

Northern CVP Water Temperature Report

July - 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
Jun	50.6	49.7	54.5	51.2	51.9	52.5	54.8	56.7	58.4	56.2	49.2	55.3	59.1	9879	1065	10950	81.5	76.7	74.9
07/01	50.0	49.0	56.3	50.6	51.1	51.7	53.5	55.3	57.1	59.0	49.1	57.7	62.4	12104	1377	12981	86.5	79.8	78.7
07/02	50.0	49.0	56.3	50.7	51.3	51.9	53.7	55.5	57.4	59.3	49.0	57.8	62.8	12609	1605	13998	89.5	85.2	85.1
07/03	49.7	48.9	56.3	50.5	51.1	51.6	53.5	55.2	56.9	58.7	49.0	57.3	61.9	12867	1352	14012	83.0	77.4	77.3
07/04	49.8	49.0	56.5	50.3	50.9	51.4	53.0	54.8	56.6	58.0	49.1	56.3	60.6	12122	1535	13875	78.5	74.3	72.3
07/05	49.8	49.0	56.6	50.5	51.0	51.4	53.0	54.5	56.0	58.1	49.2	56.5	61.2	12472	1637	13973	77.5	73.3	72.5
07/06	49.7	48.9	56.7	50.5	51.0	51.5	53.0	54.5	56.1	58.2	49.0	56.8	62.0	12185	1649	13926	83.0	76.5	76.1
07/07	49.9	49.0	56.7	50.4	50.9	51.5	53.1	54.7	56.3	58.7	49.0	57.2	62.6	12603	1650	13943	85.0	78.7	78.8
07/08	50.0	49.1	56.7	50.5	51.0	51.5	53.2	54.8	56.4	58.6	49.1	57.2	62.7	12559	1440	13908	80.5	75.0	74.4
07/09	50.0	49.2	56.9	50.7	51.1	51.6	53.1	54.7	56.3	58.4	49.3	56.4	61.8	12457	1652	13898	78.5	75.4	75.3
07/10	49.9	49.2	56.8	50.6	51.1	51.7	53.4	54.8	56.4	58.8	49.2	55.8	61.2	13007	1359	13923	85.5	81.5	82.5
07/11	50.0	49.2	56.9	50.7	51.1	51.7	53.4	54.8	56.6	58.2	49.2	55.3	60.9	12825	1379	14024	90.0	84.5	84.2
07/12	50.2	49.4	57.0	50.8	51.2	51.8	53.6	55.0	56.8	58.2	49.2	55.4	61.1	12649	1355	14038	90.0	84.8	83.7
07/13	50.4	49.5	57.1	51.0	51.4	52.0	53.7	55.1	57.0	58.2	49.2	55.5	61.4	12586	1523	14033	89.5	83.4	82.3
07/14	50.5	49.6	57.2	51.1	51.5	52.1	53.8	55.1	57.1	58.2	49.3	55.6	61.6	12756	1524	13948	88.0	82.7	81.1
07/15	50.6	49.6	57.2	51.1	51.5	52.2	54.0	55.3	57.1	57.9	49.3	55.9	62.1	12511	1520	13897	84.0	79.0	77.7
07/16	50.6	49.7	57.3	51.2	51.6	52.2	54.0	55.3	57.2	57.9	49.4	56.1	62.1	12600	1509	13888	81.5	77.6	75.8
07/17	50.7	49.8	57.4	51.2	51.7	52.3	53.9	55.2	56.9	57.9	49.4	56.0	61.8	12674	1516	14035	79.0	75.5	74.7
07/18	50.8	49.9	57.4	51.4	51.8	52.4	54.0	55.2	57.0	58.5	49.3	56.0	61.8	12320	1661	14145	82.5	77.5	76.7
07/19	50.9	49.9	57.4	51.4	51.9	52.5	54.1	55.4	57.1	58.6	49.2	55.9	61.7	12250	1511	14195	83.5	78.0	77.2
07/20	51.0	50.1	57.5	51.5	51.9	52.5	54.1	55.4	57.2	58.5	49.3	56.0	61.6	12270	1423	14061	81.0	77.0	77.3
07/21	51.0	50.2	57.5	51.6	52.0	52.6	54.2	55.5	57.2	58.5	49.4	56.8	62.2	12551	1381	13995	75.5	71.9	70.9
07/22	50.9	50.5	57.6	51.7	52.0	52.6	54.2	55.5	57.1	58.2	49.8	56.8	62.1	12561	1446	14170	75.0	71.9	70.2
07/23	50.9	50.3	57.6	51.7	52.1	52.7	54.2	55.4	57.0	57.9	49.5	56.6	62.0	12569	1409	14174	76.0	73.1	72.4
07/24	51.1	50.5	57.7	51.7	52.2	52.7	54.2	55.3	57.0	58.5	49.5	56.9	62.4	12618	1473	14090	78.0	73.3	72.4
07/25	51.2	50.7	57.7	52.0	52.4	53.0	54.5	55.7	57.3	58.9	49.5	57.2	62.6	12541	1491	14069	80.5	75.3	75.2
07/26	51.4	50.8	57.8	52.1	52.6	53.2	54.8	56.1	57.9	58.8	49.4	57.1	62.4	11894	1508	13992	77.5	74.5	72.9
07/27	51.6	51.0	57.9	52.2	52.6	53.3	54.9	56.1	57.8	58.6	49.3	56.9	62.4	12846	1511	13957	79.5	75.8	75.9
07/28	51.2	50.7	57.9	52.5	52.8	53.5	55.0	56.2	57.9	58.8	49.4	56.9	62.2	12435	1546	14139	81.5	77.4	76.9
07/29	51.1	50.6	58.0	52.0	52.6	53.3	55.0	56.2	58.0	58.8	49.2	57.1	62.6	12998	1517	14120	83.0	79.4	78.7
07/30	51.4	50.7	57.9	52.0	52.5	53.1	54.7	55.9	57.5	58.2	49.2	56.6	62.0	12013	1271	14083	82.5	77.3	73.1
07/31	51.5	51.0	58.0	52.2	52.6	53.2	54.8	55.9	57.6	58.6	49.3	56.0	61.3	13105	1506	14043	82.5	78.5	75.7
Jul	50.5	49.8	57.2	51.2	51.7	52.2	53.9	55.3	57.0	58.4	49.3	56.5	61.9	12515	1491	13983	82.2	77.6	76.7

Total CFS	388557	46236	433533
Total AF	770687	91707	859895

Legend

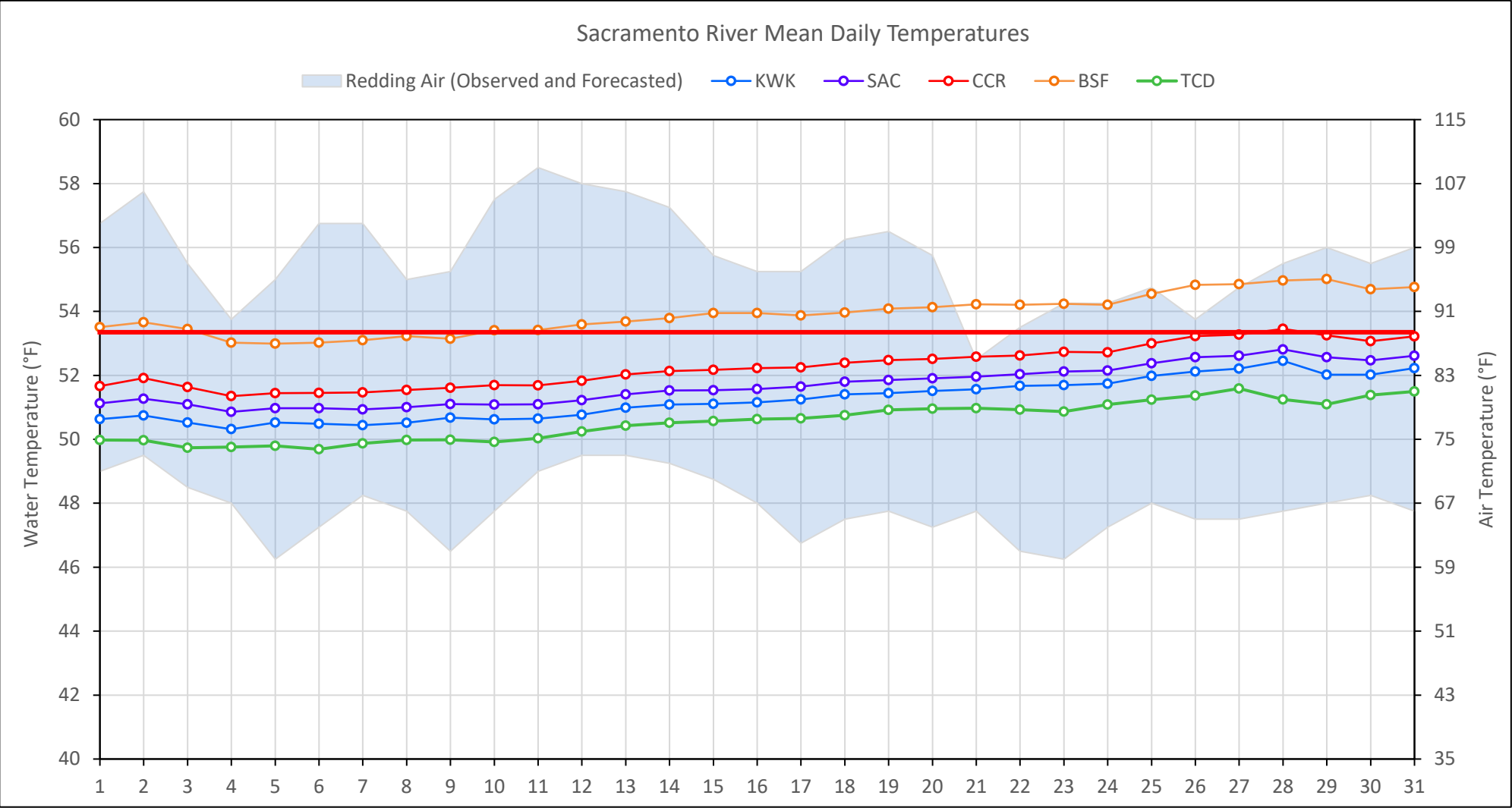
Notes

- ? = 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)



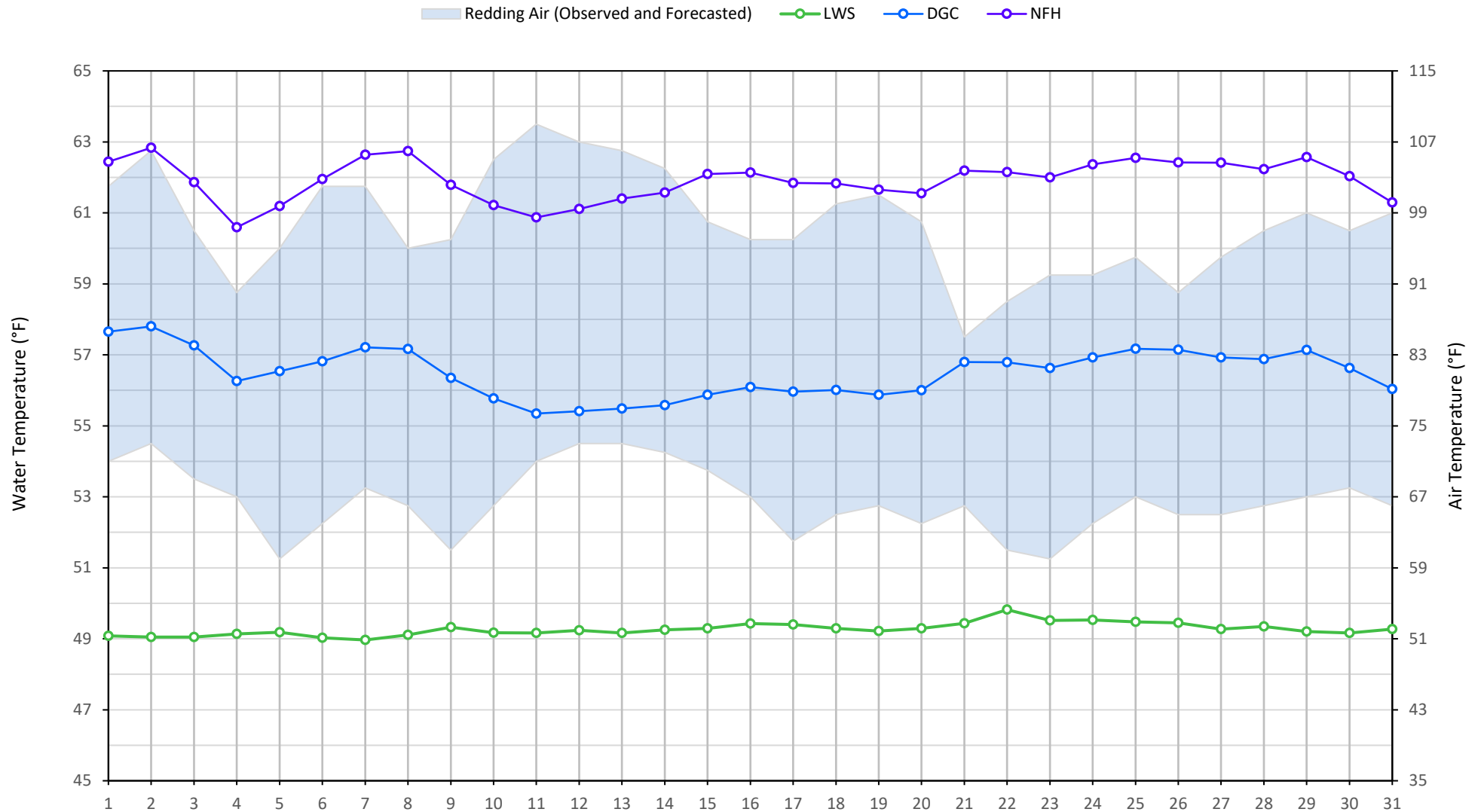
Station Details			
Code	Body of Water	Location ¹	CDEC Link
TCD	N/A	Shasta Power Plant	N/A
SHD	Sacramento River	0.3 miles downstream of Shasta Power Plant	Click Here
SPP	N/A	Spring Creek Power Plant	N/A
KWK	Sacramento River	0.8 miles downstream of Keswick Dam	Click Here
SAC	Sacramento River	4.8 miles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

