



Sacramento River Temperature Task Group Meeting Packet

August 22, 2024

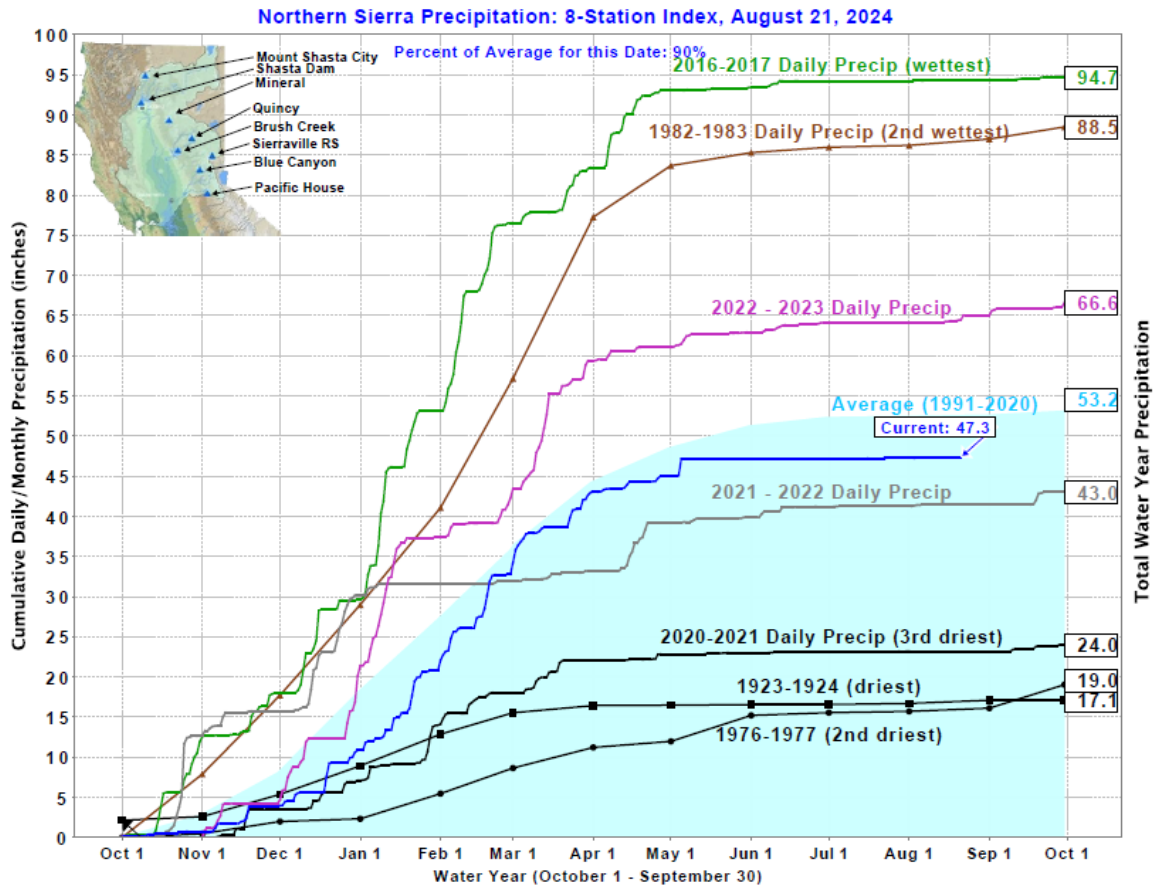


Figure 1: Northern Sierra Precipitation: 8-Station Index, August 21, 2024

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

August 20, 2024

Run Date: August 21, 2024

Table 1: Reservoir Releases in Cubic Feet Per Second

Reservoir	Dam	WY 2023	WY 2024	15-Year Median
Trinity	Lewiston	1,270	448	456
Sacramento	Keswick	9,644	11,504	9,531
Feather	Oroville (SWP)	4,500	8,000	5,500
American	Nimbus	4,031	3,183	2,750
Stanislaus	Goodwin	920	254	254
San Joaquin	Friant	352	434	352

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	1,469	1,366	1,861	127
Shasta	4,552	2,768	3,641	3,144	114
Folsom	977	544	773	532	98
New Melones	2,420	1,377	1,960	1,887	137
Fed. San Luis	966	316	800	427	135
Total North CVP	11,363	6,473	8,540	7,851	121
Millerton	521	308	384	269	87
Oroville (SWP)	3,538	1,980	2,982	2,450	124

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	1,523	678	1,982	1,094	139
Shasta	5,389	3,305	8,698	4,597	117
Folsom	2,215	1,043	5,915	2,561	86
New Melones	908	N/A	2,103	1,031	88
Millerton	1,766	705	2,885	1,617	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	35.60	23.83	40.07	30.02 (64)	118	0.00
Sacramento at Shasta Dam	63.76	38.35	86.50	58.88 (69)	108	0.00
American at Blue Canyon	50.63	3.53	113.32	63.89 (50)	79	0.00
Stanislaus at New Melones	28.92	N/A	36.75	26.83 (47)	108	0.00
San Joaquin at Huntington LK	32.28	12.00	67.10	40.03 (51)	81	0.00

