 (4%)	0.3 (0.6%)
	BN	2.9 (5.1%)	0.2 (0.3%)
	D	3.3 (5.8%)	0.2 (0.3%)
	C	6.7 (11.2%)	-0.4 (-0.6%)
	AVG	3.4 (5.9%)	0.1 (0.2%)
SEP	W	1 (1.8%)	-0.2 (-0.4%)
	AN	1.2 (2%)	-0.1 (-0.1%)
	BN	2.8 (4.8%)	-0.1 (-0.2%)
	D	4.9 (8.5%)	0 (0%)
	C	5.3 (8.6%)	0.1 (0.1%)
	AVG	2.8 (4.9%)	-0.1 (-0.2%)
OCT	W	2.8 (5.2%)	0 (0%)
	AN	2.8 (5%)	0.2 (0.3%)
	BN	2.7 (5%)	-0.2 (-0.4%)
	D	3.2 (5.8%)	0 (0.1%)
	C	3.4 (6.1%)	0 (0.1%)
	AVG	3 (5.4%)	0 (0%)
NOV	W	2.3 (4.6%)	0 (0%)
	AN	2.2 (4.4%)	0 (0%)
	BN	2.6 (5.1%)	0 (0.1%)
	D	2.3 (4.4%)	0 (-0.1%)
	C	2.4 (4.7%)	0 (0.1%)
	AVG	2.4 (4.6%)	0 (0%)
DEC	W	1.1 (2.4%)	-0.1 (-0.1%)
	AN	1.8 (3.9%)	0 (0%)
	BN	2 (4.3%)	0 (0.1%)
	D	1.9 (4%)	-0.1 (-0.2%)
	C	2.2 (4.8%)	0.2 (0.5%)
	AVG	1.7 (3.6%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.9.4 Sacramento River at Red Bluff Diversion Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
3 **Sacramento River at Red Bluff Diversion Dam, Year-Round**

Alternative 9: Sacramento River at Red Bluff Diversion Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	45	46	46
	AN	45	47	47
	BN	44	46	46
	D	44	46	46
	C	44	47	46
	AVG	45	46	46
FEB	W	46	47	48
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	47	49	49
	AVG	46	48	48
MAR	W	48	50	50
	AN	49	51	51
	BN	49	51	51
	D	50	52	52
	C	51	53	52
	AVG	49	51	51
APR	W	52	54	54
	AN	53	55	55
	BN	54	55	55
	D	54	55	55
	C	53	55	55
	AVG	53	55	55
MAY	W	55	58	58
	AN	56	58	58
	BN	56	58	58
	D	56	58	57
	C	57	59	59
	AVG	56	58	58
JUN	W	57	59	59
	AN	57	58	58
	BN	57	58	59
	D	57	59	59
	C	58	60	60
	AVG	57	59	59
JUL	W	58	59	59
	AN	57	59	59
	BN	57	59	59
	D	57	60	60
	C	60	64	64
	AVG	58	60	60

Alternative 9: Sacramento River at Red Bluff Diversion Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL
AUG	W	58	61	61
	AN	59	61	61
	BN	58	61	61
	D	59	62	62
	C	61	68	68
	AVG	59	62	62
SEP	W	58	59	59
	AN	59	60	60
	BN	59	62	62
	D	59	64	65
	C	63	68	68
	AVG	59	62	62
OCT	W	55	57	57
	AN	55	57	58
	BN	55	58	58
	D	55	59	59
	C	56	60	60
	AVG	55	58	58
NOV	W	50	53	53
	AN	50	53	53
	BN	51	53	53
	D	51	53	53
	C	52	54	54
	AVG	51	53	53
DEC	W	46	48	48
	AN	46	48	48
	BN	46	48	48
	D	46	48	48
	C	46	48	49
	AVG	46	48	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Red Bluff Diversion Dam, Year-Round**

Alternative 9: Sacramento River at Red Bluff Diversion Dam			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
JAN	W	1.5 (3.3%)	0 (0%)
	AN	1.6 (3.6%)	0 (0%)
	BN	1.8 (4.1%)	0 (0.1%)
	D	1.9 (4.2%)	-0.1 (-0.2%)
	C	2.1 (4.7%)	-0.2 (-0.5%)
	AVG	1.7 (3.9%)	0 (-0.1%)
FEB	W	1.6 (3.5%)	0 (0%)
	AN	1.7 (3.6%)	0 (0%)
	BN	1.8 (3.8%)	0 (0%)
	D	2 (4.2%)	0 (0%)
	C	2.1 (4.4%)	0 (-0.1%)
	AVG	1.8 (3.9%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0%)
	AN	1.7 (3.4%)	0.1 (0.2%)
	BN	1.8 (3.7%)	0.1 (0.2%)
	D	1.7 (3.4%)	0 (0%)
	C	1.8 (3.5%)	-0.1 (-0.1%)
	AVG	1.7 (3.4%)	0 (0%)
APR	W	1.8 (3.6%)	0 (0.1%)
	AN	1.9 (3.5%)	-0.1 (-0.2%)
	BN	1.9 (3.6%)	0.1 (0.1%)
	D	1.8 (3.4%)	-0.1 (-0.2%)
	C	2 (3.8%)	0 (-0.1%)
	AVG	1.9 (3.5%)	0 (-0.1%)
MAY	W	3.1 (5.5%)	0 (0%)
	AN	1.8 (3.2%)	0 (0%)
	BN	2 (3.6%)	-0.3 (-0.5%)
	D	1 (1.9%)	-0.9 (-1.5%)
	C	2 (3.5%)	0 (0%)
	AVG	2.1 (3.7%)	-0.2 (-0.4%)
JUN	W	1.7 (2.9%)	0.1 (0.1%)
	AN	1.4 (2.4%)	-0.2 (-0.3%)
	BN	1.9 (3.4%)	0.1 (0.2%)
	D	2.2 (3.8%)	0.1 (0.2%)
	C	2.2 (3.9%)	0.2 (0.4%)
	AVG	1.9 (3.3%)	0.1 (0.1%)
JUL	W	1.2 (2.1%)	0.1 (0.2%)
	AN	1.6 (2.8%)	0.1 (0.2%)
	BN	2.1 (3.7%)	0.3 (0.5%)
	D	3 (5.2%)	0.5 (0.8%)
	C	4.8 (8%)	-0.1 (-0.2%)
	AVG	2.3 (4%)	0.2 (0.3%)

Alternative 9: Sacramento River at Red Bluff Diversion Dam			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
AUG	W	2.9 (5%)	0.1 (0.2%)
	AN	2.4 (4.1%)	0.4 (0.6%)
	BN	3 (5.2%)	0.2 (0.3%)
	D	3.3 (5.7%)	0.2 (0.4%)
	C	6.5 (10.7%)	-0.4 (-0.6%)
	AVG	3.5 (5.9%)	0.1 (0.2%)
SEP	W	0.9 (1.6%)	-0.3 (-0.4%)
	AN	1.1 (1.8%)	-0.1 (-0.1%)
	BN	2.9 (4.9%)	-0.1 (-0.2%)
	D	5 (8.5%)	0 (0.1%)
	C	5.3 (8.5%)	0.1 (0.1%)
	AVG	2.8 (4.8%)	-0.1 (-0.1%)
OCT	W	2.8 (5.2%)	0 (0%)
	AN	2.8 (5.1%)	0.2 (0.3%)
	BN	2.8 (5%)	-0.2 (-0.3%)
	D	3.1 (5.6%)	0 (0%)
	C	3.4 (6.1%)	0.1 (0.1%)
	AVG	3 (5.4%)	0 (0%)
NOV	W	2.4 (4.7%)	0 (0%)
	AN	2.3 (4.5%)	0 (0%)
	BN	2.6 (5.2%)	0 (0.1%)
	D	2.3 (4.5%)	0 (-0.1%)
	C	2.5 (4.8%)	0 (0.1%)
	AVG	2.4 (4.8%)	0 (0%)
DEC	W	1.2 (2.5%)	-0.1 (-0.1%)
	AN	1.9 (4.1%)	0 (0%)
	BN	2 (4.4%)	0 (0.1%)
	D	1.9 (4.2%)	-0.1 (-0.1%)
	C	2.3 (5%)	0.3 (0.5%)
	AVG	1.8 (3.8%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.9.5 Sacramento River at Hamilton City**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
3 **Sacramento River at Hamilton City, Year-Round**

Alternative 9: Sacramento River at Hamilton City				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	45	47	47
	AN	45	47	47
	BN	44	46	46
	D	44	46	46
	C	44	47	47
	AVG	45	47	47
FEB	W	46	48	48
	AN	47	48	48
	BN	46	48	48
	D	47	49	49
	C	48	50	50
	AVG	47	49	49
MAR	W	49	51	51
	AN	51	52	52
	BN	51	53	53
	D	52	54	54
	C	52	54	54
	AVG	51	52	53
APR	W	54	55	56
	AN	55	57	57
	BN	56	58	58
	D	56	58	58
	C	56	58	58
	AVG	55	57	57
MAY	W	58	62	62
	AN	60	62	62
	BN	59	62	61
	D	59	61	60
	C	60	62	62
	AVG	59	62	61
JUN	W	61	63	63
	AN	61	62	62
	BN	60	62	62
	D	60	63	63
	C	61	63	64
	AVG	61	63	63
JUL	W	62	63	63
	AN	61	63	63
	BN	61	63	64
	D	61	64	64
	C	63	68	68
	AVG	62	64	64

Alternative 9: Sacramento River at Hamilton City				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL
AUG	W	62	65	65
	AN	62	64	65
	BN	62	65	65
	D	62	65	66
	C	65	71	71
	AVG	62	66	66
SEP	W	60	61	61
	AN	62	63	63
	BN	62	65	65
	D	62	67	67
	C	64	69	69
	AVG	62	65	64
OCT	W	55	58	58
	AN	56	58	58
	BN	56	59	59
	D	56	59	59
	C	57	60	61
	AVG	56	59	59
NOV	W	50	53	53
	AN	50	53	53
	BN	50	53	53
	D	51	53	53
	C	52	54	54
	AVG	51	53	53
DEC	W	46	47	47
	AN	46	48	48
	BN	45	48	48
	D	45	48	48
	C	45	48	48
	AVG	46	47	48

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Sacramento River at Hamilton City, Year-Round**

Alternative 9: Sacramento River at Hamilton City			
Month	WYT	EXISTING CONDITIONS	
		vs. A9_LL1	NAA vs. A9_LL1
JAN	W	1.6 (3.6%)	0 (0%)
	AN	1.8 (3.9%)	0 (0%)
	BN	2 (4.4%)	0 (0%)
	D	2.1 (4.7%)	-0.1 (-0.2%)
	C	2.3 (5.2%)	-0.2 (-0.4%)
	AVG	1.9 (4.3%)	0 (-0.1%)
FEB	W	1.7 (3.6%)	0 (0%)
	AN	1.8 (3.8%)	0 (0%)
	BN	1.9 (4%)	0 (0%)
	D	2.1 (4.5%)	0 (0%)
	C	2.2 (4.6%)	0 (-0.1%)
	AVG	1.9 (4%)	0 (0%)
MAR	W	1.5 (3.1%)	0 (0%)
	AN	1.7 (3.4%)	0.1 (0.2%)
	BN	1.9 (3.8%)	0.1 (0.1%)
	D	1.8 (3.5%)	0 (0%)
	C	1.9 (3.6%)	-0.1 (-0.1%)
	AVG	1.7 (3.4%)	0 (0%)
APR	W	1.9 (3.6%)	0 (0.1%)
	AN	2 (3.6%)	-0.1 (-0.2%)
	BN	2 (3.7%)	0 (0%)
	D	1.9 (3.3%)	-0.2 (-0.3%)
	C	2 (3.7%)	0 (0%)
	AVG	2 (3.5%)	0 (-0.1%)
MAY	W	3.2 (5.6%)	0 (0%)
	AN	2 (3.3%)	0 (-0.1%)
	BN	2.1 (3.5%)	-0.4 (-0.7%)
	D	1 (1.7%)	-1 (-1.7%)
	C	2 (3.3%)	0 (-0.1%)
	AVG	2.2 (3.7%)	-0.3 (-0.5%)
JUN	W	2 (3.2%)	0 (0%)
	AN	1.5 (2.5%)	-0.2 (-0.3%)
	BN	2.2 (3.6%)	0.1 (0.2%)
	D	2.2 (3.7%)	0.1 (0.1%)
	C	2.3 (3.8%)	0.2 (0.4%)
	AVG	2 (3.4%)	0 (0.1%)
JUL	W	1.4 (2.2%)	0.1 (0.2%)
	AN	1.8 (2.9%)	0.1 (0.2%)
	BN	2.4 (3.9%)	0.3 (0.5%)
	D	3 (4.9%)	0.5 (0.8%)
	C	4.8 (7.6%)	0 (0%)
	AVG	2.5 (4%)	0.2 (0.3%)

Alternative 9: Sacramento River at Hamilton City			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
AUG	W	3.4 (5.5%)	0.2 (0.2%)
	AN	2.6 (4.2%)	0.5 (0.8%)
	BN	3.2 (5.2%)	0.2 (0.4%)
	D	3.5 (5.6%)	0.3 (0.5%)
	C	6.1 (9.5%)	-0.5 (-0.7%)
	AVG	3.7 (5.9%)	0.2 (0.2%)
SEP	W	0.7 (1.2%)	-0.3 (-0.5%)
	AN	0.8 (1.3%)	0 (0%)
	BN	3.1 (5%)	-0.1 (-0.2%)
	D	5.2 (8.3%)	0.1 (0.1%)
	C	5 (7.8%)	0.1 (0.1%)
	AVG	2.8 (4.5%)	-0.1 (-0.2%)
OCT	W	2.8 (5%)	0 (0%)
	AN	2.8 (5.1%)	0.2 (0.3%)
	BN	2.9 (5.1%)	0 (0%)
	D	3 (5.3%)	0 (0%)
	C	3.4 (5.9%)	0.1 (0.2%)
	AVG	2.9 (5.2%)	0 (0.1%)
NOV	W	2.4 (4.8%)	0 (0%)
	AN	2.4 (4.8%)	0 (0%)
	BN	2.7 (5.4%)	0.1 (0.1%)
	D	2.4 (4.8%)	0 (0%)
	C	2.6 (5.1%)	0 (0.1%)
	AVG	2.5 (4.9%)	0 (0%)
DEC	W	1.4 (3%)	-0.1 (-0.1%)
	AN	2 (4.4%)	0 (0%)
	BN	2.2 (4.8%)	0 (0.1%)
	D	2.1 (4.6%)	0 (-0.1%)
	C	2.5 (5.5%)	0.2 (0.5%)
	AVG	1.9 (4.2%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.9.6 Trinity River below Lewiston Reservoir**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
3 **Trinity River below Lewiston Reservoir, Year-Round**

