

Northern CVP Water Temperature Report

January - 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
Dec	51.5	51.3	50.4	50.8	50.8	50.8	50.2	49.7	49.8	49.3	44.2	43.8	44.4	3003	680	4162	49.4	46.9	48.9
01/01	51.1	50.6	50.2	50.2	50.2	50.3	49.7	48.9	48.8	49.0	45.8	45.2	45.3	10161	1863	11684	47.5	45.8	46.5
01/02	51.8	51.1	50.1	50.3	50.3	50.4	50.3	49.8	49.8	49.7	45.5	45.3	45.6	13000	1859	14599	50.5	49.3	49.8
01/03	52.1	51.5	50.2	51.2	51.0	51.1	50.6	50.4	50.5	50.0	45.4	45.7	45.8	13081	1866	14933	50.0	49.7	50.1
01/04	51.9	51.3	50.1	51.0	51.0	51.2	50.6	50.0	50.1	48.8	45.3	45.5	45.9	12922	1871	14885	48.0	47.2	48.1
01/05	52.0	51.3	50.1	51.0	51.0	51.2	50.9	50.4	50.4	49.1	45.6	45.7	46.7	13859	1377	14924	53.0	49.1	50.8
01/06	51.9	51.3	50.0	51.2	51.2	51.4	51.2	50.8	50.9	49.1	45.8	46.0	47.1	14940	595	14978	54.0	52.9	53.6
01/07	52.0	51.4	49.2	51.2	51.1	51.2	50.9	50.5	50.7	48.4	45.9	46.2	46.5	15198	145	15048	58.5	57.0	56.5
01/08	52.0	51.4	46.0	51.2	51.2	51.3	50.8	50.1	50.2	48.2	46.0	45.7	45.5	15597	30	15048	↓ 62.0	49.9	54.2
01/09	51.9	51.3	49.4	51.2	51.2	51.4	50.9	50.4	50.4	48.6	45.9	45.5	45.3	15097	175	30127	↓ 63.5	54.7	54.8
01/10	51.6	51.0	47.5	51.1	51.1	51.2	50.8	50.4	50.5	48.3	45.8	45.4	45.3	15244	47	15004	49.5	45.9	50.8
01/11	51.4	50.9	49.7	50.7	50.7	50.8	50.4	50.0	50.1	47.6	45.7	45.3	45.1	13847	484	14999	52.5	53.0	54.2
01/12	51.4	50.7	45.8	50.7	50.6	50.6	50.1	49.5	49.6	47.2	45.5	44.7	43.9	15097	32	15000	54.0	53.0	53.1
01/13	51.5	50.9		50.6	50.5	50.6	50.0	49.4	49.5	47.6	45.3	44.3	43.6	15701	11	14952	56.5	52.5	52.5
01/14	51.3	50.7		50.6	50.6	50.7	50.3	49.6	49.5	47.7	45.0	44.2	43.6	13177	11	12944	57.0	48.0	51.5
01/15	51.1	50.6		50.6	50.6	50.8	50.2	49.6	49.7	47.8	44.8	44.1	43.8	12148	9	11185	48.5	44.8	47.6
01/16	50.9	50.3		50.4	50.4	50.6	50.1	49.5	49.6	46.8	44.8	44.5	44.2	10082	8	9724	49.5	43.8	46.9
01/17	50.7	50.2		50.2	50.2	50.3	49.6	49.1	49.3	46.3	44.9	44.2	44.1	8707	11	8155	46.0	41.9	45.1
01/18	50.8	50.3		50.1	50.0	50.0	49.2	48.6	48.8	46.2	45.0	44.2	43.8	7864	11	7078	49.0	43.1	46.2
01/19	50.7	50.1		50.0	49.8	49.9	48.9	48.3	48.5	45.8	45.0	44.0	43.5	6535	11	6074	46.0	40.7	44.9
01/20	50.7	50.2		49.9	49.7	49.7	48.8	48.0	48.1	45.9	45.0	43.7	43.0	6131	11	5801	49.5	49.0	51.3
01/21	50.6	50.1		49.7	49.5	49.5	48.4	47.5	47.7	45.4	44.8	43.3	42.5	6280	10	5905	46.0	40.5	44.4
01/22	50.5	50.0		49.8	49.7	49.8	48.7	47.7	47.7	46.1	44.7	43.4	42.6	5887	10	5789	52.5	45.5	51.3
01/23	50.4	49.9		49.7	49.6	49.8	49.0	48.2	48.2	46.3	44.5	43.4	42.9	5929	11	5630	53.0	46.5	52.0
01/24	50.4	49.7		49.7	49.7	49.8	49.1	48.4	48.4	46.2	44.4	43.6	43.3	5147	11	5441	51.0	45.1	47.2
01/25	50.6	49.9		49.5	49.3	49.1	48.3	47.7	47.8	45.3	44.4	43.3	42.7	5017	11	5254	51.5	50.1	50.4
01/26	50.3	49.7		49.0	48.9	48.7	47.7	46.8	46.8	45.1	44.3	43.0	42.2	4915	10	5090	51.5	48.7	48.2
01/27	50.1	49.5		49.1	49.0	49.0	48.1	47.0	47.0	45.5	44.1	42.9	42.1	4843	10	4893	51.5	46.1	48.7
01/28	49.9	49.3		49.2	49.1	49.1	48.1	47.3	47.4	45.3	43.8	42.7	42.1	4213	11	4696	47.0	41.3	44.0
01/29	50.0	49.1		49.1	49.0	49.0	48.0	47.2	47.3	45.1	43.8	42.7	42.0	4507	88	4664	42.0	38.7	41.1
01/30	49.8	49.1		49.0	49.0	49.0	48.0	47.2	47.3	45.1	44.0	42.8	42.3	5883	162	4672	43.0	39.8	42.5
01/31	49.7	48.8		48.9	48.9	48.8	48.3	47.9	47.8	45.7	44.2	43.6	43.6	4289	316	4667	45.5	45.1	45.9
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	49.3

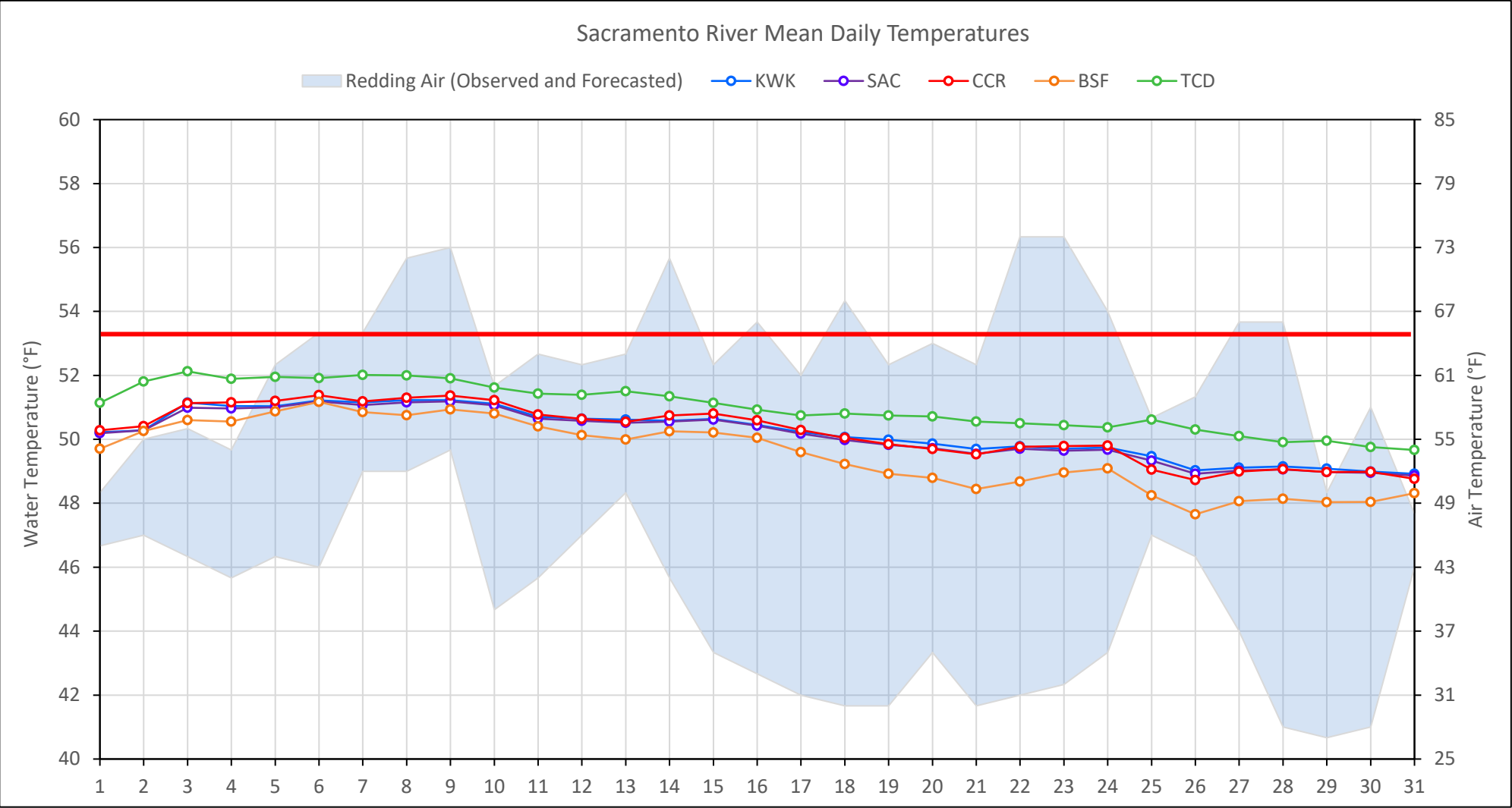
Total CFS	305298	11077	323843
Total AF	605546	21971	642329

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



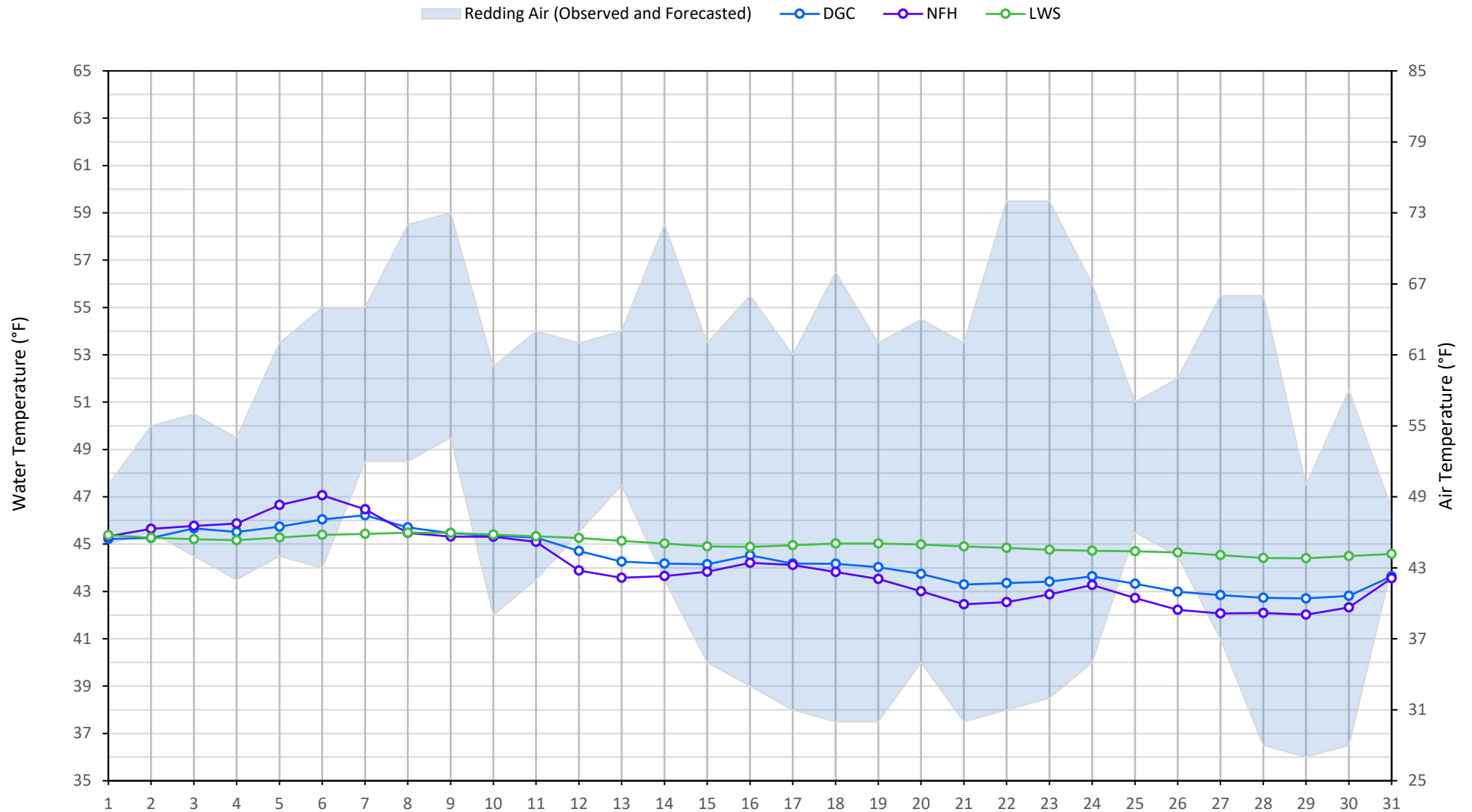
Station Details			
Code	Body of Water	Location ¹	CDEC Link
TCD	N/A	Shasta Power Plant	N/A
SHD	Sacramento River	0.3 miles downstream of Shasta Power Plant	Click Here
SPP	N/A	Spring Creek Power Plant	N/A
KWK	Sacramento River	0.8 miles downstream of Keswick Dam	Click Here
SAC	Sacramento River	4.8 miles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