Shasta TCD Configuration

Starting Date: 8/15/2024

Ending Date: Current

Profile data collected 08/14/2024

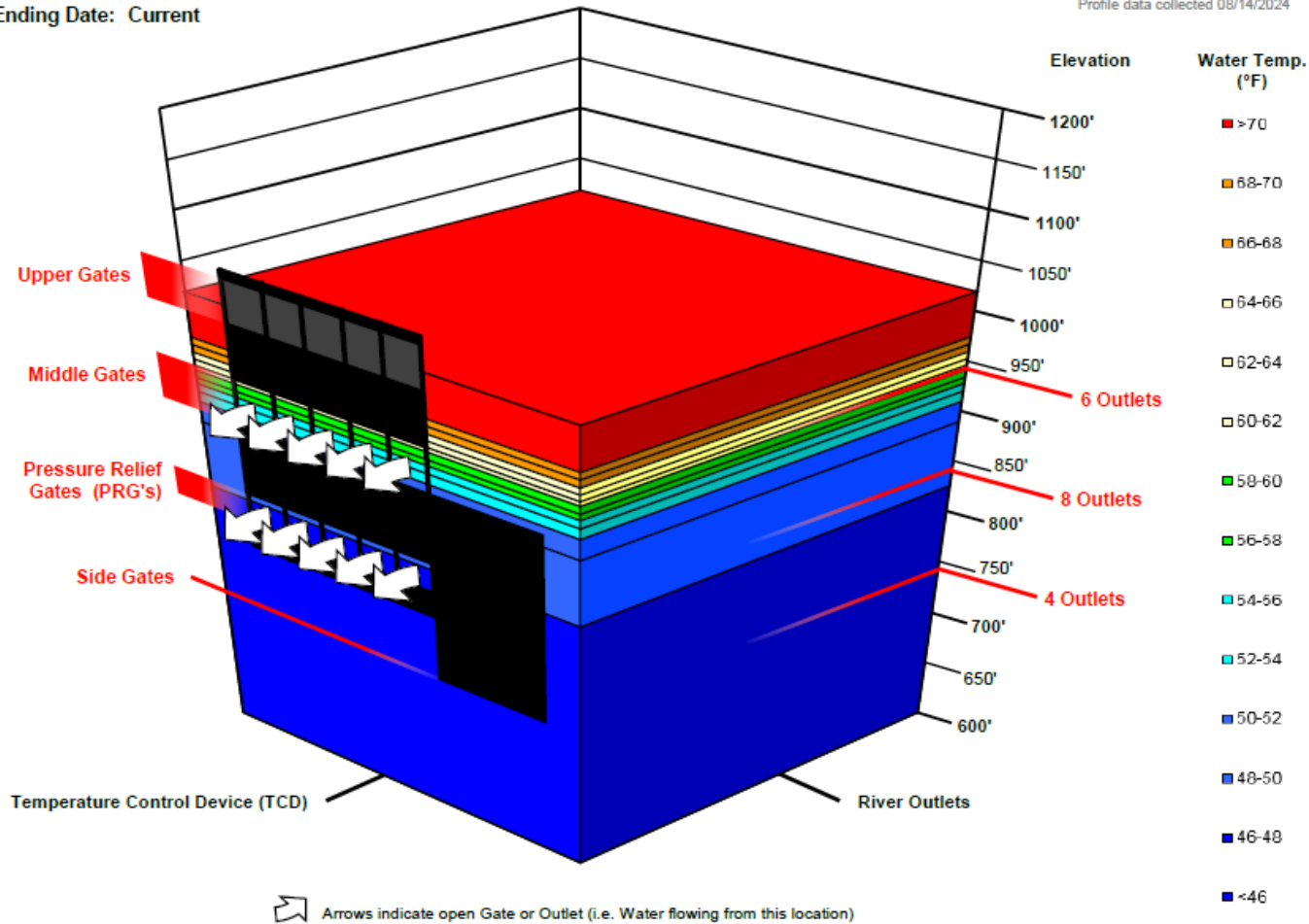


Figure 2: Shasta Temperature Control Device Configuration, August 15, 2024

This figure represents the Shasta Reservoir Temperature Control Device (TCD) configuration. It shows lake elevation between 600 and 1200 feet and volume of water temperature between 46 and 70 degrees Fahrenheit. The figure also show which Upper, Middle, Pressure Relief, and Side gates are open.

Table 6: 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
Jul	50.7	50.7	57.0	57.0	52.6	53.3	54.9	56.4	57.8	58.1	50.4	57.7	63.0	11457	1185	13246	89.8	83.3	83.8
08/01	51.2 X	50.7	57.0	52.2	52.6	53.3	54.9	56.4	58.0	59.2	50.2	58.5	64.3	11658	1199	13006	88.5	80.6	81.3
08/02	51.1	50.5	57.0	52.2	52.6	53.2	54.7	56.2	57.9	59.0	50.5	58.1	64.1	10949	1238	13025	89.0	81.5	83.2
08/03	51.3	50.7	57.1	51.9	52.3	52.8	54.0	55.5	57.2	58.0	50.5	58.0	63.8	12101	1285	12990	88.0	81.0	83.3
08/04	51.3	50.7	57.1	52.0	52.4	53.1	54.6	55.9	57.1	59.4	50.2	58.7	64.0	11215	1263	12604	89.5	82.3	83.6
08/05	51.4 X	50.9	57.2	52.3	52.8	53.5	55.1	56.7	58.4	58.9	50.2	59.9	65.5	10610	1389	12743	86.0	79.1	79.0
08/06	51.2 X	50.6	57.2	52.4	52.8	53.4	54.9	56.4	58.0	58.7	50.6	59.1	65.3	11037	1240	12884	84.0	77.5	78.9
08/07	51.1	50.4	57.2	52.1	52.6	53.2	54.7	56.1	57.8	58.6	50.5	59.1	65.2	10855	1237	12826	85.5	78.5	80.6
08/08	51.3	50.4	57.3	52.1	52.5	53.2	54.7	56.1	57.8	58.8	50.6	59.4	65.3	10619	1234	12155	85.5	78.9	78.7
08/09	51.2	50.7	57.3	52.2	52.7	53.4	54.9	56.5	58.2	58.9	50.6	59.4	65.1	10451	1235	12077	85.5	79.6	79.4
08/10	51.4	50.7	57.3	52.4	52.8	53.5	55.1	56.6	58.2	59.0	50.6	59.1	64.8	10489	1168	12075	84.5	78.6	78.8
08/11	51.5	50.7	57.3	52.4	52.8	53.5	55.1	56.6	58.4	59.0	50.6	59.1	64.8	10314	1222	12076	84.0	78.0	78.5
08/12	51.4 X	50.6	57.4	52.5	52.9	53.7	55.3	56.8	58.5	59.0	50.6	59.3	64.7	10518	1260	12074	81.0	75.3	75.4
08/13	51.4	50.5	57.4	52.3	52.8	53.5	55.1	56.6	58.3	58.3	50.7	58.1	63.2	10255	1227	12074	80.5	76.9	75.8
08/14	51.3	50.5	57.5	52.2	52.6	53.3 C	N/A	56.2	57.9	58.5	50.6	58.3	63.3	10357	971	12077	81.5	N/A	76.9
08/15	51.2 X	50.4	57.5	52.3	52.7	53.5 C	N/A	56.3	57.9	58.8	50.6	58.7	63.5	10492	1236	11626	80.0	N/A	78.3
08/16	51.0	50.2	57.5	52.3	52.7	53.5	54.9	56.5	58.1	59.1	51.0	58.3	63.7	9634	1616	11629	81.0	75.6	76.5
08/17	51.3	50.4	57.5	52.2	52.6	53.2	54.7	56.6	58.4	58.1	50.7	57.6	62.2	10316	1272	11570	75.5	72.7	73.6
08/18	51.1	50.3	57.5	52.1	52.5	53.2	54.6	55.9	57.7	58.3	50.4	57.1	61.4	9804	1258	11554	75.0	71.7	71.0
08/19	51.3	50.5	57.5	52.2	52.6	53.3	54.6	55.8	57.3	58.2	50.1	57.5	62.3	10145	1220	11464	75.0	69.3	71.5
08/20	51.4	50.5	57.4	52.2	52.6	53.3	54.6	55.8	57.3	58.2	50.1	57.0	62.3	10143	1225	11504	78.0	72.1	73.3
Aug	51.3	50.5	57.3	52.2	52.6	53.3	54.8	56.3	57.9	58.7	50.5	58.5	63.9	10598	1250	12202	82.9	77.2	77.9
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	211962	24995	244033	N/A	N/A	N/A

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
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	420418	49577	484029	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.

