

**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 90 Pct Forecast -B2, Dated 5/23/2024**  
**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	93	12	10	215	37	72	8	89	28	0	564	10	80	470	360	540
JUN	77	47	41	238	45	62	7	94	51	1	663	11	75	580	510	620
JUL	55	51	42	324	46	97	10	55	19	0	699	12	135	550	480	590
AUG	49	41	36	233	47	73	10	45	10	0	544	10	115	420	310	480
SEP	47	41	36	160	35	28	4	38	0	0	389	7	120	260	190	310
OCT	11	4	15	120	25	22	3	43	6	0	249	4	35	210	160	240
NOV	8	3	0	92	18	18	3	10	0	0	152	3	60	90	30	120
DEC	7	0	0	95	19	18	3	10	0	0	152	3	135	10	0	50
JAN	7	0	0	96	19	18	3	7	0	0	150	3	155	-10	0	30
FEB	0	0	0	88	17	18	3	10	10	0	146	3	20	120	70	160
MAR	8	1	0	99	19	18	3	11	0	0	159	3	85	70	10	110
APR	22	15	0	98	18	19	3	66	18	0	259	4	35	220	120	280
Total	384	215	180	1858	345	463	60	478	142	1	4126	73	1050	2990	2240	3530

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**Forecast of CVP Generation**  
**Based on USBR 90 Pct Forecast -B2, Dated 5/23/2024**  
**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	133	147	91	710	34	204	6	192	123	0	1640	28	1610	280	125	1485
JUN	66	74	91	568	44	207	10	192	100	2	1352	23	1330	360	110	1220
JUL	130	147	0	710	43	191	14	383	85	0	1704	29	1675	140	215	1460
AUG	128	74	91	689	66	171	13	381	90	0	1702	29	1675	160	180	1495
SEP	126	74	91	661	50	106	6	189	0	0	1301	23	1280	355	170	1110
OCT	124	0	91	646	34	102	5	187	117	0	1307	22	1285	440	55	1230
NOV	124	0	91	642	26	99	4	187	0	0	1173	21	1150	460	75	1075
DEC	124	0	91	517	26	145	4	187	0	0	1094	19	1075	490	120	955
JAN	0	0	91	522	26	144	2	187	0	0	971	17	955	645	150	805
FEB	0	0	91	529	26	144	2	187	167	0	1147	19	1130	680	40	1090
MAR	0	0	91	544	26	152	4	187	0	0	1004	18	985	620	80	905
APR	127	150	91	701	26	166	4	186	163	0	1613	27	1585	275	65	1520

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**Forecast of CVP Generation**  
**Based on USBR 90 Pct Forecast -B2, Dated 5/23/2024**  
**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	29	0	2	0	0	3	9	35	80	45	35
JUN	36	0	2	0	0	4	14	20	75	40	35
JUL	62	5	2	1	0	5	20	41	135	80	60
AUG	54	5	2	2	0	4	14	32	115	70	45
SEP	62	5	2	6	16	3	6	18	120	55	60
OCT	24	0	2	0	0	2	3	5	35	20	15
NOV	30	0	2	4	15	1	2	5	60	25	35
DEC	52	0	2	12	58	1	2	8	135	40	95
JAN	53	0	2	13	70	1	3	11	155	50	105
FEB	11	0	2	0	0	1	4	2	20	10	10
MAR	36	0	2	6	26	1	4	10	85	30	50
APR	14	0	2	0	0	2	6	9	35	20	15
Total	462	16	25	42	185	29	88	196	1050	485	560

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**Forecast of CVP Generation**  
**Based on USBR 90 Pct Forecast -B2, Dated 5/23/2024**  
**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	51	51	0	0	3	3	0	0	0	0	4	4	18	18	47
JUN	51	51	0	0	2	2	0	0	0	0	6	6	24	24	28
JUL	96	96	20	0	2	2	4	4	0	0	7	7	30	30	55
AUG	81	81	20	0	3	3	4	4	0	0	6	6	24	24	43
SEP	96	96	20	0	3	3	8	8	0	65	4	4	12	12	25
OCT	36	36	0	0	3	3	0	0	0	0	3	3	6	6	7
NOV	51	51	0	0	3	3	8	8	0	68	2	2	6	6	7
DEC	81	81	0	0	3	3	16	16	0	175	2	2	6	6	10
JAN	81	81	0	0	3	3	20	20	25	202	1	1	6	6	15
FEB	18	18	0	0	3	3	0	0	0	0	1	1	12	12	3
MAR	51	51	0	0	3	3	8	8	0	99	2	2	6	6	13
APR	36	36	0	0	3	3	0	0	0	0	3	3	12	12	13

