

General Assumptions		
Model Configuration		
Model Scenario:	Base Case	L060813
Water Balance/Operations Model Version:	1.12	1.12
Scenario Run Date:	7/1/2013	7/1/2013
Level of Development?	Present Level of Development	Present Level of Development
Narrows 1/2 Preference?	Narrows 1	Narrows 1
Slate Creek Operations?	Historical Flows	Historical Flows
Basis of Hydrologic Index Calculation?	Perfect Foresight	Perfect Foresight
Groundwater Substitution Transfers?	No	No
Use Weekly Power Generation Factors?	No	No
Temperature Model Run Date?	4/10/2014	
Date printed:	10/10/2014	10/10/2014

Minimum Flow Requirement Assumptions		
Water-Year Classification below Our House Dam:	Existing FERC License	Smartsville Index
Water-Year Classification below Log Cabin Dam:	Existing FERC License	Smartsville Index
Water-Year Classification below New Bullards Bar Dam:	Existing FERC License	Existing FERC License
Water-Year Classification below Englebright Dam:	North Yuba Index	North Yuba Index
Flow Requirements below Our House Dam:	Existing FERC License	L060813
Flow Requirements below Log Cabin Dam:	Existing FERC License	L060813
Flow Requirements below New Bullards Bar Dam:	Existing FERC License	Existing FERC License
Flow Requirements below Englebright Dam:	Yuba River Accord	Yuba River Accord
Our House Dam Release Buffer:	3 cfs	3 cfs
Log Cabin Dam Release Buffer:	1 cfs	1 cfs
Minimum Flow Powerhouse Release Buffer:	2 cfs	2 cfs

New Bullards Bar Reservoir Storage Assumptions		
New Bullards Bar Reservoir Target Operating Line:	Yuba River Accord	Yuba River Accord
New Bullards Bar Reservoir Carryover Storage Protection Level:	99% Exceedance Drought (294,000 AF)	99% Exceedance Drought (294,000 AF)
Agricultural Delivery Deficiency for Carryover Storage Calculation:	50%	50%
Maximum Agricultural Delivery Deficiency for Carryover Storage:	50%	50%

Other Operational Requirements		
Englebright Release Flow Fluctuation Criteria:	Existing FERC License	Existing FERC License
New Bullards Bar Reservoir Flood Operations:	1972 Flood Control Manual	1972 Flood Control Manual
Englebright Reservoir Low-Storage Restriction:	PG&E Agreement with Marina Operator	PG&E Agreement with Marina Operator

Notes: Includes:

Timeseries Assumptions														
Flow Requirements below Our House Dam (cfs)														
Base Case														
WY Classification	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-Apr 15	Apr 16-30	May	Jun 1-15	Jun 16-30	July	August	Sep
100% Unimp	30	30	30	30	30	30	30	50	50	50	30	30	30	30
50% Unimp	25.5	25.5	25.5	25.5	25.5	25.5	25.5	42.5	42.5	42.5	25.5	25.5	25.5	25.5
45% Unimp	24	24	24	24	24	24	24	40	40	40	24	24	24	24
40% Unimp	21	21	21	21	21	21	21	35	35	35	21	21	21	21

L060813														
WY Classification	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
Extremely Critical	21	21	21	21	21	21	21	21	21	21	21	21		
Critical	35	35	35	35	35	35	21	21	21	35	35	35		
Dry	49	49	49	49	49	49	49	49	49	49	49	49		
Below Normal	57	57	57	57	57	57	57	57	57	57	57	57		
Above Normal	57	57	57	57	57	66	66	66	66	66	66	66		
Wet	57	57	57	57	57	80	80	80	80	80	80	80		

Flow Requirements below Log Cabin Dam (cfs)														
Base Case														
WY Classification	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-Apr 15	Apr 16-30	May	Jun 1-15	Jun 16-30	July	August	Sep
100% Unimp	8	8	8	8	8	8	8	12	12	12	8	8	8	8
50% Unimp	6.8	6.8	6.8	6.8	6.8	6.8	6.8	10.2	10.2	10.2	6.8	6.8	6.8	6.8
45% Unimp	6.4	6.4	6.4	6.4	6.4	6.4	6.4	9.6	9.6	9.6	6.4	6.4	6.4	6.4
40% Unimp	5.6	5.6	5.6	5.6	5.6	5.6	5.6	8.4	8.4	8.4	5.6	5.6	5.6	5.6

L060813														
WY Classification	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
Extremely Critical	6	6	6	6	6	6	6	6	6	6	6	6		
Critical	6	6	6	6	6	6	12	12	12	6	6	6		
Dry	6	6	6	6	6	6	18	18	18	6	6	6		
Below Normal	8	8	8	8	8	8	21	21	21	8	8	8		
Above Normal	8	8	8	8	8	10	26	26	26	10	10	10		
Wet	8	8	8	8	8	13	32	32	32	13	13	13		

Flow Requirements below New Bullards Bar Dam (cfs)														
Base Case														
WY Classification	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-Apr 15	Apr 16-30	May	Jun 1-15	Jun 16-30	July	August	Sep
100% Unimp	5	5	5	5	5	5	5	5	5	5	5	5	5	5
50% Unimp	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
45% Unimp	4	4	4	4	4	4	4	4	4	4	4	4	4	4
40% Unimp	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5

