

Northern CVP Water Temperature Report

May - 2025

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— BUREAU OF —
RECLAMATION

All Data in this Report is Preliminary and Subject to Change

D A T E	Mean Daily Water Temperatures (°F)													Mean Daily Release (CFS)			Mean Daily Air Temperatures (°F)		
	TCD ¹	SHD	SPP ¹	KWK	SAC	CCR ²	BSF	BND	RDB	IGO	LWS	DGC	NFH	Shasta Generation	Spring Creek P.P.	Keswick Total	RDD	BSF	RDB
Apr	50.9	49.5	50.2	50.7	51.2	51.8	53.9	55.1	56.0	51.4	46.3	48.1	49.1	6309	404	6829	62.4	59.5	60.9
05/01	52.9	51.9	51.3	52.9	53.1	53.8	55.4	56.6	57.8	53.1	46.6	48.8	50.6	10333	628	10997	70.5	67.3	67.3
05/02	52.7	51.8	50.6	52.9	53.2	53.9	55.7	57.1	58.3	53.3	46.8	49.0	50.9	10928	628	10997	68.0	65.6	65.0
05/03	52.9	? 51.6	51.6	? 52.8	53.3	53.9	56.0	57.3	58.6	53.4	46.7	49.3	50.9	9657	427	9797	68.5	66.9	65.2
05/04	54.4	? 52.6	50.8	53.0	53.3	53.9	55.7	56.8	58.0	52.6	47.3	49.1	50.3	8694	243	8602	68.5	66.2	66.0
05/05	53.5	? 52.1	51.5	53.9	54.0	54.7	56.2	56.8	57.8	52.5	47.3	49.3	50.8	7811	1027	8082	74.0	71.4	71.4
05/06	52.8	51.0	51.7	53.6	54.1	55.0	57.1	58.2	59.1	? 53.2	47.0	49.4	51.4	6785	1469	8083	75.0	72.3	72.5
05/07	52.7	? 51.1	51.3	53.0	53.6	54.4	56.8	58.4	59.6	53.5	46.8	49.5	51.6	7257	468	8079	66.5	63.9	65.0
05/08	52.6	? 51.3	51.7	52.9	53.5	54.3	56.9	58.4	59.7	53.9	47.2	49.7	51.9	7028	958	8091	71.5	67.3	68.6
05/09	54.0	53.2	51.7	53.1	53.2	53.7	55.8	57.9	59.7	53.8	47.3	50.2	52.4	13332	975	13788	74.5	69.4	71.7
05/10	53.9	53.1	51.8	53.7	53.9	54.5	56.0	57.1	58.2	54.3	47.1	50.3	52.5	12906	1018	14033	74.5	70.8	73.5
05/11	53.5	52.8	52.1	53.6	53.8	54.3	55.9	57.1	58.4	52.9	47.2	50.2	51.6	13535	1068	14021	69.5	66.8	66.3
05/12	53.0	52.2	52.0	52.8	53.0	53.2	54.4	55.2	56.4	51.9	47.5	49.6	50.6	12596	1317	13969	56.5	55.8	54.8
05/13	53.7	53.1	52.2	52.6	52.9	53.3	54.7	55.4	56.0	52.7	47.2	49.5	51.0	10261	805	12302	61.5	59.7	60.0
05/14	52.6	? 52.3	52.2	53.4	53.6	54.1	55.6	56.4	57.2	53.0	46.9	49.7	51.7	7773	1458	10676	64.0	62.8	63.9
05/15	50.9	? 50.1	52.4	52.5	53.3	54.1	56.2	57.2	58.2	52.5	47.1	49.8	51.9	7695	1601	9292	71.0	66.3	67.6
05/16	50.9	50.0	52.4	51.4	52.3	52.9	55.6	57.4	59.3	51.9	47.1	50.2	52.7	8898	949	9146	74.5	72.5	71.5
05/17	51.9	? 50.5	52.5	51.2	51.9	52.4	54.9	56.8	58.4	51.7	47.1	50.6	53.0	8522	811	8989	72.0	69.2	69.9
05/18	52.4	? 51.1	52.6	52.0	52.4	53.0	54.8	56.0	57.4	? 51.8	47.3	50.4	52.4	7683	832	8966	69.5	66.1	67.1
05/19	50.6	49.7	52.8	52.6	53.1	53.9	55.8	57.1	58.3	52.0	47.5	50.8	53.3	8202	1023	8957	71.0	67.7	69.9
05/20	49.2	48.8	52.8	51.0	51.9	52.3	55.0	56.7	58.3	52.1	47.9	51.0	53.0	7836	756	13868	69.5	66.0	69.1
05/21	50.3	49.6	49.7	49.9	50.5	50.7	52.6	54.1	56.0	53.0	47.8	51.3	53.7	11277	46	14045	79.5	71.0	72.1
05/22	50.3	49.6	52.5	50.4	50.9	51.3	53.1	54.3	55.7	53.5	47.8	51.4	53.8	11150	296	14054	72.0	68.8	73.0
05/23	50.3	49.5	51.5	50.4	50.9	51.3	53.2	54.5	55.9	53.9	48.2	51.8	54.3	11039	99	14028	72.0	68.0	68.3
05/24	50.6	50.0	53.0	50.4	51.0	51.5	53.4	54.8	56.0	54.2	48.5	52.2	54.9	11843	644	12545	73.5	69.2	68.5
05/25	50.5	49.7	52.6	51.0	51.5	52.2	54.3	55.9	57.1	54.5	48.7	52.5	55.1	9355	251	10616	68.5	68.4	67.8
05/26	50.4	49.6	52.8	50.8	51.4	52.1	54.6	56.4	57.9	54.3	48.8	52.8	55.3	9472	400	10239	72.0	69.1	68.0
05/27	50.3	49.7	53.2	51.0	51.6	52.4	54.7	56.4	58.0	54.9	49.1	53.9	55.9	9882	946	10327	77.5	71.8	71.3
05/28	50.3	49.5	53.0	50.9	51.5	52.2	54.9	56.9	58.7	55.7	49.2	53.9	56.7	9758	608	10363	78.0	74.0	74.8
05/29	50.2	49.5	53.1	51.0	51.7	52.4	55.0	56.9	58.7	55.9	49.2	53.6	56.3	9465	792	10346	80.5	77.8	77.3
05/30	50.2	49.4	53.2	50.8	51.4	52.2	54.8	56.9	58.9	56.8	49.5	54.2	57.2	9318	822	10345	85.0	80.2	80.2
05/31	50.3	49.4	53.2	50.9	51.5	52.3	55.0	57.1	? 59.0	57.0	49.5	54.8	57.8	9458	790	10128	87.0	81.2	82.0
May	51.8	50.9	52.1	52.0	52.5	53.1	55.2	56.6	57.9	53.4	47.7	50.8	52.9	9676	779	10921	71.6	68.4	68.9
														Total CFS	299749	24155	337771		
														Total AF	594540	47910	669955		

Legend

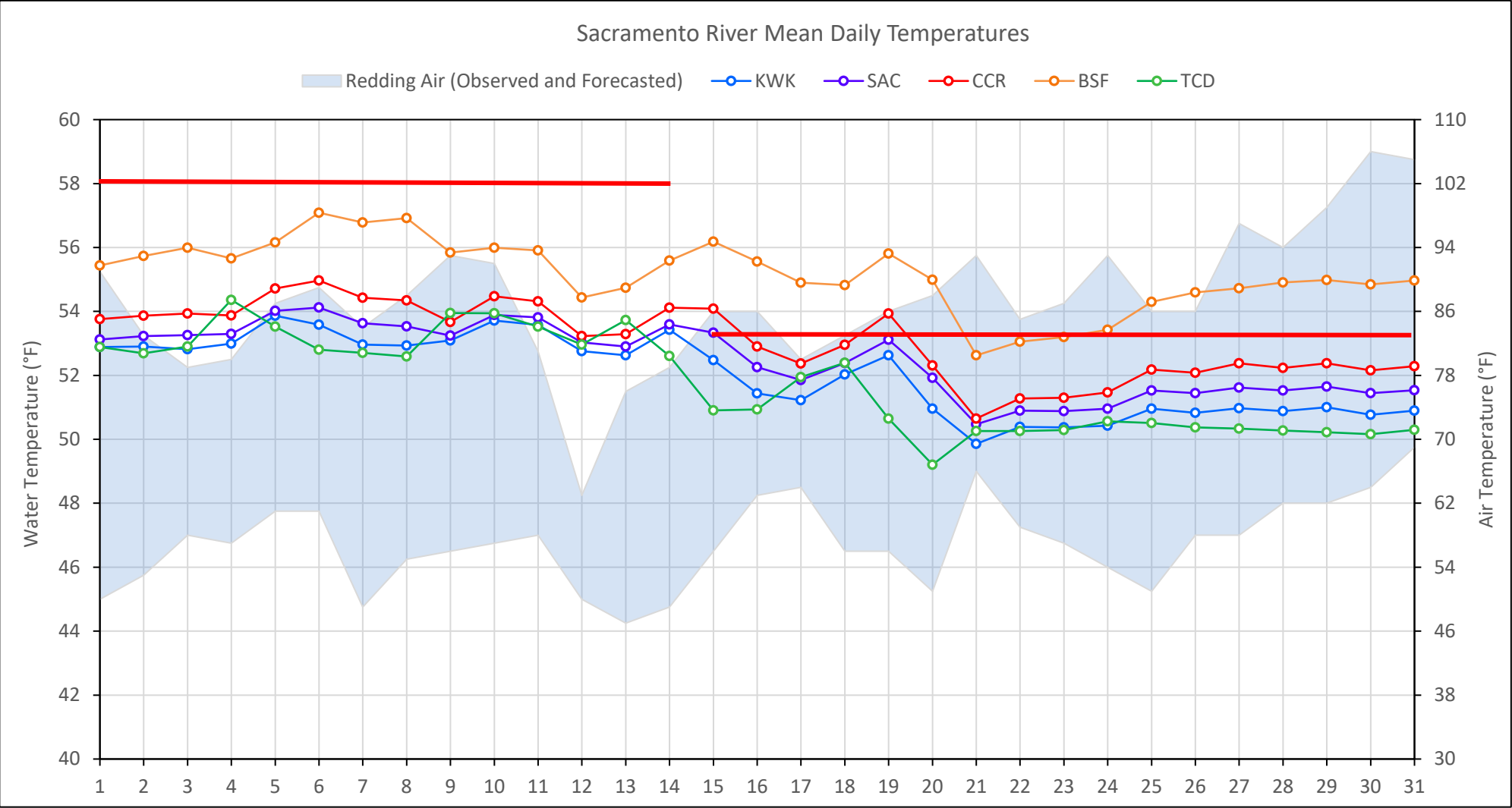
Notes

- ? = 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

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 Clear Creek River control point (see page 3 for more details)



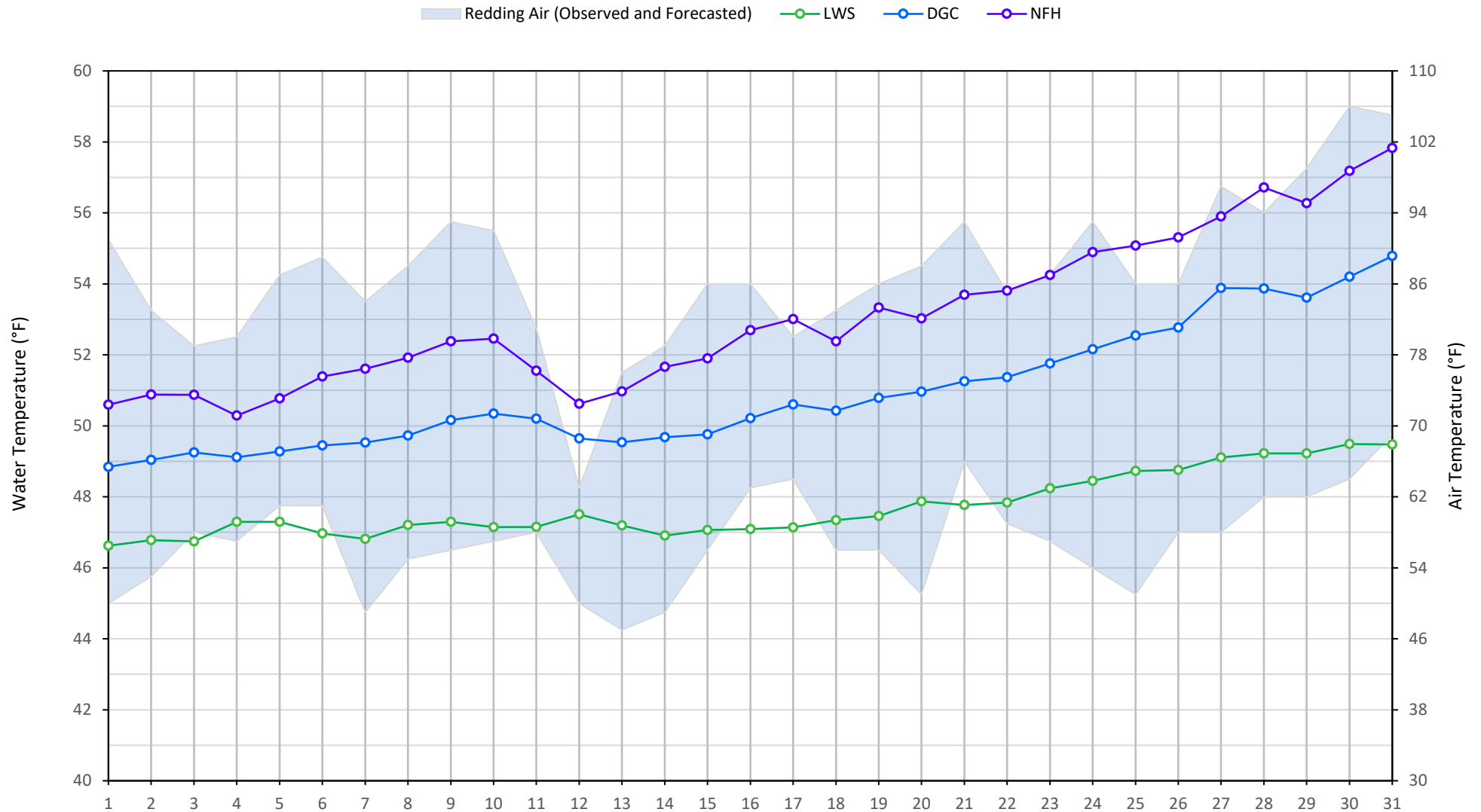
Station Details			
Code	Body of Water	Location ¹	CDEC Link
TCD	N/A	Shasta Power Plant	N/A
SHD	Sacramento River	0.3 miles downstream of Shasta Power Plant	Click Here
SPP	N/A	Spring Creek Power Plant	N/A
KWK	Sacramento River	0.8 miles downstream of Keswick Dam	Click Here
SAC	Sacramento River	4.8 miles 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