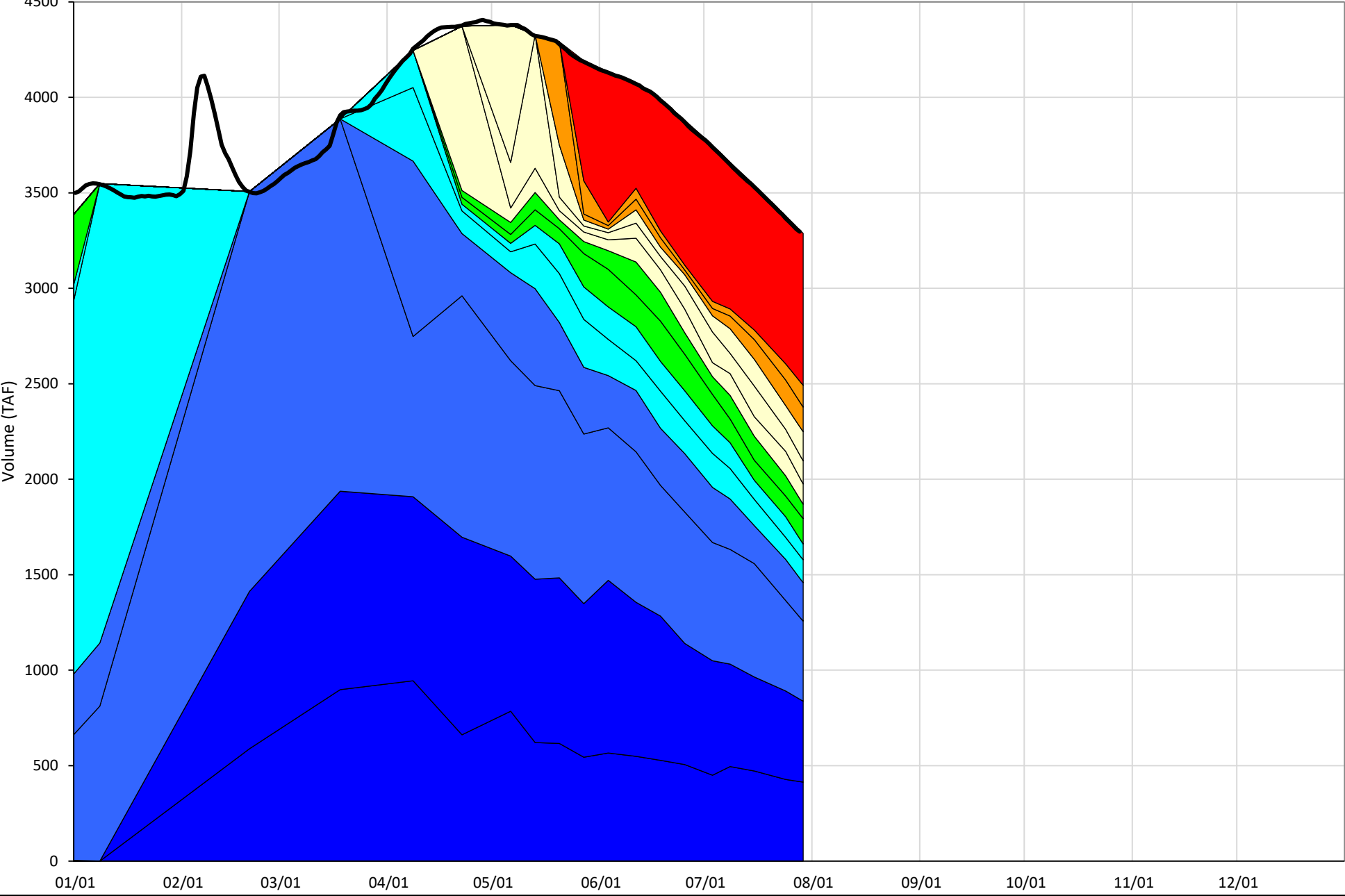
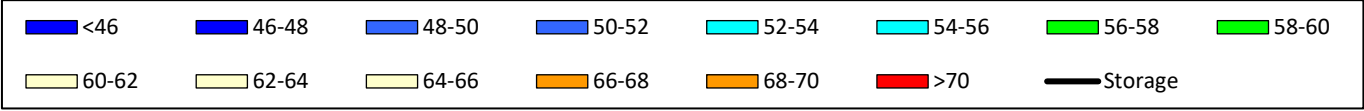
¹ Distances are approximate

Shasta Lake Isothermobaths & Cold Water Pool Statistics

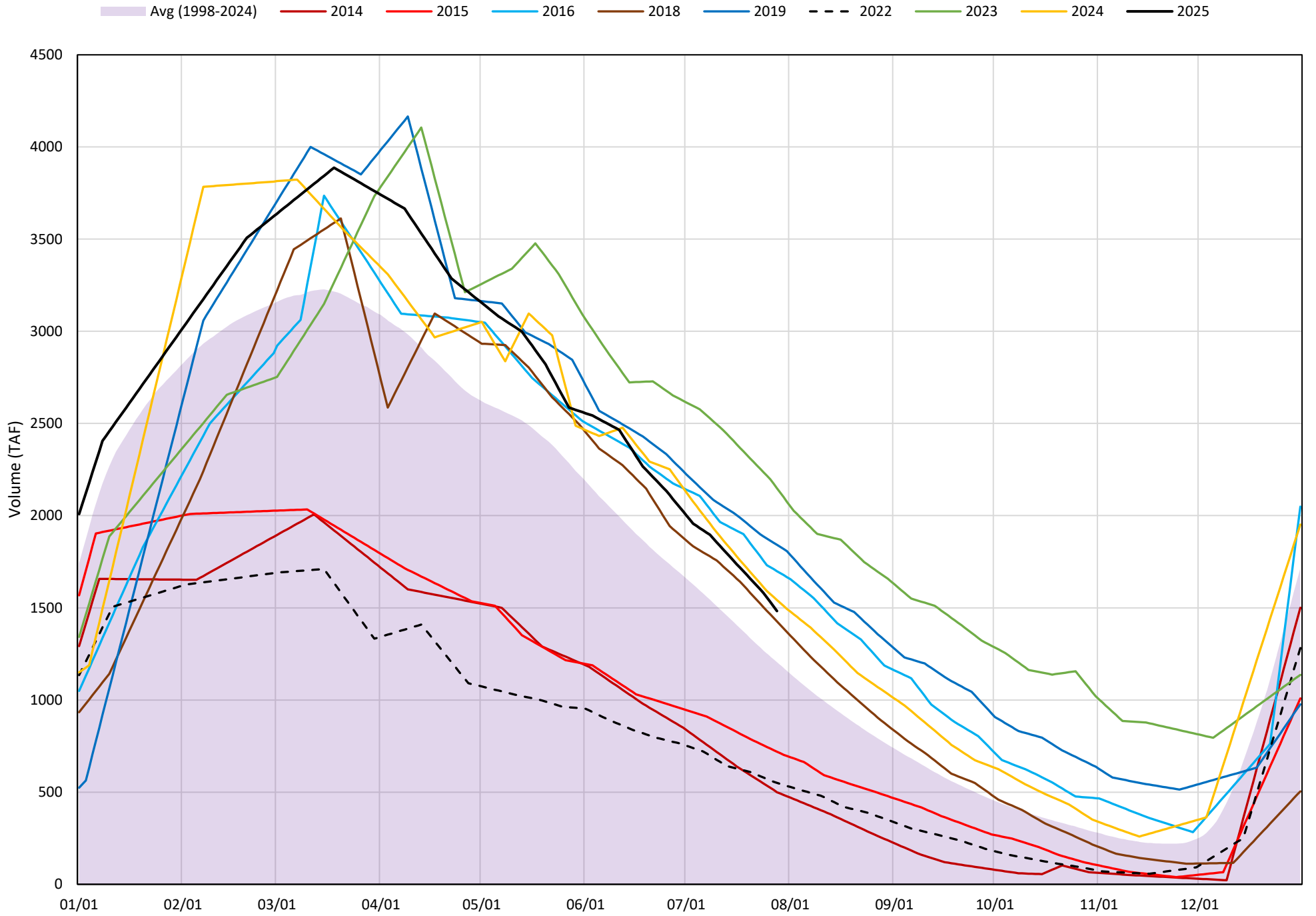
2025

Page	Description
6	- Shasta Lake Isothermobaths Plot
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8	- Shasta Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$
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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