Existing FERC License														
WY Classification	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-Apr 15	Apr 16-30	May	Jun 1-15	Jun 16-30	July	August	Sep
100% Unimp	5	5	5	5	5	5	5	5	5	5	5	5	5	5
50% Unimp	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
45% Unimp	4	4	4	4	4	4	4	4	4	4	4	4	4	4
40% Unimp	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5

Timeseries Assumptions
Flow Requirements at Smartsville (cfs)

Base Case																
WY Classification	Oct 1-15	Oct 16-31	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	June 1-15	June 16-30	Jul	Aug	Sep
1	700	700	700	700	700	700	700	700	0	0	0	0	0	0	0	700
2	700	700	700	700	700	700	700	700	0	0	0	0	0	0	0	700
3	700	700	700	700	700	700	700	700	0	0	0	0	0	0	0	700
4	700	700	700	700	700	700	700	700	0	0	0	0	0	0	0	700
5	600	600	600	550	550	550	550	600	0	0	0	0	0	0	0	500
6	600	600	600	550	550	550	550	600	0	0	0	0	0	0	0	500
Conference	600	600	600	600	600	600	600	0	0	0	0	0	0	0	0	0

Yuba River Accord																
WY Classification	Oct 1-15	Oct 16-31	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	June 1-15	June 16-30	Jul	Aug	Sep
1	700	700	700	700	700	700	700	700	0	0	0	0	0	0	0	700
2	700	700	700	700	700	700	700	700	0	0	0	0	0	0	0	700
3	700	700	700	700	700	700	700	700	0	0	0	0	0	0	0	700
4	700	700	700	700	700	700	700	700	0	0	0	0	0	0	0	700
5	600	600	600	550	550	550	550	600	0	0	0	0	0	0	0	500
6	600	600	600	550	550	550	550	600	0	0	0	0	0	0	0	500
Conference	600	600	600	600	600	600	600	0	0	0	0	0	0	0	0	0

Yuba Accord Flow Requirements at Marysville (cfs)

Base Case																
WY Classification	Oct 1-15	Oct 16-31	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	June 1-15	June 16-30	Jul	Aug	Sep
1	500	500	500	500	500	500	700	1000	1000	2000	2000	1500	1500	700	600	500
2	500	500	500	500	500	500	700	700	800	1000	1000	800	500	500	500	500
3	500	500	500	500	500	500	500	700	700	900	900	500	500	500	500	500
4	400	400	500	500	500	500	500	600	900	900	600	400	400	400	400	400
5	400	400	500	500	500	500	500	500	600	600	400	400	400	400	400	400
6	350	350	350	350	350	350	350	350	500	500	400	300	150	150	150	350
Conference	400	400	400	400	245	245	245	245	245	245	245	245	245	70	70	70

Yuba River Accord																
WY Classification	Oct 1-15	Oct 16-31	Nov	Dec	Jan	Feb	Mar	Apr 1-15	Apr 16-30	May 1-15	May 16-31	June 1-15	June 16-30	Jul	Aug	Sep
1	500	500	500	500	500	500	700	1000	1000	2000	2000	1500	1500	700	600	500
2	500	500	500	500	500	500	700	700	800	1000	1000	800	500	500	500	500
3	500	500	500	500	500	500	500	700	700	900	900	500	500	500	500	500
4	400	400	500	500	500	500	500	600	900	900	600	400	400	400	400	400
5	400	400	500	500	500	500	500	500	600	600	400	400	400	400	400	400
6	350	350	350	350	350	350	350	350	500	500	400	300	150	150	150	350
Conference	400	400	400	400	245	245	245	245	245	245	245	245	245	70	70	70

New Bullards Bar Reservoir Storage Targets

Yuba River Accord																
Operating Line	31-Oct	30-Nov	31-Dec	31-Jan	28-Feb	31-Mar	30-Apr	31-May	30-Jun	15-Jul	31-Jul	15-Aug	31-Aug	15-Sep	30-Sep	
Upper Buffer	20,000	30,000	30,000	80,000	30,000	30,000	30,000	26,000	0	5,000	10,000	10,000	10,000	90,000	200,000	
Target Line	660,000	660,000	650,000	600,000	650,000	750,000	850,000	940,000	920,000	875,000	825,000	770,000	715,000	682,500	650,000	
Lower Buffer	10,000	30,000	30,000	30,000	30,000	30,000	30,000	100,000	80,000	60,000	40,000	35,000	15,000	5,000	2,000	

Yuba River Accord																
Operating Line	31-Oct	30-Nov	31-Dec	31-Jan	28-Feb	31-Mar	30-Apr	31-May	30-Jun	15-Jul	31-Jul	15-Aug	31-Aug	15-Sep	30-Sep	
Upper Buffer	20,000	30,000	30,000	80,000	30,000	30,000	30,000	26,000	0	5,000	10,000	10,000	10,000	90,000	200,000	
Target Line	660,000	660,000	650,000	600,000	650,000	750,000	850,000	940,000	920,000	875,000	825,000	770,000	715,000	682,500	650,000	
Lower Buffer	10,000	30,000	30,000	30,000	30,000	30,000	30,000	100,000	80,000	60,000	40,000	35,000	15,000	5,000	2,000	

