

General Assumptions		
Model Configuration		
Model Scenario:	Base Case	RP072414
Water Balance/Operations Model Version:	1.21	1.21
Scenario Run Date:	8/1/2014	8/1/2014
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	Existing FERC License
Water-Year Classification below Log Cabin Dam:	Existing FERC License	Existing FERC License
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	Existing FERC License
Flow Requirements below Log Cabin Dam:	Existing FERC License	Existing FERC License
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: Spill Cessation at LCD and OHD: Close Tunnels from NBB Spill After 4/1 Until 9/30 Flood Control Outlet		

Timeseries Assumptions														
Flow Requirements below Our House Dam (cfs)														
<u>Base Case</u>														
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
<u>Existing FERC License</u>														
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

Flow Requirements below Log Cabin Dam (cfs)														
<u>Base Case</u>														
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
<u>Existing FERC License</u>														
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

Flow Requirements below New Bullards Bar Dam (cfs)														
<u>Base Case</u>														
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
<u>Existing FERC License</u>														
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	
RP072414																
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)	1,693,098	1,640,860	-3.1%	1,340,403	1,319,766	-1.5%	1,187,932	1,186,038	-0.2%	838,770	838,770	0.0%	759,266	759,266	0.0%	468,112	468,112	0.0%	1,224,946	1,206,658	-18,288	-1.5%
Narrows 2 Powerhouse Generation (Average MWh/yr)	266,250	266,250	0.0%	196,118	196,118	0.0%	166,736	166,736	0.0%	100,300	100,300	0.0%	77,684	77,684	0.0%	84,053	84,053	0.0%	175,437	175,437	0	0.0%
Total YRDP Generation (Average MWh/yr)	1,959,348	1,907,110	-2.7%	1,536,521	1,515,884	-1.3%	1,354,668	1,352,774	-0.1%	939,070	939,070	0.0%	836,951	836,951	0.0%	552,165	552,165	0.0%	1,400,383	1,382,095	-18,288	-1.3%
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)	138,609	235,165	69.7%	50,740	77,997	53.7%	52,080	55,178	5.9%	62,731	62,731	0.0%	51,374	51,374	0.0%	45,922	45,922	0.0%	73,657	103,949	30,292	41.1%
MYR Near Confluence with NYR (Avg. AF/yr)	263,791	374,357	41.9%	115,866	145,693	25.7%	126,012	129,409	2.7%	132,303	132,303	0.0%	105,383	105,383	0.0%	128,083	128,083	0.0%	154,571	188,796	34,226	22.1%
Oregon Creek and North Yuba River																						
Oregon Creek below Log Cabin Dam (Avg. AF/yr)	34,863	48,873	40.2%	12,923	15,492	19.9%	16,522	16,820	1.8%	18,554	18,554	0.0%	15,898	15,898	0.0%	20,309	20,309	0.0%	20,204	24,137	3,933	19.5%
NYR below New Bullards Bar Dam (Avg. AF/yr)	361,914	306,625	-15.3%	73,318	64,811	-11.6%	86,652	85,707	-1.1%	135,128	135,128	0.0%	92,916	92,916	0.0%	3,982	3,982	0.0%	154,774	139,802	-14,972	-9.7%
Yuba River																						
Yuba River above New Colgate PH (Avg. AF/yr)	661,026	716,303	8.4%	209,599	230,919	10.2%	235,115	237,568	1.0%	287,382	287,382	0.0%	213,203	213,203	0.0%	156,253	156,253	0.0%	333,086	352,340	19,254	5.8%
Yuba River near Smartsville (Avg. AF/yr)	2,823,038	2,823,038	0.0%	1,709,879	1,709,879	0.0%	1,607,244	1,607,244	0.0%	1,321,203	1,321,203	0.0%	1,124,056	1,124,056	0.0%	934,102	934,102	0.0%	1,802,229	1,802,229	0	0.0%
Yuba River near Marysville (Avg. AF/yr)	2,754,605	2,754,605	0.0%	1,524,055	1,524,055	0.0%	1,433,436	1,433,436	0.0%	1,134,061	1,134,061	0.0%	919,990	919,990	0.0%	912,170	912,170	0.0%	1,647,475	1,647,475	0	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%	50%	50%	0%	50%	50%	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)	653,722	653,722	0.0%	644,498	644,498	0.0%	649,472	649,472	0.0%	582,985	582,985	0.0%	240,747	240,747	0.0%	240,747	240,747	0.0%	613,024	613,024	0	0.0%

