

United States Bureau of Reclamation - California Great Basin 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 8/28/2023
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
AUG	29	20	15	247	45	70	8	68	36	0	538	9	130	400	290	460
SEP	28	20	15	160	31	49	6	48	0	0	357	6	100	250	180	290
OCT	7	0	11	123	24	41	5	35	14	0	260	4	65	190	140	220
NOV	7	3	0	121	22	38	5	8	0	0	204	4	170	30	0	80
DEC	6	0	2	161	30	31	4	7	0	0	241	4	180	60	0	110
JAN	6	0	11	142	28	32	4	9	0	0	232	4	45	180	90	240
FEB	6	0	17	195	37	64	6	8	0	0	333	6	60	270	140	350
MAR	7	0	8	229	40	33	4	48	0	0	369	7	45	320	170	400
APR	17	10	0	130	22	81	10	79	26	0	375	6	40	330	180	420
MAY	87	2	0	136	23	113	10	90	49	3	513	9	65	440	290	530
JUN	47	4	0	183	31	89	10	71	26	0	461	8	125	330	240	380
JUL	36	20	15	301	53	70	8	50	41	0	594	10	135	450	330	520
Total	283	79	94	2128	386	711	80	521	192	3	4477	77	1160	3250	2050	4000

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Forecast of CVP Generation
Based on USBR 50 Pct Forecast -B2, Dated 8/28/2023
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
AUG	60	147	91	710	62	128	12	383	162	0	1756	29	1725	120	195	1530
SEP	58	147	91	704	43	122	9	190	0	0	1365	24	1340	395	150	1190
OCT	58	150	91	692	33	118	7	189	157	0	1495	25	1470	335	125	1345
NOV	115	0	91	689	32	114	7	189	0	0	1237	22	1215	450	200	1015
DEC	116	0	91	689	40	112	6	189	0	0	1243	22	1220	430	205	1015
JAN	117	0	91	698	25	169	3	190	0	0	1293	23	1270	395	65	1205
FEB	120	77	182	710	37	171	5	191	0	0	1493	26	1465	215	90	1375
MAR	122	154	182	710	37	180	6	192	0	0	1583	28	1555	145	70	1485
APR	124	150	182	710	21	195	14	192	164	0	1751	30	1720	60	75	1645
MAY	125	147	182	710	21	206	14	383	132	4	1924	33	1890	10	105	1785
JUN	124	147	182	710	43	206	14	383	106	0	1915	33	1885	0	190	1695
JUL	123	74	91	710	75	196	12	383	85	0	1748	30	1720	105	185	1535

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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
AUG	62	0	2	3	0	2	25	36	130	75	55
SEP	59	0	2	6	8	2	10	16	100	50	50
OCT	27	13	2	0	0	2	12	9	65	45	25
NOV	59	13	3	12	56	2	12	14	170	70	100
DEC	58	13	3	13	69	1	12	10	180	65	115
JAN	21	0	2	4	4	1	8	3	45	20	20
FEB	32	0	2	5	4	1	10	7	60	35	30
MAR	26	0	2	3	5	1	5	5	45	25	25
APR	14	0	2	0	0	2	10	11	40	25	15
MAY	15	0	2	0	0	3	15	29	65	35	30
JUN	60	0	2	3	0	4	24	33	125	70	55
JUL	56	0	2	0	0	5	30	40	135	75	60
Total	488	40	27	48	145	27	174	213	1160	590	580

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Forecast of CVP Generation
Based on USBR 50 Pct Forecast -B2, Dated 8/28/2023
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	
AUG	96	96	0	0	3	3	8	8	0	0	3	3	36	36	49
SEP	96	96	0	0	3	3	8	8	0	25	3	3	18	18	22
OCT	51	51	40	0	3	3	0	0	0	0	3	3	18	18	12
NOV	96	96	40	0	4	4	20	20	0	177	2	2	18	18	20
DEC	81	81	40	0	4	4	20	20	25	199	2	2	18	18	14
JAN	36	36	0	0	3	3	8	8	0	24	1	1	12	12	4
FEB	51	51	0	0	3	3	8	8	0	24	1	1	18	18	10
MAR	36	36	0	0	3	3	8	8	0	24	2	2	12	12	7
APR	36	36	0	0	3	3	0	0	0	0	3	3	18	18	16
MAY	36	36	0	0	3	3	0	0	0	0	4	4	24	24	38
JUN	96	96	0	0	2	2	4	4	0	0	6	6	36	36	45
JUL	81	81	0	0	2	2	0	0	0	0	7	7	42	42	54