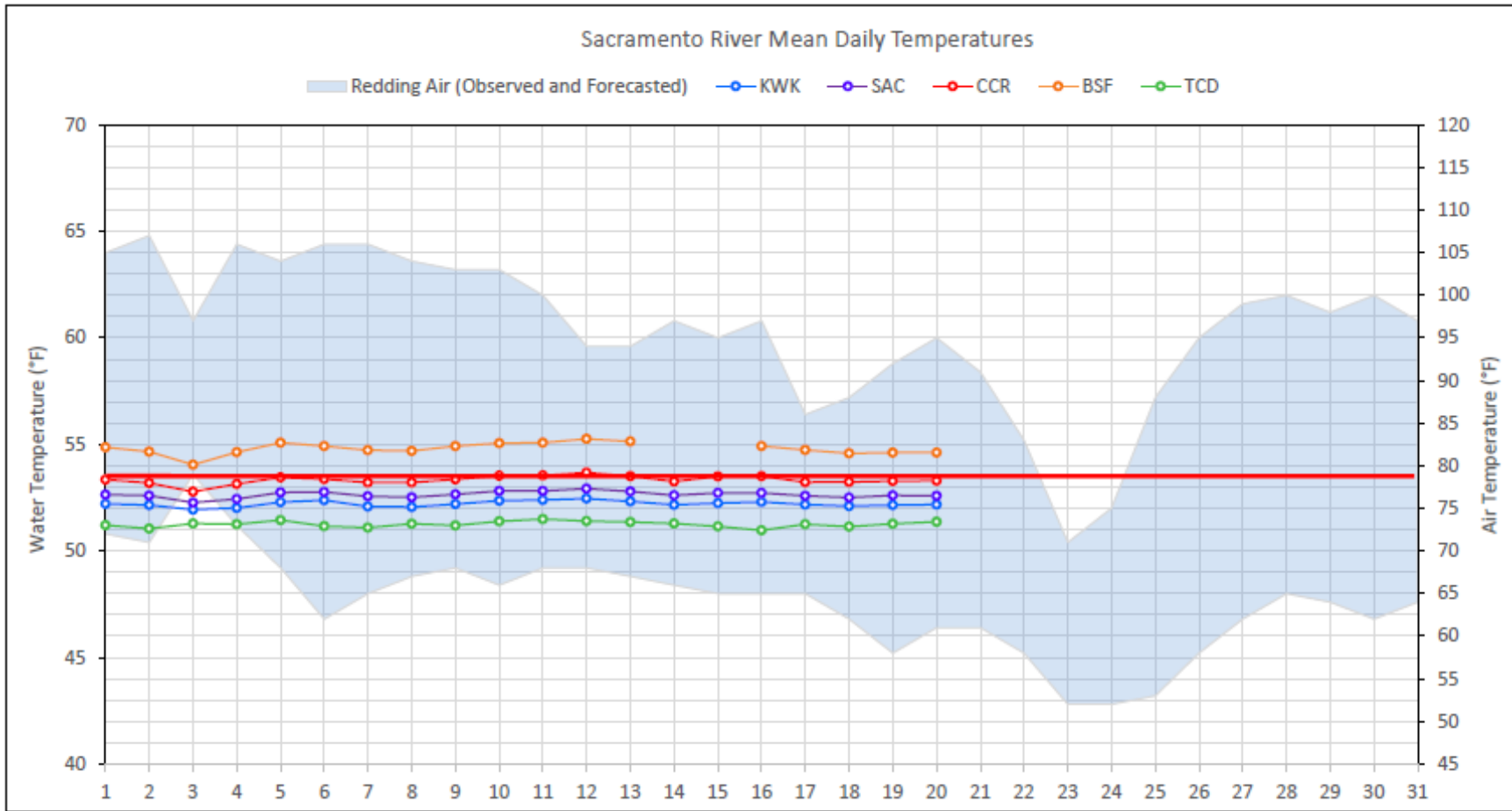


Figure 3: Sacramento River Mean Daily Temperatures

This figure shows mean Sacramento River daily temperatures in degrees Fahrenheit at Shasta Power Plant and various stations 0.8, 4.8, 9.7, 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 7: 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 8: 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

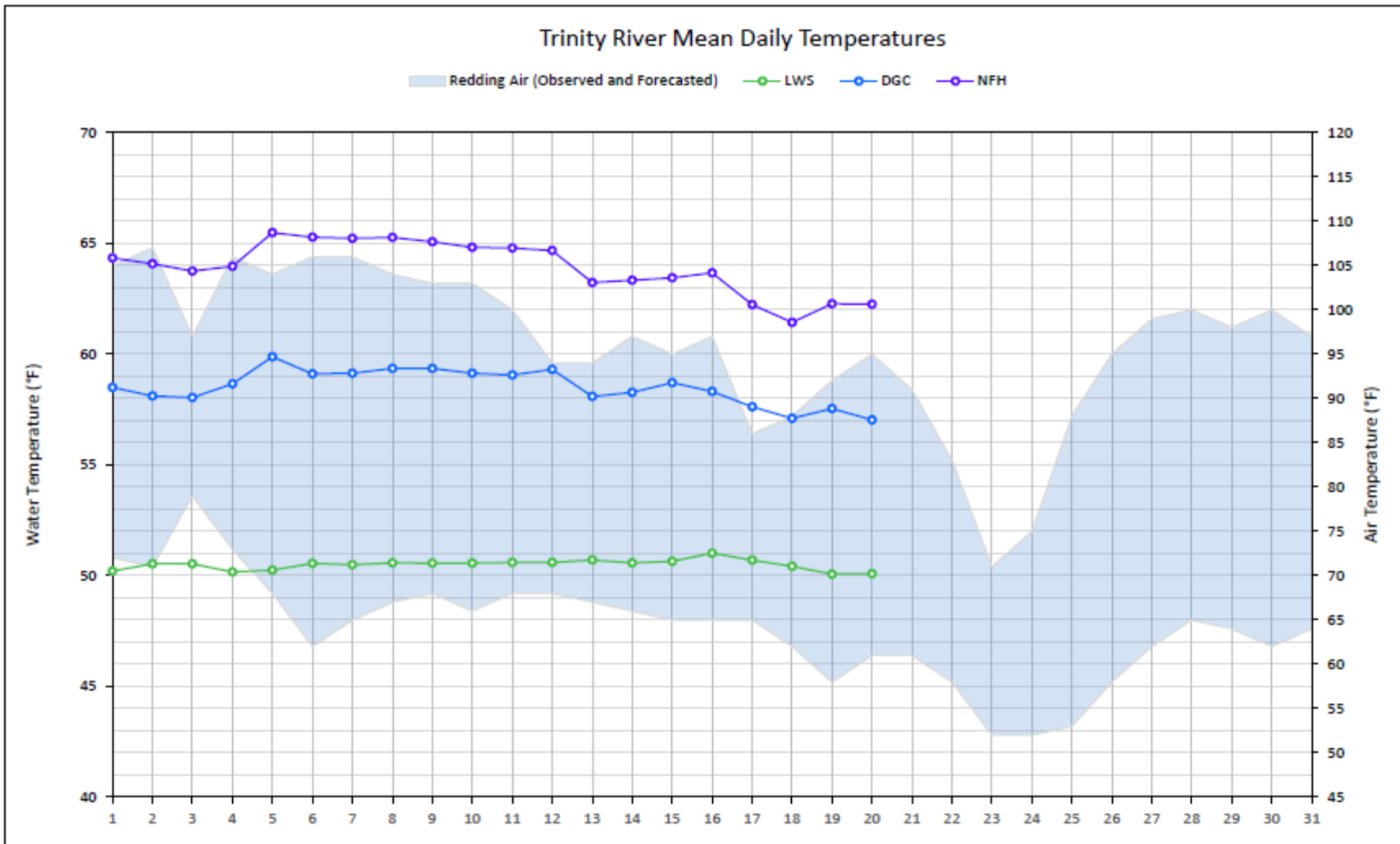


Figure 4: Trinity River Mean Daily Temperatures

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 9: 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
NEH	Trinity River	38 miles downstream of Lewiston Dam