Water Right Temperature Control Points				
River	Point	Temp. (°F)	Begin Date	End Date
Sacramento	CCR	58.0	3/1/2025	5/14/2025
Sacramento	CCR	53.5	5/15/2025	TBD

Notes

¹ Distances are approximate

Trinity River Mean Daily Temperatures



Station Details

Code	Body of Water	Location ¹	CDEC Link
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
Trinity	DGC	56	Sep-15	Oct-01
Trinity	NFH	56	Oct-01	Dec-31

Notes

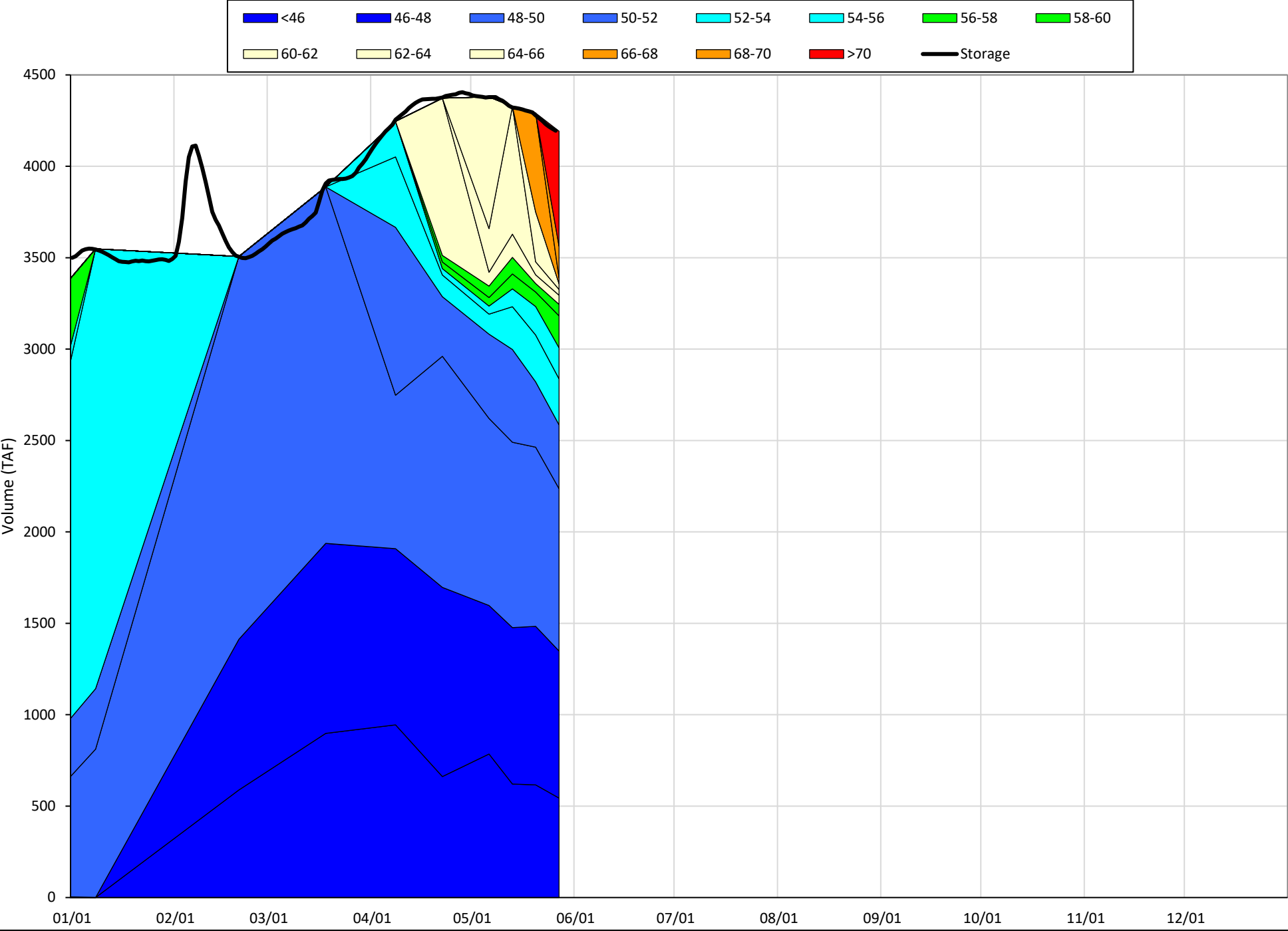
¹ Distances are approximate

Shasta Lake Isothermobaths & Cold Water Pool Statistics

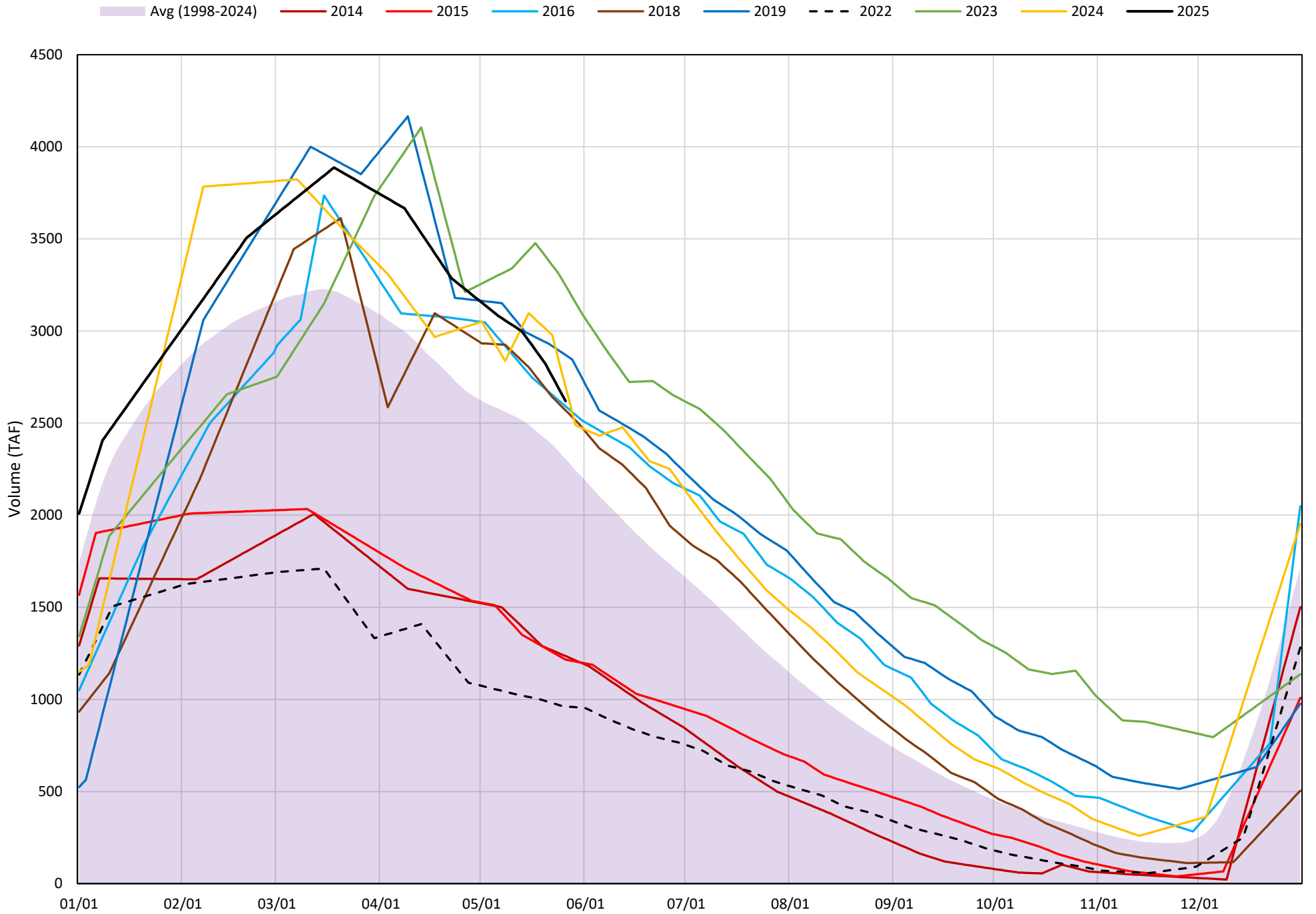
2025

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13	- Shasta Lake Cold Water Pool Comparison by Year

