

Northern CVP Water Temperature Report

April - 2025

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3	- Sacramento River Mean Daily Water Temperature Plot
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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
Mar	48.0	47.3	45.2	47.7	48.1	48.3	49.5	50.1	50.8	48.0	44.9	45.8	46.4	7235	533	8222	53.1	51.8	53.5
04/01	48.9	48.1	50.0	48.8	49.2	49.4	49.9	50.2	50.5	48.6	45.5	46.6	45.7	7360	1217	8294	48.0	48.8	49.6
04/02	49.7	48.4	50.2	48.6	49.1	49.4	50.1	50.3	50.8	49.0	45.3	46.0	46.5	6227	1184	7503	49.5	48.5	50.9
04/03	50.1	48.7	50.5	48.9	49.3	49.8	50.8	51.2	51.8	49.5	45.4	46.3	47.2	6160	625	6652	54.0	51.2	53.7
04/04	49.9	48.8	50.3	49.4	49.8	50.4	51.6	52.2	52.9	49.8	45.7	46.7	47.7	4781	1122	6094	71.5	55.2	56.5
04/05	49.5	? 48.4	50.3	49.7	50.2	50.8	52.4	53.1	53.9	50.3	46.1	47.2	48.4	4134	1180	5852	59.0	57.0	59.4
04/06	49.8	? 48.9	50.1	49.9	50.4	? 51.1	52.9	53.8	54.6	50.5	46.3	47.8	49.0	4457	531	5591	57.5	58.0	60.3
04/07	50.2	48.8	50.1	49.8	50.3	50.9	53.4	54.7	55.3	51.2	46.6	48.4	49.3	5714	808	5578	59.0	60.0	59.8
04/08	49.7	48.6	50.7	49.8	50.5	51.2	53.4	54.4	55.6	51.0	47.0	48.3	48.9	4039	1404	5361	59.0	58.2	59.0
04/09	50.7	48.8	50.4	50.1	50.8	51.7	54.2	55.2	56.2	51.4	47.5	48.8	49.9	4933	554	5143	62.0	60.3	62.8
04/10	50.1	48.9	49.8	50.2	51.0	51.9	54.8	56.2	57.3	52.0	46.4	49.0	50.2	4968	239	4888	64.5	62.0	65.2
04/11	50.5	48.9	#		50.6	51.1	51.8	55.0	57.0	58.1	52.0	46.6	49.0	4692	8	4738	66.5	64.6	67.9
04/12	51.1	? 49.0	#		50.8	51.4	52.3	55.2	56.6	57.7	51.4	46.8	48.9	4233	8	4650	66.5	63.6	65.4
04/13	50.9	? 49.7	#		50.6	51.4	52.3	55.1	56.7	57.7	51.4	47.0	48.8	4867	8	4570	67.0	66.5	67.8
04/14	50.9	49.2	#		50.8	51.5	52.5	55.1	56.5	57.7	51.6	46.9	48.9	5209	8	4587	65.0	62.2	65.9
04/15	50.5	49.0	#		51.3	52.0	53.0	55.7	57.1	58.2	52.0	47.0	49.1	4679	10	4802	67.0	62.0	65.5
04/16	50.6	49.1	50.6	51.2	51.7	52.4	55.9	58.0	59.3	52.7	47.3	49.2	50.3	7047	623	8339	64.5	61.8	63.1
04/17	51.2	49.9	49.4	50.6	51.3	51.9	54.3	55.9	57.6	52.4	46.0	48.8	49.5	10261	72	10067	65.0	63.7	64.6
04/18	51.8	50.2	#		50.7	51.1	51.6	53.4	54.8	56.2	51.5	45.4	48.4	9912	8	10109	64.0	61.8	64.0
04/19	52.3	50.4	#		51.2	51.4	52.0	53.4	54.5	55.6	51.5	45.5	47.9	8373	61	9915	61.0	57.7	61.2
04/20	52.2	50.3	50.7	51.4	51.8	52.6	54.4	55.2	56.2	52.0	? 45.9	? 47.9	? 47.9	7906	521	8697	64.0	60.8	63.7
04/21	51.9	50.2	50.3	51.7	52.2	53.0	55.0	56.2	57.4	52.2	45.9	47.9	48.8	7607	210	7721	69.5	64.0	65.7
04/22	51.2	49.9	50.4	51.7	52.2	53.1	55.5	56.8	57.9	52.4	46.1	48.0	49.0	6740	232	6669	65.5	61.9	66.3
04/23	51.3	49.8	#		51.8	52.5	53.5	55.9	57.6	58.7	52.8	46.2	48.0	5648	8	6082	65.5	62.2	63.0
04/24	51.3	50.0	#		51.7	52.3	53.2	55.9	57.6	58.8	52.7	46.4	48.2	6042	47	6221	61.5	58.0	55.8
04/25	50.8	49.5	48.6	51.7	51.9	52.3	54.5	56.3	57.6	51.2	46.6	48.3	49.5	6257	47	6221	57.5	55.5	54.7
04/26	50.7	49.4	#		51.2	51.6	51.9	53.1	54.0	54.8	50.4	46.8	48.2	5967	9	6251	54.5	50.6	50.5
04/27	51.1	49.7		50.7	51.0	51.2	52.4	53.3	53.9	50.4	46.0	48.1	49.4	5941	9	6289	54.5	52.8	52.6
04/28	51.2	? 50.2	48.8	51.0	51.5	52.3	53.6	54.1	54.9	52.2	46.2	48.1	49.7	5989	52	6145	64.5	62.0	60.3
04/29	52.8	51.3	51.1	51.9	52.0	52.4	54.5	55.8	57.0	52.5	46.5	48.4	50.2	8451	483	10992	67.5	65.2	64.2
04/30	53.0	52.3	51.3	52.4	52.7	53.4	55.2	56.3	57.1	53.2	46.5	48.7	50.6	10685	841	10863	75.5	69.6	66.3
-																			
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
													Total CFS	189279	12129	204884			
													Total AF	375427	24057	406379			

Legend

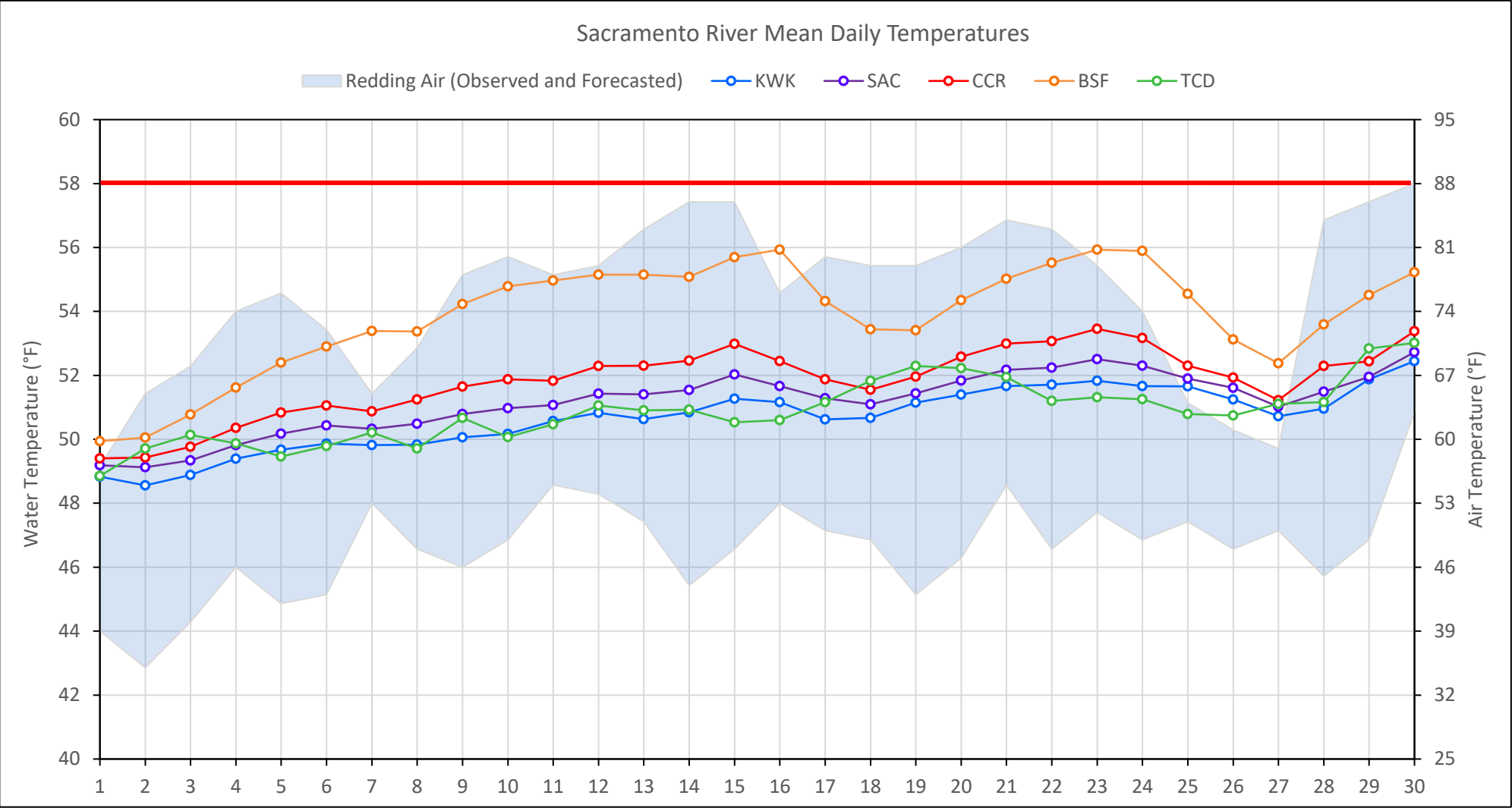
Notes

- ? = 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)



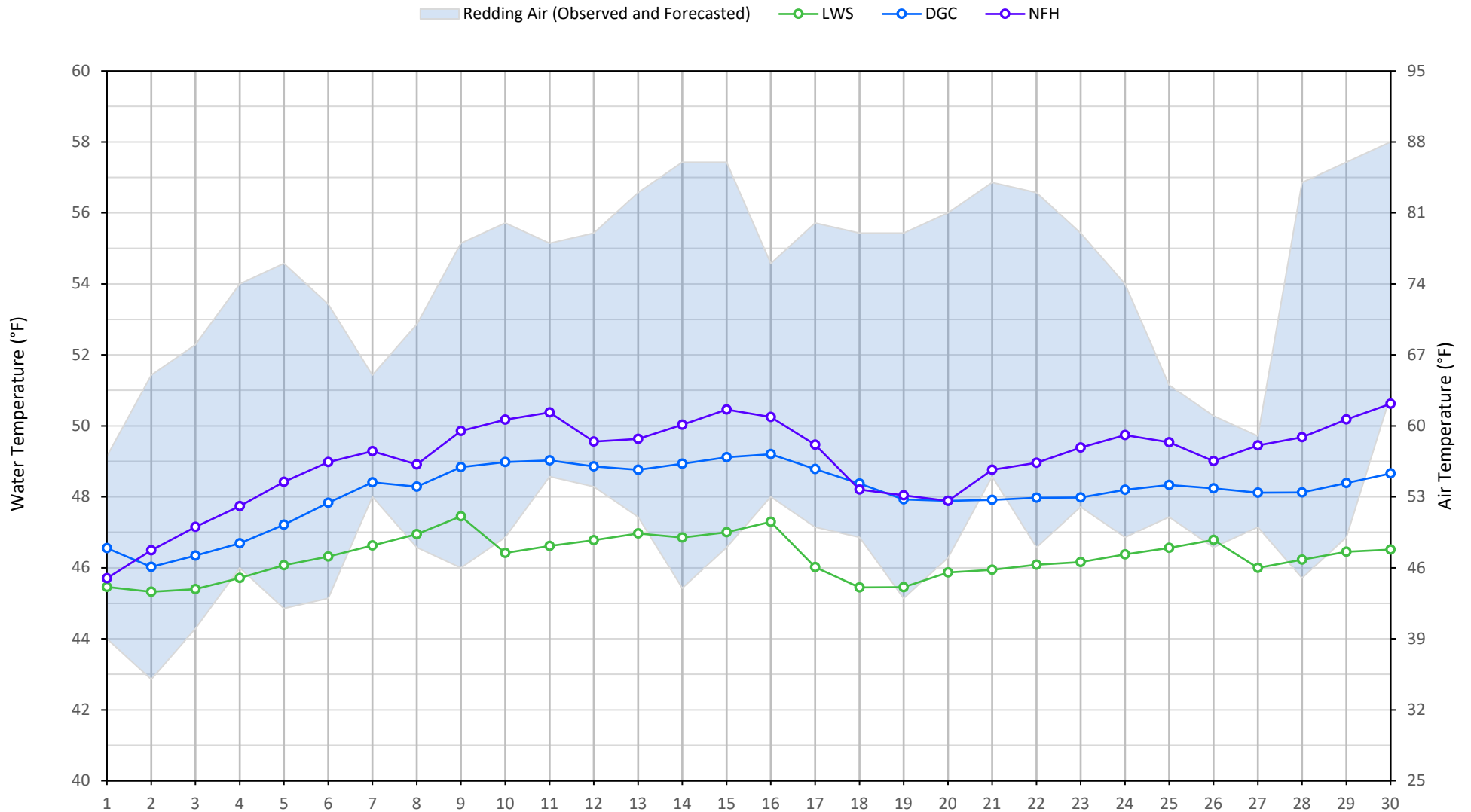
Station Details			
Code	Body of Water	Location ¹	CDEC Link
TCD	N/A	Shasta Power Plant	N/A
SHD	Sacramento River	0.3 miles downstream of Shasta Power Plant	Click Here
SPP	N/A	Spring Creek Power Plant	N/A
KWK	Sacramento River	0.8 miles downstream of Keswick Dam	Click Here
SAC	Sacramento River	4.8 miles 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	03/01/2025	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