Overview - Model Output Generation Summary																						
Water Year Classification:	Wet			Above Normal			Below Normal			Dry			Critical			Extremely Critical			Average All Years			
Model case:	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	
New Colgate Powerhouse Generation (Average MWh/yr)	1,734,595	1,715,103	-1.1%	1,338,929	1,321,794	-1.3%	1,199,361	1,188,712	-0.9%	856,351	845,652	-1.2%	789,949	787,920	-0.3%	499,174	498,723	-0.1%	1,242,674	1,228,670	-14,004	-1.1%
Narrows 2 Powerhouse Generation (Average MWh/yr)	263,357	262,977	-0.1%	191,457	191,123	-0.2%	162,907	164,128	0.7%	100,645	100,600	0.0%	75,641	75,920	0.4%	88,579	88,730	0.0%	172,818	172,749	-69	0.0%
Total YRDP Generation (Average MWh/yr)	1,997,952	1,978,080	-1.0%	1,530,386	1,512,917	-1.1%	1,362,268	1,352,840	-0.7%	956,996	946,252	-1.1%	865,591	863,840	-0.2%	587,752	587,453	-0.1%	1,415,492	1,401,419	-14,072	-1.0%
Overview - Model Output Flows Summary																						
Water Year Classification:	Wet			Above Normal			Below Normal			Dry			Critical			Extremely Critical			Average All Years			
Model case:	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	
Middle Yuba River																						
MYR below Our House Dam (Avg. AF/yr)	138,534	153,990	11.2%	50,492	64,467	27.7%	52,119	63,362	21.6%	62,957	71,282	13.2%	51,627	54,189	5.0%	46,822	47,733	1.9%	73,655	85,142	11,487	15.6%
MYR Near Confluence with NYR (Avg. AF/yr)	263,817	282,034	6.9%	115,555	131,139	13.5%	126,094	138,201	9.6%	132,670	141,423	6.6%	105,696	108,722	2.9%	129,171	129,802	0.5%	154,616	167,462	12,846	8.3%
Oregon Creek and North Yuba River																						
Oregon Creek below Log Cabin Dam (Avg. AF/yr)	34,843	37,603	7.9%	12,857	14,466	12.5%	16,530	17,394	5.2%	18,611	19,038	2.3%	15,958	16,421	2.9%	20,517	20,237	-1.4%	20,201	21,560	1,360	6.7%
NYR below New Bullards Bar Dam (Avg. AF/yr)	323,945	323,151	-0.2%	68,685	67,691	-1.4%	79,702	79,194	-0.6%	117,207	117,731	0.4%	84,242	83,468	-0.9%	4,108	4,101	-0.2%	138,785	138,264	-521	-0.4%
Yuba River																						
Yuba River above New Colgate PH (Avg. AF/yr)	623,130	640,553	2.8%	204,656	219,247	7.1%	228,262	239,860	5.1%	269,862	279,139	3.4%	204,842	207,095	1.1%	157,459	158,083	0.4%	317,162	329,487	12,325	3.9%
Yuba River near Smartsville (Avg. AF/yr)	2,823,890	2,824,166	0.0%	1,703,165	1,702,881	0.0%	1,611,008	1,612,505	0.1%	1,319,552	1,319,509	0.0%	1,141,046	1,141,503	0.0%	959,191	959,503	0.0%	1,802,257	1,802,248	-9	0.0%
Yuba River near Marysville (Avg. AF/yr)	2,755,457	2,755,733	0.0%	1,517,342	1,517,057	0.0%	1,437,201	1,438,698	0.1%	1,132,410	1,132,367	0.0%	936,979	937,437	0.0%	967,849	968,193	0.0%	1,648,248	1,648,240	-8	0.0%
Average Agricultural Water Supply																						
Water Year Classification:	Wet			Above Normal			Below Normal			Dry			Critical			Extremely Critical			Average All Years			
Model case:	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	
Total (% of requested)	100%	100%	0%	100%	100%	0%	100%	100%	0%	100%	100%	0%	49%	49%	0%	49%	49%	0%	99%	99%	0%	
End of September Reservoir Storage																						
Water Year Classification:	Wet			Above Normal			Below Normal			Dry			Critical			Extremely Critical			Average All Years			
Model case:	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	
Reservoir Storage (AF)	652,111	651,564	-0.1%	643,499	643,324	0.0%	647,587	654,974	1.1%	575,084	576,125	0.2%	243,591	243,462	-0.1%	243,591	243,462	-0.1%	610,405	611,526	1,121	0.2%

