



Sacramento River Temperature Task Group Meeting Packet

September 26, 2024

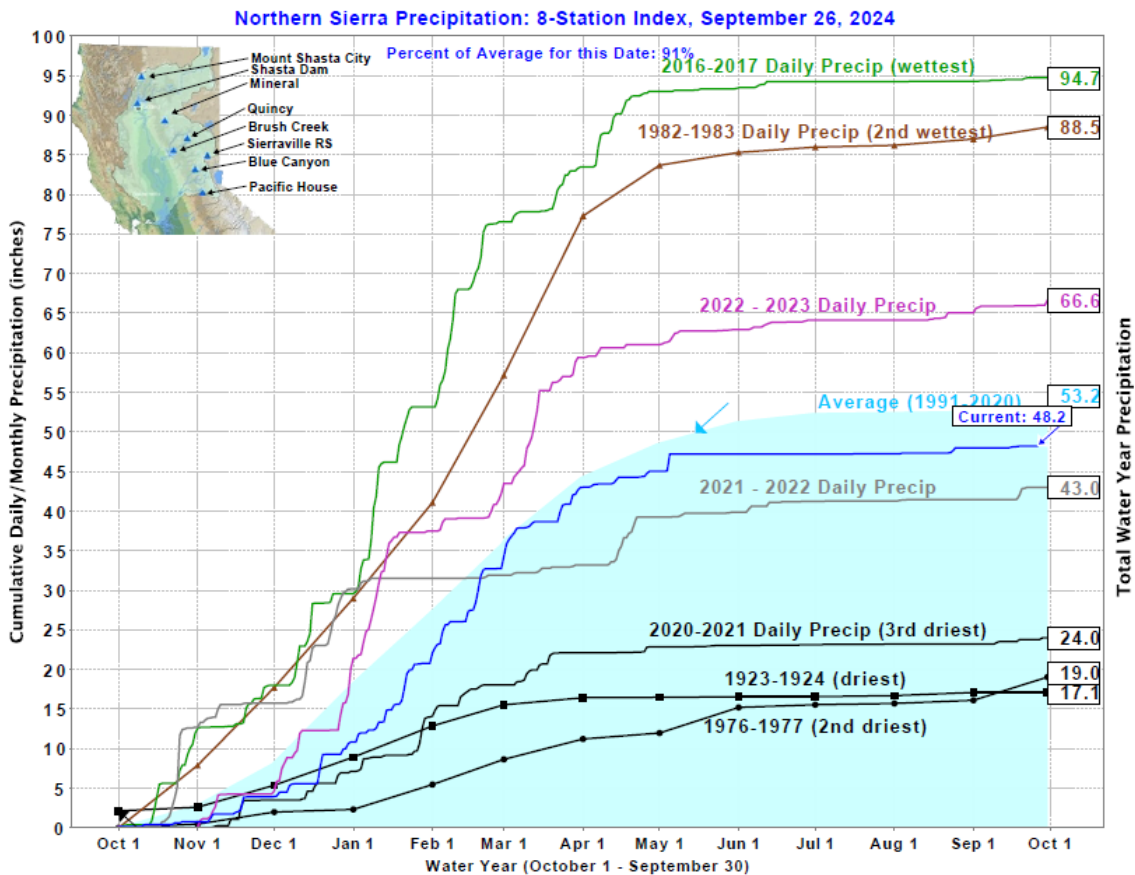


Figure 1: Northern Sierra Precipitation: 8-Station Index, September 26, 2024

This figure shows a line graph precipitation at the Northern Sierra 8-station Index. The graph includes the current cumulative daily and monthly precipitation, 47.3 (90% 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)

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

September 25, 2024

Run Date: September 26, 2024

Table 1: Reservoir Releases in Cubic Feet Per Second

Reservoir	Dam	WY 2023	WY 2024	15-Year Median
Trinity	Lewiston	448	456	456
Sacramento	Keswick	6,679	7,567	6,859
Feather	Oroville (SWP)	7,500	0	4,000
American	Nimbus	2,991	1,722	1,767
Stanislaus	Goodwin	1,265	251	205
San Joaquin	Friant	391	424	353

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

Reservoir	Capacity	15-Yr Avg	WY 2023	WY 2024	% O 15 Yr Avg
Trinity	2,448	1,341	1,285	1,738	130
Shasta	4,552	2,482	3,353	2,806	113
Folsom	977	473	678	465	98
New Melones	2,420	1,320	1,898	1,825	138
Fed. San Luis	966	349	797	400	115
Total North CVP	11,363	5,965	8,011	7,234	121
Millerton	521	275	228	253	92
Oroville (SWP)	3,538	1,696	2,645	0	0

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

Reservoir	Current WY 2024	WY 1977	WY 1983	15-Yr Avg	% O 15 Yr Avg
Trinity	1,535	692	1,993	1,101	139
Shasta	5,596	3,573	8,972	4,803	117
Folsom	2,328	1,133	6,084	2,670	87
New Melones	943	N/A	2,153	1,083	87
Millerton	1,897	811	3,107	1,740	109

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

Reservoir	Current WY 2024	WY 1977	WY 1983	Avg (N Yrs)	% of Avg	Last 24 Hours
Trinity at Fish Hatchery	35.97	24.24	40.84	30.84 (64)	117	0.00
Sacramento at Shasta Dam	64.44	39.17	87.75	59.91 (69)	108	0.00
American at Blue Canyon	51.75	5.09	115.76	64.70 (50)	80	0.00
Stanislaus at New Melones	28.92	N/A	38.18	27.09 (47)	107	0.00
San Joaquin at Huntington LK	32.28	16.20	70.10	40.67 (51)	79	0.00

Table 5: Sacramento River Station Temperature Summary Report

Date	MDWT TCD ¹	MDWT SHD	MDWT SPP ¹	MDWT KWK	MDWT SAC ²	MDWT CCR	MDWT BSF	MDWT BND	MDWT RBD	MDWT IGO	MDWT LWS	MDWT DGC ³	MDWT NFH	MDR Shasta Genera- tion	MDR Spring Creek PP	MDR Keswick Total	MDAT RDD	MDAT BSF	MDAT RDB
Aug	51.2	50.4	57.3	52.2	52.7	53.4	54.8	56.2	57.8	58.5	50.2	57.8	63.1	11457	1185	13246	89.8	83.3	83.8
09/01	50.7	49.6	57.0	52.0	52.6	53.4	55.0	56.7	58.5	58.5	49.9	57.1	62.5	7371	1373	9523	81.0	75.1	75.8
09/02	50.8	49.8 A	56.9	52.0	52.6	53.5	55.0	56.5	58.1	58.0	49.9	56.9	62.1	8167	1241	9359	74.5	70.2	69.8
09/03	50.1 X	49.5 A	56.8	52.1	52.6	53.4	54.7	56.1	57.8	58.0	49.9	56.4	61.6	7736	1379	9375	78.5	73.0	75.8
09/04	50.0	49.2	56.9	51.9	52.6	53.7	55.0	56.4	57.9	58.1	50.2	56.1	60.9	7266	1372	9059	82.5	76.6	80.5
09/05	50.1	49.2	56.9	51.6	52.2	53.2	54.8	56.6	58.1	58.5	50.3	57.0	61.6	7162	1268	9042	86.0	78.3	80.3
09/06	50.2	49.3 A	56.9	51.6	52.2	53.2	54.7	56.5	58.1	58.6	49.7	56.8	61.8	7457	1221	9149	85.5	78.4	81.4
09/07	50.1	49.2	56.9	51.6	52.2	53.3	54.8	56.6	58.3 A	58.3	49.6	56.4	61.4	7693	1196	9183	83.5	76.6	78.0
09/08	50.2	49.2	56.9	51.5	52.1	53.0	54.4	56.0	57.8	57.7	49.5	55.6	60.8	7390	1163	9183	78.0	71.5	74.0
09/09	50.8	49.5	56.9	51.5	52.1	52.9	54.3	55.8	57.3 A	57.6	49.4	55.1	59.9	7408	1167	9186	80.5	73.5	77.3
09/10	50.8	49.5	56.7	51.6	52.1	53.1	54.5	56.0	57.5	58.1	49.2	56.0	60.4	6953	1255	8633	78.5	73.0	73.1
09/11	50.4	49.4 A	56.8	52.3	52.7	53.4	54.8	56.3	57.7	57.1	49.4	55.4	59.5	6688	1276	8609	73.5	69.3	69.5
09/12	50.4	49.5 A	56.7	51.9	52.5	53.5	54.9	56.3	57.6	57.7	50.0	54.6	58.9	6774	1193	8687	77.0	68.3	71.5
09/13	50.2 X	49.4	56.7	51.7	52.3	53.4	55.0	56.2	57.6	57.6	49.9	55.2	59.4	6377	1184	8034	80.0	70.8	72.0
09/14	50.3	49.3	56.6	51.7	52.3	53.2	54.8	56.1	57.5	56.9	49.6	55.3	59.5	6890	978	8109	75.5	70.0	71.5
09/15	50.3	49.3	56.7	51.6	52.1	52.8	54.7	56.2	57.6	57.2	49.5	56.0	59.7	6482	1219	8108	70.0	68.1	68.0
09/16	51.1	49.4 A	56.7	51.7	52.1	52.6	54.2	55.5	56.7	56.4	49.6	54.9	59.2	6066	1351	8186	63.5	61.0	61.5
09/17	51.2	49.5 A	56.5	51.5	51.8	52.4	53.9	55.2	56.5	56.6	49.3	54.5	58.3	5976	1031	8214	68.5	65.3	65.1
09/18	51.0	49.2	56.5	51.7	52.2	53.0	54.3	55.4	56.6	57.4	49.2	55.2	59.1	6610	1094	8236	73.0	67.6	68.1
09/19	50.9	49.2	56.5	51.6	52.2	53.2	54.8	56.0	57.5	57.5	49.0	54.8	59.1	6575	1188	8108	75.5	70.3	71.9
09/20	50.8 X	49.2 A	56.5	51.6	52.1	53.0	54.8	56.0	57.6	57.3	48.9	54.6	59.1	6034	1096	8093	79.0	73.0	75.0
09/21	50.8	49.2	56.4	51.6	52.2	53.1	54.8	55.9	57.5	57.3	49.0	54.4	58.9	6530	1105	8063	81.0	72.9	74.5
09/22	50.8	49.2	56.4	51.5	52.0	52.9	54.5	55.6	57.2	57.3	49.1	54.0	58.4	6480	1147	8053	78.5	70.7	74.5
09/23	50.9	49.4	56.3	51.7	52.2	53.3	54.7	55.7	57.1	57.6	49.1	54.3	58.4	5637	1119	7645	82.5	73.8	77.3

Date	MDWT TCD ¹	MDWT SHD	MDWT SPP ¹	MDWT KWK	MDWT SAC ²	MDWT CCR	MDWT BSF	MDWT BND	MDWT RBD	MDWT IGO	MDWT LWS	MDWT DGC ³	MDWT NFH	MDR Shasta Genera- tion	MDR Spring Creek PP	MDR Keswick Total	MDAT RDD	MDAT BSF	MDAT RDB
09/24	50.9	49.4	56.3	51.6	52.2	53.2	54.9	56.0	57.6	57.4	49.1	54.5	58.7	5736	1134	7556	79.5	72.6	75.3
09/25	51.1	49.7 A	56.2	51.6	52.2	53.1	54.9	56.0	57.5	57.2	49.1	54.5	58.5	5457	1166	7567	68.5	70.7	71.3
Sep	50.6	49.4	56.7	51.7	52.3	53.2	54.7	56.1	57.6	57.6	49.5	55.4	59.9	6757	1197	8518	77.4	71.6	73.3
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	6757	1197	8518	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	168915	29916	212960	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
- = 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.

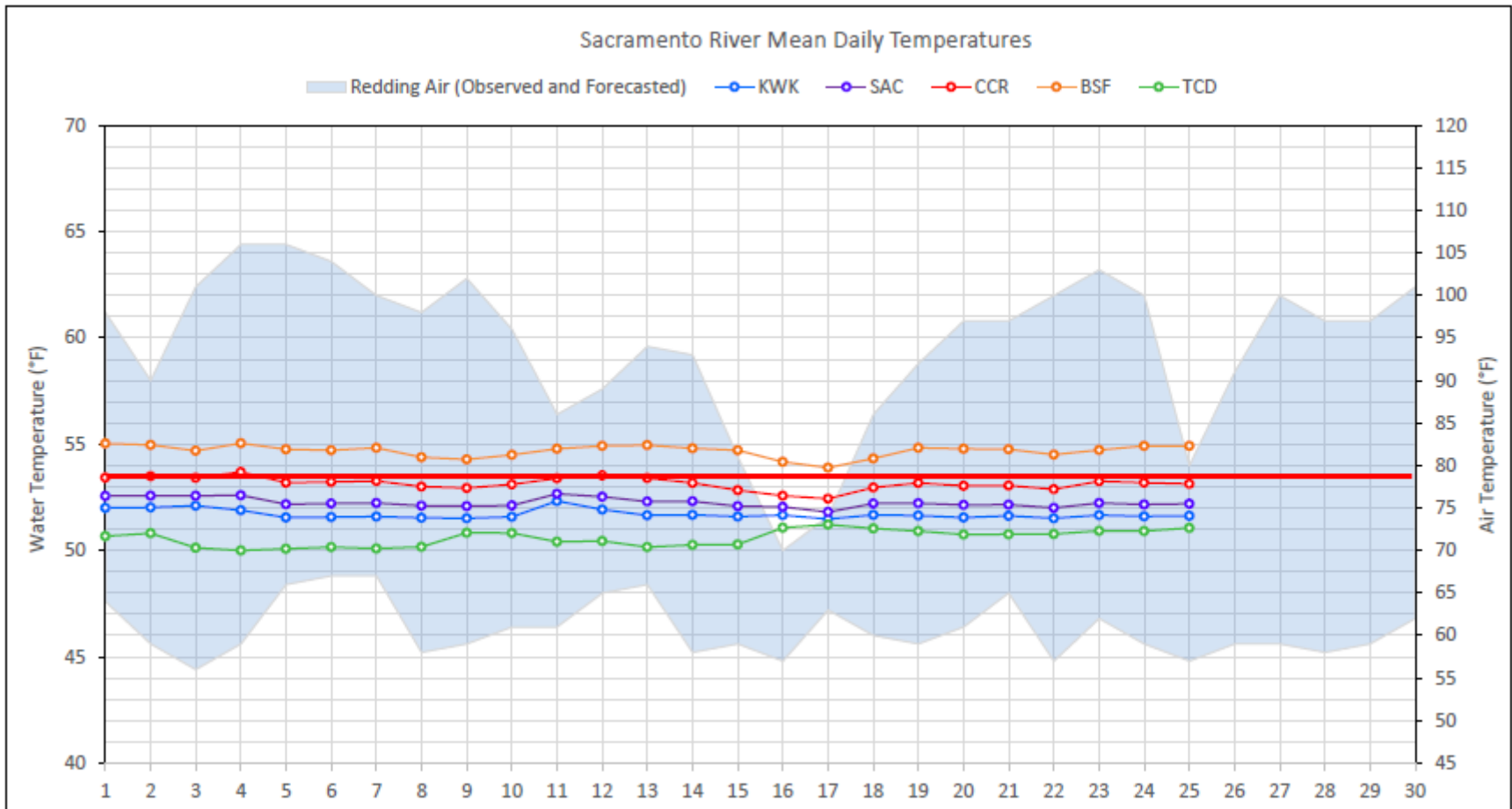


Figure 2: Sacramento River Mean Daily Temperatures

This figure shows mean Sacramento River daily temperatures in degrees Fahrenheit at Shasta Power Plant and various stations 0.8, 4.8, 9.7, and 25 miles downstream of Keswick Dam for the past 20 days. It also includes a shaded area depicting observed and forecasted air temperatures in degrees Fahrenheit in Redding California.

