

Northern CVP Water Temperature Report

May - 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	- TCD Configuration (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 ¹	SHD	SPP ¹	KWK	SAC	CCR	BSF ²	JLF	BND	RDB	IGO ⁴	LWS	----- ³	Shasta Generation	Spring Creek P.P.	Keswick Total	RDD	BSF	RDB	LWS
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	-
05/01	52.3	50.8	50.0	52.6	53.5	54.2	56.3	57.6	58.2	59.0	52.5	46.6	-	4986	282	5450	60.5	59.0	61.5	-
05/02	52.1	50.8	50.5	52.9	53.6	54.1	56.0	57.5	58.1	58.9	52.9	46.7	-	4636	94	5438	63.5	61.5	62.8	-
05/03	51.9	50.7	50.3	53.0	53.8	54.4	56.6	58.2	58.7	59.4	53.1	47.2	-	5902	84	6233	65.5	62.8	64.6	-
05/04	51.9	51.1	50.3	52.7	53.3	53.9	56.1	57.9	58.6	59.4	53.4	47.2	-	6917	97	7847	68.0	64.6	65.8	-
05/05	52.4	51.6	50.4	52.4	53.1	53.7	55.9	57.7	58.3	59.1	53.6	47.5	-	8218	106	7997	67.5	64.5	64.5	-
05/06	52.1	51.2	49.9	52.7	53.3	53.8	56.0	57.8	58.3	59.1	53.8	47.8	-	7706	253	8014	64.0	62.4	62.1	-
05/07	52.0	51.2	50.2	52.6	53.3	53.9	56.2	58.1	58.7	59.4	54.0	48.0	-	7271	171	7999	67.0	63.9	63.1	-
05/08	51.7 ?	51.2	50.5	52.8 ?	53.5	54.2	56.3	58.3 ?	59.0	59.7	54.1	48.3	-	7323	95	8037	73.0	70.0	70.4	-
05/09	51.2	50.5	50.4	52.4	53.2	53.9	56.4	58.6	59.5	60.2	54.1	48.3	-	7767	104	8028	74.5	71.7	73.1	-
05/10	51.1	50.3	50.5	51.8	52.7	53.3	55.8	58.0	58.8	59.7	54.0	48.3	-	7798	103	7983	75.0	71.0	72.1	-
05/11	51.0	50.3	50.6	51.4	52.3	53.0	55.5	57.7	58.6	59.3	51.8	48.3	-	8192	95	8044	72.0	69.6	70.3	-
05/12	51.0	50.2	50.3	51.5	52.4	53.1	55.4	57.7	58.5	59.3	52.6	48.2	-	7385	147	7999	72.5	69.3	70.1	-
05/13	51.0	50.2	50.2	51.4	52.1	52.7	55.2	57.6	58.6	59.4	53.3	48.3	-	7122	362	7997	71.5	67.3	68.0	-
05/14	50.9	49.8	50.4	51.6	52.2	52.6	54.4	56.4	57.4	58.0	53.0	48.2	-	6302	1182	7718	66.0	63.5	65.7	-
05/15	51.3	50.6	50.2	51.0	51.6	51.8	53.5	55.4	56.3	56.6	52.7	47.7	-	7105	436	8054	61.0	60.0	59.5	-
05/16	51.8	50.9	50.2	50.9	51.3	51.6	52.9	54.2 ?	54.9	55.1	52.9	47.2	-	6292	1114	8219	58.0	55.9	56.6	-
05/17	52.6	51.4	50.5	51.3	51.7	52.0	53.1	54.3 #	-	54.7	52.9	47.2	-	5380	2723	7968	59.0	56.9	57.6	-
05/18	52.0	50.8	50.5	51.5	51.6	51.7	52.6	53.8 #	-	54.5	52.4	47.2	-	5529	1766	7981	53.0	51.5	51.8	-
05/19	52.5	51.9	50.7	52.0	52.7	53.0	53.9	54.4 #	-	53.9	53.9	46.2	-	5979	1178	7972	55.5	53.5	53.4	-
05/20	52.1	51.1	50.8	52.2	52.6	52.9	54.7	55.9 #	-	56.5	53.7	46.3	-	5387	1372	7976	60.0	57.8	57.4	-
05/21	51.7	51.2	51.0	52.5	53.0	53.2	54.2	55.4 #	-	56.3	53.7	46.8	-	7326	270	7974	56.0	56.5	56.4	-
05/22	51.3	50.6	51.2	52.1	52.9	53.5	55.0	56.0 #	-	56.4	54.6	47.0	-	6036	911	7765	64.0	61.4	62.9	-
05/23	51.7	50.8	51.3	52.0	52.8	53.5	55.5	57.1 !	-	58.0	55.8	47.5	-	6710	940	7976	71.0	68.6	70.5	-
05/24	50.7	49.9	51.2	52.1	52.9	53.6	55.9	57.8	58.4	58.9	55.7	47.9	-	6547	666	7980	66.5	65.9	67.3	-
05/25	50.4	49.8	51.3	51.8	52.8	53.5	56.0	58.0	58.7	59.4	55.6	48.3	-	7884	366	7985	66.0	64.2	66.9	-
05/26	50.2	49.4	51.3	50.9	51.7	52.1	55.1	56.8	57.6	58.2	55.1	47.8	-	6870	227	8083	57.5	55.5	55.3	-
05/27	50.5	49.8	51.6	50.6	51.5	51.9	54.7	56.3	56.9	57.5	55.5	48.1	-	7485	506	8000	64.0	61.0	60.7	-
05/28	50.4	49.7	51.6	50.8	51.7	52.3	54.9	56.9	57.5	58.2	56.5	48.1	-	6744	354	7948	71.0	68.8	70.0	-
05/29	50.6	49.9	52.1	51.2	52.0	52.8	55.6	57.9 ?	58.6	59.4	57.4	48.5	-	7637	830	7854	76.5	72.1	72.3	-
05/30	51.0	50.4	51.8	51.2	51.7	52.0	54.6	57.1 !	-	59.5	57.1 ?	49.0	-	10388	2428	12774	72.0	68.0	68.8	-
05/31	50.7	50.2	51.9	51.5	52.0	52.4	54.4	56.2	56.6	57.3	57.9	48.0	-	8754	3402	12998	75.0	72.1	73.4	-
May	51.4	50.6	50.8	51.8	52.5	53.1	55.1	56.9	58.0	58.1	54.2	47.7	-	6954	731	8074	66.0	63.6	64.4	-

