

Twelve-Month Forecast of CVP Generation and Base Resource
August 2019 Through July 2020
Values at Load Center (Tracy Substation)

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

Month	CVP Generation		Project Use		First Preference		Reg & Res	Purchases and Exchanges						Base Resource		
	CVP Maximum 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 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)	Ancillary Services Purchase Reqmt. (MW)	Project Capacity Available for BR (MW)	Energy Available for Base Resource (GWh)
Column	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Aug-2019	1720	640.0	195.0	130.0	11.0	8.2	182.0	0.0	0.0	0.0			0.0	1,332.0	501.8	50.6
Sep-2019	1580	450.0	150.0	95.0	9.9	7.1	182.0	0.0	0.0	0.0			0.0	1,236.1	347.9	37.8
Oct-2019	1610	400.0	45.0	25.0	11.1	8.2	182.0	0.0	0.0	0.0			0.0	1,371.9	366.8	37.1
Nov-2019	1520	210.0	70.0	50.0	14.2	10.2	182.0	0.0	0.0	0.0			0.0	1,253.8	149.8	16.1
Dec-2019	1380	190.0	130.0	135.0	15.7	11.7	182.0	0.0	0.0	0.0			0.0	1,052.3	43.3	5.7
Jan-2020	1430	160.0	130.0	135.0	15.7	11.7	182.0	0.0	0.0	0.0			0.0	1,102.3	13.3	1.6
Feb-2020	1535	140.0	85.0	60.0	16.7	11.7	182.0	0.0	0.0	0.0			0.0	1,251.3	69.3	7.3
Mar-2020	1385	230.0	135.0	145.0	14.6	10.9	182.0	0.0	0.0	0.0			0.0	1,053.4	74.1	10.1
Apr-2020	1550	310.0	60.0	40.0	12.1	8.7	182.0	0.0	0.0	0.0			0.0	1,295.9	261.3	27.1
May-2020	1465	450.0	90.0	65.0	11.1	8.2	182.0	0.0	0.0	0.0			0.0	1,181.9	376.8	44.3
Jun-2020	1700	530.0	195.0	135.0	11.0	7.9	182.0	0.0	0.0	0.0			0.0	1,312.0	387.1	39.7
Jul-2020	1605	670.0	200.0	140.0	12.1	9.0	182.0	0.0	0.0	0.0			0.0	1,210.9	521.0	59.8
Total		4,380.0		1,155.0		113.5		0.0		0.0					3,111.5	

Exceedance 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 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)	Ancillary Services Purchase Reqmt. (MW)	Project Capacity Available for BR (MW)	Energy Available for Base Resource (GWh)
Column	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Aug-2019	1720	660.0	195.0	130.0	11.0	8.2	182.0	0.0	0.0	0.0			0.0	1,332.0	521.8	52.7
Sep-2019	1585	450.0	150.0	100.0	9.9	7.1	182.0	0.0	0.0	0.0			0.0	1,243.1	342.9	37.1
Oct-2019	1620	390.0	65.0	40.0	11.1	8.2	182.0	0.0	0.0	0.0			0.0	1,361.9	341.8	34.9
Nov-2019	1535	250.0	155.0	150.0	14.2	10.2	182.0	0.0	0.0	0.0			0.0	1,183.8	89.8	10.2
Dec-2019	1400	200.0	175.0	165.0	15.7	11.7	182.0	0.0	0.0	0.0			0.0	1,027.3	23.3	3.1
Jan-2020	1465	230.0	160.0	165.0	15.7	11.7	182.0	0.0	0.0	0.0			0.0	1,107.3	53.3	6.5
Feb-2020	1600	280.0	160.0	150.0	16.7	11.7	182.0	0.0	0.0	0.0			0.0	1,241.3	118.3	12.8
Mar-2020	1430	410.0	115.0	115.0	14.6	10.9	182.0	0.0	0.0	0.0			0.0	1,116.4	294.1	36.5
Apr-2020	1595	410.0	60.0	40.0	12.1	8.7	182.0	0.0	0.0	0.0			0.0	1,340.9	381.3	35.2
May-2020	1495	490.0	90.0	65.0	11.1	8.2	182.0	0.0	0.0	0.0			0.0	1,211.9	416.8	47.8
Jun-2020	1750	640.0	170.0	115.0	11.0	7.9	182.0	0.0	0.0	0.0			0.0	1,387.0	517.1	50.1
Jul-2020	1640	700.0	200.0	140.0	12.1	9.0	182.0	0.0	0.0	0.0			0.0	1,245.9	551.0	61.4
Total		5,110.0		1,375.0		113.5		0.0		0.0					3,621.5	

Notes:

- 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.
- Trinity ROD flows ended in early August, some spill may continue for Trinity Diversions to Sacramento River. Peaking at all facilities except Trinity and river-run plants. Forced outage: SHA-3 Lockout, rejected 140 MWS due to transformer oil temp and Lewiston U-1 tripped 86 lockout. Irrigation demands steady.