

## **Appendix 21**

# **Recreation Resources**

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Line items and numbers identified or noted as “No Action Alternative” represent the “Existing Conditions/No Project/No Action Condition” (described in Chapter 2 Alternatives Analysis).  
Table numbering may not be consecutive for all appendixes.

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- 21A Impact of Sites Reservoir Project Operations on Recreation-Day Benefit Values
- 21B Impact of Sites Reservoir Project Operations on Usability of Reservoir Boat Ramps

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## **Appendix 21A**

# **Impact of Sites Reservoir Project Operations on Recreation-Day Benefit Values**

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Line items and numbers identified or noted as “No Action Alternative” represent the “Existing Conditions/No Project/No Action Condition” (described in Chapter 2 Alternatives Analysis).  
Table numbering may not be consecutive for all appendixes.

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## Sites Reservoir Project Operations Impacts on Recreation-Day Benefit Values

Table 21A-1

**San Luis Reservoir Recreation-Day Benefit Values with Sites Reservoir Operations<sup>a</sup>**

<b>San Luis Reservoir</b>		<b>April-Sept Average Surface Area<sup>b</sup></b>	<b>Surface Area Ratio</b>	<b>Benefit Value Points</b>
<b>Maximum Water Elevation (feet) =</b>	<b>544</b>			
<b>Maximum Water Elevation Surface Area (acres) =</b>	<b>12,700</b>			
Existing Conditions/No Project/No Action Condition		8,742	0.688	4.0
Alternative A		8,704	0.685	3.5
Alternative B		8,723	0.687	4.0
Alternative C		8,628	0.679	3.0
Alternative D		8,721	0.687	4.0

<sup>a</sup>Reservoir operation portion of the recreation-day benefit value obtained from Project Operations – Reservoir Point Rating Graph from California Department of Parks and Recreation (California State Parks). 1967 (with Revisions to 1971). Water Project Recreation Planning Manual. Measurement of Benefits, Sections 6400 6411.14.

<sup>b</sup>Average end-of-month surface area in acres.

Table 21A-2

**Trinity Lake Recreation-Day Benefit Values with Sites Reservoir Operations<sup>a</sup>**

<b>Trinity Lake</b>		<b>April-Sept Average Surface Area<sup>b</sup></b>	<b>Surface Area Ratio</b>	<b>Benefit Value Points</b>
<b>Maximum Water Elevation (feet) =</b>	<b>2,370</b>			
<b>Maximum Water Elevation Surface Area (acres) =</b>	<b>16,335</b>			
Existing Conditions/No Project/No Action Condition		12,386	0.758	13.0
Alternative A		12,590	0.771	15.0
Alternative B		12,603	0.772	15.0
Alternative C		12,636	0.774	16.0
Alternative D		12,429	0.761	13.5

<sup>a</sup>Reservoir operation portion of the recreation-day benefit value obtained from Project Operations – Reservoir Point Rating Graph from California Department of Parks and Recreation (California State Parks). 1967 (with Revisions to 1971). Water Project Recreation Planning Manual. Measurement of Benefits, Sections 6400 6411.14.

<sup>b</sup>Average end-of-month surface area in acres.

Table 21A-3

**Shasta Lake Recreation-Day Benefit Values with Sites Reservoir Operations<sup>a</sup>**

<b>Shasta Lake</b>		<b>April-Sept Average Surface Area<sup>b</sup></b>	<b>Surface Area Ratio</b>	<b>Benefit Value Points</b>
<b>Maximum Water Elevation (feet) =</b>	<b>1,067</b>			
<b>Maximum Water Elevation Surface Area (acres) =</b>	<b>29,740</b>			
Existing Conditions/No Project/No Action Condition		24,109	0.811	28.5
Alternative A		24,514	0.824	33.0
Alternative B		24,580	0.826	33.0
Alternative C		24,590	0.827	33.0
Alternative D		24,136	0.812	28.5

<sup>a</sup>Reservoir operation portion of the recreation-day benefit value obtained from Project Operations – Reservoir Point Rating Graph from California Department of Parks and Recreation (California State Parks). 1967 (with Revisions to 1971). Water Project Recreation Planning Manual. Measurement of Benefits, Sections 6400 6411.14.

