

General Assumptions		
Model Configuration		
Model Scenario:	Base Case	RP081513
Water Balance/Operations Model Version:	1.16.2	1.16.2
Scenario Run Date:	9/23/2013	9/23/2013
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	RP081513
Flow Requirements below Log Cabin Dam:	Existing FERC License	RP081513
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:

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

RP081513														
WY Classification	Oct	Nov	Dec	Jan	Feb	Mar	Apr 1-Apr 15	Apr 16-30	May	Jun	Jul 1-15	Jul 16-31	Aug	Sep
Critical	50	50	50	50	50	50	60	60	60	60	60	50	50	50
Dry	50	50	50	50	50	70	70	70	70	70	70	50	50	50
Below Normal	50	70	70	70	70	100	120	120	120	120	120	70	60	50
Above Normal	60	100	100	100	100	120	140	140	140	140	140	100	80	60
Wet	60	120	120	120	120	120	140	140	140	140	140	120	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

RP081513														
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
Critical	6	6	6	6	12	12	18	18	18	18	18	6	6	6
Dry	6	10	10	10	16	16	18	18	18	18	18	10	6	6
Below Normal	6	15	15	15	20	20	32	32	32	32	32	15	6	6
Above Normal	8	20	20	20	30	30	55	55	55	55	55	20	8	8
Wet	8	25	25	25	40	40	55	55	55	55	55	25	8	8

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

Base Case																
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	
RP081513																
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)	1,718,376	1,677,978	-2.4%	1,335,725	1,291,088	-3.3%	1,193,193	1,164,503	-2.4%	848,636	831,245	-2.0%	784,804	772,017	-1.6%	500,059	490,324	-1.9%	1,235,011	1,202,381	-32,630	-2.6%
Narrows 2 Powerhouse Generation (Average MWh/yr)	263,358	261,841	-0.6%	191,247	191,218	0.0%	162,914	163,974	0.7%	100,544	100,587	0.0%	75,640	75,923	0.4%	88,577	88,784	0.0%	172,730	172,493	-237	-0.1%
Total YRDP Generation (Average MWh/yr)	1,981,734	1,939,819	-2.1%	1,526,972	1,482,306	-2.9%	1,356,107	1,328,477	-2.0%	949,180	931,832	-1.8%	860,444	847,940	-1.5%	588,636	579,108	-1.6%	1,407,741	1,374,874	-32,867	-2.3%
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)	138,636	172,198	24.2%	50,773	85,105	67.6%	52,119	75,972	45.8%	62,765	74,324	18.4%	51,401	62,586	21.8%	45,949	54,279	18.1%	73,689	99,172	25,482	34.6%
MYR Near Confluence with NYR (Avg. AF/yr)	263,946	306,802	16.2%	115,910	159,135	37.3%	126,094	153,994	22.1%	132,428	145,541	9.9%	105,417	117,504	11.5%	128,087	137,789	7.6%	154,660	186,075	31,415	20.3%
Oregon Creek and North Yuba River																						
Oregon Creek below Log Cabin Dam (Avg. AF/yr)	34,871	44,164	26.6%	12,931	21,824	68.8%	16,530	20,576	24.5%	18,561	20,115	8.4%	15,903	16,806	5.7%	20,306	21,679	6.8%	20,211	26,144	5,933	29.4%
NYR below New Bullards Bar Dam (Avg. AF/yr)	337,941	332,070	-1.7%	71,138	67,189	-5.6%	85,135	83,831	-1.5%	124,062	124,191	0.1%	89,001	88,299	-0.8%	4,108	4,100	-0.2%	145,398	142,573	-2,826	-1.9%
Yuba River																						
Yuba River above New Colgate PH (Avg. AF/yr)	637,255	674,240	5.8%	207,464	246,741	18.9%	233,695	260,290	11.4%	276,474	289,717	4.8%	209,322	220,707	5.4%	156,375	166,070	6.2%	323,820	352,409	28,590	8.8%
Yuba River near Smartsville (Avg. AF/yr)	2,823,908	2,825,215	0.0%	1,702,676	1,703,394	0.0%	1,611,037	1,612,422	0.1%	1,320,265	1,317,647	-0.2%	1,141,016	1,141,558	0.0%	958,919	959,005	0.0%	1,802,258	1,802,234	-24	0.0%
Yuba River near Marysville (Avg. AF/yr)	2,755,475	2,756,782	0.0%	1,516,852	1,517,570	0.0%	1,437,230	1,438,615	0.1%	1,133,123	1,130,506	-0.2%	936,949	937,491	0.1%	967,609	967,759	0.0%	1,648,250	1,648,228	-22	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	651,415	-0.1%	643,499	646,627	0.5%	647,587	654,915	1.1%	575,007	577,948	0.5%	243,527	242,961	-0.2%	243,527	242,961	-0.2%	610,381	612,797	2,416	0.4%