Table 10: 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

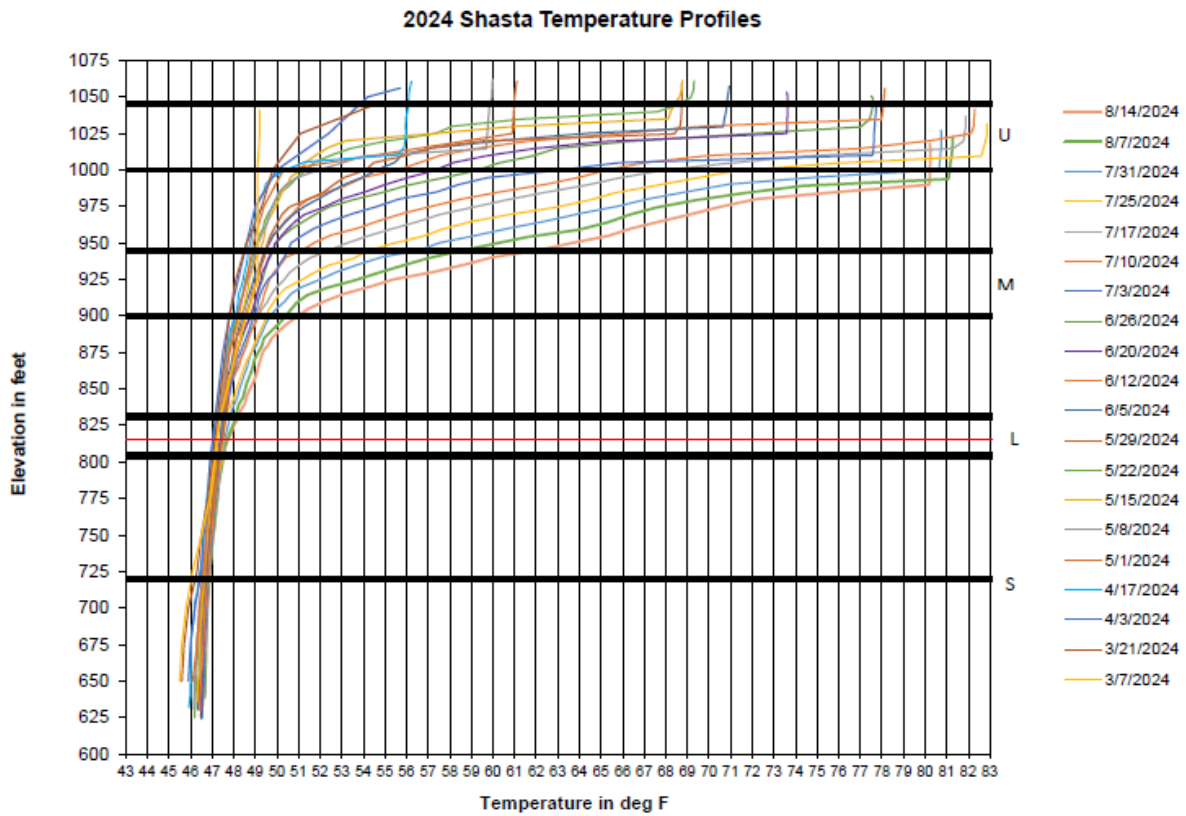


Figure 5: 2024 Shasta Temperature Profiles

This figure is a multiple line graph showing Shasta Lake temperature profiles from 03/07-08/14 with lake elevation 625-1075' and lake temperatures from 46-78 degrees Fahrenheit.