<sup>b</sup> Average end-of-month surface area in acres.

**Table 21A-4**

**Lake Oroville Recreation-Day Benefit Values with Sites Reservoir Operations<sup>a</sup>**

<b>Lake Oroville</b>		<b>April-Sept Average Surface Area<sup>b</sup></b>	<b>Surface Area Ratio</b>	<b>Benefit Value Points</b>
<b>Maximum Water Elevation (feet) =</b>	<b>899</b>			
<b>Maximum Water Elevation Surface Area (acres) =</b>	<b>15,805</b>			
Existing Conditions/No Project/No Action Condition		12,232	0.774	16.0
Alternative A		12,345	0.781	18.0
Alternative B		12,349	0.781	18.0
Alternative C		12,330	0.780	18.0
Alternative D		12,416	0.786	19.5

<sup>a</sup>Reservoir operation portion of the recreation-day benefit value obtained from Project Operations – Reservoir Point Rating Graph from California Department of Parks and Recreation (California State Parks). 1967 (with Revisions to 1971). Water Project Recreation Planning Manual. Measurement of Benefits, Sections 6400 6411.14.

<sup>b</sup>Average end-of-month surface area in acres.

**Table 21A-5**

**Folsom Lake Recreation-Day Benefit Values with Sites Reservoir Operations<sup>a</sup>**

<b>Folsom Lake</b>		<b>April-Sept Average Surface Area<sup>b</sup></b>	<b>Surface Area Ratio</b>	<b>Benefit Value Points</b>
<b>Maximum Water Elevation (feet) =</b>	<b>456</b>			
<b>Maximum Water Elevation Surface Area (acres) =</b>	<b>11,450</b>			
Existing Conditions/No Project/No Action Condition		9,087	0.794	22.5
Alternative A		9,224	0.806	26.5
Alternative B		9,189	0.803	26.0
Alternative C		9,226	0.806	26.5
Alternative D		9,212	0.804	26.5

<sup>a</sup>Reservoir operation portion of the recreation-day benefit value obtained from Project Operations – Reservoir Point Rating Graph from California Department of Parks and Recreation (California State Parks). 1967 (with Revisions to 1971). Water Project Recreation Planning Manual. Measurement of Benefits, Sections 6400 6411.14.

<sup>b</sup>Average end-of-month surface area in acres.

**Table 21A-6**

**Sites Reservoir Recreation-Day Benefit Values<sup>a</sup>**

<b>Sites Reservoir</b>		<b>April-Sept Average Surface Area<sup>b</sup></b>	<b>Surface Area Ratio</b>	<b>Benefit Value Points</b>
<b>Maximum Water Elevation (feet) =</b>	<b>520</b>			
<b>Maximum Water Elevation Surface Area (acres) =</b>	<b>14,100</b>			
<b>Maximum Water Elevation (feet) =</b>	<b>480</b>			
<b>Maximum Water Elevation Surface Area (acres) =</b>	<b>12,400</b>			
Alternative A (480 feet)		10,099	0.814	30.0
Alternative B (520 feet)		11,046	0.783	19.0
Alternative C (520 feet)		12,021	0.853	39.5
Alternative D (520 feet)		11,865	0.841	37.0

<sup>a</sup>Reservoir operation portion of the recreation-day benefit value obtained from Project Operations – Reservoir Point Rating Graph from California Department of Parks and Recreation (California State Parks). 1967 (with Revisions to 1971). Water Project Recreation Planning Manual. Measurement of Benefits, Sections 6400 6411.14.

<sup>b</sup>Average end-of-month surface area in acres.

