

Attachment H2
Aquatic Resources Impact Tables

Table Organization

The tables in this appendix are organized by parameter and alternative, generally with one table for each combination. DSM2 runs were not made for Alternatives A1, A2 and C, so parameters estimated from these runs (reverse flows, source fraction within the Delta) are not available for all alternative plans. Temperature modeling in the Stanislaus River was conducted for Alternatives A2, B2, C and D. Alternatives A1 and B1 were not modeled as these alternatives would not change conditions in the Stanislaus River relative to the No-Action Alternative. Each table is organized into four blocks of information. The uppermost block shows the values of the parameter that would be expected to occur under that alternative *when recirculation is occurring*. The second block from the top shows the values that would occur under the No-Action Alternative for the corresponding time periods (when recirculation would occur under the alternative being considered). The third block shows the difference between the Alternative and the No-Action Alternative, and the final block shows the percent difference from the No-Action Alternative. For the source fraction tables, this last table is omitted, as calculating percent change from a percentage resulted in numbers that were not informative.

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Table H2-1
Average Delta Outflow (cfs) when Recirculation is Occurring for Alternative A1

Alternative A1

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											9,508			
Above Normal					10,229	23,435	8,514				9,019			
Below Normal					18,223	43,778								
Dry					15,735	20,606	9,621			10,186	6,448			
Critically Dry						10,937	9,993			10,147	6,406			
All					15,647	23,364	9,622			10,167	7,468			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											10,094			
Above Normal					11,400	24,826	11,197				10,379			
Below Normal					18,752	44,055								
Dry					16,278	21,469	10,422			10,601	6,627			
Critically Dry						11,010	10,289			10,247	6,733			
All					16,290	24,309	10,475			10,424	8,012			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											-586			
Above Normal					-1,171	-1,391	-2,683				-1,360			
Below Normal					-529	-277								
Dry					-543	-862	-801			-415	-179			
Critically Dry						-73	-296			-100	-327			
All					-643	-945	-853			-258	-544			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											-5.8%			
Above Normal					-10.3%	-5.6%	-24.0%				-13.1%			
Below Normal					-2.8%	-0.6%								
Dry					-3.3%	-4.0%	-7.7%			-3.9%	-2.7%			
Critically Dry						-0.7%	-2.9%			-1.0%	-4.9%			
All					-3.9%	-3.9%	-8.1%			-2.5%	-6.8%			

Table H2-2
Average Delta Outflow (cfs) when Recirculation is Occurring for Alternative A2

Alternative A2

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											10,095			
Above Normal					11,400	22,099	11,197				10,379			
Below Normal					30,275	41,801								
Dry					14,002	21,469	10,422			10,601	6,627			
Critically Dry					13,817	11,010	10,446			6,545	6,733			
All					18,153	24,501	10,514			7,356	8,012			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											10,094			
Above Normal					11,400	22,102	11,197				10,379			
Below Normal					30,360	41,920								
Dry					14,002	21,469	10,422			10,601	6,627			
Critically Dry					13,831	11,010	10,446			6,566	6,733			
All					18,180	24,524	10,514			7,373	8,012			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											1			
Above Normal					0	-3	0				0			
Below Normal					-85	-120								
Dry					0	0	0			0	0			
Critically Dry					-14	0	0			-21	0			
All					-27	-23	0			-17	0			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											0.0%			
Above Normal					0.0%	0.0%	0.0%				0.0%			
Below Normal					-0.3%	-0.3%								
Dry					0.0%	0.0%	0.0%			0.0%	0.0%			
Critically Dry					-0.1%	0.0%	0.0%			-0.3%	0.0%			
All					-0.1%	-0.1%	0.0%			-0.2%	0.0%			

Table H2-3
Average Delta Outflow (cfs) when Recirculation is Occurring for Alternative B1

Alternative B1

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						32,710					9,508			
Above Normal					10,229	23,435	8,514			10,796	9,241			
Below Normal					17,659	43,778				13,361	11,315			
Dry					15,586	19,368	9,621			9,852	6,138			
Critically Dry						10,937	9,993	8,897	5,721	10,147	6,406			
All					15,384	23,512	9,622	8,897	5,721	11,761	8,312			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						33,373					10,094			
Above Normal					11,400	24,826	11,197			10,956	10,282			
Below Normal					18,752	44,055				13,909	11,854			
Dry					16,278	20,245	10,422			10,149	6,407			
Critically Dry						11,010	10,289	9,375	6,229	10,247	6,733			
All					16,290	24,429	10,475	9,375	6,229	12,142	8,951			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						-663					-586			
Above Normal					-1,171	-1,391	-2,683			-161	-1,042			
Below Normal					-1,093	-277				-548	-540			
Dry					-693	-878	-801			-298	-269			
Critically Dry						-73	-296	-478	-508	-100	-327			
All					-906	-917	-853	-478	-508	-381	-639			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						-2.0%					-5.8%			
Above Normal					-10.3%	-5.6%	-24.0%			-1.5%	-10.1%			
Below Normal					-5.8%	-0.6%				-3.9%	-4.6%			
Dry					-4.3%	-4.3%	-7.7%			-2.9%	-4.2%			
Critically Dry						-0.7%	-2.9%	-5.1%	-8.2%	-1.0%	-4.9%			
All					-5.6%	-3.8%	-8.1%	-5.1%	-8.2%	-3.1%	-7.1%			

Table H2-4
Average Delta Outflow (cfs) when Recirculation is Occurring for Alternative B2

Alternative B2

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						33,374					9,179			
Above Normal					11,400	22,099	11,197			10,956	9,697			
Below Normal					30,275	41,801				13,909	11,854			
Dry					14,002	20,245	10,422			10,149	6,407			
Critically Dry					13,817	11,010	10,446	9,500	5,730	6,545	6,733			
All					18,153	24,574	10,514	9,500	5,730	10,279	8,929			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						33,373					9,339			
Above Normal					11,400	22,102	11,197			10,956	9,765			
Below Normal					30,360	41,920				13,909	11,854			
Dry					14,002	20,245	10,422			10,149	6,407			
Critically Dry					13,831	11,010	10,446	9,500	5,729	6,566	6,733			
All					18,180	24,594	10,514	9,500	5,729	10,287	8,980			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						1					-160			
Above Normal					0	-3	0			0	-68			
Below Normal					-85	-120				0	0			
Dry					0	0	0			0	0			
Critically Dry					-14	0	0	0	1	-21	0			
All					-27	-19	0	0	1	-7	-51			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.0%					-1.7%			
Above Normal					0.0%	0.0%	0.0%			0.0%	-0.7%			
Below Normal					-0.3%	-0.3%				0.0%	0.0%			
Dry					0.0%	0.0%	0.0%			0.0%	0.0%			
Critically Dry					-0.1%	0.0%	0.0%	0.0%	0.0%	-0.3%	0.0%			
All					-0.1%	-0.1%	0.0%	0.0%	0.0%	-0.1%	-0.6%			

Table H2-5
Average Delta Outflow (cfs) when Recirculation is Occurring for Alternative C

Alternative C

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet					50,994	33,513	25,588			26,366	9,179			
Above Normal					40,779	22,100	13,323		12,414	18,390	9,597			
Below Normal					29,874	25,984	15,403		14,559	18,029	10,517			
Dry					14,089	17,466	10,966			9,979	6,481			
Critically Dry					13,817	11,010	10,446	10,830	6,725	6,551	6,368			
All					24,263	21,652	13,271	10,830	8,505	14,656	8,505			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet					50,074	33,373	24,550			26,156	9,339			
Above Normal					40,218	22,102	13,306		11,389	17,974	9,567			
Below Normal					29,924	25,875	14,940		13,726	17,852	10,360			
Dry					14,089	17,355	10,627			9,847	6,436			
Critically Dry					13,831	11,010	10,446	10,389	6,415	6,566	6,333			
All					24,143	21,578	12,961	10,389	8,048	14,501	8,466			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet					919	140	1,038			210	-159			
Above Normal					561	-2	17		1,025	416	30			
Below Normal					-50	109	463		833	177	157			
Dry					0	111	339			132	45			
Critically Dry					-14	0	0	441	310	-15	35			
All					120	75	310	441	457	155	39			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet					1.8%	0.4%	4.2%			0.8%	-1.7%			
Above Normal					1.4%	0.0%	0.1%		9.0%	2.3%	0.3%			
Below Normal					-0.2%	0.4%	3.1%		6.1%	1.0%	1.5%			
Dry					0.0%	0.6%	3.2%			1.3%	0.7%			
Critically Dry					-0.1%	0.0%	0.0%	4.2%	4.8%	-0.2%	0.6%			
All					0.5%	0.3%	2.4%	4.2%	5.7%	1.1%	0.5%			

Table H2-6
Average Delta Outflow (cfs) when Recirculation is Occurring for Alternative D

Alternative D

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	3,624				50,994	33,513	25,588			26,366	9,205			
Above Normal					40,779	22,100	13,323		12,414	18,390	9,597			
Below Normal					29,874	23,606	15,403		14,559	18,029	10,517			
Dry					14,089	16,420	10,966			9,873	6,481			
Critically Dry					13,915	16,445	10,835	10,835	6,731	7,016	6,368			
All	3,624				23,063	19,835	12,997	10,835	8,509	12,470	8,507			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	3,530				50,074	33,373	24,550			26,156	9,339			
Above Normal					40,218	22,102	13,306		11,389	17,974	9,567			
Below Normal					29,924	23,509	14,940		13,726	17,852	10,360			
Dry					14,089	16,306	10,627			9,767	6,436			
Critically Dry					13,889	16,187	10,804	10,389	6,415	6,966	6,333			
All	3,530				22,947	19,707	12,721	10,389	8,048	12,340	8,466			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	94				919	140	1,038			210	-133			
Above Normal					561	-2	17		1,025	416	30			
Below Normal					-50	97	463		833	178	157			
Dry					0	114	339			106	45			
Critically Dry					26	258	31	446	316	50	35			
All	94				116	127	276	446	461	131	41			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	2.7%				1.8%	0.4%	4.2%			0.8%	-1.4%			
Above Normal					1.4%	0.0%	0.1%		9.0%	2.3%	0.3%			
Below Normal					-0.2%	0.4%	3.1%		6.1%	1.0%	1.5%			
Dry					0.0%	0.7%	3.2%			1.1%	0.7%			
Critically Dry					0.2%	1.6%	0.3%	4.3%	4.9%	0.7%	0.6%			
All	2.7%				0.5%	0.6%	2.2%	4.3%	5.7%	1.1%	0.5%			

Table H2-7
Average Combined Exports (cfs) when Recirculation is Occurring for Alternative A1

Alternative A1

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											5,251			
Above Normal					6,327	8,596	2,498				5,365			
Below Normal					4,804	9,833								
Dry					4,670	8,567	4,148			4,028	3,647			
Critically Dry						6,540	2,240			5,914	2,908			
All					4,991	8,495	3,095			4,971	4,185			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											4,958			
Above Normal					5,741	7,901	1,157				4,685			
Below Normal					4,540	9,694								
Dry					4,398	8,136	3,748			3,820	3,557			
Critically Dry						6,503	2,092			5,864	2,745			
All					4,669	8,023	2,668			4,842	3,913			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											293			
Above Normal					586	696	1,341				680			
Below Normal					265	138								
Dry					272	431	400			207	90			
Critically Dry						37	148			50	164			
All					322	472	427			129	272			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											5.9%			
Above Normal					10.2%	8.8%	115.9%				14.5%			
Below Normal					5.8%	1.4%								
Dry					6.2%	5.3%	10.7%			5.4%	2.5%			
Critically Dry						0.6%	7.1%			0.9%	6.0%			
All					6.9%	5.9%	16.0%			2.7%	6.9%			

Table H2-8
Average Combined Exports (cfs) when Recirculation is Occurring for Alternative A2

Alternative A2

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											5,250			
Above Normal					6,327	8,224	2,498				5,365			
Below Normal					6,894	9,881								
Dry					4,923	8,567	4,148			4,028	3,647			
Critically Dry					6,605	6,587	2,720			3,280	2,908			
All					6,047	8,470	3,126			3,430	4,185			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											4,958			
Above Normal					5,741	7,665	1,157				4,685			
Below Normal					6,670	9,692								
Dry					4,679	8,136	3,748			3,820	3,557			
Critically Dry					6,324	6,503	2,547			3,140	2,745			
All					5,767	8,056	2,768			3,276	3,913			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											292			
Above Normal					586	559	1,341				680			
Below Normal					224	189								
Dry					243	431	400			207	90			
Critically Dry					281	83	173			140	164			
All					280	414	358			154	272			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											5.9%			
Above Normal					10.2%	7.3%	115.9%				14.5%			
Below Normal					3.4%	1.9%								
Dry					5.2%	5.3%	10.7%			5.4%	2.5%			
Critically Dry					4.4%	1.3%	6.8%			4.5%	6.0%			
All					4.8%	5.1%	12.9%			4.7%	6.9%			

Table H2-9
Average Combined Exports (cfs) when Recirculation is Occurring for Alternative B1

Alternative B1

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						11,755					5,251			
Above Normal					6,327	8,596	2,498			4,081	6,629			
Below Normal					5,086	9,833				4,839	7,424			
Dry					4,744	8,552	4,148			4,233	3,765			
Critically Dry						6,540	2,240	1,514	1,602	5,914	2,908			
All					5,122	8,793	3,095	1,514	1,602	4,727	5,440			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						11,424					4,958			
Above Normal					5,741	7,901	1,157			4,001	6,108			
Below Normal					4,540	9,694				4,565	7,154			
Dry					4,398	8,113	3,748			4,084	3,630			
Critically Dry						6,503	2,092	1,275	1,348	5,864	2,745			
All					4,669	8,334	2,668	1,275	1,348	4,537	5,121			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						332					293			
Above Normal					586	696	1,341			80	521			
Below Normal					547	138				274	270			
Dry					346	439	400			149	134			
Critically Dry						37	148	239	254	50	164			
All					453	459	427	239	254	190	320			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						2.9%					5.9%			
Above Normal					10.2%	8.8%	115.9%			2.0%	8.5%			
Below Normal					12.0%	1.4%				6.0%	3.8%			
Dry					7.9%	5.4%	10.7%			3.6%	3.7%			
Critically Dry						0.6%	7.1%	18.8%	18.9%	0.9%	6.0%			
All					9.7%	5.5%	16.0%	18.8%	18.9%	4.2%	6.2%			

Table H2-10
Average Combined Exports (cfs) when Recirculation is Occurring for Alternative B2

Alternative B2

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						11,755					5,163			
Above Normal					6,327	8,224	2,498			4,081	6,643			
Below Normal					7,120	9,881				4,839	7,424			
Dry					4,978	8,552	4,148			4,233	3,765			
Critically Dry					6,605	6,587	2,720	1,514	1,554	3,280	2,908			
All					6,129	8,726	3,126	1,514	1,554	4,093	5,713			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						11,424					4,856			
Above Normal					5,741	7,665	1,157			4,001	6,290			
Below Normal					6,670	9,692				4,565	7,154			
Dry					4,679	8,113	3,748			4,084	3,630			
Critically Dry					6,324	6,503	2,547	1,230	1,226	3,140	2,745			
All					5,767	8,314	2,768	1,230	1,226	3,908	5,434			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						332					306			
Above Normal					586	559	1,341			80	352			
Below Normal					450	189				274	270			
Dry					299	439	401			149	134			
Critically Dry					281	83	173	284	329	140	164			
All					361	411	358	284	329	185	279			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						2.9%					6.3%			
Above Normal					10.2%	7.3%	115.9%			2.0%	5.6%			
Below Normal					6.7%	1.9%				6.0%	3.8%			
Dry					6.4%	5.4%	10.7%			3.6%	3.7%			
Critically Dry					4.4%	1.3%	6.8%	23.1%	26.8%	4.5%	6.0%			
All					6.3%	4.9%	12.9%	23.1%	26.8%	4.7%	5.1%			

Table H2-11
Average Combined Exports (cfs) when Recirculation is Occurring for Alternative C

Alternative C

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet					12,114	11,755	9,821			8,603	5,162			
Above Normal					9,294	8,223	5,287		3,737	6,881	6,618			
Below Normal					8,345	9,101	8,065		3,276	6,030	7,337			
Dry					5,715	7,910	5,184			4,669	4,726			
Critically Dry					6,605	6,587	2,720	1,556	1,598	3,287	2,461			
All					7,498	8,468	5,580	1,556	2,056	5,498	5,743			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet					12,114	11,424	9,821			8,603	4,856			
Above Normal					9,002	7,665	4,616		3,737	6,841	6,295			
Below Normal					8,008	9,026	8,065		3,276	5,847	7,202			
Dry					5,476	7,619	5,034			4,596	4,651			
Critically Dry					6,324	6,503	2,547	1,399	1,380	3,140	2,379			
All					7,233	8,172	5,424	1,399	1,892	5,384	5,541			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet					0	332	0			0	306			
Above Normal					293	558	671		0	40	323			
Below Normal					337	75	0		0	182	135			
Dry					239	291	150			73	75			
Critically Dry					281	83	173	156	218	147	82			
All					265	296	156	156	164	114	202			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet					0.0%	2.9%	0.0%			0.0%	6.3%			
Above Normal					3.3%	7.3%	14.5%		0.0%	0.6%	5.1%			
Below Normal					4.2%	0.8%	0.0%		0.0%	3.1%	1.9%			
Dry					4.4%	3.8%	3.0%			1.6%	1.6%			
Critically Dry					4.4%	1.3%	6.8%	11.2%	15.8%	4.7%	3.4%			
All					3.7%	3.6%	2.9%	11.2%	8.6%	2.1%	3.6%			

Table H2-12
Average Combined Exports (cfs) when Recirculation is Occurring for Alternative D

Alternative D

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	4,137				12,114	11,755	9,821			8,603	5,136			
Above Normal					9,294	8,223	5,287		3,737	6,881	6,618			
Below Normal					8,345	8,664	8,065		3,276	6,030	7,337			
Dry					5,715	7,587	5,184			4,884	4,726			
Critically Dry					6,984	7,653	4,000	1,556	1,598	3,945	2,461			
All	4,137				7,504	8,136	5,630	1,556	2,056	5,191	5,741			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	4,137				12,114	11,424	9,821			8,603	4,856			
Above Normal					9,002	7,665	4,616		3,737	6,841	6,295			
Below Normal					8,008	8,601	8,065		3,276	5,847	7,202			
Dry					5,476	7,338	5,034			4,825	4,651			
Critically Dry					6,815	7,634	3,898	1,399	1,380	3,892	2,379			
All	4,137				7,271	7,929	5,498	1,399	1,892	5,112	5,541			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	0				0	332	0			0	280			
Above Normal					293	558	671		0	40	323			
Below Normal					337	63	0		0	182	135			
Dry					239	249	150			59	75			
Critically Dry					169	19	102	156	218	53	82			
All	0				234	207	132	156	164	79	200			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	0.0%				0.0%	2.9%	0.0%			0.0%	5.8%			
Above Normal					3.3%	7.3%	14.5%		0.0%	0.6%	5.1%			
Below Normal					4.2%	0.7%	0.0%		0.0%	3.1%	1.9%			
Dry					4.4%	3.4%	3.0%			1.2%	1.6%			
Critically Dry					2.5%	0.3%	2.6%	11.2%	15.8%	1.4%	3.4%			
All	0.0%				3.2%	2.6%	2.4%	11.2%	8.6%	1.5%	3.6%			

Table H2-13
Frequency of Reverse Flow in Old and Middle Rivers between January 1 and February 15
for Alternatives B1, B2, D and No-Action Alternative

		Alternative B1	Alternative B2	Alternative D	No-Action Alternative
No of days with reverse flows above 4,000 cfs (< -4000 cfs)		2724	2724	2723	2723
Frequency at flow ranges (cfs):	0-2000	265	266	266	257
	2000-3000	292	293	291	290
	3000-4000	653	652	651	652
	4000-5000	1071	1069	1071	1071
	5000-6000	1000	1003	1001	1000
	>6000	537	535	538	548

Table H2-14

Entrainment at SWP and CVP Combined for Alternative A1, Delta Smelt

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet											31,757				31,757
Above Normal					1,139	805	199				26,438				28,580
Below Normal					1,119	1,815									2,934
Dry					972	1,610	504			49,382	13,283				65,751
Critically Dry						1,225	273			62,300	11,056				74,853
No-Action Alternative when Recirculation is Occurring															
Wet											31,304				31,304
Above Normal					1,050	698	80				25,387				27,215
Below Normal					1,057	1,787									2,844
Dry					907	1,523	456			48,102	13,141				64,129
Critically Dry						1,218	255			61,990	10,796				74,259
Difference															
Wet											453				453
Above Normal					89	107	119				1,051				1,365
Below Normal					62	28									90
Dry					65	87	48			1,280	142				1,622
Critically Dry						7	18			309	259				594
Percent Difference															
Wet											1				1
Above Normal					8	15	149				4				5
Below Normal					6	2									3
Dry					7	6	11			3	1				3
Critically Dry						1	7			0	2				1

