

**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 10/25/2022**  
**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
OCT	5	0	9	72	18	20	3	24	7	0	158	3	20	140	100	150
NOV	5	3	0	63	15	18	3	6	0	0	113	2	75	40	0	60
DEC	4	0	2	66	15	19	3	6	0	0	115	2	130	-20	0	10
JAN	4	0	11	62	15	15	2	6	0	0	115	2	125	-10	0	20
FEB	4	1	17	55	14	35	5	9	0	0	140	3	115	20	0	50
MAR	5	0	13	76	16	41	5	18	0	0	174	3	170	0	0	40
APR	16	15	5	95	18	72	9	50	25	0	305	5	30	270	150	340
MAY	69	0	2	143	25	116	10	60	50	3	478	8	55	420	270	500
JUN	36	3	0	177	31	78	9	51	54	2	441	7	75	360	270	410
JUL	21	4	0	241	42	87	10	48	38	0	491	8	140	340	250	400
AUG	16	5	0	233	43	48	6	40	0	0	391	7	145	240	160	290
SEP	14	5	0	150	29	40	5	28	0	0	271	5	125	140	90	170
Total	199	36	59	1433	281	589	70	346	174	5	3192	55	1205	1940	1290	2440

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**Forecast of CVP Generation**  
**Based on USBR 50 Pct Forecast -B2, Dated 10/25/2022**  
**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
OCT	38	75	91	504	17	97	4	97	74	0	997	17	980	140	50	930
NOV	76	154	91	303	14	95	4	95	0	0	833	15	820	335	95	725
DEC	78	154	91	316	14	97	4	97	0	0	853	15	835	325	115	720
JAN	82	154	91	457	21	103	2	200	0	0	1111	19	1090	220	105	985
FEB	44	154	91	496	22	166	4	208	0	0	1185	21	1165	250	110	1055
MAR	97	154	91	403	23	120	4	217	0	0	1108	19	1090	390	180	910
APR	104	150	91	426	26	130	12	225	169	0	1333	22	1310	305	50	1260
MAY	107	147	91	568	34	206	14	235	146	4	1552	26	1525	200	75	1450
JUN	105	147	91	710	43	207	13	244	124	3	1687	29	1660	90	120	1540
JUL	102	147	91	708	59	196	14	240	105	0	1662	28	1635	80	205	1430
AUG	50	147	182	675	59	184	8	228	0	0	1534	27	1505	5	175	1330
SEP	48	147	182	650	40	179	7	220	0	0	1474	26	1450	45	150	1300

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**Forecast of CVP Generation**  
**Based on USBR 50 Pct Forecast -B2, Dated 10/25/2022**  
**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 Luis	San Felipe	Dos Amigos	Other Uses	Total at Tracy		
									Exp CVP PU	Expected On Peak	Expected Off Peak
OCT	14	0	1	0	0	1	1	3	20	10	10
NOV	40	0	0	6	21	0	1	6	75	30	45
DEC	58	0	0	12	50	0	0	7	130	45	85
JAN	47	0	2	11	55	0	0	9	125	40	90
FEB	43	0	2	8	47	0	1	13	115	40	75
MAR	61	0	2	12	69	1	4	20	170	65	105
APR	11	0	2	0	0	2	8	9	30	20	15
MAY	12	0	2	0	0	2	13	24	55	30	25
JUN	29	0	2	0	0	3	22	20	75	45	30
JUL	61	0	2	1	0	4	28	42	140	75	65
AUG	62	0	2	9	27	2	4	41	145	70	75
SEP	59	0	2	9	33	1	3	19	125	50	75
Total	497	0	20	69	303	18	85	212	1205	520	695

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**Forecast of CVP Generation**  
**Based on USBR 50 Pct Forecast -B2, Dated 10/25/2022**  
**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	
OCT	36	36	0	0	1	1	0	0	0	0	2	2	6	6	4
NOV	66	66	0	0	1	1	12	12	0	77	0	0	6	6	9
DEC	81	81	0	0	1	1	20	20	0	154	0	0	6	6	10
JAN	66	66	0	0	3	3	16	16	0	179	0	0	6	6	13
FEB	66	66	0	0	3	3	16	16	0	168	0	0	6	6	19
MAR	96	96	0	0	3	3	20	20	25	199	2	2	6	6	26
APR	18	18	0	0	3	3	0	0	0	0	2	2	12	12	13
MAY	18	18	0	0	3	3	0	0	0	0	3	3	18	18	32
JUN	51	51	0	0	2	2	0	0	0	0	4	4	36	36	28
JUL	96	96	0	0	2	2	4	4	0	0	6	6	42	42	56
AUG	96	96	0	0	3	3	12	12	0	100	2	2	6	6	55
SEP	96	96	0	0	3	3	16	16	0	114	2	2	6	6	27

