

# Northern CVP Water Temperature Report

## February - 2019

Page	Description
1	- Mean Daily Water Temperature, Release Flow Rates and Air Temperatures with Monthly Averages
2	- Redding 10-Day Forecasted Air Temperatures
3	- Sacramento River Mean Daily Water Temperature, Air Temperature and 10-Day Forecasted Air Temperature Plot - Water Temperature Measuring Station Details - Temperature Control Point Details
4	- Daily Maximum and 7DADM
5	- Shasta Lake Isothermobaths Plot
6	- Trinity Lake Isothermobaths Plot
7	- Whiskeytown Lake Isothermobaths Plot
x	- <a href="#">TCD Configuration</a> (External Link)



All Data in this Report is Preliminary and Subject to Change

DATE	Mean Daily Water Temperatures (°F)													Mean Daily Release (CFS)			Mean Daily Air Temperatures (°F)					
	TCD <sup>1</sup>	SHD	SPP <sup>1</sup>	KWK	SAC	CCR	BSF <sup>2</sup>	JLF	BND	RDB	IGO	LWS	----- <sup>3</sup>	Shasta Generation	Spring Creek P.P.	Keswick Total	RDD	BSF	RDB	LWS		
Jan	51.5	51.0	48.6	50.3	50.1	50.4	49.3	49.2	48.9	49.1	47.9	42.9	-	2334	743	3587	50.7	47.4	48.8	40.3		
02/01	50.5	49.6	48.1	50.0	50.0	50.4	51.0	51.5	#	-	52.0	48.4	#	-	2251	327	3151	53.5	53.0	54.5	-	
02/02	50.2	49.8	47.9	50.2	#	-	50.6	50.8	51.0	#	-	51.5	49.1	#	-	2097	538	3163	52.0	50.8	51.6	-
02/03	50.3	49.7	48.0	49.9	#	-	50.3	50.3	50.5	#	-	50.8	49.0	#	-	2223	340	3236	48.5	47.8	49.7	-
02/04	50.0	49.4	48.1	49.8	#	-	49.8	47.7	48.3	#	-	49.1	47.8	#	-	2039	906	3235	44.0	43.5	45.7	-
02/05	49.9	49.3	48.0	49.4	#	-	49.5	47.0	47.0	#	-	47.2	46.0	#	-	989	1647	3228	41.0	40.6	42.2	-
02/06	50.0	49.3	48.0	49.0	!	-	49.0	47.3	46.9	#	-	46.9	46.2	#	-	1978	542	3314	40.0	39.8	40.9	-
02/07	49.9	49.4	47.8	48.8	48.6	48.6	47.0	46.6	#	-	46.4	46.5	#	-	1833	729	3388	40.5	37.8	39.2	-	
02/08	50.0	49.3	47.8	48.7	48.5	48.7	47.8	47.5	#	-	47.0	46.8	#	-	2217	481	3397	43.5	42.4	43.0	-	
02/09	49.9	49.0	47.7	48.5	48.2	48.3	47.8	47.7	#	-	47.7	46.1	#	-	2254	469	3300	42.0	43.4	43.9	-	
02/10	49.4	48.9	47.5	48.4	47.9	47.9	46.0	45.9	#	-	46.4	45.2	#	-	1987	382	3296	38.0	38.4	39.8	-	
02/11	49.4	48.7	47.6	48.4	48.1	48.1	46.5	46.2	#	-	45.7	45.6	#	-	2866	556	3303	40.5	43.0	42.1	-	
02/12	49.4	48.7	47.4	? 48.2	47.9	48.0	47.2	47.0	#	-	46.6	? 45.8	#	-	1718	1355	3291	43.5	41.6	42.0	-	
02/13	49.3	48.5	46.8	? 47.1	44.8	? 45.2	39.6	40.4	#	-	42.3	? 41.9	#	-	2130	990	3292	36.0	35.0	37.9	-	
02/14	49.3	48.9	46.8	46.9	43.9	45.4	40.7	40.3	#	-	40.2	44.4	#	-	802	1404	3361	43.5	43.3	47.1	-	
02/15																						
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Feb	49.8	49.2	47.7	48.8	47.5	48.6	46.9	46.9	-	47.1	46.3	-	-	1956	762	3283	43.3	42.9	44.3	-		