*Water Year Classifications based on Smartsville Index

Model Output Summary - Generation

New Colgate Powerhouse Generation (Average Monthly MWh)																					
Month	Wet			Above Normal			Below Normal			Dry			Critical			Extremely Critical			Average All Years		
	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change
October	53,916	52,840	-2.0%	51,558	50,977	-1.1%	50,800	51,400	1.2%	47,422	47,225	-0.4%	45,400	45,353	-0.1%	12,930	12,807	-0.9%	49,740	49,317	-0.9%
November	63,447	62,331	-1.8%	54,834	53,869	-1.8%	40,424	46,363	14.7%	49,441	49,146	-0.6%	44,122	43,688	-1.0%	10,722	10,713	-0.1%	52,134	52,183	0.1%
December	101,829	100,754	-1.1%	65,068	63,444	-2.5%	57,033	57,674	1.1%	54,392	53,638	-1.4%	29,394	28,887	-1.7%	10,671	10,658	-0.1%	66,774	65,872	-1.4%
January	145,571	144,604	-0.7%	97,712	96,357	-1.4%	133,822	132,622	-0.9%	64,044	62,716	-2.1%	59,247	58,932	-0.5%	6,639	6,631	-0.1%	101,362	100,236	-1.1%
February	164,180	163,646	-0.3%	93,114	91,987	-1.2%	142,133	141,029	-0.8%	77,188	76,164	-1.3%	87,491	86,896	-0.7%	117,015	115,729	-1.1%	113,061	112,139	-0.8%
March	167,795	166,644	-0.7%	99,066	97,749	-1.3%	111,040	109,488	-1.4%	120,795	119,713	-0.9%	100,382	99,835	-0.5%	213,455	212,469	-0.5%	124,945	123,756	-1.0%
April	191,343	187,297	-2.1%	131,468	129,062	-1.8%	75,474	73,141	-3.1%	41,282	40,098	-2.9%	51,570	51,411	-0.3%	15,355	15,828	3.1%	107,942	105,690	-2.1%
May	219,400	217,661	-0.8%	200,253	198,577	-0.8%	165,205	158,256	-4.2%	93,721	92,079	-1.8%	91,715	92,463	0.8%	22,932	23,940	4.4%	163,675	161,464	-1.4%
June	218,176	216,276	-0.9%	204,643	202,779	-0.9%	150,482	144,113	-4.2%	89,700	87,197	-2.8%	80,588	80,758	0.2%	33,174	33,674	1.5%	161,197	158,732	-1.5%
July	193,272	190,901	-1.2%	165,191	162,777	-1.5%	124,480	121,094	-2.7%	95,056	94,415	-0.7%	89,801	89,606	-0.2%	28,564	28,561	0.0%	141,153	139,217	-1.4%
August	155,643	153,199	-1.6%	120,461	118,977	-1.2%	95,085	97,835	2.9%	76,958	76,914	-0.1%	68,381	68,275	-0.2%	20,162	20,160	0.0%	108,664	108,042	-0.6%
September	60,024	58,953	-1.8%	55,561	55,238	-0.6%	53,383	55,696	4.3%	46,352	46,348	0.0%	41,859	41,815	-0.1%	7,555	7,552	0.0%	52,027	52,024	0.0%
Average MWh/	1,734,595	1,715,103	-1.1%	1,338,929	1,321,794	-1.3%	1,199,361	1,188,712	-0.9%	856,351	845,652	-1.2%	789,949	787,920	-0.3%	499,174	498,723	-0.1%	1,242,674	1,228,670	-1.1%

Narrows 2 Powerhouse Generation (Average Monthly MWh)																					
Month	Wet			Above Normal			Below Normal			Dry			Critical			Extremely Critical			Average All Years		
	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change
October	4,803	4,748	-1.1%	3,674	3,611	-1.7%	2,893	3,657	26.4%	1,425	1,425	0.0%	0	0	0.0%	0	0	0.0%	3,002	3,062	2.0%
November	5,080	5,083	0.1%	4,092	4,094	0.1%	382	1,683	340.5%	2,338	2,299	-1.7%	0	0	0.0%	0	0	0.0%	3,096	3,248	4.9%
December	15,428	15,421	0.0%	7,791	7,769	-0.3%	7,735	8,642	11.7%	5,572	5,608	0.6%	1,847	1,848	0.0%	4,744	4,745	0.0%	8,651	8,761	1.3%
January	23,957	23,939	-0.1%	15,371	15,384	0.1%	24,883	24,936	0.2%	10,551	10,521	-0.3%	11,525	11,711	1.6%	20,264	20,265	0.0%	17,405	17,418	0.1%
February	28,802	28,814	0.0%	16,274	16,228	-0.3%	23,341	23,198	-0.6%	14,696	14,752	0.4%	11,474	11,477	0.0%	27,222	27,371	0.5%	19,752	19,739	-0.1%
March	30,074	29,989	-0.3%	18,743	18,732	-0.1%	20,904	20,824	-0.4%	24,033	24,058	0.1%	13,018	13,109	0.7%	36,348	36,350	0.0%	22,942	22,920	-0.1%
April	33,770	33,915	0.4%	24,406	24,385	-0.1%	13,289	13,155	-1.0%	6,553	6,582	0.4%	5,095	5,095	0.0%	0	0	0.0%	18,907	18,919	0.1%
May	36,478	36,608	0.4%	34,088	34,113	0.1%	26,258	24,989	-4.8%	9,641	9,538	-1.1%	8,662	8,662	0.0%	0	0	0.0%	25,409	25,237	-0.7%
June	33,746	33,740	0.0%	30,823	30,849	0.1%	18,836	17,909	-4.9%	8,460	8,440	-0.2%	8,188	8,188	0.0%	0	0	0.0%	22,394	22,260	-0.6%
July	26,123	25,918	-0.8%	19,658	19,563	-0.5%	12,131	12,032	-0.8%	8,461	8,461	0.0%	8,461	8,461	0.0%	0	0	0.0%	16,219	16,129	-0.6%
August	18,536	18,255	-1.5%	11,539	11,396	-1.2%	9,206	9,189	-0.2%	7,976	7,976	0.0%	7,369	7,369	0.0%	0	0	0.0%	11,365	11,255	-1.0%
September	6,561	6,547	-0.2%	4,997	4,997	0.0%	3,048	3,912	28.4%	940	940	0.0%	0	0	0.0%	0	0	0.0%	3,677	3,800	3.4%
Average MWh/	263,357	262,977	-0.1%	191,457	191,123	-0.2%	162,907	164,128	0.7%	100,645	100,600	0.0%	75,641	75,920	0.4%	88,579	88,730	0.2%	172,818	172,749	0.0%