Total CFS	215578	22664	250291
Total AF	427590	44953	496442

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 control point (see page 3 for more details)
- 3 Column not used this month
- 4 IGO thermistor insulated by sand as evident by hourly data from 05/01 - 05/25.
Daily averages from nearby US Fish & Wildlife temperature logger are being reported.

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
05/01	49	74	61.5	43	78	60.5	50	81	65.5	53	85	69.0	55	86	70.5	56	79	67.5	55	81	68.0	56	86	71.0	59	87	73.0	58	90	74.0	57	85	71.0	57	84	70.5
05/02	43	78	60.5	45	81	63.0	53	83	68.0	54	84	69.0	56	82	69.0	55	80	67.5	54	87	70.5	59	89	74.0	60	88	74.0	57	90	73.5	58	89	73.5	59	89	74.0
05/03	45	82	63.5	48	83	65.5	51	85	68.0	54	84	69.0	54	80	67.0	56	87	71.5	58	89	73.5	60	90	75.0	60	87	73.5	59	89	74.0	57	88	72.5	59	86	72.5
05/04	47	84	65.5	50	86	68.0	55	85	70.0	54	81	67.5	56	87	71.5	58	90	74.0	61	91	76.0	59	91	75.0	58	86	72.0	56	83	69.5	58	82	70.0	58	85	71.5
05/05	50	86	68.0	51	83	67.0	55	79	67.0	56	84	70.0	57	89	73.0	60	90	75.0	59	93	76.0	59	91	75.0	61	90	75.5	59	89	74.0	57	83	70.0	54	84	69.0
05/06	50	85	67.5	51	81	66.0	55	85	70.0	57	91	74.0	60	91	75.5	59	93	76.0	58	93	75.5	60	91	75.5	61	87	74.0	57	85	71.0	55	80	67.5	54	83	68.5
05/07	50	78	64.0	53	85	69.0	56	91	73.5	62	90	76.0	59	92	75.5	58	93	75.5	58	91	74.5	59	89	74.0	59	90	74.5	58	90	74.0	59	89	74.0	57	85	71.0
05/08	52	82	67.0	56	90	73.0	62	90	76.0	60	91	75.5	57	91	74.0	59	90	74.5	59	88	73.5	58	84	71.0	54	75	64.5	53	72	62.5	53	76	64.5	55	81	68.0
05/09	53	93	73.0	57	90	73.5	59	91	75.0	56	90	73.0	59	89	74.0	59	88	73.5	57	83	70.0	55	80	67.5	50	75	62.5	50	73	61.5	51	81	66.0	54	80	67.0
05/10	57	92	74.5	57	92	74.5	57	91	74.0	59	90	74.5	58	88	73.0	57	85	71.0	56	80	68.0	55	76	65.5	54	82	68.0	54	83	68.5	54	85	69.5	56	84	70.0
05/11	57	93	75.0	55	91	73.0	58	90	74.0	58	88	73.0	57	85	71.0	56	78	67.0	54	73	63.5	52	77	64.5	53	82	67.5	53	81	67.0	54	79	66.5	54	83	68.5
05/12	55	89	72.0	57	88	72.5	57	87	72.0	56	79	67.5	56	72	64.0	53	69	61.0	50	73	61.5	50	75	62.5	52	72	62.0	51	76	63.5	53	77	65.0	53	83	68.0
05/13	57	88	72.5	62	84	73.0	56	76	66.0	55	69	62.0	52	67	59.5	50	70	60.0	48	70	59.0	48	72	60.0	48	74	61.0	52	72	62.0	53	76	64.5	54	81	67.5
05/14	61	82	71.5	61	76	68.5	55	67	61.0	52	63	57.5	47	68	57.5	49	64	56.5	47	67	57.0	46	68	57.0	50	79	64.5	59	80	69.5	55	83	69.0	60	89	74.5