Table H2-15

Entrainment at SWP and CVP Combined for Alternative A2, Delta Smelt

<i>WY Type</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr 1-15</i>	<i>Apr 16-30</i>	<i>May 1-15</i>	<i>May 16-31</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Annual Total</i>
Wet											31,756				31,756
Above Normal					1,139	778	199				26,438				28,553
Below Normal					1,365	1,825									3,190
Dry					946	1,610	504			49,382	13,283				65,725
Critically Dry					1,194	1,235	330			32,170	11,056				45,985
No-Action Alternative when Recirculation is Occurring															
Wet											31,304				31,304
Above Normal					1,050	692	80				25,387				27,209
Below Normal					1,312	1,787									3,099
Dry					889	1,523	456			48,102	13,141				64,110
Critically Dry					1,127	1,218	309			31,306	10,796				44,757
Difference															
Wet											451				451
Above Normal					89	86	119				1,051				1,344
Below Normal					53	38									91
Dry					58	87	48			1,280	142				1,615
Critically Dry					67	17	21			864	259				1,228
Percent Difference															
Wet											1				1
Above Normal					8	12	149				4				5
Below Normal					4	2									3
Dry					7	6	11			3	1				3
Critically Dry					6	1	7			3	2				3

Table H2-16

Entrainment at SWP and CVP Combined for Alternative B1, Delta Smelt

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						1,161					31,757				32,918
Above Normal					1,139	805	199			18,742	34,040				54,925
Below Normal					1,158	1,815				53,661	31,735				88,369
Dry					982	1,612	504			53,785	13,022				69,906
Critically Dry						1,225	273	211	16,116	62,300	11,056				91,180
No-Action Alternative when Recirculation is Occurring															
Wet						1,140					31,304				32,444
Above Normal					1,050	698	80			18,339	31,434				51,601
Below Normal					1,057	1,787				49,623	30,157				82,624
Dry					907	1,527	456			52,480	12,542				67,911
Critically Dry						1,218	255	177	12,602	61,990	10,796				87,039
Difference															
Wet						21					453				474
Above Normal					89	107	119			403	2,606				3,324
Below Normal					101	28				4,039	1,578				5,746
Dry					75	86	48			1,306	480				1,994
Critically Dry						7	18	33	3,514	309	259				4,141
Percent Difference															
Wet						2					1				1
Above Normal					8	15	149			2	8				6
Below Normal					10	2				8	5				7
Dry					8	6	11			2	4				3
Critically Dry						1	7	19	28	0	2				5

Table H2-17

Entrainment at SWP and CVP Combined for Alternative B2, Delta Smelt

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						1,161					26,152				27,313
Above Normal					1,139	778	199			18,742	34,436				55,294
Below Normal					1,396	1,825				53,660	31,735				88,616
Dry					954	1,612	504			53,785	13,022				69,878
Critically Dry					1,194	1,235	330	210	15,455	32,170	11,056				61,651
No-Action Alternative when Recirculation is Occurring															
Wet						1,140					24,698				25,838
Above Normal					1,050	692	80			18,339	31,924				52,085
Below Normal					1,312	1,787				49,623	30,157				82,878
Dry					889	1,527	456			52,480	12,542				67,893
Critically Dry					1,127	1,218	309	171	10,911	31,306	10,796				55,839
Difference															
Wet						21					1,454				1,475
Above Normal					89	86	119			403	2,512				3,209
Below Normal					84	38				4,038	1,578				5,737
Dry					65	86	48			1,306	480				1,985
Critically Dry					67	17	21	40	4,544	864	259				5,812
Percent Difference															
Wet						2					6				6
Above Normal					8	12	149			2	8				6
Below Normal					6	2				8	5				7
Dry					7	6	11			2	4				3
Critically Dry					6	1	7	23	42	3	2				10

Table H2-18

Entrainment at SWP and CVP Combined for Alternative C, Delta Smelt

<i>WY Type</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr 1-15</i>	<i>Apr 16-30</i>	<i>May 1-15</i>	<i>May 16-31</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Annual Total</i>
Wet					2,201	1,161	451			39,225	26,152				69,190
Above Normal					1,685	777	305		14,698	30,583	34,258				82,306
Below Normal					1,566	1,675	982		34,736	68,541	31,136				138,636
Dry					1,086	1,488	630			51,662	18,407				73,273
Critically Dry					1,194	1,235	330	216	16,059	32,214	9,711				60,960
No-Action Alternative when Recirculation is Occurring															
Wet					2,201	1,140	451			39,225	24,698				67,715
Above Normal					1,640	692	246		14,698	30,382	31,966				79,624
Below Normal					1,503	1,660	982		34,736	65,851	30,347				135,079
Dry					1,034	1,431	612			51,026	18,140				72,243
Critically Dry					1,127	1,218	309	194	13,043	31,306	9,581				56,780
Difference															
Wet					0	21	0			0	1,454				1,475
Above Normal					45	86	59		0	201	2,292				2,682
Below Normal					63	15	0		0	2,690	789				3,557
Dry					52	57	18			637	267				1,030
Critically Dry					67	17	21	22	3,016	908	130				4,181
Percent Difference															
Wet					0	2	0			0	6				2
Above Normal					3	12	24		0	1	7				3
Below Normal					4	1	0		0	4	3				3
Dry					5	4	3			1	1				1
Critically Dry					6	1	7	11	23	3	1				7

Table H2-19

Entrainment at SWP and CVP Combined for Alternative D, Delta Smelt

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet	0				2,201	1,161	451			39,225	25,957				68,995
Above Normal					1,685	777	305		14,698	30,583	34,258				82,306
Below Normal					1,566	1,601	982		34,736	68,539	31,136				138,559
Dry					1,086	1,421	630			53,120	18,407				74,664
Critically Dry					1,196	1,433	486	216	16,059	39,326	9,711				68,429
No-Action Alternative when Recirculation is Occurring															
Wet	0				2,201	1,140	451			39,225	24,698				67,715
Above Normal					1,640	692	246		14,698	30,382	31,966				79,624
Below Normal					1,503	1,588	982		34,736	65,851	30,347				135,007
Dry					1,034	1,372	612			52,611	18,140				73,769
Critically Dry					1,156	1,429	474	194	13,043	39,000	9,581				64,878
Difference															
Wet	0				0	21	0			0	1,259				1,280
Above Normal					45	86	59		0	201	2,292				2,682
Below Normal					63	13	0		0	2,688	789				3,552
Dry					52	49	18			509	267				895
Critically Dry					40	4	12	22	3,016	326	130				3,551
Percent Difference															
Wet					0	2	0			0	5				2
Above Normal					3	12	24		0	1	7				3
Below Normal					4	1	0		0	4	3				3
Dry					5	4	3			1	1				1
Critically Dry					3	0	3	11	23	1	1				5

Table H2-20

Entrainment at SWP and CVP Combined for Alternative A1, Striped bass

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet											1,589,422				1,589,422
Above Normal					25,777	10,347	1,013				1,512,413				1,549,550
Below Normal					25,424	30,370									55,794
Dry					21,727	34,100	3,932			153,918	1,327,036				1,540,713
Critically Dry						25,143	1,848			230,794	1,045,318				1,303,103
No-Action Alternative when Recirculation is Occurring															
Wet											1,525,238				1,525,238
Above Normal					23,535	8,672	406				1,363,420				1,396,033
Below Normal					24,006	29,326									53,332
Dry					20,255	30,851	3,425			145,397	1,289,306				1,489,233
Critically Dry						24,867	1,661			228,735	976,443				1,231,706
Difference															
Wet											64,184				64,184
Above Normal					2,242	1,675	607				148,993				153,517
Below Normal					1,419	1,043									2,462
Dry					1,473	3,249	507			8,521	37,730				51,480
Critically Dry						275	187			2,059	68,875				71,397
Percent Difference															
Wet											4				4
Above Normal					10	19	150				11				11
Below Normal					6	4									5
Dry					7	11	15			6	3				3
Critically Dry						1	11			1	7				6

Table H2-21

Entrainment at SWP and CVP Combined for Alternative A2, Striped bass

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet											1,589,251				1,589,251
Above Normal					25,778	10,055	1,013				1,512,413				1,549,260
Below Normal					30,286	30,783									61,069
Dry					20,895	34,100	3,932			153,918	1,327,036				1,539,880
Critically Dry					26,098	25,496	2,756			129,121	1,045,318				1,228,789
No-Action Alternative when Recirculation is Occurring															
Wet											1,525,238				1,525,238
Above Normal					23,535	8,709	406				1,363,420				1,396,069
Below Normal					29,084	29,359									58,443
Dry					19,577	30,851	3,425			145,397	1,289,306				1,488,556
Critically Dry					24,572	24,867	2,537			123,371	976,443				1,151,790
Difference															
Wet											64,013				64,013
Above Normal					2,244	1,347	607				148,993				153,191
Below Normal					1,202	1,423									2,626
Dry					1,318	3,249	507			8,521	37,730				51,324
Critically Dry					1,526	628	219			5,750	68,875				76,998
Percent Difference															
Wet											4				4
Above Normal					10	15	150				11				11
Below Normal					4	5									4
Dry					7	11	15			6	3				3
Critically Dry					6	3	9			5	7				7

Table H2-22

Entrainment at SWP and CVP Combined for Alternative B1, Striped bass

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						15,362					1,589,422				1,604,783
Above Normal					25,777	10,347	1,013			79,527	1,894,159				2,010,823
Below Normal					26,223	30,370				187,573	2,570,293				2,814,458
Dry					21,932	35,521	3,932			160,894	1,389,048				1,611,327
Critically Dry						25,143	1,848	1,492	58,473	230,794	1,045,318				1,363,067
No-Action Alternative when Recirculation is Occurring															
Wet						15,163					1,525,238				1,540,401
Above Normal					23,535	8,672	406			77,857	1,746,593				1,857,063
Below Normal					24,006	29,326				177,423	2,488,653				2,719,408
Dry					20,255	32,933	3,425			154,961	1,339,906				1,551,480
Critically Dry						24,867	1,661	1,365	49,643	228,735	976,443				1,282,714
Difference															
Wet						199					64,184				64,382
Above Normal					2,242	1,675	607			1,670	147,565				153,760
Below Normal					2,218	1,043				10,149	81,640				95,050
Dry					1,678	2,588	507			5,933	49,141				59,847
Critically Dry						275	187	128	8,829	2,059	68,875				80,354
Percent Difference															
Wet						1					4				4
Above Normal					10	19	150			2	8				8
Below Normal					9	4				6	3				3
Dry					8	8	15			4	4				4
Critically Dry						1	11	9	18	1	7				6

Table H2-23

Entrainment at SWP and CVP Combined for Alternative B2, Striped bass

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						15,362					1,468,582				1,483,944
Above Normal					25,778	10,055	1,013			79,527	1,904,213				2,020,586
Below Normal					30,921	30,783				187,570	2,570,293				2,819,566
Dry					21,047	35,520	3,932			160,894	1,389,048				1,610,441
Critically Dry					26,098	25,496	2,756	1,492	56,812	129,121	1,045,318				1,287,093
No-Action Alternative when Recirculation is Occurring															
Wet						15,163					1,383,261				1,398,424
Above Normal					23,535	8,709	406			77,857	1,790,472				1,900,977
Below Normal					29,084	29,359				177,423	2,488,653				2,724,520
Dry					19,577	32,933	3,425			154,961	1,339,906				1,550,803
Critically Dry					24,572	24,867	2,537	1,341	45,394	123,371	976,443				1,198,525
Difference															
Wet						199					85,321				85,520
Above Normal					2,244	1,347	607			1,670	113,741				119,608
Below Normal					1,837	1,423				10,146	81,640				95,046
Dry					1,470	2,587	507			5,933	49,141				59,638
Critically Dry					1,526	628	219	151	11,419	5,750	68,875				88,568
Percent Difference															
Wet						1					6				6
Above Normal					10	15	150			2	6				6
Below Normal					6	5				6	3				3
Dry					8	8	15			4	4				4
Critically Dry					6	3	9	11	25	5	7				7

Table H2-24

Entrainment at SWP and CVP Combined for Alternative C, Striped bass

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet					49,529	15,362	2,247			166,771	1,468,495				1,702,403
Above Normal					37,969	10,053	1,539		63,982	130,948	1,896,168				2,140,658
Below Normal					34,441	26,901	6,684		118,744	232,952	2,546,731				2,966,454
Dry					23,897	31,916	4,606			181,036	1,686,287				1,927,742
Critically Dry					26,098	25,496	2,756	1,514	58,331	129,416	874,737				1,118,348
No-Action Alternative when Recirculation is Occurring															
Wet					49,529	15,163	2,247			166,771	1,383,261				1,616,971
Above Normal					36,848	8,709	1,235		63,982	130,114	1,792,119				2,033,006
Below Normal					33,063	26,336	6,684		118,744	226,193	2,505,912				2,916,932
Dry					22,720	30,206	4,416			178,113	1,658,986				1,894,442
Critically Dry					24,572	24,867	2,537	1,431	50,751	123,371	840,299				1,067,829
Difference															
Wet					0	199	0			0	85,234				85,432
Above Normal					1,121	1,344	304		0	834	104,049				107,652
Below Normal					1,378	565	0		0	6,759	40,820				49,522
Dry					1,177	1,710	190			2,923	27,301				33,300
Critically Dry					1,526	628	219	83	7,580	6,046	34,438				50,519
Percent Difference															
Wet					0	1	0			0	6				5
Above Normal					3	15	25		0	1	6				5
Below Normal					4	2	0		0	3	2				2
Dry					5	6	4			2	2				2
Critically Dry					6	3	9	6	15	5	4				5

Table H2-25

Entrainment at SWP and CVP Combined for Alternative D, Striped bass

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet	12,150				49,529	15,362	2,247			166,771	1,459,932				1,705,990
Above Normal					37,969	10,053	1,539		63,982	130,948	1,896,168				2,140,657
Below Normal					34,441	27,195	6,684		118,744	232,947	2,546,731				2,966,742
Dry					23,896	28,950	4,606			189,795	1,686,287				1,933,534
Critically Dry					25,888	29,072	3,694	1,514	58,331	154,974	874,737				1,148,210
No-Action Alternative when Recirculation is Occurring															
Wet	12,150				49,529	15,163	2,247			166,771	1,383,261				1,629,121
Above Normal					36,848	8,709	1,235		63,982	130,114	1,792,119				2,033,006
Below Normal					33,063	26,723	6,684		118,744	226,193	2,505,912				2,917,319
Dry					22,720	27,484	4,416			187,456	1,658,986				1,901,063
Critically Dry					24,973	28,926	3,565	1,431	50,751	152,802	840,299				1,102,747
Difference															
Wet	0				0	199	0			0	76,671				76,870
Above Normal					1,121	1,344	304		0	833	104,049				107,651
Below Normal					1,378	471	0		0	6,755	40,820				49,423
Dry					1,176	1,465	190			2,338	27,301				32,471
Critically Dry					915	146	129	83	7,580	2,172	34,438				45,463
Percent Difference															
Wet	0				0	1	0			0	6				5
Above Normal					3	15	25		0	1	6				5
Below Normal					4	2	0		0	3	2				2
Dry					5	5	4			1	2				2
Critically Dry					4	1	4	6	15	1	4				4

Table H2-26

Entrainment at SWP and CVP Combined for Alternative A1, Longfin smelt

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet											39				39
Above Normal					16	11	772				31				830
Below Normal					12	259									271
Dry					14	336	6,950			38,649	619				46,567
Critically Dry						243	3,360			47,198	522				51,324
No-Action Alternative when Recirculation is Occurring															
Wet											38				38
Above Normal					13	11	686				31				742
Below Normal					11	247									258
Dry					14	297	6,098			37,840	615				44,862
Critically Dry						240	3,045			47,003	515				50,803
Difference															
Wet											0				0
Above Normal					2	0	85				1				89
Below Normal					1	12									13
Dry					1	39	853			809	4				1,705
Critically Dry						3	315			195	7				521
Percent Difference															
Wet											1				1
Above Normal					17	0	12				3				12
Below Normal					5	5									5
Dry					5	13	14			2	1				4
Critically Dry						1	10			0	1				1

Table H2-27

Entrainment at SWP and CVP Combined for Alternative A2, Longfin smelt

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet											39				39
Above Normal					16	10	772				31				830
Below Normal					23	264									287
Dry					17	336	6,950			38,648	619				46,570
Critically Dry					24	248	4,811			23,948	522				29,554
No-Action Alternative when Recirculation is Occurring															
Wet											38				38
Above Normal					13	10	686				31				741
Below Normal					22	247									269
Dry					16	297	6,098			37,840	615				44,865
Critically Dry					24	240	4,443			23,403	515				28,625
Difference															
Wet											0				0
Above Normal					2	0	85				1				89
Below Normal					1	17									18
Dry					1	39	853			809	4				1,704
Critically Dry					1	8	368			546	7				929
Percent Difference															
Wet											1				1
Above Normal					17	0	12				3				12
Below Normal					2	7									7
Dry					3	13	14			2	1				4
Critically Dry					3	3	8			2	1				3

Table H2-28

Entrainment at SWP and CVP Combined for Alternative B1, Longfin smelt

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						14					39				53
Above Normal					16	11	772			399	41				1,238
Below Normal					13	259				41,132	1,552				42,956
Dry					15	356	6,950			42,382	596				50,298
Critically Dry						243	3,360	2,688	12,262	47,198	522				66,274
No-Action Alternative when Recirculation is Occurring															
Wet						13					38				52
Above Normal					13	11	686			392	38				1,141
Below Normal					11	247				37,867	1,469				39,594
Dry					14	327	6,098			41,439	573				48,451
Critically Dry						240	3,045	2,418	9,421	47,003	515				62,643
Difference															
Wet						1					0				1
Above Normal					2	0	85			7	3				98
Below Normal					2	12				3,265	83				3,362
Dry					1	29	853			942	22				1,847
Critically Dry						3	315	270	2,840	195	7				3,631
Percent Difference															
Wet						5					1				2
Above Normal					17	0	12			2	8				9
Below Normal					18	5				9	6				8
Dry					7	9	14			2	4				4
Critically Dry						1	10	11	30	0	1				6

Table H2-29

Entrainment at SWP and CVP Combined for Alternative B2, Longfin smelt

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						14					31				45
Above Normal					16	10	772			399	41				1,238
Below Normal					24	264				41,131	1,552				42,971
Dry					17	356	6,950			42,382	596				50,301
Critically Dry					24	248	4,811	2,688	11,728	23,948	522				43,969
No-Action Alternative when Recirculation is Occurring															
Wet						13					30				43
Above Normal					13	10	686			392	38				1,140
Below Normal					22	247				37,867	1,469				39,605
Dry					16	327	6,098			41,439	573				48,454
Critically Dry					24	240	4,443	2,367	8,054	23,403	515				39,046
Difference															
Wet						1					2				2
Above Normal					2	0	85			7	3				98
Below Normal					2	17				3,264	83				3,366
Dry					1	29	853			942	22				1,847
Critically Dry					1	8	368	321	3,673	546	7				4,923
Percent Difference															
Wet						5					6				6
Above Normal					17	0	12			2	8				9
Below Normal					7	7				9	6				8
Dry					5	9	14			2	4				4
Critically Dry					3	3	8	14	46	2	1				13

Table H2-30

Entrainment at SWP and CVP Combined for Alternative C, Longfin smelt

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet					29	14	12,020			850	31				12,944
Above Normal					23	10	4,766		390	707	41				5,937
Below Normal					29	223	12,142		26,739	52,820	1,520				93,473
Dry					20	316	8,247			39,580	876				49,040
Critically Dry					24	248	4,811	2,735	12,216	23,976	464				44,475
No-Action Alternative when Recirculation is Occurring															
Wet					29	13	12,020			850	30				12,942
Above Normal					21	10	4,723		390	704	38				5,887
Below Normal					28	216	12,142		26,739	50,645	1,478				91,249
Dry					20	297	7,927			39,122	864				48,230
Critically Dry					24	240	4,443	2,558	9,778	23,403	461				40,906
Difference															
Wet					0	1	0			0	2				2
Above Normal					1	0	43		0	3	3				50
Below Normal					1	7	0		0	2,174	41				2,224
Dry					1	19	320			458	12				810
Critically Dry					1	8	368	177	2,438	574	3				3,568
Percent Difference															
Wet					0	5	0			0	6				0
Above Normal					5	0	1		0	0	7				1
Below Normal					4	3	0		0	4	3				2
Dry					3	7	4			1	1				2
Critically Dry					3	3	8	7	25	2	1				9