*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	52,955	-1.8%	51,558	51,511	-0.1%	50,800	51,563	1.5%	47,421	47,056	-0.8%	45,398	45,313	-0.2%	12,869	12,355	-4.0%	49,738	49,483	-0.5%
November	63,447	62,264	-1.9%	54,834	54,011	-1.5%	40,424	46,657	15.4%	49,439	49,167	-0.6%	44,120	43,334	-1.8%	10,722	10,317	-3.8%	52,133	52,217	0.2%
December	97,951	94,318	-3.7%	64,466	61,595	-4.5%	57,033	56,855	-0.3%	52,664	51,756	-1.7%	29,393	28,318	-3.7%	10,671	10,110	-5.3%	65,258	63,148	-3.2%
January	138,548	134,598	-2.9%	97,118	96,147	-1.0%	129,155	127,098	-1.6%	63,981	64,965	1.5%	59,241	57,968	-2.1%	6,639	6,096	-8.2%	98,877	97,465	-1.4%
February	164,112	164,128	0.0%	92,947	90,413	-2.7%	140,598	138,593	-1.4%	72,087	71,519	-0.8%	87,525	86,810	-0.8%	117,397	115,498	-1.6%	111,697	110,429	-1.1%
March	166,946	159,214	-4.6%	98,303	93,497	-4.9%	111,040	108,004	-2.7%	120,203	118,559	-1.2%	95,227	94,028	-1.3%	214,026	212,181	-0.9%	123,964	119,730	-3.4%
April	189,607	182,098	-4.0%	131,513	121,851	-7.3%	75,507	67,298	-10.9%	41,266	36,849	-10.7%	51,568	48,455	-6.0%	15,354	13,602	-11.4%	107,576	100,423	-6.6%
May	216,735	212,629	-1.9%	199,130	190,001	-4.6%	165,206	153,642	-7.0%	93,711	89,099	-4.9%	91,713	89,150	-2.8%	22,931	21,407	-6.6%	162,732	156,007	-4.1%
June	218,176	215,073	-1.4%	204,643	196,460	-4.0%	150,482	141,042	-6.3%	89,690	86,198	-3.9%	80,585	79,175	-1.7%	33,172	32,513	-2.0%	161,194	155,652	-3.4%
July	193,272	188,984	-2.2%	165,191	160,414	-2.9%	124,480	120,568	-3.1%	95,053	94,479	-0.6%	89,798	89,501	-0.3%	28,563	28,500	0.0%	141,152	137,976	-2.3%
August	155,643	152,799	-1.8%	120,461	118,985	-1.2%	95,085	97,520	2.6%	76,952	76,248	-0.9%	68,378	68,194	-0.3%	20,161	20,152	0.0%	108,662	107,758	-0.8%
September	60,024	58,918	-1.8%	55,561	56,203	1.2%	53,383	55,663	4.3%	46,350	45,350	-2.2%	41,858	41,770	-0.2%	7,554	7,545	-0.1%	52,026	52,095	0.1%
Average MWh/	1,718,376	1,677,978	-2.4%	1,335,725	1,291,088	-3.3%	1,193,193	1,164,503	-2.4%	848,636	831,245	-2.0%	784,804	772,017	-1.6%	500,059	490,324	-1.9%	1,235,011	1,202,381	-2.6%

