

Northern CVP Water Temperature Report

September - 2021

Page	Description
2	- Mean Daily Water Temperature, Release Flow Rates and Air Temperatures with Monthly Averages
3	- Redding 10-Day Forecasted Air Temperatures
4	- Sacramento River Mean Daily Water Temperature, Air Temperature and 10-Day Forecasted Air Temperature Plot - Water Temperature Measuring Station Details - Temperature Control Point Details
5	- Shasta Lake Isothermobaths & Cold Water Pool Statistics
14	- Trinity Lake Isothermobaths & Cold Water Pool Statistics
23	- Whiskeytown Lake Isothermobaths & Cold Water Pool Statistics
x	- TCD Configuration (External Link)



— BUREAU OF —
RECLAMATION

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 ²	CCR	BSF	JLF	BND	RDB	IGO	LWS	DGC ³	NFH	Shasta Generation	Spring Creek P.P.	Keswick Total	RDD	BSF	RDB
Aug	54.1	53.4	-	55.0	55.5	56.2	57.4	58.6	59.5	60.7	57.1	50.4	-	59.5	5889	1760	8088	82.6	76.7	77.9
09/01	55.8	55.5	# -	56.0	56.6	57.3	58.5	59.5	60.5	61.5	56.6	51.0	# -	57.8	4786	1022	6826	75.0	69.5	70.3
09/02	56.0	55.6	# -	56.2	56.7	57.5	58.6	59.5	60.3	61.3	56.5	51.2	# -	59.3	5123	889	6824	72.0	67.4	68.6
09/03	55.9	55.5	# -	56.2	56.7	57.4	58.4	59.3	60.1	61.1	56.2	51.4	# -	58.0	5609	949	6823	74.0	68.9	69.5
09/04	56.0	55.6	# -	56.2	56.9	57.6	58.7	59.5	60.2	61.1	56.4	51.6	# -	56.4	5348	1093	6805	76.0	70.9	74.5
09/05	56.0	55.7	# -	56.3	56.9	57.7	58.7	59.6	60.4	61.4	56.5	51.9	# -	55.0	5686	1036	6798	78.0	71.1	74.7
09/06	55.9	55.6	# -	56.3	56.9	57.7	58.8	59.7	60.5	61.5	56.7	51.3	# -	54.1	5683	1034	6801	80.5	72.9	77.7
09/07	56.2	56.0	# -	56.4	57.1	58.0	59.2	60.2	61.0	61.9	57.3	50.7	# -	54.4	5635	1062	6860	85.0	77.5	83.4
09/08	56.3	55.8	# -	56.5	57.0	57.8	59.2	60.4	61.4	62.5	57.1	51.0	# -	54.9	5733	1208	6862	87.0	78.5	83.5
09/09	56.8	56.5	# -	56.4	56.9	57.5	58.7	59.7	60.6	61.8	57.0	51.0	# -	55.5	5058	1080	6821	83.5	77.2	80.1
09/10	56.4	56.4	# -	56.5	57.3	58.1	59.6	60.6	61.4	62.3	58.3	50.6	# -	56.8	5186	1087	6833	79.5	76.7	77.8
09/11	56.1	56.0	# -	56.8	57.5	58.2	59.7	60.8	61.7	63.0	57.7	50.8	# -	58.6	5311	1072	6824	80.5	74.6	76.1
09/12	56.8	57.0	# -	56.6	57.2	57.9	59.3	60.4	61.2	62.4	57.5	51.0	# -	59.0	4718	1786	6824	78.0	71.5	74.3
09/13	57.2	57.4	# -	56.7	57.3	57.9	59.2	60.1	60.9	61.9	57.6	51.1	# -	58.6	4632	1803	6818	81.0	73.8	76.9
09/14	57.4	58.2	# -	56.9	57.5	58.1	59.3	60.2	61.0	61.9	57.7	50.9	# -	58.6	4821	1795	6817	83.0	74.9	78.0
09/15	57.5	58.2	# -	57.1	57.7	58.3	59.5	60.5	61.3	62.2	57.5	51.0	# -	58.4	4925	1668	6824	79.5	72.9	74.8
09/16	58.3	57.8	# -	57.1	57.7	58.4	59.6	60.4	61.1	62.1	57.3	51.1	# -	58.9	4605	1688	6820	76.0	70.5	71.2
09/17	58.3	57.4	# -	57.1	57.6	58.2	59.3	60.2	61.0	61.9	56.9	51.5	# -	59.1	4614	1697	6821	73.0	68.9	71.2
09/18	58.0	56.9	# -	57.3	57.5	57.6	58.5	59.2	60.0	60.8	56.0	51.2	# -	57.8	5157	1733	6822	66.0	61.9	64.0
09/19	58.1	57.1	# -	57.0	57.6	58.2	59.1	59.5	60.0	60.2	56.8	51.2	# -	57.7	5204	1680	6843	69.0	66.2	69.1
09/20	58.9	57.9	# -	57.2	57.7	58.1	59.0	59.6	60.3	61.0	56.5	51.5	# -	58.2	4561	1712	6830	79.5	74.3	76.6
09/21	58.9	58.1	# -	57.4	57.9	58.4	59.4	60.0	60.6	61.2	56.6	51.8	!	58.4	4743	1861	6852	75.5	69.5	73.2
09/22	59.7	58.9	# -	57.7	58.1	58.7	59.6	60.3	61.0	61.7	56.2	51.5	55.4	58.9	4151	2090	6845	76.5	69.9	74.0
09/23	59.6	58.3	# -	58.0	58.3	58.8	59.9	60.6	61.2	61.9	55.9	51.4	55.0	59.0	4574	1729	6808	86.0	73.4	79.3
09/24	59.4	58.2	# -	57.9	58.3	58.9	60.0	60.6	61.4	62.2	56.3	51.2	55.2	58.9	4933	1845	6799	79.5	73.0	77.8
09/25	60.2	58.8	# -	58.0	58.5	59.0	59.9	60.6	61.3	62.2	56.2	51.6	55.3	59.4	4345	1755	6799	74.5	69.1	73.0
09/26	60.6	59.9	# -	58.1	58.6	59.0	59.9	60.6	61.2	62.0	56.0	51.7	55.2	59.0	4002	1750	6835	70.5	65.5	68.5
09/27	60.4	58.8	# -	58.4	58.5	58.7	59.5	60.1	60.8	61.4	55.5	51.8	53.7	57.0	4537	1765	6842	64.0	61.9	63.9
09/28	60.3	59.1	# -	58.1	58.5	58.7	59.3	59.5	60.0	60.3	55.4	51.7	52.8	55.7	5024	1669	6928	63.5	61.3	64.3
09/29	60.5	59.6	# -	58.1	58.5	58.8	59.3	59.6	60.0	60.3	55.7	51.5	53.5	56.2	4980	1772	6964	73.5	65.8	69.7
09/30	? 61.1	? 59.9	# -	? 58.3	? 58.7	? 59.1	? 59.6	? 60.0	? 60.4	? 60.7	? 55.9	? 51.2	53.5	? 56.6	4353	1733	6895	73.0	65.7	70.8
-																				
Sep	58.0	57.4	-	57.1	57.6	58.2	59.2	60.0	60.8	61.6	56.7	51.3	54.4	57.5	4935	1502	6835	76.4	70.5	73.6
															Total CFS	148037	45063	205063		
															Total AF	293625	89381	406734		

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)
- ³ Data is currently being collected locally and periodically downloaded.
Once downloaded and certified by USGS, missing data will be added.