Table H2-31

Entrainment at SWP and CVP Combined for Alternative D, Longfin smelt

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet	0				29	14	12,020			850	31				12,944
Above Normal					23	10	4,766		390	707	41				5,937
Below Normal					29	235	12,142		26,739	52,818	1,520				93,483
Dry					20	279	8,247			40,542	876				49,964
Critically Dry					27	280	6,563	2,735	12,216	29,398	464				51,683
No-Action Alternative when Recirculation is Occurring															
Wet	0				29	13	12,020			850	30				12,942
Above Normal					21	10	4,723		390	704	38				5,887
Below Normal					28	229	12,142		26,739	50,645	1,478				91,262
Dry					20	263	7,927			40,175	864				49,248
Critically Dry					27	278	6,346	2,558	9,778	29,192	461				48,640
Difference															
Wet	0				0	1	0			0	1				2
Above Normal					1	0	43		0	3	3				50
Below Normal					1	6	0		0	2,173	41				2,221
Dry					1	17	320			367	12				716
Critically Dry					0	2	217	177	2,438	206	3				3,043
Percent Difference															
Wet					0	5	0			0	5				0
Above Normal					5	0	1		0	0	7				1
Below Normal					4	2	0		0	4	3				2
Dry					3	6	4			1	1				1
Critically Dry					1	1	3	7	25	1	1				6

Table H2-32

Entrainment at SWP and CVP Combined for Alternative A1, Threadfin shad

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet											159,822				159,822
Above Normal					146,569	12,367	3,942				141,520				304,398
Below Normal					178,276	29,114									207,390
Dry					131,077	30,728	8,208			2,251	225,005				397,268
Critically Dry						22,834	3,743			2,690	175,479				204,746
No-Action Alternative when Recirculation is Occurring															
Wet											155,686				155,686
Above Normal					117,384	9,907	1,627				131,917				260,835
Below Normal					168,011	28,271									196,282
Dry					120,419	28,105	7,097			2,211	217,909				375,741
Critically Dry						22,611	3,333			2,680	162,526				191,150
Difference															
Wet											4,137				4,137
Above Normal					29,185	2,460	2,315				9,603				43,562
Below Normal					10,266	842									11,108
Dry					10,658	2,622	1,111			40	7,096				21,527
Critically Dry						222	411			10	12,953				13,596
Percent Difference															
Wet											3				3
Above Normal					25	25	142				7				17
Below Normal					6	3									6
Dry					9	9	16			2	3				6
Critically Dry						1	12			0	8				7

Table H2-33

Entrainment at SWP and CVP Combined for Alternative A2, Threadfin shad

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet											159,811				159,811
Above Normal					146,587	12,103	3,942				141,520				304,152
Below Normal					169,262	29,442									198,703
Dry					110,043	30,728	8,208			2,251	225,005				376,235
Critically Dry					120,944	23,118	5,828			1,348	175,479				326,718
No-Action Alternative when Recirculation is Occurring															
Wet											155,686				155,686
Above Normal					117,384	10,125	1,627				131,917				261,053
Below Normal					160,561	28,293									188,853
Dry					100,508	28,105	7,097			2,211	217,909				355,830
Critically Dry					109,904	22,611	5,348			1,321	162,526				301,710
Difference															
Wet											4,126				4,126
Above Normal					29,203	1,978	2,315				9,603				43,099
Below Normal					8,701	1,149									9,850
Dry					9,535	2,622	1,111			40	7,096				20,404
Critically Dry					11,041	507	480			27	12,953				25,008
Percent Difference															
Wet											3				3
Above Normal					25	20	142				7				17
Below Normal					5	4									5
Dry					9	9	16			2	3				6
Critically Dry					10	2	9			2	8				8

Table H2-34

Entrainment at SWP and CVP Combined for Alternative B1, Threadfin shad

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						19,023					159,822				178,845
Above Normal					146,569	12,367	3,942			1,823	179,836				344,537
Below Normal					178,601	29,114				2,363	417,982				628,059
Dry					131,160	31,714	8,208			2,479	238,133				411,694
Critically Dry						22,834	3,743	3,053	701	2,690	175,479				208,500
No-Action Alternative when Recirculation is Occurring															
Wet						18,895					155,686				174,581
Above Normal					117,384	9,907	1,627			1,803	165,954				296,674
Below Normal					168,011	28,271				2,169	406,396				604,846
Dry					120,419	29,549	7,097			2,428	229,766				389,259
Critically Dry						22,611	3,333	2,842	532	2,680	162,526				194,524
Difference															
Wet						128					4,137				4,265
Above Normal					29,185	2,460	2,315			20	13,883				47,863
Below Normal					10,590	842				194	11,586				23,212
Dry					10,741	2,165	1,111			52	8,367				22,435
Critically Dry						222	411	211	169	10	12,953				13,976
Percent Difference															
Wet						1					3				2
Above Normal					25	25	142			1	8				16
Below Normal					6	3				9	3				4
Dry					9	7	16			2	4				6
Critically Dry						1	12	7	32	0	8				7

Table H2-35

Entrainment at SWP and CVP Combined for Alternative B2, Threadfin shad

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						19,023					138,762				157,784
Above Normal					146,587	12,103	3,942			1,823	181,393				345,848
Below Normal					169,510	29,442				2,363	417,982				619,296
Dry					110,105	31,713	8,208			2,479	238,133				390,639
Critically Dry					120,944	23,118	5,828	3,053	669	1,348	175,479				330,440
No-Action Alternative when Recirculation is Occurring															
Wet						18,895					130,882				149,777
Above Normal					117,384	10,125	1,627			1,803	169,286				300,225
Below Normal					160,561	28,293				2,169	406,396				597,417
Dry					100,508	29,549	7,097			2,428	229,766				369,348
Critically Dry					109,904	22,611	5,348	2,802	451	1,321	162,526				304,963
Difference															
Wet						128					7,880				8,008
Above Normal					29,203	1,978	2,315			20	12,107				45,623
Below Normal					8,949	1,149				194	11,586				21,878
Dry					9,597	2,164	1,111			52	8,367				21,291
Critically Dry					11,041	507	480	251	218	27	12,953				25,477
Percent Difference															
Wet						1					6				5
Above Normal					25	20	142			1	7				15
Below Normal					6	4				9	3				4
Dry					10	7	16			2	4				6
Critically Dry					10	2	9	9	48	2	8				8

Table H2-36

Entrainment at SWP and CVP Combined for Alternative C, Threadfin shad

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet					261,902	19,023	10,057			3,972	138,756				433,710
Above Normal					204,559	12,100	6,445		2,200	3,537	180,534				409,375
Below Normal					173,812	26,099	13,554		1,540	3,045	415,063				633,114
Dry					120,880	28,674	9,488			2,273	281,384				442,700
Critically Dry					120,944	23,118	5,828	3,090	698	1,349	145,481				300,509
No-Action Alternative when Recirculation is Occurring															
Wet					261,902	18,895	10,057			3,972	130,882				425,708
Above Normal					189,967	10,125	5,288		2,200	3,527	169,477				380,584
Below Normal					167,100	25,642	13,554		1,540	2,916	409,270				620,023
Dry					113,188	27,244	9,071			2,248	276,736				428,486
Critically Dry					109,904	22,611	5,348	2,952	553	1,321	139,004				281,694
Difference															
Wet					0	128	0			0	7,874				8,002
Above Normal					14,592	1,974	1,158		0	10	11,056				28,791
Below Normal					6,712	456	0		0	129	5,793				13,091
Dry					7,693	1,430	417			25	4,648				14,213
Critically Dry					11,041	507	480	138	145	28	6,477				18,815
Percent Difference															
Wet					0	1	0			0	6				2
Above Normal					8	19	22		0	0	7				8
Below Normal					4	2	0		0	4	1				2
Dry					7	5	5			1	2				3
Critically Dry					10	2	9	5	26	2	5				7

Table H2-37

Entrainment at SWP and CVP Combined for Alternative D, Threadfin shad

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet	236,745				261,902	19,023	10,057			3,972	137,828				669,527
Above Normal					204,559	12,099	6,445		2,200	3,537	180,534				409,375
Below Normal					173,812	25,958	13,554		1,540	3,045	415,063				632,973
Dry					120,876	26,337	9,488			2,322	281,384				440,407
Critically Dry					103,983	26,475	7,671	3,090	698	1,660	145,481				289,058
No-Action Alternative when Recirculation is Occurring															
Wet	236,745				261,902	18,895	10,057			3,972	130,882				662,453
Above Normal					189,967	10,125	5,288		2,200	3,527	169,477				380,584
Below Normal					167,100	25,578	13,554		1,540	2,916	409,270				619,959
Dry					113,188	25,110	9,071			2,302	276,736				426,407
Critically Dry					97,360	26,357	7,389	2,952	553	1,650	139,004				275,265
Difference															
Wet	0				0	128	0			0	6,947				7,075
Above Normal					14,592	1,974	1,158		0	10	11,056				28,791
Below Normal					6,712	380	0		0	129	5,793				13,014
Dry					7,688	1,226	417			20	4,648				14,000
Critically Dry					6,623	118	283	138	145	10	6,477				13,793
Percent Difference															
Wet	0				0	1	0			0	5				1
Above Normal					8	19	22		0	0	7				8
Below Normal					4	1	0		0	4	1				2
Dry					7	5	5			1	2				3
Critically Dry					7	0	4	5	26	1	5				5

Table H2-38 Entrainment at SWP and CVP Combined for Alternative A1, Fall-Run Chinook															
WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet											12,738				12,738
Above Normal					10,596	3,342	1,525				11,502				26,965
Below Normal					54	2,870									2,925
Dry					49	2,325	7,252			31,835	341				41,802
Critically Dry						1,796	4,752			34,620	270				41,437
No-Action Alternative when Recirculation is Occurring															
Wet											12,359				12,359
Above Normal					9,305	3,064	759				10,623				23,752
Below Normal					51	2,844									2,895
Dry					46	2,244	6,939			31,696	332				41,256
Critically Dry						1,789	4,636			34,586	254				41,264
Difference															
Wet											379				379
Above Normal					1,292	278	766				879				3,214
Below Normal					3	26									29
Dry					3	82	313			139	9				547
Critically Dry						7	116			34	16				173
Percent Difference															
Wet											3				3
Above Normal					14	9	101				8				14
Below Normal					6	1									1
Dry					7	4	5			0	3				1
Critically Dry						0	2			0	6				0

Table H2-39

Entrainment at SWP and CVP Combined for Alternative A2, Fall-Run Chinook

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet											12,737				12,737
Above Normal					10,597	3,199	1,525				11,502				26,823
Below Normal					70	2,878									2,948
Dry					49	2,325	7,252			31,835	341				41,802
Critically Dry					63	1,804	4,214			16,372	270				22,723
No-Action Alternative when Recirculation is Occurring															
Wet											12,359				12,359
Above Normal					9,305	2,976	759				10,623				23,663
Below Normal					67	2,842									2,910
Dry					46	2,244	6,939			31,696	332				41,256
Critically Dry					60	1,789	4,079			16,277	254				22,458
Difference															
Wet											377				377
Above Normal					1,293	223	766				879				3,160
Below Normal					3	36									38
Dry					3	82	313			139	9				546
Critically Dry					3	16	135			94	16				265
Percent Difference															
Wet											3				3
Above Normal					14	8	101				8				13
Below Normal					4	1									1
Dry					6	4	5			0	3				1
Critically Dry					5	1	3			1	6				1

Table H2-40

Entrainment at SWP and CVP Combined for Alternative B1, Fall-Run Chinook

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						4,581					12,738				17,319
Above Normal					10,596	3,342	1,525			24,426	14,557				54,446
Below Normal					57	2,870				31,518	677				35,122
Dry					50	2,287	7,252			35,695	354				45,638
Critically Dry						1,796	4,752	3,475	9,142	34,620	270				54,054
No-Action Alternative when Recirculation is Occurring															
Wet						4,454					12,359				16,814
Above Normal					9,305	3,064	759			23,877	13,430				50,436
Below Normal					51	2,844				28,545	654				32,094
Dry					46	2,188	6,939			35,135	342				44,649
Critically Dry						1,789	4,636	2,597	6,555	34,586	254				50,417
Difference															
Wet						127					379				506
Above Normal					1,292	278	766			549	1,127				4,010
Below Normal					5	26				2,973	23				3,028
Dry					4	100	313			560	13				989
Critically Dry						7	116	878	2,586	34	16				3,637
Percent Difference															
Wet						3					3				3
Above Normal					14	9	101			2	8				8
Below Normal					10	1				10	4				9
Dry					8	5	5			2	4				2
Critically Dry						0	2	34	39	0	6				7

Table H2-41

Entrainment at SWP and CVP Combined for Alternative B2, Fall-Run Chinook

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						4,581					11,247				15,828
Above Normal					10,597	3,199	1,525			24,425	14,670				54,416
Below Normal					72	2,878				31,517	677				35,144
Dry					49	2,287	7,252			35,695	354				45,638
Critically Dry					63	1,804	4,214	3,475	8,655	16,372	270				34,853
No-Action Alternative when Recirculation is Occurring															
Wet						4,454					10,604				15,058
Above Normal					9,305	2,976	759			23,877	13,719				50,635
Below Normal					67	2,842				28,545	654				32,108
Dry					46	2,188	6,939			35,135	342				44,649
Critically Dry					60	1,789	4,079	2,432	5,311	16,277	254				30,201
Difference															
Wet						127					643				770
Above Normal					1,293	223	766			548	951				3,781
Below Normal					4	36				2,972	23				3,036
Dry					3	100	313			560	13				989
Critically Dry					3	16	135	1,043	3,345	94	16				4,652
Percent Difference															
Wet						3					6				5
Above Normal					14	8	101			2	7				7
Below Normal					7	1				10	4				9
Dry					7	5	5			2	4				2
Critically Dry					5	1	3	43	63	1	6				15

Table H2-42

Entrainment at SWP and CVP Combined for Alternative C, Fall-Run Chinook

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet					19,916	4,581	7,443			50,925	11,247				94,112
Above Normal					15,353	3,199	3,732		18,195	39,156	14,602				94,237
Below Normal					82	2,684	17,017		20,807	41,261	670				82,521
Dry					57	2,137	9,996			30,276	437				42,903
Critically Dry					63	1,804	4,214	3,628	9,100	16,376	227				35,413
No-Action Alternative when Recirculation is Occurring															
Wet					19,916	4,454	7,443			50,925	10,604				93,343
Above Normal					14,707	2,976	3,349		18,195	38,882	13,733				91,843
Below Normal					78	2,670	17,017		20,807	39,281	658				80,512
Dry					54	2,071	9,879			30,008	430				42,442
Critically Dry					60	1,789	4,079	3,054	6,880	16,277	219				32,357
Difference															
Wet					0	127	0			0	642				769
Above Normal					646	223	383		0	274	869				2,394
Below Normal					3	14	0		0	1,980	12				2,009
Dry					3	66	117			268	7				461
Critically Dry					3	16	135	574	2,220	99	8				3,055
Percent Difference															
Wet					0	3	0			0	6				1
Above Normal					4	7	11		0	1	6				3
Below Normal					4	1	0		0	5	2				2
Dry					5	3	1			1	2				1
Critically Dry					5	1	3	19	32	1	4				9

Table H2-43

Entrainment at SWP and CVP Combined for Alternative D, Fall-Run Chinook

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet	20				19,916	4,581	7,443			50,925	11,174				94,059
Above Normal					15,353	3,199	3,732		18,195	39,156	14,602				94,237
Below Normal					82	2,519	17,017		20,807	41,260	670				82,355
Dry					57	2,088	9,996			30,577	437				43,156
Critically Dry					64	2,109	7,290	3,628	9,100	20,448	227				42,867
No-Action Alternative when Recirculation is Occurring															
Wet	20				19,916	4,454	7,443			50,925	10,604				93,362
Above Normal					14,707	2,976	3,349		18,195	38,882	13,733				91,843
Below Normal					78	2,507	17,017		20,807	39,281	658				80,349
Dry					54	2,032	9,879			30,363	430				42,757
Critically Dry					63	2,106	7,210	3,054	6,880	20,413	219				39,944
Difference															
Wet	0				0	127	0			0	570				697
Above Normal					646	223	383		0	274	869				2,394
Below Normal					3	12	0		0	1,979	12				2,005
Dry					3	57	117			215	7				398
Critically Dry					2	4	80	574	2,220	36	8				2,923
Percent Difference															
Wet	0				0	3	0			0	5				1
Above Normal					4	7	11		0	1	6				3
Below Normal					4	0	0		0	5	2				2
Dry					5	3	1			1	2				1
Critically Dry					3	0	1	19	32	0	4				7

Table H2-44

Entrainment at SWP and CVP Combined for Alternative A1, Winter-Run Chinook

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet											0				0
Above Normal					1,063	1,731	41				1				2,835
Below Normal					1,142	9,092									10,234
Dry					1,548	6,752	210			23	0				8,533
Critically Dry						5,290	119			24	0				5,434
No-Action Alternative when Recirculation is Occurring															
Wet											0				0
Above Normal					1,045	1,697	24				0				2,766
Below Normal					1,087	9,058									10,145
Dry					1,491	6,647	192			23	0				8,353
Critically Dry						5,281	113			24	0				5,418
Difference															
Wet											0				0
Above Normal					18	34	18				0				70
Below Normal					55	34									89
Dry					57	105	17			0	0				180
Critically Dry						9	6			0	0				15
Percent Difference															
Wet											27				27
Above Normal					2	2	74				40				3
Below Normal					5	0									1
Dry					4	2	9			0					2
Critically Dry						0	6			0					0

Table H2-45

Entrainment at SWP and CVP Combined for Alternative A2, Winter-Run Chinook

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet											0				0
Above Normal					1,063	1,636	41				1				2,741
Below Normal					2,520	9,096									11,616
Dry					1,920	6,752	210			23	0				8,904
Critically Dry					2,841	5,302	134			11	0				8,288
No-Action Alternative when Recirculation is Occurring															
Wet											0				0
Above Normal					1,045	1,609	24				0				2,678
Below Normal					2,473	9,050									11,523
Dry					1,868	6,647	192			23	0				8,730
Critically Dry					2,782	5,281	126			11	0				8,200
Difference															
Wet											0				0
Above Normal					18	27	18				0				63
Below Normal					47	46									93
Dry					51	105	17			0	0				174
Critically Dry					59	20	8			0	0				87
Percent Difference															
Wet											27				27
Above Normal					2	2	74				40				2
Below Normal					2	1									1
Dry					3	2	9			0					2
Critically Dry					2	0	6			0					1

Table H2-46

Entrainment at SWP and CVP Combined for Alternative B1, Winter-Run Chinook

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						2,213					0				2,213
Above Normal					1,063	1,731	41			4	1				2,840
Below Normal					1,320	9,092				22	0				10,435
Dry					1,594	6,513	210			26	0				8,343
Critically Dry						5,290	119	91	6	24	0				5,531
No-Action Alternative when Recirculation is Occurring															
Wet						2,121					0				2,121
Above Normal					1,045	1,697	24			4	1				2,770
Below Normal					1,087	9,058				20	0				10,166
Dry					1,491	6,296	192			26	0				8,005
Critically Dry						5,281	113	74	5	24	0				5,497
Difference															
Wet						92					0				92
Above Normal					18	34	18			0	0				70
Below Normal					233	34				2	0				269
Dry					103	217	17			0	0				338
Critically Dry						9	6	17	2	0	0				34
Percent Difference															
Wet						4					27				4
Above Normal					2	2	74			2	9				3
Below Normal					21	0				11					3
Dry					7	3	9			1					4
Critically Dry						0	6	23	43	0					1

Table H2-47

Entrainment at SWP and CVP Combined for Alternative B2, Winter-Run Chinook

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						2,213					0				2,214
Above Normal					1,063	1,636	41			4	1				2,745
Below Normal					2,661	9,096				22	0				11,780
Dry					1,953	6,513	210			26	0				8,703
Critically Dry					2,841	5,302	134	91	6	11	0				8,384
No-Action Alternative when Recirculation is Occurring															
Wet						2,121					0				2,121
Above Normal					1,045	1,609	24			4	1				2,682
Below Normal					2,473	9,050				20	0				11,543
Dry					1,868	6,296	192			26	0				8,382
Critically Dry					2,782	5,281	126	71	4	11	0				8,275
Difference															
Wet						92					0				92
Above Normal					18	27	18			0	0				63
Below Normal					188	46				2	0				237
Dry					85	217	17			0	0				320
Critically Dry					59	20	8	20	2	0	0				109
Percent Difference															
Wet						4					7				4
Above Normal					2	2	74			2	1				2
Below Normal					8	1				11					2
Dry					5	3	9			1					4
Critically Dry					2	0	6	28	69	0					1