*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	53,731	53,700	-0.1%	51,398	51,377	0.0%	50,676	50,676	0.0%	47,405	47,405	0.0%	45,232	45,232	0.0%	29,336	29,336	0.0%	50,013	49,999	0.0%
November	60,434	60,434	0.0%	54,763	54,763	0.0%	40,866	40,866	0.0%	46,294	46,294	0.0%	43,968	43,968	0.0%	25,016	25,016	0.0%	51,077	51,077	0.0%
December	92,113	92,113	0.0%	62,413	62,413	0.0%	57,060	57,060	0.0%	49,221	49,221	0.0%	24,744	24,744	0.0%	13,153	13,153	0.0%	62,150	62,150	0.0%
January	132,765	132,765	0.0%	97,209	97,209	0.0%	128,360	128,360	0.0%	65,508	65,508	0.0%	58,871	58,871	0.0%	1,438	1,438	0.0%	97,580	97,580	0.0%
February	158,941	158,941	0.0%	90,473	90,473	0.0%	132,394	132,394	0.0%	72,724	72,724	0.0%	84,410	84,410	0.0%	83,213	83,213	0.0%	107,737	107,737	0.0%
March	167,301	167,301	0.0%	100,990	100,990	0.0%	117,434	117,434	0.0%	119,312	119,312	0.0%	88,638	88,638	0.0%	187,743	187,743	0.0%	124,403	124,403	0.0%
April	187,702	171,213	-8.8%	145,166	139,536	-3.9%	80,599	80,599	0.0%	46,245	46,245	0.0%	60,299	60,299	0.0%	15,329	15,329	0.0%	113,964	108,559	-4.7%
May	212,696	194,785	-8.4%	190,181	184,450	-3.0%	153,341	153,341	0.0%	81,519	81,519	0.0%	73,233	73,233	0.0%	23,048	23,048	0.0%	153,246	147,497	-3.8%
June	218,814	209,310	-4.3%	205,226	198,589	-3.2%	153,527	152,208	-0.9%	91,408	91,408	0.0%	80,401	80,401	0.0%	33,341	33,341	0.0%	162,333	157,949	-2.7%
July	193,193	186,602	-3.4%	166,588	164,604	-1.2%	124,486	124,068	-0.3%	95,198	95,198	0.0%	89,591	89,591	0.0%	28,741	28,741	0.0%	141,600	139,463	-1.5%
August	155,573	154,572	-0.6%	120,555	120,035	-0.4%	95,806	95,654	-0.2%	77,599	77,599	0.0%	68,192	68,192	0.0%	20,241	20,241	0.0%	108,913	108,506	-0.4%
September	59,835	59,125	-1.2%	55,442	55,327	-0.2%	53,380	53,376	0.0%	46,337	46,337	0.0%	41,687	41,687	0.0%	7,513	7,513	0.0%	51,930	51,738	-0.4%
Average MWh/	1,693,098	1,640,860	-3.1%	1,340,403	1,319,766	-1.5%	1,187,932	1,186,038	-0.2%	838,770	838,770	0.0%	759,266	759,266	0.0%	468,112	468,112	0.0%	1,224,946	1,206,658	-1.5%