Alternative 9: Trinity River below Lewiston Reservoir				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	41	43	43
	AN	38	41	40
	BN	39	41	41
	D	39	41	41
	C	39	42	41
	AVG	39	42	42
FEB	W	43	45	45
	AN	43	45	45
	BN	42	44	44
	D	42	45	45
	C	43	45	46
	AVG	43	45	45
MAR	W	46	48	48
	AN	47	49	49
	BN	47	48	49
	D	48	50	50
	C	48	50	50
	AVG	47	49	49
APR	W	49	51	51
	AN	50	52	52
	BN	51	53	53
	D	51	53	53
	C	50	52	52
	AVG	50	52	52
MAY	W	46	48	48
	AN	46	48	48
	BN	46	49	49
	D	47	49	49
	C	49	52	52
	AVG	47	49	49
JUN	W	48	51	51
	AN	51	52	52
	BN	52	53	53
	D	52	54	54
	C	56	59	58
	AVG	51	53	53
JUL	W	51	55	54
	AN	52	54	53
	BN	52	55	55
	D	51	54	53
	C	53	60	60
	AVG	51	55	55

Alternative 9: Trinity River below Lewiston Reservoir				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL
AUG	W	52	54	54
	AN	51	53	53
	BN	52	55	55
	D	50	54	54
	C	54	63	64
	AVG	52	56	55
SEP	W	49	51	51
	AN	50	51	52
	BN	51	55	55
	D	50	56	56
	C	57	62	62
	AVG	51	54	54
OCT	W	48	51	51
	AN	49	52	52
	BN	50	53	53
	D	50	52	52
	C	51	56	56
	AVG	49	52	52
NOV	W	44	47	47
	AN	45	47	47
	BN	45	47	47
	D	44	47	47
	C	46	48	48
	AVG	45	47	47
DEC	W	41	43	43
	AN	39	43	43
	BN	40	42	42
	D	40	42	42
	C	39	41	41
	AVG	40	42	42

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River below Lewiston Reservoir, Year-Round**

Alternative 9: Trinity River below Lewiston Reservoir			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
JAN	W	1.9 (4.7%)	-0.1 (-0.3%)
	AN	2.1 (5.4%)	-0.3 (-0.8%)
	BN	1.9 (4.9%)	-0.2 (-0.5%)
	D	2.5 (6.6%)	-0.2 (-0.4%)
	C	2 (5.1%)	-0.3 (-0.7%)
	AVG	2.1 (5.3%)	-0.2 (-0.5%)
FEB	W	2.3 (5.4%)	-0.1 (-0.1%)
	AN	2.2 (5.2%)	0 (-0.1%)
	BN	2.1 (5.1%)	0 (0%)
	D	2.3 (5.4%)	0 (0.1%)
	C	2.4 (5.5%)	0.2 (0.4%)
	AVG	2.3 (5.3%)	0 (0%)
MAR	W	2.1 (4.5%)	0.1 (0.2%)
	AN	1.5 (3.2%)	-0.2 (-0.4%)
	BN	2.1 (4.5%)	0.3 (0.6%)
	D	1.5 (3.1%)	0 (0%)
	C	2.1 (4.3%)	0 (0%)
	AVG	1.9 (4%)	0.1 (0.1%)
APR	W	2.1 (4.3%)	0.6 (1.2%)
	AN	2.1 (4.3%)	0.2 (0.3%)
	BN	2.5 (4.9%)	0 (0%)
	D	2.2 (4.3%)	0 (-0.1%)
	C	2.2 (4.3%)	0 (0.1%)
	AVG	2.2 (4.4%)	0.2 (0.4%)
MAY	W	2.5 (5.4%)	0 (0.1%)
	AN	2.3 (5%)	0 (0%)
	BN	2.2 (4.8%)	0 (0%)
	D	2.5 (5.4%)	-0.1 (-0.1%)
	C	3.1 (6.4%)	0 (0%)
	AVG	2.5 (5.4%)	0 (0%)
JUN	W	2.2 (4.6%)	0 (0%)
	AN	1.4 (2.7%)	0.3 (0.5%)
	BN	1.7 (3.3%)	-0.1 (-0.2%)
	D	2.2 (4.2%)	-0.1 (-0.2%)
	C	2.7 (4.8%)	-1 (-1.7%)
	AVG	2.1 (4.1%)	-0.2 (-0.3%)
JUL	W	3.4 (6.7%)	-0.4 (-0.7%)
	AN	1.8 (3.6%)	-0.2 (-0.3%)
	BN	2.6 (5.1%)	-0.6 (-1.1%)
	D	2.4 (4.7%)	-0.3 (-0.5%)
	C	7.3 (13.8%)	0.4 (0.7%)
	AVG	3.4 (6.6%)	-0.3 (-0.5%)

Alternative 9: Trinity River below Lewiston Reservoir			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
AUG	W	2.1 (4%)	0 (0%)
	AN	2.1 (4%)	-0.2 (-0.3%)
	BN	2.8 (5.3%)	-0.2 (-0.4%)
	D	3.7 (7.3%)	-0.4 (-0.7%)
	C	10 (18.6%)	0.6 (0.9%)
	AVG	3.7 (7.2%)	0 (-0.1%)
SEP	W	1.8 (3.8%)	-0.1 (-0.1%)
	AN	1.8 (3.6%)	0.1 (0.1%)
	BN	3.4 (6.6%)	-0.1 (-0.2%)
	D	6.3 (12.6%)	0.4 (0.8%)
	C	5.1 (9%)	-0.6 (-1%)
	AVG	3.6 (7%)	0 (0%)
OCT	W	3 (6.3%)	-0.2 (-0.4%)
	AN	2.4 (4.8%)	0 (0%)
	BN	3 (6%)	0.2 (0.3%)
	D	2.5 (5%)	0.2 (0.5%)
	C	4.4 (8.6%)	0 (0%)
	AVG	3 (6.1%)	0 (0%)
NOV	W	2.5 (5.7%)	-0.1 (-0.1%)
	AN	2.5 (5.6%)	0.3 (0.6%)
	BN	2.5 (5.7%)	0 (0%)
	D	2.9 (6.5%)	0.2 (0.3%)
	C	2.3 (4.9%)	0.2 (0.4%)
	AVG	2.6 (5.8%)	0.1 (0.2%)
DEC	W	2.3 (5.6%)	0.2 (0.6%)
	AN	3.4 (8.6%)	-0.2 (-0.5%)
	BN	2.4 (6.1%)	-0.1 (-0.2%)
	D	2.1 (5.3%)	0.3 (0.7%)
	C	2 (5.2%)	0.3 (0.7%)
	AVG	2.4 (6%)	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.

1 **11D.9.7 Trinity River at Douglas City**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
3 **Trinity River at Douglas City, Year-Round**

Alternative 9: Trinity River at Douglas City				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	40	42	42
	AN	39	40	40
	BN	38	40	40
	D	38	40	40
	C	39	41	41
	AVG	39	41	41
FEB	W	43	45	45
	AN	43	45	45
	BN	42	44	44
	D	43	44	44
	C	43	45	45
	AVG	43	45	45
MAR	W	46	47	47
	AN	47	48	48
	BN	47	48	48
	D	48	49	49
	C	48	49	49
	AVG	47	48	48
APR	W	51	52	52
	AN	52	53	53
	BN	52	54	54
	D	53	54	54
	C	52	54	54
	AVG	52	53	53
MAY	W	48	50	50
	AN	48	50	50
	BN	49	51	51
	D	49	51	51
	C	52	55	55
	AVG	49	51	51
JUN	W	51	54	54
	AN	54	55	55
	BN	55	57	57
	D	57	59	59
	C	60	63	62
	AVG	55	57	57
JUL	W	57	61	60
	AN	58	60	60
	BN	59	62	61
	D	59	62	62
	C	62	67	66
	AVG	59	62	62

Alternative 9: Trinity River at Douglas City				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL
AUG	W	60	62	62
	AN	59	61	61
	BN	60	63	63
	D	58	62	62
	C	61	67	68
	AVG	60	63	63
SEP	W	55	57	57
	AN	55	57	57
	BN	56	59	59
	D	55	60	60
	C	59	64	63
	AVG	56	59	59
OCT	W	50	53	53
	AN	51	53	53
	BN	52	54	54
	D	51	53	53
	C	53	56	56
	AVG	51	54	54
NOV	W	44	46	46
	AN	45	47	47
	BN	45	47	47
	D	44	46	46
	C	46	47	48
	AVG	44	47	47
DEC	W	41	43	43
	AN	40	42	42
	BN	39	42	42
	D	40	42	42
	C	39	41	41
	AVG	40	42	42

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River at Douglas City, Year-Round**

Alternative 9: Trinity River at Douglas City			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
JAN	W	1.5 (3.7%)	-0.1 (-0.2%)
	AN	1.5 (3.8%)	-0.1 (-0.3%)
	BN	1.4 (3.6%)	-0.1 (-0.2%)
	D	2.1 (5.4%)	-0.1 (-0.2%)
	C	1.9 (5%)	-0.1 (-0.3%)
	AVG	1.7 (4.3%)	-0.1 (-0.3%)
FEB	W	1.6 (3.6%)	0 (-0.1%)
	AN	1.5 (3.5%)	0 (0%)
	BN	1.6 (3.8%)	0 (0%)
	D	1.6 (3.7%)	0 (0%)
	C	1.9 (4.4%)	0.1 (0.2%)
	AVG	1.6 (3.8%)	0 (0%)
MAR	W	1.2 (2.7%)	0 (0.1%)
	AN	0.9 (2%)	-0.1 (-0.1%)
	BN	1.2 (2.6%)	0.1 (0.1%)
	D	1 (2.2%)	0 (0%)
	C	1.5 (3.2%)	0 (0%)
	AVG	1.2 (2.5%)	0 (0%)
APR	W	1.4 (2.9%)	0.2 (0.4%)
	AN	1.5 (2.8%)	0.1 (0.2%)
	BN	1.7 (3.2%)	0 (0%)
	D	1.7 (3.2%)	0 (-0.1%)
	C	1.8 (3.5%)	0 (0%)
	AVG	1.6 (3.1%)	0.1 (0.1%)
MAY	W	2.3 (4.9%)	0 (0.1%)
	AN	2.2 (4.7%)	0 (0%)
	BN	2.1 (4.4%)	0 (0%)
	D	2.4 (4.9%)	-0.1 (-0.1%)
	C	3 (5.8%)	0 (0%)
	AVG	2.4 (4.9%)	0 (0%)
JUN	W	2.1 (4.1%)	0 (0%)
	AN	1.2 (2.2%)	0.2 (0.4%)
	BN	1.8 (3.2%)	-0.1 (-0.1%)
	D	2.3 (4%)	-0.1 (-0.1%)
	C	2.5 (4.2%)	-0.6 (-1%)
	AVG	2 (3.7%)	-0.1 (-0.2%)
JUL	W	3.5 (6.1%)	-0.3 (-0.4%)
	AN	2.1 (3.7%)	-0.1 (-0.2%)
	BN	2.4 (4%)	-0.3 (-0.5%)
	D	2.6 (4.3%)	-0.1 (-0.2%)
	C	3.8 (6.2%)	-0.8 (-1.2%)
	AVG	2.9 (5%)	-0.3 (-0.5%)

Alternative 9: Trinity River at Douglas City			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
AUG	W	2.5 (4.3%)	0 (0%)
	AN	2.5 (4.3%)	-0.1 (-0.1%)
	BN	2.9 (4.9%)	-0.1 (-0.2%)
	D	3.5 (6%)	-0.2 (-0.3%)
	C	7.6 (12.5%)	1.3 (2%)
	AVG	3.6 (6%)	0.1 (0.2%)
SEP	W	2.4 (4.4%)	0 (-0.1%)
	AN	2.3 (4.3%)	0 (0.1%)
	BN	3.3 (5.9%)	-0.1 (-0.1%)
	D	4.9 (9%)	0.3 (0.4%)
	C	3.8 (6.4%)	-1.5 (-2.4%)
	AVG	3.3 (5.9%)	-0.2 (-0.3%)
OCT	W	2.4 (4.8%)	-0.1 (-0.3%)
	AN	1.9 (3.7%)	0 (0%)
	BN	2.5 (4.7%)	0.1 (0.1%)
	D	2.1 (4.1%)	0.1 (0.3%)
	C	3.1 (5.8%)	0 (0%)
	AVG	2.4 (4.7%)	0 (0%)
NOV	W	2.1 (4.7%)	0 (0%)
	AN	2.1 (4.8%)	0.1 (0.3%)
	BN	2.2 (4.9%)	0 (0%)
	D	2.3 (5.1%)	0.1 (0.1%)
	C	1.9 (4.2%)	0 (0.1%)
	AVG	2.1 (4.8%)	0 (0.1%)
DEC	W	1.5 (3.6%)	0.1 (0.2%)
	AN	2.3 (5.7%)	-0.1 (-0.3%)
	BN	2.1 (5.2%)	-0.1 (-0.1%)
	D	1.9 (4.7%)	0.2 (0.4%)
	C	2.3 (5.9%)	0.1 (0.2%)
	AVG	1.9 (4.7%)	0 (0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.9.8 Trinity River below North Fork**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
3 **Trinity River below North Fork, Year-Round**

Alternative 9: Trinity River below North Fork				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	40	41	41
	AN	38	39	39
	BN	38	39	39
	D	38	39	39
	C	38	40	40
	AVG	39	40	40
FEB	W	43	44	44
	AN	43	44	44
	BN	43	44	44
	D	43	44	44
	C	43	45	45
	AVG	43	44	44
MAR	W	46	47	47
	AN	46	47	47
	BN	46	47	47
	D	47	48	48
	C	48	49	49
	AVG	47	47	47
APR	W	53	53	53
	AN	54	54	54
	BN	54	55	55
	D	54	55	55
	C	54	55	55
	AVG	53	54	54
MAY	W	50	52	52
	AN	50	52	52
	BN	51	53	53
	D	51	54	54
	C	54	57	57
	AVG	51	53	53
JUN	W	55	57	57
	AN	58	58	59
	BN	60	61	61
	D	62	64	64
	C	63	66	65
	AVG	59	61	61
JUL	W	63	66	66
	AN	63	66	66
	BN	65	67	67
	D	65	68	68
	C	68	71	71
	AVG	65	67	67

