



Sacramento River Temperature Task Group Meeting Packet

October 24, 2024

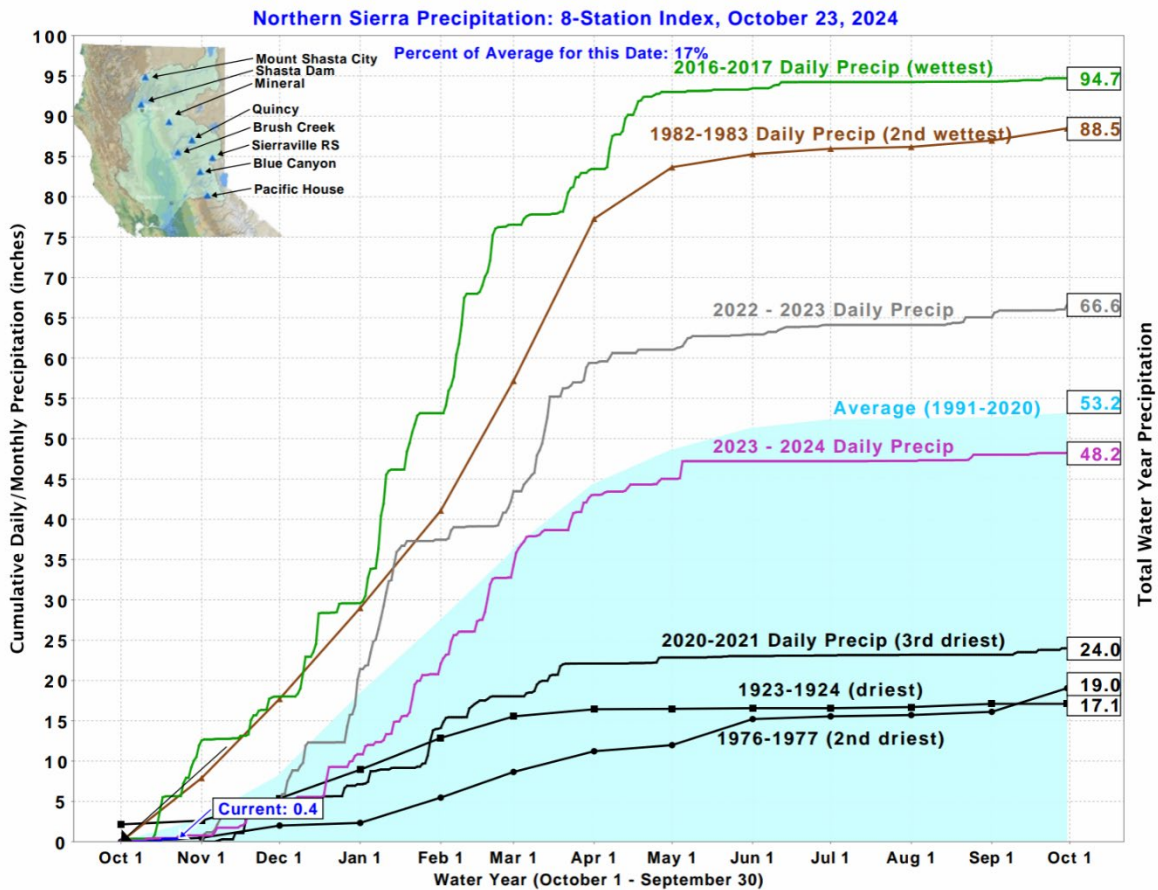


Figure 1: Northern Sierra Precipitation: 8-Station Index, October 23, 2024

This figure shows a line graph precipitation at the Northern Sierra 8-station Index. The graph includes the current cumulative daily and monthly precipitation, 0.4 (17% average for this date), in inches, average for 1991-2020 (53.2), daily precipitation for 2016-2017 (94.7 wettest), 1982-1983 (88.5 2nd wettest), 2018-2019 (70.7), 2021-2022 (43.0), 2019-2020 (31.7), 2020-2021 (24.0 3rd driest), 1976-1977 (19.0 2nd driest), and 1923-1924 (17.1 driest)

California Snow Water Content, June 28, 2024, Percent of April 1 Average

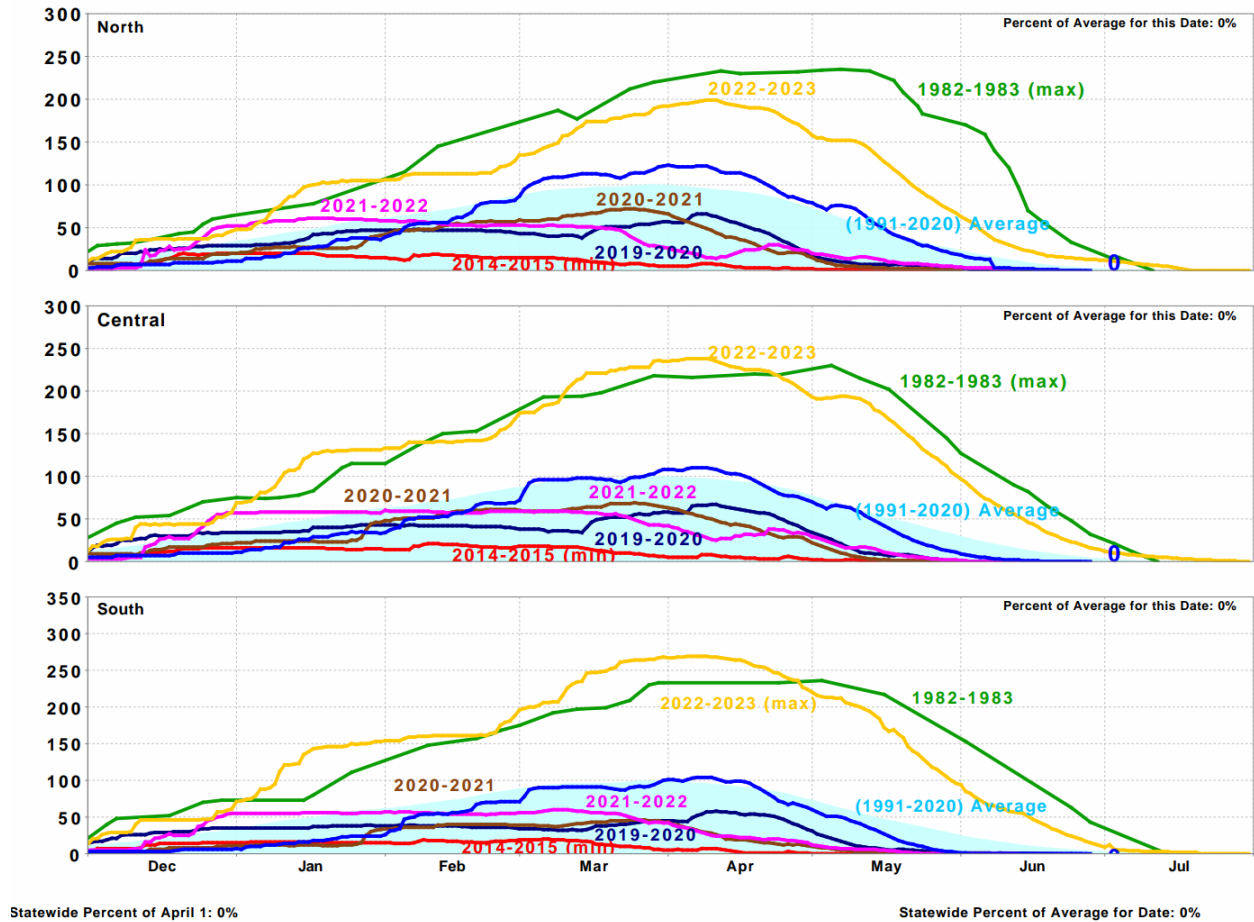


Figure 2: California Snow Water Content, June 28, 2024, Percent of April 1 Average

This figure is three line graphs showing the percent snow water content for North, Central, and Southern California, respectively. The graph also shows 1991-2020 average, 1982-1983 (max), 2014-2015 (minimum), 2019-2020, 2020-2021, 2021-2022, and 2022-2023.

Daily Central Valley Project Water Supply Report

United States Department of the Interior

U.S. Bureau of Reclamation, Central Valley Project

California Daily CVP Water Supply Report

October 22, 2024

Table 1: Reservoir Releases in Cubic Feet/Second

Reservoir	Dam	WY 2024	WY 2025	15 Yr Median
Trinity	Lewiston	298	293	302
Sacramento	Keswick	6,498	6,792	6,065
Feather	Oroville(SWP)	2,450	2,450	2,400
American	Nimbus	2,534	1,519	1,507
Stanislaus	Goodwin	865	339	794
San Joaquin	Friant	401	408	383

Table 2: Storage in Major Reservoirs in Thousands of Acre-Feet

Reservoir	Capacity	15 Yr Avg	WY 2024	WY 2025	% of 15 Yr Avg
Trinity	2,448	1,280	1,237	1,647	129
Shasta	4,552	2,347	3,201	2,648	113
Folsom	977	417	584	420	101
New Melones	2,420	1,302	1,893	1,805	139
Fed. San Luis	966	353	742	335	95
Total North CVP	11,363	5,699	7,657	6,855	120
Millerton	521	248	146	218	88
Oroville (SWP)	3,538	1,593	2,467	1,756	110

Table 3: Accumulated Inflow for Water Year to Date in Thousands of Acre-Feet

Reservoir	Current WY 2025	WY 1977	WY 1983	15 Yr Avg	% of 15 Yr Avg
Trinity	3	5	14	6	47
Shasta	120	169	178	126	95
Folsom	41	44	75	39	104
New Melones	23	N/A	36	28	83
Millerton	38	22	95	42	89

Table 4: Accumulated Precipitation for Water Year to Date in Inches

Reservoir	Current WY 2025	WY 1977	WY 1983	Average (N Years)	% of Average	Last 24 Hours
Trinity at Fish Hatchery	0.08	0.13	1.25	0.89 (64)	9	0.00
Sacramento at Shasta Dam	0.03	0.07	1.46	1.56 (69)	2	0.00
American at Blue Canyon	0.81	0.87	1.04	1.67 (50)	49	0.00
Stanislaus at New Melones	0.08	---	0.36	0.65 (47)	12	0.00
San Joaquin at Huntington Lk	0.01	1.20	0.10	1.19 (51)	1	0.00

Sacramento River Station Temperature Summary Report

Date	MDW T TCD ¹	MDW T SHD	MDW T SPP ¹	MDW T KWK	MDW T SAC	MDW T CCR ²	MDW T BSF	MDW T BND	MDW T RBD	MDW T IGO	MDW T LWS	MDW T DGC ³	MDW T NFH	MDR Shasta Genera- -tion	MDR Sprin g Creek PP	MDR Keswic k Total	MDA T RDD	MDA T BSF	MDA T RDB
Sep	50.6	49.5	56.6	51.8	52.3	53.2	54.7	56.0	57.5	57.5	49.4	55.2	59.6	6604	1180	8356	77.5	71.7	73.4
10/01	51.1	50.3 ^A	56.0	52.0	52.5	53.5	55.0	55.9	57.3	56.6	48.8	53.0	56.8	5199	1020	7024	85.0	72.4	77.1
10/02	50.6 ^X	50.2 ^A	55.9	52.3	52.8	53.7	55.1	55.9	57.3	56.6	48.8	53.2	56.9	5238	882	7006	80.5	71.4	76.3
10/03	50.4	49.8 ^A	55.9	52.4	52.9	53.7	55.2	56.1	57.5	56.4	48.8	53.5	57.2	5688	1108	7003	78.0	70.1	74.8
10/04	50.6	49.9 ^A	55.9	51.8	52.4	53.3	55.1	56.0	57.4 ^A	56.1	48.8	53.3	57.0	5350	1144	6996	75.5	68.8	71.5
10/05	50.6	49.8 ^A	55.8	51.9	52.4	53.1	54.6	55.5	57.0	55.9	48.8	52.6	56.1	5562	930	6943	77.5	69.3	73.8
10/06	51.0	50.2 ^A	55.8	52.0	52.5	53.3	54.8	55.7	56.9	56.2	48.8	52.6	55.9	4981	1107	6953	83.0	71.7	78.4
10/07	51.1 ^X	50.5 ^A	55.8	52.0	52.5	53.2	54.9	55.8	57.2	56.3	48.6	52.7	56.2	5565	1040	7030	81.5	71.8	77.8
10/08	51.2	50.3 ^A	55.7	52.1	52.6	53.3	54.8	55.6	56.9 ^A	56.1	48.6	52.3	55.9	5148	1058	6881	78.5	70.3	75.8
10/09	51.3	50.3 ^A	55.7	52.1	52.5	53.1	54.6	55.3	56.6	56.2	48.6	52.2	55.8	5600	1065	6915	73.5	67.8	70.7
10/10	51.2	50.3	55.6	52.2	52.5	53.1 ^A	54.5	55.2	56.2	56.0	48.5	52.6	55.9	5121	1157	7031	72.0	66.5	68.2
10/11	51.1	50.4	55.5	52.0	52.2	52.9	54.0	55.0	56.1	55.5	48.5	51.6	54.9	5302	1044	6867	70.0	63.8	67.6
10/12	51.3	50.3 ^A	55.5	52.1	52.4	53.0	54.0	54.8	55.7	55.5	48.4	52.4	55.2	5198	1173	6851	66.5	62.3	63.8
10/13	51.4	50.6 ^A	55.4	52.2	52.5	53.2	54.2	54.9	55.9	55.5	48.2	51.8	55.1	5268	1116	6903	69.0	63.5	66.4
10/14	51.5	50.7	55.4	52.1	52.5	53.1	54.2	55.2	56.2	55.5	48.1	51.5	54.9	5313	1060	6869	85.0	64.5	67.6
10/15	51.6	50.7	55.3	52.3	52.6	53.3	54.3	55.2	56.2	55.6	48.2	51.6	54.8	4899	1173	6892	68.5	64.6	67.1
10/16	51.4	50.6	55.3	52.4	52.8	53.4	54.7	55.7	56.7	55.9	48.4	53.0	56.0	4633	1045	6796	70.5	65.4	64.5
10/17	51.8	51.0 ^A	55.1	52.5	52.8	53.3	54.3	55.2	56.2	54.8	48.3	52.1	54.9	5800	942	6798	64.0	60.9	64.3
10/18	51.5	51.0 ^A	55.2	51.9	52.1	52.5	53.1	53.5	54.5	54.0	48.8	48.9	N/A ^B	5504	888	6799	66.5	61.2	63.0
10/19	51.6	51.2 ^A	55.2	52.1	52.4	53.0	53.6	53.7	54.2	55.0	48.2	49.4	N/A ^B	5331	1110	6789	76.0	66.1	68.9
10/20	51.8	51.2 ^A	55.1	52.0	52.2	52.7	53.7	54.3	55.0	54.8	47.7	50.8	N/A ^B	6240	903	6740	64.0	59.0	61.3
10/21	51.8	51.1 ^A	55.1	52.1	52.3	52.7	53.2	53.6	54.5	54.4	47.7	51.0	53.2 ^A	5355	1149	6797	62.0	56.3	59.2
10/22	51.8	51.2	54.8	52.3	52.4	52.8	53.1	53.3	54.0	54.3	47.6	50.4	52.7	5227	1150	6792	59.5	54.9	59.0

Date	MDW T TCD ¹	MDW T SHD	MDW T SPP ¹	MDW T KWK	MDW T SAC	MDW T CCR ²	MDW T BSF	MDW T BND	MDW T RBD	MDW T IGO	MDW T LWS	MDW T DGC ³	MDW T NFH	MDR Shasta Genera -tion	MDR Sprin g Creek PP	MDR Keswic k Total	MDA T RDD	MDA T BSF	MDA T RDB
Oct	51.3	50.5	55.5	52.1	52.5	53.2	54.3	55.1	56.2	55.6	48.4	51.9	55.6	5342	1057	6894	73.0	65.6	69
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Total CFS	117522	23264	151675	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Total AF	233100	46143	300841	N/A	N/A	N/A

Legend

A = 1-9 hours of data missing (Average includes estimations)
 B = 10 or more hours of data missing (Average not calculated)
 C = Station out of service
 D = Record high air temperature
 E = Record low air temperature
 MDWT = Mean Daily Water Temperature (Fahrenheit)
 MDR = Mean Daily Release (CFS)
 MDAT = Mean Daily Air Temperatures (Fahrenheit)

Notes

1 Temperatures are weighted averages based on individual penstock flow and temperature
 X Highlighted cells in the TCD column indicate a TCD change was made on that day
 2 Current Sacramento River control point (see page 4 for more details)
 3 Data is currently being collected locally and periodically downloaded. Once downloaded and certified by USGS, missing data will be added.

