

Northern CVP Water Temperature Report

September - 2018

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	LWS	DGC ³	Shasta Generation	Spring Creek P.P.	Keswick Total	RDD	BSF	RDB	LWS
Aug	52.0	51.2	56.7	52.4	52.9	53.4	54.9	55.9	56.3	57.6	57.4	52.9	-	9842	-	10191	79.7	74.2	74.3	71.3
09/01	51.0	50.2	# -	51.2	51.8	52.3	54.2	55.4	56.2	57.9	59.1	52.9	56.4	8625	-	8684	79.0	73.0	77.2	68.4
09/02	51.2	50.3	# -	51.1	51.7	52.3	53.8	54.9	55.6	56.9	59.1	52.8	56.4	8874	-	8687	82.0	75.5	75.7	71.7
09/03	51.3	50.3	# -	51.3	51.8	52.3	53.9	55.0	55.6	56.9	59.1	52.6	56.0	8099	-	8634	82.0	75.6	76.1	72.0
09/04	51.4	50.5	# - ?	51.3	52.1	52.6	54.2	55.3	55.9	57.0	59.3	52.5	56.1	8837	-	8633	81.5	75.2	75.2	72.1
09/05	51.2	50.3	# - ?	51.8	52.5	53.0	54.6	55.6	56.2	57.4	59.5	52.5	56.3	7628	-	8412	80.5	73.9	74.9	72.2
09/06	51.4	50.4	! -	51.7	52.4	52.9	54.6	55.7	56.3	57.6	59.2	52.7	56.1	7682	-	8198	76.0	71.1	70.8	69.8
09/07	51.4	50.5	56.5	51.6	52.2	52.7	54.3	55.4	56.1	57.3	58.7	52.5	55.6	8004	345	8218	81.0	73.0	75.4	68.2
09/08	51.6	50.6	56.5	51.5	52.1	52.6	54.0	55.0	55.7	56.9	59.0	52.0	55.3	8039	350	8223	78.0	71.9	74.0	66.2
09/09	51.5	50.7	56.8	51.6	52.1	52.6	54.0	55.0	55.6	56.6	58.7	52.2	55.1	8072	14	8234	77.0	71.2	73.9	65.8
09/10	51.7	51.0	56.3	51.4	52.0	52.6	53.9	54.8	55.3	56.4	58.7	52.3	55.2	8383	14	8301	77.0	71.2	73.2	66.3
09/11	51.7	50.8	56.4	51.6	52.1	52.6	53.8	54.6	55.1	56.0	58.4	52.2	55.0	7870	14	8286	72.0	68.2	72.3	63.2
09/12	51.9	51.0	56.4	51.5	52.0	52.5	53.9	54.7	55.2	55.9	58.2	51.9	54.1	7834	14	8379	67.5	64.7	67.3	58.9
09/13	52.3	51.0	56.5	51.7	52.3	52.8	54.1	55.0	55.4	56.3	58.0	51.7	54.2	7535	14	8371	67.5	64.1	64.6	58.3
09/14	52.1	51.2	56.4	52.0	52.6	53.0	54.1	55.2	55.4	56.4	55.8	51.4	54.2	7879	14	8362	67.5	62.4	65.0	59.1
09/15	52.1	51.1	56.5	52.0	52.6	53.1	54.3	55.4	55.6	56.5	55.6	51.1	53.6	7468	14	8367	67.5	62.8	63.7	57.3
09/16	52.2	51.4	56.5	51.9	52.5	53.0	54.1	55.2	55.3	56.4	55.6	51.1	53.5	7663	14	8366	66.0	60.6	62.5	58.3
09/17	52.1	51.4	? 56.6	52.0	52.5	53.0	54.0	55.0	55.1	56.1	55.2	50.9	53.5	7421	360	8356	66.0	60.8	64.0	59.0
09/18	52.4	51.6	! -	52.2	52.8	53.3	54.3	55.3	55.3	56.2	55.4	51.1	53.5	7651	641	8372	68.0	62.8	65.6	60.5
09/19	51.8	51.2	57.2	52.5	53.0	53.4	54.5	55.5	55.6	56.6	55.7	51.0	53.7	7361	14	7980	71.0	65.8	69.9	61.7
09/20	51.0	50.4	56.7	52.4	53.3	53.8	55.0	56.0	56.1	56.9	55.9	51.0	53.2	6458	599	7784	82.5	71.3	75.1	60.6
09/21	51.3	50.4	56.8	51.6	52.4	53.0	54.5	55.8	56.1	57.4	55.2	51.9	53.3	6371	514	7714	72.0	66.6	70.0	63.0
09/22	51.7	50.8	56.6	51.6	52.3	52.8	54.1	55.4	55.6	56.9	53.7	51.6	54.5	6733	536	7570	72.0	67.3	69.4	62.8
09/23	51.5	50.7	? 56.7	52.1	52.8	53.3	54.5	55.7	55.8	56.9	54.1	51.9	55.1	6251	574	7563	74.0	68.7	70.0	65.1
09/24	51.4	50.5	56.8	52.2	52.9	53.5	54.5	55.6	55.8	56.8	53.7	51.4	53.8	6053	577	7576	79.5	67.4	72.2	60.5
09/25	51.4	50.4	57.5	52.1	52.9	53.3	54.5	55.7	55.8	56.9	53.8	51.6	53.7	6456	30	7616	80.0	70.0	75.0	62.5
09/26	51.4	50.5	56.8	51.5	52.1	52.7	54.0	55.3	55.6	56.8	53.5	51.1	53.5	6727	16	7564	75.5	67.3	71.6	61.1
09/27	51.7	50.8	56.8	51.5	52.1	52.6	53.6	54.8	54.9	56.1	53.7	51.0	53.5	6849	325	7567	75.5	66.8	70.7	64.4
09/28	51.7	50.8	56.9	51.8	52.5	52.9	53.9	55.0	55.1	56.1	54.0	51.1	53.9	2320	329	7567	72.5	67.5	69.7	64.8
09/29	51.8	50.9	56.8	51.9	52.5	52.9	54.0	55.2	55.4	56.3	53.9	51.3	53.9	6655	383	7569	64.5	62.7	63.7	59.1
09/30	52.0	51.1	57.3	51.9	52.6	53.1	54.3	55.5	55.6	56.6	54.2	51.4	54.0	7078	20	7506	68.5	65.0	66.6	58.5
-																				
Sep	51.6	50.8	56.7	51.8	52.4	52.9	54.2	55.3	55.6	56.7	56.5	51.8	54.5	7296	239	8089	74.1	68.1	70.5	63.7

