Western Area Power Administration
Sierra Nevada Region

Starting Forecast Month: **June 2021**

Twelve-Month Forecast of CVP Generation and Base Resource

June 2021 Through May 2022

Values at Load Center (Tracy Substation)

Exceedence Level: **90% (Dry)**

Month	CVP Generation		Project Use		First Preference		Reg & Res	Purchases and Exchanges						Base Resource		
	CVP Maximum Capability (MW)	CVP Energy Generation (GWh)	Peak Project Use Demand (MW)	Project Use (PU) Load Energy (GWh)	First Pref. (FP) Peak Demand (MW)	First Pref. (FP) Load Energy (GWh)	Estimated Ancillary Services Capacity (MW)	PU Forward Purchase Off-Peak Energy (GWh)	PU & FP Capacity Purchase Reqmts. (MW)	Additional PU & FP Energy Purchase Reqmts. (GWh)	(This column for future use) (MW)	(This column for future use) (GWh)	Ancilliary Services Purchase Reqmt. (MW)	Project Capacity Available for BR (MW)	Energy Available for Base Resource (GWh)	Capacity Factor (%)
Column	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Jun-2021	1390	400	45	30	23.2	16.7	182.0	0.0	0.0	0.0			0.0	1,139.8	353.3	43.0
Jul-2021	1315	430	65	35	25.1	18.7	182.0	0.0	0.0	0.0			0.0	1,042.9	376.3	48.5
Aug-2021	1215	340	60	30	25.9	19.3	182.0	0.0	0.0	0.0			0.0	947.1	290.7	41.3
Sep-2021	890	260	75	40	23.2	16.7	182.0	0.0	0.0	0.0			0.0	609.8	203.3	46.3
Oct-2021	955	200	130	115	23.2	17.2	182.0	0.0	0.0	0.0			0.0	619.8	67.8	14.7
Nov-2021	900	120	35	20	26.6	19.2	182.0	0.0	0.0	0.0			0.0	656.4	80.8	17.1
Dec-2021	1065	110	75	60	25.7	19.1	182.0	0.0	0.0	0.0			0.0	782.3	30.9	5.3
Jan-2022	1045	110	115	110	28.4	21.1	182.0	0.0	0.0	21.1			0.0	719.6	0.0	0.0
Feb-2022	1085	110	35	20	28.7	19.3	182.0	0.0	0.0	0.0			0.0	839.3	70.7	12.5
Mar-2022	1250	130	35	20	26.7	19.8	182.0	0.0	0.0	0.0			0.0	1,006.3	90.2	12.1
Apr-2022	1400	250	35	20	23.0	16.5	182.0	0.0	0.0	0.0			0.0	1,160.0	213.5	25.6
May-2022	1235	270	80	70	22.8	16.9	182.0	0.0	0.0	0.0			0.0	950.2	183.1	25.9
Total	13,745.0	2,730.0	785.0	570.0	302.4	220.6		0.0		21.1					1,960.5	

Exceedence Level **50% (Average)**

Month	CVP Generation		Project Use		First Preference		Reg & Res	Purchases and Exchanges						Base Resource		
	Maximum CVP Capacity (MW)	CVP Energy Generation (GWh)	Peak Project Use Demand (MW)	Project Use (PU) Load Energy (GWh)	First Pref. (FP) Peak Demand (MW)	First Pref. (FP) Load Energy (GWh)	Estimated Ancillary Services Capacity (MW)	PU Forward Purchase Off-Peak Energy (GWh)	PU & FP Capacity Purchase Reqmts. (MW)	Additional PU & FP Energy Purchase Reqmts. (GWh)	(This column for future use)	(This column for future use)	Ancilliary Services Purchase Reqmt. (MW)	Project Capacity Available for BR (MW)	Energy Available for Base Resource (GWh)	Capacity Factor (%)
Column	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Jun-2021	1405	400.0	40.0	25.0	23.2	16.7	182.0	0.0	0.0	0.0			0.0	1,159.8	358.3	42.9
Jul-2021	1340	450.0	140.0	90.0	25.1	18.7	182.0	0.0	0.0	0.0			0.0	992.9	341.3	46.2
Aug-2021	1180	370.0	145.0	115.0	25.9	19.3	182.0	0.0	0.0	0.0			0.0	827.1	235.7	38.3
Sep-2021	885	280.0	120.0	90.0	23.2	16.7	182.0	0.0	0.0	0.0			0.0	559.8	173.3	43.0
Oct-2021	945	190.0	145.0	130.0	23.2	17.2	182.0	0.0	0.0	0.0			0.0	594.8	42.8	9.7
Nov-2021	885	140.0	185.0	140.0	26.6	19.2	182.0	0.0	0.0	19.2			0.0	491.4	0.0	0.0
Dec-2021	1055	110.0	120.0	140.0	25.7	19.1	182.0	0.0	0.0	49.1			0.0	727.3	0.0	0.0
Jan-2022	1065	110.0	125.0	130.0	28.4	21.1	182.0	0.0	0.0	41.1			0.0	729.6	0.0	0.0
Feb-2022	1130	110.0	85.0	85.0	28.7	19.3	182.0	0.0	0.0	0.0			0.0	834.3	5.7	1.0
Mar-2022	1330	130.0	105.0	125.0	26.7	19.8	182.0	0.0	0.0	14.8			0.0	1,016.3	0.0	0.0
Apr-2022	1585	290.0	60.0	25.0	23.0	16.5	182.0	0.0	0.0	0.0			0.0	1,320.0	248.5	26.1
May-2022	1320	310.0	100.0	85.0	22.8	16.9	182.0	0.0	0.0	0.0			0.0	1,015.2	208.1	27.5
Total	14,125.0	2,890.0	1,370.0	1,180.0	302.4	220.6		0.0		124.2					1,613.6	

Notes:
1. For the AS (Column G), it was assumed that Western's total operating reserve obligation to be equal to the sum of spinning reserve of 134 MW and regulation of 48 MW on average monthly long term basis.

2. Keswick releases are likely to decrease into early June based on draft drought plan targets. Final Trinity River ROD pulse happens this week, then ramps to base flows. TRD diversions will ramp up as ROD flows fall.
Warm Water Bypass at Shasta was tapered to zero by May 25/26. Base resource will fluctuate some this week as Sacramento River reductions initially felt at Shasta are offset by increasing high efficiency production at Carr and Spring Creek. D

3. Please use 90% study for all your analysis.