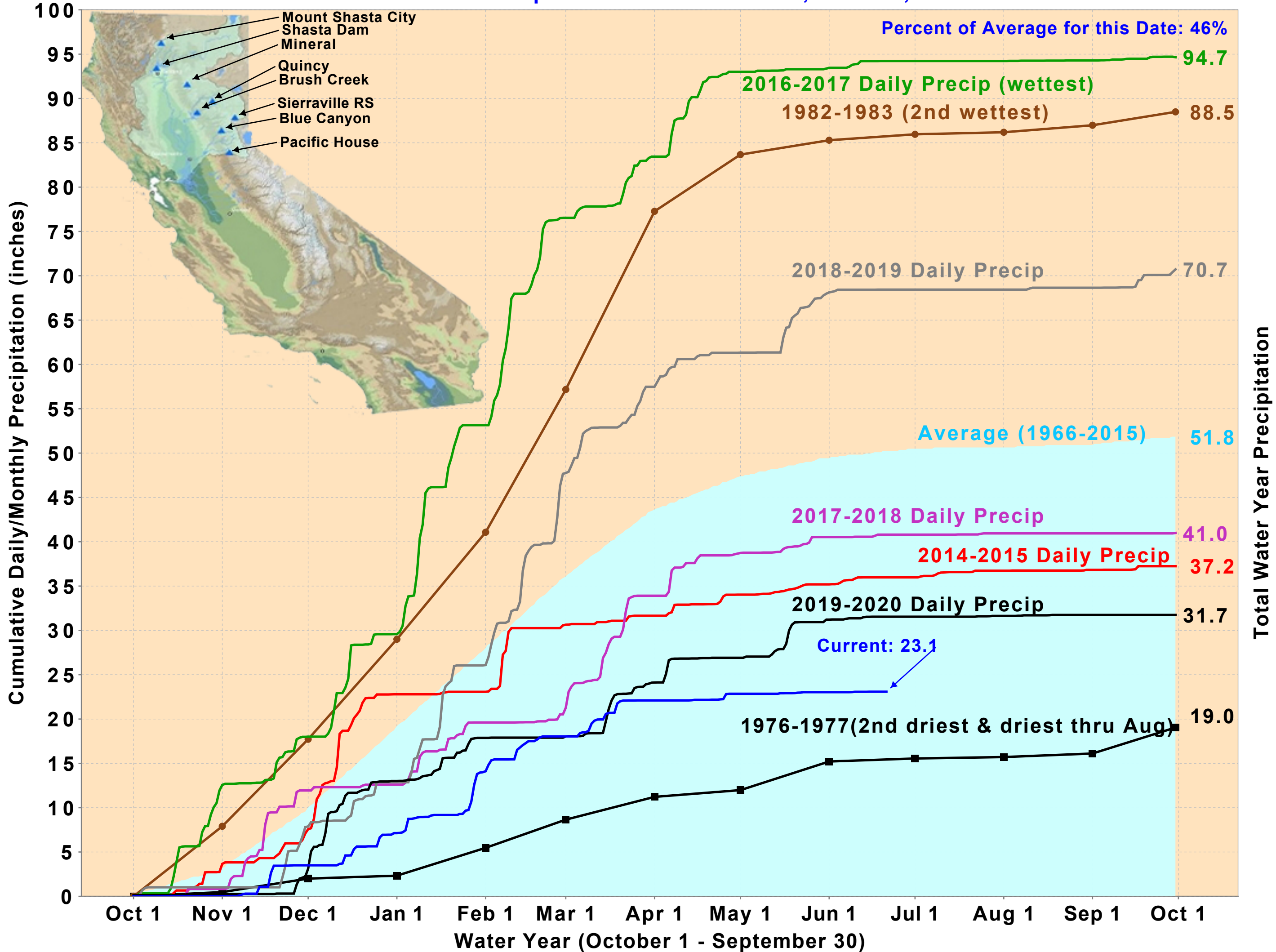
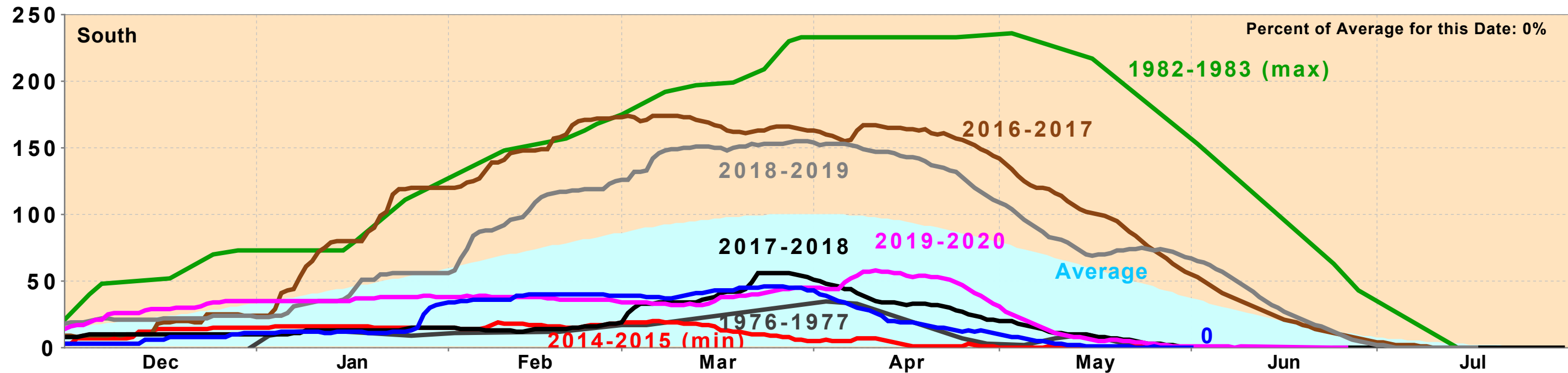