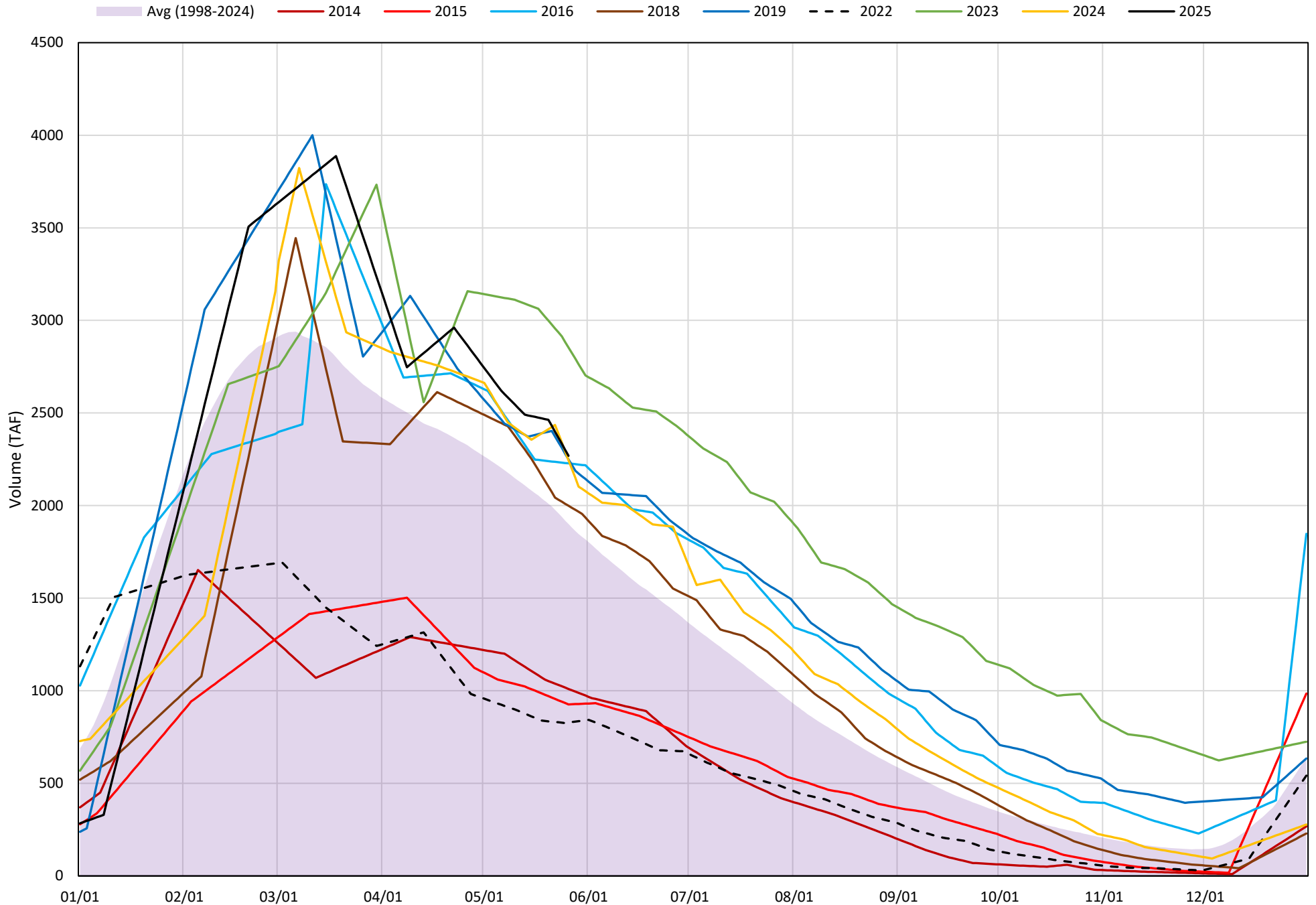
Shasta Lake Isothermobaths Plot - 2025



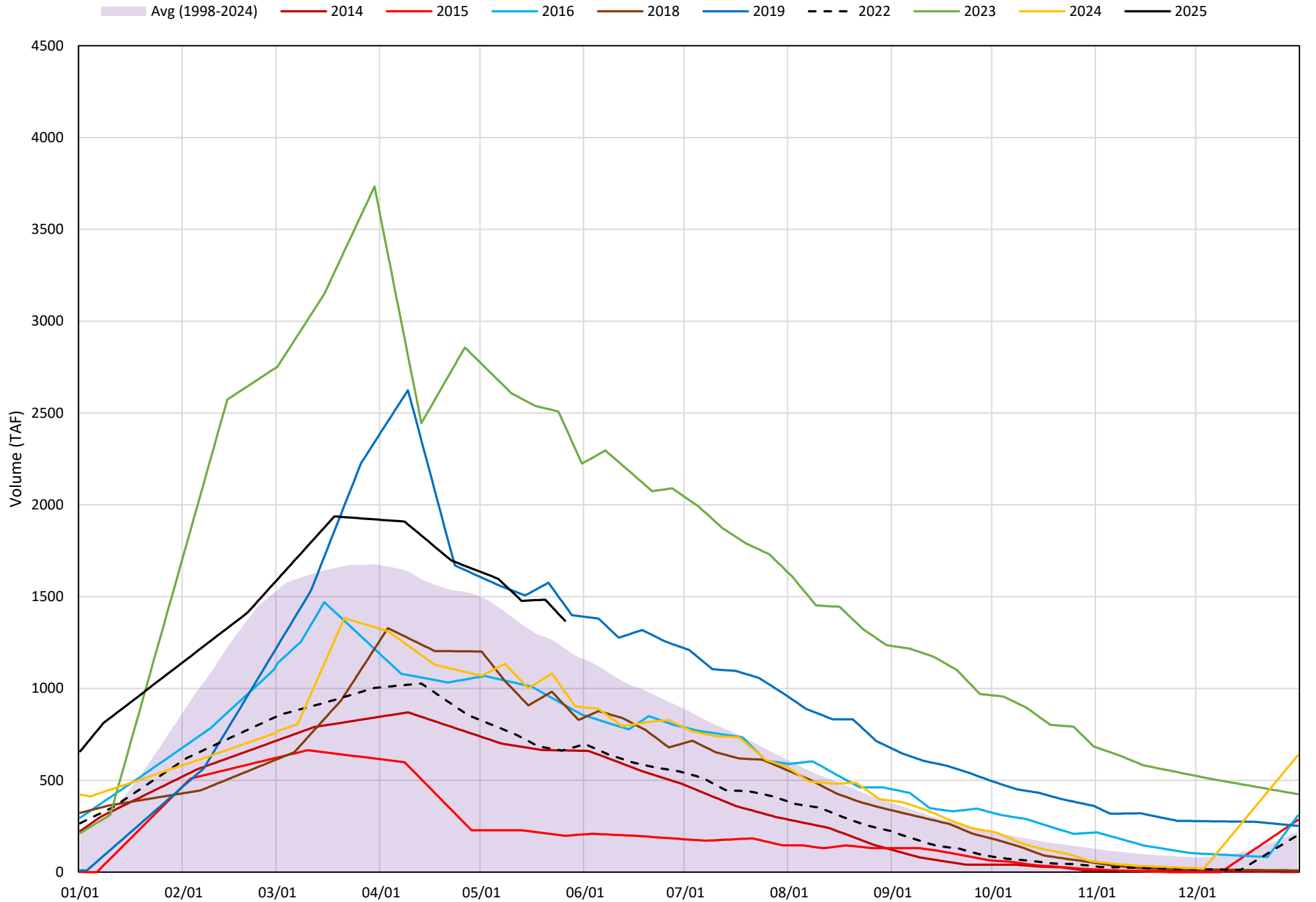
Shasta Lake Cold Water Pool Volume ≤52°F



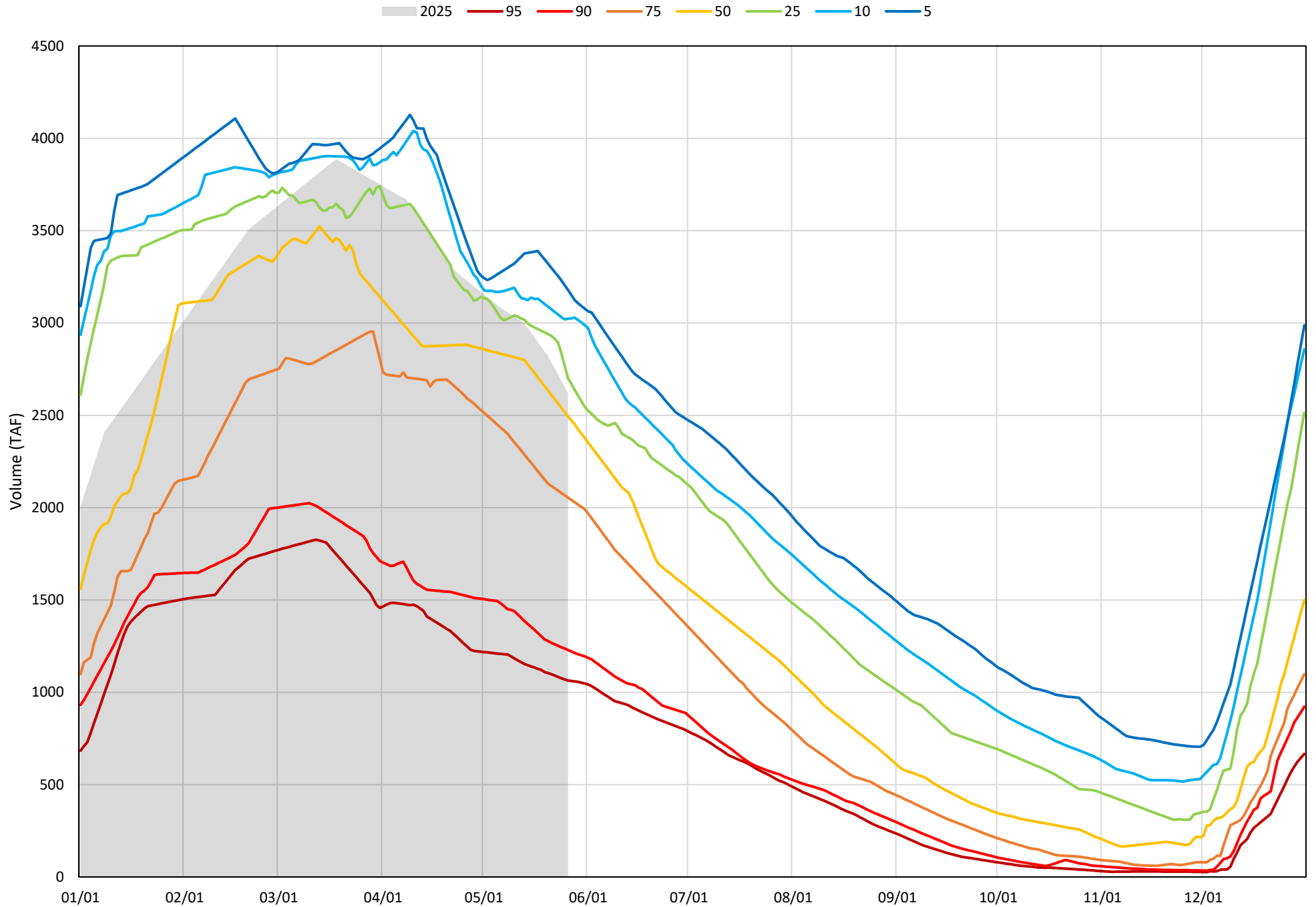
Shasta Lake Cold Water Pool Volume ≤50°F



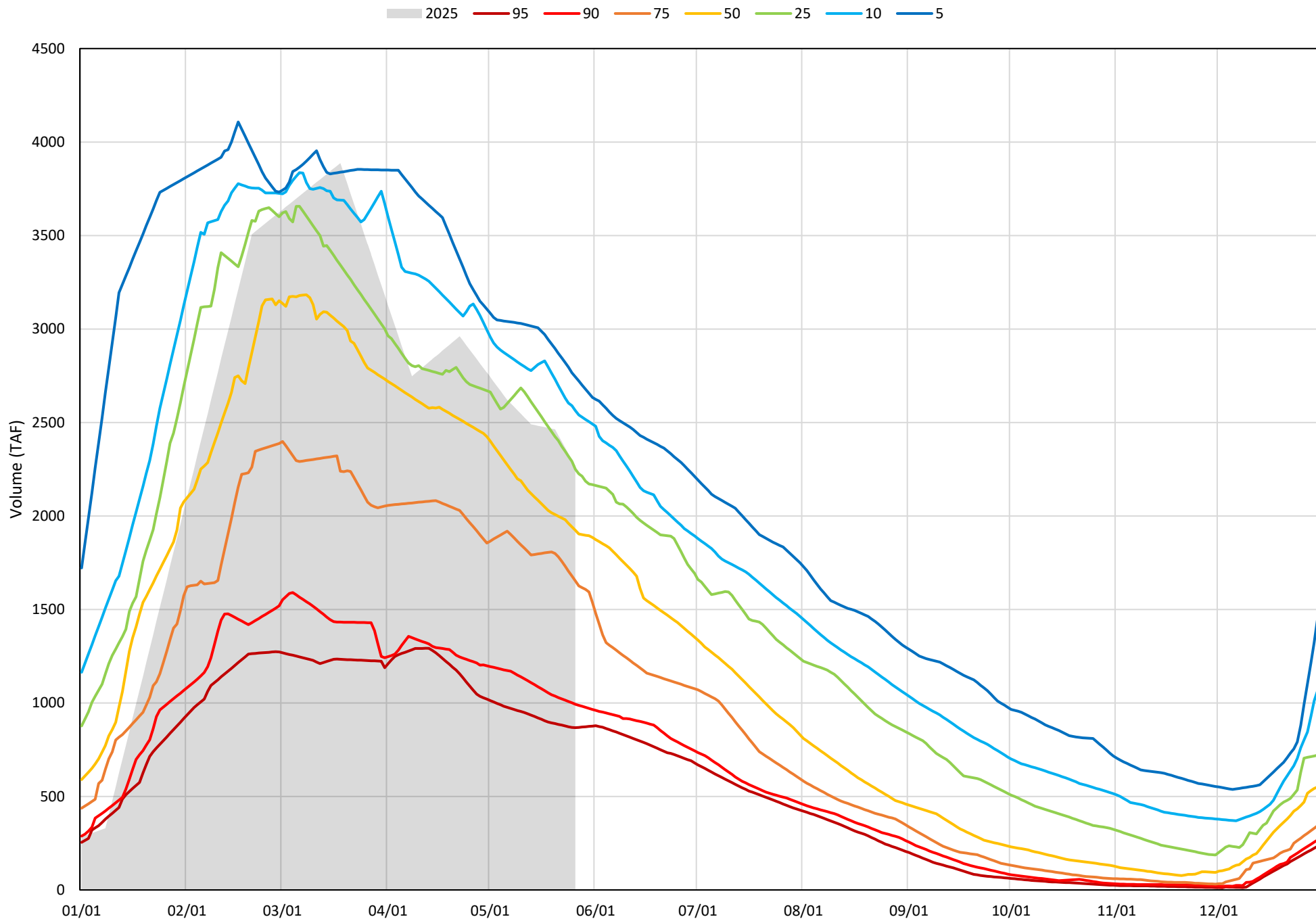
Shasta Lake Cold Water Pool Volume ≤48°F