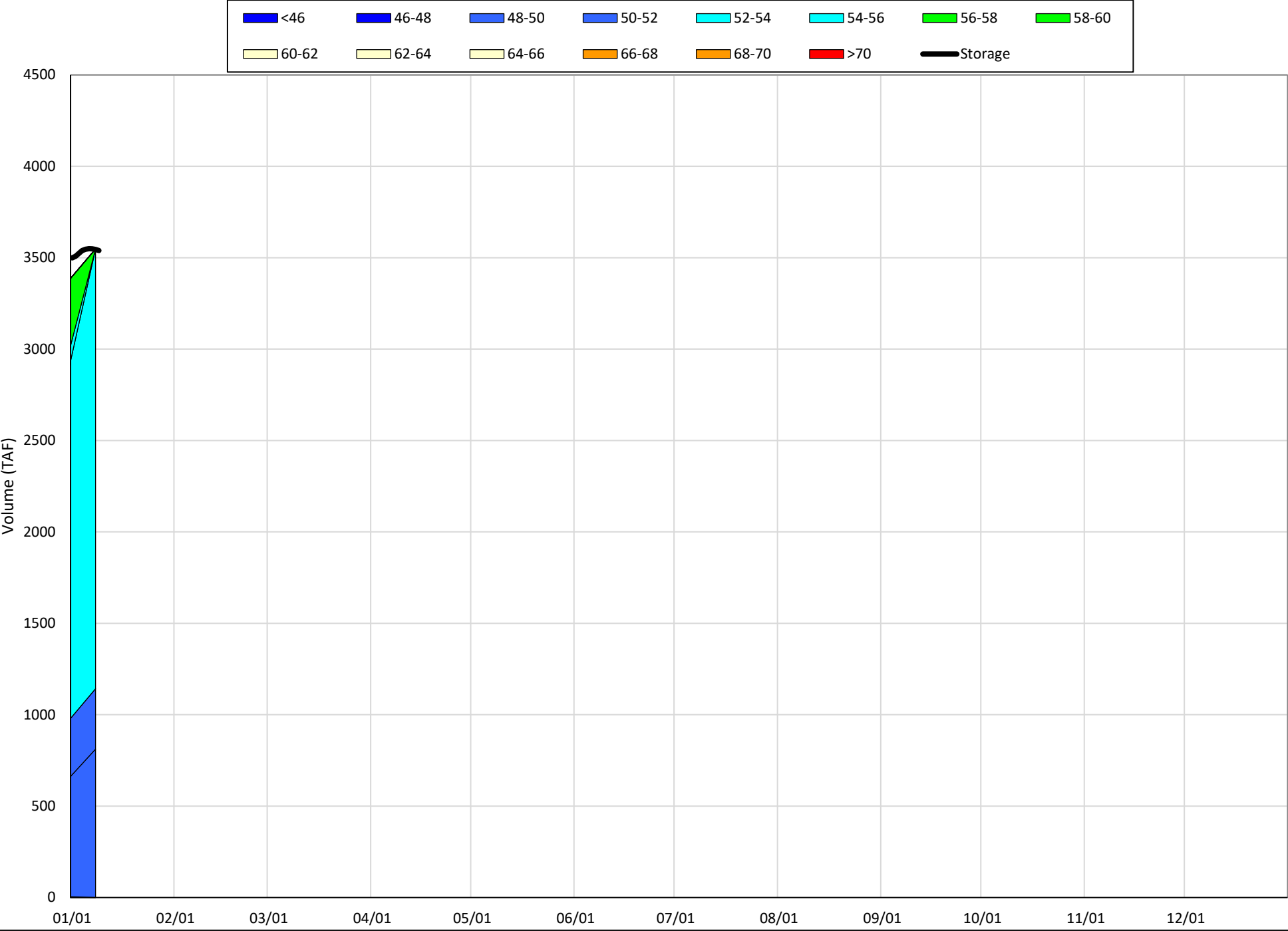
¹ Distances are approximate

Shasta Lake Isothermobaths & Cold Water Pool Statistics

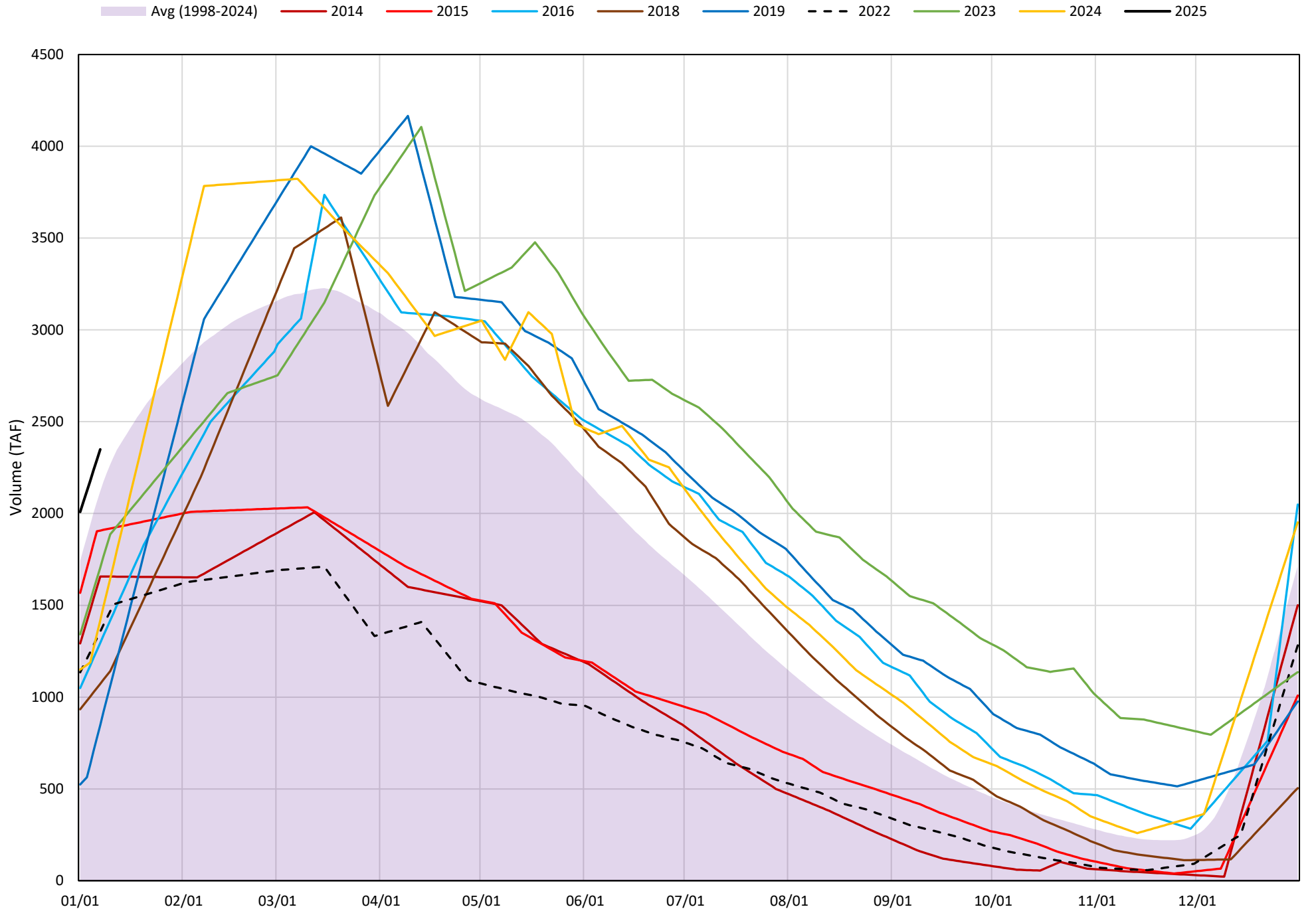
2025

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13	- Shasta Lake Cold Water Pool Comparison by Year