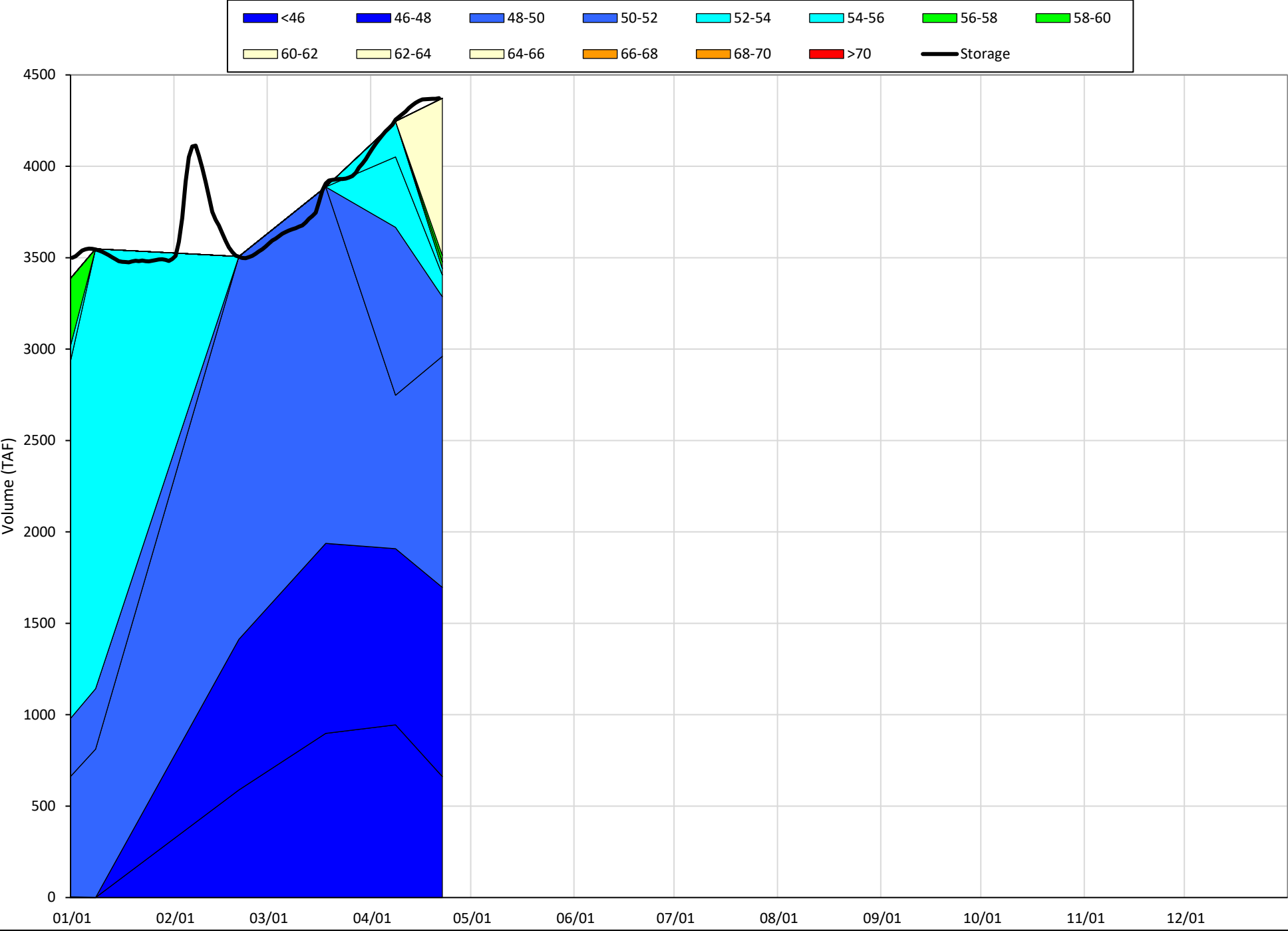
¹ Distances are approximate

Shasta Lake Isothermobaths & Cold Water Pool Statistics

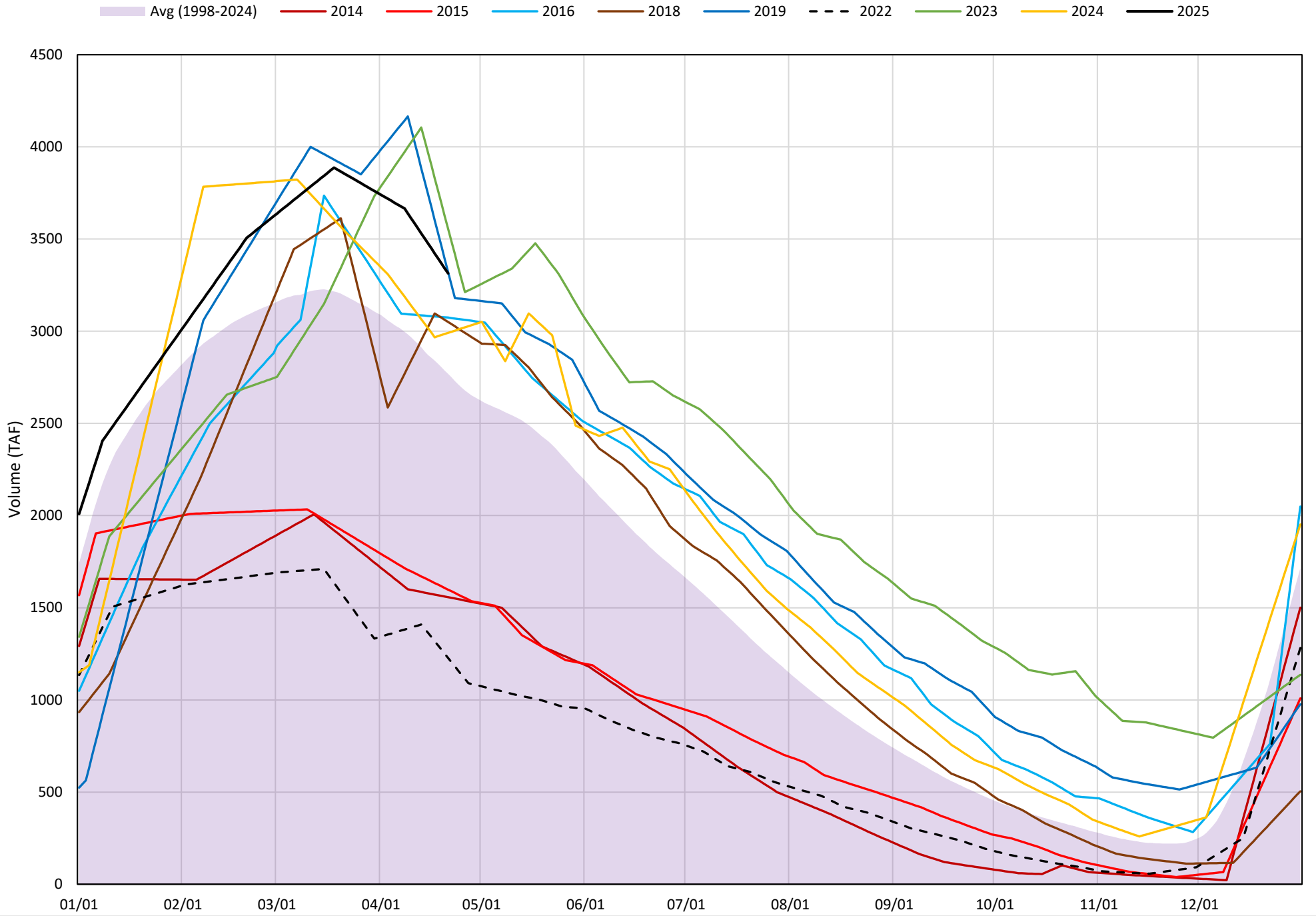
2025

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12	- Shasta Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$ - Percent Exceedances
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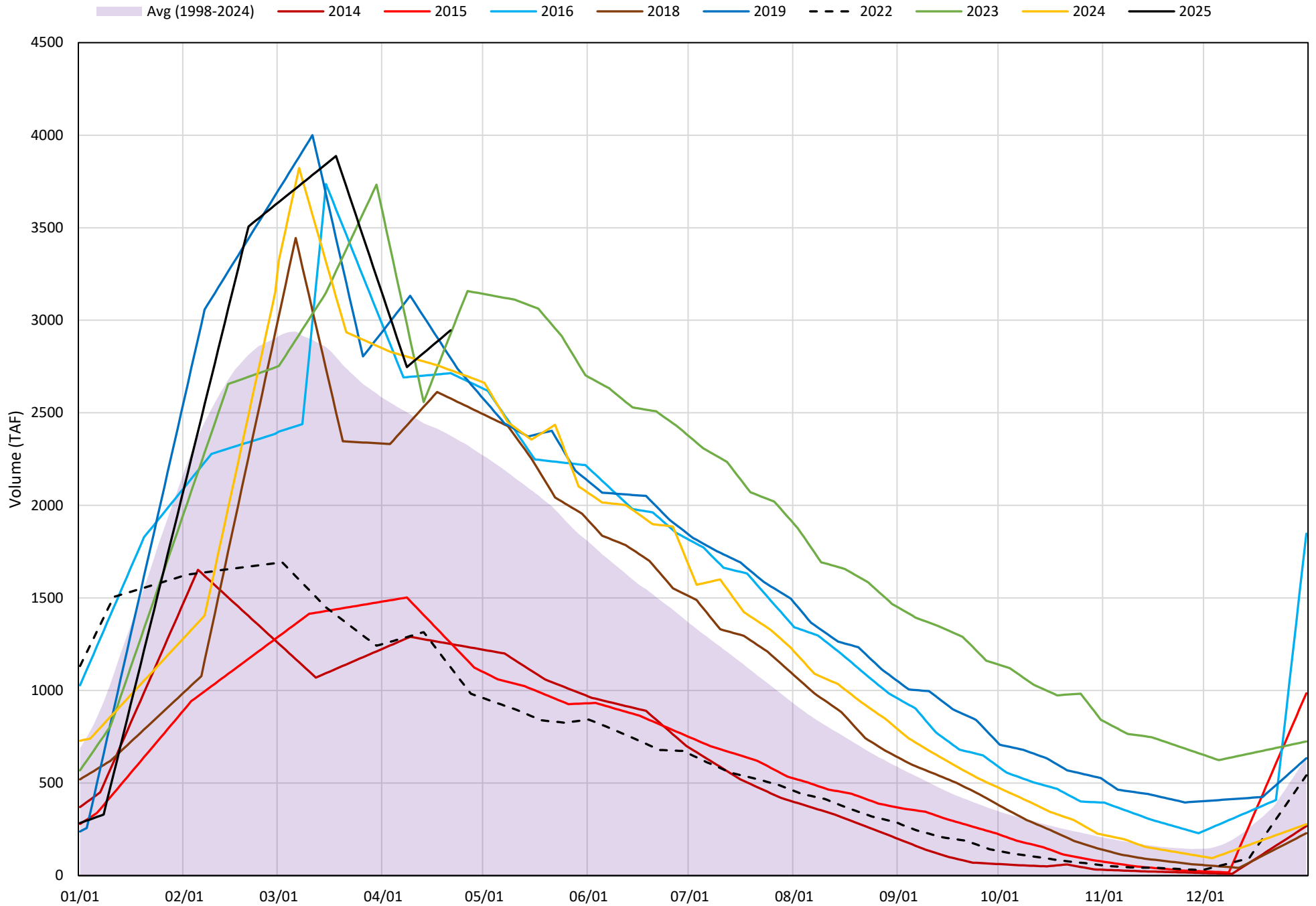
Shasta Lake Isothermobaths Plot - 2025