Total CFS	27384	10666	45955
Total AF	54315	21156	91150

Legend

Notes

- ? = 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

- <sup>1</sup> 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
- <sup>2</sup> Current control point (see page 3 for more details)
- <sup>3</sup> Column not used this month

D A T E	Redding (RDD) Daily Air Temperatures (°F)																																				
	Actual			Forecasted																																	
	Previous Day			Current Day			1 Day			2 Days			3 Days			4 Days			5 Days			6 Days			7 Days			8 Days			9 Days			10 Days			
	↓	↑	Avg	↓	↑	Avg	↓	↑	Avg	↓	↑	Avg	↓	↑	Avg	↓	↑	Avg	↓	↑	Avg	↓	↑	Avg	↓	↑	Avg	↓	↑	Avg	↓	↑	Avg	↓	↑	Avg	
02/01	41	69	55.0	51	57	54.0	47	55	51.0	42	54	48.0	35	48	41.5	28	51	39.5	28	55	41.5	29	55	42.0	35	56	45.5	37	58	47.5	36	61	48.5	43	62	52.5	
02/02	50	57	53.5	49	55	52.0	43	52	47.5	38	48	43.0	30	50	40.0	28	51	39.5	27	52	39.5	32	50	41.0	38	53	45.5	40	53	46.5	36	57	46.5	39	63	51.0	
02/03	48	56	52.0	47	52	49.5	38	47	42.5	28	47	37.5	28	51	39.5	28	50	39.0	32	49	40.5	34	49	41.5	39	57	48.0	39	57	48.0	37	60	48.5	39	63	51.0	
02/04	46	51	48.5	42	47	44.5	28	48	38.0	27	51	39.0	28	51	39.5	32	50	41.0	33	49	41.0	35	51	43.0	40	55	47.5	39	52	45.5	38	58	48.0	40	56	48.0	
02/05	38	50	44.0	32	49	40.5	28	50	39.0	29	51	40.0	36	50	43.0	35	49	42.0	35	49	42.0	33	50	41.5	37	52	44.5	37	58	47.5	40	60	50.0	40	59	49.5	