Table H2-48

Entrainment at SWP and CVP Combined for Alternative C, Winter-Run Chinook

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet					2,132	2,213	288			9	0				4,642
Above Normal					1,617	1,636	131		4	7	1				3,396
Below Normal					3,368	8,600	428		15	29	0				12,440
Dry					2,329	6,168	269			21	0				8,787
Critically Dry					2,841	5,302	134	94	6	11	0				8,388
No-Action Alternative when Recirculation is Occurring															
Wet					2,132	2,121	288			9	0				4,550
Above Normal					1,608	1,609	122		4	7	1				3,351
Below Normal					3,226	8,582	428		15	28	0				12,279
Dry					2,261	6,024	262			21	0				8,568
Critically Dry					2,782	5,281	126	83	5	11	0				8,288
Difference															
Wet					0	92	0			0	0				92
Above Normal					9	27	9		0	0	0				45
Below Normal					141	18	0		0	1	0				161
Dry					68	144	7			0	0				219
Critically Dry					59	20	8	11	2	0	0				100
Percent Difference															
Wet					0	4	0			0	7				2
Above Normal					1	2	7		0	1	1				1
Below Normal					4	0	0		0	5					1
Dry					3	2	3			1					3
Critically Dry					2	0	6	13	35	0					1

Table H2-49

Entrainment at SWP and CVP Combined for Alternative D, Winter-Run Chinook

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet	0				2,132	2,213	288			9	0				4,642
Above Normal					1,617	1,636	131		4	7	1				3,396
Below Normal					3,368	7,945	428		15	29	0				11,785
Dry					2,329	6,172	269			22	0				8,791
Critically Dry					3,248	6,245	204	94	6	14	0				9,811
No-Action Alternative when Recirculation is Occurring															
Wet	0				2,132	2,121	288			9	0				4,550
Above Normal					1,608	1,609	122		4	7	1				3,351
Below Normal					3,226	7,929	428		15	28	0				11,627
Dry					2,261	6,048	262			21	0				8,593
Critically Dry					3,213	6,240	200	83	5	14	0				9,754
Difference															
Wet	0				0	92	0			0	0				92
Above Normal					9	27	9		0	0	0				45
Below Normal					141	15	0		0	1	0				158
Dry					68	124	7			0	0				198
Critically Dry					36	5	4	11	2	0	0				57
Percent Difference															
Wet					0	4	0			0	7				2
Above Normal					1	2	7		0	1	1				1
Below Normal					4	0	0		0	5					1
Dry					3	2	3			1					2
Critically Dry					1	0	2	13	35	0					1

Table H2-50

Entrainment at SWP and CVP Combined for Alternative A1, Spring-Run Chinook

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet											2,047				2,047
Above Normal					75	7,147	5,852				1,743				14,818
Below Normal					3	3,702									3,705
Dry					2	2,918	7,490			6,536	5				16,951
Critically Dry						2,263	4,716			7,080	3				14,063
No-Action Alternative when Recirculation is Occurring															
Wet											2,009				2,009
Above Normal					72	6,645	3,122				1,656				11,494
Below Normal					3	3,674									3,677
Dry					2	2,833	7,078			6,510	4				16,427
Critically Dry						2,256	4,564			7,074	3				13,897
Difference															
Wet											38				38
Above Normal					3	502	2,731				88				3,324
Below Normal					0	27									28
Dry					0	85	412			25	0				523
Critically Dry						7	152			6	0				166
Percent Difference															
Wet											2				2
Above Normal					4	8	87				5				29
Below Normal					6	1									1
Dry					9	3	6			0	5				3
Critically Dry						0	3			0	13				1

Table H2-51

Entrainment at SWP and CVP Combined for Alternative A2, Spring-Run Chinook

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet											2,047				2,047
Above Normal					75	6,824	5,852				1,743				14,495
Below Normal					3	3,709									3,712
Dry					2	2,918	7,490			6,536	5				16,950
Critically Dry					2	2,272	4,477			3,340	3				10,094
No-Action Alternative when Recirculation is Occurring															
Wet											2,009				2,009
Above Normal					72	6,420	3,122				1,656				11,269
Below Normal					3	3,672									3,674
Dry					2	2,833	7,078			6,510	4				16,427
Critically Dry					2	2,256	4,299			3,323	3				9,882
Difference															
Wet											38				38
Above Normal					3	404	2,731				88				3,226
Below Normal					0	37									38
Dry					0	85	412			25	0				523
Critically Dry					0	16	178			17	0				212
Percent Difference															
Wet											2				2
Above Normal					4	6	87				5				29
Below Normal					6	1									1
Dry					10	3	6			0	5				3
Critically Dry					10	1	4			1	13				2

Table H2-52

Entrainment at SWP and CVP Combined for Alternative B1, Spring-Run Chinook

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						9,664					2,047				11,711
Above Normal					75	7,147	5,852			9,309	2,234				24,617
Below Normal					3	3,702				6,456	7				10,167
Dry					2	2,853	7,490			7,333	5				17,684
Critically Dry						2,263	4,716	3,486	1,871	7,080	3				19,420
No-Action Alternative when Recirculation is Occurring															
Wet						9,370					2,009				11,379
Above Normal					72	6,645	3,122			9,100	2,062				21,001
Below Normal					3	3,674				5,843	7				9,527
Dry					2	2,737	7,078			7,220	5				17,042
Critically Dry						2,256	4,564	2,671	1,338	7,074	3				17,906
Difference															
Wet						294					38				332
Above Normal					3	502	2,731			209	172				3,617
Below Normal					0	27				612	0				640
Dry					0	116	412			114	0				642
Critically Dry						7	152	815	533	6	0				1,514
Percent Difference															
Wet						3					2				3
Above Normal					4	8	87			2	8				17
Below Normal					6	1				10	0				7
Dry					9	4	6			2	4				4
Critically Dry						0	3	31	40	0	13				8

Table H2-53

Entrainment at SWP and CVP Combined for Alternative B2, Spring-Run Chinook

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						9,664					1,719				11,383
Above Normal					75	6,824	5,852			9,308	2,257				24,317
Below Normal					3	3,709				6,455	7				10,174
Dry					2	2,853	7,491			7,333	5				17,684
Critically Dry					2	2,272	4,477	3,486	1,771	3,340	3				15,350
No-Action Alternative when Recirculation is Occurring															
Wet						9,370					1,623				10,992
Above Normal					72	6,420	3,122			9,100	2,098				20,811
Below Normal					3	3,672				5,843	7				9,524
Dry					2	2,737	7,078			7,220	5				17,042
Critically Dry					2	2,256	4,299	2,518	1,082	3,323	3				13,482
Difference															
Wet						294					96				390
Above Normal					3	404	2,731			209	159				3,506
Below Normal					0	37				612	0				649
Dry					0	116	412			114	0				642
Critically Dry					0	16	178	968	689	17	0				1,869
Percent Difference															
Wet						3					6				4
Above Normal					4	6	87			2	8				17
Below Normal					6	1				10	0				7
Dry					10	4	6			2	4				4
Critically Dry					10	1	4	38	64	1	13				14

Table H2-54

Entrainment at SWP and CVP Combined for Alternative C, Spring-Run Chinook

<i>WY Type</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr 1-15</i>	<i>Apr 16-30</i>	<i>May 1-15</i>	<i>May 16-31</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Annual Total</i>
Wet					149	9,664	34,234			19,409	1,719				65,174
Above Normal					113	6,823	16,299		6,942	14,928	2,246				47,352
Below Normal					3	3,475	16,907		4,264	8,457	7				33,112
Dry					2	2,677	10,111			6,201	5				18,995
Critically Dry					2	2,272	4,477	3,628	1,862	3,341	3				15,584
No-Action Alternative when Recirculation is Occurring															
Wet					149	9,370	34,234			19,409	1,623				64,784
Above Normal					112	6,420	14,934		6,942	14,824	2,100				45,332
Below Normal					3	3,460	16,907		4,264	8,049	7				32,689
Dry					2	2,600	9,956			6,146	5				18,709
Critically Dry					2	2,256	4,299	3,095	1,405	3,323	2				14,382
Difference															
Wet					0	294	0			0	96				390
Above Normal					2	403	1,365		0	104	145				2,020
Below Normal					0	15	0		0	408	0				423
Dry					0	77	155			54	0				286
Critically Dry					0	16	178	533	457	18	0				1,203
Percent Difference															
Wet					0	3	0			0	6				1
Above Normal					1	6	9		0	1	7				4
Below Normal					4	0	0		0	5	0				1
Dry					7	3	2			1	2				2
Critically Dry					10	1	4	17	33	1	8				8

Table H2-55

Entrainment at SWP and CVP Combined for Alternative D, Spring-Run Chinook

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet	3				149	9,664	34,234			19,409	1,707				65,164
Above Normal					113	6,823	16,299		6,942	14,928	2,246				47,352
Below Normal					3	3,244	16,907		4,264	8,456	7				32,881
Dry					2	2,635	10,111			6,259	5				19,012
Critically Dry					2	2,663	7,461	3,628	1,862	4,174	3				19,792
No-Action Alternative when Recirculation is Occurring															
Wet	3				149	9,370	34,234			19,409	1,623				64,786
Above Normal					112	6,420	14,934		6,942	14,824	2,100				45,332
Below Normal					3	3,232	16,907		4,264	8,049	7				32,461
Dry					2	2,569	9,956			6,216	5				18,748
Critically Dry					2	2,659	7,356	3,095	1,405	4,167	2				18,687
Difference															
Wet	0				0	294	0			0	84				378
Above Normal					2	403	1,365		0	104	145				2,020
Below Normal					0	12	0		0	407	0				420
Dry					0	66	155			43	0				264
Critically Dry					0	4	105	533	457	6	0				1,105
Percent Difference															
Wet	0				0	3	0			0	5				1
Above Normal					1	6	9		0	1	7				4
Below Normal					4	0	0		0	5	0				1
Dry					7	3	2			1	2				1
Critically Dry					7	0	1	17	33	0	8				6

Table H2-56

Entrainment at SWP and CVP Combined for Alternative A1, Steelhead

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet											237				237
Above Normal					8,378	5,351	659				220				14,607
Below Normal					6,749	14,948									21,696
Dry					6,244	13,286	983			499	82				21,093
Critically Dry						10,112	507			583	63				11,264
No-Action Alternative when Recirculation is Occurring															
Wet											229				229
Above Normal					7,743	4,786	289				200				13,019
Below Normal					6,379	14,716									21,095
Dry					5,861	12,564	877			492	79				19,873
Critically Dry						10,050	468			581	58				11,157
Difference															
Wet											8				8
Above Normal					635	564	370				19				1,588
Below Normal					369	232									601
Dry					383	721	106			7	3				1,221
Critically Dry						61	39			2	5				107
Percent Difference															
Wet											4				4
Above Normal					8	12	128				10				12
Below Normal					6	2									3
Dry					7	6	12			1	4				6
Critically Dry						1	8			0	9				1

Table H2-57

Entrainment at SWP and CVP Combined for Alternative A2, Steelhead

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet											237				237
Above Normal					8,378	5,144	659				220				14,401
Below Normal					9,005	15,030									24,035
Dry					6,364	13,286	983			499	82				21,213
Critically Dry					8,318	10,190	660			288	63				19,519
No-Action Alternative when Recirculation is Occurring															
Wet											229				229
Above Normal					7,743	4,690	289				200				12,923
Below Normal					8,692	14,714									23,406
Dry					6,021	12,564	877			492	79				20,033
Critically Dry					7,921	10,050	614			283	58				18,926
Difference															
Wet											8				8
Above Normal					635	454	370				19				1,478
Below Normal					313	316									629
Dry					343	721	106			7	3				1,180
Critically Dry					397	140	46			5	5				593
Percent Difference															
Wet											4				4
Above Normal					8	10	128				10				11
Below Normal					4	2									3
Dry					6	6	12			1	4				6
Critically Dry					5	1	7			2	9				3

Table H2-58

Entrainment at SWP and CVP Combined for Alternative B1, Steelhead

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						7,507					237				7,744
Above Normal					8,378	5,351	659			499	277				15,164
Below Normal					7,079	14,948				516	143				22,686
Dry					6,329	13,313	983			552	88				21,265
Critically Dry						10,112	507	397	152	583	63				11,814
No-Action Alternative when Recirculation is Occurring															
Wet						7,332					229				7,561
Above Normal					7,743	4,786	289			489	255				13,563
Below Normal					6,379	14,716				472	140				21,707
Dry					5,861	12,604	877			541	85				19,968
Critically Dry						10,050	468	344	114	581	58				11,615
Difference															
Wet						175					8				183
Above Normal					635	564	370			10	21				1,601
Below Normal					700	232				44	3				979
Dry					468	709	106			11	3				1,297
Critically Dry						61	39	54	38	2	5				199
Percent Difference															
Wet						2					4				2
Above Normal					8	12	128			2	8				12
Below Normal					11	2				9	2				5
Dry					8	6	12			2	4				6
Critically Dry						1	8	16	34	0	9				2

Table H2-59

Entrainment at SWP and CVP Combined for Alternative B2, Steelhead

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						7,507					214				7,721
Above Normal					8,378	5,144	659			499	278				14,959
Below Normal					9,268	15,030				516	143				24,957
Dry					6,427	13,313	983			552	88				21,363
Critically Dry					8,318	10,190	660	397	145	288	63				20,061
No-Action Alternative when Recirculation is Occurring															
Wet						7,332					202				7,534
Above Normal					7,743	4,690	289			489	261				13,473
Below Normal					8,692	14,714				472	140				24,018
Dry					6,021	12,604	877			541	85				20,128
Critically Dry					7,921	10,050	614	334	96	283	58				19,356
Difference															
Wet						175					12				187
Above Normal					635	454	370			10	17				1,486
Below Normal					576	316				44	3				939
Dry					406	709	106			11	3				1,235
Critically Dry					397	140	46	64	49	5	5				706
Percent Difference															
Wet						2					6				2
Above Normal					8	10	128			2	7				11
Below Normal					7	2				9	2				4
Dry					7	6	12			2	4				6
Critically Dry					5	1	7	19	52	2	9				4

Table H2-60

Entrainment at SWP and CVP Combined for Alternative C, Steelhead

<i>WY Type</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr 1-15</i>	<i>Apr 16-30</i>	<i>May 1-15</i>	<i>May 16-31</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Annual Total</i>
Wet					16,210	7,507	2,154			1,050	214				27,135
Above Normal					12,405	5,143	1,242		413	830	277				20,311
Below Normal					10,659	13,793	1,830		338	668	143				27,430
Dry					7,389	12,282	1,202			496	100				21,470
Critically Dry					8,318	10,190	660	407	152	288	51				20,066
No-Action Alternative when Recirculation is Occurring															
Wet					16,210	7,332	2,154			1,050	202				26,948
Above Normal					12,088	4,690	1,057		413	825	261				19,334
Below Normal					10,227	13,668	1,830		338	639	141				26,842
Dry					7,065	11,812	1,163			491	98				20,629
Critically Dry					7,921	10,050	614	372	119	283	49				19,408
Difference															
Wet					0	175	0			0	12				187
Above Normal					317	453	185		0	5	16				976
Below Normal					432	126	0		0	29	2				588
Dry					325	470	40			5	2				841
Critically Dry					397	140	46	35	33	5	3				658
Percent Difference															
Wet					0	2	0			0	6				1
Above Normal					3	10	17		0	1	6				5
Below Normal					4	1	0		0	5	1				2
Dry					5	4	3			1	2				4
Critically Dry					5	1	7	9	28	2	5				3

Table H2-61

Entrainment at SWP and CVP Combined for Alternative D, Steelhead

<i>WY Type</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr 1-15</i>	<i>Apr 16-30</i>	<i>May 1-15</i>	<i>May 16-31</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Annual Total</i>
Wet	22				16,210	7,507	2,154			1,050	213				27,155
Above Normal					12,405	5,143	1,242		413	830	277				20,310
Below Normal					10,659	13,186	1,830		338	668	143				26,822
Dry					7,389	11,724	1,202			506	100				20,921
Critically Dry					8,609	11,821	940	407	152	356	51				22,336
No-Action Alternative when Recirculation is Occurring															
Wet	22				16,210	7,332	2,154			1,050	202				26,969
Above Normal					12,088	4,690	1,057		413	825	261				19,334
Below Normal					10,227	13,081	1,830		338	639	141				26,255
Dry					7,065	11,322	1,163			502	98				20,149
Critically Dry					8,371	11,789	913	372	119	354	49				21,966
Difference															
Wet	0				0	175	0			0	11				186
Above Normal					317	453	185		0	5	16				976
Below Normal					432	105	0		0	29	2				567
Dry					325	403	40			4	2				773
Critically Dry					238	32	27	35	33	2	3				370
Percent Difference															
Wet	0				0	2	0			0	5				1
Above Normal					3	10	17		0	1	6				5
Below Normal					4	1	0		0	5	1				2
Dry					5	4	3			1	2				4
Critically Dry					3	0	3	9	28	1	5				2

Table H2-62

Entrainment at SWP and CVP Combined for Alternative A1, Splittail

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet											578,938				578,938
Above Normal					1,442	2,075	938				626,243				630,698
Below Normal					280	2,430									2,710
Dry					438	1,907	862			199	2,275				5,680
Critically Dry						1,480	554			328	1,708				4,070
No-Action Alternative when Recirculation is Occurring															
Wet											539,022				539,022
Above Normal					1,326	1,945	408				533,584				537,263
Below Normal					267	2,413									2,680
Dry					425	1,853	820			184	2,177				5,459
Critically Dry						1,475	538			325	1,529				3,867
Difference															
Wet											39,916				39,916
Above Normal					116	130	530				92,659				93,435
Below Normal					13	17									30
Dry					13	54	42			15	98				222
Critically Dry						5	16			4	179				203
Percent Difference															
Wet											7				7
Above Normal					9	7	130				17				17
Below Normal					5	1									1
Dry					3	3	5			8	5				4
Critically Dry						0	3			1	12				5

Table H2-63

Entrainment at SWP and CVP Combined for Alternative A2, Splittail

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet											578,832				578,832
Above Normal					1,442	1,978	938				626,243				630,601
Below Normal					736	2,435									3,170
Dry					570	1,907	862			199	2,275				5,813
Critically Dry					866	1,486	508			190	1,708				4,759
No-Action Alternative when Recirculation is Occurring															
Wet											539,022				539,022
Above Normal					1,326	1,874	408				533,584				537,191
Below Normal					725	2,411									3,136
Dry					559	1,853	820			184	2,177				5,593
Critically Dry					853	1,475	490			180	1,529				4,528
Difference															
Wet											39,810				39,810
Above Normal					116	105	530				92,659				93,410
Below Normal					11	24									34
Dry					12	54	42			15	98				221
Critically Dry					14	10	18			10	179				231
Percent Difference															
Wet											7				7
Above Normal					9	6	130				17				17
Below Normal					1	1									1
Dry					2	3	5			8	5				4
Critically Dry					2	1	4			5	12				5

Table H2-64

Entrainment at SWP and CVP Combined for Alternative B1, Splittail

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						2,783					578,938				581,720
Above Normal					1,442	2,075	938			27,721	765,787				797,963
Below Normal					338	2,430				259	3,556				6,583
Dry					453	1,862	862			203	2,506				5,886
Critically Dry						1,480	554	407	82	328	1,708				4,560
No-Action Alternative when Recirculation is Occurring															
Wet						2,693					539,022				541,715
Above Normal					1,326	1,945	408			27,378	705,218				736,276
Below Normal					267	2,413				248	3,524				6,452
Dry					425	1,788	820			193	2,420				5,646
Critically Dry						1,475	538	308	73	325	1,529				4,248
Difference															
Wet						89					39,916				40,005
Above Normal					116	130	530			343	60,569				61,688
Below Normal					71	17				11	32				131
Dry					28	74	42			9	86				240
Critically Dry						5	16	99	10	4	179				311
Percent Difference															
Wet						3					7				7
Above Normal					9	7	130			1	9				8
Below Normal					26	1				4	1				2
Dry					7	4	5			5	4				4
Critically Dry						0	3	32	13	1	12				7