Total CFS	218876	5725	242659
Total AF	434132	11355	481304

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 DGC is only reported in September

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		
09/01	58	93	75.5	58	98	78.0	60	101	80.5	61	100	80.5	60	100	80.0	59	95	77.0	56	93	74.5	55	92	73.5	60	93	76.5	59	96	77.5	60	94	77.0	61	95	78.0		
09/02	57	101	79.0	60	103	81.5	61	102	81.5	61	99	80.0	62	96	79.0	58	95	76.5	57	94	75.5	56	93	74.5	62	95	78.5	62	100	81.0	63	97	80.0	62	95	78.5		
09/03	59	105	82.0	63	103	83.0	60	100	80.0	59	97	78.0	57	96	76.5	57	95	76.0	56	92	74.0	54	93	73.5	63	100	81.5	64	103	83.5	65	99	82.0	62	96	79.0		
09/04	62	102	82.0	64	100	82.0	58	97	77.5	58	96	77.0	57	98	77.5	59	96	77.5	56	96	76.0	56	97	76.5	63	100	81.5	64	100	82.0	61	93	77.0	57	88	72.5		
09/05	63	100	81.5	62	96	79.0	56	95	75.5	57	99	78.0	59	95	77.0	57	95	76.0	55	95	75.0	52	92	72.0	61	89	75.0	59	87	73.0	58	86	72.0	59	91	75.0		
09/06	62	99	80.5	58	94	76.0	57	98	77.5	57	95	76.0	56	96	76.0	55	95	75.0	55	90	72.5	51	82	66.5	57	82	69.5	56	80	68.0	58	85	71.5	55	89	72.0		
09/07	57	95	76.0	62	99	80.5	57	94	75.5	57	96	76.5	55	94	74.5	53	89	71.0	50	82	66.0	49	82	65.5	56	87	71.5	56	87	71.5	55	87	71.0	57	91	74.0		
09/08	61	101	81.0	59	95	77.0	56	96	76.0	55	93	74.0	52	89	70.5	49	84	66.5	48	85	66.5	49	89	69.0	57	90	73.5	56	90	73.0	55	89	72.0	57	89	73.0		
09/09	59	97	78.0	58	96	77.0	56	93	74.5	54	88	71.0	50	82	66.0	47	81	64.0	47	87	67.0	48	91	69.5	55	91	73.0	55	88	71.5	56	89	72.5	58	92	75.0		
09/10	57	97	77.0	58	94	76.0	53	87	70.0	48	80	64.0	45	80	62.5	46	86	66.0	48	90	69.0	49	87	68.0	56	88	72.0	57	92	74.5	61	92	76.5	59	92	75.5		
09/11	57	97	77.0	54	87	70.5	49	81	65.0	46	78	62.0	44	83	63.5	45	81	63.0	46	85	65.5	47	89	68.0	57	89	73.0	57	91	74.0	58	87	72.5	56	88	72.0		
09/12	53	91	72.0	54	81	67.5	45	78	61.5	45	80	62.5	44	80	62.0	45	84	64.5	48	86	67.0	49	88	68.5	57	87	72.0	56	89	72.5	55	85	70.0	54	87	70.5		
09/13	52	83	67.5	56	79	67.5	44	81	62.5	44	80	62.0	44	83	63.5	47	85	66.0	49	87	68.0	50	89	69.5	58	91	74.5	57	95	76.0	58	90	74.0	56	88	72.0		
09/14	54	81	67.5	53	83	68.0	47	80	63.5	45	82	63.5	48	85	66.5	50	87	68.5	51	86	68.5	51	85	68.0	58	84	71.0	56	89	72.5	57	87	72.0	54	86	70.0		