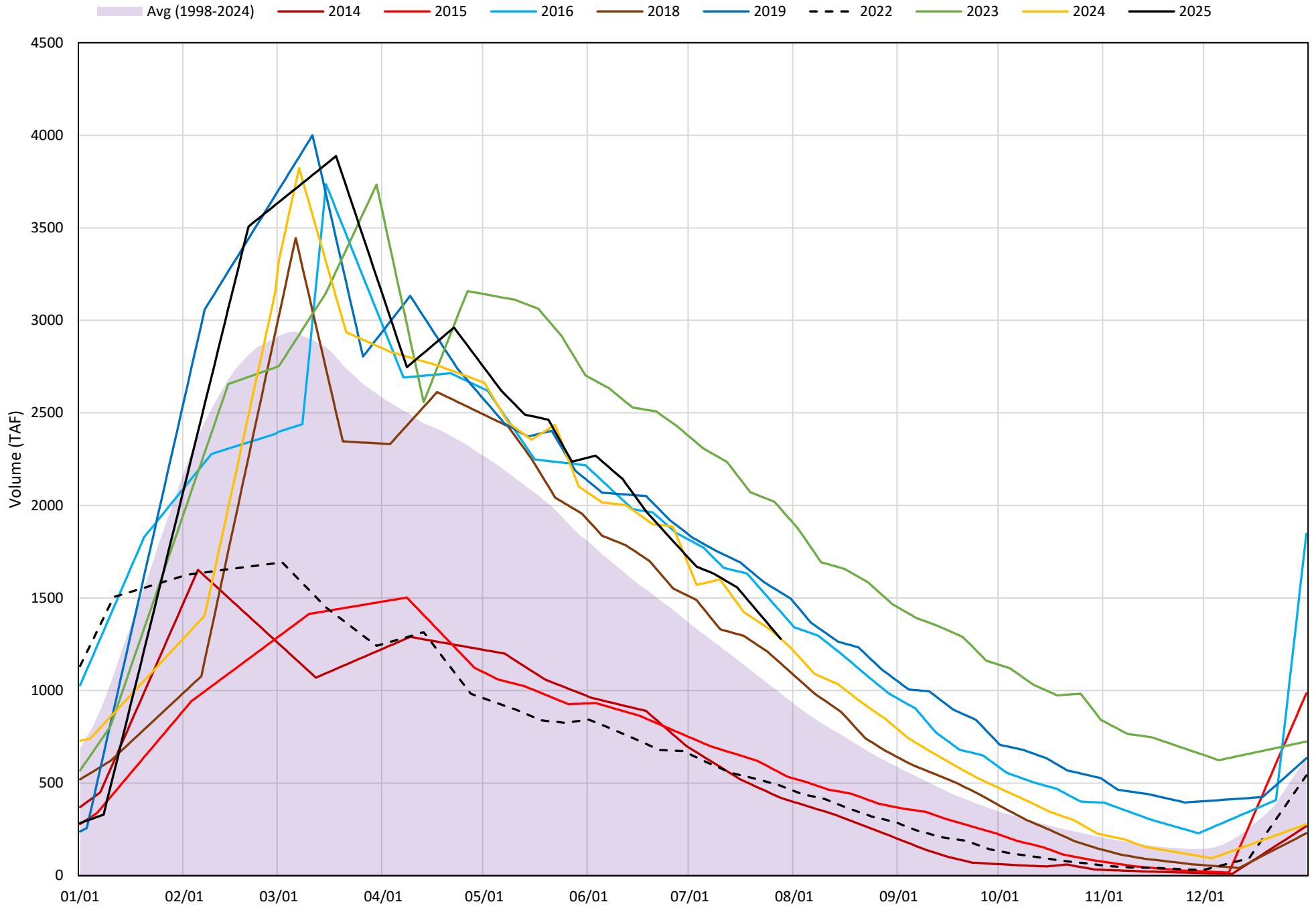
Shasta Lake Isothermobaths Plot - 2025



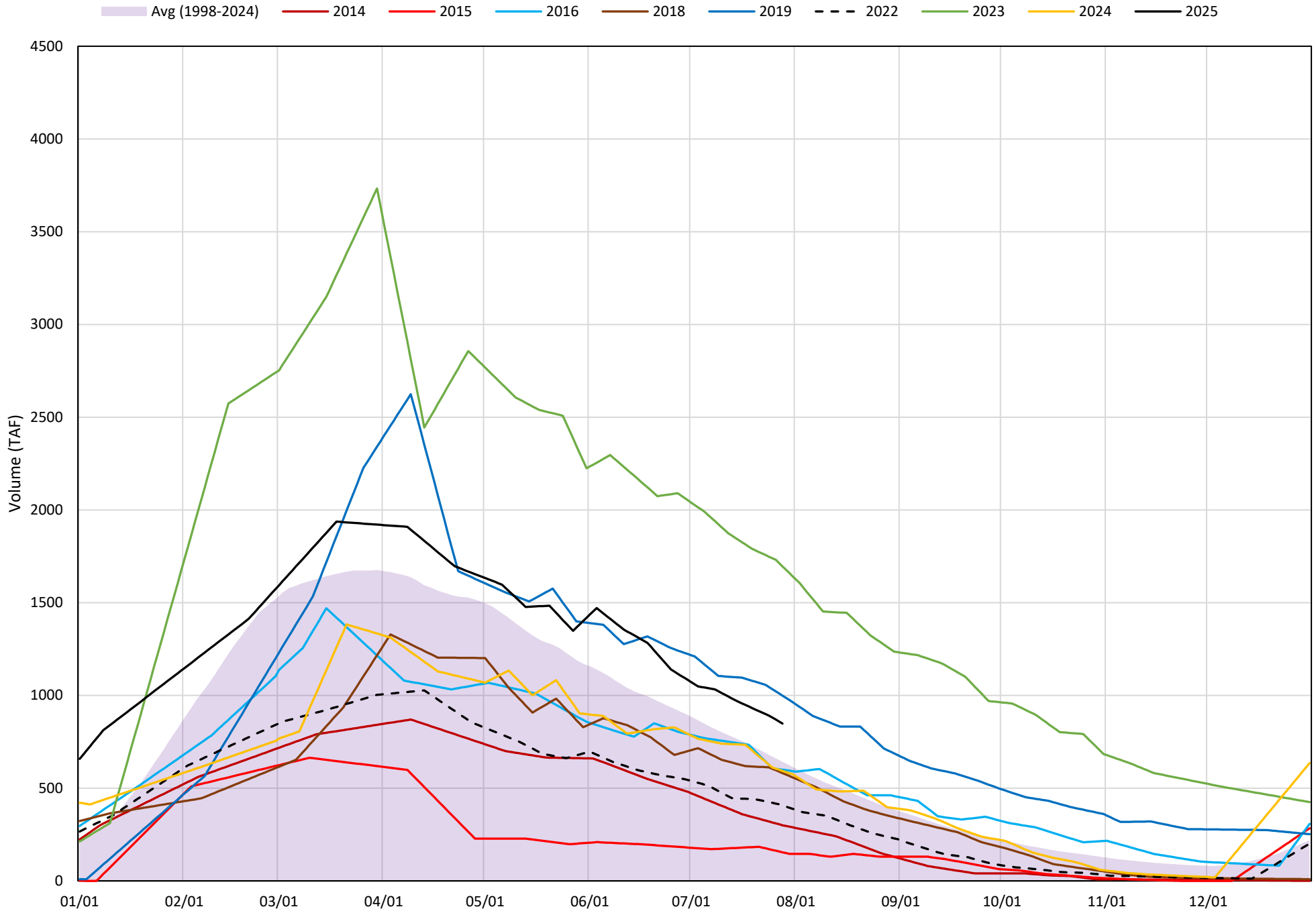
Shasta Lake Cold Water Pool Volume ≤52°F



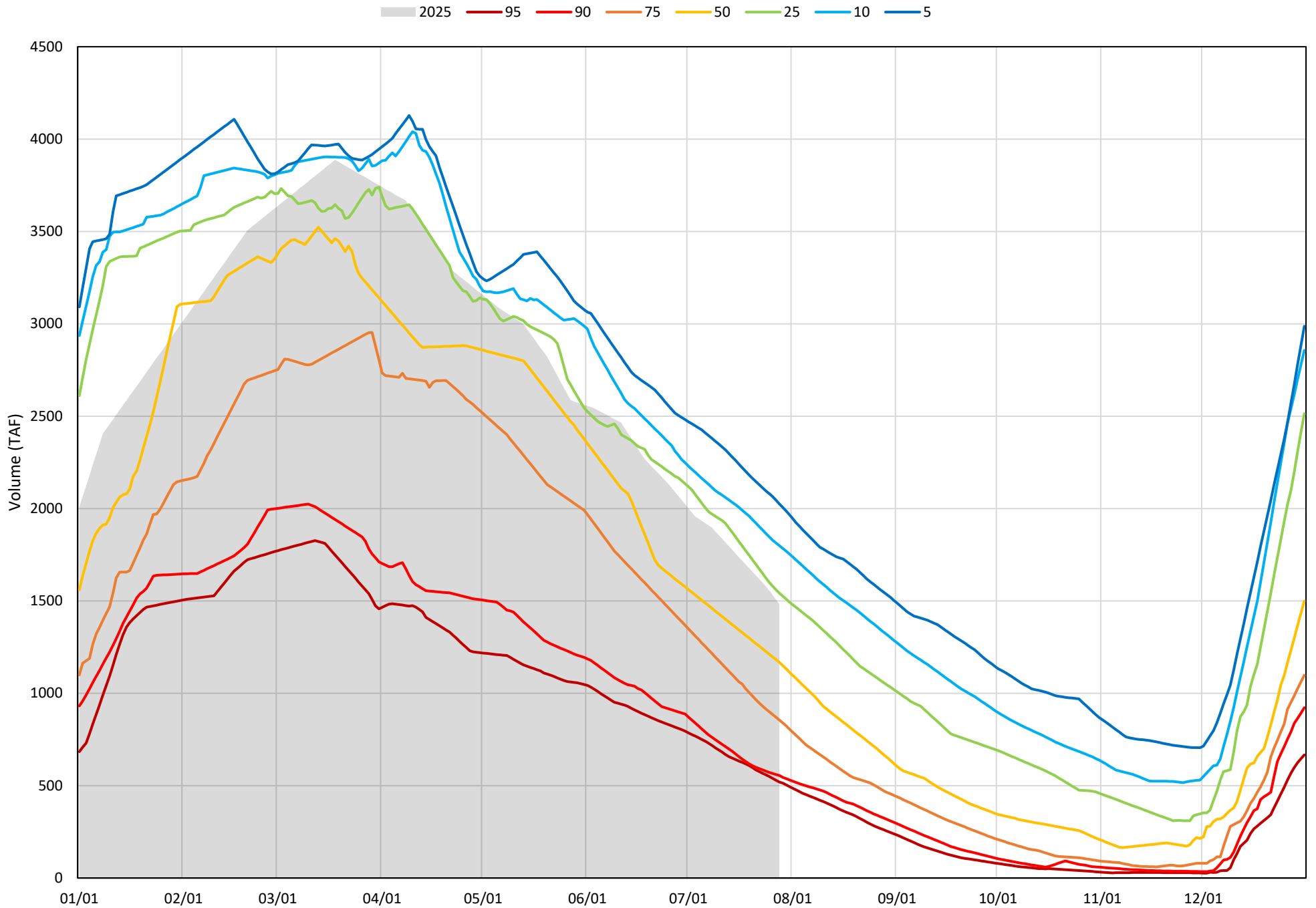
Shasta Lake Cold Water Pool Volume ≤50°F



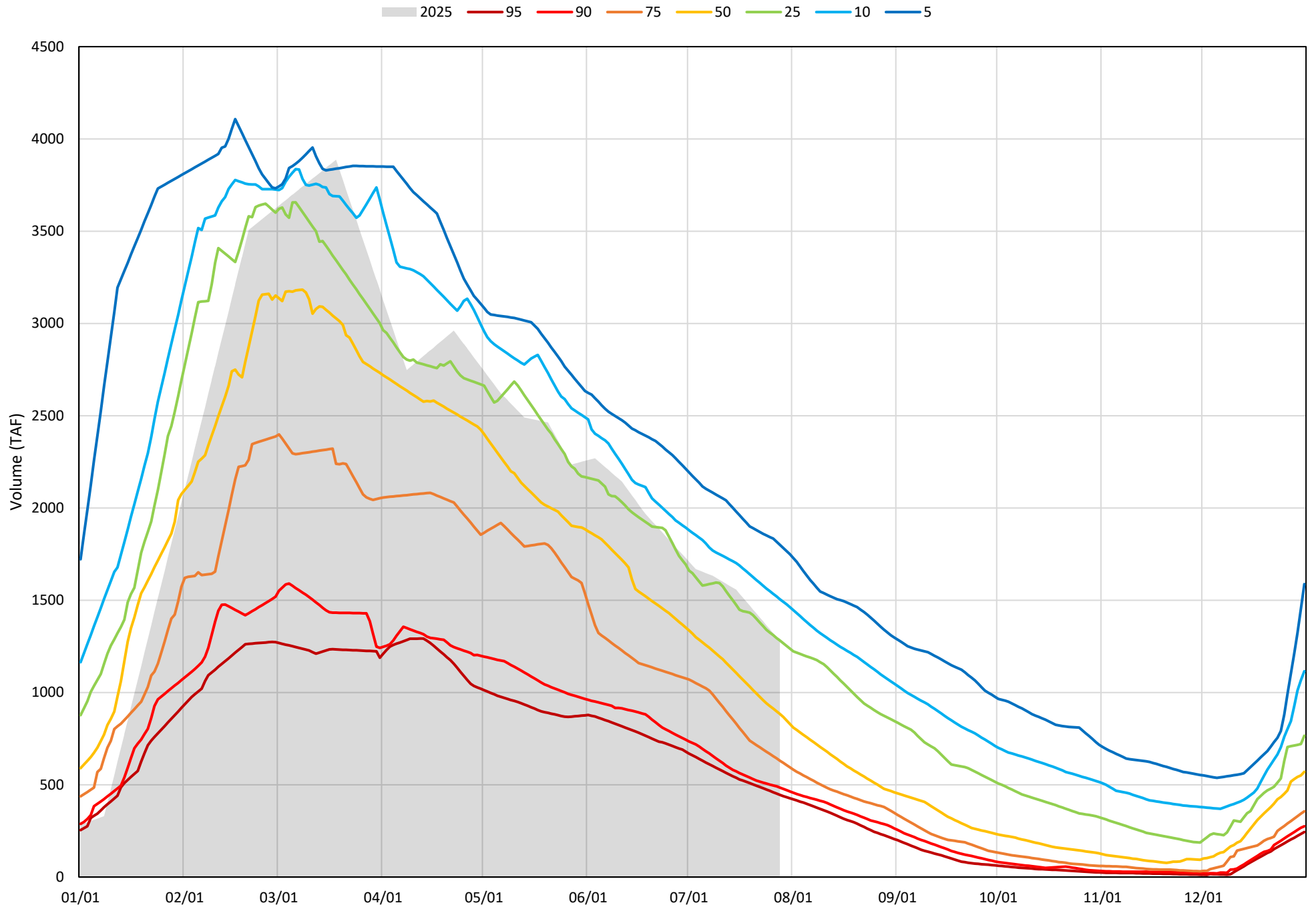
Shasta Lake Cold Water Pool Volume ≤48°F



