

# Northern CVP Water Temperature Report

## April - 2019

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2	- Redding 10-Day Forecasted Air Temperatures
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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 <sup>4</sup>	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	
Mar	49.2		46.8	48.2	48.6	48.6	49.3	49.7	50.4	50.2	48.6	46.3	-	13154	2002	24947	52.9	51.3	52.6	-	
04/01	50.8	# -	47.3	49.3	49.6	49.8	51.1	52.1	52.6	52.9	50.9	50.2	-	13113	1367	14931	60.0	58.0	59.8	-	
04/02	50.0	# -	47.8	49.0	49.3	49.5	50.9	51.7	52.1	52.3	50.6	50.2	-	16762	2872	14957	56.5	55.0	56.3	-	
04/03	49.2	48.6	47.8	48.9	49.3	49.3	51.1	52.1	52.4	52.5	50.8	50.5	-	16408	1472	17635	58.0	56.3	57.0	-	
04/04	49.1	48.5	47.7	48.7	48.9	48.9	50.3	51.2	51.6	52.1	50.6	50.3	-	18860	1613	26364	58.5	57.5	57.6	-	
04/05	48.5	47.8	48.0	48.1	48.5	48.3	49.5	50.3	50.7	51.2	? 50.3	50.5	-	18792	2735	29893	57.5	56.5	55.8	-	
04/06	48.5	47.9	48.1	47.9	48.3	48.1	49.4	50.1	50.5	50.7	? 50.8	50.3	-	18888	2880	30220	58.5	58.0	58.2	-	
04/07	48.8	48.1	48.0	48.1	48.3	48.2	49.5	50.4	50.7	51.5	51.8	51.2	-	18826	1553	29903	63.0	63.2	63.6	-	
04/08	49.2	48.4	48.2	48.4	48.8	48.6	50.2	50.8	51.0	51.8	52.6	51.2	-	19124	1134	30762	60.0	63.0	64.6	-	
04/09	49.7	48.8	48.9	48.6	48.8	48.8	51.0	51.8	52.2	52.4	51.6	50.8	-	18927	1794	35669	59.5	56.5	59.9	-	
04/10	50.3	49.2	48.5	49.0	49.1	49.1	50.0	50.6	50.9	51.2	50.9	51.3	-	18854	1166	39956	58.0	57.6	59.3	-	
04/11	50.4	49.3	49.2	49.1	49.1	49.1	50.1	50.7	51.0	51.2	50.9	51.1	-	18990	781	40139	58.0	56.9	58.5	-	
04/12	50.6	49.5	49.2	49.2	49.3	49.3	50.2	50.8	51.1	51.4	51.4	51.9	-	18992	797	39664	60.5	59.3	60.6	-	
04/13	50.8	49.7	48.6	49.5	49.6	49.6	50.6	51.3	51.6	52.1	52.1	52.3	-	18870	425	39749	63.5	60.0	60.9	-	
04/14	50.5	49.4	49.1	49.3	49.3	49.4	50.4	51.3	51.6	52.0	? 51.9	52.3	-	19047	152	34602	62.0	60.6	60.0	-	
04/15	50.5	49.5	49.1	49.1	49.1	49.1	49.9	50.6	50.9	50.9	!	51.9	-	18982	227	29602	53.5	53.2	53.8	-	
04/16	50.7	49.9	48.5	49.6	49.8	49.8	50.7	51.3	51.5	51.6	51.3	49.7	-	18929	427	24956	58.0	55.4	56.8	-	
04/17	51.3	50.7	49.3	50.3	50.5	50.6	51.7	52.5	52.8	53.2	52.6	47.7	-	18512	233	21027	64.0	61.2	61.6	-	
04/18	51.6	? 51.1	49.1	51.1	51.4	51.5	53.0	54.0	54.3	54.6	54.3	46.6	-	17113	184	18127	67.0	65.1	65.5	-	
04/19	51.7	? 51.6	49.3	51.3	51.7	51.9	53.7	55.1	55.4	55.9	55.0	46.5	-	14251	302	15494	67.5	66.3	67.8	-	
04/20	51.7	? 51.8	49.8	51.2	51.4	51.7	53.5	55.0	55.6	56.2	53.8	46.8	-	13715	106	13105	62.5	63.6	63.3	-	
04/21	52.3	? 51.4	49.6	51.3	51.6	51.9	53.5	54.5	54.7	55.2	53.1	47.2	-	11197	77	11159	64.0	61.5	63.1	-	
04/22	52.3	? 50.8	49.4	52.1	52.6	52.9	54.6	55.7	56.1	56.4	53.9	47.4	-	9765	128	9561	70.0	67.5	70.0	-	
04/23	52.2	50.7	49.4	52.4	? 53.1	53.5	55.8	57.2	57.6	58.2	55.5	47.6	-	7881	147	8202	↑ 78.0	73.2	76.3	-	
04/24	51.9	50.5	49.5	52.4	53.3	54.0	56.8	58.7	59.1	59.8	56.3	47.8	-	7155	236	7019	76.5	72.0	74.8	-	
04/25	51.5	50.0	49.6	52.6	53.7	54.3	57.4	59.4	60.0	60.9	56.5	48.2	-	5884	146	6107	74.5	71.8	74.0	-	
04/26	51.7	50.6	49.9	52.5	? 53.6	54.2	57.6	59.7	60.4	61.5	55.4	48.4	-	5163	135	5873	72.5	70.5	72.6	-	
04/27	52.0	50.3	49.9	52.4	53.6	54.0	57.2	59.0	59.7	60.8	55.2	48.5	-	4995	123	5612	73.5	68.0	70.6	-	
04/28	52.5	50.6	50.3	52.7	53.6	54.1	57.2	59.1	59.8	60.7	55.1	48.6	-	5465	88	5488	70.5	68.7	69.9	-	
04/29	52.3	50.9	50.2	52.5	53.5	54.1	57.0	58.7	59.4	60.3	54.5	48.9	-	4766	106	5452	74.0	67.9	69.8	-	
04/30	52.1	50.1	50.4	53.2	53.8	54.4	56.9	58.4	59.0	59.8	53.5	46.7	-	5458	85	5463	61.5	62.0	62.9	-	
-																					
Apr	50.8	49.8	49.0	50.3	50.8	50.9	52.7	53.8	54.2	54.7	52.9	49.4	-	14123	783	20556	64.0	62.2	63.5	-	
														Total CFS	423684	23491	616691				
														Total AF	840360	46593	1223181				