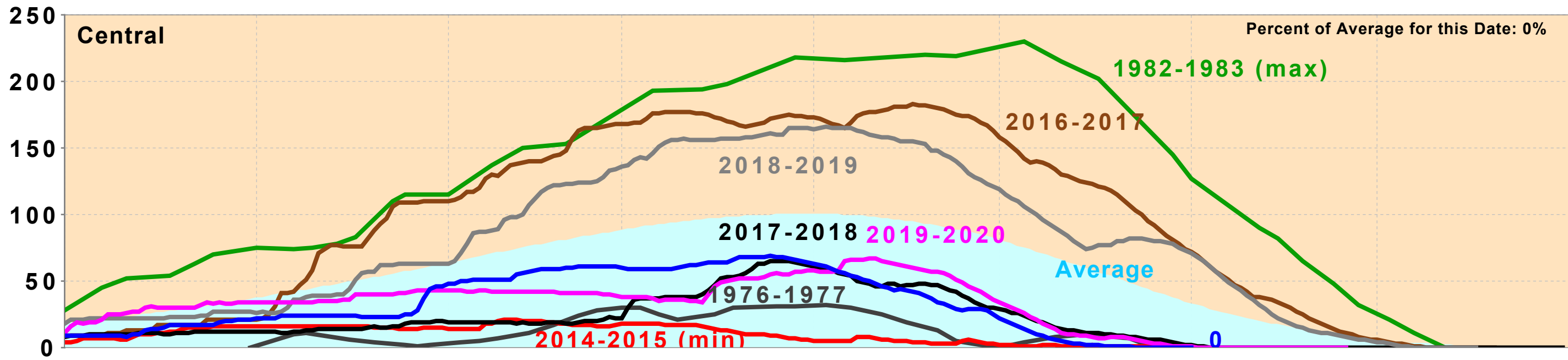
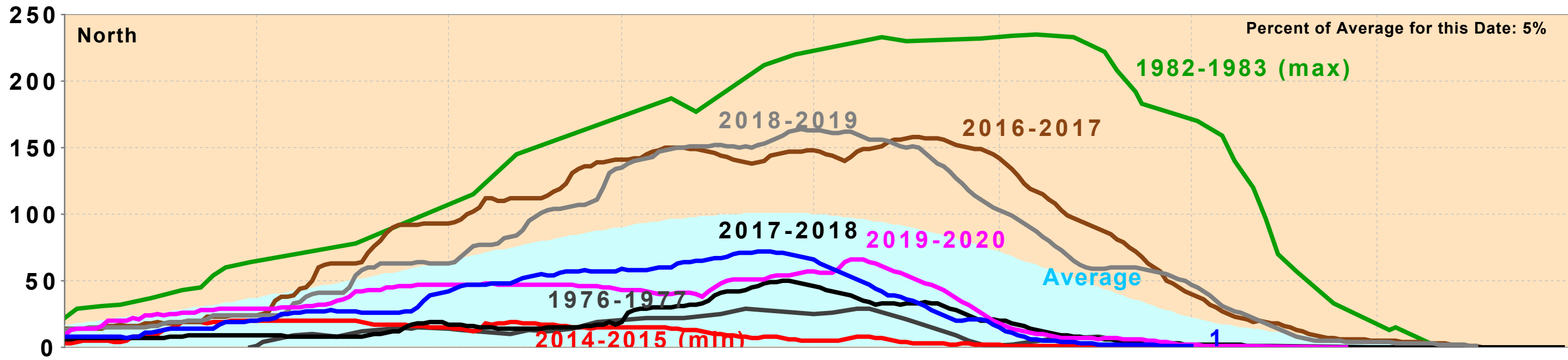