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	62	98	80.0	60	89	74.5	53	90	71.5	56	95	75.5	58	96	77.0	60	100	80.0	61	100	80.5	64	99	81.5	68	100	84.0	62	90	76.0	61	90	75.5	58	89	73.5		
09/02	60	90	75.0	56	92	74.0	57	97	77.0	57	99	78.0	61	102	81.5	64	103	83.5	67	98	82.5	63	97	80.0	64	99	81.5	63	93	78.0	60	90	75.0	59	90	74.5		
09/03	55	89	72.0	55	95	75.0	57	99	78.0	58	103	80.5	60	105	82.5	69	99	84.0	64	98	81.0	61	97	79.0	64	95	79.5	61	85	73.0	60	87	73.5	57	90	73.5		
09/04	54	94	74.0	54	99	76.5	57	103	80.0	60	105	82.5	62	98	80.0	61	96	78.5	59	93	76.0	58	92	75.0	64	92	78.0	61	94	77.5	61	92	76.5	60	93	76.5		
09/05	53	99	76.0	56	101	78.5	59	103	81.0	62	102	82.0	63	98	80.5	62	92	77.0	61	86	73.5	57	88	72.5	68	100	84.0	63	99	81.0	60	93	76.5	59	91	75.0		
09/06	55	101	78.0	58	102	80.0	61	104	82.5	66	104	85.0	66	103	84.5	64	97	80.5	61	94	77.5	58	90	74.0	62	94	78.0	63	93	78.0	62	88	75.0	59	92	75.5		
09/07	57	104	80.5	63	106	84.5	67	105	86.0	67	103	85.0	63	100	81.5	60	96	78.0	58	94	76.0	60	94	77.0	59	95	77.0	58	99	78.5	60	93	76.5	57	91	74.0		
09/08	63	107	85.0	70	104	87.0	66	100	83.0	61	89	75.0	58	93	75.5	57	93	75.0	56	93	74.5	56	92	74.0	61	96	78.5	60	95	77.5	58	89	73.5	58	92	75.0		
09/09	69	105	87.0	69	100	84.5	68	92	80.0	57	94	75.5	57	94	75.5	58	95	76.5	58	97	77.5	58	95	76.5	63	94	78.5	59	87	73.0	56	85	70.5	55	86	70.5		
09/10	68	99	83.5	69	89	79.0	59	92	75.5	57	95	76.0	58	96	77.0	60	98	79.0	59	93	76.0	58	91	74.5	60	87	73.5	60	83	71.5	58	87	72.5	57	90	73.5		
09/11	69	90	79.5	67	91	79.0	57	93	75.0	59	96	77.5	62	100	81.0	60	94	77.0	58	92	75.0	54	87	70.5	60	80	70.0	58	84	71.0	58	86	72.0	54	89	71.5		
09/12	65	96	80.5	61	95	78.0	59	95	77.0	62	99	80.5	60	95	77.5	59	93	76.0	55	86	70.5	53	83	68.0	61	75	68.0	56	80	68.0	55	85	70.0	56	88	72.0		
09/13	60	96	78.0	62	99	80.5	63	102	82.5	60	94	77.0	57	89	73.0	56	85	70.5	55	79	67.0	52	80	66.0	60	90	75.0	62	96	79.0	62	93	77.5	59	91	75.0		
09/14	62	100	81.0	60	103	81.5	60	94	77.0	57	88	72.5	56	89	72.5	57	80	68.5	54	79	66.5	52	82	67.0	60	91	75.5	57	91	74.0	56	85	70.5	57	87	72.0		
09/15	60	106	83.0	63	97	80.0	56	91	73.5	55	91	73.0	55	83	69.0	55	73	64.0	47	80	63.5	53	87	70.0	57	89	73.0	58	88	73.0	55	87	71.0	57	87	72.0		
09/16	63	96	79.5	60	92	76.0	55	92	73.5	54	80	67.0	54	74	64.0	50	81	65.5	54	87	70.5	53	88	70.5	59	90	74.5	57	96	76.5	61	93	77.0	59	90	74.5		
09/17	59	93	76.0	57	90	73.5	53	77	65.0	52	75	63.5	51	87	69.0	55	91	73.0	56	90	73.0	55	90	72.5	63	96	79.5	59	96	77.5	56	84	70.0	56	87	71.5		
09/18	55	91	73.0	61	72	66.5	51	76	63.5	53	89	71.0	55	91	73.0	58	90	74.0	53	92	72.5	57	95	76.0	58	95	76.5	57	94	75.5	58	90	74.0	56	90	73.0		
09/19	60	72	66.0	58	78	68.0	55	91	73.0	57	92	74.5	56	90	73.0	57	93	75.0	59	95	77.0	57	92	74.5	60	93	76.5	58	95	76.5	58	90	74.0	56	90	73.0		
09/20	58	80	69.0	66	90	78.0	58	92	75.0	56	90	73.0	55	96	75.5	59	97	78.0	58	93	75.5	59	89	74.0	61	90	75.5	59	91	75.0	58	87	72.5	56	88	72.0		
09/21	66	93	79.5	59	96	77.5	59	91	75.0	59	94	76.5	61	97	79.0	58	93	75.5	57	91	74.0	55	87	71.0	59	88	73.5	59	84	71.5	57	85	71.0	56	88	72.0		
09/22	56	95	75.5	60	93	76.5	60	94	77.0	59	96	77.5	58	93	75.5	56	88	72.0	53	84	68.5	53	79	66.0	58	77	67.5	57	82	69.5	56	81	68.5	55	85	70.0		
09/23	59	94	76.5	74	97	85.5	59	98	78.5	57	91	74.0	55	88	71.5	53	84	68.5	51	73	62.0	46	74	60.0	55	86	70.5	52	89	70.5	56	85	70.5	52	85	68.5		
09/24	74	98	86.0	62	98	80.0	57	90	73.5	54	84	69.0	51	80	65.5	50	75	62.5	49	80	64.5	49	84	66.5	58	89	73.5	57	91	74.0	57	89	73.0	56	88	72.0		
09/25	60	99	79.5	59	90	74.5	53	85	69.0	51	79	65.0	47	74	60.5	47	81	64.0	49	84	66.5	52	84	68.0	57	89	73.0	57	93	75.0	59	89	74.0	55	87	71.0		
09/26	58	91	74.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09/27	56	85	70.5	54	77	65.5	43	74	58.5	47	83	65.0	52	89	70.5	51	89	70.0	53	88	70.5	54	89	71.5	60	94	77.0	59	91	75.0	57	85	71.0	53	82	67.5		
09/28	53	75	64.0	50	75	62.5	49	82	65.5	52	88	70.0	52	88	70.0	54	91	72.5	53	90	71.5	54	89	71.5	60	91	75.5	58	81	69.5	54	76	65.0	50	78	64.0		
09/29	50	77	63.5	61	85	73.0	52	90	71.0	53	89	71.0	53	92	72.5	53	92	72.5	54	91	72.5	54	85	69.5	57	86	71.5	56	83	69.5	55	81	68.0	54	82	68.0		
09/30	60	87	73.5	53	93	73.0	55	89	72.0	54	94	74.0	55	91	73.0	53	89	71.0	53	84	68.5	52	77	64.5	56	79	67.5	55	77	66.0	53	74	63.5	53	81	67.0		
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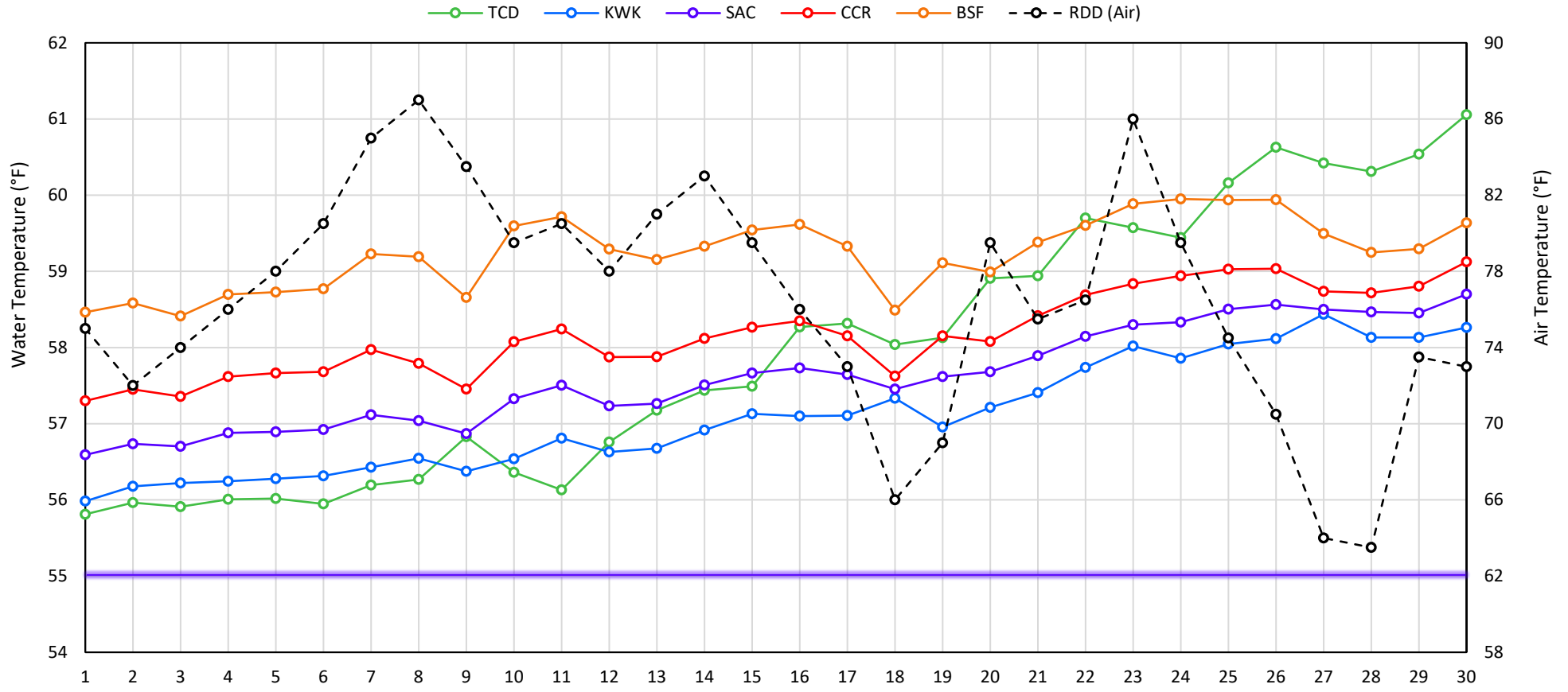
Web Links

- [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 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

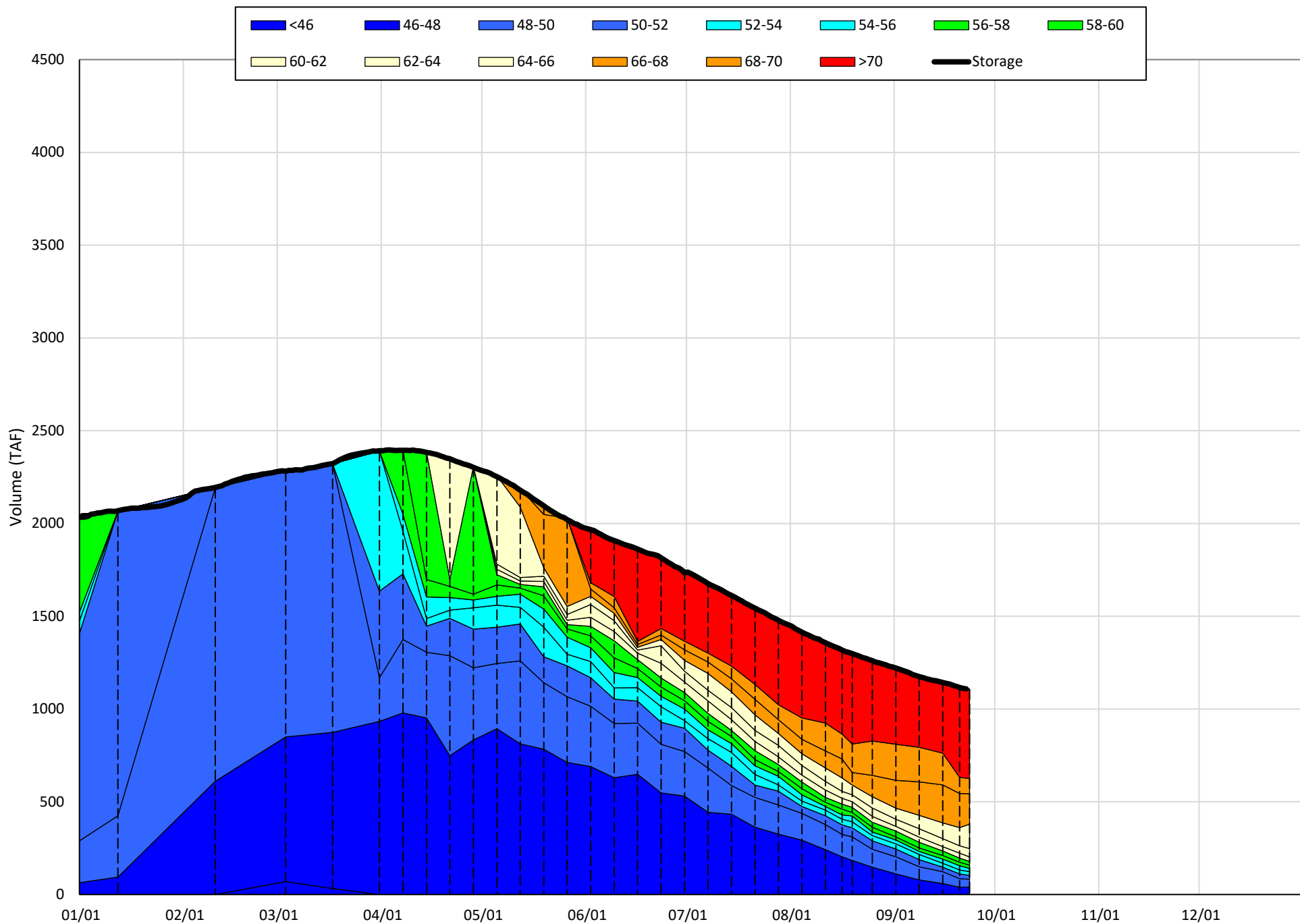
¹ Distances are approximate

Shasta Lake Isothermobaths & Cold Water Pool Statistics

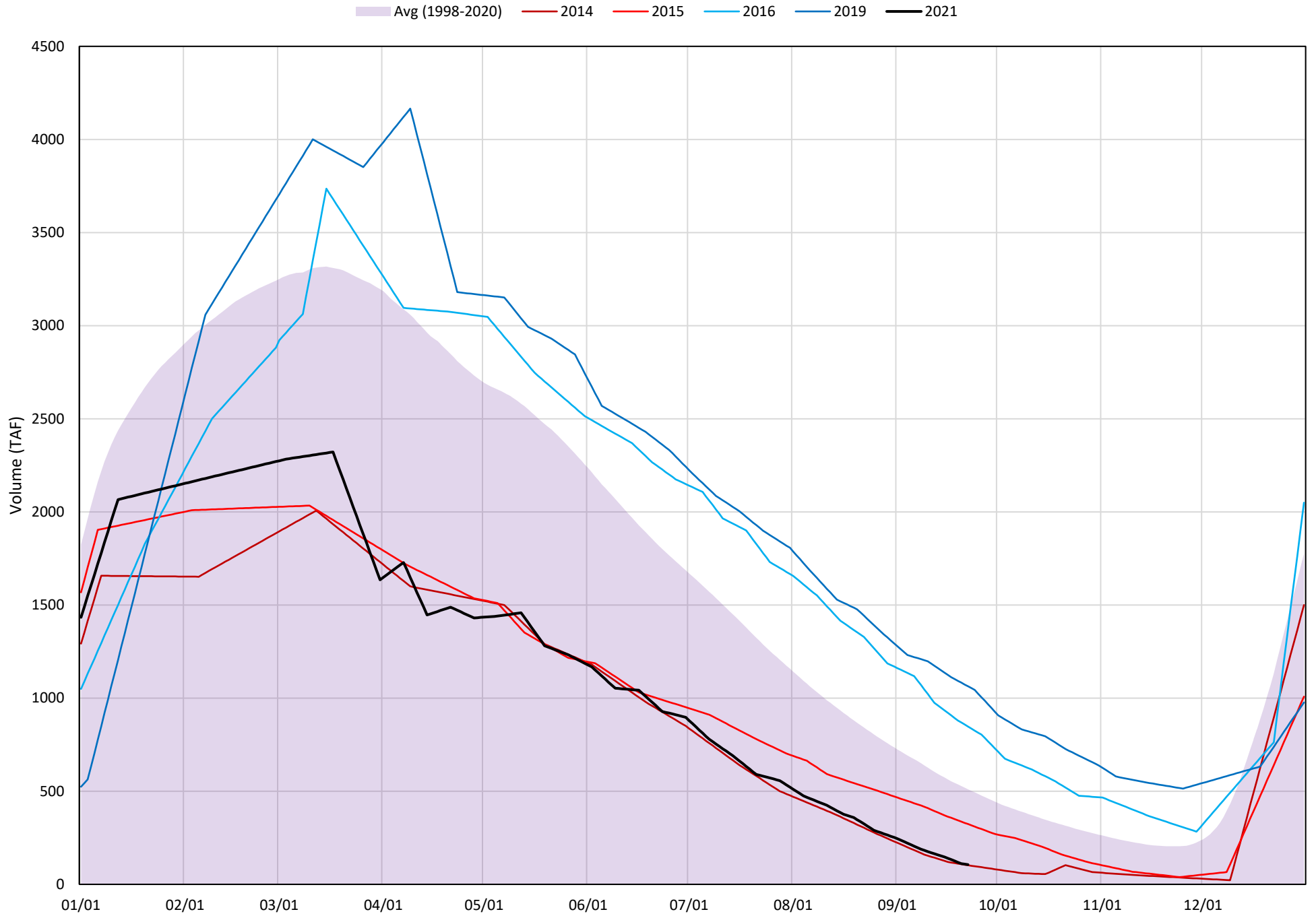
2021

Page	Description
6	- Shasta Lake Isothermobaths Plot
7	- Shasta Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$
8	- Shasta Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$
9	- Shasta Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$
10	- Shasta Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances
11	- Shasta Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$ - Percent Exceedances
12	- Shasta Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$ - Percent Exceedances
13	- Shasta Lake Cold Water Pool Comparison by Year