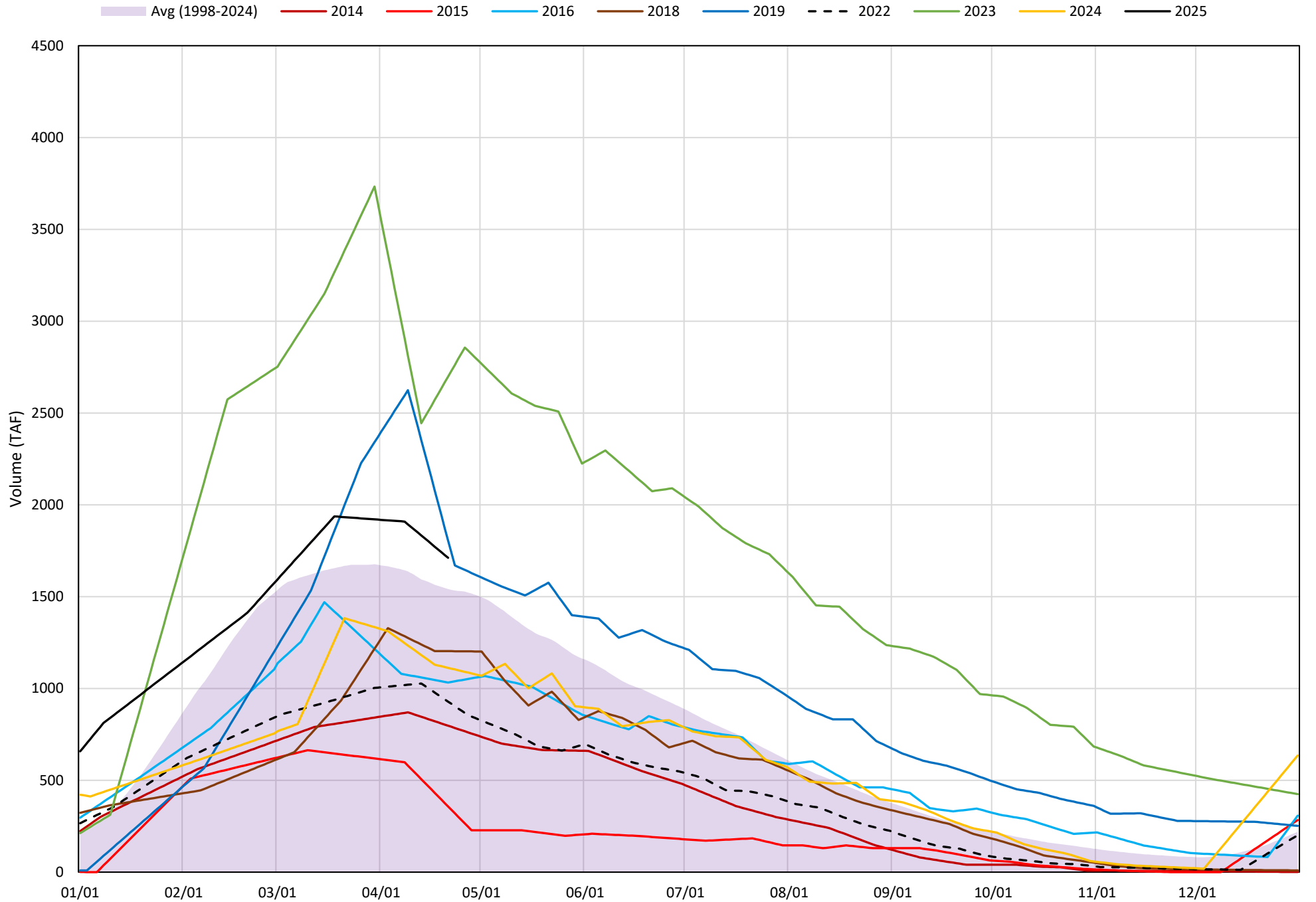
Shasta Lake Cold Water Pool Volume ≤52°F



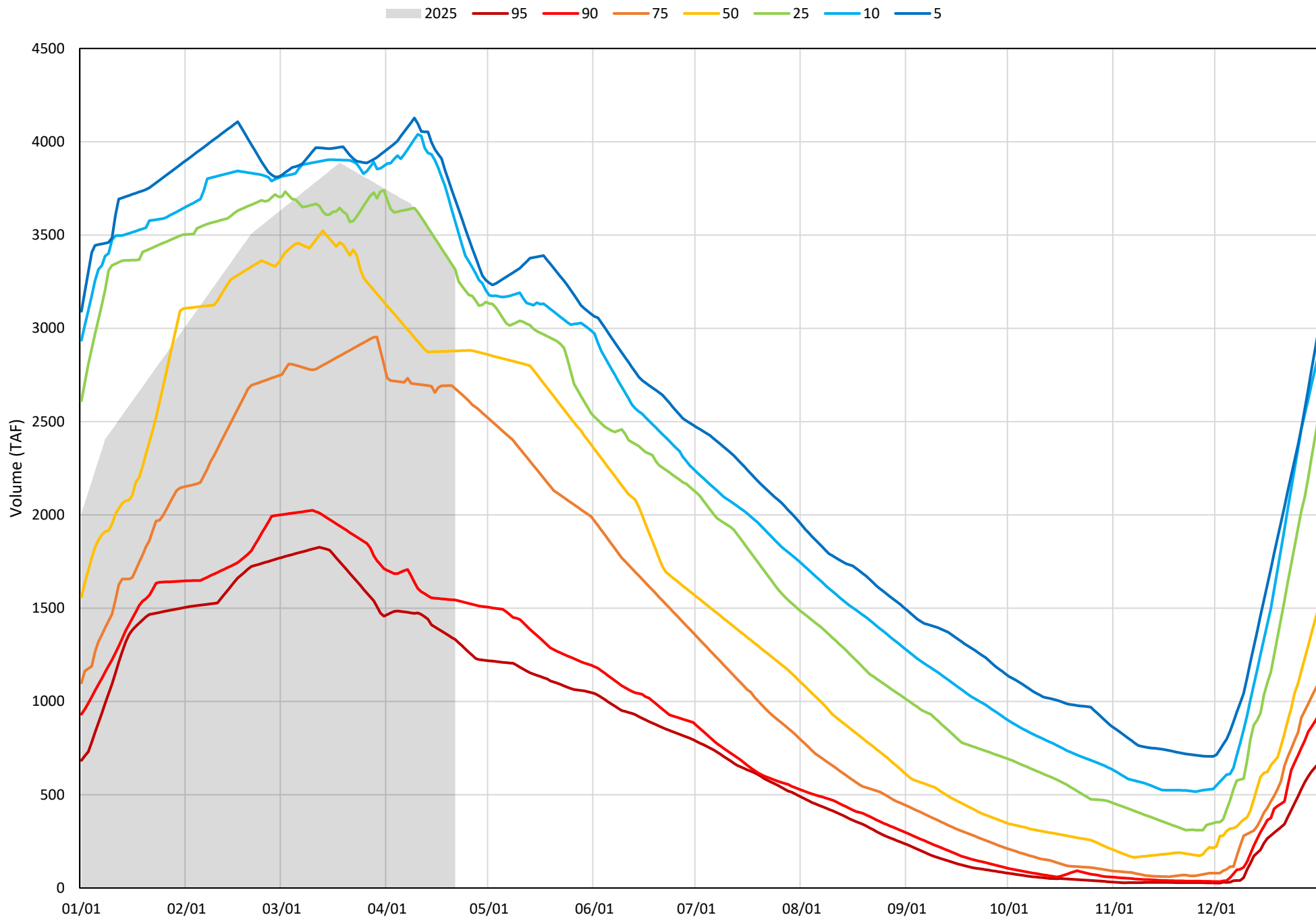
Shasta Lake Cold Water Pool Volume ≤50°F



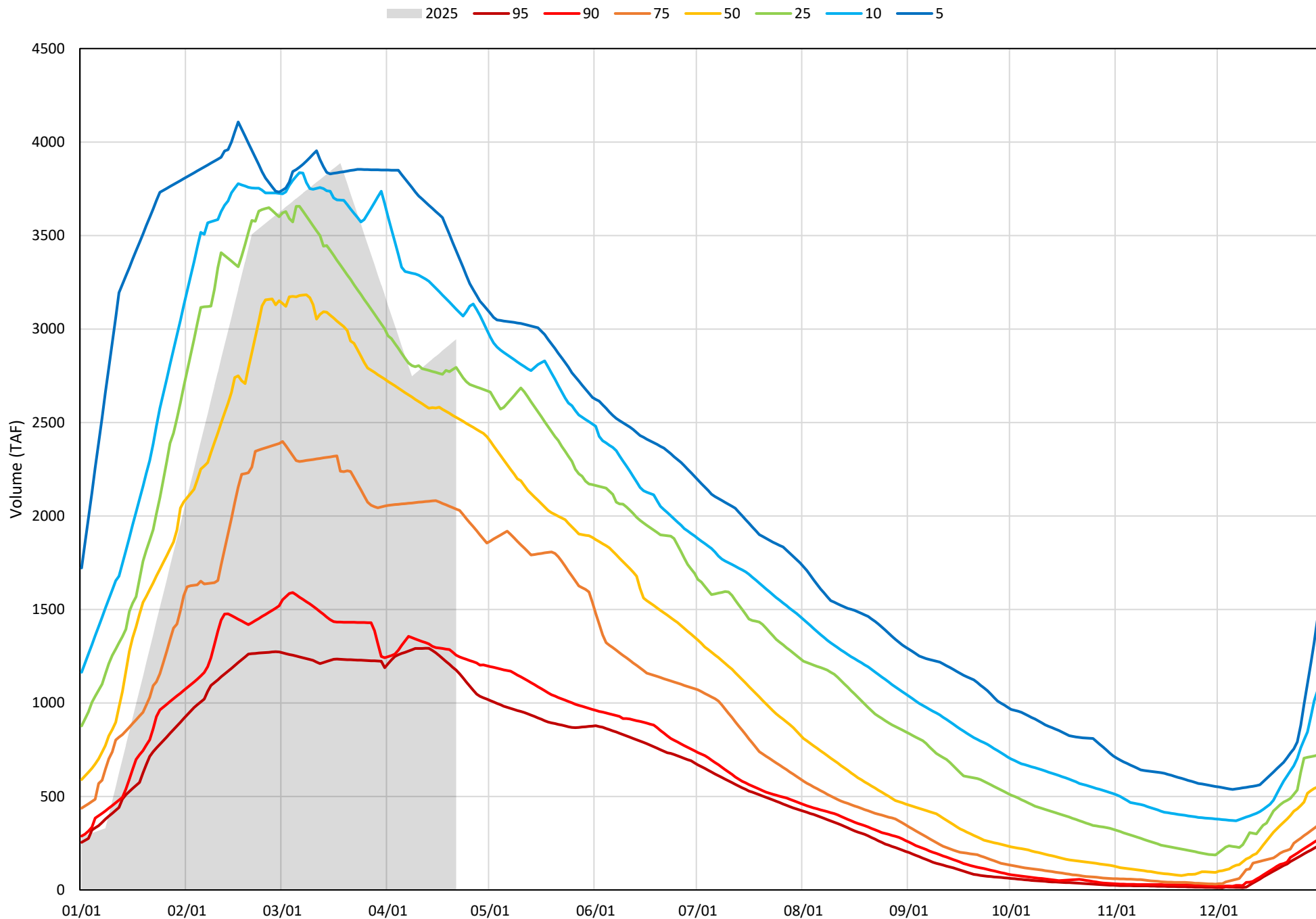
Shasta Lake Cold Water Pool Volume ≤48°F