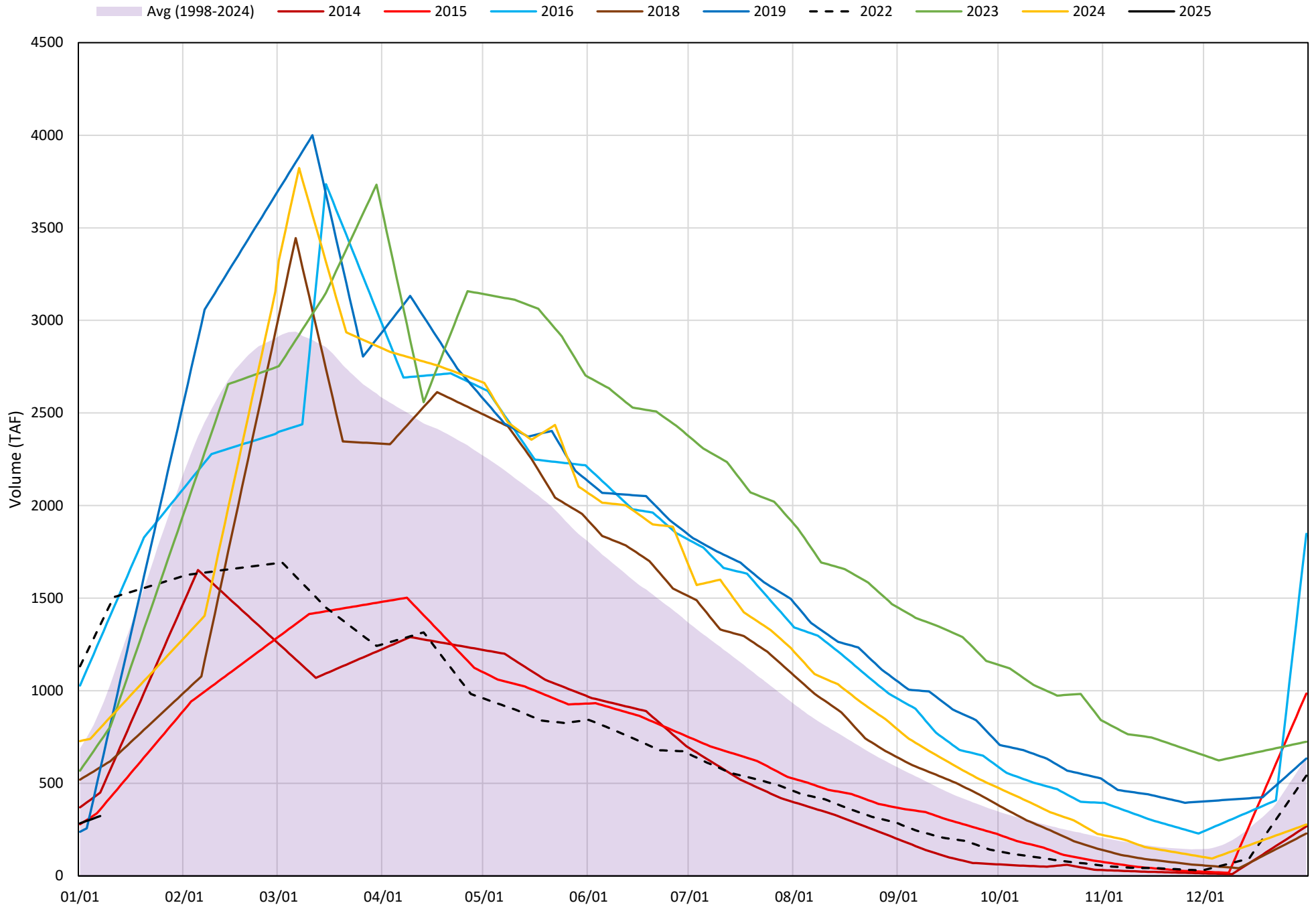
Shasta Lake Isothermobaths Plot - 2025



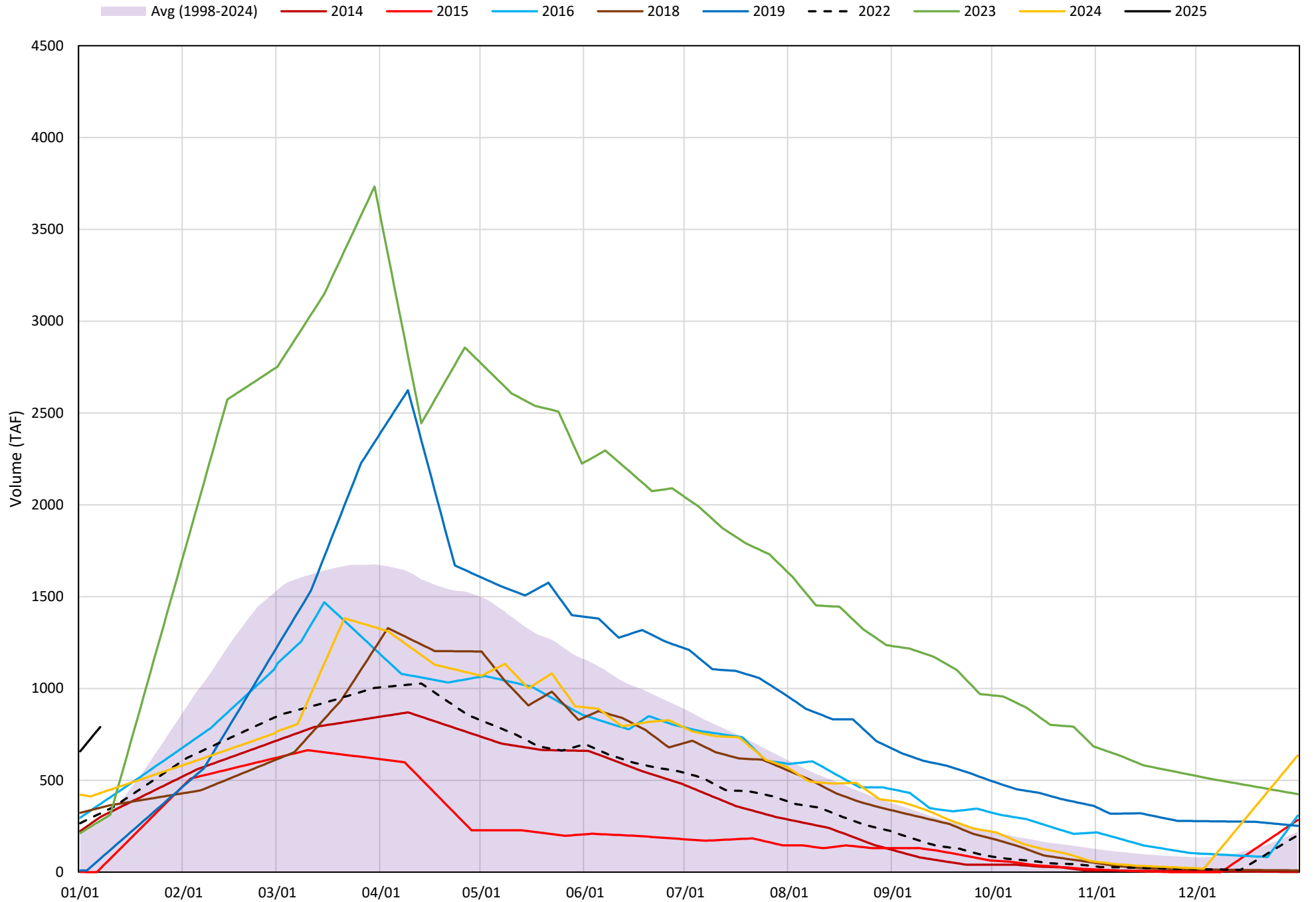
Shasta Lake Cold Water Pool Volume ≤52°F



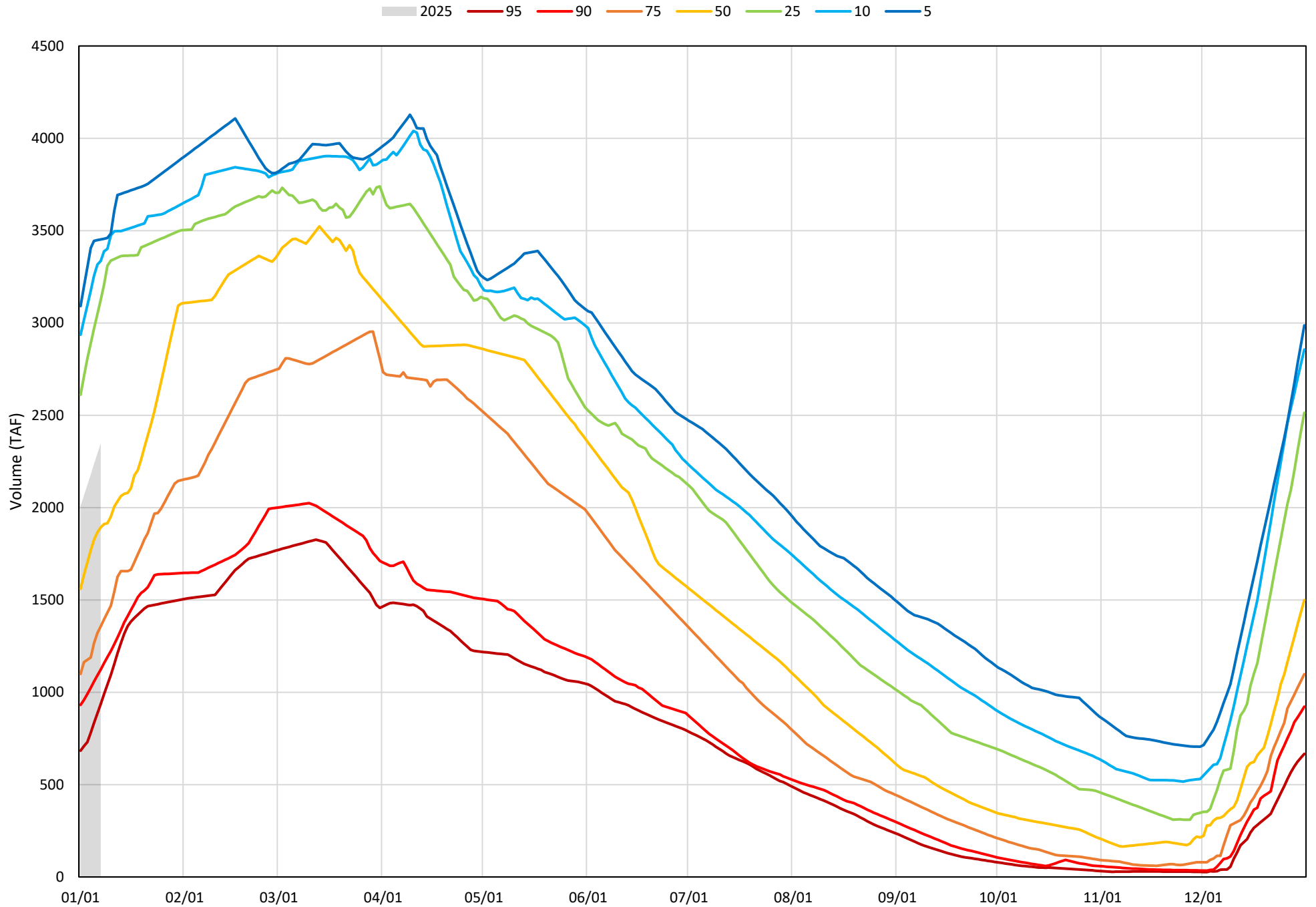
Shasta Lake Cold Water Pool Volume ≤50°F



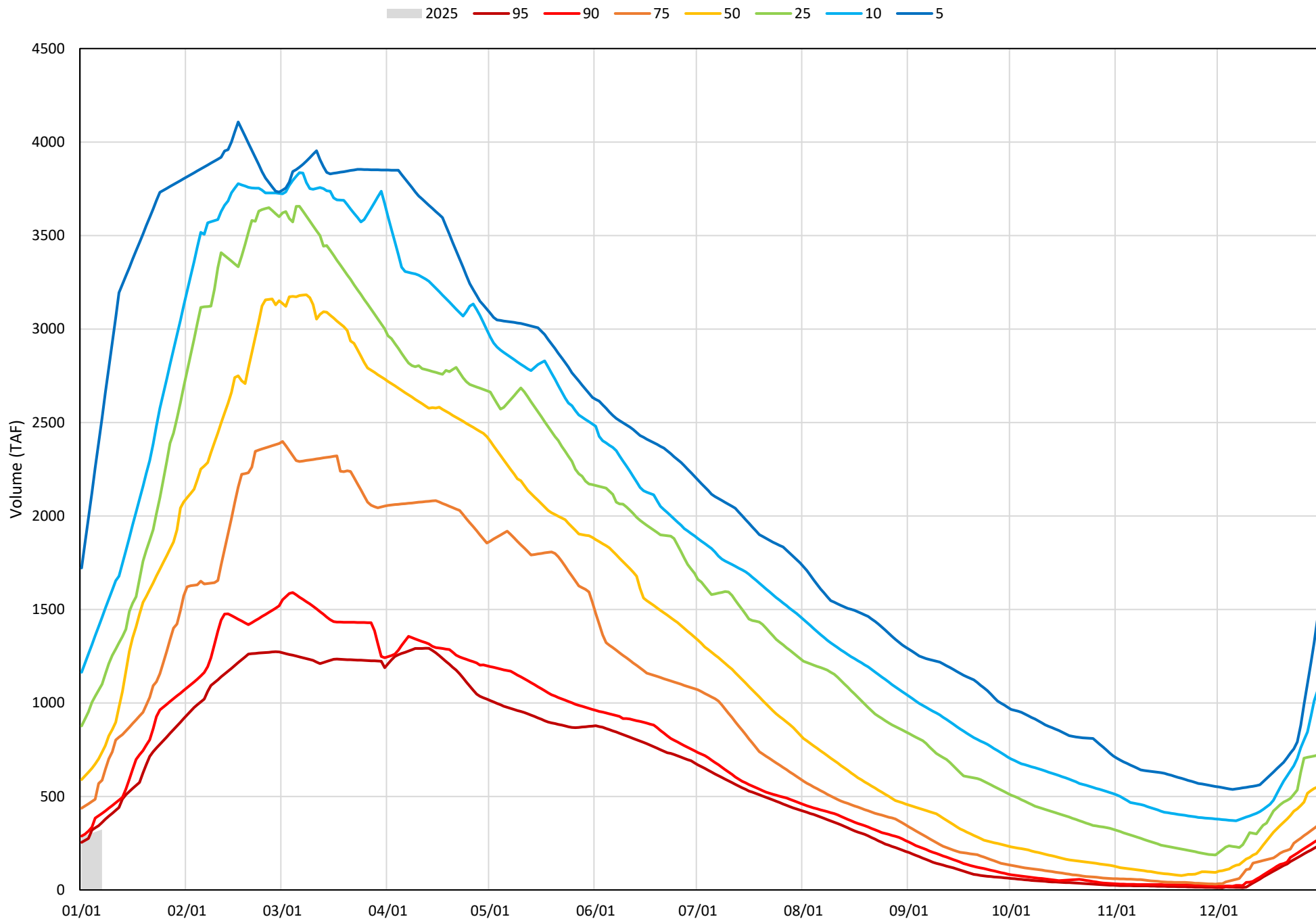
Shasta Lake Cold Water Pool Volume ≤48°F