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

- <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
- <sup>4</sup> SHD data collected via HOBO data logger due to damage of long term station

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	
04/01	42	77	59.5	57	67	62.0	51	63	57.0	48	65	56.5	50	61	55.5	49	59	54.0	48	63	55.5	47	69	58.0	50	76	63.0	52	80	66.0	47	74	60.5	48	76	62.0	
04/02	53	67	60.0	52	63	57.5	49	65	57.0	49	61	55.0	49	59	54.0	46	60	53.0	47	67	57.0	48	72	60.0	53	81	67.0	53	81	67.0	47	79	63.0	48	74	61.0	
04/03	52	61	56.5	53	65	59.0	49	61	55.0	49	58	53.5	45	59	52.0	49	69	59.0	49	72	60.5	49	71	60.0	47	70	58.5	46	68	57.0	47	71	59.0	47	75	61.0	
04/04	53	63	58.0	54	62	58.0	50	60	55.0	46	61	53.5	50	70	60.0	52	71	61.5	49	71	60.0	44	70	57.0	48	74	61.0	48	75	61.5	50	76	63.0	48	73	60.5	
04/05	53	64	58.5	54	61	57.5	48	61	54.5	50	69	59.5	54	68	61.0	47	69	58.0	44	69	56.5	44	66	55.0	50	73	61.5	48	70	59.0	48	71	59.5	50	76	63.0	
04/06	53	62	57.5	54	61	57.5	52	69	60.5	56	68	62.0	48	69	58.5	44	69	56.5	44	66	55.0	44	69	56.5	47	62	54.5	45	70	57.5	47	73	60.0	50	77	63.5	
04/07	54	63	58.5	59	71	65.0	56	69	62.5	47	69	58.0	44	70	57.0	44	66	55.0	45	70	57.5	46	69	57.5	49	75	62.0	50	73	61.5	47	72	59.5	48	74	61.0	
04/08	58	68	63.0	60	68	64.0	47	68	57.5	44	72	58.0	47	68	57.5	47	72	59.5	48	74	61.0	50	68	59.0	47	69	58.0	46	75	60.5	48	82	65.0	54	81	67.5	
04/09	53	67	60.0	51	67	59.0	45	72	58.5	48	68	58.0	46	73	59.5	47	74	60.5	50	68	59.0	47	65	56.0	47	71	59.0	48	79	63.5	47	79	63.0	51	79	65.0	
04/10	50	69	59.5	45	72	58.5	49	67	58.0	46	74	60.0	48	76	62.0	50	69	59.5	47	65	56.0	46	67	56.5	50	82	66.0	54	86	70.0	54	82	68.0	52	74	63.0	
04/11	42	74	58.0	50	67	58.5	46	75	60.5	49	77	63.0	52	70	61.0	47	67	57.0	44	72	58.0	49	79	64.0	55	84	69.5	53	85	69.0	52	80	66.0	51	76	63.5	
04/12	49	67	58.0	49	74	61.5	48	77	62.5	52	71	61.5	48	63	55.5	46	67	56.5	50	79	64.5	53	82	67.5	54	84	69.0	54	83	68.5	49	75	62.0	51	75	63.0	
04/13	45	76	60.5	54	78	66.0	51	71	61.0	48	61	54.5	46	70	58.0	48	82	65.0	54	86	70.0	57	82	69.5	56	85	70.5	55	87	71.0	54	85	69.5	54	79	66.5	
04/14	52	75	63.5	57	70	63.5	46	60	53.0	45	71	58.0	47	81	64.0	54	87	70.5	57	84	70.5	57	76	66.5	53	78	65.5	49	80	64.5	51	78	64.5	50	76	63.0	