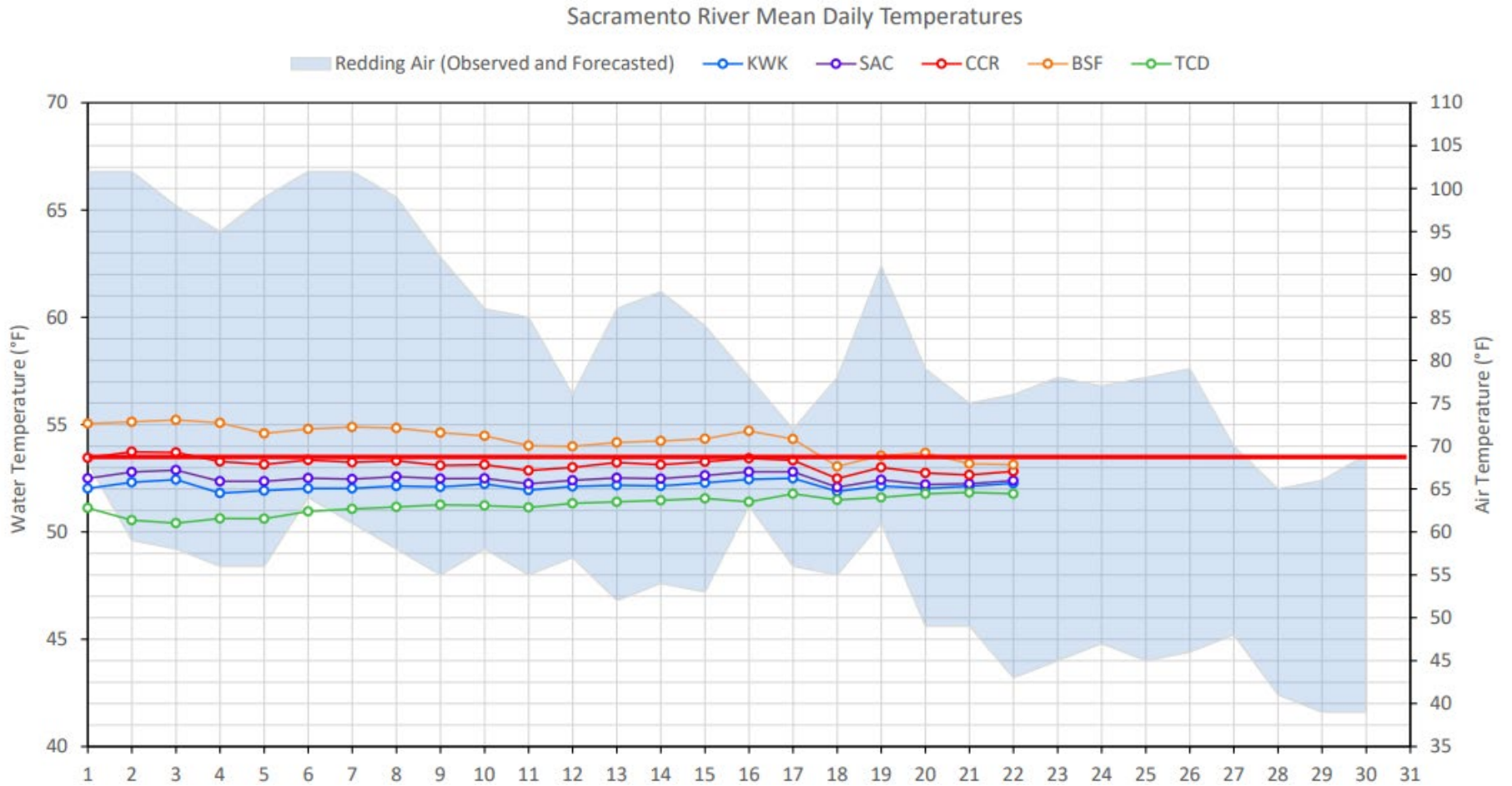


Figure 3: Sacramento River Mean Daily Temperatures

This figure shows mean Sacramento River daily temperatures in degrees Fahrenheit at Shasta Power Plant and various stations 0.8, 4.8, 9.7, 25, 34, 41, and 58 miles downstream of Keswick Dam for the past 21 days. It also includes a shaded area depicting observed and forecasted air temperatures in degrees Fahrenheit in Redding, California.

Station Details

Code	Body of Water	Location ¹
TCD	N/A	Shasta Power Plant
SHD	Sacramento River	0.3 miles downstream of Shasta Power Plant
SPP	N/A	Spring Creek Power Plant
KWK	Sacramento River	0.8 miles downstream of Keswick Dam
SAC	Sacramento River	4.8 miles downstream of Keswick Dam
CCR	Sacramento River	9.7 miles downstream of Keswick Dam
BSF	Sacramento River	25 miles downstream of Keswick Dam
JLF	Sacramento River	34 miles downstream of Keswick Dam
BND	Sacramento River	41 miles downstream of Keswick Dam
RDB	Sacramento River	58 miles downstream of Keswick Dam
IGO	Clear Creek	7.3 miles downstream of Whiskeytown Dam

Water Right Temperature Control Points

River	Point	Temp (°F)	Begin Date	End Date
Sacramento	CCR	53.5	5/24/2024	TBD

Notes: ¹ Distances are approximate

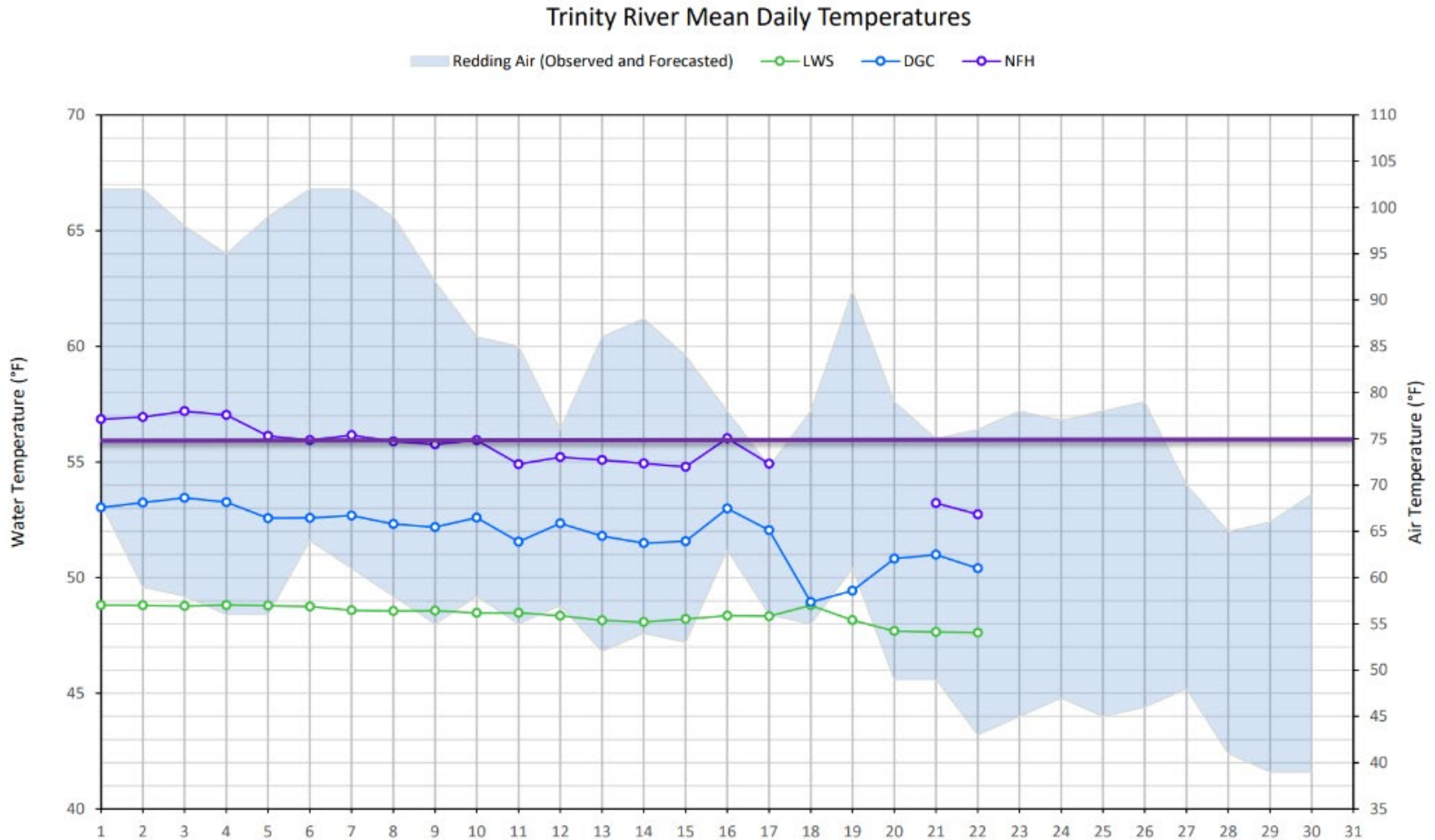


Figure 4: Trinity River Mean Daily Temperatures

This figure shows mean Trinity River daily temperatures in degrees Fahrenheit at Shasta Power Plant and various stations 0.8, 4.8, 9.7, 25, 34, 41, and 58 miles downstream of Keswick Dam for the past 21 days. It also includes a shaded area depicting observed and forecasted air temperatures in degrees Fahrenheit in Redding, California.

Station Details

Code	Body of Water	Location ¹
LWS	Trinity River	1.1 miles downstream of Lewiston Dam
DGC	Trinity River	19 miles downstream of Lewiston Dam
NFH	Trinity River	38 miles downstream of Lewiston Dam

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

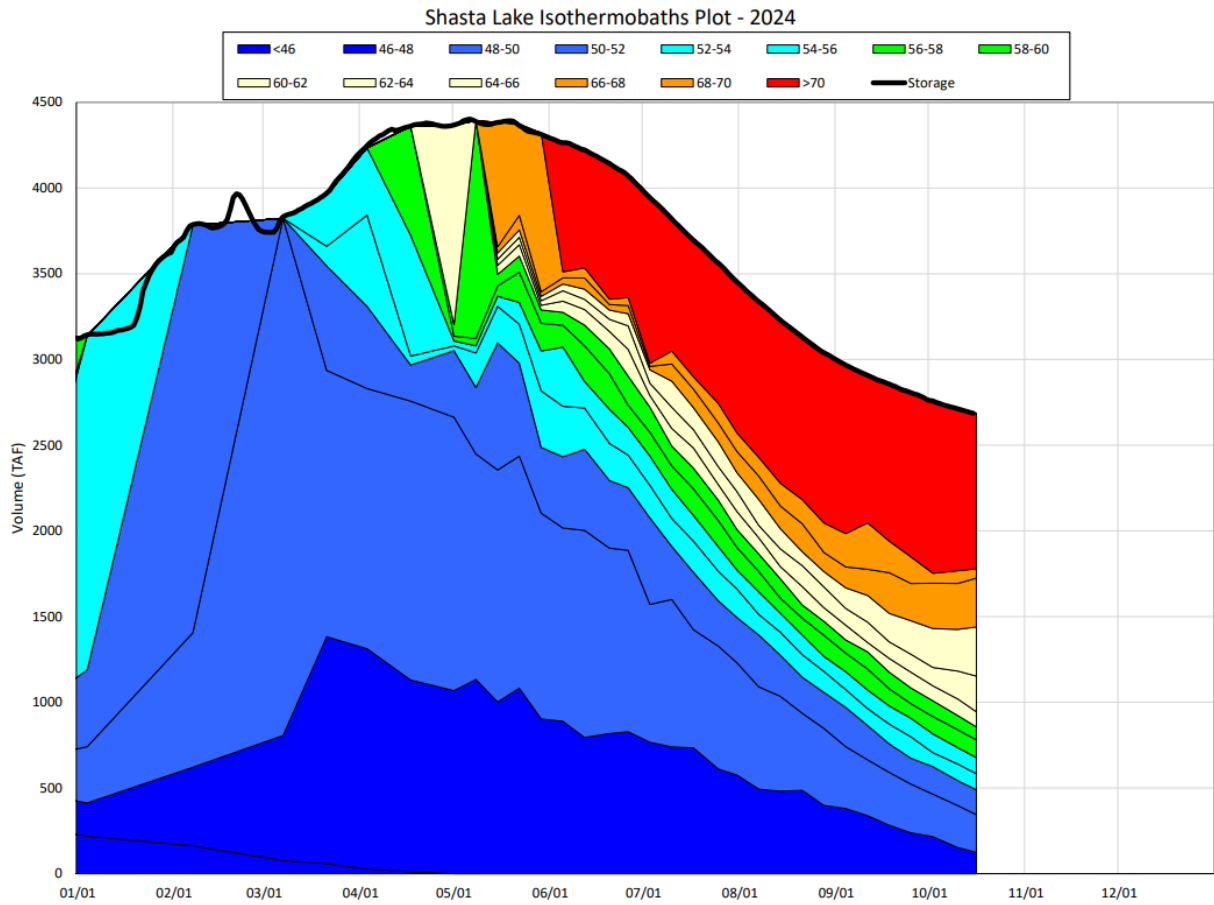


Figure 5: Shasta Lake Isothermobaths Plot - 2024

This figure is a chart showing Shasta Lake Isothermobaths with volume in Thousand Acre-Feet from 0-4500; with dates 1/01-12/01.

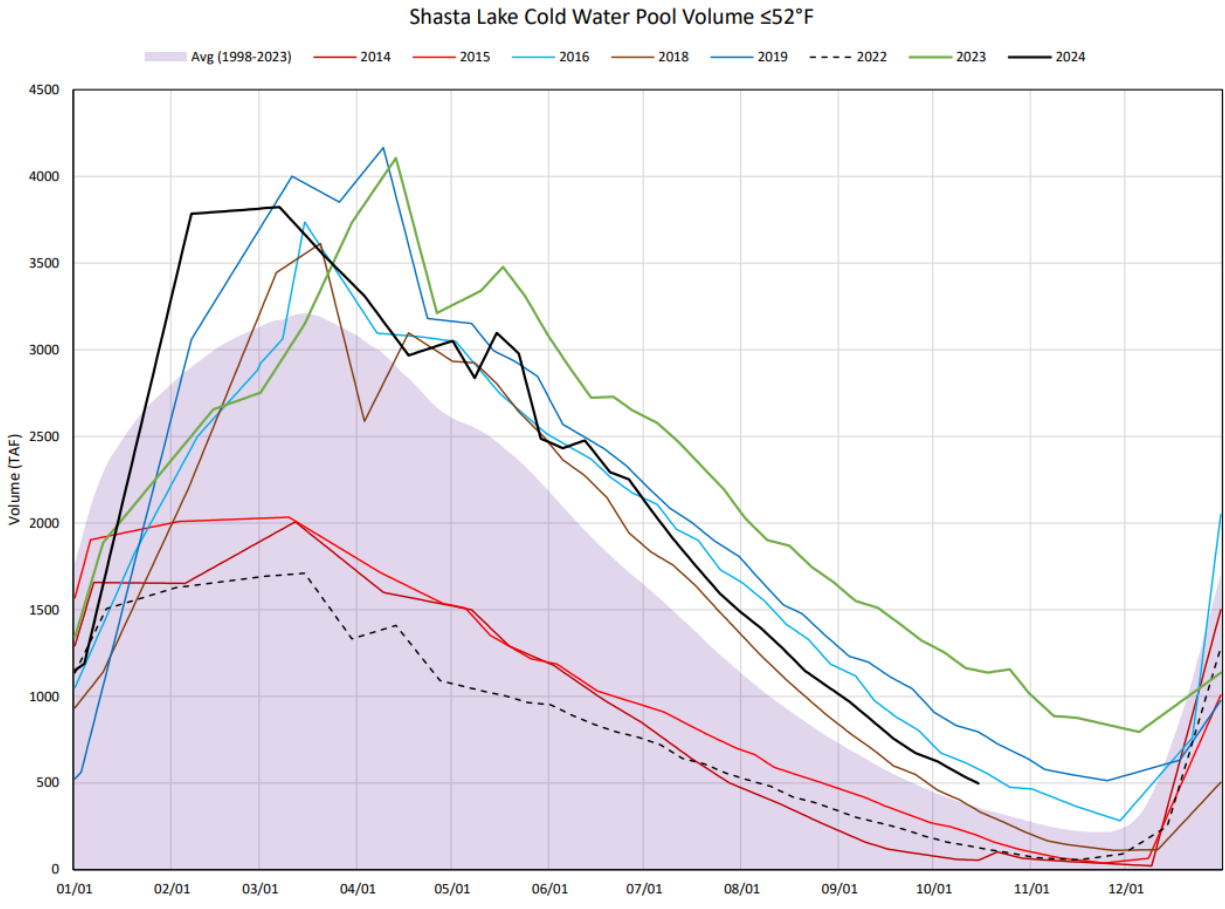


Figure 6: Shasta Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$

This figure is a line graph showing Shasta Lake Cold Water Pool Volume equal to or less than 52 degrees Fahrenheit from 01/01 to 12/01.