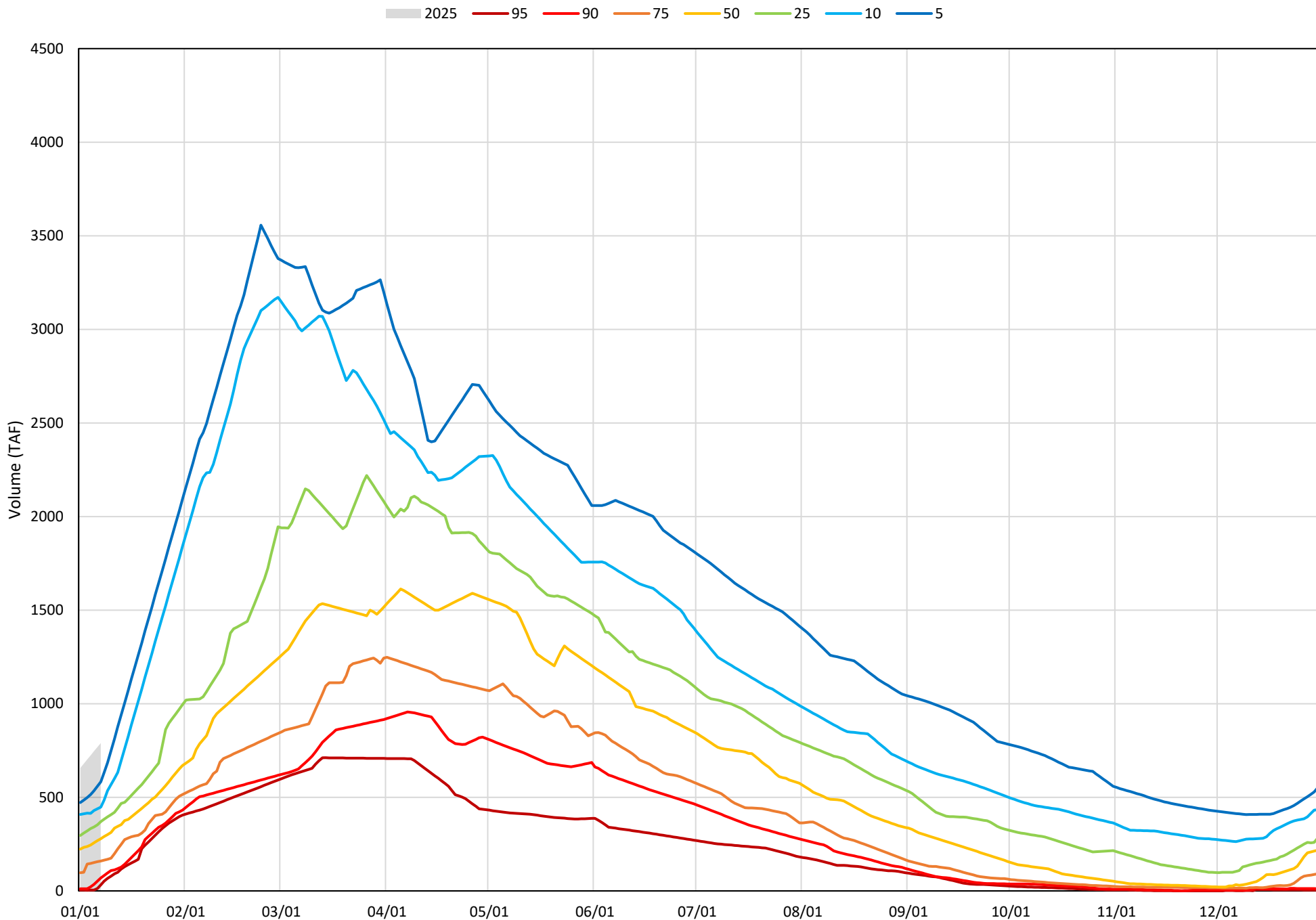
Shasta Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances (1998-2024)



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)

Jan-08 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	-1212	773	-562	849	-52	239	-71	121
1999	965	777	-140	627	41	240	-18	100
2000	66	387	-537	330	3	120	-68	63
2001	-295	97	-690	361	-13	30	-87	43
2002	-369	1541	-452	787	-16	476	-57	183
2003	947	450	-497	632	40	139	-63	81
2004	1079	331	-735	715	46	102	-93	80
2005	-862	878	-527	756	-37	271	-67	125
2006	846	569	-584	666	36	176	-74	95
2007	777	353	-534	555	33	109	-68	70
2008	-497	263	-374	378	-21	81	-47	50
2009	-1192	832	-630	885	-51	257	-80	129
2010	-456	375	-492	441	-19	116	-62	66
2011	1119	413	-690	741	48	128	-87	88
2012	567	291	-351	403	24	90	-44	53
2013	919	473	-411	601	39	146	-52	79
2014	-692	127	-490	436	-29	39	-62	44
2015	-442	36	-772	416	-19	11	-98	43
2016	-1054	957	-420	810	-45	296	-53	131
2017	701	2642	-307	1217	30	817	-39	295
2018	-1277	263	-439	660	-54	81	-56	64
2019	-1501	254	-717	824	-64	78	-91	78
2020	-1132	421	-535	696	-48	130	-68	82
2021	-570	42	-710	441	-24	13	-90	42
2022	-992	1033	-470	832	-42	319	-60	140
2023	-644	403	-511	519	-27	125	-65	72
2024	-931	475	-360	589	-40	147	-46	77
2025	0	0	0	0	0	0	0	0

Historical - Current

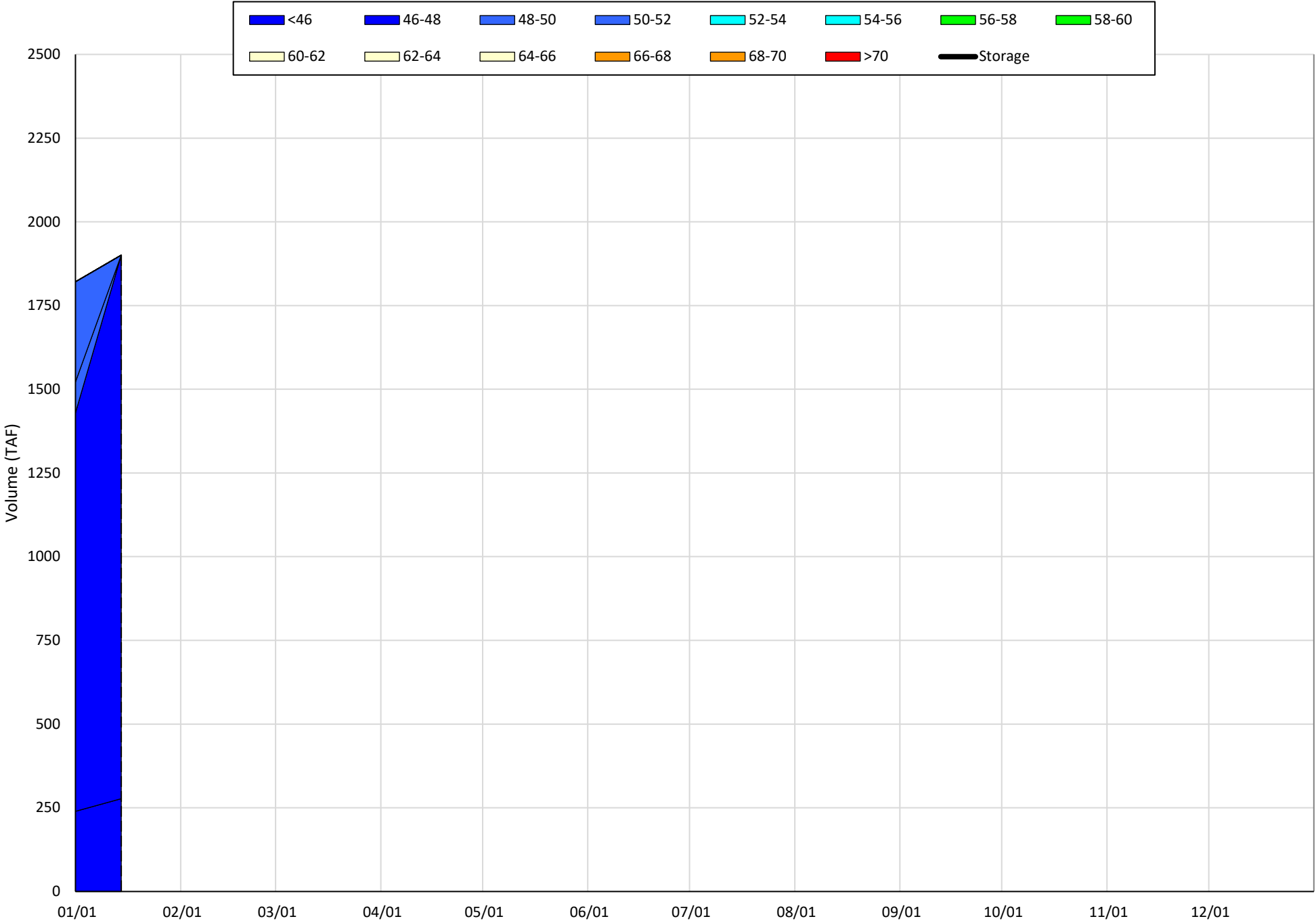
(Historical - Current) / Current

Trinity Lake Isothermobaths & Cold Water Pool Statistics

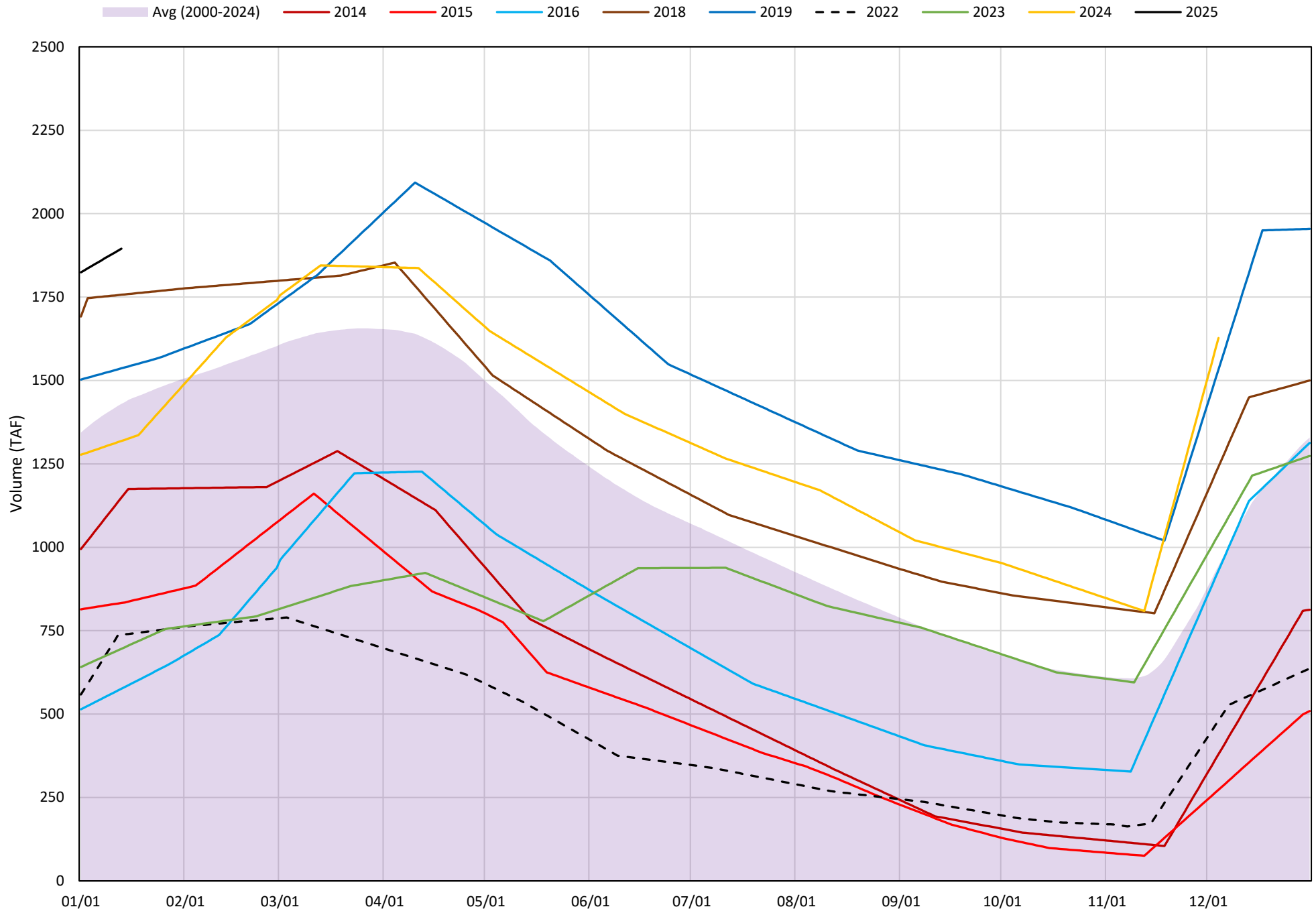
2025

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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

