

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 90 Pct Forecast -B2, Dated 12/31/2008
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
DEC	15	19	15	64	18	12	2	11	0	0	156	3	65	90	60	110
JAN	14	18	15	56	15	11	2	5	0	0	136	2	110	20	0	50
FEB	13	15	15	51	14	10	2	4	0	0	124	2	45	80	30	110
MAR	11	12	15	60	15	12	2	18	0	0	145	3	30	110	60	150
APR	27	30	15	117	27	21	3	49	0	0	289	5	40	240	130	310
MAY	45	34	31	162	38	21	3	61	10	0	405	7	50	350	230	420
JUN	43	56	51	167	43	46	6	53	24	3	492	9	30	450	360	510
JUL	35	54	51	172	46	30	4	48	24	4	468	8	40	420	330	480
AUG	32	54	51	131	40	22	3	46	3	0	382	7	70	310	230	350
SEP	30	56	51	78	29	13	2	34	0	0	293	5	115	170	120	210
OCT	12	20	30	88	30	11	2	7	0	0	200	4	110	90	30	120
NOV	11	21	15	42	15	11	2	5	0	0	122	2	100	20	0	50
Total	288	389	355	1188	330	220	33	341	61	7	3212	57	805	2350	1580	2870

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Forecast of CVP Generation
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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
DEC	105	76	182	292	24	85	3	278	0	0	1044	18	1025	260	80	945
JAN	52	77	91	305	21	134	1	279	0	0	960	17	945	245	105	840
FEB	51	154	182	323	22	145	1	281	0	0	1159	20	1140	260	60	1080
MAR	52	154	182	459	21	158	2	141	0	0	1170	21	1150	240	55	1095
APR	53	150	91	469	37	167	4	139	0	0	1110	20	1090	250	70	1020
MAY	107	147	91	459	53	171	4	266	97	0	1396	24	1370	190	75	1295
JUN	104	147	91	428	62	166	9	251	81	4	1345	23	1320	115	45	1275
JUL	98	147	182	383	66	154	6	236	57	6	1335	23	1310	25	75	1235
AUG	90	74	182	332	56	147	5	222	24	0	1131	20	1110	5	115	995
SEP	80	74	182	295	27	95	3	209	0	0	965	17	950	170	165	785
OCT	72	75	182	268	27	95	2	205	0	0	926	16	910	190	125	785
NOV	68	77	182	261	14	93	2	207	0	0	906	16	890	185	105	785

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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
DEC	29	0	3	6	18	2	1	4	65	25	40
JAN	46	0	2	11	40	1	1	8	110	40	70
FEB	22	0	2	3	10	1	1	5	45	20	25
MAR	16	0	2	1	2	2	1	3	30	15	15
APR	20	0	2	1	0	2	3	11	40	25	15
MAY	19	0	2	0	0	3	3	22	50	25	20
JUN	12	0	2	0	0	3	6	8	30	15	15
JUL	12	2	2	0	0	4	8	12	40	25	15
AUG	36	2	2	0	0	4	5	19	70	40	30
SEP	58	2	2	8	20	3	2	17	115	55	60
OCT	53	0	3	9	24	3	1	15	110	50	60
NOV	44	0	3	10	29	2	1	8	100	35	60
Total	367	6	28	49	143	30	35	132	805	370	425

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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	
DEC	51	51	0	0	4	4	12	12	0	62	3	3	6	6	5
JAN	66	66	0	0	3	3	16	16	0	123	2	2	6	6	11
FEB	36	36	0	0	3	3	8	8	0	41	2	2	6	6	7
MAR	36	36	0	0	3	3	4	4	0	23	2	2	6	6	4
APR	36	36	0	0	3	3	4	4	0	23	3	3	6	6	16
MAY	36	36	0	0	3	3	0	0	0	0	4	4	6	6	29
JUN	18	18	0	0	2	2	0	0	0	0	4	4	12	12	11
JUL	18	18	20	0	2	2	0	0	0	0	5	5	12	12	16
AUG	51	51	20	0	3	3	0	0	0	0	5	5	12	12	25
SEP	96	96	20	0	3	3	12	12	0	84	5	5	6	6	24
OCT	81	81	0	0	4	4	12	12	0	84	4	4	6	6	20
NOV	66	66	0	0	4	4	16	16	0	104	3	3	6	6	11