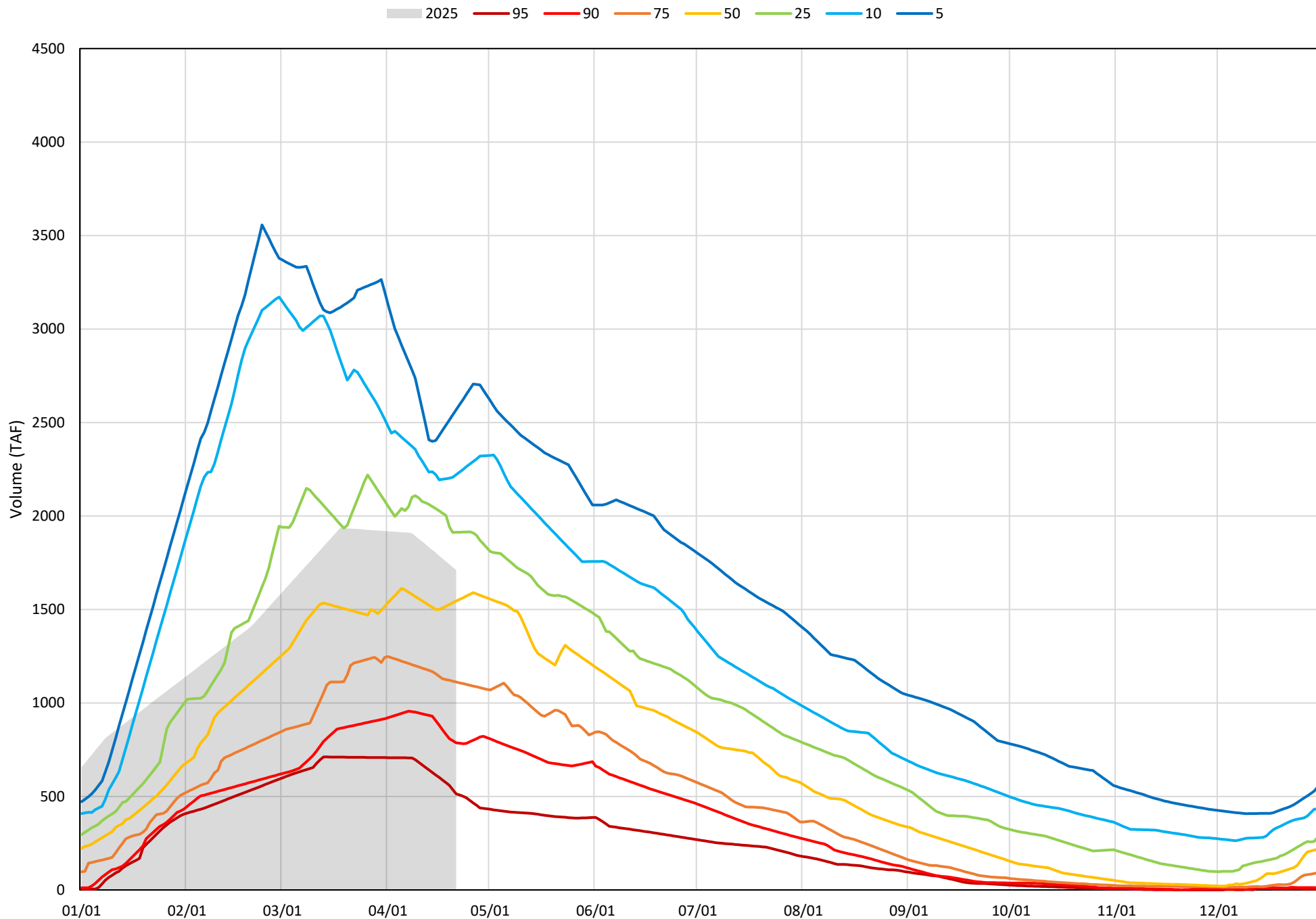
Shasta Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances (1998-2024)



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)

Apr-22 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	-42	-65	662	256	-1	-2	39	14
1999	126	110	455	231	4	4	27	11
2000	-594	-764	-426	595	-18	-26	-25	23
2001	-592	-466	257	438	-18	-16	15	16
2002	-331	-257	166	251	-10	-9	10	9
2003	-435	-614	-426	492	-13	-21	-25	20
2004	-618	-495	-167	426	-19	-17	-10	15
2005	-620	-601	-554	591	-19	-20	-32	24
2006	410	546	119	358	12	19	7	13
2007	-567	-418	150	378	-17	-14	9	13
2008	-1176	-1260	-291	909	-35	-43	-17	32
2009	-1450	-1267	-240	986	-44	-43	-14	34
2010	2	-331	201	178	0	-11	12	8
2011	128	362	471	321	4	12	28	15
2012	325	-151	119	198	10	-5	7	7
2013	-637	-553	14	401	-19	-19	1	13
2014	-1756	-1694	-914	1455	-53	-58	-53	55
2015	-1715	-1689	-1354	1586	-52	-57	-79	63
2016	-240	-232	-679	383	-7	-8	-40	18
2017	-180	-385	334	299	-5	-13	19	13
2018	-263	-368	-508	380	-8	-13	-30	17
2019	7	-150	94	84	0	-5	6	4
2020	-499	-909	-725	711	-15	-31	-42	29
2021	-1825	-1659	-963	1482	-55	-56	-56	56
2022	-2086	-1821	-783	1563	-63	-62	-46	57
2023	242	-18	987	416	7	-1	58	22
2024	-322	-216	-599	379	-10	-7	-35	17
2025	0	0	0	0	0	0	0	0

Historical - Current

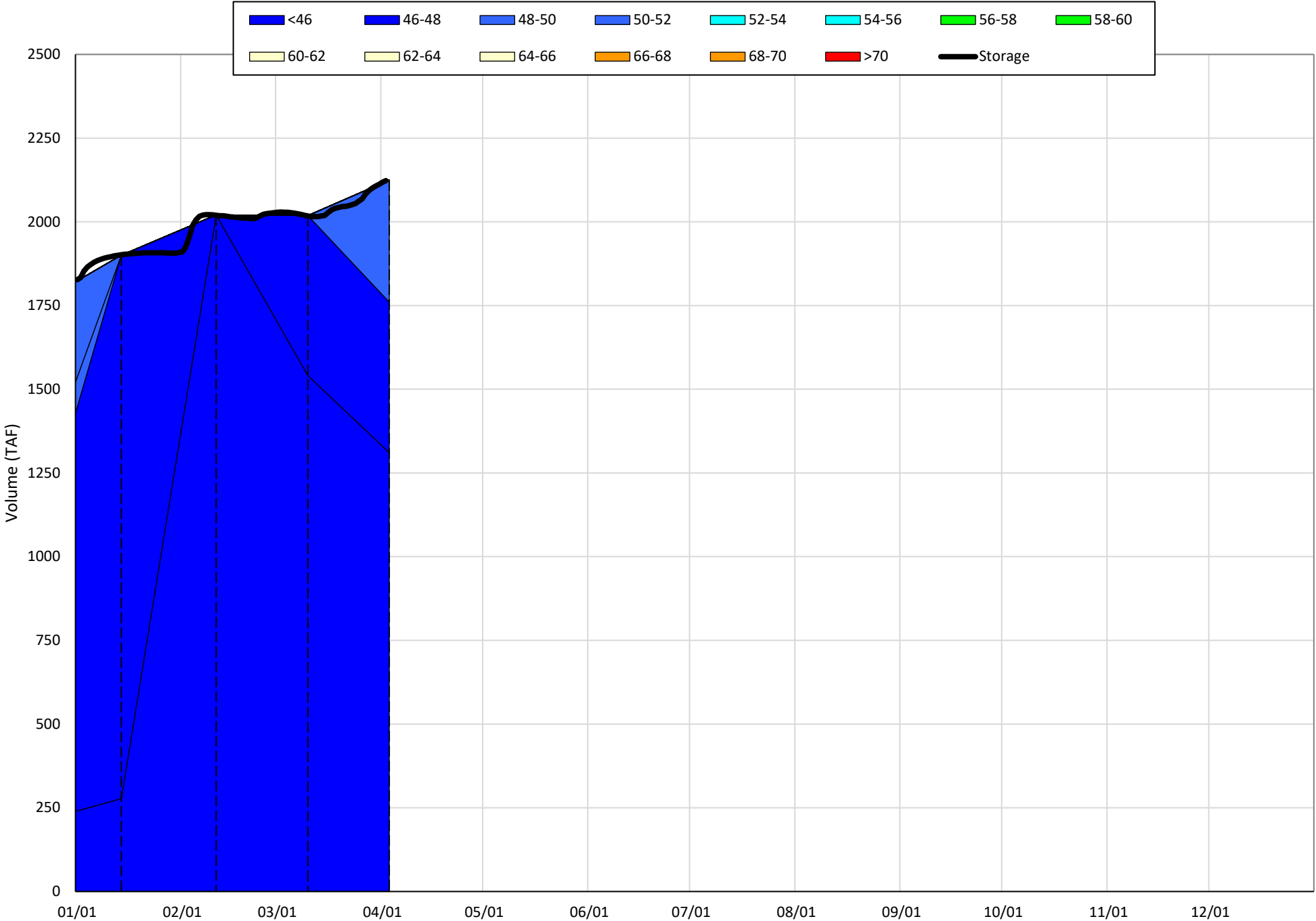
(Historical - Current) / Current

Trinity Lake Isothermobaths & Cold Water Pool Statistics

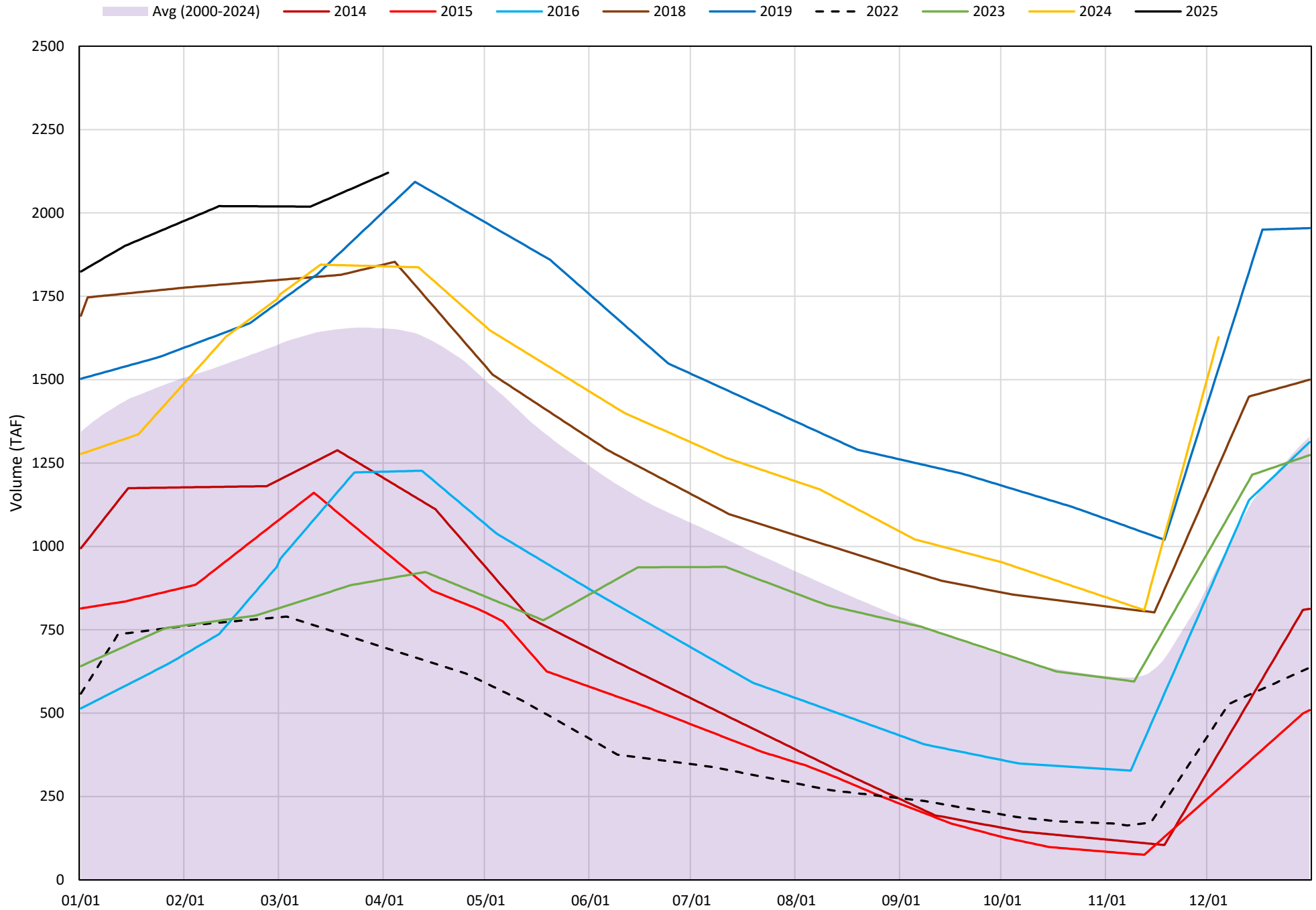
2025

Page	Description
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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