**Impact of Sites Reservoir Project Operations on Recreation-Day Benefit Values**

**Table 21A-7  
Reservoir Recreation-Day Benefit Values (Detailed Results)**

	April	May	June	July	August	September	Average	Ratio	Operation Points*
	(End of Month Surface Area)								
<b>SAN LUIS RESERVOIR</b>									
Existing Condition	10,866	9,788	8,246	7,886	7,698	8,166	8,775	#VALUE!	4.0
Alternative A	10,956	9,813	8,219	7,717	7,449	8,071	8,704	#VALUE!	3.5
Alternative B	10,979	9,845	8,212	7,719	7,447	8,134	8,723	#VALUE!	4.0
Alternative C	10,905	9,745	8,095	7,610	7,387	8,025	8,628	#VALUE!	3.0
Alternative D	10,965	9,833	8,215	7,727	7,472	8,114	8,721	#VALUE!	4.0
No Action Alternative	10,908	9,799	8,273	7,838	7,568	8,067	8,742	#VALUE!	4.0
Alternative A	10,956	9,813	8,219	7,717	7,449	8,071	8,704	#VALUE!	3.5
Alternative B	10,979	9,845	8,212	7,719	7,447	8,134	8,723	#VALUE!	4.0
Alternative C	10,905	9,745	8,095	7,610	7,387	8,025	8,628	#VALUE!	3.0
Alternative D	10,965	9,833	8,215	7,727	7,472	8,114	8,721	#VALUE!	4.0
Maximum Water Elevation	544 feet								
MWE Surface Area	12,700 acres								
<b>TRINITY LAKE</b>									
Existing Condition	13,173	13,146	12,981	12,307	11,581	10,946	12,356	#VALUE!	12.0
Alternative A	13,388	13,358	13,191	12,534	11,840	11,228	12,590	#VALUE!	15.0
Alternative B	13,401	13,373	13,212	12,554	11,867	11,210	12,603	#VALUE!	15.0
Alternative C	13,431	13,400	13,232	12,583	11,898	11,273	12,636	#VALUE!	16.0
Alternative D	13,277	13,245	13,069	12,368	11,631	10,986			13.5
No Action Alternative	13,219	13,188	13,021	12,336	11,594	10,955	12,386	#VALUE!	13.0
Alternative A	13,388	13,358	13,191	12,534	11,840	11,228	12,590	#VALUE!	15.0
Alternative B	13,401	13,373	13,212	12,554	11,867	11,210	12,603	#VALUE!	15.0
Alternative C	13,431	13,400	13,232	12,583	11,898	11,273	12,636	#VALUE!	16.0
Alternative D	13,277	13,245	13,069	12,368	11,631	10,986	12,429	#VALUE!	13.5
Maximum Water Elevation	2,370 feet								
MWE Surface Area	16,335 acres								
<b>SHASTA LAKE</b>									
Existing Condition	26,976	27,080	25,618	23,211	21,445	20,484	24,136	#VALUE!	28.5
Alternative A	27,181	27,375	26,021	23,641	21,899	20,968	24,514	#VALUE!	33.0
Alternative B	27,231	27,460	26,105	23,731	21,957	20,996	24,580	#VALUE!	33.0
Alternative C	27,252	27,447	26,117	23,732	21,962	21,031	24,590	#VALUE!	33.0
Alternative D	26,976	27,080	25,618	23,211	21,445	20,484	24,136	#VALUE!	28.5
No Action Alternative	26,994	27,105	25,614	23,168	21,388	20,385	24,109	#VALUE!	28.5
Alternative A	27,181	27,375	26,021	23,641	21,899	20,968	24,514	#VALUE!	33.0
Alternative B	27,231	27,460	26,105	23,731	21,957	20,996	24,580	#VALUE!	33.0
Alternative C	27,252	27,447	26,117	23,732	21,962	21,031	24,590	#VALUE!	33.0
Alternative D	26,976	27,080	25,618	23,211	21,445	20,484	24,136	#VALUE!	28.5