02/06	31	51	41.0	30	50	40.0	28	50	39.0	34	49	41.5	34	48	41.0	36	49	42.5	30	49	39.5	33	50	41.5	37	57	47.0	43	60	51.5	40	61	50.5	39	59	49.0	
02/07	30	50	40.0	31	50	40.5	34	49	41.5	34	48	41.0	35	47	41.0	30	49	39.5	33	50	41.5	34	53	43.5	37	58	47.5	38	51	44.5	35	55	45.0	39	58	48.5	
02/08	31	50	40.5	37	50	43.5	34	48	41.0	30	47	38.5	30	48	39.0	35	50	42.5	35	50	42.5	36	52	44.0	38	50	44.0	38	53	45.5	36	57	46.5	38	60	49.0	
02/09	36	51	43.5	36	48	42.0	29	47	38.0	32	47	39.5	37	50	43.5	36	49	42.5	32	52	42.0	36	49	42.5	39	52	45.5	37	53	45.0	35	56	45.5	40	60	50.0	
02/10	35	49	42.0	30	47	38.5	33	45	39.0	39	49	44.0	36	50	43.0	32	53	42.5	35	50	42.5	35	50	42.5	36	54	45.0	38	60	49.0	38	63	50.5	41	64	52.5	
02/11	28	48	38.0	33	44	38.5	37	46	41.5	38	49	43.5	34	53	43.5	37	52	44.5	35	52	43.5	34	51	42.5	44	59	51.5	40	63	51.5	42	65	53.5	42	64	53.0	
02/12	32	49	40.5	41	47	44.0	38	49	43.5	39	55	47.0	37	50	43.5	35	51	43.0	33	52	42.5	31	54	42.5	35	56	45.5	44	60	52.0	40	63	51.5	42	65	53.5	
02/13	41	46	43.5	33	42	37.5	41	55	48.0	36	48	42.0	36	49	42.5	33	51	42.0	30	53	41.5	30	53	41.5	35	57	46.0	43	61	52.0	39	63	51.0	42	65	53.5	
02/14	33	39	36.0	38	55	46.5	38	48	43.0	37	50	43.5	32	52	42.0	32	53	42.5	32	53	42.5	35	51	43.0	38	55	46.5	39	56	47.5	37	58	47.5	39	64	51.5	
02/15	36	51	43.5	36	48	42.0	38	51	44.5	32	51	41.5	32	53	42.5	32	52	42.0	35	51	43.0	34	51	42.5	35	56	45.5	41	58	49.5	36	61	48.5	39	65	52.0	
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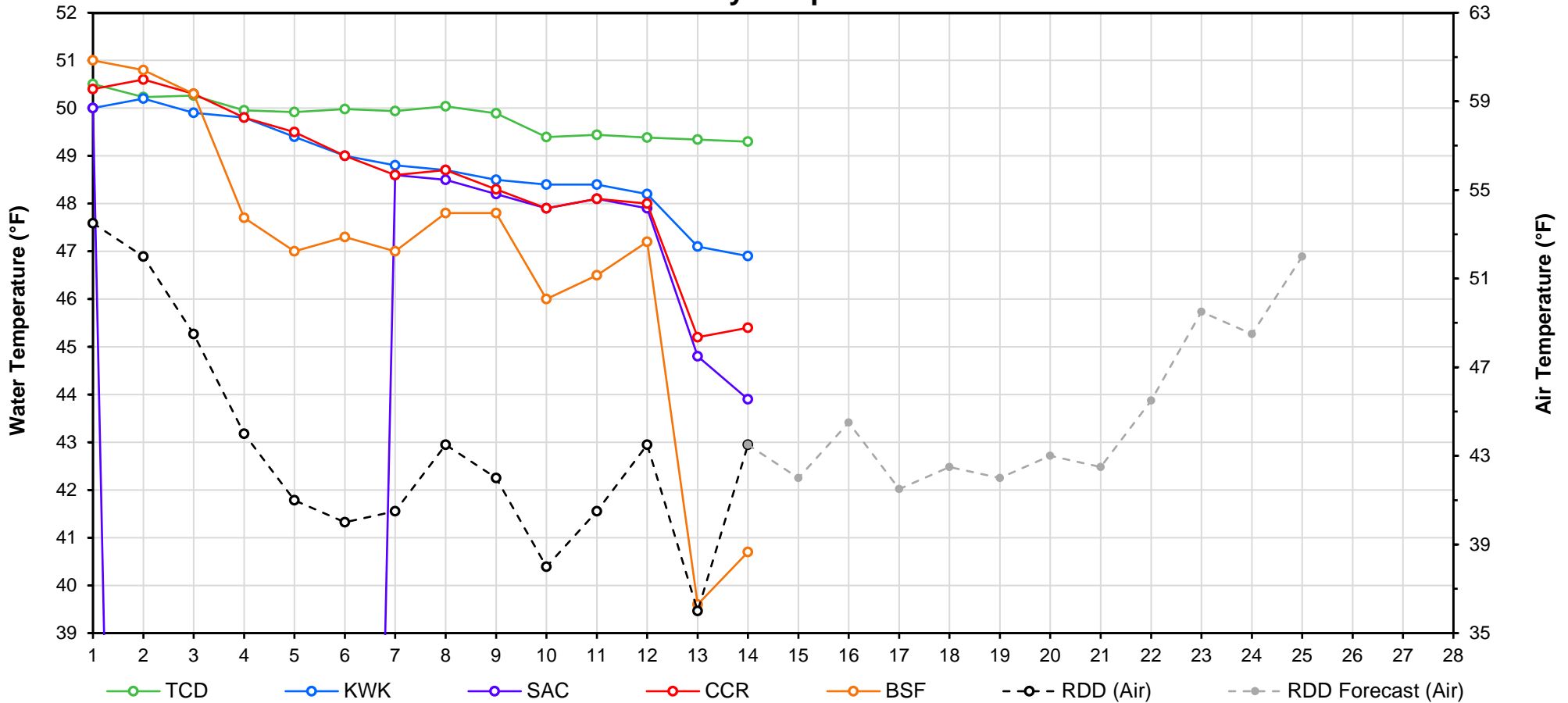
Web Links

