

General Assumptions		
Model Configuration		
Model Scenario:	Base Case	RP081514B
Water Balance/Operations Model Version:	1.21.2	1.21.2
Scenario Run Date:	8/20/2014	8/20/2014
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?	Bulletin 120	Bulletin 120
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	Smartsville Index
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	RP092413
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:		
	Uses Bulletin 120 as the basis for hydrologic index calculation. This is different from the FLA Base Case, which uses Perfect Foresight.	Includes: Spill Cessation at LCD and OHD: Close the tunnels after April 1 when NY1 is greater than 1,787 TAF

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 1-15	Jun 16-30	July	August	Sep
Extremely Critical	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Critical	50	50	50	50	50	50	60	60	60	60	60	50	50	50
Dry	50	50	50	50	50	50	70	70	70	70	70	50	50	50
Below Normal	50	50	70	70	70	70	120	120	120	120	120	70	70	60
Above Normal	60	60	100	100	100	100	140	140	140	140	140	100	100	80
Wet	60	60	120	120	120	120	140	140	140	140	140	120	120	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
Extremely Critical	6	6	6	6	6	12	18	18	18	18	18	6	6	6
Critical	6	6	6	6	6	12	18	18	18	18	18	6	6	6
Dry	6	6	10	10	10	16	18	18	18	18	18	10	10	6
Below Normal	6	6	15	15	15	20	32	32	32	32	32	15	15	6
Above Normal	8	8	20	20	20	30	55	55	55	55	55	20	20	8
Wet	8	8	25	25	25	40	55	55	55	55	55	25	25	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
RP092413														
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
Extremely Critical	90	90	90	90	100	120	140	140	120	120	120	100	90	90
Critical	90	90	90	90	100	120	140	140	120	120	120	100	90	90
Dry	90	90	90	90	100	120	140	140	120	120	120	100	90	90
Below Normal	90	90	90	90	100	120	140	140	120	120	120	100	90	90
Above Normal	90	90	90	90	100	120	220	220	220	220	220	100	90	90
Wet	90	90	90	90	100	250	300	300	300	300	300	150	90	90

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	
RP081514B																
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)	1,739,938	1,530,124	-12.1%	1,534,428	1,354,105	-11.8%	1,163,803	1,055,251	-9.3%	749,956	655,234	-12.6%	573,219	481,029	-16.1%	236,057	169,958	-28.0%	1,224,648	1,077,532	-147,116	-12.0%
Narrows 2 Powerhouse Generation (Average MWh/yr)	268,980	265,543	-1.3%	230,303	228,145	-0.9%	169,425	170,021	0.4%	82,085	82,250	0.2%	43,031	41,774	-2.9%	25,875	27,737	0.0%	174,972	173,724	-1,248	-0.7%
Total YRDP Generation (Average MWh/yr)	2,008,918	1,795,667	-10.6%	1,764,731	1,582,250	-10.3%	1,333,227	1,225,272	-8.1%	832,042	737,484	-11.4%	616,250	522,803	-15.2%	261,931	197,695	-24.5%	1,399,620	1,251,256	-148,364	-10.6%
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)	124,092	266,929	115.1%	76,756	146,985	91.5%	71,163	95,143	33.7%	45,151	56,484	25.1%	18,538	28,363	53.0%	38,065	45,895	20.6%	73,823	132,903	59,080	80.0%
MYR Near Confluence with NYR (Avg. AF/yr)	231,598	394,674	70.4%	171,561	252,428	47.1%	155,170	183,278	18.1%	100,931	113,706	12.7%	35,330	45,862	29.8%	90,161	99,366	10.2%	154,785	222,459	67,675	43.7%
Oregon Creek and North Yuba River																						
Oregon Creek below Log Cabin Dam (Avg. AF/yr)	28,714	48,953	70.5%	22,731	33,369	46.8%	20,043	24,172	20.6%	14,094	15,536	10.2%	4,382	5,089	16.1%	14,253	15,629	9.7%	20,251	28,846	8,595	42.4%
NYR below New Bullards Bar Dam (Avg. AF/yr)	326,091	352,513	8.1%	183,668	255,411	39.1%	125,931	193,110	53.3%	44,843	116,124	159.0%	3,644	68,723	1786.1%	3,982	76,225	1814.3%	154,281	215,626	61,344	39.8%
Yuba River																						
Yuba River above New Colgate PH (Avg. AF/yr)	588,503	778,001	32.2%	383,414	536,024	39.8%	306,115	401,402	31.1%	162,076	246,132	51.9%	43,827	119,439	172.5%	108,941	190,389	74.8%	332,808	461,827	129,019	38.8%
Yuba River near Smartsville (Avg. AF/yr)	2,735,639	2,738,472	0.1%	2,168,820	2,164,631	-0.2%	1,714,841	1,716,679	0.1%	1,048,481	1,051,057	0.2%	648,391	637,980	-1.6%	569,400	583,557	2.5%	1,802,292	1,802,318	25	0.0%
Yuba River near Marysville (Avg. AF/yr)	2,649,658	2,652,491	0.1%	2,051,164	2,046,975	-0.2%	1,544,492	1,546,330	0.1%	828,321	830,896	0.3%	367,566	357,154	-2.8%	513,609	527,389	2.7%	1,647,538	1,647,554	16	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)	653,515	651,678	-0.3%	643,224	641,848	-0.2%	636,008	635,858	0.0%	579,007	576,461	-0.4%	264,276	262,760	-0.6%	264,276	262,760	-0.6%	607,528	607,594	66	0.0%