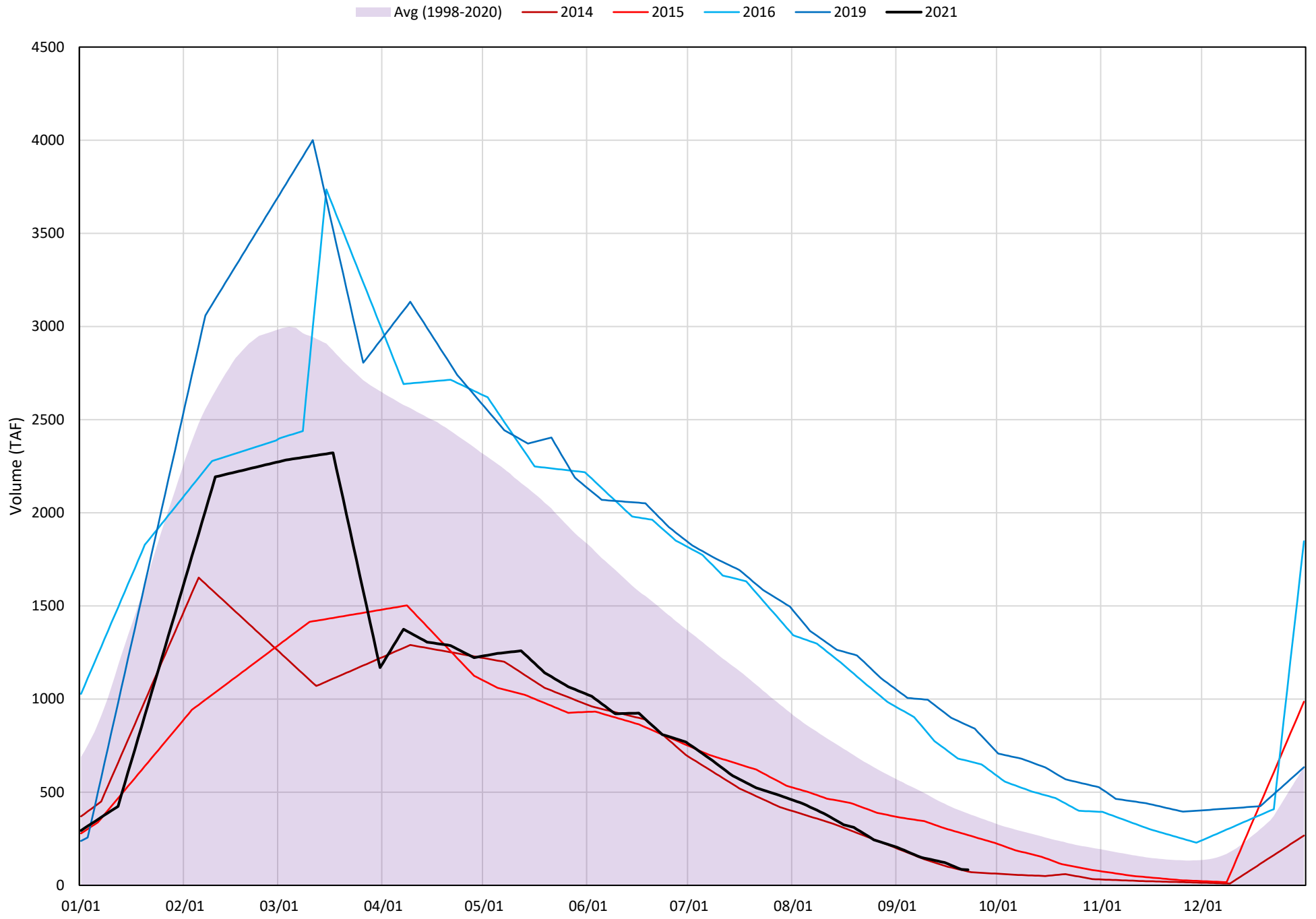
Shasta Lake Isothermobaths Plot - 2021



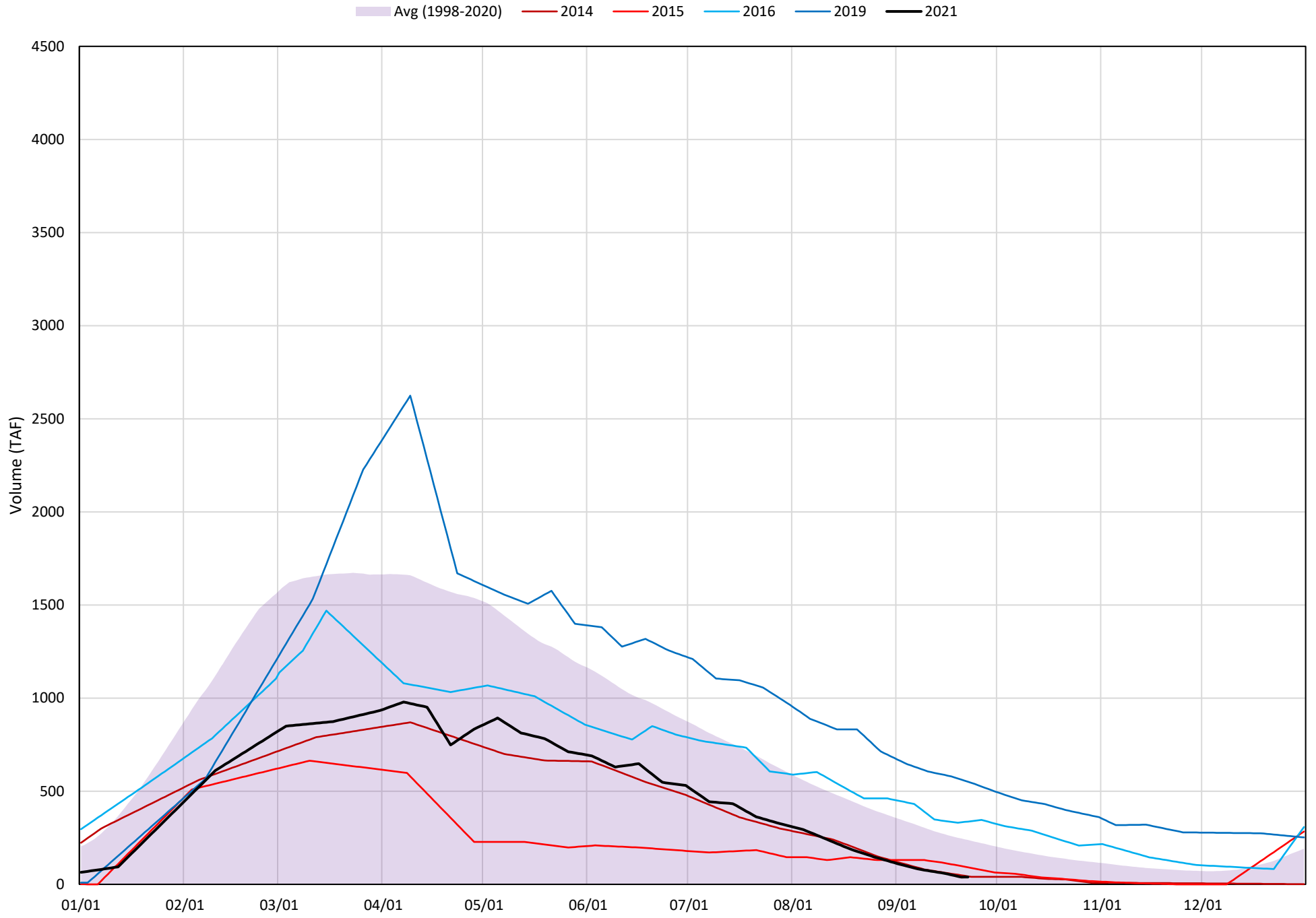
Shasta Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$