Table H2-65

Entrainment at SWP and CVP Combined for Alternative B2, Splittail

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						2,783					598,509				601,292
Above Normal					1,442	1,978	938			27,721	765,553				797,632
Below Normal					782	2,435				259	3,556				7,031
Dry					581	1,863	862			203	2,506				6,015
Critically Dry					866	1,486	508	407	80	190	1,708				5,246
No-Action Alternative when Recirculation is Occurring															
Wet						2,693					562,440				565,133
Above Normal					1,326	1,874	408			27,378	728,905				759,890
Below Normal					725	2,411				248	3,524				6,908
Dry					559	1,788	820			193	2,420				5,780
Critically Dry					853	1,475	490	290	68	180	1,529				4,885
Difference															
Wet						89					36,069				36,158
Above Normal					116	105	530			343	36,648				37,742
Below Normal					57	24				11	32				124
Dry					23	74	42			9	86				235
Critically Dry					14	10	18	118	13	10	179				361
Percent Difference															
Wet						3					6				6
Above Normal					9	6	130			1	5				5
Below Normal					8	1				4	1				2
Dry					4	4	5			5	4				4
Critically Dry					2	1	4	41	18	5	12				7

Table H2-66

Entrainment at SWP and CVP Combined for Alternative C, Splittail

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet					2,783	2,783	2,969			60,114	598,455				667,104
Above Normal					2,131	1,978	1,734		32,043	52,753	762,983				853,623
Below Normal					1,011	2,283	1,985		162	317	3,567				9,324
Dry					699	1,749	1,176			250	2,674				6,548
Critically Dry					866	1,486	508	424	82	191	1,364				4,922
No-Action Alternative when Recirculation is Occurring															
Wet					2,783	2,693	2,969			60,114	562,440				631,000
Above Normal					2,073	1,874	1,470		32,043	52,582	729,322				819,363
Below Normal					968	2,273	1,985		162	309	3,551				9,248
Dry					681	1,699	1,160			246	2,627				6,412
Critically Dry					853	1,475	490	360	74	180	1,275				4,707
Difference															
Wet					0	89	0			0	36,015				36,104
Above Normal					58	104	265		0	171	33,661				34,259
Below Normal					43	9	0		0	7	16				76
Dry					18	49	16			5	48				136
Critically Dry					14	10	18	65	8	10	89				215
Percent Difference															
Wet					0	3	0			0	6				6
Above Normal					3	6	18		0	0	5				4
Below Normal					4	0	0		0	2	0				1
Dry					3	3	1			2	2				2
Critically Dry					2	1	4	18	11	6	7				5

Table H2-67

Entrainment at SWP and CVP Combined for Alternative D, Splittail

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet	199				2,783	2,783	2,969			60,114	595,810				664,658
Above Normal					2,131	1,978	1,734		32,043	52,753	762,983				853,623
Below Normal					1,011	2,129	1,985		162	317	3,567				9,171
Dry					699	1,723	1,176			265	2,674				6,538
Critically Dry					1,009	1,742	863	424	82	227	1,364				5,711
No-Action Alternative when Recirculation is Occurring															
Wet	199				2,783	2,693	2,969			60,114	562,440				631,199
Above Normal					2,073	1,874	1,470		32,043	52,582	729,322				819,363
Below Normal					968	2,122	1,985		162	309	3,551				9,096
Dry					681	1,681	1,160			261	2,627				6,410
Critically Dry					1,000	1,739	852	360	74	223	1,275				5,523
Difference															
Wet	0				0	89	0			0	33,370				33,459
Above Normal					58	104	265		0	171	33,661				34,259
Below Normal					43	8	0		0	7	16				74
Dry					18	42	16			4	48				128
Critically Dry					8	2	11	65	8	4	89				188
Percent Difference															
Wet	0				0	3	0			0	6				5
Above Normal					3	6	18		0	0	5				4
Below Normal					4	0	0		0	2	0				1
Dry					3	3	1			1	2				2
Critically Dry					1	0	1	18	11	2	7				3

Table H2-68

Entrainment at SWP and CVP Combined for Alternative A1, American shad

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet											41,726				41,726
Above Normal					5,683	753	64				33,998				40,498
Below Normal					3,459	1,090									4,549
Dry					3,269	894	260			65	6,009				10,498
Critically Dry						689	144			75	5,127				6,035
No-Action Alternative when Recirculation is Occurring															
Wet											41,294				41,294
Above Normal					5,195	720	45				32,994				38,954
Below Normal					3,271	1,079									4,350
Dry					3,074	860	237			65	5,994				10,230
Critically Dry						686	136			75	5,100				5,997
Difference															
Wet											433				433
Above Normal					488	32	19				1,004				1,543
Below Normal					188	11									199
Dry					196	34	23			1	15				268
Critically Dry						3	9			0	27				38
Percent Difference															
Wet											1				1
Above Normal					9	4	42				3				4
Below Normal					6	1									5
Dry					6	4	10			1	0				3
Critically Dry						0	6			0	1				1

Table H2-69

Entrainment at SWP and CVP Combined for Alternative A2, American shad

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet											41,725				41,725
Above Normal					5,683	715	64				33,998				40,460
Below Normal					4,755	1,094									5,848
Dry					3,379	894	260			65	6,009				10,608
Critically Dry					4,463	693	168			37	5,127				10,488
No-Action Alternative when Recirculation is Occurring															
Wet											41,294				41,294
Above Normal					5,195	689	45				32,994				38,923
Below Normal					4,595	1,079									5,674
Dry					3,204	860	237			65	5,994				10,361
Critically Dry					4,261	686	158			36	5,100				10,241
Difference															
Wet											431				431
Above Normal					488	26	19				1,004				1,537
Below Normal					160	15									174
Dry					175	34	23			1	15				247
Critically Dry					203	7	10			1	27				246
Percent Difference															
Wet											1				1
Above Normal					9	4	42				3				4
Below Normal					3	1									3
Dry					5	4	10			1	0				2
Critically Dry					5	1	6			1	1				2

Table H2-70

Entrainment at SWP and CVP Combined for Alternative B1, American shad

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						988					41,726				42,714
Above Normal					5,683	753	64			1,191	43,982				51,673
Below Normal					3,646	1,090				67	15,624				20,427
Dry					3,317	882	260			73	5,705				10,237
Critically Dry						689	144	111	20	75	5,127				6,166
No-Action Alternative when Recirculation is Occurring															
Wet						952					41,294				42,245
Above Normal					5,195	720	45			1,162	40,625				47,748
Below Normal					3,271	1,079				61	14,750				19,161
Dry					3,074	842	237			71	5,491				9,715
Critically Dry						686	136	92	15	75	5,100				6,103
Difference															
Wet						36					433				468
Above Normal					488	32	19			29	3,358				3,925
Below Normal					375	11				6	874				1,266
Dry					243	40	23			1	215				522
Critically Dry						3	9	19	5	0	27				63
Percent Difference															
Wet						4					1				1
Above Normal					9	4	42			2	8				8
Below Normal					11	1				10	6				7
Dry					8	5	10			2	4				5
Critically Dry						0	6	21	35	0	1				1

Table H2-71

Entrainment at SWP and CVP Combined for Alternative B2, American shad

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet						988					33,739				34,726
Above Normal					5,683	715	64			1,191	44,541				52,195
Below Normal					4,903	1,094				67	15,624				21,687
Dry					3,415	882	260			73	5,705				10,335
Critically Dry					4,463	693	168	111	19	37	5,127				10,617
No-Action Alternative when Recirculation is Occurring															
Wet						952					31,877				32,828
Above Normal					5,195	689	45			1,162	41,193				48,285
Below Normal					4,595	1,079				61	14,750				20,485
Dry					3,204	842	237			71	5,491				9,846
Critically Dry					4,261	686	158	88	12	36	5,100				10,341
Difference															
Wet						36					1,862				1,898
Above Normal					488	26	19			29	3,348				3,910
Below Normal					308	15				6	874				1,203
Dry					210	40	23			1	215				489
Critically Dry					203	7	10	23	7	1	27				276
Percent Difference															
Wet						4					6				6
Above Normal					9	4	42			2	8				8
Below Normal					7	1				10	6				6
Dry					7	5	10			2	4				5
Critically Dry					5	1	6	26	54	1	1				3

Table H2-72

Entrainment at SWP and CVP Combined for Alternative C, American shad

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet					10,927	988	674			2,468	33,738				48,795
Above Normal					8,376	715	283		809	1,852	44,303				56,337
Below Normal					5,682	1,018	520		44	87	15,277				22,626
Dry					3,938	823	329			64	8,649				13,804
Critically Dry					4,463	693	168	114	20	37	4,595				10,089
No-Action Alternative when Recirculation is Occurring															
Wet					10,927	952	674			2,468	31,877				46,898
Above Normal					8,132	689	273		809	1,838	41,250				52,991
Below Normal					5,451	1,012	520		44	83	14,840				21,949
Dry					3,770	796	321			64	8,530				13,481
Critically Dry					4,261	686	158	101	15	36	4,581				9,839
Difference															
Wet					0	36	0			0	1,861				1,897
Above Normal					244	26	9		0	14	3,053				3,346
Below Normal					231	6	0		0	4	437				678
Dry					168	26	9			1	119				323
Critically Dry					203	7	10	12	4	1	13				250
Percent Difference															
Wet					0	4	0			0	6				4
Above Normal					3	4	3		0	1	7				6
Below Normal					4	1	0		0	5	3				3
Dry					4	3	3			1	1				2
Critically Dry					5	1	6	12	29	1	0				3

Table H2-73

Entrainment at SWP and CVP Combined for Alternative D, American shad

WY Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep	Annual Total
Wet	77,041				10,927	988	674			2,468	33,477				125,575
Above Normal					8,376	715	283		809	1,852	44,303				56,337
Below Normal					5,682	957	520		44	87	15,277				22,566
Dry					3,938	801	329			65	8,649				13,783
Critically Dry					4,663	809	252	114	20	45	4,595				10,498
No-Action Alternative when Recirculation is Occurring															
Wet	77,041				10,927	952	674			2,468	31,877				123,939
Above Normal					8,132	689	273		809	1,838	41,250				52,991
Below Normal					5,451	953	520		44	83	14,840				21,889
Dry					3,770	779	321			65	8,530				13,464
Critically Dry					4,541	808	246	101	15	45	4,581				10,338
Difference															
Wet	0				0	36	0			0	1,601				1,636
Above Normal					244	26	9		0	14	3,053				3,346
Below Normal					231	5	0		0	4	437				677
Dry					168	23	9			1	119				319
Critically Dry					121	2	6	12	4	0	13				159
Percent Difference															
Wet	0				0	4	0			0	5				1
Above Normal					3	4	3		0	1	7				6
Below Normal					4	1	0		0	5	3				3
Dry					4	3	3			1	1				2
Critically Dry					3	0	2	12	29	0	0				2

Table H2-75
Proportion of San Joaquin River source water in Old River near Bacon Island when Recirculation is Occurring for Alternative B1

Alternative B1

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.01					0.23			
Above Normal					0.01	0.04	0.13			0.34	0.09			
Below Normal					0.00	0.00				0.23	0.02			
Dry					0.01	0.01	0.01			0.25	0.06			
Critically Dry						0.00	0.00	0.01	0.05	0.03	0.01			
All					0.01	0.02	0.02	0.01	0.05	0.22	0.08			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.01					0.23			
Above Normal					0.00	0.03	0.14			0.33	0.09			
Below Normal					0.00	0.00				0.23	0.02			
Dry					0.01	0.01	0.01			0.25	0.06			
Critically Dry						0.00	0.00	0.01	0.05	0.03	0.01			
All					0.01	0.01	0.03	0.01	0.05	0.22	0.08			

Difference between Alternative and No-Action Alternative

[illegible]

Table H2-76
Proportion of Sacramento River source water in Old River near Bacon Island when Recirculation is Occurring for Alternative B2

Alternative B2

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.77					0.64			
Above Normal					0.83	0.78	0.66			0.50	0.76			
Below Normal					0.92	0.90				0.61	0.88			
Dry					0.86	0.87	0.89			0.61	0.81			
Critically Dry					0.89	0.91	0.89	0.85	0.82	0.82	0.87			
All					0.88	0.83	0.87	0.85	0.82	0.68	0.78			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.78					0.63			
Above Normal					0.83	0.78	0.63			0.50	0.76			
Below Normal					0.92	0.90				0.61	0.88			
Dry					0.86	0.88	0.89			0.61	0.81			
Critically Dry					0.89	0.91	0.89	0.84	0.82	0.82	0.88			
All					0.88	0.84	0.86	0.84	0.82	0.68	0.78			

Difference between Alternative and No-Action Alternative

[illegible]

Table H2-77
Proportion of San Joaquin River source water in Old River near Bacon Island when Recirculation is Occurring for Alternative B2

Alternative B2

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.01					0.17			
Above Normal					0.01	0.04	0.13			0.34	0.08			
Below Normal					0.00	0.00				0.23	0.02			
Dry					0.01	0.01	0.01			0.25	0.06			
Critically Dry					0.00	0.00	0.00	0.02	0.05	0.07	0.01			
All					0.01	0.02	0.02	0.02	0.05	0.18	0.08			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.01					0.17			
Above Normal					0.00	0.04	0.14			0.33	0.08			
Below Normal					0.00	0.00				0.23	0.02			
Dry					0.01	0.01	0.01			0.25	0.06			
Critically Dry					0.00	0.00	0.00	0.02	0.04	0.07	0.01			
All					0.01	0.02	0.02	0.02	0.04	0.18	0.08			

Difference between Alternative and No-Action Alternative

[illegible]

Table H2-78
Proportion of Sacramento River source water in Old River near Bacon Island when Recirculation is Occurring for Alternative D

Alternative D

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	0.90				0.81	0.77	0.70			0.61	0.64			
Above Normal					0.79	0.77	0.66		0.50	0.53	0.76			
Below Normal					0.91	0.90	0.88		0.58	0.62	0.88			
Dry					0.87	0.89	0.89			0.65	0.83			
Critically Dry					0.89	0.90	0.89	0.86	0.81	0.79	0.84			
All	0.90				0.87	0.87	0.86	0.86	0.74	0.69	0.80			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	0.90				0.82	0.78	0.71			0.61	0.63			
Above Normal					0.80	0.78	0.65		0.52	0.54	0.76			
Below Normal					0.91	0.90	0.88		0.59	0.63	0.88			
Dry					0.87	0.89	0.89			0.65	0.83			
Critically Dry					0.89	0.90	0.90	0.87	0.83	0.81	0.84			
All	0.90				0.87	0.87	0.86	0.87	0.77	0.70	0.80			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	0.00				-0.01	0.00	-0.01			0.00	0.00			
Above Normal					-0.01	0.00	0.01		-0.02	-0.01	0.00			
Below Normal					0.00	0.00	0.00		-0.02	-0.01	0.00			
Dry					0.00	0.00	0.00			0.00	0.00			
Critically Dry					0.00	0.00	0.00	0.00	-0.02	-0.02	0.00			
All	0.00				0.00	0.00	0.00	0.00	-0.02	-0.01	0.00			

Table H2-79
Proportion of San Joaquin River source water in Old River near Bacon Island when Recirculation is Occurring for Alternative D

Alternative D

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	0.00				0.01	0.01	0.14			0.20	0.17			
Above Normal					0.01	0.04	0.13		0.30	0.27	0.08			
Below Normal					0.00	0.00	0.00		0.22	0.21	0.03			
Dry					0.01	0.01	0.01			0.22	0.06			
Critically Dry					0.00	0.00	0.00	0.02	0.06	0.10	0.04			
All	0.00				0.01	0.01	0.02	0.02	0.11	0.17	0.07			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	0.00				0.00	0.01	0.14			0.19	0.17			
Above Normal					0.00	0.04	0.14		0.29	0.26	0.08			
Below Normal					0.00	0.00	0.00		0.20	0.20	0.03			
Dry					0.01	0.00	0.01			0.21	0.05			
Critically Dry					0.00	0.00	0.00	0.01	0.04	0.08	0.04			
All	0.00				0.00	0.01	0.02	0.01	0.09	0.16	0.07			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	0.00				0.00	0.00	0.00			0.00	0.00			
Above Normal					0.00	0.00	0.00		0.02	0.01	0.00			
Below Normal					0.00	0.00	0.00		0.01	0.01	0.00			
Dry					0.00	0.00	0.00			0.00	0.00			
Critically Dry					0.00	0.00	0.00	0.00	0.02	0.02	0.00			
All	0.00				0.00	0.00	0.00	0.00	0.02	0.01	0.00			

Table H2-80
Proportion of Sacramento River source water in Middle River near Bacon Island when Recirculation is Occurring for Alternative B1

Alternative B1

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.42					0.17			
Above Normal					0.57	0.38	0.23			0.09	0.36			
Below Normal					0.75	0.74				0.21	0.67			
Dry					0.59	0.64	0.60			0.16	0.52			
Critically Dry						0.74	0.70	0.65	0.49	0.53	0.70			
All					0.64	0.54	0.59	0.65	0.49	0.22	0.46			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.43					0.17			
Above Normal					0.59	0.41	0.26			0.09	0.37			
Below Normal					0.77	0.74				0.21	0.67			
Dry					0.61	0.66	0.61			0.16	0.52			
Critically Dry						0.74	0.70	0.66	0.51	0.53	0.72			
All					0.66	0.56	0.60	0.66	0.51	0.22	0.47			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						-0.01					0.00			
Above Normal					-0.02	-0.03	-0.04			0.00	-0.01			
Below Normal					-0.02	-0.01				0.00	-0.01			
Dry					-0.01	-0.02	-0.01			0.00	0.00			
Critically Dry						0.00	0.00	-0.01	-0.02	0.00	-0.02			
All					-0.02	-0.02	-0.01	-0.01	-0.02	0.00	-0.01			

Table H2-81
Proportion of San Joaquin River source water in Middle River near Bacon Island when Recirculation is Occurring for Alternative B1

Alternative B1

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.18					0.63			
Above Normal					0.18	0.30	0.52			0.79	0.38			
Below Normal					0.11	0.08				0.64	0.12			
Dry					0.15	0.13	0.19			0.73	0.27			
Critically Dry						0.05	0.06	0.13	0.31	0.28	0.10			
All					0.14	0.18	0.18	0.13	0.31	0.64	0.31			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.17					0.62			
Above Normal					0.15	0.26	0.45			0.79	0.37			
Below Normal					0.08	0.07				0.63	0.11			
Dry					0.13	0.11	0.18			0.73	0.27			
Critically Dry						0.05	0.06	0.12	0.30	0.28	0.09			
All					0.12	0.16	0.17	0.12	0.30	0.63	0.30			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.01					0.01			
Above Normal					0.03	0.04	0.07			0.00	0.01			
Below Normal					0.03	0.01				0.00	0.01			
Dry					0.02	0.02	0.01			0.00	0.00			
Critically Dry						0.00	0.00	0.01	0.02	0.00	0.02			
All					0.02	0.02	0.01	0.01	0.02	0.00	0.01			

Table H2-82
Proportion of Sacramento River source water in Middle River near Bacon Island when Recirculation is Occurring for Alternative B2

Alternative B2

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.42					0.21			
Above Normal					0.57	0.36	0.23			0.09	0.36			
Below Normal					0.77	0.72				0.21	0.67			
Dry					0.61	0.64	0.60			0.16	0.52			
Critically Dry					0.77	0.74	0.71	0.61	0.50	0.44	0.69			
All					0.69	0.53	0.63	0.61	0.50	0.27	0.43			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.43					0.21			
Above Normal					0.59	0.38	0.26			0.09	0.37			
Below Normal					0.79	0.71				0.21	0.67			
Dry					0.63	0.66	0.61			0.16	0.52			
Critically Dry					0.78	0.74	0.71	0.62	0.52	0.45	0.72			
All					0.71	0.55	0.63	0.62	0.52	0.28	0.43			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						-0.01					0.00			
Above Normal					-0.02	-0.02	-0.04			0.00	0.00			
Below Normal					-0.02	0.00				0.00	-0.01			
Dry					-0.01	-0.02	-0.01			0.00	0.00			
Critically Dry					-0.01	0.00	0.00	-0.01	-0.02	-0.01	-0.03			
All					-0.01	-0.01	-0.01	-0.01	-0.02	-0.01	0.00			

Table H2-83
Proportion of San Joaquin River source water in Middle River near Bacon Island when Recirculation is Occurring for Alternative B2

Alternative B2

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.19					0.53			
Above Normal					0.18	0.33	0.52			0.79	0.38			
Below Normal					0.09	0.08				0.64	0.12			
Dry					0.15	0.13	0.19			0.73	0.27			
Critically Dry					0.07	0.05	0.07	0.16	0.29	0.40	0.11			
All					0.11	0.20	0.15	0.16	0.29	0.58	0.33			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.17					0.54			
Above Normal					0.15	0.30	0.45			0.79	0.37			
Below Normal					0.07	0.08				0.63	0.11			
Dry					0.13	0.11	0.18			0.73	0.27			
Critically Dry					0.05	0.05	0.07	0.14	0.27	0.38	0.09			
All					0.10	0.18	0.14	0.14	0.27	0.57	0.33			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.01					0.00			
Above Normal					0.03	0.03	0.07			0.00	0.00			
Below Normal					0.02	0.00				0.00	0.01			
Dry					0.01	0.02	0.01			0.00	0.00			
Critically Dry					0.01	0.00	0.00	0.02	0.02	0.01	0.02			
All					0.02	0.02	0.01	0.02	0.02	0.01	0.00			