- [10-Day Min/Max Forecast](#)
- [Previous Days Min/Max Actuals](#)

Legend

- NR = Forecasted temperatures not recorded
- 100** = Previous day actual temperatures in red and bolded indicate a record temperature for that date

# Mean Daily Temperatures



Station Details			
Code	Body of Water	Location <sup>1</sup>	CDEC Link
TCD	N/A	Shasta Power Plant	N/A
SHD	Sacramento River	0.3 miles downstream of Shasta Power Plant	<a href="#">Click Here</a>
SPP	N/A	Spring Creek Power Plant	N/A
KWK	Sacramento River	0.8 miles downstream of Keswick Dam	<a href="#">Click Here</a>
SAC	Sacramento River	4.8 miles downstream of Keswick Dam	<a href="#">Click Here</a>
CCR	Sacramento River	9.7 miles downstream of Keswick Dam	<a href="#">Click Here</a>
BSF	Sacramento River	25 miles downstream of Keswick Dam	<a href="#">Click Here</a>
JLF	Sacramento River	34 miles downstream of Keswick Dam	<a href="#">Click Here</a>
BND	Sacramento River	41 miles downstream of Keswick Dam	<a href="#">Click Here</a>
RDB	Sacramento River	58 miles downstream of Keswick Dam	<a href="#">Click Here</a>
IGO	Clear Creek	7.3 miles downstream of Whiskeytown Dam	<a href="#">Click Here</a>
LWS	Trinity River	1.1 miles downstream of Lewiston Dam	<a href="#">Click Here</a>
DGC <sup>2</sup>	Trinity River	19 miles downstream of Lewiston Dam	<a href="#">Click Here</a>
NFH <sup>3</sup>	Trinity River	38 miles downstream of Lewiston Dam	<a href="#">Click Here</a>

Temperature Control Point		
Point	Temp. (°F)	Begin Date
<b>BSF</b>	<b>56.0</b>	<b>05/25/2018</b>