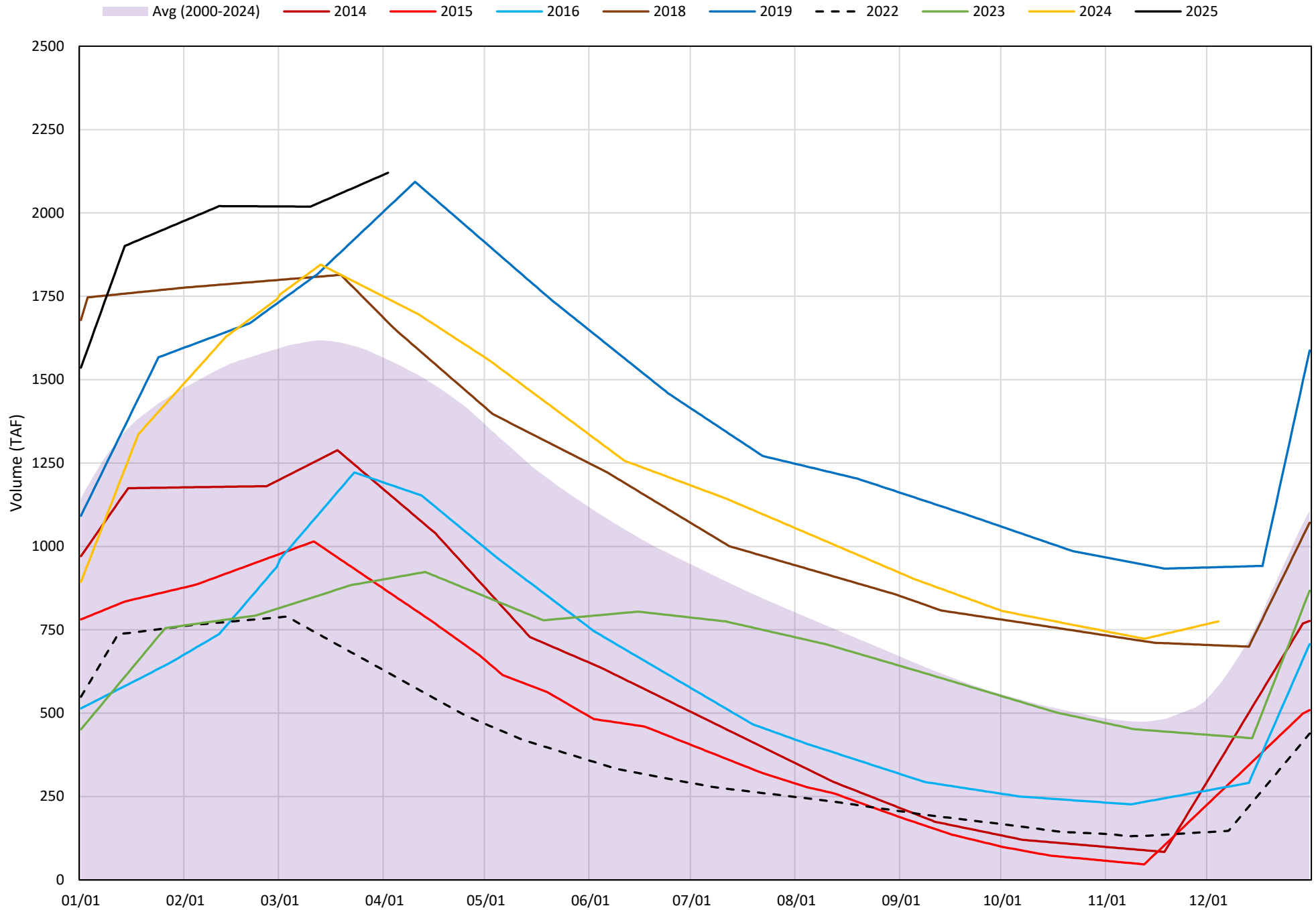
Trinity Lake Isothermobaths Plot - 2025



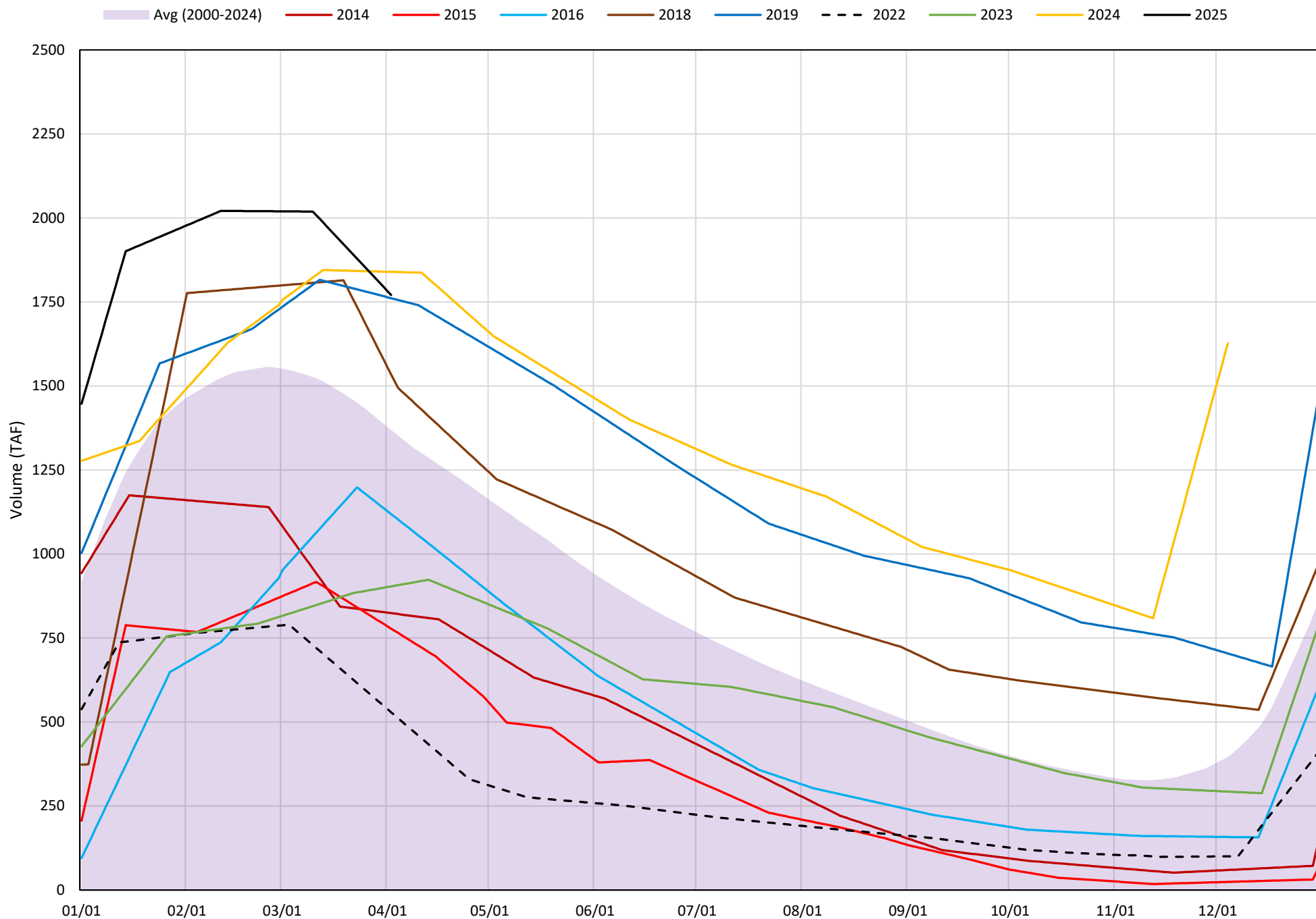
Trinity Lake Cold Water Pool Volume ≤52°F



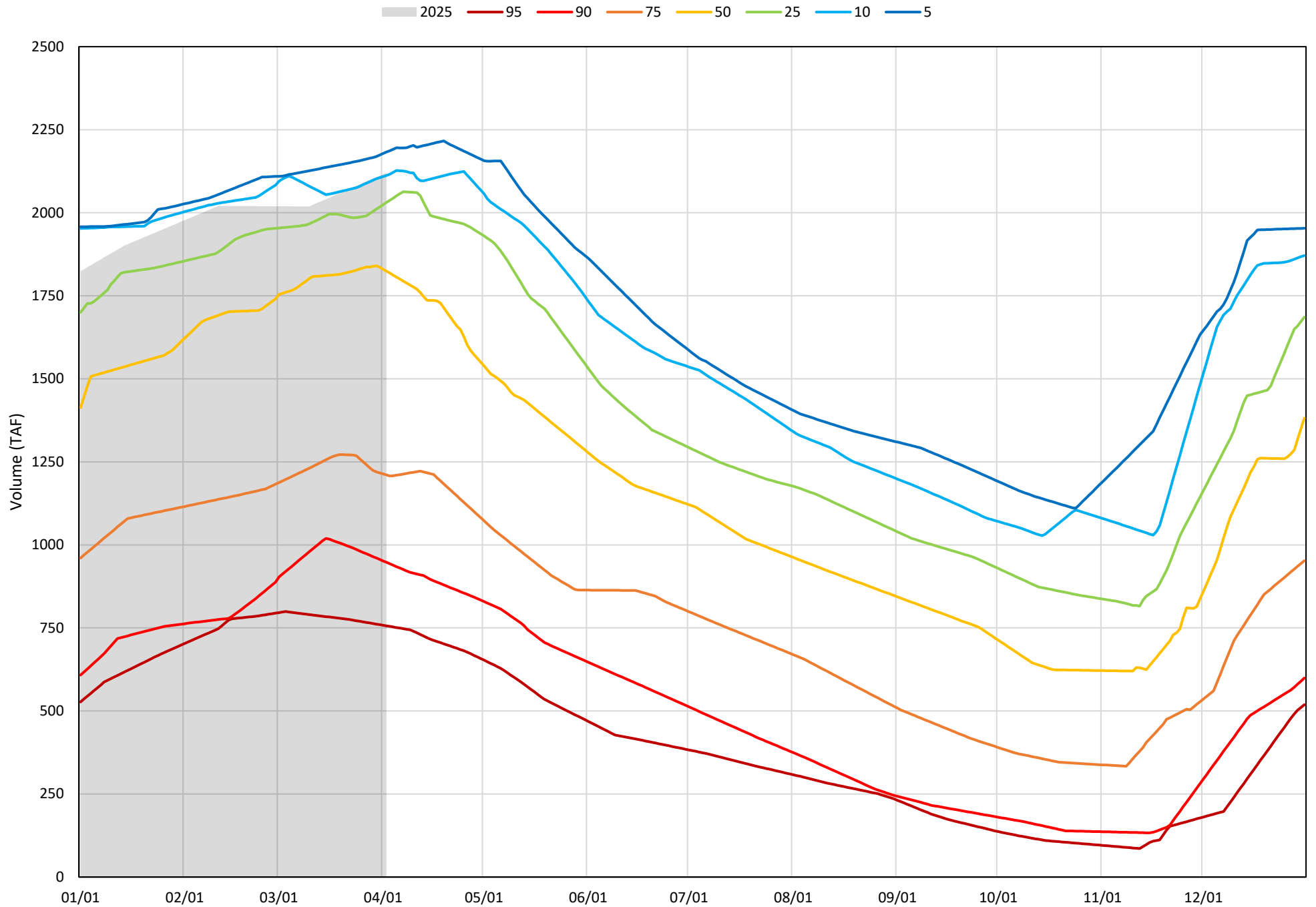
Trinity Lake Cold Water Pool Volume ≤50°F