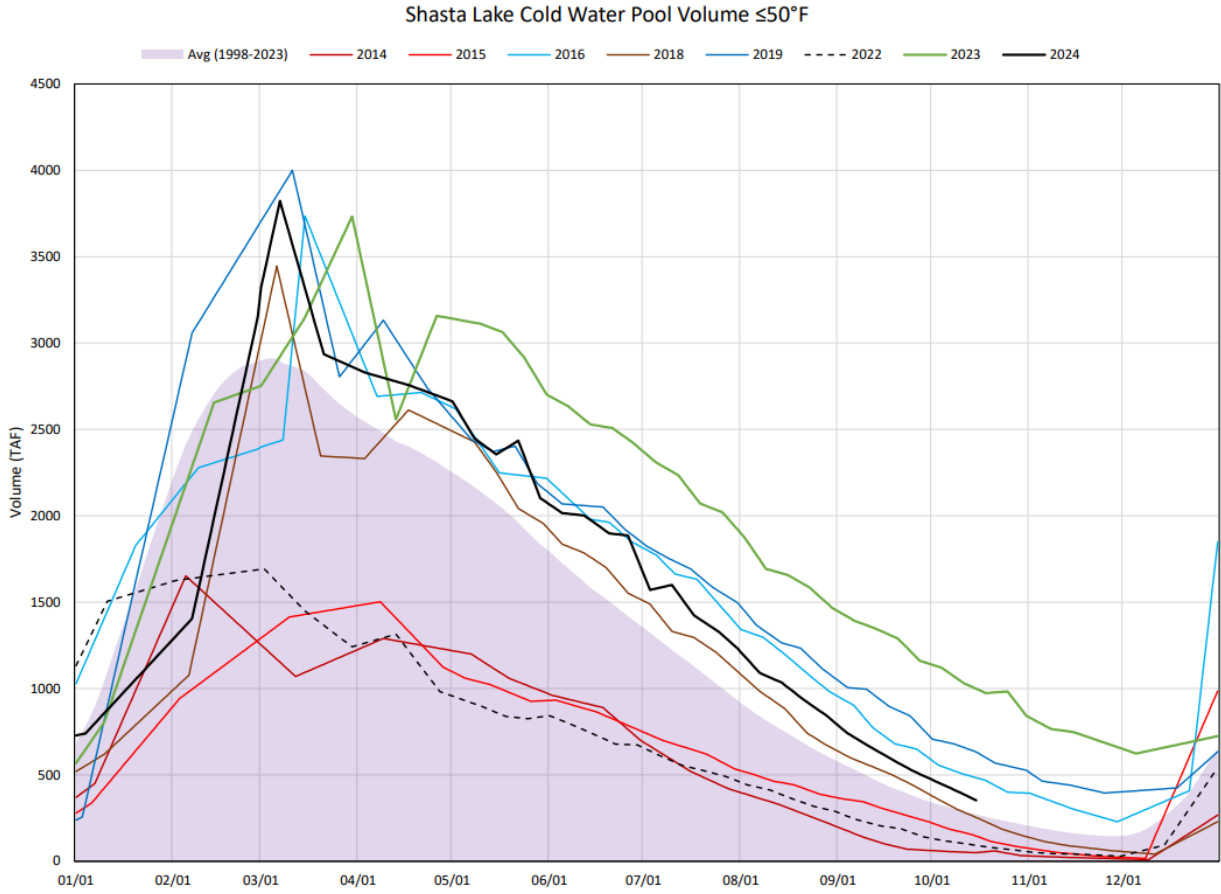


Figure 7: Shasta Lake Cold Water Pool Volume ≤50°F

This figure is a line graph showing Shasta Lake Cold Water Pool Volume equal to or less than 50 degrees Fahrenheit from 01/01 to 12/01.

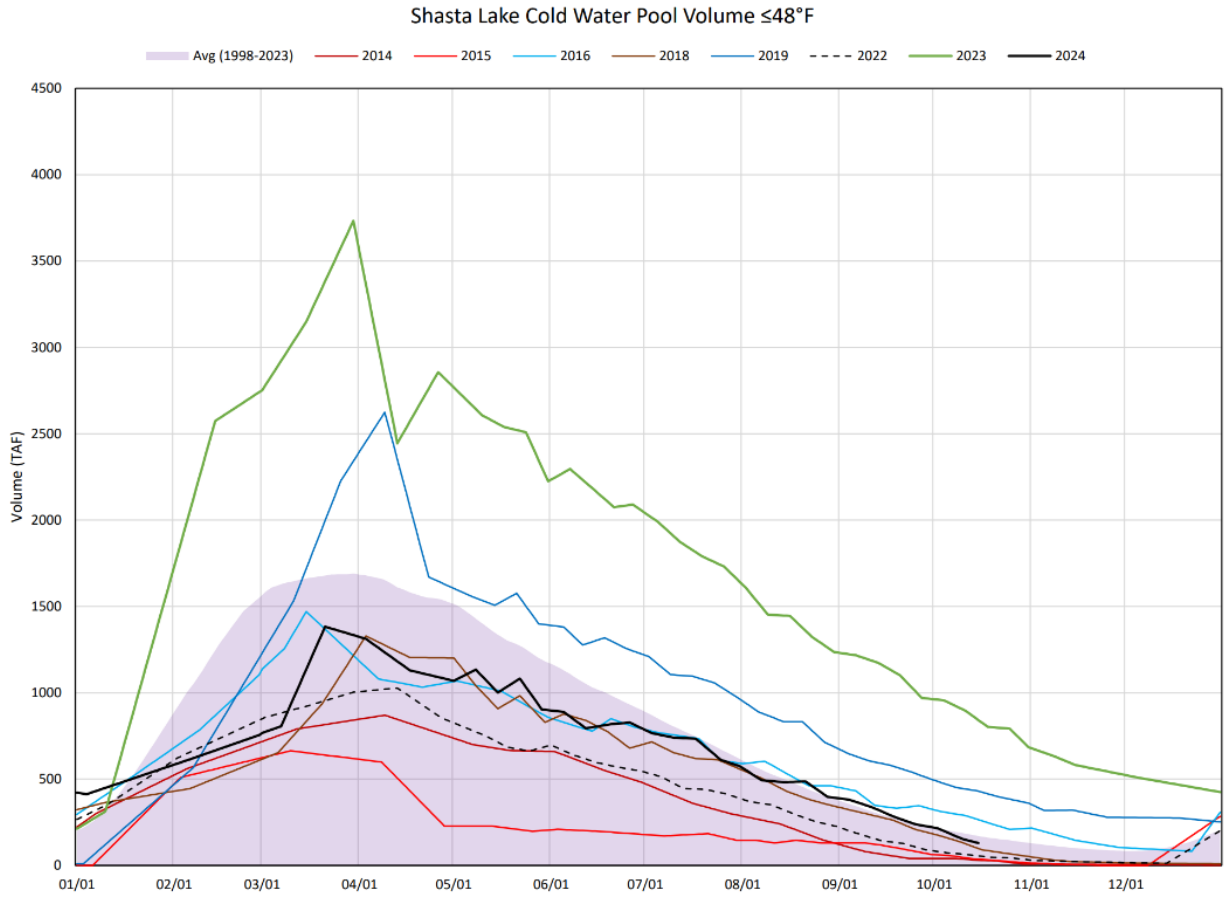


Figure 8: Shasta Lake Cold Water Pool Volume ≤48°F

This figure is a line graph showing Shasta Lake Cold Water Pool Volume equal to or less than 48 degrees Fahrenheit from 01/01 to 12/01.

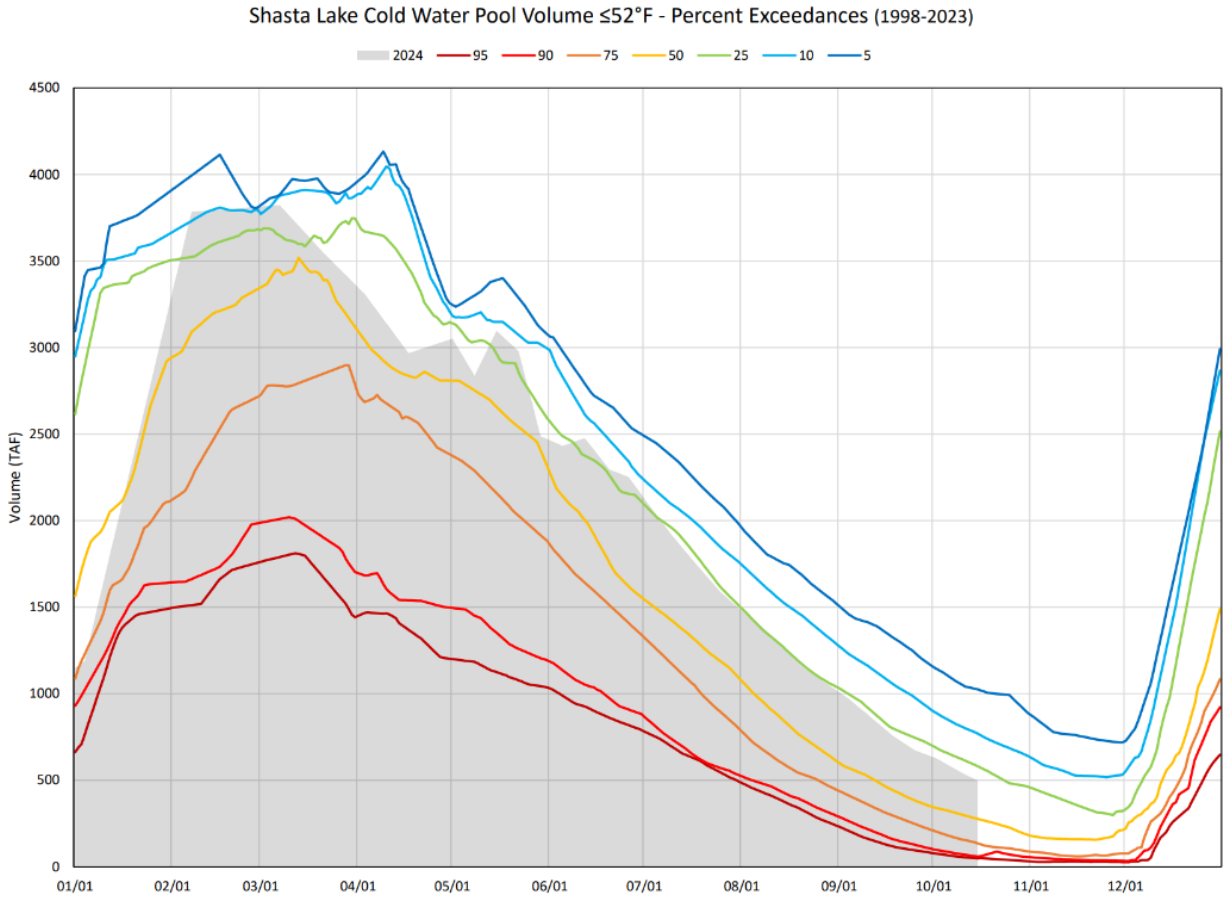


Figure 9: Shasta Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances (1998-2023)

This figure is a line graph showing Shasta Lake Cold Water Pool Volume less than or equal to 52 degrees Fahrenheit as percent exceedances from 01/01 to 12/01.

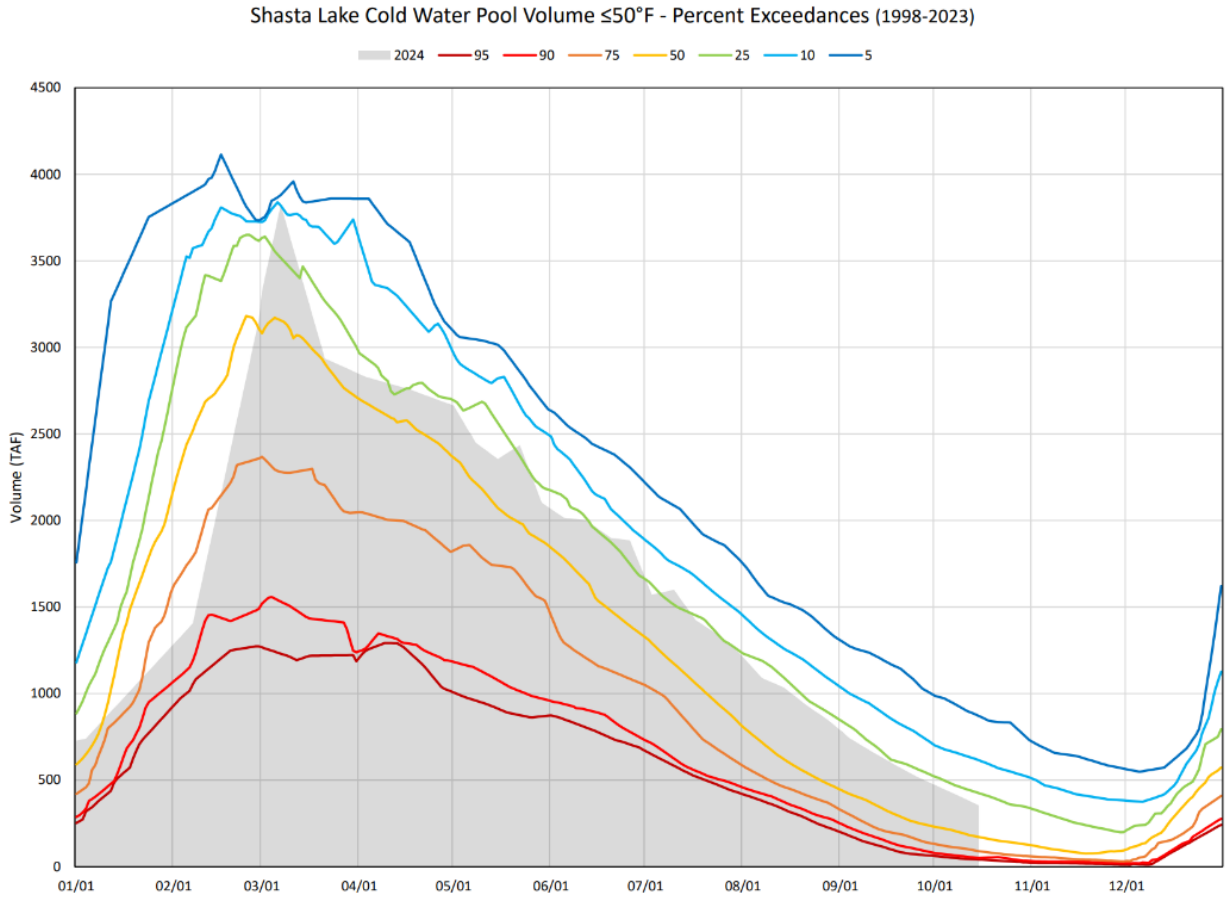


Figure 10: Shasta Lake Cold Water Pool Volume ≤50°F - Percent Exceedances (1998-2023)

This figure is a line graph showing Shasta Lake Cold Water Pool Volume less than or equal to 50 degrees Fahrenheit as percent exceedances from 01/01 to 12/01.