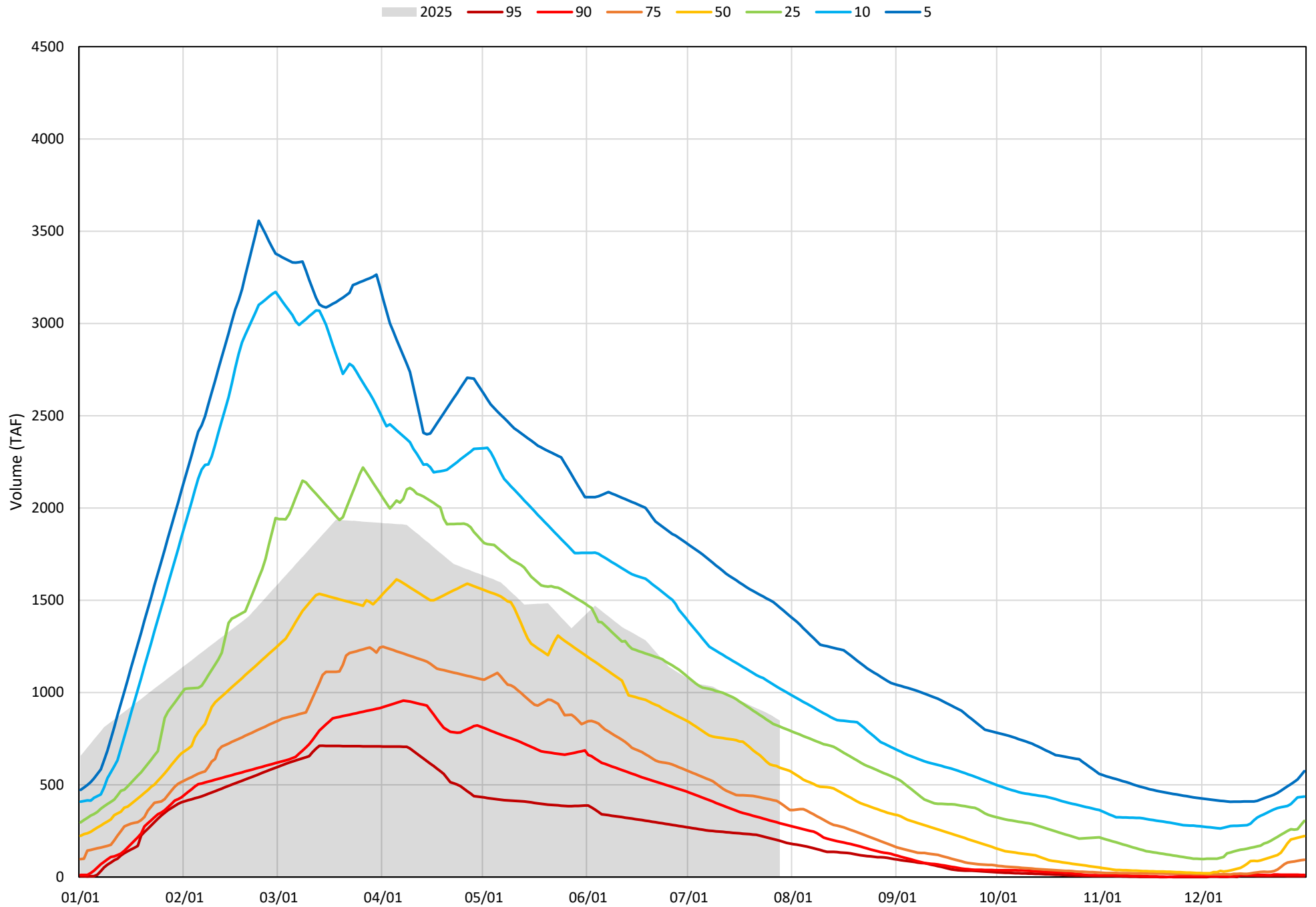
Shasta Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances (1998-2024)



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)

Jul-29 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	-274	-476	-445	398	-18	-37	-52	36
1999	-54	-38	152	81	-4	-3	18	8
2000	-413	-514	-494	474	-28	-40	-58	42
2001	-503	-407	-156	355	-34	-32	-18	28
2002	-251	-211	-75	179	-17	-16	-9	14
2003	-315	-659	-588	520	-21	-52	-69	47
2004	-649	-612	-365	542	-44	-48	-43	45
2005	-628	-648	-504	593	-42	-51	-59	51
2006	-60	-130	-94	95	-4	-10	-11	8
2007	-461	-391	-164	338	-31	-31	-19	27
2008	-783	-668	-333	595	-53	-52	-39	48
2009	-624	-544	-256	474	-42	-43	-30	38
2010	153	7	-33	64	10	1	-4	5
2011	306	221	259	262	21	17	31	23
2012	57	124	60	80	4	10	7	7
2013	-468	-394	-163	342	-32	-31	-19	27
2014	-983	-859	-548	796	-66	-67	-65	66
2015	-763	-725	-694	727	-51	-57	-82	63
2016	216	146	-249	204	15	11	-29	18
2017	177	3	2	60	12	0	0	4
2018	-57	-133	-267	152	-4	-10	-31	15
2019	359	251	151	253	24	20	18	21
2020	-351	-413	-379	381	-24	-32	-45	34
2021	-925	-796	-522	748	-62	-62	-62	62
2022	-932	-794	-441	722	-63	-62	-52	59
2023	666	702	847	738	45	55	100	67
2024	60	0	-255	105	4	0	-30	11
2025	0	0	0	0	0	0	0	0

Historical - Current

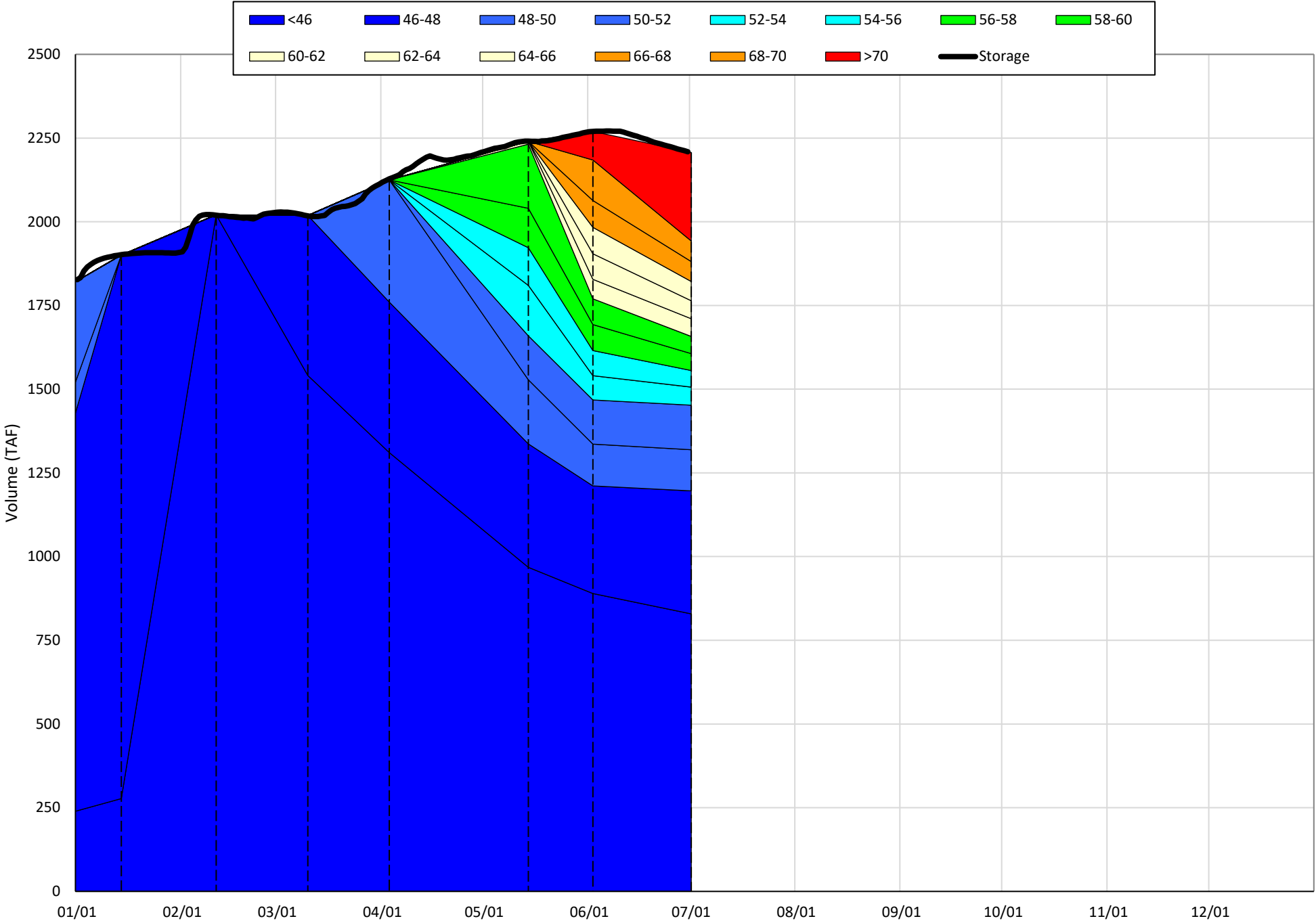
(Historical - Current) / Current

Trinity Lake Isothermobaths & Cold Water Pool Statistics

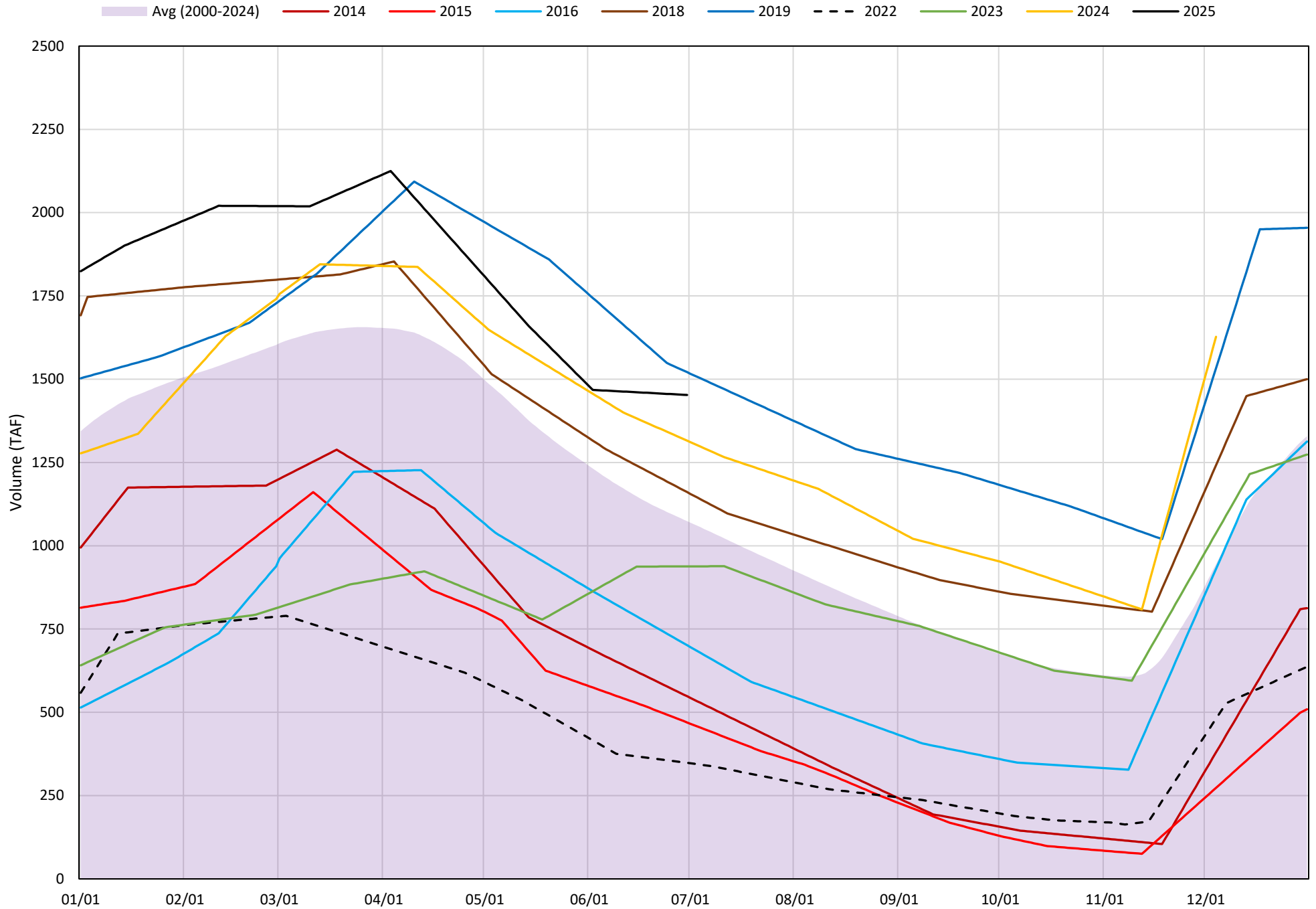
2025

Page	Description
15	- Trinity Lake Isothermobaths Plot
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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

