

Appendix G

Selected Reservoir, Hydropower Facility, and Demand Data

Table G-1. Reservoir Minimum and Maximum Elevations (H; meters) and Storages (S; thousand acre feet—TAF)

Reservoir Name	H ^{min} (m)	H ^{max} (m)	S ^{min} (TAF)	S ^{max} (TAF)
Clair Engle Lake	2145	2380	313	2617
Whiskeytown	1000	1223	0.23	284
Shasta	900	1068	1167	4347
Oroville	640	900	852.2	3537.8
Folsom	327	475.4	83	1082
New Melones	800	1100	273	2571
Tulloch	57	67	10	20
San Luis	300	546	15.5	2026
Black Butte	414.6	473.5	6.64	143.7
New Bullards Bar	1732	1955	233.6	960

Table G-2. Hydro Power Plant Units and Capacities (MW)

Power Plant	Units	Plant Capacity (MW)
Trinity	2	140
Lewiston	1	0.35
JF Carr	2	141.4
Spring Creek	2	150
Shasta	5	659
Keswick	3	75
Oroville	6	600
Folsom	3	210
Nimbus	2	13.5
New Melones	2	150
Black Butte		
New Bullards Bar	2	284

Table G-3. Monthly Average Inflows for Selected Locations (TAF)

Month	Whisktown	Keswick-Wilkens	Sacrament Misc	Eastside Streams	Delta Misc Creeks	New Melones	SJR
Jan	8.	-211.27	-100.	80.67	25.5	76.	133.
Feb	4.	-299.69	-220.	60.44	25.5	43.	31.
Mar	2.	-370.28	-330.	20.72	29.	34.	33.
Apr	1.	-267.47	-175.	21.89	19.	33.	28.
May	1.	-117.56	45.	28.71	11.1	31.	33.
Jun	2.	-125.	-15.	33.2	0.8	30.	71.
Jul	2.	-31.24	121.	30.74	0.9	30.	62.
Aug	4.	564.46	981.	21.52	1.2	30.	63.
Sep	8.	841.7	1465.	21.52	1.8	30.	78.
Oct	12.	1767.58	2482.	40.03	32.3	40.	94.
Nov	45.	1021.	1763.	67.33	17.4	70.	103.
Dec	16.	74.65	328.	146.34	15.4	110.	126.

Table G-4. Monthly Reservoir Parameters

Name	Month	S _{max} (TAF)	S _{min} (TAF)	S _{target} (TAF)	Evaporation Rate (feet)
Clair Engle	Jan	2287.00	312.63	2287.00	0.17
Clair Engle	Feb	2287.00	312.63	2287.00	0.13
Clair Engle	Mar	2287.00	312.63	2287.00	0.20
Clair Engle	Apr	2287.00	312.63	2287.00	0.39
Clair Engle	May	2287.00	312.63	2287.00	0.51
Clair Engle	Jun	2287.00	312.63	2287.00	0.58
Clair Engle	Jul	2287.00	312.63	2287.00	0.76
Clair Engle	Aug	2287.00	312.63	2287.00	0.71
Clair Engle	Sep	2287.00	312.63	2287.00	0.60
Clair Engle	Oct	2287.00	312.63	2287.00	0.30
Clair Engle	Nov	2287.00	312.63	2287.00	0.15
Clair Engle	Dec	2287.00	312.63	2287.00	0.09
WhiskeyTown	Jan	237.90	200.00	205.70	0.17
WhiskeyTown	Feb	237.90	200.00	205.70	0.13
WhiskeyTown	Mar	237.90	200.00	205.70	0.20
WhiskeyTown	Apr	237.90	200.00	237.90	0.39
WhiskeyTown	May	237.90	200.00	237.90	0.51
WhiskeyTown	Jun	237.90	200.00	237.90	0.58
WhiskeyTown	Jul	237.90	200.00	237.90	0.76
WhiskeyTown	Aug	237.90	200.00	237.90	0.71
WhiskeyTown	Sep	237.90	200.00	238.00	0.60
WhiskeyTown	Oct	237.90	200.00	230.00	0.30