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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
DEC	15	19	15	64	18	12	2	11	0	0	3	150	65	85
JAN	14	18	15	56	15	11	2	5	0	0	2	130	110	20
FEB	13	15	15	51	14	10	2	4	0	0	2	120	45	75
MAR	11	12	15	60	15	12	2	18	0	0	3	140	30	110
APR	27	30	15	117	27	21	3	49	0	0	5	280	40	240
MAY	45	34	31	162	38	21	3	61	10	0	7	400	50	350
JUN	43	56	51	167	43	46	6	53	24	3	9	480	30	450
JUL	35	54	51	172	46	30	4	48	24	4	8	460	40	420
AUG	32	54	51	131	40	22	3	46	3	0	7	380	70	310
SEP	30	56	51	78	29	13	2	34	0	0	5	290	115	175
OCT	12	20	30	88	30	11	2	7	0	0	4	200	110	90
NOV	11	21	15	42	15	11	2	5	0	0	2	120	100	20
Total	288	388	355	1187	330	219	31	340	60	8	56	3150	805	2345

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Forecast of CVP Generation**

Based on USBR 90 Pct Forecast -B2, Dated 12/31/2008

Losses are Estimated per WAPA Contractual Provisions

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
DEC	105	76	182	292	24	85	3	278	0	0	1044	18	1025	260	80	945
JAN	52	77	91	305	21	134	1	279	0	0	960	17	945	245	105	840
FEB	51	154	182	323	22	145	1	281	0	0	1159	20	1140	260	60	1080
MAR	52	154	182	459	21	158	2	141	0	0	1170	21	1150	240	55	1095
APR	53	150	91	469	37	167	4	139	0	0	1110	20	1090	250	70	1020
MAY	107	147	91	459	53	171	4	266	97	0	1396	24	1370	190	75	1295
JUN	104	147	91	428	62	166	9	251	81	4	1345	23	1320	115	45	1275
JUL	98	147	182	383	66	154	6	236	57	6	1335	23	1310	25	75	1235
AUG	90	74	182	332	56	147	5	222	24	0	1131	20	1110	5	115	995
SEP	80	74	182	295	27	95	3	209	0	0	965	17	950	170	165	785
OCT	72	75	182	268	27	95	2	205	0	0	926	16	910	190	125	785
NOV	68	77	182	261	14	93	2	207	0	0	906	16	890	185	105	785

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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
DEC	29	0	3	6	18	2	1	4	65	25	40
JAN	46	0	2	11	40	1	1	8	110	40	70
FEB	22	0	2	3	10	1	1	5	45	20	25
MAR	16	0	2	1	2	2	1	3	30	15	15
APR	20	0	2	1	0	2	3	11	40	25	15
MAY	19	0	2	0	0	3	3	22	50	25	20
JUN	12	0	2	0	0	3	6	8	30	15	15
JUL	12	2	2	0	0	4	8	12	40	25	15
AUG	36	2	2	0	0	4	5	19	70	40	30
SEP	58	2	2	8	20	3	2	17	115	55	60
OCT	53	0	3	9	24	3	1	15	110	50	60
NOV	44	0	3	10	29	2	1	8	100	35	60
Total	367	6	28	49	143	30	35	132	805	370	425

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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	
DEC	51	51	0	0	4	4	12	12	0	62	3	3	6	6	5
JAN	66	66	0	0	3	3	16	16	0	123	2	2	6	6	11
FEB	36	36	0	0	3	3	8	8	0	41	2	2	6	6	7
MAR	36	36	0	0	3	3	4	4	0	23	2	2	6	6	4
APR	36	36	0	0	3	3	4	4	0	23	3	3	6	6	16
MAY	36	36	0	0	3	3	0	0	0	0	4	4	6	6	29
JUN	18	18	0	0	2	2	0	0	0	0	4	4	12	12	11
JUL	18	18	20	0	2	2	0	0	0	0	5	5	12	12	16
AUG	51	51	20	0	3	3	0	0	0	0	5	5	12	12	25
SEP	96	96	20	0	3	3	12	12	0	84	5	5	6	6	24
OCT	81	81	0	0	4	4	12	12	0	84	4	4	6	6	20
NOV	66	66	0	0	4	4	16	16	0	104	3	3	6	6	11