

Northern CVP Water Temperature Report

February - 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
Jan	51.1	50.5	49.0	50.2	50.2	50.2	49.6	48.9	49.0	47.1	45.0	44.4	44.1	10034	359	10639	51.1	47.1	48.9
02/01	49.8	48.8	#	48.9	48.9	49.0	48.0	47.9	48.2	46.3	44.5	43.9	43.8	4811	11	4989	48.5	48.4	49.6
02/02	49.3	49.0	#	49.1	49.9	50.2	50.5	49.9	49.9	49.3	44.6	44.0	44.4	4414	13	4991	53.5	55.5	57.0
02/03	49.0	49.1	48.3	49.2	50.1	50.2	50.5	50.5	51.1	50.0	44.6	44.1	44.7	2779	1086	5043	53.0	54.8	55.5
02/04	49.0	49.1	48.4	49.3	50.2	50.1	50.1	50.0	50.3	50.2	44.8	44.3	45.2	2116	1872	7051	48.5	49.4	49.5
02/05	49.1	? 48.8	48.2	49.2	49.3	49.4	48.0	47.7	48.4	47.5	44.7	43.6	44.1	5674	1455	7558	42.0	41.1	43.8
02/06	49.2	48.8	48.2	48.7	48.9	48.8	47.5	47.1	47.0	46.8	? 44.5	? 43.0	43.8	12945	1980	23289	41.5	36.9	37.8
02/07	49.2	48.8	48.0	48.8	49.0	48.9	47.7	46.6	46.3	46.9	44.3	43.3	43.5	15143	2041	38524	45.5	42.6	43.1
02/08	49.2	48.5	47.9	48.5	48.9	48.6	48.4	48.0	48.1	46.3	44.0	43.6	43.8	12402	1596	60582	45.0	42.1	44.6
02/09	49.3	48.7	47.8	48.6	49.0	48.6	48.4	48.0	48.1	46.1	44.5	43.9	43.9	14228	1611	60799	50.5	46.9	48.0
02/10	49.3	48.6	47.7	48.5	49.1	48.6	48.4	48.0	48.1	45.8	44.6	43.9	43.8	15339	1857	61325	49.0	45.2	46.8
02/11	49.1	48.5	47.7	48.4	49.0	48.5	48.2	47.8	48.0	45.3	44.5	43.7	43.6	14367	1752	61480	41.0	38.5	41.6
02/12	49.0	48.3	47.5	48.2	48.6	48.3	48.1	47.7	47.8	45.1	44.3	43.5	43.3	15475	1887	61358	41.0	37.8	40.6
02/13	48.9	48.4	47.4	48.1	48.2	48.2	47.5	47.2	47.6	45.2	44.0	? 43.3	43.2	16802	1960	42899	43.5	42.0	43.7
02/14	48.7	48.3	47.4	48.2	48.4	48.5	48.3	47.6	47.8	46.8	44.0	43.8	44.1	15000	1672	39265	49.5	51.2	52.0
02/15	48.7	48.1	47.4	48.1	48.2	48.2	48.1	47.9	48.3	46.3	44.3	43.9	44.1	18092	1334	40172	48.0	45.0	47.0
02/16	48.6	48.1	47.5	48.1	48.3	48.2	48.4	48.3	48.8	46.8	44.4	44.5	44.9	19044	1142	40016	51.0	49.3	50.7
02/17	48.5	48.0	47.5	48.0	48.2	48.2	48.4	48.4	48.8	46.4	44.5	44.8	45.3	18603	1033	34948	50.0	48.3	47.5
02/18	48.4	47.9	47.4	47.9	48.1	48.1	48.2	48.2	48.8	46.2	44.5	44.8	45.4	17718	1025	30040	49.0	47.8	51.1
02/19	48.2	47.7	47.4	47.8	48.1	48.0	48.3	48.4	49.0	46.6	44.5	45.0	45.6	18026	1030	25610	50.5	49.6	52.0
02/20	48.3	47.6	47.4	47.6	47.9	47.9	48.2	48.3	48.9	46.1	44.4	44.9	45.5	17001	435	20531	53.0	49.9	52.9
02/21	48.3	47.6	47.5	47.7	48.0	48.1	48.3	48.3	48.9	46.4	44.5	44.7	45.2	15252	82	17485	60.5	50.9	54.4
02/22	48.1	47.4	45.5	47.7	48.0	48.1	48.6	48.8	49.4	46.7	44.6	45.0	45.6	14932	11	15387	52.5	52.0	54.9
02/23	48.0	47.2	46.0	47.5	47.9	48.0	48.7	49.1	49.8	47.4	44.5	45.4	46.1	13087	74	13330	58.5	54.9	55.8
02/24	47.9	47.0	#	47.3	47.7	47.8	48.8	49.6	50.3	47.2	44.5	45.6	46.1	11367	11	11235	57.0	55.4	56.0
02/25	47.7	? 46.9	#	47.1	47.6	47.7	48.7	49.3	? 50.2	46.5	? 44.4	? 45.4	? 45.8	9023	11	10140	54.0	51.9	54.8
02/26	48.0	47.4	#	47.1	47.6	47.9	48.6	49.0	49.8	46.8	44.4	45.0	45.3	9388	10	9033	60.5	51.0	54.8
02/27	47.8	47.1	47.7	47.5	47.8	48.1	48.9	49.3	50.1	47.1	44.5	45.1	45.6	7950	402	7871	59.5	55.4	58.6
02/28	48.1	47.3	47.5	47.5	48.0	48.4	49.5	50.1	50.8	47.6	44.6	45.2	45.9	6961	233	6897	↑ 64.0	56.9	60.3
-																			
-																			
-																			
Feb	48.7	48.1	47.5	48.2	48.5	48.5	48.5	48.5	48.9	46.8	44.4	44.3	44.7	12426	987	27209	50.7	48.2	50.2

Total CFS	347939	27626	761848
Total AF	690123	54795	1511094

Legend

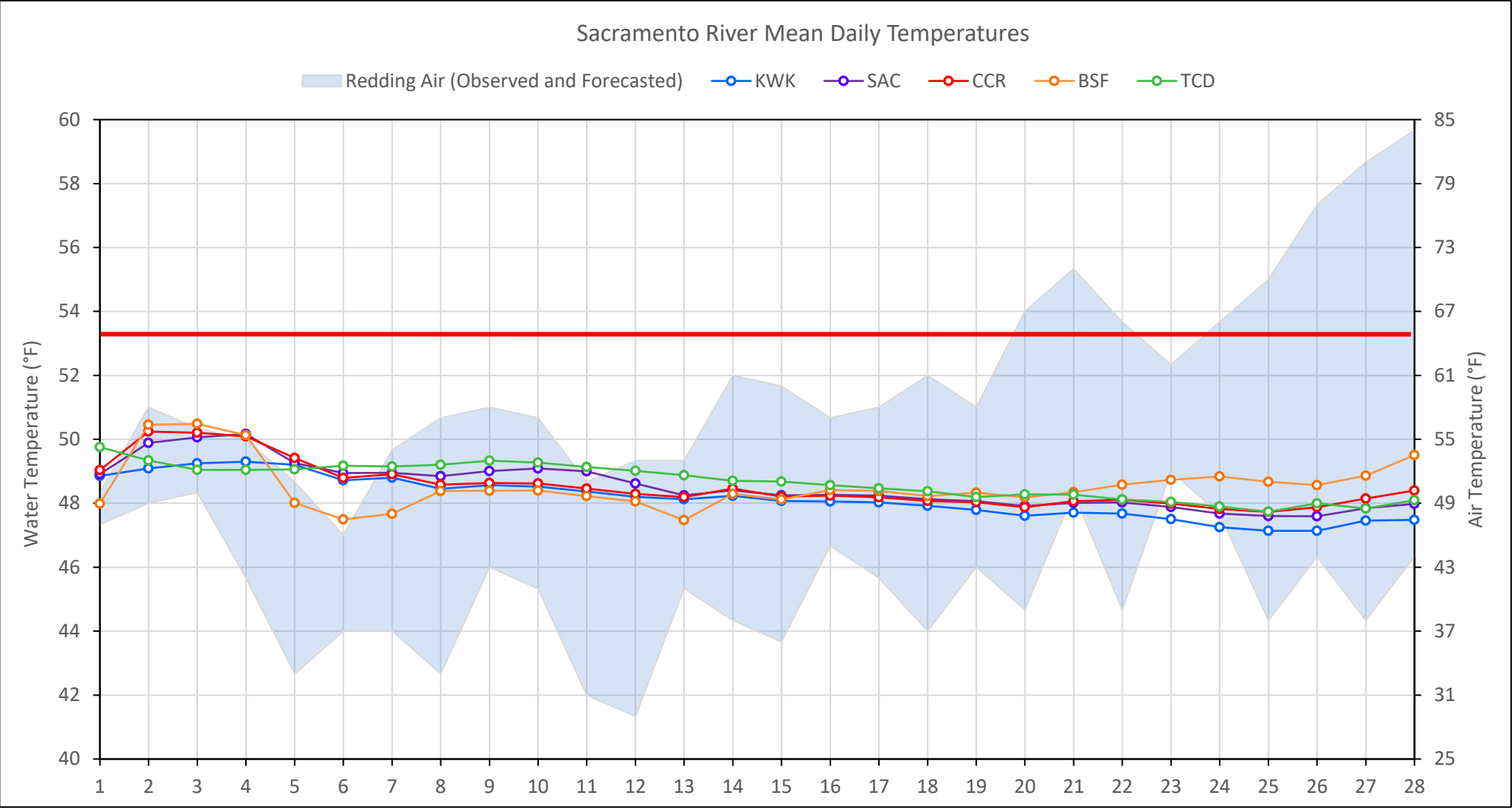
Notes

- ? = 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)



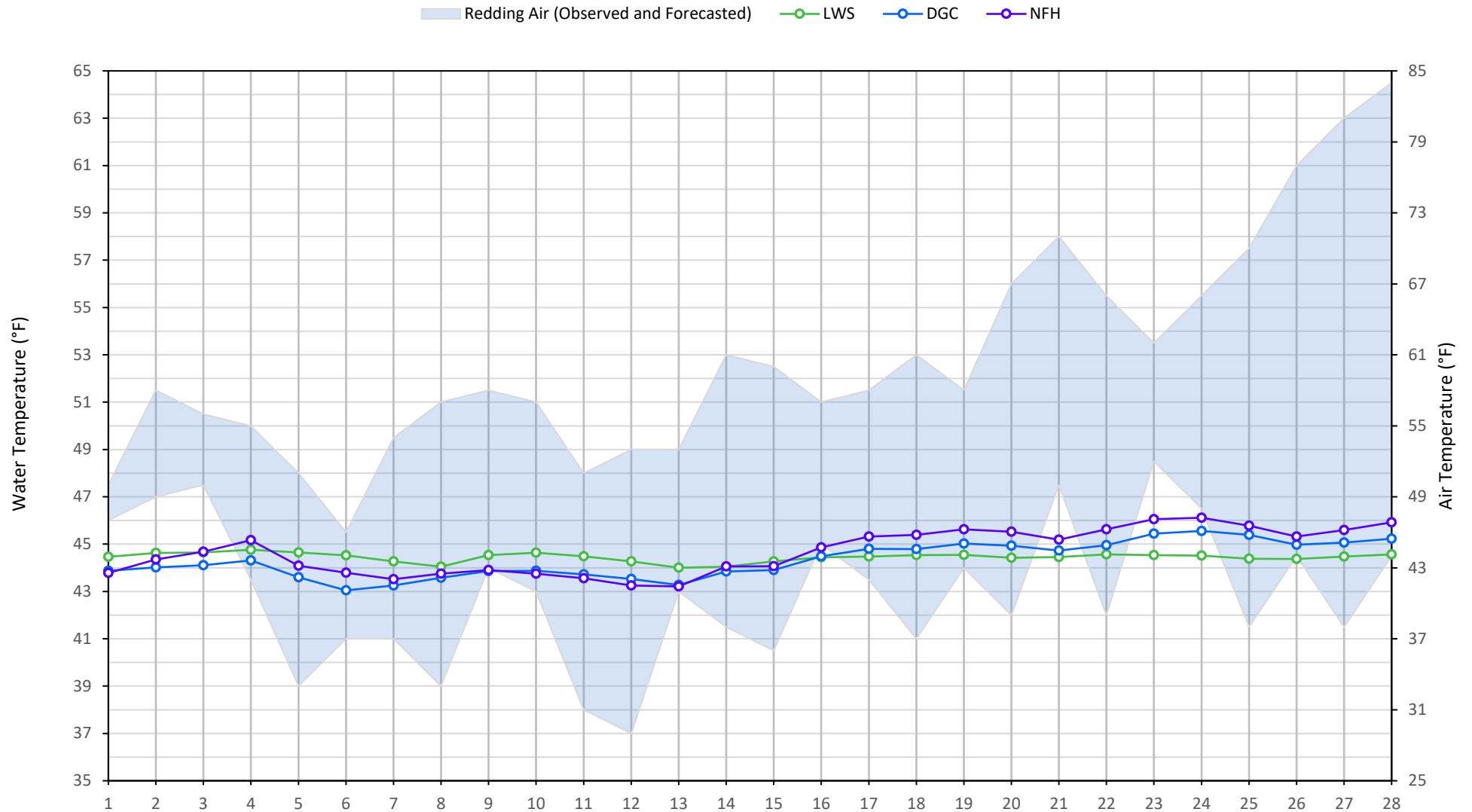
Station Details			
Code	Body of Water	Location ¹	CDEC Link
TCD	N/A	Shasta Power Plant	N/A
SHD	Sacramento River	0.3 miles downstream of Shasta Power Plant	Click Here
SPP	N/A	Spring Creek Power Plant	N/A
KWK	Sacramento River	0.8 miles downstream of Keswick Dam	Click Here
SAC	Sacramento River	4.8 miles 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	53.5	05/24/2024	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