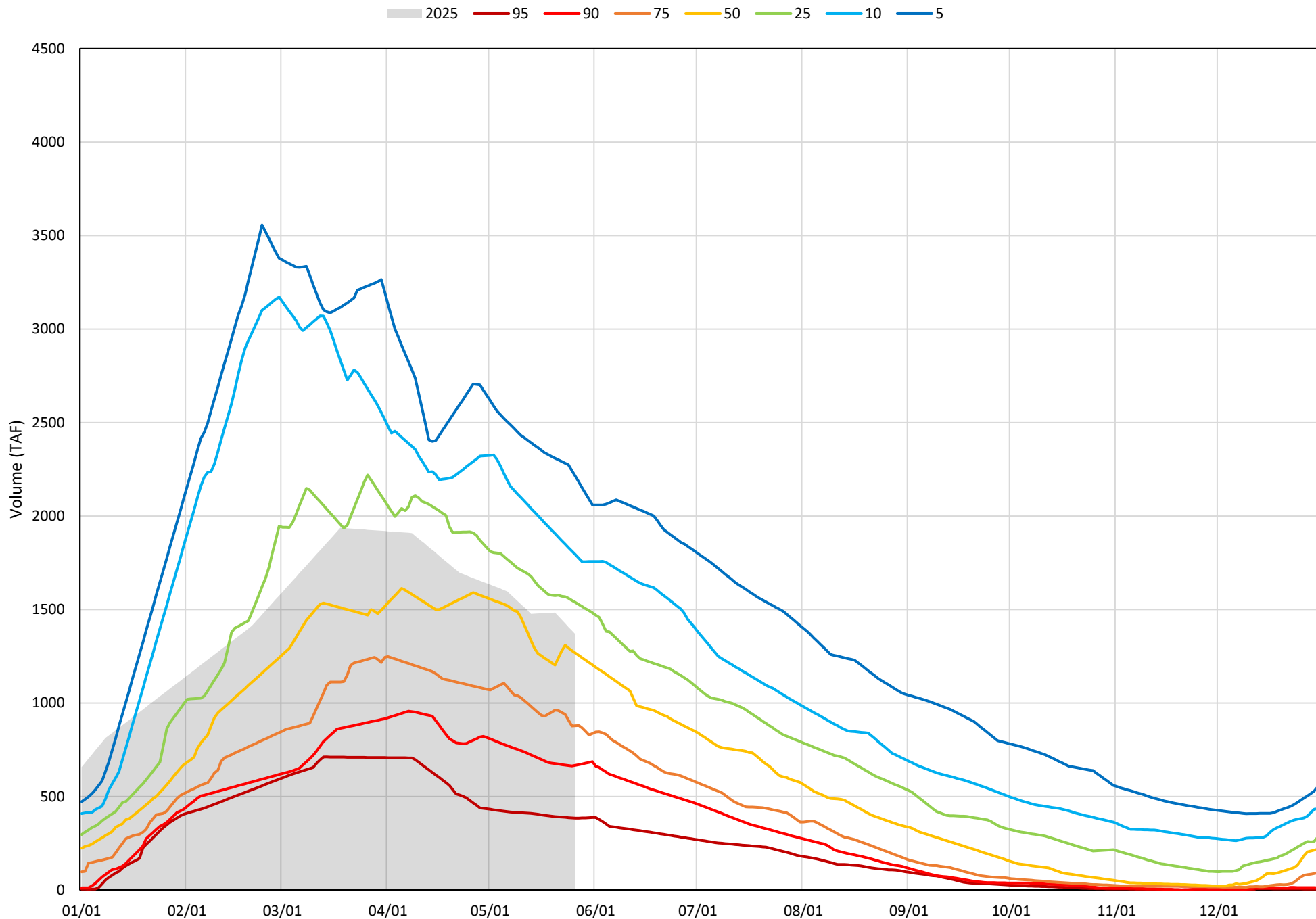
Shasta Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances (1998-2024)



Shasta Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$ - Percent Exceedances (1998-2024)



Shasta Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$ - Percent Exceedances (1998-2024)



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

May-27 2025	Δ TAF				% Δ			
	$\leq 52^\circ$	$\leq 50^\circ$	$\leq 48^\circ$	Abs. Avg.	$\leq 52^\circ$	$\leq 50^\circ$	$\leq 48^\circ$	Abs. Avg.
1998	453	277	258	329	17	12	19	16
1999	-72	-27	401	167	-3	-1	29	11
2000	-149	-524	-392	355	-6	-23	-29	19
2001	-453	-346	103	301	-17	-15	8	13
2002	-126	-119	170	138	-5	-5	12	7
2003	-40	-445	-521	336	-2	-20	-38	20
2004	-505	-501	-101	369	-19	-22	-7	16
2005	-321	-576	-489	462	-12	-25	-36	24
2006	-34	-3	88	42	-1	0	6	3
2007	-433	-329	51	271	-17	-15	4	12
2008	-1042	-896	-240	726	-40	-40	-18	32
2009	-926	-889	-268	694	-35	-39	-20	31
2010	366	291	194	284	14	13	14	14
2011	390	311	522	408	15	14	38	22
2012	212	254	220	229	8	11	16	12
2013	-566	-431	0	332	-22	-19	0	14
2014	-1385	-1259	-705	1116	-53	-55	-52	53
2015	-1404	-1342	-1170	1306	-54	-59	-86	66
2016	-29	-41	-460	177	-1	-2	-34	12
2017	80	-363	-48	164	3	-16	-3	8
2018	-51	-270	-462	261	-2	-12	-34	16
2019	250	-19	82	117	10	-1	6	5
2020	-378	-616	-648	547	-14	-27	-47	30
2021	-1387	-1203	-656	1082	-53	-53	-48	51
2022	-1658	-1440	-701	1266	-63	-63	-51	59
2023	627	585	1059	757	24	26	77	42
2024	78	-24	-388	163	3	-1	-28	11
2025	0	0	0	0	0	0	0	0

Historical - Current

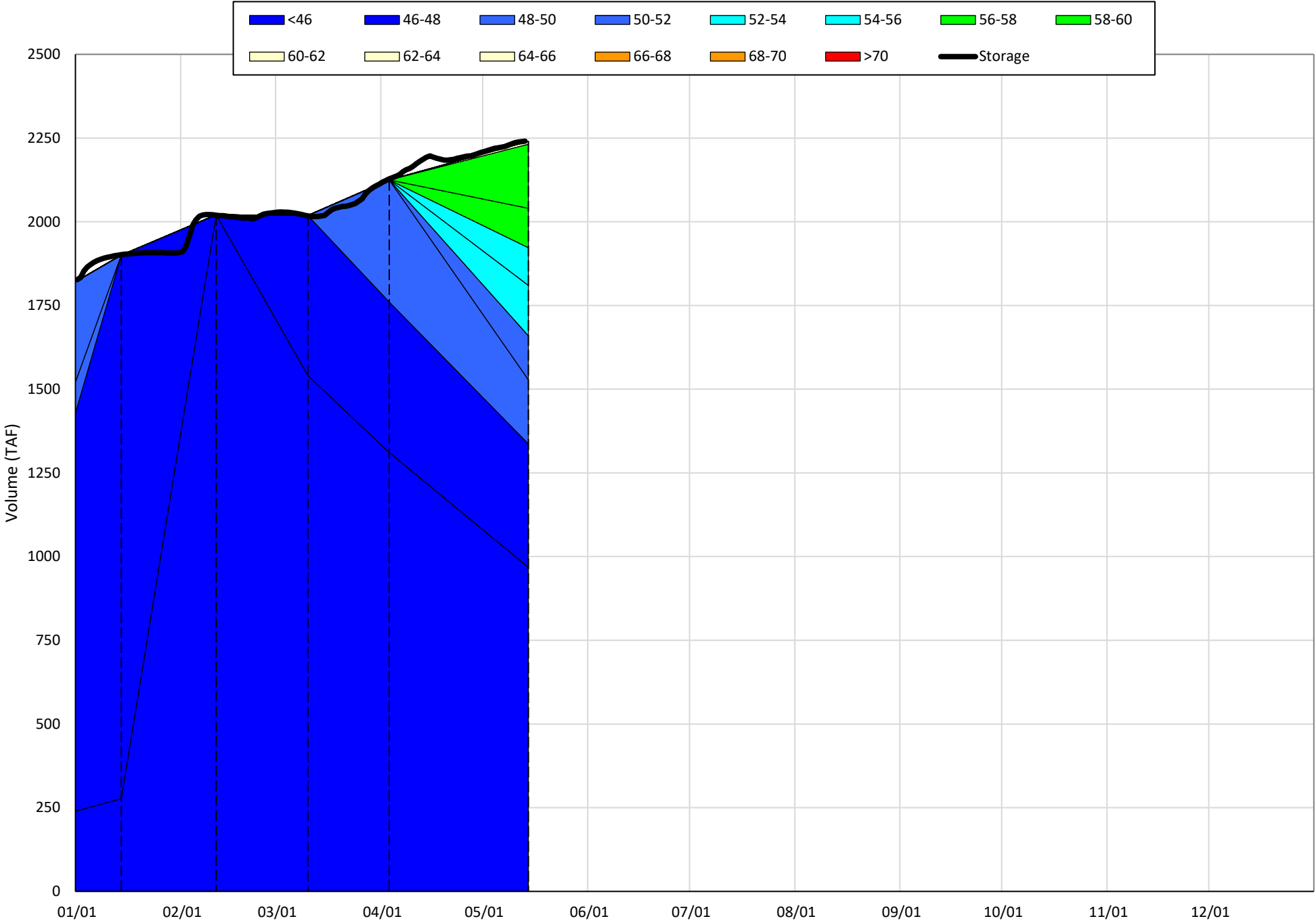
(Historical - Current) / Current

Trinity Lake Isothermobaths & Cold Water Pool Statistics

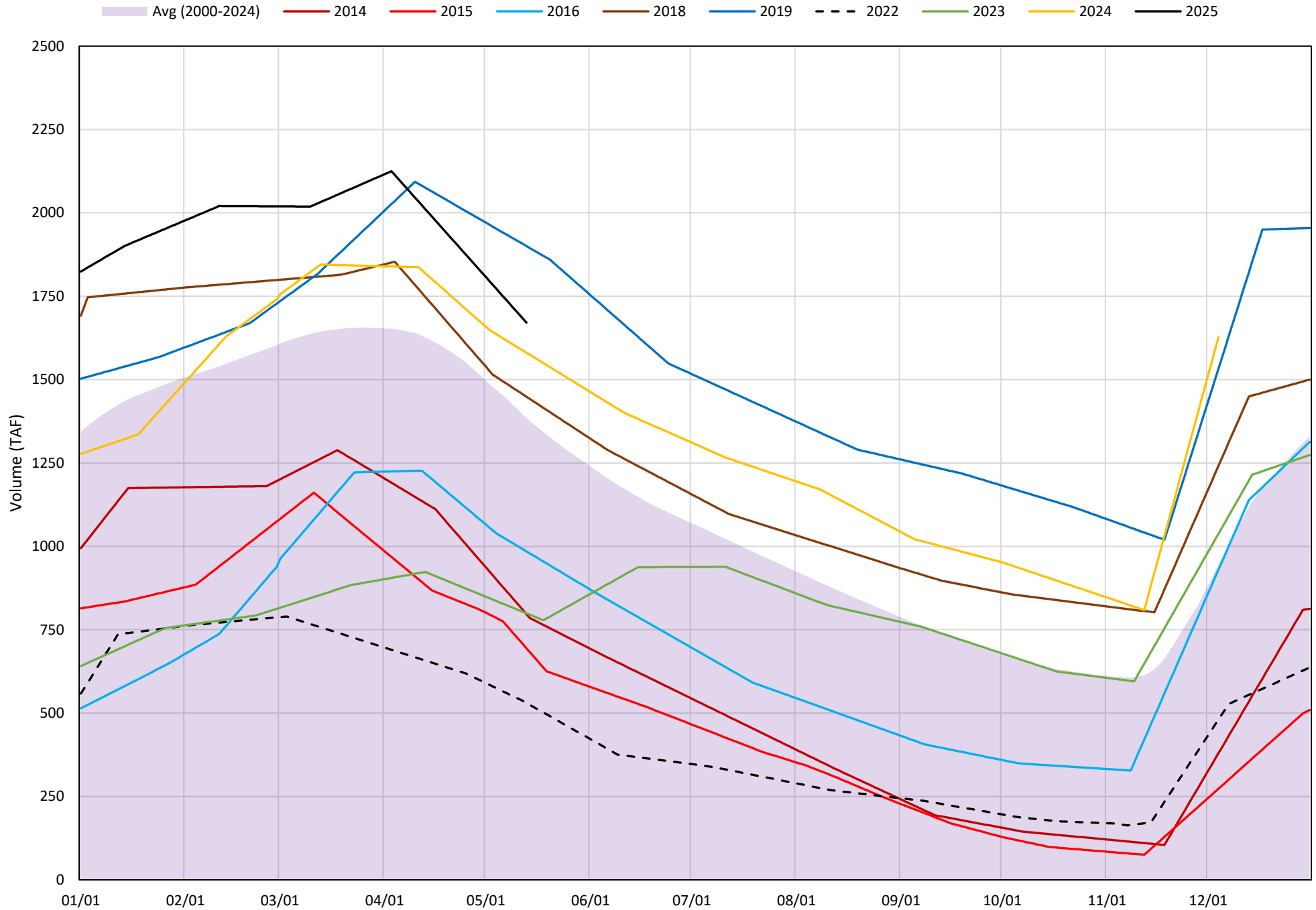
2025

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21	- Trinity Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$ - Percent Exceedances
22	- Trinity Lake Cold Water Pool Comparison by Year

