

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 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	11	12	15	49	14	10	2	10	0	0	123	2	90	30	10	50
MAR	10	9	15	57	15	8	1	11	3	0	129	2	20	110	80	120
APR	25	27	15	90	22	10	1	40	0	0	230	4	45	180	110	220
MAY	45	38	38	97	28	8	1	52	5	0	312	5	40	270	210	300
JUN	31	39	38	109	31	35	5	45	11	0	344	6	30	310	270	330
JUL	25	40	38	125	36	28	4	42	13	0	351	6	35	310	280	330
AUG	24	41	38	82	28	26	4	40	7	0	290	5	30	260	200	290
SEP	17	29	26	42	16	6	1	27	10	1	175	3	20	150	120	170
OCT	10	17	30	41	16	6	1	5	0	0	126	2	50	70	50	90
NOV	9	18	15	44	15	6	1	5	0	0	113	2	40	70	30	100
DEC	8	17	15	47	15	6	1	5	0	0	114	2	95	20	0	40
JAN	8	15	15	49	15	10	2	4	0	0	118	2	55	60	10	90
Total	223	302	298	832	251	159	24	286	49	1	2425	41	550	1840	1370	2130

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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
FEB	52	154	182	203	22	135	1	285	0	0	1035	18	1015	275	105	910
MAR	53	154	182	212	21	146	2	143	98	0	1010	17	995	385	30	965
APR	52	150	91	321	32	154	2	141	0	0	943	17	925	315	70	855
MAY	101	147	91	415	37	159	1	269	90	0	1312	22	1290	190	60	1230
JUN	95	147	91	490	43	154	7	255	79	0	1361	23	1340	10	45	1295
JUL	89	147	182	440	50	140	6	241	63	0	1358	23	1335	0	55	1280
AUG	81	74	182	308	37	123	6	228	51	0	1090	19	1070	5	45	1025
SEP	74	74	182	284	15	75	1	216	42	2	965	16	950	160	35	915
OCT	68	75	182	281	15	77	1	212	0	0	912	16	895	180	75	820
NOV	63	77	182	291	14	79	1	214	0	0	921	16	905	185	60	845
DEC	59	77	182	305	21	82	1	215	0	0	942	16	925	155	100	825
JAN	56	77	182	407	21	85	2	216	0	0	1047	18	1030	115	60	970

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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
FEB	41	0	1	8	27	1	2	10	90	35	55
MAR	12	0	1	0	0	1	2	2	20	10	10
APR	23	0	1	2	3	2	3	14	45	25	20
MAY	12	0	1	0	0	2	5	17	40	20	15
JUN	12	0	1	0	0	2	8	8	30	20	15
JUL	12	0	1	0	0	2	9	10	35	20	15
AUG	13	0	1	0	0	2	6	9	30	15	15
SEP	12	0	1	0	0	2	2	3	20	10	10
OCT	29	0	1	2	5	2	1	7	50	25	25
NOV	20	0	1	3	8	1	1	3	40	15	25
DEC	43	0	2	10	34	1	1	5	95	35	60
JAN	23	0	2	5	18	1	2	4	55	20	35
Total	253	0	14	31	94	20	43	92	550	250	300

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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	
FEB	66	66	0	0	2	2	16	16	0	100	1	1	6	6	15
MAR	18	18	0	0	2	2	0	0	0	0	2	2	6	6	3
APR	36	36	0	0	1	1	4	4	0	14	2	2	6	6	19
MAY	18	18	0	0	1	1	4	4	0	0	3	3	12	12	23
JUN	18	18	0	0	1	1	0	0	0	0	3	3	12	12	11
JUL	18	18	0	0	1	1	0	0	0	0	3	3	18	18	14
AUG	18	18	0	0	1	1	0	0	0	0	3	3	12	12	12
SEP	18	18	0	0	1	1	0	0	0	0	3	3	6	6	4
OCT	51	51	0	0	2	2	4	4	0	21	3	3	6	6	9
NOV	36	36	0	0	2	2	8	8	0	42	2	2	6	6	5
DEC	66	66	0	0	2	2	16	16	0	107	2	2	6	6	7
JAN	36	36	0	0	2	2	8	8	0	58	1	1	6	6	5