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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
AUG	29	20	15	247	45	70	8	68	36	0	9	530	130	400
SEP	28	20	15	160	31	49	6	48	0	0	6	350	100	250
OCT	7	0	11	123	24	41	5	35	14	0	4	260	65	195
NOV	7	3	0	121	22	38	5	8	0	0	4	200	170	30
DEC	6	0	2	161	30	31	4	7	0	0	4	240	180	60
JAN	6	0	11	142	28	32	4	9	0	0	4	230	45	185
FEB	6	0	17	195	37	64	6	8	0	0	6	330	60	270
MAR	7	0	8	229	40	33	4	48	0	0	7	360	45	315
APR	17	10	0	130	22	81	10	79	26	0	6	370	40	330
MAY	87	2	0	136	23	113	10	90	49	3	9	510	65	445
JUN	47	4	0	183	31	89	10	71	26	0	8	450	125	325
JUL	36	20	15	301	53	70	8	50	41	0	10	590	135	455
Total	283	80	95	2129	385	713	82	521	192	3	78	4420	1160	3260

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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
AUG	60	147	91	710	62	128	12	383	162	0	1756	29	1725	120	195	1530
SEP	58	147	91	704	43	122	9	190	0	0	1365	24	1340	395	150	1190
OCT	58	150	91	692	33	118	7	189	157	0	1495	25	1470	335	125	1345
NOV	115	0	91	689	32	114	7	189	0	0	1237	22	1215	450	200	1015
DEC	116	0	91	689	40	112	6	189	0	0	1243	22	1220	430	205	1015
JAN	117	0	91	698	25	169	3	190	0	0	1293	23	1270	395	65	1205
FEB	120	77	182	710	37	171	5	191	0	0	1493	26	1465	215	90	1375
MAR	122	154	182	710	37	180	6	192	0	0	1583	28	1555	145	70	1485
APR	124	150	182	710	21	195	14	192	164	0	1751	30	1720	60	75	1645
MAY	125	147	182	710	21	206	14	383	132	4	1924	33	1890	10	105	1785
JUN	124	147	182	710	43	206	14	383	106	0	1915	33	1885	0	190	1695
JUL	123	74	91	710	75	196	12	383	85	0	1748	30	1720	105	185	1535

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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
AUG	62	0	2	3	0	2	25	36	130	75	55
SEP	59	0	2	6	8	2	10	16	100	50	50
OCT	27	13	2	0	0	2	12	9	65	45	25
NOV	59	13	3	12	56	2	12	14	170	70	100
DEC	58	13	3	13	69	1	12	10	180	65	115
JAN	21	0	2	4	4	1	8	3	45	20	20
FEB	32	0	2	5	4	1	10	7	60	35	30
MAR	26	0	2	3	5	1	5	5	45	25	25
APR	14	0	2	0	0	2	10	11	40	25	15
MAY	15	0	2	0	0	3	15	29	65	35	30
JUN	60	0	2	3	0	4	24	33	125	70	55
JUL	56	0	2	0	0	5	30	40	135	75	60
Total	488	40	27	48	145	27	174	213	1160	590	580

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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	
AUG	96	96	0	0	3	3	8	8	0	0	3	3	36	36	49
SEP	96	96	0	0	3	3	8	8	0	25	3	3	18	18	22
OCT	51	51	40	0	3	3	0	0	0	0	3	3	18	18	12
NOV	96	96	40	0	4	4	20	20	0	177	2	2	18	18	20
DEC	81	81	40	0	4	4	20	20	25	199	2	2	18	18	14
JAN	36	36	0	0	3	3	8	8	0	24	1	1	12	12	4
FEB	51	51	0	0	3	3	8	8	0	24	1	1	18	18	10
MAR	36	36	0	0	3	3	8	8	0	24	2	2	12	12	7
APR	36	36	0	0	3	3	0	0	0	0	3	3	18	18	16
MAY	36	36	0	0	3	3	0	0	0	0	4	4	24	24	38
JUN	96	96	0	0	2	2	4	4	0	0	6	6	36	36	45
JUL	81	81	0	0	2	2	0	0	0	0	7	7	42	42	54