

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 2/26/2009
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
FEB	8	6	22	45	14	10	2	9	0	0	116	2	55	60	40	70
MAR	8	5	17	58	15	13	2	10	0	0	128	2	70	60	30	70
APR	22	21	10	112	25	13	2	45	6	0	256	4	40	210	140	260
MAY	62	14	15	146	32	20	2	57	10	0	358	6	85	270	200	310
JUN	30	28	26	182	41	56	7	50	16	0	436	8	80	350	310	370
JUL	37	53	51	203	51	49	6	48	5	0	503	9	125	370	320	400
AUG	31	46	44	155	43	26	3	46	0	0	394	7	120	270	190	310
SEP	30	48	44	97	31	25	3	33	0	0	311	6	105	200	140	240
OCT	21	35	45	45	19	33	4	8	0	0	210	4	70	140	90	160
NOV	19	33	30	40	15	35	5	5	0	0	182	3	105	70	0	120
DEC	6	3	5	59	15	32	4	10	0	0	134	2	155	-20	0	10
JAN	6	5	16	56	15	36	5	5	0	0	144	3	180	-40	0	-10
Total	280	297	325	1198	316	348	45	326	37	0	3172	56	1190	1940	1460	2310

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Forecast of CVP Generation
Based on USBR 50 Pct Forecast -B2, Dated 2/26/2009
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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
FEB	53	154	182	210	22	145	1	289	0	0	1056	18	1035	280	80	955
MAR	55	154	182	232	21	166	2	148	0	0	960	17	945	410	80	865
APR	57	150	91	361	35	183	2	150	92	0	1120	19	1100	340	65	1035
MAY	113	147	91	481	43	197	3	301	77	0	1455	25	1430	205	120	1310
JUN	110	147	91	583	59	199	9	299	55	0	1553	27	1525	10	120	1405
JUL	107	147	182	530	72	190	8	291	30	0	1556	27	1530	0	205	1325
AUG	101	74	182	372	59	184	5	280	0	0	1255	22	1235	5	195	1040
SEP	94	74	182	336	29	121	5	270	0	0	1111	19	1090	180	165	925
OCT	88	75	182	328	17	118	6	268	0	0	1082	19	1065	210	100	965
NOV	83	77	182	347	14	116	7	270	0	0	1097	19	1080	220	105	975
DEC	82	77	182	373	21	114	6	273	0	0	1129	20	1110	180	165	945
JAN	86	77	182	519	21	114	7	277	0	0	1283	22	1260	130	195	1065

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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 Felipe	Dos Amigos	Other Uses	Total at Tracy		
					San Luis				Exp CVP PU	Expected On Peak	Expected Off Peak
FEB	27	0	2	4	9	1	3	6	55	25	30
MAR	36	0	2	5	12	2	3	8	70	30	35
APR	19	0	2	0	0	2	4	11	40	25	15
MAY	33	0	2	0	0	3	7	37	85	45	40
JUN	42	0	2	0	0	3	11	21	80	45	35
JUL	64	1	2	3	0	4	14	38	125	70	55
AUG	64	1	2	4	1	4	10	33	120	65	50
SEP	62	1	2	6	14	3	4	16	105	55	55
OCT	42	0	3	4	11	2	1	10	70	35	35
NOV	48	0	3	10	31	2	1	9	105	40	65
DEC	64	0	3	15	62	1	1	9	155	55	100
JAN	64	0	2	15	80	1	3	13	180	65	110
Total	564	4	28	66	219	27	63	210	1190	555	625

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Forecast of CVP Generation
Based on USBR 50 Pct Forecast -B2, Dated 2/26/2009
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	
FEB	51	51	0	0	3	3	8	8	0	34	2	2	6	6	9
MAR	51	51	0	0	3	3	8	8	0	43	2	2	6	6	11
APR	36	36	0	0	3	3	0	0	0	0	3	3	6	6	15
MAY	51	51	0	0	3	3	0	0	0	0	4	4	12	12	50
JUN	66	66	0	0	2	2	0	0	0	0	5	5	18	18	29
JUL	96	96	20	0	2	2	8	8	0	0	5	5	24	24	51
AUG	96	96	20	0	3	3	8	8	0	21	5	5	18	18	44
SEP	96	96	20	0	3	3	12	12	0	63	4	4	6	6	23
OCT	66	66	0	0	4	4	8	8	0	41	3	3	6	6	13
NOV	66	66	0	0	4	4	16	16	0	98	2	2	6	6	12
DEC	96	96	0	0	4	4	24	24	23	183	2	2	6	6	12
JAN	96	96	0	0	3	3	24	24	49	195	1	1	6	6	18