04/15	56	68	62.0	53	59	56.0	44	70	57.0	48	82	65.0	56	87	71.5	58	85	71.5	58	78	68.0	53	76	64.5	53	84	68.5	55	86	70.5	51	82	66.5	52	81	66.5	
04/16	48	59	53.5	47	70	58.5	49	82	65.5	56	86	71.0	58	82	70.0	57	77	67.0	51	78	64.5	52	80	66.0	52	83	67.5	55	86	70.5	54	85	69.5	55	82	68.5	
04/17	47	69	58.0	46	82	64.0	55	86	70.5	57	83	70.0	58	75	66.5	53	80	66.5	54	81	67.5	56	82	69.0	61	91	76.0	57	90	73.5	54	86	70.0	54	82	68.0	
04/18	44	84	64.0	51	87	69.0	56	84	70.0	59	73	66.0	53	81	67.0	54	85	69.5	58	87	72.5	59	85	72.0	59	87	73.0	56	86	71.0	54	81	67.5	53	81	67.0	
04/19	50	84	67.0	54	83	68.5	56	70	63.0	50	80	65.0	53	85	69.0	59	89	74.0	60	86	73.0	60	82	71.0	57	82	69.5	53	83	68.0	53	82	67.5	53	84	68.5	
04/20	53	82	67.5	57	71	64.0	49	80	64.5	53	86	69.5	59	90	74.5	61	90	75.5	61	86	73.5	60	80	70.0	56	84	70.0	53	85	69.0	54	84	69.0	55	84	69.5	
04/21	54	71	62.5	51	80	65.5	52	86	69.0	59	91	75.0	60	91	75.5	61	87	74.0	60	80	70.0	56	80	68.0	53	82	67.5	51	75	63.0	48	77	62.5	50	79	64.5	
04/22	49	79	64.0	54	87	70.5	59	92	75.5	61	92	76.5	61	89	75.0	59	84	71.5	57	84	70.5	56	78	67.0	53	76	64.5	48	74	61.0	49	74	61.5	49	78	63.5	
04/23	52	88	70.0	65	91	78.0	62	93	77.5	62	89	75.5	59	87	73.0	58	83	70.5	57	79	68.0	55	78	66.5	55	83	69.0	52	84	68.0	53	85	69.0	52	82	67.0	
04/24	63	<b>93</b>	78.0	62	93	77.5	61	90	75.5	59	88	73.5	58	88	73.0	58	82	70.0	56	81	68.5	54	77	65.5	53	80	66.5	50	80	65.0	53	84	68.5	55	83	69.0	
04/25	62	91	76.5	61	90	75.5	59	87	73.0	58	87	72.5	57	83	70.0	56	82	69.0	54	76	65.0	51	78	64.5	49	82	65.5	51	83	67.0	53	82	67.5	55	84	69.5	
04/26	60	89	74.5	57	87	72.0	58	87	72.5	56	83	69.5	56	83	69.5	54	77	65.5	51	79	65.0	52	80	66.0	54	89	71.5	55	90	72.5	57	87	72.0	53	80	66.5	
04/27	56	89	72.5	61	87	74.0	56	84	70.0	54	85	69.5	53	79	66.0	51	81	66.0	53	81	67.0	52	77	64.5	49	76	62.5	50	80	65.0	53	82	67.5	53	78	65.5	
04/28	60	87	73.5	58	84	71.0	56	84	70.0	52	77	64.5	50	81	65.5	50	82	66.0	56	84	70.0	57	81	69.0	58	80	69.0	53	84	68.5	56	85	70.5	57	85	71.0	
04/29	57	84	70.5	63	83	73.0	52	76	64.0	48	79	63.5	52	81	66.5	54	86	70.0	56	86	71.0	56	80	68.0	54	82	68.0	54	86	70.0	55	86	70.5	59	87	73.0	
04/30	63	85	74.0	55	75	65.0	47	79	63.0	50	81	65.5	53	86	69.5	55	85	70.0	56	77	66.5	55	79	67.0	56	84	70.0	54	85	69.5	53	84	68.5	57	84	70.5	
-																																					