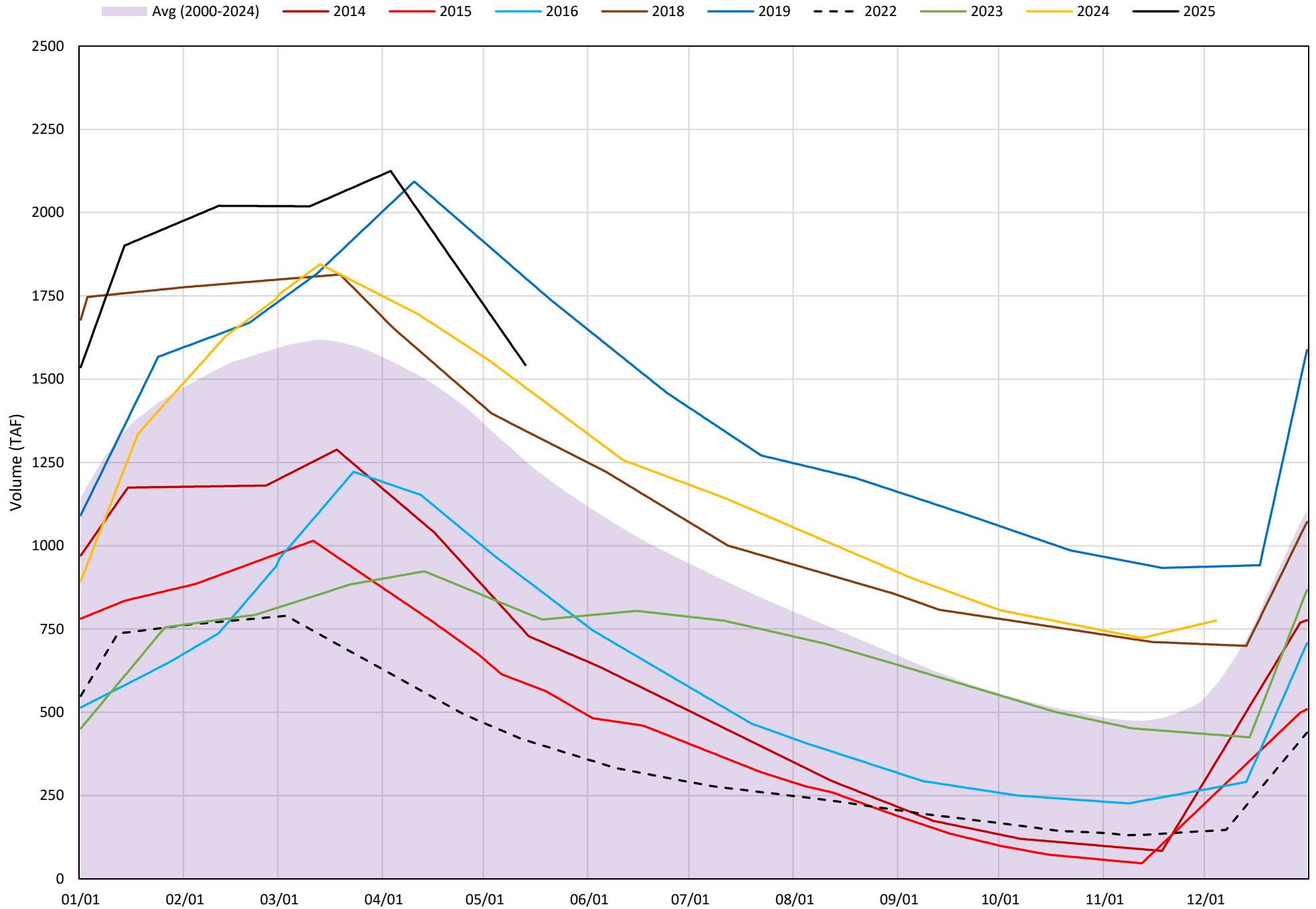
Trinity Lake Isothermobaths Plot - 2025



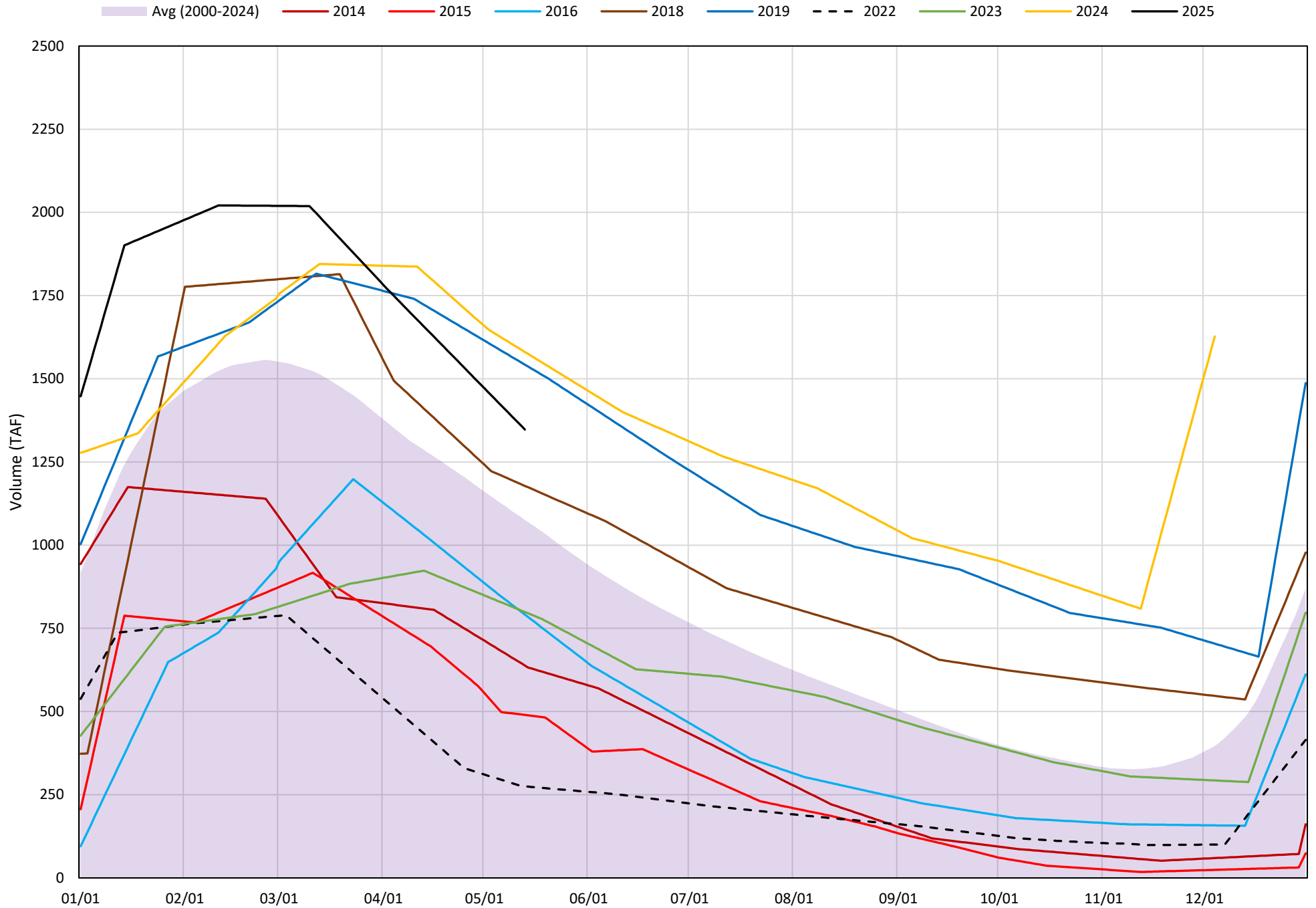
Trinity Lake Cold Water Pool Volume ≤52°F



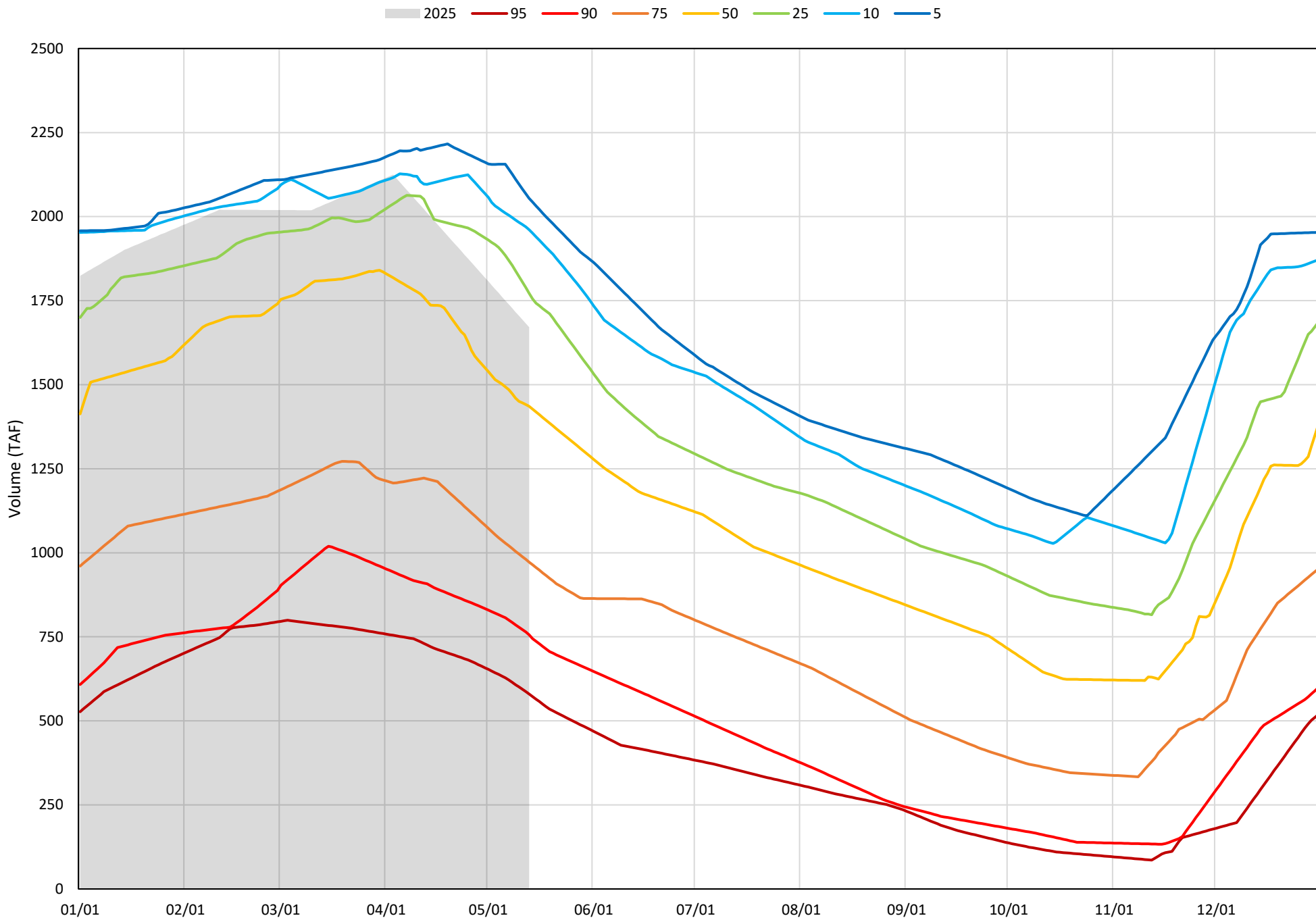
Trinity Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$