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	3,968	8.0%	2,893	3,657	26.4%	1,425	1,395	-2.1%	0	0	0.0%	0	0	0.0%	3,002	3,168	5.5%
November	5,080	5,083	0.1%	4,092	4,209	2.8%	382	1,627	325.8%	2,338	2,299	-1.7%	0	0	0.0%	0	0	0.0%	3,096	3,277	5.8%
December	15,428	15,486	0.4%	7,791	7,960	2.2%	7,735	8,654	11.9%	5,572	5,609	0.7%	1,847	1,848	0.0%	4,744	4,745	0.0%	8,651	8,839	2.2%
January	23,957	23,857	-0.4%	15,371	15,750	2.5%	24,883	24,967	0.3%	10,543	10,910	3.5%	11,525	11,714	1.6%	20,264	20,575	1.5%	17,404	17,611	1.2%
February	28,802	28,594	-0.7%	16,275	16,178	-0.6%	23,341	23,176	-0.7%	14,687	14,806	0.8%	11,473	11,476	0.0%	27,211	27,137	-0.3%	19,750	19,672	-0.4%
March	30,074	29,609	-1.5%	18,722	18,826	0.6%	20,904	20,794	-0.5%	23,950	24,087	0.6%	13,018	13,109	0.7%	36,356	36,327	-0.1%	22,917	22,860	-0.3%
April	33,770	33,900	0.4%	24,221	24,366	0.6%	13,295	13,140	-1.2%	6,553	6,198	-5.4%	5,095	5,095	0.0%	0	0	0.0%	18,850	18,823	-0.1%
May	36,478	36,567	0.2%	34,083	33,778	-0.9%	26,259	25,039	-4.6%	9,640	9,604	-0.4%	8,662	8,662	0.0%	0	0	0.0%	25,407	25,143	-1.0%
June	33,746	33,708	-0.1%	30,823	30,353	-1.5%	18,836	17,871	-5.1%	8,458	8,422	-0.4%	8,188	8,188	0.0%	0	0	0.0%	22,393	22,086	-1.4%
July	26,123	25,665	-1.8%	19,658	19,167	-2.5%	12,131	11,964	-1.4%	8,461	8,461	0.0%	8,461	8,461	0.0%	0	0	0.0%	16,219	15,939	-1.7%
August	18,536	18,078	-2.5%	11,539	11,289	-2.2%	9,206	9,171	-0.4%	7,976	7,976	0.0%	7,369	7,369	0.0%	0	0	0.0%	11,365	11,180	-1.6%
September	6,561	6,546	-0.2%	4,997	5,375	7.6%	3,048	3,912	28.4%	940	819	-12.9%	0	0	0.0%	0	0	0.0%	3,677	3,893	5.9%
Average MWh/	263,358	261,841	-0.6%	191,247	191,218	0.0%	162,914	163,974	0.7%	100,544	100,587	0.0%	75,640	75,923	0.4%	88,577	88,784	0.2%	172,730	172,493	-0.1%

Model Output Summary - Miscellaneous Values

End of September New Bullards Bar Reservoir Storage (AF)			
WY Classification	Base	Alt	Change
Wet	652,111	651,415	-0.1%
Above Normal	643,499	646,627	0.5%
Below Normal	647,587	654,915	1.1%
Dry	575,007	577,948	0.5%
Critical	495,674	493,931	-0.4%
Extremely Critical	243,527	242,961	-0.2%
Average All Years	610,381	612,797	0.4%

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	23	64.3%
Above Normal	162	188	16.0%
Below Normal	0	0	0.0%
Dry	147	146	-0.7%
Critical	97	96	-1.0%
Extremely Critical	2	3	50.0%
Total All Years	422	456	8.1%

