

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 5/25/2022
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
MAY	22	11	5	77	18	25	3	49	5	0	215	4	40	170	130	200
JUN	14	16	13	84	20	37	4	40	12	0	240	4	30	210	180	220
JUL	14	17	13	85	21	84	10	37	10	0	291	5	60	230	200	240
AUG	19	18	13	84	21	59	8	32	1	0	255	5	60	190	140	220
SEP	17	17	13	70	18	18	3	21	6	0	183	3	30	150	110	170
OCT	5	2	13	57	15	19	3	21	3	0	138	2	25	110	80	130
NOV	4	3	0	64	15	18	3	5	0	0	112	2	70	40	0	70
DEC	5	3	5	65	15	19	3	5	0	0	120	2	95	20	0	50
JAN	4	1	12	62	15	19	3	5	0	0	121	2	115	0	0	30
FEB	4	1	17	55	14	64	9	9	0	0	173	3	45	130	60	170
MAR	5	0	13	70	15	55	6	15	4	0	183	3	15	170	90	210
APR	28	15	5	78	15	51	6	41	0	0	239	4	25	210	120	270
Total	141	104	122	851	202	468	61	280	41	0	2270	39	610	1630	1110	1980

United States Bureau of Reclamation - Mid Pacific Region, Central Valley Operations Office
Forecast of CVP Generation
Based on USBR 50 Pct Forecast -B2, Dated 5/25/2022
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
MAY	46	74	182	556	16	195	4	241	101	0	1417	24	1395	120	65	1330
JUN	45	147	182	551	19	197	6	230	92	0	1470	25	1445	55	45	1400
JUL	43	147	182	538	19	184	14	220	77	0	1424	24	1400	50	95	1305
AUG	40	147	182	418	29	110	5	210	61	0	1203	21	1180	105	90	1090
SEP	36	147	182	407	26	52	2	202	47	0	1102	19	1085	220	50	1035
OCT	34	75	91	407	21	52	4	99	39	0	821	14	805	340	50	755
NOV	68	0	91	313	14	105	4	99	0	0	693	12	680	425	95	585
DEC	70	0	91	434	14	107	4	101	0	0	821	15	805	350	95	710
JAN	74	0	91	350	21	111	4	208	0	0	859	15	845	440	100	745
FEB	81	77	91	378	22	113	6	216	0	0	984	17	965	280	60	905
MAR	90	154	91	409	21	175	4	226	136	0	1306	22	1285	295	30	1255
APR	97	150	0	568	22	191	4	235	0	0	1267	22	1245	195	40	1205

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Forecast of CVP Generation
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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
MAY	13	0	1	1	0	1	6	19	40	25	20
JUN	13	0	1	0	0	2	8	8	30	20	15
JUL	33	0	1	0	0	2	7	19	60	35	30
AUG	33	0	1	1	0	2	4	16	60	35	25
SEP	18	0	1	0	0	2	3	4	30	15	10
OCT	18	0	1	0	0	1	1	3	25	15	10
NOV	39	0	0	6	18	0	1	6	70	30	40
DEC	47	0	0	9	33	0	0	5	95	35	60
JAN	48	0	0	12	48	0	0	9	115	35	80
FEB	22	0	0	3	14	0	1	5	45	20	25
MAR	12	0	1	0	0	0	2	2	15	10	5
APR	13	0	1	2	1	0	3	8	25	15	10
Total	308	0	9	34	113	13	36	104	610	290	330

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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	
MAY	18	18	0	0	1	1	4	4	0	0	2	2	12	12	25
JUN	18	18	0	0	1	1	0	0	0	0	3	3	12	12	11
JUL	51	51	0	0	2	2	0	0	0	0	3	3	12	12	25
AUG	51	51	0	0	2	2	4	4	0	0	3	3	6	6	22
SEP	36	36	0	0	1	1	0	0	0	0	3	3	6	6	6
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	1	1	6	6	8
DEC	66	66	0	0	1	1	16	16	0	116	0	0	6	6	7
JAN	66	66	0	0	0	0	16	16	0	160	0	0	6	6	12
FEB	36	36	0	0	0	0	8	8	0	67	0	0	6	6	7
MAR	18	18	0	0	1	1	0	0	0	0	0	0	6	6	3
APR	18	18	0	0	1	1	4	4	0	22	0	0	6	6	11