Model Output Summary - Miscellaneous Values

End of September New Bullards Bar Reservoir Storage (AF)			
WY Classification	Base	Alt	Change
Wet	652,111	651,564	-0.1%
Above Normal	643,499	643,324	0.0%
Below Normal	647,587	654,974	1.1%
Dry	575,084	576,125	0.2%
Critical	495,749	495,616	0.0%
Extremely Critical	243,591	243,462	-0.1%
Average All Years	610,405	611,526	0.2%

Average Agricultural Water Supply Allocation for April through September (%)			
WY Classification	Base	Alt	Change
Wet	100%	100%	0.0%
Above Normal	100%	100%	0.0%
Below Normal	100%	100%	0.0%
Dry	100%	100%	0.0%
Critical	100%	100%	0.0%
Extremely Critical	49%	49%	0.0%
Average All Years	99%	99%	0.0%

Number of Days Narrows 2 PH Releases Controlled by Flow Fluctuation Criteria			
WY Classification	Base	Alt	Change
Wet	14	13	-7.1%
Above Normal	162	159	-1.9%
Below Normal	0	0	0.0%
Dry	147	147	0.0%
Critical	97	96	-1.0%
Extremely Critical	2	2	0.0%
Total All Years	422	417	-1.2%

Recurrence of North Yuba Index Year Types (Years)			
Flow Sched.	Base	Alt	Change
Sched. 1	23	22	-1
Sched. 2	8	8	0
Sched. 3	2	3	1
Sched. 4	6	6	0
Sched. 5	1	1	0
Sched. 6	0	0	0
Conference	1	1	0

Average New Bullards Bar Reservoir Water-Surface Elevation on Sept. 10 (ft)			
WY Classification	Base	Alt	Change
Wet	1,887	1,887	0.0%
Above Normal	1,885	1,885	0.0%
Below Normal	1,887	1,889	0.1%
Dry	1,866	1,866	0.0%
Critical	1,843	1,842	0.0%
Extremely Critical	1,738	1,738	0.0%
Average All Years	1,875	1,875	0.0%

Average Number of Days per Year Dark Day Boat Ramp is Available (Water Level >= 1,758 ft) (days)			
WY Classification	Base	Alt	Change
Wet	365	365	0
Above Normal	365	365	0
Below Normal	365	365	0
Dry	365	365	0
Critical	365	365	0
Extremely Critical	190	190	0
Average All Years	361	361	0

Average Number of Days per Year Cottage Creek Boat Ramp is Available (Water Level >= 1,853 ft) (Days)			
WY Classification	Base	Alt	Change
Wet	347	347	0
Above Normal	355	354	-1
Below Normal	365	365	0
Dry	291	290	-1
Critical	188	188	0
Extremely Critical	69	69	0
Average All Years	321	321	0

*Water Year (WY) Classifications based on Smartsville Index

Model Output Summary - Flows

Middle Yuba River below Our House Dam (Average monthly flow, cfs)																					
Month	Wet			Above Normal			Below Normal			Dry			Critical			Extremely Critical			Average All Years		
	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change
October	34	48	42.4%	33	43	31.2%	31	41	33.5%	27	31	14.5%	24	26	9.5%	17	17	0.0%	30	39	29.6%
November	70	87	24.4%	57	74	30.5%	33	52	58.2%	86	97	13.5%	24	32	34.7%	22	22	0.0%	60	75	25.1%
December	259	278	7.6%	106	130	22.8%	48	71	46.3%	142	159	12.1%	32	41	29.5%	38	38	0.0%	137	157	14.3%
January	472	491	4.1%	111	135	21.5%	273	296	8.5%	63	83	31.4%	230	240	4.4%	302	302	0.0%	222	242	9.1%
February	178	197	10.7%	81	103	27.1%	148	172	16.3%	314	335	6.6%	29	47	63.1%	65	89	37.2%	160	181	13.1%
March	156	176	13.1%	96	117	21.9%	48	73	51.0%	223	243	8.8%	337	350	3.8%	180	201	11.7%	152	173	13.4%
April	374	396	5.8%	57	81	42.5%	47	63	36.0%	38	52	37.6%	31	31	0.0%	31	24	-22.6%	118	136	15.1%
May	457	470	3.0%	129	143	10.4%	99	106	6.6%	47	53	12.1%	38	24	-36.8%	38	24	-36.8%	170	178	4.7%
June	189	220	16.5%	68	91	34.0%	44	60	36.6%	38	51	33.0%	31	24	-23.7%	31	24	-23.7%	81	99	22.9%
July	38	79	108.1%	33	63	91.4%	33	51	53.4%	29	40	37.0%	24	24	0.0%	17	17	0.0%	32	56	73.0%
August	33	57	73.4%	33	48	45.0%	32	37	14.4%	27	29	6.7%	23	26	10.8%	13	13	0.0%	30	42	37.1%
September	33	47	43.9%	33	41	23.7%	30	32	4.8%	26	27	3.3%	23	24	6.2%	15	15	0.0%	30	36	20.5%
Average AF/yr	138,534	153,990	11.2%	50,492	64,467	27.7%	52,119	63,362	21.6%	62,957	71,282	13.2%	51,627	54,189	5.0%	46,822	47,733	1.9%	73,655	85,142	15.6%