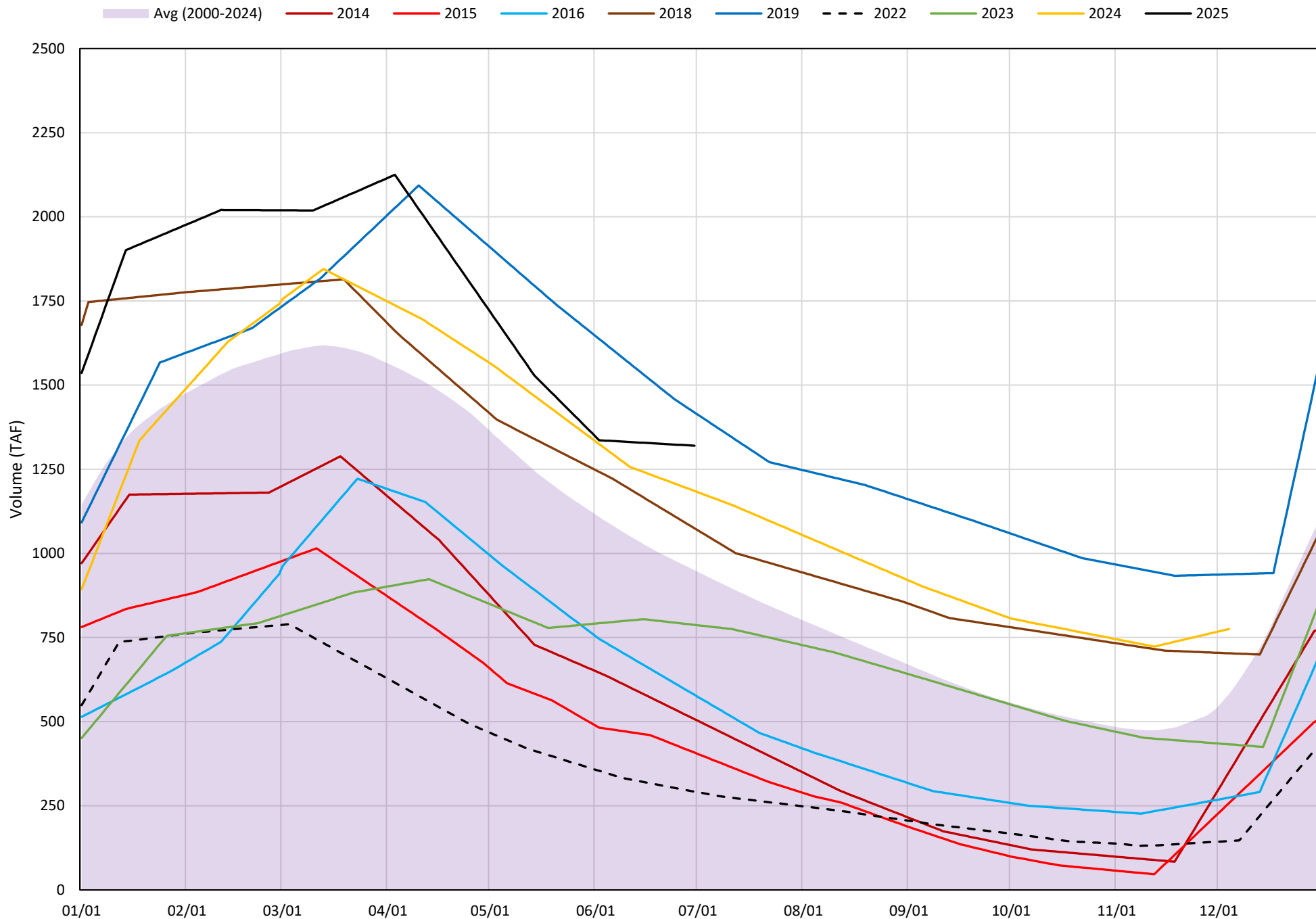
Trinity Lake Isothermobaths Plot - 2025



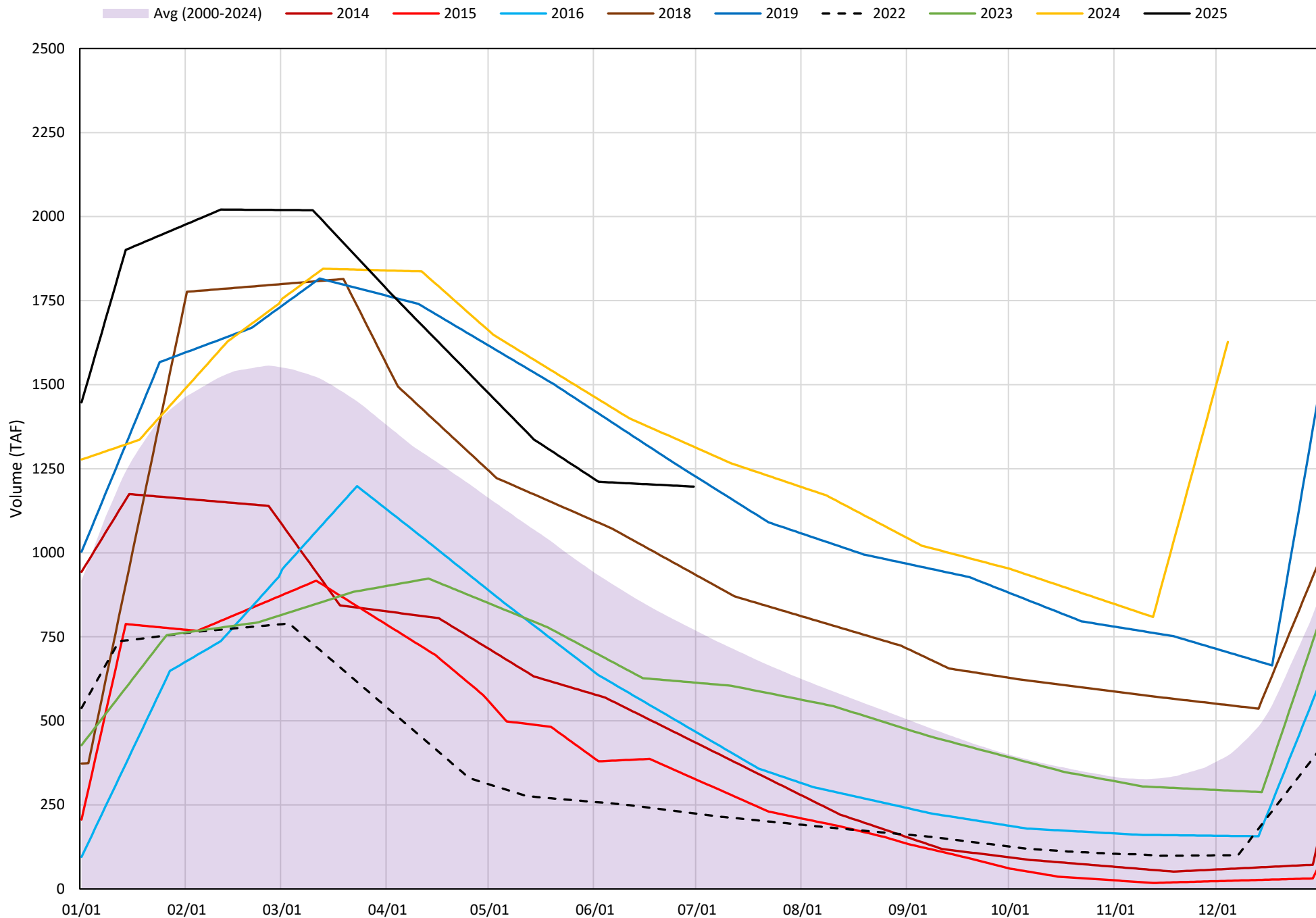
Trinity Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$



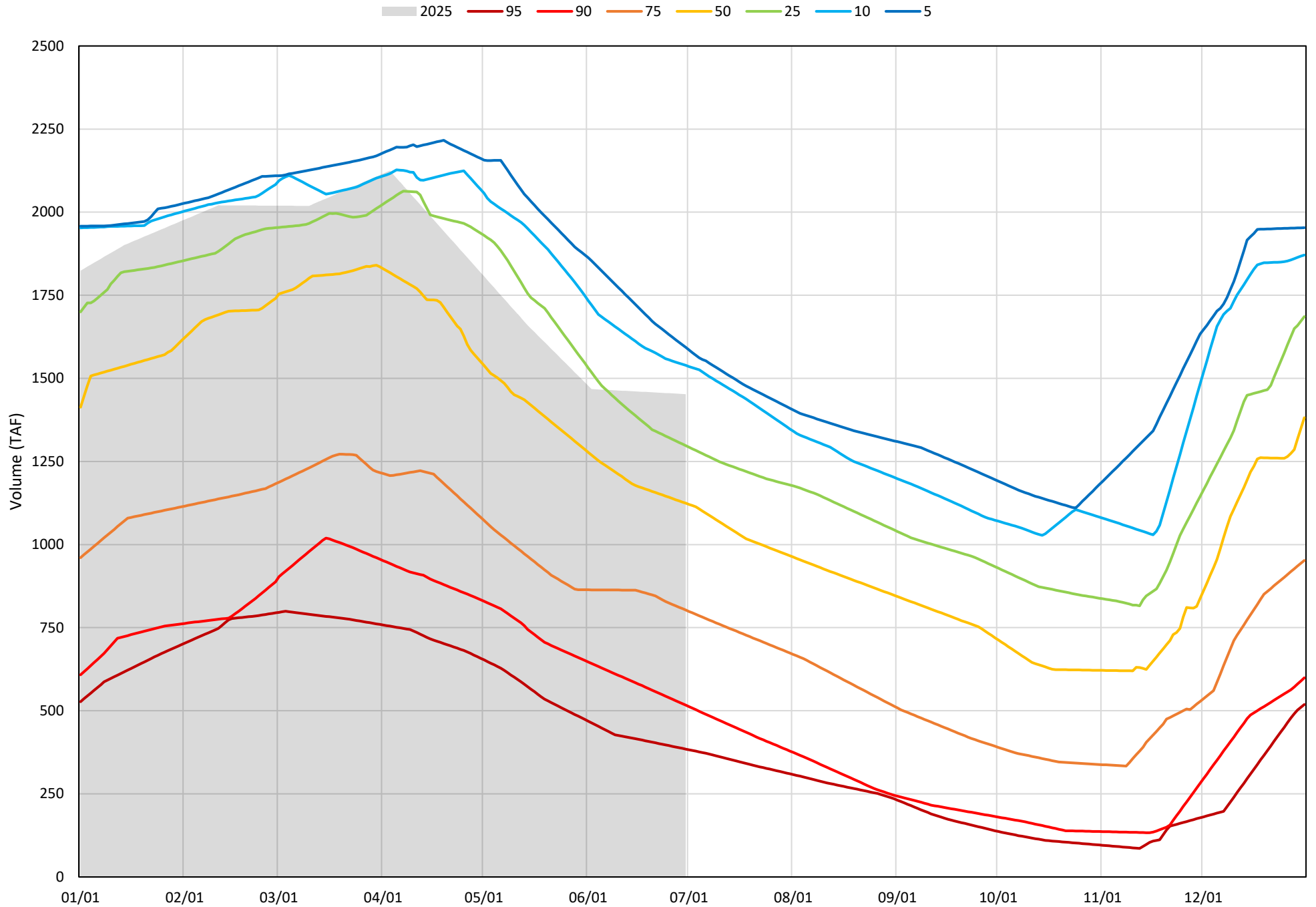
Trinity Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$