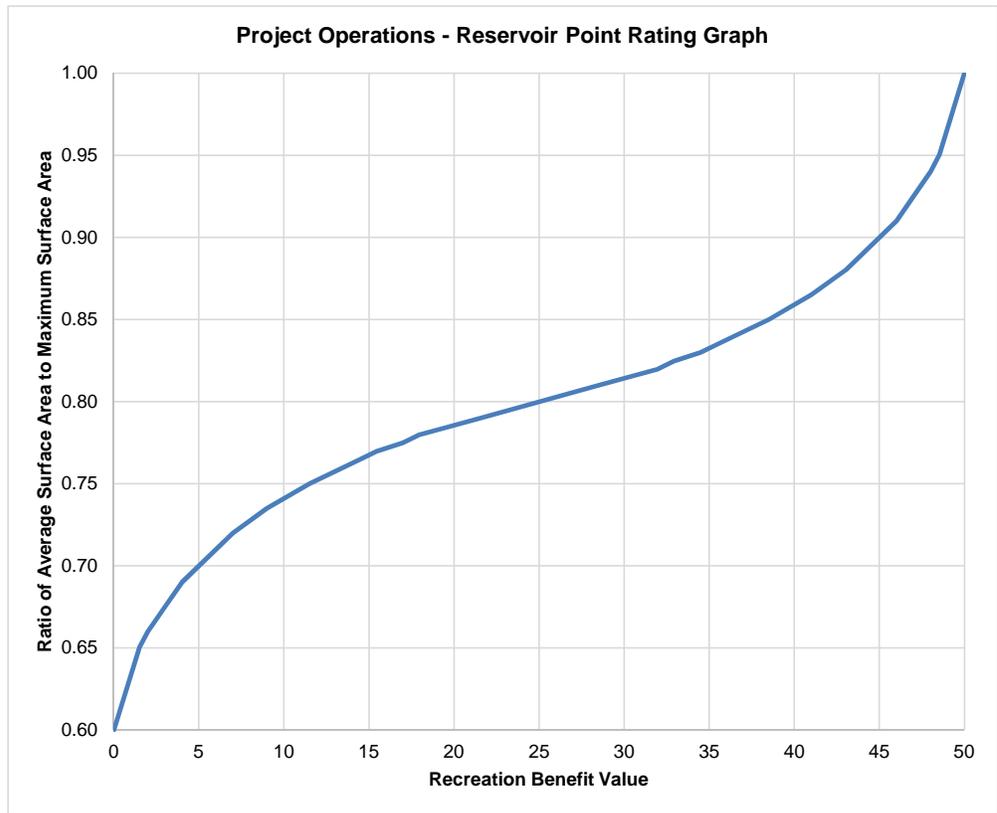
	April	May	June	July	August	September	Average	Ratio	Operation Points*
(End of Month Surface Area)									
Maximum Water Elevation	1,067 feet								
MWE Surface Area	29,740 acres								
<b>LAKE OROVILLE</b>									
Existing Condition	13,560	14,016	13,636	11,939	10,871	9,965	12,331	#VALUE!	18.0
Alternative A	13,635	14,106	13,671	11,966	10,857	9,837	12,345	#VALUE!	18.0
Alternative B	13,621	14,094	13,686	12,008	10,864	9,823	12,349	#VALUE!	18.0
Alternative C	13,619	14,092	13,653	11,955	10,847	9,811	12,330	#VALUE!	18.0
Alternative D	13,688	14,147	13,756	12,066	10,927	9,911	12,416	#VALUE!	19.5
No Action Alternative	13,507	13,966	13,553	11,845	10,745	9,776	12,232	#VALUE!	16.0
Alternative A	13,635	14,106	13,671	11,966	10,857	9,837	12,345	#VALUE!	18.0
Alternative B	13,621	14,094	13,686	12,008	10,864	9,823	12,349	#VALUE!	18.0
Alternative C	13,619	14,092	13,653	11,955	10,847	9,811	12,330	#VALUE!	18.0
Alternative D	13,688	14,147	13,756	12,066	10,927	9,911	12,416	#VALUE!	19.5
Maximum Water Elevation	899 feet								
MWE Surface Area	15,805 acres								
<b>FOLSOM LAKE</b>									
Existing Condition	9,505	10,249	10,045	9,082	8,447	7,734	9,177	#VALUE!	25.0
Alternative A	9,528	10,252	10,046	9,194	8,497	7,826	9,224	#VALUE!	26.5
Alternative B	9,496	10,207	10,017	9,121	8,454	7,841	9,189	#VALUE!	26.0
Alternative C	9,520	10,245	10,059	9,160	8,515	7,854	9,226	#VALUE!	26.5