Alternative 9: Trinity River below North Fork				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL
AUG	W	65	68	68
	AN	64	67	67
	BN	65	68	68
	D	64	67	67
	C	65	69	71
	AVG	65	68	68
SEP	W	59	62	62
	AN	59	61	61
	BN	59	62	62
	D	58	62	62
	C	61	64	63
	AVG	59	62	62
OCT	W	53	55	55
	AN	53	55	55
	BN	54	56	56
	D	53	54	54
	C	54	56	56
	AVG	53	55	55
NOV	W	44	45	45
	AN	44	46	46
	BN	44	46	46
	D	44	45	45
	C	45	47	47
	AVG	44	46	46
DEC	W	41	42	42
	AN	40	42	41
	BN	39	41	41
	D	40	41	41
	C	38	40	40
	AVG	40	41	41

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Trinity River below North Fork, Year-Round**

Alternative 9: Trinity River below North Fork			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
JAN	W	1.1 (2.7%)	-0.1 (-0.1%)
	AN	1 (2.6%)	0 (-0.1%)
	BN	1 (2.7%)	0 (-0.1%)
	D	1.5 (4.1%)	-0.1 (-0.2%)
	C	1.6 (4.3%)	-0.1 (-0.1%)
	AVG	1.2 (3.2%)	-0.1 (-0.1%)
FEB	W	1.1 (2.4%)	0 (0%)
	AN	1 (2.3%)	0 (0%)
	BN	1.1 (2.5%)	-0.1 (-0.1%)
	D	1.1 (2.5%)	0 (0%)
	C	1.4 (3.3%)	0 (0.1%)
	AVG	1.1 (2.6%)	0 (0%)
MAR	W	0.7 (1.6%)	0 (0%)
	AN	0.6 (1.3%)	0 (0%)
	BN	0.8 (1.6%)	0 (0%)
	D	0.7 (1.5%)	0 (0%)
	C	1.1 (2.2%)	0 (0%)
	AVG	0.8 (1.7%)	0 (0%)
APR	W	0.9 (1.7%)	0.1 (0.1%)
	AN	0.9 (1.7%)	0 (0%)
	BN	1.1 (2%)	0 (0%)
	D	1.2 (2.2%)	0 (0%)
	C	1.4 (2.6%)	0 (0%)
	AVG	1.1 (2%)	0 (0%)
MAY	W	2.1 (4.2%)	0 (0%)
	AN	2.1 (4.1%)	0 (0%)
	BN	1.9 (3.7%)	0 (0%)
	D	2.2 (4.3%)	0 (0%)
	C	2.6 (4.9%)	0 (0%)
	AVG	2.2 (4.2%)	0 (0%)
JUN	W	1.8 (3.3%)	0 (0%)
	AN	0.9 (1.5%)	0.1 (0.2%)
	BN	1.7 (2.8%)	0 (-0.1%)
	D	2.2 (3.5%)	0 (-0.1%)
	C	2.2 (3.5%)	-0.3 (-0.5%)
	AVG	1.8 (3.1%)	0 (-0.1%)
JUL	W	3.2 (5.2%)	-0.2 (-0.2%)
	AN	2.1 (3.3%)	-0.1 (-0.1%)
	BN	2.1 (3.3%)	-0.1 (-0.2%)
	D	2.4 (3.8%)	-0.1 (-0.1%)
	C	2.9 (4.3%)	-0.4 (-0.6%)
	AVG	2.7 (4.1%)	-0.2 (-0.2%)

Alternative 9: Trinity River below North Fork			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
AUG	W	2.5 (3.9%)	0 (0%)
	AN	2.6 (4.1%)	0 (0%)
	BN	2.8 (4.3%)	-0.1 (-0.1%)
	D	3.2 (5%)	-0.1 (-0.1%)
	C	5.6 (8.6%)	1.7 (2.5%)
	AVG	3.2 (4.9%)	0.2 (0.3%)
SEP	W	2.6 (4.3%)	0 (0%)
	AN	2.5 (4.3%)	0 (0%)
	BN	3 (5.1%)	0 (0%)
	D	3.9 (6.6%)	0.1 (0.2%)
	C	2.3 (3.8%)	-0.7 (-1.1%)
	AVG	2.9 (4.9%)	-0.1 (-0.1%)
OCT	W	1.9 (3.6%)	-0.1 (-0.1%)
	AN	1.9 (3.5%)	0 (0%)
	BN	2 (3.8%)	0.1 (0.1%)
	D	1.9 (3.5%)	0.1 (0.1%)
	C	2.6 (4.8%)	0 (0%)
	AVG	2 (3.8%)	0 (0%)
NOV	W	1.6 (3.7%)	0 (0%)
	AN	1.6 (3.6%)	0.1 (0.1%)
	BN	1.8 (4.1%)	0 (0%)
	D	1.7 (3.9%)	0 (0%)
	C	1.7 (3.9%)	0.1 (0.1%)
	AVG	1.7 (3.8%)	0 (0%)
DEC	W	1 (2.3%)	0 (0.1%)
	AN	1.5 (3.7%)	-0.1 (-0.1%)
	BN	1.7 (4.2%)	0 (0%)
	D	1.5 (3.8%)	0.1 (0.2%)
	C	1.9 (5%)	0 (0%)
	AVG	1.4 (3.5%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.9.9 Feather River at Fish Barrier Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
3 **Feather River at Fish Barrier Dam, Year-Round**

Alternative 9: Feather River at Fish Barrier Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	48	51	51
	AN	47	50	50
	BN	48	51	51
	D	47	51	51
	C	48	51	51
	AVG	48	51	51
FEB	W	48	51	51
	AN	48	51	51
	BN	48	51	51
	D	49	52	52
	C	49	53	53
	AVG	48	51	51
MAR	W	49	51	51
	AN	49	51	51
	BN	50	53	53
	D	51	53	53
	C	51	54	54
	AVG	50	52	52
APR	W	51	52	52
	AN	51	53	53
	BN	52	54	54
	D	52	54	54
	C	52	54	54
	AVG	51	53	53
MAY	W	55	56	55
	AN	56	56	56
	BN	56	56	56
	D	56	56	56
	C	56	57	56
	AVG	55	56	56
JUN	W	57	58	58
	AN	58	58	58
	BN	58	58	58
	D	58	58	58
	C	58	59	59
	AVG	58	58	58
JUL	W	61	61	61
	AN	61	61	61
	BN	61	61	61
	D	61	61	61
	C	61	62	63
	AVG	61	61	62

Alternative 9: Feather River at Fish Barrier Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL
AUG	W	61	61	61
	AN	60	60	60
	BN	60	60	60
	D	60	62	62
	C	62	64	64
	AVG	61	61	61
SEP	W	56	55	55
	AN	56	55	56
	BN	56	57	57
	D	56	61	61
	C	58	63	64
	AVG	56	58	58
OCT	W	54	58	58
	AN	55	58	59
	BN	54	58	58
	D	54	59	59
	C	54	58	59
	AVG	54	58	59
NOV	W	52	58	58
	AN	53	58	59
	BN	53	58	58
	D	52	59	59
	C	53	58	58
	AVG	53	58	58
DEC	W	49	53	53
	AN	49	55	55
	BN	49	54	54
	D	49	54	54
	C	49	54	54
	AVG	49	54	54

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Fish Barrier Dam, Year-Round**

Alternative 9: Feather River at Fish Barrier Dam			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
JAN	W	2.8 (5.8%)	0 (0%)
	AN	3 (6.3%)	-0.1 (-0.1%)
	BN	3.1 (6.5%)	0.1 (0.2%)
	D	3.5 (7.3%)	0 (0.1%)
	C	3.7 (7.7%)	-0.2 (-0.3%)
	AVG	3.2 (6.6%)	0 (0%)
FEB	W	2.6 (5.4%)	0 (0%)
	AN	2.5 (5.3%)	0 (0%)
	BN	3.1 (6.3%)	0.1 (0.1%)
	D	3 (6.2%)	0.1 (0.2%)
	C	3.4 (6.9%)	-0.1 (-0.1%)
	AVG	2.9 (5.9%)	0 (0%)
MAR	W	2.5 (5.2%)	0 (0.1%)
	AN	2.2 (4.5%)	0 (-0.1%)
	BN	3.3 (6.7%)	0.1 (0.2%)
	D	2.5 (4.9%)	0.2 (0.3%)
	C	3.1 (6.1%)	0 (0%)
	AVG	2.7 (5.4%)	0.1 (0.1%)
APR	W	1.9 (3.7%)	0 (0.1%)
	AN	1.7 (3.2%)	0 (-0.1%)
	BN	1.7 (3.2%)	0 (0%)
	D	1.8 (3.5%)	-0.1 (-0.2%)
	C	2.5 (4.9%)	0 (0%)
	AVG	1.9 (3.7%)	0 (0%)
MAY	W	0.6 (1.1%)	-0.1 (-0.2%)
	AN	0.4 (0.7%)	-0.1 (-0.2%)
	BN	0 (0.1%)	-0.3 (-0.5%)
	D	0 (-0.1%)	-0.3 (-0.5%)
	C	0.5 (0.9%)	-0.3 (-0.5%)
	AVG	0.3 (0.6%)	-0.2 (-0.4%)
JUN	W	0.5 (0.9%)	0.1 (0.1%)
	AN	0.4 (0.6%)	0 (0%)
	BN	0.3 (0.4%)	0 (0%)
	D	0.5 (0.9%)	0 (0%)
	C	1.1 (2%)	-0.1 (-0.1%)
	AVG	0.5 (0.9%)	0 (0%)
JUL	W	0.2 (0.3%)	0.1 (0.1%)
	AN	0.3 (0.4%)	0 (0%)
	BN	0.4 (0.7%)	0 (0%)
	D	0.7 (1.2%)	0.2 (0.3%)
	C	1.8 (3%)	0.4 (0.6%)
	AVG	0.6 (1%)	0.1 (0.2%)

Alternative 9: Feather River at Fish Barrier Dam			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
AUG	W	-0.3 (-0.4%)	0 (0%)
	AN	0.2 (0.3%)	0 (0%)
	BN	0.5 (0.8%)	0 (-0.1%)
	D	1.8 (3%)	-0.1 (-0.1%)
	C	2.1 (3.3%)	-0.3 (-0.5%)
	AVG	0.7 (1.2%)	-0.1 (-0.1%)
SEP	W	-0.7 (-1.2%)	-0.1 (-0.2%)
	AN	-0.1 (-0.1%)	0.4 (0.7%)
	BN	1.4 (2.4%)	-0.2 (-0.3%)
	D	4.7 (8.5%)	-0.2 (-0.3%)
	C	5.8 (10%)	0.4 (0.6%)
	AVG	1.9 (3.4%)	0 (0%)
OCT	W	4.3 (8.1%)	-0.2 (-0.3%)
	AN	3.7 (6.7%)	0.3 (0.5%)
	BN	4 (7.4%)	-0.3 (-0.5%)
	D	5.7 (10.5%)	0 (-0.1%)
	C	4.6 (8.4%)	0.8 (1.4%)
	AVG	4.5 (8.4%)	0 (0.1%)
NOV	W	6 (11.5%)	0.2 (0.3%)
	AN	5.6 (10.5%)	0.7 (1.1%)
	BN	5.6 (10.5%)	0.1 (0.2%)
	D	6.4 (12.2%)	0.1 (0.1%)
	C	5.5 (10.5%)	0.3 (0.5%)
	AVG	5.9 (11.2%)	0.2 (0.4%)
DEC	W	4.5 (9.2%)	0 (0%)
	AN	5.7 (11.6%)	0.1 (0.1%)
	BN	5.8 (11.8%)	0.2 (0.4%)
	D	5.1 (10.5%)	0 (0.1%)
	C	4.8 (9.8%)	0.1 (0.1%)
	AVG	5.1 (10.3%)	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.

1 **11D.9.10 Feather River Low-Flow Channel (above Thermalito**
2 **Afterbay)**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
4 **Feather River Low-Flow Channel (above Thermalito Afterbay), Year-Round**

Alternative 9: Feather River Low-Flow Channel (above Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	47	50	50
	AN	47	50	50
	BN	47	50	50
	D	47	50	50
	C	47	51	51
	AVG	47	50	50
FEB	W	49	51	51
	AN	49	51	51
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	50	53	53
	AN	51	53	53
	BN	51	54	54
	D	52	55	55
	C	53	56	56
	AVG	51	54	54
APR	W	53	55	55
	AN	55	57	57
	BN	55	57	57
	D	55	57	57
	C	55	57	57
	AVG	55	57	57
MAY	W	59	61	61
	AN	60	62	62
	BN	60	61	61
	D	60	61	61
	C	60	62	61
	AVG	60	61	61
JUN	W	63	65	65
	AN	64	66	66
	BN	64	65	65
	D	64	66	66
	C	63	65	65
	AVG	64	65	65

Alternative 9: Feather River Low-Flow Channel (above Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JUL	W	68	69	69
	AN	67	69	69
	BN	67	69	69
	D	67	69	69
	C	67	70	70
	AVG	67	69	69
AUG	W	66	68	68
	AN	65	67	67
	BN	66	68	68
	D	65	68	68
	C	67	70	70
	AVG	66	68	68
SEP	W	60	61	61
	AN	60	61	61
	BN	60	62	62
	D	60	65	65
	C	61	66	67
	AVG	60	63	63
OCT	W	55	60	60
	AN	57	60	60
	BN	56	60	60
	D	56	61	61
	C	56	60	61
	AVG	56	60	60
NOV	W	52	58	58
	AN	53	58	58
	BN	53	58	58
	D	53	58	58
	C	53	58	58
	AVG	53	58	58
DEC	W	48	53	53
	AN	49	54	54
	BN	48	53	53
	D	48	53	53
	C	48	53	53
	AVG	48	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather Low-Flow Channel (above Thermalito Afterbay), Year-Round**