05/15	57	75	66.0	61	65	63.0	51	63	57.0	48	70	59.0	50	62	56.0	48	67	57.5	44	69	56.5	47	73	60.0	49	78	63.5	57	83	70.0	58	86	72.0	61	90	75.5
05/16	57	65	61.0	53	59	56.0	47	67	57.0	50	60	55.0	48	66	57.0	46	70	58.0	48	71	59.5	46	73	59.5	49	75	62.0	53	80	66.5	55	82	68.5	56	86	71.0
05/17	52	64	58.0	51	67	59.0	50	59	54.5	46	60	53.0	44	63	53.5	48	69	58.5	47	77	62.0	51	78	64.5	61	91	76.0	59	85	72.0	57	87	72.0	59	90	74.5
05/18	51	67	59.0	50	59	54.5	46	63	54.5	44	68	56.0	46	67	56.5	47	75	61.0	52	79	65.5	53	82	67.5	59	89	74.0	59	90	74.5	60	91	75.5	62	91	76.5
05/19	49	57	53.0	48	63	55.5	44	69	56.5	47	65	56.0	45	75	60.0	50	77	63.5	52	79	65.5	54	78	66.0	57	83	70.0	57	85	71.0	59	87	73.0	61	89	75.0
05/20	48	63	55.5	51	68	59.5	48	63	55.5	46	76	61.0	52	78	65.0	53	78	65.5	54	76	65.0	54	79	66.5	57	83	70.0	59	83	71.0	57	81	69.0	58	85	71.5
05/21	51	69	60.0	51	63	57.0	46	77	61.5	53	80	66.5	53	80	66.5	54	74	64.0	52	74	63.0	54	77	65.5	58	88	73.0	61	89	75.0	61	88	74.5	62	90	76.0
05/22	51	61	56.0	47	78	62.5	55	83	69.0	55	78	66.5	55	72	63.5	52	73	62.5	54	76	65.0	55	83	69.0	61	91	76.0	61	91	76.0	61	93	77.0	63	93	78.0
05/23	47	81	64.0	61	83	72.0	56	80	68.0	55	75	65.0	54	69	61.5	52	75	63.5	55	84	69.5	57	87	72.0	61	91	76.0	62	92	77.0	62	91	76.5	60	90	75.0
05/24	59	83	71.0	55	80	67.5	54	77	65.5	53	68	60.5	51	72	61.5	54	83	68.5	57	87	72.0	59	87	73.0	63	92	77.5	62	92	77.0	63	92	77.5	61	91	76.0
05/25	54	79	66.5	53	79	66.0	51	69	60.0	50	76	63.0	54	85	69.5	57	84	70.5	58	85	71.5	60	87	73.5	64	93	78.5	63	91	77.0	63	90	76.5	61	93	77.0
05/26	53	79	66.0	50	69	59.5	51	76	63.5	54	86	70.0	58	87	72.5	59	84	71.5	59	87	73.0	60	88	74.0	62	89	75.5	59	84	71.5	57	88	72.5	62	91	76.5
05/27	49	66	57.5	56	74	65.0	53	86	69.5	59	87	73.0	59	86	72.5	60	90	75.0	61	94	77.5	63	92	77.5	65	95	80.0	64	99	81.5	65	98	81.5	65	97	81.0
05/28	56	72	64.0	55	84	69.5	61	87	74.0	59	85	72.0	60	89	74.5	62	91	76.5	64	93	78.5	65	95	80.0	68	102	85.0	68	100	84.0	66	94	80.0	63	93	78.0
05/29	54	88	71.0	61	88	74.5	61	86	73.5	60	91	75.5	64	94	79.0	64	93	78.5	65	96	80.5	65	98	81.5	66	99	82.5	64	98	81.0	63	93	78.0	61	92	76.5
05/30	61	92	76.5	58	86	72.0	59	91	75.0	63	94	78.5	64	93	78.5	65	96	80.5	65	98	81.5	66	95	80.5	66	95	80.5	63	92	77.5	62	90	76.0	62	92	77.0
05/31	58	86	72.0	58	90	74.0	64	94	79.0	64	92	78.0	64	95	79.5	65	98	81.5	66	95	80.5	63	88	75.5	65	95	80.0	64	95	79.5	64	94	79.0	65	94	79.5

