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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 4/26/2021
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
APR	25	22	8	127	27	29	4	43	1	0	286	5	20	260	200	290
MAY	37	13	8	152	32	19	3	51	5	0	320	6	40	270	90	140
JUN	36	51	46	154	38	33	5	47	15	2	427	7	20	400	360	430
JUL	35	61	56	172	45	34	5	43	18	4	473	8	20	450	400	470
AUG	37	51	46	130	36	13	2	36	10	2	363	6	25	330	260	370
SEP	28	51	46	65	22	11	2	22	0	0	247	4	80	160	110	190
OCT	11	12	23	72	21	11	2	27	0	0	179	3	85	90	60	110
NOV	10	15	10	54	15	10	2	7	0	0	123	2	45	80	30	110
DEC	8	11	6	59	15	11	2	6	0	0	118	2	70	50	0	70
JAN	7	8	5	60	15	11	2	7	0	0	115	2	115	0	0	30
FEB	6	5	5	56	14	18	3	12	0	0	119	2	25	90	50	120
MAR	6	4	5	65	15	12	2	25	0	0	134	2	20	110	60	140
Total	246	304	264	1166	295	212	34	326	49	8	2904	49	565	2290	1620	2470

United States Bureau of Reclamation - Mid Pacific Region, Central Valley Operations Office
Forecast of CVP Generation
Based on USBR 90 Pct Forecast -B2, Dated 4/26/2021
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
APR	0	150	91	247	37	151	6	337	112	0	1131	19	1115	405	35	1080
MAY	59	147	182	243	29	155	4	326	103	0	1247	21	1225	425	70	1155
JUN	57	147	182	469	36	152	7	313	90	3	1457	25	1430	125	35	1395
JUL	54	147	182	437	42	141	7	300	76	5	1391	24	1370	105	35	1335
AUG	50	147	182	399	33	131	3	144	63	2	1154	20	1135	80	55	1080
SEP	45	147	91	468	32	88	2	140	0	0	1013	18	995	290	100	895
OCT	42	150	91	458	29	43	2	137	0	0	952	17	935	310	105	830
NOV	40	77	91	456	22	129	2	135	0	0	953	17	935	155	60	875
DEC	78	77	91	464	21	129	2	271	0	0	1134	20	1115	165	80	1035
JAN	77	77	91	482	21	87	2	272	0	0	1110	19	1090	200	95	995
FEB	78	77	91	512	22	90	4	272	0	0	1146	20	1125	180	30	1095
MAR	41	154	182	552	21	98	2	270	0	0	1321	23	1300	85	35	1265

United States Bureau of Reclamation - Mid Pacific Region, Central Valley Operations Office
Forecast of CVP Generation
Based on USBR 90 Pct Forecast -B2, Dated 4/26/2021
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
APR	11	0	2	0	0	2	0	6	20	10	10
MAY	18	0	2	0	0	2	0	18	40	20	20
JUN	12	0	2	0	0	2	0	6	20	10	10
JUL	11	0	1	0	0	2	0	6	20	10	10
AUG	14	0	1	0	0	2	0	7	25	15	10
SEP	46	0	2	4	14	2	0	12	80	35	45
OCT	44	0	2	6	20	2	0	12	85	35	50
NOV	22	0	2	3	11	2	0	4	45	20	25
DEC	31	0	2	7	25	1	0	4	70	25	45
JAN	45	0	2	11	47	1	0	8	115	35	80
FEB	12	0	2	1	5	1	0	3	25	10	15
MAR	12	0	2	1	3	1	0	2	20	10	10
Total	278	0	21	34	125	20	1	87	565	235	330

United States Bureau of Reclamation - Mid Pacific Region, Central Valley Operations Office
Forecast of CVP Generation
Based on USBR 90 Pct Forecast -B2, Dated 4/26/2021
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	
APR	18	18	0	0	2	2	0	0	0	0	2	2	6	6	8
MAY	36	36	0	0	2	2	0	0	0	0	2	2	6	6	24
JUN	18	18	0	0	2	2	0	0	0	0	3	3	6	6	8
JUL	18	18	0	0	2	2	0	0	0	0	3	3	6	6	9
AUG	36	36	0	0	2	2	0	0	0	0	3	3	6	6	9
SEP	66	66	0	0	2	2	8	8	0	62	3	3	6	6	17
OCT	66	66	0	0	2	2	12	12	0	83	2	2	6	6	16
NOV	36	36	0	0	3	3	8	8	0	39	2	2	6	6	5
DEC	51	51	0	0	3	3	12	12	0	92	2	2	6	6	5
JAN	66	66	0	0	3	3	16	16	0	137	1	1	0	0	11
FEB	18	18	0	0	3	3	4	4	0	23	1	1	0	0	4
MAR	18	18	0	0	2	2	4	4	0	23	2	2	6	6	3