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	4,803	0.0%	3,695	3,695	0.0%	2,893	2,893	0.0%	1,425	1,425	0.0%	0	0	0.0%	0	0	0.0%	3,009	3,009	0.0%
November	5,205	5,205	0.0%	4,100	4,100	0.0%	764	764	0.0%	2,138	2,138	0.0%	0	0	0.0%	0	0	0.0%	3,132	3,132	0.0%
December	15,737	15,737	0.0%	7,877	7,877	0.0%	8,624	8,624	0.0%	4,971	4,971	0.0%	1,355	1,355	0.0%	4,091	4,091	0.0%	8,678	8,678	0.0%
January	24,365	24,365	0.0%	15,352	15,352	0.0%	25,096	25,096	0.0%	10,754	10,754	0.0%	11,442	11,442	0.0%	19,019	19,019	0.0%	17,532	17,532	0.0%
February	29,554	29,554	0.0%	16,502	16,502	0.0%	23,877	23,877	0.0%	15,135	15,135	0.0%	11,478	11,478	0.0%	23,274	23,274	0.0%	20,074	20,074	0.0%
March	31,172	31,172	0.0%	21,160	21,160	0.0%	22,301	22,301	0.0%	23,175	23,175	0.0%	13,197	13,197	0.0%	37,669	37,669	0.0%	24,004	24,004	0.0%
April	34,485	34,485	0.0%	26,749	26,749	0.0%	14,090	14,090	0.0%	7,471	7,471	0.0%	7,733	7,733	0.0%	0	0	0.0%	20,319	20,319	0.0%
May	35,811	35,811	0.0%	32,973	32,973	0.0%	25,271	25,271	0.0%	9,188	9,188	0.0%	8,461	8,461	0.0%	0	0	0.0%	24,650	24,650	0.0%
June	33,859	33,859	0.0%	31,157	31,157	0.0%	19,396	19,396	0.0%	8,666	8,666	0.0%	8,188	8,188	0.0%	0	0	0.0%	22,651	22,651	0.0%
July	26,153	26,153	0.0%	19,962	19,962	0.0%	12,162	12,162	0.0%	8,461	8,461	0.0%	8,461	8,461	0.0%	0	0	0.0%	16,327	16,327	0.0%
August	18,545	18,545	0.0%	11,593	11,593	0.0%	9,214	9,214	0.0%	7,976	7,976	0.0%	7,369	7,369	0.0%	0	0	0.0%	11,385	11,385	0.0%
September	6,561	6,561	0.0%	4,997	4,997	0.0%	3,048	3,048	0.0%	940	940	0.0%	0	0	0.0%	0	0	0.0%	3,677	3,677	0.0%
Average MWh/	266,250	266,250	0.0%	196,118	196,118	0.0%	166,736	166,736	0.0%	100,300	100,300	0.0%	77,684	77,684	0.0%	84,053	84,053	0.0%	175,437	175,437	0.0%

Model Output Summary - Miscellaneous Values

End of September New Bullards Bar Reservoir Storage (AF)			
WY Classification	Base	Alt	Change
Wet	653,722	653,722	0.0%
Above Normal	644,498	644,498	0.0%
Below Normal	649,472	649,472	0.0%
Dry	582,985	582,985	0.0%
Critical	495,854	495,854	0.0%
Extremely Critical	240,747	240,747	0.0%
Average All Years	613,024	613,024	0.0%

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	50%	50%	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	13	13	0.0%
Above Normal	96	96	0.0%
Below Normal	8	8	0.0%
Dry	26	26	0.0%
Critical	0	0	0.0%
Extremely Critical	0	0	0.0%
Total All Years	143	143	0.0%