Alternative 9: Feather River Low-Flow Channel (above Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
JAN	W	2.8 (6%)	0 (0.1%)
	AN	3 (6.4%)	-0.1 (-0.1%)
	BN	3.1 (6.5%)	0.1 (0.2%)
	D	3.3 (7.1%)	0 (0.1%)
	C	3.5 (7.5%)	-0.1 (-0.2%)
	AVG	3.1 (6.6%)	0 (0%)
FEB	W	2.6 (5.4%)	0 (-0.1%)
	AN	2.6 (5.3%)	0 (0%)
	BN	3 (6.1%)	0.1 (0.1%)
	D	2.9 (5.9%)	0.1 (0.1%)
	C	3.3 (6.6%)	-0.1 (-0.1%)
	AVG	2.9 (5.8%)	0 (0%)
MAR	W	2.5 (5%)	0 (0%)
	AN	2.3 (4.5%)	0 (-0.1%)
	BN	3.1 (6%)	0.1 (0.1%)
	D	2.5 (4.8%)	0.1 (0.2%)
	C	3 (5.7%)	0 (0%)
	AVG	2.6 (5.1%)	0 (0.1%)
APR	W	1.9 (3.5%)	0 (0%)
	AN	1.9 (3.5%)	0 (0%)
	BN	1.9 (3.4%)	0 (0%)
	D	2.1 (3.7%)	-0.1 (-0.2%)
	C	2.5 (4.6%)	0 (0%)
	AVG	2 (3.7%)	0 (0%)
MAY	W	1.4 (2.3%)	-0.1 (-0.1%)
	AN	1.3 (2.1%)	-0.1 (-0.1%)
	BN	1 (1.7%)	-0.2 (-0.3%)
	D	1 (1.6%)	-0.2 (-0.3%)
	C	1.3 (2.2%)	-0.2 (-0.4%)
	AVG	1.2 (2%)	-0.1 (-0.2%)
JUN	W	1.6 (2.6%)	0 (0%)
	AN	1.7 (2.7%)	0 (0%)
	BN	1.6 (2.5%)	0 (0%)
	D	1.9 (2.9%)	0 (0%)
	C	2.1 (3.4%)	0 (0%)
	AVG	1.8 (2.8%)	0 (0%)
JUL	W	1.7 (2.4%)	0 (0.1%)
	AN	1.8 (2.6%)	0 (0%)
	BN	1.8 (2.7%)	0 (0%)
	D	2 (3%)	0.1 (0.1%)
	C	2.9 (4.3%)	0.2 (0.3%)
	AVG	2 (2.9%)	0.1 (0.1%)

Alternative 9: Feather River Low-Flow Channel (above Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
AUG	W	1.5 (2.2%)	0 (0%)
	AN	1.7 (2.6%)	0 (0%)
	BN	2 (3%)	0 (0%)
	D	2.8 (4.3%)	0 (-0.1%)
	C	3 (4.5%)	-0.2 (-0.3%)
	AVG	2.1 (3.2%)	-0.1 (-0.1%)
SEP	W	0.8 (1.3%)	0 (-0.1%)
	AN	1.1 (1.9%)	0.3 (0.5%)
	BN	2.2 (3.6%)	-0.1 (-0.2%)
	D	4.7 (7.8%)	-0.1 (-0.2%)
	C	5.3 (8.7%)	0.3 (0.4%)
	AVG	2.6 (4.3%)	0 (0%)
OCT	W	4.1 (7.5%)	-0.2 (-0.3%)
	AN	3.6 (6.4%)	0.3 (0.4%)
	BN	3.9 (7%)	-0.2 (-0.4%)
	D	5.2 (9.3%)	0 (0%)
	C	4.4 (7.8%)	0.6 (1.1%)
	AVG	4.3 (7.7%)	0 (0.1%)
NOV	W	5.5 (10.6%)	0.1 (0.3%)
	AN	5.2 (9.7%)	0.5 (0.9%)
	BN	5.1 (9.7%)	0.1 (0.2%)
	D	5.8 (11.1%)	0.1 (0.1%)
	C	5.1 (9.7%)	0.3 (0.5%)
	AVG	5.4 (10.3%)	0.2 (0.3%)
DEC	W	4.2 (8.8%)	0 (0%)
	AN	5.2 (10.7%)	0 (0.1%)
	BN	5.3 (11%)	0.2 (0.4%)
	D	4.8 (9.9%)	0 (0.1%)
	C	4.5 (9.3%)	0 (0.1%)
	AVG	4.7 (9.7%)	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.

1 **11D.9.11 Feather River High-Flow Channel (below Thermalito**
2 **Afterbay)**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
4 **Feather River High-Flow Channel (below Thermalito Afterbay), Year-Round**

Alternative 9: Feather River High-Flow Channel (below Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	47	50	50
	AN	47	50	49
	BN	46	49	49
	D	46	49	49
	C	46	50	50
	AVG	47	49	49
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	52	52
MAR	W	51	54	54
	AN	52	54	54
	BN	53	56	56
	D	54	57	57
	C	54	57	57
	AVG	53	55	55
APR	W	55	57	57
	AN	57	59	59
	BN	58	59	59
	D	57	60	60
	C	57	60	60
	AVG	57	59	59
MAY	W	61	63	63
	AN	63	64	64
	BN	63	65	65
	D	63	65	65
	C	63	66	65
	AVG	62	64	64
JUN	W	66	68	68
	AN	67	70	70
	BN	67	70	70
	D	68	71	71
	C	68	71	71
	AVG	67	70	70

Alternative 9: Feather River High-Flow Channel (below Thermalito Afterbay)				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LLТ
JUL	W	70	70	70
	AN	68	69	69
	BN	68	70	70
	D	68	70	71
	C	70	74	75
	AVG	69	71	71
AUG	W	70	70	70
	AN	67	69	69
	BN	68	70	70
	D	67	71	71
	C	70	74	74
	AVG	69	71	71
SEP	W	64	63	63
	AN	64	64	64
	BN	65	68	67
	D	64	67	67
	C	64	69	69
	AVG	64	66	66
OCT	W	58	62	62
	AN	60	63	63
	BN	59	63	63
	D	58	63	63
	C	59	63	63
	AVG	59	63	63
NOV	W	53	57	57
	AN	54	58	58
	BN	53	57	57
	D	53	57	57
	C	53	57	58
	AVG	53	57	57
DEC	W	48	51	51
	AN	48	52	52
	BN	47	51	51
	D	47	51	51
	C	47	50	50
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
 2 **Water Temperatures in the Feather High-Flow Channel (below Thermalito Afterbay), Year-Round**

Alternative 9: Feather River High-Flow Channel (below Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
JAN	W	2.7 (5.7%)	0 (0%)
	AN	2.8 (6%)	-0.1 (-0.2%)
	BN	2.8 (6%)	0.1 (0.1%)
	D	2.9 (6.4%)	0 (0.1%)
	C	3.2 (6.9%)	-0.1 (-0.2%)
	AVG	2.9 (6.1%)	0 (0%)
FEB	W	2.6 (5.3%)	-0.1 (-0.1%)
	AN	3 (6.1%)	-0.1 (-0.2%)
	BN	3 (6.1%)	0 (0.1%)
	D	2.8 (5.6%)	0 (0.1%)
	C	3.2 (6.2%)	0 (0.1%)
	AVG	2.9 (5.8%)	0 (0%)
MAR	W	2.4 (4.6%)	0.1 (0.1%)
	AN	1.7 (3.2%)	-0.1 (-0.1%)
	BN	3 (5.6%)	0 (0%)
	D	2.5 (4.7%)	0 (0.1%)
	C	2.9 (5.5%)	-0.1 (-0.1%)
	AVG	2.5 (4.7%)	0 (0%)
APR	W	2 (3.6%)	0 (0%)
	AN	2.2 (3.9%)	0 (-0.1%)
	BN	1.7 (2.9%)	-0.1 (-0.1%)
	D	2.6 (4.5%)	0.2 (0.3%)
	C	2.5 (4.5%)	0.1 (0.1%)
	AVG	2.2 (3.9%)	0 (0.1%)
MAY	W	2.9 (4.7%)	0.1 (0.2%)
	AN	1.5 (2.5%)	-0.1 (-0.1%)
	BN	2.1 (3.3%)	0 (0%)
	D	1.8 (2.9%)	-0.5 (-0.7%)
	C	2 (3.2%)	-0.3 (-0.4%)
	AVG	2.2 (3.5%)	-0.1 (-0.2%)
JUN	W	2.8 (4.3%)	0.2 (0.2%)
	AN	2.5 (3.7%)	0 (0%)
	BN	2.4 (3.6%)	0 (0.1%)
	D	2.7 (3.9%)	-0.2 (-0.3%)
	C	3.2 (4.7%)	0.2 (0.2%)
	AVG	2.7 (4.1%)	0 (0.1%)
JUL	W	0.7 (1.1%)	0.3 (0.4%)
	AN	1.4 (2%)	0 (0%)
	BN	2.2 (3.2%)	0.2 (0.3%)
	D	2.8 (4.2%)	0.6 (0.8%)
	C	5 (7.2%)	0.7 (1%)
	AVG	2.2 (3.2%)	0.4 (0.5%)

Alternative 9: Feather River High-Flow Channel (below Thermalito Afterbay)			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1T	NAA vs. A9_LL1T
AUG	W	0.7 (1%)	0 (0%)
	AN	1.7 (2.5%)	-0.1 (-0.2%)
	BN	2.2 (3.2%)	0 (0.1%)
	D	4.2 (6.3%)	0.3 (0.4%)
	C	4.2 (6%)	0.1 (0.1%)
	AVG	2.4 (3.5%)	0.1 (0.1%)
SEP	W	-1 (-1.5%)	-0.2 (-0.4%)
	AN	-0.2 (-0.2%)	0.3 (0.4%)
	BN	2.6 (4%)	-0.3 (-0.5%)
	D	2.6 (4.1%)	0.1 (0.2%)
	C	4.5 (7%)	-0.4 (-0.6%)
	AVG	1.4 (2.1%)	-0.1 (-0.2%)
OCT	W	3.9 (6.6%)	-0.1 (-0.1%)
	AN	3.5 (5.9%)	0.1 (0.2%)
	BN	3.6 (6.1%)	0 (-0.1%)
	D	4.4 (7.5%)	0.1 (0.1%)
	C	3.9 (6.6%)	0.1 (0.1%)
	AVG	3.9 (6.6%)	0 (0%)
NOV	W	4.4 (8.3%)	0.1 (0.2%)
	AN	4.3 (8%)	0.3 (0.5%)
	BN	4.2 (8%)	0.1 (0.2%)
	D	4.7 (8.9%)	0 (0.1%)
	C	4.1 (7.6%)	0 (0.1%)
	AVG	4.4 (8.2%)	0.1 (0.2%)
DEC	W	3.5 (7.3%)	0 (0%)
	AN	4.4 (9.2%)	-0.1 (-0.2%)
	BN	4.3 (9.1%)	0 (0.1%)
	D	3.9 (8.2%)	-0.2 (-0.4%)
	C	3.8 (8.2%)	0 (-0.1%)
	AVG	3.9 (8.2%)	-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.

1 **11D.9.12 Feather River at Gridley Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
3 **Feather River at Gridley Dam, Year-Round**

Alternative 9: Feather River at Gridley Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	46	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	49	52	52
	BN	50	53	53
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	51	54	54
	AN	53	54	54
	BN	54	57	57
	D	55	57	57
	C	54	57	57
	AVG	53	56	56
APR	W	56	58	58
	AN	58	60	60
	BN	59	61	60
	D	59	61	61
	C	58	61	61
	AVG	58	60	60
MAY	W	61	64	64
	AN	64	66	66
	BN	64	66	66
	D	64	66	66
	C	64	67	66
	AVG	63	66	65
JUN	W	67	69	69
	AN	69	71	71
	BN	69	71	71
	D	69	72	72
	C	69	72	72
	AVG	68	71	71
JUL	W	70	71	71
	AN	69	70	70
	BN	69	71	71
	D	69	71	72
	C	71	75	76
	AVG	70	72	72

Alternative 9: Feather River at Gridley Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL
AUG	W	71	71	71
	AN	68	70	70
	BN	69	71	71
	D	68	72	72
	C	71	75	75
	AVG	69	72	72
SEP	W	65	64	64
	AN	65	64	65
	BN	66	69	69
	D	65	68	68
	C	66	70	70
	AVG	65	67	67
OCT	W	59	63	63
	AN	60	63	63
	BN	60	63	63
	D	59	63	63
	C	59	63	63
	AVG	59	63	63
NOV	W	53	57	57
	AN	54	58	58
	BN	53	57	57
	D	53	57	57
	C	54	57	58
	AVG	53	57	57
DEC	W	48	51	51
	AN	47	52	52
	BN	47	51	51
	D	47	51	50
	C	46	50	50
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Gridley Dam, Year-Round**

Alternative 9: Feather River at Gridley Dam			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
JAN	W	2.7 (5.7%)	0 (0.1%)
	AN	2.8 (6.1%)	-0.1 (-0.2%)
	BN	2.8 (6%)	0.1 (0.1%)
	D	2.9 (6.3%)	0 (0.1%)
	C	3.2 (6.8%)	-0.1 (-0.2%)
	AVG	2.8 (6.1%)	0 (0%)
FEB	W	2.6 (5.3%)	-0.1 (-0.1%)
	AN	3 (6.1%)	-0.1 (-0.2%)
	BN	3 (6.1%)	0 (0.1%)
	D	2.8 (5.6%)	0 (0.1%)
	C	3.1 (6.1%)	0 (0%)
	AVG	2.8 (5.7%)	0 (0%)
MAR	W	2.3 (4.6%)	0.1 (0.1%)
	AN	1.7 (3.2%)	0 (-0.1%)
	BN	3 (5.7%)	0 (0.1%)
	D	2.5 (4.6%)	0 (0.1%)
	C	2.8 (5.2%)	0 (-0.1%)
	AVG	2.5 (4.7%)	0 (0%)
APR	W	2 (3.6%)	0 (0%)
	AN	2.3 (3.9%)	0 (0%)
	BN	1.8 (3%)	-0.1 (-0.2%)
	D	2.4 (4.1%)	0.1 (0.1%)
	C	2.5 (4.3%)	0 (0.1%)
	AVG	2.2 (3.8%)	0 (0%)
MAY	W	3 (4.9%)	0 (0%)
	AN	1.7 (2.7%)	-0.1 (-0.2%)
	BN	1.9 (2.9%)	-0.2 (-0.3%)
	D	1.6 (2.4%)	-0.6 (-0.9%)
	C	2 (3.1%)	-0.3 (-0.4%)
	AVG	2.2 (3.4%)	-0.2 (-0.3%)
JUN	W	2.9 (4.4%)	0.2 (0.2%)
	AN	2.5 (3.6%)	0 (0%)
	BN	2.3 (3.4%)	0 (0.1%)
	D	2.7 (3.9%)	-0.2 (-0.2%)
	C	3.2 (4.6%)	0.1 (0.1%)
	AVG	2.8 (4%)	0 (0%)
JUL	W	0.9 (1.3%)	0.3 (0.4%)
	AN	1.5 (2.2%)	0 (-0.1%)
	BN	2.3 (3.4%)	0.2 (0.3%)
	D	3 (4.4%)	0.6 (0.9%)
	C	5.1 (7.3%)	0.8 (1%)
	AVG	2.3 (3.4%)	0.4 (0.5%)