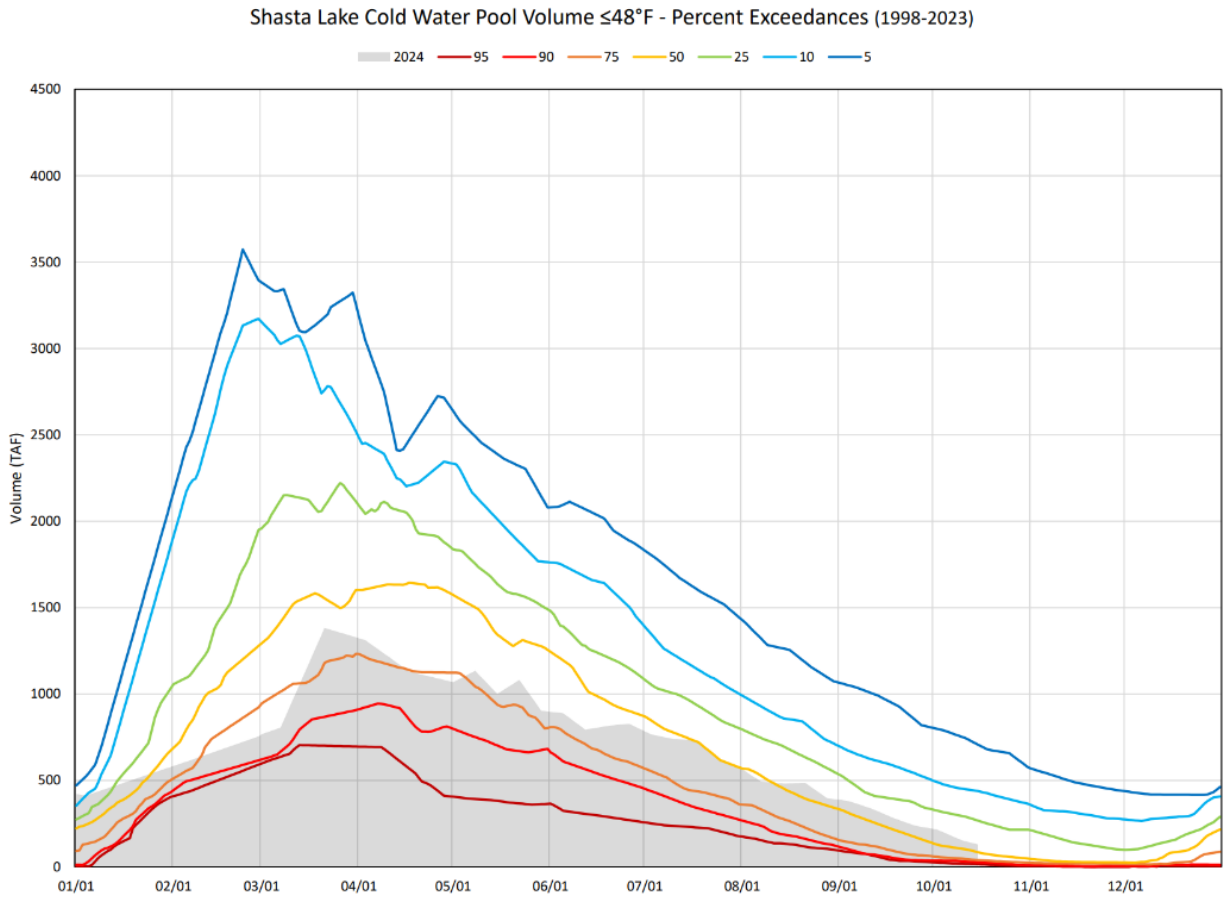


Figure 11: Shasta Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$ - Percent Exceedances (1998-2023)

This figure is a line graph showing Shasta Lake Cold Water Pool Volume less than or equal to 48 degrees Fahrenheit as percent exceedances from 01/01 to 12/01.

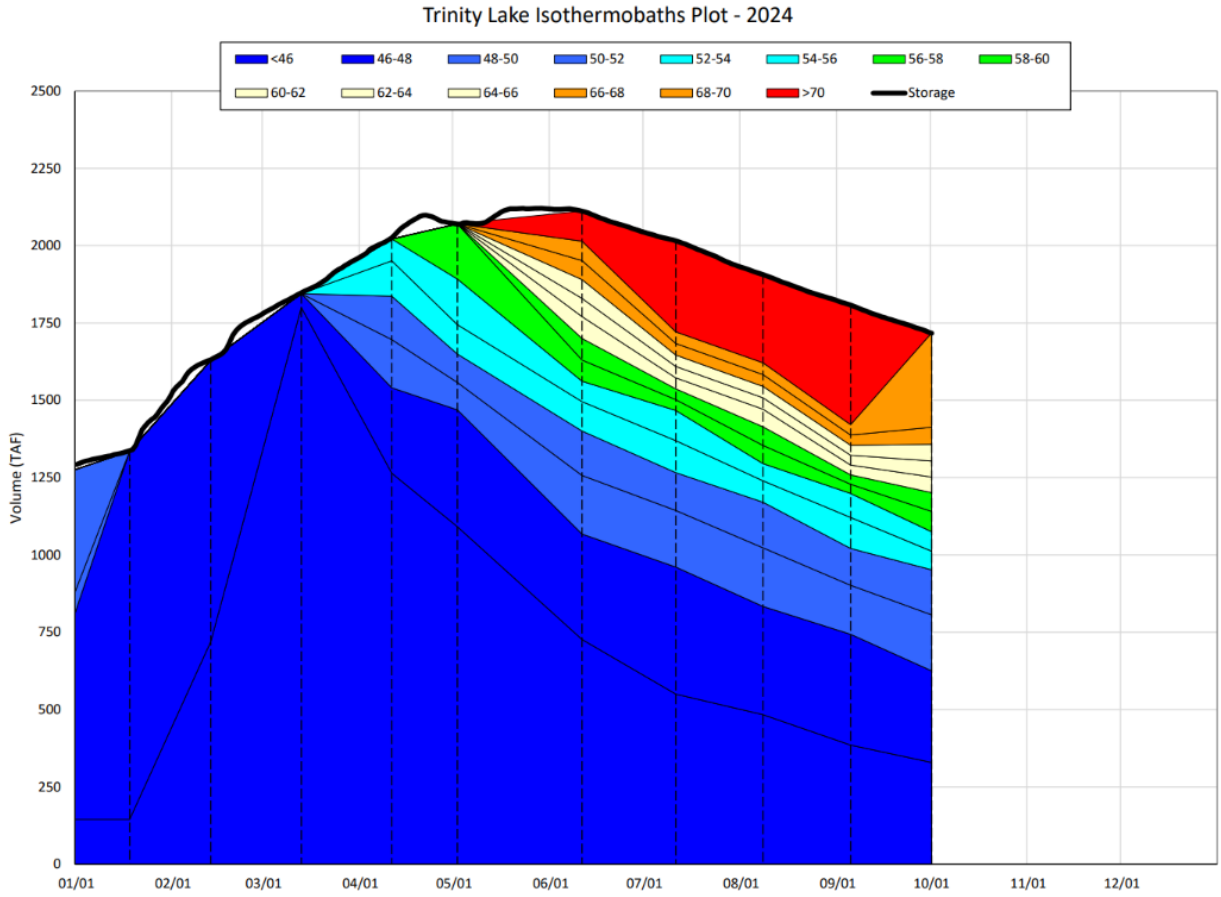


Figure 12: Trinity Lake Isothermobaths Plot - 2024

This figure is a chart showing Trinity Lake Isothermobaths with volume in Thousand Acre-Feet from 0-2500; with dates 1/01-12/01.

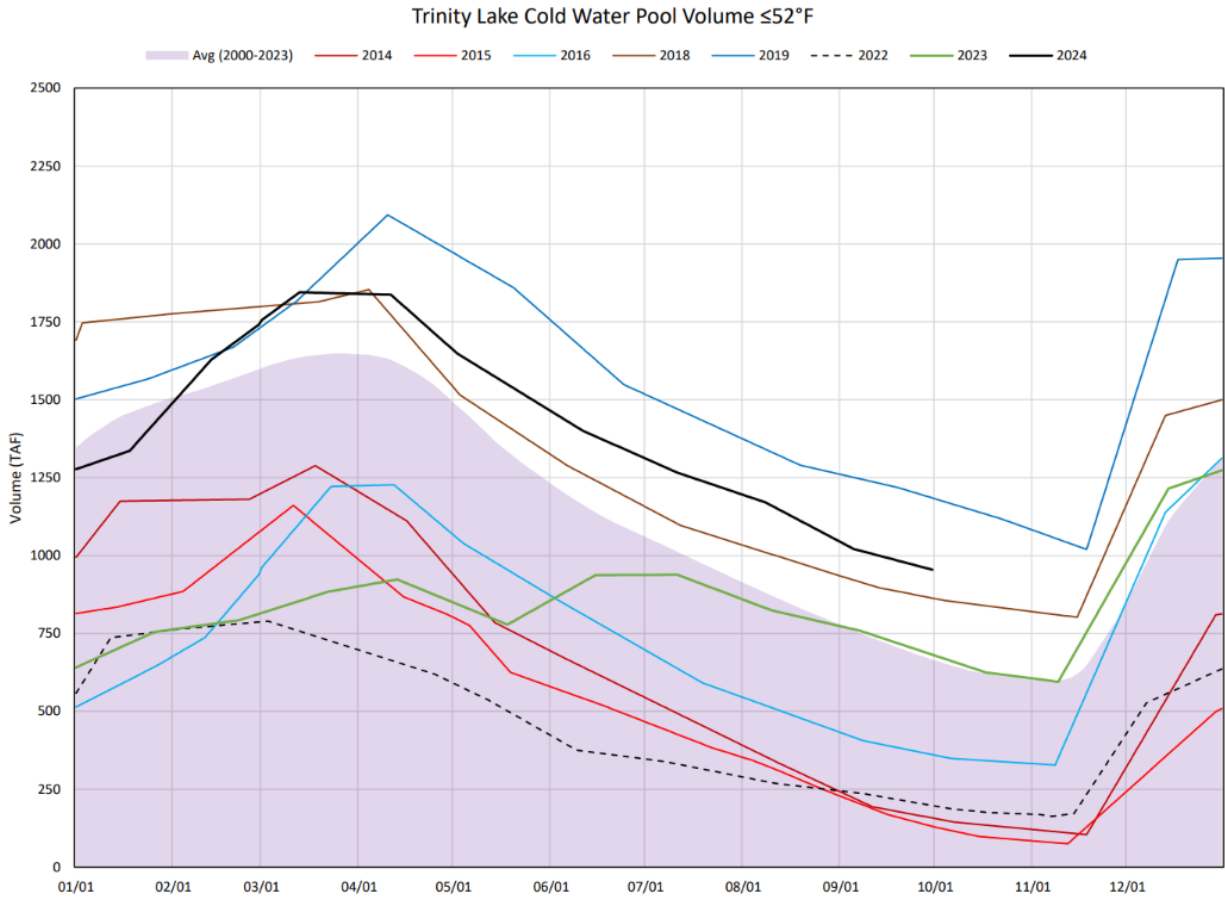


Figure 13: Trinity Lake Cold Water Pool Volume ≤52°F

This figure is a line graph showing Trinity Lake Cold Water Pool Volume less than or equal to 52 degrees Fahrenheit from 01/01 to 12/01.

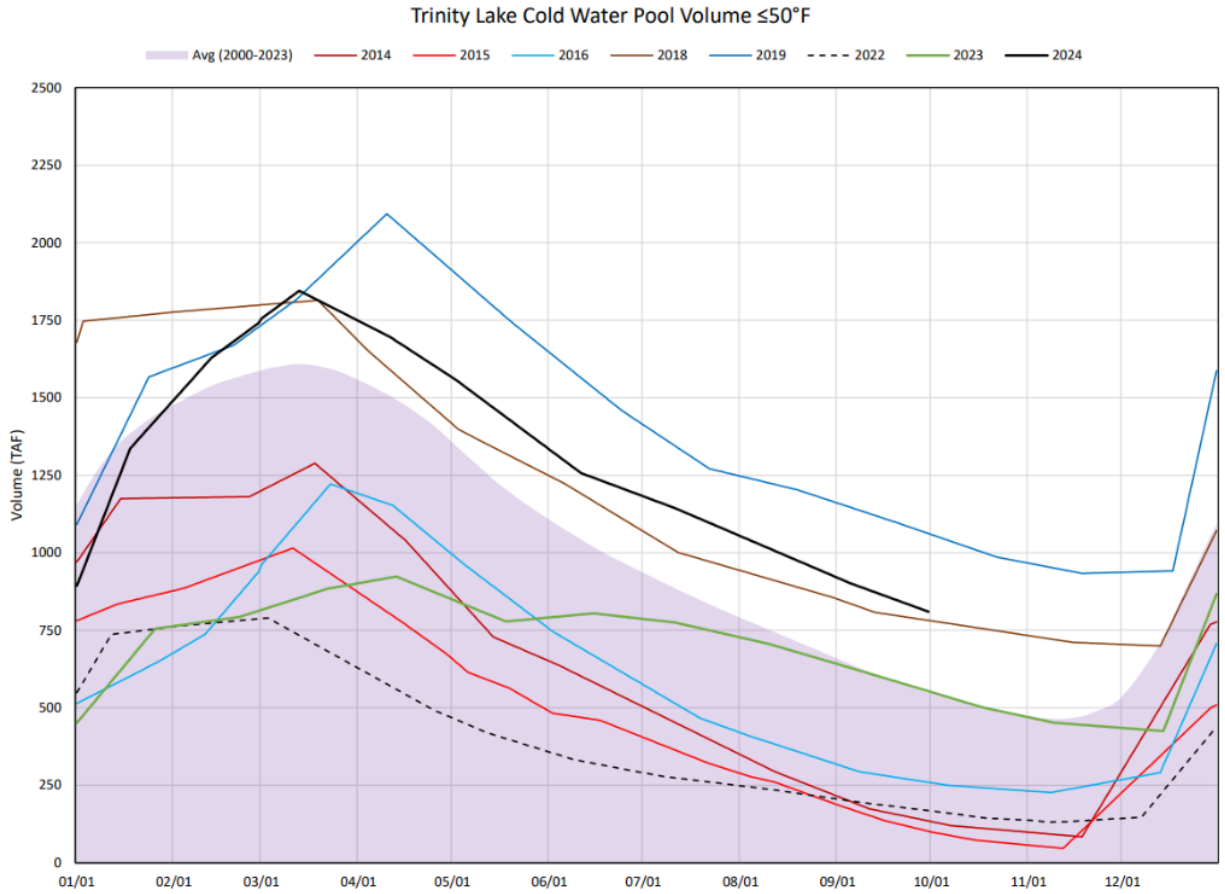


Figure 14: Trinity Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$

This figure is a line graph showing Trinity Lake Cold Water Pool Volume less than or equal to 50 degrees Fahrenheit from 01/01 to 12/01.

