

United States Bureau of Reclamation - Mid Pacific Region, Central Valley Operations Office
Forecast of CVP Generation
Based on USBR 50 Pct Forecast -B2, Dated 9/24/2012
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	47	51	46	160	37	29	4	51	0	0	8	420	120	300
OCT	22	19	30	117	28	27	4	27	0	0	5	270	150	120
NOV	19	18	15	101	22	29	4	10	0	0	4	220	150	70
DEC	27	29	23	89	21	29	4	10	0	0	4	230	170	60
JAN	9	3	14	68	15	37	5	9	0	0	3	160	75	85
FEB	6	0	17	66	15	50	7	9	0	0	3	170	65	105
MAR	0	0	13	199	36	57	8	18	0	0	6	330	70	260
APR	19	11	1	206	35	63	8	59	31	1	7	430	35	395
MAY	96	0	2	240	40	70	8	96	47	4	10	590	60	530
JUN	90	54	51	263	51	70	8	70	39	1	12	690	95	595
JUL	65	53	51	326	63	71	8	67	22	0	13	720	165	555
AUG	45	49	46	208	45	64	8	65	7	0	9	530	150	380
Total	446	288	308	2045	408	596	77	493	146	6	84	4760	1305	3455

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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	129	74	91	515	53	109	6	337	0	0	1313	23	1290	275	170	1120
OCT	127	75	91	504	37	53	5	165	0	0	1057	19	1040	350	175	865
NOV	127	77	0	502	32	52	6	164	0	0	959	17	945	520	190	755
DEC	126	154	0	509	29	51	6	330	0	0	1205	21	1185	330	170	1015
JAN	127	0	91	397	21	101	4	333	0	0	1074	18	1055	405	80	975
FEB	64	0	91	704	23	52	5	340	0	0	1278	22	1255	325	85	1170
MAR	0	154	91	710	50	109	11	175	0	0	1299	23	1275	370	110	1165
APR	66	150	91	710	50	117	12	177	141	1	1514	26	1490	315	55	1435
MAY	134	147	91	710	56	129	12	358	119	5	1761	30	1730	135	85	1645
JUN	132	147	91	710	75	203	12	360	87	2	1818	31	1785	85	145	1640
JUL	129	147	182	708	88	196	12	354	54	0	1870	32	1835	0	240	1595
AUG	63	147	182	668	62	183	11	339	25	0	1681	29	1650	55	225	1425

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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	64	8	2	5	11	4	8	18	120	60	60
OCT	67	8	3	11	37	3	3	21	150	70	80
NOV	65	0	3	14	50	2	2	13	150	70	80
DEC	67	0	3	16	68	2	2	9	170	60	110
JAN	30	0	2	6	26	1	3	6	75	25	50
FEB	31	0	2	5	17	1	4	7	65	30	40
MAR	39	0	2	6	4	2	11	8	70	40	35
APR	11	0	2	0	0	2	10	10	35	20	15
MAY	12	0	2	0	0	4	14	26	60	30	25
JUN	40	0	2	0	0	5	22	25	95	50	40
JUL	66	7	2	2	0	7	29	49	165	95	70
AUG	67	7	2	4	0	7	21	42	150	90	60
Total	559	29	28	69	213	40	131	234	1305	640	665

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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	20	0	3	3	8	8	0	40	5	5	12	12	25
OCT	96	96	20	0	4	4	16	16	0	136	4	4	6	6	28
NOV	96	96	0	0	4	4	20	20	43	114	3	3	6	6	17
DEC	96	96	0	0	4	4	24	24	23	182	2	2	6	6	13
JAN	51	51	0	0	3	3	12	12	0	88	1	1	6	6	7
FEB	51	51	0	0	3	3	8	8	0	66	1	1	12	12	11
MAR	66	66	0	0	3	3	8	8	0	24	2	2	18	18	11
APR	18	18	0	0	3	3	0	0	0	0	3	3	18	18	14
MAY	18	18	0	0	3	3	0	0	0	0	5	5	24	24	35
JUN	66	66	0	0	2	2	0	0	0	0	8	8	36	36	34
JUL	96	96	20	0	2	2	4	4	0	0	10	10	42	42	66
AUG	96	96	20	0	3	3	8	8	0	0	10	10	30	30	56

