

**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 7/26/2022**  
**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
JUL	15	19	13	86	21	79	10	41	7	0	291	5	70	220	160	250
AUG	19	18	13	84	21	64	9	32	0	0	260	5	75	180	130	210
SEP	17	17	13	70	18	26	4	21	0	0	186	3	45	140	100	160
OCT	5	2	13	58	15	19	3	21	3	0	139	2	25	110	80	130
NOV	4	3	0	65	15	18	3	5	0	0	113	2	75	40	0	60
DEC	5	3	5	65	15	19	3	5	0	0	120	2	115	0	0	30
JAN	4	0	11	63	15	20	3	5	0	0	121	2	120	0	0	30
FEB	4	1	17	56	14	47	6	9	2	0	156	3	10	140	80	180
MAR	5	0	13	77	16	63	6	15	6	0	201	4	15	180	100	230
APR	15	15	5	97	18	50	6	41	12	0	259	4	25	230	130	290
MAY	65	12	13	135	25	111	11	48	34	2	456	8	45	400	270	480
JUN	45	23	21	163	31	93	10	57	45	3	491	8	45	440	340	500
Total	203	113	137	1019	224	609	74	300	109	5	2793	48	665	2080	1390	2550

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**Forecast of CVP Generation**  
**Based on USBR 50 Pct Forecast -B2, Dated 7/26/2022**  
**Losses are Estimated per WAPA Contractual Provisions**  
**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
JUL	44	148	182	544	19	184	13	219	86	0	1439	25	1415	50	115	1300
AUG	41	147	182	423	19	165	6	209	0	0	1192	21	1170	55	110	1060
SEP	37	147	182	412	17	51	3	201	0	0	1050	18	1030	190	75	955
OCT	35	75	91	411	14	149	4	98	61	0	939	16	925	240	50	875
NOV	70	0	91	316	14	150	4	98	0	0	744	13	730	440	95	635
DEC	71	0	91	329	14	154	4	101	0	0	764	14	750	375	140	610
JAN	76	0	91	353	21	107	4	207	0	0	858	15	845	440	100	745
FEB	83	77	91	380	22	112	5	215	139	0	1123	19	1105	280	25	1080
MAR	91	154	91	411	23	175	4	225	143	0	1317	22	1295	295	30	1265
APR	100	150	0	568	26	189	4	234	141	0	1412	24	1390	195	40	1350
MAY	102	147	0	710	23	205	14	249	133	3	1587	27	1560	165	60	1500
JUN	98	147	0	710	43	205	14	260	121	5	1603	27	1575	90	80	1495

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**Forecast of CVP Generation**  
**Based on USBR 50 Pct Forecast -B2, Dated 7/26/2022**  
**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
JUL	39	0	1	1	0	2	7	22	70	40	35
AUG	39	0	1	3	4	2	4	21	75	40	35
SEP	29	0	1	1	0	2	3	6	45	25	20
OCT	19	0	1	0	0	1	1	3	25	15	10
NOV	40	0	0	6	20	0	1	6	75	30	45
DEC	54	0	0	11	44	0	0	7	115	45	70
JAN	47	0	0	11	53	0	0	9	120	35	85
FEB	10	0	0	0	0	0	1	1	10	5	5
MAR	11	0	1	0	0	1	1	2	15	10	5
APR	13	0	1	0	0	2	4	8	25	15	10
MAY	13	0	1	0	0	2	8	19	45	25	20
JUN	18	0	1	0	0	2	13	12	45	25	20
Total	330	0	9	34	120	15	43	116	665	310	360

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**Forecast of CVP Generation**  
**Based on USBR 50 Pct Forecast -B2, Dated 7/26/2022**  
**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	
JUL	66	66	0	0	2	2	4	4	0	0	3	3	12	12	29
AUG	66	66	0	0	2	2	4	4	0	20	3	3	6	6	28
SEP	51	51	0	0	1	1	4	4	0	21	3	3	6	6	9
OCT	36	36	0	0	1	1	0	0	0	0	2	2	6	6	5
NOV	66	66	0	0	1	1	12	12	0	62	0	0	6	6	9
DEC	81	81	0	0	1	1	16	16	28	112	0	0	6	6	9
JAN	66	66	0	0	0	0	16	16	0	158	0	0	6	6	12
FEB	18	18	0	0	0	0	0	0	0	0	0	0	6	6	2
MAR	18	18	0	0	1	1	0	0	0	0	1	1	6	6	2
APR	18	18	0	0	1	1	0	0	0	0	2	2	6	6	11
MAY	18	18	0	0	1	1	0	0	0	0	3	3	12	12	26
JUN	36	36	0	0	1	1	0	0	0	0	3	3	24	24	17