Northern Sierra Precipitation: 8-Station Index, June 21, 2021



California Snow Water Content, June 1, 2021, Percent of April 1 Average



Statewide Percent of April 1: 0%

Statewide Percent of Average for Date: 0%

DAILY CVP WATER SUPPLY REPORT

JUNE 20, 2021

RUN DATE: June 21, 2021

RESERVOIR RELEASES IN CUBIC FEET/SECOND

RESERVOIR	DAM	WY 2020	WY 2021	15 YR MEDIAN
TRINITY	LEWISTON	722	460	722
SACRAMENTO	KESWICK	11,890	8,075	10,916
FEATHER	OROVILLE (SWP)	3,300	2,750	2,750
AMERICAN	NIMBUS	2,740	1,844	3,938
STANISLAUS	GOODWIN	883	1,501	602
SAN JOAQUIN	FRIANT	410	275	353

STORAGE IN MAJOR RESERVOIRS IN THOUSANDS OF ACRE-FEET

RESERVOIR	CAPACITY	15 YR AVG	WY 2020	WY 2021	% OF 15 YR AVG
TRINITY	2,448	1,718	1,792	1,197	70
SHASTA	4,552	3,376	3,300	1,835	54
FOLSOM	977	742	759	318	43
NEW MELONES	2,420	1,476	1,753	1,271	86
FED. SAN LUIS	966	424	325	189	45
TOTAL NORTH CVP	11,363	7,735	7,929	4,810	62
MILLERTON	520	392	431	261	67
OROVILLE (SWP)	3,538	2,446	2,268	1,219	50

ACCUMULATED INFLOW FOR WATER YEAR TO DATE IN THOUSANDS OF ACRE-FEET

RESERVOIR	CURRENT WY 2021	WY 1977	WY 1983	15 YR AVG	% OF 15 YR AVG
TRINITY	330	186	2,417	957	35
SHASTA	1,981	1,952	9,669	4,089	48
FOLSOM	689	293	5,546	2,063	33
NEW MELONES	296	----	2,161	774	38
MILLERTON	426	169	3,245	1,047	41

ACCUMULATED PRECIPITATION FOR WATER YEAR TO DATE IN INCHES

RESERVOIR	CURRENT WY 2021	WY 1977	WY 1983	AVG (N YRS)	% OF AVG	LAST 24 HRS
TRINITY AT FISH HATCHERY	16.21	13.69	54.65	30.76 (59)	53	0.00
SACRAMENTO AT SHASTA DAM	23.52	17.27	112.33	59.93 (64)	39	0.00
AMERICAN AT BLUE CANYON	31.59	15.64	103.88	64.75 (46)	49	0.00
STANISLAUS AT NEW MELONES	16.78	----	45.33	26.91 (43)	62	0.00
SAN JOAQUIN AT HUNTINGTON LK	17.68	17.20	81.40	40.35 (46)	44	0.00