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 9/24/2012
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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	47	51	46	160	37	29	4	51	0	0	425	8	120	300	210	350
OCT	22	19	30	117	28	27	4	27	0	0	274	5	150	120	70	150
NOV	19	18	15	101	22	29	4	10	0	0	218	4	150	60	0	120
DEC	27	29	23	89	21	29	4	10	0	0	232	4	170	60	0	110
JAN	9	3	14	68	15	37	5	9	0	0	160	3	75	80	20	120
FEB	6	0	17	66	15	50	7	9	0	0	170	3	65	100	40	140
MAR	0	0	13	199	36	57	8	18	0	0	331	6	70	260	130	330
APR	19	11	1	206	35	63	8	59	31	1	434	7	35	390	220	490
MAY	96	0	2	240	40	70	8	96	47	4	603	10	60	530	360	640
JUN	90	54	51	263	51	70	8	70	39	1	697	12	95	590	450	670
JUL	65	53	51	326	63	71	8	67	22	0	726	13	165	550	410	630
AUG	45	49	46	208	45	64	8	65	7	0	537	9	150	380	270	440
Total	445	287	309	2043	408	596	76	491	146	6	4807	84	1305	3420	2180	4190

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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
SEP	129	74	91	515	53	109	6	337	0	0	1313	23	1290	275	170	1120
OCT	127	75	91	504	37	53	5	165	0	0	1057	19	1040	350	175	865
NOV	127	77	0	502	32	52	6	164	0	0	959	17	945	520	190	755
DEC	126	154	0	509	29	51	6	330	0	0	1205	21	1185	330	170	1015
JAN	127	0	91	397	21	101	4	333	0	0	1074	18	1055	405	80	975
FEB	64	0	91	704	23	52	5	340	0	0	1278	22	1255	325	85	1170
MAR	0	154	91	710	50	109	11	175	0	0	1299	23	1275	370	110	1165
APR	66	150	91	710	50	117	12	177	141	1	1514	26	1490	315	55	1435
MAY	134	147	91	710	56	129	12	358	119	5	1761	30	1730	135	85	1645
JUN	132	147	91	710	75	203	12	360	87	2	1818	31	1785	85	145	1640
JUL	129	147	182	708	88	196	12	354	54	0	1870	32	1835	0	240	1595
AUG	63	147	182	668	62	183	11	339	25	0	1681	29	1650	55	225	1425

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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	64	8	2	5	11	4	8	18	120	60	60
OCT	67	8	3	11	37	3	3	21	150	70	80
NOV	65	0	3	14	50	2	2	13	150	70	80
DEC	67	0	3	16	68	2	2	9	170	60	110
JAN	30	0	2	6	26	1	3	6	75	25	50
FEB	31	0	2	5	17	1	4	7	65	30	40
MAR	39	0	2	6	4	2	11	8	70	40	35
APR	11	0	2	0	0	2	10	10	35	20	15
MAY	12	0	2	0	0	4	14	26	60	30	25
JUN	40	0	2	0	0	5	22	25	95	50	40
JUL	66	7	2	2	0	7	29	49	165	95	70
AUG	67	7	2	4	0	7	21	42	150	90	60
Total	559	29	28	69	213	40	131	234	1305	640	665

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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	20	0	3	3	8	8	0	40	5	5	12	12	25
OCT	96	96	20	0	4	4	16	16	0	136	4	4	6	6	28
NOV	96	96	0	0	4	4	20	20	43	114	3	3	6	6	17
DEC	96	96	0	0	4	4	24	24	23	182	2	2	6	6	13
JAN	51	51	0	0	3	3	12	12	0	88	1	1	6	6	7
FEB	51	51	0	0	3	3	8	8	0	66	1	1	12	12	11
MAR	66	66	0	0	3	3	8	8	0	24	2	2	18	18	11
APR	18	18	0	0	3	3	0	0	0	0	3	3	18	18	14
MAY	18	18	0	0	3	3	0	0	0	0	5	5	24	24	35
JUN	66	66	0	0	2	2	0	0	0	0	8	8	36	36	34
JUL	96	96	20	0	2	2	4	4	0	0	10	10	42	42	66
AUG	96	96	20	0	3	3	8	8	0	0	10	10	30	30	56