Alternative D	9,507	10,208	10,030	9,138	8,495	7,891	9,212	#VALUE!	26.5
No Action Alternative	9,478	10,219	9,984	8,943	8,292	7,603	9,087	#VALUE!	22.5
Alternative A	9,528	10,252	10,046	9,194	8,497	7,826	9,224	#VALUE!	26.5
Alternative B	9,496	10,207	10,017	9,121	8,454	7,841	9,189	#VALUE!	26.0
Alternative C	9,520	10,245	10,059	9,160	8,515	7,854	9,226	#VALUE!	26.5
Alternative D	9,507	10,208	10,030	9,138	8,495	7,891	9,212	#VALUE!	26.5
Maximum Water Elevation	456 feet								
MWE Surface Area	11,450 acres								
<b>SITES RESERVOIR</b>									
Existing Condition	0	0	0	0	0	0	0	#VALUE!	0.0
Alternative A	10,936	10,754	10,484	9,897	9,486	9,036	10,099	#VALUE!	30.0
Alternative B	11,793	11,671	11,331	10,807	10,501	10,175	11,046	#VALUE!	19.0
Alternative C	12,699	12,572	12,336	11,889	11,489	11,141	12,021	#VALUE!	39.5
Alternative D	12,717	12,586	12,159	11,595	11,223	10,909	11,865	#VALUE!	37.0
No Action Alternative	0	0	0	0	0	0	0	#VALUE!	0.0
Alternative A	10,936	10,754	10,484	9,897	9,486	9,036	10,099	#VALUE!	30.0
Alternative B	11,793	11,671	11,331	10,807	10,501	10,175	11,046	#VALUE!	19.0
Alternative C	12,699	12,572	12,336	11,889	11,489	11,141	12,021	#VALUE!	39.5
Alternative D	12,717	12,586	12,159	11,595	11,223	10,909	11,865	#VALUE!	37.0
Maximum Water Elevation	520 feet		Alternatives B, C, and D						
MWE Surface Area	14,100 acres								
Maximum Water Elevation	480 feet		Alternative A						
MWE Surface Area	12,400 acres								