### Notes

<sup>1</sup> Distances are approximate

<sup>2</sup> DGC is only reported in September

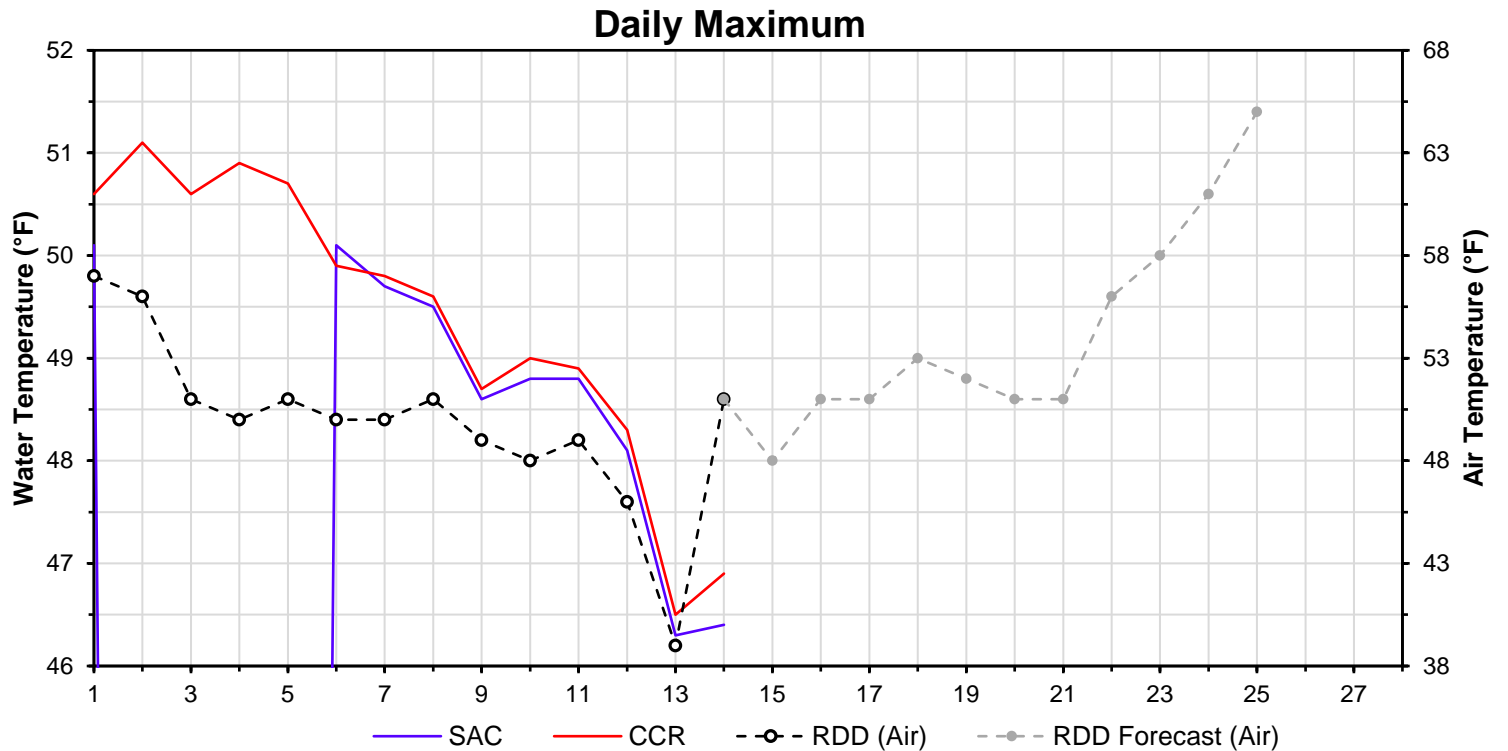