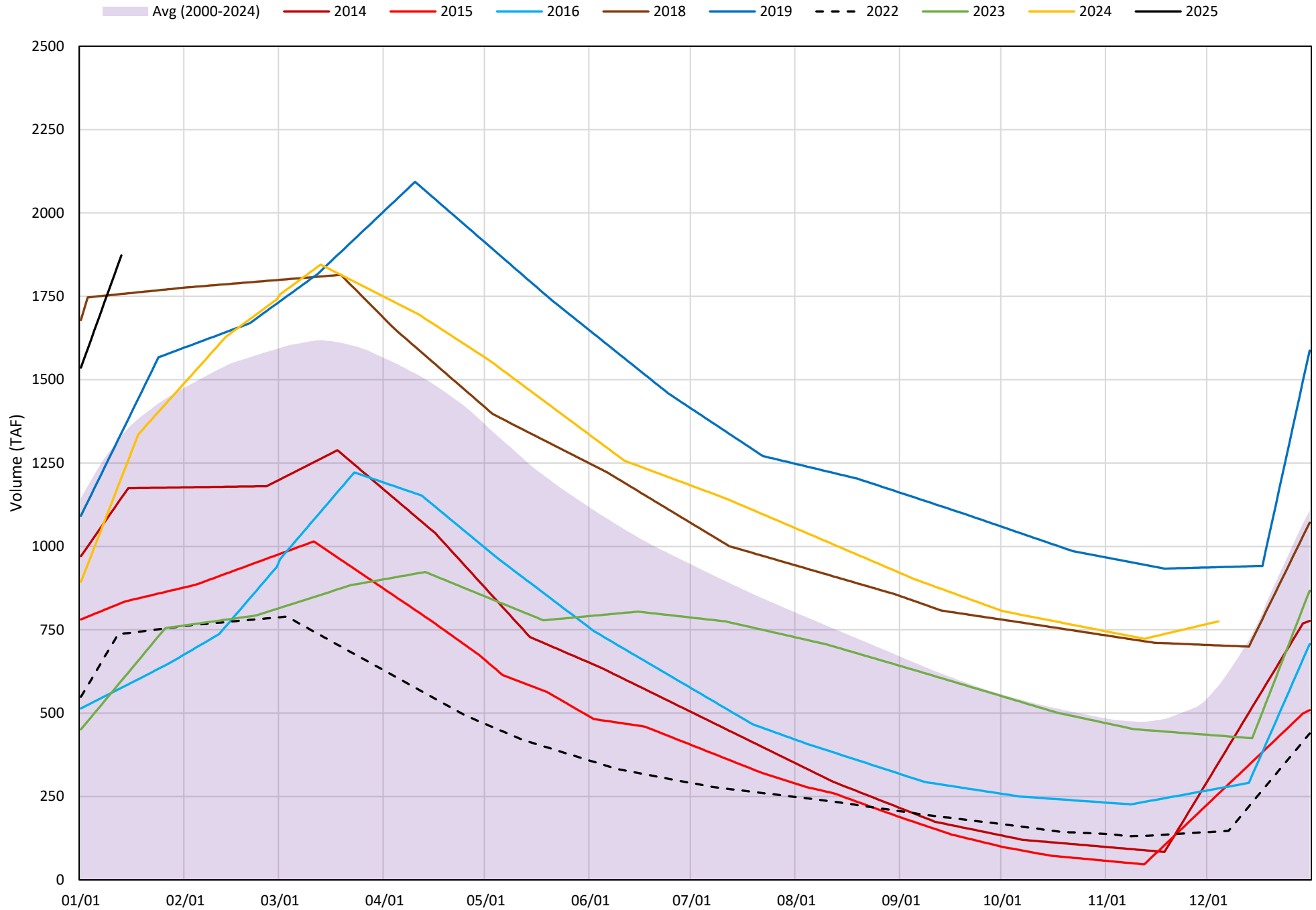
Trinity Lake Isothermobaths Plot - 2025



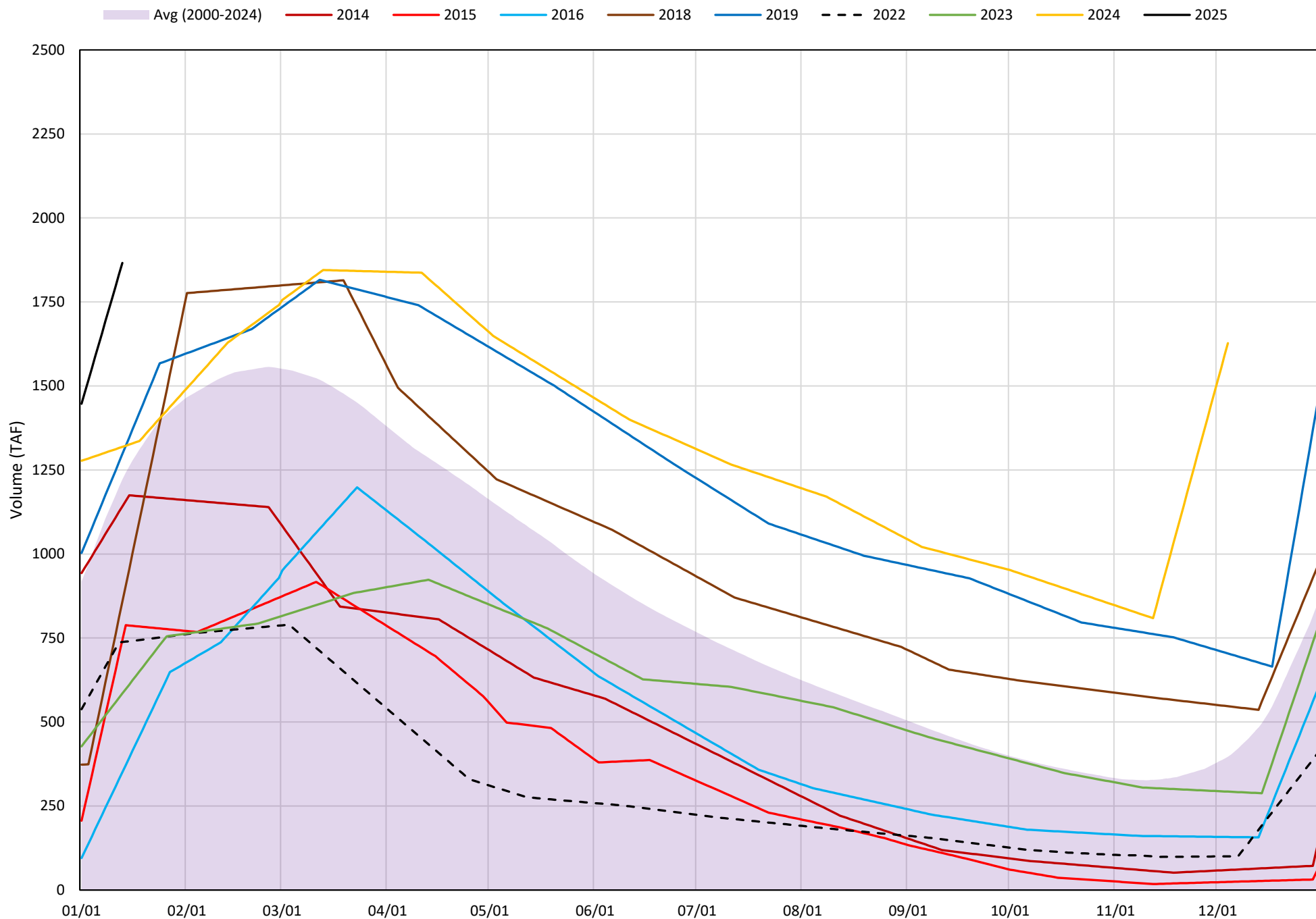
Trinity Lake Cold Water Pool Volume ≤52°F



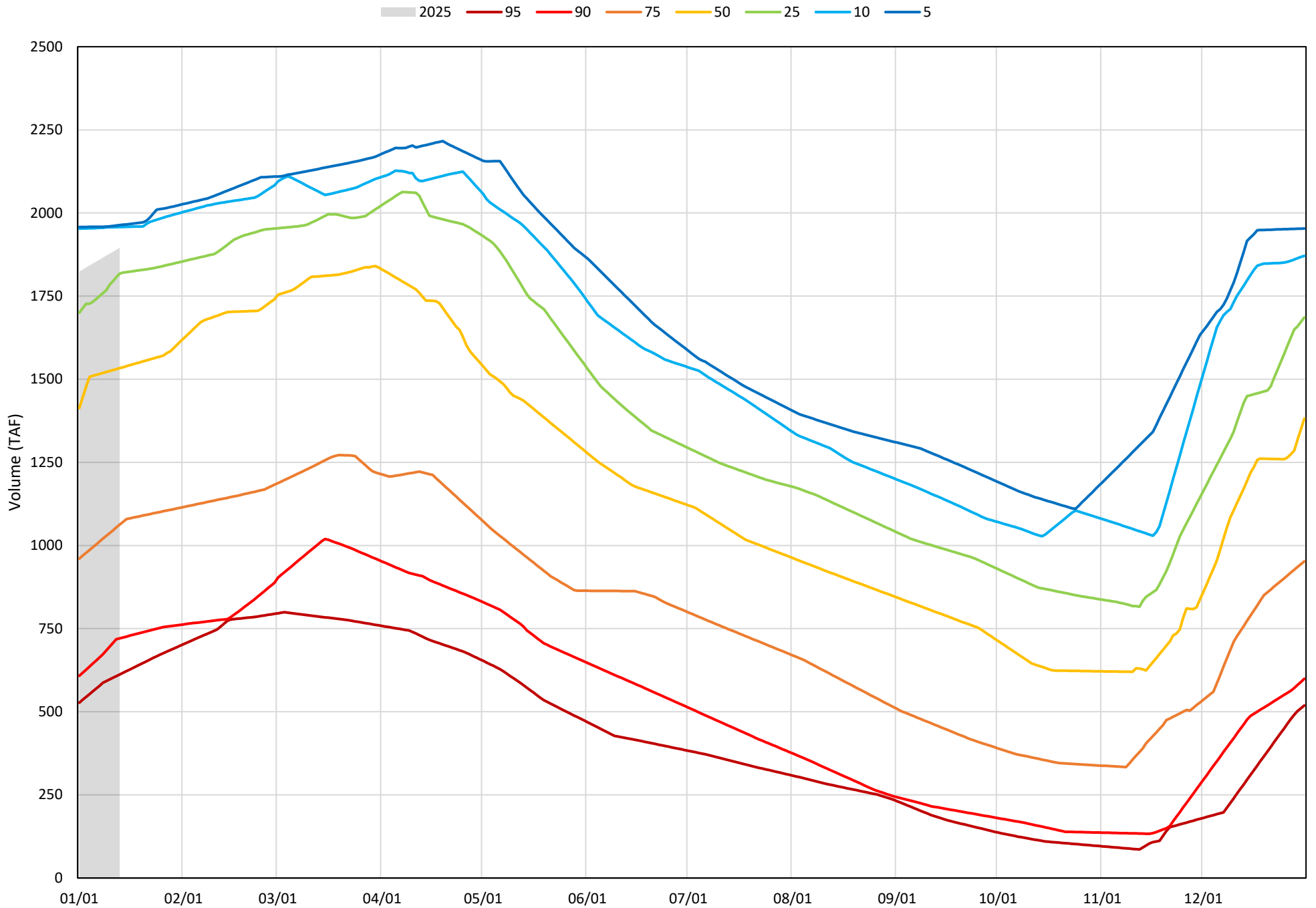
Trinity Lake Cold Water Pool Volume ≤50°F