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Forecast of CVP Generation
Based on USBR 50 Pct Forecast -B2, Dated 2/26/2009
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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
FEB	8	6	22	45	14	10	2	9	0	0	2	110	55	55
MAR	8	5	17	58	15	13	2	10	0	0	2	130	70	60
APR	22	21	10	112	25	13	2	45	6	0	4	250	40	210
MAY	62	14	15	146	32	20	2	57	10	0	6	350	85	265
JUN	30	28	26	182	41	56	7	50	16	0	8	430	80	350
JUL	37	53	51	203	51	49	6	48	5	0	9	490	125	365
AUG	31	46	44	155	43	26	3	46	0	0	7	390	120	270
SEP	30	48	44	97	31	25	3	33	0	0	6	310	105	205
OCT	21	35	45	45	19	33	4	8	0	0	4	210	70	140
NOV	19	33	30	40	15	35	5	5	0	0	3	180	105	75
DEC	6	3	5	59	15	32	4	10	0	0	2	130	155	-25
JAN	6	5	16	56	15	36	5	5	0	0	3	140	180	-40
Total	281	298	325	1199	315	347	44	325	37	0	56	3120	1190	1930

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Forecast of CVP Generation**

Based on USBR 50 Pct Forecast -B2, Dated 2/26/2009

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
FEB	53	154	182	210	22	145	1	289	0	0	1056	18	1035	280	80	955
MAR	55	154	182	232	21	166	2	148	0	0	960	17	945	410	80	865
APR	57	150	91	361	35	183	2	150	92	0	1120	19	1100	340	65	1035
MAY	113	147	91	481	43	197	3	301	77	0	1455	25	1430	205	120	1310
JUN	110	147	91	583	59	199	9	299	55	0	1553	27	1525	10	120	1405
JUL	107	147	182	530	72	190	8	291	30	0	1556	27	1530	0	205	1325
AUG	101	74	182	372	59	184	5	280	0	0	1255	22	1235	5	195	1040
SEP	94	74	182	336	29	121	5	270	0	0	1111	19	1090	180	165	925
OCT	88	75	182	328	17	118	6	268	0	0	1082	19	1065	210	100	965
NOV	83	77	182	347	14	116	7	270	0	0	1097	19	1080	220	105	975
DEC	82	77	182	373	21	114	6	273	0	0	1129	20	1110	180	165	945
JAN	86	77	182	519	21	114	7	277	0	0	1283	22	1260	130	195	1065

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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
FEB	27	0	2	4	9	1	3	6	55	25	30
MAR	36	0	2	5	12	2	3	8	70	30	35
APR	19	0	2	0	0	2	4	11	40	25	15
MAY	33	0	2	0	0	3	7	37	85	45	40
JUN	42	0	2	0	0	3	11	21	80	45	35
JUL	64	1	2	3	0	4	14	38	125	70	55
AUG	64	1	2	4	1	4	10	33	120	65	50
SEP	62	1	2	6	14	3	4	16	105	55	55
OCT	42	0	3	4	11	2	1	10	70	35	35
NOV	48	0	3	10	31	2	1	9	105	40	65
DEC	64	0	3	15	62	1	1	9	155	55	100
JAN	64	0	2	15	80	1	3	13	180	65	110
Total	564	4	28	66	219	27	63	210	1190	555	625

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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	
FEB	51	51	0	0	3	3	8	8	0	34	2	2	6	6	9
MAR	51	51	0	0	3	3	8	8	0	43	2	2	6	6	11
APR	36	36	0	0	3	3	0	0	0	0	3	3	6	6	15
MAY	51	51	0	0	3	3	0	0	0	0	4	4	12	12	50
JUN	66	66	0	0	2	2	0	0	0	0	5	5	18	18	29
JUL	96	96	20	0	2	2	8	8	0	0	5	5	24	24	51
AUG	96	96	20	0	3	3	8	8	0	21	5	5	18	18	44
SEP	96	96	20	0	3	3	12	12	0	63	4	4	6	6	23
OCT	66	66	0	0	4	4	8	8	0	41	3	3	6	6	13
NOV	66	66	0	0	4	4	16	16	0	98	2	2	6	6	12
DEC	96	96	0	0	4	4	24	24	23	183	2	2	6	6	12
JAN	96	96	0	0	3	3	24	24	49	195	1	1	6	6	18