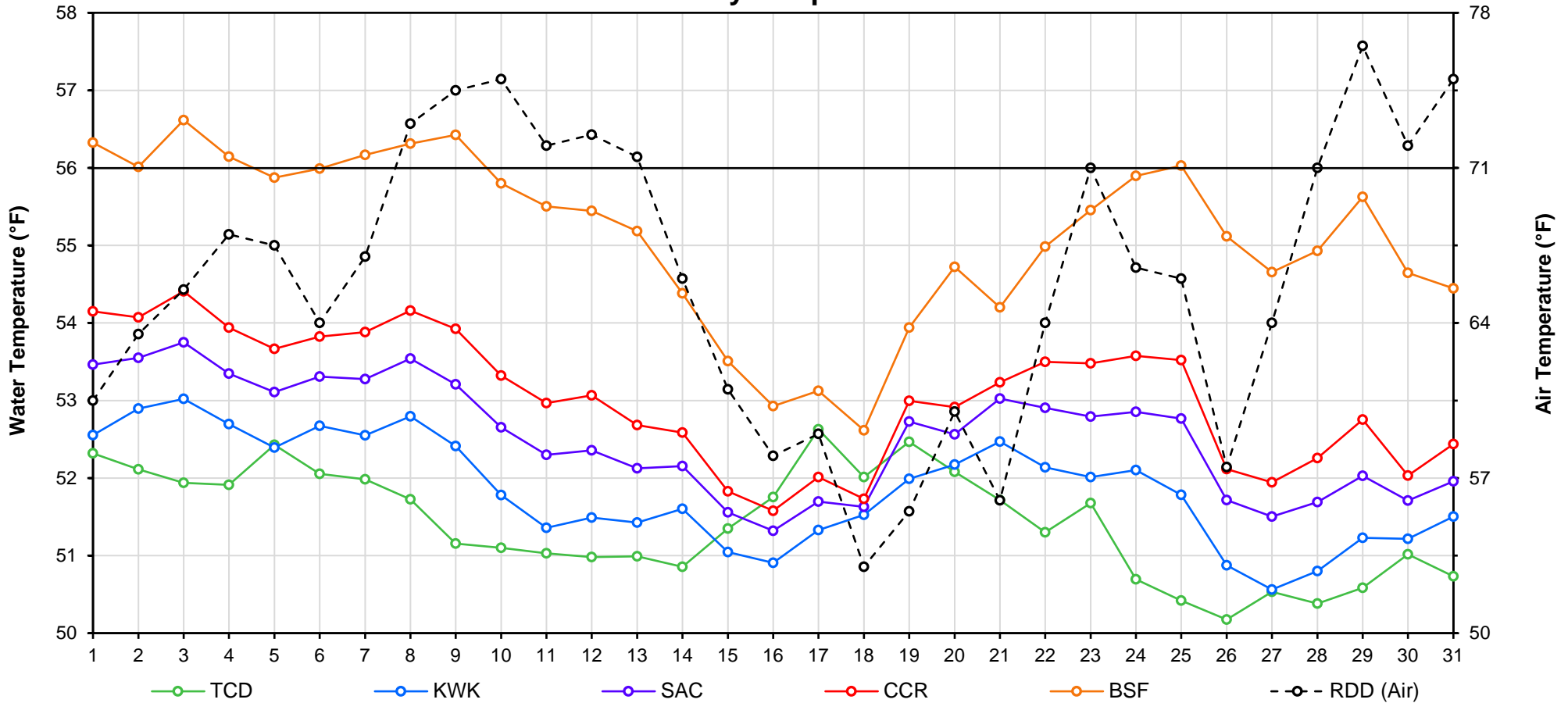
Web Links

- [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 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 ²	Trinity River	19 miles downstream of Lewiston Dam	Click Here
NFH ³	Trinity River	38 miles downstream of Lewiston Dam	Click Here