\*Operations points for the recreation-day benefit value obtained from Project Operations – Reservoir Point Rating Graph from California Department of Parks and Recreation (California State Parks), 1967 (with Revisions to 1971). Water Project Recreation Planning Manual. Measurement of Benefits, Sections 6400 6411.14.

Note:

MWE = maximum water elevation

Value	Ratio
0	0.600
1.5	0.650
2	0.660
3	0.675
4	0.690
7	0.720
9	0.735
11.5	0.750
14.5	0.765
15.5	0.770
17	0.775
18	0.780
21.5	0.790
25	0.800
28.5	0.810
32	0.820
33	0.825
34.5	0.830
35.5	0.835
38.5	0.850
41	0.865
43	0.880
46	0.910
47	0.925
48	0.940
48.5	0.950
50	1.000



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## **Appendix 21B**

# **Impact of Sites Reservoir Project Operations on Usability of Reservoir Boat Ramps**

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Line items and numbers identified or noted as “No Action Alternative” represent the “Existing Conditions/No Project/No Action Condition” (described in Chapter 2 Alternatives Analysis).  
Table numbering may not be consecutive for all appendixes.

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### Sites Reservoir Project Operations Impacts on Boat Ramp Accessibility

**Table 21B-1  
Number of Years and Months Boat Ramps at San Luis Reservoir are Not Usable Due to Sites Reservoir Operations**

Name of Boat Ramp	Bottom Elevation (feet)	Existing Conditions/No Project/No Action Condition			Alternative A			Alternative B			Alternative C			Alternative D		
		Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months
Dinosaur Point	378	33	93	18.9%	35	91	18.5%	32	90	18.3%	36	102	20.7%	33	95	19.3%
Basalt Boat Ramp	340	3	4	0.8%	1	1	0.2%	3	3	0.6%	1	1	0.2%	2	4	0.8%
Total Months Dewatered			97			92			93			103			99	
Percent Change in Dewatering Compared to the Existing Conditions/No Project/No Action Condition			-			-5.2%			-4.1%			6.2%			2.1%	

**Table 21B-2  
Number of Years and Months Boat Ramps at Trinity Lake are Not Usable Due to Sites Reservoir Operations**

Name of Boat Ramp	Bottom Elevation (feet)	Existing Conditions/No Project/No Action Condition			Alternative A			Alternative B			Alternative C			Alternative D		
		Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months
Stuart Fork	2,338	65	301	61.2%	64	292	59.3%	64	290	58.9%	64	291	59.1%	65	305	62.0%
Clark Springs	2,324	58	249	50.6%	55	237	48.2%	56	235	47.8%	55	235	47.8%	59	250	50.8%
Bowerman	2,323	57	246	50.0%	55	235	47.8%	56	234	47.6%	55	231	47.0%	58	245	49.8%
Fairview	2,313	50	213	43.3%	50	199	40.4%	50	201	40.9%	50	195	39.6%	51	215	43.7%
Trinity Center	2,300	48	178	36.2%	44	160	32.5%	42	154	31.3%	45	154	31.3%	48	176	35.8%
Cedar Stock	2,230	11	37	7.5%	10	33	6.7%	10	36	7.3%	10	33	6.7%	11	37	7.5%
Minersville	2,170	3	5	1.0%	1	1	0.2%	1	2	0.4%	1	1	0.2%	1	1	0.2%
Total Months Dewatered			1,229			1,157			1,152			1,140			1,229	
Percent Change in Dewatering Compared to the Existing Conditions/No Project/No Action Condition			-			-5.9%			-6.3%			-7.2%			0.0%	

**Table 21B-3  
Number of Years and Months Boat Ramps at Shasta Lake are Not Usable Due to Sites Reservoir Operations**

Name of Boat Ramp	Bottom Elevation (feet)	Existing Conditions/No Project/No Action Condition			Alternative A			Alternative B			Alternative C			Alternative D		
		Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months
Bailey Cove	1,017	67	202	41.1%	61	182	37.0%	63	181	36.8%	61	181	36.8%	60	178	36.2%
Antlers	992	33	103	20.9%	27	88	17.9%	26	87	17.7%	27	86	17.5%	25	83	16.9%
Hirz Bay	972	19	71	14.4%	16	58	11.8%	15	51	10.4%	16	54	11.0%	15	54	11.0%
Packers Bay	952	13	50	10.2%	11	39	7.9%	10	39	7.9%	11	38	7.7%	11	40	8.1%
Silverthorn Marina	942	11	41	8.3%	9	29	5.9%	9	34	6.9%	8	26	5.3%	9	29	5.9%
Digger Bay Marina	937	11	37	7.5%	8	27	5.5%	8	29	5.9%	8	24	4.9%	8	25	5.1%
Sugarloaf	907	8	23	4.7%	8	18	3.7%	6	17	3.5%	6	13	2.6%	6	14	2.8%
Bridge Bay Resort	882	7	16	3.3%	5	10	2.0%	5	11	2.2%	4	9	1.8%	5	9	1.8%
Centimudi/Jones Valley	857	5	11	2.2%	4	8	1.6%	5	8	1.6%	2	4	0.8%	1	2	0.4%
Total Months Dewatered			554			459			457			435			434	
Percent Change in Dewatering Compared to the Existing Conditions/No Project/No Action Condition			-			-17.1%			-17.5%			-21.5%			-21.7%	