Alternative 9: Feather River at Gridley Dam			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
AUG	W	0.6 (0.9%)	0 (0%)
	AN	1.7 (2.5%)	-0.1 (-0.2%)
	BN	2.4 (3.4%)	0 (0.1%)
	D	4.5 (6.7%)	0.3 (0.3%)
	C	4.1 (5.8%)	-0.1 (-0.1%)
	AVG	2.5 (3.5%)	0 (0%)
SEP	W	-1.5 (-2.3%)	-0.2 (-0.3%)
	AN	-0.5 (-0.8%)	0.3 (0.4%)
	BN	2.6 (3.9%)	-0.3 (-0.4%)
	D	3.4 (5.2%)	0.1 (0.1%)
	C	4.4 (6.8%)	-0.3 (-0.4%)
	AVG	1.3 (2%)	-0.1 (-0.2%)
OCT	W	3.9 (6.5%)	-0.1 (-0.1%)
	AN	3.4 (5.7%)	0.1 (0.1%)
	BN	3.6 (6.1%)	0 (0%)
	D	4.2 (7.1%)	0.1 (0.1%)
	C	3.9 (6.5%)	0.1 (0.2%)
	AVG	3.8 (6.5%)	0 (0%)
NOV	W	4.2 (8%)	0.1 (0.1%)
	AN	4.2 (7.7%)	0.3 (0.5%)
	BN	4.1 (7.8%)	0.1 (0.2%)
	D	4.5 (8.6%)	0 (0%)
	C	4 (7.5%)	0.1 (0.1%)
	AVG	4.2 (8%)	0.1 (0.2%)
DEC	W	3.4 (7.2%)	0 (0.1%)
	AN	4.3 (9.1%)	-0.1 (-0.1%)
	BN	4.1 (8.9%)	0 (0.1%)
	D	3.8 (8.1%)	-0.2 (-0.4%)
	C	3.7 (8%)	0 (0%)
	AVG	3.8 (8.1%)	0 (-0.1%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.9.13 Feather River at Honcut Creek**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
3 **Feather River at Honcut Creek, Year-Round**

Alternative 9: Feather River at Honcut Creek				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	47	50	50
	AN	46	49	49
	BN	46	49	49
	D	45	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	49	53	52
	BN	50	53	53
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	52	54	54
	AN	53	55	55
	BN	54	57	57
	D	55	58	58
	C	55	58	58
	AVG	53	56	56
APR	W	56	58	58
	AN	59	61	61
	BN	60	62	61
	D	60	62	62
	C	59	62	62
	AVG	58	61	61
MAY	W	62	65	65
	AN	65	67	67
	BN	65	67	67
	D	65	67	66
	C	65	68	67
	AVG	64	67	66
JUN	W	67	70	70
	AN	69	72	72
	BN	69	72	72
	D	70	73	73
	C	69	73	73
	AVG	69	72	72
JUL	W	71	72	72
	AN	69	71	71
	BN	69	72	72
	D	69	72	72
	C	71	76	76
	AVG	70	72	73

Alternative 9: Feather River at Honcut Creek				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL
AUG	W	72	72	72
	AN	69	71	70
	BN	69	72	72
	D	68	73	73
	C	72	76	76
	AVG	70	73	73
SEP	W	66	64	64
	AN	66	65	65
	BN	67	69	69
	D	66	70	70
	C	66	71	71
	AVG	66	68	67
OCT	W	59	63	63
	AN	60	64	64
	BN	60	64	64
	D	59	63	63
	C	60	64	64
	AVG	60	63	63
NOV	W	53	57	57
	AN	54	58	58
	BN	53	57	57
	D	53	57	57
	C	54	57	58
	AVG	53	57	57
DEC	W	47	51	51
	AN	47	52	52
	BN	46	51	51
	D	46	50	50
	C	46	50	50
	AVG	47	51	51

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Feather River at Honcut Creek, Year-Round**

Alternative 9: Feather River at Honcut Creek			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
JAN	W	2.7 (5.7%)	0 (0%)
	AN	2.8 (6.1%)	-0.1 (-0.2%)
	BN	2.8 (6%)	0 (0.1%)
	D	2.8 (6.3%)	0 (0.1%)
	C	3.1 (6.8%)	-0.1 (-0.2%)
	AVG	2.8 (6.1%)	0 (0%)
FEB	W	2.6 (5.3%)	-0.1 (-0.1%)
	AN	3 (6%)	-0.1 (-0.2%)
	BN	3 (6%)	0 (0%)
	D	2.8 (5.6%)	0 (0%)
	C	3.1 (6%)	0 (0%)
	AVG	2.8 (5.7%)	0 (0%)
MAR	W	2.3 (4.5%)	0.1 (0.1%)
	AN	1.7 (3.2%)	0 (-0.1%)
	BN	3 (5.6%)	0 (0%)
	D	2.5 (4.6%)	0.1 (0.1%)
	C	2.8 (5.1%)	0 (0%)
	AVG	2.5 (4.6%)	0 (0%)
APR	W	2 (3.6%)	0 (0%)
	AN	2.3 (3.9%)	0 (0%)
	BN	1.9 (3.1%)	-0.1 (-0.2%)
	D	2.3 (3.8%)	0 (-0.1%)
	C	2.5 (4.2%)	0 (0%)
	AVG	2.2 (3.7%)	0 (0%)
MAY	W	3.1 (5%)	-0.1 (-0.1%)
	AN	1.9 (2.9%)	-0.2 (-0.3%)
	BN	1.7 (2.6%)	-0.3 (-0.5%)
	D	1.4 (2.1%)	-0.7 (-1%)
	C	2 (3.1%)	-0.3 (-0.5%)
	AVG	2.1 (3.3%)	-0.3 (-0.5%)
JUN	W	3 (4.5%)	0.2 (0.3%)
	AN	2.5 (3.6%)	0 (0.1%)
	BN	2.3 (3.4%)	0 (0.1%)
	D	2.8 (4%)	-0.2 (-0.2%)
	C	3.2 (4.6%)	0 (0%)
	AVG	2.8 (4.1%)	0 (0%)
JUL	W	1 (1.5%)	0.3 (0.4%)
	AN	1.6 (2.4%)	0 (0%)
	BN	2.5 (3.6%)	0.2 (0.3%)
	D	3.2 (4.7%)	0.6 (0.9%)
	C	5.3 (7.4%)	0.8 (1%)
	AVG	2.5 (3.6%)	0.4 (0.5%)

Alternative 9: Feather River at Honcut Creek			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
AUG	W	0.7 (1%)	0 (0%)
	AN	1.8 (2.6%)	-0.1 (-0.2%)
	BN	2.5 (3.6%)	0.1 (0.1%)
	D	4.7 (6.9%)	0.2 (0.3%)
	C	4 (5.6%)	-0.2 (-0.3%)
	AVG	2.5 (3.6%)	0 (0%)
SEP	W	-1.8 (-2.7%)	-0.2 (-0.3%)
	AN	-0.7 (-1.1%)	0.3 (0.4%)
	BN	2.7 (4%)	-0.2 (-0.3%)
	D	3.9 (5.9%)	0.1 (0.1%)
	C	4.4 (6.6%)	-0.2 (-0.2%)
	AVG	1.3 (2%)	-0.1 (-0.1%)
OCT	W	3.8 (6.5%)	0 (-0.1%)
	AN	3.3 (5.5%)	0.1 (0.1%)
	BN	3.6 (6%)	0 (0%)
	D	4.1 (6.9%)	0 (0.1%)
	C	3.9 (6.6%)	0.2 (0.2%)
	AVG	3.8 (6.4%)	0 (0%)
NOV	W	4.2 (7.9%)	0.1 (0.1%)
	AN	4.1 (7.6%)	0.2 (0.4%)
	BN	4.1 (7.6%)	0.1 (0.2%)
	D	4.4 (8.3%)	0 (0.1%)
	C	3.9 (7.3%)	0.1 (0.1%)
	AVG	4.1 (7.8%)	0.1 (0.2%)
DEC	W	3.4 (7.1%)	0 (0.1%)
	AN	4.2 (9%)	-0.1 (-0.1%)
	BN	4.1 (8.8%)	0 (0.1%)
	D	3.7 (8%)	-0.2 (-0.4%)
	C	3.6 (7.8%)	0.1 (0.1%)
	AVG	3.7 (7.9%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.9.14 Feather River at the Confluence with the Sacramento**
2 **River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
4 **Feather River at Confluence with the Sacramento River, Year-Round**

Alternative 9: Feather River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	47	48	48
	AN	46	48	48
	BN	46	47	47
	D	45	47	47
	C	45	48	48
	AVG	46	48	48
FEB	W	50	52	52
	AN	50	52	52
	BN	50	51	51
	D	50	52	52
	C	51	53	53
	AVG	50	52	52
MAR	W	53	55	55
	AN	54	56	56
	BN	55	57	57
	D	55	57	57
	C	56	58	58
	AVG	55	56	56
APR	W	59	60	60
	AN	60	62	62
	BN	61	62	62
	D	62	64	64
	C	63	65	65
	AVG	61	63	62
MAY	W	65	68	67
	AN	66	69	69
	BN	67	69	69
	D	68	70	70
	C	68	71	71
	AVG	66	69	69
JUN	W	70	73	73
	AN	71	75	75
	BN	72	75	75
	D	73	77	77
	C	72	76	76
	AVG	71	75	75

Alternative 9: Feather River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JUL	W	74	76	76
	AN	72	75	75
	BN	73	76	76
	D	73	76	77
	C	75	79	80
	AVG	73	76	77
AUG	W	73	76	76
	AN	71	74	74
	BN	72	75	75
	D	72	76	76
	C	75	79	79
	AVG	73	76	76
SEP	W	71	70	70
	AN	70	70	70
	BN	70	73	73
	D	70	74	74
	C	70	74	74
	AVG	70	72	72
OCT	W	61	64	64
	AN	62	64	64
	BN	61	64	64
	D	61	64	64
	C	62	65	65
	AVG	61	64	64
NOV	W	52	55	55
	AN	53	56	56
	BN	53	55	55
	D	52	55	55
	C	53	56	56
	AVG	53	55	55
DEC	W	47	49	49
	AN	47	50	50
	BN	46	49	49
	D	46	49	48
	C	45	47	48
	AVG	46	49	49

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

Alternative 9: Feather River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS	
		vs. A9_LL1	NAA vs. A9_LL1
JAN	W	1.9 (4%)	0 (0%)
	AN	1.8 (3.9%)	0 (0%)
	BN	1.9 (4.1%)	0 (0.1%)
	D	2.1 (4.7%)	0 (0%)
	C	2.1 (4.7%)	-0.1 (-0.3%)
	AVG	1.9 (4.3%)	0 (0%)
FEB	W	1.9 (3.8%)	0 (0%)
	AN	1.9 (3.8%)	-0.1 (-0.1%)
	BN	1.7 (3.4%)	0 (0%)
	D	1.9 (3.8%)	0 (0%)
	C	2.2 (4.3%)	0 (0%)
	AVG	1.9 (3.8%)	0 (0%)
MAR	W	1.7 (3.3%)	0 (0%)
	AN	1.3 (2.4%)	0 (-0.1%)
	BN	1.9 (3.4%)	0 (0%)
	D	1.8 (3.2%)	0 (0%)
	C	2 (3.6%)	0 (0%)
	AVG	1.7 (3.2%)	0 (0%)
APR	W	1.6 (2.7%)	0 (0%)
	AN	1.9 (3.2%)	0 (0%)
	BN	1.6 (2.6%)	-0.1 (-0.1%)
	D	1.9 (3.1%)	-0.1 (-0.2%)
	C	2.2 (3.5%)	0 (0%)
	AVG	1.8 (3%)	0 (-0.1%)
MAY	W	2.9 (4.5%)	-0.1 (-0.1%)
	AN	2.8 (4.2%)	-0.1 (-0.2%)
	BN	2.3 (3.4%)	-0.3 (-0.4%)
	D	2.1 (3.1%)	-0.5 (-0.8%)
	C	2.5 (3.7%)	-0.2 (-0.3%)
	AVG	2.6 (3.8%)	-0.2 (-0.3%)
JUN	W	3.6 (5.1%)	0.1 (0.1%)
	AN	3.4 (4.8%)	0.1 (0.1%)
	BN	3.4 (4.8%)	0.1 (0.1%)
	D	3.6 (5%)	-0.1 (-0.2%)
	C	3.5 (4.8%)	0 (0%)
	AVG	3.5 (4.9%)	0 (0%)
JUL	W	2.9 (3.9%)	0.2 (0.3%)
	AN	2.6 (3.6%)	0 (0%)
	BN	3.3 (4.5%)	0.2 (0.2%)
	D	3.8 (5.2%)	0.5 (0.6%)
	C	5.1 (6.9%)	0.6 (0.8%)
	AVG	3.4 (4.7%)	0.3 (0.4%)

Alternative 9: Feather River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
AUG	W	2.5 (3.5%)	0 (0%)
	AN	2.6 (3.7%)	-0.1 (-0.1%)
	BN	3.1 (4.3%)	0 (0.1%)
	D	4.9 (6.9%)	0.2 (0.3%)
	C	4.1 (5.5%)	-0.2 (-0.3%)
	AVG	3.4 (4.7%)	0 (0%)
SEP	W	-0.9 (-1.3%)	-0.2 (-0.3%)
	AN	0.1 (0.1%)	0.2 (0.2%)
	BN	2.9 (4.1%)	-0.1 (-0.1%)
	D	4.5 (6.4%)	0.1 (0.1%)
	C	3.7 (5.3%)	0 (0.1%)
	AVG	1.8 (2.5%)	0 (-0.1%)
OCT	W	3.2 (5.2%)	0 (0%)
	AN	2.6 (4.3%)	0.1 (0.1%)
	BN	3 (4.8%)	0 (0%)
	D	3 (5%)	-0.1 (-0.1%)
	C	3.4 (5.5%)	0.1 (0.2%)
	AVG	3.1 (5%)	0 (0%)
NOV	W	2.8 (5.4%)	0 (0.1%)
	AN	2.9 (5.5%)	0.1 (0.1%)
	BN	2.9 (5.5%)	0.1 (0.1%)
	D	2.9 (5.5%)	0.1 (0.2%)
	C	2.8 (5.2%)	0 (0%)
	AVG	2.9 (5.4%)	0.1 (0.1%)
DEC	W	1.9 (4.1%)	0 (0.1%)
	AN	2.8 (6%)	-0.1 (-0.2%)
	BN	2.8 (6%)	0 (0%)
	D	2.2 (4.8%)	-0.4 (-0.8%)
	C	2.5 (5.6%)	0.2 (0.4%)
	AVG	2.3 (5.1%)	-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.