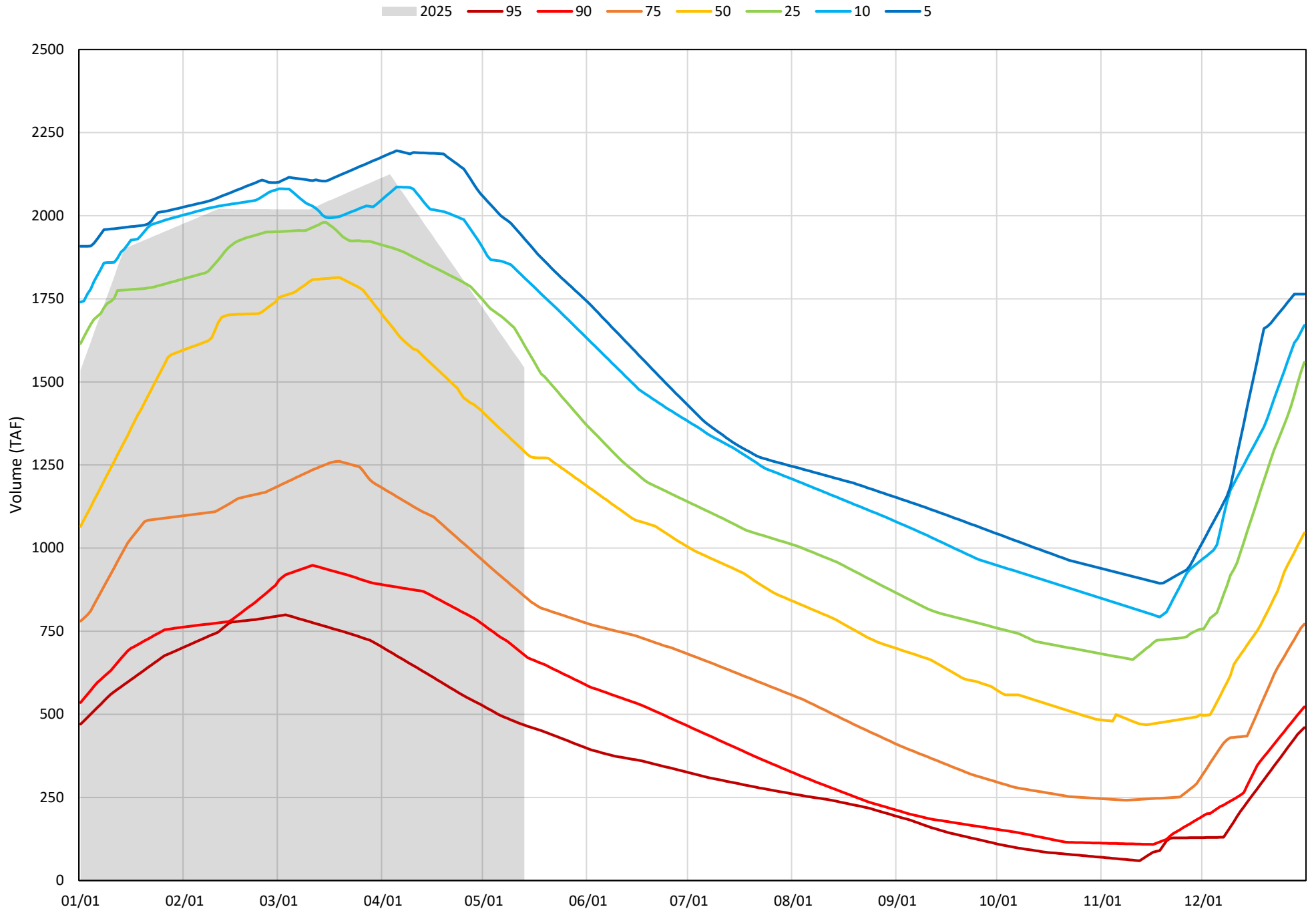
Trinity Lake Cold Water Pool Volume ≤48°F



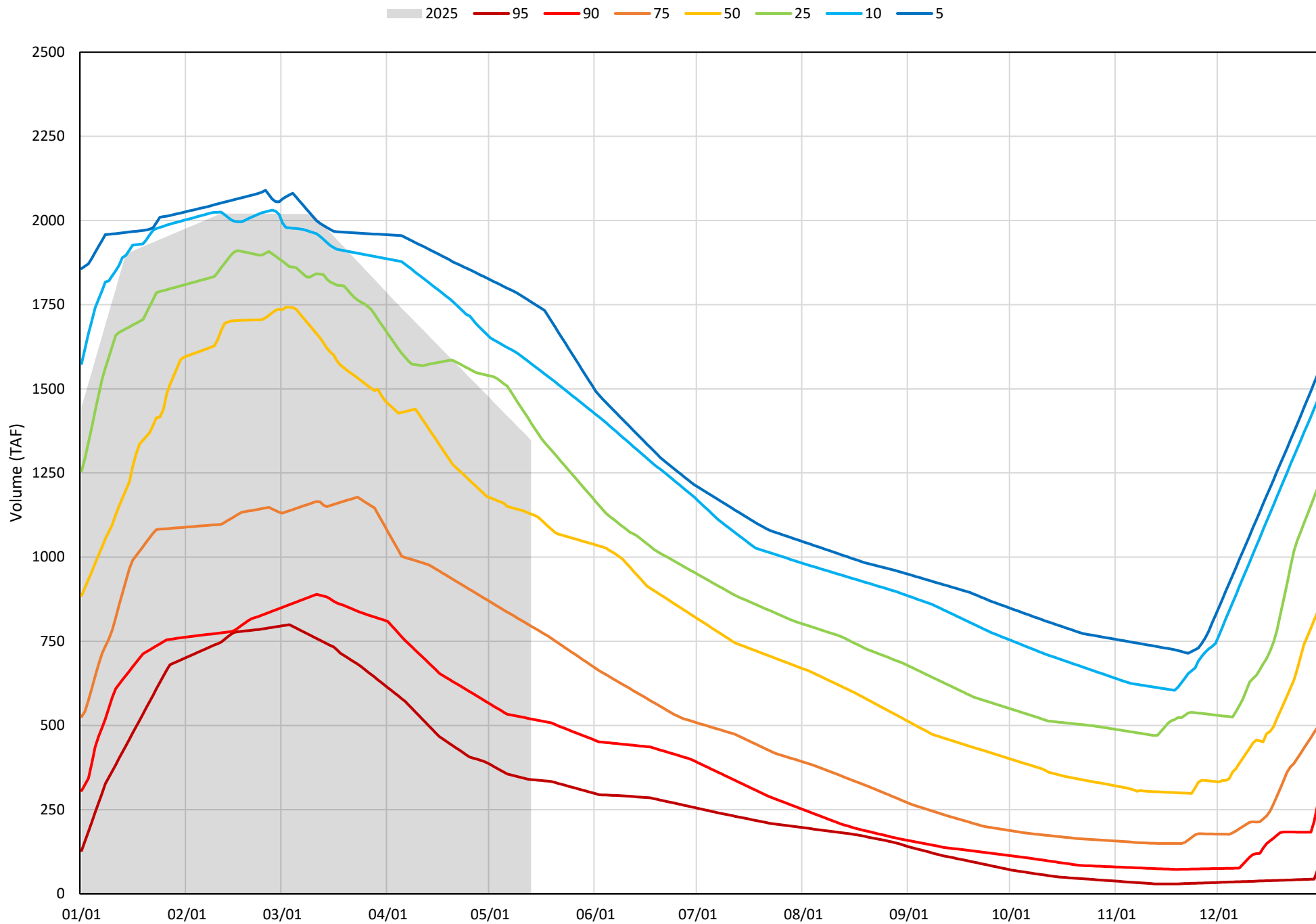
Trinity Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances (2000-2024)



Trinity Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$ - Percent Exceedances (2000-2024)



Trinity Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$ - Percent Exceedances (2000-2024)



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

May-14 2025	Δ TAF				% Δ			
	$\leq 52^\circ$	$\leq 50^\circ$	$\leq 48^\circ$	Abs. Avg.	$\leq 52^\circ$	$\leq 50^\circ$	$\leq 48^\circ$	Abs. Avg.
2000	68	64	34	56	4	4	3	4
2001	-234	-213	-219	222	-14	-14	-16	15
2002	-235	-221	-142	199	-14	-14	-11	13
2003	381	72	69	174	23	5	5	11
2004	40	-28	-71	46	2	-2	-5	3
2005	-95	-271	-440	269	-6	-18	-33	19
2006	384	432	469	428	23	28	35	29
2007	-269	-332	-255	285	-16	-22	-19	19
2008	-490	-515	-530	512	-29	-33	-39	34
2009	-711	-731	-808	750	-43	-47	-60	50
2010	-356	-366	-481	401	-21	-24	-36	27
2011	151	117	161	143	9	8	12	10
2012	189	286	276	250	11	19	21	17
2013	-342	-307	-308	319	-20	-20	-23	21
2014	-874	-803	-709	795	-52	-52	-53	52
2015	-976	-956	-858	930	-58	-62	-64	61
2016	-686	-644	-556	629	-41	-42	-41	41
2017	134	107	96	112	8	7	7	7
2018	-222	-197	-169	196	-13	-13	-13	13
2019	229	261	195	228	14	17	14	15
2020	-262	-252	-216	243	-16	-16	-16	16
2021	-853	-779	-715	783	-51	-51	-53	52
2022	-1140	-1126	-1072	1113	-68	-73	-80	74
2023	-872	-744	-548	721	-52	-48	-41	47
2024	-90	-68	11	56	-5	-4	1	4
2025	0	0	0	0	0	0	0	0