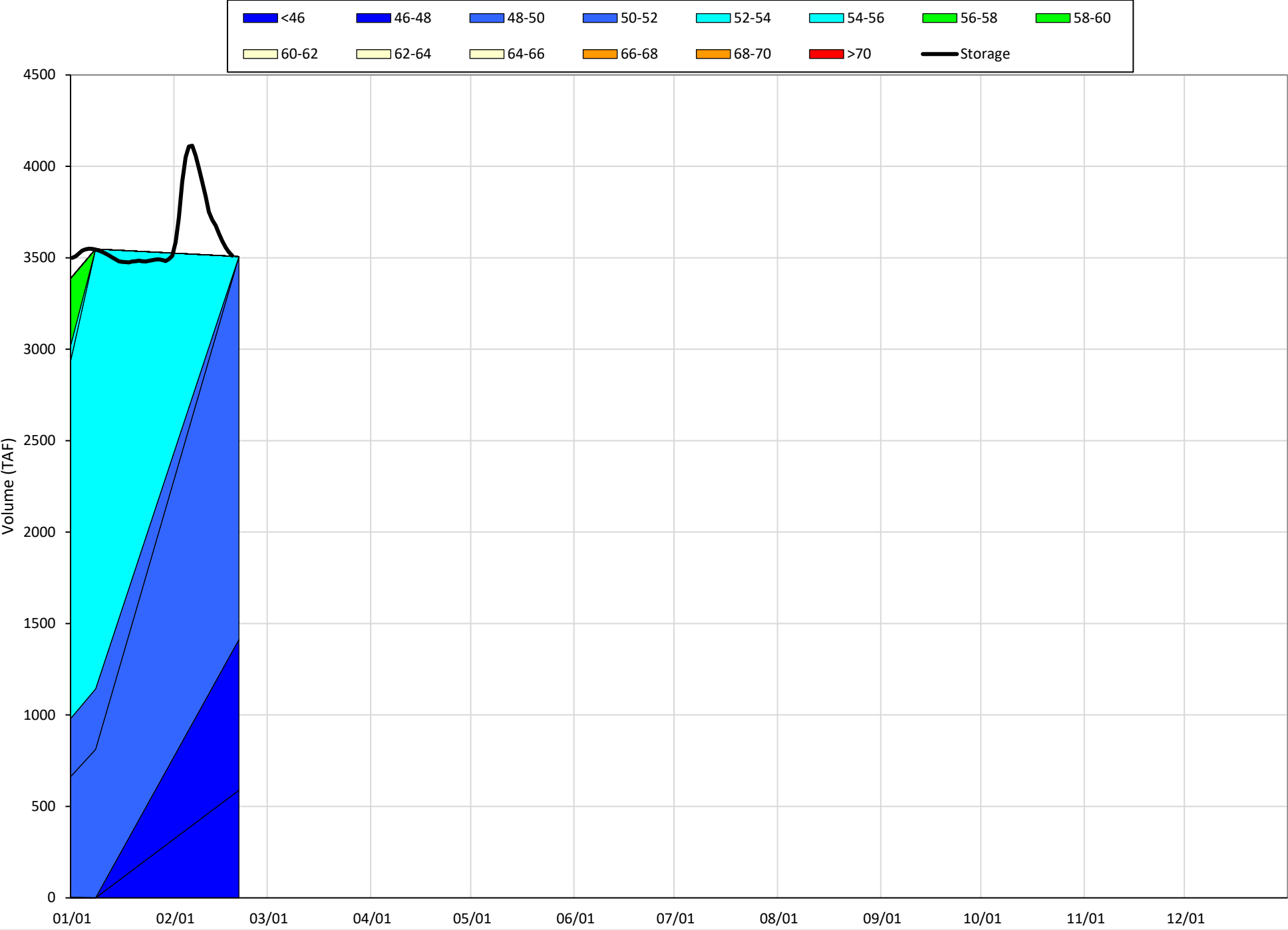
¹ Distances are approximate

Shasta Lake Isothermobaths & Cold Water Pool Statistics

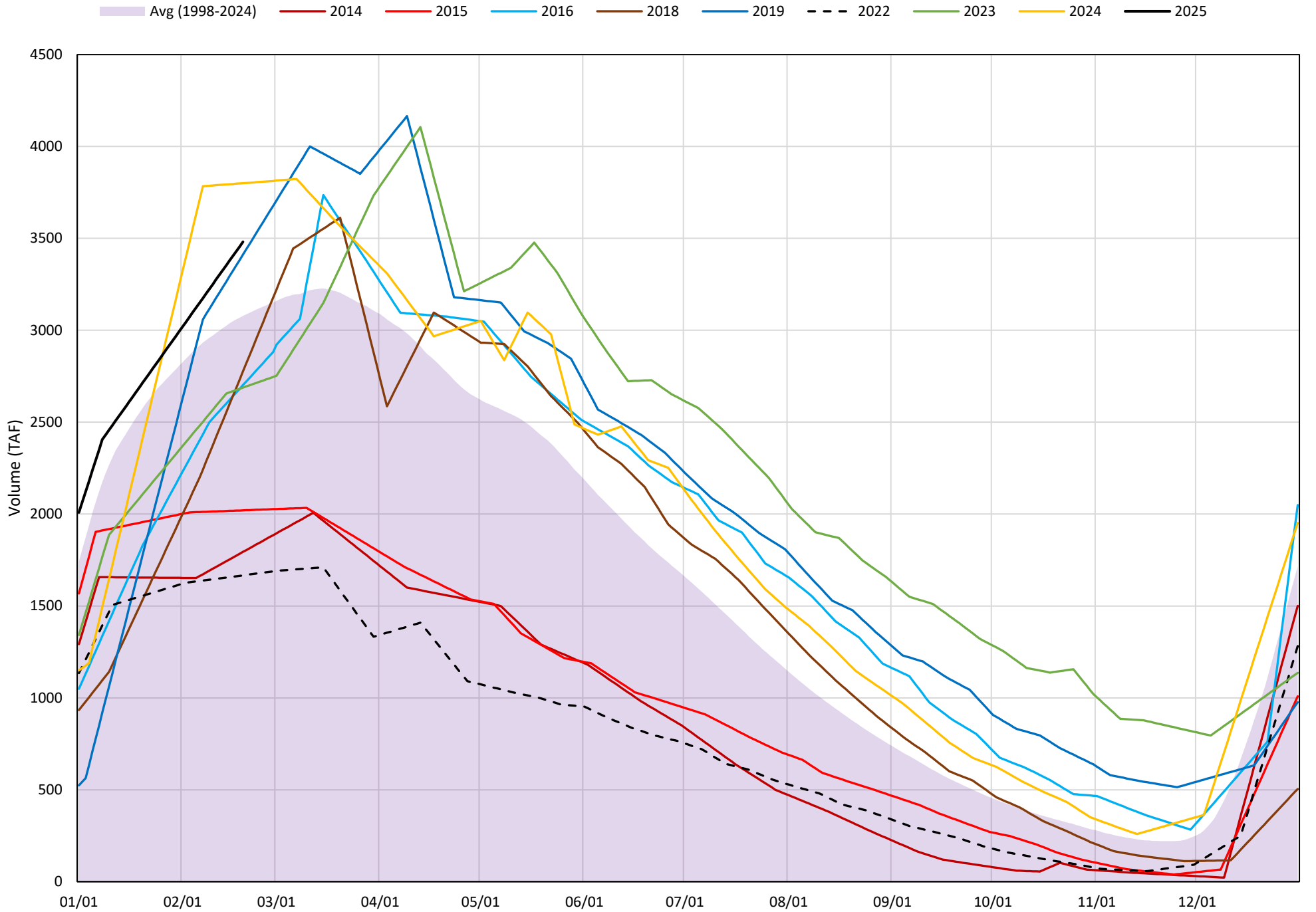
2025

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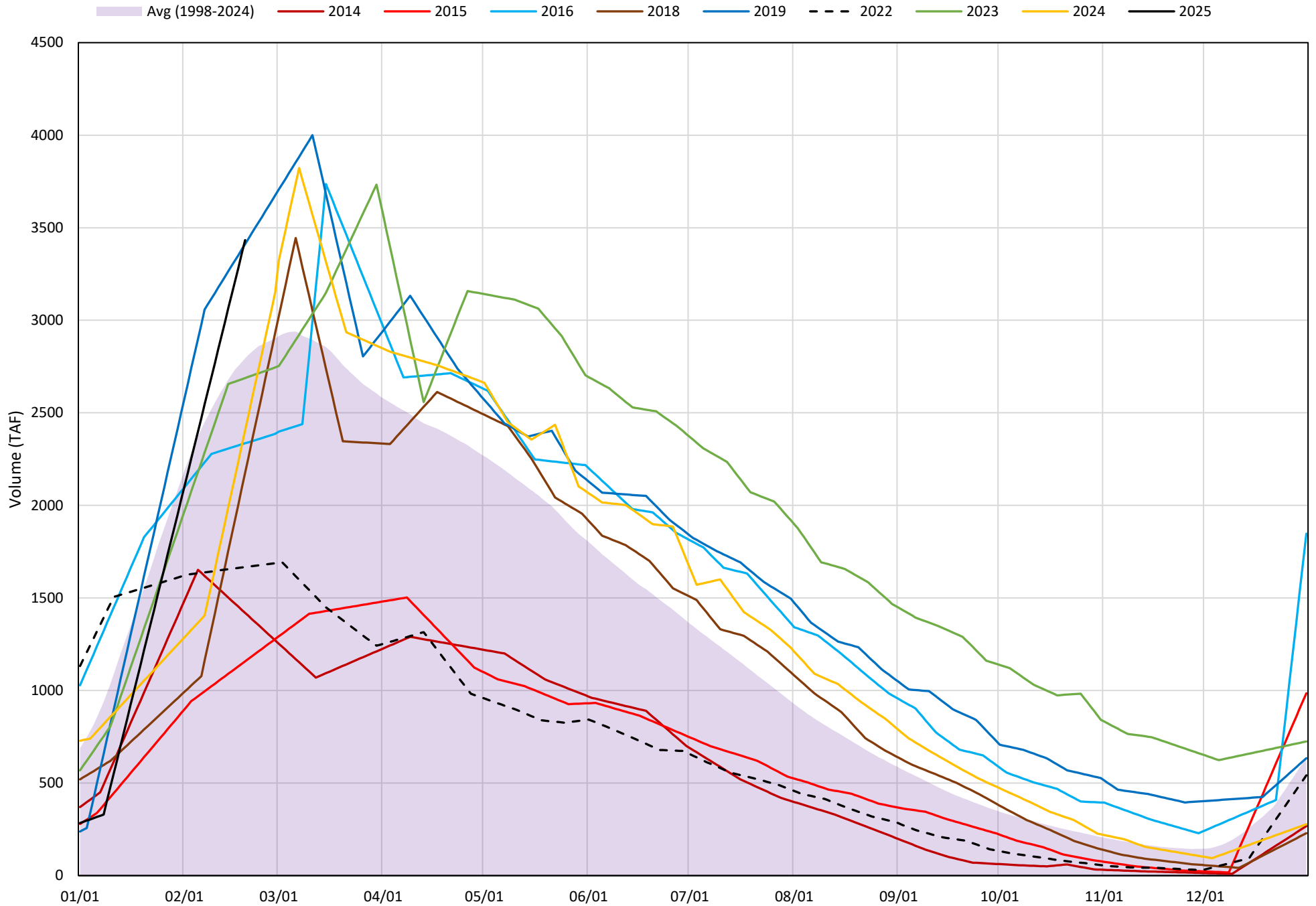
Shasta Lake Isothermobaths Plot - 2025