1 **11D.9.15 American River below Nimbus Dam**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
3 **American River below Nimbus Dam, Year-Round**

Alternative 9: American River below Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	47	49	49
	C	47	50	50
	AVG	47	50	50
FEB	W	48	51	51
	AN	48	52	52
	BN	47	51	51
	D	49	52	52
	C	51	54	54
	AVG	48	52	52
MAR	W	52	55	55
	AN	53	56	56
	BN	53	56	56
	D	53	57	57
	C	55	58	58
	AVG	53	56	56
APR	W	56	59	59
	AN	57	60	60
	BN	57	61	61
	D	59	62	62
	C	59	63	63
	AVG	58	60	60
MAY	W	60	64	64
	AN	61	66	66
	BN	61	65	65
	D	64	67	66
	C	64	68	68
	AVG	62	66	65
JUN	W	64	67	66
	AN	65	68	68
	BN	65	68	68
	D	67	69	69
	C	68	72	72
	AVG	66	68	68
JUL	W	66	68	68
	AN	66	66	67
	BN	66	67	68
	D	67	69	70
	C	70	74	74
	AVG	67	69	69

Alternative 9: American River below Nimbus Dam				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL
AUG	W	67	70	70
	AN	67	69	69
	BN	67	69	69
	D	67	71	71
	C	70	76	77
	AVG	67	71	71
SEP	W	65	68	67
	AN	66	69	68
	BN	66	69	68
	D	66	71	71
	C	68	73	73
	AVG	66	70	69
OCT	W	58	68	68
	AN	59	68	68
	BN	58	68	68
	D	59	67	67
	C	61	68	68
	AVG	59	68	68
NOV	W	57	61	61
	AN	57	61	61
	BN	56	61	61
	D	57	61	61
	C	58	61	61
	AVG	57	61	61
DEC	W	50	53	53
	AN	51	53	53
	BN	50	52	53
	D	50	53	53
	C	50	52	52
	AVG	50	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the American River below Nimbus Dam, Year-Round**

Alternative 9: American River below Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
JAN	W	3.1 (6.7%)	0 (0%)
	AN	2.7 (5.7%)	0 (0.1%)
	BN	3 (6.6%)	0.1 (0.1%)
	D	2.9 (6.2%)	0 (0%)
	C	3 (6.4%)	0 (0%)
	AVG	3 (6.4%)	0 (0%)
FEB	W	3.4 (7.2%)	0 (0%)
	AN	3.8 (8%)	0 (0.1%)
	BN	3.3 (6.9%)	0 (0%)
	D	3.3 (6.8%)	-0.1 (-0.1%)
	C	3.2 (6.4%)	0 (-0.1%)
	AVG	3.4 (7.1%)	0 (0%)
MAR	W	3.1 (6%)	0 (0%)
	AN	2.9 (5.5%)	0 (0%)
	BN	2.7 (5.1%)	0.1 (0.2%)
	D	3.4 (6.3%)	-0.1 (-0.1%)
	C	2.9 (5.3%)	-0.1 (-0.1%)
	AVG	3 (5.8%)	0 (0%)
APR	W	3 (5.3%)	0 (0%)
	AN	3.2 (5.5%)	0 (0%)
	BN	3.1 (5.3%)	-0.1 (-0.1%)
	D	2.6 (4.4%)	0 (0.1%)
	C	3.3 (5.6%)	0.1 (0.2%)
	AVG	3 (5.2%)	0 (0%)
MAY	W	4.1 (6.8%)	-0.1 (-0.2%)
	AN	4.7 (7.6%)	-0.1 (-0.2%)
	BN	3.7 (6.1%)	-0.4 (-0.7%)
	D	2.2 (3.5%)	-0.8 (-1.2%)
	C	3.6 (5.6%)	-0.1 (-0.1%)
	AVG	3.6 (5.9%)	-0.3 (-0.5%)
JUN	W	2.7 (4.3%)	-0.2 (-0.4%)
	AN	2.6 (4%)	-0.2 (-0.3%)
	BN	3.1 (4.7%)	0.1 (0.1%)
	D	1.9 (2.8%)	0 (0.1%)
	C	4 (5.9%)	-0.2 (-0.3%)
	AVG	2.8 (4.2%)	-0.1 (-0.2%)
JUL	W	1.7 (2.6%)	0.2 (0.3%)
	AN	0.8 (1.2%)	0.4 (0.5%)
	BN	1.8 (2.8%)	0.7 (1.1%)
	D	2.9 (4.3%)	0.6 (0.9%)
	C	4.4 (6.3%)	0 (0%)
	AVG	2.3 (3.4%)	0.4 (0.5%)

Alternative 9: American River below Nimbus Dam			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
AUG	W	3.3 (4.9%)	0.1 (0.1%)
	AN	1.9 (2.8%)	-0.2 (-0.3%)
	BN	1.6 (2.4%)	-0.2 (-0.3%)
	D	4.1 (6.1%)	-0.1 (-0.1%)
	C	6.7 (9.5%)	0.4 (0.5%)
	AVG	3.5 (5.2%)	0 (0%)
SEP	W	2.4 (3.8%)	-0.2 (-0.3%)
	AN	2.7 (4.2%)	-0.3 (-0.5%)
	BN	2.2 (3.3%)	-0.6 (-0.8%)
	D	4.7 (7.1%)	-0.3 (-0.4%)
	C	4.8 (7%)	0 (0%)
	AVG	3.3 (5%)	-0.3 (-0.4%)
OCT	W	9.4 (16%)	0.1 (0.1%)
	AN	8.9 (15%)	0.2 (0.3%)
	BN	9.6 (16.5%)	-0.1 (-0.2%)
	D	8.1 (13.8%)	-0.2 (-0.3%)
	C	7 (11.6%)	-0.4 (-0.5%)
	AVG	8.7 (14.8%)	-0.1 (-0.1%)
NOV	W	4 (7%)	0.2 (0.3%)
	AN	3.7 (6.6%)	-0.1 (-0.2%)
	BN	4.5 (8%)	0.1 (0.2%)
	D	4 (7.1%)	0.2 (0.3%)
	C	3.7 (6.4%)	0.1 (0.2%)
	AVG	4 (7.1%)	0.1 (0.2%)
DEC	W	2.7 (5.3%)	0.1 (0.1%)
	AN	2.7 (5.2%)	0 (-0.1%)
	BN	2.8 (5.6%)	0.1 (0.2%)
	D	2.8 (5.6%)	0.1 (0.2%)
	C	2.6 (5.1%)	0 (0%)
	AVG	2.7 (5.4%)	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.

1 **11D.9.16 American River at Watt Avenue**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
3 **American River at Watt Avenue, Year-Round**

Alternative 9: American River at Watt Avenue				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	46	49	49
	C	46	49	49
	AVG	46	49	49
FEB	W	48	52	52
	AN	48	52	52
	BN	48	51	51
	D	49	52	52
	C	51	54	54
	AVG	49	52	52
MAR	W	53	56	56
	AN	53	56	56
	BN	54	56	56
	D	54	57	57
	C	56	58	58
	AVG	54	56	56
APR	W	56	59	59
	AN	58	61	61
	BN	58	61	61
	D	60	63	63
	C	61	64	64
	AVG	58	61	61
MAY	W	61	65	65
	AN	62	67	67
	BN	62	67	66
	D	65	68	67
	C	66	69	69
	AVG	63	67	67
JUN	W	65	68	68
	AN	67	70	70
	BN	67	70	70
	D	69	71	71
	C	69	73	73
	AVG	67	70	70
JUL	W	68	70	70
	AN	67	68	69
	BN	67	69	70
	D	68	71	72
	C	72	76	76
	AVG	68	71	71

Alternative 9: American River at Watt Avenue				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL
AUG	W	68	72	72
	AN	69	72	71
	BN	69	72	71
	D	69	73	73
	C	71	77	77
	AVG	69	73	73
SEP	W	66	69	68
	AN	66	70	70
	BN	67	70	70
	D	67	72	72
	C	69	73	73
	AVG	67	71	70
OCT	W	59	67	67
	AN	60	67	67
	BN	59	68	67
	D	60	67	67
	C	61	68	67
	AVG	60	67	67
NOV	W	56	60	60
	AN	56	60	60
	BN	56	60	60
	D	56	59	60
	C	57	60	61
	AVG	56	60	60
DEC	W	50	52	52
	AN	50	52	52
	BN	49	51	52
	D	49	52	52
	C	49	51	51
	AVG	49	52	52

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the American River at Watt Avenue, Year-Round**

Alternative 9: American River at Watt Avenue			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
JAN	W	3.1 (6.6%)	0 (0%)
	AN	2.7 (5.8%)	0 (0%)
	BN	2.9 (6.4%)	0 (0.1%)
	D	2.8 (6%)	0 (0.1%)
	C	2.9 (6.3%)	0 (0.1%)
	AVG	2.9 (6.3%)	0 (0%)
FEB	W	3.4 (7.1%)	0 (0%)
	AN	3.7 (7.8%)	0 (0.1%)
	BN	3.1 (6.6%)	0 (0%)
	D	3.1 (6.4%)	-0.1 (-0.1%)
	C	3.2 (6.3%)	0 (-0.1%)
	AVG	3.3 (6.8%)	0 (0%)
MAR	W	3 (5.7%)	0 (0%)
	AN	2.8 (5.3%)	0 (0%)
	BN	2.6 (4.9%)	0 (0.1%)
	D	3.2 (5.9%)	0 (0%)
	C	2.7 (4.8%)	0 (-0.1%)
	AVG	2.9 (5.4%)	0 (0%)
APR	W	2.8 (5%)	0 (0%)
	AN	3.1 (5.3%)	0 (0%)
	BN	2.9 (5%)	-0.1 (-0.1%)
	D	2.5 (4.2%)	-0.1 (-0.1%)
	C	3 (4.9%)	0.2 (0.3%)
	AVG	2.8 (4.9%)	0 (0%)
MAY	W	4.2 (6.9%)	-0.1 (-0.2%)
	AN	4.7 (7.6%)	-0.1 (-0.2%)
	BN	3.6 (5.8%)	-0.5 (-0.8%)
	D	2.2 (3.4%)	-0.8 (-1.1%)
	C	3.1 (4.8%)	-0.2 (-0.3%)
	AVG	3.6 (5.6%)	-0.3 (-0.5%)
JUN	W	3.2 (4.9%)	-0.3 (-0.4%)
	AN	2.7 (4%)	-0.2 (-0.3%)
	BN	3.1 (4.7%)	0 (0.1%)
	D	2.4 (3.5%)	0.1 (0.1%)
	C	3.9 (5.6%)	-0.1 (-0.1%)
	AVG	3 (4.5%)	-0.1 (-0.1%)
JUL	W	2.3 (3.4%)	0.2 (0.3%)
	AN	1.3 (1.9%)	0.5 (0.7%)
	BN	2.6 (3.9%)	0.9 (1.3%)
	D	3.7 (5.4%)	0.8 (1.2%)
	C	3.9 (5.4%)	0 (0%)
	AVG	2.8 (4%)	0.5 (0.7%)

Alternative 9: American River at Watt Avenue			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
AUG	W	4.2 (6.2%)	0.1 (0.1%)
	AN	2.7 (3.9%)	-0.2 (-0.3%)
	BN	2.4 (3.5%)	-0.2 (-0.2%)
	D	4.7 (6.9%)	0.2 (0.2%)
	C	5.7 (8%)	0.2 (0.3%)
	AVG	4 (5.8%)	0 (0%)
SEP	W	2.7 (4.1%)	-0.2 (-0.4%)
	AN	3.1 (4.7%)	-0.3 (-0.4%)
	BN	2.9 (4.4%)	-0.4 (-0.5%)
	D	4.6 (6.9%)	-0.2 (-0.3%)
	C	4.4 (6.3%)	0 (0%)
	AVG	3.5 (5.2%)	-0.2 (-0.3%)
OCT	W	7.8 (13.2%)	0 (0.1%)
	AN	7.5 (12.6%)	0.1 (0.1%)
	BN	8.1 (13.6%)	-0.2 (-0.2%)
	D	6.7 (11.3%)	-0.1 (-0.1%)
	C	5.9 (9.6%)	-0.3 (-0.5%)
	AVG	7.3 (12.2%)	-0.1 (-0.1%)
NOV	W	3.7 (6.6%)	0.1 (0.2%)
	AN	3.5 (6.2%)	-0.1 (-0.2%)
	BN	4.1 (7.4%)	0.1 (0.2%)
	D	3.7 (6.6%)	0.3 (0.4%)
	C	3.5 (6.2%)	0.1 (0.2%)
	AVG	3.7 (6.6%)	0.1 (0.2%)
DEC	W	2.6 (5.2%)	0.1 (0.1%)
	AN	2.5 (5.1%)	0 (-0.1%)
	BN	2.7 (5.5%)	0.1 (0.2%)
	D	2.6 (5.4%)	0.2 (0.4%)
	C	2.3 (4.8%)	0.1 (0.1%)
	AVG	2.6 (5.2%)	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.