Historical - Current

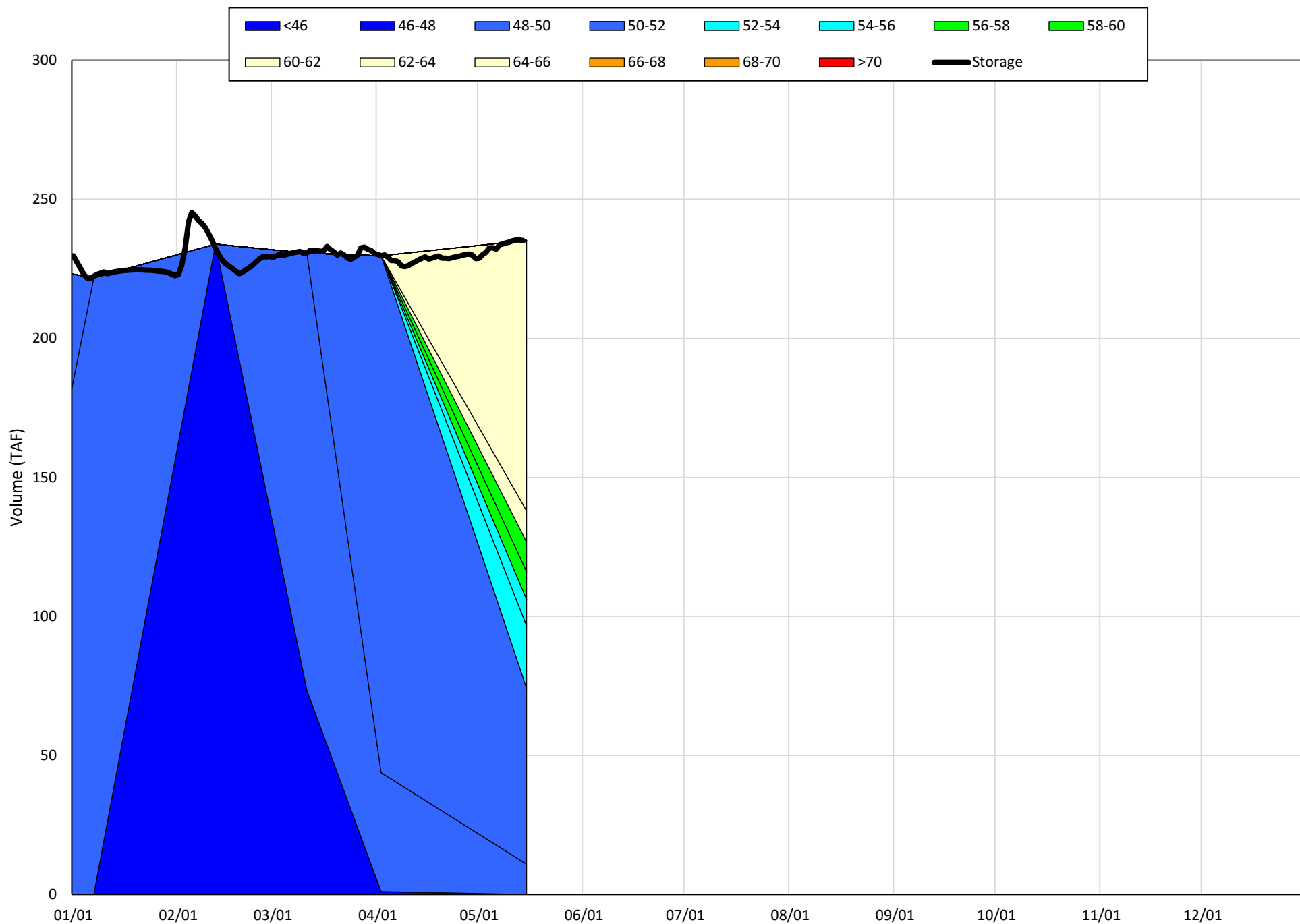
(Historical - Current) / Current

Whiskeytown Lake Isothermobaths & Cold Water Pool Statistics

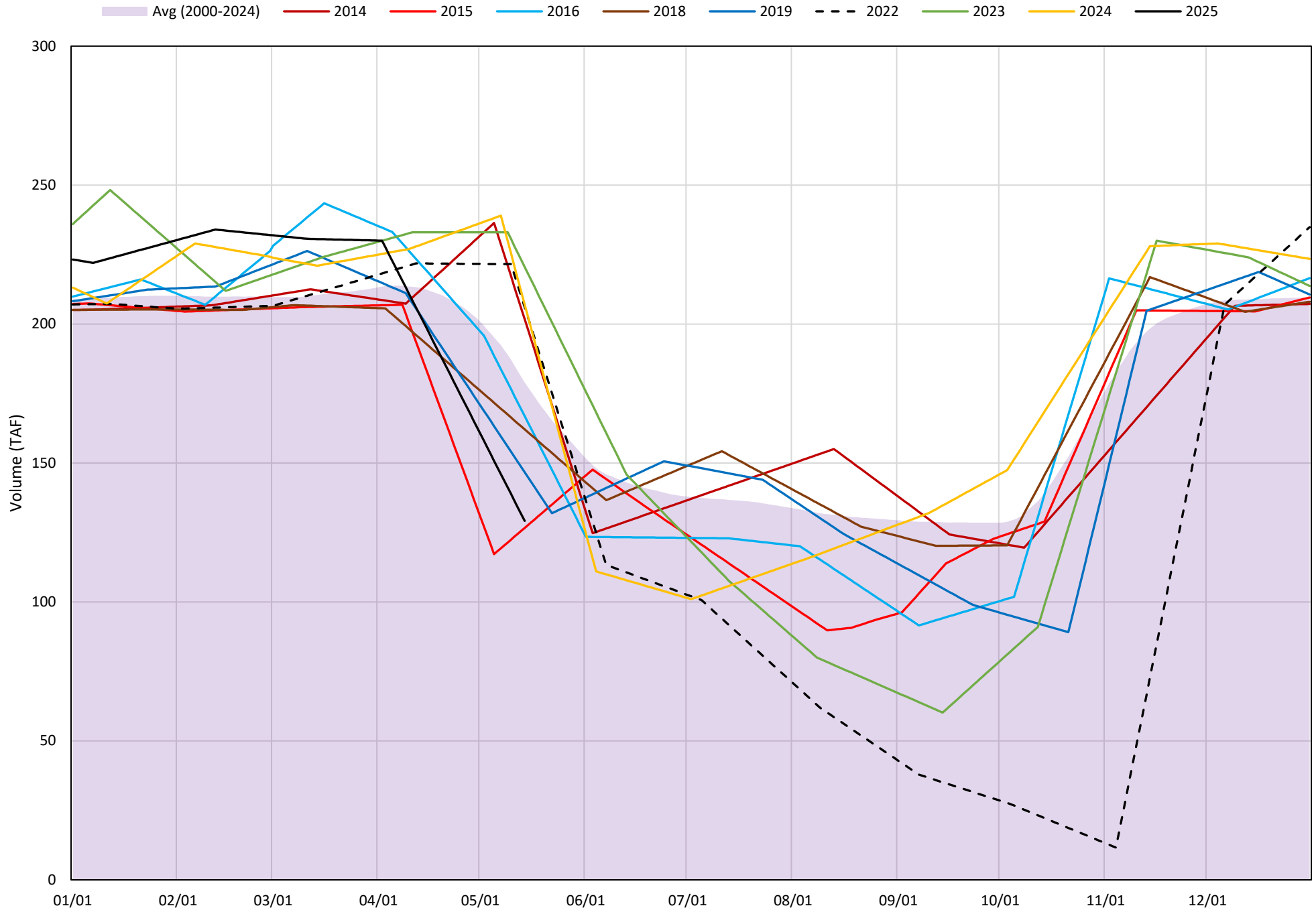
2025

Page	Description
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28	- Whiskeytown Lake Cold Water Pool Volume ≤60°F - Percent Exceedances
29	- Whiskeytown Lake Cold Water Pool Volume ≤58°F - Percent Exceedances
30	- Whiskeytown Lake Cold Water Pool Volume ≤56°F - Percent Exceedances
31	- Whiskeytown Lake Cold Water Pool Comparison by Year

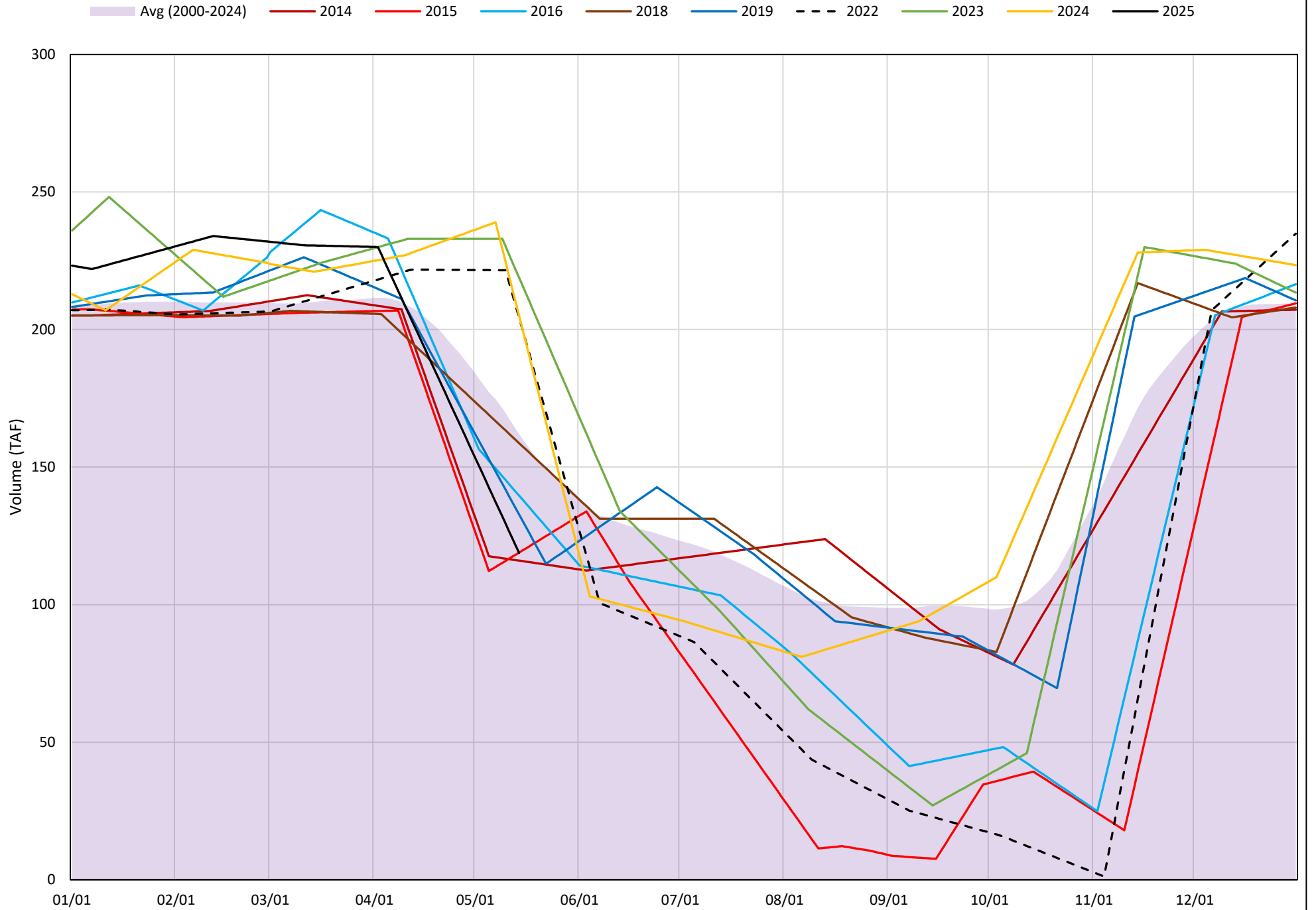
Whiskeytown Lake Isothermobaths Plot - 2025



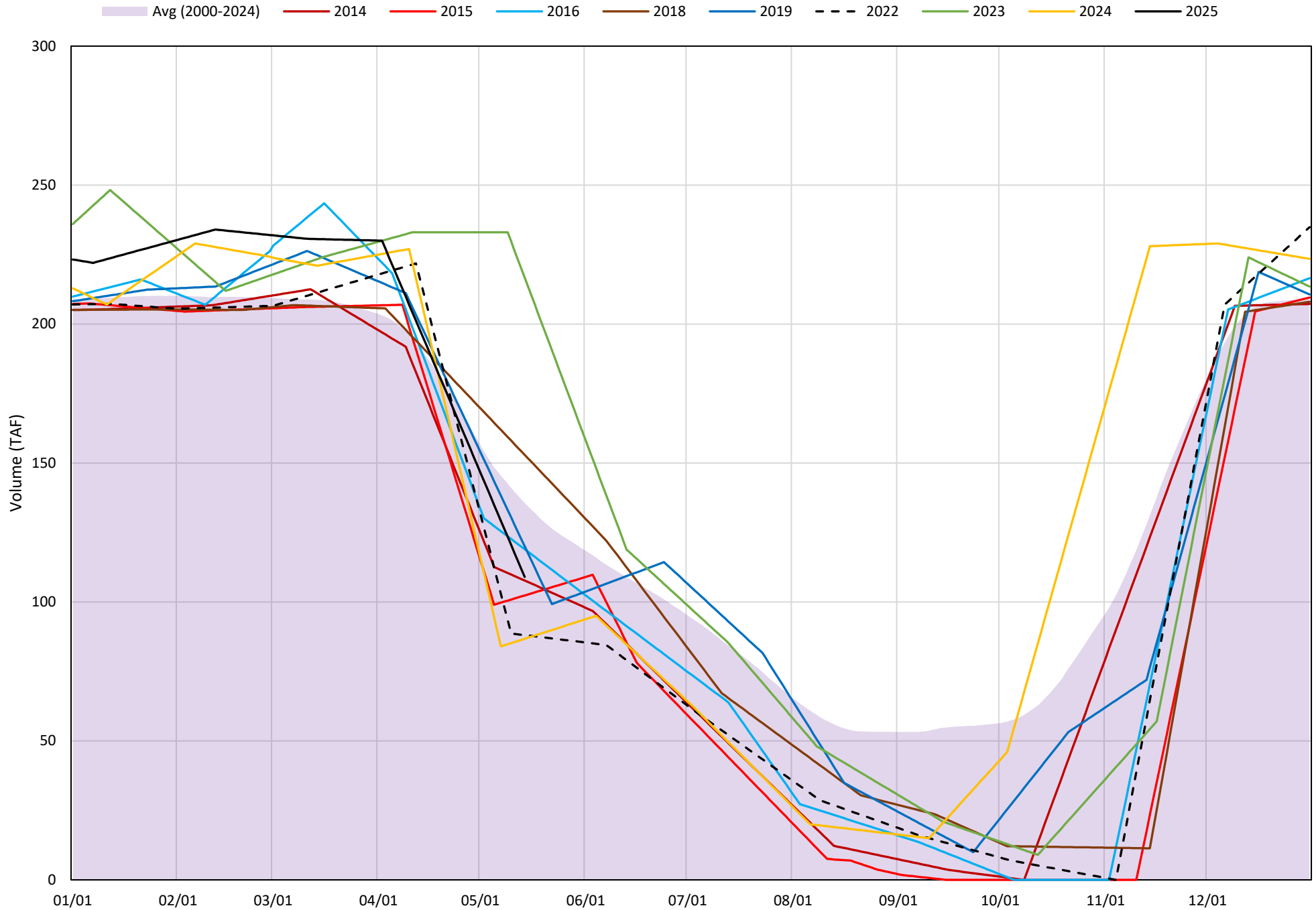
Whiskeytown Lake Cold Water Pool Volume ≤60°F