Table 6: 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

Table 7: 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

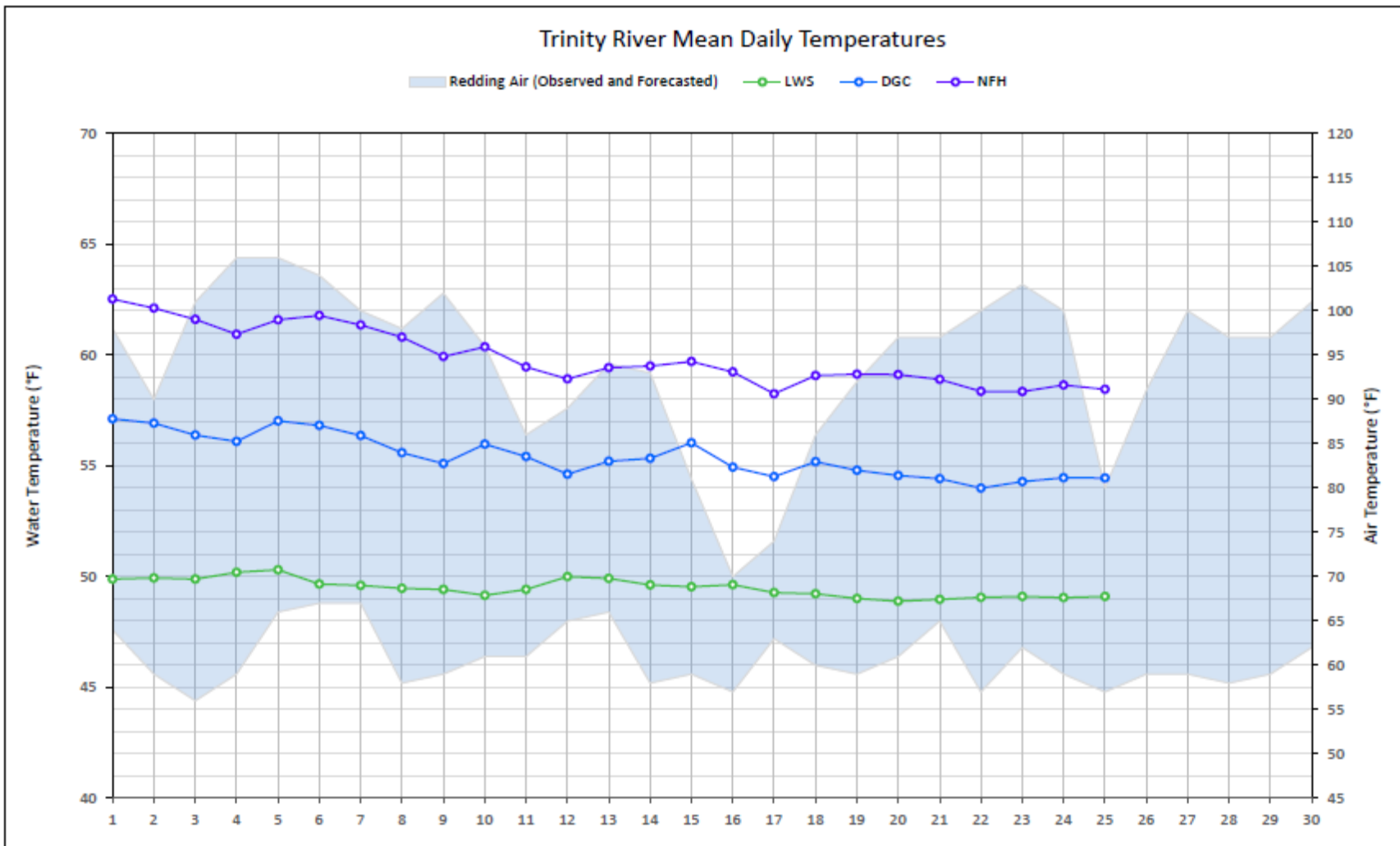


Figure 3: Trinity River Mean Daily Temperatures

This figure shows the mean Trinity River daily temperatures in degrees Fahrenheit at stations 1.1, 19, and 38 miles downstream of Lewiston Dam for the past 20 days. It also includes a shaded area depicting observed and forecasted air temperatures in degrees Fahrenheit in Redding California.

Table 8: 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

Table 9: Water Right Temperature Control Points

River	Point	Temp (°F)	Begin Date	End Date
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A

Notes: ¹ Distances are approximate

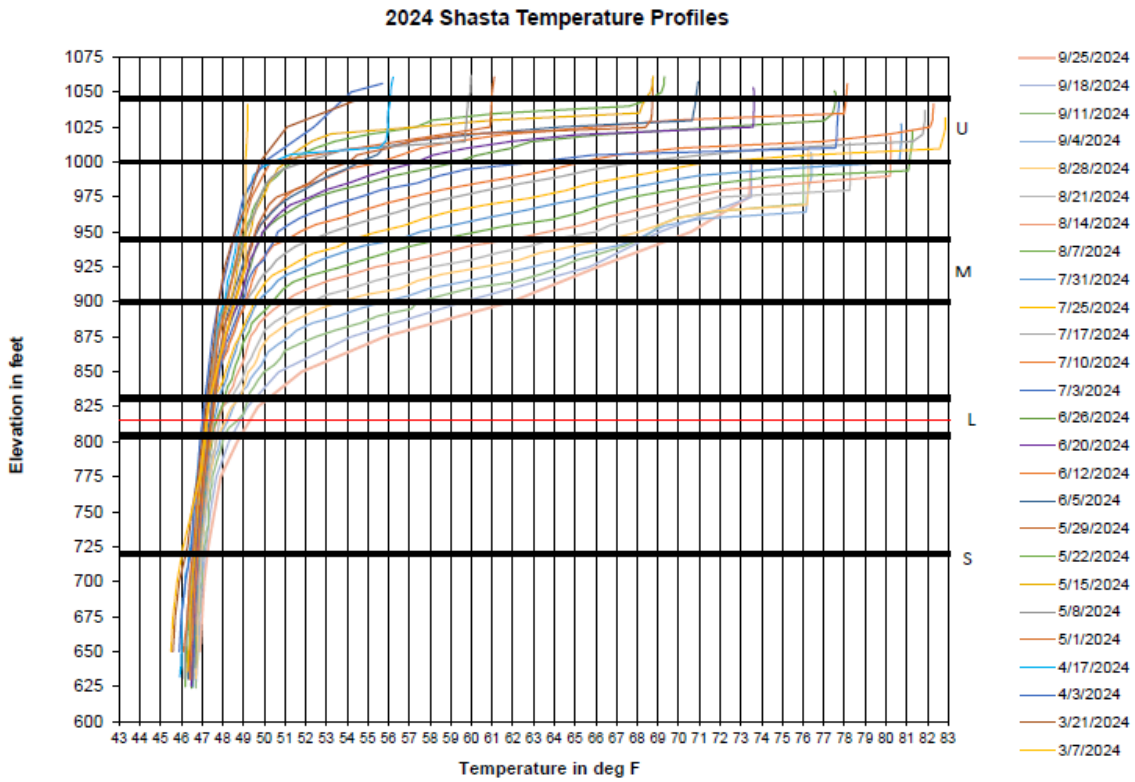


Figure 4: 2024 Shasta Temperature Profiles

This figure is a multiple line graph showing Shasta Lake temperature profiles from 03/07-09/25 with lake elevation 625-1075' and lake temperatures from 46-78 degrees Fahrenheit.

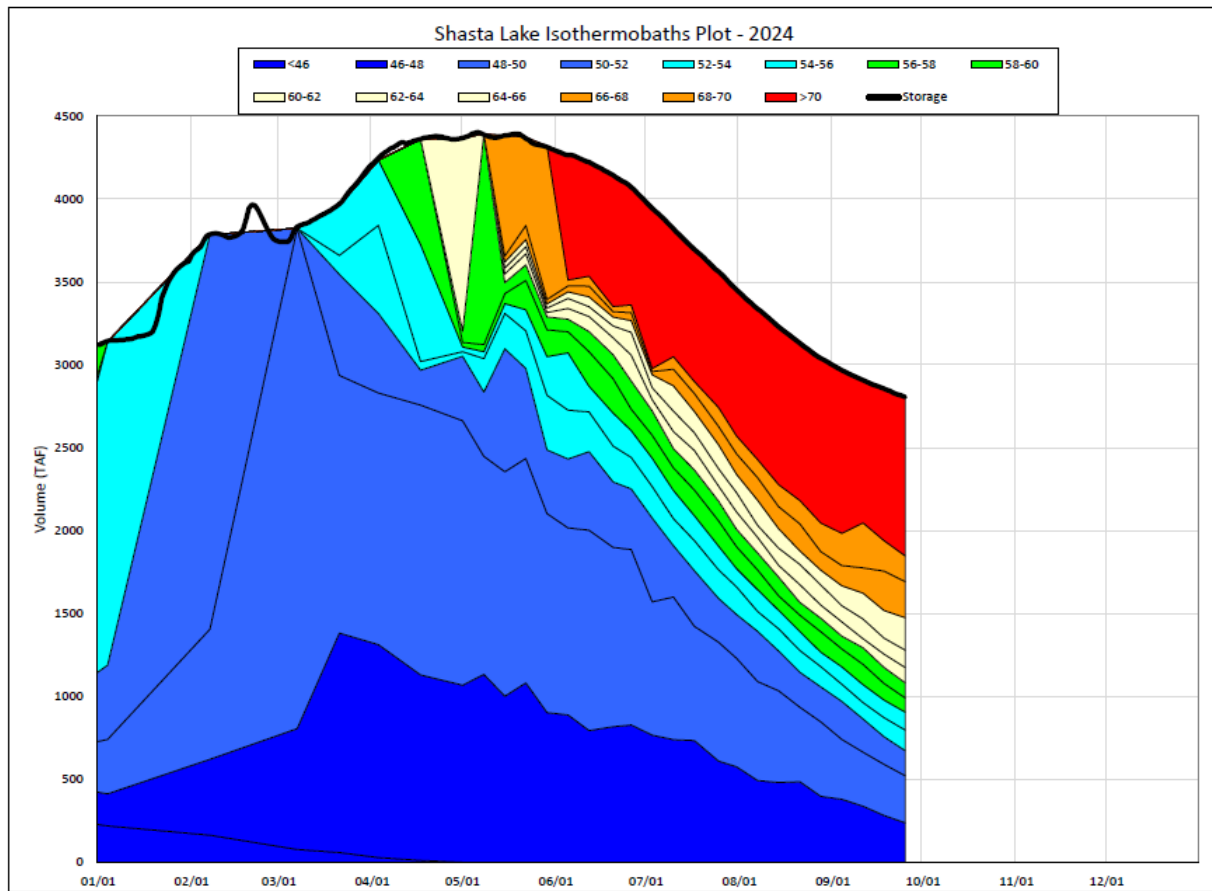


Figure 5: Shasta Lake Isothermobaths Plot - 2024

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

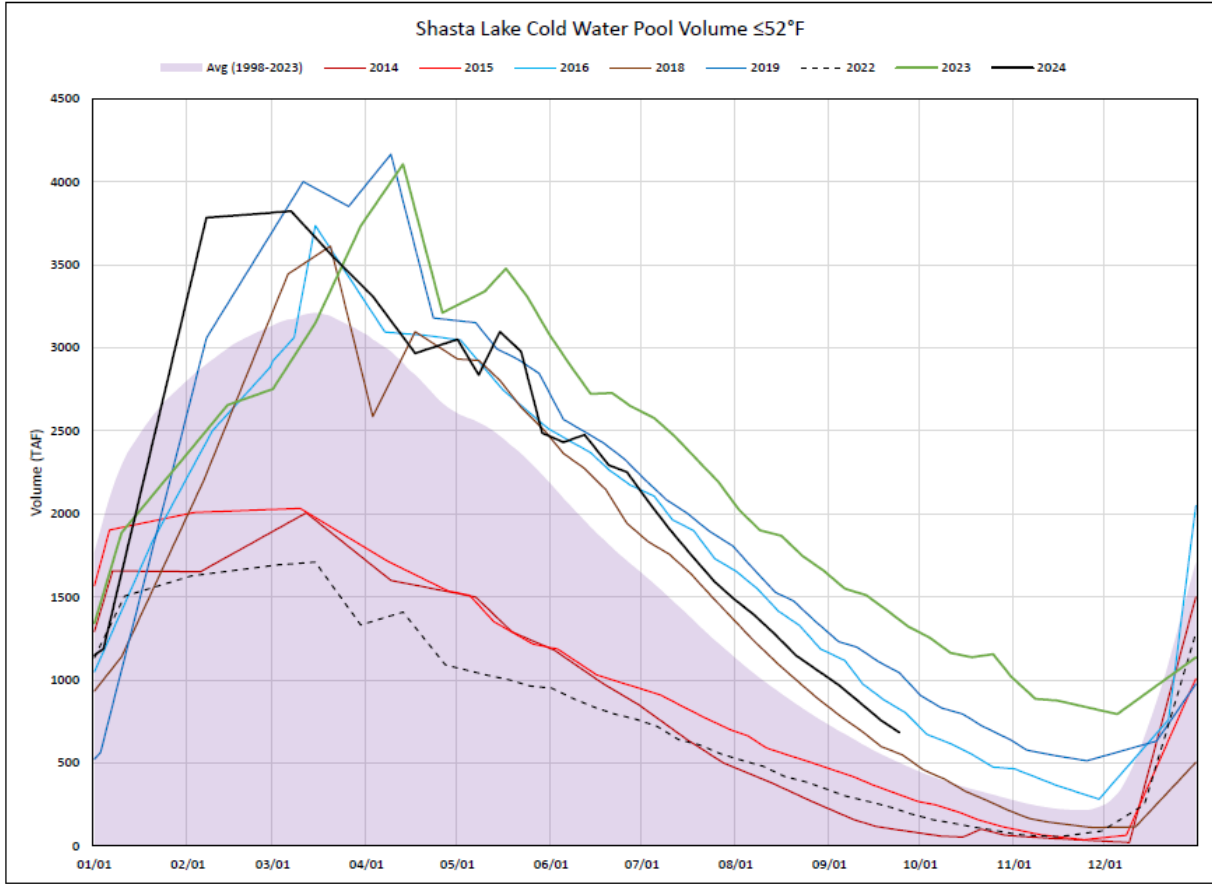


Figure 6: Shasta Lake Cold Water Pool Volume ≤52°F

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.

