

United States Bureau of Reclamation - Mid Pacific Region, Central Valley Operations Office
Forecast of CVP Generation
Based on USBR 90 Pct Forecast -B2, Dated 11/21/2018
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
NOV	9	5	7	92	20	26	4	9	0	0	3	170	115	55
DEC	13	11	6	85	19	25	4	7	0	0	3	170	115	55
JAN	11	8	5	70	15	14	2	8	0	0	2	130	125	5
FEB	9	5	5	74	16	13	2	7	14	0	2	140	20	120
MAR	10	7	10	81	18	15	2	24	11	0	3	170	20	150
APR	26	21	5	159	31	26	4	81	14	0	6	360	25	335
MAY	43	19	15	182	37	21	3	83	24	2	7	420	35	385
JUN	42	38	31	224	47	43	6	61	36	5	9	520	20	500
JUL	32	36	31	242	53	23	3	54	33	6	9	500	20	480
AUG	32	36	31	176	42	23	3	42	16	3	7	400	35	365
SEP	22	21	20	116	30	12	2	32	0	0	5	250	65	185
OCT	14	11	18	75	21	22	3	25	0	0	3	190	95	95
Total	262	217	184	1578	348	263	37	433	148	17	60	3420	690	2730

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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
NOV	0	150	91	479	19	100	5	0	0	0	845	15	830	550	125	705
DEC	60	154	182	359	9	95	3	184	0	0	1045	18	1025	380	105	920
JAN	60	154	182	485	14	136	2	368	0	0	1401	24	1375	180	105	1270
FEB	60	154	182	372	8	141	0	368	152	0	1437	24	1415	300	40	1375
MAR	61	154	182	256	16	151	2	184	143	0	1149	19	1130	475	30	1100
APR	61	150	182	393	43	163	3	181	135	0	1312	22	1290	465	40	1250
MAY	62	147	182	391	50	173	4	175	123	3	1310	22	1290	300	50	1240
JUN	61	147	182	503	69	172	8	336	106	8	1593	27	1565	150	35	1530
JUL	61	147	182	472	75	165	4	321	82	8	1518	26	1495	135	35	1460
AUG	60	147	182	427	59	159	5	308	55	4	1407	24	1380	165	60	1320
SEP	58	148	182	392	42	103	1	299	0	0	1226	21	1205	165	95	1110
OCT	0	150	182	373	19	101	5	293	0	0	1122	19	1105	155	145	960

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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
NOV	48	0	3	10	42	1	3	10	115	40	75
DEC	44	0	3	10	48	1	3	7	115	35	80
JAN	46	0	2	11	53	1	4	9	125	40	85
FEB	8	0	2	0	0	1	5	2	20	10	10
MAR	10	0	2	0	0	1	4	2	20	10	10
APR	11	0	2	0	0	1	4	7	25	15	10
MAY	12	0	2	0	0	2	4	15	35	20	15
JUN	6	0	2	0	0	2	4	5	20	10	10
JUL	6	0	2	0	0	2	4	6	20	10	10
AUG	19	0	2	0	0	3	4	10	35	20	15
SEP	43	0	2	3	3	2	4	10	65	35	35
OCT	50	2	3	6	15	4	3	13	95	50	50
Total	304	2	28	40	161	21	44	97	690	295	405

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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	
NOV	81	81	0	0	4	4	16	16	0	134	2	2	6	6	14
DEC	66	66	0	0	4	4	16	16	0	154	2	2	6	6	9
JAN	66	66	0	0	3	3	16	16	0	178	1	1	6	6	13
FEB	18	18	0	0	3	3	0	0	0	0	1	1	12	12	3
MAR	18	18	0	0	3	3	0	0	0	0	1	1	6	6	3
APR	18	18	0	0	3	3	0	0	0	0	2	2	6	6	10
MAY	18	18	0	0	3	3	0	0	0	0	2	2	6	6	21
JUN	18	18	0	0	2	2	0	0	0	0	2	2	6	6	6
JUL	18	18	0	0	2	2	0	0	0	0	3	3	6	6	8
AUG	36	36	0	0	3	3	0	0	0	0	3	3	6	6	14
SEP	66	66	0	0	3	3	4	4	0	21	3	3	6	6	14
OCT	81	81	20	0	4	4	12	12	0	63	5	5	6	6	18