DATE	Mean Daily Water Temperatures (°F)														Mean Daily Release (CFS)			Mean Daily Air Temperatures (°F)		
	TCD ¹	SHD	SPP ¹	KWK	SAC ²	CCR	BSF	JLF	BND	RDB	IGO ³	LWS	DGC	NFH	Shasta Generation	Spring Creek P.P.	Keswick Total	RDD	BSF	RDB
May	52.6	55.8	51.6	57.1	57.6	58.1	59.6	60.6	61.3	62.3	53.3	50.5	53.3	55.4	4504	115	8281	72.8	69.9	71.3
06/01	54.2	52.6	51.9	55.1	56.3	57.1	59.7	61.4	62.6	64.1	56.8	51.4	56.0	60.5	6698	235	7022	87.0	82.3	83.2
06/02	53.9	52.1	51.7	55.0	56.1	56.8	59.7	61.5	62.8	64.6	56.8	51.5	56.7	61.5	5824	1157	7112	86.0	82.0	80.4
06/03	54.6	52.4	51.5	54.8	55.9	56.7	59.3	61.1	62.4	64.1	56.7	51.7	57.3	62.1	5348	772	7123	85.5	82.5	80.6
06/04	54.7	53.0	51.5	54.9	56.0	56.7	59.1	60.9	62.2	64.0	57.0	51.8	57.7	61.9	6210	902	7156	85.0	82.5	82.8
06/05	55.5	54.0	52.6	55.2	56.1	56.8	59.2	61.0	62.2	64.0	56.5	51.8	57.8	61.1	7080	77	7174	83.0	81.2	80.3
06/06	55.3	53.1	52.5	55.7	56.5	57.1	59.2	60.7	61.7	63.1	56.0	51.9	57.4	60.0	6736	77	7226	82.0	77.5	79.5
06/07	54.7	53.0	51.7	55.9	56.5	57.0	59.0	60.3	61.3	62.5	55.0	52.1	57.1	58.9	6109	624	7181	72.0	69.1	70.4
06/08	54.9	52.8	52.2	55.2	55.9	56.5	58.6	59.6	60.5	61.5	54.6	51.8	56.7	58.3	5510	1071	7126	66.0	63.9	63.5
06/09	56.0	53.8	52.1	55.0	55.7	56.1	57.9	58.9	59.9	61.0	54.5	51.2	56.3	57.7	6168	763	7138	65.5	61.9	62.5
06/10	54.5	53.3	52.3	55.4	56.0	56.4	58.0	58.9	59.8	60.8	54.6	51.1	55.6	57.4	5529	750	7170	65.5	63.0	63.2
06/11	54.3	52.4	52.2	55.4	56.2	56.8	58.6	59.4	60.2	61.0	55.3	50.5	55.9	58.2	5835	1028	7175	71.0	67.0	67.1
06/12	54.3	52.4	52.1	54.8	56.0	56.6	58.9	59.9	60.9	61.8	56.5	50.9	54.0	58.9	5572	1483	7176	75.0	73.0	73.5
06/13	54.2	53.3	52.0	54.5	55.7	-	59.1	60.5	61.9	63.5	57.0	50.3	56.2	61.4	5120	1765	7571	79.5	76.7	77.6
06/14	51.4	50.6	52.5	54.9	55.7	56.5	59.0	60.4	61.6	63.3	56.7	50.2	56.8	62.2	5323	1840	7573	78.0	74.8	74.6
06/15	51.7	50.8	52.5	54.2	55.4	56.0	58.4	59.7	60.9	62.5	56.4	50.6	56.8	61.0	5957	1229	7573	78.0	72.3	73.5
06/16	51.6	50.5	52.6	52.6	53.9	54.4	57.4	58.9	60.2	62.0	57.1	50.7	57.2	62.3	5957	1229	7573	87.5	77.7	80.0
06/17	51.3	50.6	52.6	52.8	53.9	54.5	57.0	58.4	59.5	61.2	58.0	51.1	58.2	64.3	7083	843	8076	↑ 90.0	82.8	86.2
06/18	52.3	51.0	53.1	52.5	53.7	54.3	57.0	58.6	59.9	61.6	58.6	51.4	59.0	65.8	7079	728	8081	89.0	85.0	87.0
06/19	51.9	50.4	53.1	52.8	53.8	54.4	57.0	58.4	59.8	61.6	58.4	51.5	60.0	66.9	6321	1278	8080	91.0	85.0	85.9
06/20	51.4	50.4	53.2	53.3	54.4	55.0	57.4	58.7	60.1	61.7	57.9	51.6	60.4	66.7	6153	1599	8075	87.5	82.3	83.3
06/21																				
06/22																				
06/23																				
06/24																				
06/25																				
06/26																				
06/27																				
06/28																				
06/29																				
06/30																				
-																				
Jun	53.6	52.1	52.3	54.5	55.5	56.1	58.5	59.9	61.0	62.5	56.5	51.3	57.2	61.3	6081	973	7419	80.2	76.1	76.8