Table H2-84
Proportion of Sacramento River source water in Middle River near Bacon Island when Recirculation is Occurring for Alternative D

Alternative D

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	0.76				0.47	0.41	0.27			0.20	0.21			
Above Normal					0.54	0.35	0.19		0.16	0.13	0.37			
Below Normal					0.76	0.66	0.65		0.25	0.22	0.63			
Dry					0.64	0.64	0.59			0.19	0.57			
Critically Dry					0.74	0.71	0.71	0.64	0.48	0.38	0.61			
All	0.76				0.68	0.60	0.59	0.64	0.42	0.27	0.47			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	0.76				0.53	0.43	0.32			0.21	0.21			
Above Normal					0.58	0.38	0.21		0.16	0.15	0.38			
Below Normal					0.77	0.67	0.67		0.25	0.24	0.65			
Dry					0.65	0.66	0.62			0.19	0.57			
Critically Dry					0.75	0.73	0.73	0.66	0.53	0.41	0.63			
All	0.76				0.69	0.62	0.62	0.66	0.45	0.29	0.48			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	-0.01				-0.06	-0.02	-0.05			-0.01	0.00			
Above Normal					-0.04	-0.03	-0.02		0.00	-0.01	-0.01			
Below Normal					-0.01	-0.01	-0.02		0.00	-0.01	-0.02			
Dry					-0.01	-0.02	-0.03			0.00	-0.01			
Critically Dry					-0.01	-0.02	-0.02	-0.03	-0.05	-0.03	-0.02			
All	-0.01				-0.02	-0.02	-0.02	-0.03	-0.04	-0.02	-0.01			

Table H2-85
Proportion of San Joaquin River source water in Middle River near Bacon Island when Recirculation is Occurring for Alternative D

Alternative D

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	0.14				0.13	0.20	0.47			0.60	0.53			
Above Normal					0.17	0.34	0.58		0.66	0.69	0.38			
Below Normal					0.08	0.13	0.13		0.57	0.61	0.17			
Dry					0.13	0.15	0.19			0.67	0.25			
Critically Dry					0.07	0.09	0.08	0.14	0.32	0.46	0.21			
All	0.14				0.11	0.16	0.19	0.14	0.39	0.57	0.31			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	0.13				0.09	0.17	0.44			0.59	0.54			
Above Normal					0.12	0.30	0.54		0.67	0.67	0.37			
Below Normal					0.06	0.12	0.11		0.57	0.60	0.15			
Dry					0.12	0.12	0.17			0.67	0.24			
Critically Dry					0.06	0.07	0.06	0.12	0.26	0.43	0.19			
All	0.13				0.09	0.14	0.16	0.12	0.35	0.55	0.30			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	0.01				0.04	0.02	0.04			0.01	0.00			
Above Normal					0.05	0.04	0.04		-0.01	0.02	0.01			
Below Normal					0.01	0.01	0.02		0.00	0.01	0.01			
Dry					0.01	0.02	0.03			0.01	0.01			
Critically Dry					0.01	0.02	0.01	0.03	0.06	0.03	0.02			
All	0.01				0.02	0.02	0.02	0.03	0.04	0.02	0.01			

Table H2-86
Proportion of Sacramento River source water in San Joaquin River at Rindge Pump when Recirculation is Occurring for Alternative B1

Alternative B1

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.03					0.01			
Above Normal					0.05	0.04	0.07			0.00	0.04			
Below Normal					0.11	0.03				0.01	0.06			
Dry					0.03	0.06	0.01			0.00	0.03			
Critically Dry						0.08	0.09	0.06	0.05	0.04	0.30			
All					0.06	0.05	0.05	0.06	0.05	0.01	0.05			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.00					0.00			
Above Normal					0.00	0.00	0.00			0.00	0.00			
Below Normal					0.03	0.03				0.00	0.10			
Dry					0.00	0.05	0.03			0.00	0.03			
Critically Dry						0.08	0.11	0.02	0.00	0.04	0.32			
All					0.01	0.03	0.06	0.02	0.00	0.01	0.04			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.03					0.01			
Above Normal					0.04	0.04	0.07			0.00	0.04			
Below Normal					0.08	0.00				0.01	-0.04			
Dry					0.03	0.01	-0.01			0.00	0.00			
Critically Dry						-0.01	-0.02	0.04	0.05	0.00	-0.01			
All					0.05	0.02	-0.01	0.04	0.05	0.01	0.01			

Table H2-87

Proportion of San Joaquin River source water in San Joaquin River at Rindge Pump when Recirculation is Occurring for Alternative B1

Alternative B1

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.68					0.91			
Above Normal					0.84	0.79	0.84			0.94	0.84			
Below Normal					0.74	0.82				0.91	0.75			
Dry					0.75	0.79	0.87			0.91	0.75			
Critically Dry						0.61	0.57	0.79	0.86	0.83	0.39			
All					0.76	0.77	0.74	0.79	0.86	0.90	0.77			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.69					0.91			
Above Normal					0.87	0.81	0.93			0.94	0.88			
Below Normal					0.79	0.81				0.92	0.70			
Dry					0.75	0.77	0.84			0.91	0.75			
Critically Dry						0.60	0.55	0.82	0.91	0.82	0.39			
All					0.78	0.77	0.73	0.82	0.91	0.91	0.78			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						-0.01					-0.01			
Above Normal					-0.03	-0.02	-0.09			0.00	-0.04			
Below Normal					-0.04	0.01				-0.01	0.05			
Dry					0.00	0.02	0.03			0.00	0.00			
Critically Dry						0.01	0.03	-0.03	-0.05	0.01	0.00			
All					-0.02	0.00	0.01	-0.03	-0.05	-0.01	-0.01			

Table H2-88
Proportion of Sacramento River source water in San Joaquin River at Rindge Pump when Recirculation is Occurring for Alternative B2

Alternative B2

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.02					0.01			
Above Normal					0.05	0.03	0.07			0.00	0.03			
Below Normal					0.08	0.04				0.01	0.06			
Dry					0.03	0.06	0.01			0.00	0.03			
Critically Dry					0.08	0.07	0.07	0.07	0.06	0.07	0.28			
All					0.06	0.04	0.05	0.07	0.06	0.03	0.04			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.00					0.00			
Above Normal					0.00	0.00	0.00			0.00	0.00			
Below Normal					0.03	0.02				0.00	0.10			
Dry					0.00	0.05	0.03			0.00	0.03			
Critically Dry					0.06	0.08	0.08	0.02	0.00	0.02	0.32			
All					0.03	0.02	0.06	0.02	0.00	0.01	0.03			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.02					0.01			
Above Normal					0.04	0.03	0.07			0.00	0.02			
Below Normal					0.05	0.02				0.01	-0.04			
Dry					0.02	0.01	-0.01			0.00	0.00			
Critically Dry					0.02	-0.01	-0.01	0.06	0.06	0.05	-0.03			
All					0.03	0.02	-0.01	0.06	0.06	0.02	0.01			

Table H2-89

Proportion of San Joaquin River source water in San Joaquin River at Rindge Pump when Recirculation is Occurring for Alternative B2

Alternative B2

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.69					0.89			
Above Normal					0.84	0.81	0.84			0.94	0.86			
Below Normal					0.77	0.82				0.91	0.75			
Dry					0.77	0.79	0.87			0.91	0.75			
Critically Dry					0.69	0.63	0.66	0.77	0.84	0.79	0.41			
All					0.75	0.79	0.74	0.77	0.84	0.87	0.80			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.69					0.91			
Above Normal					0.87	0.83	0.93			0.94	0.88			
Below Normal					0.80	0.84				0.92	0.70			
Dry					0.77	0.77	0.84			0.91	0.75			
Critically Dry					0.68	0.60	0.64	0.83	0.91	0.84	0.39			
All					0.76	0.79	0.73	0.83	0.91	0.89	0.81			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.00					-0.02			
Above Normal					-0.03	-0.02	-0.09			0.00	-0.03			
Below Normal					-0.03	-0.02				-0.01	0.05			
Dry					0.00	0.02	0.03			0.00	0.00			
Critically Dry					0.01	0.03	0.02	-0.05	-0.07	-0.05	0.01			
All					-0.01	0.00	0.01	-0.05	-0.07	-0.02	-0.01			

Table H2-90
Proportion of Sacramento River source water in San Joaquin River at Rindge Pump when Recirculation is Occurring for Alternative D

Alternative D

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	0.04				0.05	0.03	0.05			0.00	0.01			
Above Normal					0.07	0.05	0.01		0.00	0.01	0.04			
Below Normal					0.07	0.06	0.05		0.02	0.01	0.08			
Dry					0.03	0.06	0.07			0.01	0.05			
Critically Dry					0.05	0.08	0.14	0.12	0.11	0.07	0.19			
All	0.04				0.05	0.06	0.09	0.12	0.09	0.03	0.06			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	0.01				0.00	0.00	0.00			0.00	0.00			
Above Normal					0.01	0.00	0.00		0.00	0.00	0.00			
Below Normal					0.02	0.02	0.05		0.00	0.00	0.07			
Dry					0.01	0.04	0.05			0.00	0.05			
Critically Dry					0.04	0.07	0.12	0.03	0.00	0.01	0.22			
All	0.01				0.02	0.03	0.07	0.03	0.00	0.01	0.04			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	0.03				0.05	0.03	0.05	0.00	0.00	0.00	0.01			
Above Normal					0.06	0.04	0.01	0.00	0.00	0.01	0.04			
Below Normal					0.04	0.04	0.00	0.00	0.02	0.01	0.01			
Dry					0.02	0.02	0.01	0.00	0.00	0.00	0.00			
Critically Dry					0.01	0.01	0.02	0.09	0.11	0.05	-0.03			
All	0.03				0.03	0.03	0.02	0.09	0.09	0.03	0.02			

Table H2-91

Proportion of San Joaquin River source water in San Joaquin River at Rindge Pump when Recirculation is Occurring for Alternative D

Alternative D

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	0.85				0.55	0.69	0.74			0.93	0.89			
Above Normal					0.79	0.79	0.88		0.96	0.92	0.83			
Below Normal					0.71	0.78	0.83		0.94	0.90	0.75			
Dry					0.78	0.81	0.81			0.89	0.73			
Critically Dry					0.72	0.69	0.62	0.73	0.78	0.81	0.54			
All	0.85				0.73	0.76	0.74	0.73	0.82	0.87	0.77			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	0.88				0.49	0.69	0.70			0.93	0.91			
Above Normal					0.82	0.83	0.88		0.96	0.94	0.88			
Below Normal					0.73	0.82	0.80		0.97	0.92	0.75			
Dry					0.78	0.81	0.79			0.90	0.73			
Critically Dry					0.70	0.68	0.61	0.81	0.91	0.87	0.53			
All	0.88				0.73	0.78	0.73	0.81	0.92	0.90	0.79			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	-0.03				0.06	0.00	0.04	0.00	0.00	0.00	-0.02			
Above Normal					-0.04	-0.03	0.00	0.00	0.00	-0.02	-0.05			
Below Normal					-0.02	-0.03	0.03	0.00	-0.02	-0.02	0.00			
Dry					0.00	0.00	0.02	0.00	0.00	-0.01	0.00			
Critically Dry					0.02	0.02	0.01	-0.07	-0.13	-0.06	0.01			
All	-0.03				0.00	-0.01	0.02	-0.07	-0.10	-0.03	-0.02			

Table H2-92
Average Flow (cfs) in the San Joaquin River at Vernalis when Recirculation is Occurring for Alternative A1

Alternative A1

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											3,377			
Above Normal					2,772	3,420	3,377				2,922			
Below Normal					1,983	2,280								
Dry					2,195	2,280	2,045			2,280	1,466			
Critically Dry						1,420	1,073			1,101	710			
All					2,221	2,691	1,819			1,691	1,974			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											3,084			
Above Normal					2,186	2,724	2,036				2,242			
Below Normal					1,719	2,142								
Dry					1,924	1,849	1,645			2,073	1,377			
Critically Dry						1,383	925			1,051	546			
All					1,899	2,219	1,392			1,562	1,703			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											293			
Above Normal					586	696	1,341				680			
Below Normal					265	138								
Dry					272	431	400			207	90			
Critically Dry						37	148			50	164			
All					322	472	427			129	272			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet					0.0%						9.5%			
Above Normal					26.8%	25.5%	65.9%				30.3%			
Below Normal					15.4%	6.5%								
Dry					14.1%	23.3%	24.3%			10.0%	6.5%			
Critically Dry					0.0%	2.6%	16.0%			4.8%	29.9%			
All					16.9%	21.3%	30.6%			8.2%	16.0%			

Table H2-93
Average Flow (cfs) in the San Joaquin River at Vernalis when Recirculation is Occurring for Alternative A2

Alternative A2

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											3,377			
Above Normal					2,772	3,387	3,377				2,922			
Below Normal					2,045	2,280								
Dry					2,153	2,280	2,045			2,280	1,466			
Critically Dry					1,982	1,467	1,278			1,272	710			
All					2,133	2,709	1,718			1,474	1,974			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											3,084			
Above Normal					2,186	2,830	2,036				2,242			
Below Normal					1,906	2,211								
Dry					1,910	1,849	1,645			2,073	1,377			
Critically Dry					1,715	1,383	1,105			1,153	546			
All					1,881	2,318	1,360			1,337	1,703			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											293			
Above Normal					586	557	1,341				680			
Below Normal					139	69								
Dry					243	431	400			207	90			
Critically Dry					267	83	173			119	164			
All					253	391	358			137	272			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											9.5%			
Above Normal					26.8%	19.7%	65.9%				30.3%			
Below Normal					7.3%	3.1%								
Dry					12.7%	23.3%	24.3%			10.0%	6.5%			
Critically Dry					15.6%	6.0%	15.6%			10.4%	29.9%			
All					13.4%	16.9%	26.3%			10.2%	16.0%			

Table H2-94
Average Flow (cfs) in the San Joaquin River at Vernalis when Recirculation is Occurring for Alternative B1

Alternative B1

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						3,280					3,377			
Above Normal					2,772	3,420	3,377			2,921	3,020			
Below Normal					2,265	2,280				2,252	1,939			
Dry					2,270	2,280	2,045			2,003	1,463			
Critically Dry						1,420	1,073	1,694	2,108	1,101	710			
All					2,352	2,707	1,819	1,694	2,108	2,130	2,227			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						2,948					3,084			
Above Normal					2,186	2,724	2,036			2,840	2,499			
Below Normal					1,719	2,142				1,978	1,669			
Dry					1,924	1,841	1,645			1,854	1,328			
Critically Dry						1,383	925	1,455	1,854	1,051	546			
All					1,899	2,249	1,392	1,455	1,854	1,939	1,907			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						332					293			
Above Normal					586	696	1,341			80	521			
Below Normal					547	138				274	270			
Dry					346	439	400			149	134			
Critically Dry						37	148	239	254	50	164			
All					453	459	427	239	254	190	320			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						11.2%					9.5%			
Above Normal					26.8%	25.5%	65.9%			2.8%	20.8%			
Below Normal					31.8%	6.5%				13.8%	16.2%			
Dry					18.0%	23.8%	24.3%			8.0%	10.1%			
Critically Dry						2.6%	16.0%	16.4%	13.7%	4.8%	29.9%			
All					23.9%	20.4%	30.6%	16.4%	13.7%	9.8%	16.8%			

Table H2-95
Average Flow (cfs) in the San Joaquin River at Vernalis when Recirculation is Occurring for Alternative B2

Alternative B2

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						3,281					3,162			
Above Normal					2,772	3,387	3,377			2,921	2,995			
Below Normal					2,270	2,280				2,252	1,939			
Dry					2,209	2,280	2,045			2,003	1,463			
Critically Dry					1,982	1,467	1,278	1,848	1,985	1,272	710			
All					2,215	2,720	1,718	1,848	1,985	1,911	2,437			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						2,948					3,016			
Above Normal					2,186	2,830	2,036			2,840	2,711			
Below Normal					1,906	2,211				1,978	1,669			
Dry					1,910	1,841	1,645			1,854	1,328			
Critically Dry					1,715	1,383	1,105	1,564	1,655	1,153	546			
All					1,881	2,328	1,360	1,564	1,655	1,734	2,208			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						333					146			
Above Normal					586	557	1,341			80	284			
Below Normal					364	69				274	270			
Dry					299	439	401			149	134			
Critically Dry					267	83	173	284	330	119	164			
All					334	392	358	284	330	177	228			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						11.3%					4.9%			
Above Normal					26.8%	19.7%	65.9%			2.8%	10.5%			
Below Normal					19.1%	3.1%				13.8%	16.2%			
Dry					15.7%	23.8%	24.4%			8.0%	10.1%			
Critically Dry					15.6%	6.0%	15.6%	18.2%	19.9%	10.4%	29.9%			
All					17.8%	16.8%	26.3%	18.2%	19.9%	10.2%	10.3%			

Table H2-96
Average Flow (cfs) in the San Joaquin River at Vernalis when Recirculation is Occurring for Alternative C

Alternative C

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet					3,420	3,420	3,399			2,495	3,162			
Above Normal					3,420	3,387	3,399		6,893	3,170	3,022			
Below Normal					2,273	2,280	2,251		5,985	2,252	1,993			
Dry					2,217	2,197	2,097			1,885	1,461			
Critically Dry					1,982	1,467	1,278	2,256	2,257	1,285	710			
All					2,425	2,578	2,143	2,256	3,265	2,085	2,246			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet					2,501	2,948	2,360			2,285	3,016			
Above Normal					2,567	2,830	2,711		5,867	2,715	2,669			
Below Normal					1,985	2,096	1,788		5,152	1,892	1,701			
Dry					1,978	1,795	1,609			1,679	1,342			
Critically Dry					1,715	1,383	1,105	1,658	1,729	1,153	593			
All					2,041	2,207	1,677	1,658	2,644	1,816	2,004			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet					919	472	1,038			210	146			
Above Normal					853	557	687		1,025	456	353			
Below Normal					287	184	463		833	360	292			
Dry					239	401	489			205	120			
Critically Dry					267	83	173	597	528	133	117			
All					385	370	466	597	620	269	242			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet					36.8%	16.0%	44.0%			9.2%	4.9%			
Above Normal					33.3%	19.7%	25.3%		17.5%	16.8%	13.2%			
Below Normal					14.5%	8.8%	25.9%		16.2%	19.0%	17.2%			
Dry					12.1%	22.4%	30.4%			12.2%	8.9%			
Critically Dry					15.6%	6.0%	15.6%	36.0%	30.5%	11.5%	19.8%			
All					18.9%	16.8%	27.8%	36.0%	23.5%	14.8%	12.1%			

Table H2-97
Average Flow (cfs) in the San Joaquin River at Vernalis when Recirculation is Occurring for Alternative D

Alternative D

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	1,191				3,420	3,420	3,399			2,496	3,162			
Above Normal					3,420	3,387	3,399		6,893	3,170	3,022			
Below Normal					2,273	2,169	2,251		5,985	2,252	1,993			
Dry					2,217	2,160	2,097			1,851	1,461			
Critically Dry					1,983	1,780	1,293	2,260	2,263	1,352	710			
All	1,191				2,373	2,344	2,021	2,260	3,269	1,884	2,246			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	1,097				2,501	2,948	2,360			2,285	3,016			
Above Normal					2,567	2,830	2,711		5,867	2,715	2,669			
Below Normal					1,985	2,009	1,788		5,152	1,892	1,701			
Dry					1,978	1,798	1,609			1,686	1,342			
Critically Dry					1,788	1,502	1,161	1,658	1,729	1,250	593			
All	1,097				2,024	2,010	1,613	1,658	2,644	1,674	2,004			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	94				919	472	1,038			210	146			
Above Normal					853	557	687		1,025	456	353			
Below Normal					287	160	463		833	360	292			
Dry					239	363	489			165	120			
Critically Dry					194	277	133	602	534	102	117			
All	94				350	334	408	602	625	209	242			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	8.6%				36.8%	16.0%	44.0%			9.2%	4.9%			
Above Normal					33.3%	19.7%	25.3%		17.5%	16.8%	13.2%			
Below Normal					14.5%	7.9%	25.9%		16.2%	19.0%	17.2%			
Dry					12.1%	20.2%	30.4%			9.8%	8.9%			
Critically Dry					10.9%	18.5%	11.4%	36.3%	30.9%	8.2%	19.8%			
All	8.6%				17.3%	16.6%	25.3%	36.3%	23.6%	12.5%	12.1%			