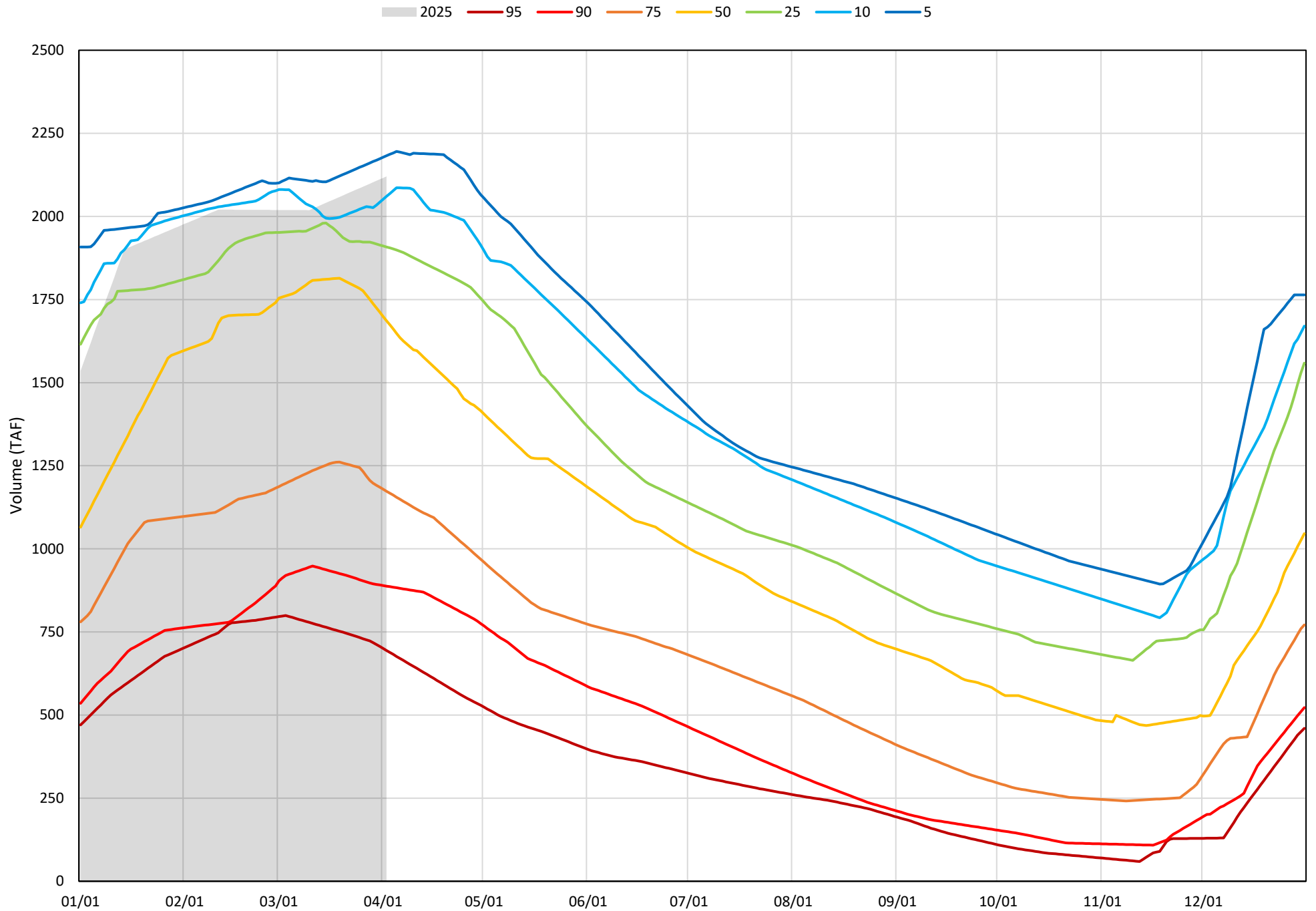
Trinity Lake Cold Water Pool Volume ≤48°F



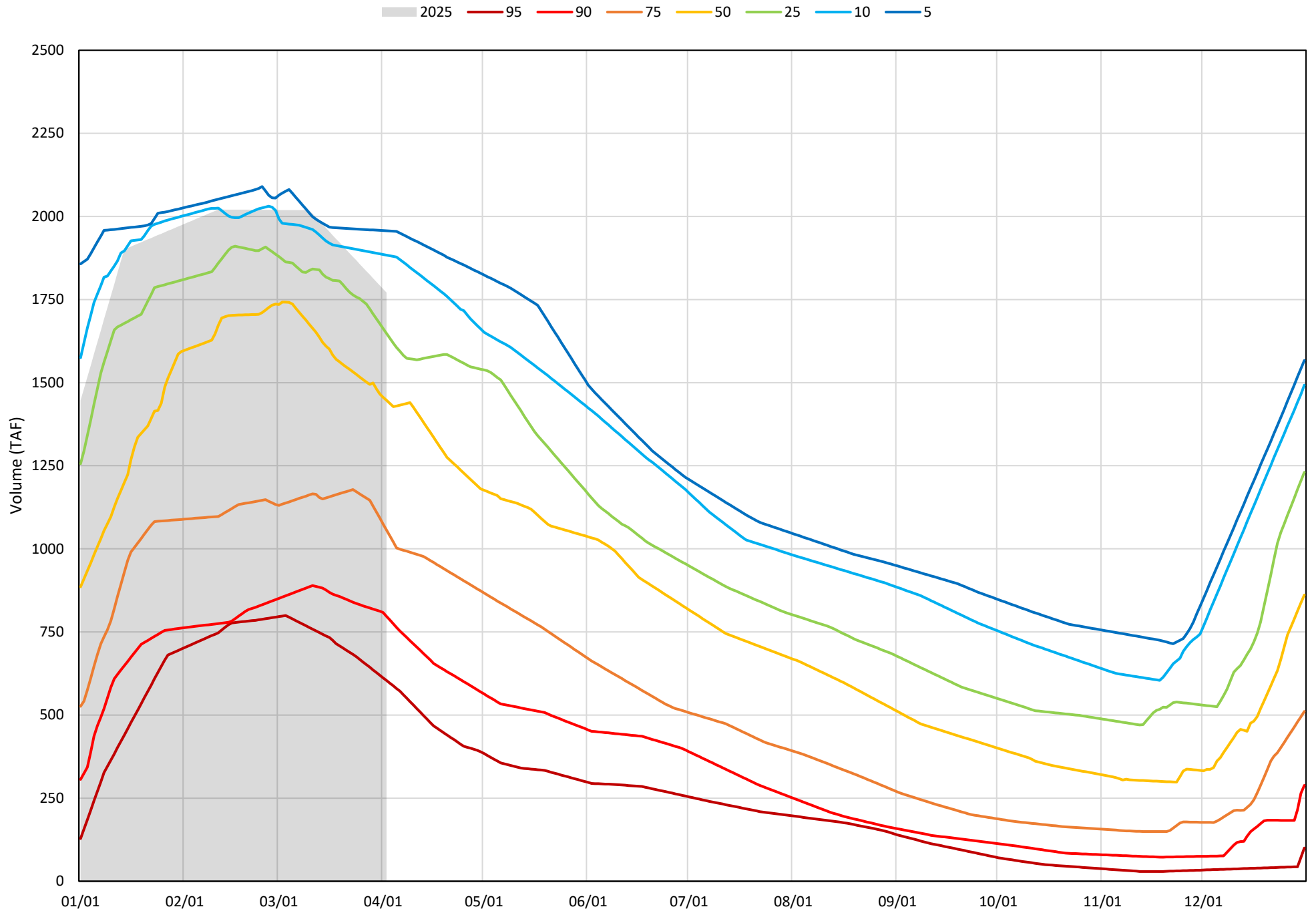
Trinity Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances (2000-2024)



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)

Apr-03 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	-17	-158	-242	139	-1	-7	-14	7
2001	-498	-561	-324	461	-23	-26	-18	23
2002	-336	-365	-122	274	-16	-17	-7	13
2003	-75	-171	-349	198	-4	-8	-20	10
2004	-246	-356	-123	242	-12	-17	-7	12
2005	-389	-754	-588	577	-18	-36	-33	29
2006	86	86	189	121	4	4	11	6
2007	-297	-434	-255	328	-14	-20	-14	16
2008	-527	-537	-345	469	-25	-25	-19	23
2009	-936	-1033	-961	977	-44	-49	-54	49
2010	-784	-836	-663	761	-37	-39	-37	38
2011	5	5	178	63	0	0	10	4
2012	-162	-236	69	156	-8	-11	4	8
2013	-20	-278	-229	176	-1	-13	-13	9
2014	-924	-961	-947	944	-44	-45	-53	47
2015	-1144	-1256	-993	1131	-54	-59	-56	56
2016	-896	-933	-652	827	-42	-44	-37	41
2017	-60	-188	14	88	-3	-9	1	4
2018	-272	-449	-236	319	-13	-21	-13	16
2019	-104	-104	-10	72	-5	-5	-1	3
2020	-227	-402	-439	356	-11	-19	-25	18
2021	-944	-1010	-766	907	-45	-48	-43	45
2022	-1427	-1499	-1242	1389	-67	-71	-70	69
2023	-1217	-1217	-867	1100	-57	-57	-49	55
2024	-281	-378	-136	265	-13	-18	-8	13
2025	0	0	0	0	0	0	0	0