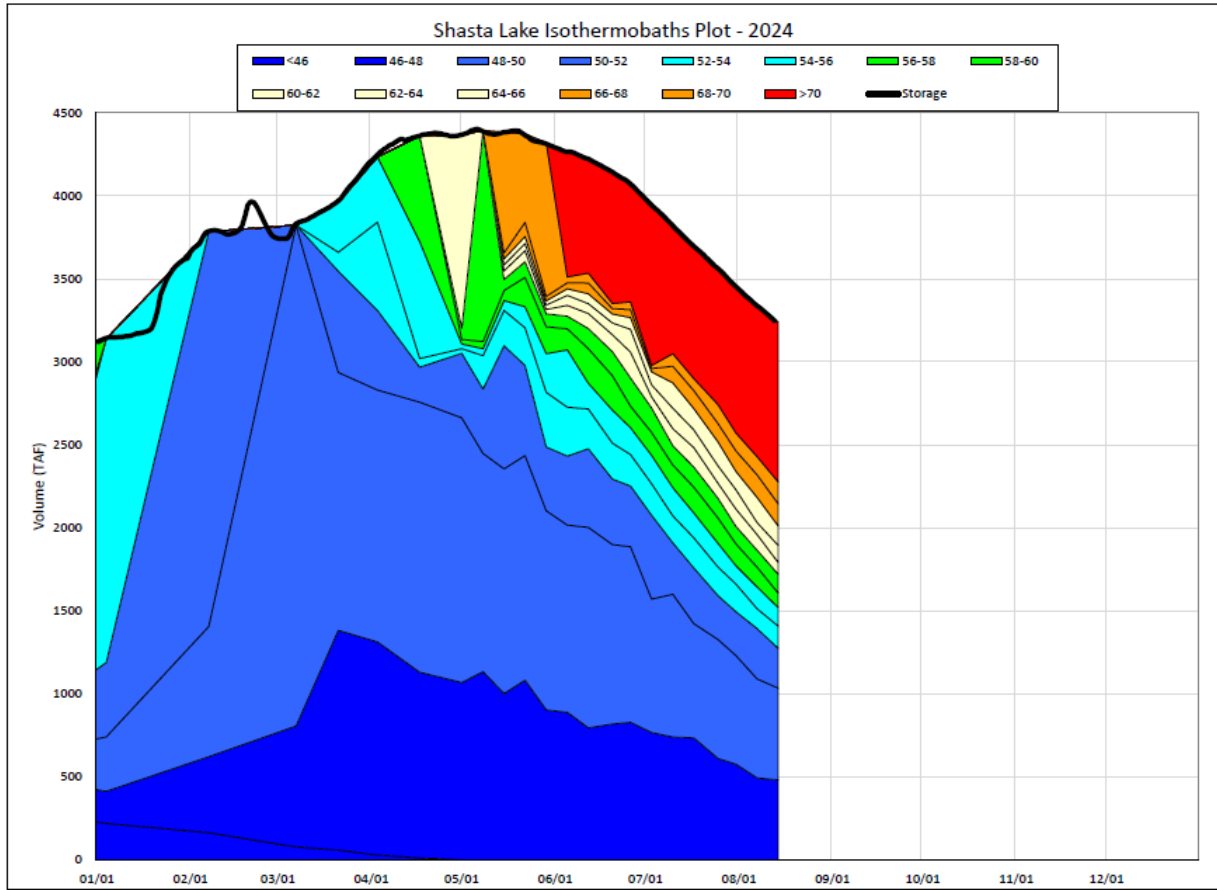


Figure 6: Shasta Lake Isothermobaths Plot - 2024

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

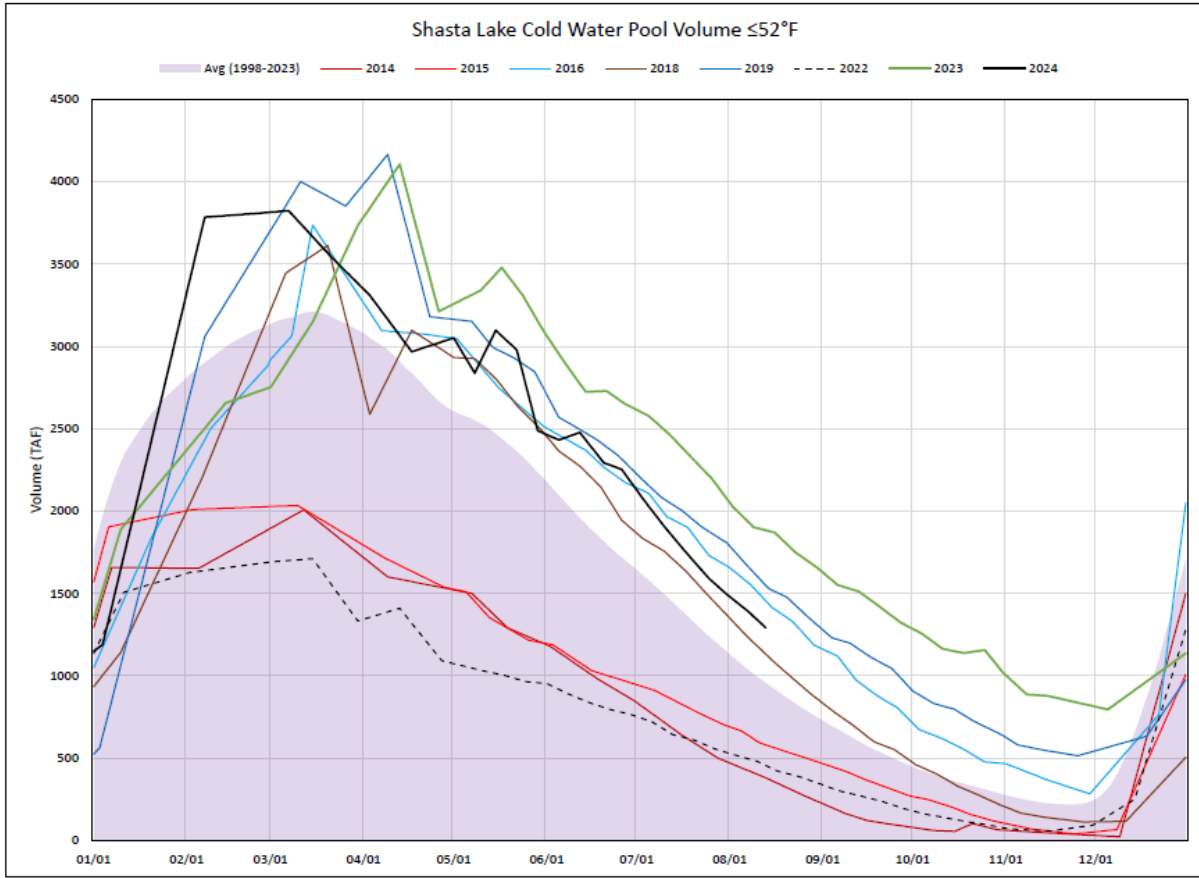


Figure 7: Shasta Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$

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.

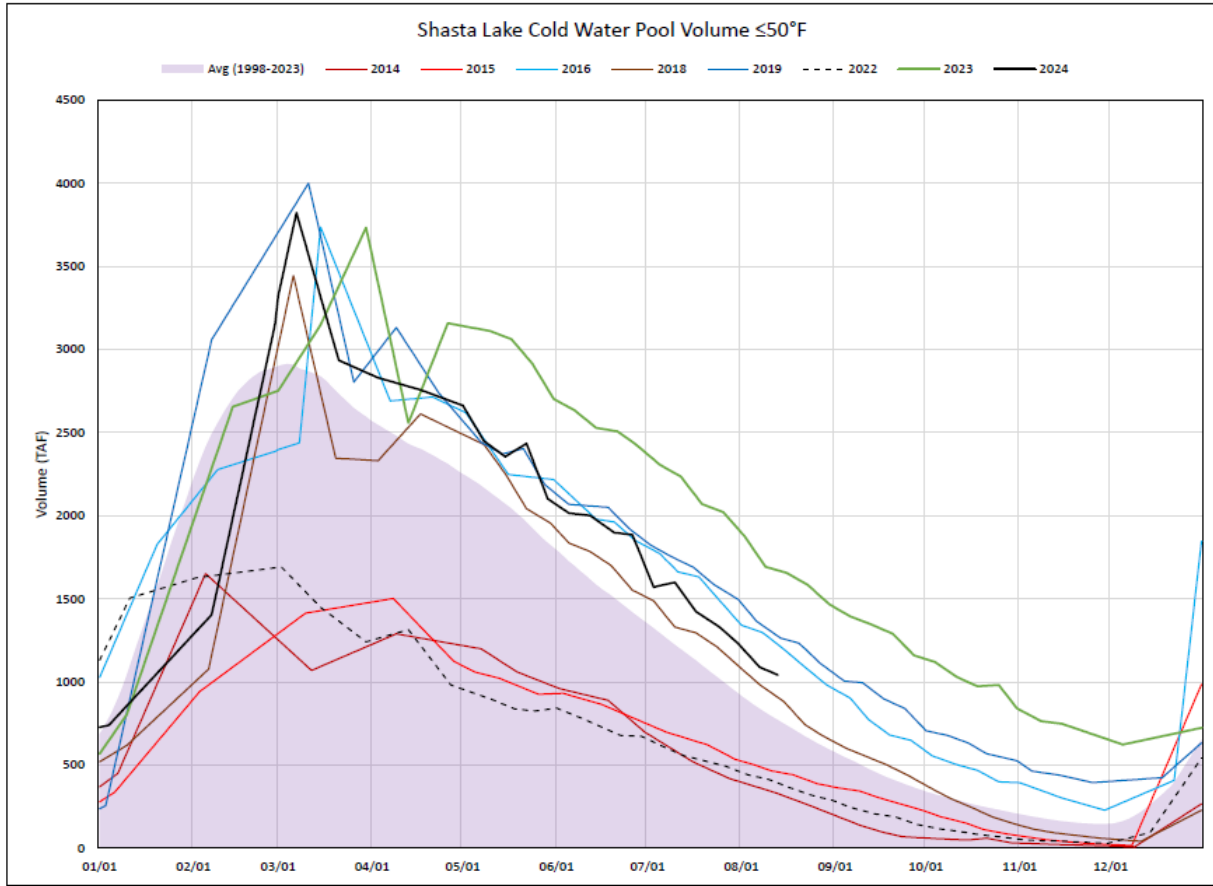


Figure 8: Shasta Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$

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.