1 **11D.9.17 American River at the Confluence with the**
2 **Sacramento River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
4 **American River at the Confluence with the Sacramento River, Year-Round**

Alternative 9: American River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	47	50	50
	AN	46	49	49
	BN	46	48	48
	D	46	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	48	52	52
	AN	48	52	52
	BN	48	51	51
	D	49	52	52
	C	51	55	55
	AVG	49	52	52
MAR	W	53	56	56
	AN	53	56	56
	BN	54	56	56
	D	55	58	58
	C	56	59	59
	AVG	54	57	57
APR	W	57	60	60
	AN	58	61	61
	BN	59	62	62
	D	61	63	63
	C	62	64	64
	AVG	59	62	62
MAY	W	61	66	65
	AN	63	68	68
	BN	63	67	67
	D	66	69	68
	C	67	70	69
	AVG	64	67	67
JUN	W	65	69	69
	AN	68	71	71
	BN	68	71	71
	D	70	72	72
	C	70	74	74
	AVG	68	71	71

Alternative 9: American River at the Confluence with the Sacramento River				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JUL	W	69	71	71
	AN	68	69	70
	BN	68	70	71
	D	69	72	73
	C	73	76	76
	AVG	69	72	72
AUG	W	69	73	73
	AN	69	73	72
	BN	70	73	73
	D	69	74	74
	C	72	77	77
	AVG	70	74	74
SEP	W	66	69	69
	AN	67	70	70
	BN	67	71	71
	D	68	72	72
	C	69	74	74
	AVG	67	71	71
OCT	W	60	67	67
	AN	60	67	67
	BN	60	67	67
	D	60	66	66
	C	62	67	67
	AVG	60	67	67
NOV	W	56	60	60
	AN	56	60	59
	BN	55	59	59
	D	56	59	59
	C	57	60	60
	AVG	56	59	59
DEC	W	49	52	52
	AN	49	52	52
	BN	48	51	51
	D	49	51	51
	C	48	50	50
	AVG	49	51	51

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

Alternative 9: American River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
JAN	W	3.1 (6.6%)	0 (0%)
	AN	2.7 (5.9%)	0 (0%)
	BN	2.9 (6.3%)	0 (0.1%)
	D	2.7 (5.9%)	0 (0.1%)
	C	2.9 (6.4%)	0 (0.1%)
	AVG	2.9 (6.3%)	0 (0%)
FEB	W	3.4 (7%)	0 (0%)
	AN	3.7 (7.7%)	0 (0.1%)
	BN	3.1 (6.4%)	0 (0%)
	D	3 (6.2%)	-0.1 (-0.2%)
	C	3.2 (6.2%)	0 (0%)
	AVG	3.3 (6.7%)	0 (0%)
MAR	W	2.9 (5.6%)	0 (0%)
	AN	2.8 (5.2%)	0 (0%)
	BN	2.5 (4.7%)	0 (0.1%)
	D	3.1 (5.7%)	0 (0%)
	C	2.6 (4.6%)	0 (0%)
	AVG	2.8 (5.2%)	0 (0%)
APR	W	2.8 (4.9%)	0 (0%)
	AN	3 (5.2%)	0 (0%)
	BN	2.9 (4.9%)	-0.1 (-0.2%)
	D	2.5 (4.1%)	-0.1 (-0.1%)
	C	2.8 (4.6%)	0.2 (0.3%)
	AVG	2.8 (4.7%)	0 (0%)
MAY	W	4.2 (6.9%)	-0.1 (-0.2%)
	AN	4.7 (7.5%)	-0.1 (-0.2%)
	BN	3.6 (5.7%)	-0.5 (-0.8%)
	D	2.3 (3.4%)	-0.7 (-1%)
	C	2.9 (4.4%)	-0.2 (-0.3%)
	AVG	3.6 (5.6%)	-0.3 (-0.5%)
JUN	W	3.4 (5.2%)	-0.3 (-0.4%)
	AN	2.8 (4.1%)	-0.2 (-0.3%)
	BN	3.1 (4.6%)	0 (0%)
	D	2.6 (3.7%)	0.1 (0.1%)
	C	3.8 (5.4%)	-0.1 (-0.1%)
	AVG	3.1 (4.6%)	-0.1 (-0.1%)
JUL	W	2.6 (3.8%)	0.3 (0.4%)
	AN	1.6 (2.3%)	0.5 (0.8%)
	BN	3 (4.5%)	1 (1.4%)
	D	4.1 (5.9%)	0.9 (1.3%)
	C	3.7 (5.1%)	0 (0%)
	AVG	3 (4.4%)	0.5 (0.7%)

Alternative 9: American River at the Confluence with the Sacramento River			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
AUG	W	4.6 (6.8%)	0.1 (0.1%)
	AN	3.1 (4.5%)	-0.2 (-0.3%)
	BN	2.7 (3.9%)	-0.1 (-0.2%)
	D	5 (7.2%)	0.3 (0.4%)
	C	5.3 (7.4%)	0.2 (0.3%)
	AVG	4.3 (6.1%)	0 (0.1%)
SEP	W	2.9 (4.3%)	-0.3 (-0.4%)
	AN	3.3 (5%)	-0.3 (-0.4%)
	BN	3.3 (4.9%)	-0.3 (-0.5%)
	D	4.5 (6.7%)	-0.1 (-0.2%)
	C	4.2 (6%)	0 (0%)
	AVG	3.6 (5.3%)	-0.2 (-0.3%)
OCT	W	7 (11.7%)	0 (0%)
	AN	6.8 (11.3%)	0 (0%)
	BN	7.2 (12.1%)	-0.2 (-0.3%)
	D	6.1 (10.1%)	0 (0%)
	C	5.3 (8.6%)	-0.3 (-0.4%)
	AVG	6.6 (10.9%)	-0.1 (-0.1%)
NOV	W	3.6 (6.4%)	0.1 (0.2%)
	AN	3.3 (6%)	-0.1 (-0.2%)
	BN	3.9 (7.1%)	0.1 (0.2%)
	D	3.5 (6.3%)	0.3 (0.5%)
	C	3.4 (6%)	0.2 (0.3%)
	AVG	3.6 (6.4%)	0.1 (0.2%)
DEC	W	2.5 (5.1%)	0.1 (0.2%)
	AN	2.5 (5.1%)	0 (0%)
	BN	2.7 (5.5%)	0.1 (0.2%)
	D	2.6 (5.3%)	0.2 (0.5%)
	C	2.2 (4.6%)	0.1 (0.1%)
	AVG	2.5 (5.1%)	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.

1 **11D.9.18 Stanislaus River at Knights Ferry**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
3 **Stanislaus River at Knights Ferry, Year-Round**

Alternative 9: Stanislaus River at Knights Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	48	51	51
	C	49	52	52
	AVG	49	52	52
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	49	52	52
	AN	49	53	53
	BN	51	54	54
	D	51	54	54
	C	52	55	55
	AVG	50	54	54
APR	W	50	53	53
	AN	50	54	54
	BN	51	55	55
	D	52	55	55
	C	53	57	57
	AVG	51	54	54
MAY	W	51	55	55
	AN	53	56	56
	BN	54	57	57
	D	55	58	58
	C	56	59	59
	AVG	53	57	57
JUN	W	54	56	56
	AN	56	59	59
	BN	58	61	61
	D	59	63	63
	C	60	64	64
	AVG	57	60	60
JUL	W	57	59	59
	AN	59	62	62
	BN	60	63	63
	D	61	65	65
	C	62	66	66
	AVG	59	63	63

Alternative 9: Stanislaus River at Knights Ferry				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL
AUG	W	58	61	61
	AN	60	63	63
	BN	60	64	64
	D	61	65	65
	C	62	67	67
	AVG	60	64	64
SEP	W	59	62	62
	AN	60	64	64
	BN	61	64	64
	D	62	65	65
	C	63	67	67
	AVG	61	64	64
OCT	W	59	62	62
	AN	59	62	62
	BN	59	62	62
	D	58	62	62
	C	60	64	64
	AVG	59	63	63
NOV	W	56	59	59
	AN	56	59	59
	BN	56	59	59
	D	56	59	59
	C	57	61	61
	AVG	56	60	60
DEC	W	52	55	55
	AN	52	55	55
	BN	51	54	54
	D	51	54	54
	C	52	55	55
	AVG	51	55	55

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Knights Ferry, Year-Round**

Alternative 9: Stanislaus River at Knights Ferry			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
JAN	W	3.1 (6.3%)	0 (0%)
	AN	3.1 (6.3%)	0 (0%)
	BN	3.1 (6.4%)	0 (0%)
	D	3 (6.3%)	0 (0%)
	C	3 (6.2%)	0 (0%)
	AVG	3.1 (6.3%)	0 (0%)
FEB	W	3.1 (6.4%)	0 (0%)
	AN	3.2 (6.5%)	0 (0%)
	BN	3 (6.2%)	0 (0%)
	D	3.2 (6.5%)	0 (0%)
	C	3.1 (6.2%)	0 (0%)
	AVG	3.1 (6.4%)	0 (0%)
MAR	W	3.2 (6.5%)	0 (0%)
	AN	3.6 (7.3%)	0 (0%)
	BN	3.1 (6.1%)	0 (0%)
	D	3.3 (6.5%)	0 (0%)
	C	3 (5.8%)	0 (0%)
	AVG	3.2 (6.5%)	0 (0%)
APR	W	3.1 (6.2%)	0 (0%)
	AN	3.3 (6.5%)	0 (0%)
	BN	3.4 (6.6%)	0 (0%)
	D	3.5 (6.7%)	0 (0%)
	C	3.6 (6.7%)	0 (0%)
	AVG	3.3 (6.5%)	0 (0%)
MAY	W	3 (5.9%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)
	BN	3.5 (6.5%)	0 (0%)
	D	3.4 (6.2%)	0 (0%)
	C	3.3 (5.9%)	0 (0%)
	AVG	3.2 (6%)	0 (0%)
JUN	W	2.6 (4.8%)	0 (0%)
	AN	3.3 (6%)	0 (0%)
	BN	3.6 (6.3%)	0 (0%)
	D	3.8 (6.5%)	0 (0%)
	C	4 (6.6%)	-0.2 (-0.3%)
	AVG	3.4 (5.9%)	0 (-0.1%)
JUL	W	2.5 (4.4%)	0 (0%)
	AN	3.3 (5.7%)	0 (0%)
	BN	3.5 (5.9%)	0 (0%)
	D	3.7 (6.1%)	0 (0%)
	C	4.6 (7.4%)	0.5 (0.7%)
	AVG	3.4 (5.8%)	0.1 (0.1%)

Alternative 9: Stanislaus River at Knights Ferry			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
AUG	W	3.4 (5.8%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)
	BN	3.5 (5.8%)	0 (0%)
	D	3.6 (5.8%)	0 (0%)
	C	4.3 (6.9%)	0 (0%)
	AVG	3.6 (6%)	0 (0%)
SEP	W	3.5 (6%)	0 (0%)
	AN	3.6 (6%)	0 (0%)
	BN	3.6 (5.9%)	0 (0%)
	D	3.7 (6%)	0 (0%)
	C	3.9 (6.2%)	0 (0%)
	AVG	3.6 (6%)	0 (0%)
OCT	W	3.5 (5.9%)	0 (0%)
	AN	3.2 (5.4%)	0.2 (0.3%)
	BN	3.3 (5.6%)	0 (0%)
	D	3.5 (5.9%)	0 (0%)
	C	3.6 (6%)	-0.1 (-0.2%)
	AVG	3.4 (5.8%)	0 (0%)
NOV	W	3.3 (5.9%)	0 (0%)
	AN	3.1 (5.5%)	0 (0%)
	BN	3.3 (5.8%)	0 (0%)
	D	3.4 (6%)	0 (0%)
	C	3.4 (6%)	0 (-0.1%)
	AVG	3.3 (5.8%)	0 (0%)
DEC	W	3.3 (6.4%)	0 (0%)
	AN	3 (5.9%)	0 (0%)
	BN	3.3 (6.4%)	0 (0%)
	D	3.2 (6.2%)	0 (0%)
	C	3.3 (6.3%)	0 (0%)
	AVG	3.2 (6.3%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.9.19 Stanislaus River at Orange Blossom Bridge**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
3 **Stanislaus River at Orange Blossom Bridge, Year-Round**

Alternative 9: Stanislaus River at Orange Blossom Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	48	51	51
	AN	48	51	51
	BN	48	51	51
	D	47	50	50
	C	48	51	51
	AVG	48	51	51
FEB	W	49	52	52
	AN	49	52	52
	BN	49	52	52
	D	49	52	52
	C	50	53	53
	AVG	49	52	52
MAR	W	49	53	53
	AN	50	54	54
	BN	52	55	55
	D	52	56	56
	C	53	56	56
	AVG	51	54	54
APR	W	50	53	53
	AN	51	54	54
	BN	52	56	56
	D	53	56	56
	C	55	58	58
	AVG	52	55	55
MAY	W	53	56	56
	AN	54	57	57
	BN	55	59	59
	D	56	60	60
	C	58	61	61
	AVG	55	58	58
JUN	W	56	58	58
	AN	58	62	62
	BN	60	64	64
	D	62	66	66
	C	63	67	67
	AVG	59	63	63
JUL	W	60	62	62
	AN	63	66	66
	BN	63	67	67
	D	64	68	68
	C	65	69	69
	AVG	63	66	66

Alternative 9: Stanislaus River at Orange Blossom Bridge				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL
AUG	W	60	64	64
	AN	63	66	66
	BN	63	66	66
	D	64	68	68
	C	65	69	69
	AVG	63	66	66
SEP	W	60	64	64
	AN	63	66	66
	BN	63	67	67
	D	63	67	67
	C	64	68	68
	AVG	62	66	66
OCT	W	59	62	62
	AN	59	62	62
	BN	59	62	62
	D	59	62	62
	C	60	64	64
	AVG	59	62	63
NOV	W	55	58	58
	AN	55	58	58
	BN	55	58	58
	D	55	58	58
	C	56	59	59
	AVG	55	58	58
DEC	W	50	54	53
	AN	50	53	53
	BN	49	53	53
	D	50	52	52
	C	50	53	53
	AVG	50	53	53

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Orange Blossom Bridge, Year-Round**

Alternative 9: Stanislaus River at Orange Blossom Bridge			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
JAN	W	3 (6.2%)	0 (0%)
	AN	3 (6.3%)	0 (0%)
	BN	2.9 (6.1%)	0 (0%)
	D	2.8 (5.9%)	0 (0%)
	C	2.8 (5.8%)	0 (0%)
	AVG	2.9 (6.1%)	0 (0%)
FEB	W	3.1 (6.3%)	0 (0%)
	AN	3.1 (6.3%)	0 (0%)
	BN	3 (6%)	0 (0%)
	D	3.2 (6.5%)	0 (0%)
	C	3.2 (6.3%)	0 (0%)
	AVG	3.1 (6.3%)	0 (0%)
MAR	W	3.2 (6.4%)	0 (0%)
	AN	3.7 (7.3%)	0 (0%)
	BN	3 (5.8%)	0 (0%)
	D	3.4 (6.6%)	0 (0%)
	C	3.1 (5.8%)	0 (0%)
	AVG	3.3 (6.4%)	0 (0%)
APR	W	3.1 (6.1%)	0 (0%)
	AN	3.3 (6.5%)	0 (0%)
	BN	3.5 (6.7%)	0 (0%)
	D	3.6 (6.8%)	0 (0%)
	C	3.6 (6.6%)	0 (0%)
	AVG	3.4 (6.5%)	0 (0%)
MAY	W	3.2 (6%)	0 (0%)
	AN	3.2 (6%)	0 (0%)
	BN	3.9 (7.1%)	0 (0%)
	D	3.6 (6.5%)	0 (0%)
	C	3.4 (6%)	0 (0%)
	AVG	3.4 (6.2%)	0 (0%)
JUN	W	2.3 (4.1%)	0 (0%)
	AN	3.8 (6.5%)	0 (0%)
	BN	3.9 (6.5%)	0 (0%)
	D	4.3 (6.9%)	0 (0%)
	C	4 (6.4%)	-0.1 (-0.1%)
	AVG	3.5 (5.9%)	0 (0%)
JUL	W	2.1 (3.5%)	0 (0%)
	AN	3.5 (5.7%)	0 (0%)
	BN	3.5 (5.6%)	0 (0%)
	D	3.9 (6.1%)	0.1 (0.1%)
	C	4.3 (6.7%)	0.3 (0.4%)
	AVG	3.3 (5.3%)	0.1 (0.1%)