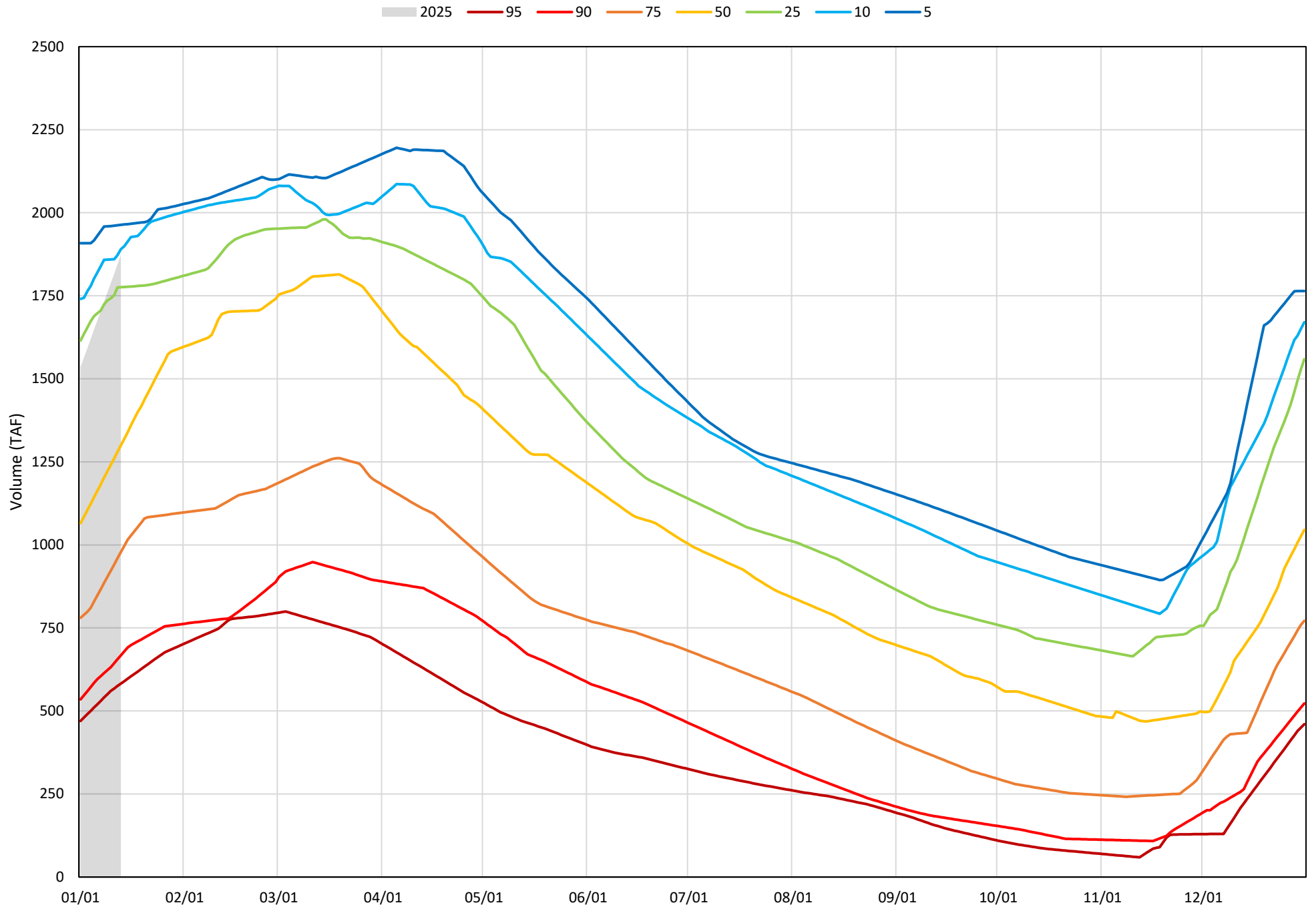
Trinity Lake Cold Water Pool Volume ≤48°F



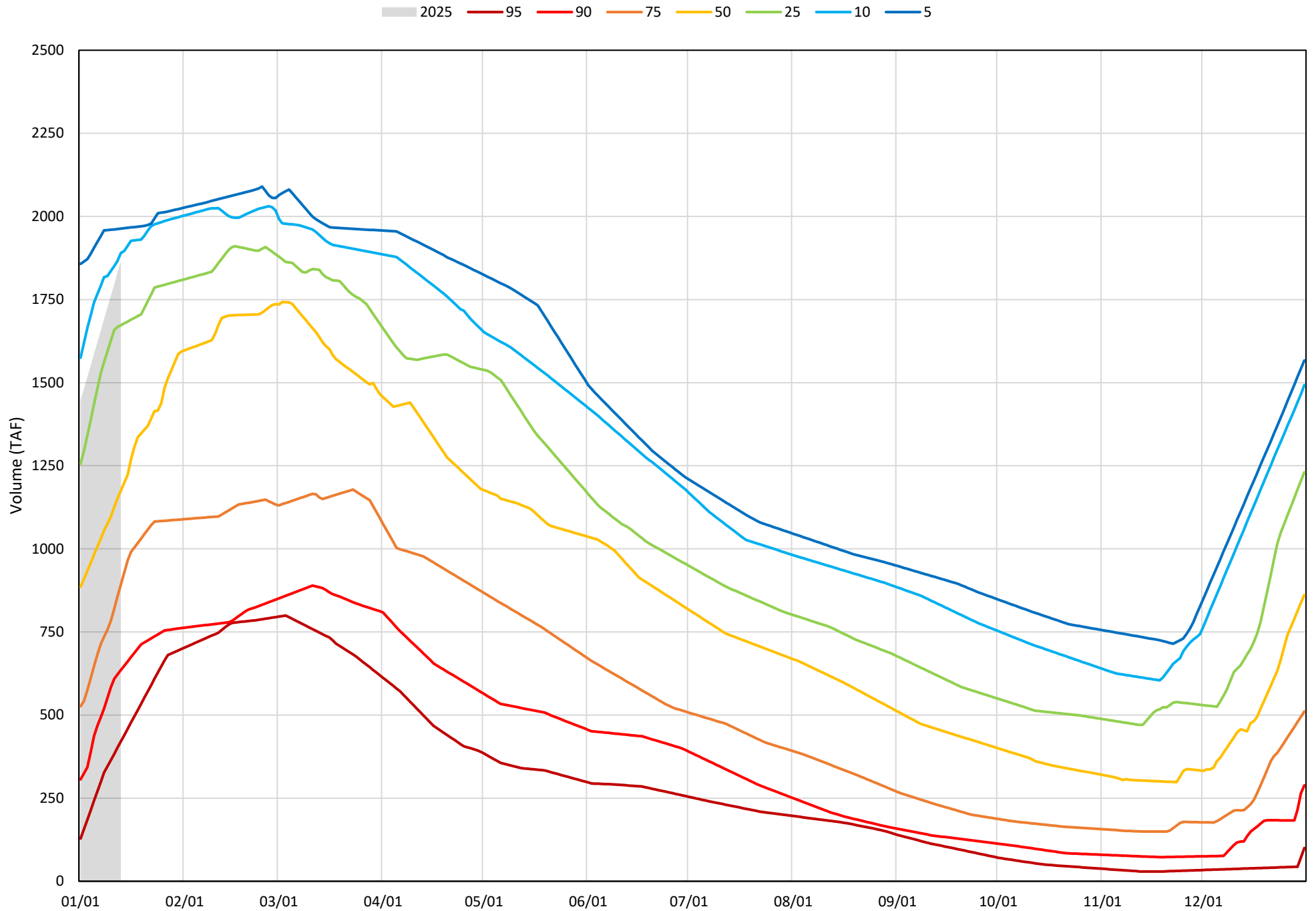
Trinity Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances (2000-2024)



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)

Jan-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	64	86	93	81	3	5	5	4
2001	-194	-172	-757	374	-10	-9	-41	20
2002	-569	-573	-606	582	-30	-31	-32	31
2003	-249	-227	-261	246	-13	-12	-14	13
2004	-51	-29	-22	34	-3	-2	-1	2
2005	-362	-823	-937	707	-19	-44	-50	38
2006	-50	-55	-93	66	-3	-3	-5	4
2007	-101	-78	-444	208	-5	-4	-24	11
2008	-531	-512	-511	518	-28	-27	-27	28
2009	-944	-924	-920	929	-50	-49	-49	49
2010	-919	-1158	-1197	1091	-48	-62	-64	58
2011	-154	-132	-125	137	-8	-7	-7	7
2012	62	-574	-691	442	3	-31	-37	24
2013	-55	-36	-37	42	-3	-2	-2	2
2014	-746	-727	-725	733	-39	-39	-39	39
2015	-1062	-1042	-1123	1076	-56	-56	-60	57
2016	-1319	-1297	-1515	1377	-70	-69	-81	73
2017	-456	-865	-926	749	-24	-46	-50	40
2018	-138	-116	-1008	421	-7	-6	-54	23
2019	-359	-533	-569	487	-19	-28	-30	26
2020	70	92	99	87	4	5	5	5
2021	-642	-737	-752	710	-34	-39	-40	38
2022	-1157	-1135	-1128	1140	-61	-61	-60	61
2023	-1199	-1276	-1281	1252	-63	-68	-69	67
2024	-576	-667	-680	641	-30	-36	-36	34
2025	0	0	0	0	0	0	0	0