Recurrence of North Yuba Index Year Types (Years)			
Flow Sched.	Base	Alt	Change
Sched. 1	23	21	-2
Sched. 2	8	10	2
Sched. 3	2	2	0
Sched. 4	6	5	-1
Sched. 5	1	2	1
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	1,886	0.1%
Below Normal	1,887	1,889	0.1%
Dry	1,866	1,866	0.0%
Critical	1,842	1,842	0.0%
Extremely Critical	1,738	1,738	0.0%
Average All Years	1,875	1,876	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	189	-1
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	290	292	2
Critical	188	185	-3
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	47	38.2%	33	42	29.2%	31	39	26.9%	27	31	14.9%	24	26	9.6%	17	17	0.0%	30	39	27.0%
November	70	89	26.1%	57	75	32.6%	33	48	46.8%	86	98	13.8%	24	37	55.6%	22	31	36.7%	60	76	26.5%
December	259	311	20.3%	106	153	44.8%	48	80	65.3%	142	160	12.5%	32	51	59.8%	38	55	43.1%	137	174	27.3%
January	472	529	12.2%	111	164	47.2%	273	307	12.6%	63	83	32.7%	230	249	8.2%	302	321	6.2%	222	263	18.6%
February	179	247	38.1%	84	146	74.6%	148	184	24.1%	312	331	6.2%	26	49	89.7%	57	83	45.5%	160	207	29.6%
March	157	232	47.9%	98	162	64.7%	48	85	75.7%	222	240	8.1%	336	358	6.4%	173	196	12.9%	153	202	32.1%
April	374	431	15.3%	57	150	164.0%	47	125	169.2%	38	73	92.7%	31	63	103.2%	31	53	70.0%	118	183	54.3%
May	457	500	9.5%	129	206	59.0%	99	165	66.3%	47	73	56.0%	38	63	65.8%	38	53	39.5%	170	221	30.2%
June	189	261	38.4%	68	149	120.6%	44	108	144.0%	38	64	66.8%	31	51	62.4%	31	42	33.5%	81	139	72.2%
July	38	98	160.0%	33	75	128.3%	33	53	61.5%	29	40	37.5%	24	31	28.2%	17	17	0.4%	32	65	101.4%
August	33	58	76.6%	33	48	45.9%	32	37	15.0%	27	29	6.8%	23	26	12.8%	13	13	0.0%	30	42	38.4%
September	33	47	43.9%	33	41	25.0%	30	32	4.9%	26	27	3.3%	23	25	6.9%	15	16	1.4%	30	36	21.1%
Average AF/yr	138,636	172,198	24.2%	50,773	85,105	67.6%	52,119	75,972	45.8%	62,765	74,324	18.4%	51,401	62,586	21.8%	45,949	54,279	18.1%	73,689	99,172	34.6%

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	59	18.9%	46	53	15.3%	43	50	16.0%	38	41	8.4%	30	30	2.2%	21	21	0.0%	43	49	14.2%
November	135	151	12.2%	117	134	14.0%	64	77	20.2%	141	152	7.1%	37	49	32.2%	38	46	21.5%	113	127	12.5%
December	531	592	11.5%	216	270	24.6%	132	167	27.0%	275	294	7.1%	93	112	20.4%	138	154	11.4%	285	327	14.8%
January	906	973	7.4%	259	320	23.4%	654	693	6.1%	192	215	12.0%	554	571	3.2%	840	859	2.3%	486	533	9.7%
February	546	624	14.4%	249	321	29.0%	403	444	10.1%	657	678	3.3%	105	128	22.0%	303	328	8.3%	420	474	12.9%
March	451	551	22.3%	334	416	24.3%	224	271	21.1%	526	551	4.7%	625	651	4.2%	557	585	4.9%	418	482	15.3%
April	721	811	12.4%	215	352	63.9%	182	283	55.3%	132	177	33.6%	82	125	52.2%	49	80	62.4%	289	381	31.6%
May	645	726	12.6%	239	357	49.6%	198	284	43.2%	97	131	34.6%	69	103	50.2%	72	97	34.0%	274	353	28.6%
June	246	354	44.1%	110	225	104.9%	77	150	95.4%	65	93	44.0%	47	66	42.2%	44	55	24.4%	119	198	66.6%
July	60	127	110.7%	50	92	85.8%	48	66	37.9%	41	50	20.8%	33	36	9.9%	20	20	0.0%	48	81	68.8%
August	47	69	46.1%	46	56	22.9%	41	43	5.8%	33	34	1.8%	29	31	6.7%	15	15	0.0%	41	49	21.5%
September	46	57	23.2%	44	48	9.3%	36	37	1.7%	32	32	1.1%	28	29	2.8%	19	19	0.6%	39	43	10.0%
Average AF/yr	263,946	306,802	16.2%	115,910	159,135	37.3%	126,094	153,994	22.1%	132,428	145,541	9.9%	105,417	117,504	11.5%	128,087	137,789	7.6%	154,660	186,075	20.3%