Recurrence of North Yuba Index Year Types (Years)			
Flow Sched.	Base	Alt	Change
Sched. 1	23	23	0
Sched. 2	8	8	0
Sched. 3	2	2	0
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	1,888	1,888	0.0%
Above Normal	1,886	1,886	0.0%
Below Normal	1,887	1,887	0.0%
Dry	1,868	1,868	0.0%
Critical	1,843	1,843	0.0%
Extremely Critical	1,737	1,737	0.0%
Average All Years	1,876	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	180	180	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	348	348	0
Above Normal	355	355	0
Below Normal	365	365	0
Dry	294	294	0
Critical	191	191	0
Extremely Critical	60	60	0
Average All Years	322	322	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	35	2.4%	33	33	1.2%	31	31	0.0%	27	27	0.0%	24	24	0.0%	17	17	0.0%	30	31	1.1%
November	70	70	0.0%	57	57	0.0%	33	33	0.0%	86	86	0.0%	24	24	0.0%	22	22	0.0%	60	60	0.0%
December	259	259	0.0%	106	106	0.0%	48	48	0.0%	142	142	0.0%	32	32	0.0%	38	38	0.0%	137	137	0.0%
January	472	472	0.0%	111	111	0.0%	273	273	0.0%	63	63	0.0%	230	230	0.0%	302	302	0.0%	222	222	0.0%
February	179	179	0.0%	84	84	0.0%	148	148	0.0%	312	312	0.0%	26	26	0.0%	57	57	0.0%	160	160	0.0%
March	157	157	0.0%	98	98	0.0%	48	48	0.0%	222	222	0.0%	336	336	0.0%	173	173	0.0%	153	153	0.0%
April	374	764	104.1%	57	152	166.3%	47	47	0.0%	38	38	0.0%	31	31	0.0%	31	31	0.0%	118	234	97.6%
May	457	1039	127.6%	129	251	94.0%	99	99	0.0%	47	47	0.0%	38	38	0.0%	38	38	0.0%	170	336	98.0%
June	188	631	234.7%	67	246	265.6%	43	80	84.5%	38	38	0.0%	31	31	0.0%	31	31	0.0%	80	239	198.0%
July	38	183	383.8%	33	77	133.4%	33	44	34.3%	29	29	0.0%	24	24	0.0%	17	17	0.0%	32	80	147.8%
August	33	57	72.6%	33	42	28.5%	32	35	9.4%	27	27	0.0%	23	23	0.0%	13	13	0.0%	30	39	28.5%
September	33	46	40.1%	33	37	11.4%	30	31	1.9%	26	26	0.0%	23	23	0.0%	15	15	0.0%	30	34	13.9%
Average AF/yr	138,609	235,165	69.7%	50,740	77,997	53.7%	52,080	55,178	5.9%	62,731	62,731	0.0%	51,374	51,374	0.0%	45,922	45,922	0.0%	73,657	103,949	41.1%

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	50	0.9%	46	47	0.6%	43	43	0.0%	38	38	0.0%	30	30	0.0%	21	21	0.0%	43	43	0.5%
November	135	135	0.0%	117	117	0.0%	64	64	0.0%	141	141	0.0%	37	37	0.0%	38	38	0.0%	113	113	0.0%
December	531	531	0.0%	216	216	0.0%	132	132	0.0%	275	275	0.0%	93	93	0.0%	138	138	0.0%	285	285	0.0%
January	906	906	0.0%	259	259	0.0%	653	653	0.0%	192	192	0.0%	554	554	0.0%	840	840	0.0%	486	486	0.0%
February	546	546	0.0%	249	249	0.0%	403	403	0.0%	657	657	0.0%	105	105	0.0%	303	303	0.0%	420	420	0.0%
March	451	451	0.0%	334	334	0.0%	224	224	0.0%	526	526	0.0%	625	625	0.0%	557	557	0.0%	418	418	0.0%
April	721	1206	67.2%	215	330	53.7%	182	182	0.0%	131	131	0.0%	82	82	0.0%	49	49	0.0%	289	432	49.4%
May	645	1334	107.0%	239	374	56.5%	198	198	0.0%	97	97	0.0%	69	69	0.0%	72	72	0.0%	274	468	70.8%
June	244	718	194.3%	109	301	175.9%	76	119	56.7%	64	64	0.0%	46	46	0.0%	44	44	0.0%	118	289	145.4%
July	59	209	252.1%	50	93	87.9%	48	59	23.8%	41	41	0.0%	33	33	0.0%	20	20	0.0%	48	96	101.4%
August	47	69	45.4%	46	53	16.3%	41	43	5.4%	33	33	0.0%	29	29	0.0%	15	15	0.0%	41	48	18.2%
September	46	57	21.9%	44	46	3.7%	36	36	0.2%	32	32	0.0%	28	28	0.0%	19	19	0.0%	39	42	7.1%
Average AF/yr	263,791	374,357	41.9%	115,866	145,693	25.7%	126,012	129,409	2.7%	132,303	132,303	0.0%	105,383	105,383	0.0%	128,083	128,083	0.0%	154,571	188,796	22.1%