Temperature Control Point		
Point	Temp. (°F)	Begin Date
BSF	56.0	5/15/2019

Notes

¹ Distances are approximate

² DGC is only reported in September

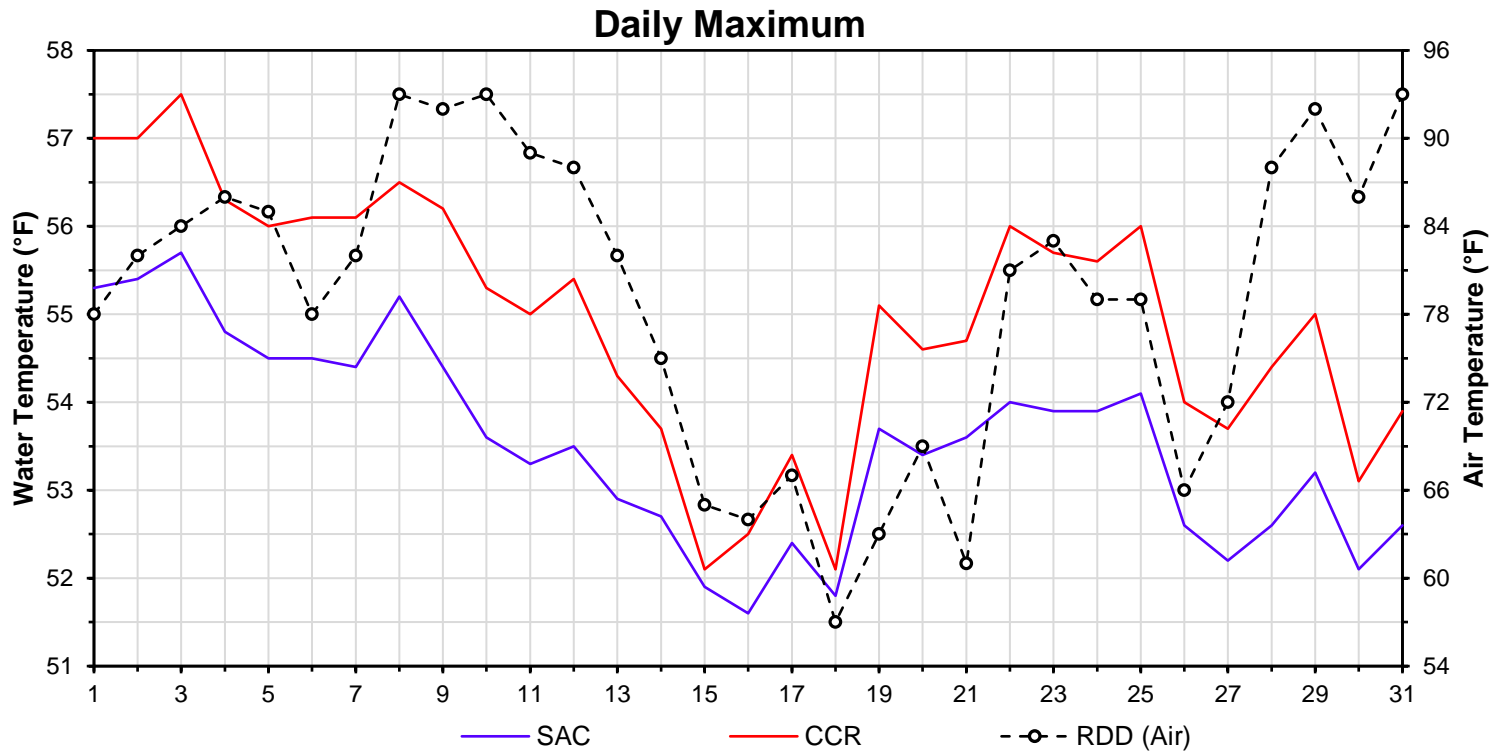
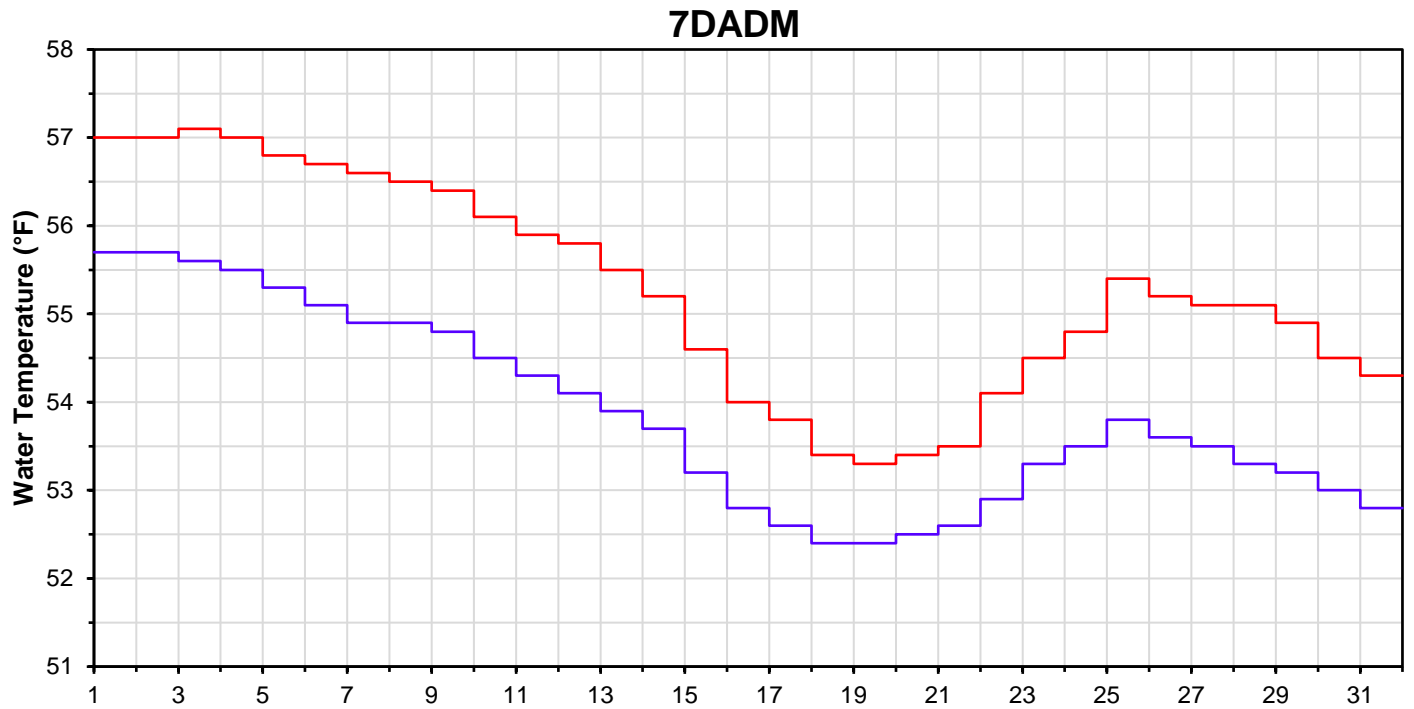
³ NFH is only reported in October, November and December