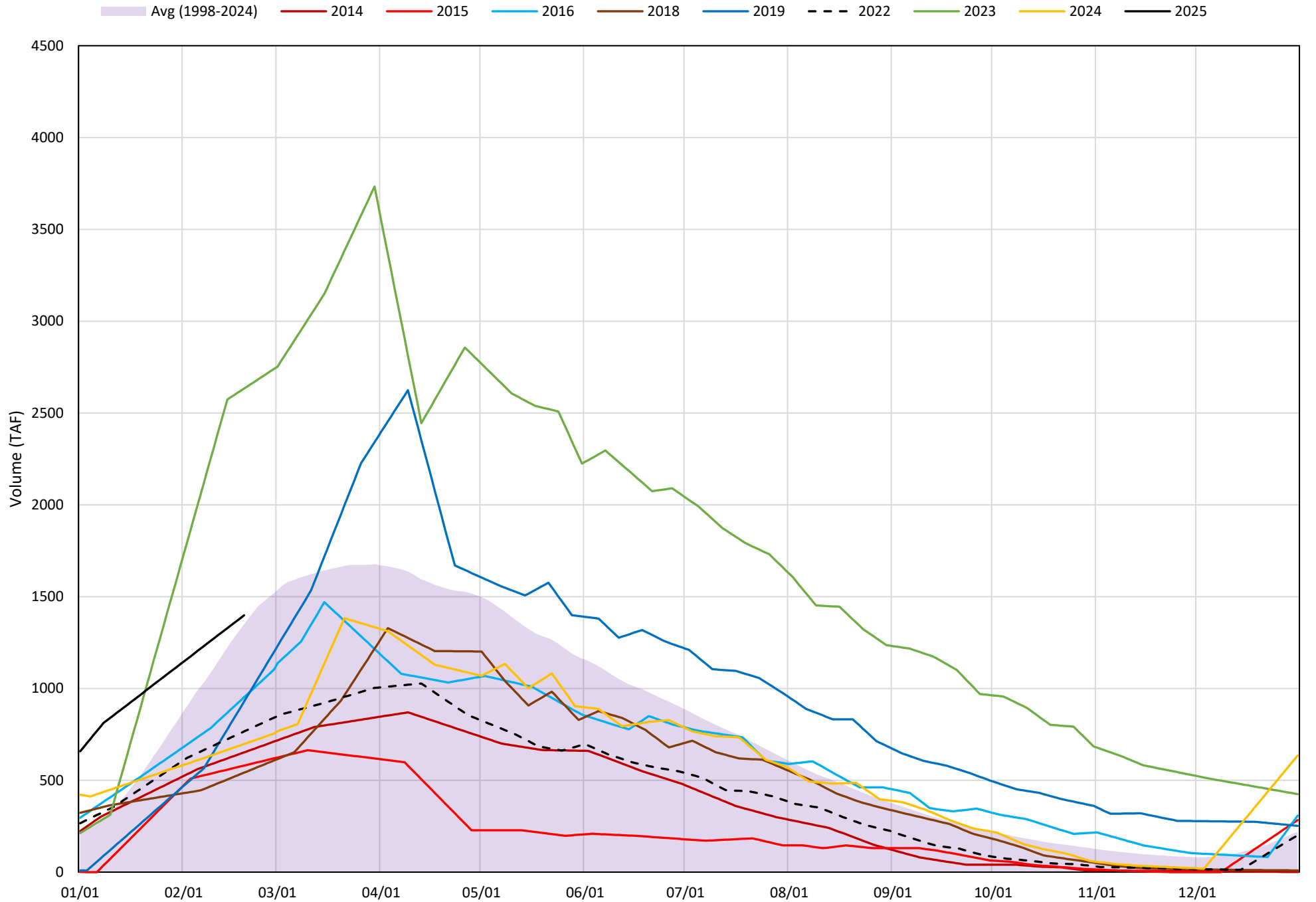
Shasta Lake Cold Water Pool Volume ≤52°F



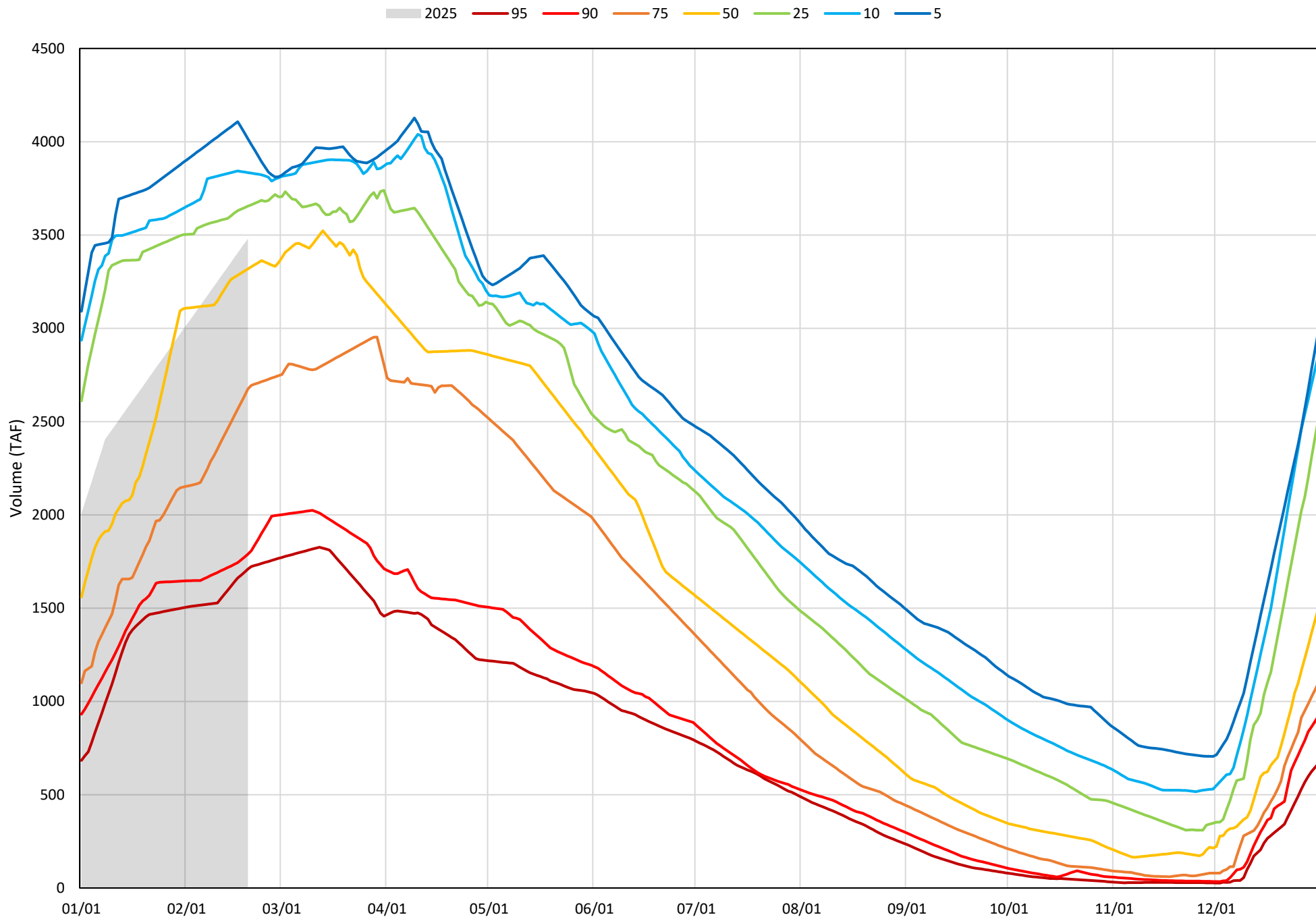
Shasta Lake Cold Water Pool Volume ≤50°F



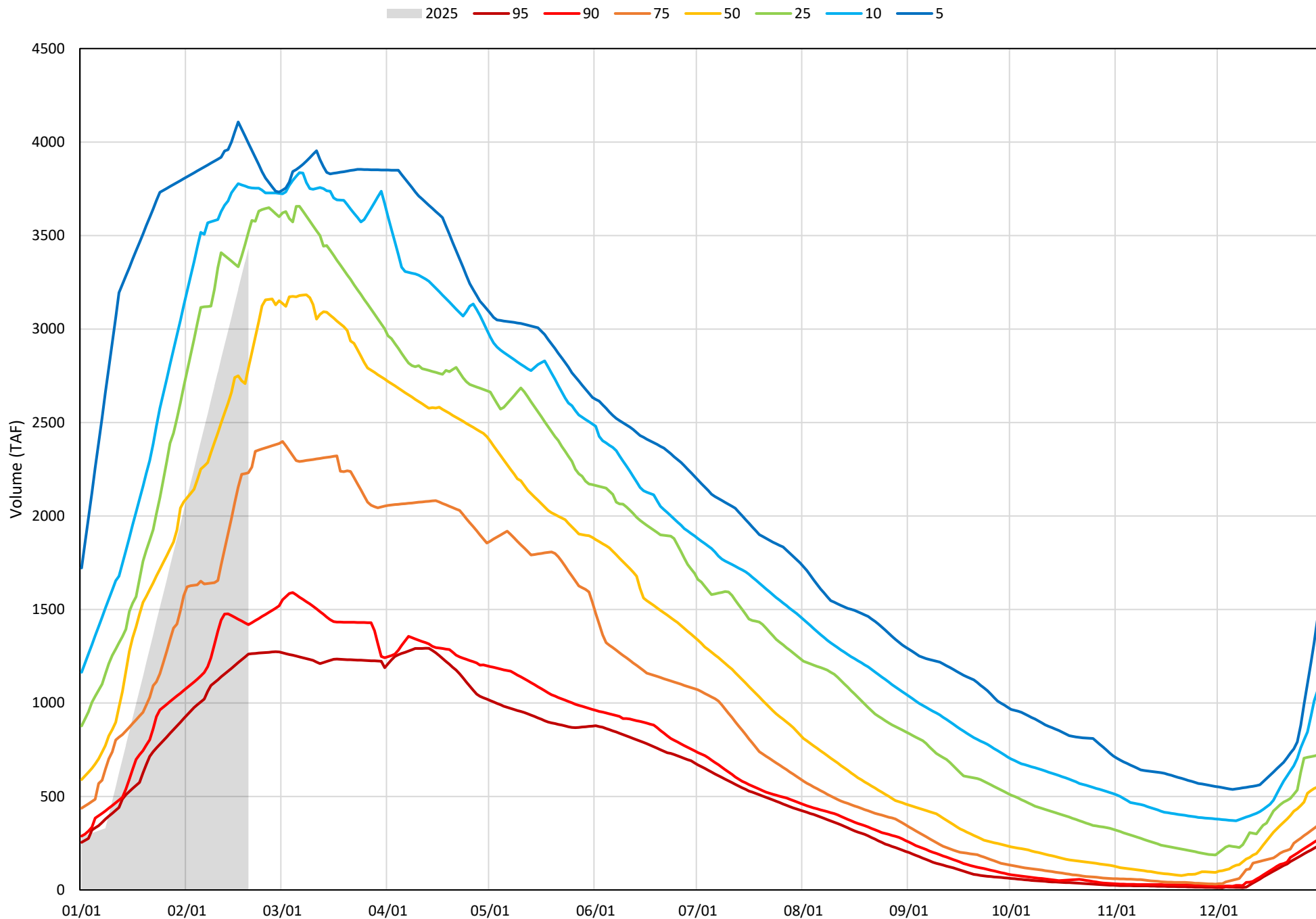
Shasta Lake Cold Water Pool Volume ≤48°F