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	5	-41.3%	7	5	-34.4%	6	4	-25.4%	4	4	-18.3%	4	2	-42.7%	2	2	0.0%	6	4	-33.3%
November	19	18	-9.7%	17	15	-11.7%	8	6	-28.6%	18	17	-9.5%	6	5	-24.9%	4	4	-0.8%	16	14	-11.9%
December	91	100	9.3%	29	35	20.5%	16	20	25.0%	44	45	3.9%	11	11	-1.0%	11	11	-6.4%	44	49	10.8%
January	153	163	6.4%	32	40	25.0%	118	124	4.6%	25	28	9.8%	103	102	-1.2%	157	157	0.2%	79	85	7.7%
February	93	104	11.2%	29	39	34.5%	55	60	9.1%	108	110	1.9%	7	7	-2.0%	36	36	-1.9%	64	70	10.6%
March	63	89	40.2%	35	53	50.3%	17	28	62.7%	69	76	9.7%	92	96	4.7%	94	99	5.2%	53	68	28.4%
April	83	115	39.3%	13	57	338.5%	11	33	195.6%	10	20	90.4%	8	19	137.5%	8	17	113.3%	27	54	101.3%
May	31	69	122.3%	16	58	254.6%	15	35	130.6%	12	19	62.1%	9	19	101.9%	9	19	102.1%	18	45	152.5%
June	11	47	321.0%	11	45	300.4%	11	21	88.7%	10	13	30.0%	8	8	0.5%	8	8	4.0%	11	31	195.2%
July	9	15	69.8%	9	9	2.4%	9	7	-25.1%	7	5	-32.2%	6	3	-57.4%	1	1	-4.6%	8	9	4.6%
August	9	5	-40.6%	9	4	-55.0%	5	3	-46.1%	4	2	-34.6%	3	2	-35.3%	1	1	0.0%	6	3	-46.3%
September	8	4	-45.2%	7	3	-55.0%	3	2	-27.0%	3	2	-18.8%	3	2	-29.4%	2	2	-5.7%	5	3	-44.0%
Average AF/yr	34,871	44,164	26.6%	12,931	21,824	68.8%	16,530	20,576	24.5%	18,561	20,115	8.4%	15,903	16,806	5.7%	20,306	21,679	6.8%	20,211	26,144	29.4%

*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	535	533	-0.3%	76	71	-7.3%	7	7	0.6%	408	428	5.1%	6	6	0.0%	6	6	0.0%	245	248	1.0%
January	1,509	1,501	-0.5%	400	394	-1.5%	744	742	-0.3%	70	70	-0.4%	6	6	-0.7%	6	6	0.0%	601	597	-0.7%
February	244	219	-10.3%	60	53	-10.4%	481	475	-1.4%	1,015	1,010	-0.5%	35	34	-2.9%	6	6	0.0%	362	352	-2.8%
March	624	597	-4.3%	236	219	-6.9%	120	117	-2.1%	574	559	-2.5%	1,362	1,351	-0.8%	7	7	-1.6%	467	451	-3.4%
April	683	684	0.1%	32	30	-5.6%	7	7	0.0%	6	6	0.0%	6	6	0.0%	6	6	0.0%	163	163	-0.3%
May	1,176	1,176	0.0%	190	181	-4.5%	7	7	0.0%	6	6	0.0%	6	6	0.0%	6	6	0.0%	321	319	-0.8%
June	737	701	-4.9%	141	120	-15.2%	31	20	-34.0%	6	6	0.0%	6	6	0.0%	6	6	0.0%	213	197	-7.7%
July	28	27	-6.5%	8	8	-0.4%	7	7	-0.3%	6	6	0.0%	6	6	0.0%	6	6	0.0%	12	11	-3.6%
August	8	8	-0.7%	7	7	0.0%	7	7	0.0%	6	6	0.0%	6	6	0.0%	6	6	0.0%	7	7	-0.2%
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	337,941	332,070	-1.7%	71,138	67,189	-5.6%	85,135	83,831	-1.5%	124,062	124,191	0.1%	89,001	88,299	-0.8%	4,108	4,100	-0.2%	145,398	142,573	-1.9%