Whiskeytown Lake Cold Water Pool Volume ≤58°F

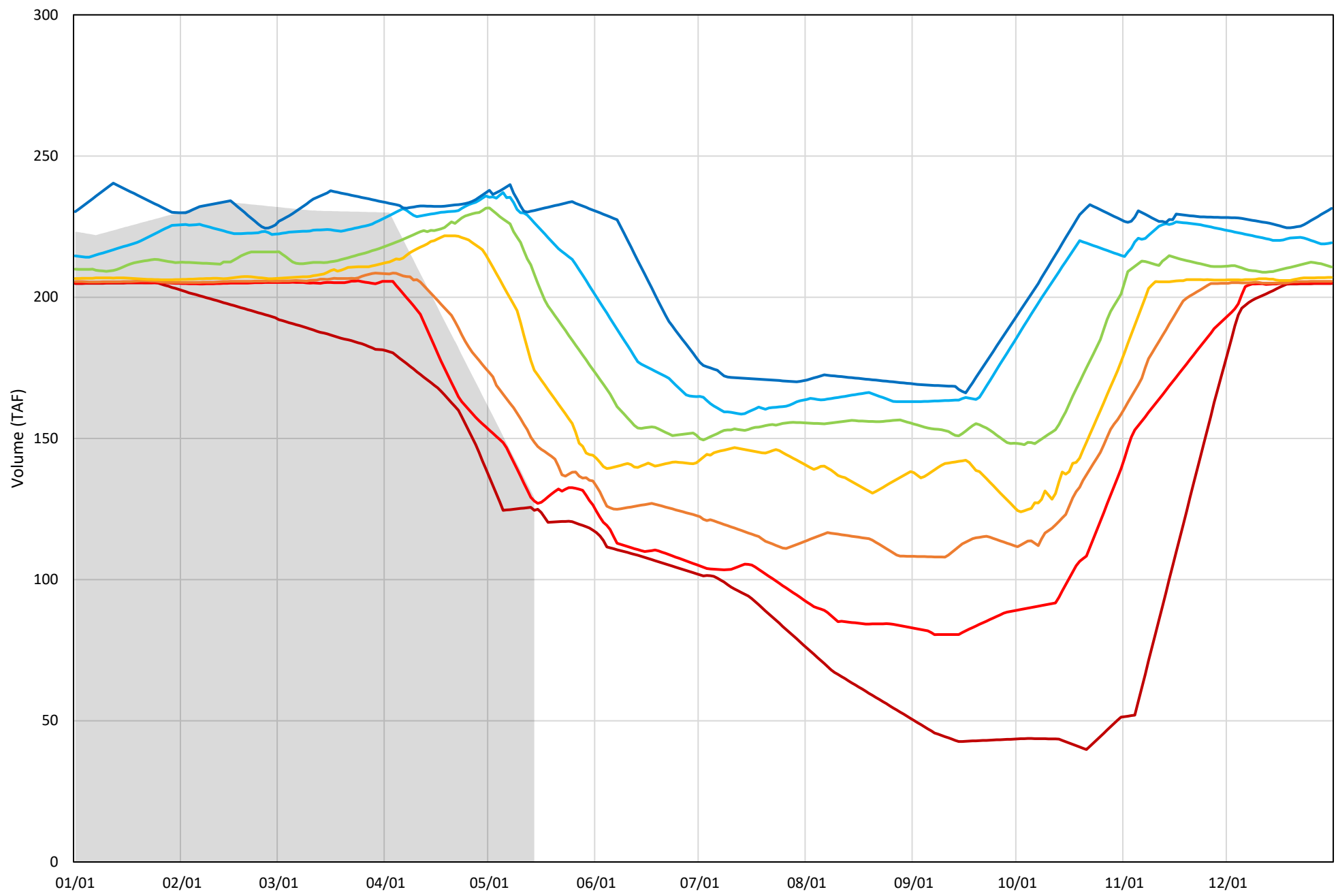


Whiskeytown Lake Cold Water Pool Volume ≤56°F

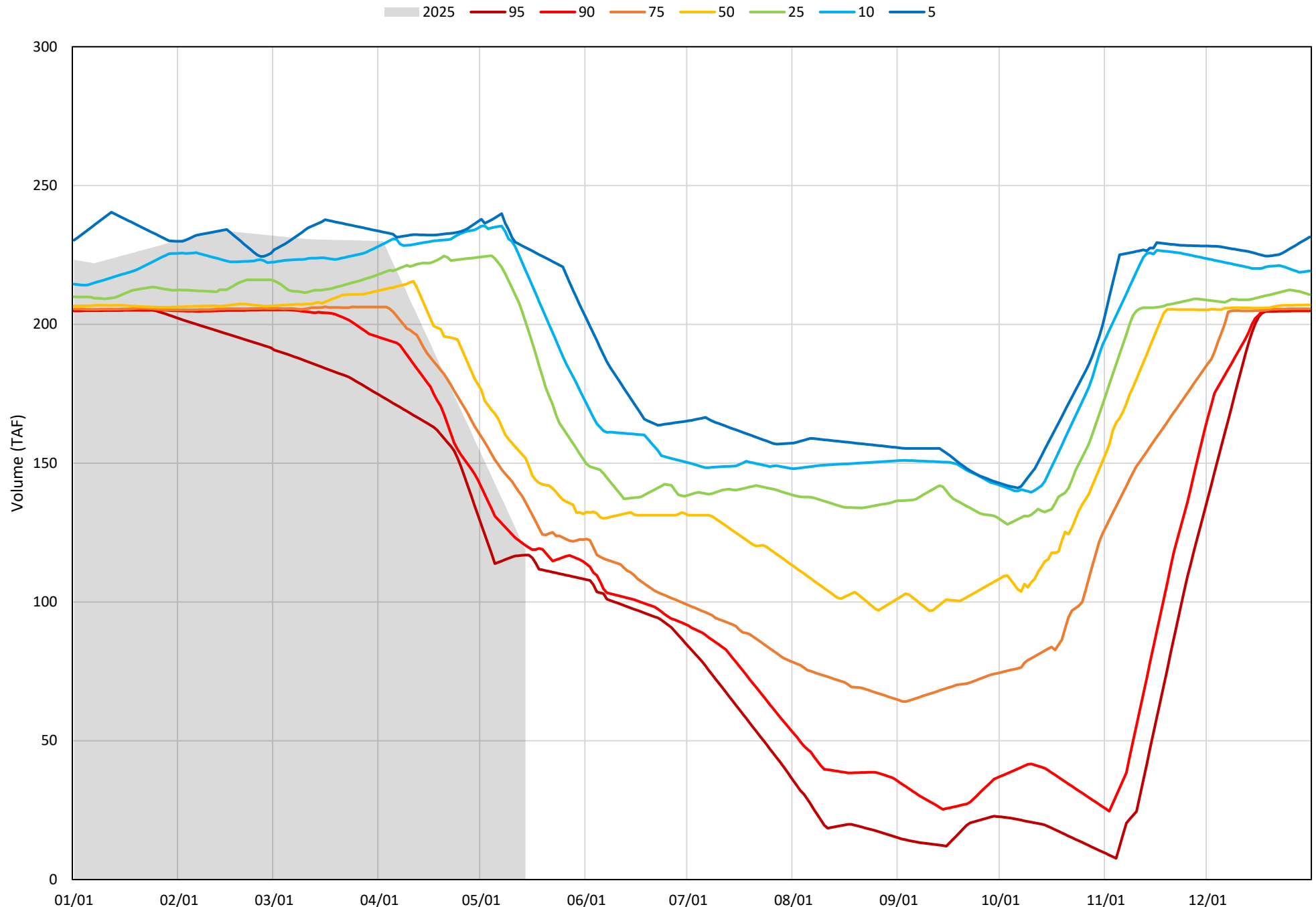


Whiskeytown Lake Cold Water Pool Volume ≤60°F - Percent Exceedances (2000-2024)

2025 95 90 75 50 25 10 5

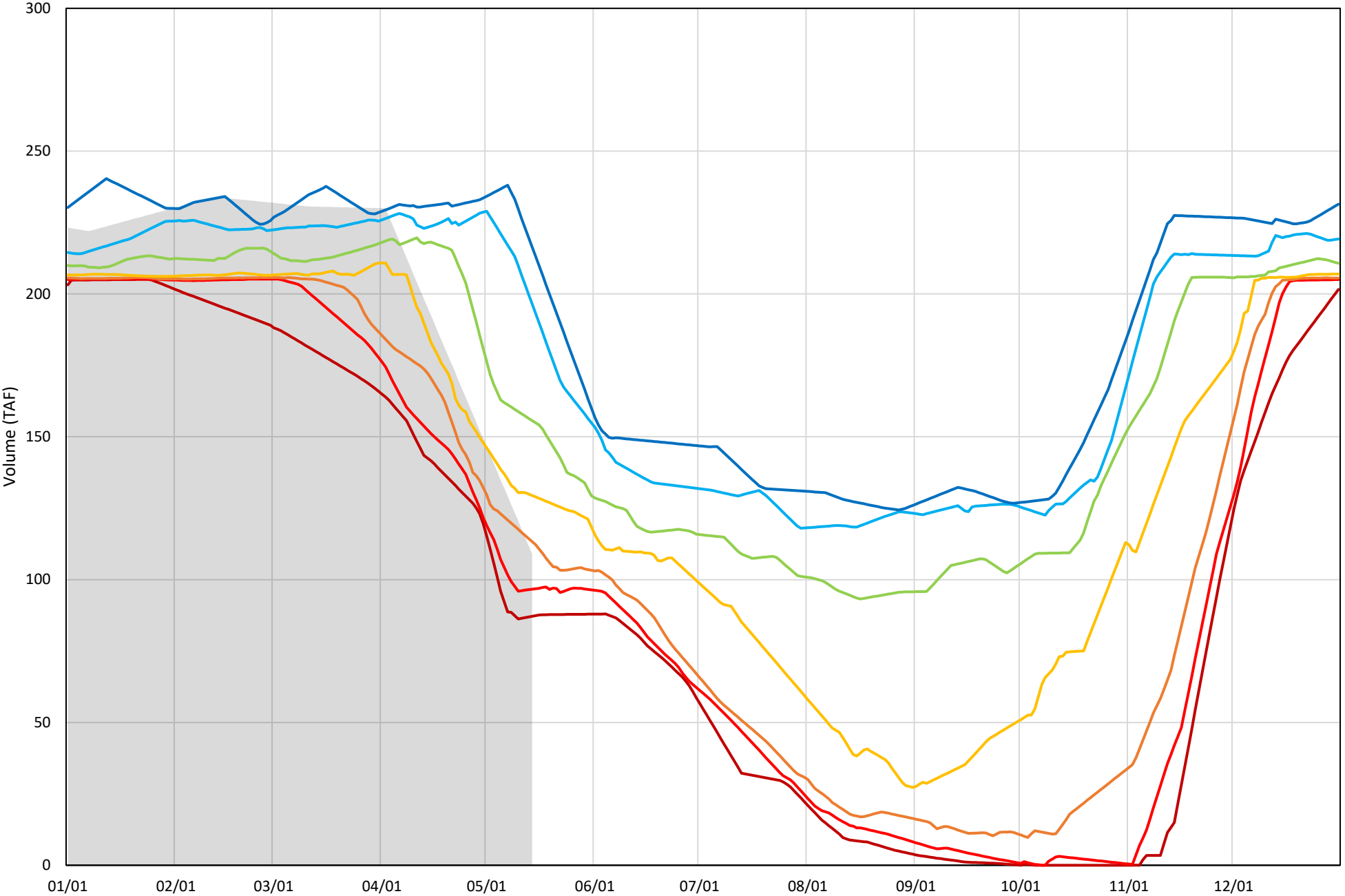


Whiskeytown Lake Cold Water Pool Volume ≤58°F - Percent Exceedances (2000-2024)



Whiskeytown Lake Cold Water Pool Volume ≤56°F - Percent Exceedances (2000-2024)

2025 95 90 75 50 25 10 5



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

May-15 2025	Δ TAF				% Δ			
	$\leq 60^\circ$	$\leq 58^\circ$	$\leq 56^\circ$	Abs. Avg.	$\leq 60^\circ$	$\leq 58^\circ$	$\leq 56^\circ$	Abs. Avg.
2000	83.1	20.6	0.7	34.8	64.3	17.4	0.7	27.5
2001	43.9	33.5	7.9	28.4	34.0	28.2	7.3	23.2
2002	55.2	28.0	20.4	34.6	42.7	23.6	18.7	28.4
2003	94.4	101.8	107.0	101.1	73.1	85.7	98.2	85.6
2004	17.5	24.5	30.5	24.2	13.5	20.6	28.0	20.7
2005	26.4	33.0	36.9	32.1	20.5	27.8	33.9	27.4
2006	69.1	61.1	49.4	59.9	53.5	51.5	45.3	50.1
2007	44.9	38.2	27.6	36.9	34.8	32.2	25.3	30.8
2008	70.0	78.8	74.5	74.4	54.2	66.3	68.4	63.0
2009	19.7	14.7	10.9	15.1	15.3	12.4	10.0	12.6
2010	101.6	112.0	55.3	89.6	78.6	94.3	50.8	74.5
2011	101.5	89.6	55.8	82.3	78.5	75.4	51.2	68.4
2012	19.3	24.1	22.8	22.1	14.9	20.3	20.9	18.7
2013	-5.5	2.5	9.9	6.0	-4.3	2.1	9.1	5.1
2014	72.5	-2.8	-1.3	25.6	56.2	-2.3	-1.2	19.9
2015	-2.5	0.1	-6.7	3.1	-2.0	0.1	-6.1	2.7
2016	37.7	20.8	9.9	22.8	29.2	17.5	9.1	18.6
2017	80.2	49.7	23.1	51.0	62.1	41.9	21.2	41.7
2018	32.9	39.9	43.9	38.9	25.5	33.6	40.3	33.1
2019	17.5	14.0	11.0	14.2	13.5	11.7	10.1	11.8
2020	20.2	19.6	12.7	17.5	15.6	16.5	11.6	14.6
2021	-0.5	3.7	-1.3	1.8	-0.4	3.1	-1.2	1.6
2022	76.9	85.5	-20.9	61.1	59.6	72.0	-19.2	50.2
2023	91.4	100.0	107.7	99.7	70.7	84.2	98.8	84.6
2024	77.8	86.2	-22.3	62.1	60.3	72.6	-20.4	51.1
2025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Historical - Current

(Historical - Current) / Current