

**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 9/26/2008**  
**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
SEP	45	62	54	93	29	15	2	39	0	0	339	6	110	220	160	260
OCT	23	30	40	91	27	14	2	10	0	0	237	4	120	110	70	140
NOV	22	31	27	68	20	15	2	5	0	0	190	3	105	80	10	130
DEC	12	13	14	76	20	15	2	5	0	0	157	3	120	30	0	70
JAN	5	0	11	61	15	18	3	4	0	0	117	2	135	-20	0	10
FEB	5	1	17	54	14	24	3	3	0	0	121	2	100	20	0	50
MAR	7	2	15	67	15	47	6	14	0	0	173	3	40	130	60	170
APR	25	26	15	146	29	83	10	49	14	0	397	7	40	350	190	440
MAY	81	24	26	183	36	85	10	63	25	2	535	9	55	470	310	570
JUN	69	49	46	231	47	63	7	57	33	3	605	10	55	540	420	610
JUL	48	48	46	268	55	73	8	59	7	0	612	11	130	470	350	540
AUG	26	33	31	199	42	40	5	55	0	0	431	8	130	290	210	340
Total	368	319	342	1537	349	492	60	363	79	5	3914	68	1140	2690	1780	3330

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**Forecast of CVP Generation**  
**Based on USBR 50 Pct Forecast -B2, Dated 9/26/2008**  
**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
SEP	114	74	182	409	27	94	3	275	0	0	1178	20	1160	195	150	1010
OCT	109	75	182	395	12	93	3	270	0	0	1140	20	1120	195	155	965
NOV	107	77	182	294	19	90	3	272	0	0	1044	18	1025	225	125	900
DEC	106	77	182	403	27	91	3	275	0	0	1165	20	1145	200	125	1020
JAN	54	77	182	437	21	147	2	280	0	0	1200	21	1180	150	125	1055
FEB	56	154	182	484	22	162	3	289	0	0	1350	24	1325	175	110	1215
MAR	58	154	182	526	21	176	9	150	0	0	1276	23	1255	270	55	1200
APR	60	150	91	557	40	188	14	154	127	0	1381	23	1355	280	70	1285
MAY	120	147	91	567	50	202	13	319	113	2	1625	27	1595	215	90	1505
JUN	116	147	91	558	69	211	10	329	91	4	1626	28	1600	125	80	1520
JUL	112	147	182	665	78	205	12	323	66	0	1791	31	1760	0	190	1570
AUG	107	74	182	505	59	197	7	309	0	0	1439	25	1415	5	185	1230

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**Forecast of CVP Generation**  
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**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
SEP	62	0	2	7	11	4	7	17	110	55	55
OCT	64	0	3	9	21	4	5	16	120	60	65
NOV	49	0	3	10	28	2	3	9	105	40	65
DEC	53	0	3	13	42	2	2	7	120	45	75
JAN	56	0	2	13	50	1	3	10	135	50	90
FEB	43	0	2	8	30	1	4	11	100	40	60
MAR	25	0	2	2	1	2	4	5	40	20	20
APR	19	0	2	0	0	2	6	12	40	25	15
MAY	19	0	2	0	0	3	7	26	55	30	25
JUN	21	0	2	0	0	4	12	14	55	30	20
JUL	64	0	2	5	0	5	17	40	130	75	60
AUG	64	0	2	7	8	5	10	37	130	70	60
Total	538	0	28	73	190	35	79	202	1140	540	610

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**Forecast of CVP Generation**  
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**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	
SEP	96	96	0	0	3	3	12	12	0	42	5	5	12	12	23
OCT	96	96	0	0	4	4	16	16	0	84	5	5	12	12	22
NOV	81	81	0	0	4	4	16	16	0	104	3	3	6	6	12
DEC	81	81	0	0	4	4	20	20	0	132	3	3	6	6	9
JAN	81	81	0	0	3	3	20	20	0	160	2	2	6	6	13
FEB	66	66	0	0	3	3	12	12	0	112	2	2	12	12	16
MAR	36	36	0	0	3	3	4	4	0	22	2	2	6	6	6
APR	36	36	0	0	3	3	0	0	0	0	3	3	12	12	16
MAY	36	36	0	0	3	3	0	0	0	0	4	4	12	12	34
JUN	36	36	0	0	2	2	0	0	0	0	5	5	18	18	19
JUL	96	96	0	0	2	2	8	8	0	0	7	7	24	24	54
AUG	96	96	0	0	3	3	12	12	0	42	7	7	18	18	49