Historical - Current

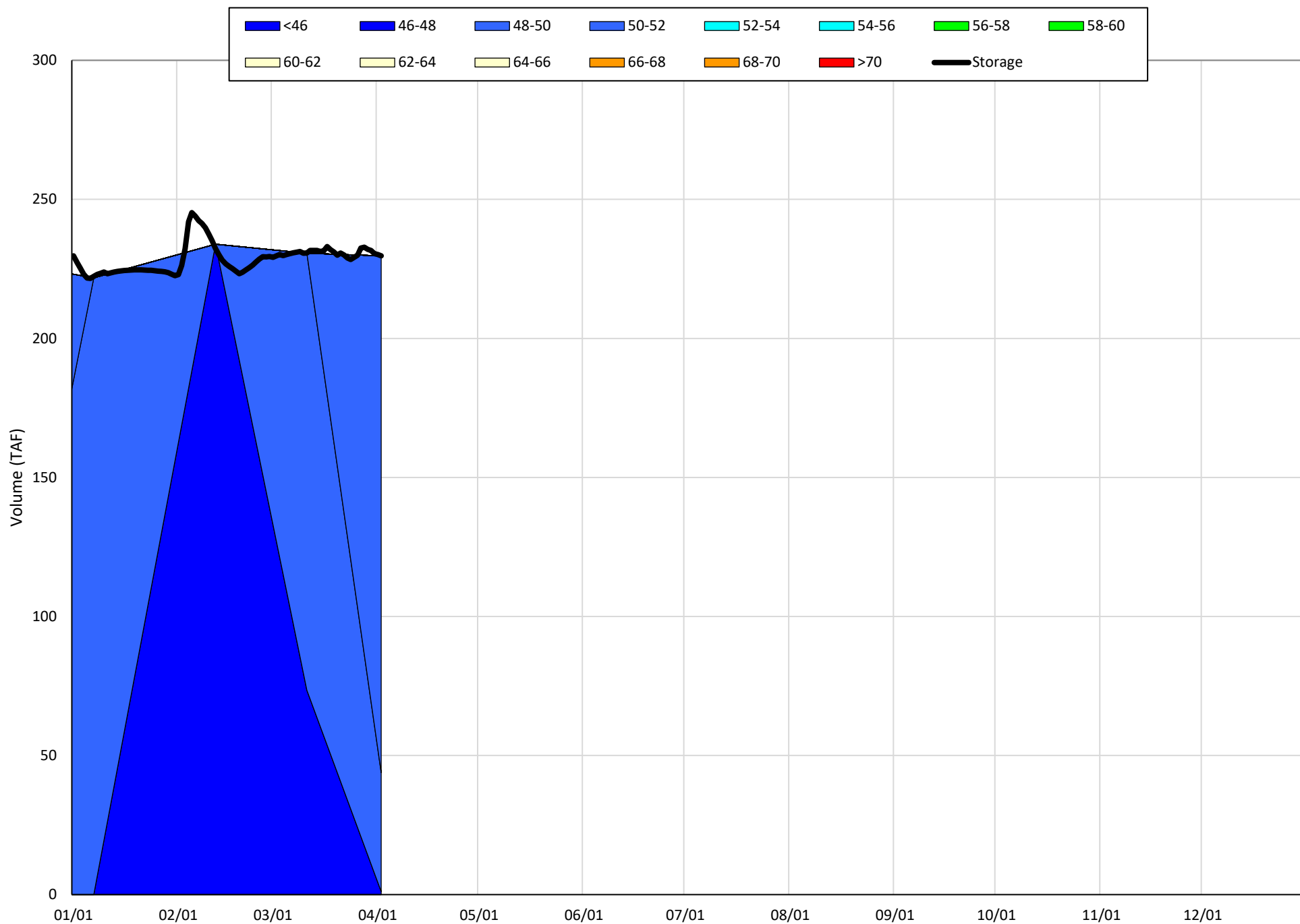
(Historical - Current) / Current

Whiskeytown Lake Isothermobaths & Cold Water Pool Statistics

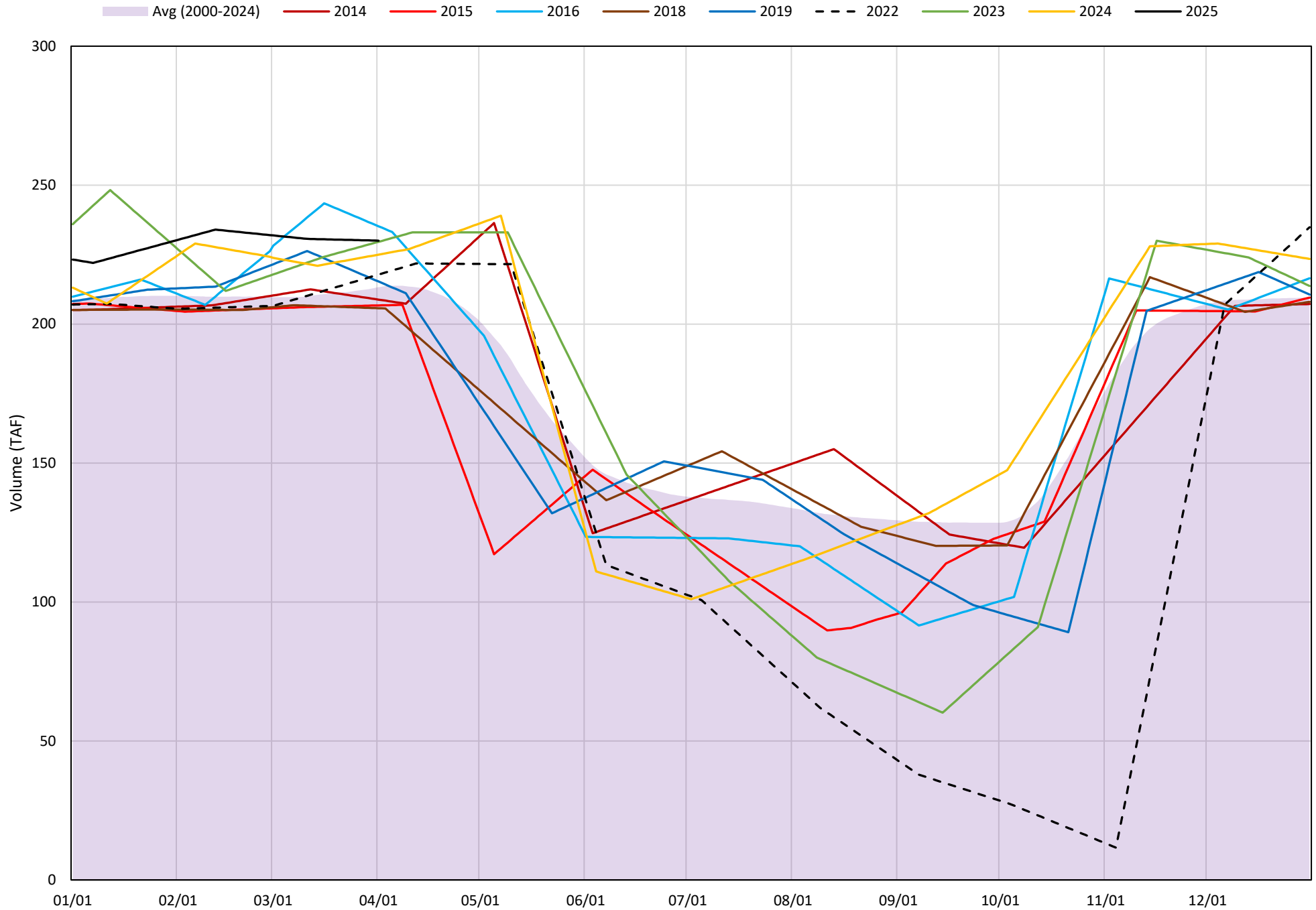
2025

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24	- Whiskeytown Lake Isothermobaths Plot
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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

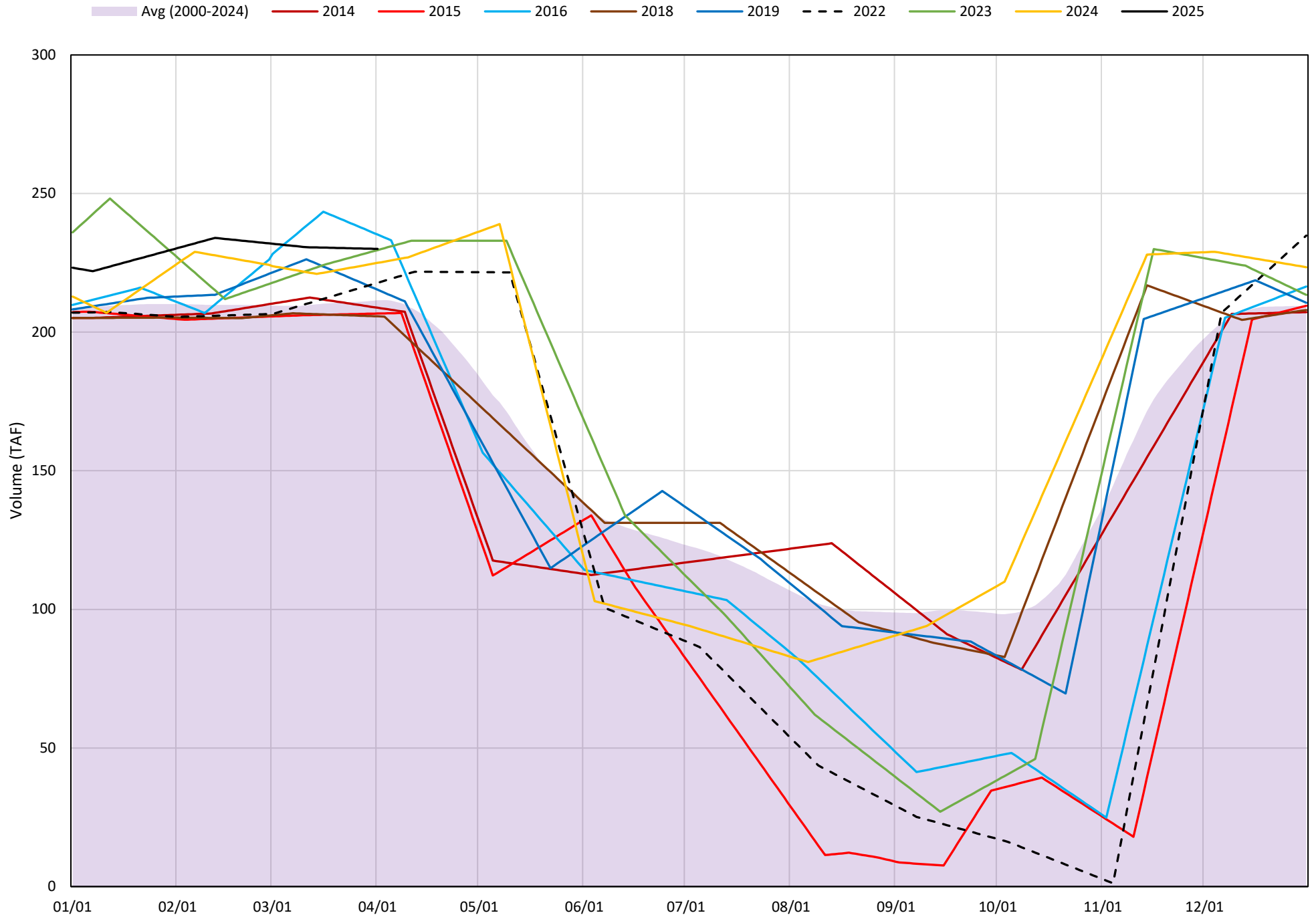
Whiskeytown Lake Isothermobaths Plot - 2025



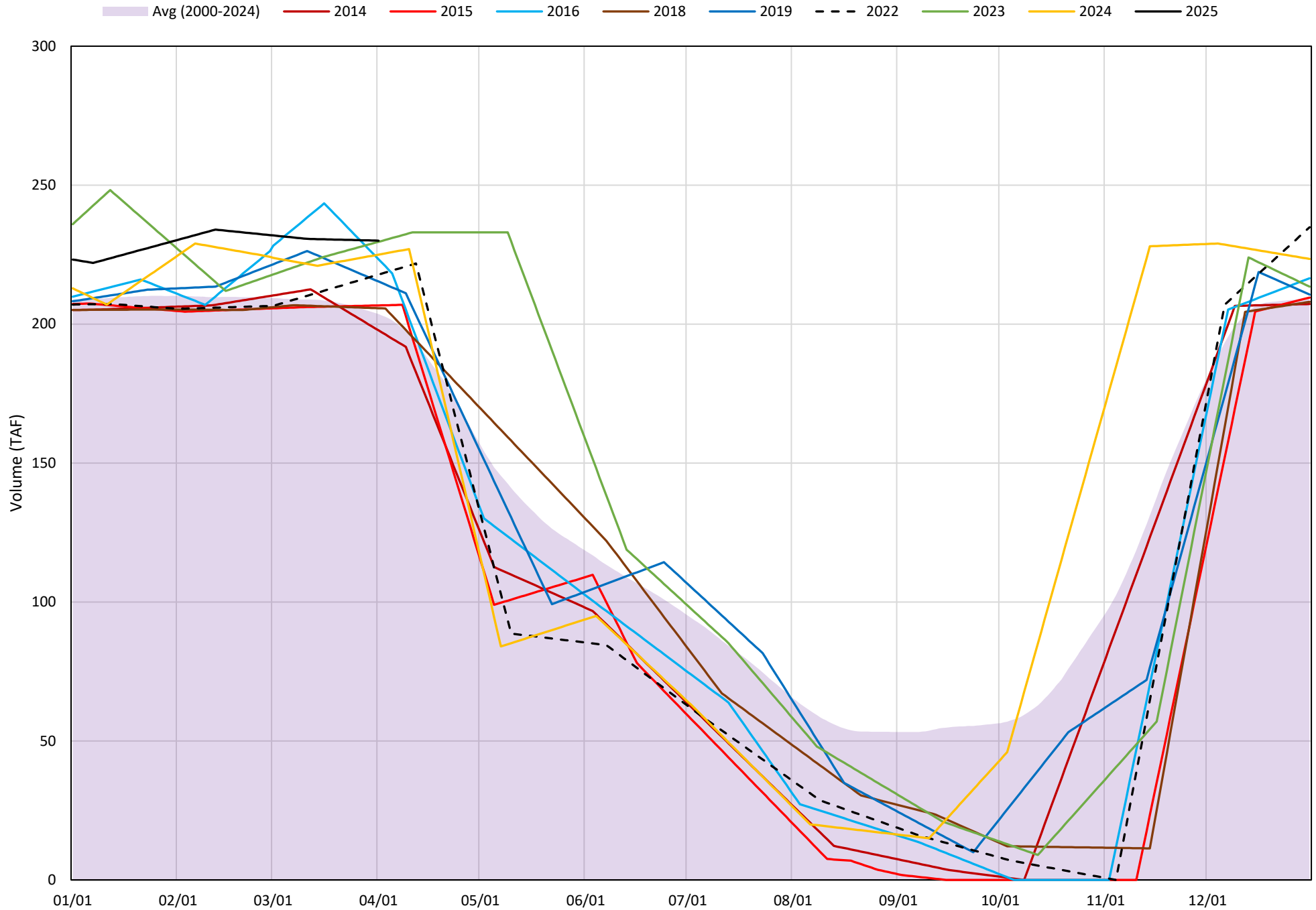
Whiskeytown Lake Cold Water Pool Volume ≤60°F