**Table 21B-4  
Number of Years and Months Boat Ramps at Lake Oroville are Not Usable Due to Reservoir Operations**

Name of Boat Ramp	Bottom Elevation (feet)	Existing Conditions/No Project/No Action Condition			Alternative A			Alternative B			Alternative C			Alternative D		
		Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months
Loafer Creek	775	46	130	26.4%	44	123	25.0%	43	123	25.0%	41	119	24.2%	42	118	24.0%
Enterprise	750	34	97	19.7%	35	89	18.1%	34	92	18.7%	34	92	18.7%	32	83	16.9%
Lime Saddle	702	20	52	10.6%	18	47	9.6%	19	46	9.3%	20	48	9.8%	18	40	8.1%
Spillway	695	19	50	10.2%	17	42	8.5%	18	43	8.7%	19	46	9.3%	14	35	7.1%
Bidwell Canyon	660	9	20	4.1%	7	18	3.7%	5	11	2.2%	7	17	3.5%	10	24	4.9%
Total Months Dewatered			349			319			315			322			300	
Percent Change in Dewatering Compared to the Existing Conditions/No Project/No Action Condition			-			-8.6%			-9.7%			-7.7%			-14.0%	

**Table 21B-5  
Number of Years and Months Boat Ramps at Folsom Lake are Not Usable Due to Reservoir Operations**

Name of Boat Ramp	Bottom Elevation (feet)	Existing Conditions/No Project/No Action Condition			Alternative A			Alternative B			Alternative C			Alternative D		
		Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months
Rattlesnake Bar	425	46	155	31.5%	38	136	27.6%	42	140	28.5%	35	131	26.6%	36	135	27.4%
Folsom Point	408	30	90	18.3%	26	78	15.9%	25	78	15.9%	26	79	16.1%	25	79	16.1%
Folsom Lake Marina	395	14	44	8.9%	16	37	7.5%	12	39	7.9%	14	35	7.1%	13	40	8.1%
Hobie Cove	375	4	14	2.8%	4	11	2.2%	3	13	2.6%	5	11	2.2%	4	12	2.4%
Low Water	370	4	14	2.8%	3	10	2.0%	3	12	2.4%	3	9	1.8%	3	10	2.0%
Total Months Dewatered			317			272			282			265			276	
Percent Change in Dewatering Compared to the Existing Conditions/No Project/No Action Condition			-			-14.2%			-11.0%			-16.4%			-12.9%	

**Table 21B-6  
Number of Years and Months Boat Ramps at Sites Reservoir are Not Usable Due to Reservoir Operations**

Name of Boat Ramp	Bottom Elevation (feet)	Alternative A			Alternative B			Alternative C			Alternative D		
		NWS=480 feet			NWS=520 feet			NWS=520 feet			NWS=520 feet		
		Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months	Number of Years	Number of Months	Percent of Months
Stone Corral	400	17	75	15.2%	16	80	16.3%	13	51	10.4%	14	64	13.0%
Saddle Dam	420	28	111	22.6%	23	108	22.0%	14	72	14.6%	15	74	15.0%
Total Months Dewatered			186			188			123			138	
Percent Change in Dewatering Compared to Alternative A			-			1.1%			-33.9%			-25.8%	
Percent Change in Dewatering Compared to Alternative B			-			-			-34.6%			-26.6%	
Percent Change in Dewatering Compared to Alternative C			-			-			-			12.2%	

Notes:  
NWS = normal water surface elevation

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