WhiskeyTown	Nov	237.90	200.00	205.70	0.15
WhiskeyTown	Dec	237.90	200.00	205.70	0.09
Shasta	Jan	4552	1168	4552	0.17
Shasta	Feb	4552	1168	4552	0.13
Shasta	Mar	4552	1168	4552	0.20
Shasta	Apr	4552	1168	4552	0.39
Shasta	May	4552	1168	4552	0.51
Shasta	Jun	4552	1168	4552	0.58
Shasta	Jul	4552	1168	3882	0.76
Shasta	Aug	4552	1168	3252	0.71
Shasta	Sep	4552	1168	3252	0.60
Shasta	Oct	4552	1168	3872	0.30
Shasta	Nov	4552	1168	4252	0.15
Shasta	Dec	4552	1168	4552	0.09
Oroville	Jan	3538	855	3458	0.17
Oroville	Feb	3538	855	3538	0.13
Oroville	Mar	3538	855	3538	0.20
Oroville	Apr	3538	855	3538	0.39
Oroville	May	3538	855	3538	0.51
Oroville	Jun	3538	855	3343	0.58
Oroville	Jul	3538	855	3163	0.76
Oroville	Aug	3538	855	3163	0.71
Oroville	Sep	3538	855	3163	0.60
Oroville	Oct	3538	855	3163	0.30
Oroville	Nov	3538	855	3163	0.15
Oroville	Dec	3538	855	3163	0.09
Folsom	Jan	975	83	805	0.17
Folsom	Feb	975	83	975	0.13
Folsom	Mar	975	83	975	0.20
Folsom	Apr	975	83	975	0.39
Folsom	May	975	83	975	0.51
Folsom	Jun	975	83	975	0.58
Folsom	Jul	975	83	700	0.76
Folsom	Aug	975	83	575	0.71
Folsom	Sep	975	83	575	0.60
Folsom	Oct	975	83	575	0.30
Folsom	Nov	975	83	575	0.15
Folsom	Dec	975	83	675	0.09
New Melones	Jan	2420	273	2230	0.17
New Melones	Feb	2420	273	2420	0.13
New Melones	Mar	2420	273	2420	0.20

New Melones	Apr	2420	273	2420	0.39
New Melones	May	2420	273	2420	0.51
New Melones	Jun	2420	273	2270	0.58
New Melones	Jul	2420	273	1970	0.76
New Melones	Aug	2420	273	1970	0.71
New Melones	Sep	2420	273	1970	0.60
New Melones	Oct	2420	273	1970	0.30
New Melones	Nov	2420	273	1970	0.15
New Melones	Dec	2420	273	2040	0.09
Tulloch	Jan	67	57	57	0.00
Tulloch	Feb	67	57	57	0.00
Tulloch	Mar	67	57	58	0.00
Tulloch	Apr	67	57	60	0.00
Tulloch	May	67	57	67	0.00
Tulloch	Jun	67	57	67	0.00
Tulloch	Jul	67	57	67	0.00
Tulloch	Aug	67	57	67	0.00
Tulloch	Sep	67	57	62	0.00
Tulloch	Oct	67	57	57	0.00
Tulloch	Nov	67	57	57	0.00
Tulloch	Dec	67	57	57	0.00
San Luis	Jan	2027	450.00	1000.00	0.17
San Luis	Feb	2027	631.60	1464.02	0.13
San Luis	Mar	2027	748.10	1806.84	0.20
San Luis	Apr	2027	835.60	1975.02	0.39
San Luis	May	2027	879.92	1976.43	0.51
San Luis	Jun	2027	694.72	1546.00	0.58
San Luis	Jul	2027	442.12	1062.95	0.76
San Luis	Aug	2027	181.12	642.62	0.71
San Luis	Sep	2027	9.72	352.64	0.60
San Luis	Oct	2027	8.32	312.90	0.30
San Luis	Nov	2027	115.02	354.13	0.15
San Luis	Dec	2027	286.72	514.21	0.09

Table G-5. Monthly Minimum and Target River Flows

Name	Month	R ^{min} (cfs)	R ^{target} (cfs)
Lewiston	Jan	300	300
Lewiston	Feb	300	300