Shasta Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$

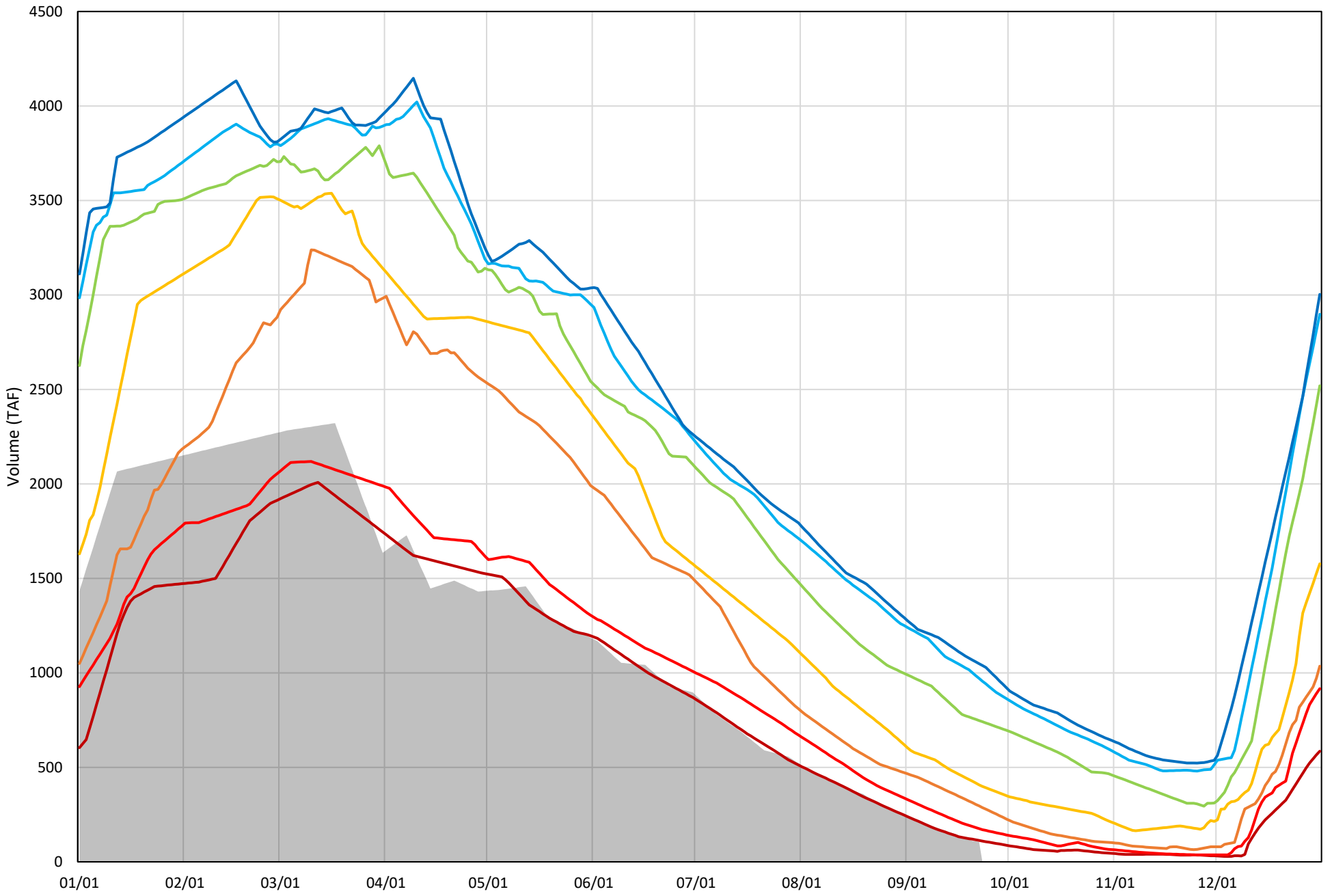


Shasta Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$

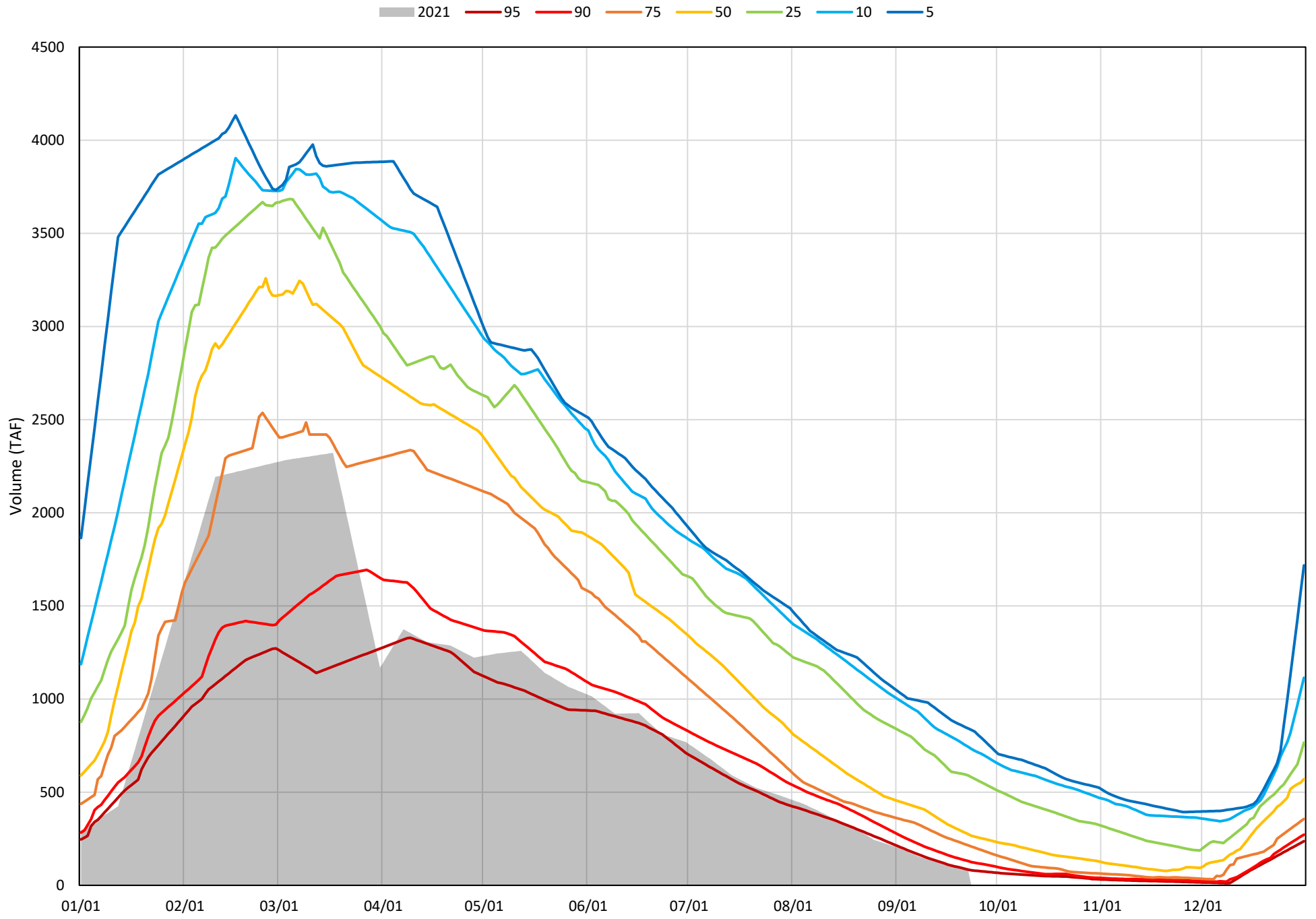


Shasta Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances (1998-2020)

2021 95 90 75 50 25 10 5

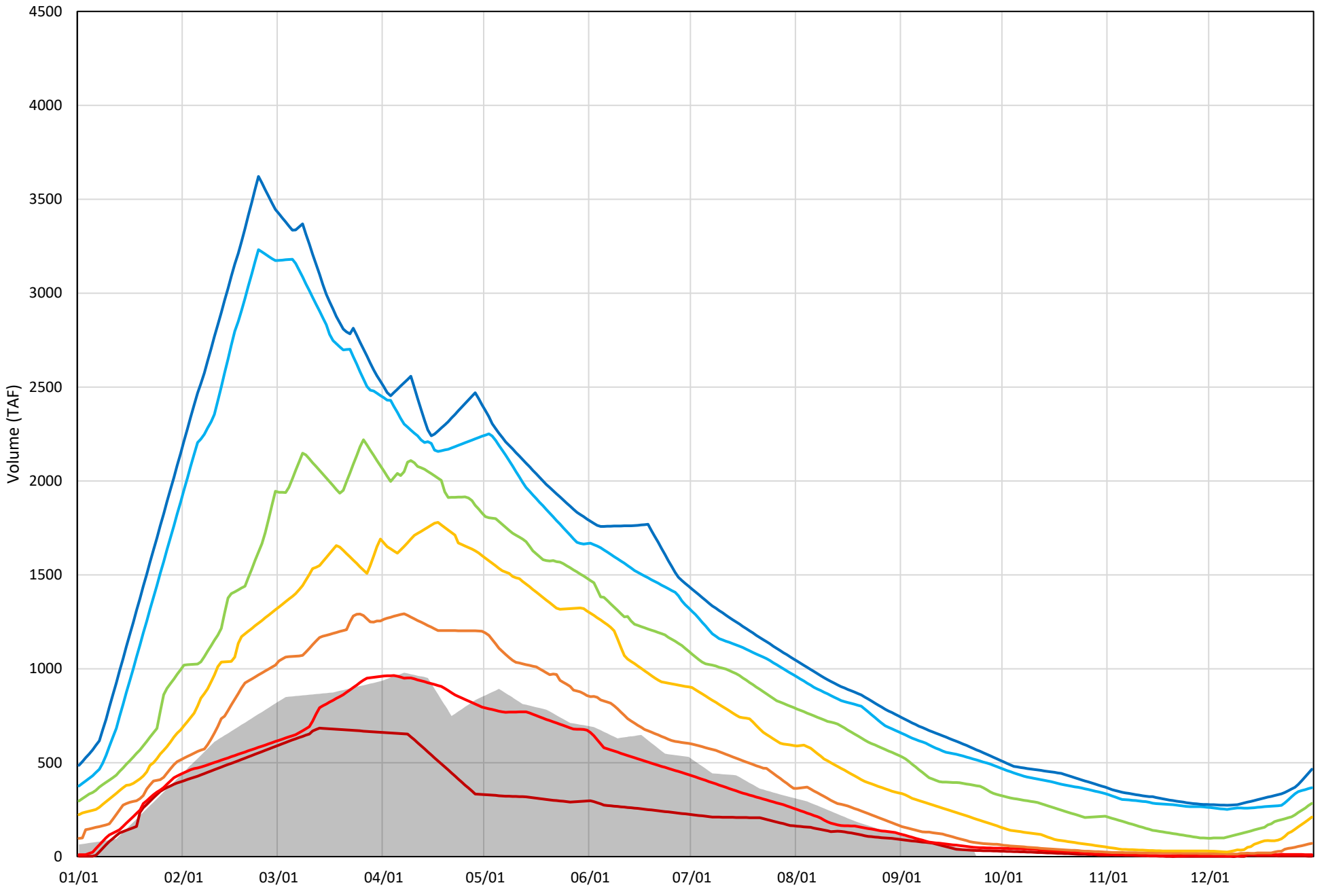


Shasta Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$ - Percent Exceedances (1998-2020)



Shasta Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$ - Percent Exceedances (1998-2020)

2021 95 90 75 50 25 10 5



Shasta Lake Cold Water Pool Comparison by Year (for Specified Date)

Sep-23 2021	Δ TAF				% Δ			
	≤52°	≤50°	≤48°	Abs. Avg.	≤52°	≤50°	≤48°	Abs. Avg.
1998	216	71	-8	98	205	85	-20	103
1999	642	509	403	518	607	610	1019	745
2000	285	147	27	153	269	177	69	172
2001	235	190	166	197	222	228	419	290
2002	415	346	351	371	393	414	888	565
2003	413	181	21	205	390	217	54	220
2004	101	52	35	63	96	63	90	83
2005	158	83	36	92	149	100	92	114
2006	448	351	240	346	424	420	608	484
2007	190	160	137	162	180	192	347	239
2008	49	43	53	48	47	52	133	77
2009	164	132	115	137	155	158	292	202
2010	724	507	294	508	684	608	743	678
2011	883	698	544	708	834	836	1375	1015
2012	567	478	341	462	535	573	863	657
2013	302	280	248	277	285	336	626	416
2014	-3	-9	3	5	-3	-11	8	7
2015	218	186	52	152	206	223	130	186
2016	742	584	298	541	701	700	753	718
2017	839	604	434	626	793	724	1099	872
2018	465	383	191	346	440	458	484	461
2019	958	774	511	748	905	928	1292	1042
2020	302	191	68	187	285	229	171	228
2021	0	0	0	0	0	0	0	0

