

Figure 6.

2019 Water Supply Scenario No. 1

SCWD Production Forecast (million gallons)	April	May	June	July	Aug	Sep	Oct	Total
	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
North Coast (gross production)	*	*	*	*	*	*	*	0
North Coast (net production)	42	40	38	36	34	32	30	252
San Lorenzo River	225	232	225	232	122	142	38	1,216
Live Oak Wells	0	0	18	21	25	24	25	113
Tait Wells	0	0	0	0	30	30	30	90
Total Production without Lake	267	272	281	289	211	228	123	1,671
Projected System Demand (row 46)	194	245	255	273	269	252	254	1,742
Curtailed System Demand								
Lake Production Needed to Meet Demand	0	0	0	0	58	24	131	213
Evaporation (feet)	0.2	0.3	0.3	0.4	0.4	0.3	0.2	2
Evaporation (mil gal)	9	13	13	18	18	13	9	93
Fish Release (mil gal)	20	20	20	20	20	20	20	140
Beginning Lake Volume	2,830	2,830	2,830	2,830	2,818	2,738	2,691	
Projected Inflow from Newell Creek	356	77	44	26	16	10	15	
End of Month Lake Volume	2,830	2,830	2,830	2,818	2,738	2,691	2,546	
End of Month Lake Elevation (ft above msl)	577.3	577.3	577.3	577.1	575.7	574.9	572.3	
Monthly change in elevation	0.0	0.0	0.0	-0.2	-1.4	-0.8	-2.6	
Cumulative change in elevation	0.0	0.0	0.0	-0.2	-1.6	-2.4	-5.0	
Percent of capacity (%)	100.0	100.0	100.0	99.6	96.7	95.1	90.0	
Actual Storage, percent of capacity								
Date Forecast Finaled: Month __, 2019								
1	Beginning lake level:		577.3					
North Coast Gross: No estimate								
North Coast: North coast net production at coast pump station ranges from 1.4 mgd in spring to 1.0 mgd in fall								
2	San Lorenzo River forecast flow		W75					
3	Releases at Tait Diversion: Hydrologic condition:		1					
Live Oak Wells: ASR testing through mid-July, per Isidro, wells operating at approx. 0.6 in June, normal operations of 0.8 mgd after mid-July								
Tait Wells: Assume 1 MGD as needed when diversion of river is constrained by fish flows								
Level of Curtailment Imposed (May thru October): None								
4	Projected unconstrained system demand: % of 2017:		100% of 2017 adjusted down 0.1 to 0.2 mgd for Pasatiempo using recycled water					
Assumptions for Loch Lomond Reservoir Lake level startsfull at 577.3, significant inflow after April 1 unknown								
Newell Creek Fish Release (line 15) - Normal release - 1.0 cfs								
Actual								
Projected San Lorenzo River stream flow at Felton 04/								
	140.0	82.1	49.0	33.2	23.0	21.1	15.7	From Appencic C, Water Shortage Contingency Plan
Additional Inflow between Big Trees and Tait Diversion								
	1.0	1.0	0.5	0.5	0.0	0.0	0.0	
Flow at Tait St Diversion (cfs)								
	141.0	83.1	49.5	33.7	23.0	21.1	15.7	
Instream rearing flow release at Tait Diversion (cfs)								
	18.4	18.5	18.5	18.2	16.4	13.3	13.3	From April 30 2018 Tolling Agreement Short-Term Flows, San Lon
Release Buffer (cfs)								
	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Available Flow (cfs)								
	122.1	64.1	30.5	15.0	6.1	7.3	1.9	
Production (mg)								
	225.0	232.0	225.0	232.0	122.2	141.5	38.1	
Bypass Release as % Total Flow @ Tait								
	13%	22%	37%	54%	71%	63%	85%	
Actual Flow								
Pleasure Point Monitoring Well Projected Groundwater Elevation (feet above MSL)								
Estimated monthly demand (mg)								
	194	245	255	273	269	252	254	1,742
Estimated daily demand (mgd) - 100% of 2017 adjust								
	6.5	7.9	8.5	8.8	8.7	8.4	8.2	8.1