09/15	51	84	67.5	55	82	68.5	45	83	64.0	48	86	67.0	49	87	68.0	51	89	70.0	52	91	71.5	53	90	71.5	60	89	74.5	58	92	75.0	59	90	74.5	56	90	73.0		
09/16	54	81	67.5	48	83	65.5	48	84	66.0	50	86	68.0	52	89	70.5	50	91	70.5	50	87	68.5	49	85	67.0	56	82	69.0	54	85	69.5	55	87	71.0	55	87	71.0		
09/17	48	84	66.0	47	84	65.5	49	86	67.5	51	90	70.5	53	93	73.0	53	90	71.5	52	87	69.5	48	85	66.5	57	82	69.5	56	83	69.5	55	83	69.0	55	87	71.0		
09/18	47	85	66.0	51	86	68.5	49	90	69.5	52	93	72.5	53	93	73.0	54	88	71.0	51	86	68.5	49	86	67.5	58	89	73.5	57	94	75.5	57	90	73.5	56	89	72.5		
09/19	49	87	68.0	52	90	71.0	53	93	73.0	54	94	74.0	54	92	73.0	53	91	72.0	53	92	72.5	54	93	73.5	59	96	77.5	57	95	76.0	57	89	73.0	56	89	72.5		
09/20	51	91	71.0	68	94	81.0	53	94	73.5	54	92	73.0	53	90	71.5	55	95	75.0	58	97	77.5	57	96	76.5	60	96	78.0	60	90	75.0	58	88	73.0	57	93	75.0		
09/21	68	97	82.5	51	94	72.5	53	89	71.0	54	88	71.0	52	94	73.0	55	97	76.0	56	98	77.0	57	96	76.5	59	92	75.5	57	85	71.0	55	82	68.5	55	87	71.0		
09/22	51	93	72.0	54	90	72.0	52	88	70.0	50	93	71.5	54	98	76.0	55	97	76.0	55	95	75.0	54	92	73.0	57	88	72.5	55	88	71.5	55	84	69.5	52	84	68.0		
09/23	54	90	72.0	59	88	73.5	52	93	72.5	54	98	76.0	56	99	77.5	56	97	76.5	55	93	74.0	53	86	69.5	58	82	70.0	55	87	71.0	56	85	70.5	56	87	71.5		
09/24	57	91	74.0	63	94	78.5	56	98	77.0	58	100	79.0	59	99	79.0	59	92	75.5	51	82	66.5	49	81	65.0	56	80	68.0	56	85	70.5	55	79	67.0	53	85	69.0		
09/25	63	96	79.5	75	98	86.5	55	100	77.5	56	99	77.5	57	93	75.0	51	79	65.0	49	79	64.0	50	82	66.0	59	87	73.0	55	87	71.0	57	86	71.5	56	88	72.0		
09/26	60	100	80.0	52	101	76.5	56	100	78.0	56	93	74.5	51	77	64.0	50	78	64.0	50	76	63.0	50	83	66.5	57	87	72.0	60	92	76.0	59	89	74.0	58	88	73.0		
09/27	51	100	75.5	53	99	76.0	56	93	74.5	52	75	63.5	50	77	63.5	51	77	64.0	50	74	62.0	49	80	64.5	57	83	70.0	57	87	72.0	58	87	72.5	53	86	69.5		
09/28	52	99	75.5	54	92	73.0	50	75	62.5	50	76	63.0	51	74	62.5	52	80	66.0	52	83	67.5	53	87	70.0	60	85	72.5	59	89	74.0	58	88	73.0	55	86	70.5		
09/29	52	93	72.5	57	76	66.5	50	76	63.0	50	76	63.0	52	74	63.0	51	80	65.5	52	85	68.5	53	90	71.5	59	83	71.0	57	84	70.5	56	82	69.0	53	80	66.5		
09/30	56	73	64.5	59	76	67.5	50	77	63.5	52	75	63.5	50	80	65.0	51	78	64.5	48	83	65.5	51	83	67.0	59	82	70.5	58	83	70.5	55	81	68.0	52	80	66.0		
-																																						