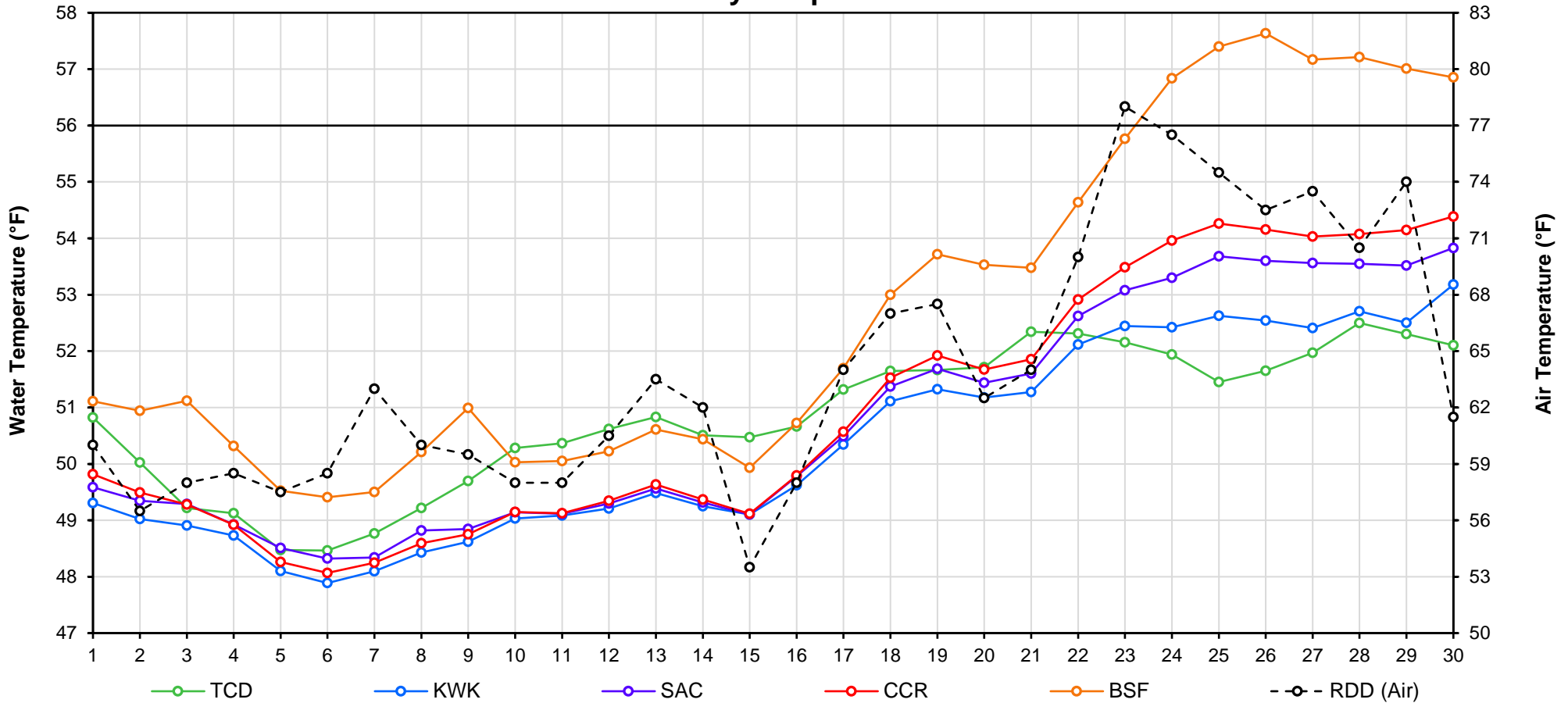
Web Links

- [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

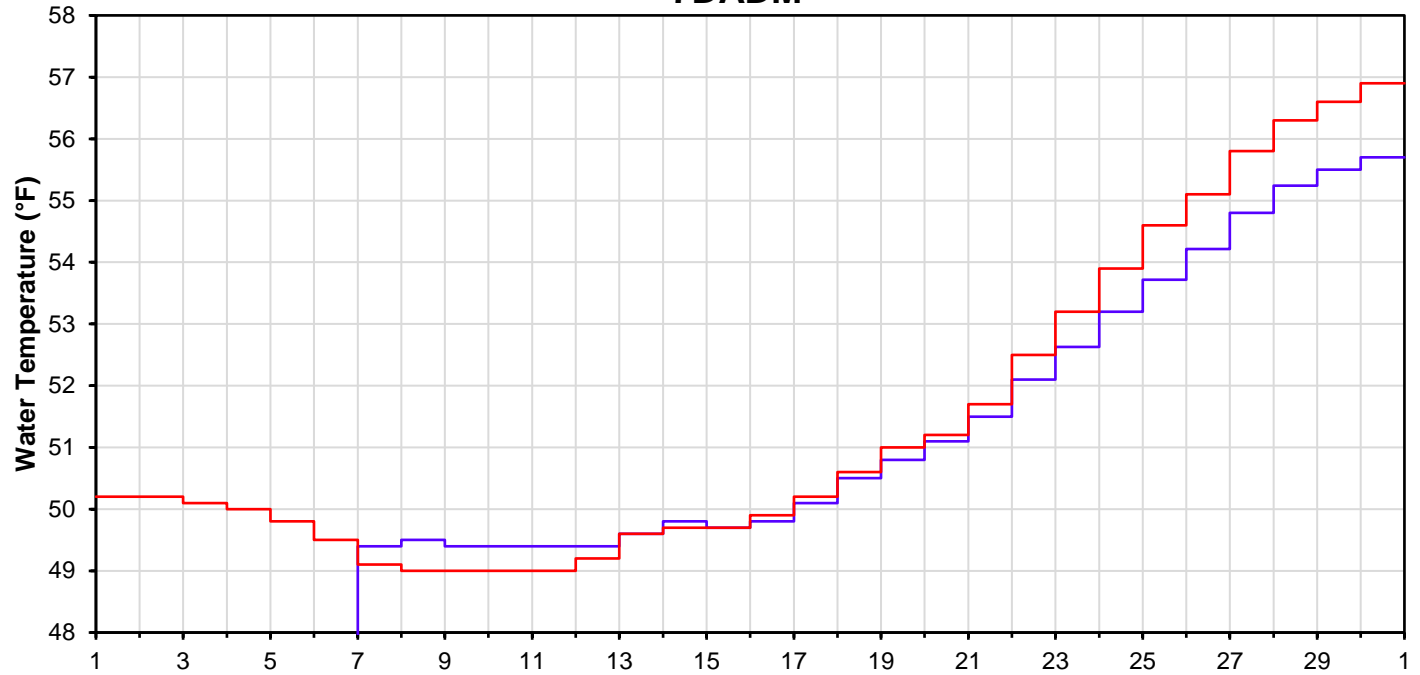
DATE	Daily Max		7DADM <sup>1</sup>		DAT <sup>2</sup>
	SAC	CCR	SAC	CCR	BSF
04/01	49.9	50.1	-	50.2	51.1
04/02	49.7	49.7	-	50.2	50.9
04/03	49.7	49.6	-	50.1	51.1
04/04	49.2	49.2	-	50.0	50.3
04/05	50.4	48.6	-	49.8	49.5
04/06	48.7	48.2	-	49.5	49.4
04/07	48.5	48.6	49.4	49.1	49.5
04/08	50.1	49.3	49.5	49.0	50.2
04/09	49.3	49.4	49.4	49.0	51.0
04/10	49.6	49.7	49.4	49.0	50.0
04/11	49.4	49.4	49.4	49.0	50.1
04/12	50.0	50.1	49.4	49.2	50.2
04/13	50.3	50.4	49.6	49.6	50.6
04/14	49.8	49.9	49.8	49.7	50.4
04/15	49.3	49.3	49.7	49.7	49.9
04/16	50.5	50.6	49.8	49.9	50.7
04/17	51.4	51.4	50.1	50.2	51.7
04/18	52.1	52.6	50.5	50.6	53.0
04/19	52.3	52.8	50.8	51.0	53.7
04/20	52.0	52.0	51.1	51.2	53.5
04/21	52.6	53.5	51.5	51.7	53.5
04/22	53.6	54.7	52.1	52.5	54.6
04/23	54.4	55.6	52.6	53.2	55.8
04/24	55.2	56.3	53.2	53.9	56.8
04/25	55.9	57.1	53.7	54.6	57.4
04/26	55.8	56.8	54.2	55.1	57.6
04/27	56.1	56.9	54.8	55.8	57.2
04/28	55.7	56.9	55.2	56.3	57.2
04/29	55.6	56.9	55.5	56.6	57.0
04/30	55.7	57.2	55.7	56.9	56.9
-					