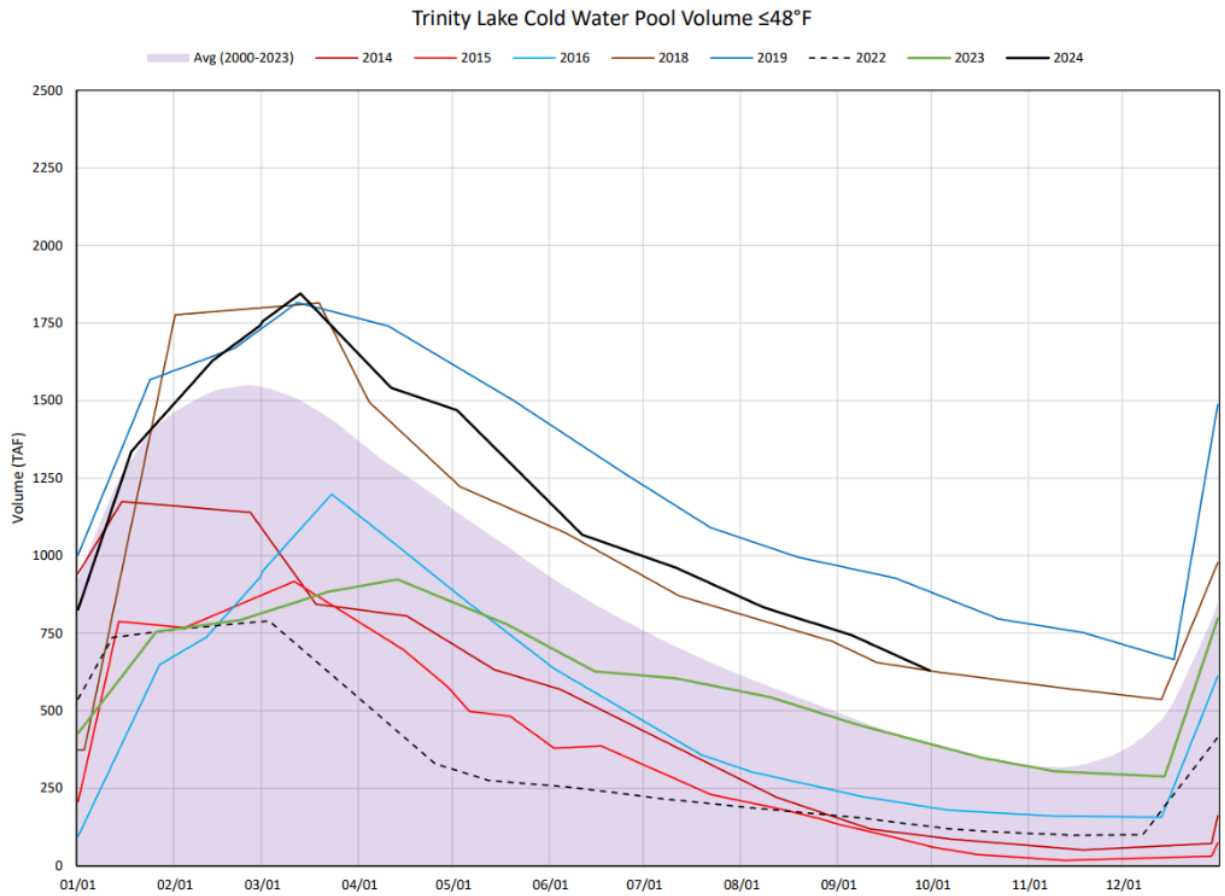


Figure 15: Trinity Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$

This figure is a line graph showing Trinity Lake Cold Water Pool Volume less than or equal to 48 degrees Fahrenheit from 01/01 to 12/01.

Trinity Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances (2000-2023)

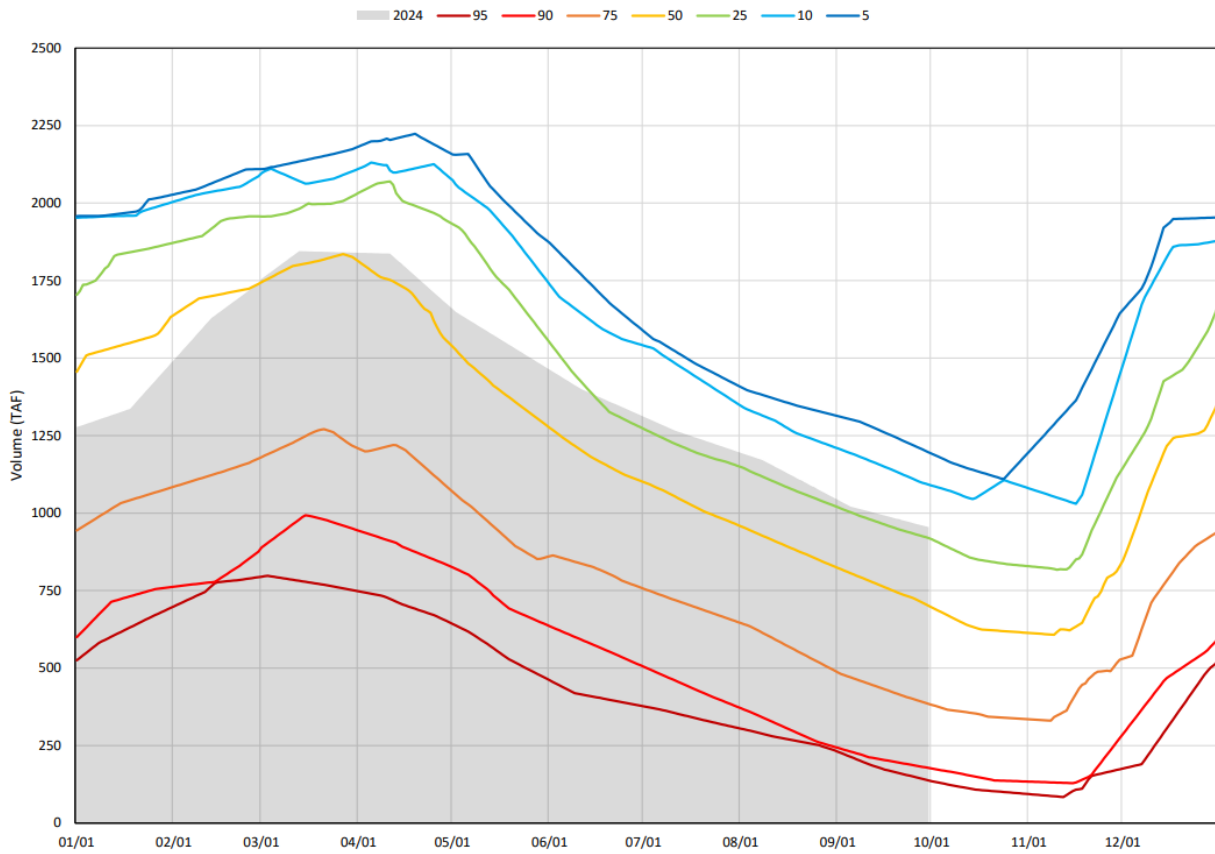


Figure 16: Trinity Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$

This figure is a line graph showing Trinity Lake Cold Water Pool Volume less than or equal to 52 degrees Fahrenheit as percent exceedances from 01/01 to 12/01.

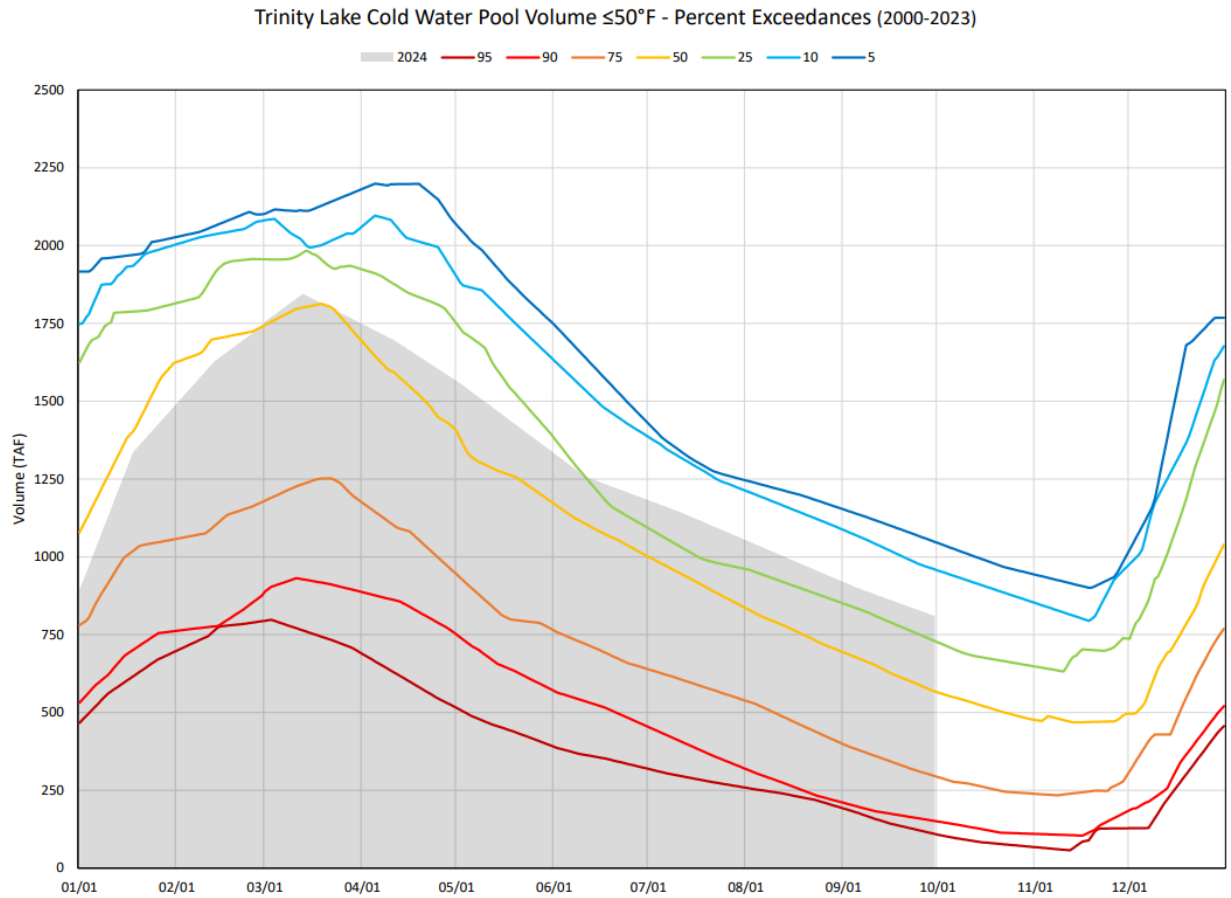


Figure 17: Trinity Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$

This figure is a line graph showing Trinity Lake Cold Water Pool Volume less than or equal to 50 degrees Fahrenheit as percent exceedances from 01/01 to 12/01.

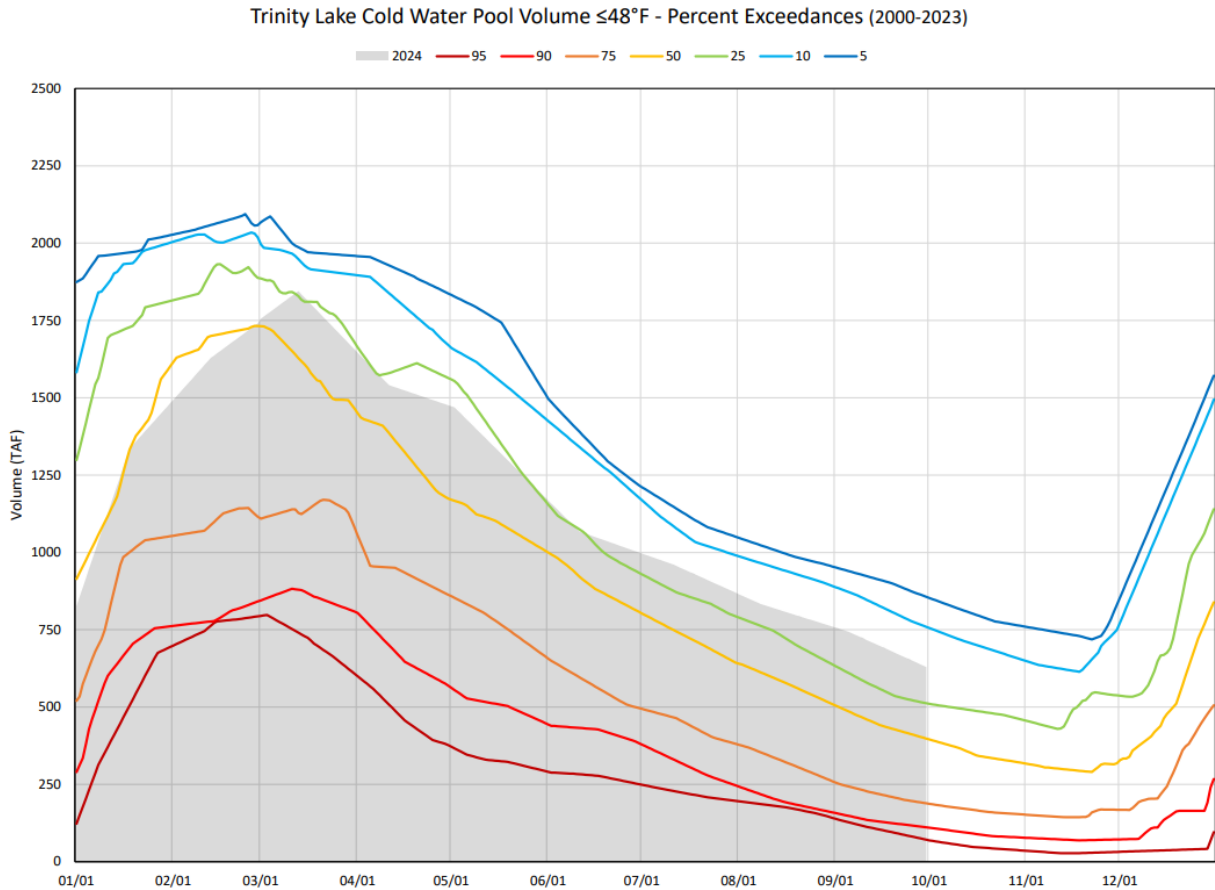


Figure 18: Trinity Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$

This figure is a line graph showing Trinity Lake Cold Water Pool Volume less than or equal to 48 degrees Fahrenheit as percent exceedances from 01/01 to 12/01.

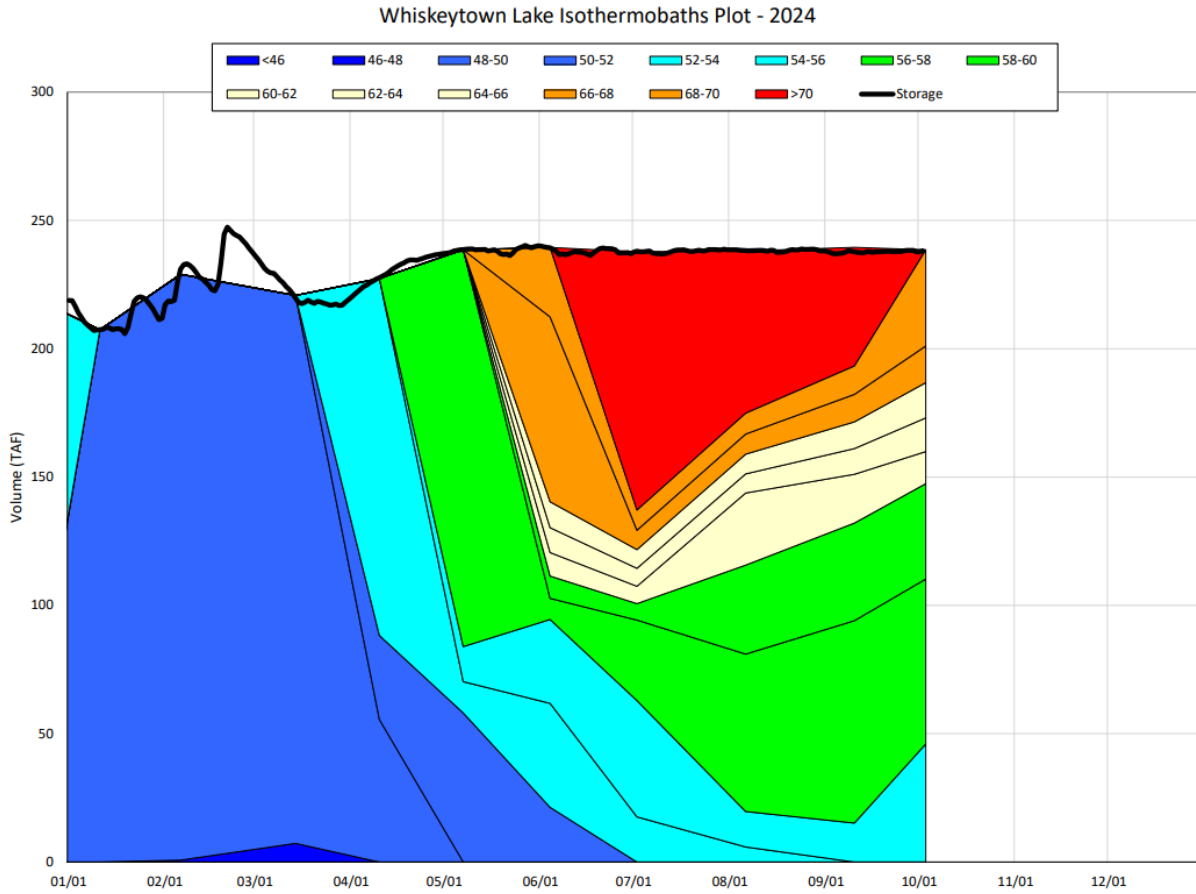


Figure 19: Whiskeytown Lake Isothermobaths Plot - 2024

This figure is a chart showing Whiskeytown Lake Isothermobaths with volume in Thousand Acre-Feet from 0-300; with dates 1/01-12/01.