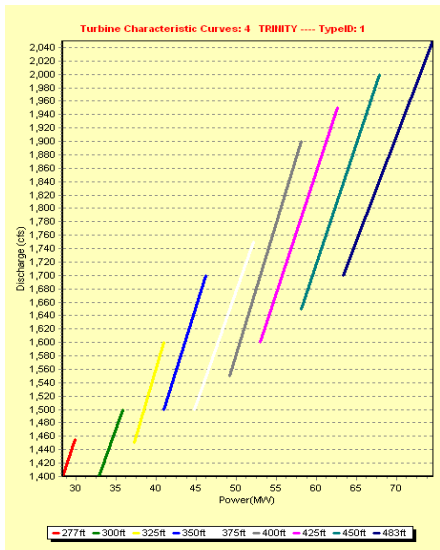
Lewiston	Mar	300	300
Lewiston	Apr	300	300
Lewiston	May	3939	300
Lewiston	Jun	2507	783
Lewiston	Jul	1102	450
Lewiston	Aug	450	450
Lewiston	Sep	450	450
Lewiston	Oct	373	0
Lewiston	Nov	300	300
Lewiston	Dec	300	300
Clear Creek	Jan	150	150
Clear Creek	Feb	200	200
Clear Creek	Mar	200	200
Clear Creek	Apr	200	200
Clear Creek	May	200	200
Clear Creek	Jun	200	200
Clear Creek	Jul	200	200
Clear Creek	Aug	200	200
Clear Creek	Sep	200	200
Clear Creek	Oct	200	200
Clear Creek	Nov	90	90
Clear Creek	Dec	90	90
Spring Creek	Jan	325	325
Spring Creek	Feb	306	306
Spring Creek	Mar	2749	2749
Spring Creek	Apr	252	252
Spring Creek	May	813	813
Spring Creek	Jun	1681	1681
Spring Creek	Jul	2602	2602
Spring Creek	Aug	2114	2114
Spring Creek	Sep	2017	2017
Spring Creek	Oct	1138	1138
Spring Creek	Nov	504	504
Spring Creek	Dec	244	244
Keswick	Jan	3250	3250
Keswick	Feb	3250	3250
Keswick	Mar	3250	3250
Keswick	Apr	8000	8000
Keswick	May	9600	9600
Keswick	Jun	11000	11000
Keswick	Jul	14500	14500

Keswick	Aug	12000	12000
Keswick	Sep	5500	5500
Keswick	Oct	7200	7200
Keswick	Nov	5700	5700
Keswick	Dec	3250	3250
Wilkins	Jan	0	0
Wilkins	Feb	0	0
Wilkins	Mar	0	0
Wilkins	Apr	5000	5000
Wilkins	May	5000	5000
Wilkins	Jun	5000	5000
Wilkins	Jul	5000	5000
Wilkins	Aug	5000	5000
Wilkins	Sep	5000	5000
Wilkins	Oct	5000	5000
Wilkins	Nov	0	0
Wilkins	Dec	0	0
FeatherBelowThermalito	Jan	1250	0
FeatherBelowThermalito	Feb	1250	0
FeatherBelowThermalito	Mar	1250	0
FeatherBelowThermalito	Apr	1250	0
FeatherBelowThermalito	May	2030	0
FeatherBelowThermalito	Jun	0	2706
FeatherBelowThermalito	Jul	0	5692
FeatherBelowThermalito	Aug	5040	5156
FeatherBelowThermalito	Sep	0	4386
FeatherBelowThermalito	Oct	1980	2683
FeatherBelowThermalito	Nov	1750	1815
FeatherBelowThermalito	Dec	1250	0
AmericanRiverbelowNimbus	Jan	800	0
AmericanRiverbelowNimbus	Feb	800	0
AmericanRiverbelowNimbus	Mar	1000	0
AmericanRiverbelowNimbus	Apr	1500	0
AmericanRiverbelowNimbus	May	2300	0
AmericanRiverbelowNimbus	Jun	1800	0
AmericanRiverbelowNimbus	Jul	0	0
AmericanRiverbelowNimbus	Aug	0	0
AmericanRiverbelowNimbus	Sep	0	0
AmericanRiverbelowNimbus	Oct	0	0
AmericanRiverbelowNimbus	Nov	1000	0
AmericanRiverbelowNimbus	Dec	800	0