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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	11	12	15	49	14	10	2	10	0	0	2	120	90	30
MAR	10	9	15	57	15	8	1	11	3	0	2	130	20	110
APR	25	27	15	90	22	10	1	40	0	0	4	230	45	185
MAY	45	38	38	97	28	8	1	52	5	0	5	310	40	270
JUN	31	39	38	109	31	35	5	45	11	0	6	340	30	310
JUL	25	40	38	125	36	28	4	42	13	0	6	350	35	315
AUG	24	41	38	82	28	26	4	40	7	0	5	290	30	260
SEP	17	29	26	42	16	6	1	27	10	1	3	170	20	150
OCT	10	17	30	41	16	6	1	5	0	0	2	130	50	80
NOV	9	18	15	44	15	6	1	5	0	0	2	110	40	70
DEC	8	17	15	47	15	6	1	5	0	0	2	110	95	15
JAN	8	15	15	49	15	10	2	4	0	0	2	120	55	65
Total	222	300	299	835	251	160	24	287	49	2	43	2410	550	1860

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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
FEB	52	154	182	203	22	135	1	285	0	0	1035	18	1015	275	105	910
MAR	53	154	182	212	21	146	2	143	98	0	1010	17	995	385	30	965
APR	52	150	91	321	32	154	2	141	0	0	943	17	925	315	70	855
MAY	101	147	91	415	37	159	1	269	90	0	1312	22	1290	190	60	1230
JUN	95	147	91	490	43	154	7	255	79	0	1361	23	1340	10	45	1295
JUL	89	147	182	440	50	140	6	241	63	0	1358	23	1335	0	55	1280
AUG	81	74	182	308	37	123	6	228	51	0	1090	19	1070	5	45	1025
SEP	74	74	182	284	15	75	1	216	42	2	965	16	950	160	35	915
OCT	68	75	182	281	15	77	1	212	0	0	912	16	895	180	75	820
NOV	63	77	182	291	14	79	1	214	0	0	921	16	905	185	60	845
DEC	59	77	182	305	21	82	1	215	0	0	942	16	925	155	100	825
JAN	56	77	182	407	21	85	2	216	0	0	1047	18	1030	115	60	970

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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	41	0	1	8	27	1	2	10	90	35	55
MAR	12	0	1	0	0	1	2	2	20	10	10
APR	23	0	1	2	3	2	3	14	45	25	20
MAY	12	0	1	0	0	2	5	17	40	20	15
JUN	12	0	1	0	0	2	8	8	30	20	15
JUL	12	0	1	0	0	2	9	10	35	20	15
AUG	13	0	1	0	0	2	6	9	30	15	15
SEP	12	0	1	0	0	2	2	3	20	10	10
OCT	29	0	1	2	5	2	1	7	50	25	25
NOV	20	0	1	3	8	1	1	3	40	15	25
DEC	43	0	2	10	34	1	1	5	95	35	60
JAN	23	0	2	5	18	1	2	4	55	20	35
Total	253	0	14	31	94	20	43	92	550	250	300

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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	66	66	0	0	2	2	16	16	0	100	1	1	6	6	15
MAR	18	18	0	0	2	2	0	0	0	0	2	2	6	6	3
APR	36	36	0	0	1	1	4	4	0	14	2	2	6	6	19
MAY	18	18	0	0	1	1	4	4	0	0	3	3	12	12	23
JUN	18	18	0	0	1	1	0	0	0	0	3	3	12	12	11
JUL	18	18	0	0	1	1	0	0	0	0	3	3	18	18	14
AUG	18	18	0	0	1	1	0	0	0	0	3	3	12	12	12
SEP	18	18	0	0	1	1	0	0	0	0	3	3	6	6	4
OCT	51	51	0	0	2	2	4	4	0	21	3	3	6	6	9
NOV	36	36	0	0	2	2	8	8	0	42	2	2	6	6	5
DEC	66	66	0	0	2	2	16	16	0	107	2	2	6	6	7
JAN	36	36	0	0	2	2	8	8	0	58	1	1	6	6	5