Middle Yuba River Near Confluence with North Yuba River (Average monthly flow, cfs)																					
Month	Wet			Above Normal			Below Normal			Dry			Critical			Extremely Critical			Average All Years		
	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change
October	50	61	23.1%	46	54	17.1%	43	52	21.6%	38	41	8.2%	30	30	2.2%	21	21	0.0%	43	50	16.7%
November	135	150	11.4%	117	133	13.0%	64	82	27.3%	141	151	6.9%	37	44	18.7%	38	38	0.5%	113	126	11.9%
December	531	550	3.6%	216	240	10.9%	132	153	16.5%	275	291	5.9%	93	102	10.0%	138	139	0.2%	285	304	6.7%
January	906	925	2.1%	259	283	9.1%	654	677	3.5%	192	211	9.8%	554	563	1.7%	840	840	0.0%	486	506	4.1%
February	545	563	3.3%	246	267	8.7%	403	426	5.8%	660	680	3.0%	108	127	16.9%	313	336	7.4%	420	440	4.8%
March	450	469	4.4%	331	351	6.0%	224	248	10.8%	527	546	3.6%	627	639	2.0%	566	587	3.7%	417	437	4.7%
April	721	752	4.3%	215	247	14.9%	182	203	11.7%	132	150	13.3%	82	84	2.4%	49	41	-16.2%	289	313	8.2%
May	645	676	4.9%	239	266	11.3%	198	214	7.8%	97	110	13.6%	69	59	-15.1%	72	56	-22.7%	274	294	7.1%
June	246	297	20.8%	110	148	35.0%	77	103	33.4%	65	82	27.4%	47	44	-5.4%	44	36	-19.0%	119	149	25.8%
July	60	114	88.7%	50	85	71.5%	48	65	36.0%	41	50	22.4%	33	36	8.2%	20	20	0.0%	48	76	57.9%
August	47	68	44.6%	46	56	22.5%	41	43	5.3%	33	34	1.8%	29	30	5.3%	15	15	0.0%	41	49	20.8%
September	46	58	24.0%	44	48	8.5%	36	37	1.7%	32	32	1.1%	28	28	2.3%	19	19	0.1%	39	43	9.9%
Average AF/yr	263,817	282,034	6.9%	115,555	131,139	13.5%	126,094	138,201	9.6%	132,670	141,423	6.6%	105,696	108,722	2.9%	129,171	129,802	0.5%	154,616	167,462	8.3%

Oregon Creek below Log Cabin Dam (Average monthly flow, cfs)																					
Month	Wet			Above Normal			Below Normal			Dry			Critical			Extremely Critical			Average All Years		
	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change
October	9	6	-33.7%	7	5	-31.8%	6	5	-19.3%	4	4	-18.3%	4	2	-42.3%	2	2	0.0%	6	4	-29.2%
November	19	18	-9.6%	17	15	-11.6%	8	7	-18.4%	18	17	-9.5%	6	5	-24.2%	4	5	3.9%	16	14	-11.1%
December	91	91	-0.7%	29	28	-1.6%	16	15	-4.4%	44	43	-2.0%	11	11	-1.0%	11	12	2.9%	44	43	-1.3%
January	153	153	-0.3%	32	32	-1.2%	118	118	-0.3%	25	24	-3.6%	103	102	-0.8%	157	157	0.2%	79	78	-0.7%
February	93	92	-1.2%	28	28	-2.2%	55	55	-1.4%	108	108	-0.7%	8	8	3.1%	38	37	-2.5%	64	63	-1.1%
March	63	62	-1.2%	35	33	-3.5%	17	17	-2.0%	69	69	-0.8%	92	92	0.0%	96	96	-0.1%	53	52	-1.4%
April	83	92	11.1%	13	21	60.1%	11	16	40.3%	10	14	32.4%	8	10	25.0%	8	7	-12.5%	27	33	22.3%
May	31	49	57.4%	16	30	82.4%	15	24	58.6%	12	19	64.4%	9	13	38.3%	9	7	-25.5%	18	29	64.1%
June	11	31	178.9%	11	27	138.2%	11	21	85.8%	10	15	52.3%	8	13	61.2%	8	7	-13.0%	11	23	115.0%
July	9	22	140.2%	9	14	59.4%	9	8	-4.5%	7	6	-20.9%	6	9	43.9%	1	1	0.0%	8	12	52.6%
August	9	6	-36.2%	9	4	-53.6%	5	3	-46.6%	4	2	-34.5%	3	2	-33.3%	1	1	0.0%	6	4	-44.4%
September	8	5	-40.6%	7	3	-53.6%	3	2	-25.9%	3	2	-18.8%	3	2	-29.4%	2	2	1.5%	5	3	-41.8%
Average AF/yr	34,843	37,603	7.9%	12,857	14,466	12.5%	16,530	17,394	5.2%	18,611	19,038	2.3%	15,958	16,421	2.9%	20,517	20,237	-1.4%	20,201	21,560	6.7%