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Forecast of CVP Generation
Based on USBR 90 Pct Forecast -B2, Dated 4/26/2021
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
APR	25	22	8	127	27	29	4	43	1	0	5	280	20	260
MAY	37	13	8	152	32	19	3	51	5	0	6	310	40	270
JUN	36	51	46	154	38	33	5	47	15	2	7	420	20	400
JUL	35	61	56	172	45	34	5	43	18	4	8	460	20	440
AUG	37	51	46	130	36	13	2	36	10	2	6	360	25	335
SEP	28	51	46	65	22	11	2	22	0	0	4	240	80	160
OCT	11	12	23	72	21	11	2	27	0	0	3	170	85	85
NOV	10	15	10	54	15	10	2	7	0	0	2	120	45	75
DEC	8	11	6	59	15	11	2	6	0	0	2	120	70	50
JAN	7	8	5	60	15	11	2	7	0	0	2	110	115	-5
FEB	6	5	5	56	14	18	3	12	0	0	2	120	25	95
MAR	6	4	5	65	15	12	2	25	0	0	2	130	20	110
Total	245	303	263	1166	295	210	32	328	50	8	51	2840	565	2275

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Forecast of CVP Generation
Based on USBR 90 Pct Forecast -B2, Dated 4/26/2021
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
APR	0	150	91	247	37	151	6	337	112	0	1131	19	1115	405	35	1080
MAY	59	147	182	243	29	155	4	326	103	0	1247	21	1225	425	70	1155
JUN	57	147	182	469	36	152	7	313	90	3	1457	25	1430	125	35	1395
JUL	54	147	182	437	42	141	7	300	76	5	1391	24	1370	105	35	1335
AUG	50	147	182	399	33	131	3	144	63	2	1154	20	1135	80	55	1080
SEP	45	147	91	468	32	88	2	140	0	0	1013	18	995	290	100	895
OCT	42	150	91	458	29	43	2	137	0	0	952	17	935	310	105	830
NOV	40	77	91	456	22	129	2	135	0	0	953	17	935	155	60	875
DEC	78	77	91	464	21	129	2	271	0	0	1134	20	1115	165	80	1035
JAN	77	77	91	482	21	87	2	272	0	0	1110	19	1090	200	95	995
FEB	78	77	91	512	22	90	4	272	0	0	1146	20	1125	180	30	1095
MAR	41	154	182	552	21	98	2	270	0	0	1321	23	1300	85	35	1265

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Forecast of CVP Generation
Based on USBR 90 Pct Forecast -B2, Dated 4/26/2021
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
APR	11	0	2	0	0	2	0	6	20	10	10
MAY	18	0	2	0	0	2	0	18	40	20	20
JUN	12	0	2	0	0	2	0	6	20	10	10
JUL	11	0	1	0	0	2	0	6	20	10	10
AUG	14	0	1	0	0	2	0	7	25	15	10
SEP	46	0	2	4	14	2	0	12	80	35	45
OCT	44	0	2	6	20	2	0	12	85	35	50
NOV	22	0	2	3	11	2	0	4	45	20	25
DEC	31	0	2	7	25	1	0	4	70	25	45
JAN	45	0	2	11	47	1	0	8	115	35	80
FEB	12	0	2	1	5	1	0	3	25	10	15
MAR	12	0	2	1	3	1	0	2	20	10	10
Total	278	0	21	34	125	20	1	87	565	235	330

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Forecast of CVP Generation
Based on USBR 90 Pct Forecast -B2, Dated 4/26/2021
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	
APR	18	18	0	0	2	2	0	0	0	0	2	2	6	6	8
MAY	36	36	0	0	2	2	0	0	0	0	2	2	6	6	24
JUN	18	18	0	0	2	2	0	0	0	0	3	3	6	6	8
JUL	18	18	0	0	2	2	0	0	0	0	3	3	6	6	9
AUG	36	36	0	0	2	2	0	0	0	0	3	3	6	6	9
SEP	66	66	0	0	2	2	8	8	0	62	3	3	6	6	17
OCT	66	66	0	0	2	2	12	12	0	83	2	2	6	6	16
NOV	36	36	0	0	3	3	8	8	0	39	2	2	6	6	5
DEC	51	51	0	0	3	3	12	12	0	92	2	2	6	6	5
JAN	66	66	0	0	3	3	16	16	0	137	1	1	0	0	11
FEB	18	18	0	0	3	3	4	4	0	23	1	1	0	0	4
MAR	18	18	0	0	2	2	4	4	0	23	2	2	6	6	3