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	69	15.8%	56	63	12.7%	52	59	13.1%	47	50	6.8%	36	37	1.8%	27	27	0.0%	52	58	11.7%
November	159	176	10.3%	142	158	11.6%	80	93	16.2%	162	172	6.2%	45	57	26.4%	48	56	17.0%	134	148	10.6%
December	1,136	1,196	5.2%	324	372	14.7%	165	201	21.6%	717	758	5.6%	118	137	16.0%	178	194	8.9%	571	615	7.8%
January	2,524	2,584	2.4%	704	759	7.8%	1,501	1,538	2.5%	303	325	7.5%	646	663	2.7%	995	1,014	1.9%	1,160	1,203	3.7%
February	897	950	6.0%	362	428	18.3%	962	996	3.6%	1,765	1,781	1.0%	167	189	13.2%	391	416	6.4%	859	903	5.1%
March	1,165	1,239	6.3%	648	713	10.0%	406	450	11.0%	1,191	1,202	0.9%	2,064	2,080	0.8%	678	705	4.0%	968	1,016	5.0%
April	1,508	1,598	6.0%	303	439	44.7%	238	338	42.3%	172	216	25.9%	105	148	41.0%	59	90	52.3%	509	600	17.9%
May	1,882	1,964	4.3%	464	574	23.6%	238	324	35.9%	118	152	28.3%	83	117	41.8%	88	112	28.1%	629	705	12.0%
June	1,000	1,072	7.2%	263	357	35.7%	116	179	54.0%	78	106	36.7%	55	75	35.8%	52	63	20.8%	342	405	18.3%
July	94	159	69.0%	60	103	70.5%	58	76	31.5%	49	58	17.3%	40	43	8.3%	26	26	0.0%	63	95	51.9%
August	57	79	37.8%	54	65	19.3%	49	51	4.9%	41	41	1.5%	35	37	5.5%	21	21	0.0%	49	58	17.8%
September	56	66	19.3%	52	56	7.8%	44	45	1.4%	39	39	0.9%	34	35	2.3%	25	25	0.4%	47	51	8.3%
Average AF/yr	637,255	674,240	5.8%	207,464	246,741	18.9%	233,695	260,290	11.4%	276,474	289,717	4.8%	209,322	220,707	5.4%	156,375	166,070	6.2%	323,820	352,409	8.8%