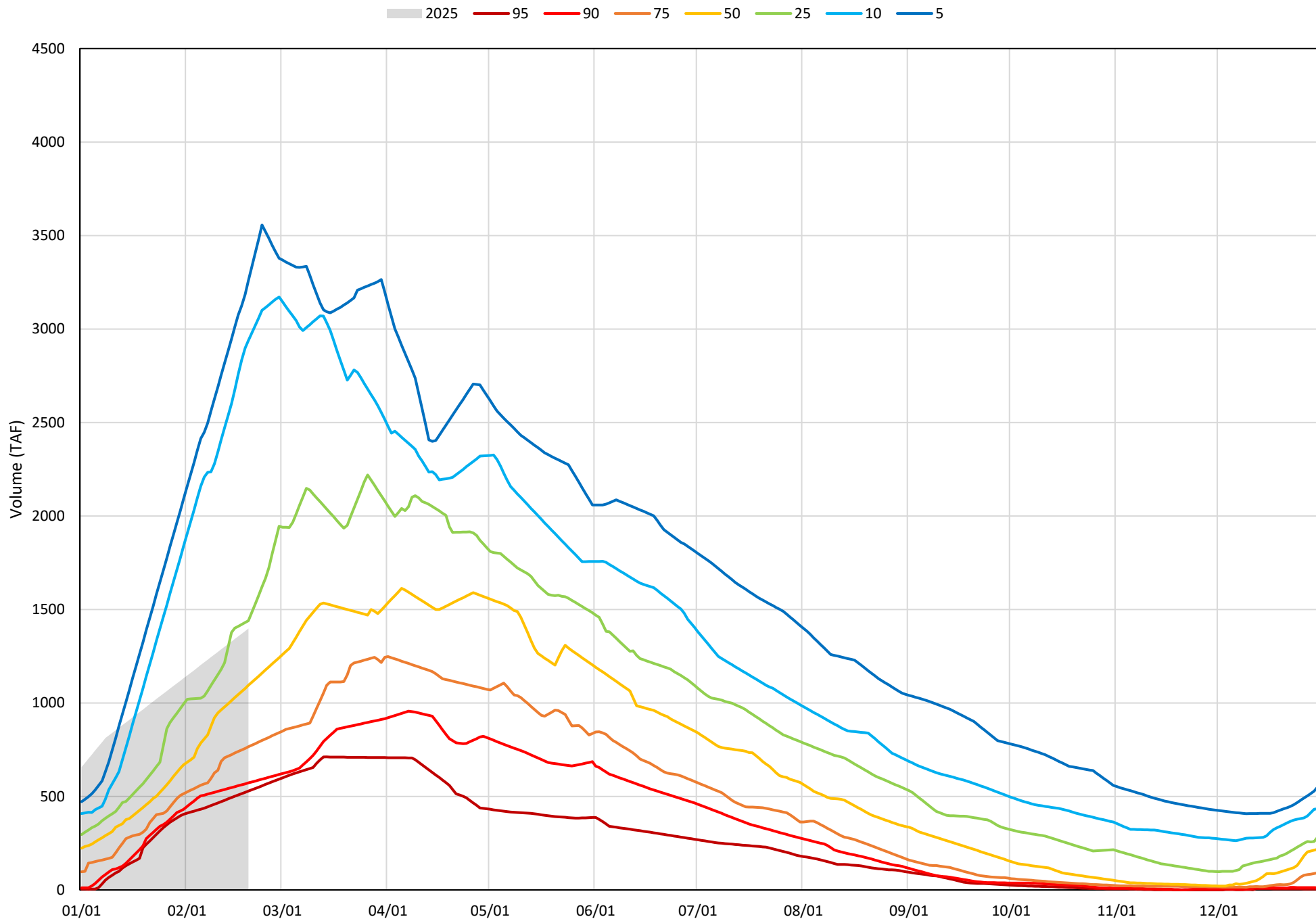
Shasta Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances (1998-2024)



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)

Feb-20 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	-807	-771	-878	819	-23	-22	-63	36
1999	173	33	2029	745	5	1	145	50
2000	489	483	-474	482	14	14	-34	21
2001	-163	-382	1607	717	-5	-11	115	44
2002	232	281	10	174	7	8	1	5
2003	93	84	-121	100	3	2	-9	5
2004	237	285	-468	330	7	8	-33	16
2005	-601	-764	-304	556	-17	-22	-22	20
2006	138	186	-23	116	4	5	-2	4
2007	105	153	-213	157	3	4	-15	8
2008	-1006	-958	678	881	-29	-28	48	35
2009	-1709	-1661	-116	1162	-49	-48	-8	35
2010	-382	-334	41	252	-11	-10	3	8
2011	196	-642	382	407	6	-19	27	17
2012	-336	-288	-354	326	-10	-8	-25	14
2013	87	-146	41	91	2	-4	3	3
2014	-1687	-2014	-747	1483	-48	-59	-53	54
2015	-1461	-2275	-818	1518	-42	-66	-59	56
2016	-780	-1098	-446	775	-22	-32	-32	29
2017	564	612	1523	900	16	18	109	48
2018	-705	-1257	-857	940	-20	-37	-61	39
2019	-70	-21	-470	187	-2	-1	-34	12
2020	32	-2015	-570	872	1	-59	-41	33
2021	-1250	-1202	-685	1046	-36	-35	-49	40
2022	-1815	-1766	-633	1405	-52	-51	-45	50
2023	-793	-745	1234	924	-23	-22	88	44
2024	319	-1028	-701	682	9	-30	-50	30
2025	0	0	0	0	0	0	0	0

Historical - Current

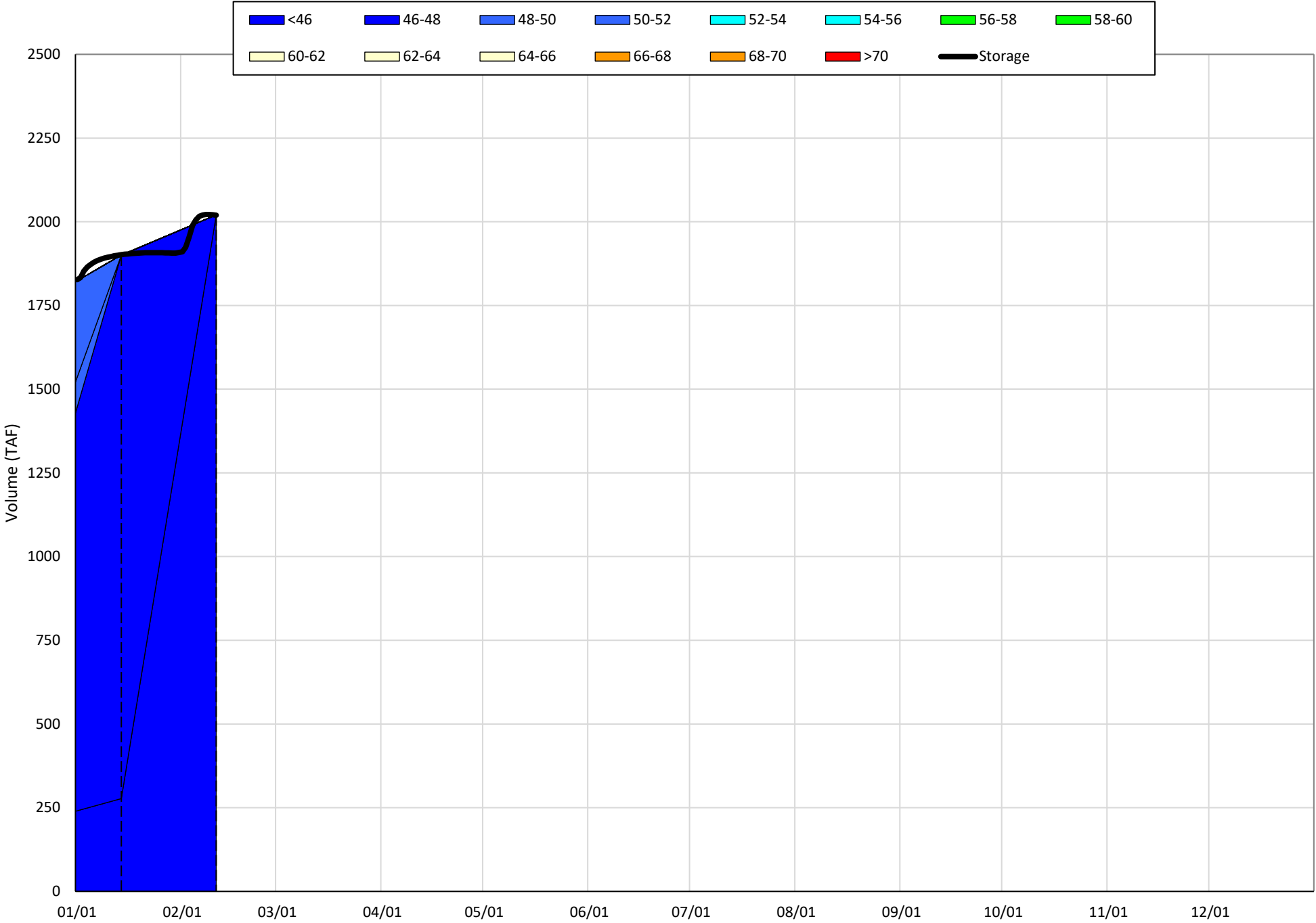
(Historical - Current) / Current

Trinity Lake Isothermobaths & Cold Water Pool Statistics

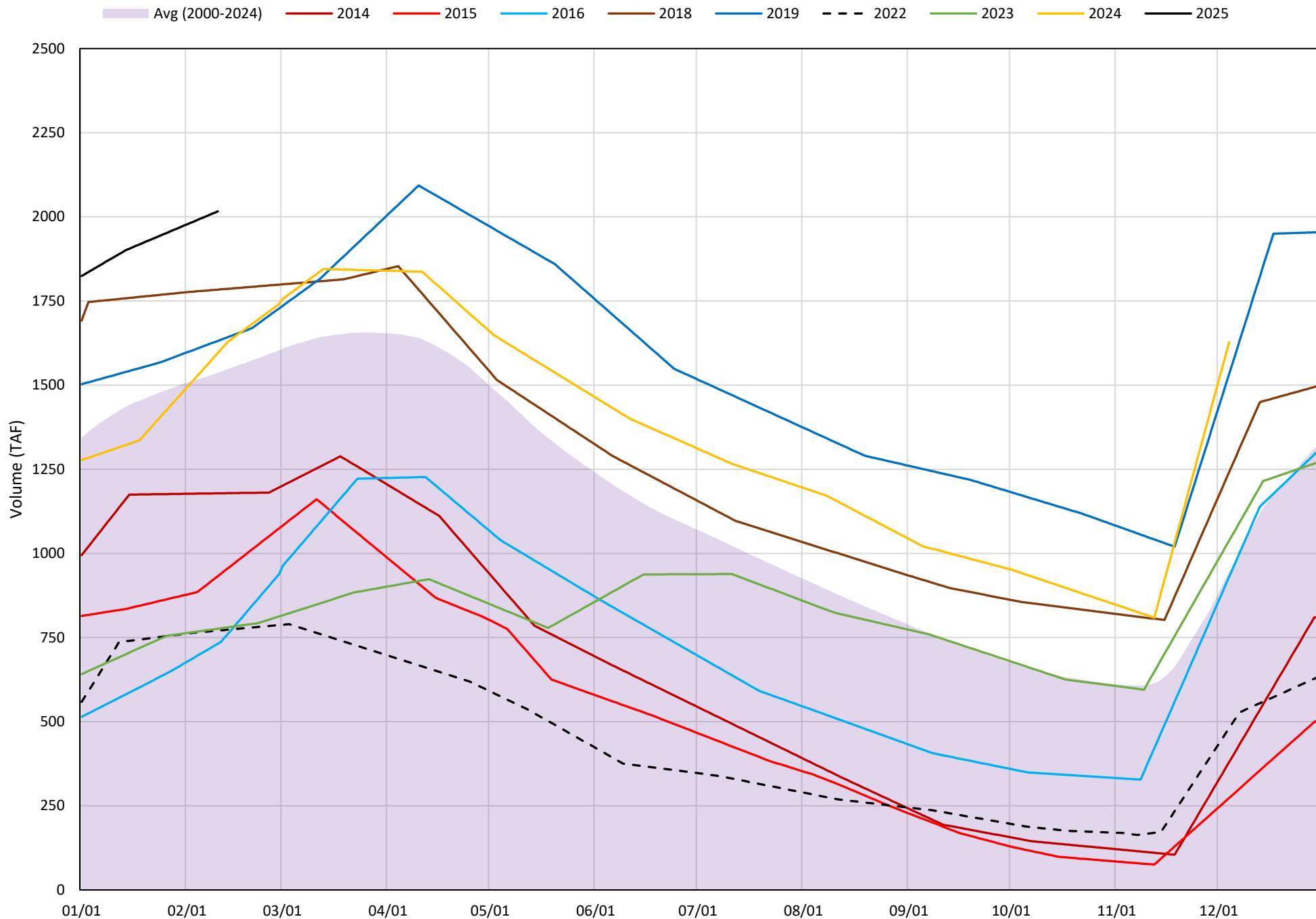
2025

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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