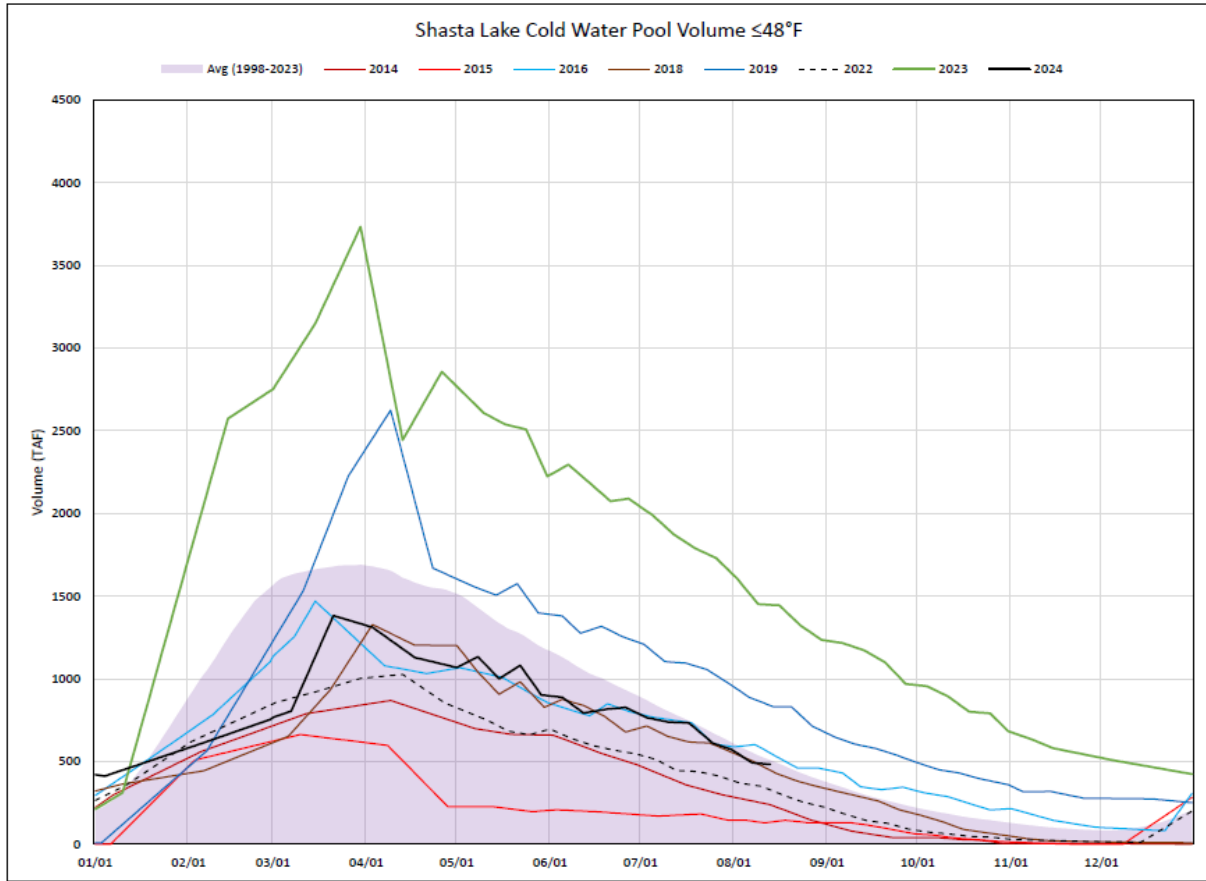


Figure 9: Shasta Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$

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.

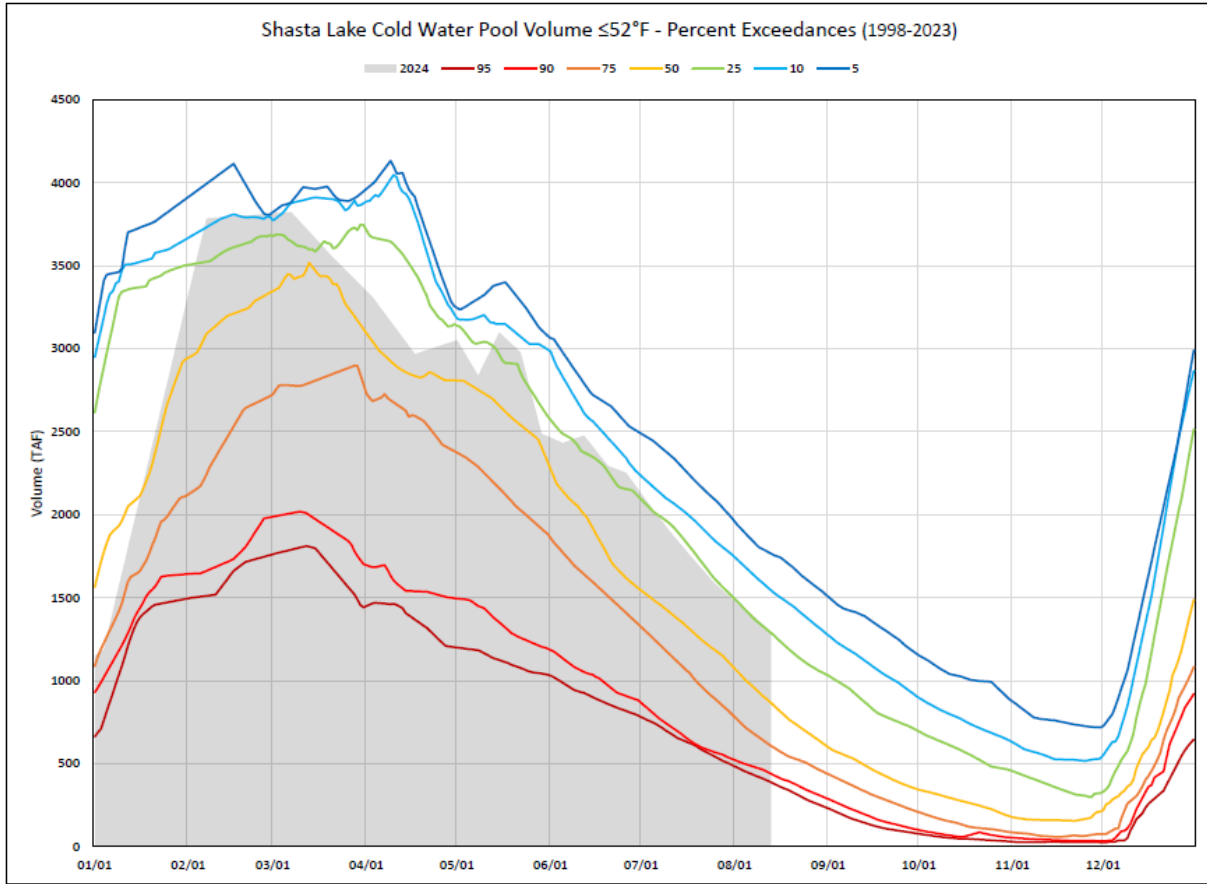


Figure 10: Shasta Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances (1998-2023)

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.

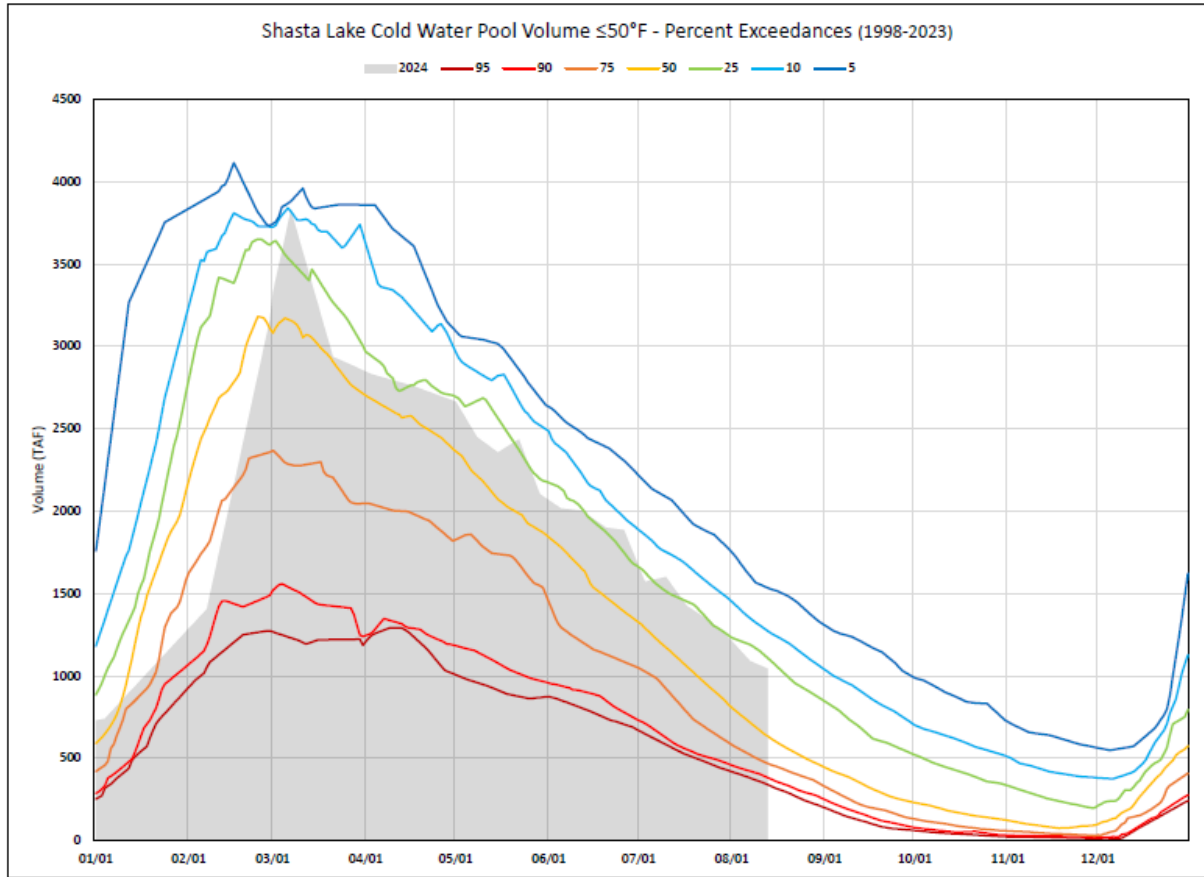


Figure 11: Shasta Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$ - Percent Exceedances (1998-2023)

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.