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	910	-0.4%	873	878	0.7%	859	874	1.8%	805	802	-0.4%	769	769	0.0%	291	282	-3.2%	844	846	0.2%
November	1,437	1,436	-0.1%	1,229	1,233	0.3%	852	954	12.0%	1,205	1,210	0.4%	841	841	0.0%	332	333	0.3%	1,178	1,193	1.2%
December	3,532	3,539	0.2%	1,756	1,763	0.4%	1,410	1,444	2.4%	2,004	2,031	1.3%	879	883	0.4%	860	866	0.7%	2,115	2,130	0.7%
January	6,194	6,206	0.2%	2,748	2,789	1.5%	4,737	4,743	0.1%	1,839	1,875	2.0%	2,701	2,698	-0.1%	3,029	3,046	0.5%	3,635	3,660	0.7%
February	5,014	5,062	1.0%	2,584	2,610	1.0%	4,270	4,272	0.1%	4,283	4,289	0.1%	2,030	2,041	0.5%	3,433	3,420	-0.4%	3,733	3,756	0.6%
March	4,809	4,770	-0.8%	3,017	3,014	-0.1%	2,912	2,914	0.0%	4,318	4,294	-0.5%	4,671	4,669	0.0%	5,191	5,191	0.0%	3,901	3,885	-0.4%
April	6,168	6,130	-0.6%	2,991	2,997	0.2%	1,917	1,905	-0.7%	1,172	1,153	-1.6%	1,071	1,071	0.0%	415	415	0.0%	2,929	2,916	-0.4%
May	6,893	6,931	0.5%	4,060	4,042	-0.4%	3,168	3,096	-2.3%	1,610	1,583	-1.7%	1,479	1,479	0.0%	606	606	0.0%	3,740	3,726	-0.4%
June	5,510	5,546	0.6%	3,868	3,848	-0.5%	2,606	2,533	-2.8%	1,441	1,420	-1.4%	1,277	1,277	0.0%	676	676	0.0%	3,243	3,230	-0.4%
July	3,088	3,085	-0.1%	2,420	2,385	-1.4%	1,815	1,774	-2.2%	1,416	1,416	0.0%	1,363	1,363	0.0%	543	543	0.0%	2,135	2,117	-0.8%
August	2,312	2,288	-1.1%	1,769	1,757	-0.7%	1,402	1,433	2.2%	1,168	1,158	-0.8%	1,079	1,079	0.0%	402	402	0.0%	1,619	1,612	-0.4%
September	994	989	-0.5%	918	930	1.4%	866	898	3.6%	774	759	-1.9%	720	720	0.0%	201	201	0.0%	863	868	0.5%
Average AF/yr	2,823,908	2,825,215	0.0%	1,702,676	1,703,394	0.0%	1,611,037	1,612,422	0.1%	1,320,265	1,317,647	-0.2%	1,141,016	1,141,558	0.0%	958,919	959,005	0.0%	1,802,258	1,802,234	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	-0.7%	539	545	1.1%	516	531	3.0%	469	466	-0.6%	412	412	0.0%	243	235	-3.4%	516	518	0.4%
November	1,147	1,146	-0.1%	931	935	0.4%	534	637	19.2%	913	918	0.5%	500	500	0.0%	289	290	0.3%	884	899	1.6%
December	3,573	3,580	0.2%	1,670	1,677	0.4%	1,361	1,394	2.5%	1,927	1,953	1.4%	774	778	0.5%	951	957	0.6%	2,070	2,084	0.7%
January	6,837	6,849	0.2%	2,919	2,959	1.4%	5,172	5,178	0.1%	2,029	2,065	1.8%	3,115	3,112	-0.1%	4,077	4,093	0.4%	3,997	4,021	0.6%
February	5,884	5,932	0.8%	2,941	2,967	0.9%	4,827	4,829	0.0%	4,872	4,879	0.1%	2,167	2,178	0.5%	3,810	3,796	-0.4%	4,275	4,297	0.5%
March	5,491	5,452	-0.7%	3,499	3,496	-0.1%	3,428	3,429	0.0%	4,988	4,964	-0.5%	5,383	5,381	0.0%	5,808	5,807	0.0%	4,497	4,482	-0.3%
April	6,885	6,847	-0.6%	3,196	3,202	0.2%	1,738	1,726	-0.7%	895	876	-2.1%	770	770	0.0%	256	256	0.0%	3,038	3,026	-0.4%
May	6,512	6,549	0.6%	3,553	3,534	-0.5%	2,498	2,425	-2.9%	883	856	-3.0%	745	745	0.0%	245	245	0.0%	3,176	3,162	-0.4%
June	4,723	4,758	0.8%	3,051	3,032	-0.6%	1,737	1,664	-4.2%	567	546	-3.6%	400	400	0.0%	245	245	0.0%	2,418	2,404	-0.6%
July	2,075	2,072	-0.1%	1,406	1,371	-2.5%	855	814	-4.8%	456	456	0.0%	400	400	0.0%	70	70	0.0%	1,157	1,140	-1.5%
August	1,425	1,400	-1.7%	897	885	-1.4%	725	756	4.2%	490	480	-2.0%	400	400	0.0%	70	70	0.0%	842	835	-0.8%
September	676	671	-0.7%	604	616	2.1%	598	630	5.2%	505	490	-3.0%	450	450	0.0%	70	70	0.0%	573	577	0.7%
Average AF/yr	2,755,475	2,756,782	0.0%	1,516,852	1,517,570	0.0%	1,437,230	1,438,615	0.1%	1,133,123	1,130,506	-0.2%	936,949	937,491	0.1%	967,609	967,759	0.0%	1,648,250	1,648,228	0.0%

*Water Year Classifications based on Smartsville Index