**Notes**

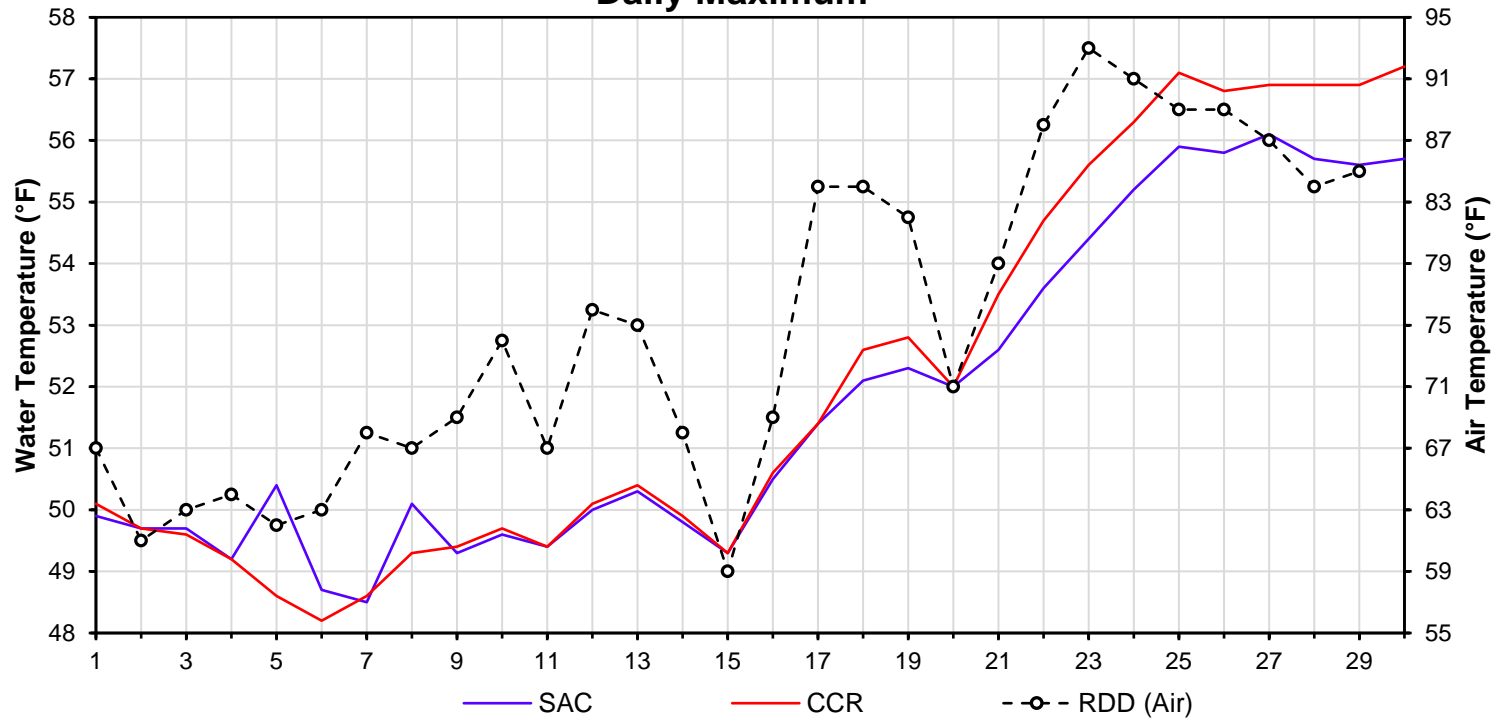
<sup>1</sup> 7DADM = 7-Day Average Daily Maximum