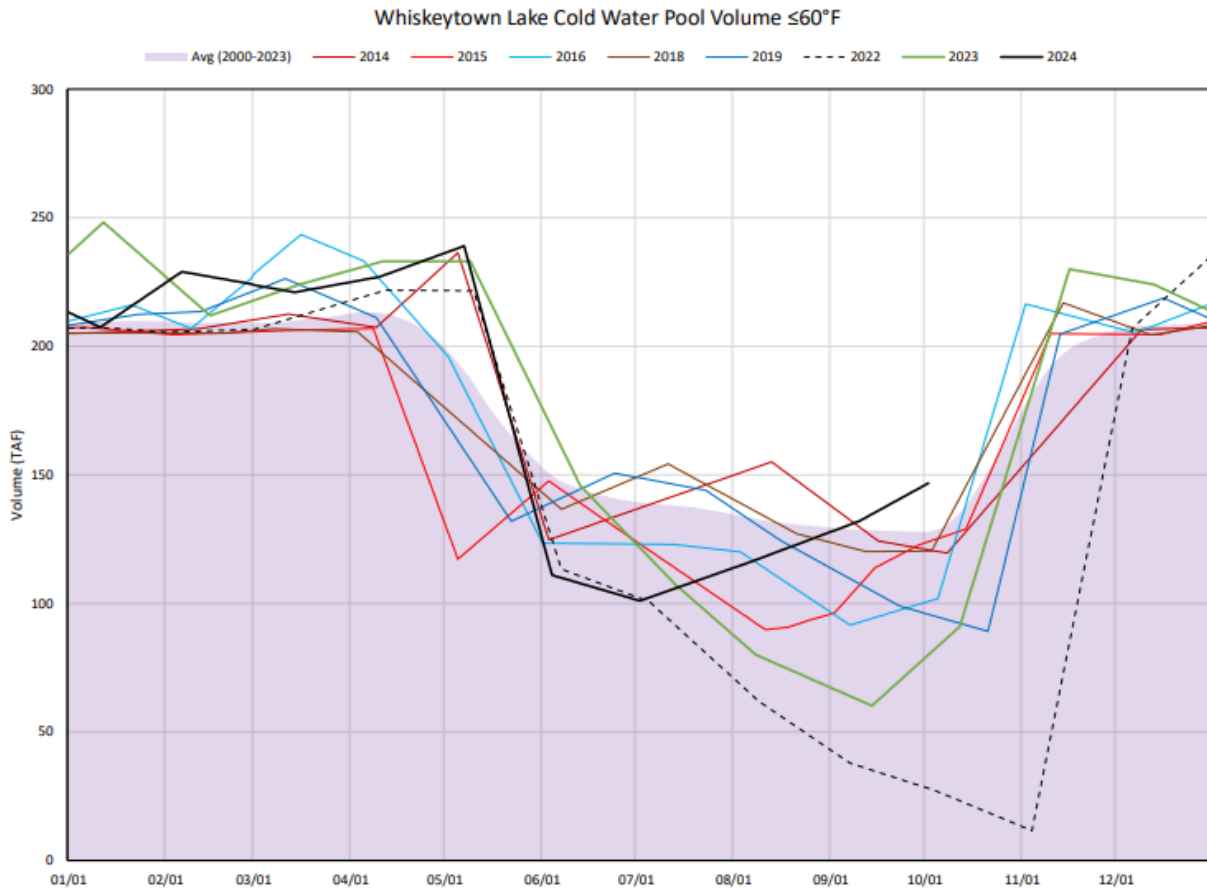


Figure 20: Whiskeytown Lake Cold Water Pool Volume $\leq 60^{\circ}\text{F}$

This figure is a line graph showing Whiskeytown Lake Cold Water Pool Volume less than or equal to 60 degrees Fahrenheit from 01/01 to 12/01.

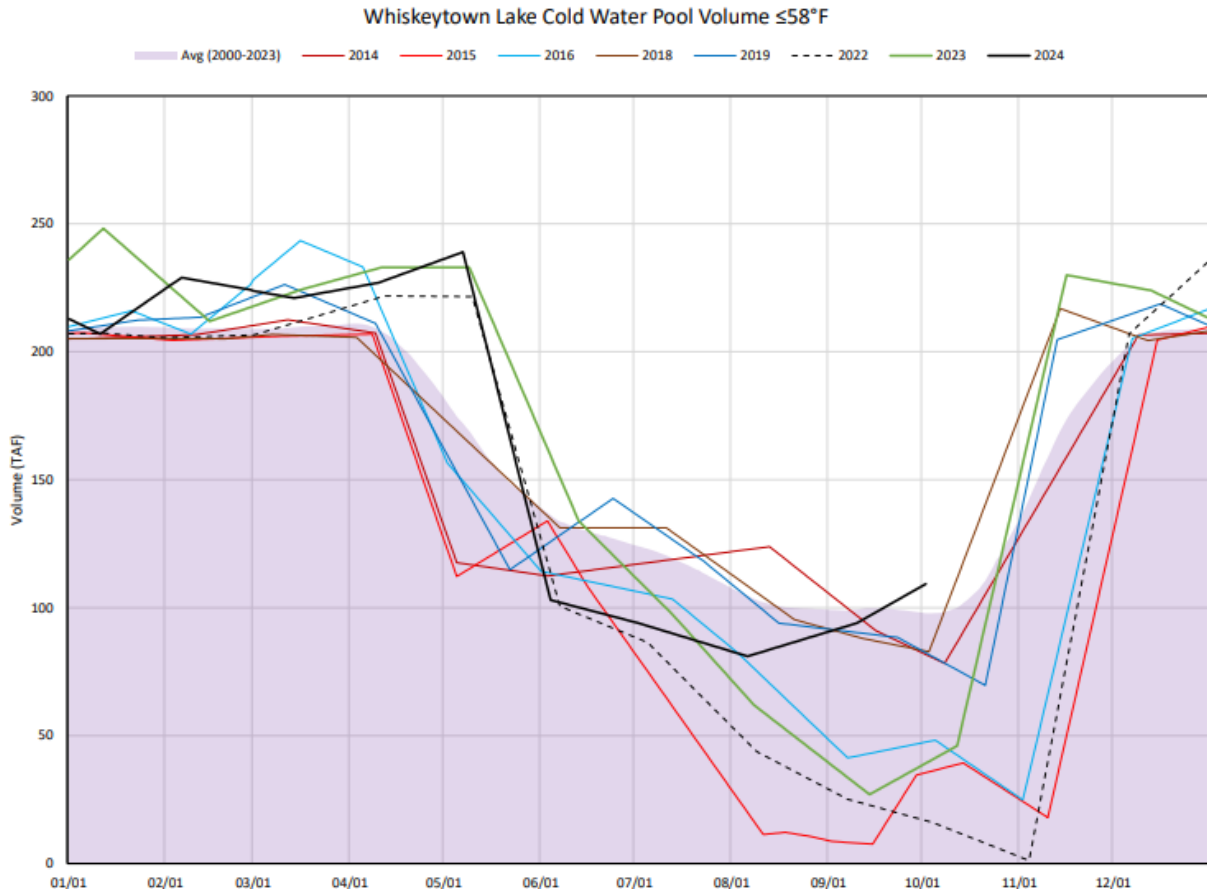


Figure 21: Whiskeytown Lake Cold Water Pool Volume $\leq 58^{\circ}\text{F}$

This figure is a line graph showing Whiskeytown Lake Cold Water Pool Volume less than or equal to 58 degrees Fahrenheit from 01/01 to 12/01.

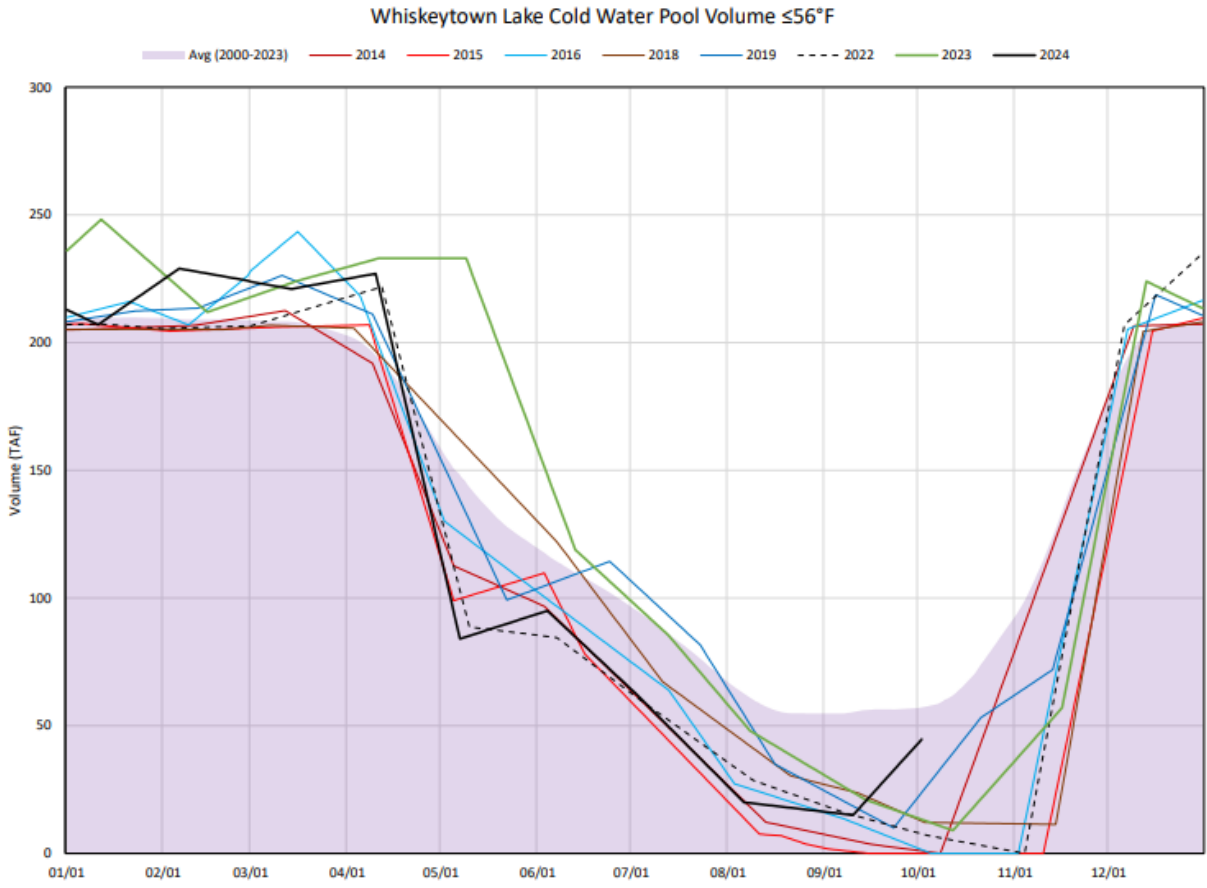


Figure 22: Whiskeytown Lake Cold Water Pool Volume $\leq 56^{\circ}\text{F}$

This figure is a line graph showing Whiskeytown Lake Cold Water Pool Volume less than or equal to 56 degrees Fahrenheit from 01/01 to 12/01.

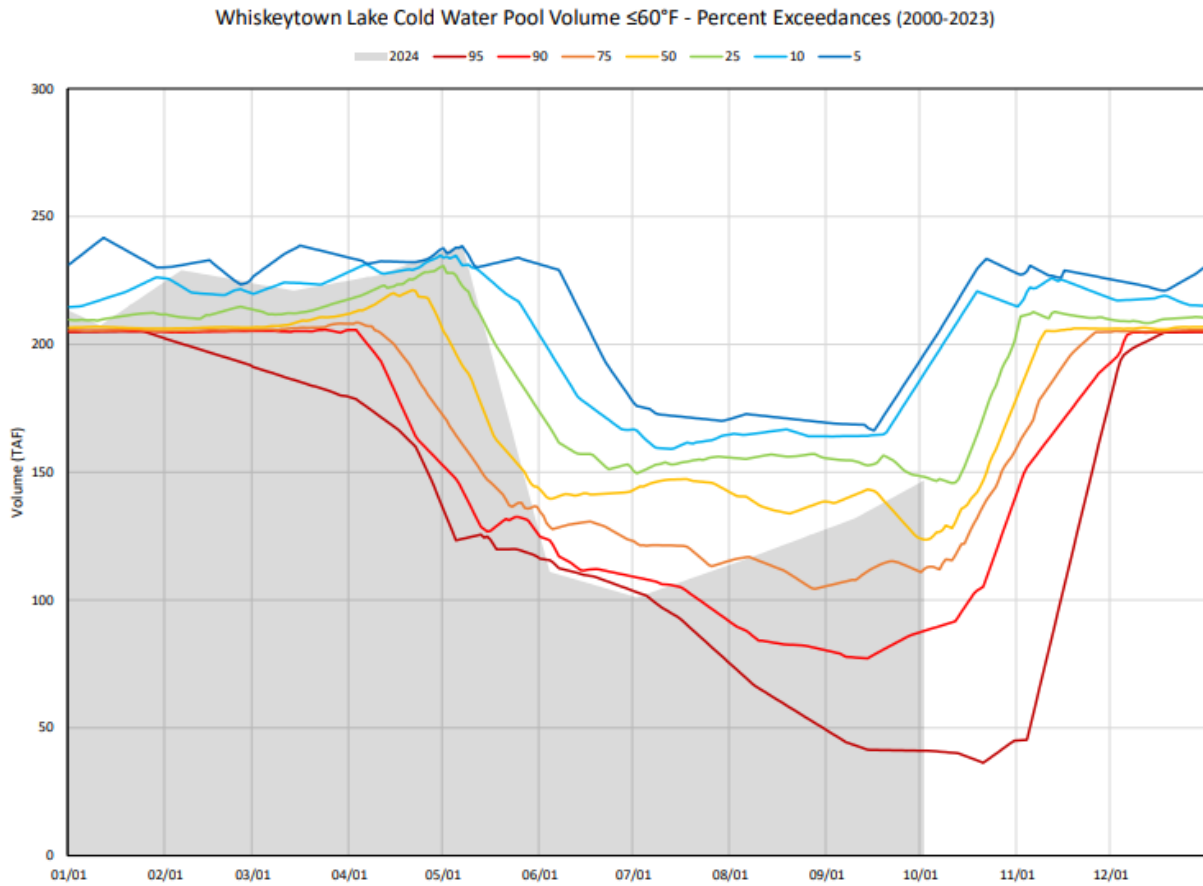


Figure 23: Whiskeytown Lake Cold Water Pool Volume $\leq 60^{\circ}\text{F}$ – Percent Exceedances (2000-2023)

This figure is a line graph showing Whiskeytown Lake Cold Water Pool Volume less than or equal to 60 degrees Fahrenheit as percent exceedances from 01/01 to 12/01.