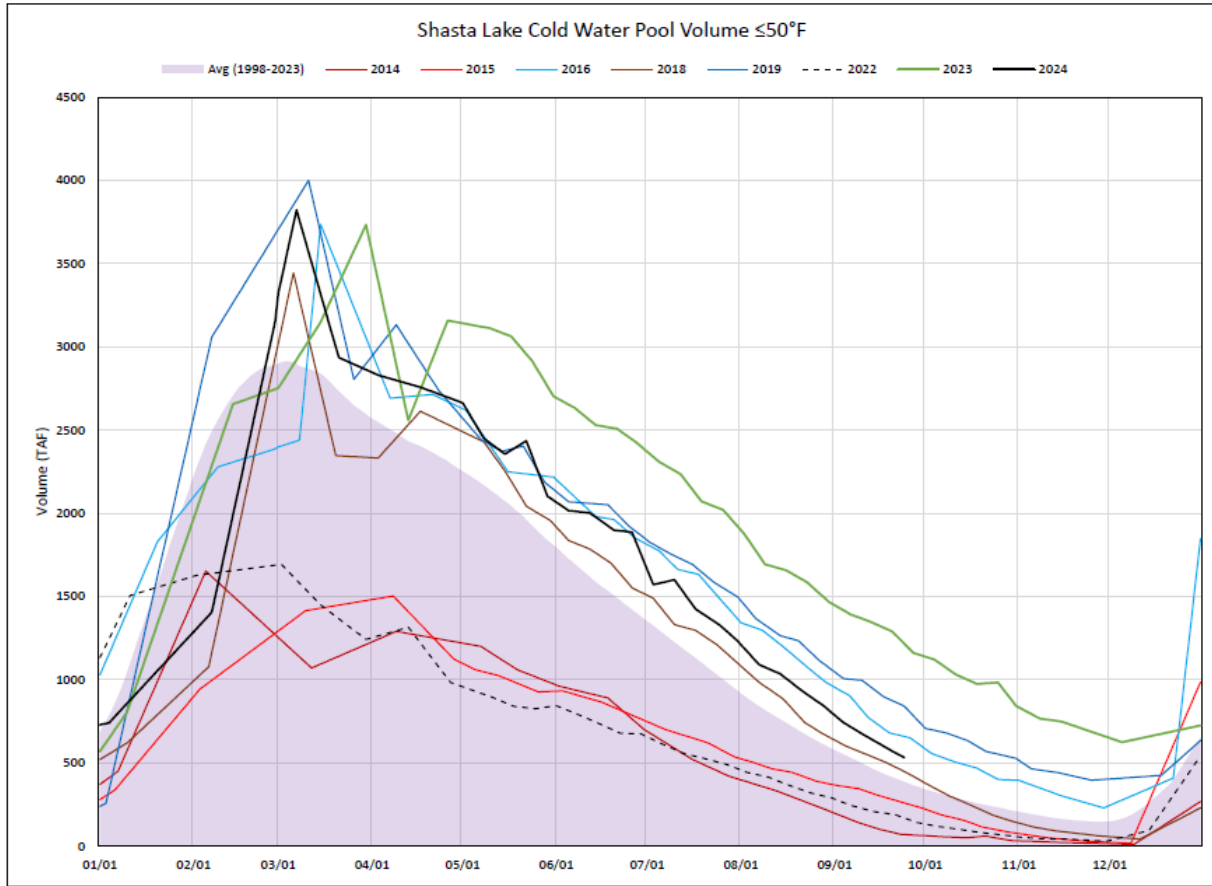


Figure 7: Shasta Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$

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.

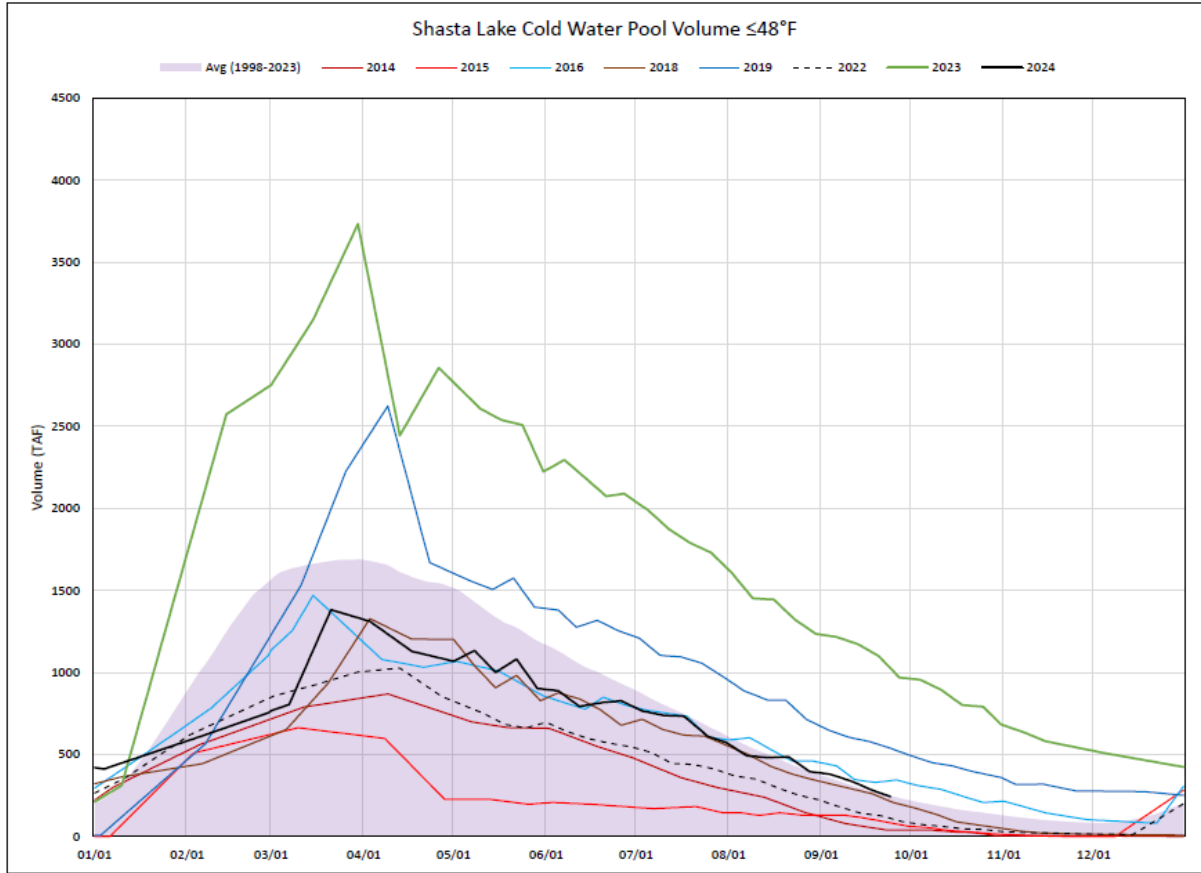


Figure 8: Shasta Lake Cold Water Pool Volume ≤48°F

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.

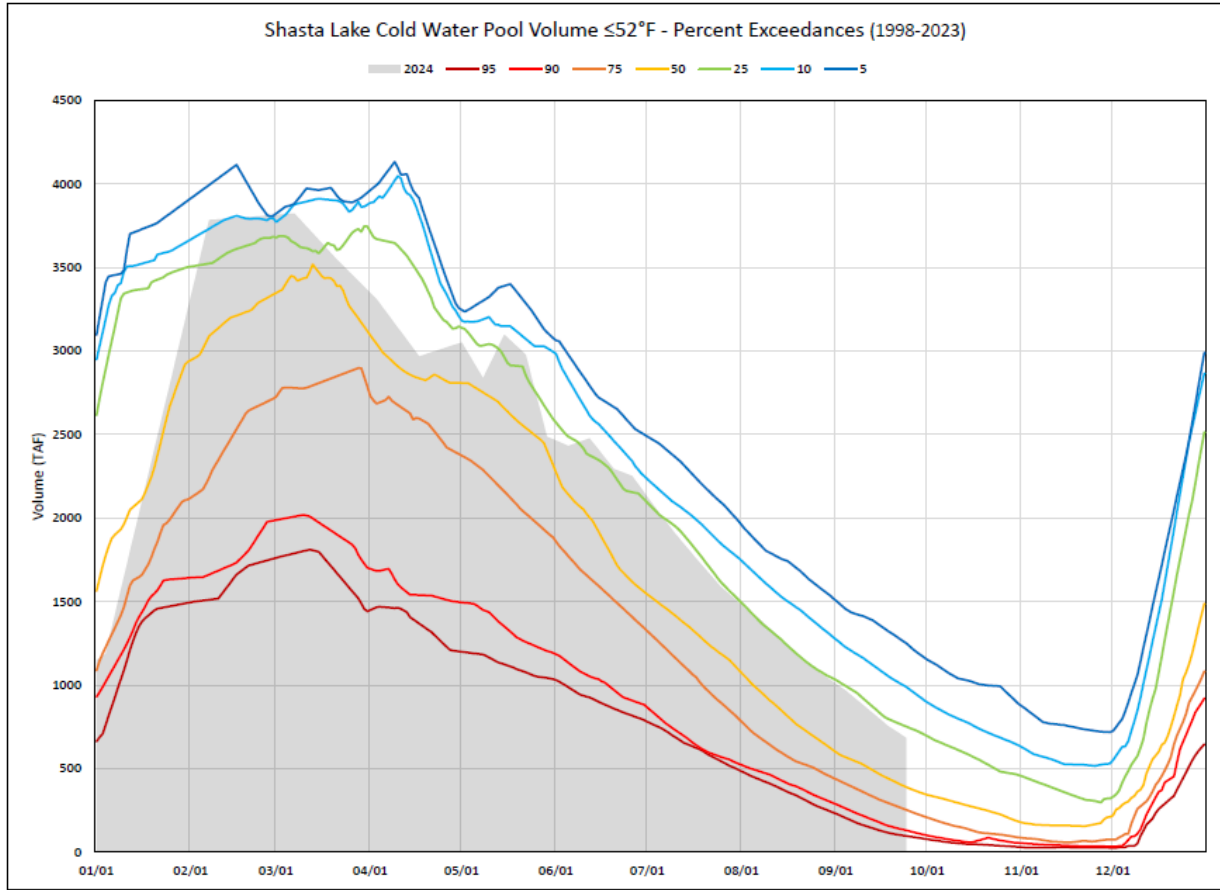


Figure 9: Shasta Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances (1998-2023)

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.

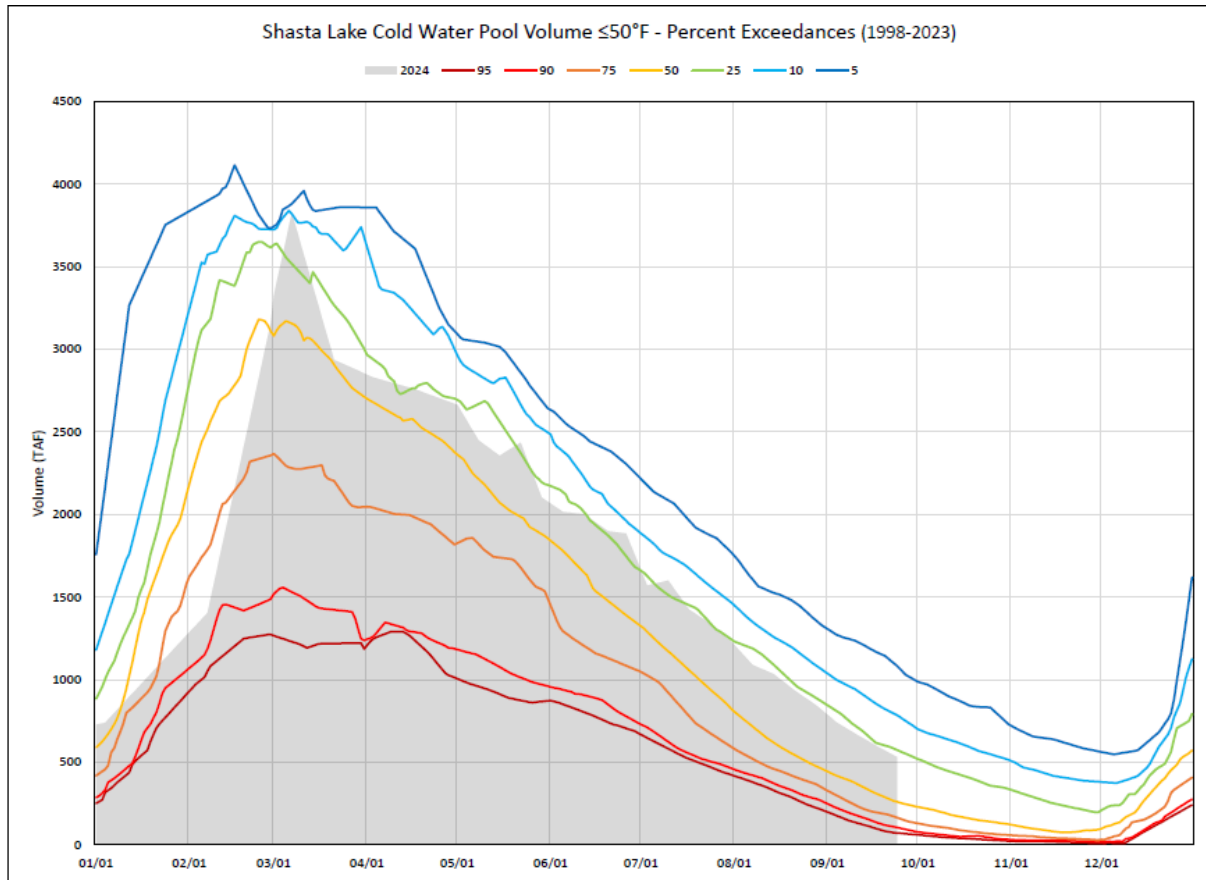


Figure 10: Shasta Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$ - Percent Exceedances (1998-2023)

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

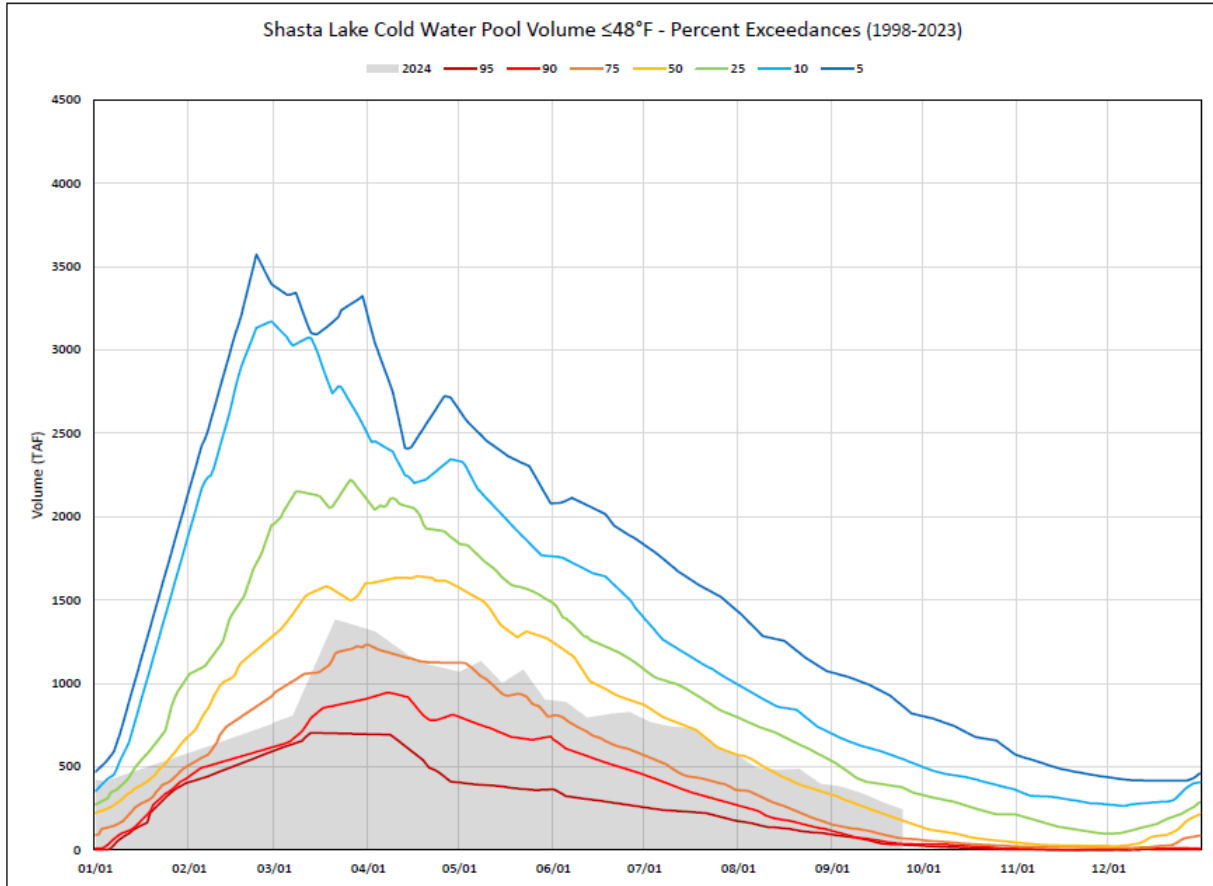


Figure 11: Shasta Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$ - Percent Exceedances (1998-2023)

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.