Table H2-98
Proportion of Delta and Sacramento source water in San Joaquin River below Merced River
when Recirculation is Occuring for each Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Alternative A1														
Wet											0.19			
Above Normal					0.31	0.36	0.58				0.49			
Below Normal					0.24	0.12								
Dry					0.22	0.37	0.27			0.18	0.14			
Critically Dry						0.07	0.27			0.14	0.32			
All					0.25	0.33	0.35			0.17	0.30			
Alternative A2														
Wet											0.19			
Above Normal					0.31	0.32	0.58				0.49			
Below Normal					0.20	0.17								
Dry					0.21	0.39	0.27			0.18	0.14			
Critically Dry					0.29	0.22	0.36			0.30	0.32			
All					0.24	0.31	0.37			0.26	0.30			
Alternative B1														
Wet						0.16					0.19			
Above Normal					0.31	0.36	0.58			0.12	0.41			
Below Normal					0.40	0.12				0.25	0.32			
Dry					0.27	0.37	0.27			0.14	0.21			
Critically Dry						0.07	0.27	0.41	0.35	0.14	0.32			
All					0.32	0.31	0.35	0.41	0.35	0.20	0.33			
Alternative B2														
Wet						0.16					0.22			
Above Normal					0.31	0.32	0.58			0.12	0.37			
Below Normal					0.33	0.17				0.23	0.32			
Dry					0.25	0.38	0.27			0.14	0.21			
Critically Dry					0.29	0.22	0.36	0.41	0.43	0.30	0.32			
All					0.29	0.30	0.37	0.41	0.43	0.22	0.32			
Alternative C														
Wet					0.40	0.21	0.45			0.16	0.22			
Above Normal					0.36	0.37	0.37		0.47	0.30	0.42			
Below Normal					0.25	0.24	0.29		0.46	0.30	0.34			
Dry					0.23	0.35	0.32			0.20	0.19			
Critically Dry					0.29	0.22	0.36	0.58	0.55	0.31	0.24			
All					0.29	0.32	0.34	0.58	0.52	0.26	0.34			
Alternative D														
Wet					0.40	0.21	0.45			0.16	0.21			
Above Normal					0.36	0.37	0.37		0.47	0.30	0.42			
Below Normal					0.25	0.23	0.30		0.46	0.29	0.34			
Dry					0.23	0.34	0.32			0.17	0.19			
Critically Dry					0.22	0.40	0.30	0.58	0.55	0.26	0.24			
All					0.27	0.34	0.33	0.58	0.52	0.25	0.34			

Table H2-99
Proportion of Delta and Sacramento source water in San Joaquin River at Vernalis
when Recirculation is Occuring for each Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Alternative A1														
Wet											0.09			
Above Normal					0.21	0.20	0.40				0.23			
Below Normal					0.13	0.06								
Dry					0.12	0.19	0.20			0.09	0.06			
Critically Dry						0.03	0.14			0.05	0.23			
All					0.14	0.18	0.23			0.08	0.14			
Alternative A2														
Wet											0.09			
Above Normal					0.21	0.16	0.40				0.23			
Below Normal					0.07	0.03								
Dry					0.11	0.19	0.20			0.09	0.06			
Critically Dry					0.13	0.06	0.14			0.09	0.23			
All					0.12	0.14	0.21			0.09	0.14			
Alternative B1														
Wet						0.10					0.09			
Above Normal					0.21	0.20	0.40			0.03	0.17			
Below Normal					0.24	0.06				0.12	0.14			
Dry					0.15	0.19	0.20			0.07	0.09			
Critically Dry						0.03	0.14	0.14	0.12	0.05	0.23			
All					0.19	0.17	0.23	0.14	0.12	0.09	0.14			
Alternative B2														
Wet						0.10					0.05			
Above Normal					0.21	0.16	0.40			0.03	0.09			
Below Normal					0.16	0.03				0.12	0.14			
Dry					0.14	0.19	0.20			0.07	0.09			
Critically Dry					0.13	0.06	0.14	0.15	0.17	0.09	0.23			
All					0.15	0.14	0.21	0.15	0.17	0.09	0.09			
Alternative C														
Wet					0.27	0.14	0.31			0.08	0.05			
Above Normal					0.25	0.16	0.20		0.15	0.14	0.12			
Below Normal					0.13	0.08	0.21		0.14	0.16	0.15			
Dry					0.11	0.18	0.23			0.11	0.08			
Critically Dry					0.13	0.06	0.14	0.26	0.23	0.10	0.17			
All					0.16	0.14	0.22	0.26	0.19	0.13	0.11			
Alternative D														
Wet					0.27	0.14	0.31			0.08	0.05			
Above Normal					0.25	0.16	0.20		0.15	0.14	0.12			
Below Normal					0.13	0.07	0.21		0.14	0.16	0.15			
Dry					0.11	0.17	0.23			0.09	0.08			
Critically Dry					0.10	0.16	0.10	0.27	0.24	0.08	0.17			
All					0.15	0.14	0.20	0.27	0.19	0.11	0.11			

Table H2-100
Median, 20 and 80 percent Exceedances Water Temperature (degree Fahrenheit) for
alternatives A2, B2, C, D and No-Action Alternative at San Joaquin River at Vernalis
1980-2003

	Jan - Apr			May - June			Oct - Dec		
Water years	Median	10% exceed	80% exceed	Median	10% exceed	80% exceed	Median	10% exceed	80% exceed
NAA									
Wet	54.8	62.7	51.3	66.5	72.1	63.4	66.5	72.1	63.4
Above Normal	54.7	62.7	51.1	69.2	75.2	64.2	69.2	75.2	64.2
Below Normal	58.3	64.2	52.9	75.0	78.7	66.1	75.0	78.7	66.1
Dry	56.8	65.2	49.9	73.2	79.6	66.8	73.2	79.6	66.8
Critically Dry	57.7	67.1	50.1	73.3	79.2	69.7	73.3	79.2	69.7
Alternative A2									
Wet	54.8	62.7	51.3	66.5	72.1	63.4	66.5	72.1	63.4
Above Normal	54.7	63.1	51.1	69.2	75.2	64.2	69.2	75.2	64.2
Below Normal	58.5	64.4	53.0	74.9	78.7	66.0	74.9	78.7	66.0
Dry	56.8	65.9	49.9	73.2	79.6	66.8	73.2	79.6	66.8
Critically Dry	57.8	67.8	50.1	73.5	79.3	69.8	73.5	79.3	69.8
Alternative B2									
Wet	54.8	62.7	51.3	66.5	72.1	63.4	66.5	72.1	63.4
Above Normal	54.7	63.1	51.1	69.4	75.6	64.3	69.4	75.6	64.3
Below Normal	58.5	64.4	53.0	75.0	79.0	66.0	75.0	79.0	66.0
Dry	56.8	65.9	49.9	73.2	79.7	66.8	73.2	79.7	66.8
Critically Dry	57.8	67.8	50.1	73.5	79.3	69.8	73.5	79.3	69.8
Alternative C									
Wet	54.8	62.7	51.3	66.5	72.1	63.5	66.5	72.1	63.5
Above Normal	54.7	63.1	51.1	69.4	75.6	64.3	69.4	75.6	64.3
Below Normal	58.5	64.5	53.0	75.1	79.1	66.1	75.1	79.1	66.1
Dry	56.8	65.9	49.9	73.3	79.7	66.8	73.3	79.7	66.8
Critically Dry	57.8	67.9	50.1	73.5	79.3	69.8	73.5	79.3	69.8
Alternative D									
Wet	54.8	62.7	51.3	66.5	72.1	63.5	66.5	72.1	63.5
Above Normal	54.7	63.1	51.1	69.4	75.6	64.3	69.4	75.6	64.3
Below Normal	58.5	64.6	53.0	75.1	79.1	66.1	75.1	79.1	66.1
Dry	56.8	66.0	49.9	73.3	79.7	66.8	73.3	79.7	66.8
Critically Dry	57.9	68.1	50.1	73.6	79.3	70.2	73.6	79.3	70.2

NAA = No-Action Alternative

Table H2-101
Water Temperature Difference (°F) between Alternatives A2, B2, C, D and No-Action Alternative
Median, 20 and 80 percent Exceedances
San Joaquin River at Vernalis (1980-2003)

	Jan - Apr			May - June			Oct - Dec		
Water years	Median	10% exceed	80% exceed	Median	10% exceed	80% exceed	Median	10% exceed	80% exceed
Alternative A2									
Wet	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.05	-0.02
Above Normal	0.00	0.35	0.00	0.00	0.00	0.00	-0.01	0.00	-0.03
Below Normal	0.01	1.18	0.00	0.00	0.00	-0.04	0.00	0.00	0.00
Dry	0.00	1.13	0.00	0.00	0.03	0.00	0.00	0.00	-0.01
Critically Dry	0.00	0.68	0.00	0.00	0.44	-0.01	-0.02	0.00	-0.05
Alternative B2									
Wet	0.00	0.01	0.00	0.00	0.01	-0.01	0.00	0.03	-0.01
Above Normal	0.00	0.35	0.00	0.00	1.99	-0.04	0.00	0.00	-0.01
Below Normal	0.01	1.17	0.00	0.00	0.21	-0.04	0.00	0.00	0.00
Dry	0.00	1.14	0.00	0.00	0.12	0.00	0.00	0.01	0.00
Critically Dry	0.00	0.73	0.00	0.00	0.44	-0.01	-0.01	0.00	-0.03
Alternative C									
Wet	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	-0.01
Above Normal	0.00	0.35	0.00	0.00	1.98	-0.04	0.00	0.01	-0.01
Below Normal	0.12	1.17	0.00	0.13	0.33	-0.04	0.00	0.00	0.00
Dry	0.00	1.13	0.00	0.00	0.18	0.00	0.00	0.01	0.00
Critically Dry	0.00	0.96	0.00	0.00	0.48	0.00	0.00	0.00	-0.02
Alternative D									
Wet	0.00	0.01	-0.01	0.00	0.01	-0.01	0.00	0.06	-0.02
Above Normal	0.00	0.35	0.00	0.00	1.99	-0.04	0.00	0.01	-0.01
Below Normal	0.17	1.19	0.00	0.13	0.33	-0.06	0.00	0.00	0.00
Dry	0.00	1.18	0.00	0.01	0.21	0.00	0.00	0.01	0.00
Critically Dry	0.00	1.22	0.00	0.14	0.95	0.00	-0.01	0.00	-0.05

Table H2-102
TSS concentrations and severity of ill effect scores at selected locations on the San Joaquin River for representative water years

Description of Alternative Plans				TSS Concentration (mg/L)						SEV Scores					
Water Year	Representative Year	Month	Alternative	TSS Conc. in SJR at NWW Mouth	TSS Conc. Below Confluence of NWW (100 ft)	TSS Conc. Above Merced Confluence (6,500 ft)	TSS Conc. Below Confluence of Merced (7,000 ft)	TSS Conc. at Tuolumne River (165,000 ft)	TSS Conc. Fully Mixed after Merced	SEV Scores in SJR at NWW Mouth	SEV Scores Below Confluence of NWW (100 ft)	SEV Scores Above Merced Confluence (6,500 ft)	SEV Scores Below Confluence of Merced (7,000 ft)	SEV Scores at Tuolumne River (165,000 ft)	SEV Scores Fully Mixed after Merced
Wet	1993	March	NAA,A1,A2	58	58	58	49	47	47	8.1	8.1	8.1	8.0	7.9	7.9
			B1,B2	101	90	70	60	49	60	8.5	8.4	8.2	8.1	8.0	8.1
			C	103	95	74	64	50	65	8.5	8.4	8.3	8.1	8.0	8.2
			D	103	95	74	64	50	65	8.5	8.4	8.3	8.1	8.0	8.2
		April 1-15	NAA,A1,A2,B1,B2	71	71	71	70	70	70	7.8	7.8	7.8	7.8	7.8	7.8
			C	122	121	112	112	86	114	8.2	8.2	8.1	8.1	7.9	8.1
			D	122	121	112	112	86	114	8.2	8.2	8.1	8.1	7.9	8.1
		May 16-31	NAA,A1,A2,B1,B2	79	79	79	70	70	70	7.9	7.9	7.9	7.8	7.8	7.8
			C,D	118	113	96	88	74	93	8.2	8.2	8.0	8.0	7.9	8.0
Above Normal	1963	Feb	NAA,A1,A2,B1,B2	60	60	60	52	50	50	8.0	8.0	8.0	7.9	7.9	7.9
			C	104	96	76	66	52	67	8.4	8.4	8.2	8.1	7.9	8.1
			D	104	96	76	66	52	67	8.4	8.4	8.2	8.1	7.9	8.1
		March	NAA	58	58	58	43	39	39	8.1	8.1	8.1	7.9	7.8	7.8
			A1,B1	116	114	98	81	49	82	8.6	8.6	8.5	8.3	8.0	8.3
			A2,B2,C	116	114	98	81	49	82	8.6	8.6	8.5	8.3	8.0	8.3
			D	116	114	97	81	49	82	8.6	8.6	8.5	8.3	8.0	8.3
		May 16-31	NAA,A1,A2,B1,B2	79	79	79	61	58	58	7.9	7.9	7.9	7.7	7.7	7.7
			C	119	117	104	90	66	92	8.2	8.2	8.1	8.0	7.8	8.0
			D	119	117	104	90	66	92	8.2	8.2	8.1	8.0	7.8	8.0
		June	NAA,A1,A2	100	100	100	64	54	54	8.5	8.5	8.5	8.1	8.0	8.0
			B1,B2,C,D	126	125	118	92	62	91	8.6	8.6	8.6	8.4	8.1	8.4
Below Normal	2003	Feb	NAA	60	60	60	48	45	45	8.0	8.0	8.0	7.9	7.8	7.8
			A1,A2	113	109	88	73	51	77	8.5	8.5	8.3	8.2	7.9	8.2
			B1	114	109	89	74	52	78	8.5	8.5	8.3	8.2	7.9	8.2
			B2,C,D	115	112	92	78	53	82	8.5	8.5	8.4	8.2	8.0	8.3
		March	NAA,A1,A2,B1,B2	58	58	58	44	43	43	8.1	8.1	8.1	7.9	7.9	7.9
			C	116	113	93	78	51	83	8.6	8.6	8.4	8.3	8.0	8.3
			D	117	114	95	80	52	85	8.6	8.6	8.4	8.3	8.0	8.4
		April 1-15	NAA,A1,A2,B1,B2	71	71	71	55	54	54	7.8	7.8	7.8	7.6	7.6	7.6
			C	123	122	111	100	69	105	8.2	8.2	8.1	8.0	7.8	8.1
			D	123	122	111	100	69	105	8.2	8.2	8.1	8.0	7.8	8.1
		May 16-31	NAA,A1,A2,B1,B2	79	79	79	56	52	52	7.9	7.9	7.9	7.6	7.6	7.6
			C	120	117	102	81	58	85	8.2	8.2	8.1	7.9	7.7	8.0
			D	120	117	102	81	58	85	8.2	8.2	8.1	7.9	7.7	8.0
		June	NAA,A1,A2	100	100	100	72	70	70	8.5	8.5	8.5	8.2	8.2	8.2
			B1,B2	126	124	115	95	77	100	8.6	8.6	8.6	8.4	8.3	8.5
			C,D	128	127	122	109	83	111	8.6	8.6	8.6	8.5	8.3	8.5

Table H2-102
TSS concentrations and severity of ill effect scores at selected locations on the San Joaquin River for representative water years (cont.)

Description of Alternative Plans				TSS Concentration (mg/L)						SEV Scores					
Water Year	Representative Year	Month	Alternative	TSS Conc. in SJR at NWW Mouth	TSS Conc. Below Confluence of NWW (100 ft)	TSS Conc. Above Merced Confluence (6,500 ft)	TSS Conc. Below Confluence of Merced (7,000 ft)	TSS Conc. at Tuolumne River (165,000 ft)	TSS Conc. Fully Mixed after Merced	SEV Scores in SJR at NWW Mouth	SEV Scores Below Confluence of NWW (100 ft)	SEV Scores Above Merced Confluence (6,500 ft)	SEV Scores Below Confluence of Merced (7,000 ft)	SEV Scores at Tuolumne River (165,000 ft)	SEV Scores Fully Mixed after Merced
Dry	2002	Feb	NAA	60	60	60	48	45	45	8.0	8.0	8.0	7.9	7.8	7.8
			A1,A2,B1	112	107	86	71	51	75	8.5	8.5	8.3	8.2	7.9	8.2
			B2,C,D	112	107	86	71	51	75	8.5	8.5	8.3	8.2	7.9	8.2
		March	NAA,A1,A2	58	58	58	46	44	44	8.1	8.1	8.1	7.9	7.9	7.9
			B1,B2,C,D	112	107	85	71	50	76	8.6	8.5	8.4	8.2	8.0	8.3
		April 1-15	NAA,A1,A2,B1,B2	71	71	71	55	55	55	7.8	7.8	7.8	7.6	7.6	7.6
			C	126	125	117	109	78	113	8.2	8.2	8.2	8.1	7.9	8.1
			D	126	125	118	111	79	114	8.2	8.2	8.2	8.1	7.9	8.1
		May 16-31	NAA,A1,A2,B1,B2	79	79	79	53	49	49	7.9	7.9	7.9	7.6	7.5	7.5
			C	122	120	105	82	57	88	8.2	8.2	8.1	7.9	7.7	8.0
			D	122	120	106	83	58	89	8.2	8.2	8.1	7.9	7.7	8.0
		June	NAA,A1,A2	100	100	100	68	66	66	8.5	8.5	8.5	8.2	8.2	8.2
			B1,B2,C,D	125	123	112	86	70	92	8.6	8.6	8.5	8.3	8.2	8.4
Critical	1992	March	NAA,A1,A2,B1,B2,C	58	58	58	43	40	40	8.1	8.1	8.1	7.9	7.8	7.8
			D	114	109	86	67	45	72	8.6	8.5	8.4	8.2	7.9	8.2
		April 1-15	NAA	71	71	71	48	45	45	7.8	7.8	7.8	7.5	7.4	7.4
			A1,B1	116	111	87	62	49	69	8.1	8.1	7.9	7.7	7.5	7.8
			A2,B2,C	123	121	107	86	56	93	8.2	8.2	8.1	7.9	7.6	8.0
			D	123	121	107	85	56	93	8.2	8.2	8.1	7.9	7.6	8.0
		April 16-30	NAA,A1,A2,B1,B2	71	71	71	48	45	45	7.8	7.8	7.8	7.5	7.5	7.5
			C,D	123	121	107	86	56	93	8.2	8.2	8.1	8.0	7.6	8.0
		May 1-15	NAA,A1,A2	79	79	79	52	50	50	7.9	7.9	7.9	7.6	7.5	7.5
			B1,B2	124	122	108	85	60	95	8.2	8.2	8.1	7.9	7.7	8.0
			C,D	124	122	109	87	61	96	8.2	8.2	8.1	7.9	7.7	8.0
		May 16-31	NAA,A1,B1	79	79	79	52	50	50	7.9	7.9	7.9	7.6	7.6	7.6
			A2,B2,C	124	123	110	89	62	97	8.2	8.2	8.1	8.0	7.7	8.1
			D	124	123	110	88	62	97	8.2	8.2	8.1	8.0	7.7	8.1
		June	NAA	100	100	100	66	63	63	8.5	8.5	8.5	8.2	8.1	8.1
			A1,A2,B1,B2,C,D	124	121	109	76	66	84	8.6	8.6	8.5	8.3	8.2	8.3
		Oct	NAA,A1,A2,B1,B2,C	80	80	80	49	44	44	8.3	8.3	8.3	8.0	7.9	7.9
			D	120	116	95	61	47	68	8.6	8.6	8.4	8.1	7.9	8.2

NAA = No-Action Alternative

Table H2-103

Average Flow (cfs) in the Stanislaus River below Goodwin Dam when Recirculation is Occurring for Alternative A1

Alternative A1

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											239			
Above Normal					112	192	278				222			
Below Normal					266	296								
Dry					248	270	393			258	222			
Critically Dry						560	399			396	222			
All					231	271	379			327	224			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											239			
Above Normal					112	192	278				222			
Below Normal					266	296								
Dry					248	270	393			258	222			
Critically Dry						560	399			396	222			
All					231	271	379			327	224			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											0			
Above Normal					0	0	0				0			
Below Normal					0	0								
Dry					0	0	0			0	0			
Critically Dry						0	0			0	0			
All					0	0	0			0	0			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											0.0%			
Above Normal					0.0%	0.0%	0.0%				0.0%			
Below Normal					0.0%	0.0%								
Dry					0.0%	0.0%	0.0%			0.0%	0.0%			
Critically Dry						0.0%	0.0%			0.0%	0.0%			
All					0.0%	0.0%	0.0%			0.0%	0.0%			

