

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 9/26/2017
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	44	47	46	186	39	58	7	42	0	0	469	8	100	360	270	420
OCT	14	8	15	188	36	41	5	30	0	0	337	6	145	190	120	230
NOV	16	13	10	136	27	39	5	14	0	0	260	5	70	190	80	250
DEC	10	4	6	120	23	39	5	21	0	0	228	4	80	140	50	200
JAN	7	0	10	168	32	39	5	30	0	0	291	5	35	250	140	320
FEB	7	1	17	171	33	63	6	32	0	0	330	6	40	280	150	360
MAR	20	18	30	185	36	55	7	62	0	0	413	7	45	360	200	460
APR	12	1	8	150	27	69	9	80	12	0	368	6	35	330	180	410
MAY	48	61	38	172	34	76	9	95	45	1	579	10	60	510	340	610
JUN	51	57	51	194	39	63	7	78	39	0	579	10	135	430	320	500
JUL	58	45	41	246	47	64	7	52	50	0	610	10	160	440	320	510
AUG	44	48	44	238	47	62	7	45	9	0	544	10	140	390	290	460
Total	331	303	316	2154	420	668	79	581	155	1	5008	87	1045	3870	2460	4730

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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	64	148	182	710	37	124	5	383	0	0	1654	29	1625	135	140	1485
OCT	63	150	182	554	33	119	7	383	0	0	1492	26	1465	120	155	1310
NOV	63	154	182	545	37	115	7	383	0	0	1486	26	1460	230	85	1375
DEC	63	77	182	683	11	111	4	383	0	0	1514	26	1485	170	85	1400
JAN	64	0	182	417	43	165	4	382	0	0	1256	22	1235	365	65	1170
FEB	64	0	182	568	50	165	5	382	0	0	1416	24	1390	340	70	1320
MAR	65	77	91	568	50	171	10	191	0	0	1223	22	1200	375	65	1135
APR	67	75	0	710	37	183	12	190	183	0	1457	24	1435	260	55	1380
MAY	67	147	0	710	46	200	12	382	149	1	1715	29	1685	190	90	1595
JUN	65	147	91	710	56	210	10	383	123	0	1796	30	1765	125	200	1565
JUL	128	147	182	710	66	205	10	380	94	0	1923	33	1890	0	230	1660
AUG	126	147	182	710	66	194	10	377	75	0	1886	32	1855	0	200	1655

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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	56	0	2	6	10	3	10	15	100	50	50
OCT	64	0	3	9	44	2	5	20	145	60	90
NOV	30	0	3	5	20	2	5	6	70	30	40
DEC	32	0	3	6	30	1	5	5	80	30	55
JAN	19	0	2	3	2	1	6	3	35	20	15
FEB	19	0	2	3	4	1	8	5	40	20	20
MAR	20	0	2	4	3	1	8	5	45	25	20
APR	11	0	2	1	0	2	8	10	35	20	15
MAY	12	0	2	0	0	4	17	28	60	35	25
JUN	62	0	2	1	0	6	27	35	135	75	55
JUL	64	0	2	0	0	8	37	48	160	85	75
AUG	65	0	2	6	0	9	21	39	140	80	60
Total	455	0	28	45	113	38	155	218	1045	530	520

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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	81	81	0	0	3	3	12	12	0	50	4	4	18	18	21
OCT	96	96	0	0	4	4	16	16	0	151	3	3	12	12	27
NOV	51	51	0	0	4	4	8	8	0	76	2	2	12	12	8
DEC	51	51	0	0	4	4	12	12	0	99	2	2	12	12	6
JAN	36	36	0	0	3	3	8	8	0	24	1	1	12	12	4
FEB	36	36	0	0	3	3	8	8	0	24	1	1	12	12	7
MAR	36	36	0	0	3	3	8	8	0	24	1	1	12	12	7
APR	18	18	0	0	3	3	4	4	0	0	2	2	12	12	14
MAY	18	18	0	0	3	3	0	0	0	0	5	5	24	24	38
JUN	96	96	0	0	2	2	4	4	0	0	8	8	42	42	48
JUL	96	96	0	0	2	2	0	0	0	0	11	11	54	54	65
AUG	96	96	0	0	3	3	8	8	0	0	12	12	30	30	53