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**Based on USBR 90 Pct Forecast -B2, Dated 5/23/2024**  
**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
MAY	93	12	10	215	37	72	8	89	28	0	10	560	80	480
JUN	77	47	41	238	45	62	7	94	51	1	11	650	75	575
JUL	55	51	42	324	46	97	10	55	19	0	12	690	135	555
AUG	49	41	36	233	47	73	10	45	10	0	10	540	115	425
SEP	47	41	36	160	35	28	4	38	0	0	7	380	120	260
OCT	11	4	15	120	25	22	3	43	6	0	4	250	35	215
NOV	8	3	0	92	18	18	3	10	0	0	3	150	60	90
DEC	7	0	0	95	19	18	3	10	0	0	3	150	135	15
JAN	7	0	0	96	19	18	3	7	0	0	3	150	155	-5
FEB	0	0	0	88	17	18	3	10	10	0	3	140	20	120
MAR	8	1	0	99	19	18	3	11	0	0	3	160	85	75
APR	22	15	0	98	18	19	3	66	18	0	4	250	35	215
Total	384	216	181	1860	344	462	58	479	142	2	72	4070	1050	3020

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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
MAY	133	147	91	710	34	204	6	192	123	0	1640	28	1610	280	125	1485
JUN	66	74	91	568	44	207	10	192	100	2	1352	23	1330	360	110	1220
JUL	130	147	0	710	43	191	14	383	85	0	1704	29	1675	140	215	1460
AUG	128	74	91	689	66	171	13	381	90	0	1702	29	1675	160	180	1495
SEP	126	74	91	661	50	106	6	189	0	0	1301	23	1280	355	170	1110
OCT	124	0	91	646	34	102	5	187	117	0	1307	22	1285	440	55	1230
NOV	124	0	91	642	26	99	4	187	0	0	1173	21	1150	460	75	1075
DEC	124	0	91	517	26	145	4	187	0	0	1094	19	1075	490	120	955
JAN	0	0	91	522	26	144	2	187	0	0	971	17	955	645	150	805
FEB	0	0	91	529	26	144	2	187	167	0	1147	19	1130	680	40	1090
MAR	0	0	91	544	26	152	4	187	0	0	1004	18	985	620	80	905
APR	127	150	91	701	26	166	4	186	163	0	1613	27	1585	275	65	1520

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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	29	0	2	0	0	3	9	35	80	45	35
JUN	36	0	2	0	0	4	14	20	75	40	35
JUL	62	5	2	1	0	5	20	41	135	80	60
AUG	54	5	2	2	0	4	14	32	115	70	45
SEP	62	5	2	6	16	3	6	18	120	55	60
OCT	24	0	2	0	0	2	3	5	35	20	15
NOV	30	0	2	4	15	1	2	5	60	25	35
DEC	52	0	2	12	58	1	2	8	135	40	95
JAN	53	0	2	13	70	1	3	11	155	50	105
FEB	11	0	2	0	0	1	4	2	20	10	10
MAR	36	0	2	6	26	1	4	10	85	30	50
APR	14	0	2	0	0	2	6	9	35	20	15
Total	462	16	25	42	185	29	88	196	1050	485	560

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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	51	51	0	0	3	3	0	0	0	0	4	4	18	18	47
JUN	51	51	0	0	2	2	0	0	0	0	6	6	24	24	28
JUL	96	96	20	0	2	2	4	4	0	0	7	7	30	30	55
AUG	81	81	20	0	3	3	4	4	0	0	6	6	24	24	43
SEP	96	96	20	0	3	3	8	8	0	65	4	4	12	12	25
OCT	36	36	0	0	3	3	0	0	0	0	3	3	6	6	7
NOV	51	51	0	0	3	3	8	8	0	68	2	2	6	6	7
DEC	81	81	0	0	3	3	16	16	0	175	2	2	6	6	10
JAN	81	81	0	0	3	3	20	20	25	202	1	1	6	6	15
FEB	18	18	0	0	3	3	0	0	0	0	1	1	12	12	3
MAR	51	51	0	0	3	3	8	8	0	99	2	2	6	6	13
APR	36	36	0	0	3	3	0	0	0	0	3	3	12	12	13