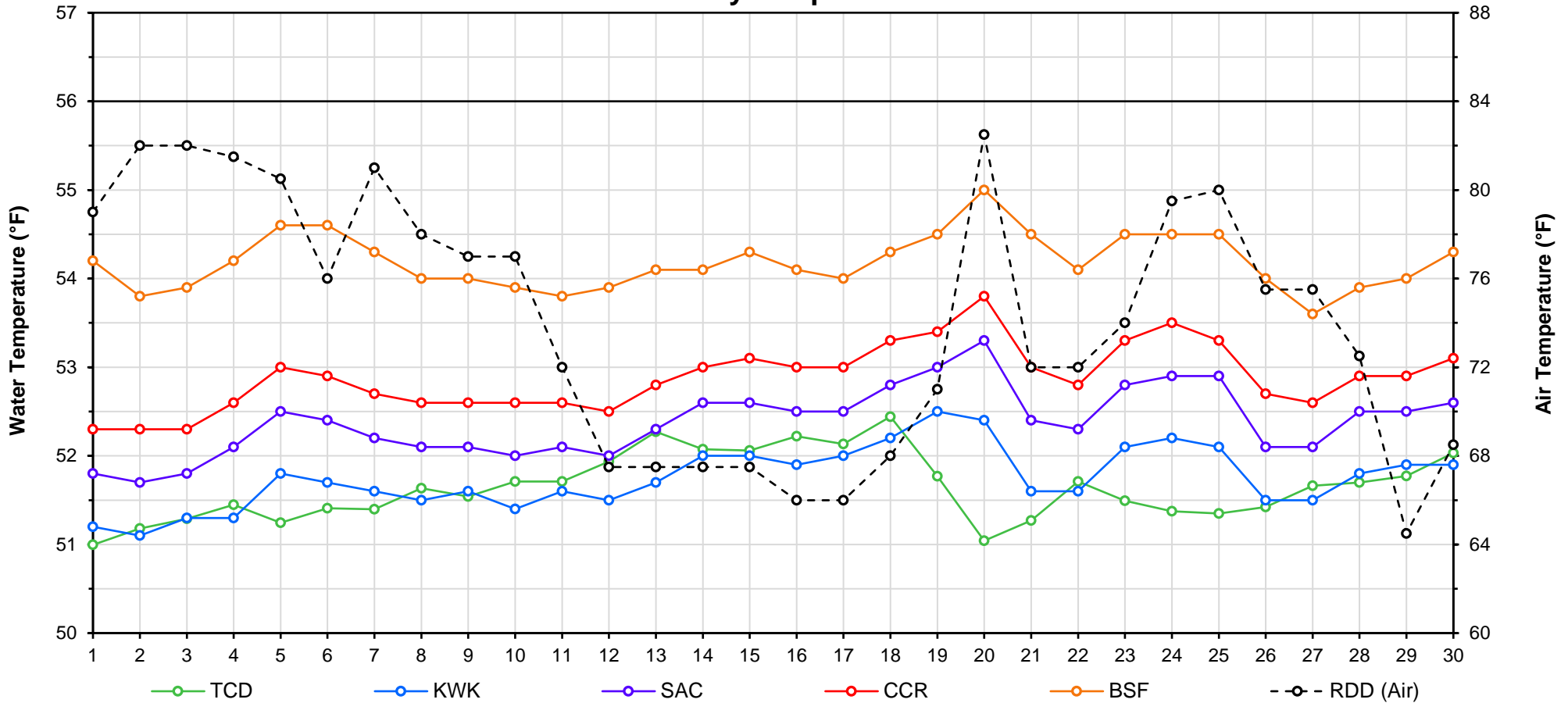
Web Links

- [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	05/25/2018

Notes

¹ Distances are approximate