}

Historic - Current

}

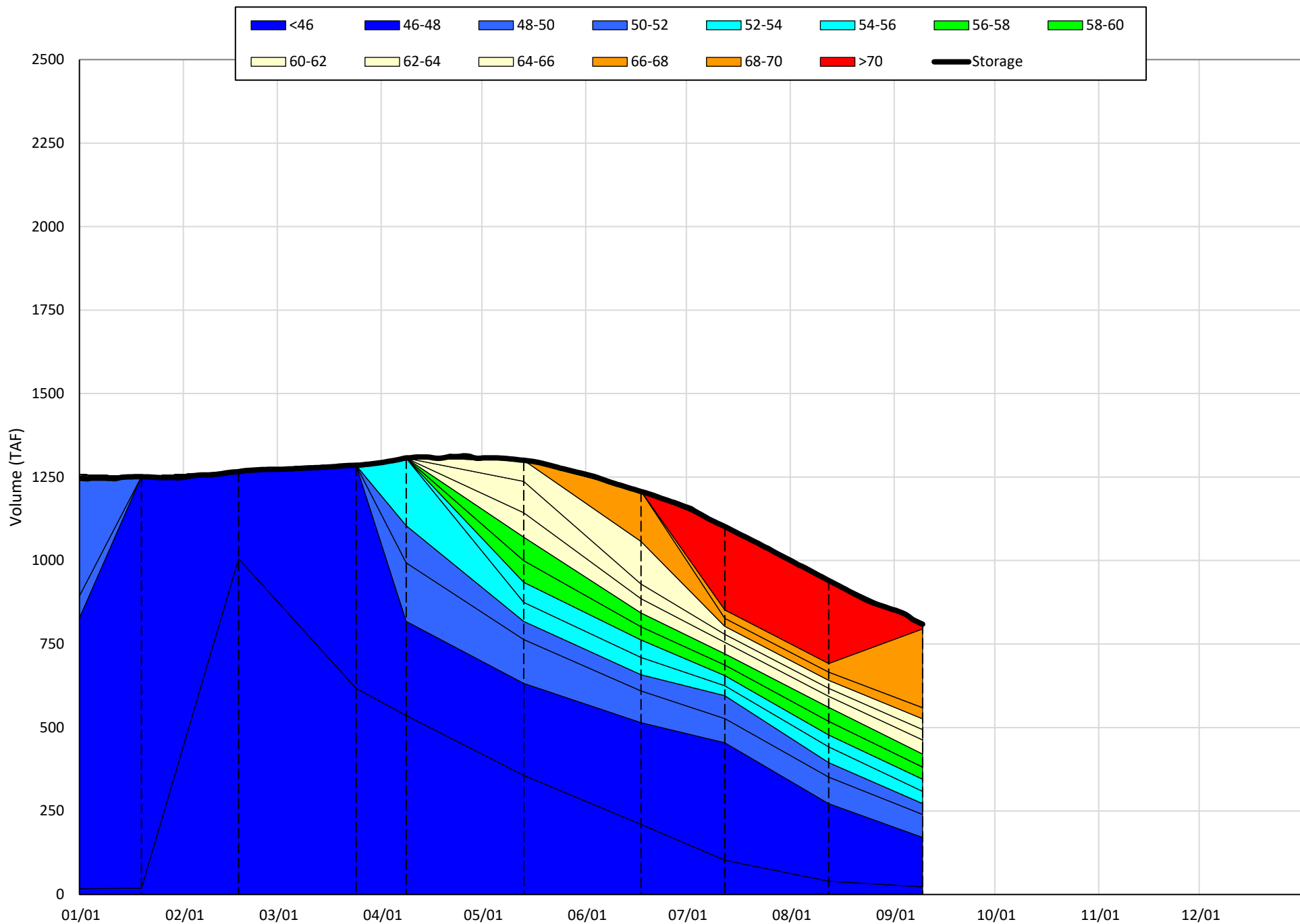
(Historic - Current) / Current

Trinity Lake Isothermobaths & Cold Water Pool Statistics

2021

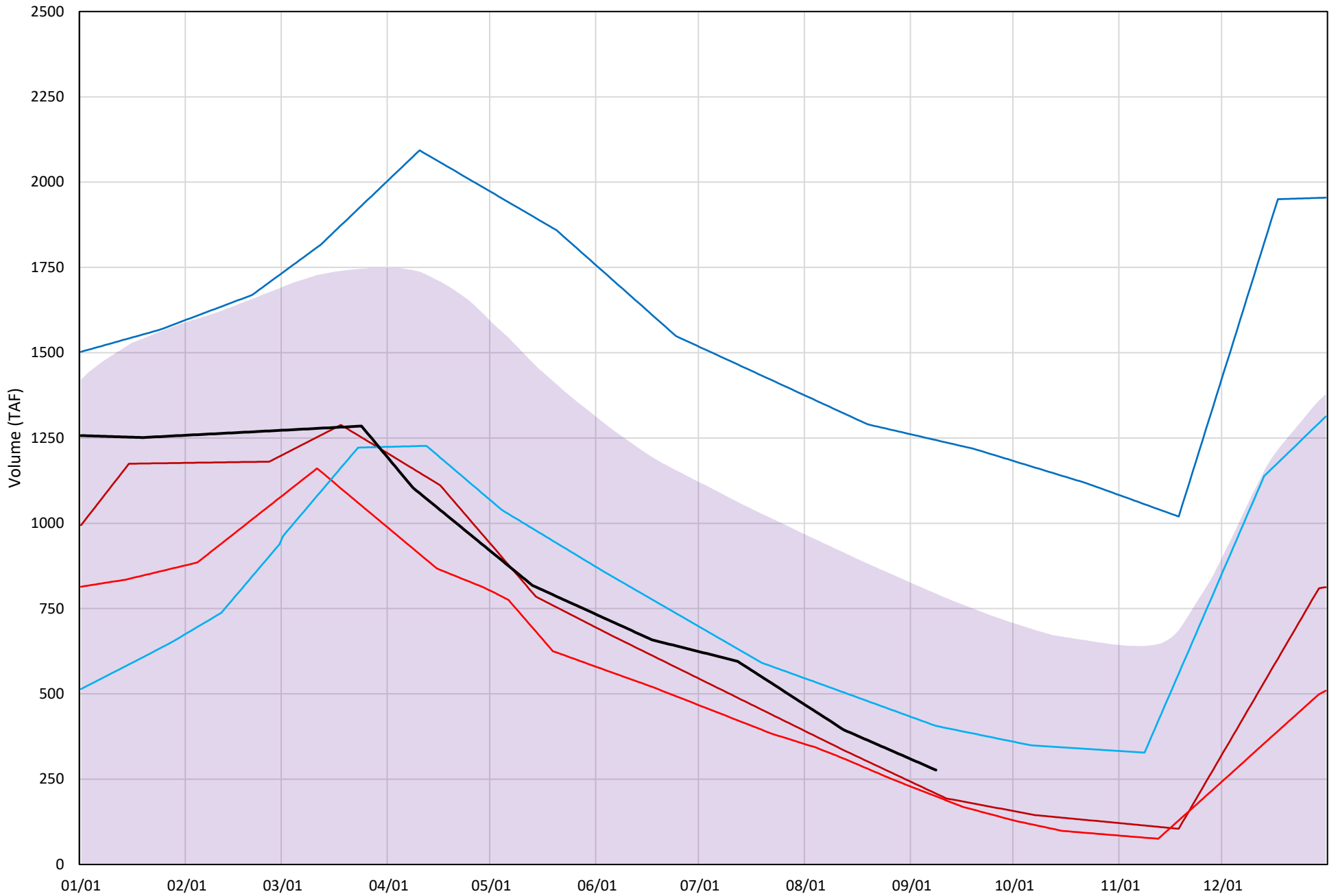
Page	Description
15	- Trinity Lake Isothermobaths Plot
16	- Trinity Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$
17	- Trinity Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$
18	- Trinity Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$
19	- Trinity Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances
20	- Trinity Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$ - Percent Exceedances
21	- Trinity Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$ - Percent Exceedances
22	- Trinity Lake Cold Water Pool Comparison by Year

Trinity Lake Isothermobaths Plot - 2021



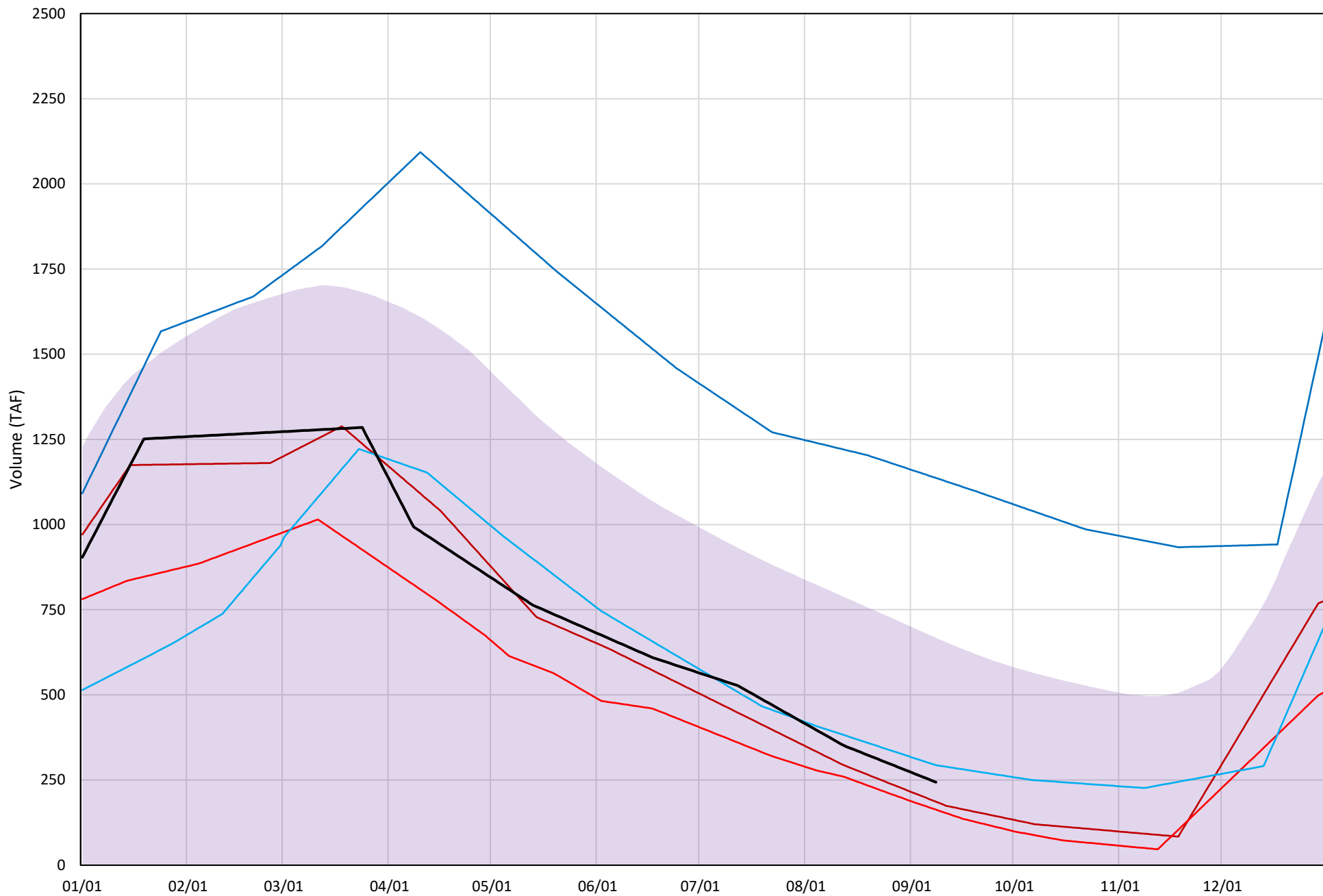
Trinity Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$

