

**United States Bureau of Reclamation - Mid Pacific Region, Central Valley Operations Office**  
**Forecast of CVP Generation with Uncertainty Bounds Bracketing a Randomly Distributed Population**  
**Based on USBR 50 Pct Forecast -B2, Dated 10/26/2016**  
**Losses are Estimated per WAPA Contractual Provisions**  
**Uncertainty Bounded Energy Generation (All values in GWh)**

Month	Trinity	JF Carr	Spring Creek	Shasta	Keswick	Folsom	Nimbus	New Melones	Federal San Luis	O'Neill	At Plant Total	Total Losses	Total Energy at Tracy			
													Expected Proj Use	Exp Est Net CVP	Low Est Net CVP	High Est Net CVP
OCT	15	16	15	144	30	14	2	19	0	0	255	5	110	140	90	170
NOV	10	10	10	119	25	17	3	7	0	0	201	4	150	50	0	80
DEC	5	0	12	121	25	18	3	5	0	0	189	3	140	50	0	90
JAN	5	0	12	124	25	19	3	5	0	0	193	3	120	70	0	120
FEB	6	3	20	75	17	35	5	8	0	0	169	3	75	90	20	130
MAR	6	1	14	94	19	57	7	15	0	0	213	4	70	140	60	190
APR	19	16	5	153	27	75	9	39	23	0	366	6	30	330	190	420
MAY	49	2	3	176	30	81	9	49	42	4	445	8	50	390	260	470
JUN	48	27	26	254	45	72	8	47	36	2	565	10	75	480	370	550
JUL	41	34	31	253	47	73	8	45	14	0	546	10	140	400	290	460
AUG	33	35	31	246	47	55	7	39	3	0	496	9	130	360	260	420
SEP	32	31	31	194	39	42	5	32	0	0	406	7	120	280	200	330
Total	269	175	210	1953	376	558	69	310	118	6	4044	72	1210	2780	1740	3430

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**Forecast of CVP Generation**  
**Based on USBR 50 Pct Forecast -B2, Dated 10/26/2016**  
**Losses are Estimated per WAPA Contractual Provisions**  
**Expected Capacity Based on Estimated Gross Head (All values in MW)**

Month	Trinity	JF Carr	Spring Creek	Shasta	Keswick	Folsom	Nimbus	New Melones	Federal San Luis	O'Neill	At Plant Total	Total Losses	Total Capacity at Tracy			
													Expected CVP	Schd. Out	Expected Proj Use	Expected Net CVP
OCT	52	148	91	389	40	96	2	179	0	0	997	17	980	345	125	855
NOV	51	74	91	386	35	97	2	179	0	0	915	16	900	380	190	710
DEC	51	150	91	387	34	99	2	183	0	0	999	18	980	310	125	855
JAN	53	154	182	528	34	156	2	189	0	0	1298	23	1275	170	105	1170
FEB	55	154	182	556	26	167	4	198	0	0	1341	24	1315	100	90	1225
MAR	57	154	182	568	26	177	10	104	0	0	1278	23	1255	205	85	1170
APR	59	150	182	568	37	188	13	109	146	1	1453	25	1430	130	50	1380
MAY	60	147	182	568	40	204	13	233	124	5	1577	27	1550	185	75	1475
JUN	59	147	182	568	65	212	12	246	91	3	1585	27	1560	80	110	1450
JUL	115	147	182	710	66	204	12	243	60	0	1739	30	1710	0	195	1515
AUG	55	147	182	710	66	193	9	232	40	0	1635	29	1605	30	180	1425
SEP	53	148	182	694	37	186	7	223	0	0	1531	27	1505	70	175	1330

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**Forecast of CVP Generation**  
**Based on USBR 50 Pct Forecast -B2, Dated 10/26/2016**  
**Project Use Pumping**