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	8	-4.3%	7	7	-1.4%	6	6	0.0%	4	4	0.0%	4	4	0.0%	2	2	0.0%	6	6	-1.9%
November	19	19	0.0%	17	17	0.0%	8	8	0.0%	18	18	0.0%	6	6	0.0%	4	4	0.0%	16	16	0.0%
December	91	91	0.0%	29	29	0.0%	16	16	0.0%	44	44	0.0%	11	11	0.0%	11	11	0.0%	44	44	0.0%
January	153	153	0.0%	32	32	0.0%	118	118	0.0%	25	25	0.0%	103	103	0.0%	157	157	0.0%	79	79	0.0%
February	93	93	0.0%	29	29	0.0%	55	55	0.0%	108	108	0.0%	7	7	0.0%	36	36	0.0%	64	64	0.0%
March	63	63	0.0%	35	35	0.0%	17	17	0.0%	69	69	0.0%	92	92	0.0%	94	94	0.0%	53	53	0.0%
April	83	178	114.8%	13	34	159.1%	11	11	0.0%	10	10	0.0%	8	8	0.0%	8	8	0.0%	27	54	101.7%
May	31	138	341.9%	16	30	80.9%	15	15	0.0%	12	12	0.0%	9	9	0.0%	9	9	0.0%	18	45	155.7%
June	11	42	285.5%	11	24	122.5%	11	17	58.1%	10	10	0.0%	8	8	0.0%	8	8	0.0%	10	23	116.3%
July	9	14	50.3%	9	9	-4.8%	9	9	0.2%	7	7	0.0%	6	6	0.0%	1	1	0.0%	8	9	10.6%
August	9	6	-29.2%	9	7	-23.1%	5	5	-15.8%	4	4	0.0%	3	3	0.0%	1	1	0.0%	6	5	-20.3%
September	8	5	-36.8%	7	5	-28.0%	3	3	-15.9%	3	3	0.0%	3	3	0.0%	2	2	0.0%	5	4	-25.5%
Average AF/yr	34,863	48,873	40.2%	12,923	15,492	19.9%	16,522	16,820	1.8%	18,554	18,554	0.0%	15,898	15,898	0.0%	20,309	20,309	0.0%	20,204	24,137	19.5%

*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	0.0%	6	6	0.0%	6	6	0.0%	7	7	0.0%
December	646	646	0.0%	110	110	0.0%	7	7	0.0%	482	482	0.0%	6	6	0.0%	6	6	0.0%	299	299	0.0%
January	1,521	1,521	0.0%	401	401	0.0%	757	757	0.0%	70	70	0.0%	6	6	0.0%	6	6	0.0%	606	606	0.0%
February	444	444	0.0%	59	59	0.0%	494	494	0.0%	1,061	1,061	0.0%	34	34	0.0%	6	6	0.0%	423	423	0.0%
March	671	671	0.0%	247	247	0.0%	119	119	0.0%	638	638	0.0%	1,426	1,426	0.0%	6	6	0.0%	501	501	0.0%
April	681	456	-33.1%	31	8	-75.4%	7	7	0.0%	6	6	0.0%	6	6	0.0%	6	6	0.0%	162	105	-35.1%
May	1,230	840	-31.8%	190	138	-27.4%	7	7	0.0%	6	6	0.0%	6	6	0.0%	6	6	0.0%	333	231	-30.7%
June	726	446	-38.6%	130	65	-50.4%	33	17	-47.8%	6	6	0.0%	6	6	0.0%	6	6	0.0%	207	123	-40.8%
July	27	8	-70.7%	7	7	0.0%	7	7	0.0%	6	6	0.0%	6	6	0.0%	6	6	0.0%	11	7	-37.6%
August	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%
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	361,914	306,625	-15.3%	73,318	64,811	-11.6%	86,652	85,707	-1.1%	135,128	135,128	0.0%	92,916	92,916	0.0%	3,982	3,982	0.0%	154,774	139,802	-9.7%