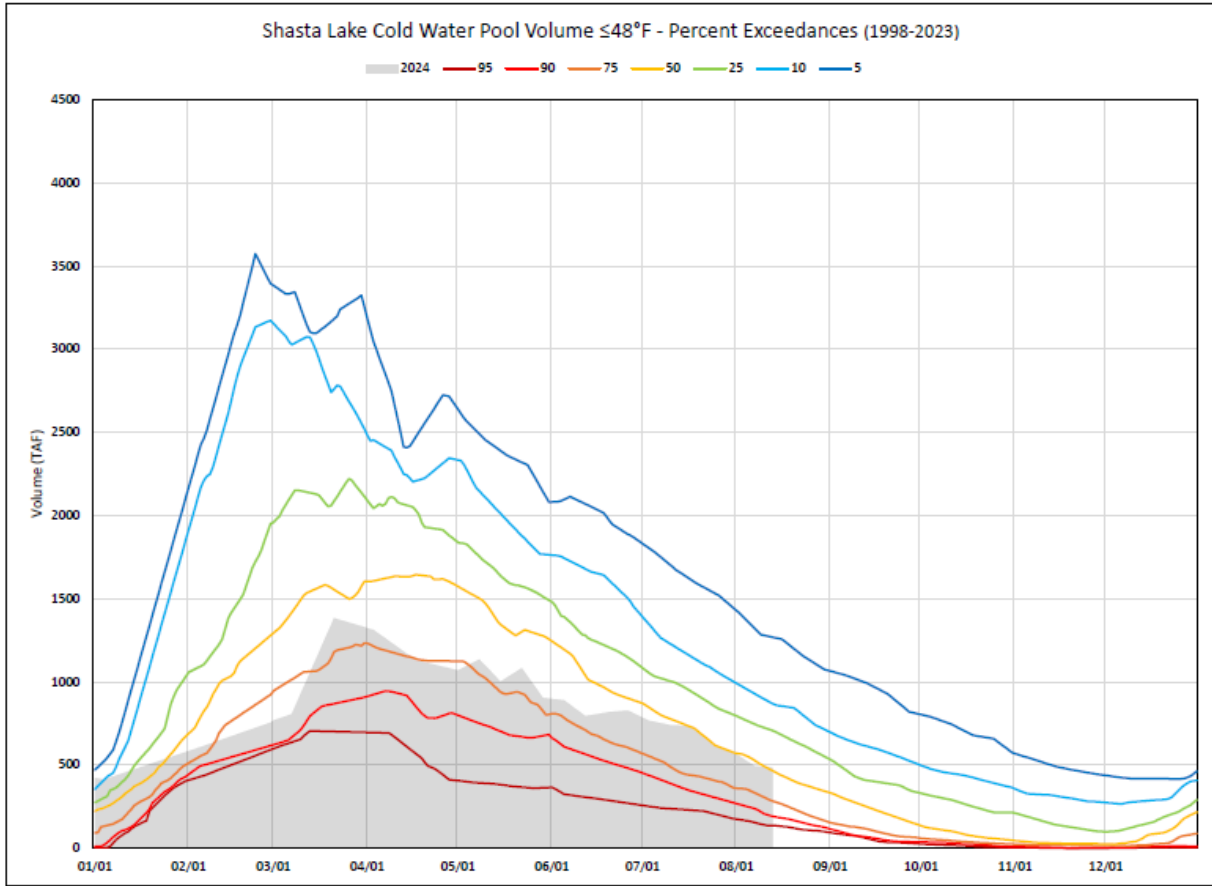


Figure 12: Shasta Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$ - Percent Exceedances (1998-2023)

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.