DATE	Daily Max		7DADM ¹		DAT ²
	SAC	CCR	SAC	CCR	BSF
05/01	55.3	57.0	55.7	57.0	56.3
05/02	55.4	57.0	55.7	57.0	56.0
05/03	55.7	57.5	55.6	57.1	56.6
05/04	54.8	56.3	55.5	57.0	56.1
05/05	54.5	56.0	55.3	56.8	55.9
05/06	54.5	56.1	55.1	56.7	56.0
05/07	54.4	56.1	54.9	56.6	56.2
05/08	55.2	56.5	54.9	56.5	56.3
05/09	54.4	56.2	54.8	56.4	56.4
05/10	53.6	55.3	54.5	56.1	55.8
05/11	53.3	55.0	54.3	55.9	55.5
05/12	53.5	55.4	54.1	55.8	55.4
05/13	52.9	54.3	53.9	55.5	55.2
05/14	52.7	53.7	53.7	55.2	54.4
05/15	51.9	52.1	53.2	54.6	53.5
05/16	51.6	52.5	52.8	54.0	52.9
05/17	52.4	53.4	52.6	53.8	53.1
05/18	51.8	52.1	52.4	53.4	52.6
05/19	53.7	55.1	52.4	53.3	53.9
05/20	53.4	54.6	52.5	53.4	54.7
05/21	53.6	54.7	52.6	53.5	54.2
05/22	54.0	56.0	52.9	54.1	55.0
05/23	53.9	55.7	53.3	54.5	55.5
05/24	53.9	55.6	53.5	54.8	55.9
05/25	54.1	56.0	53.8	55.4	56.0
05/26	52.6	54.0	53.6	55.2	55.1
05/27	52.2	53.7	53.5	55.1	54.7
05/28	52.6	54.4	53.3	55.1	54.9
05/29	53.2	55.0	53.2	54.9	55.6
05/30	52.1	53.1	53.0	54.5	54.6
05/31	52.6	53.9	52.8	54.3	54.4