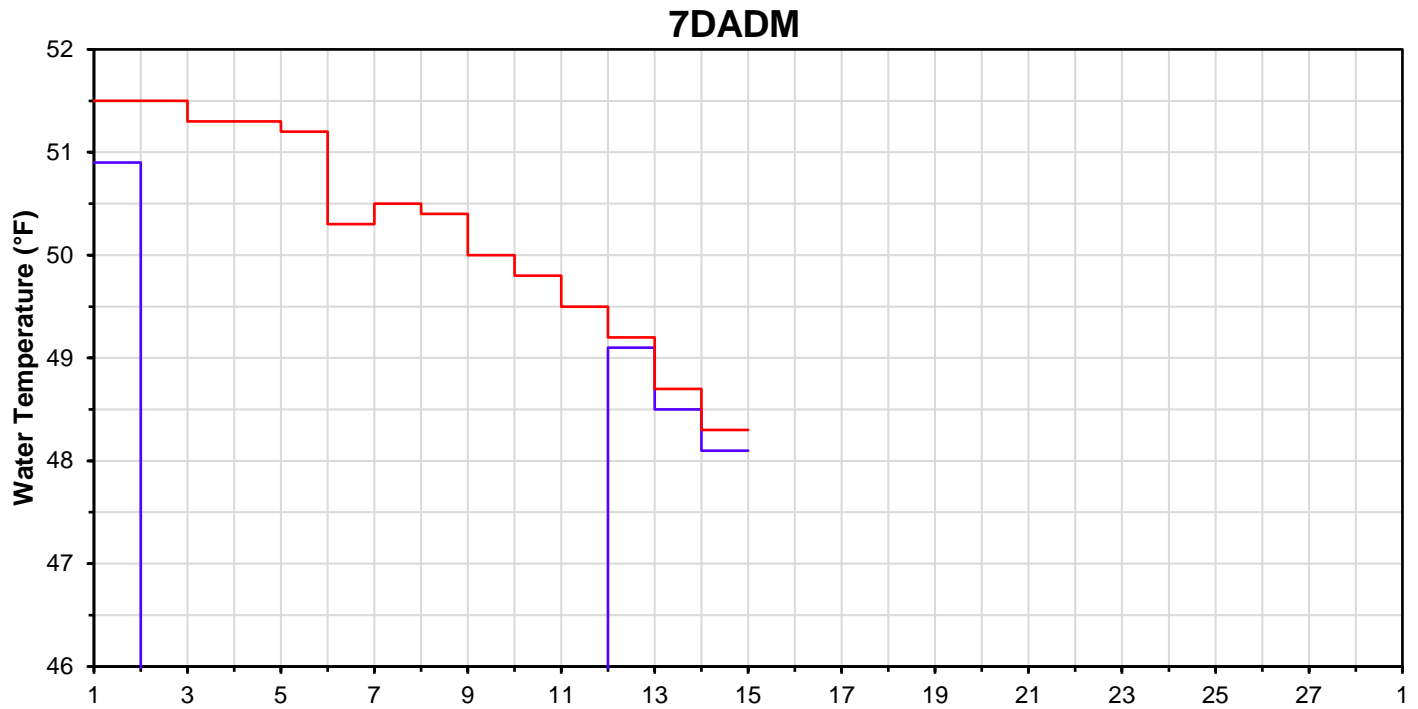
<sup>3</sup> NFH is only reported in October, November and December