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

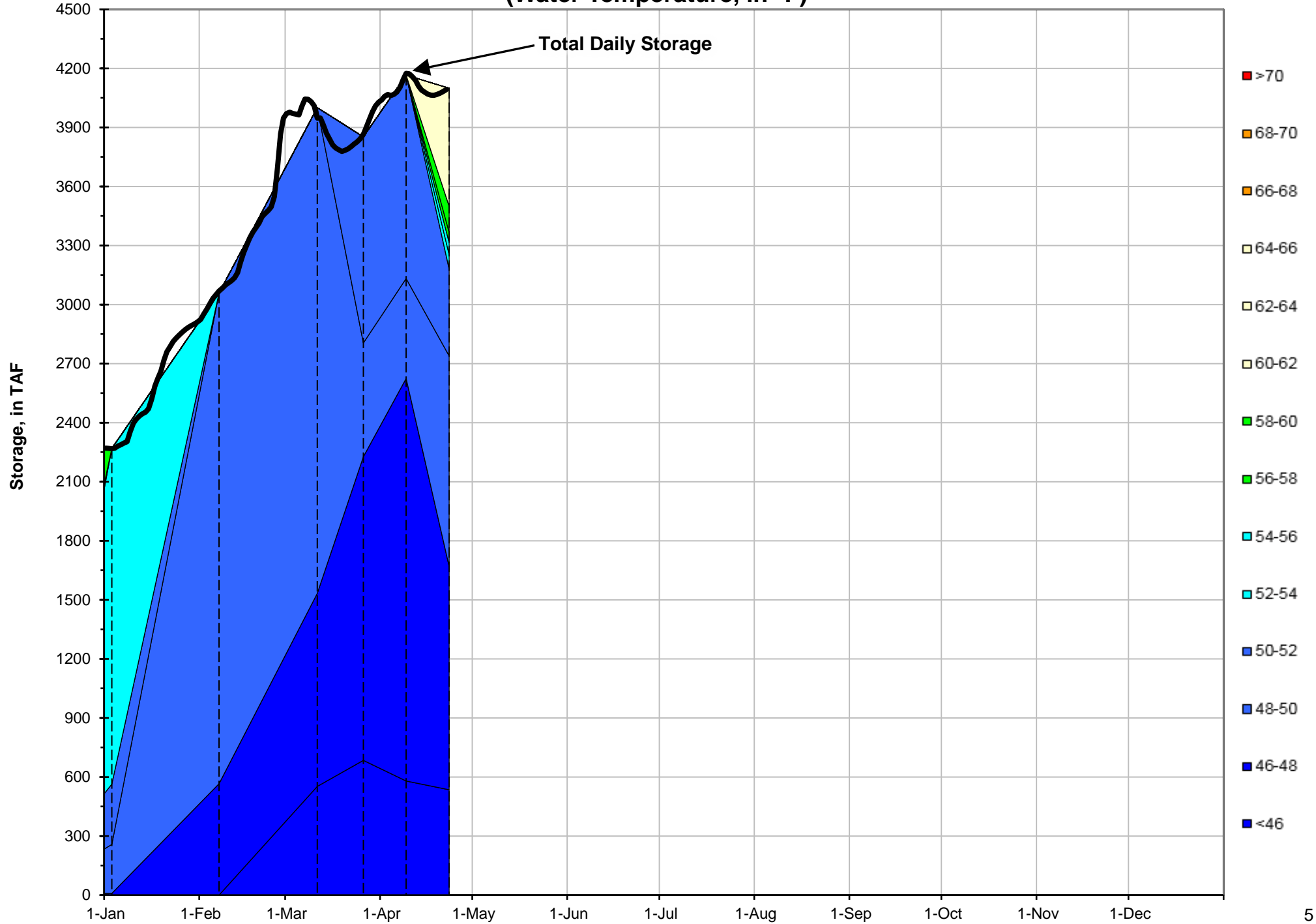
**7DADM**



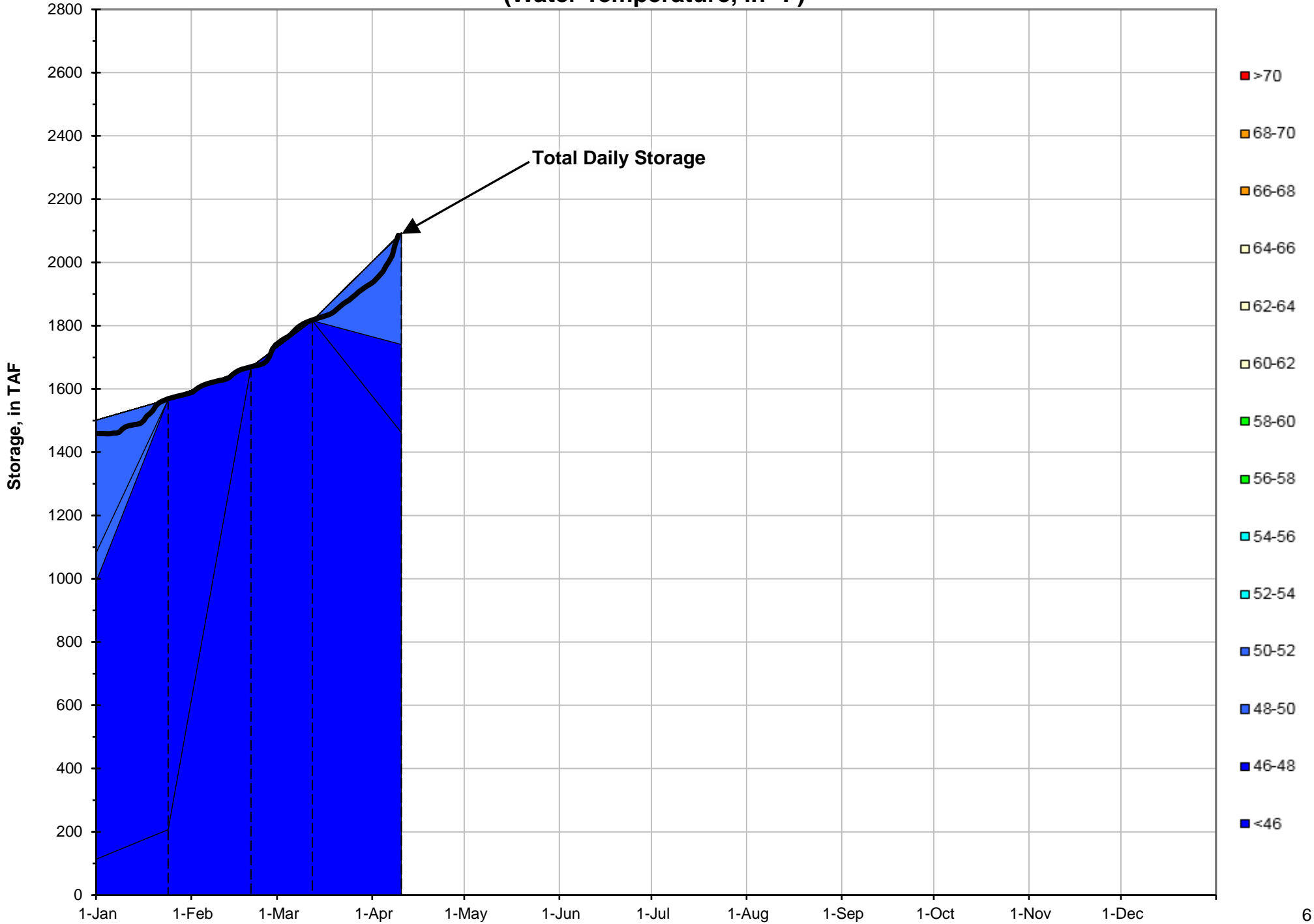
**Daily Maximum**



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



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



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