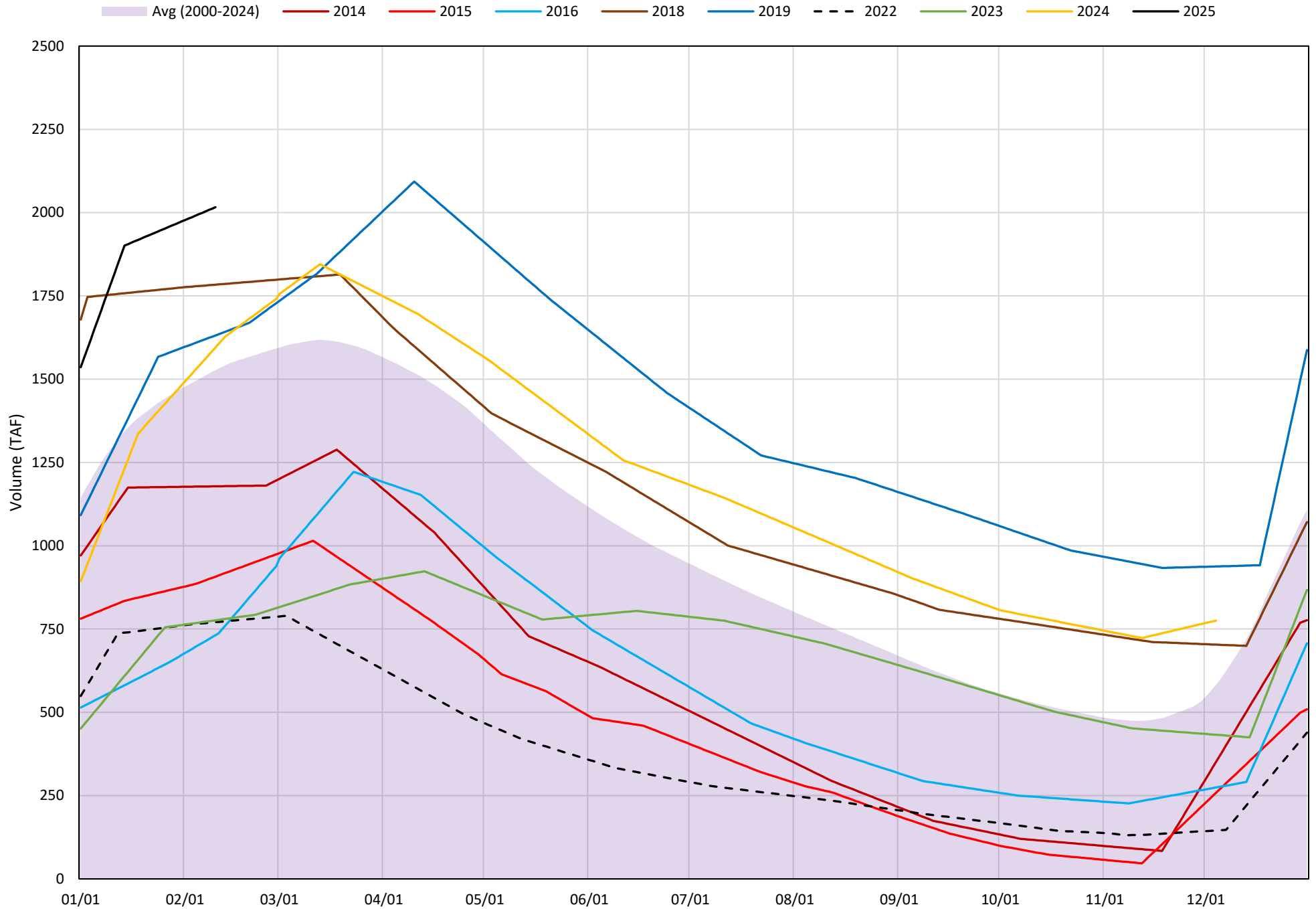
Trinity Lake Isothermobaths Plot - 2025



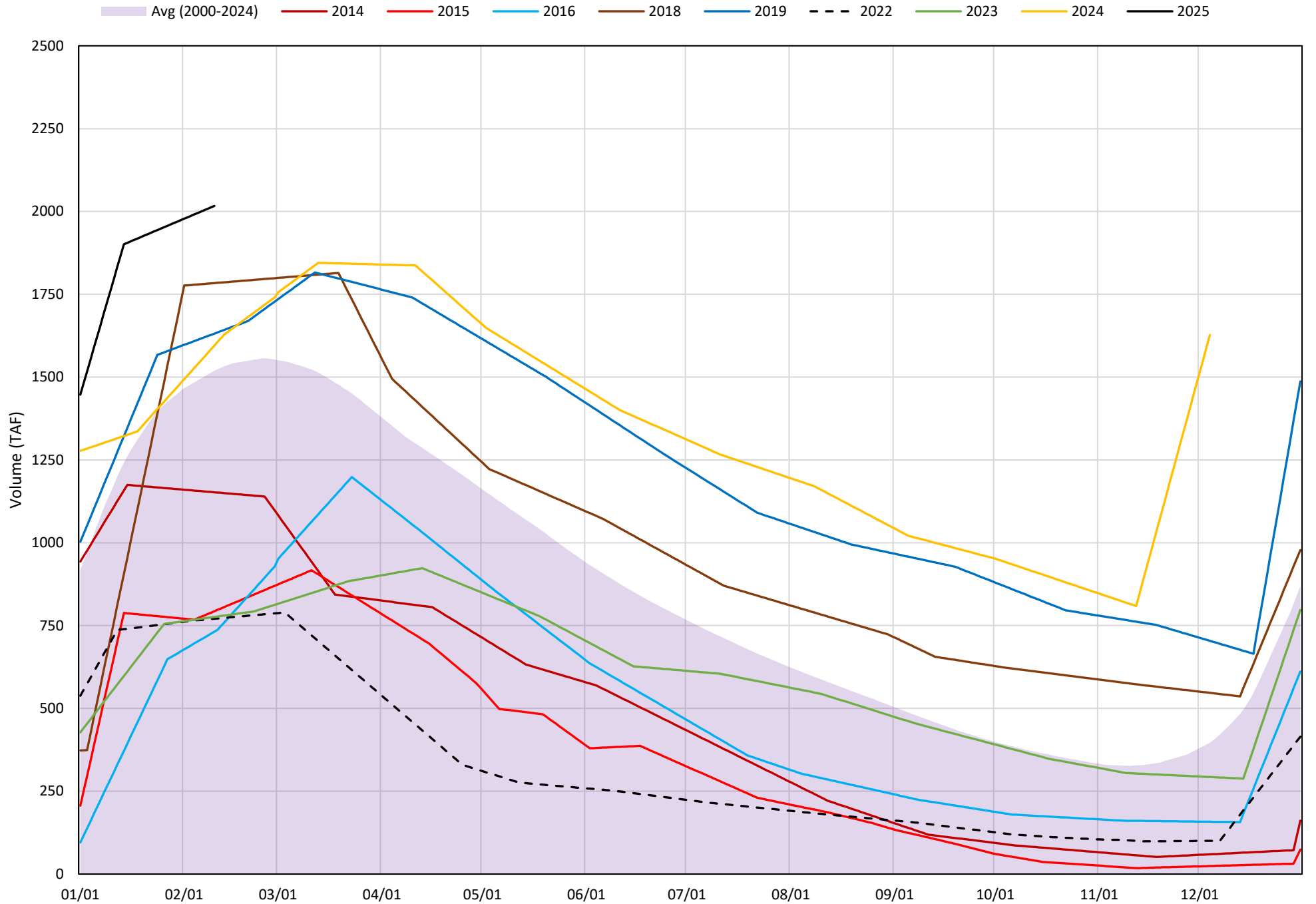
Trinity Lake Cold Water Pool Volume ≤52°F



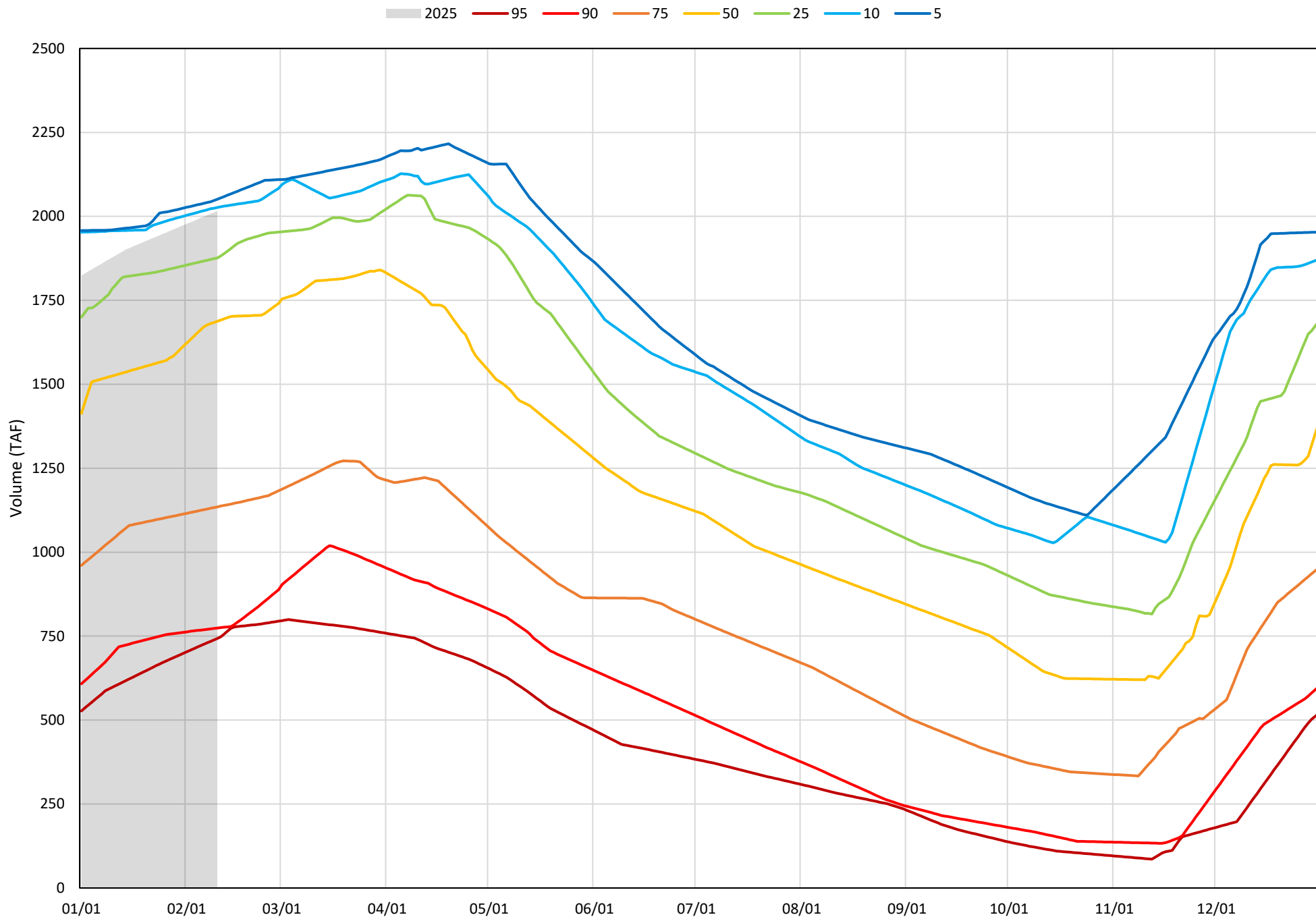
Trinity Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$