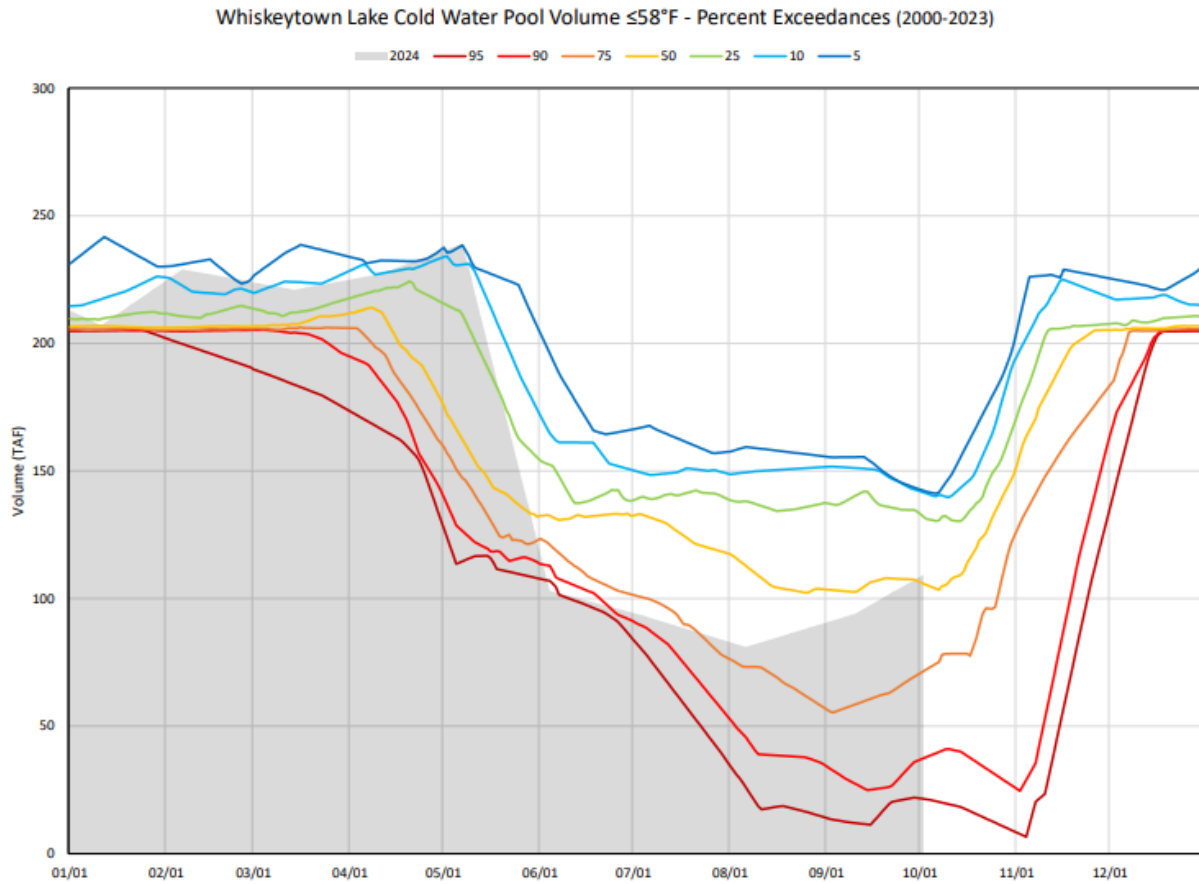


Figure 24: Whiskeytown Lake Cold Water Pool Volume $\leq 58^{\circ}\text{F}$ – Percent Exceedances (2000-2023)

This figure is a line graph showing Whiskeytown Lake Cold Water Pool Volume less than or equal to 58 degrees Fahrenheit as percent exceedances from 01/01 to 12/01.

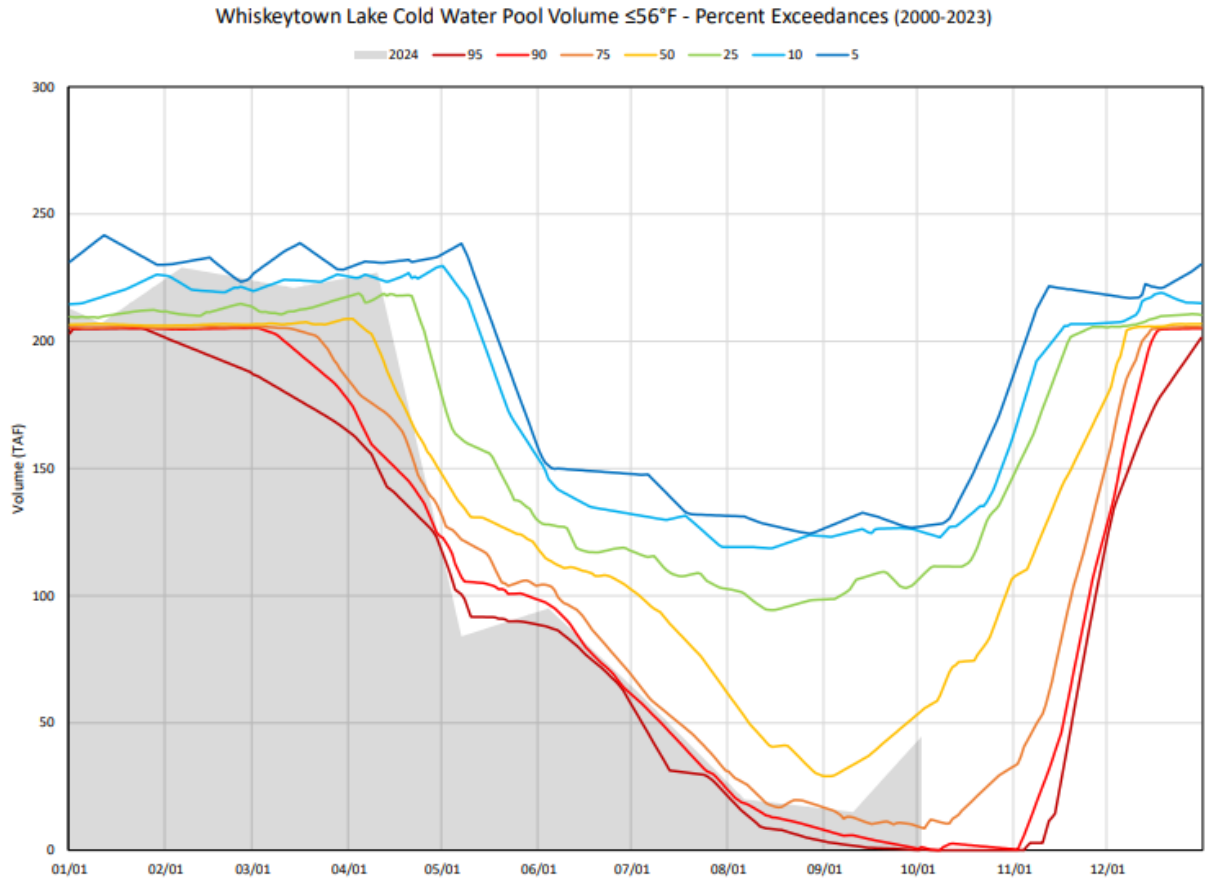


Figure 25: Whiskeytown Lake Cold Water Pool Volume $\leq 56^{\circ}\text{F}$ – Percent Exceedances (2000-2023)

This figure is a line graph showing Whiskeytown Lake Cold Water Pool Volume less than or equal to 56 degrees Fahrenheit as percent exceedances from 01/01 to 12/01.

Estimated CVP Operations 50% Exceedance

Table 5: Storages – Federal End of the Month Storage/Elevation (TAF/Feet)

Facility	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Trinity	1720	1637	1649	1688	1753	1865	1994	2119	2028	1945	1806	1665
Trinity Elev.	N/A	2314	2315	2318	2323	2331	2341	2349	2343	2337	2327	2316
Whiskeytown	238	238	233	220	206	206	206	206	238	238	238	238
Whiskeytown Elev.	N/A	1209	1207	1203	1199	1199	1199	1199	1209	1209	1209	1209
Shasta	2766	2638	2668	2816	3192	3619	4009	4273	4288	4046	3597	3285
Shasta Elev.	N/A	991	992	999	1016	1033	1048	1057	1058	1049	1032	1020
Folsom	460	448	422	412	457	564	753	899	963	930	735	631
Folsom Elev.	N/A	410	406	405	411	424	445	459	465	462	443	432
New Melones	1823	1762	1774	1792	1826	1883	1963	1934	1999	2018	1941	1880
New Melones Elev.	N/A	1030	1031	1033	1036	1041	1049	1046	1052	1054	1047	1041
San Luis	371	461	606	793	926	965	965	865	652	440	215	100
San Luis Elev.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	7378	7185	7351	7720	8360	9102	9889	10295	10167	9616	8532	7799

Table 6: State End of the Month Reservoir Storage (TAF)

Facility	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Oroville	1888	1751	1708	1775	1945	2296	2636	3057	3239	3151	2690	2234
Oroville Elev.	N/A	758	754	760	777	809	837	868	881	875	841	804
State San Luis	640	674	803	922	1032	1061	1061	988	831	624	665	842
State San Luis Elev.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total San Luis (TAF)	1011	1135	1409	1715	1958	2025	2025	1853	1483	1063	880	942
Total San Luis Elev.	N/A	466	491	518	538	543	543	529	498	459	440	447

Table 7: Monthly River Releases (TAF/cfs)

Facility	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Trinity (TAF)	N/A	23	18	18	18	17	18	80	258	126	68	53
Trinity (cfs)	N/A	373	300	300	300	300	300	1,347	4,189	2,120	1,102	857
Clear Creek (TAF)	N/A	12	12	12	12	11	22	12	18	14	9	9
Clear Creek (cfs)	N/A	200	200	200	200	200	363	200	291	242	150	150
Sacramento (TAF)	N/A	421	268	246	246	333	430	357	461	535	738	584
Sacramento (cfs)	N/A	6850	4500	4000	4000	6000	7000	6000	7500	9000	12000	9500
American (TAF)	N/A	93	119	123	108	155	123	280	400	178	313	203

Facility	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
American (cfs)	N/A	1506	2007	2000	1750	2800	2000	4700	6500	3000	5096	3309
Stanislaus (TAF)	N/A	48	12	12	14	13	12	91	76	22	15	15
Stanislaus (cfs)	N/A	774	200	200	226	229	200	1537	1242	363	250	250
Feather (TAF)	N/A	215	104	108	108	97	108	104	108	178	430	430
Feather (cfs)	N/A	3500	1750	1750	1750	1750	1750	1750	1750	3000	7000	7000

Table 8: Trinity Diversions (TAF)

Diversion Facility	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Carr PP	N/A	70	0	0	0	0	0	0	46	69	89	90
Spring Creek PP	N/A	60	0	16	36	33	15	12	10	60	80	80

Table 9: Delta Summary (TAF)

Facility	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Tracy	N/A	237	238	250	194	136	114	57	58	175	258	260
USBR Banks	N/A	22	22	22	0	0	0	0	0	0	0	0
Contra Costa	N/A	14.0	16.0	18.0	14.0	14.0	12.7	12.7	12.7	9.8	11.1	12.7
Total USBR	N/A	273	276	290	208	150	127	69	71	185	269	273
State Export	N/A	193	268	205	217	130	87	33	35	46	343	395
Total Export	N/A	466	544	495	425	280	214	102	106	231	612	668
COA Balance	N/A	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Vernalis (TAF)	N/A	126	99	103	119	237	249	255	352	96	80	71
Vernalis (cfs)	N/A	2043	1662	1680	1934	4263	4055	4278	5718	1607	1307	1161
Old/Middle River calc.	N/A	-5,508	-6,883	-6,034	-5,043	-2,555	-1,442	15	656	-2,854	-7,669	-8,431
Computed DOI	N/A	4002	4505	9777	15877	27664	29102	21079	18772	7884	8004	4002
Excess Outflow	N/A	0	0	5271	9874	16263	17699	9682	11273	0	0	0
% Export/Inflow	N/A	54%	61%	43%	31%	15%	10%	6%	7%	25%	44%	56%
% Export/inflow std.	N/A	65%	65%	65%	65%	45%	35%	35%	35%	35%	65%	65%

Table 10: Hydrology

Statistic	Trinity	Shasta	Folsom	New Melones
Water Year Inflow (TAF)	1,067	5,050	2,525	1,030
Year to Date + Forecasted % of mean	88%	91%	93%	97%

CVP actual operations do not follow any forecasted operation or outlook; actual operations are based on real-time conditions.

CVP operational forecasts or outlooks represent general system-wide dynamics and do not necessarily address specific watershed/tributary details.

CVP releases or export values represent monthly averages.

CVP Operations are updated monthly as new hydrology information is made available December through May.

Estimated CVP Operations 90% Exceedance

Table 11: Storages – Federal End of the Month Storage/Elevation (TAF/Feet)

Facility	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Trinity	1720	1619	1613	1616	1629	1666	1733	1832	1760	1673	1557	1392
Trinity Elev.	N/A	2313	2312	2313	2314	2316	2322	2329	2324	2317	2308	2294
Whiskeytown	238	238	228	219	214	214	211	214	238	238	238	238
Whiskeytown Elev.	N/A	1209	1206	1203	1201	1201	1200	1201	1209	1209	1209	1209
Shasta	2766	2573	2533	2545	2616	2743	2982	3007	2801	2543	2213	1865
Shasta Elev.	N/A	988	986	986	990	996	1007	1008	999	986	969	949
Folsom	460	408	332	262	263	311	421	557	616	580	517	434
Folsom Elev.	N/A	404	393	380	380	389	406	423	430	426	419	408
New Melones	1823	1752	1749	1747	1751	1753	1774	1706	1639	1558	1480	1414
New Melones Elev.	N/A	1029	1029	1028	1029	1029	1031	1024	1018	1009	1001	994
San Luis	371	458	516	641	810	766	750	700	559	349	135	97
San Luis Elev.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	7378	7049	6970	7030	7283	7453	7872	8016	7612	6941	6140	5440

Table 12: State End of the Month Reservoir Storage (TAF)

Facility	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Oroville	1888	1709	1621	1594	1614	1715	1886	2065	2039	1740	1406	1088
Oroville Elev.	N/A	754	744	741	743	754	772	789	786	757	719	677
State San Luis	640	693	759	905	953	949	1046	973	815	586	345	248
State San Luis Elev.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total San Luis (TAF)	1011	1151	1275	1546	1763	1715	1796	1673	1374	935	480	345
Total San Luis Elev.	N/A	468	479	503	522	518	524	514	488	446	395	376

Table 13: Monthly River Releases (TAF/cfs)

Facility	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Trinity (TAF)	N/A	23	18	18	18	17	18	36	180	47	28	53
Trinity (cfs)	N/A	373	300	300	300	300	300	600	2,924	783	450	857
Clear Creek (TAF)	N/A	15	12	12	12	11	22	12	18	13	9	9
Clear Creek (cfs)	N/A	250	200	200	200	200	363	200	296	224	150	150
Sacramento (TAF)	N/A	421	268	246	246	250	277	416	535	565	615	615
Sacramento (cfs)	N/A	6850	4500	4000	4000	4500	4500	7000	8700	9500	10000	10000
American (TAF)	N/A	93	119	123	61	56	62	71	116	109	123	123

Facility	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
American (cfs)	N/A	1505	2007	2000	1000	1001	1010	1188	1889	1828	2000	2009
Stanislaus (TAF)	N/A	48	12	12	14	12	12	46	39	12	12	12
Stanislaus (cfs)	N/A	774	200	200	226	221	200	767	631	200	200	200
Feather (TAF)	N/A	215	104	108	108	97	108	104	108	286	246	246
Feather (cfs)	N/A	3500	1750	1750	1750	1750	1750	1750	1750	4800	4000	4000

Table 14: Trinity Diversions (TAF)

Diversion Facility	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Carr PP	N/A	79	0	0	0	0	0	0	36	91	110	111
Spring Creek PP	N/A	65	0	0	0	0	0	0	0	80	100	100

Table 15: Delta Summary (TAF)

Facility	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Tracy	N/A	231	148	185	225	51	70	57	58	50	106	221
USBR Banks	N/A	22	22	22	0	0	0	0	0	0	0	0
Contra Costa	N/A	14.0	14.0	14.0	14.0	14.0	12.0	12.0	12.0	10.0	11.0	12.0
Total USBR	N/A	267	184	221	239	65	82	69	70	60	117	233
State Export	N/A	212	205	232	155	97	184	33	34	24	77	120
Total Export	N/A	479	389	453	394	162	266	101	104	84	194	353
COA Balance	N/A	38	76	118	118	118	118	127	163	124	119	118
Vernalis (TAF)	N/A	107	74	75	77	82	98	103	100	43	45	40
Vernalis (cfs)	N/A	1734	1242	1225	1251	1482	1599	1725	1631	721	737	655
Old/Middle River calc.	N/A	-5,810	-5,066	-5,713	-4,962	-2,170	-3,202	-1,124	-1,161	-1,353	-2,688	-4,717
Computed DOI	N/A	4002	4505	4506	8117	11400	11403	9497	7499	7110	4506	4506
Excess Outflow	N/A	0	0	0	3611	0	0	0	0	0	0	0
% Export/Inflow	N/A	57%	53%	58%	45%	19%	27%	12%	13%	10%	25%	40%
% Export/inflow std.	N/A	65%	65%	65%	65%	45%	35%	35%	35%	35%	65%	65%