² DGC is only reported in September

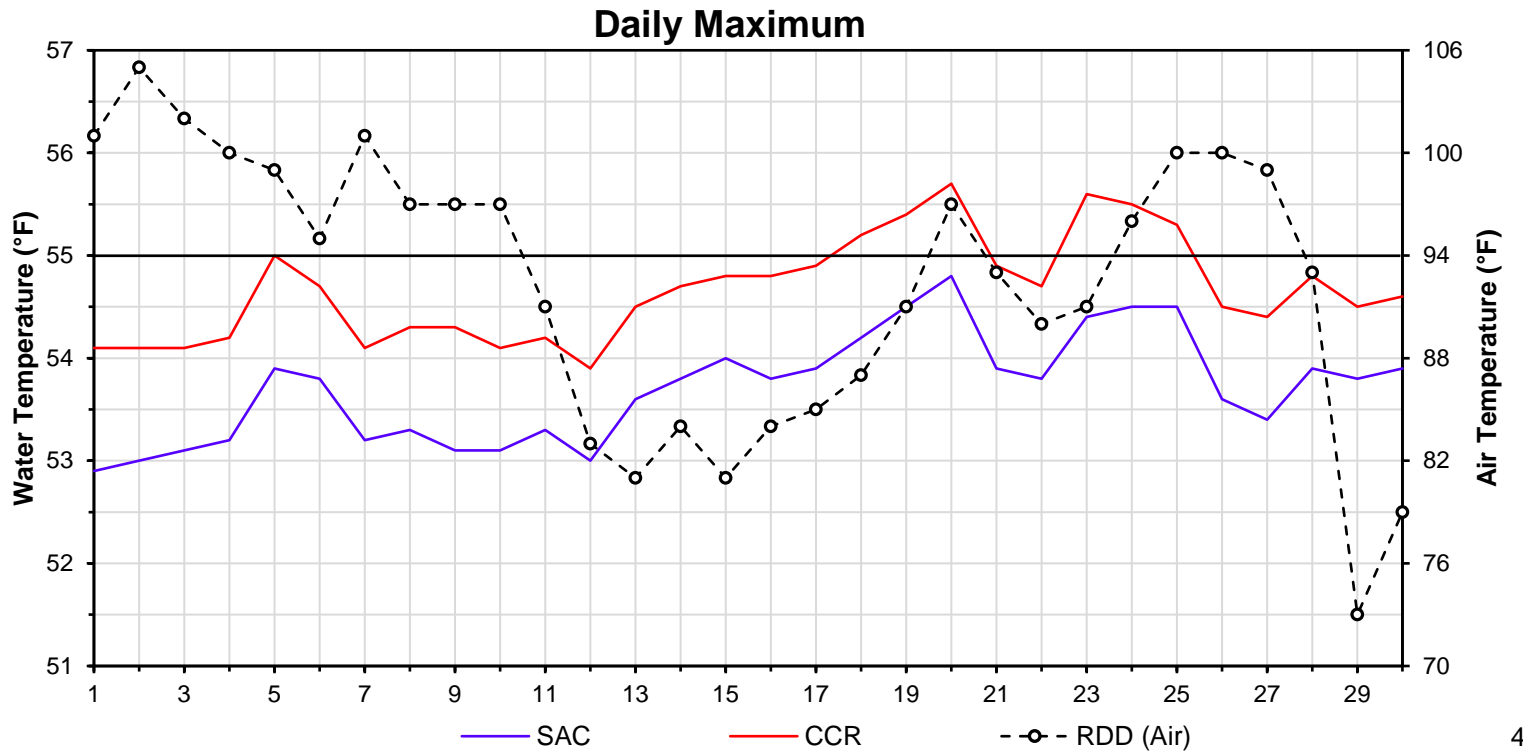
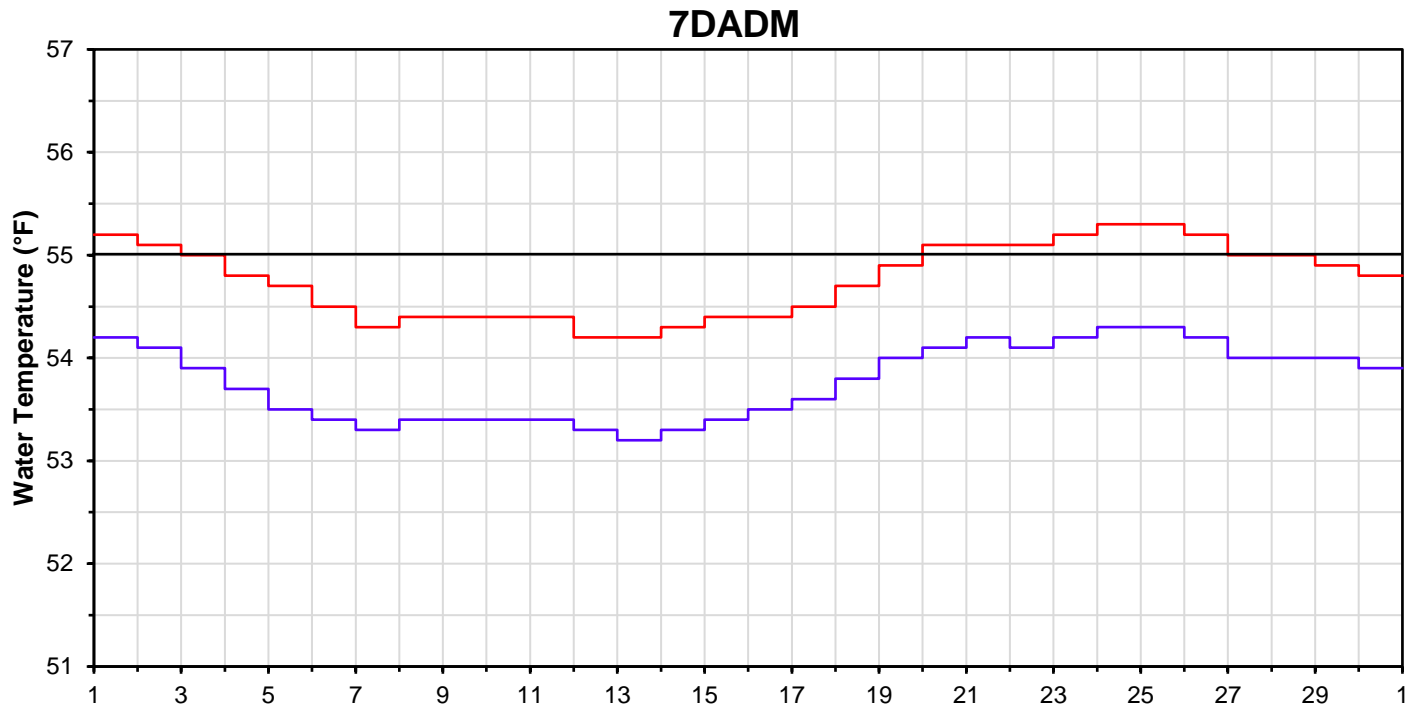
³ NFH is only reported in October, November and December