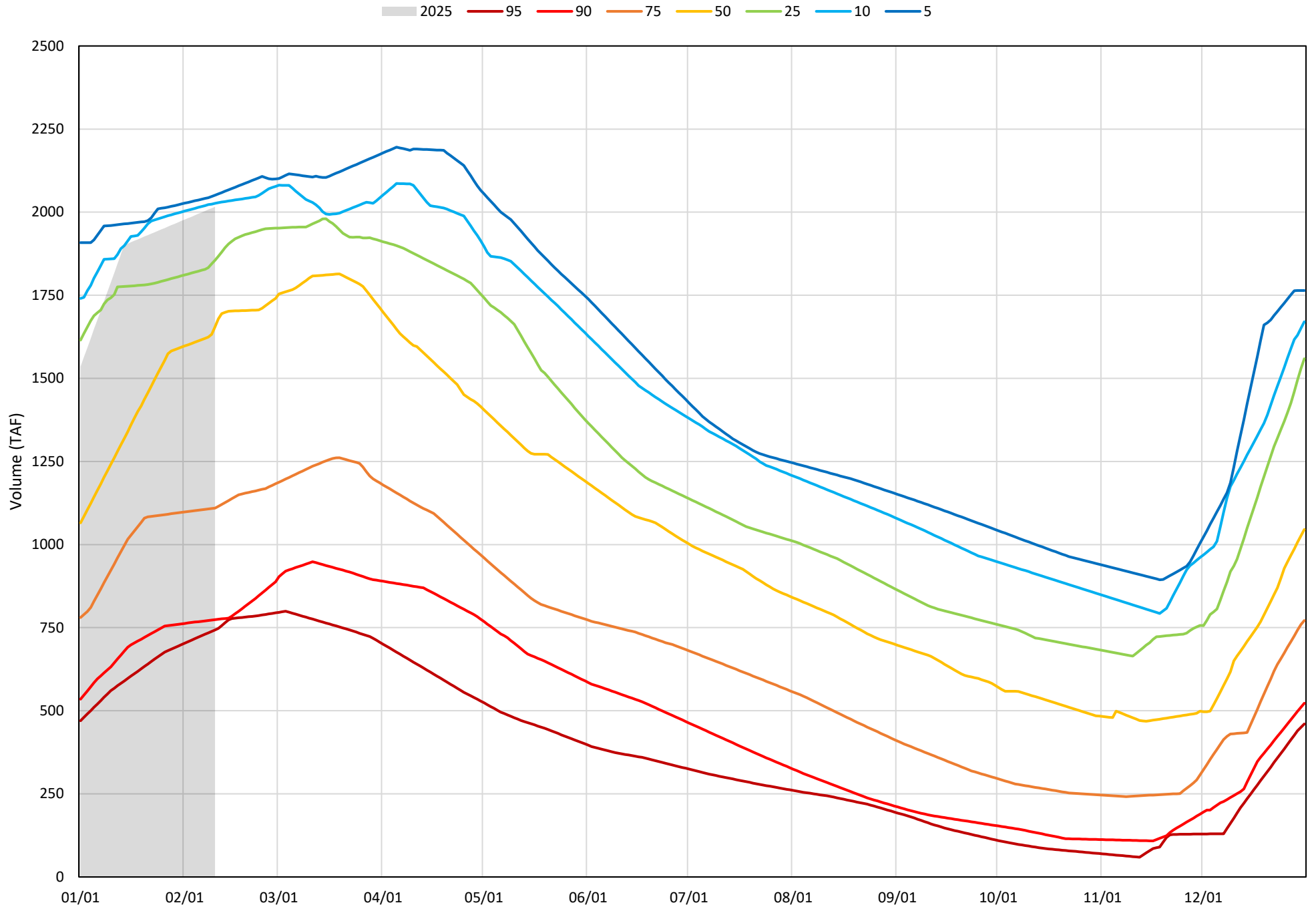
Trinity Lake Cold Water Pool Volume ≤48°F



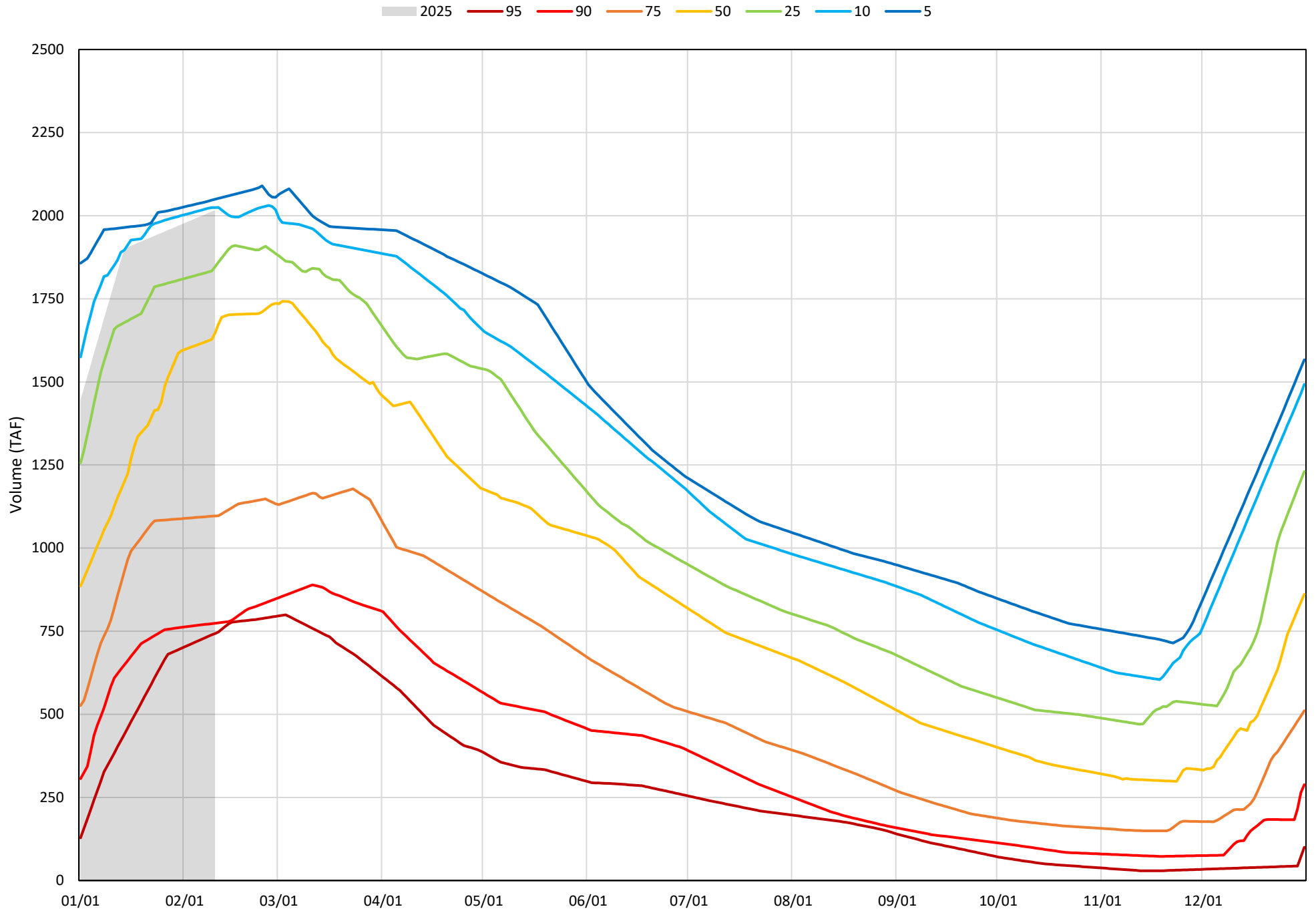
Trinity Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances (2000-2024)



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)

Feb-11 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	36	36	35	36	2	2	2	2
2001	-315	-315	-316	316	-16	-16	-16	16
2002	-329	-329	-329	329	-16	-16	-16	16
2003	-181	-181	-195	186	-9	-9	-10	9
2004	-105	-105	-106	105	-5	-5	-5	5
2005	-401	-401	-402	401	-20	-20	-20	20
2006	32	32	27	30	2	2	1	1
2007	-175	-175	-175	175	-9	-9	-9	9
2008	-569	-569	-570	569	-28	-28	-28	28
2009	-975	-975	-976	975	-48	-48	-48	48
2010	-925	-977	-987	963	-46	-48	-49	48
2011	-185	-185	-186	185	-9	-9	-9	9
2012	-47	-146	-166	120	-2	-7	-8	6
2013	-63	-63	-64	63	-3	-3	-3	3
2014	-838	-838	-864	847	-42	-42	-43	42
2015	-1084	-1109	-1223	1139	-54	-55	-61	56
2016	-1285	-1285	-1285	1285	-64	-64	-64	64
2017	-307	-360	-369	345	-15	-18	-18	17
2018	-233	-233	-233	233	-12	-12	-12	12
2019	-385	-385	-385	385	-19	-19	-19	19
2020	-4	-4	-5	4	0	0	0	0
2021	-753	-753	-754	754	-37	-37	-37	37
2022	-1246	-1246	-1246	1246	-62	-62	-62	62
2023	-1240	-1240	-1241	1240	-62	-62	-62	62
2024	-421	-421	-422	421	-21	-21	-21	21
2025	0	0	0	0	0	0	0	0