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**Forecast of CVP Generation**  
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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
OCT	5	0	9	72	18	20	3	24	7	0	3	160	20	140
NOV	5	3	0	63	15	18	3	6	0	0	2	110	75	35
DEC	4	0	2	66	15	19	3	6	0	0	2	110	130	-20
JAN	4	0	11	62	15	15	2	6	0	0	2	110	125	-15
FEB	4	1	17	55	14	35	5	9	0	0	3	140	115	25
MAR	5	0	13	76	16	41	5	18	0	0	3	170	170	0
APR	16	15	5	95	18	72	9	50	25	0	5	300	30	270
MAY	69	0	2	143	25	116	10	60	50	3	8	470	55	415
JUN	36	3	0	177	31	78	9	51	54	2	7	430	75	355
JUL	21	4	0	241	42	87	10	48	38	0	8	480	140	340
AUG	16	5	0	233	43	48	6	40	0	0	7	380	145	235
SEP	14	5	0	150	29	40	5	28	0	0	5	270	125	145
Total	199	37	59	1434	282	589	70	345	173	6	55	3130	1205	1925

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**Forecast of CVP Generation**  
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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
OCT	38	75	91	504	17	97	4	97	74	0	997	17	980	140	50	930
NOV	76	154	91	303	14	95	4	95	0	0	833	15	820	335	95	725
DEC	78	154	91	316	14	97	4	97	0	0	853	15	835	325	115	720
JAN	82	154	91	457	21	103	2	200	0	0	1111	19	1090	220	105	985
FEB	44	154	91	496	22	166	4	208	0	0	1185	21	1165	250	110	1055
MAR	97	154	91	403	23	120	4	217	0	0	1108	19	1090	390	180	910
APR	104	150	91	426	26	130	12	225	169	0	1333	22	1310	305	50	1260
MAY	107	147	91	568	34	206	14	235	146	4	1552	26	1525	200	75	1450
JUN	105	147	91	710	43	207	13	244	124	3	1687	29	1660	90	120	1540
JUL	102	147	91	708	59	196	14	240	105	0	1662	28	1635	80	205	1430
AUG	50	147	182	675	59	184	8	228	0	0	1534	27	1505	5	175	1330
SEP	48	147	182	650	40	179	7	220	0	0	1474	26	1450	45	150	1300

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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
OCT	14	0	1	0	0	1	1	3	20	10	10
NOV	40	0	0	6	21	0	1	6	75	30	45
DEC	58	0	0	12	50	0	0	7	130	45	85
JAN	47	0	2	11	55	0	0	9	125	40	90
FEB	43	0	2	8	47	0	1	13	115	40	75
MAR	61	0	2	12	69	1	4	20	170	65	105
APR	11	0	2	0	0	2	8	9	30	20	15
MAY	12	0	2	0	0	2	13	24	55	30	25
JUN	29	0	2	0	0	3	22	20	75	45	30
JUL	61	0	2	1	0	4	28	42	140	75	65
AUG	62	0	2	9	27	2	4	41	145	70	75
SEP	59	0	2	9	33	1	3	19	125	50	75
Total	497	0	20	69	303	18	85	212	1205	520	695

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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	
OCT	36	36	0	0	1	1	0	0	0	0	2	2	6	6	4
NOV	66	66	0	0	1	1	12	12	0	77	0	0	6	6	9
DEC	81	81	0	0	1	1	20	20	0	154	0	0	6	6	10
JAN	66	66	0	0	3	3	16	16	0	179	0	0	6	6	13
FEB	66	66	0	0	3	3	16	16	0	168	0	0	6	6	19
MAR	96	96	0	0	3	3	20	20	25	199	2	2	6	6	26
APR	18	18	0	0	3	3	0	0	0	0	2	2	12	12	13
MAY	18	18	0	0	3	3	0	0	0	0	3	3	18	18	32
JUN	51	51	0	0	2	2	0	0	0	0	4	4	36	36	28
JUL	96	96	0	0	2	2	4	4	0	0	6	6	42	42	56
AUG	96	96	0	0	3	3	12	12	0	100	2	2	6	6	55
SEP	96	96	0	0	3	3	16	16	0	114	2	2	6	6	27