*Water Year Classifications based on Smartsville Index

Model Output Summary - Flows

North Yuba River below New Bullards Bar Dam (Average monthly flow, cfs)																					
Month	Wet			Above Normal			Below Normal			Dry			Critical			Extremely Critical			Average All Years		
	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change
October	7	7	0.0%	7	7	0.0%	7	7	0.0%	6	6	0.0%	6	6	0.0%	6	6	0.0%	7	7	0.0%
November	7	7	0.0%	7	7	0.0%	7	7	0.0%	6	6	0.2%	6	6	0.0%	6	6	0.0%	7	7	0.0%
December	467	464	-0.7%	59	57	-3.6%	7	7	0.6%	383	404	5.6%	6	6	0.0%	6	6	0.0%	218	221	1.5%
January	1,422	1,420	-0.1%	400	398	-0.5%	678	677	-0.2%	70	70	-0.3%	6	6	0.0%	6	6	0.0%	572	571	-0.2%
February	244	237	-2.9%	60	58	-3.3%	457	453	-0.9%	934	929	-0.5%	35	31	-11.1%	6	6	0.0%	342	337	-1.2%
March	613	607	-1.0%	227	223	-1.9%	120	119	-1.0%	560	551	-1.6%	1,284	1,275	-0.7%	7	7	-1.5%	453	448	-1.2%
April	658	664	1.0%	32	31	-1.3%	7	7	0.0%	6	6	0.0%	6	6	0.0%	6	6	0.0%	157	159	0.8%
May	1,139	1,157	1.5%	181	179	-1.1%	7	7	0.0%	6	6	0.0%	6	6	0.0%	6	6	0.0%	310	314	1.0%
June	737	718	-2.6%	135	131	-2.8%	31	29	-6.0%	6	6	0.0%	6	6	0.0%	6	6	0.0%	211	205	-2.7%
July	28	27	-5.2%	8	8	-0.4%	7	7	0.0%	6	6	0.0%	6	6	0.0%	6	6	0.0%	12	11	-2.9%
August	8	8	-1.2%	7	7	0.0%	7	7	0.0%	6	6	0.0%	6	6	0.0%	6	6	0.0%	7	7	-0.3%
September	7	7	0.0%	7	7	0.0%	7	7	0.0%	6	6	0.0%	6	6	0.0%	6	6	0.0%	7	7	0.0%
Average AF/yr	323,945	323,151	-0.2%	68,685	67,691	-1.4%	79,702	79,194	-0.6%	117,207	117,731	0.4%	84,242	83,468	-0.9%	4,108	4,101	-0.2%	138,785	138,264	-0.4%

Yuba River above New Colgate Power House (Average monthly flow, cfs)																					
Month	Wet			Above Normal			Below Normal			Dry			Critical			Extremely Critical			Average All Years		
	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change
October	60	71	19.3%	56	64	14.2%	52	62	17.7%	47	50	6.6%	36	37	1.8%	27	27	0.0%	52	59	13.7%
November	159	175	9.6%	142	157	10.8%	80	98	21.9%	162	172	6.1%	45	52	15.3%	48	48	0.4%	134	147	10.0%
December	1,069	1,085	1.5%	307	329	7.0%	165	187	13.2%	693	730	5.4%	118	128	7.8%	178	179	0.2%	543	566	4.1%
January	2,437	2,454	0.7%	704	726	3.1%	1,434	1,456	1.5%	303	321	6.1%	646	655	1.4%	995	995	0.0%	1,131	1,149	1.6%
February	896	907	1.2%	359	378	5.4%	938	957	2.0%	1,686	1,702	0.9%	171	186	8.5%	401	424	5.8%	838	855	1.9%
March	1,153	1,167	1.2%	637	652	2.4%	406	429	5.7%	1,179	1,190	0.9%	1,988	1,992	0.2%	687	707	3.0%	954	968	1.5%
April	1,482	1,520	2.5%	303	335	10.4%	238	259	8.9%	172	189	10.2%	105	107	1.9%	59	51	-13.6%	503	528	5.0%
May	1,845	1,894	2.7%	456	481	5.5%	238	254	6.5%	118	132	11.1%	83	72	-12.6%	88	71	-18.7%	619	641	3.7%
June	1,000	1,032	3.2%	257	292	13.5%	116	140	20.5%	78	95	22.8%	55	52	-4.6%	52	44	-16.3%	340	365	7.4%
July	94	146	55.3%	60	96	58.8%	58	75	29.9%	49	59	18.6%	40	42	6.8%	26	26	0.0%	63	90	43.8%
August	57	78	36.6%	54	64	18.9%	49	51	4.4%	41	41	1.5%	35	37	4.3%	21	21	0.0%	49	57	17.2%
September	56	67	20.0%	52	56	7.2%	44	45	1.4%	39	39	0.9%	34	35	1.9%	25	25	0.1%	47	51	8.2%
Average AF/yr	623,130	640,553	2.8%	204,656	219,247	7.1%	228,262	239,960	5.1%	269,862	279,139	3.4%	204,842	207,095	1.1%	157,459	158,083	0.4%	317,162	329,487	3.9%