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	60	0.7%	56	56	0.5%	52	52	0.0%	47	47	0.0%	36	36	0.0%	27	27	0.0%	52	52	0.4%
November	159	159	0.0%	142	142	0.0%	80	80	0.0%	162	162	0.0%	45	45	0.0%	48	48	0.0%	134	134	0.0%
December	1,248	1,248	0.0%	358	358	0.0%	165	165	0.0%	792	792	0.0%	118	118	0.0%	178	178	0.0%	625	625	0.0%
January	2,536	2,536	0.0%	706	706	0.0%	1,513	1,513	0.0%	302	302	0.0%	646	646	0.0%	995	995	0.0%	1,165	1,165	0.0%
February	1,097	1,097	0.0%	361	361	0.0%	975	975	0.0%	1,811	1,811	0.0%	167	167	0.0%	391	391	0.0%	920	920	0.0%
March	1,212	1,212	0.0%	660	660	0.0%	405	405	0.0%	1,256	1,256	0.0%	2,129	2,129	0.0%	676	676	0.0%	1,002	1,002	0.0%
April	1,506	1,765	17.2%	303	394	30.3%	238	238	0.0%	170	170	0.0%	105	105	0.0%	59	59	0.0%	508	594	16.9%
May	1,936	2,235	15.4%	465	548	17.8%	238	238	0.0%	118	118	0.0%	83	83	0.0%	88	88	0.0%	641	733	14.3%
June	987	1,181	19.6%	251	378	50.2%	118	145	23.1%	77	77	0.0%	54	54	0.0%	52	52	0.0%	336	422	25.8%
July	91	222	143.7%	60	103	73.2%	57	69	19.9%	49	49	0.0%	40	40	0.0%	26	26	0.0%	62	106	71.7%
August	56	78	38.0%	54	62	13.7%	49	51	4.5%	41	41	0.0%	35	35	0.0%	21	21	0.0%	49	56	15.1%
September	56	66	18.3%	52	54	3.1%	44	44	0.1%	39	39	0.0%	34	34	0.0%	25	25	0.0%	47	50	5.9%
Average AF/yr	661,026	716,303	8.4%	209,599	230,919	10.2%	235,115	237,568	1.0%	287,382	287,382	0.0%	213,203	213,203	0.0%	156,253	156,253	0.0%	333,086	352,340	5.8%