Historical - Current

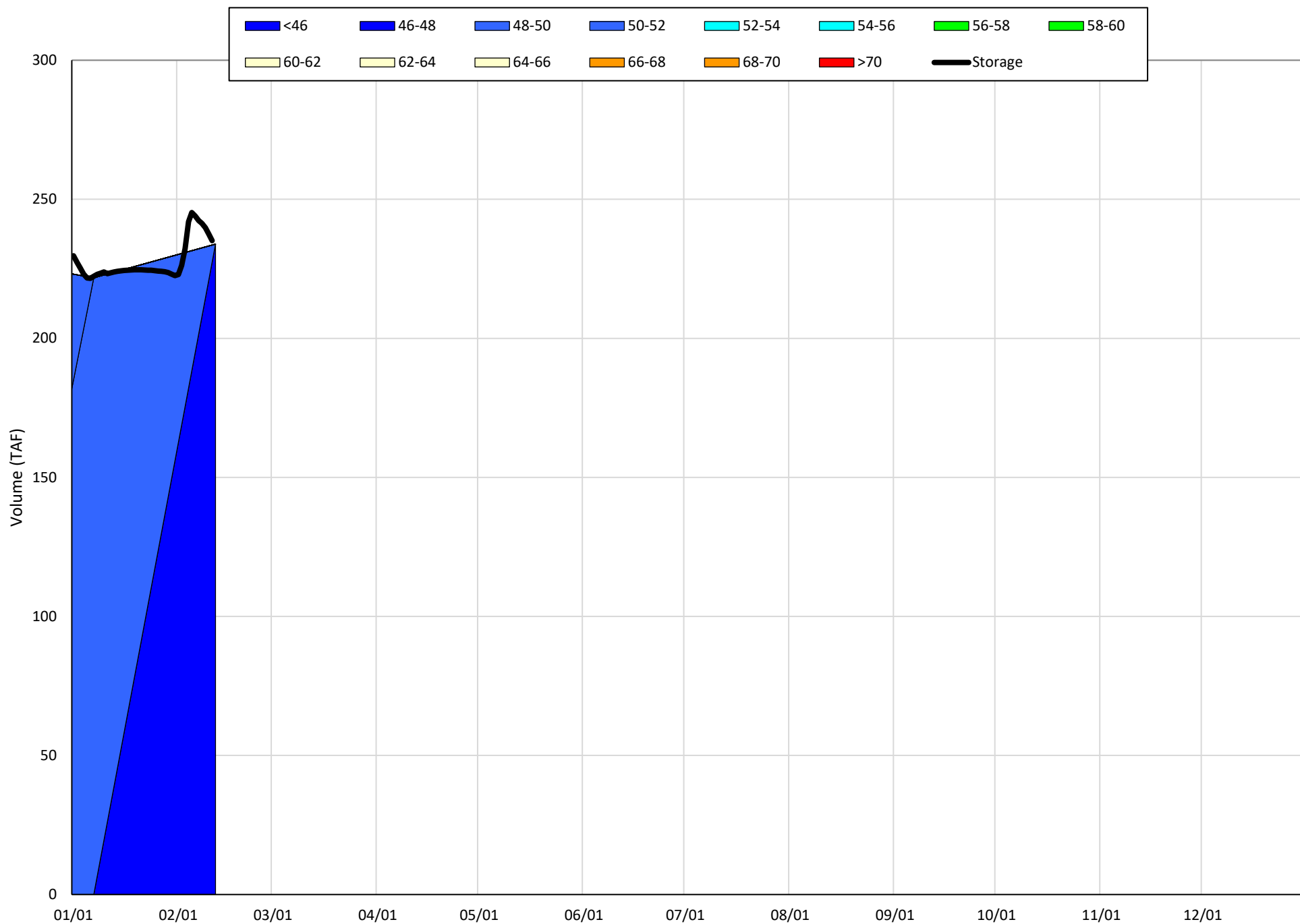
(Historical - Current) / Current

Whiskeytown Lake Isothermobaths & Cold Water Pool Statistics

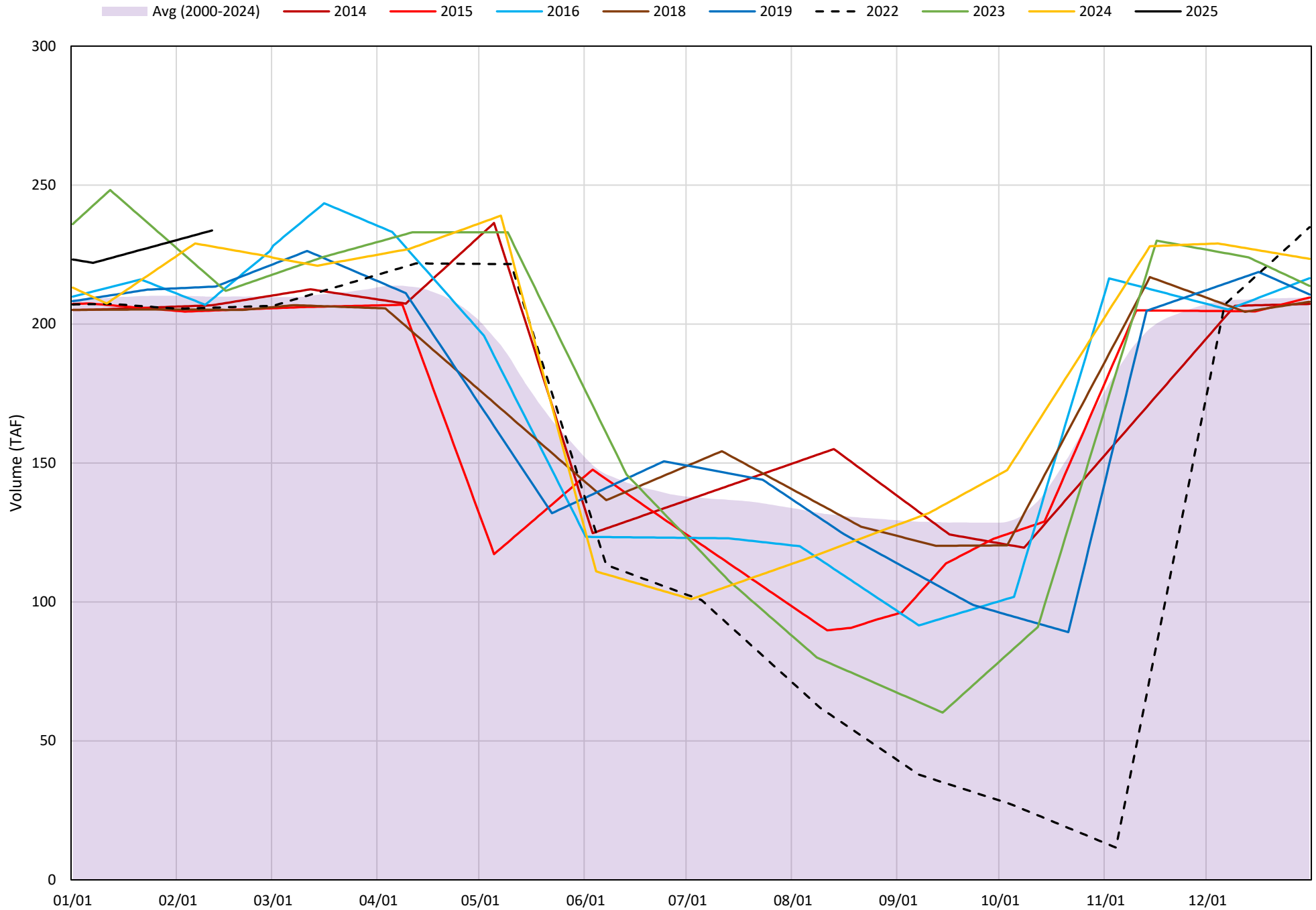
2025

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30	- Whiskeytown Lake Cold Water Pool Volume ≤56°F - Percent Exceedances
31	- Whiskeytown Lake Cold Water Pool Comparison by Year

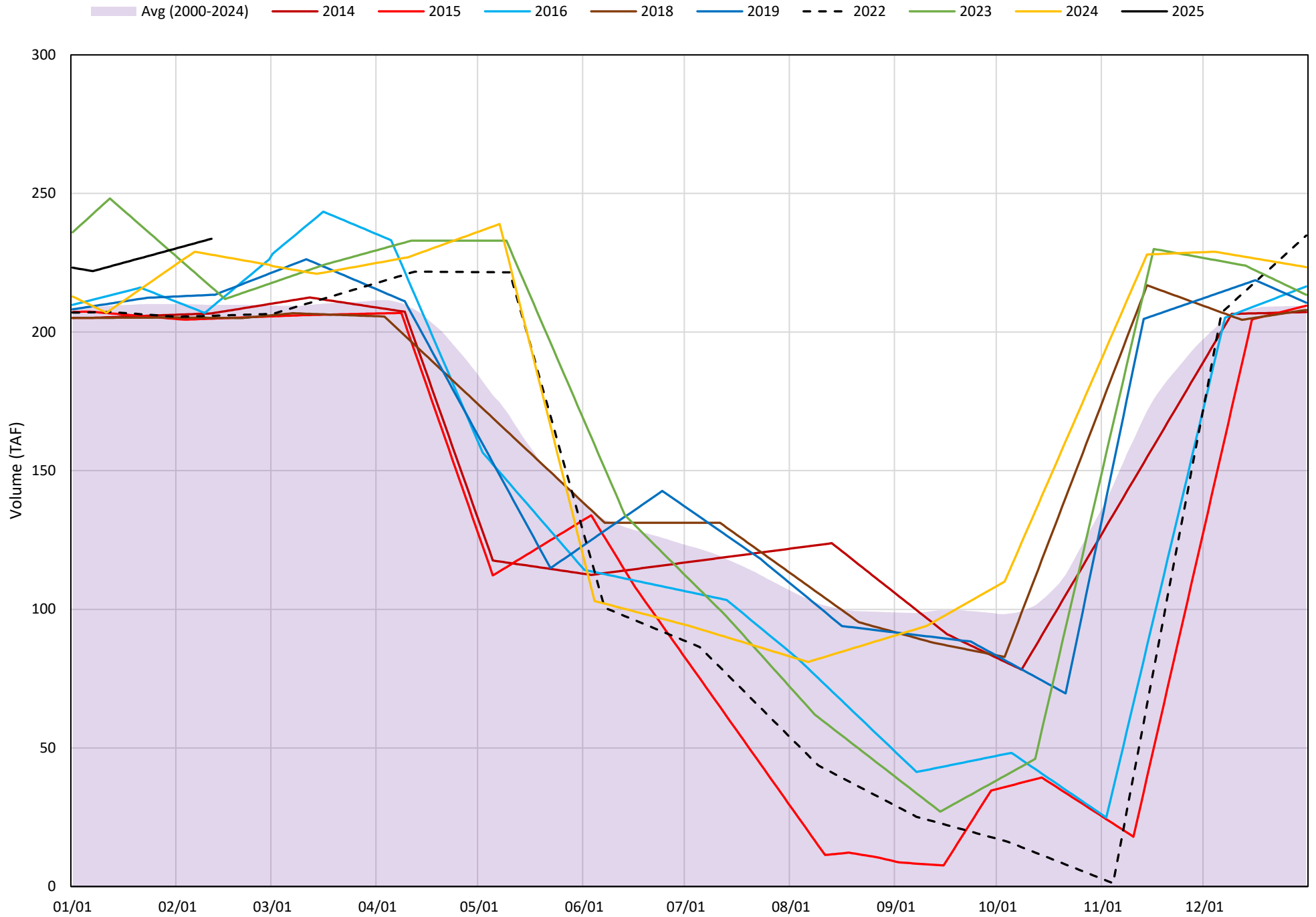
Whiskeytown Lake Isothermobaths Plot - 2025



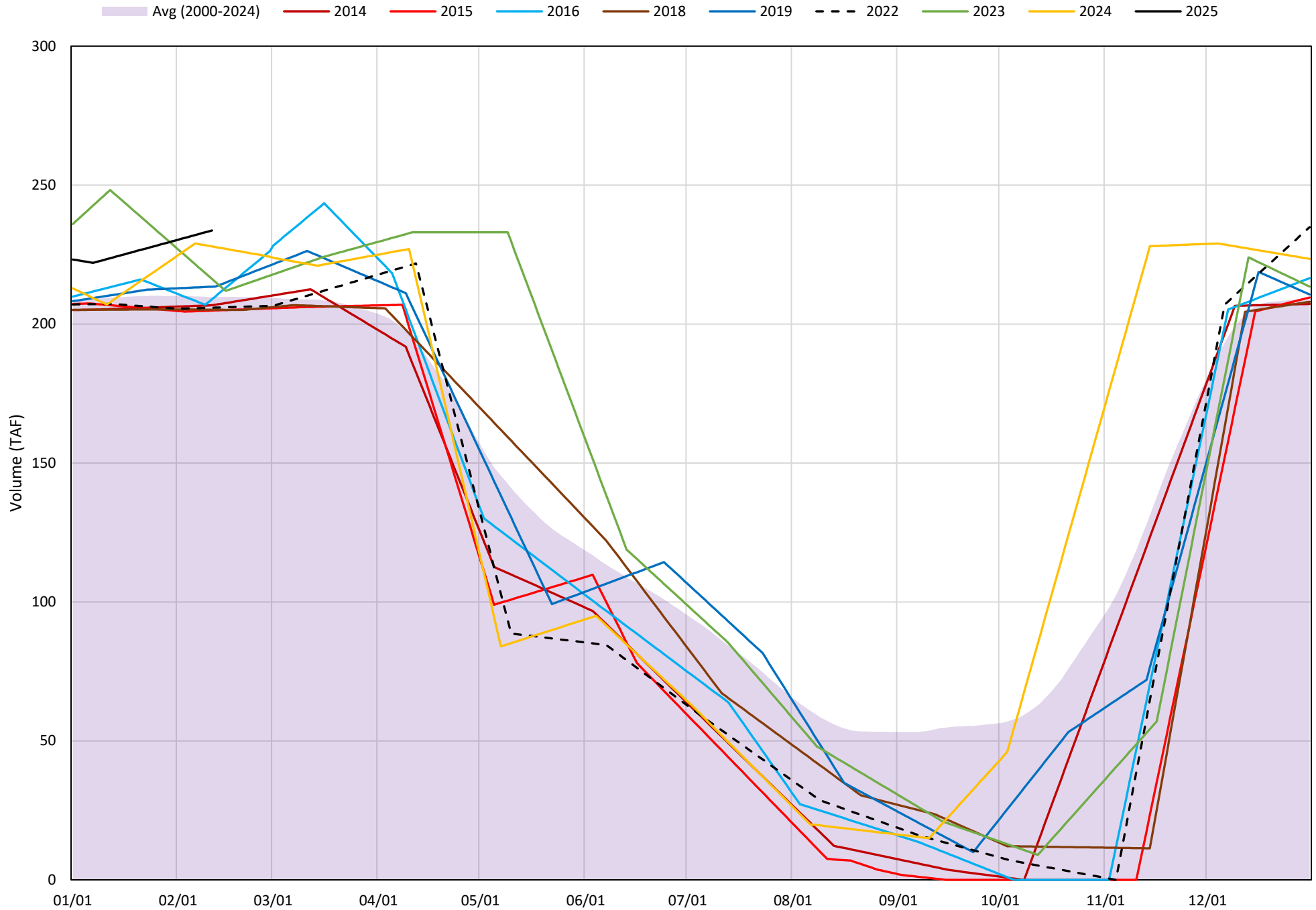
Whiskeytown Lake Cold Water Pool Volume ≤60°F