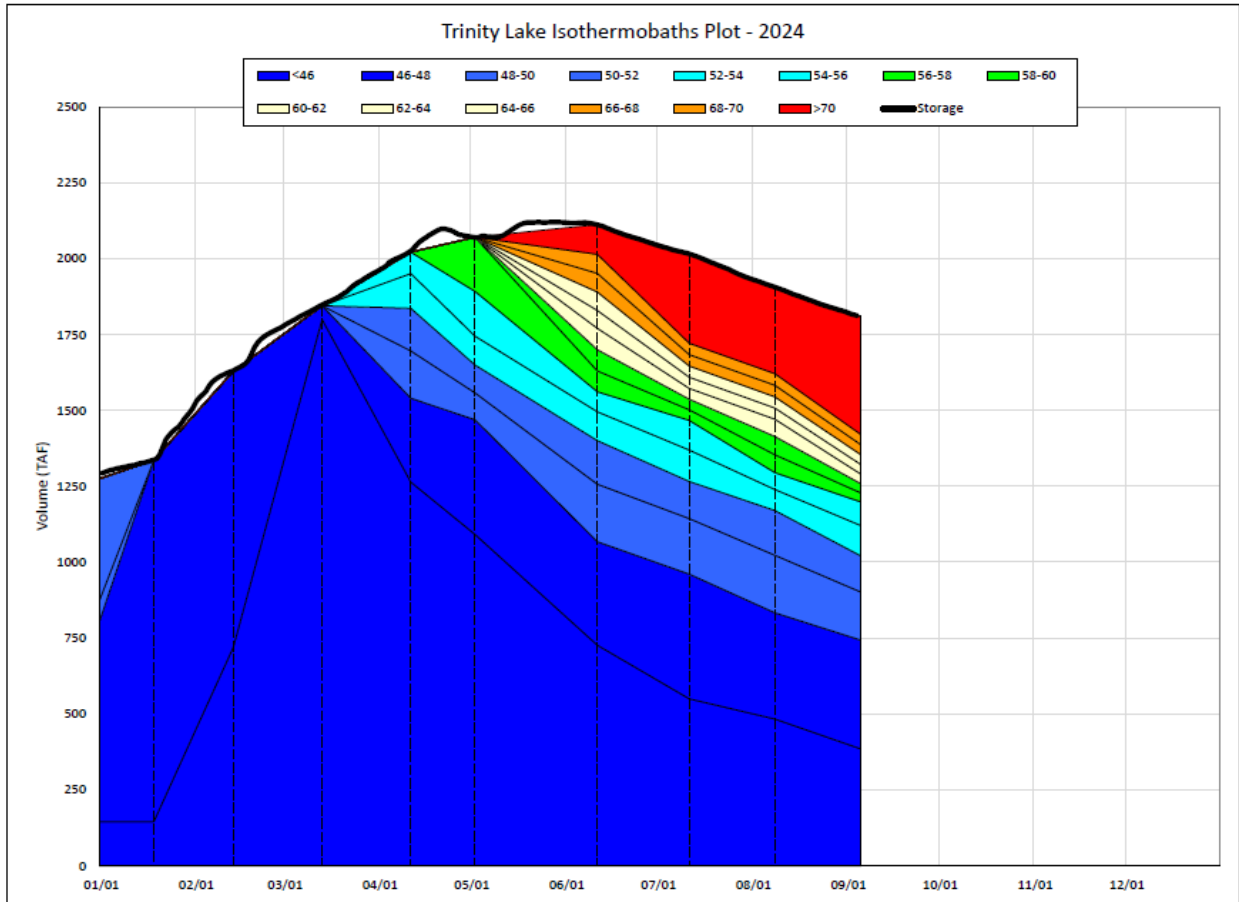


Figure 12: Trinity Lake Isothermobaths Plot – 2024

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

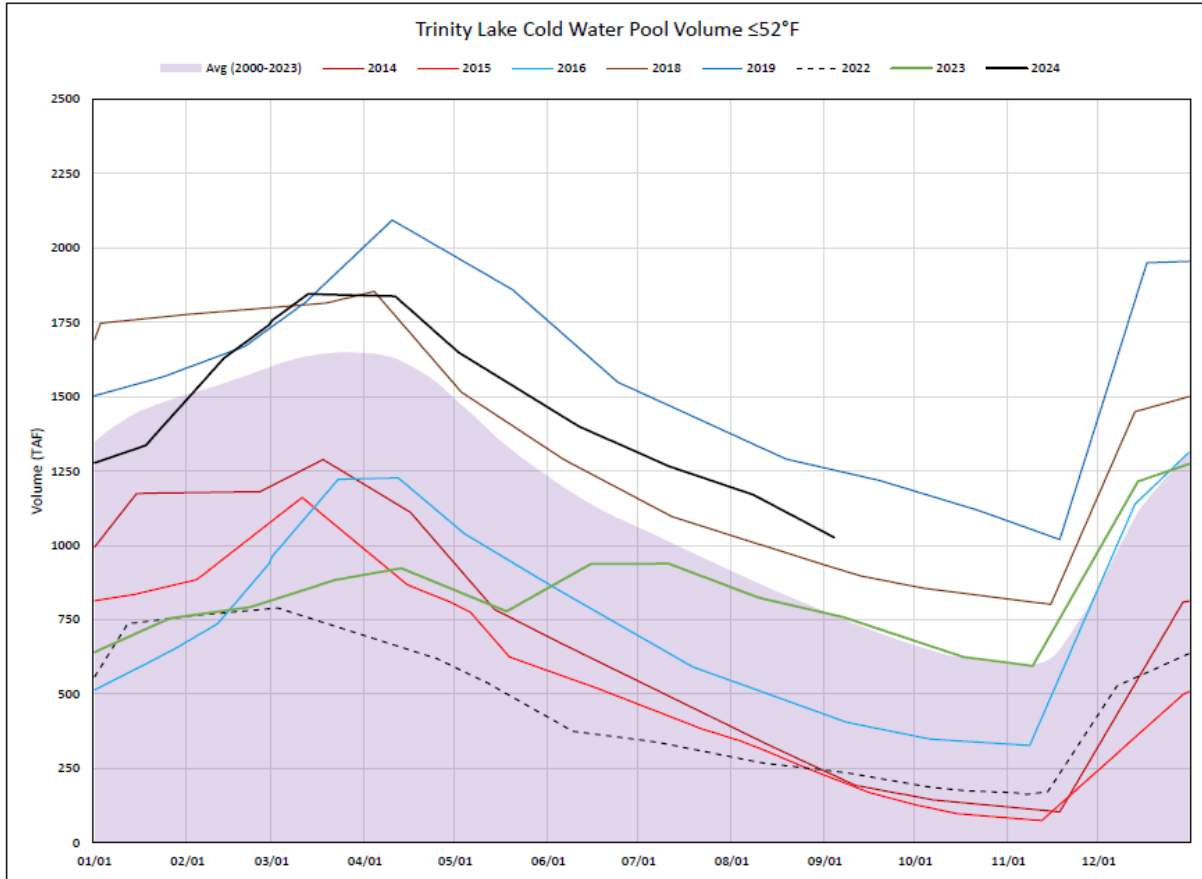


Figure 13: Trinity Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances (1998-2023)

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.

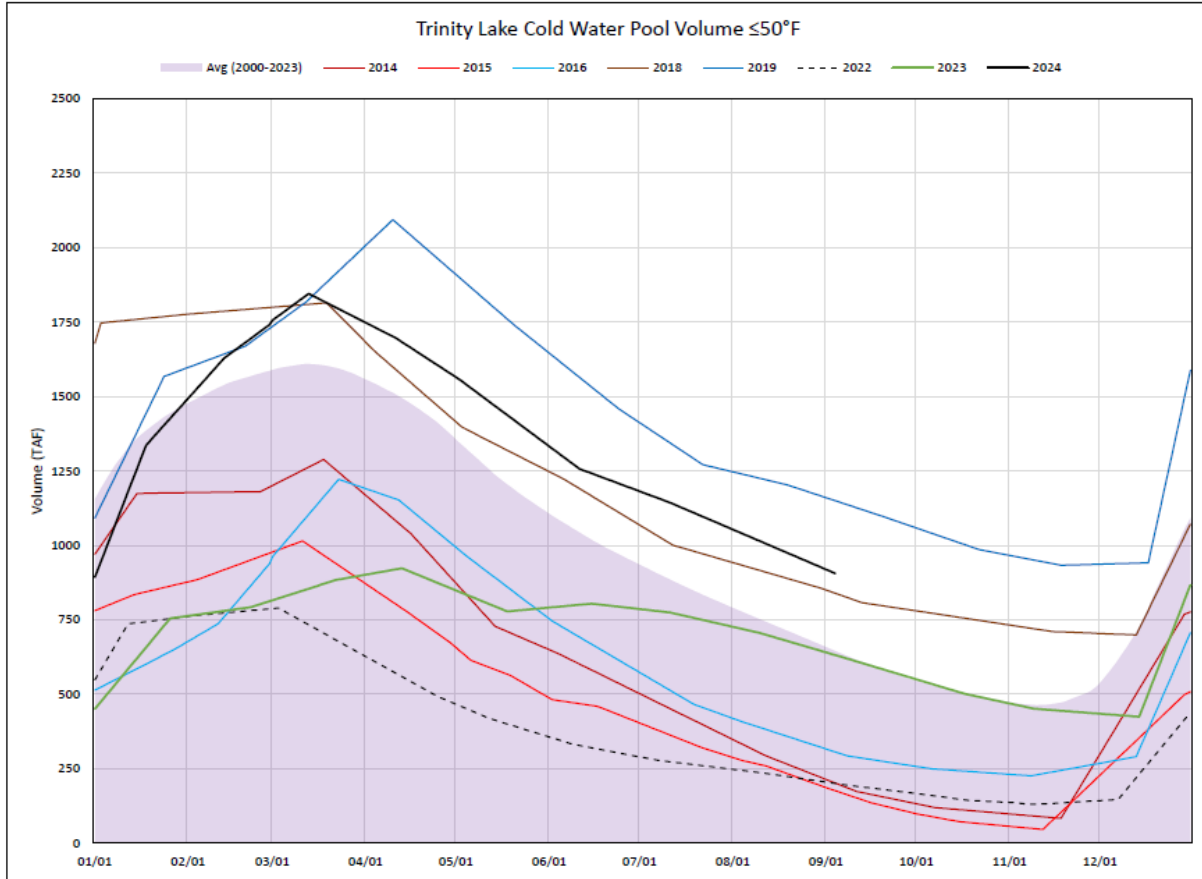


Figure 14: Trinity Lake Cold Water Pool Volume ≤50°F - Percent Exceedances (1998-2023)

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.

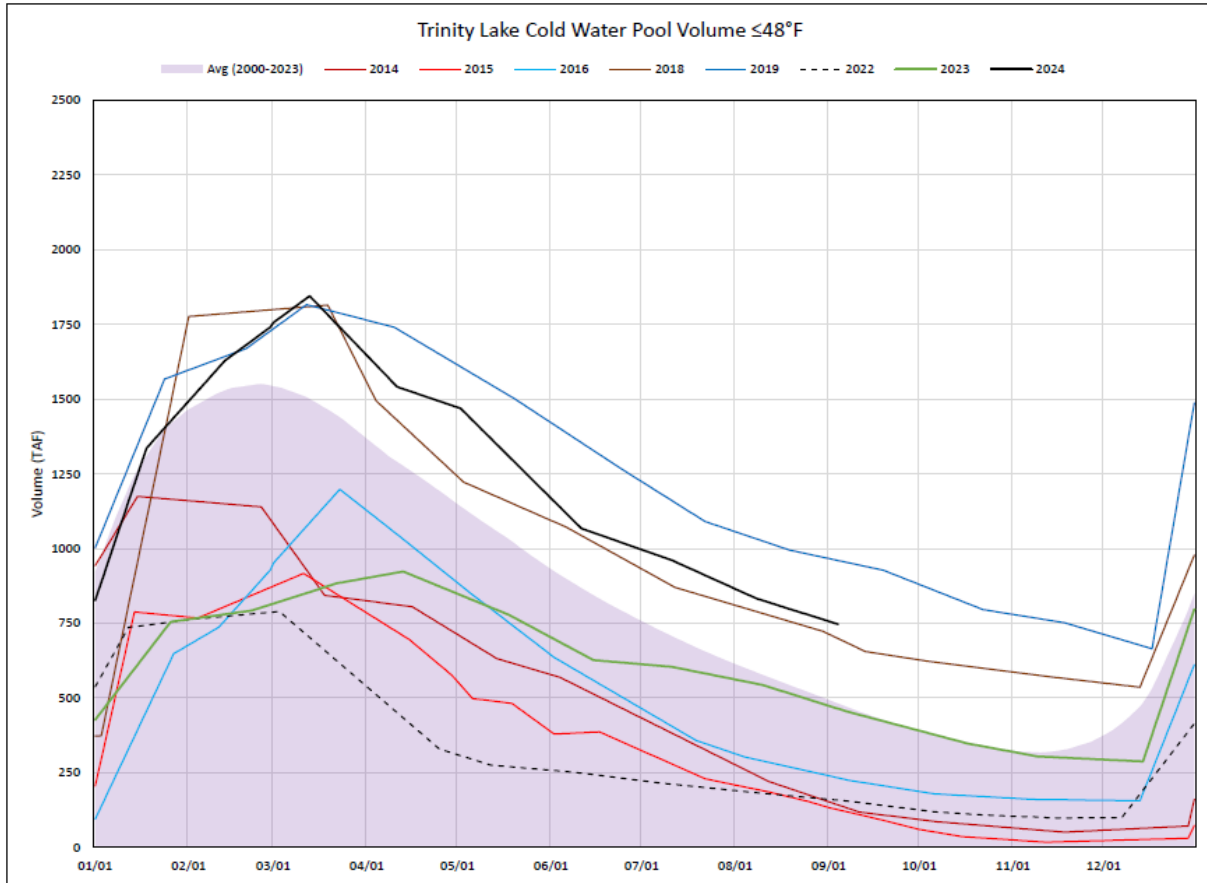


Figure 15: Trinity Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$ - Percent Exceedances (1998-2023)

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.