Total CFS	121612	19450	148381
Total AF	241212	38578	294308

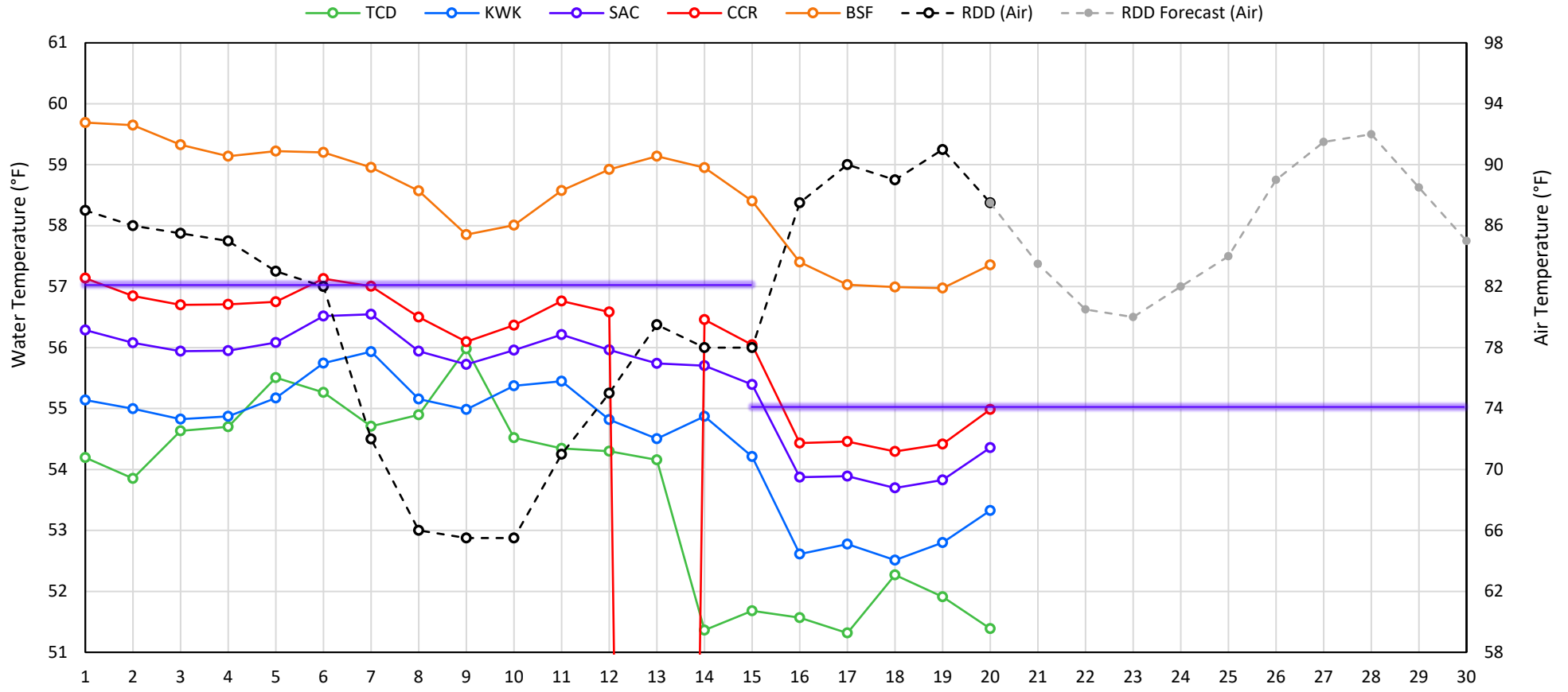
Legend

- ? = 1-9 hours of data missing (Average includes estimations)
- ! = 10 or more hours of data missing (Average not calculated)
- # = Station out of service
- ↑ = Record high air temperature
- ↓ = Record low air temperature
- ☐ = Monthly Averages

Notes

- ¹ Temperatures are weighted averages based on individual penstock flow and temperature
- Highlighted cells in the TCD column indicate a TCD change was made on that day
- ² Current Sacramento River control point (see page 4 for more details)

Mean Daily Temperatures



Station Details			
Code	Body of Water	Location ¹	CDEC Link
TCD	N/A	Shasta Power Plant	N/A
SHD	Sacramento River	0.3 miles downstream of Shasta Power Plant	Click Here
SPP	N/A	Spring Creek Power Plant	N/A
KWK	Sacramento River	0.8 miles downstream of Keswick Dam	Click Here
SAC	Sacramento River	4.8 miles downstream of Keswick Dam	Click Here
CCR	Sacramento River	9.7 miles downstream of Keswick Dam	Click Here
BSF	Sacramento River	25 miles downstream of Keswick Dam	Click Here
JLF	Sacramento River	34 miles downstream of Keswick Dam	Click Here
BND	Sacramento River	41 miles downstream of Keswick Dam	Click Here
RDB	Sacramento River	58 miles downstream of Keswick Dam	Click Here
IGO	Clear Creek	7.3 miles downstream of Whiskeytown Dam	Click Here
LWS	Trinity River	1.1 miles downstream of Lewiston Dam	Click Here
DGC	Trinity River	19 miles downstream of Lewiston Dam	Click Here
NFH	Trinity River	38 miles downstream of Lewiston Dam	Click Here

Water Right Temperature Control Points				
River	Point	Temp. (°F)	Begin Date	End Date
Sacramento	CCR	56	09/21/2020	04/18/2021
Sacramento	CCR	60	04/18/2021	05/17/2021
Sacramento	SAC	57	05/17/2021	06/15/2021
Sacramento	SAC	55	06/15/2021	TBD
Trinity	DGC	56	09/15/2021	10/01/2021
Trinity	NFH	56	10/01/2021	12/31/2021