DATE	Daily Max		7DADM <sup>1</sup>		DAT <sup>2</sup>
	SAC	CCR	SAC	CCR	BSF
02/01	50.1	50.6	50.9	51.5	51.0
02/02	-	51.1	-	51.5	50.8
02/03	-	50.6	-	51.3	50.3
02/04	-	50.9	-	51.3	47.7
02/05	-	50.7	-	51.2	47.0
02/06	50.1	49.9	-	50.3	47.3
02/07	49.7	49.8	-	50.5	47.0
02/08	49.5	49.6	-	50.4	47.8
02/09	48.6	48.7	-	50.0	47.8
02/10	48.8	49.0	-	49.8	46.0
02/11	48.8	48.9	-	49.5	46.5
02/12	48.1	48.3	49.1	49.2	47.2
02/13	46.3	46.5	48.5	48.7	39.6
02/14	46.4	46.9	48.1	48.3	40.7
02/15					
02/16					
02/17					
02/18					
02/19					
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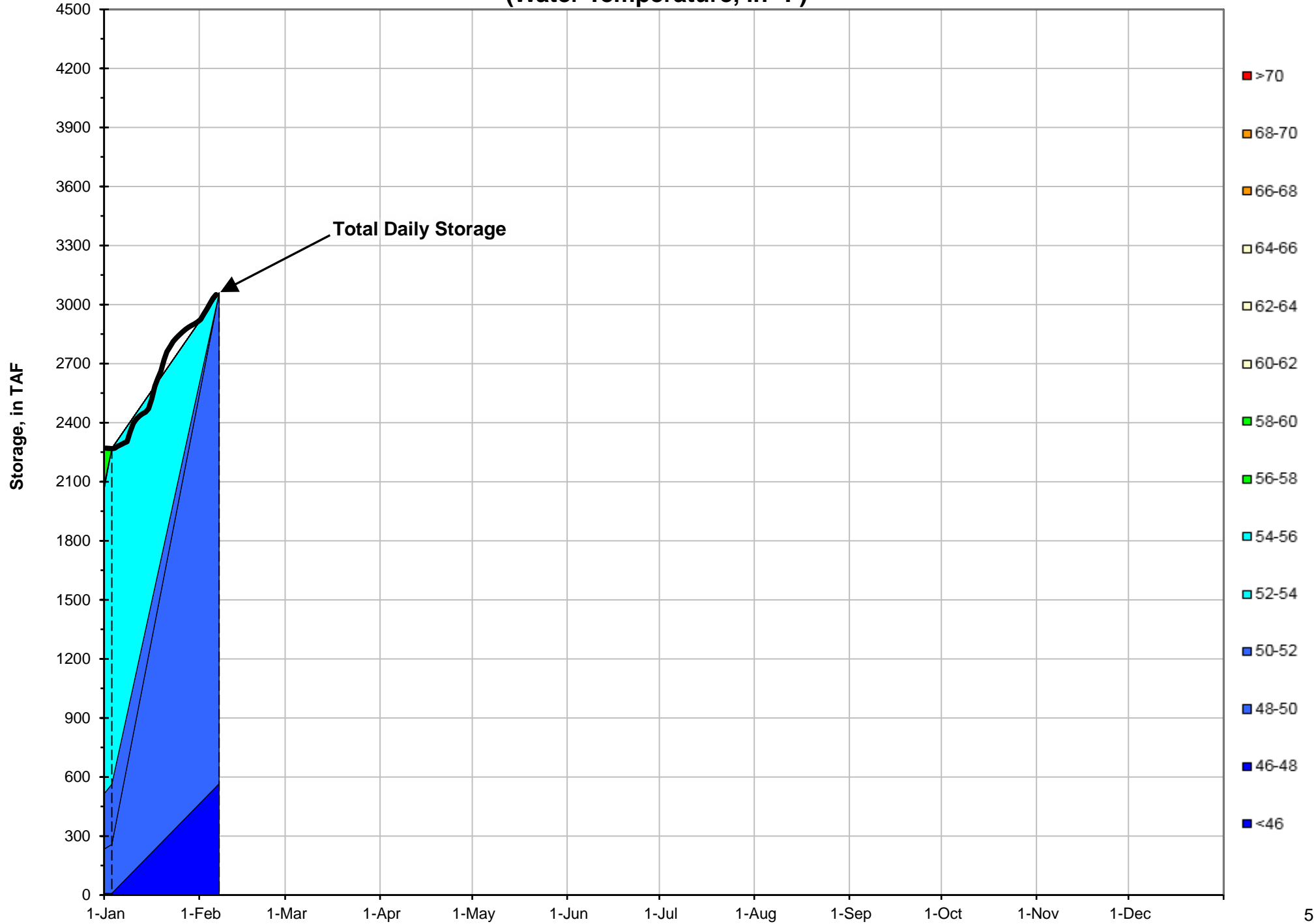
**Notes**