Historical - Current

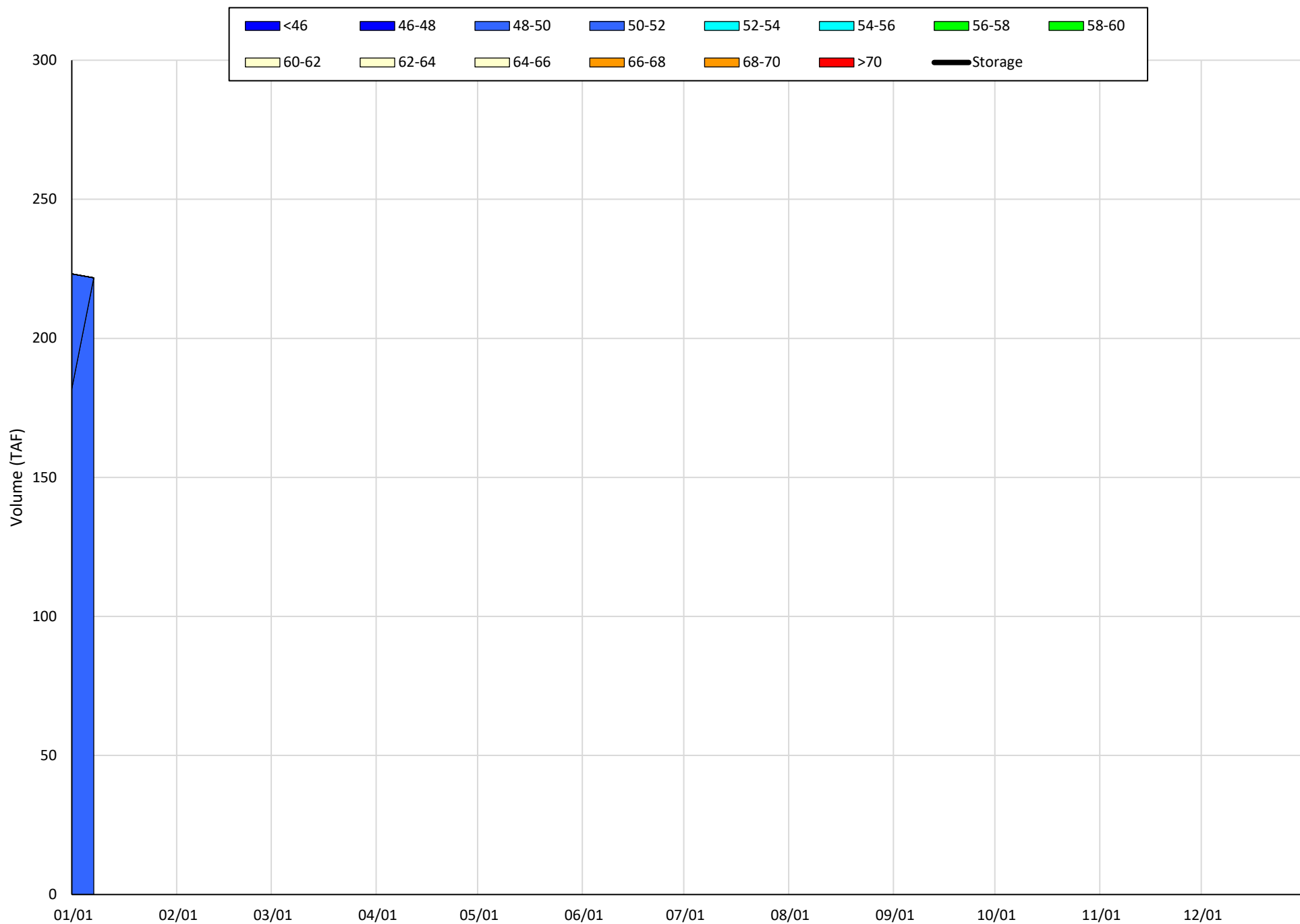
(Historical - Current) / Current

Whiskeytown Lake Isothermobaths & Cold Water Pool Statistics

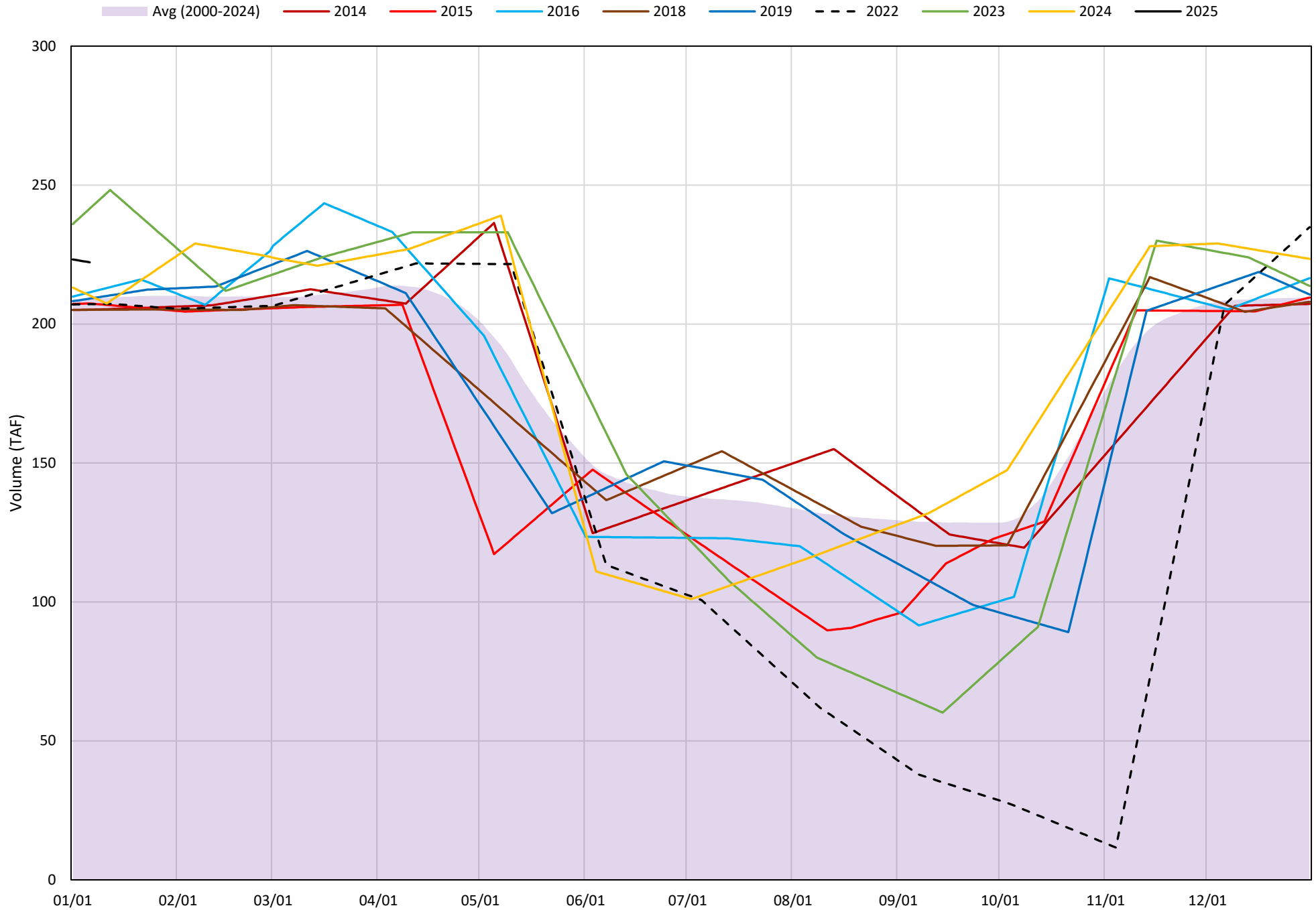
2025

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

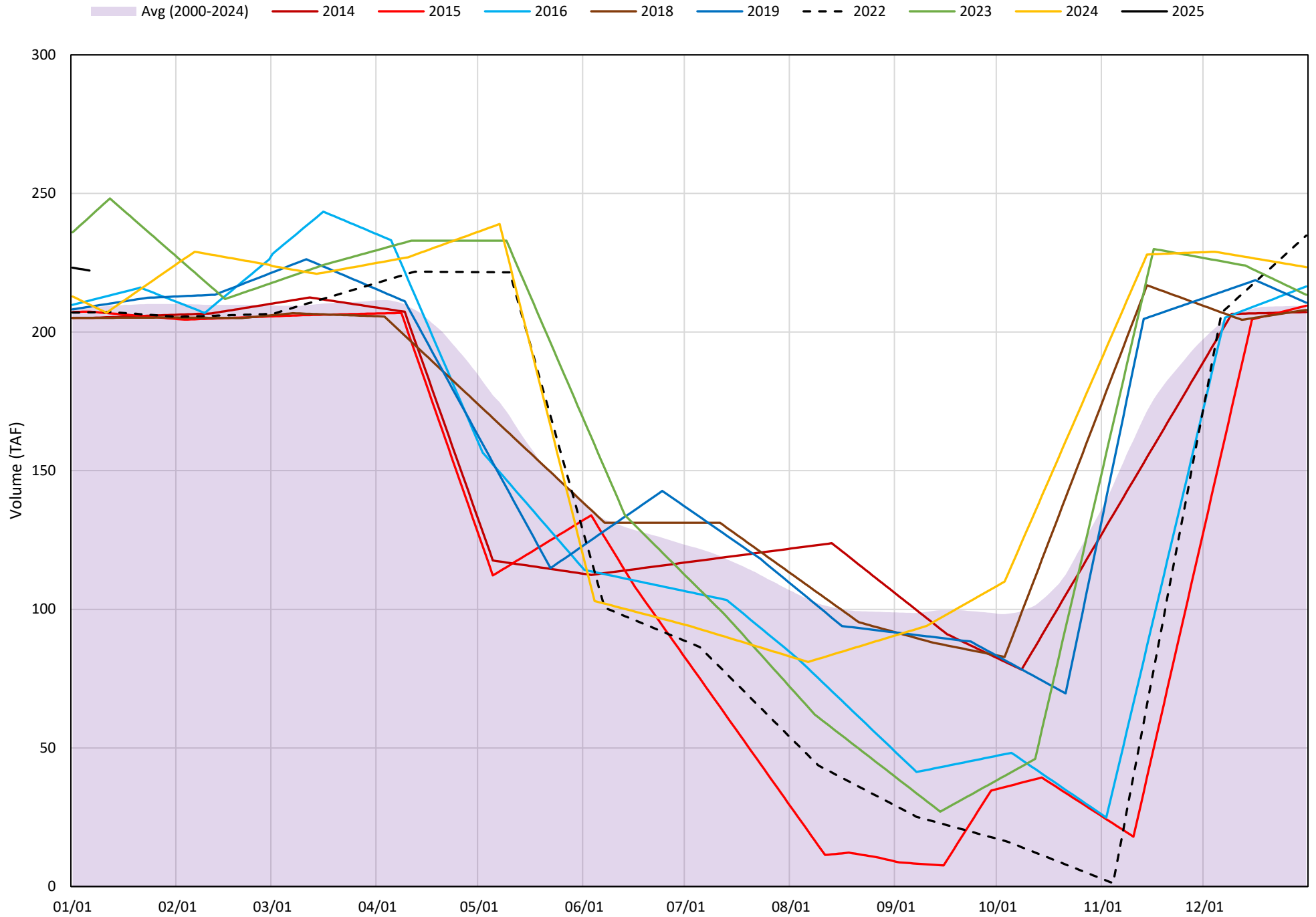
Whiskeytown Lake Isothermobaths Plot - 2025



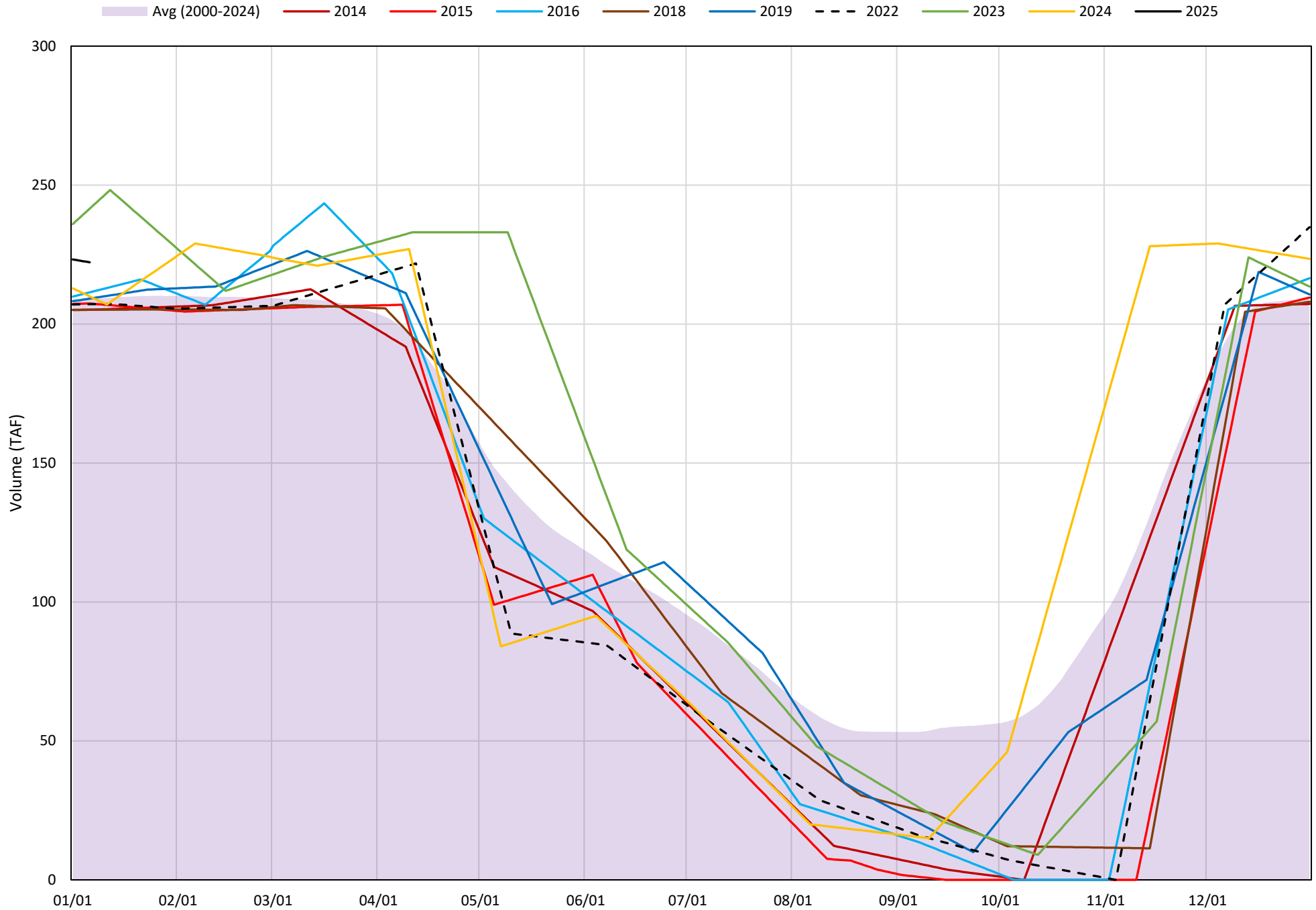
Whiskeytown Lake Cold Water Pool Volume ≤60°F