DATE	Daily Max		7DADM ¹		DAT ²
	SAC	CCR	SAC	CCR	BSF
09/01	52.9	54.1	54.2	55.2	54.2
09/02	53.0	54.1	54.1	55.1	53.8
09/03	53.1	54.1	53.9	55.0	53.9
09/04	53.2	54.2	53.7	54.8	54.2
09/05	53.9	55.0	53.5	54.7	54.6
09/06	53.8	54.7	53.4	54.5	54.6
09/07	53.2	54.1	53.3	54.3	54.3
09/08	53.3	54.3	53.4	54.4	54.0
09/09	53.1	54.3	53.4	54.4	54.0
09/10	53.1	54.1	53.4	54.4	53.9
09/11	53.3	54.2	53.4	54.4	53.8
09/12	53.0	53.9	53.3	54.2	53.9
09/13	53.6	54.5	53.2	54.2	54.1
09/14	53.8	54.7	53.3	54.3	54.1
09/15	54.0	54.8	53.4	54.4	54.3
09/16	53.8	54.8	53.5	54.4	54.1
09/17	53.9	54.9	53.6	54.5	54.0
09/18	54.2	55.2	53.8	54.7	54.3
09/19	54.5	55.4	54.0	54.9	54.5
09/20	54.8	55.7	54.1	55.1	55.0
09/21	53.9	54.9	54.2	55.1	54.5
09/22	53.8	54.7	54.1	55.1	54.1
09/23	54.4	55.6	54.2	55.2	54.5
09/24	54.5	55.5	54.3	55.3	54.5
09/25	54.5	55.3	54.3	55.3	54.5
09/26	53.6	54.5	54.2	55.2	54.0
09/27	53.4	54.4	54.0	55.0	53.6
09/28	53.9	54.8	54.0	55.0	53.9
09/29	53.8	54.5	54.0	54.9	54.0
09/30	53.9	54.6	53.9	54.8	54.3
-					