Yuba River near Smartsville (Average monthly flow, cfs)																					
Month	Wet			Above Normal			Below Normal			Dry			Critical			Extremely Critical			Average All Years		
	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change
October	914	911	-0.4%	873	872	0.0%	859	874	1.8%	805	805	0.0%	769	769	0.0%	292	290	-0.7%	845	845	0.1%
November	1,437	1,436	-0.1%	1,229	1,230	0.1%	852	955	12.1%	1,205	1,210	0.4%	841	841	0.0%	332	332	0.0%	1,178	1,192	1.2%
December	3,520	3,520	0.0%	1,748	1,746	-0.1%	1,410	1,442	2.2%	2,004	2,030	1.3%	879	881	0.2%	860	860	0.0%	2,110	2,119	0.4%
January	6,206	6,210	0.1%	2,757	2,760	0.1%	4,737	4,740	0.1%	1,839	1,839	0.0%	2,701	2,706	0.2%	3,029	3,029	0.0%	3,641	3,643	0.1%
February	5,014	5,017	0.1%	2,583	2,585	0.1%	4,270	4,271	0.0%	4,284	4,282	0.0%	2,033	2,038	0.3%	3,437	3,438	0.0%	3,734	3,735	0.0%
March	4,809	4,805	-0.1%	3,017	3,014	-0.1%	2,912	2,913	0.0%	4,304	4,299	-0.1%	4,668	4,665	-0.1%	5,192	5,197	0.1%	3,897	3,895	-0.1%
April	6,168	6,130	-0.6%	2,998	2,995	-0.1%	1,917	1,906	-0.6%	1,172	1,174	0.1%	1,071	1,071	0.0%	415	415	0.0%	2,931	2,920	-0.4%
May	6,893	6,933	0.6%	4,067	4,065	-0.1%	3,168	3,088	-2.5%	1,610	1,601	-0.6%	1,479	1,479	0.0%	606	606	0.0%	3,743	3,737	-0.2%
June	5,510	5,525	0.3%	3,862	3,874	0.3%	2,606	2,536	-2.7%	1,441	1,423	-1.2%	1,277	1,277	0.0%	676	676	0.0%	3,242	3,235	-0.2%
July	3,088	3,097	0.3%	2,420	2,419	0.0%	1,815	1,781	-1.9%	1,416	1,416	0.0%	1,363	1,363	0.0%	543	543	0.0%	2,135	2,131	-0.1%
August	2,312	2,296	-0.7%	1,769	1,758	-0.6%	1,402	1,437	2.5%	1,168	1,168	0.0%	1,079	1,079	0.0%	402	402	0.0%	1,619	1,617	-0.1%
September	994	990	-0.4%	918	917	-0.1%	866	898	3.7%	774	774	0.0%	720	720	0.0%	201	201	0.0%	863	867	0.4%
Average AF/yr	2,823,890	2,824,166	0.0%	1,703,165	1,702,881	0.0%	1,611,008	1,612,505	0.1%	1,319,552	1,319,509	0.0%	1,141,046	1,141,503	0.0%	959,191	959,503	0.0%	1,802,257	1,802,248	0.0%

*Water Year Classifications based on Smartsville Index

Model Output Summary - Flows

Yuba River near Marysville (Average monthly flow, cfs)																					
Month	Wet			Above Normal			Below Normal			Dry			Critical			Extremely Critical			Average All Years		
	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change	Base	Alt	Change
October	588	585	-0.6%	539	539	0.0%	516	531	3.0%	469	469	0.0%	412	412	0.0%	243	242	-0.6%	516	517	0.2%
November	1,147	1,146	-0.1%	931	932	0.1%	534	637	19.2%	913	918	0.5%	500	500	0.0%	289	289	0.0%	884	898	1.5%
December	3,560	3,561	0.0%	1,662	1,660	-0.1%	1,361	1,392	2.3%	1,927	1,953	1.3%	774	776	0.2%	951	951	0.0%	2,064	2,073	0.5%
January	6,849	6,853	0.0%	2,928	2,930	0.1%	5,172	5,175	0.1%	2,030	2,029	0.0%	3,115	3,119	0.1%	4,077	4,077	0.0%	4,002	4,005	0.1%
February	5,884	5,887	0.0%	2,940	2,942	0.0%	4,827	4,829	0.0%	4,873	4,872	0.0%	2,170	2,176	0.2%	3,813	3,815	0.0%	4,276	4,277	0.0%
March	5,491	5,488	-0.1%	3,498	3,495	-0.1%	3,428	3,429	0.0%	4,974	4,969	-0.1%	5,381	5,377	-0.1%	5,808	5,814	0.1%	4,494	4,491	-0.1%
April	6,885	6,847	-0.6%	3,203	3,200	-0.1%	1,738	1,727	-0.6%	895	896	0.2%	770	770	0.0%	256	256	0.0%	3,040	3,030	-0.3%
May	6,512	6,552	0.6%	3,560	3,558	-0.1%	2,498	2,418	-3.2%	883	874	-1.0%	745	745	0.0%	245	245	0.0%	3,178	3,172	-0.2%
June	4,723	4,738	0.3%	3,046	3,057	0.4%	1,737	1,667	-4.0%	567	549	-3.1%	400	400	0.0%	245	245	0.0%	2,416	2,409	-0.3%
July	2,075	2,084	0.4%	1,406	1,405	0.0%	855	821	-4.0%	456	456	0.0%	400	400	0.0%	70	70	0.0%	1,157	1,154	-0.3%
August	1,425	1,408	-1.2%	897	887	-1.2%	725	760	4.8%	490	490	0.0%	400	400	0.0%	70	70	0.0%	842	840	-0.2%
September	676	672	-0.6%	604	603	-0.1%	598	630	5.3%	505	505	0.0%	450	450	0.0%	70	70	0.0%	573	576	0.6%
Average AF/yr	2,755,457	2,755,733	0.0%	1,517,342	1,517,057	0.0%	1,437,201	1,438,698	0.1%	1,132,410	1,132,367	0.0%	936,979	937,437	0.0%	967,849	968,193	0.0%	1,648,248	1,648,240	0.0%

*Water Year Classifications based on Smartsville Index