*Water Year 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	46	36.2%	33	43	31.5%	31	39	25.9%	28	32	14.2%	22	24	6.7%	17	17	0.0%	31	39	26.7%
November	70	88	24.8%	58	78	33.2%	33	48	45.7%	81	92	14.5%	42	53	27.5%	22	31	36.7%	60	76	26.1%
December	171	223	30.1%	118	165	40.6%	180	211	17.1%	145	162	11.8%	26	45	74.5%	38	55	43.1%	137	174	26.7%
January	254	312	23.0%	264	315	19.5%	304	337	11.1%	132	151	14.2%	24	46	92.7%	302	321	6.2%	222	262	18.2%
February	219	293	34.0%	191	248	29.9%	208	243	16.8%	58	79	36.2%	24	41	71.8%	24	36	51.8%	161	203	26.2%
March	255	321	26.1%	251	304	21.2%	58	95	65.1%	94	114	21.0%			0.0%	75	101	34.6%	153	195	27.5%
April	368	1080	193.3%	65	373	477.8%	45	125	174.5%	39	73	86.2%	31	63	103.2%	31	53	70.0%	119	385	223.4%
May	397	1085	172.9%	127	471	271.2%	184	245	33.2%	48	73	52.3%	38	63	65.8%	38	53	39.5%	170	440	158.7%
June	188	687	264.3%	69	268	288.0%	43	110	153.2%	39	63	63.8%	31	52	69.0%	31	42	35.5%	81	267	231.3%
July	38	191	404.6%	33	82	149.4%	33	56	69.3%	29	39	34.1%	24	32	35.2%	17	17	0.4%	32	87	170.0%
August	33	58	75.8%	33	48	45.9%	32	39	20.5%	27	29	7.0%	23	27	14.6%	13	13	0.0%	30	42	38.5%
September	33	48	45.9%	33	42	28.2%	31	33	7.7%	26	27	3.6%	22	24	6.6%	15	16	1.4%	30	37	22.6%
Average AF/yr	124,092	266,929	115.1%	76,756	146,985	91.5%	71,163	95,143	33.7%	45,151	56,484	25.1%	18,538	28,363	53.0%	38,065	45,895	20.6%	73,823	132,903	80.0%

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	49	58	18.0%	47	55	16.8%	43	49	14.3%	40	42	7.1%	27	28	1.9%	21	21	0.0%	43	49	13.9%
November	132	148	11.6%	125	143	14.2%	62	75	20.1%	129	139	7.5%	77	87	12.9%	38	46	21.5%	113	127	12.2%
December	361	421	16.4%	269	323	20.2%	324	359	10.8%	285	303	6.4%	65	85	29.5%	138	154	11.4%	285	326	14.5%
January	567	635	12.0%	495	555	12.0%	680	719	5.8%	348	368	5.8%	89	111	24.6%	840	859	2.3%	486	532	9.5%
February	530	618	16.6%	544	609	11.8%	520	560	7.8%	181	204	12.7%	39	55	41.3%	41	52	27.1%	421	469	11.5%
March	562	653	16.1%	648	716	10.3%	259	307	18.5%	297	325	9.2%	177	209	17.8%	177	209	17.8%	419	474	13.2%
April	700	1566	123.8%	234	621	165.7%	190	291	53.3%	121	164	35.4%	84	127	51.1%	49	80	62.4%	290	618	113.4%
May	559	1352	141.9%	248	646	160.8%	299	379	26.9%	98	131	32.6%	68	102	51.0%	72	97	34.0%	275	589	114.6%
June	241	769	218.5%	111	332	199.7%	81	159	96.3%	65	92	42.0%	47	69	47.9%	44	55	25.6%	118	320	171.0%
July	59	215	264.7%	50	98	97.8%	48	70	44.5%	41	49	19.3%	33	38	14.2%	20	20	0.0%	48	102	113.8%
August	47	68	45.3%	46	56	23.2%	41	45	9.3%	33	34	2.3%	29	31	6.6%	15	15	0.0%	41	49	21.6%
September	46	58	26.4%	44	49	11.8%	38	38	2.2%	32	32	1.0%	27	27	2.8%	19	19	0.6%	39	43	11.5%
Average AF/yr	231,598	394,674	70.4%	171,561	252,428	47.1%	155,170	183,278	18.1%	100,931	113,706	12.7%	35,330	45,862	29.8%	90,161	99,366	10.2%	154,785	222,459	43.7%