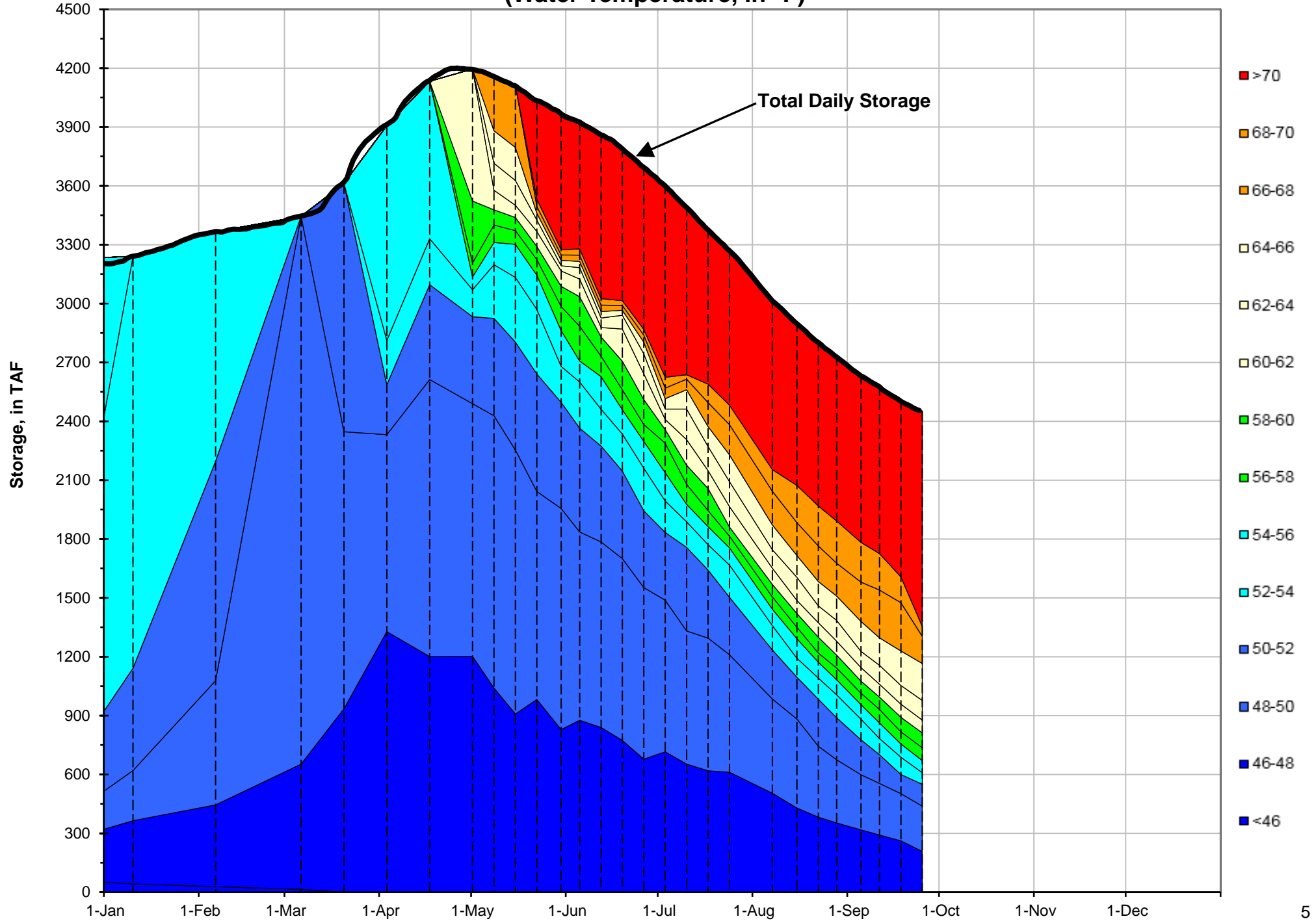
Notes

¹ 7DADM = 7-Day Average
Daily Maximum

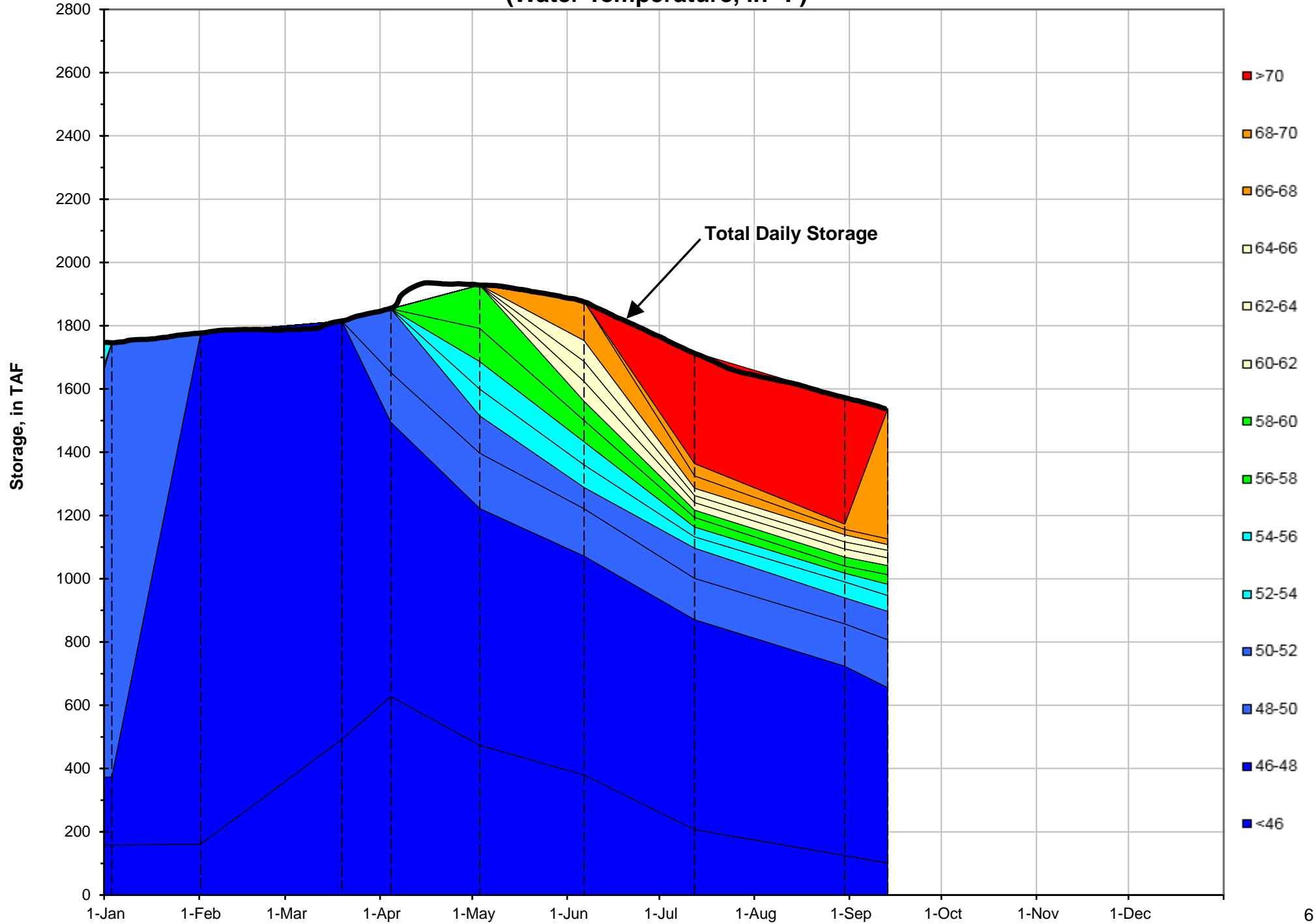
² DAT = Daily Average
Temperature



Shasta Lake Isothermobaths - 2018 (Water Temperature, in °F)



Trinity Lake Isothermobaths - 2018 (Water Temperature, in °F)



Whiskeytown Lake Isothermobaths - 2018 (Water Temperature, in °F)