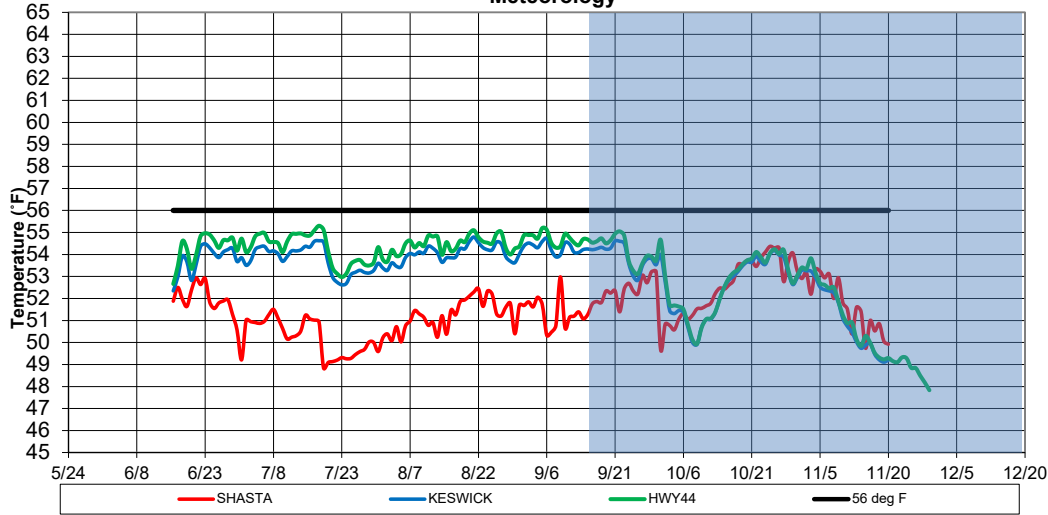
Notes

¹ Distances are approximate

Table 1. monthly forecasted operations for Shasta and Keswick Reservoir releases and estimated storage.

Operations Information/Month	June	July	August	September
Shasta Releases (TAF)	332	351	346	255
Spring Creek Power Plant (TAF)	90	110	90	90
Keswick Releases (TAF)	422	461	436	345
Keswick Releases (cfs)	7,100	7,500	7,100	5,800
Shasta End-of-Month Storage (TAF)	1,822	1,598	1,379	1,250
Clear Creek Releases (cfs)	150	150	150	150
Trinity End-of-Month Storage (TAF)	1,069	919	765	611

**Sacramento River Modeled Temperature
2021 May 90%-Exceedance Water Outlook - L3MTO 25%
Meteorology**



	Shasta deg F	Keswick deg F	Hwy44 deg F	Igo deg F	Trinity deg F	Lewiston deg F
Apr						
May						
Jun	52.0	53.8	54.3	54.6	46.4	50.2
Jul	50.2	53.8	54.3	56.6	46.8	50.9
Aug	51.2	54.0	54.5	58.9	47.8	50.9
Sep	51.9	54.1	54.5	58.2	50.4	52.3
Oct	52.5	52.5	52.6	55.6	52.5	53.5
Nov	50.8	50.3	50.5	53.0	52.0	52.1

Run date: 6/21/21 S14D

EOM Sept storage: 1.25 MAF

Trinity profile date: 6/17/21

Whiskeytown profile date: 6/15/21

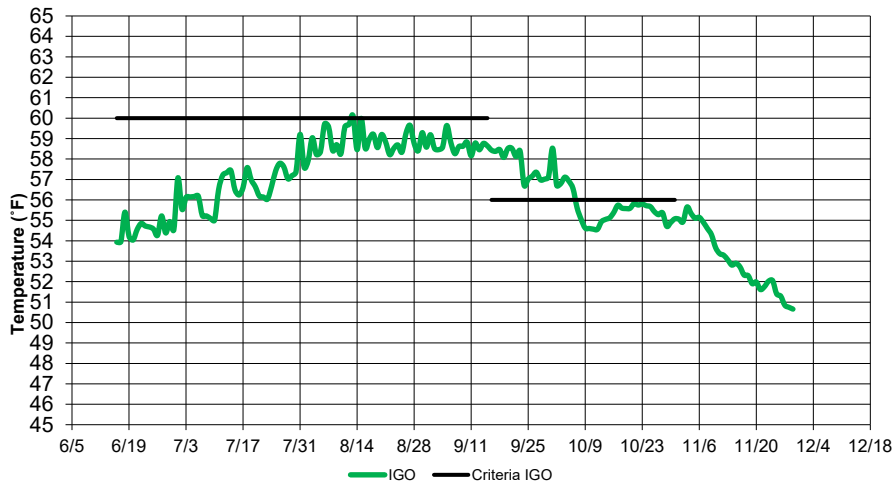
Shasta profile date: 6/16/21

Projected Side gates: First Aug 12 Full Oct 2

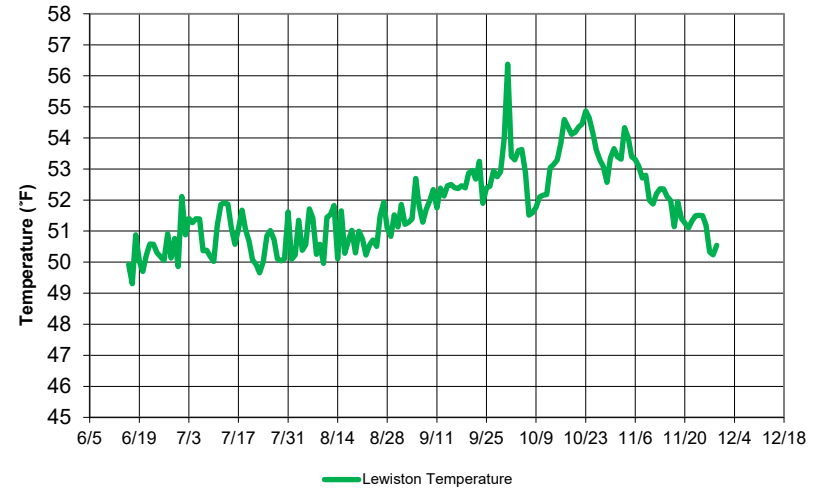
Shaded area denotes period of model limitations - see Fall Temperature Index

