

Twelve-Month Forecast of CVP Generation and Base Resource
September 2019 Through August 2020
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 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)	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
Sep-2019	1410	430.0	145.0	105.0	19.4	14.0	182.0	0.0	0.0	0.0			0.0	1,063.6	311.0	39.3
Oct-2019	1520	330.0	155.0	135.0	18.9	14.1	182.0	0.0	0.0	0.0			0.0	1,164.1	180.9	20.9
Nov-2019	1410	250.0	135.0	140.0	22.7	16.3	182.0	0.0	0.0	0.0			0.0	1,070.3	93.7	12.2
Dec-2019	1605	190.0	170.0	165.0	24.1	17.9	182.0	0.0	0.0	0.0			0.0	1,228.9	7.1	0.8
Jan-2020	1460	170.0	110.0	105.0	24.2	18.0	182.0	0.0	0.0	0.0			0.0	1,143.8	47.0	5.7
Feb-2020	1630	140.0	85.0	50.0	26.4	18.4	182.0	0.0	0.0	0.0			0.0	1,336.6	71.6	7.2
Mar-2020	1435	230.0	90.0	65.0	22.6	16.8	182.0	0.0	0.0	0.0			0.0	1,140.4	148.2	17.5
Apr-2020	1475	310.0	55.0	35.0	20.1	14.5	182.0	0.0	0.0	0.0			0.0	1,217.9	260.5	30.7
May-2020	1565	480.0	85.0	60.0	19.3	14.3	182.0	0.0	0.0	0.0			0.0	1,278.7	405.7	42.6
Jun-2020	1605	550.0	170.0	110.0	20.4	14.7	182.0	0.0	0.0	0.0			0.0	1,232.6	425.3	47.9
Jul-2020	1580	860.0	235.0	150.0	21.6	16.1	182.0	0.0	0.0	0.0			0.0	1,141.4	493.9	58.2
Aug-2020	1535	590.0	200.0	135.0	21.2	15.8	182.0	0.0	0.0	0.0			0.0	1,131.8	439.2	53.9
Total	18,230.0	4,330.0	1,635.0	1,255.0		190.8		0.0		0.0					2,884.2	

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)	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
Sep-2019	1410	430.0	145.0	105.0	19.4	14.0	182.0	0.0	0.0	0.0			0.0	1,063.6	311.0	39.3
Oct-2019	1530	350.0	155.0	135.0	18.9	14.1	182.0	0.0	0.0	0.0			0.0	1,174.1	200.9	23.0
Nov-2019	1425	250.0	155.0	155.0	22.7	16.3	182.0	0.0	0.0	0.0			0.0	1,065.3	78.7	10.3
Dec-2019	1635	210.0	195.0	170.0	24.1	17.9	182.0	0.0	0.0	0.0			0.0	1,233.9	22.1	2.4
Jan-2020	1505	200.0	90.0	90.0	24.2	18.0	182.0	0.0	0.0	0.0			0.0	1,208.8	92.0	10.6
Feb-2020	1675	300.0	85.0	50.0	26.4	18.4	182.0	0.0	0.0	0.0			0.0	1,381.6	231.6	22.5
Mar-2020	1485	470.0	90.0	65.0	22.6	16.8	182.0	0.0	0.0	0.0			0.0	1,190.4	388.2	43.8
Apr-2020	1510	420.0	55.0	40.0	20.1	14.5	182.0	0.0	0.0	0.0			0.0	1,252.9	365.5	41.9
May-2020	1590	630.0	85.0	60.0	19.3	14.3	182.0	0.0	0.0	0.0			0.0	1,303.7	555.7	57.3
Jun-2020	1630	670.0	165.0	105.0	20.4	14.7	182.0	0.0	0.0	0.0			0.0	1,262.6	550.3	60.5
Jul-2020	1600	850.0	230.0	150.0	21.6	16.1	182.0	0.0	0.0	0.0			0.0	1,166.4	483.9	55.8
Aug-2020	1565	580.0	200.0	130.0	21.2	15.8	182.0	0.0	0.0	0.0			0.0	1,161.8	434.2	51.9
Total	18,560.0	5,160.0	1,650.0	1,255.0				0.0		0.0					3,714.2	

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 spill to Sacramento River has been reduced. Anticipating a Trinity River tribal ceremony pulse flow beginning around 8/31 and lasting for approx. 5 days. Project use likely to decrease on 9/1. Fall seasonal requirements for Delta operations