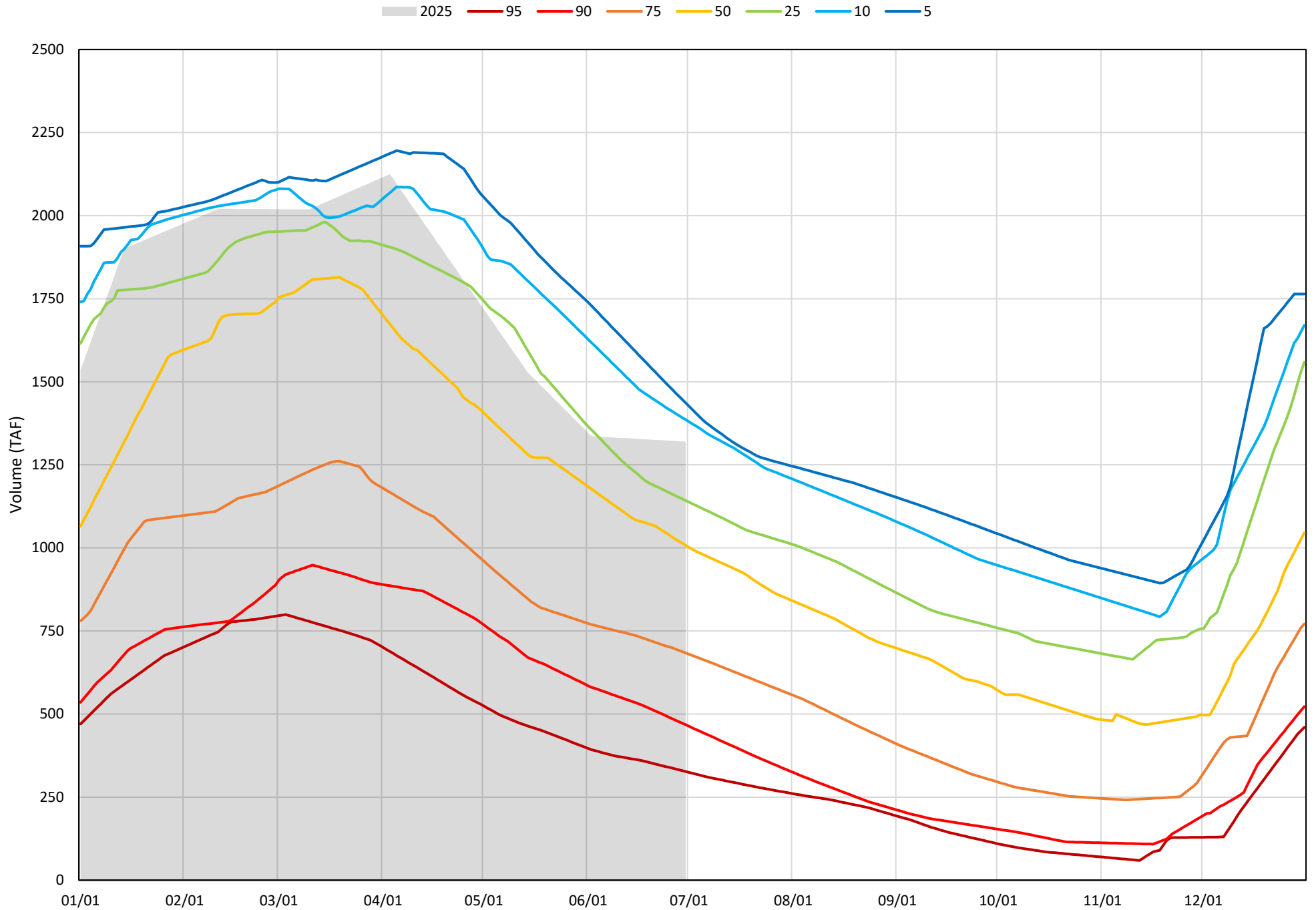
Trinity Lake Cold Water Pool Volume ≤48°F



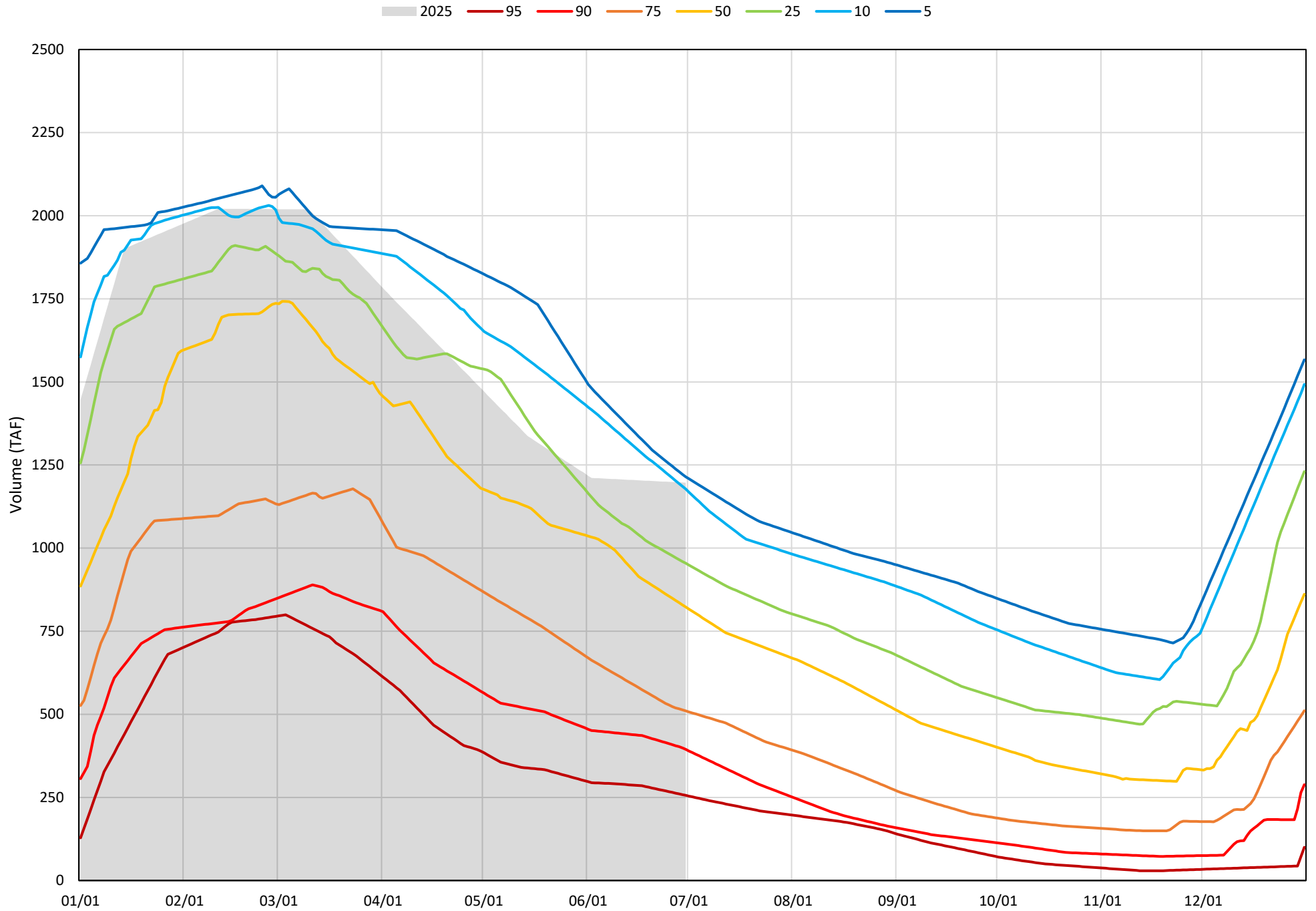
Trinity Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances (2000-2024)



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)

Jul-01 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	-186	-220	-293	233	-13	-17	-24	18
2001	-320	-312	-333	322	-22	-24	-28	25
2002	-369	-316	-331	339	-25	-24	-28	26
2003	54	-84	-226	121	4	-6	-19	10
2004	-264	-274	-374	304	-18	-21	-31	23
2005	-190	-275	-491	319	-13	-21	-41	25
2006	152	124	-20	99	10	9	-2	7
2007	-328	-282	-271	294	-23	-21	-23	22
2008	-564	-552	-660	592	-39	-42	-55	45
2009	-736	-720	-755	737	-51	-55	-63	56
2010	-379	-407	-587	458	-26	-31	-49	35
2011	113	44	-105	88	8	3	-9	7
2012	-19	30	-19	23	-1	2	-2	2
2013	-430	-387	-435	417	-30	-29	-36	32
2014	-905	-813	-759	825	-62	-62	-63	62
2015	-983	-912	-868	921	-68	-69	-73	70
2016	-751	-740	-726	739	-52	-56	-61	56
2017	-173	-229	-287	230	-12	-17	-24	18
2018	-292	-245	-259	266	-20	-19	-22	20
2019	68	99	33	67	5	7	3	5
2020	-385	-334	-404	374	-27	-25	-34	29
2021	-827	-753	-714	765	-57	-57	-60	58
2022	-1104	-1028	-972	1035	-76	-78	-81	78
2023	-515	-532	-583	543	-35	-40	-49	41
2024	-137	-134	-197	156	-9	-10	-16	12
2025	0	0	0	0	0	0	0	0