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	914	0.0%	873	873	0.0%	860	860	0.0%	805	805	0.0%	769	769	0.0%	588	588	0.0%	852	852	0.0%
November	1,381	1,381	0.0%	1,229	1,229	0.0%	861	861	0.0%	1,147	1,147	0.0%	841	841	0.0%	607	607	0.0%	1,160	1,160	0.0%
December	3,550	3,550	0.0%	1,757	1,757	0.0%	1,409	1,409	0.0%	2,030	2,030	0.0%	812	812	0.0%	915	915	0.0%	2,122	2,122	0.0%
January	6,087	6,087	0.0%	2,753	2,753	0.0%	4,733	4,733	0.0%	1,857	1,857	0.0%	2,698	2,698	0.0%	2,923	2,923	0.0%	3,611	3,611	0.0%
February	5,124	5,124	0.0%	2,520	2,520	0.0%	4,101	4,101	0.0%	4,333	4,333	0.0%	1,979	1,979	0.0%	2,903	2,903	0.0%	3,714	3,714	0.0%
March	4,860	4,860	0.0%	3,075	3,075	0.0%	3,020	3,020	0.0%	4,360	4,360	0.0%	4,634	4,634	0.0%	4,730	4,730	0.0%	3,940	3,940	0.0%
April	6,103	6,103	0.0%	3,195	3,195	0.0%	1,993	1,993	0.0%	1,245	1,245	0.0%	1,201	1,201	0.0%	417	417	0.0%	3,015	3,015	0.0%
May	6,935	6,935	0.0%	3,944	3,944	0.0%	3,015	3,015	0.0%	1,448	1,448	0.0%	1,230	1,230	0.0%	611	611	0.0%	3,637	3,637	0.0%
June	5,510	5,510	0.0%	3,869	3,869	0.0%	2,650	2,650	0.0%	1,463	1,463	0.0%	1,277	1,277	0.0%	681	681	0.0%	3,255	3,255	0.0%
July	3,088	3,088	0.0%	2,443	2,443	0.0%	1,817	1,817	0.0%	1,417	1,417	0.0%	1,363	1,363	0.0%	549	549	0.0%	2,143	2,143	0.0%
August	2,313	2,313	0.0%	1,773	1,773	0.0%	1,414	1,414	0.0%	1,176	1,176	0.0%	1,079	1,079	0.0%	406	406	0.0%	1,624	1,624	0.0%
September	994	994	0.0%	919	919	0.0%	869	869	0.0%	774	774	0.0%	720	720	0.0%	203	203	0.0%	864	864	0.0%
Average AF/yr	2,823,038	2,823,038	0.0%	1,709,879	1,709,879	0.0%	1,607,244	1,607,244	0.0%	1,321,203	1,321,203	0.0%	1,124,056	1,124,056	0.0%	934,102	934,102	0.0%	1,802,229	1,802,229	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	588	0.0%	540	540	0.0%	517	517	0.0%	469	469	0.0%	412	412	0.0%	400	400	0.0%	521	521	0.0%
November	1,091	1,091	0.0%	930	930	0.0%	543	543	0.0%	854	854	0.0%	500	500	0.0%	406	406	0.0%	861	861	0.0%
December	3,591	3,591	0.0%	1,671	1,671	0.0%	1,359	1,359	0.0%	1,952	1,952	0.0%	706	706	0.0%	862	862	0.0%	2,073	2,073	0.0%
January	6,730	6,730	0.0%	2,923	2,923	0.0%	5,168	5,168	0.0%	2,047	2,047	0.0%	3,112	3,112	0.0%	3,941	3,941	0.0%	3,972	3,972	0.0%
February	5,994	5,994	0.0%	2,878	2,878	0.0%	4,658	4,658	0.0%	4,923	4,923	0.0%	2,116	2,116	0.0%	3,276	3,276	0.0%	4,256	4,256	0.0%
March	5,542	5,542	0.0%	3,557	3,557	0.0%	3,536	3,536	0.0%	5,030	5,030	0.0%	5,347	5,347	0.0%	5,343	5,343	0.0%	4,537	4,537	0.0%
April	6,820	6,820	0.0%	3,399	3,399	0.0%	1,814	1,814	0.0%	967	967	0.0%	900	900	0.0%	256	256	0.0%	3,125	3,125	0.0%
May	6,553	6,553	0.0%	3,437	3,437	0.0%	2,345	2,345	0.0%	721	721	0.0%	497	497	0.0%	245	245	0.0%	3,072	3,072	0.0%
June	4,723	4,723	0.0%	3,053	3,053	0.0%	1,781	1,781	0.0%	589	589	0.0%	400	400	0.0%	245	245	0.0%	2,430	2,430	0.0%
July	2,074	2,074	0.0%	1,429	1,429	0.0%	857	857	0.0%	457	457	0.0%	400	400	0.0%	70	70	0.0%	1,165	1,165	0.0%
August	1,426	1,426	0.0%	901	901	0.0%	737	737	0.0%	498	498	0.0%	400	400	0.0%	70	70	0.0%	847	847	0.0%
September	676	676	0.0%	605	605	0.0%	601	601	0.0%	505	505	0.0%	450	450	0.0%	70	70	0.0%	574	574	0.0%
Average AF/yr	2,754,605	2,754,605	0.0%	1,524,055	1,524,055	0.0%	1,433,436	1,433,436	0.0%	1,134,061	1,134,061	0.0%	919,990	919,990	0.0%	912,170	912,170	0.0%	1,647,475	1,647,475	0.0%

*Water Year Classifications based on Smartsville Index