Avg (2000-2020) 2014 2015 2016 2019 2021

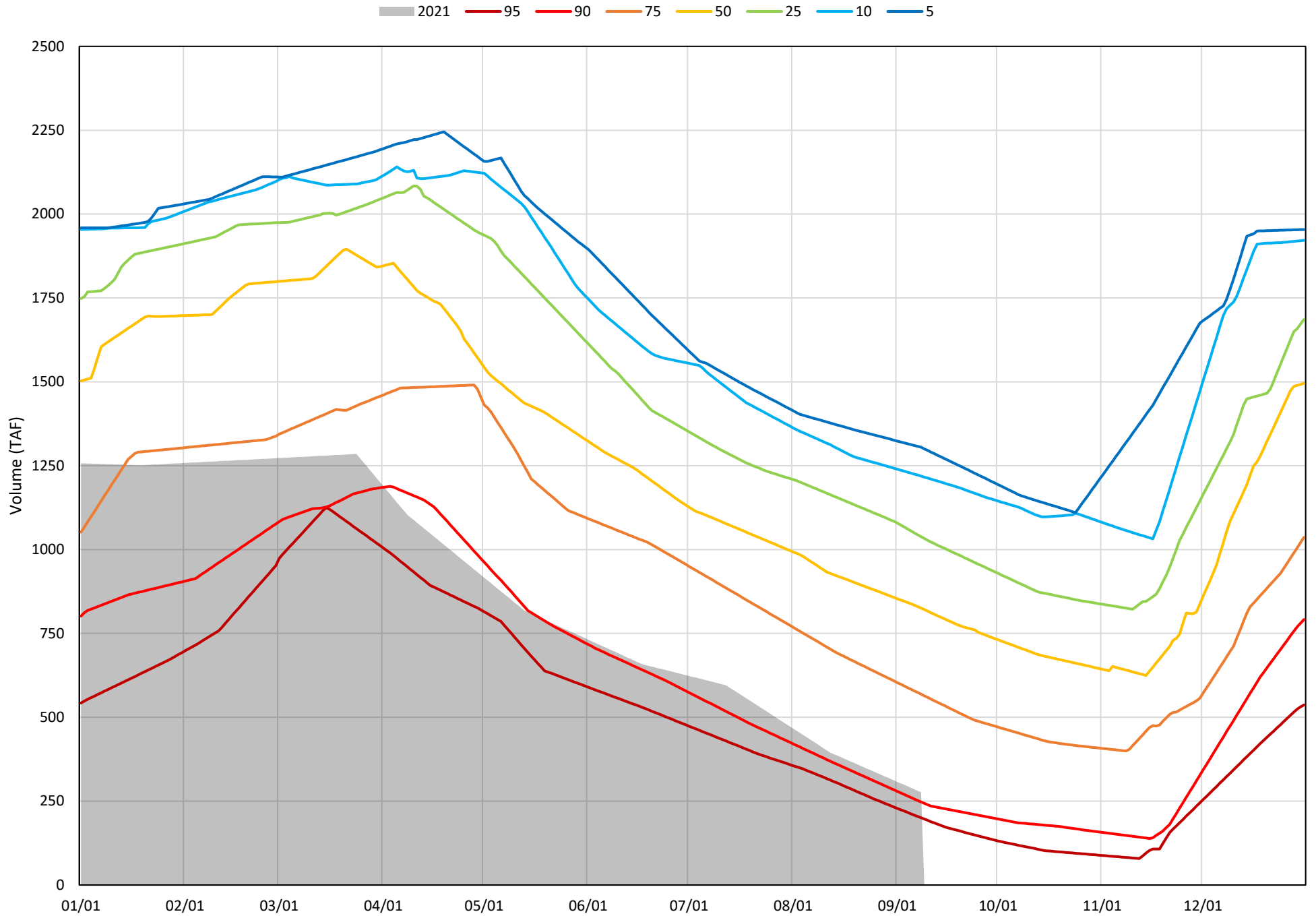


Trinity Lake Cold Water Pool Volume ≤50°F

Avg (2000-2020) 2014 2015 2016 2019 2021

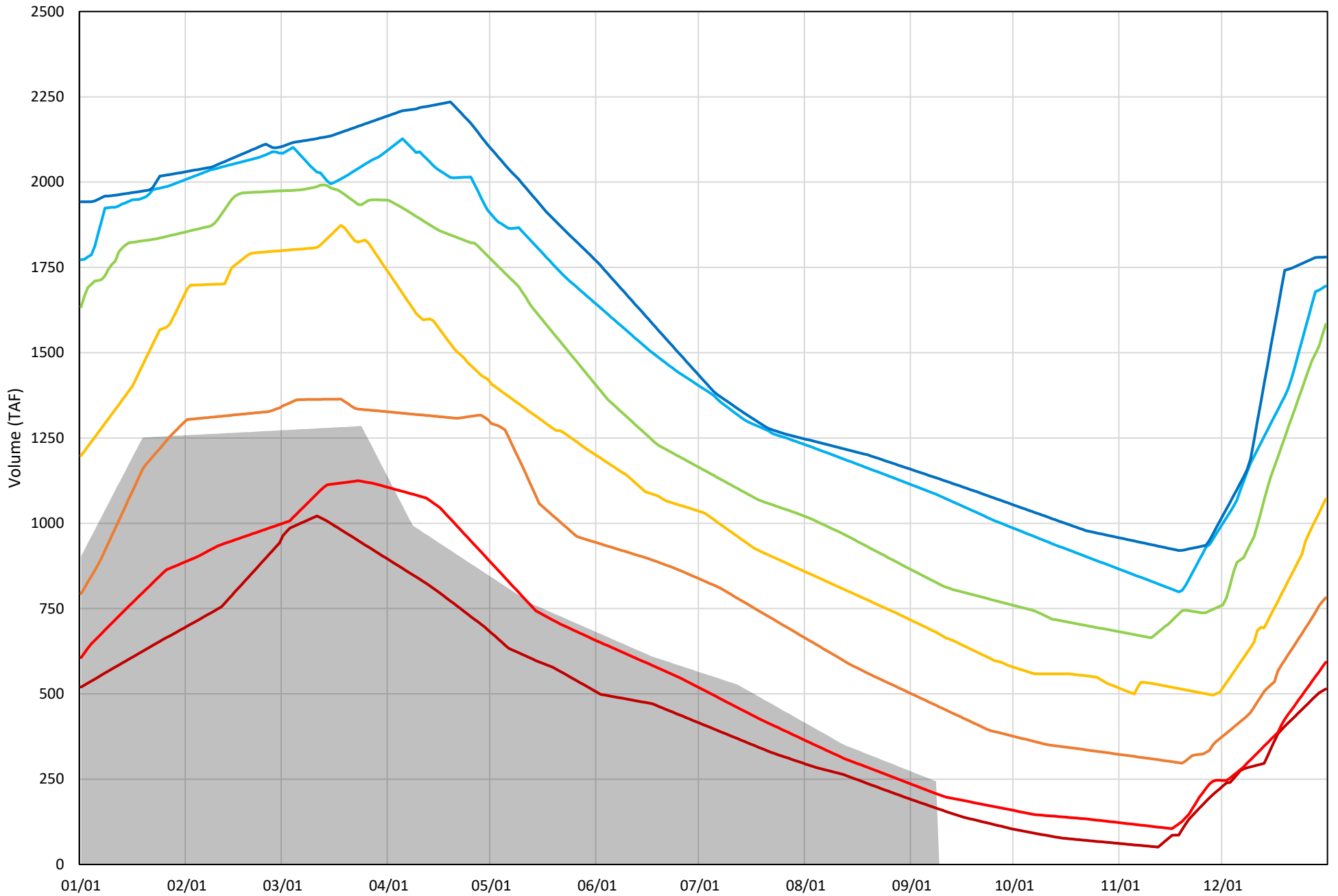


Trinity Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances (2000-2020)



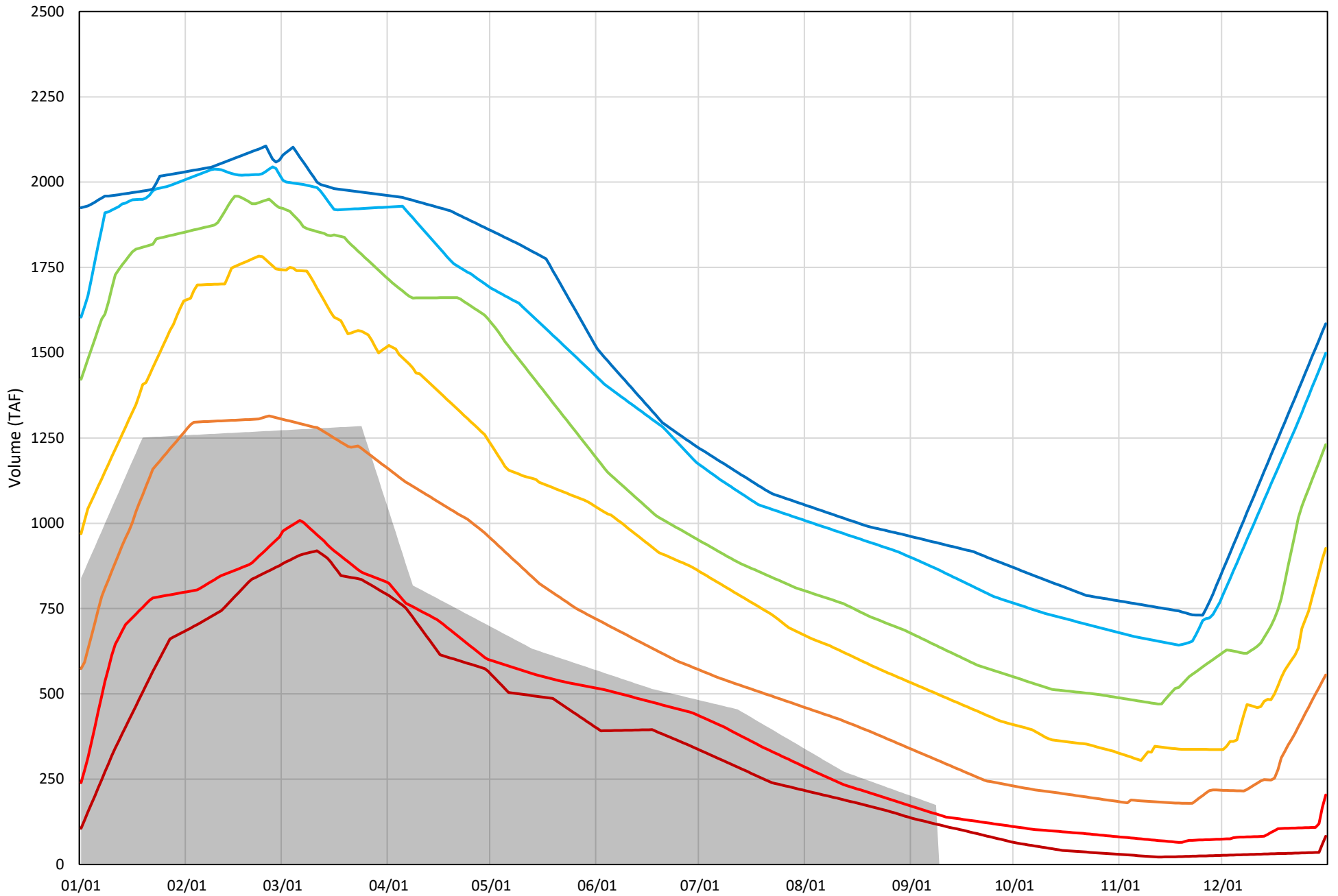
Trinity Lake Cold Water Pool Volume ≤50°F - Percent Exceedances (2000-2020)

2021 95 90 75 50 25 10 5



Trinity Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$ - Percent Exceedances (2000-2020)

2021 95 90 75 50 25 10 5



Trinity Cold Water Pool Comparison by Year (for Specified Date)

Sep-09 2021	Δ TAF				% Δ			
	≤52°	≤50°	≤48°	Abs. Avg.	≤52°	≤50°	≤48°	Abs. Avg.
2000	607	437	298	447	219	179	171	190
2001	483	412	327	407	174	169	187	177
2002	494	437	383	438	179	179	219	192
2003	793	585	389	589	286	240	223	250
2004	550	430	276	419	199	176	158	178
2005	731	579	298	536	264	237	171	224
2006	843	697	505	682	305	286	289	293
2007	549	484	430	488	198	198	247	214
2008	239	152	90	160	86	63	52	67
2009	164	120	52	112	59	49	30	46
2010	540	381	176	366	195	156	101	151
2011	1035	861	676	857	374	353	387	371
2012	814	764	697	759	294	313	400	336
2013	346	293	228	289	125	120	131	125
2014	-69	-57	-45	57	-25	-24	-26	25
2015	-77	-81	-57	72	-28	-33	-33	31
2016	129	50	50	76	47	20	29	32
2017	664	483	348	498	240	198	199	212
2018	636	581	505	574	230	239	290	253
2019	967	893	777	879	349	366	445	387
2020	422	398	338	386	153	163	194	170
2021	0	0	0	0	0	0	0	0