Historical - Current

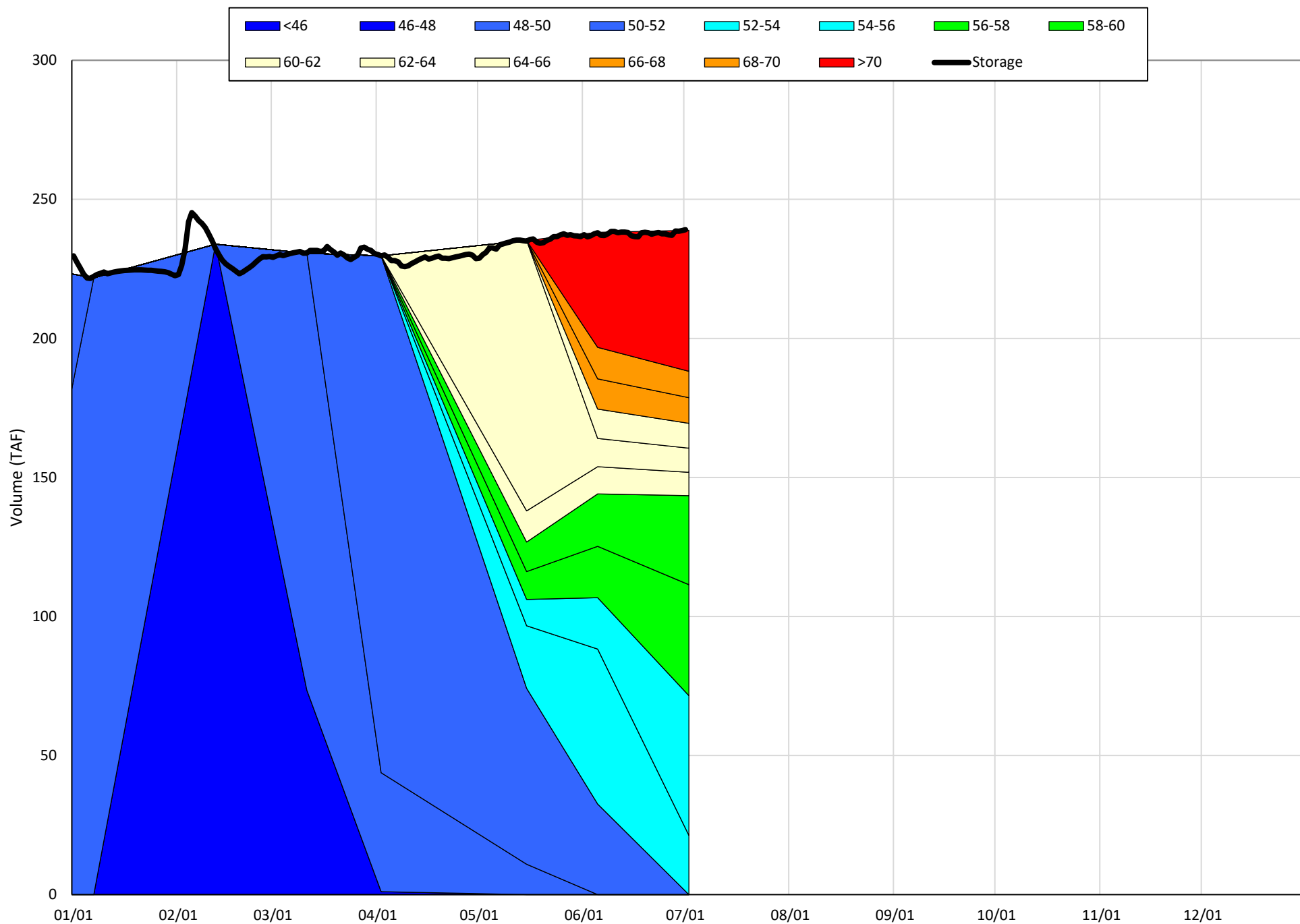
(Historical - Current) / Current

Whiskeytown Lake Isothermobaths & Cold Water Pool Statistics

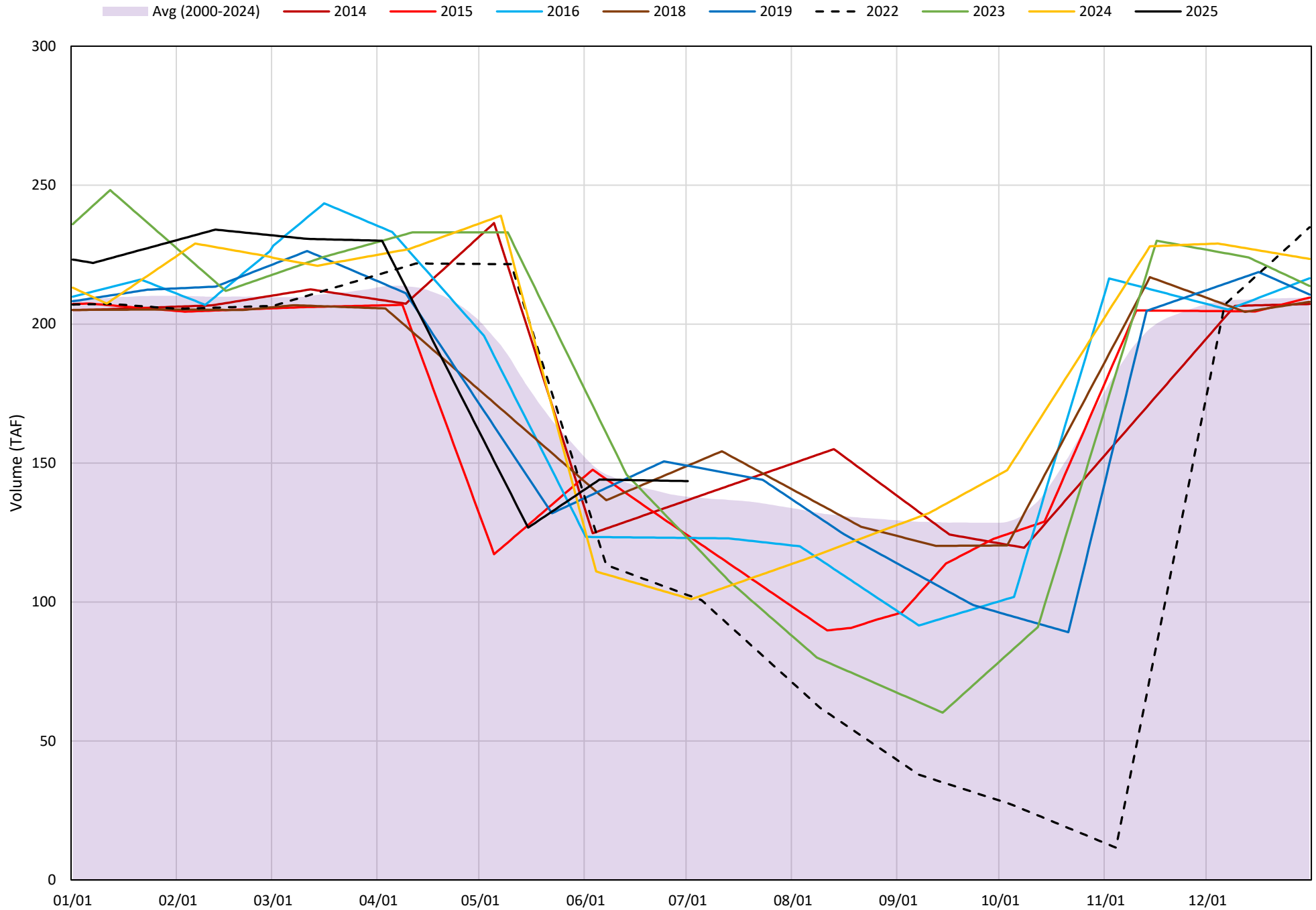
2025

Page	Description
24	- Whiskeytown Lake Isothermobaths Plot
25	- Whiskeytown Lake Cold Water Pool Volume ≤60°F
26	- Whiskeytown Lake Cold Water Pool Volume ≤58°F
27	- Whiskeytown Lake Cold Water Pool Volume ≤56°F
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

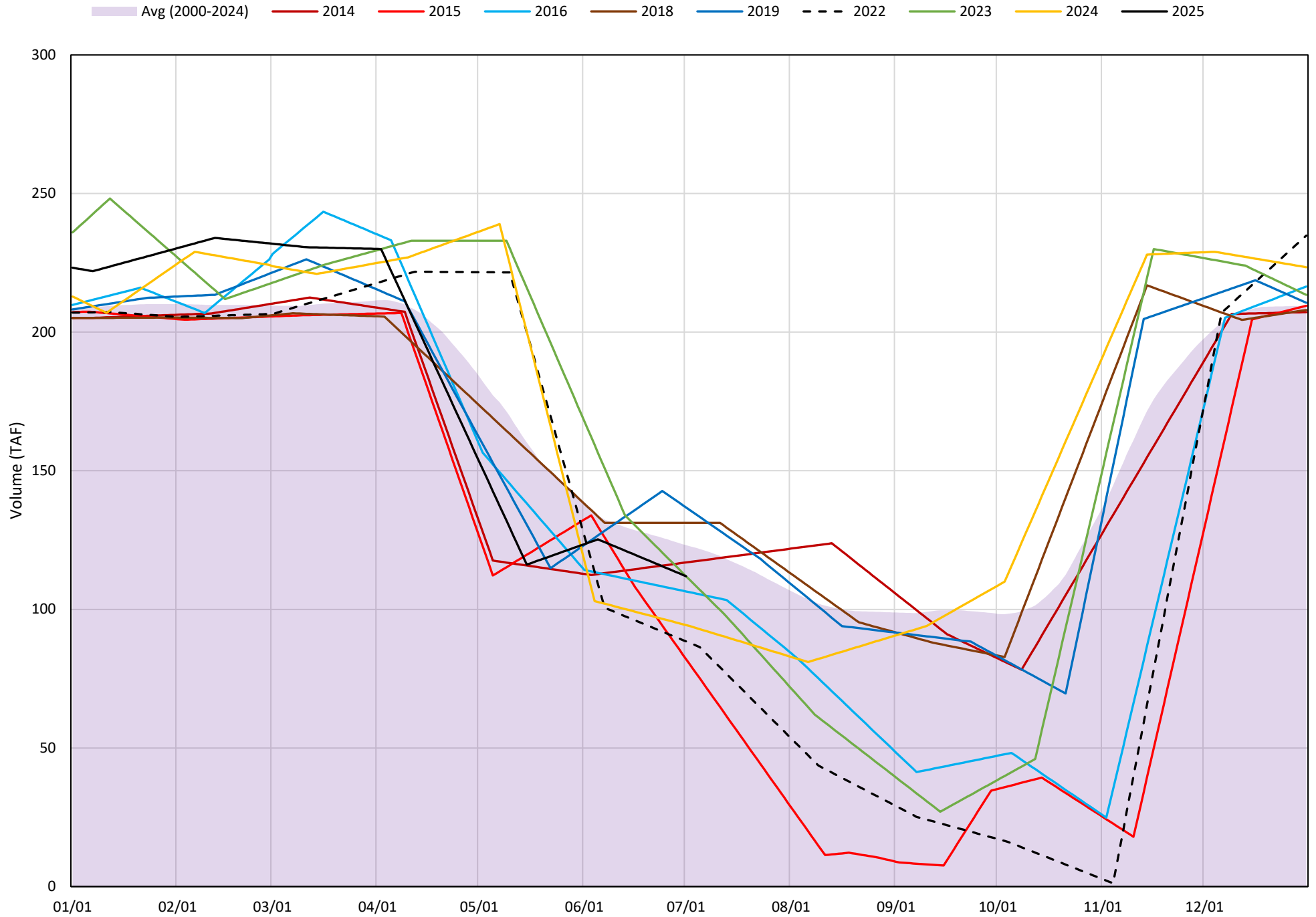
Whiskeytown Lake Isothermobaths Plot - 2025



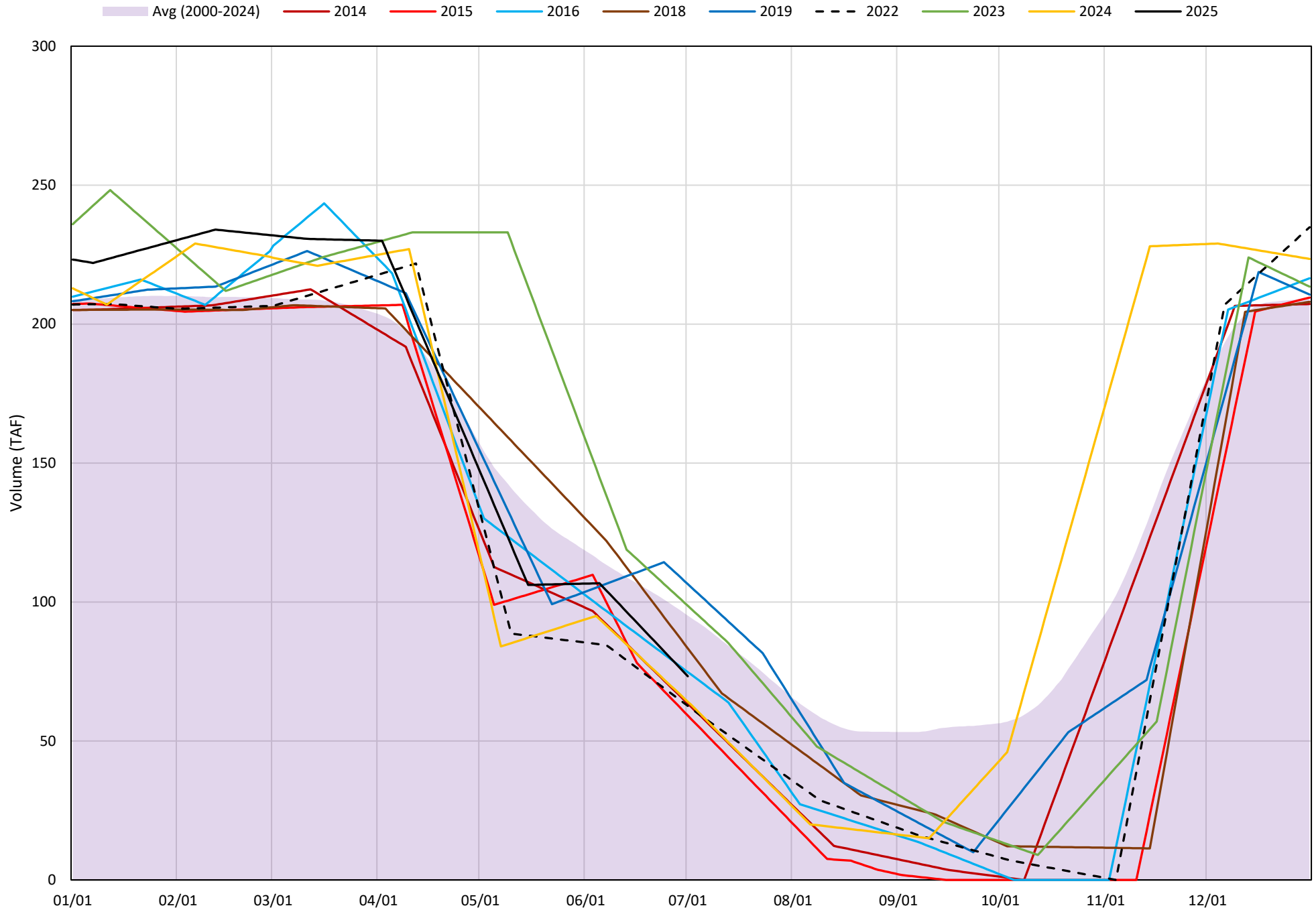
Whiskeytown Lake Cold Water Pool Volume ≤60°F