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	8	5	-40.7%	7	5	-33.5%	6	4	-31.3%	5	4	-23.6%	3	2	-35.3%	2	2	0.0%	6	4	-33.7%
November	19	17	-11.1%	18	16	-9.6%	8	6	-29.6%	17	15	-12.1%	12	10	-12.9%	4	4	-0.8%	16	14	-12.3%
December	60	68	12.7%	44	50	14.7%	40	45	10.4%	45	46	2.8%	7	7	-1.4%	11	11	-6.4%	44	49	10.4%
January	103	112	9.1%	72	80	11.3%	108	114	5.1%	58	59	2.6%	7	6	-4.0%	157	157	0.2%	79	85	7.3%
February	79	93	17.1%	77	84	9.3%	89	94	6.3%	20	22	10.2%	7	6	-16.4%	7	5	-19.0%	64	70	9.6%
March	68	92	35.7%	90	104	15.3%	23	34	44.8%	42	50	17.7%			0.0%	23	29	24.2%	53	66	24.5%
April	81	235	192.3%	15	94	523.3%	11	33	197.1%	11	20	84.6%	8	19	137.5%	8	17	113.3%	27	90	231.7%
May	23	129	451.5%	20	73	273.6%	20	39	97.9%	12	19	58.4%	9	19	101.9%	9	19	102.1%	18	63	251.2%
June	11	40	266.7%	11	33	198.2%	11	23	106.6%	10	12	26.4%	8	9	13.5%	8	8	3.5%	10	26	148.3%
July	9	12	37.4%	9	8	-9.1%	9	7	-14.9%	7	5	-29.4%	6	3	-59.2%	1	1	-4.6%	8	8	-5.4%
August	9	5	-42.5%	8	4	-54.1%	6	3	-47.1%	4	2	-32.2%	3	2	-45.1%	1	1	0.0%	6	3	-46.4%
September	8	5	-37.1%	8	3	-54.0%	4	3	-38.1%	3	2	-21.5%	2	2	-28.5%	2	2	-5.7%	6	3	-41.6%
Average AF/yr	28,714	48,953	70.5%	22,731	33,369	46.8%	20,043	24,172	20.6%	14,094	15,536	10.2%	4,382	5,089	16.1%	14,253	15,629	9.7%	20,251	28,846	42.4%

*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	587	579	-1.4%	541	539	-0.3%	520	520	0.0%	509	509	0.0%	435	403	-7.3%	400	400	0.0%	531	526	-0.9%
November	1,074	1,073	-0.1%	980	975	-0.5%	542	543	0.1%	814	819	0.6%	622	627	0.8%	406	410	1.0%	862	862	0.0%
December	2,663	2,670	0.3%	2,060	2,055	-0.2%	2,182	2,187	0.2%	1,991	2,000	0.5%	590	597	1.1%	865	904	4.5%	2,073	2,078	0.2%
January	4,451	4,467	0.4%	4,290	4,293	0.1%	5,722	5,757	0.6%	2,721	2,718	-0.1%	724	754	4.1%	3,948	4,072	3.1%	3,925	3,940	0.4%
February	6,515	6,535	0.3%	5,858	5,815	-0.7%	4,284	4,282	0.0%	1,779	1,766	-0.7%	705	705	0.0%	568	568	0.0%	4,221	4,211	-0.2%
March	7,534	7,544	0.1%	7,262	7,249	-0.2%	2,658	2,649	-0.3%	1,961	2,017	2.9%			0.0%	1,302	1,356	4.2%	4,496	4,509	0.3%
April	6,576	6,644	1.0%	3,674	3,702	0.8%	1,995	2,002	0.4%	886	893	0.8%	762	765	0.4%	252	254	1.1%	3,105	3,131	0.8%
May	5,888	5,854	-0.6%	3,619	3,639	0.5%	3,210	3,216	0.2%	878	871	-0.8%	530	465	-12.4%	245	245	0.0%	3,137	3,130	-0.2%
June	4,672	4,740	1.5%	3,016	3,048	1.0%	2,230	2,235	0.3%	642	633	-1.4%	433	400	-7.7%	245	245	0.0%	2,468	2,488	0.8%
July	2,083	2,079	-0.2%	1,393	1,355	-2.7%	1,023	1,017	-0.6%	500	500	0.0%	433	400	-7.7%	70	70	0.0%	1,183	1,167	-1.3%
August	1,424	1,343	-5.7%	897	855	-4.8%	743	732	-1.4%	524	520	-0.9%	433	400	-7.7%	70	70	0.0%	850	815	-4.2%
September	675	666	-1.4%	603	599	-0.8%	599	597	-0.4%	531	530	-0.1%	450	433	-3.9%	70	70	0.0%	578	573	-0.9%
Average AF/yr	2,649,658	2,652,491	0.1%	2,051,164	2,046,975	-0.2%	1,544,492	1,546,330	0.1%	828,321	830,896	0.3%	367,566	357,154	-2.8%	513,609	527,389	2.7%	1,647,538	1,647,554	0.0%

*Water Year Classifications based on Smartsville Index