**Expected Project Energy Use at Tracy Load Center (All values in GWh)**

Month	Tracy	Federal Banks	Contra Costa	O'Neill	Federal San Luis	San Felipe	Dos Amigos	Other Uses	Total at Tracy		
									Exp CVP PU	Expected On Peak	Expected Off Peak
OCT	57	0	3	8	23	3	3	15	110	50	60
NOV	64	0	3	14	50	2	3	13	150	70	80
DEC	57	0	3	13	57	2	3	8	140	50	95
JAN	46	0	2	11	49	1	4	9	120	40	85
FEB	33	0	2	6	20	1	5	8	75	30	45
MAR	34	0	2	5	15	1	5	8	70	30	40
APR	11	0	2	0	0	2	7	9	30	15	15
MAY	12	0	2	0	0	3	10	22	50	25	20
JUN	33	0	2	0	0	5	16	20	75	45	30
JUL	67	0	2	3	0	6	20	42	140	75	65
AUG	67	0	2	4	0	6	13	36	130	75	55
SEP	65	6	2	6	14	4	6	19	120	65	60
Total	546	6	28	69	229	35	94	208	1210	570	650

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**Forecast of CVP Generation**  
**Based on USBR 50 Pct Forecast -B2, Dated 10/26/2016**  
**Project Use Pumping**

**Expected Project Capacity Use at Tracy Load Center (All values in MW)**

Month	Tracy		Federal Banks		Contra Costa		O'Neill		Federal San Luis		San Felipe		Dos Amigos		Other On/Off
	On	Off	On	Off	On	Off	On	Off	On	Off	On	Off	On	Off	
OCT	81	81	0	0	4	4	12	12	0	79	4	4	6	6	20
NOV	96	96	0	0	4	4	20	20	42	111	3	3	6	6	17
DEC	81	81	0	0	4	4	20	20	0	181	2	2	6	6	11
JAN	66	66	0	0	3	3	16	16	0	153	1	1	6	6	12
FEB	51	51	0	0	3	3	12	12	0	76	1	1	12	12	12
MAR	51	51	0	0	3	3	8	8	0	51	2	2	12	12	11
APR	18	18	0	0	3	3	0	0	0	0	3	3	12	12	12
MAY	18	18	0	0	3	3	0	0	0	0	4	4	18	18	29
JUN	51	51	0	0	2	2	0	0	0	0	6	6	24	24	27
JUL	96	96	0	0	2	2	4	4	0	0	8	8	30	30	56
AUG	96	96	0	0	3	3	8	8	0	0	8	8	18	18	48
SEP	96	96	20	0	3	3	12	12	0	62	6	6	12	12	26

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**Forecast of CVP Generation**  
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**Losses are Estimated per WAPA Contractual Provisions**  
**Energy Generation (All values in GWh)**

Month	Trinity	JF Carr	Spring Creek	Shasta	Keswick	Folsom	Nimbus	New Melones	Federal San Luis	O'Neill	Total Losses	Total at Tracy		
												CVP	Proj Use	Net CVP
OCT	15	16	15	144	30	14	2	19	0	0	5	250	110	140
NOV	10	10	10	119	25	17	3	7	0	0	4	200	150	50
DEC	5	0	12	121	25	18	3	5	0	0	3	190	140	50
JAN	5	0	12	124	25	19	3	5	0	0	3	190	120	70
FEB	6	3	20	75	17	35	5	8	0	0	3	170	75	95
MAR	6	1	14	94	19	57	7	15	0	0	4	210	70	140
APR	19	16	5	153	27	75	9	39	23	0	6	360	30	330
MAY	49	2	3	176	30	81	9	49	42	4	8	440	50	390
JUN	48	27	26	254	45	72	8	47	36	2	10	560	75	485
JUL	41	34	31	253	47	73	8	45	14	0	10	540	140	400
AUG	33	35	31	246	47	55	7	39	3	0	9	490	130	360
SEP	32	31	31	194	39	42	5	32	0	0	7	400	120	280
Total	270	175	208	1953	374	559	69	309	118	6	71	4000	1210	2790

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**Capacity Based on Estimated Gross Head (All values in MW)**