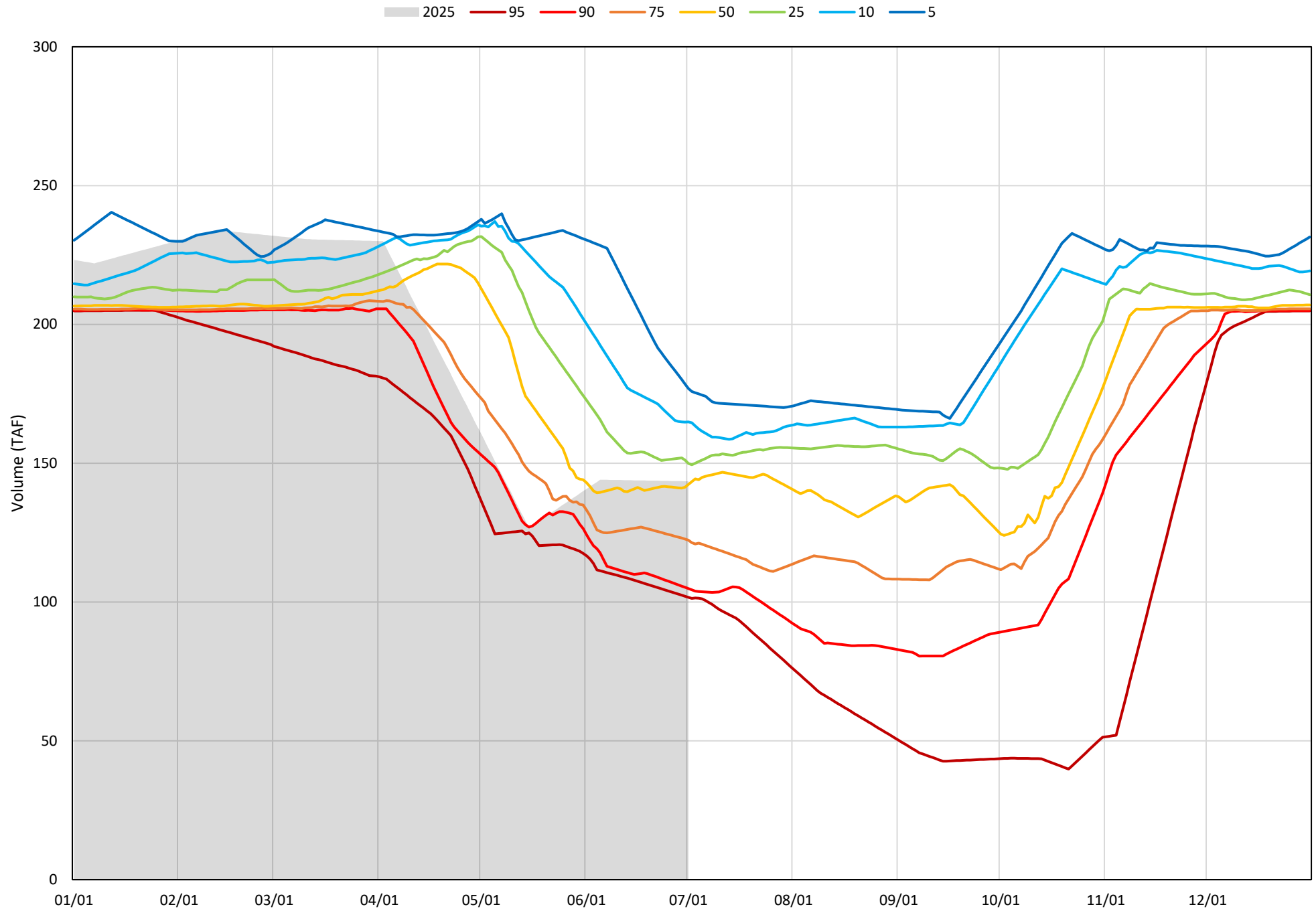
Whiskeytown Lake Cold Water Pool Volume ≤58°F



Whiskeytown Lake Cold Water Pool Volume ≤56°F

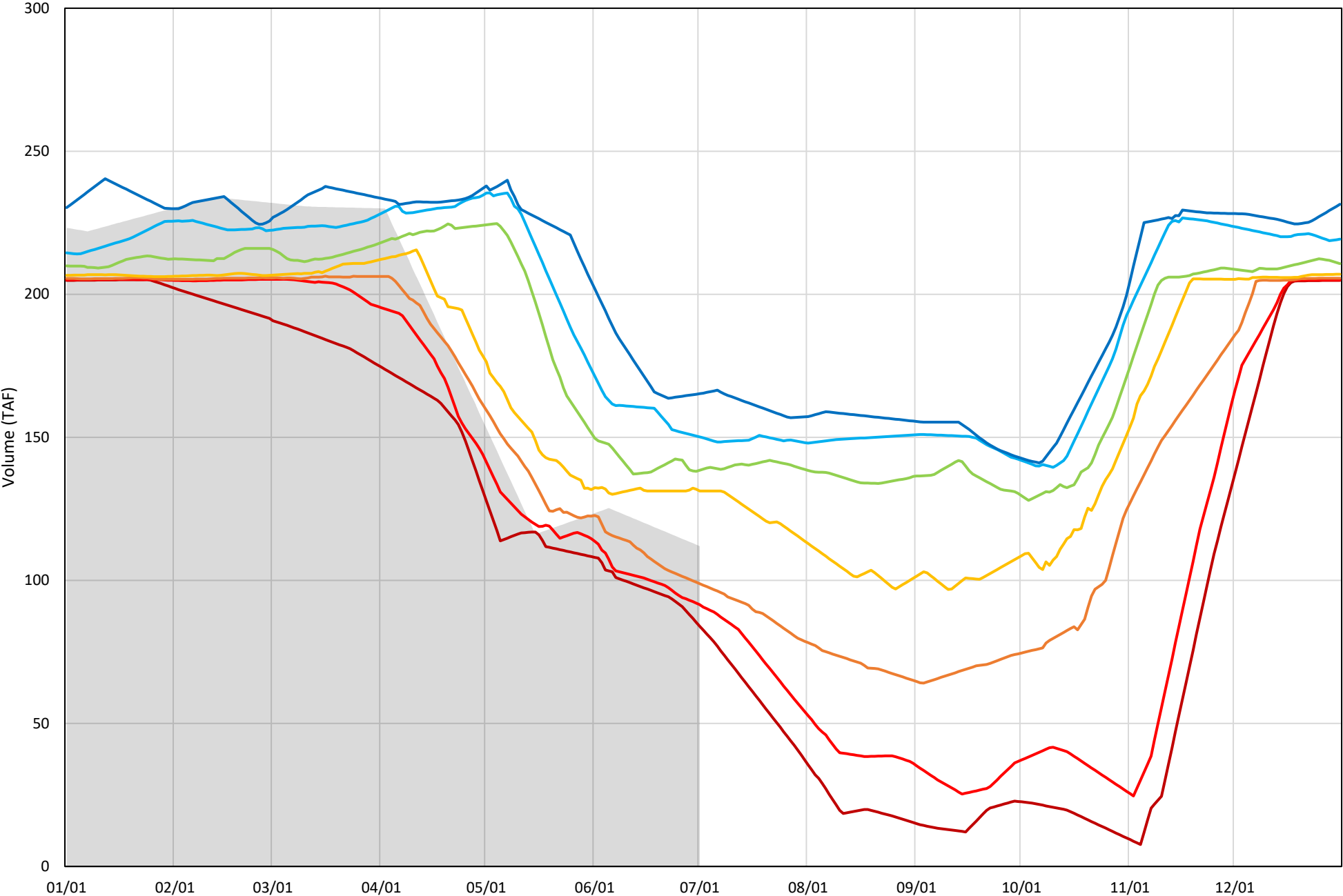


Whiskeytown Lake Cold Water Pool Volume ≤60°F - Percent Exceedances (2000-2024)

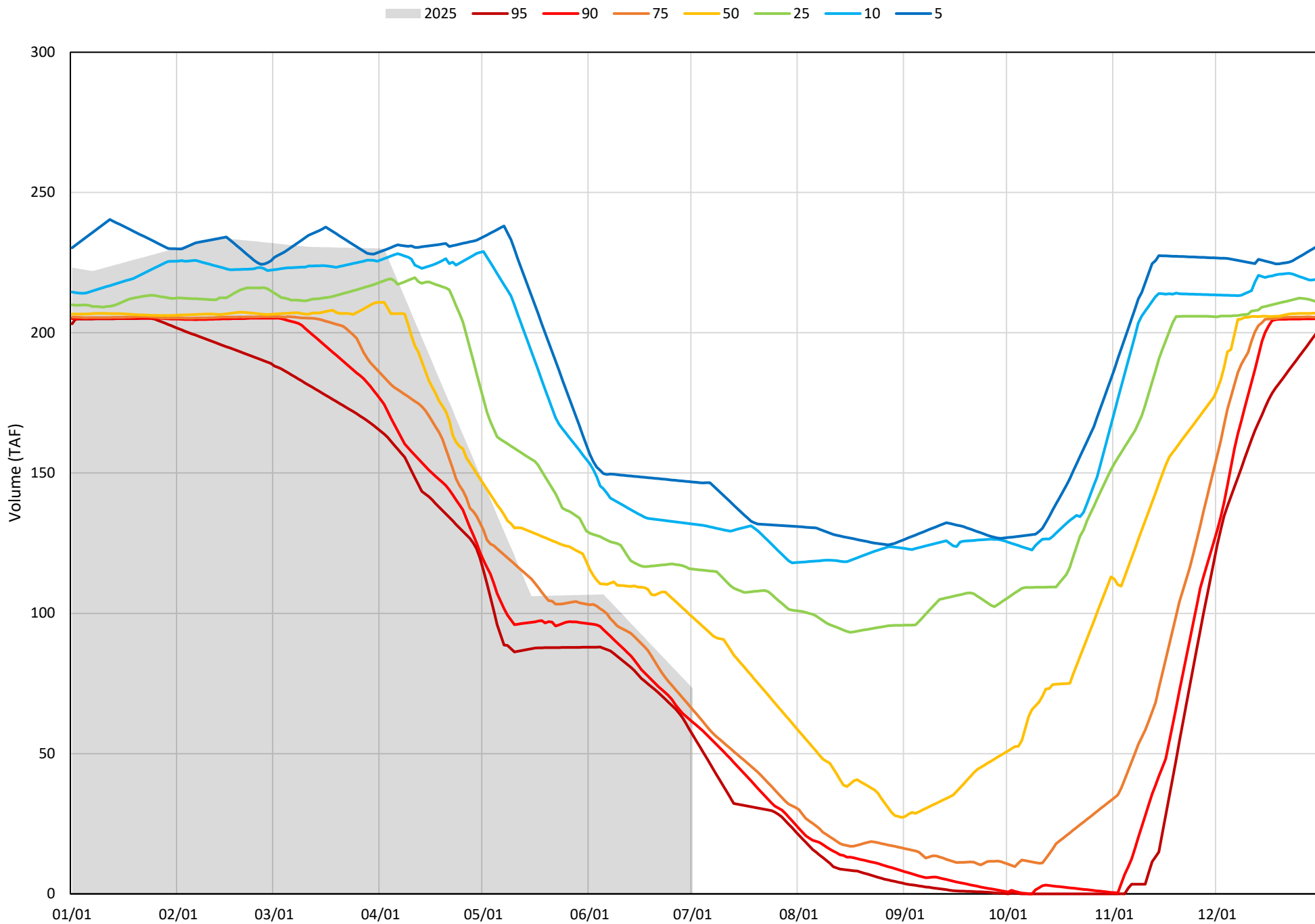


Whiskeytown Lake Cold Water Pool Volume ≤58°F - Percent Exceedances (2000-2024)

2025 95 90 75 50 25 10 5



Whiskeytown Lake Cold Water Pool Volume $\leq 56^{\circ}\text{F}$ - Percent Exceedances (2000-2024)



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

Jul-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	5.2	26.6	48.9	26.9	3.6	23.8	66.7	31.4
2001	-1.2	21.7	33.6	18.8	-0.8	19.4	45.9	22.0
2002	0.9	24.3	37.5	20.9	0.6	21.7	51.2	24.5
2003	13.7	30.2	45.7	29.9	9.5	27.0	62.4	33.0
2004	-1.8	22.6	49.2	24.5	-1.3	20.2	67.2	29.5
2005	-31.8	-14.0	-6.9	17.6	-22.2	-12.5	-9.5	14.7
2006	32.2	59.7	79.5	57.1	22.4	53.3	108.5	61.4
2007	0.3	24.5	32.3	19.0	0.2	21.9	44.0	22.0
2008	4.6	26.4	38.1	23.0	3.2	23.6	52.0	26.3
2009	-21.8	-18.5	-8.2	16.2	-15.2	-16.5	-11.2	14.3
2010	7.3	17.0	1.0	8.5	5.1	15.2	1.4	7.2
2011	34.0	38.3	39.2	37.2	23.7	34.2	53.5	37.1
2012	-7.9	8.2	10.7	8.9	-5.5	7.3	14.6	9.1
2013	11.8	33.3	57.9	34.3	8.2	29.7	78.9	39.0
2014	-6.8	4.9	-9.8	7.2	-4.8	4.4	-13.4	7.5
2015	-19.6	-29.9	-14.1	21.2	-13.6	-26.7	-19.3	19.9
2016	-20.5	-5.5	1.5	9.2	-14.3	-4.9	2.1	7.1
2017	14.2	38.1	59.6	37.3	9.9	34.0	81.3	41.8
2018	5.5	19.3	10.0	11.6	3.9	17.2	13.7	11.6
2019	5.5	24.8	33.2	21.2	3.8	22.2	45.2	23.7
2020	-37.1	-12.3	19.8	23.1	-25.9	-11.0	27.0	21.3
2021	-23.9	-18.3	-17.6	19.9	-16.7	-16.3	-24.0	19.0
2022	-41.0	-23.5	-10.7	25.1	-28.6	-21.0	-14.5	21.4
2023	-20.6	0.0	25.4	15.3	-14.3	0.0	34.6	16.3
2024	-42.2	-17.6	-9.1	23.0	-29.4	-15.8	-12.5	19.2
2025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Historical - Current

(Historical - Current) / Current