End of September Cold-Water-Pool less than 56 deg F: 257 TAF

**Clear Creek - Igo Modeled Temperature
2021 May 90% Exceedance Outlook - 25% L3MTO**



**Trinity - Lewiston Modeled Temperature
2021 May 90%-Exceedance Water Outlook- 25% L3MTO**



Figures 3-5 Model Performance and Fall Temperature Index:

1. Based on past analyses, the temperature model does not perform well in late September and October. One factor is that the modeled release temperatures are cooler than has historically been achieved when all release is through the side gates (lowest gates), especially when there's a large temperature gradient between the pressure relief gates (PRG) and the side gates.
2. Based on historical records, the end-of-September Lake Shasta volume below 56°F is a good indicator of fall water temperature in the river reaches.
3. Based on these records and estimates, the charts below illustrate a range of uncertainty in the expected river temperatures based on the end-of-September lake volume less than 56°F.

Sacramento River - Lake Shasta Early Fall Water Temperature - Keswick (KWK)

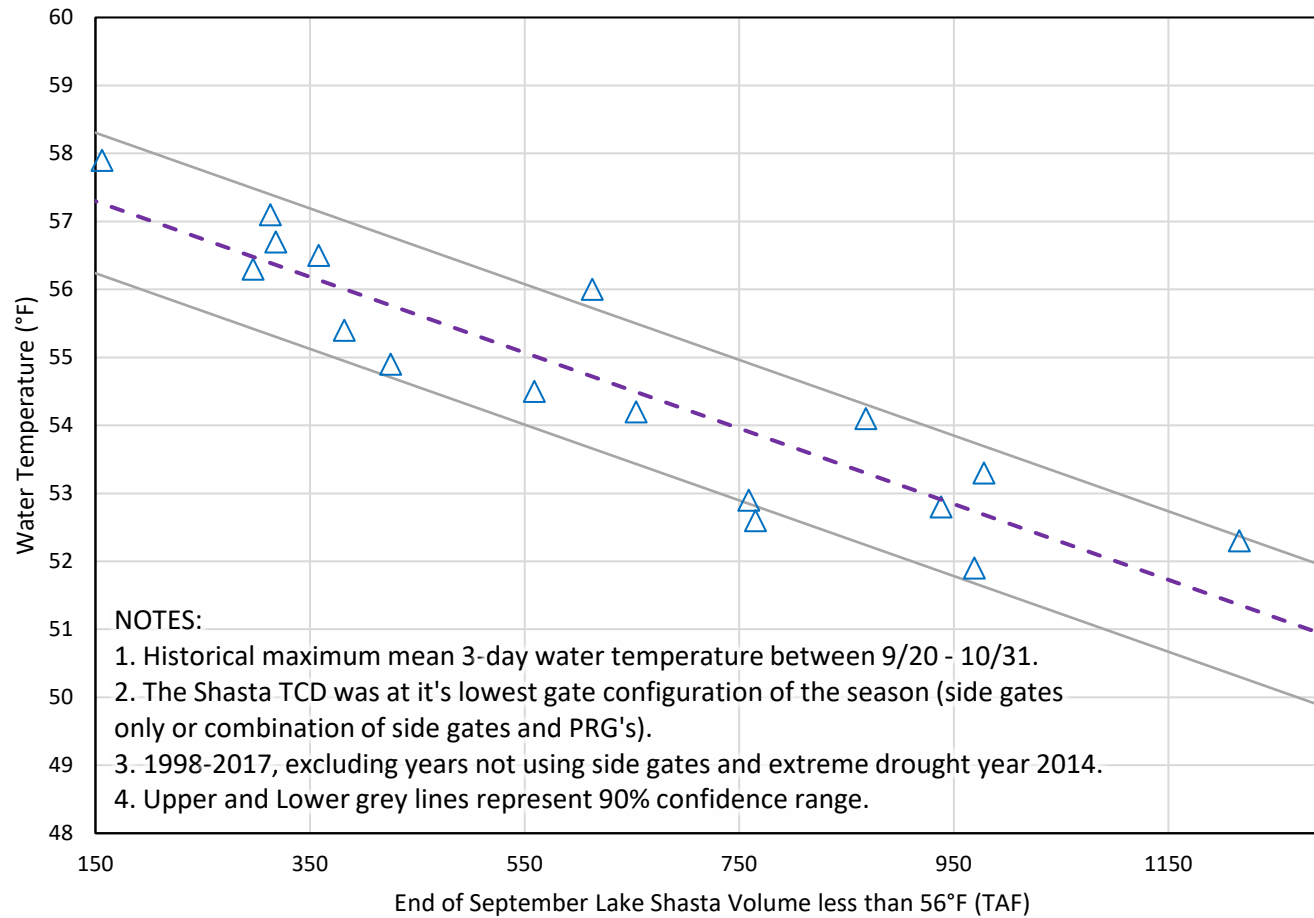


Figure 3. Historical relationship between Lake Shasta cold-water-pool characteristics and early fall Keswick water temperature.