<sup>1</sup> 7DADM = 7-Day Average  
Daily Maximum

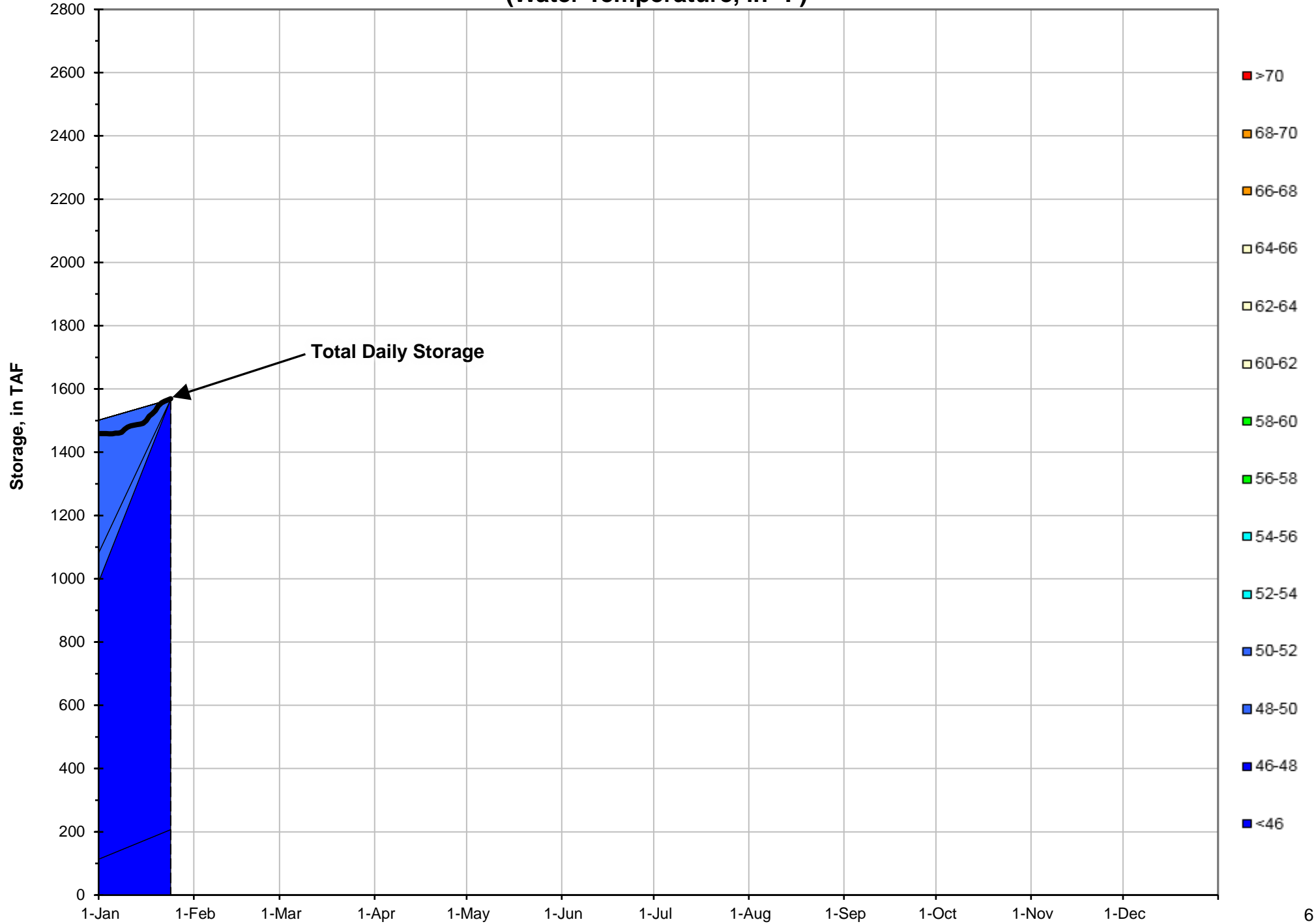
<sup>2</sup> DAT = Daily Average  
Temperature



# Shasta Lake Isothermobaths - 2019 (Water Temperature, in °F)



### Trinity Lake Isothermobaths - 2019 (Water Temperature, in °F)



# Whiskeytown Lake Isothermobaths - 2019 (Water Temperature, in °F)