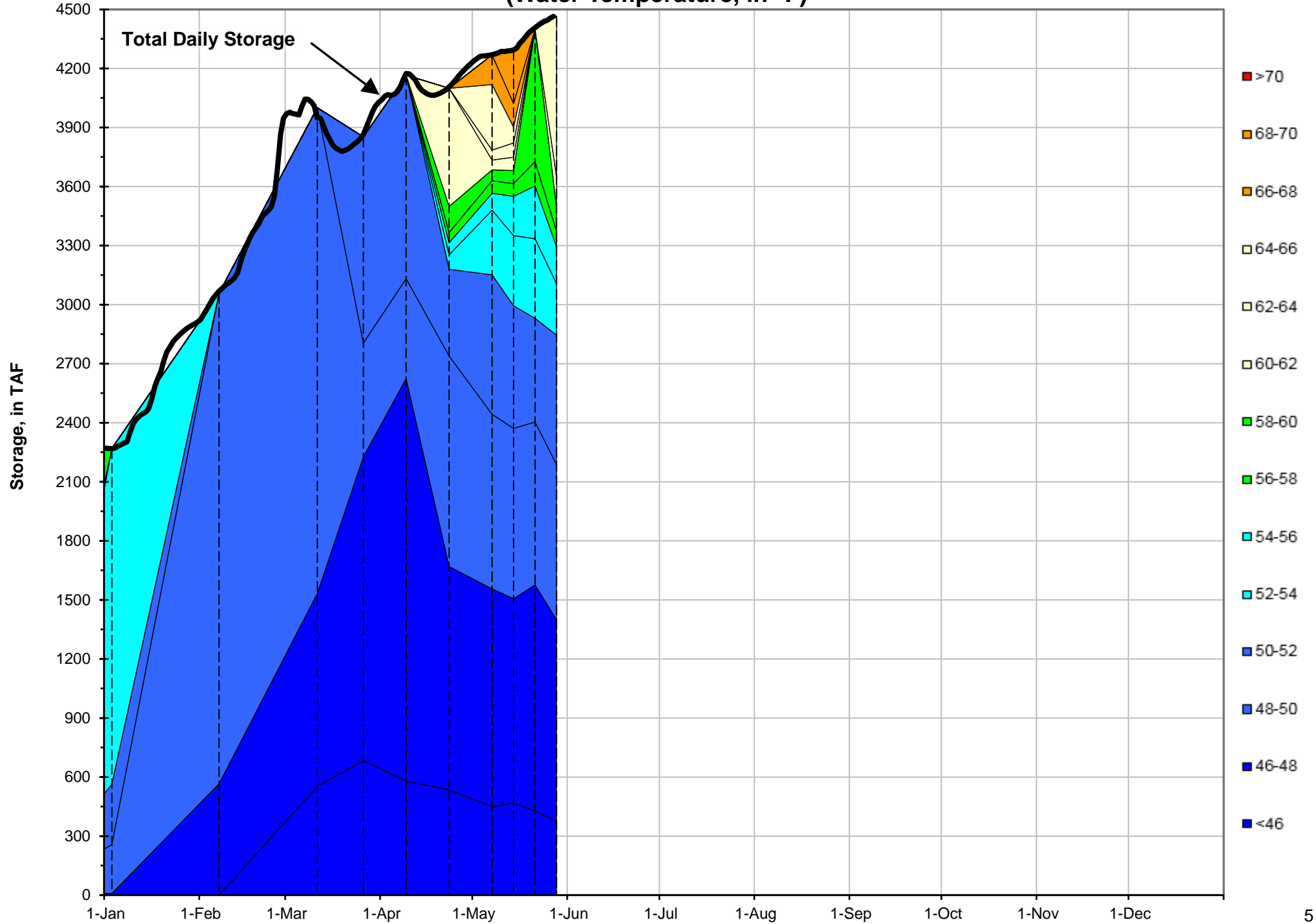
Notes

¹ 7DADM = 7-Day Average
Daily Maximum

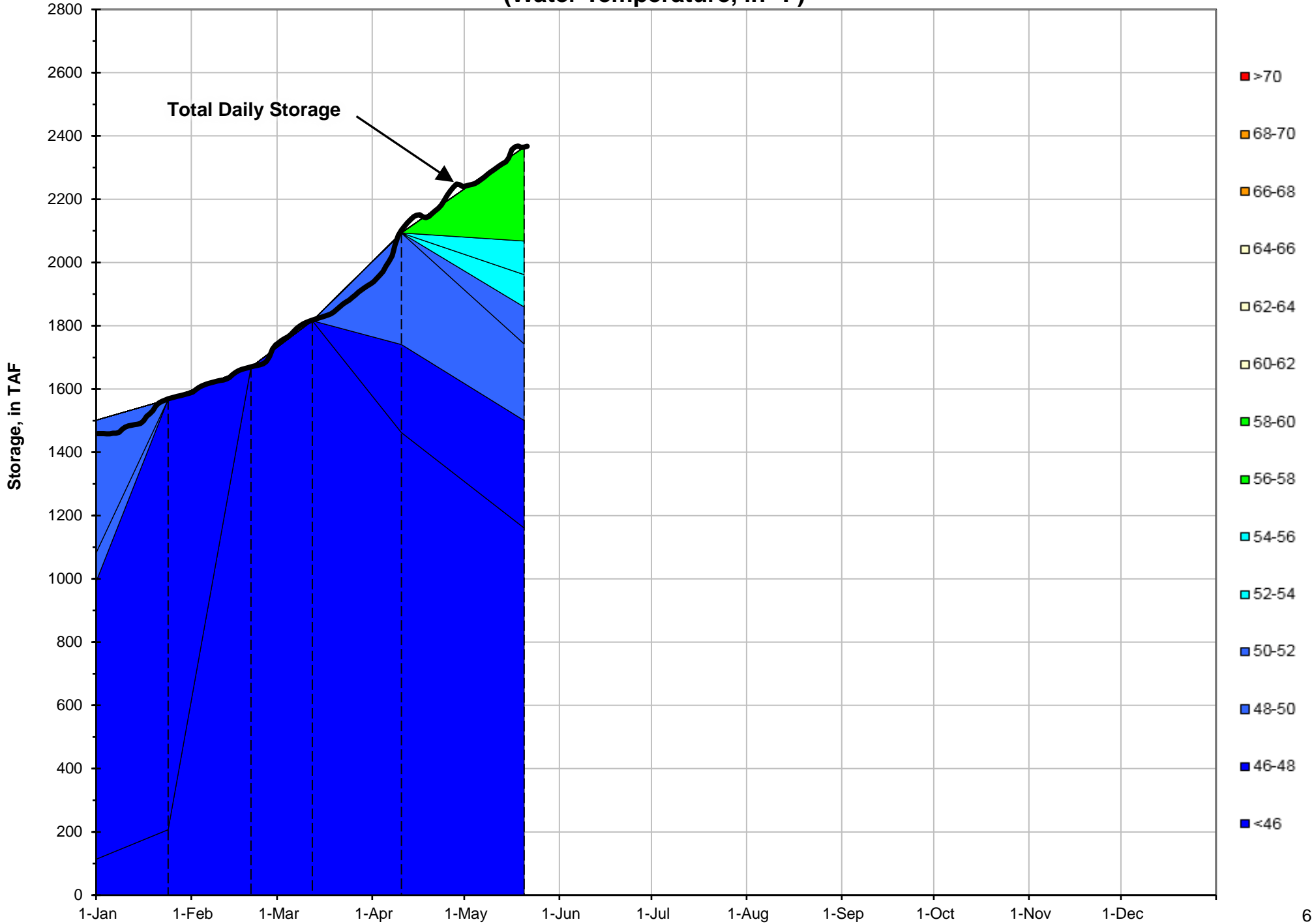
² DAT = Daily Average
Temperature



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



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



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