Whiskeytown Lake Cold Water Pool Volume ≤58°F

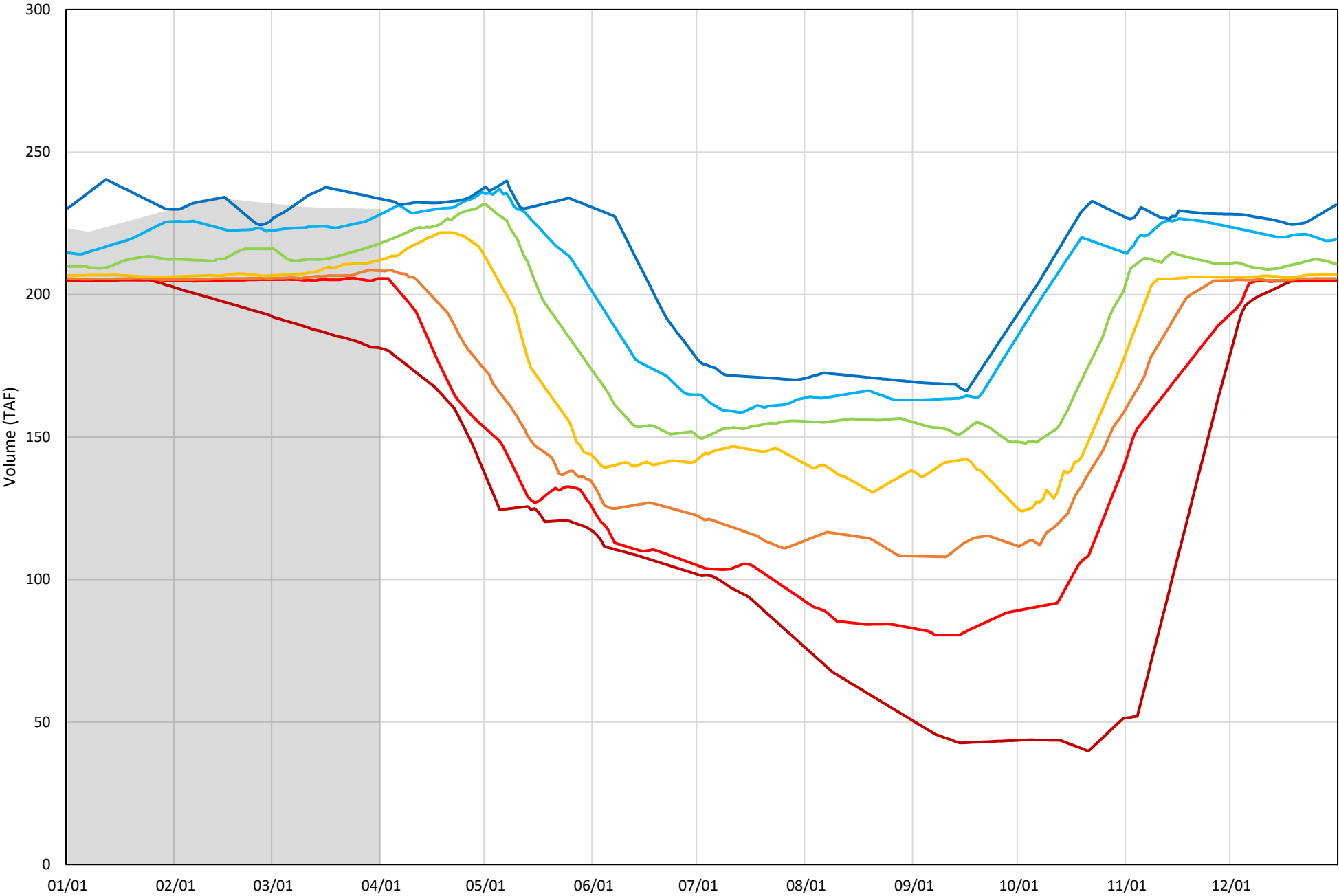


Whiskeytown Lake Cold Water Pool Volume ≤56°F



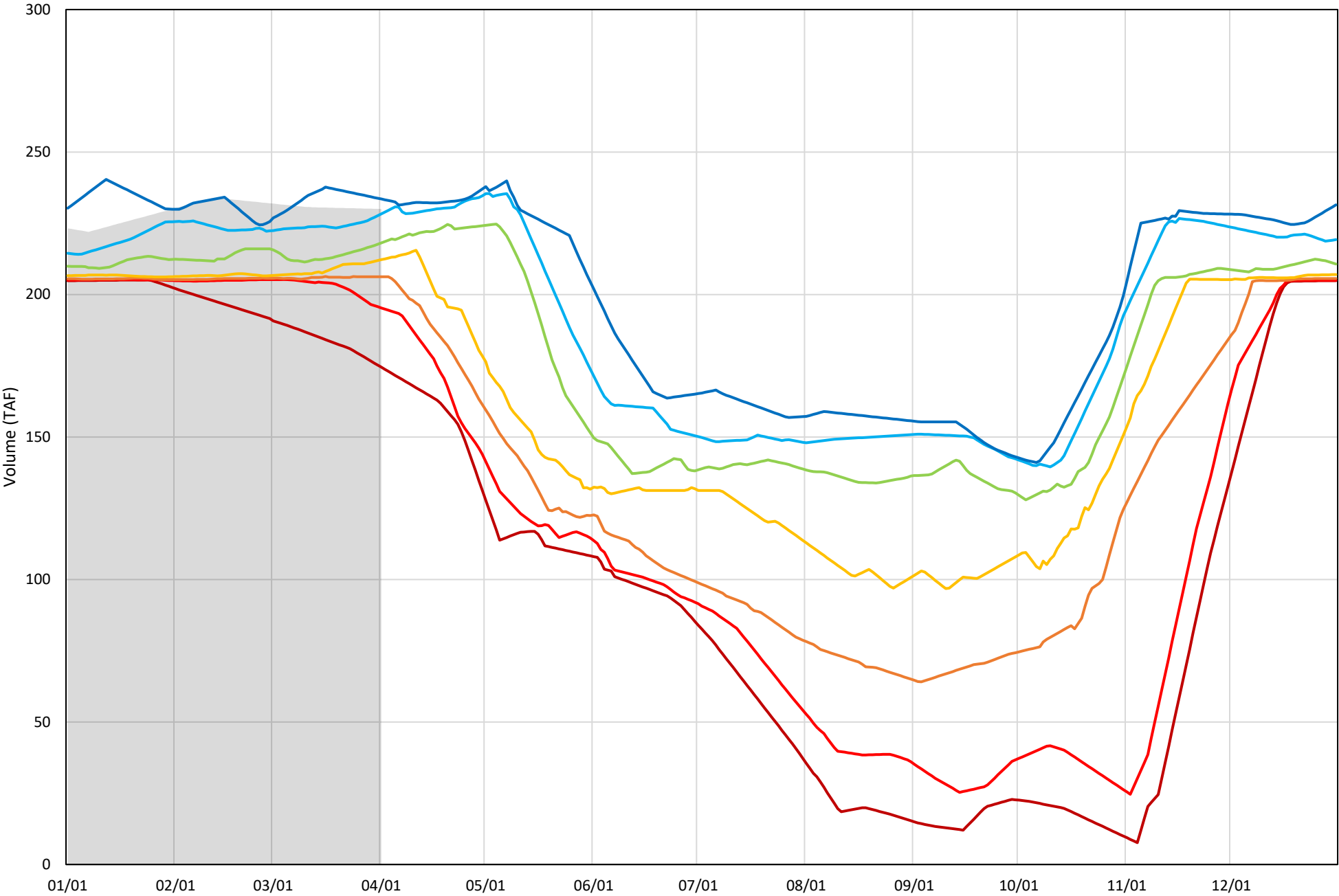
Whiskeytown Lake Cold Water Pool Volume ≤60°F - Percent Exceedances (2000-2024)

2025 95 90 75 50 25 10 5



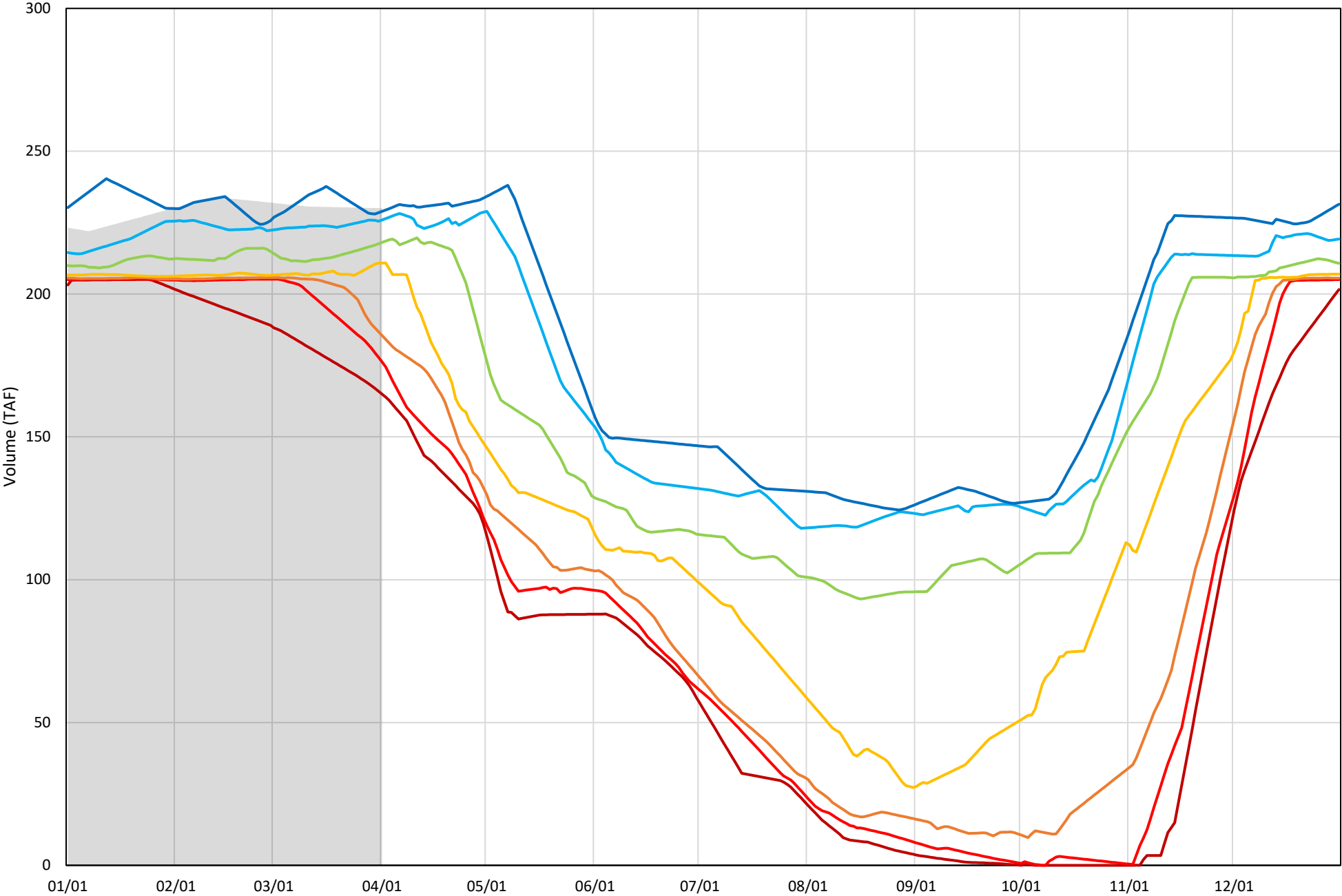
Whiskeytown Lake Cold Water Pool Volume ≤58°F - Percent Exceedances (2000-2024)

2025 95 90 75 50 25 10 5



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)

Apr-02 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	-13.3	-13.3	-53.5	26.7	-5.8	-5.8	-23.3	11.6
2001	-23.4	-32.3	-54.3	36.7	-10.2	-14.0	-23.6	15.9
2002	-18.2	-38.3	-47.2	34.6	-7.9	-16.7	-20.5	15.0
2003	-17.8	-17.8	-17.8	17.8	-7.7	-7.7	-7.7	7.7
2004	-18.2	-30.4	-50.4	33.0	-7.9	-13.2	-21.9	14.4
2005	-11.7	-11.7	-11.7	11.7	-5.1	-5.1	-5.1	5.1
2006	-18.2	-18.2	-18.2	18.2	-7.9	-7.9	-7.9	7.9
2007	-22.2	-22.2	-31.4	25.3	-9.7	-9.7	-13.6	11.0
2008	-19.2	-19.2	-19.2	19.2	-8.3	-8.3	-8.3	8.3
2009	-16.9	-16.9	-16.9	16.9	-7.3	-7.3	-7.3	7.3
2010	-12.4	-12.4	-12.4	12.4	-5.4	-5.4	-5.4	5.4
2011	-2.6	-2.6	-2.6	2.6	-1.1	-1.1	-1.1	1.1
2012	-59.5	-62.9	-69.7	64.0	-25.9	-27.3	-30.3	27.8
2013	-24.5	-24.5	-31.8	26.9	-10.6	-10.6	-13.8	11.7
2014	-21.2	-21.2	-32.3	24.9	-9.2	-9.2	-14.0	10.8
2015	-23.3	-23.3	-23.3	23.3	-10.1	-10.1	-10.1	10.1
2016	5.2	5.2	-6.7	5.7	2.2	2.2	-2.9	2.5
2017	-11.4	-11.4	-11.4	11.4	-4.9	-4.9	-4.9	4.9
2018	-24.3	-24.3	-24.3	24.3	-10.6	-10.6	-10.6	10.6
2019	-14.7	-14.7	-14.7	14.7	-6.4	-6.4	-6.4	6.4
2020	-14.0	-14.0	-42.0	23.3	-6.1	-6.1	-18.3	10.1
2021	-19.1	-19.1	-52.0	30.0	-8.3	-8.3	-22.6	13.1
2022	-12.2	-12.2	-12.2	12.2	-5.3	-5.3	-5.3	5.3
2023	-0.4	-0.4	-0.4	0.4	-0.2	-0.2	-0.2	0.2
2024	-5.0	-5.0	-5.0	5.0	-2.2	-2.2	-2.2	2.2
2025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Historical - Current

(Historical - Current) / Current