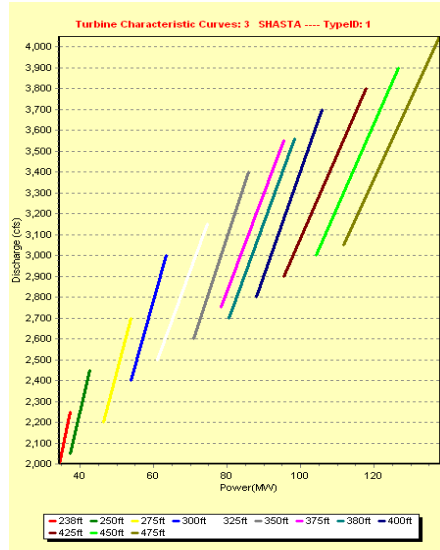
Goodwin	Jan	175	175
Goodwin	Feb	150	150
Goodwin	Mar	268	268
Goodwin	Apr	760	760
Goodwin	May	800	800
Goodwin	Jun	561	561
Goodwin	Jul	396	396
Goodwin	Aug	352	352
Goodwin	Sep	240	240
Goodwin	Oct	200	200
Goodwin	Nov	200	200
Goodwin	Dec	200	200
DeltaExit	Jan	6001	6001
DeltaExit	Feb	11398	11398
DeltaExit	Mar	11401	11401
DeltaExit	Apr	7848	7848
DeltaExit	May	9319	9319
DeltaExit	Jun	7092	7092
DeltaExit	Jul	6505	6505
DeltaExit	Aug	4261	4261
DeltaExit	Sep	3008	3008
DeltaExit	Oct	4001	4001
DeltaExit	Nov	4655	4655
DeltaExit	Dec	4505	4505

Table G-6. Monthly Base Demands (TAF)

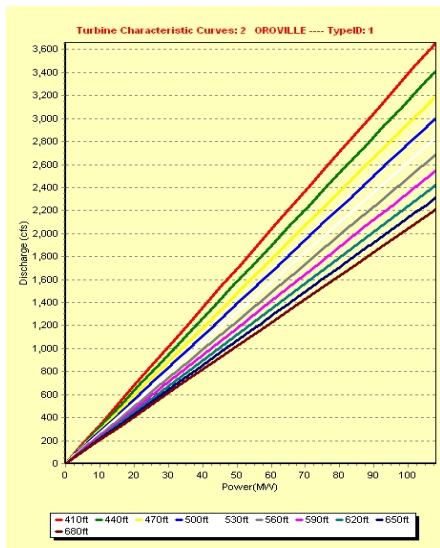
Month	Thermalito	Folsom Pumping	Folsom South Canal	OID/SSJID	Total Delta Consumption	Total South Export
1	35.00	4.00	0.96	0.00	-54.00	183.98
2	0.00	4.00	0.96	0.00	-31.90	245.18
3	11.00	4.00	1.20	14.00	-4.00	330.82
4	67.00	7.00	1.44	60.00	71.20	316.35
5	189.00	8.00	2.16	90.00	126.80	673.33
6	178.00	12.00	2.88	90.00	198.70	777.04
7	200.00	13.00	3.60	95.00	275.10	961.33
8	178.00	12.00	3.60	95.00	259.10	835.98
9	78.00	10.00	2.88	74.00	179.90	537.74
10	95.00	7.00	1.92	14.00	120.00	391.78
11	104.00	5.00	1.44	0.00	56.80	282.92
12	71.00	4.00	0.96	0.00	4.30	135.80



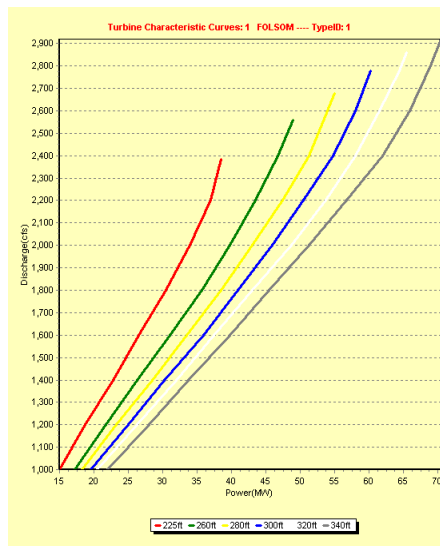
a) Trinity



b) Shasta



c) Oroville



d) Folsom

Figure G-1. Turbine Characteristic Curves for Trinity, Shasta, Oroville, and Folsom