Table 16: Hydrology

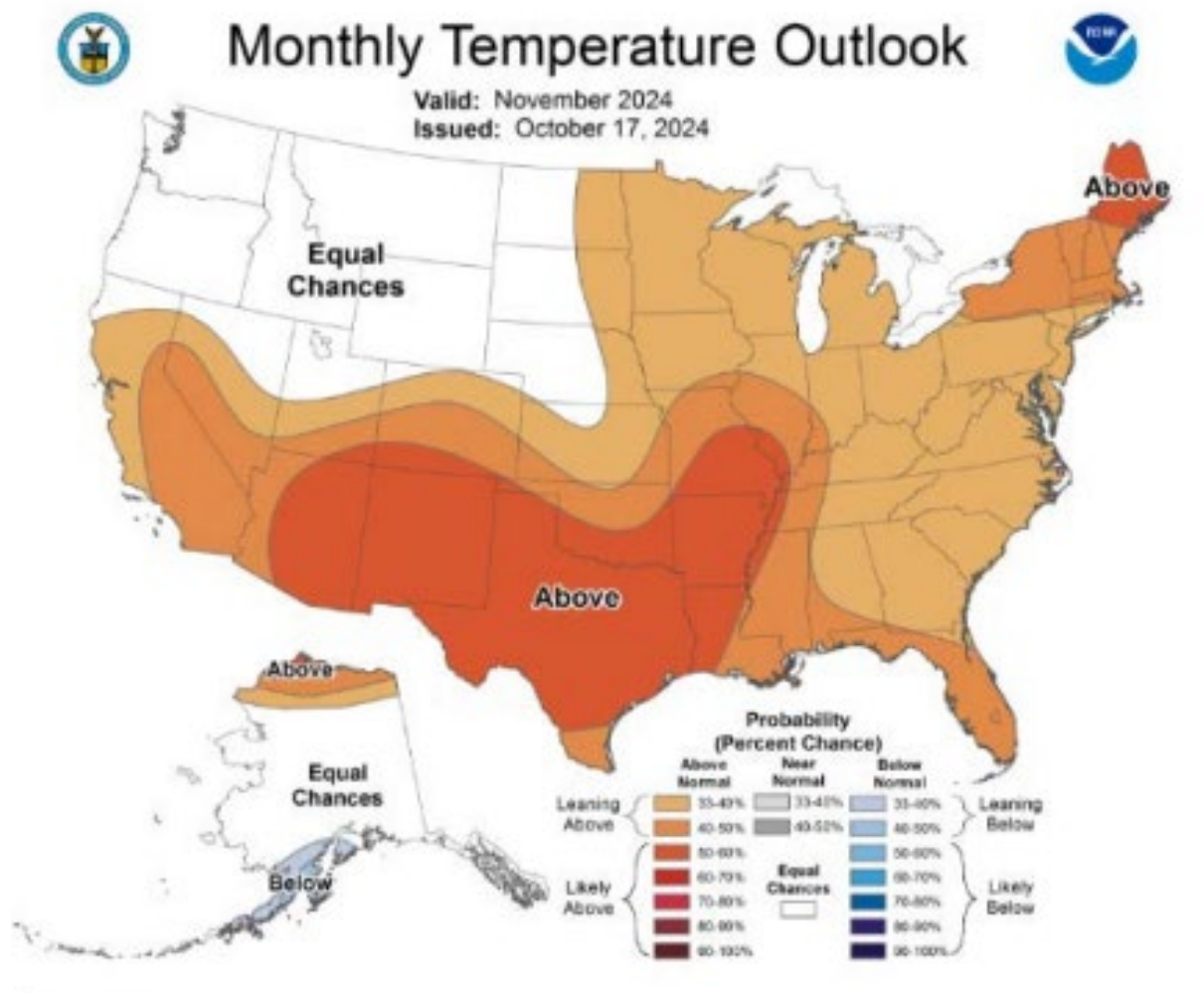
Statistic	Trinity	Shasta	Folsom	New Melones
Water Year Inflow (TAF)	608	3,470	1,220	450
Year to Date + Forecasted % of mean	50%	63%	45%	43%

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NOAA/ National Weather Service
 National Centers for Environmental Prediction
 Climate Prediction Center
 5830 University Research Court
 College Park, Maryland 20740
 Page Author: Climate Prediction Center Internet Team
 Page last modified:

Figure 26: Monthly Temperature Outlook

This figure shows a monthly temperature outlook with the percent probability of near normal, below, or above normal temperatures for all of the United States. The figure is valid for November 2024 and was issued on October 17th, 2024.

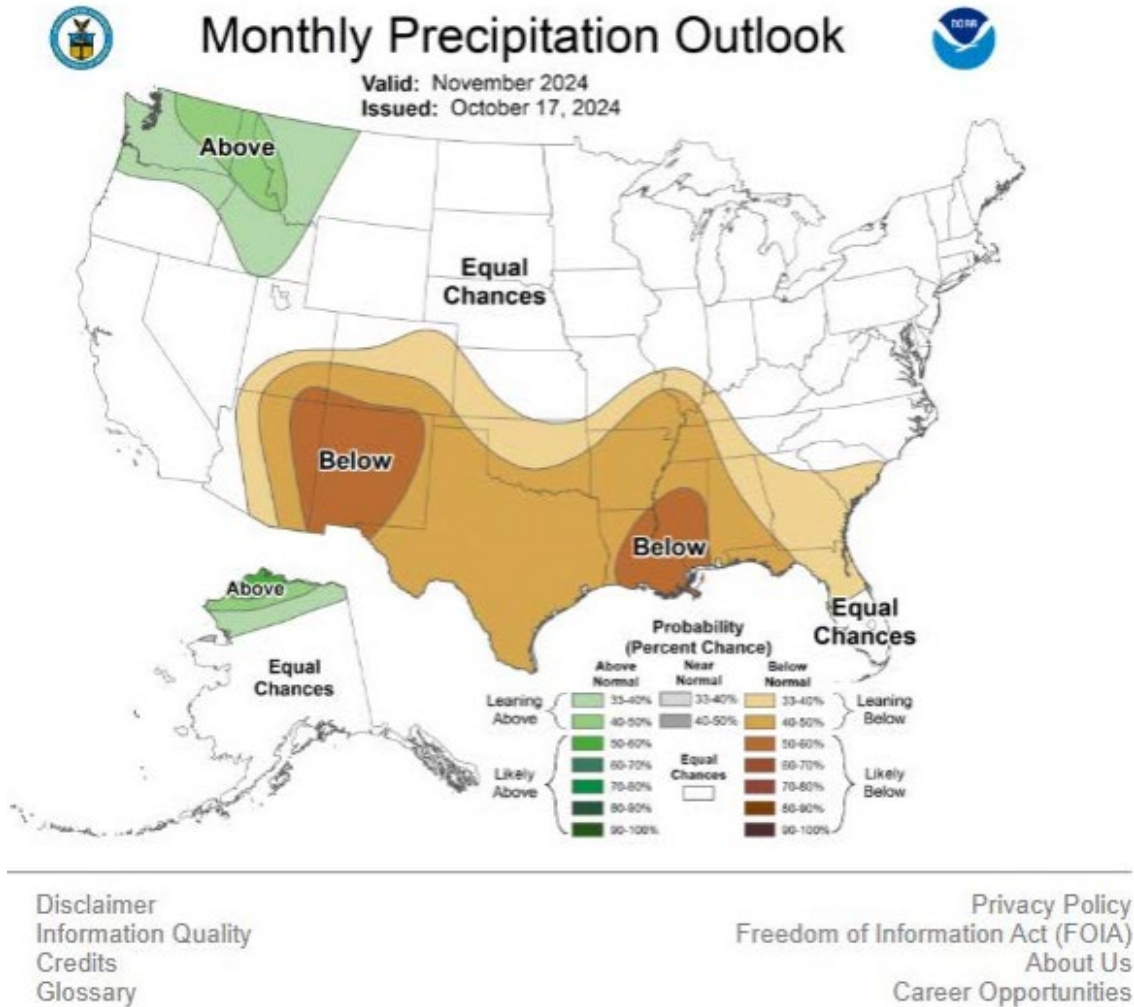


Figure 27: Monthly Precipitation Outlook

This figure shows a monthly precipitation outlook with the percent probability of near normal, below, or above normal precipitation for all of the United States. The figure is valid for November 2024 and was issued on October 17th, 2024.



Seasonal Temperature Outlook



Valid: Dec-Jan-Feb 2024-25
Issued: October 17, 2024

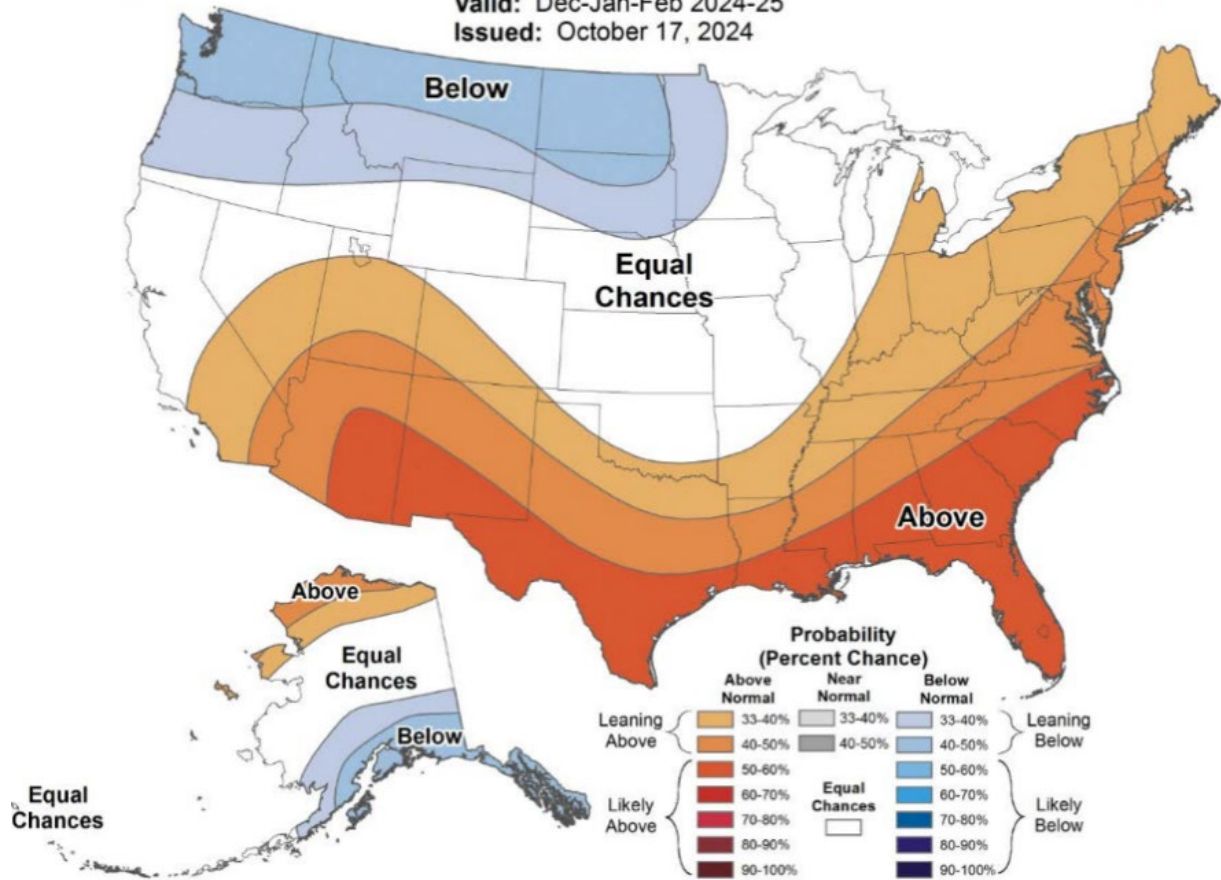


Figure 28: Seasonal Temperature Outlook

This figure shows a seasonal temperature outlook with the percent probability of near normal, below, or above normal temperatures for all of the United States. The figure is valid from December 2024 to February 2025 and was issued on October 17th, 2024.



Seasonal Precipitation Outlook



Valid: Dec-Jan-Feb 2024-25
Issued: October 17, 2024

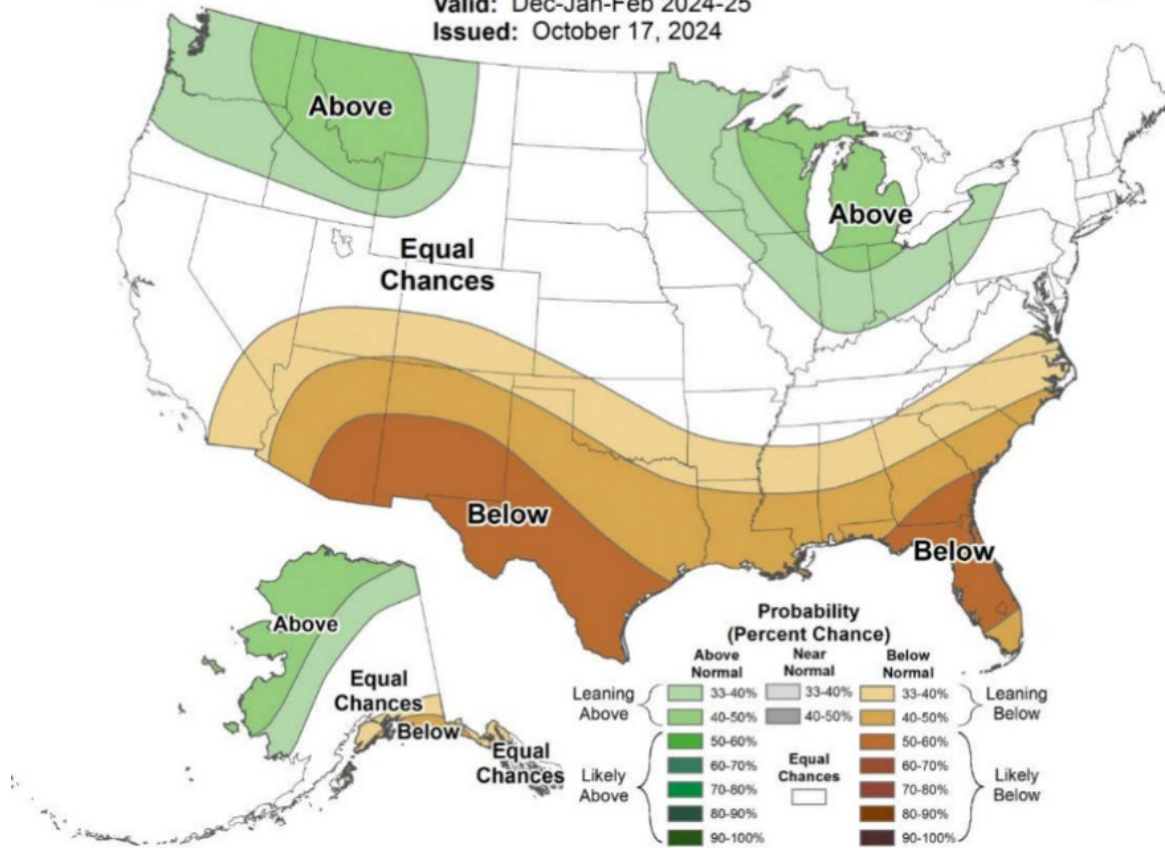


Figure 29: Seasonal Precipitation Outlook

This figure shows a seasonal precipitation outlook with the percent probability of near normal, below, or above normal precipitation for all of the United States. The figure is valid from December 2024 to February 2025 and was issued on October 17th, 2024.