Sacramento River - Lake Shasta
Early Fall Water Temperature - Sac River above Clear Creek (CCR)

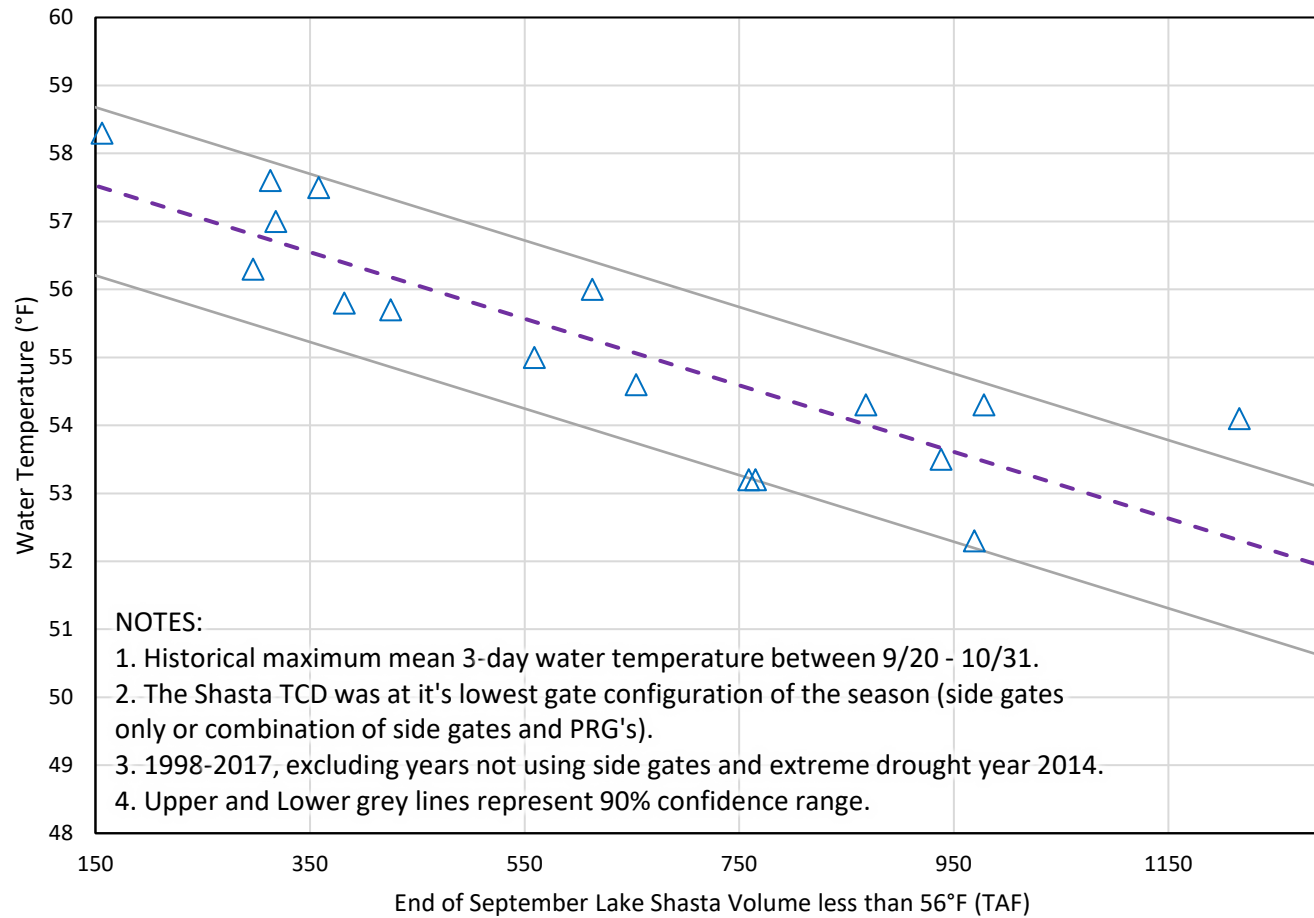


Figure 4. Historical relationship between Lake Shasta cold-water-pool characteristics and early fall Sacramento River above Clear Creek confluence water temperature.