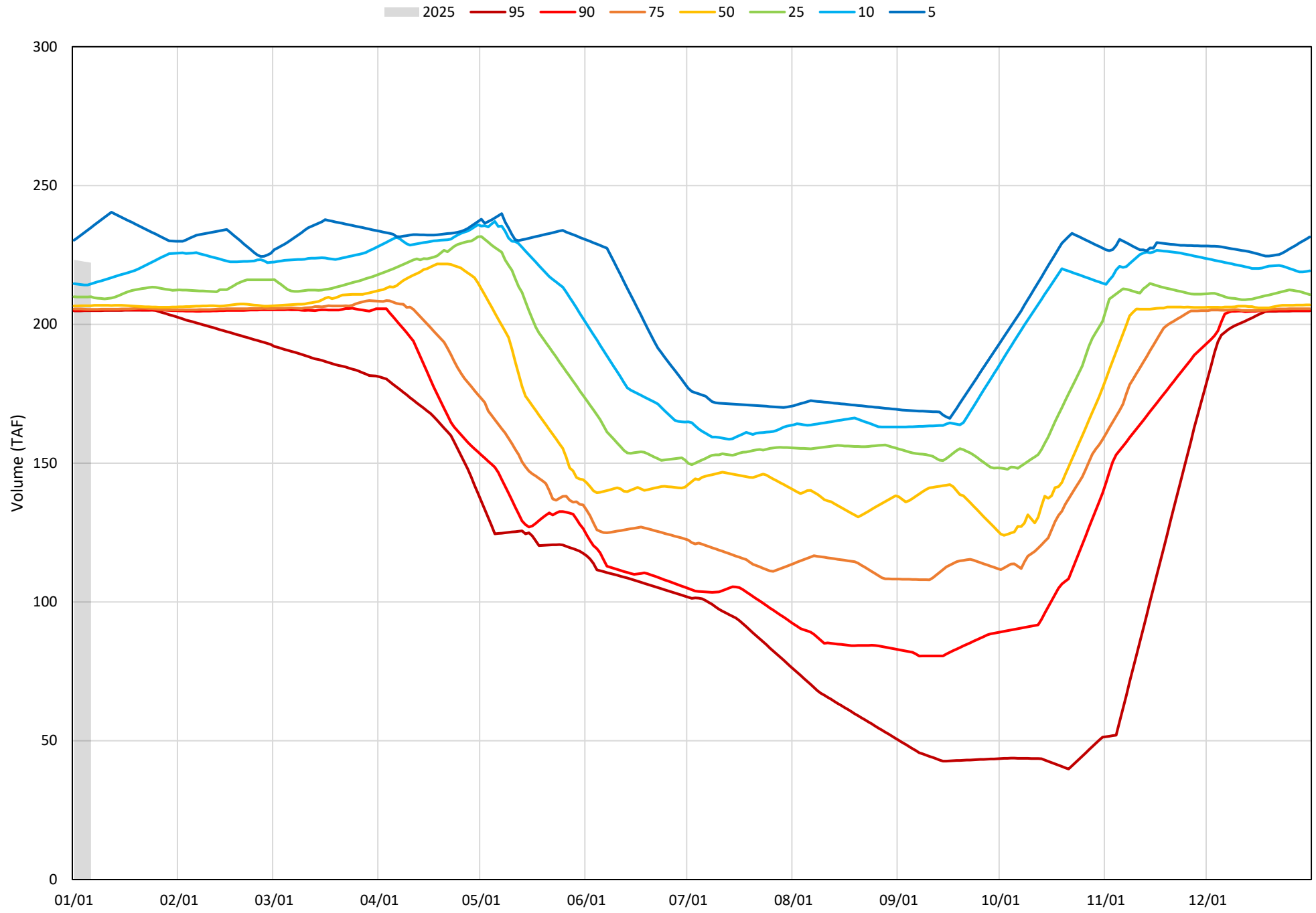
Whiskeytown Lake Cold Water Pool Volume ≤58°F



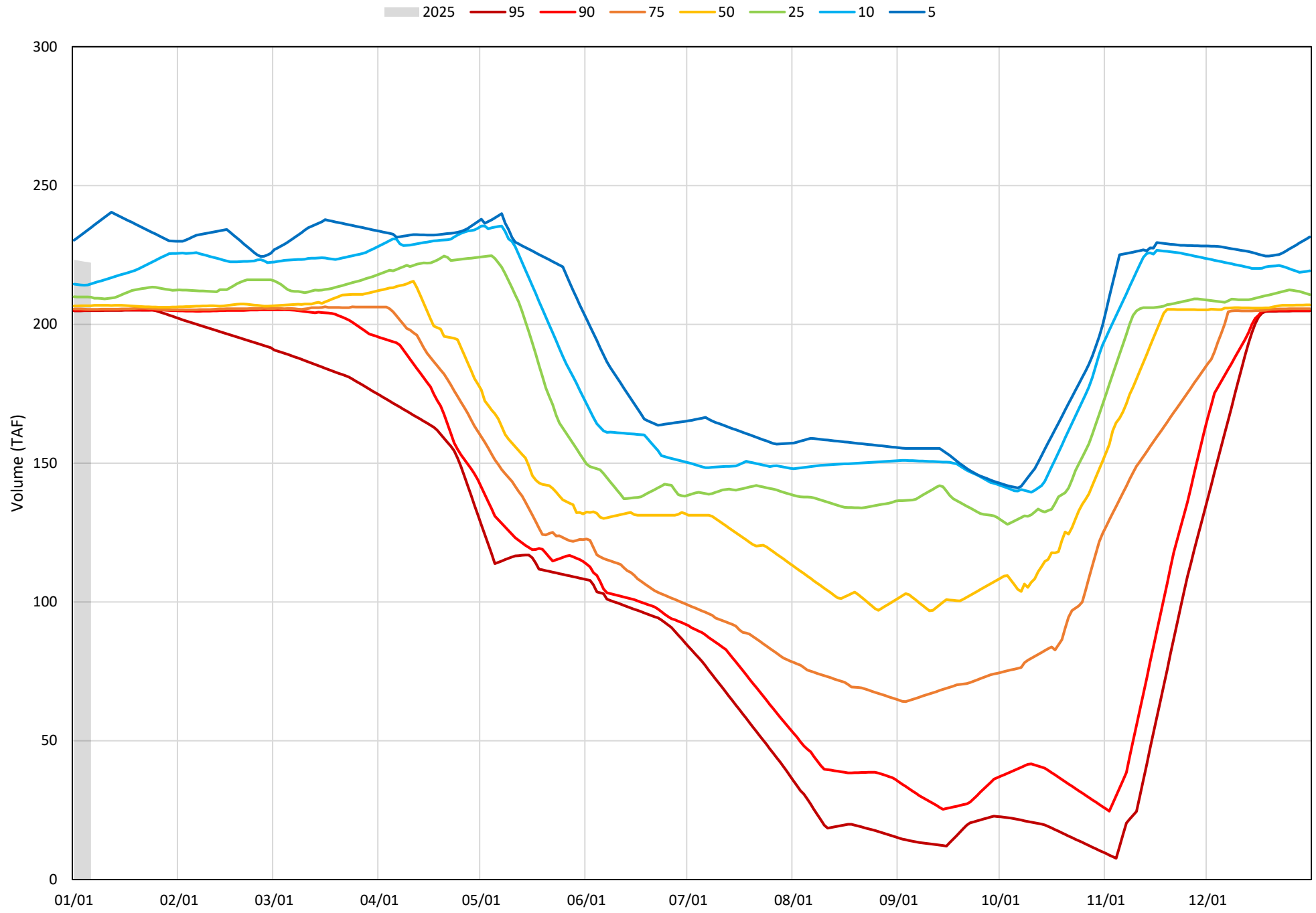
Whiskeytown Lake Cold Water Pool Volume ≤56°F



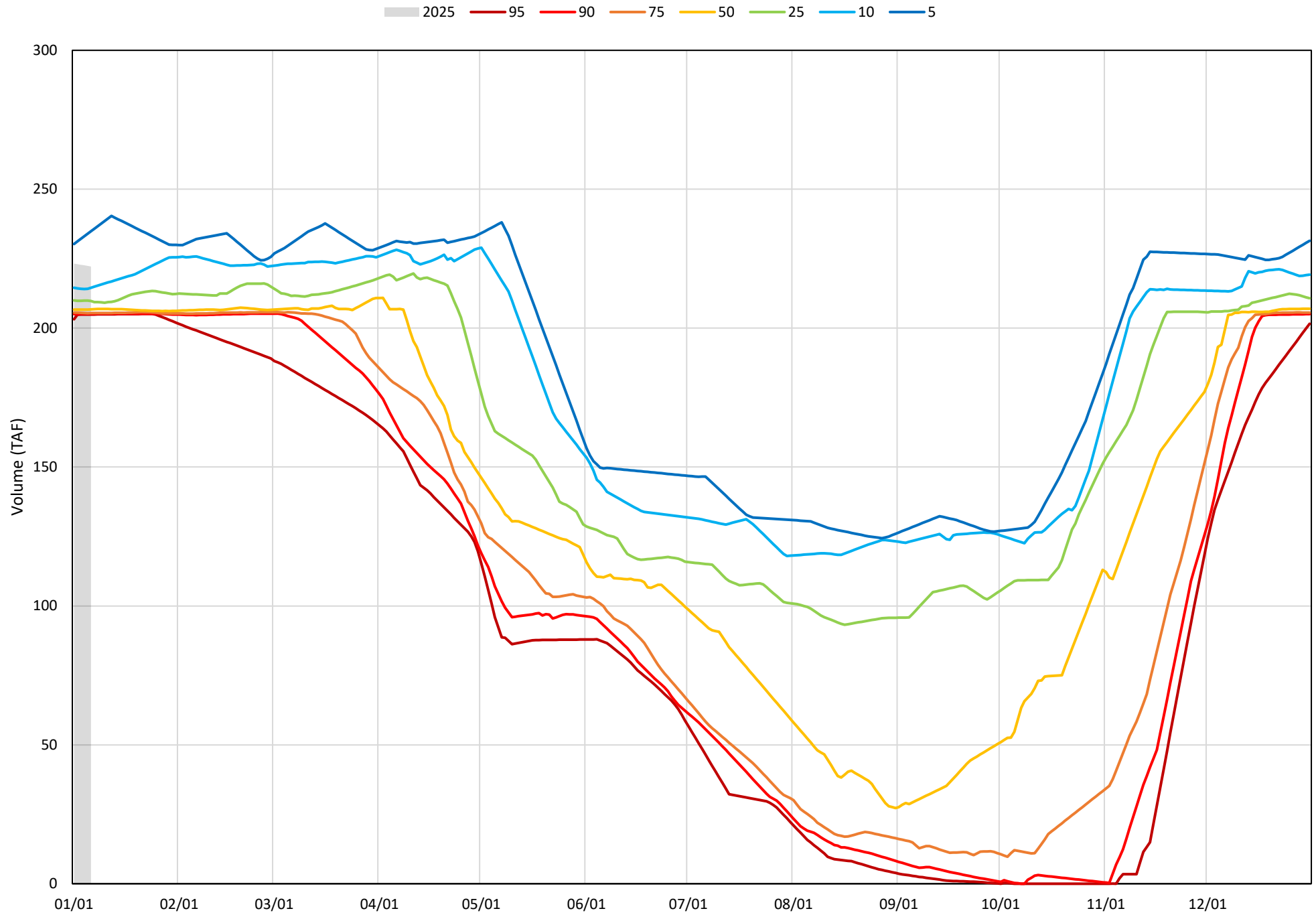
Whiskeytown Lake Cold Water Pool Volume ≤60°F - Percent Exceedances (2000-2024)



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



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



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

Jan-07 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	-16.6	-16.6	-16.6	16.6	-7.5	-7.5	-7.5	7.5
2001	-12.0	-12.0	-12.0	12.0	-5.4	-5.4	-5.4	5.4
2002	-12.6	-12.6	-12.6	12.6	-5.7	-5.7	-5.7	5.7
2003	-15.6	-15.6	-15.6	15.6	-7.0	-7.0	-7.0	7.0
2004	-15.9	-15.9	-15.9	15.9	-7.2	-7.2	-7.2	7.2
2005	-11.6	-11.6	-11.6	11.6	-5.2	-5.2	-5.2	5.2
2006	-16.4	-16.4	-16.4	16.4	-7.4	-7.4	-7.4	7.4
2007	-17.0	-17.0	-17.0	17.0	-7.7	-7.7	-7.7	7.7
2008	-17.4	-17.4	-17.4	17.4	-7.8	-7.8	-7.8	7.8
2009	-15.5	-15.5	-15.5	15.5	-7.0	-7.0	-7.0	7.0
2010	-16.1	-16.1	-16.1	16.1	-7.2	-7.2	-7.2	7.2
2011	-17.0	-17.0	-17.0	17.0	-7.6	-7.6	-7.6	7.6
2012	-16.6	-16.6	-16.6	16.6	-7.5	-7.5	-7.5	7.5
2013	-14.7	-14.7	-14.7	14.7	-6.6	-6.6	-6.6	6.6
2014	-17.1	-17.1	-17.1	17.1	-7.7	-7.7	-7.7	7.7
2015	-14.8	-14.8	-14.8	14.8	-6.7	-6.7	-6.7	6.7
2016	-10.8	-10.8	-10.8	10.8	-4.9	-4.9	-4.9	4.9
2017	-2.9	-2.9	-2.9	2.9	-1.3	-1.3	-1.3	1.3
2018	-17.1	-17.1	-17.1	17.1	-7.7	-7.7	-7.7	7.7
2019	-13.1	-13.1	-13.1	13.1	-5.9	-5.9	-5.9	5.9
2020	-14.8	-14.8	-14.8	14.8	-6.7	-6.7	-6.7	6.7
2021	-17.0	-17.0	-17.0	17.0	-7.6	-7.6	-7.6	7.6
2022	-15.1	-15.1	-15.1	15.1	-6.8	-6.8	-6.8	6.8
2023	19.3	19.3	19.3	19.3	8.7	8.7	8.7	8.7
2024	-11.9	-12.3	-12.3	12.2	-5.4	-5.5	-5.5	5.5
2025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Historical - Current

(Historical - Current) / Current