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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
SEP	45	62	54	93	29	15	2	39	0	0	6	330	110	220
OCT	23	30	40	91	27	14	2	10	0	0	4	230	120	110
NOV	22	31	27	68	20	15	2	5	0	0	3	190	105	85
DEC	12	13	14	76	20	15	2	5	0	0	3	150	120	30
JAN	5	0	11	61	15	18	3	4	0	0	2	120	135	-15
FEB	5	1	17	54	14	24	3	3	0	0	2	120	100	20
MAR	7	2	15	67	15	47	6	14	0	0	3	170	40	130
APR	25	26	15	146	29	83	10	49	14	0	7	390	40	350
MAY	81	24	26	183	36	85	10	63	25	2	9	530	55	475
JUN	69	49	46	231	47	63	7	57	33	3	10	590	55	535
JUL	48	48	46	268	55	73	8	59	7	0	11	600	130	470
AUG	26	33	31	199	42	40	5	55	0	0	8	420	130	290
Total	370	320	342	1536	350	492	61	363	79	4	69	3840	1140	2700

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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
SEP	114	74	182	409	27	94	3	275	0	0	1178	20	1160	195	150	1010
OCT	109	75	182	395	12	93	3	270	0	0	1140	20	1120	195	155	965
NOV	107	77	182	294	19	90	3	272	0	0	1044	18	1025	225	125	900
DEC	106	77	182	403	27	91	3	275	0	0	1165	20	1145	200	125	1020
JAN	54	77	182	437	21	147	2	280	0	0	1200	21	1180	150	125	1055
FEB	56	154	182	484	22	162	3	289	0	0	1350	24	1325	175	110	1215
MAR	58	154	182	526	21	176	9	150	0	0	1276	23	1255	270	55	1200
APR	60	150	91	557	40	188	14	154	127	0	1381	23	1355	280	70	1285
MAY	120	147	91	567	50	202	13	319	113	2	1625	27	1595	215	90	1505
JUN	116	147	91	558	69	211	10	329	91	4	1626	28	1600	125	80	1520
JUL	112	147	182	665	78	205	12	323	66	0	1791	31	1760	0	190	1570
AUG	107	74	182	505	59	197	7	309	0	0	1439	25	1415	5	185	1230

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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
SEP	62	0	2	7	11	4	7	17	110	55	55
OCT	64	0	3	9	21	4	5	16	120	60	65
NOV	49	0	3	10	28	2	3	9	105	40	65
DEC	53	0	3	13	42	2	2	7	120	45	75
JAN	56	0	2	13	50	1	3	10	135	50	90
FEB	43	0	2	8	30	1	4	11	100	40	60
MAR	25	0	2	2	1	2	4	5	40	20	20
APR	19	0	2	0	0	2	6	12	40	25	15
MAY	19	0	2	0	0	3	7	26	55	30	25
JUN	21	0	2	0	0	4	12	14	55	30	20
JUL	64	0	2	5	0	5	17	40	130	75	60
AUG	64	0	2	7	8	5	10	37	130	70	60
Total	538	0	28	73	190	35	79	202	1140	540	610

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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	
SEP	96	96	0	0	3	3	12	12	0	42	5	5	12	12	23
OCT	96	96	0	0	4	4	16	16	0	84	5	5	12	12	22
NOV	81	81	0	0	4	4	16	16	0	104	3	3	6	6	12
DEC	81	81	0	0	4	4	20	20	0	132	3	3	6	6	9
JAN	81	81	0	0	3	3	20	20	0	160	2	2	6	6	13
FEB	66	66	0	0	3	3	12	12	0	112	2	2	12	12	16
MAR	36	36	0	0	3	3	4	4	0	22	2	2	6	6	6
APR	36	36	0	0	3	3	0	0	0	0	3	3	12	12	16
MAY	36	36	0	0	3	3	0	0	0	0	4	4	12	12	34
JUN	36	36	0	0	2	2	0	0	0	0	5	5	18	18	19
JUL	96	96	0	0	2	2	8	8	0	0	7	7	24	24	54
AUG	96	96	0	0	3	3	12	12	0	42	7	7	18	18	49