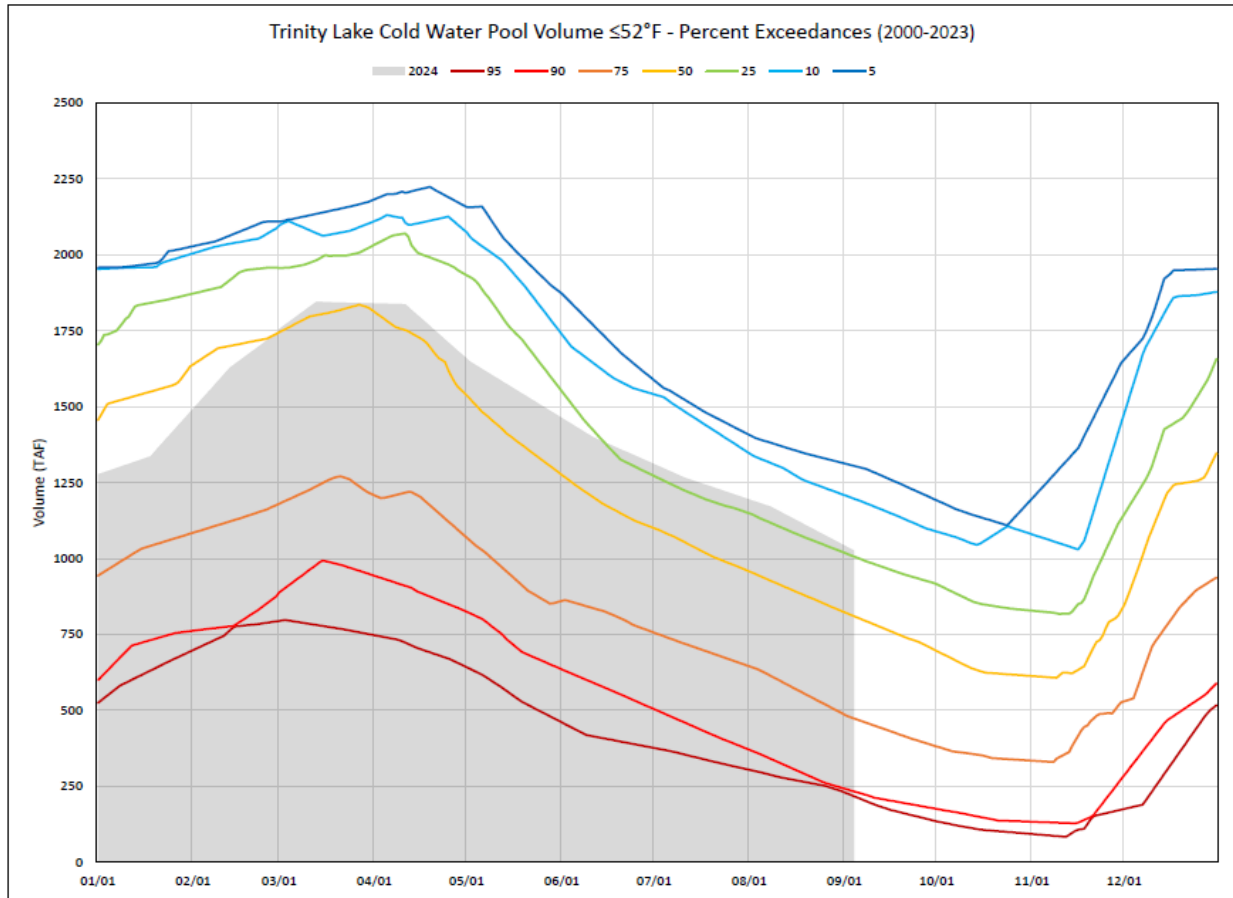


Figure 16: Trinity Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances (1998-2023)

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.

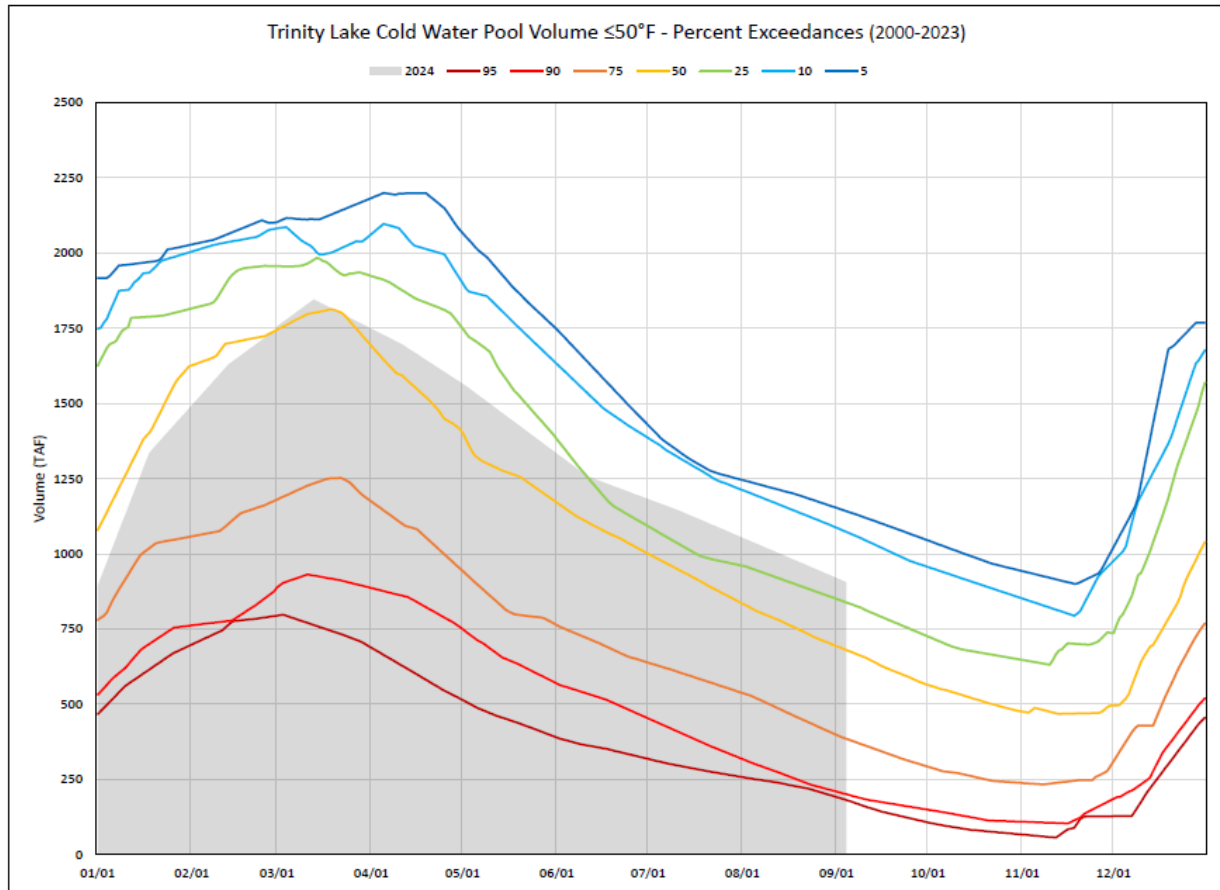


Figure 17: Trinity Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$ - Percent Exceedances (1998-2023)

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.

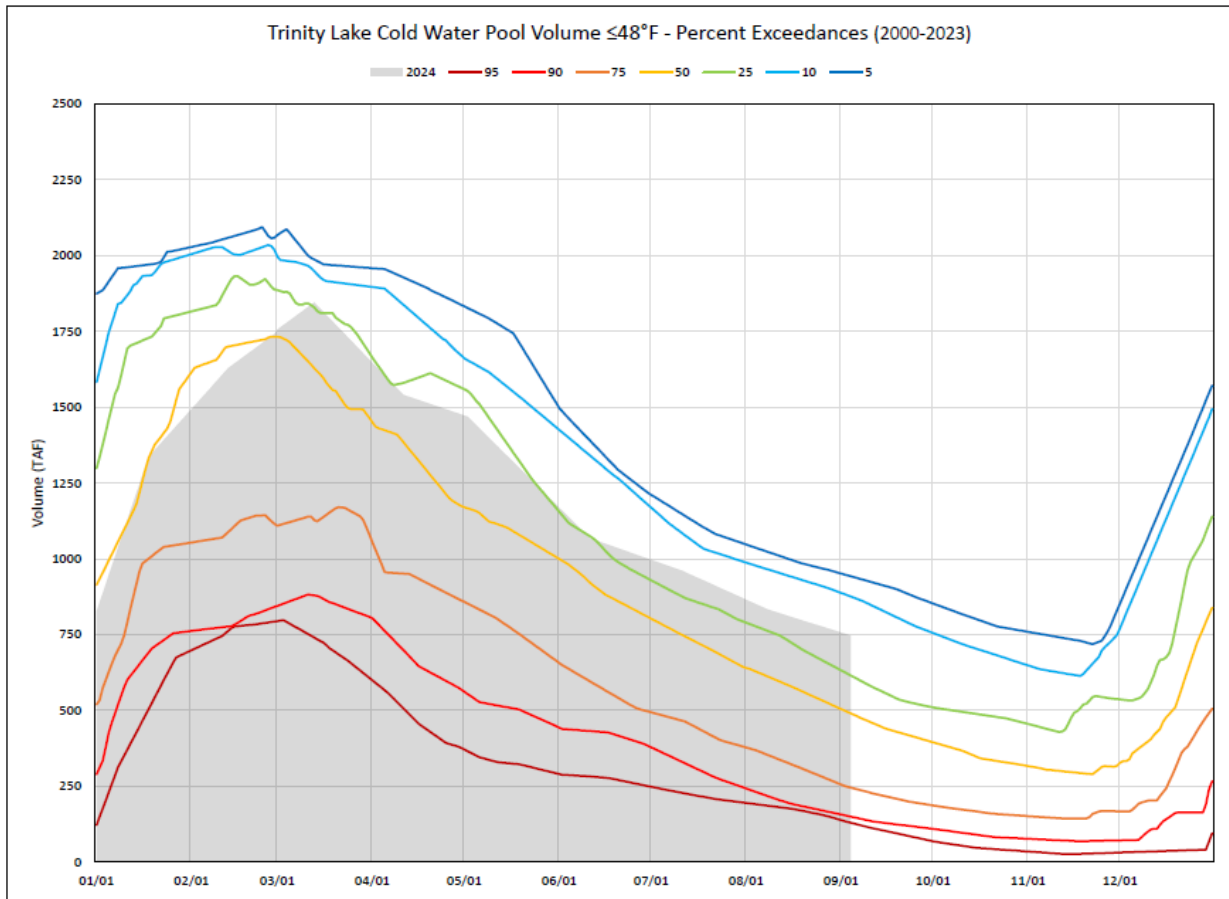


Figure 18: Trinity Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$ - Percent Exceedances (1998-2023)

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.