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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
MAY	22	11	5	77	18	25	3	49	5	0	4	210	40	170
JUN	14	16	13	84	20	37	4	40	12	0	4	240	30	210
JUL	14	17	13	85	21	84	10	37	10	0	5	290	60	230
AUG	19	18	13	84	21	59	8	32	1	0	4	250	60	190
SEP	17	17	13	70	18	18	3	21	6	0	3	180	30	150
OCT	5	2	13	57	15	19	3	21	3	0	2	130	25	105
NOV	4	3	0	64	15	18	3	5	0	0	2	110	70	40
DEC	5	3	5	65	15	19	3	5	0	0	2	120	95	25
JAN	4	1	12	62	15	19	3	5	0	0	2	120	115	5
FEB	4	1	17	55	14	64	9	9	0	0	3	170	45	125
MAR	5	0	13	70	15	55	6	15	4	0	3	180	15	165
APR	28	15	5	78	15	51	6	41	0	0	4	230	25	205
Total	140	104	121	852	202	468	59	280	41	1	40	2230	610	1620

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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
MAY	46	74	182	556	16	195	4	241	101	0	1417	24	1395	120	65	1330
JUN	45	147	182	551	19	197	6	230	92	0	1470	25	1445	55	45	1400
JUL	43	147	182	538	19	184	14	220	77	0	1424	24	1400	50	95	1305
AUG	40	147	182	418	29	110	5	210	61	0	1203	21	1180	105	90	1090
SEP	36	147	182	407	26	52	2	202	47	0	1102	19	1085	220	50	1035
OCT	34	75	91	407	21	52	4	99	39	0	821	14	805	340	50	755
NOV	68	0	91	313	14	105	4	99	0	0	693	12	680	425	95	585
DEC	70	0	91	434	14	107	4	101	0	0	821	15	805	350	95	710
JAN	74	0	91	350	21	111	4	208	0	0	859	15	845	440	100	745
FEB	81	77	91	378	22	113	6	216	0	0	984	17	965	280	60	905
MAR	90	154	91	409	21	175	4	226	136	0	1306	22	1285	295	30	1255
APR	97	150	0	568	22	191	4	235	0	0	1267	22	1245	195	40	1205

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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
MAY	13	0	1	1	0	1	6	19	40	25	20
JUN	13	0	1	0	0	2	8	8	30	20	15
JUL	33	0	1	0	0	2	7	19	60	35	30
AUG	33	0	1	1	0	2	4	16	60	35	25
SEP	18	0	1	0	0	2	3	4	30	15	10
OCT	18	0	1	0	0	1	1	3	25	15	10
NOV	39	0	0	6	18	0	1	6	70	30	40
DEC	47	0	0	9	33	0	0	5	95	35	60
JAN	48	0	0	12	48	0	0	9	115	35	80
FEB	22	0	0	3	14	0	1	5	45	20	25
MAR	12	0	1	0	0	0	2	2	15	10	5
APR	13	0	1	2	1	0	3	8	25	15	10
Total	308	0	9	34	113	13	36	104	610	290	330

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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	
MAY	18	18	0	0	1	1	4	4	0	0	2	2	12	12	25
JUN	18	18	0	0	1	1	0	0	0	0	3	3	12	12	11
JUL	51	51	0	0	2	2	0	0	0	0	3	3	12	12	25
AUG	51	51	0	0	2	2	4	4	0	0	3	3	6	6	22
SEP	36	36	0	0	1	1	0	0	0	0	3	3	6	6	6
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	1	1	6	6	8
DEC	66	66	0	0	1	1	16	16	0	116	0	0	6	6	7
JAN	66	66	0	0	0	0	16	16	0	160	0	0	6	6	12
FEB	36	36	0	0	0	0	8	8	0	67	0	0	6	6	7
MAR	18	18	0	0	1	1	0	0	0	0	0	0	6	6	3
APR	18	18	0	0	1	1	4	4	0	22	0	0	6	6	11