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**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
JUL	15	19	13	86	21	79	10	41	7	0	5	280	70	210
AUG	19	18	13	84	21	64	9	32	0	0	5	260	75	185
SEP	17	17	13	70	18	26	4	21	0	0	3	180	45	135
OCT	5	2	13	58	15	19	3	21	3	0	2	140	25	115
NOV	4	3	0	65	15	18	3	5	0	0	2	110	75	35
DEC	5	3	5	65	15	19	3	5	0	0	2	120	115	5
JAN	4	0	11	63	15	20	3	5	0	0	2	120	120	0
FEB	4	1	17	56	14	47	6	9	2	0	3	150	10	140
MAR	5	0	13	77	16	63	6	15	6	0	4	200	15	185
APR	15	15	5	97	18	50	6	41	12	0	4	260	25	235
MAY	65	12	13	135	25	111	11	48	34	2	8	450	45	405
JUN	45	23	21	163	31	93	10	57	45	3	8	480	45	435
Total	204	113	136	1019	225	610	72	300	108	6	49	2750	665	2085

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**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
JUL	44	148	182	544	19	184	13	219	86	0	1439	25	1415	50	115	1300
AUG	41	147	182	423	19	165	6	209	0	0	1192	21	1170	55	110	1060
SEP	37	147	182	412	17	51	3	201	0	0	1050	18	1030	190	75	955
OCT	35	75	91	411	14	149	4	98	61	0	939	16	925	240	50	875
NOV	70	0	91	316	14	150	4	98	0	0	744	13	730	440	95	635
DEC	71	0	91	329	14	154	4	101	0	0	764	14	750	375	140	610
JAN	76	0	91	353	21	107	4	207	0	0	858	15	845	440	100	745
FEB	83	77	91	380	22	112	5	215	139	0	1123	19	1105	280	25	1080
MAR	91	154	91	411	23	175	4	225	143	0	1317	22	1295	295	30	1265
APR	100	150	0	568	26	189	4	234	141	0	1412	24	1390	195	40	1350
MAY	102	147	0	710	23	205	14	249	133	3	1587	27	1560	165	60	1500
JUN	98	147	0	710	43	205	14	260	121	5	1603	27	1575	90	80	1495

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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
JUL	39	0	1	1	0	2	7	22	70	40	35
AUG	39	0	1	3	4	2	4	21	75	40	35
SEP	29	0	1	1	0	2	3	6	45	25	20
OCT	19	0	1	0	0	1	1	3	25	15	10
NOV	40	0	0	6	20	0	1	6	75	30	45
DEC	54	0	0	11	44	0	0	7	115	45	70
JAN	47	0	0	11	53	0	0	9	120	35	85
FEB	10	0	0	0	0	0	1	1	10	5	5
MAR	11	0	1	0	0	1	1	2	15	10	5
APR	13	0	1	0	0	2	4	8	25	15	10
MAY	13	0	1	0	0	2	8	19	45	25	20
JUN	18	0	1	0	0	2	13	12	45	25	20
Total	330	0	9	34	120	15	43	116	665	310	360

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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	
JUL	66	66	0	0	2	2	4	4	0	0	3	3	12	12	29
AUG	66	66	0	0	2	2	4	4	0	20	3	3	6	6	28
SEP	51	51	0	0	1	1	4	4	0	21	3	3	6	6	9
OCT	36	36	0	0	1	1	0	0	0	0	2	2	6	6	5
NOV	66	66	0	0	1	1	12	12	0	62	0	0	6	6	9
DEC	81	81	0	0	1	1	16	16	28	112	0	0	6	6	9
JAN	66	66	0	0	0	0	16	16	0	158	0	0	6	6	12
FEB	18	18	0	0	0	0	0	0	0	0	0	0	6	6	2
MAR	18	18	0	0	1	1	0	0	0	0	1	1	6	6	2
APR	18	18	0	0	1	1	0	0	0	0	2	2	6	6	11
MAY	18	18	0	0	1	1	0	0	0	0	3	3	12	12	26
JUN	36	36	0	0	1	1	0	0	0	0	3	3	24	24	17