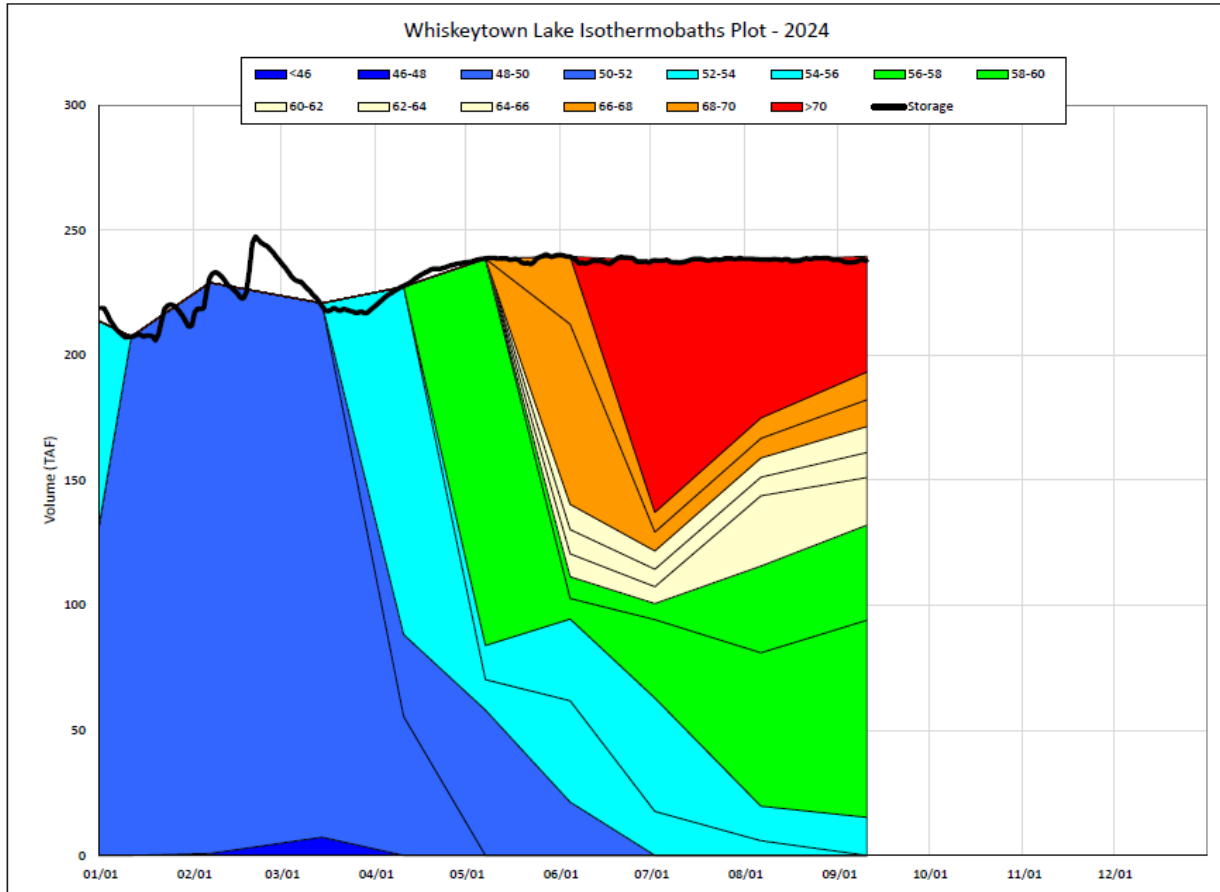


Figure 19: Whiskeytown Lake Isothermobaths Plot – 2024

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

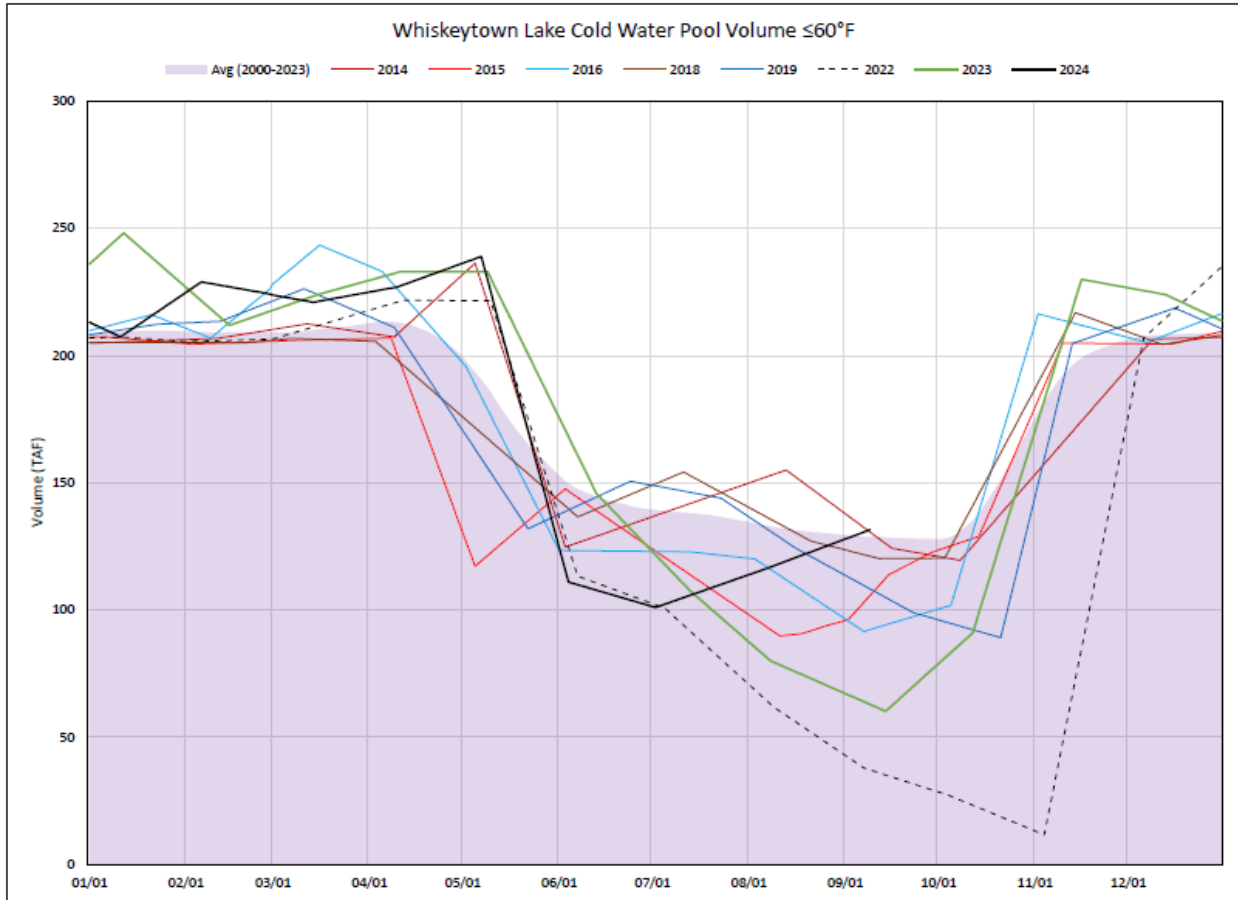


Figure 20: Whiskeytown Lake Cold Water Pool Volume $\leq 60^{\circ}\text{F}$

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

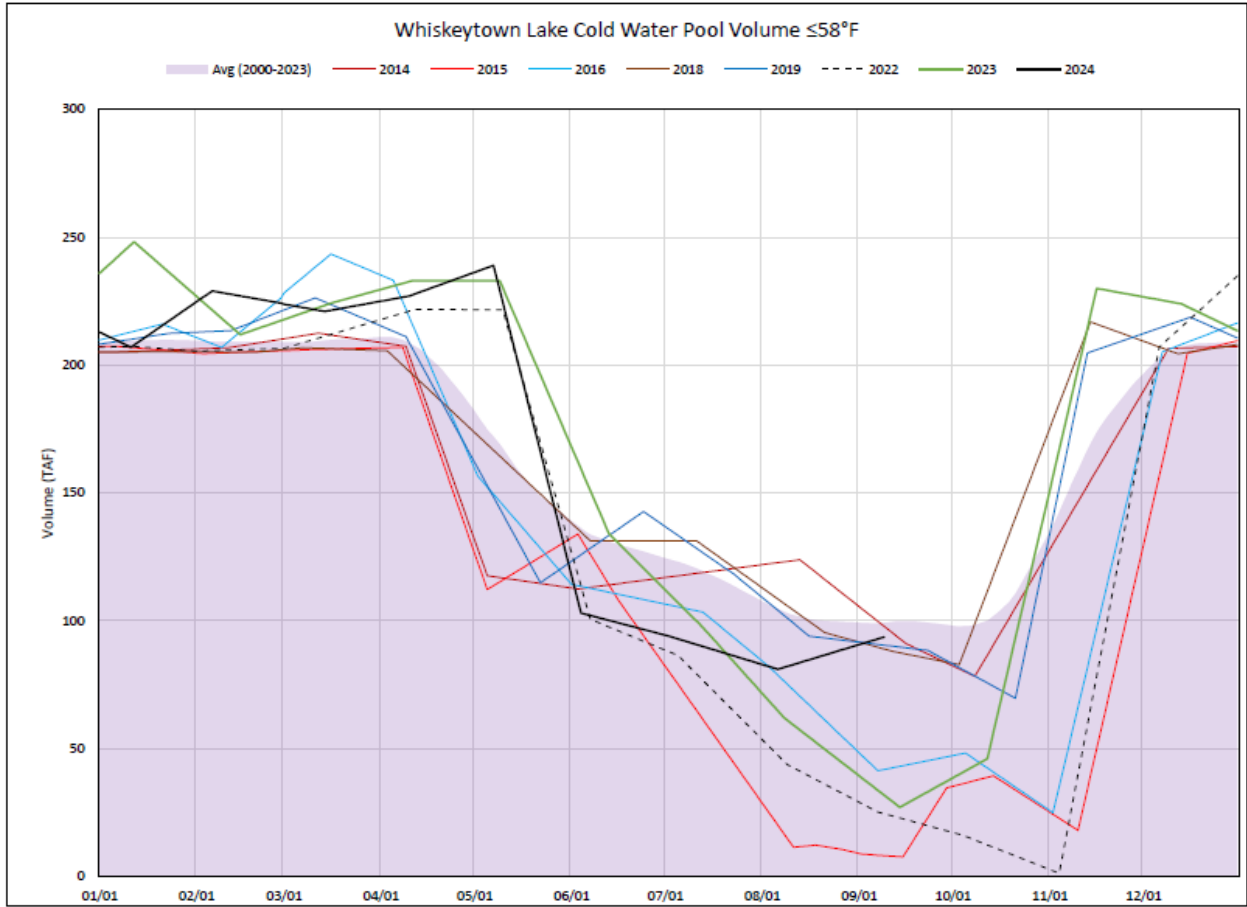


Figure 21: Whiskeytown Lake Cold Water Pool Volume ≤58°F

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

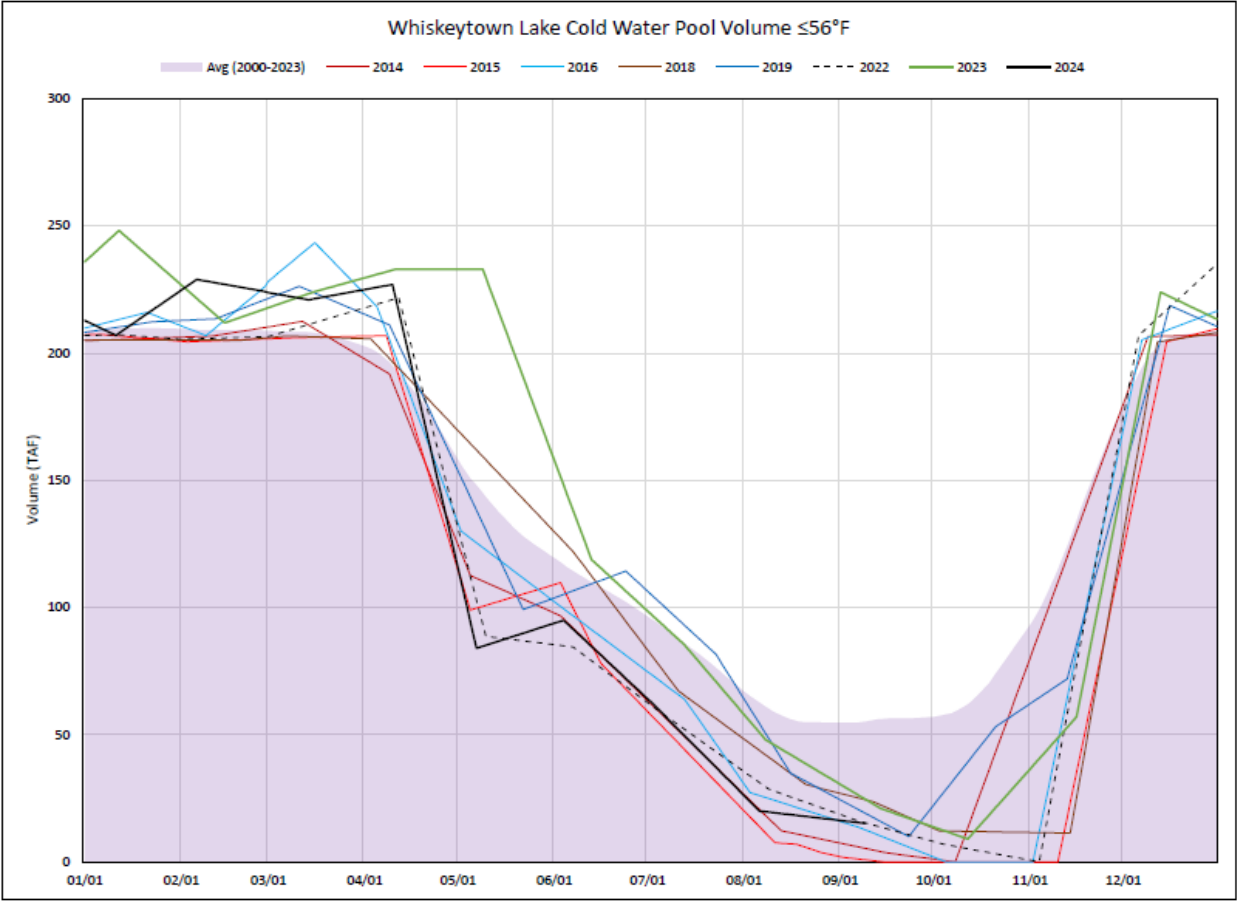


Figure 22: Whiskeytown Lake Cold Water Pool Volume ≤56°F

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

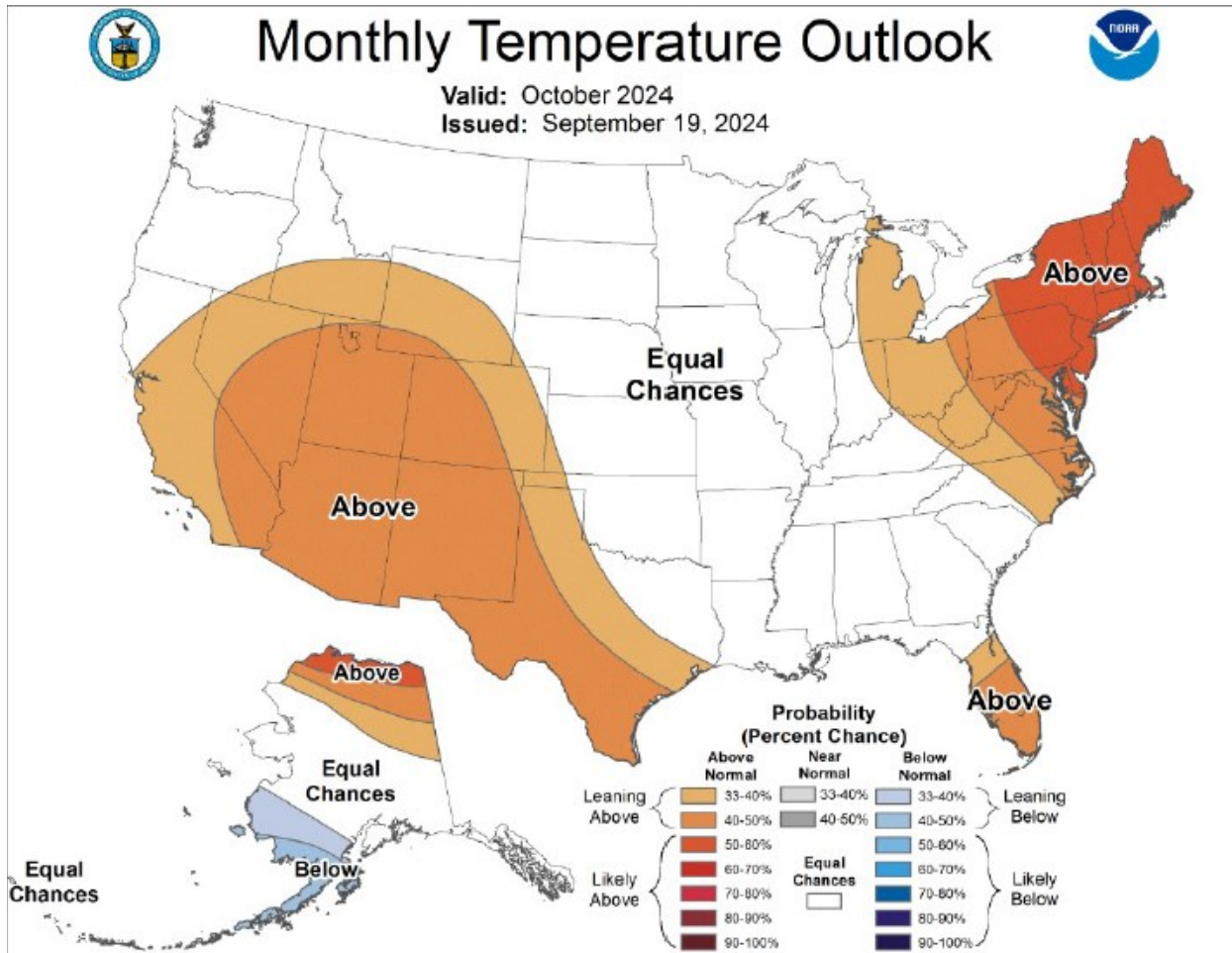


Figure 23: Official Monthly Temperature Outlook

The 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 October 2024 and was issued on September 19, 2024.