Whiskeytown Lake Cold Water Pool Volume ≤58°F

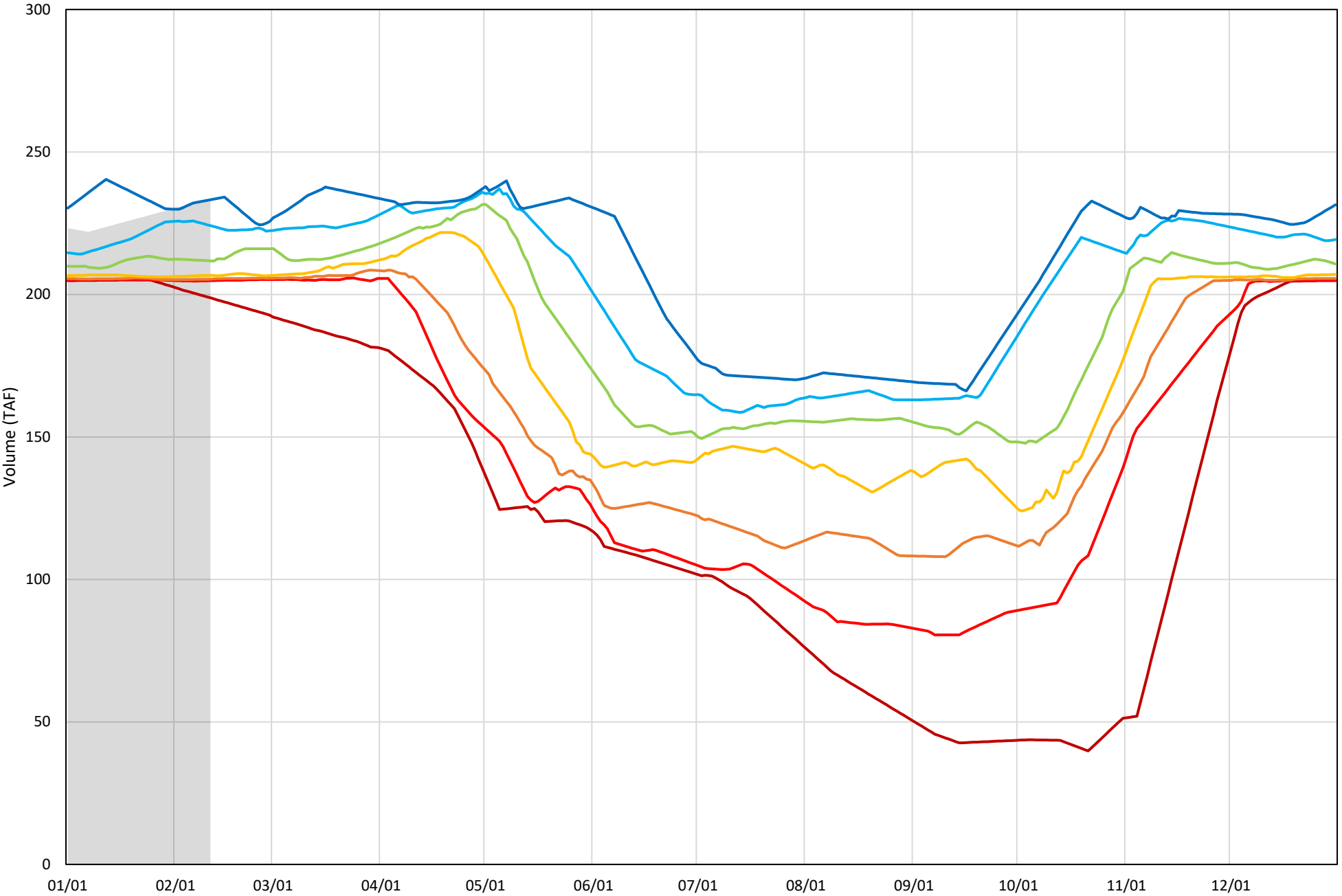


Whiskeytown Lake Cold Water Pool Volume ≤56°F



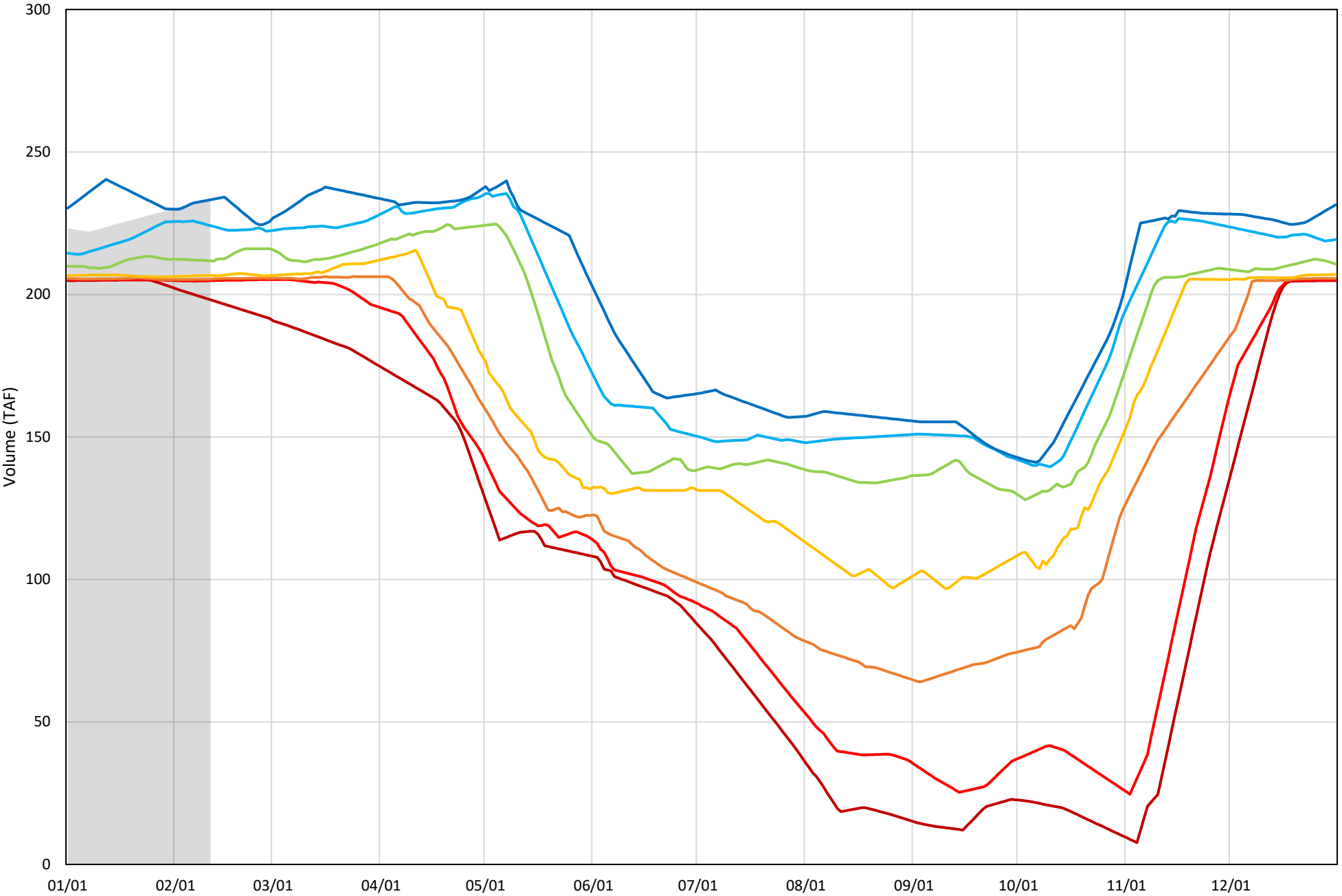
Whiskeytown Lake Cold Water Pool Volume ≤60°F - Percent Exceedances (2000-2024)

2025 95 90 75 50 25 10 5

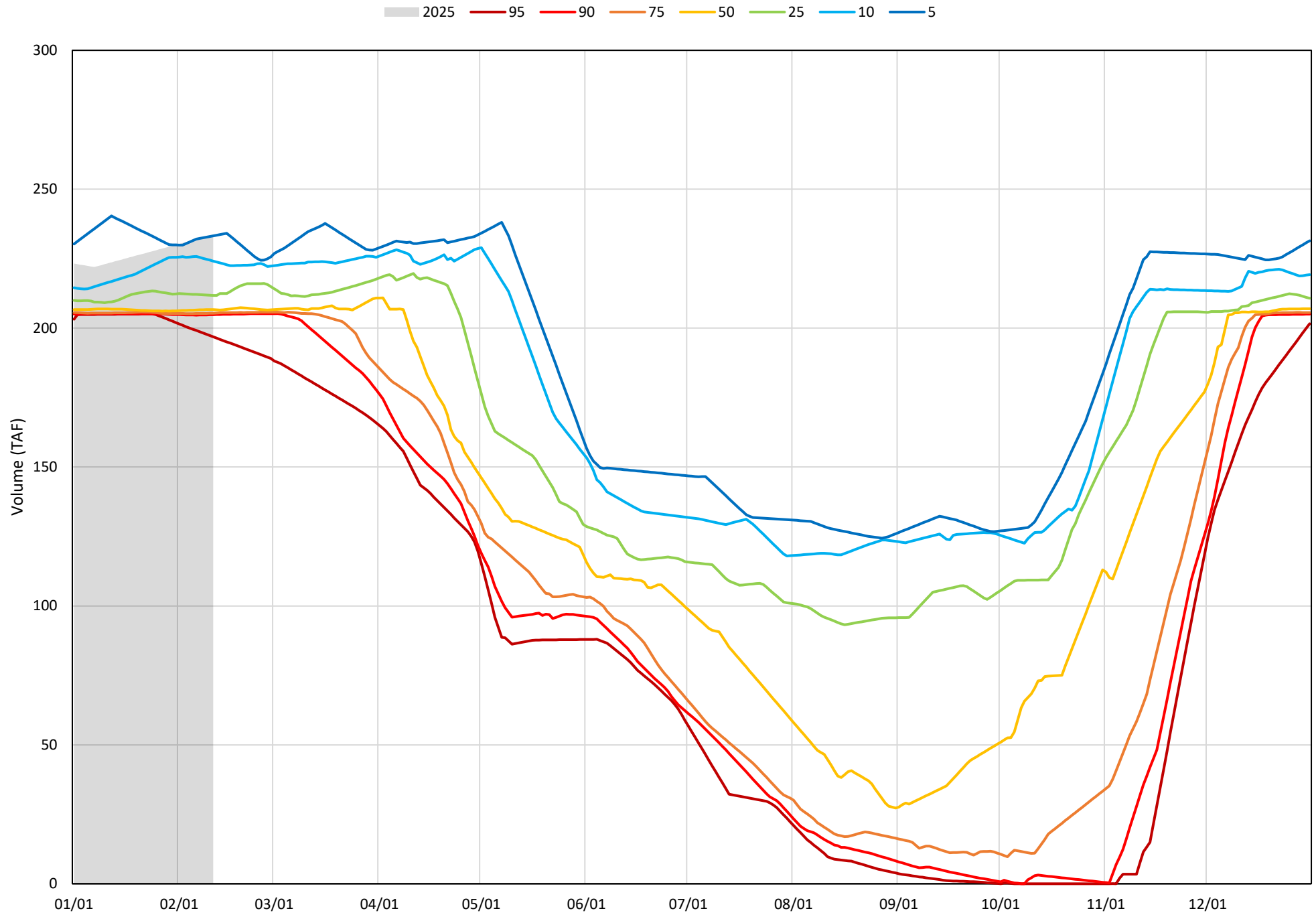


Whiskeytown Lake Cold Water Pool Volume ≤58°F - Percent Exceedances (2000-2024)

2025 95 90 75 50 25 10 5



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



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

Feb-12 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	-26.4	-26.4	-26.4	26.4	-11.3	-11.3	-11.3	11.3
2001	-15.3	-15.3	-15.3	15.3	-6.5	-6.5	-6.5	6.5
2002	-28.2	-28.2	-28.2	28.2	-12.1	-12.1	-12.1	12.1
2003	-28.0	-28.0	-28.0	28.0	-12.0	-12.0	-12.0	12.0
2004	-27.9	-27.9	-27.9	27.9	-11.9	-11.9	-11.9	11.9
2005	-23.5	-23.5	-23.5	23.5	-10.1	-10.1	-10.1	10.1
2006	-27.8	-27.8	-27.8	27.8	-11.9	-11.9	-11.9	11.9
2007	-28.4	-28.4	-28.4	28.4	-12.1	-12.1	-12.1	12.1
2008	-27.5	-27.5	-27.5	27.5	-11.8	-11.8	-11.8	11.8
2009	-24.1	-24.1	-24.1	24.1	-10.3	-10.3	-10.3	10.3
2010	-12.0	-12.0	-12.0	12.0	-5.2	-5.2	-5.2	5.2
2011	-28.4	-28.4	-28.4	28.4	-12.2	-12.2	-12.2	12.2
2012	-37.5	-38.4	-40.2	38.7	-16.0	-16.4	-17.2	16.5
2013	-28.8	-28.8	-28.8	28.8	-12.3	-12.3	-12.3	12.3
2014	-26.9	-26.9	-26.9	26.9	-11.5	-11.5	-11.5	11.5
2015	-28.8	-28.8	-28.8	28.8	-12.3	-12.3	-12.3	12.3
2016	-24.7	-24.7	-24.7	24.7	-10.6	-10.6	-10.6	10.6
2017	1.8	1.8	1.8	1.8	0.8	0.8	0.8	0.8
2018	-28.5	-28.5	-28.5	28.5	-12.2	-12.2	-12.2	12.2
2019	-20.2	-20.2	-20.2	20.2	-8.7	-8.7	-8.7	8.7
2020	-27.0	-27.0	-27.0	27.0	-11.6	-11.6	-11.6	11.6
2021	-26.6	-26.6	-26.6	26.6	-11.4	-11.4	-11.4	11.4
2022	-27.8	-27.8	-27.8	27.8	-11.9	-11.9	-11.9	11.9
2023	-17.5	-17.5	-17.5	17.5	-7.5	-7.5	-7.5	7.5
2024	-5.7	-5.7	-5.7	5.7	-2.5	-2.5	-2.5	2.5
2025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Historical - Current

(Historical - Current) / Current