Table H2-104

Average Flow (cfs) in the Stanislaus River below Goodwin Dam when Recirculation is Occurring for Alternative A2

Alternative A2

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											240			
Above Normal					113	357	278				222			
Below Normal					254	317								
Dry					222	229	393			258	222			
Critically Dry					182	508	242			277	222			
All					210	328	291			273	224			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											239			
Above Normal					112	359	278				222			
Below Normal					343	436								
Dry					233	270	393			258	222			
Critically Dry					274	560	376			370	222			
All					263	367	372			347	224			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											1			
Above Normal					0	-2	0				0			
Below Normal					-89	-120								
Dry					-11	-41	0			0	0			
Critically Dry					-92	-52	-135			-93	0			
All					-54	-39	-81			-74	0			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet											0.3%			
Above Normal					0.3%	-0.7%	0.0%				0.0%			
Below Normal					-26.0%	-27.4%								
Dry					-4.9%	-15.2%	0.0%			0.0%	0.0%			
Critically Dry					-33.7%	-9.3%	-35.8%			-25.1%	0.0%			
All					-20.4%	-10.6%	-21.8%			-21.4%	0.0%			

Table H2-105

Alternative B1

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						126					239			
Above Normal					112	192	278			256	438			
Below Normal					266	296				411	222			
Dry					248	244	393			277	222			
Critically Dry						560	399	563	580	396	222			
All					231	248	379	563	580	356	309			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						126					239			
Above Normal					112	192	278			256	438			
Below Normal					266	296				411	222			
Dry					248	244	393			277	222			
Critically Dry						560	399	563	580	396	222			
All					231	248	379	563	580	356	309			

Difference between Alternative and No-Action Alternative

[illegible]

Percent change between Alternative and No-Action Alternative

[illegible]

Table H2-106

Average Flow (cfs) in the Stanislaus River below Goodwin Dam when Recirculation is Occurring for Alternative B2

Alternative B2

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						127					590			
Above Normal					113	357	278			256	526			
Below Normal					254	317				437	222			
Dry					222	213	393			277	222			
Critically Dry					182	508	242	612	654	277	222			
All					210	300	291	612	654	333	416			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						126					749			
Above Normal					112	359	278			256	686			
Below Normal					343	436				411	222			
Dry					233	244	393			277	222			
Critically Dry					274	560	376	609	651	370	222			
All					263	333	372	609	651	358	515			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						1					-160			
Above Normal					0	-2	0			0	-161			
Below Normal					-90	-120				26	0			
Dry					-12	-31	0			0	0			
Critically Dry					-92	-52	-135	3	3	-93	0			
All					-54	-33	-81	3	3	-24	-99			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet						0.9%					-21.3%			
Above Normal					0.3%	-0.7%	0.0%			0.0%	-23.4%			
Below Normal					-26.1%	-27.4%				6.2%	0.0%			
Dry					-5.1%	-12.7%	0.0%			0.0%	0.0%			
Critically Dry					-33.7%	-9.3%	-35.8%	0.5%	0.5%	-25.1%	0.0%			
All					-20.5%	-9.8%	-21.7%	0.5%	0.5%	-6.8%	-19.3%			

Table H2-107

Average Flow (cfs) in the Stanislaus River below Goodwin Dam when Recirculation is Occurring for Alternative C

Alternative C

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet					295	127	877			887	590			
Above Normal					125	219	855		1,500	298	511			
Below Normal					229	289	446		1,500	385	323			
Dry					244	233	385			295	223			
Critically Dry					182	508	242	553	601	277	222			
All					215	254	444	553	826	387	381			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet					291	126	890			887	749			
Above Normal					125	359	889		1,500	298	709			
Below Normal					295	380	425		1,500	368	344			
Dry					293	252	384			293	223			
Critically Dry					274	560	376	548	597	370	222			
All					267	327	479	548	823	401	477			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet					4	1	-13			0	-159			
Above Normal					1	-140	-35		0	1	-198			
Below Normal					-67	-91	21		0	18	-22			
Dry					-49	-19	1			2	0			
Critically Dry					-92	-52	-135	5	5	-93	0			
All					-52	-73	-35	5	3	-14	-96			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet					1.5%	0.9%	-1.4%			0.0%	-21.3%			
Above Normal					0.4%	-38.9%	-3.9%		0.0%	0.2%	-28.0%			
Below Normal					-22.6%	-23.8%	4.8%		0.0%	4.8%	-6.3%			
Dry					-16.6%	-7.4%	0.2%			0.5%	0.0%			
Critically Dry					-33.7%	-9.3%	-35.8%	0.8%	0.8%	-25.1%	0.0%			
All					-19.5%	-22.3%	-7.2%	0.8%	0.4%	-3.6%	-20.1%			

Table H2-108

Average Flow (cfs) in the Stanislaus River below Goodwin Dam when Recirculation is Occurring for Alternative D

Alternative D

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	337				298	129	878			888	616			
Above Normal					126	221	855		1,500	300	511			
Below Normal					229	267	439		1,500	395	324			
Dry					246	198	375			303	223			
Critically Dry					156	156	255	559	608	254	222			
All	337				204	205	415	559	831	348	383			

No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	338				291	126	890			887	749			
Above Normal					125	359	889		1,500	298	709			
Below Normal					295	356	425		1,500	368	344			
Dry					293	242	384			307	223			
Critically Dry					225	347	369	548	597	343	222			
All	338				254	314	461	548	823	380	477			

Difference between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	-2				7	3	-12			1	-133			
Above Normal					1	-138	-35		0	2	-198			
Below Normal					-67	-89	14		0	28	-21			
Dry					-47	-43	-9			-4	0			
Critically Dry					-69	-190	-113	11	11	-89	0			
All	-2				-49	-110	-46	11	8	-32	-94			

Percent change between Alternative and No-Action Alternative

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun	Jul	Aug	Sep
Wet	-0.5%				2.3%	2.4%	-1.4%			0.1%	-17.8%			
Above Normal					1.0%	-38.4%	-3.9%		0.0%	0.7%	-28.0%			
Below Normal					-22.5%	-25.0%	3.2%		0.0%	7.5%	-6.0%			
Dry					-16.1%	-17.9%	-2.3%			-1.3%	0.0%			
Critically Dry					-30.7%	-54.9%	-30.7%	2.0%	1.9%	-26.0%	0.0%			
All	-0.5%				-19.4%	-34.9%	-9.9%	2.0%	1.0%	-8.4%	-19.7%			

Table H2-109
Median, 90th Percentile, and 20th Percentile Water Temperature (degree Fahrenheit)
for Alternatives A2, B2, C, D and No-Action Alternative at Stanislaus River at Orange Blossom Bridge
1980-2003

	Jan - Apr			May - June			July - Sept			Oct - Dec		
Water years	Median	90th Percentile	20th Percentile	Median	90th Percentile	20th Percentile	Median	90th Percentile	20th Percentile	Median	90th Percentile	20th Percentile
NAA												
Wet	50.4	54.0	48.4	54.0	57.8	52.3	58.3	62.9	54.7	53.0	58.0	50.3
Above Normal	51.7	55.0	49.8	55.8	59.1	54.3	61.1	64.0	59.3	53.7	56.3	51.4
Below Normal	52.6	55.8	50.4	60.8	65.0	55.2	62.3	65.2	60.4	53.3	56.5	51.3
Dry	51.1	55.5	48.2	59.2	64.6	55.0	61.4	64.7	59.5	52.2	56.9	49.8
Critically Dry	52.1	56.9	48.1	60.4	65.0	57.2	63.4	67.7	61.2	53.9	59.3	50.8
Alternative A2												
Wet	50.4	54.0	48.4	54.1	57.7	52.3	58.3	62.7	54.7	53.1	58.4	50.3
Above Normal	51.7	55.0	49.8	55.8	59.1	54.3	61.0	64.0	59.3	53.6	56.2	51.4
Below Normal	52.8	55.9	50.3	60.8	64.9	55.2	62.2	65.2	60.4	53.3	56.5	51.2
Dry	51.1	55.5	48.2	59.2	64.6	55.0	61.4	64.7	59.5	52.2	56.9	49.8
Critically Dry	52.2	57.1	48.1	60.6	65.2	57.2	63.1	66.4	61.0	53.6	58.7	50.7
Alternative B2												
Wet	50.4	53.9	48.4	54.1	57.7	52.3	58.3	62.8	54.7	53.1	58.8	50.4
Above Normal	51.7	54.7	49.8	55.8	59.1	54.3	61.0	64.0	59.3	53.7	56.2	51.4
Below Normal	52.8	55.8	50.3	60.8	64.9	55.2	62.3	65.2	60.4	53.3	56.5	51.2
Dry	51.1	55.5	48.2	59.2	64.6	55.0	61.4	64.7	59.5	52.3	56.9	49.9
Critically Dry	52.2	57.1	48.1	60.7	65.3	57.3	63.3	66.9	61.1	53.8	59.0	50.8
Alternative C												
Wet	50.4	53.9	48.4	54.1	57.8	52.3	58.3	62.9	54.7	53.0	58.1	50.3
Above Normal	51.7	54.7	49.8	55.8	59.1	54.3	61.0	64.0	59.3	53.7	56.3	51.4
Below Normal	52.8	55.8	50.3	60.8	64.9	55.2	62.3	65.2	60.4	53.3	56.6	51.3
Dry	51.1	55.5	48.2	59.2	64.6	55.0	61.4	64.7	59.5	52.3	56.9	49.9
Critically Dry	52.2	57.1	48.1	60.7	65.3	57.3	63.3	67.1	61.1	53.8	59.1	50.8
Alternative D												
Wet	50.4	53.9	48.4	54.1	57.7	52.3	58.3	62.7	54.7	53.1	58.4	50.4
Above Normal	51.7	54.7	49.8	55.8	59.1	54.3	61.0	64.0	59.3	53.7	56.3	51.4
Below Normal	52.9	56.3	50.3	60.8	64.9	55.2	62.3	65.2	60.4	53.3	56.5	51.3
Dry	51.1	55.6	48.2	59.3	64.6	55.0	61.4	64.7	59.5	52.3	56.9	49.9
Critically Dry	52.5	58.0	48.1	60.9	65.3	57.6	63.1	66.5	61.0	53.7	58.8	50.8

NAA = No-Action Alternative

Table H2-110
Water Temperature Difference (°F) between Alternatives A2, B2, C, D and No-Action Alternative
Median, 90th Percentile, and 20th Percentile
Stanislaus River at Orange Blossom Bridge (1980-2003)

	Jan - Apr			May - June			July - Sept			Oct - Dec		
Water years	Median	90th Percentile	20th Percentile	Median	90th Percentile	20th Percentile	Median	90th Percentile	20th Percentile	Median	90th Percentile	20th Percentile
Alternative A2												
Wet	0.02	0.09	-0.01	0.01	0.05	-0.01	-0.02	0.01	-0.07	-0.04	1.08	-0.12
Above Normal	0.01	0.02	-0.01	0.00	0.01	-0.01	-0.02	-0.01	-0.03	-0.06	-0.02	-0.15
Below Normal	0.01	0.44	-0.01	-0.02	-0.01	-0.04	-0.04	-0.03	-0.04	-0.03	-0.02	-0.03
Dry	0.00	0.00	-0.02	0.00	0.01	-0.04	-0.01	0.00	-0.05	-0.04	-0.01	-0.04
Critically Dry	-0.02	0.32	-0.07	-0.03	0.23	-0.05	-0.12	-0.04	-0.75	-0.18	-0.03	-0.69
Alternative B2												
Wet	0.00	0.05	-0.04	0.03	0.06	-0.08	0.00	0.05	-0.07	0.00	0.59	-0.06
Above Normal	0.01	0.03	-0.09	0.02	0.38	0.01	0.00	0.02	-0.05	-0.03	0.01	-0.06
Below Normal	0.00	0.44	-0.01	-0.02	-0.01	-0.04	-0.03	-0.02	-0.03	0.00	0.00	-0.01
Dry	0.01	0.02	0.00	0.00	0.01	0.00	0.00	0.01	-0.01	0.01	0.05	-0.01
Critically Dry	-0.01	0.31	-0.04	-0.02	0.25	-0.04	-0.06	-0.02	-0.39	-0.08	0.00	-0.35
Alternative C												
Wet	0.01	0.04	-0.03	0.03	0.06	-0.01	0.01	0.07	-0.05	0.01	0.04	-0.04
Above Normal	0.00	0.03	-0.09	0.02	0.37	0.00	0.01	0.03	-0.05	0.00	0.02	-0.05
Below Normal	0.00	0.44	-0.01	-0.02	-0.01	-0.04	-0.01	-0.01	-0.01	0.00	0.01	0.00
Dry	0.01	0.03	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.01	0.08	0.00
Critically Dry	0.00	0.32	-0.03	-0.01	0.25	-0.03	-0.04	-0.01	-0.25	-0.04	-0.01	-0.22
Alternative D												
Wet	0.01	0.08	-0.04	0.02	0.10	-0.05	0.00	0.09	-0.16	0.01	1.11	-0.10
Above Normal	0.00	0.02	-0.09	0.02	0.38	0.00	0.01	0.03	-0.04	-0.02	0.03	-0.05
Below Normal	0.10	0.76	0.00	-0.03	-0.01	-0.06	-0.02	-0.02	-0.03	0.00	0.00	0.00
Dry	0.01	0.03	0.00	0.00	0.03	0.00	0.00	0.02	0.00	0.01	0.08	0.00
Critically Dry	0.00	1.97	-0.06	0.00	1.27	-0.11	-0.12	-0.01	-0.74	-0.11	0.00	-0.58

Table H2-111
Median, 90th Percentile, and 20th Percentile Water Temperature (degree Fahrenheit) for
Alternatives A2, B2, C, D and No-Action Alternative at Stanislaus River at Riverbank
1980-2003

	Jan - Apr			May - June			July - Sept			Oct - Dec		
Water years	Median	90th Percentile	20th Percentile	Median	90th Percentile	20th Percentile	Median	90th Percentile	20th Percentile	Median	90th Percentile	20th Percentile
NAA												
Wet	51.4	56.4	48.9	56.8	62.8	54.7	64.6	70.4	57.3	53.5	60.1	49.8
Above Normal	53.0	56.9	49.8	58.7	63.6	56.7	67.4	71.1	65.1	54.1	57.8	51.0
Below Normal	54.4	59.5	51.0	68.5	72.6	57.9	69.1	73.2	66.7	53.8	59.0	51.1
Dry	53.2	58.5	48.1	65.0	72.7	57.7	68.5	72.5	65.6	52.5	58.7	49.4
Critically Dry	54.4	60.7	48.4	66.5	72.7	61.6	70.1	73.8	67.4	54.2	61.4	50.0
Alternative A2												
Wet	51.4	56.4	48.9	56.9	62.7	54.7	64.4	70.3	57.2	53.6	60.2	49.7
Above Normal	53.0	56.9	49.8	58.7	63.6	56.7	67.4	71.1	65.1	54.0	57.8	50.9
Below Normal	54.8	59.5	51.0	68.5	72.6	57.8	69.1	73.2	66.7	53.8	59.0	51.0
Dry	53.2	58.5	48.1	65.0	72.7	57.7	68.4	72.5	65.6	52.5	58.7	49.4
Critically Dry	54.5	61.2	48.4	67.1	73.1	61.7	69.8	73.5	67.2	54.0	60.9	49.8
Alternative B2												
Wet	51.4	56.4	48.9	56.8	62.7	54.7	64.5	70.3	57.3	53.6	60.4	49.8
Above Normal	52.9	56.6	49.8	58.9	63.7	56.8	67.4	71.1	65.1	54.1	57.8	50.9
Below Normal	54.8	59.5	51.0	68.5	72.6	57.8	69.1	73.2	66.7	53.8	59.0	51.1
Dry	53.2	58.5	48.1	65.0	72.7	57.7	68.5	72.5	65.6	52.6	58.7	49.4
Critically Dry	54.5	61.2	48.4	67.1	73.1	61.7	69.9	73.6	67.3	54.1	61.2	49.9
Alternative C												
Wet	51.4	56.4	48.9	56.8	62.7	54.7	64.5	70.3	57.3	53.5	60.4	49.8
Above Normal	52.9	56.6	49.8	58.9	63.7	56.8	67.4	71.1	65.1	54.1	57.8	50.9
Below Normal	54.8	59.5	51.0	68.5	72.6	57.8	69.1	73.2	66.7	53.8	59.1	51.1
Dry	53.2	58.5	48.1	65.0	72.7	57.7	68.5	72.5	65.6	52.6	58.7	49.4
Critically Dry	54.5	61.2	48.4	67.1	73.1	61.7	70.0	73.7	67.4	54.1	61.3	49.9
Alternative D												
Wet	51.3	56.4	48.9	56.8	62.6	54.7	64.4	70.3	57.3	53.6	60.2	49.8
Above Normal	52.9	56.6	49.8	58.9	63.7	56.8	67.5	71.1	65.1	54.1	57.8	50.9
Below Normal	55.0	60.5	51.0	68.5	72.6	57.8	69.1	73.2	66.7	53.8	59.0	51.1
Dry	53.2	58.6	48.1	65.1	72.7	57.7	68.5	72.5	65.6	52.6	58.7	49.4
Critically Dry	55.1	62.8	48.4	67.3	73.1	62.2	69.8	73.5	67.2	54.0	61.0	49.9

NAA = No-Action Alternative

Table H2-112
Water Temperature Difference (°F) between Alternatives A2, B2, C, D and No-Action Alternative
Median, 90th Percentile, and 20th Percentile
Stanislaus River at Riverbank (1980-2003)

	Jan - Apr			May - June			July - Sept			Oct - Dec		
Water years	Median	90th Percentile	20th Percentile	Median	90th Percentile	20th Percentile	Median	90th Percentile	20th Percentile	Median	90th Percentile	20th Percentile
Alternative A2												
Wet	0.01	0.06	-0.02	0.01	0.04	-0.01	-0.02	0.01	-0.09	-0.03	0.77	-0.10
Above Normal	0.01	0.02	-0.01	0.00	0.01	-0.01	-0.02	-0.01	-0.02	-0.05	-0.02	-0.15
Below Normal	0.01	0.78	0.00	-0.03	-0.01	-0.06	-0.02	-0.02	-0.03	-0.02	-0.01	-0.03
Dry	0.00	0.00	-0.01	0.00	0.00	-0.02	-0.01	0.00	-0.03	-0.03	-0.01	-0.04
Critically Dry	-0.02	0.56	-0.05	-0.02	0.44	-0.06	-0.07	-0.02	-0.45	-0.14	-0.03	-0.51
Alternative B2												
Wet	0.00	0.04	-0.04	0.02	0.05	-0.07	0.00	0.03	-0.09	0.00	0.41	-0.06
Above Normal	0.01	0.03	-0.09	0.01	0.95	0.00	-0.01	0.01	-0.03	-0.03	0.01	-0.05
Below Normal	0.00	0.78	0.00	-0.03	-0.01	-0.05	-0.01	-0.01	-0.02	0.00	0.01	0.00
Dry	0.01	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.05	-0.01
Critically Dry	-0.01	0.56	-0.03	-0.01	0.45	-0.05	-0.03	-0.01	-0.24	-0.06	0.00	-0.26
Alternative C												
Wet	0.00	0.03	-0.03	0.01	0.05	-0.02	0.01	0.05	-0.08	0.01	0.03	-0.05
Above Normal	0.00	0.02	-0.10	0.01	0.94	-0.01	0.00	0.01	-0.03	0.00	0.02	-0.04
Below Normal	0.00	0.78	0.00	-0.03	-0.01	-0.05	-0.01	-0.01	-0.01	0.00	0.01	0.00
Dry	0.01	0.03	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.07	0.00
Critically Dry	0.00	0.57	-0.03	-0.01	0.46	-0.04	-0.02	0.00	-0.16	-0.03	0.00	-0.17
Alternative D												
Wet	0.00	0.07	-0.07	0.01	0.09	-0.04	0.00	0.06	-0.22	0.00	0.83	-0.11
Above Normal	0.00	0.02	-0.10	0.02	0.95	0.00	0.00	0.01	-0.03	-0.01	0.03	-0.04
Below Normal	0.27	1.18	0.00	-0.04	-0.01	-0.07	-0.01	-0.01	-0.02	0.00	0.00	0.00
Dry	0.01	0.03	0.00	0.00	0.03	0.00	0.00	0.01	0.00	0.01	0.07	0.00
Critically Dry	0.00	3.47	-0.06	0.00	2.08	-0.06	-0.06	0.00	-0.44	-0.09	0.00	-0.43