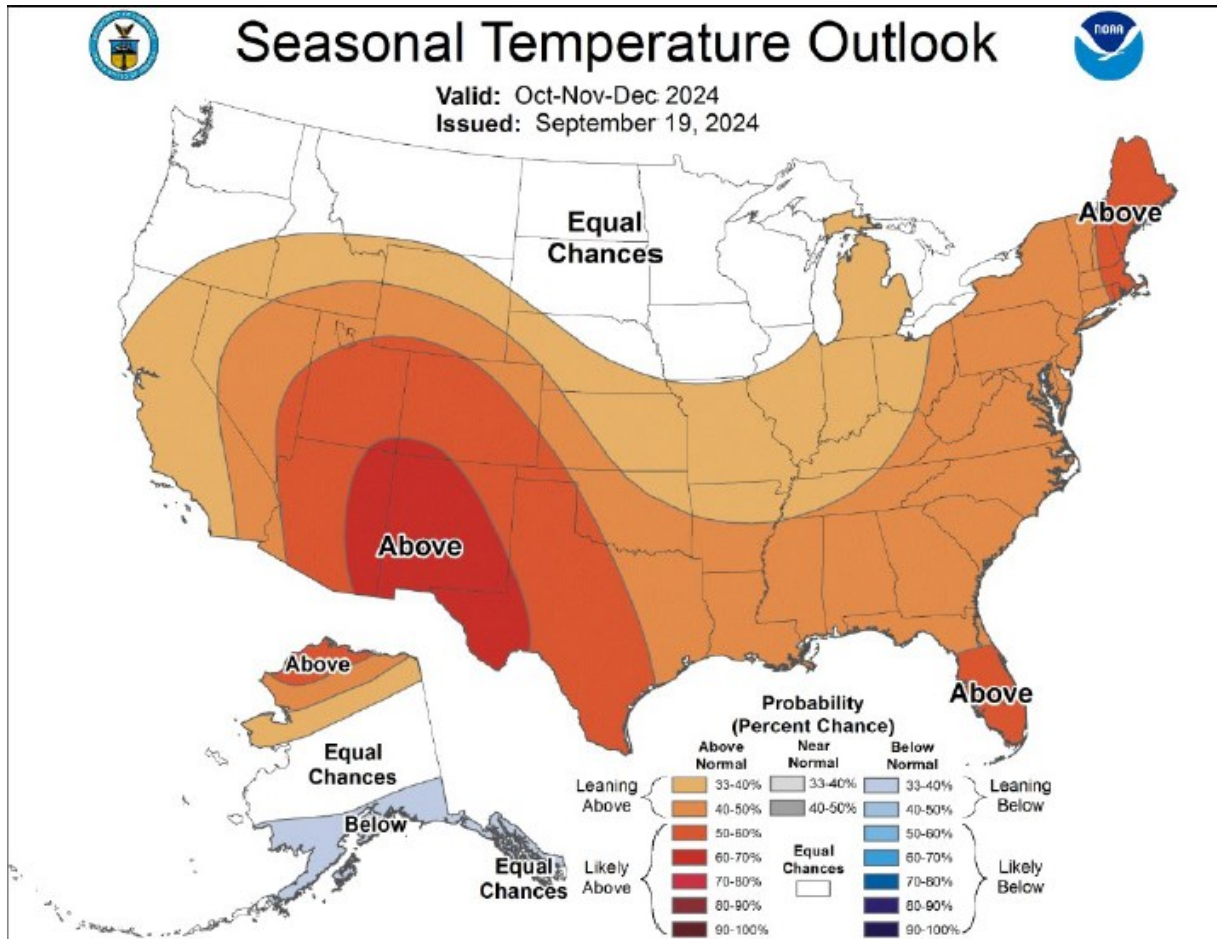


Figure 24: Seasonal Temperature Outlook

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 October to December 2024 and was issued on September 19, 2024.



Seasonal Precipitation Outlook



Valid: Oct-Nov-Dec 2024
Issued: September 19, 2024

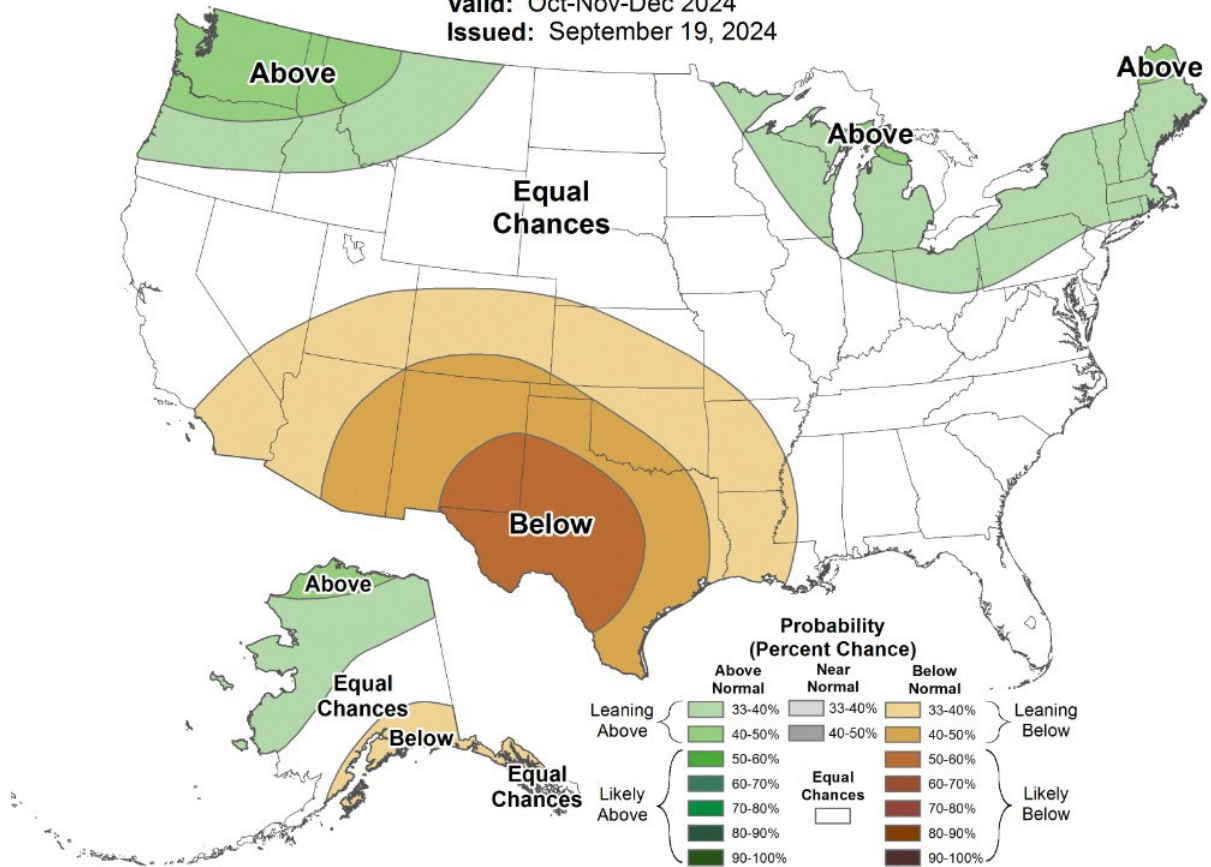


Figure 25: Seasonal Precipitation Outlook

This figure shows a precipitation temperature outlook with the percent probability of near normal, below, or above normal precipitation for all of the United States. The figure is valid from October to December 2024 and was issued on September 19, 2024.



Seasonal Temperature Outlook



Valid: Dec-Jan-Feb 2024-25
Issued: September 19, 2024

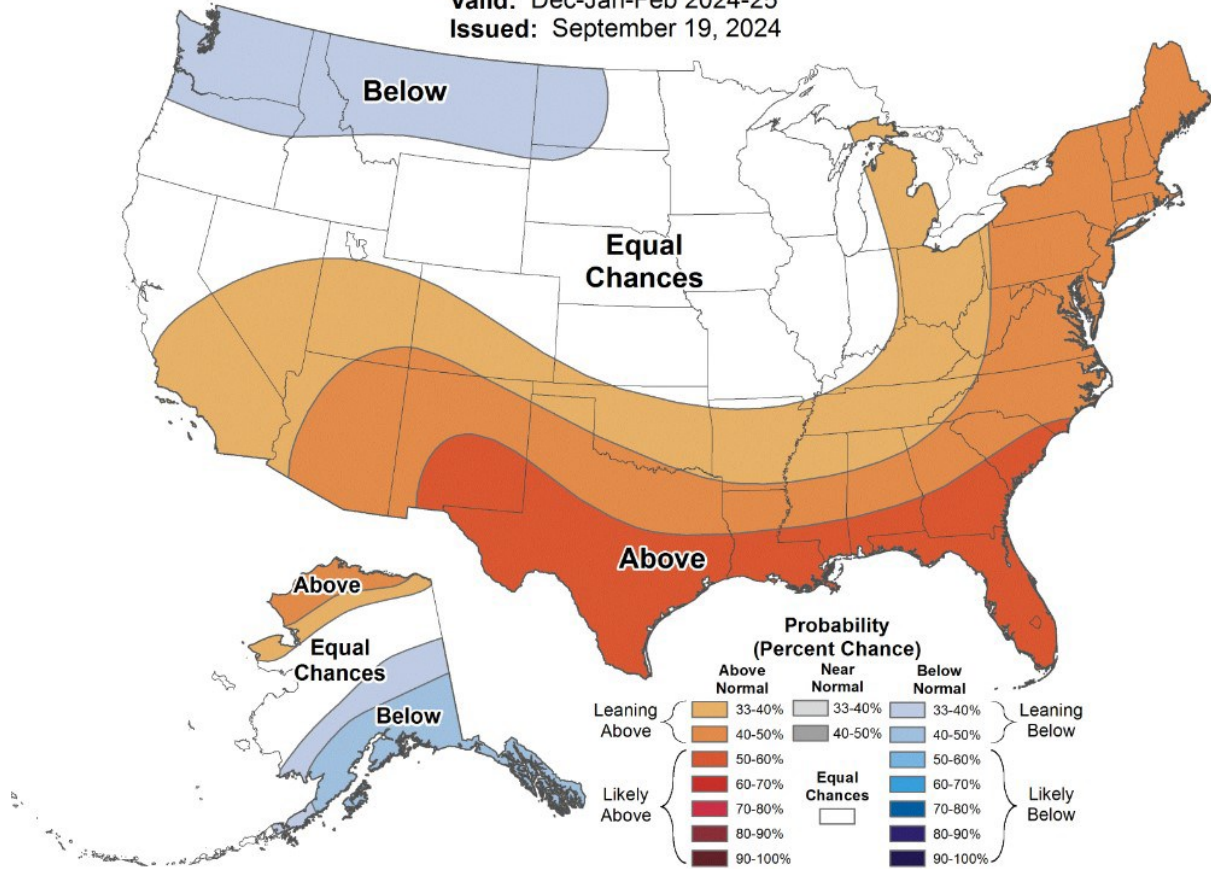


Figure 26: Seasonal Temperature Outlook

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 September 19, 2024.



Seasonal Precipitation Outlook



Valid: Dec-Jan-Feb 2024-25
Issued: September 19, 2024

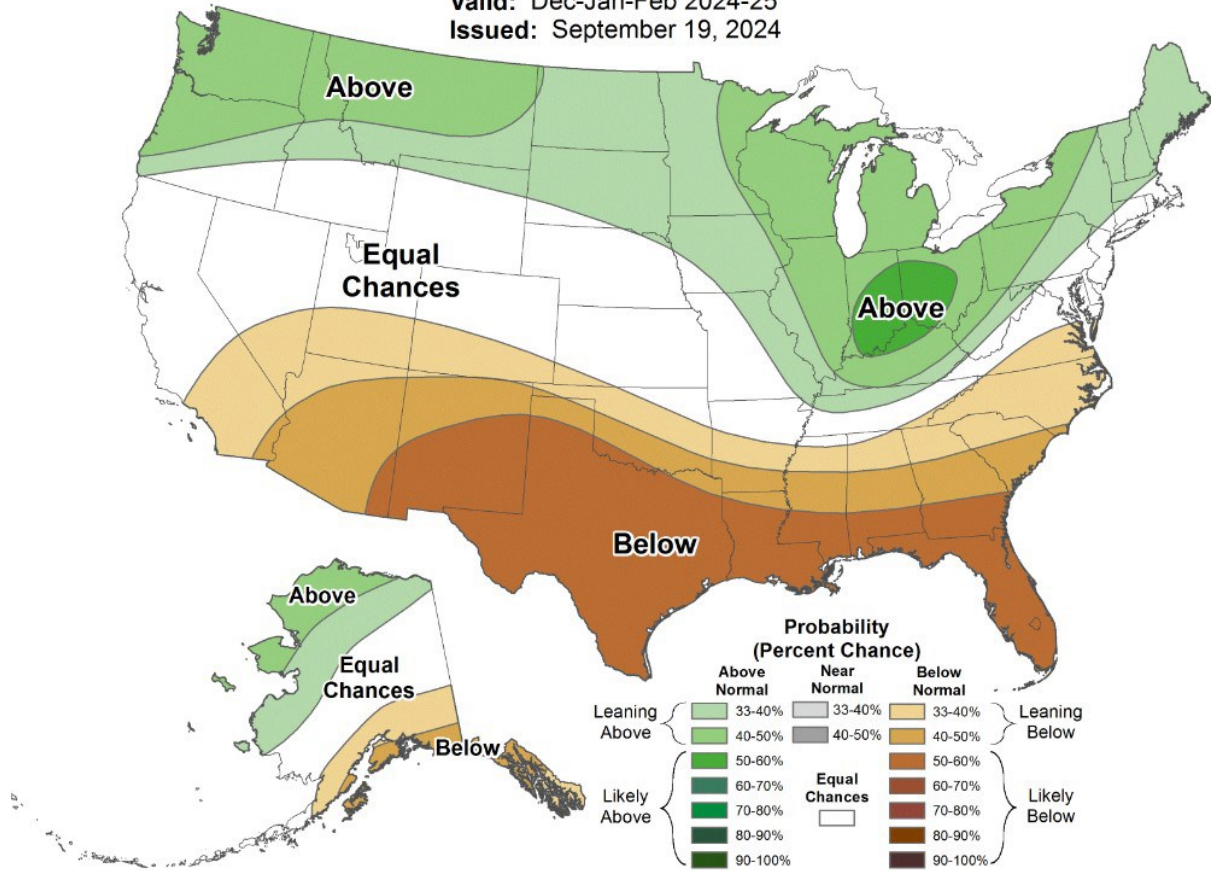


Figure 27: Seasonal Precipitation Outlook

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 September 19, 2024.

Sacramento River Modeled Temperature
2024 September 90%-Exceedance Water Outlook - L3MTO 25% Meteorology
CCR target 53.5 degF

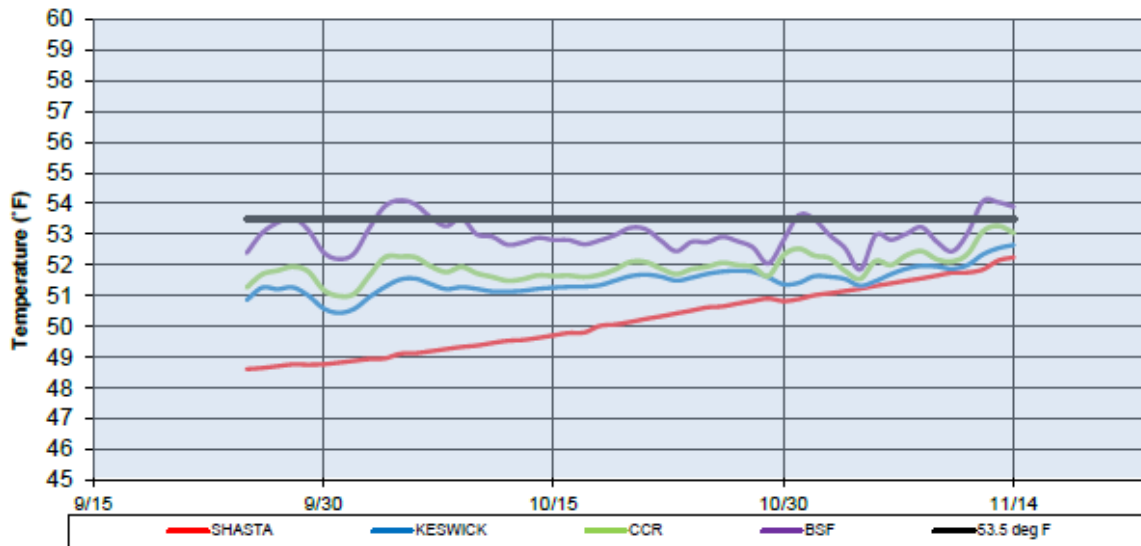


Figure 28: Sacramento River Modeled Temperature – September 2024 90%-Exceedance Water Outlook Historical 25% Meteorology, CCR target 53.5 degrees Fahrenheit.

This figure shows Sacramento River modeled temperature in degrees Fahrenheit at Shasta and Keswick Dams, above Clear Creek, and Balls Ferry from 9/15 to 11/14 in percent exceedances. It also shows the degree range between 45 and 60 degrees Fahrenheit.