Month	Trinity	JF Carr	Spring Creek	Shasta	Keswick	Folsom	Nimbus	New Melones	Federal San Luis	O'Neill	Tot. Cap. at Plant	Total Losses	Total Capacity at Tracy			
													CVP	Sch. Out	PU	Net CVP
OCT	52	148	91	389	40	96	2	179	0	0	997	17	980	345	125	855
NOV	51	74	91	386	35	97	2	179	0	0	915	16	900	380	190	710
DEC	51	150	91	387	34	99	2	183	0	0	999	18	980	310	125	855
JAN	53	154	182	528	34	156	2	189	0	0	1298	23	1275	170	105	1170
FEB	55	154	182	556	26	167	4	198	0	0	1341	24	1315	100	90	1225
MAR	57	154	182	568	26	177	10	104	0	0	1278	23	1255	205	85	1170
APR	59	150	182	568	37	188	13	109	146	1	1453	25	1430	130	50	1380
MAY	60	147	182	568	40	204	13	233	124	5	1577	27	1550	185	75	1475
JUN	59	147	182	568	65	212	12	246	91	3	1585	27	1560	80	110	1450
JUL	115	147	182	710	66	204	12	243	60	0	1739	30	1710	0	195	1515
AUG	55	147	182	710	66	193	9	232	40	0	1635	29	1605	30	180	1425
SEP	53	148	182	694	37	186	7	223	0	0	1531	27	1505	70	175	1330

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**Project Use Pumping**

**Project Energy Use at Tracy Load Center (All values in GWh)**

Month	Tracy	Federal Banks	Contra Costa	O'Neill	Federal San Luis	San Felipe	Dos Amigos	Other Uses	Total at Tracy		
									CVP	On Peak	Off Peak
OCT	57	0	3	8	23	3	3	15	110	50	60
NOV	64	0	3	14	50	2	3	13	150	70	80
DEC	57	0	3	13	57	2	3	8	140	50	95
JAN	46	0	2	11	49	1	4	9	120	40	85
FEB	33	0	2	6	20	1	5	8	75	30	45
MAR	34	0	2	5	15	1	5	8	70	30	40
APR	11	0	2	0	0	2	7	9	30	15	15
MAY	12	0	2	0	0	3	10	22	50	25	20
JUN	33	0	2	0	0	5	16	20	75	45	30
JUL	67	0	2	3	0	6	20	42	140	75	65
AUG	67	0	2	4	0	6	13	36	130	75	55
SEP	65	6	2	6	14	4	6	19	120	65	60
Total	546	6	28	69	229	35	94	208	1210	570	650

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**Project Use Pumping**  
**Project Capacity Use at Tracy Load Center (All values in MW)**

Month	Tracy		Federal Banks		Contra Costa		O'Neill		Federal San Luis		San Felipe		Dos Amigos		Other On/Off
	On	Off	On	Off	On	Off	On	Off	On	Off	On	Off	On	Off	
OCT	81	81	0	0	4	4	12	12	0	79	4	4	6	6	20
NOV	96	96	0	0	4	4	20	20	42	111	3	3	6	6	17
DEC	81	81	0	0	4	4	20	20	0	181	2	2	6	6	11
JAN	66	66	0	0	3	3	16	16	0	153	1	1	6	6	12
FEB	51	51	0	0	3	3	12	12	0	76	1	1	12	12	12
MAR	51	51	0	0	3	3	8	8	0	51	2	2	12	12	11
APR	18	18	0	0	3	3	0	0	0	0	3	3	12	12	12
MAY	18	18	0	0	3	3	0	0	0	0	4	4	18	18	29
JUN	51	51	0	0	2	2	0	0	0	0	6	6	24	24	27
JUL	96	96	0	0	2	2	4	4	0	0	8	8	30	30	56
AUG	96	96	0	0	3	3	8	8	0	0	8	8	18	18	48
SEP	96	96	20	0	3	3	12	12	0	62	6	6	12	12	26