Historic - Current

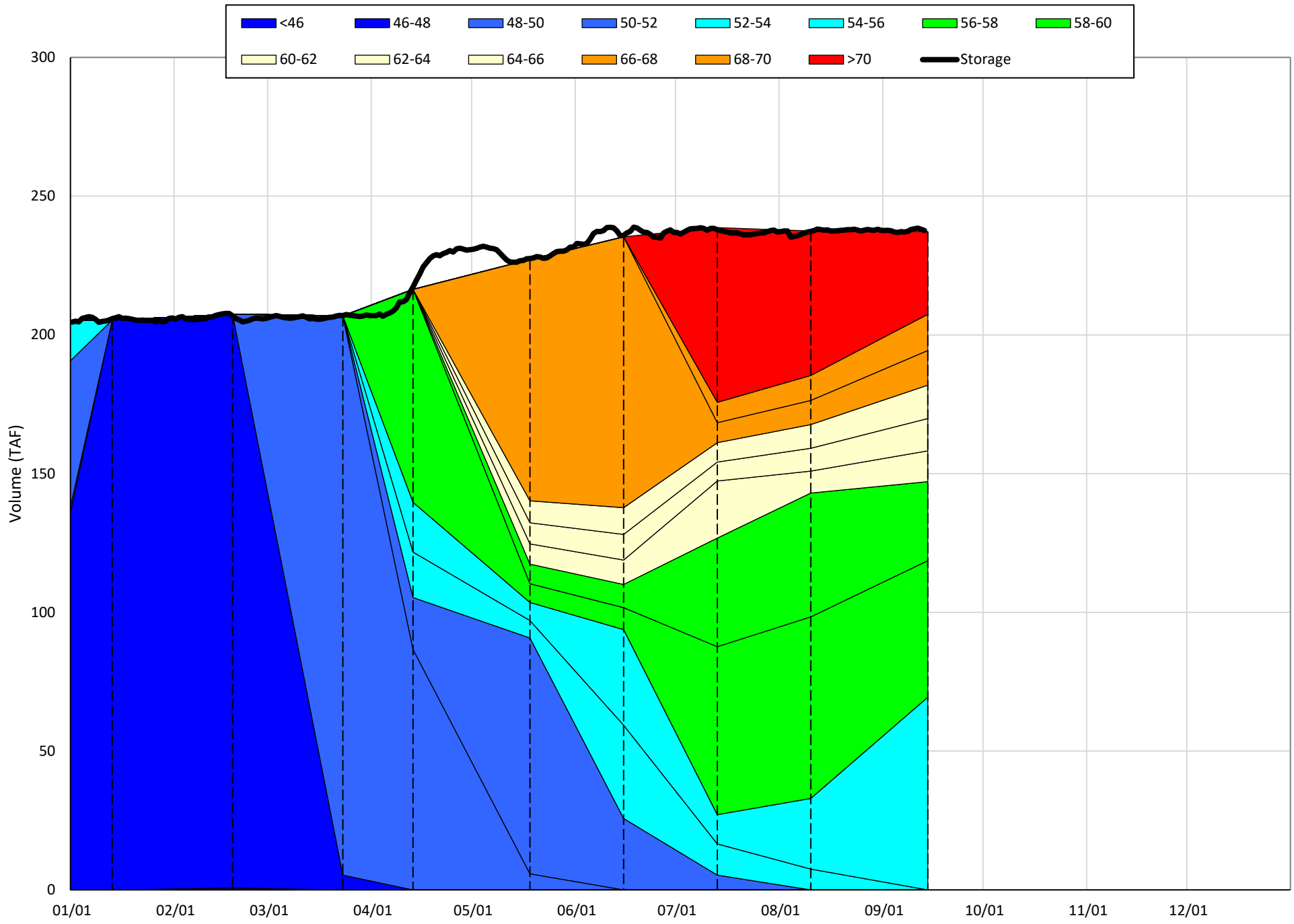
(Historic - Current) / Current

Whiskeytown Lake Isothermobaths & Cold Water Pool Statistics

2021

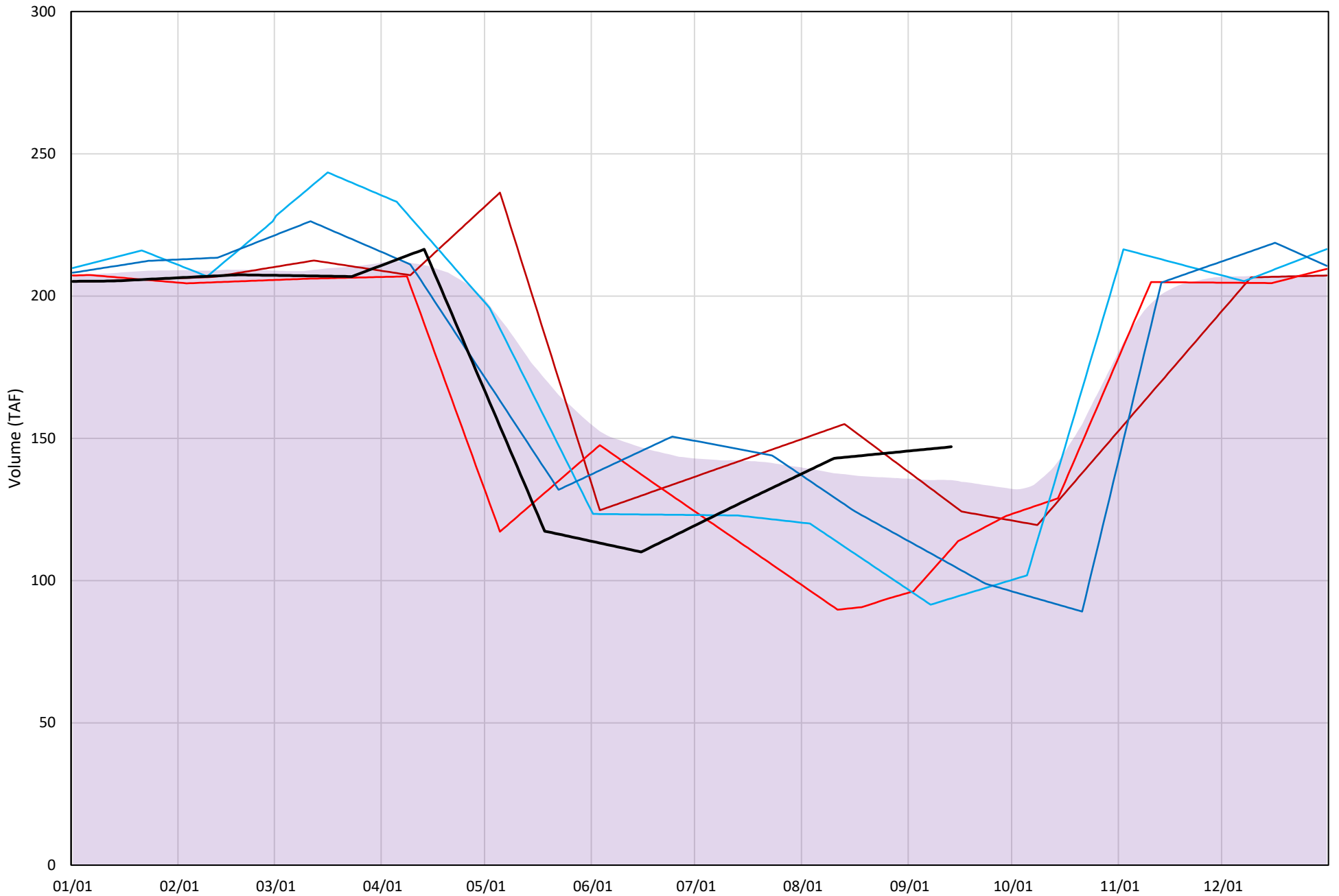
Page	Description
24	- Whiskeytown Lake Isothermobaths Plot
25	- Whiskeytown Lake Cold Water Pool Volume $\leq 60^{\circ}\text{F}$
26	- Whiskeytown Lake Cold Water Pool Volume $\leq 58^{\circ}\text{F}$
27	- Whiskeytown Lake Cold Water Pool Volume $\leq 56^{\circ}\text{F}$
28	- Whiskeytown Lake Cold Water Pool Volume $\leq 60^{\circ}\text{F}$ - Percent Exceedances
29	- Whiskeytown Lake Cold Water Pool Volume $\leq 58^{\circ}\text{F}$ - Percent Exceedances
30	- Whiskeytown Lake Cold Water Pool Volume $\leq 56^{\circ}\text{F}$ - Percent Exceedances
31	- Whiskeytown Lake Cold Water Pool Comparison by Year

Whiskeytown Lake Isothermobaths Plot - 2021



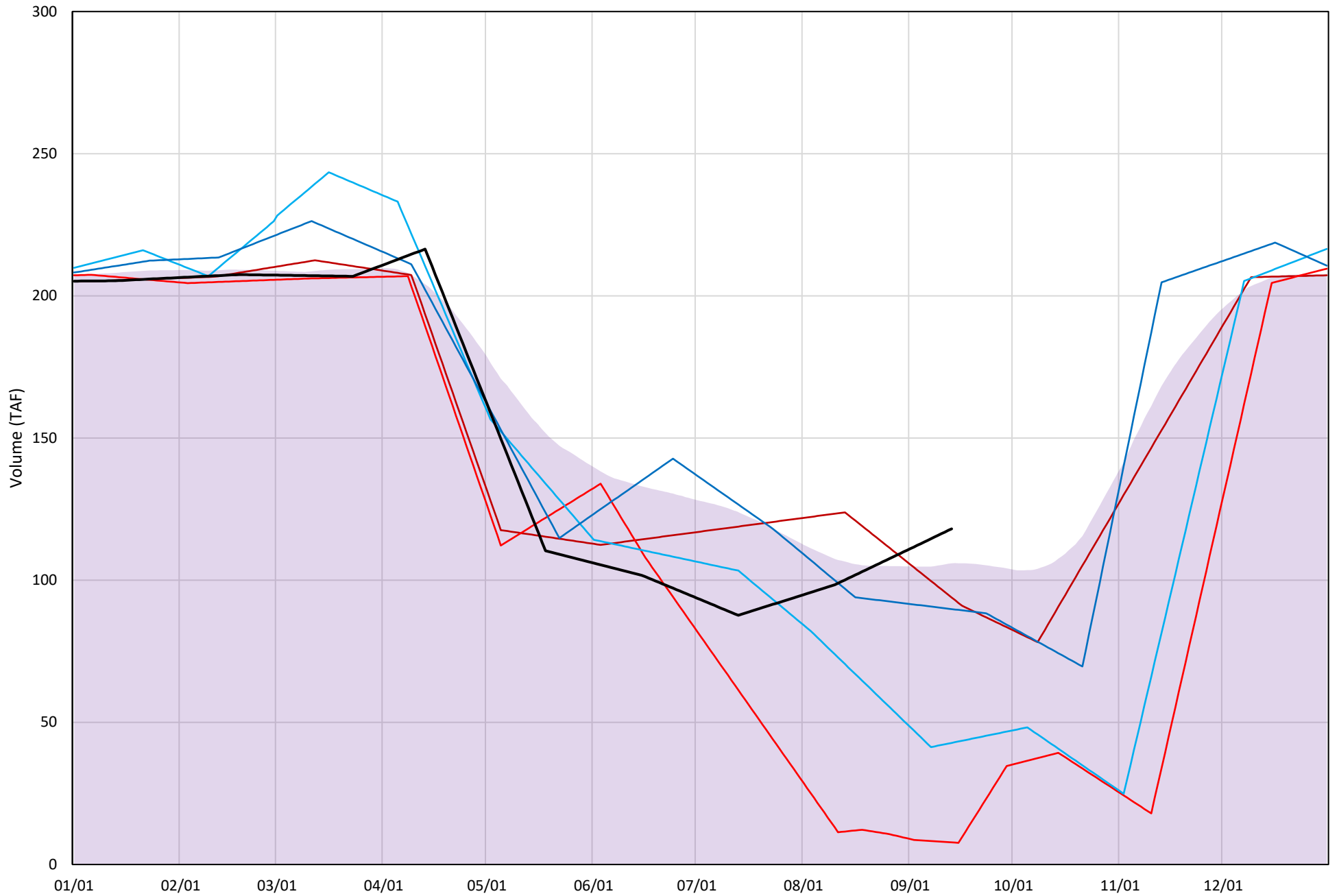
Whiskeytown Lake Cold Water Pool Volume $\leq 60^{\circ}\text{F}$

Avg (2000-2020) 2014 2015 2016 2019 2021



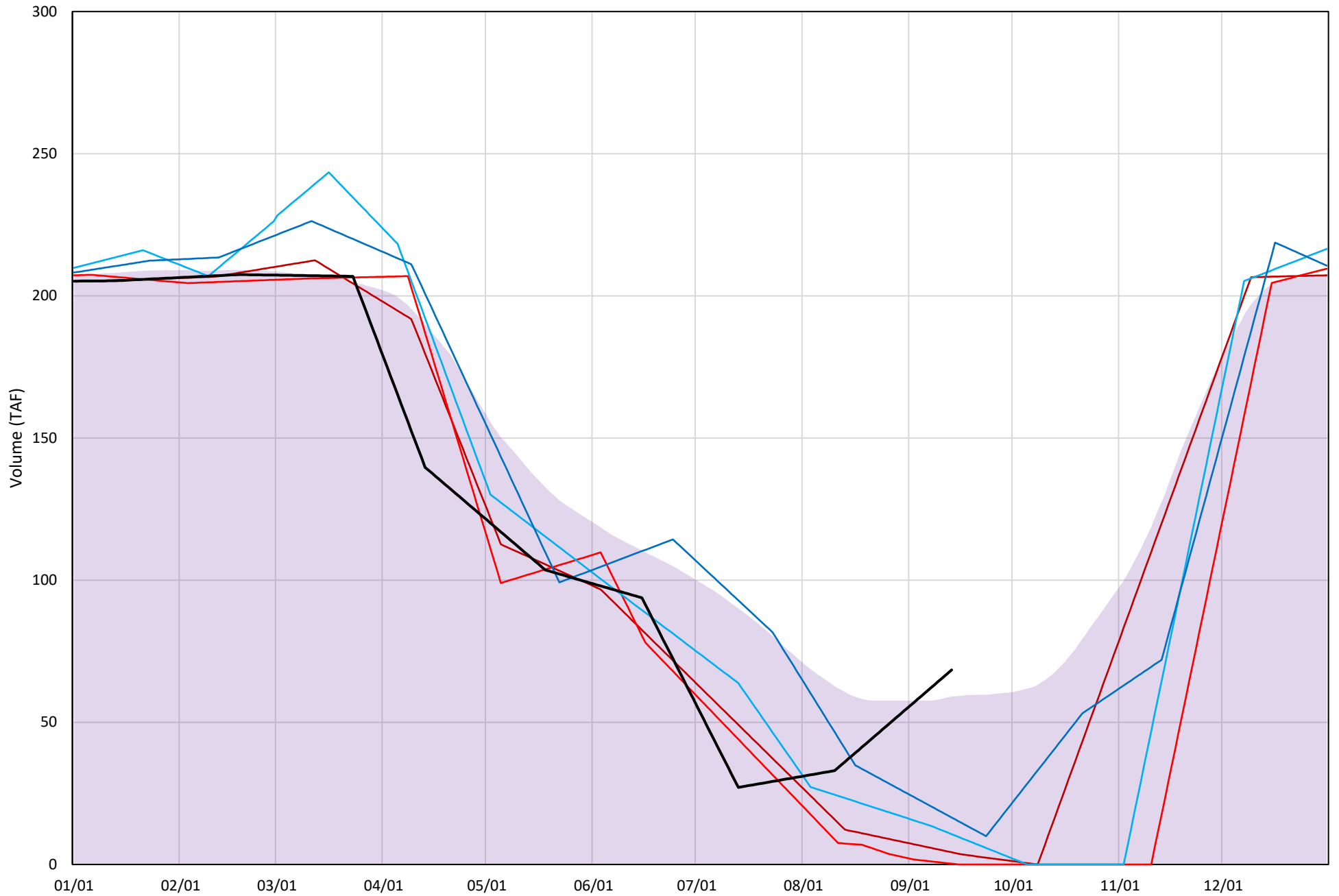
Whiskeytown Lake Cold Water Pool Volume $\leq 58^{\circ}\text{F}$