Alternative 9: Stanislaus River at Orange Blossom Bridge			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
AUG	W	3.9 (6.4%)	0 (0%)
	AN	3.5 (5.7%)	0 (0%)
	BN	3.5 (5.5%)	0 (0%)
	D	3.5 (5.5%)	0 (0%)
	C	4.2 (6.5%)	0 (0%)
	AVG	3.7 (6%)	0 (0%)
SEP	W	3.8 (6.3%)	0 (0%)
	AN	3.9 (6.2%)	0 (0%)
	BN	3.7 (6%)	0 (0%)
	D	3.7 (5.9%)	0 (0%)
	C	3.9 (6.1%)	0 (0%)
	AVG	3.8 (6.1%)	0 (0%)
OCT	W	3.3 (5.6%)	0 (0%)
	AN	3.1 (5.3%)	0.1 (0.1%)
	BN	3.2 (5.4%)	0 (0%)
	D	3.4 (5.7%)	0 (0%)
	C	3.5 (5.8%)	0 (-0.1%)
	AVG	3.3 (5.6%)	0 (0%)
NOV	W	3.1 (5.7%)	0 (0%)
	AN	3.1 (5.6%)	0 (0%)
	BN	3.2 (5.8%)	0 (0%)
	D	3.2 (5.9%)	0 (0%)
	C	3.2 (5.7%)	0 (0%)
	AVG	3.1 (5.7%)	0 (0%)
DEC	W	3.2 (6.3%)	0 (-0.1%)
	AN	2.9 (5.8%)	0 (0%)
	BN	3.3 (6.6%)	0 (0%)
	D	3 (6%)	0 (0%)
	C	3.1 (6.2%)	0 (0%)
	AVG	3.1 (6.2%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.9.20 Stanislaus River at Riverbank**

2 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
3 **Stanislaus River at Riverbank, Year-Round**

Alternative 9: Stanislaus River at Riverbank				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL1
JAN	W	47	50	50
	AN	47	49	49
	BN	46	49	49
	D	45	48	48
	C	46	49	49
	AVG	46	49	49
FEB	W	49	52	52
	AN	50	53	53
	BN	50	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	51	54	54
	AN	52	55	55
	BN	53	56	56
	D	54	57	57
	C	54	57	57
	AVG	52	56	56
APR	W	52	55	55
	AN	53	56	56
	BN	54	57	57
	D	54	58	58
	C	57	60	60
	AVG	54	57	57
MAY	W	56	59	59
	AN	57	60	60
	BN	58	62	62
	D	59	62	62
	C	60	64	64
	AVG	58	61	61
JUN	W	60	62	62
	AN	62	66	66
	BN	64	68	68
	D	66	70	70
	C	66	70	70
	AVG	63	67	67
JUL	W	65	67	67
	AN	68	71	71
	BN	68	71	71
	D	68	72	72
	C	68	72	72
	AVG	67	70	70

Alternative 9: Stanislaus River at Riverbank				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL
AUG	W	65	69	69
	AN	67	70	70
	BN	67	70	70
	D	68	71	71
	C	67	71	71
	AVG	66	70	70
SEP	W	64	67	67
	AN	66	70	70
	BN	66	69	69
	D	66	70	70
	C	66	70	70
	AVG	65	69	69
OCT	W	59	63	63
	AN	59	62	62
	BN	59	62	62
	D	59	62	62
	C	61	64	64
	AVG	60	63	63
NOV	W	53	56	56
	AN	53	56	56
	BN	53	56	56
	D	53	56	56
	C	54	57	57
	AVG	53	56	56
DEC	W	48	51	51
	AN	48	50	50
	BN	47	50	50
	D	47	50	50
	C	47	50	50
	AVG	47	50	50

1 **Table 2. Differences (°F)^a (Percent Differences) between Pairs of Model Scenarios in Mean Monthly**
2 **Water Temperatures in the Stanislaus River at Riverbank, Year-Round**

Alternative 9: Stanislaus River at Riverbank			
Month	WYT	EXISTING CONDITIONS vs. A9_LL1	NAA vs. A9_LL1
JAN	W	2.9 (6.3%)	0 (0%)
	AN	3 (6.4%)	0 (0%)
	BN	2.8 (6%)	0 (0%)
	D	2.5 (5.6%)	0 (0%)
	C	2.7 (5.8%)	0 (0%)
	AVG	2.8 (6.1%)	0 (0%)
FEB	W	2.9 (5.9%)	0 (0%)
	AN	2.9 (5.8%)	0 (0%)
	BN	2.7 (5.5%)	0 (0%)
	D	3 (6.1%)	0 (0%)
	C	3.1 (6%)	0 (0%)
	AVG	2.9 (5.9%)	0 (0%)
MAR	W	3 (5.9%)	0 (0%)
	AN	3.6 (7%)	0 (0%)
	BN	2.8 (5.3%)	0 (0%)
	D	3.4 (6.4%)	0 (0%)
	C	3 (5.6%)	0 (0%)
	AVG	3.2 (6%)	0 (0%)
APR	W	3 (5.7%)	0 (0%)
	AN	3.2 (6.1%)	0 (0%)
	BN	3.6 (6.6%)	0 (0%)
	D	3.6 (6.7%)	0 (0%)
	C	3.6 (6.3%)	0 (0%)
	AVG	3.3 (6.2%)	0 (0%)
MAY	W	3.2 (5.8%)	0 (0%)
	AN	3.4 (6%)	0 (0%)
	BN	4.2 (7.4%)	0 (0%)
	D	3.9 (6.6%)	0 (0%)
	C	3.5 (5.7%)	0 (0%)
	AVG	3.6 (6.2%)	0 (0%)
JUN	W	2 (3.4%)	0 (0%)
	AN	4 (6.4%)	0 (0%)
	BN	3.7 (5.7%)	0 (0%)
	D	4 (6.1%)	0 (0%)
	C	3.7 (5.5%)	0 (0%)
	AVG	3.3 (5.2%)	0 (0%)
JUL	W	1.8 (2.8%)	0 (0%)
	AN	3.3 (4.8%)	0 (0%)
	BN	3.1 (4.6%)	0 (0%)
	D	3.6 (5.3%)	0 (0.1%)
	C	3.7 (5.3%)	0.1 (0.2%)
	AVG	3 (4.4%)	0 (0.1%)

Alternative 9: Stanislaus River at Riverbank			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
AUG	W	4.1 (6.4%)	0 (0%)
	AN	3.4 (5.1%)	0 (0%)
	BN	3.2 (4.8%)	0 (0%)
	D	3.3 (4.9%)	0 (0%)
	C	3.8 (5.7%)	0 (0%)
	AVG	3.6 (5.5%)	0 (0%)
SEP	W	3.9 (6.2%)	0 (0%)
	AN	3.9 (5.9%)	0 (0%)
	BN	3.7 (5.7%)	0 (0%)
	D	3.7 (5.6%)	0 (0%)
	C	3.7 (5.7%)	0 (-0.1%)
	AVG	3.8 (5.9%)	0 (0%)
OCT	W	3.1 (5.3%)	0 (0%)
	AN	2.9 (5%)	0 (0%)
	BN	2.9 (4.9%)	0 (0%)
	D	3.1 (5.2%)	0 (0%)
	C	3.3 (5.5%)	0 (0%)
	AVG	3.1 (5.2%)	0 (0%)
NOV	W	3 (5.7%)	0 (0%)
	AN	3.1 (5.9%)	0 (0%)
	BN	3.1 (5.8%)	0 (0%)
	D	3.1 (5.8%)	0 (0%)
	C	3 (5.6%)	0 (0%)
	AVG	3.1 (5.8%)	0 (0%)
DEC	W	3 (6.3%)	-0.1 (-0.1%)
	AN	2.9 (6.1%)	0 (0%)
	BN	3.3 (7%)	0 (0%)
	D	2.8 (5.9%)	0 (0%)
	C	2.9 (6.2%)	0 (0%)
	AVG	3 (6.3%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

1 **11D.9.21 Stanislaus River at the Confluence with the San**
2 **Joaquin River**

3 **Table 1. Mean Monthly Water Temperatures (°F) for Baseline and Alternative 9 Model Scenarios in the**
4 **Stanislaus River at the Confluence with the San Joaquin River, Year-Round**

Alternative 9: Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL
JAN	W	46	49	49
	AN	46	49	49
	BN	46	49	49
	D	45	47	47
	C	45	48	48
	AVG	46	48	48
FEB	W	50	53	53
	AN	50	53	53
	BN	50	52	52
	D	50	53	53
	C	51	54	54
	AVG	50	53	53
MAR	W	52	55	55
	AN	53	56	56
	BN	54	57	57
	D	55	58	58
	C	55	58	58
	AVG	54	56	56
APR	W	54	57	57
	AN	55	58	58
	BN	56	60	60
	D	57	60	60
	C	59	62	62
	AVG	56	59	59
MAY	W	59	62	62
	AN	60	63	63
	BN	60	64	64
	D	61	65	65
	C	63	66	66
	AVG	60	64	64
JUN	W	62	65	65
	AN	65	69	69
	BN	66	70	70
	D	68	72	72
	C	68	71	71
	AVG	65	69	69

Alternative 9: Stanislaus River at the Confluence with the San Joaquin River				
Month	WYT	EXISTING CONDITIONS	NAA	A9_LL
JUL	W	68	70	70
	AN	70	73	73
	BN	70	73	73
	D	70	74	74
	C	70	73	73
	AVG	69	72	72
AUG	W	67	71	71
	AN	69	72	72
	BN	68	71	71
	D	69	72	72
	C	69	72	72
	AVG	68	72	72
SEP	W	65	69	69
	AN	67	71	71
	BN	67	70	70
	D	67	70	70
	C	67	70	70
	AVG	66	70	70
OCT	W	60	63	63
	AN	60	62	62
	BN	59	62	62
	D	59	62	62
	C	61	64	64
	AVG	60	63	63
NOV	W	53	56	56
	AN	52	55	55
	BN	52	55	55
	D	52	55	55
	C	53	56	56
	AVG	52	55	55
DEC	W	47	50	50
	AN	46	49	49
	BN	45	49	49
	D	45	48	48
	C	45	48	48
	AVG	46	49	49

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

Alternative 9: Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT	EXISTING CONDITIONS vs. A9_LLТ	NAA vs. A9_LLТ
JAN	W	2.9 (6.3%)	0 (0%)
	AN	2.9 (6.4%)	0 (0%)
	BN	2.8 (6.1%)	0 (0%)
	D	2.5 (5.7%)	0 (0%)
	C	2.8 (6.1%)	0 (0%)
	AVG	2.8 (6.2%)	0 (0%)
FEB	W	2.8 (5.7%)	0 (0%)
	AN	2.8 (5.6%)	0 (0%)
	BN	2.6 (5.2%)	0 (0%)
	D	2.8 (5.6%)	0 (0%)
	C	2.9 (5.6%)	0 (0%)
	AVG	2.8 (5.6%)	0 (0%)
MAR	W	2.8 (5.5%)	0 (0%)
	AN	3.3 (6.3%)	0 (0%)
	BN	2.6 (4.9%)	0 (0%)
	D	3.2 (5.8%)	0 (0%)
	C	2.8 (5.1%)	0 (0%)
	AVG	3 (5.5%)	0 (0%)
APR	W	2.8 (5.2%)	0 (0%)
	AN	3.1 (5.6%)	0 (0%)
	BN	3.4 (6.1%)	0 (0%)
	D	3.5 (6.1%)	0 (0%)
	C	3.2 (5.5%)	0 (0%)
	AVG	3.2 (5.6%)	0 (0%)
MAY	W	3.1 (5.3%)	0 (0%)
	AN	3.4 (5.7%)	0 (0%)
	BN	4.1 (6.8%)	0 (0%)
	D	3.7 (6%)	0 (0%)
	C	3.2 (5.1%)	0 (0%)
	AVG	3.4 (5.7%)	0 (0%)
JUN	W	2.3 (3.6%)	0 (0%)
	AN	3.7 (5.8%)	0 (0%)
	BN	3.3 (5.1%)	0 (0%)
	D	3.4 (5%)	0 (0%)
	C	3.3 (4.8%)	0 (0%)
	AVG	3.1 (4.7%)	0 (0%)
JUL	W	2.3 (3.3%)	0 (0%)
	AN	3 (4.2%)	0 (0%)
	BN	2.8 (4%)	0 (0%)
	D	3.2 (4.6%)	0 (0%)
	C	3.2 (4.6%)	0 (0.1%)
	AVG	2.8 (4.1%)	0 (0%)

Alternative 9: Stanislaus River at the Confluence with the San Joaquin River			
Month	WYT	EXISTING CONDITIONS vs. A9_LLT	NAA vs. A9_LLT
AUG	W	4.1 (6.1%)	0 (0%)
	AN	3.2 (4.7%)	0 (0%)
	BN	3.1 (4.5%)	0 (0%)
	D	3.1 (4.5%)	0 (0%)
	C	3.6 (5.2%)	0 (0%)
	AVG	3.5 (5.1%)	0 (0%)
SEP	W	3.9 (6%)	0 (0%)
	AN	3.7 (5.6%)	0 (0%)
	BN	3.7 (5.5%)	0 (0%)
	D	3.7 (5.5%)	0 (0%)
	C	3.7 (5.5%)	0 (0%)
	AVG	3.8 (5.7%)	0 (0%)
OCT	W	3 (5%)	0 (0%)
	AN	2.8 (4.8%)	0 (0%)
	BN	2.7 (4.5%)	0 (0%)
	D	2.9 (4.9%)	0 (0%)
	C	3.2 (5.3%)	0 (0%)
	AVG	3 (4.9%)	0 (0%)
NOV	W	3 (5.8%)	0 (0%)
	AN	3.2 (6%)	0 (0%)
	BN	3.1 (5.9%)	0 (0%)
	D	3.1 (5.9%)	0 (0%)
	C	2.9 (5.6%)	0 (0%)
	AVG	3.1 (5.8%)	0 (0%)
DEC	W	3 (6.4%)	-0.1 (-0.1%)
	AN	2.9 (6.2%)	0 (0%)
	BN	3.2 (7.1%)	0 (0%)
	D	2.8 (6.1%)	0 (0%)
	C	2.9 (6.4%)	0 (0%)
	AVG	3 (6.4%)	0 (0%)

^a Red boxes indicate that water temperatures under the alternative are more than 5% greater than water temperatures under the baseline.