Table 10: Facility Temperature Outlook in Degrees Fahrenheit

Month	Shasta	Keswick	CCR	BSF	Igo	Trinity	Lewiston
October	49.9	51.4	51.8	53.0	54.6	45.7	48.0
November	52.2	52.4	52.7	53.1	52.9	45.8	48.4

Legend

A = Denotes period of model limitations.

Run date: 9/25/24

EOM September Storage: 2.76 MAF

Trinity profile date: 9/5/24

Whiskeytown profile date: 9/10/24

Shasta profile date: 9/25/24

Projected side gates: First N/A Full September N/A

End of September Cold-Water-Pool less than 56 degrees Fahrenheit: 824 TAF

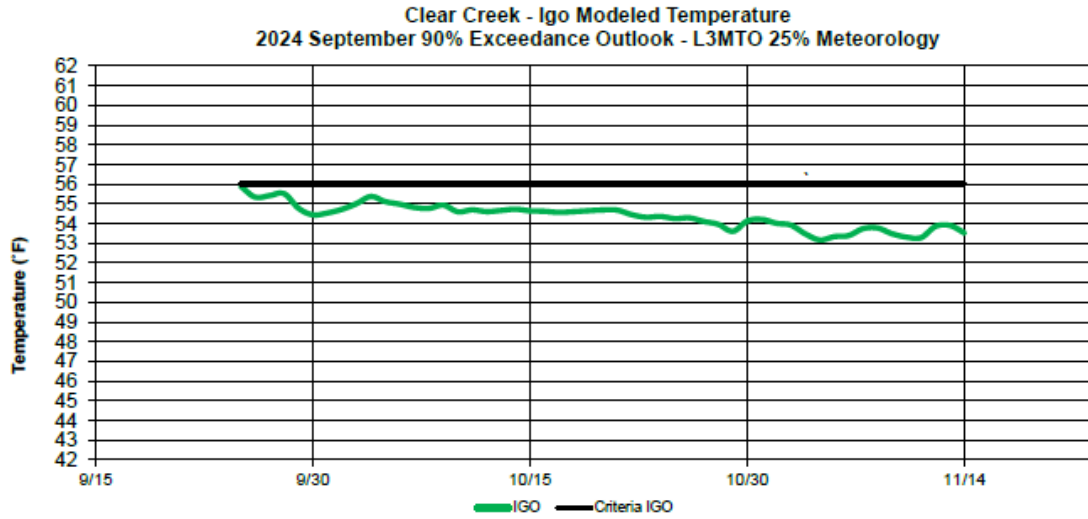


Figure 29: Clear Creek Igo Modeled Temperature – August 2024 90%-Exceedance Water Outlook Historical 25% Meteorology.

This figure is a line graph showing Igo modeled temperature in degrees Fahrenheit at from 9/15 to 11/14.

Table 11: Facility Temperature Outlook in Degrees Fahrenheit

Month	Igo
October	54.6
November	52.9

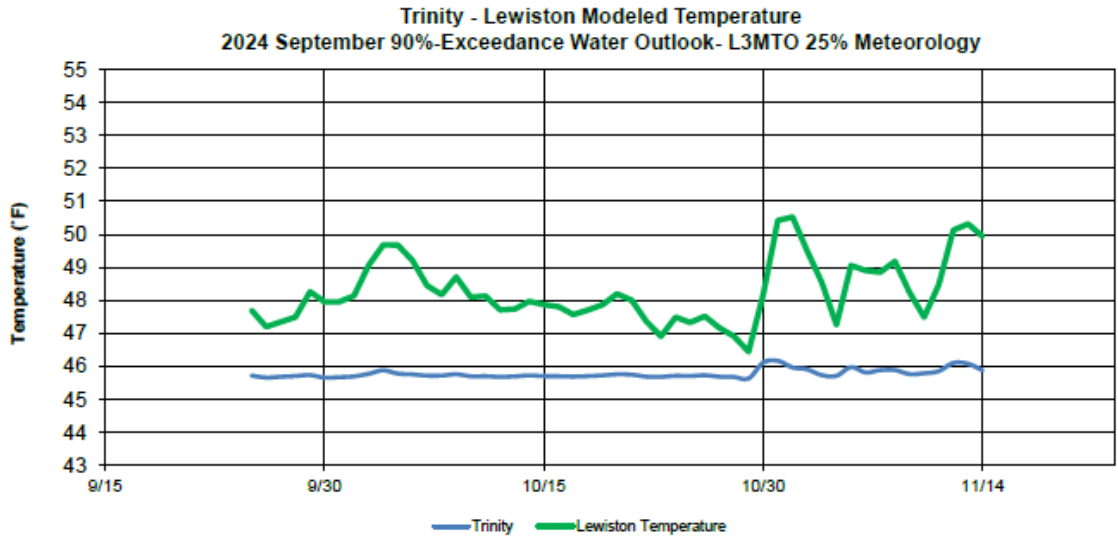


Figure 30: Trinity-Lewiston Modeled Temperature – June 2024 90%-Exceedance Water Outlook Historical 25% Meteorology.

This figure is a line graph showing Trinity - Lewiston modeled temperature in degrees Fahrenheit at from 09/15 to 11/14.

Table 12: Facility Temperature Outlook in Degrees Fahrenheit

Month	Trinity	Lewiston
October	45.7	48.0
November	45.8	48.4

Estimated CVP Operations 50% Exceedance

Table 13: Storages – Federal End of the Month Storage/Elevation (TAF/Feet)

Facility	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Trinity	1825	1687	1666	1678	1716	1780	1891	2019	2123	2055	1971	1842	1698
Trinity Elev.	N/A	2318	2317	2317	2320	2325	2333	2342	2349	2345	2339	2330	2319
Whiskeytown	238	238	206	206	206	206	206	206	238	238	238	238	238
Whiskeytown Elev.	N/A	1209	1199	1199	1199	1199	1199	1199	1209	1209	1209	1209	1209
Shasta	3007	2773	2606	2635	2741	3073	3446	3898	4210	4262	4020	3561	3214
Shasta Elev.	N/A	997	989	991	996	1011	1026	1044	1055	1057	1048	1031	1017
Folsom	506	468	423	397	387	432	556	745	891	955	953	758	632
Folsom Elev.	N/A	412	406	403	401	408	423	444	458	464	464	445	432
New Melones	1866	1821	1762	1774	1791	1826	1883	1963	1934	1999	2018	1941	1870
New Melones Elev.	N/A	1036	1030	1031	1033	1036	1041	1049	1046	1052	1054	1047	1040
Fed. San Luis	418	426	521	637	833	966	966	966	866	653	490	265	151
Fed. 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	N/A
Total	7860	7412	7184	7327	7673	8283	8947	9797	10262	10161	9689	8605	7802

Table 14: State End of the Month Reservoir Storage (TAF)

Facility	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Oroville	2308	1868	1637	1549	1522	1692	2043	2384	2805	2987	2809	2348	1894
Oroville Elev.	N/A	770	746	736	733	752	787	817	850	863	850	814	772
State San Luis	512	723	818	961	974	1062	1062	1062	969	775	628	610	733
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	N/A
Total San Luis (TAF)	930	1149	1339	1599	1806	2028	2028	2028	1836	1428	1118	876	883
Total San Luis Elev.	N/A	467	485	508	525	543	543	543	528	493	464	440	441

Table 15: Monthly River Releases (TAF/cfs)

Facility	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Trinity (TAF)	N/A	52	23	18	18	18	17	18	80	258	126	68	53
Trinity (cfs)	N/A	870	373	300	300	300	300	300	1,347	4,189	2,120	1,102	857

Facility	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Clear Creek (TAF)	N/A	9	12	12	12	12	11	22	12	18	14	9	9
Clear Creek (cfs)	N/A	150	200	200	200	200	200	363	200	291	242	150	150
Sacramento (TAF)	N/A	476	430	268	277	277	389	369	297	434	535	738	584
Sacramento (cfs)	N/A	8000	7000	4500	4500	4500	7000	6000	5000	7061	9000	12000	9500
American (TAF)	N/A	116	126	119	123	108	139	123	280	400	149	314	195
American (cfs)	N/A	1955	2044	2007	2000	1750	2500	2000	4700	6500	2500	5100	3178
Stanislaus (TAF)	N/A	15	48	12	12	14	13	12	91	76	22	15	15
Stanislaus (cfs)	N/A	250	774	200	200	226	229	200	1537	1242	363	250	250
Feather (TAF)	N/A	518	246	104	108	108	97	108	104	108	292	430	430
Feather (cfs)	N/A	8700	4000	1750	1750	1750	1750	1750	1750	1750	4900	7000	7000

Table 16: Trinity Diversions (TAF)

Diversion Facility	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Carr PP	N/A	89	8	0	1	1	1	1	20	24	69	79	90
Spring Creek PP	N/A	80	30	0	4	23	34	16	0	20	60	70	80

Table 17: Delta Summary (TAF)

Facility	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Tracy	N/A	260	242	210	258	194	98	114	57	58	224	258	260
USBR Banks	N/A	0	22	22	22	0	0	0	0	0	0	0	0
Contra Costa	N/A	14.0	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	274	278	248	298	208	112	127	69	71	234	269	273
State Export	N/A	403	276	296	123	217	121	104	33	35	156	343	381
Total Export	N/A	677	554	544	421	425	233	231	102	106	390	612	654
COA Balance	N/A	-10	0	0	0	0	0	0	0	0	0	0	0
Vernalis (TAF)	N/A	74	126	99	103	119	237	249	255	352	172	80	65
Vernalis (cfs)	N/A	1242	2043	1662	1680	1934	4263	4055	4278	5718	2885	1307	1063
Old/Middle River calc.	N/A	-8,794	-6,610	-6,883	-5,107	-5,043	-1,903	-1,655	15	656	-4,337	-7,669	-8,300
Computed DOI	N/A	7497	7499	4505	11485	16381	29195	27817	20071	18333	7884	8004	4002
Excess Outflow	N/A	0	0	0	6979	10379	17794	16414	8674	10834	0	0	0
% Export/Inflow	N/A	51%	48%	61%	36%	30%	12%	11%	7%	7%	36%	44%	56%
% Export/inflow std.	N/A	65%	65%	65%	65%	65%	45%	35%	35%	35%	35%	65%	65%

Table 18: Hydrology

Statistic	Trinity	Shasta	Folsom	New Melones
Water Year Inflow (TAF)	1,540	5,628	2,352	961
Year to Date + Forecasted % of mean	127%	102%	86%	91%

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

Facility	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Trinity	1825	1683	1640	1642	1663	1675	1711	1777	1847	1799	1712	1595	1430
Trinity Elev.	N/A	2318	2314	2315	2316	2317	2320	2325	2330	2327	2320	2311	2297
Whiskeytown	238	238	206	206	206	206	206	206	238	238	238	238	238
Whiskeytown Elev.	N/A	1209	1199	1199	1199	1199	1199	1199	1209	1209	1209	1209	1209
Shasta	3007	2761	2594	2585	2657	2728	2855	3094	3119	2912	2654	2324	1976
Shasta Elev.	N/A	997	989	988	992	995	1001	1012	1013	1004	992	975	956
Folsom	506	462	410	334	274	276	323	434	569	628	592	529	446
Folsom Elev.	N/A	412	405	393	382	383	391	408	425	432	428	420	410
New Melones	1866	1808	1744	1751	1758	1763	1765	1785	1718	1650	1570	1492	1419
New Melones Elev.	N/A	1034	1028	1029	1030	1030	1030	1032	1026	1019	1011	1002	994
Fed. San Luis	418	443	463	533	665	833	790	776	725	584	375	160	126
Fed. 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	N/A
Total	7860	7395	7057	7050	7224	7480	7650	8072	8217	7812	7140	6338	5635

Table 20: State End of the Month Reservoir Storage (TAF)

Facility	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Oroville	2308	1857	1625	1538	1511	1531	1632	1803	1982	1956	1658	1324	1006
Oroville Elev.	N/A	769	745	735	732	734	745	763	781	779	748	709	665
State San Luis	512	672	730	781	924	971	967	1062	990	832	602	362	267
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	N/A
Total San Luis (TAF)	930	1114	1192	1314	1589	1805	1757	1838	1715	1416	977	522	393
Total San Luis Elev.	N/A	464	471	483	507	525	521	528	518	492	450	400	383

Table 21: Monthly River Releases (TAF/cfs)

Facility	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Trinity (TAF)	N/A	52	23	18	18	18	17	18	36	180	47	28	53
Trinity (cfs)	N/A	870	373	300	300	300	300	300	600	2,924	783	450	857

Facility	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Clear Creek (TAF)	N/A	9	12	12	12	12	11	22	12	18	13	9	9
Clear Creek (cfs)	N/A	150	200	200	200	200	200	363	200	296	224	150	150
Sacramento (TAF)	N/A	488	430	256	246	246	250	277	416	535	565	615	615
Sacramento (cfs)	N/A	8200	7000	4300	4000	4000	4500	4500	7000	8700	9500	10000	10000
American (TAF)	N/A	113	93	119	123	61	56	62	71	116	109	123	123
American (cfs)	N/A	1900	1507	2005	2000	1000	1001	1010	1188	1889	1828	2000	2006
Stanislaus (TAF)	N/A	15	48	12	12	14	12	12	46	39	12	12	18
Stanislaus (cfs)	N/A	250	774	200	200	226	221	200	767	631	200	200	300
Feather (TAF)	N/A	506	246	104	108	108	97	108	104	108	286	246	246
Feather (cfs)	N/A	8500	4000	1750	1750	1750	1750	1750	1750	1750	4800	4000	4000

Table 22: Trinity Diversions (TAF)

Diversion Facility	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Carr PP	N/A	90	28	0	1	1	1	1	29	12	91	110	111
Spring Creek PP	N/A	80	50	0	0	0	0	0	0	0	80	100	100

Table 23: Delta Summary (TAF)

Facility	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Tracy	N/A	250	164	160	192	225	51	72	57	58	50	106	224
USBR Banks	N/A	0	22	22	22	0	0	0	0	0	0	0	0
Contra Costa	N/A	12.0	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	262	200	196	228	239	65	84	69	70	60	117	236
State Export	N/A	321	211	181	225	155	97	182	33	34	24	77	123
Total Export	N/A	583	411	377	453	394	162	266	101	104	84	194	359
COA Balance	N/A	0	0	0	0	0	0	-2	6	43	4	-2	-2
Vernalis (TAF)	N/A	57	107	74	75	77	82	98	103	100	43	45	46
Vernalis (cfs)	N/A	956	1734	1242	1225	1251	1482	1599	1725	1631	721	737	755
Old/Middle River calc.	N/A	-7,706	-4,958	-4,911	-5,713	-4,962	-2,170	-3,202	-1,124	-1,161	-1,353	-2,688	-4,747
Computed DOI	N/A	8438	7499	4505	4506	8117	11400	11403	9497	7499	7110	4506	4506
Excess Outflow	N/A	925	0	0	0	3611	0	0	0	0	0	0	0
% Export/Inflow	N/A	46%	41%	53%	58%	45%	19%	27%	12%	13%	10%	25%	40%
% Export/inflow std.	N/A	65%	65%	65%	65%	65%	45%	35%	35%	35%	35%	65%	65%

Table 24: Hydrology

Statistic	Trinity	Shasta	Folsom	New Melones
Water Year Inflow (TAF)	1,537	5,628	2,343	948
Year to Date + Forecasted % of mean	127%	102%	86%	90%

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