Avg (2000-2020) 2014 2015 2016 2019 2021



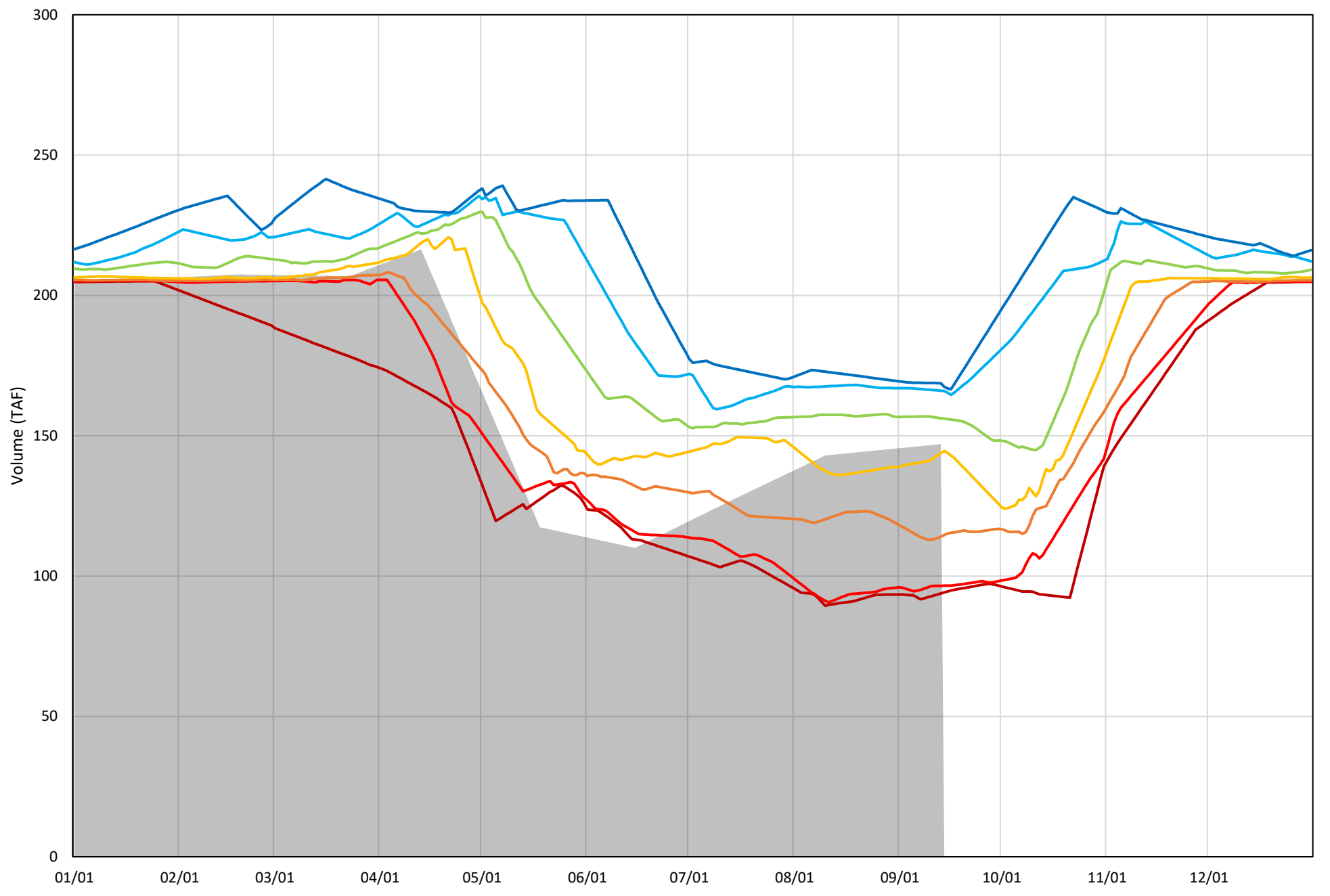
Whiskeytown Lake Cold Water Pool Volume ≤56°F

Avg (2000-2020) 2014 2015 2016 2019 2021



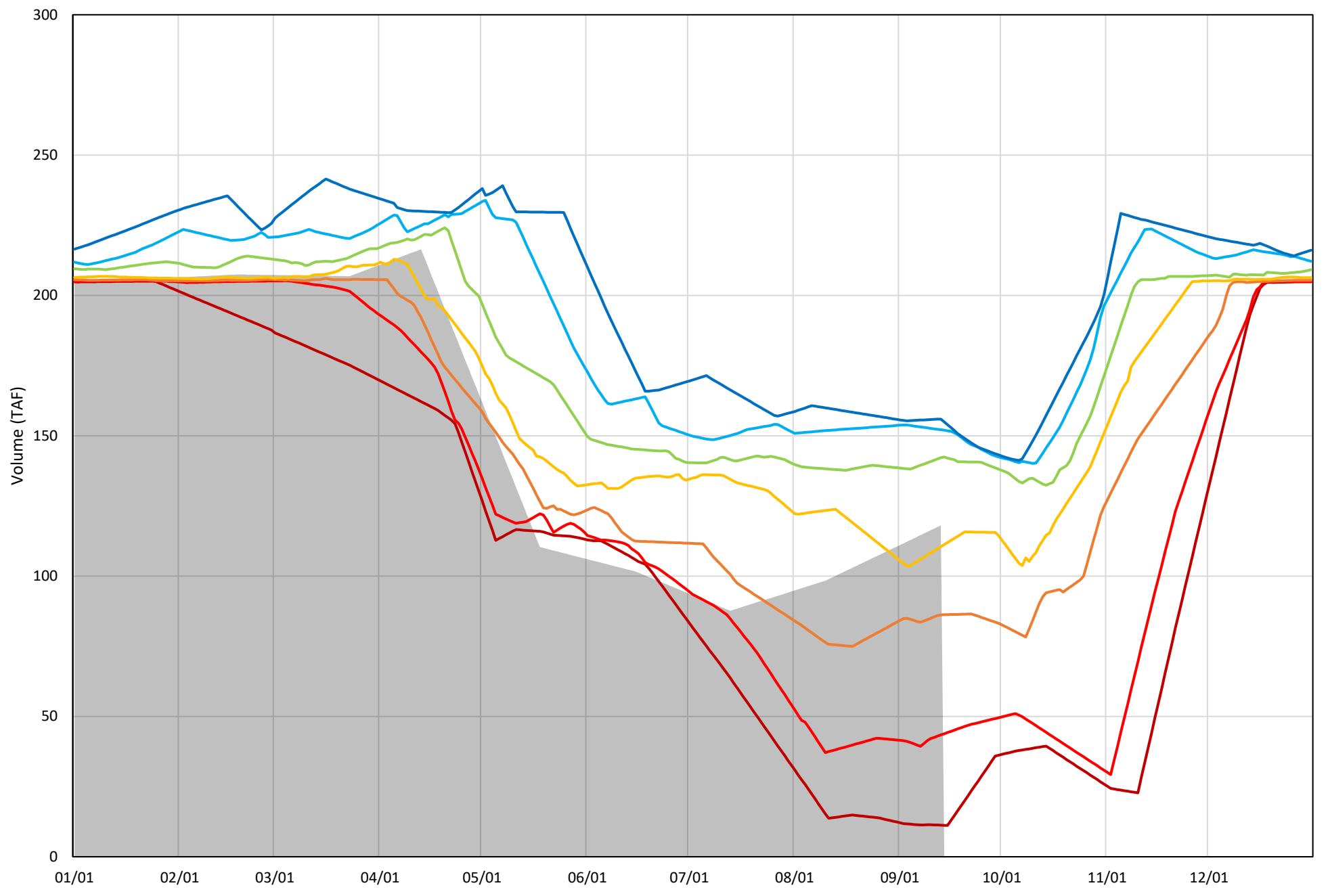
Whiskeytown Lake Cold Water Pool Volume $\leq 60^{\circ}\text{F}$ - Percent Exceedances (2000-2020)

2021 95 90 75 50 25 10 5



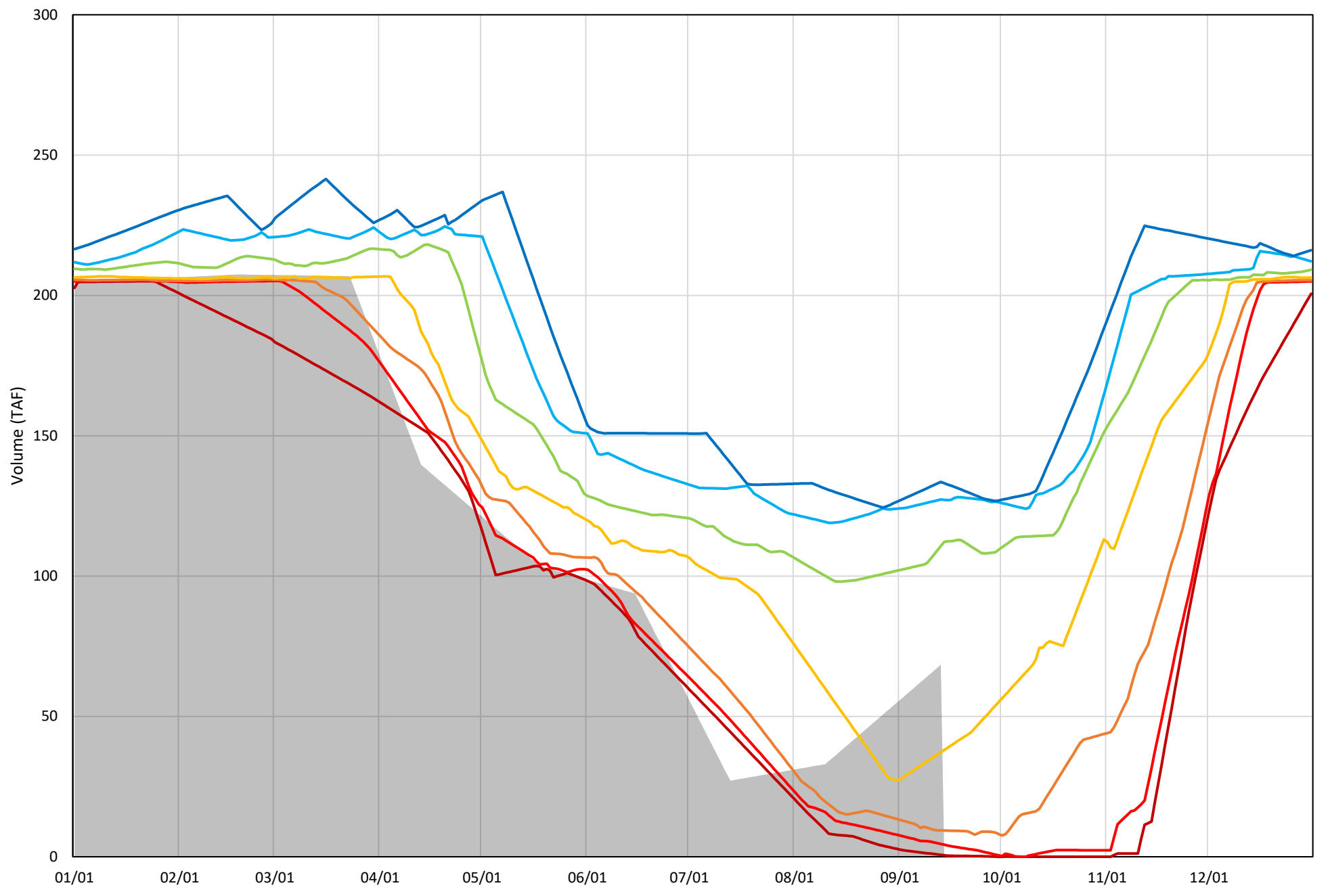
Whiskeytown Lake Cold Water Pool Volume $\leq 58^{\circ}\text{F}$ - Percent Exceedances (2000-2020)

2021 95 90 75 50 25 10 5



Whiskeytown Lake Cold Water Pool Volume $\leq 56^{\circ}\text{F}$ - Percent Exceedances (2000-2020)

2021 95 90 75 50 25 10 5



Whiskeytown Cold Water Pool Comparison by Year (for Specified Date)

Sep-14 2021	Δ TAF				% Δ			
	≤60°	≤58°	≤56°	Abs. Avg.	≤60°	≤58°	≤56°	Abs. Avg.
2000	4	43	90	46	2	44	266	104
2001	15	50	94	53	10	50	276	112
2002	14	48	75	45	10	48	219	92
2003	4	43	79	42	3	43	232	92
2004	11	37	45	31	8	37	133	59
2005	-50	-53	-26	43	-34	-54	-76	55
2006	25	57	100	61	17	58	294	123
2007	3	25	44	24	2	26	130	53
2008	2	33	68	34	1	33	201	79
2009	-22	-14	-28	22	-15	-14	-83	38
2010	-34	-47	-27	36	-23	-48	-80	50
2011	-27	-11	-14	17	-19	-11	-42	24
2012	-2	12	3	6	-1	12	9	8
2013	24	54	82	53	16	55	242	104
2014	-17	-5	-30	17	-12	-5	-87	35
2015	-33	-91	-34	53	-23	-92	-99	71
2016	-50	-56	-23	43	-35	-57	-69	53
2017	17	43	56	39	12	44	164	73
2018	-24	-11	-11	15	-16	-11	-33	20
2019	-38	-9	-17	22	-27	-9	-51	29
2020	0	0	0	0	0	0	0	0

} Historic - Current

} (Historic - Current) / Current