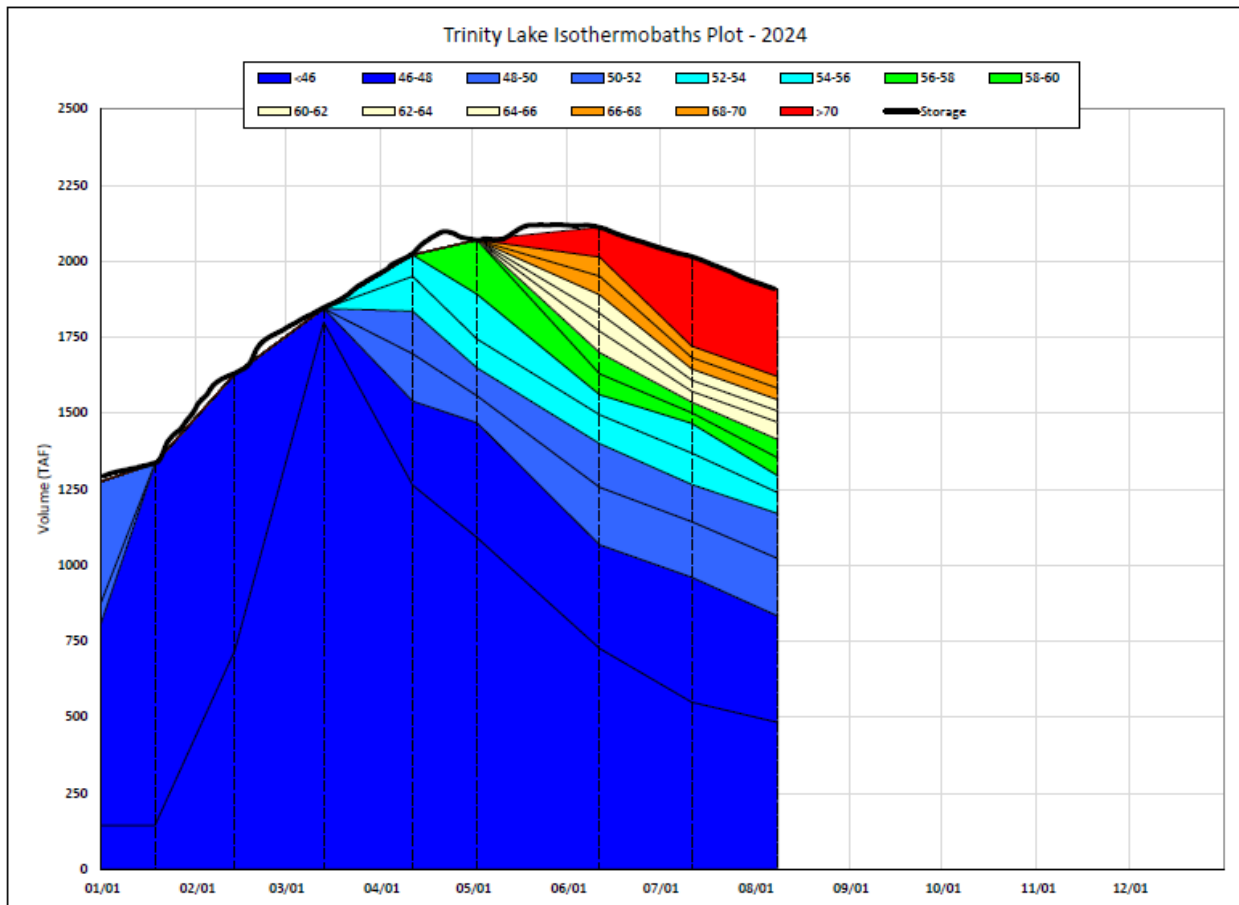


Figure 13: Trinity Lake Isothermobaths Plot – 2024

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

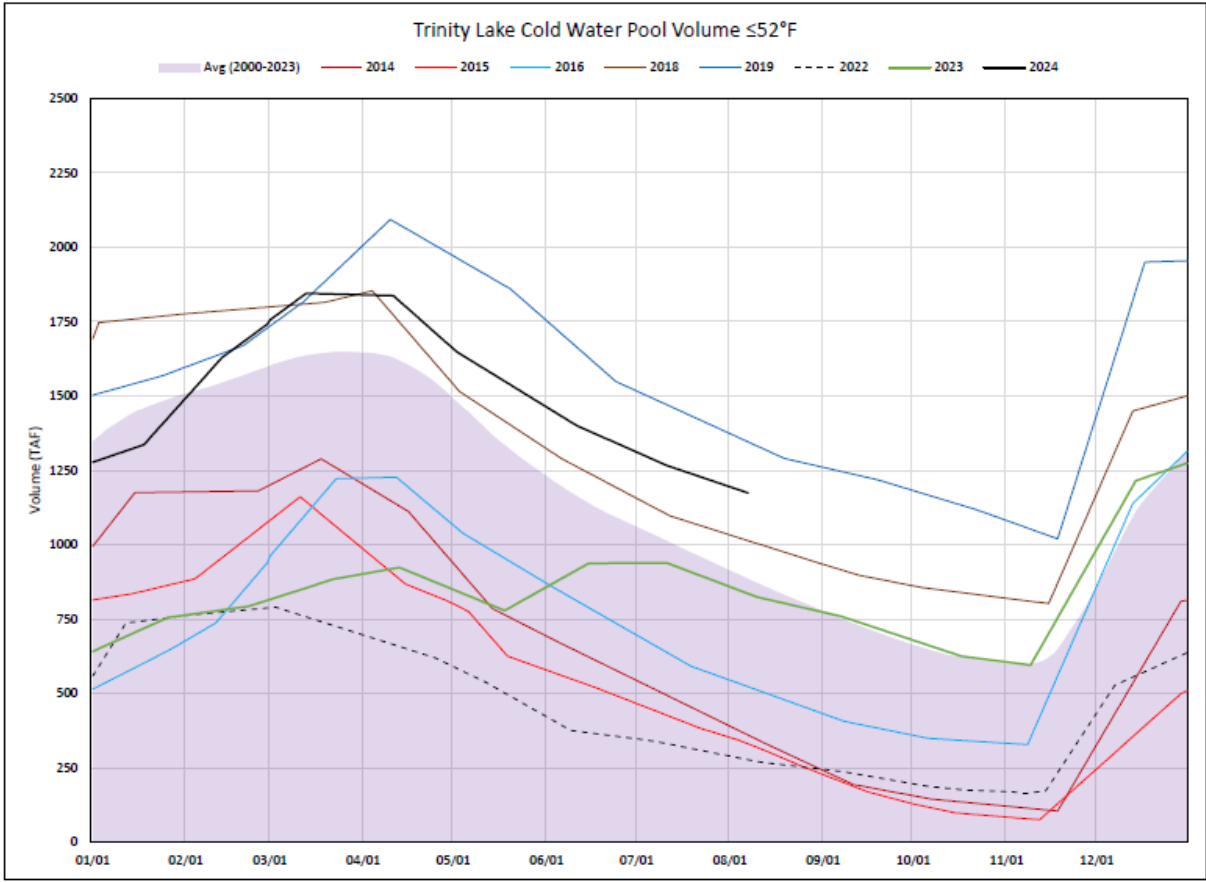


Figure 14: Trinity Lake Cold Water Pool Volume ≤52°F - Percent Exceedances (1998-2023)

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.

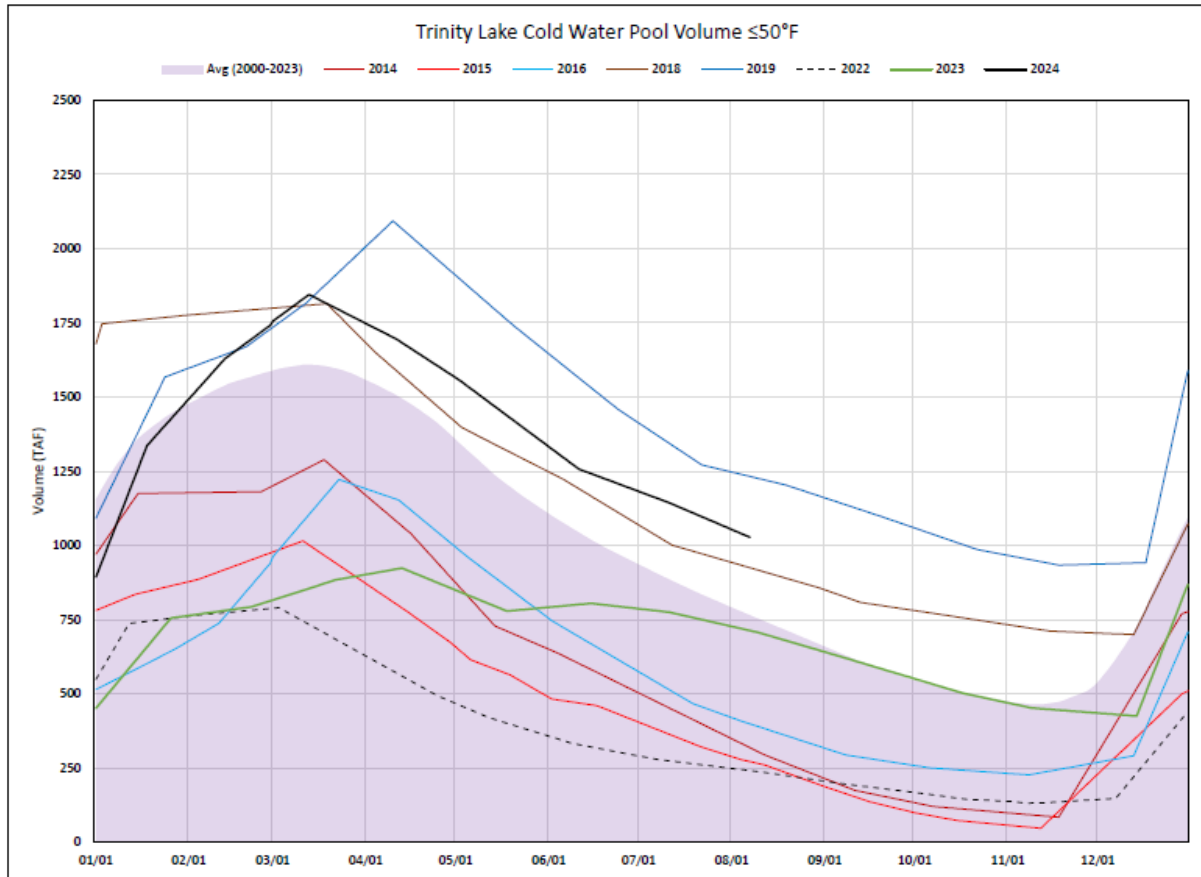


Figure 15: Trinity Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$ - Percent Exceedances (1998-2023)

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.

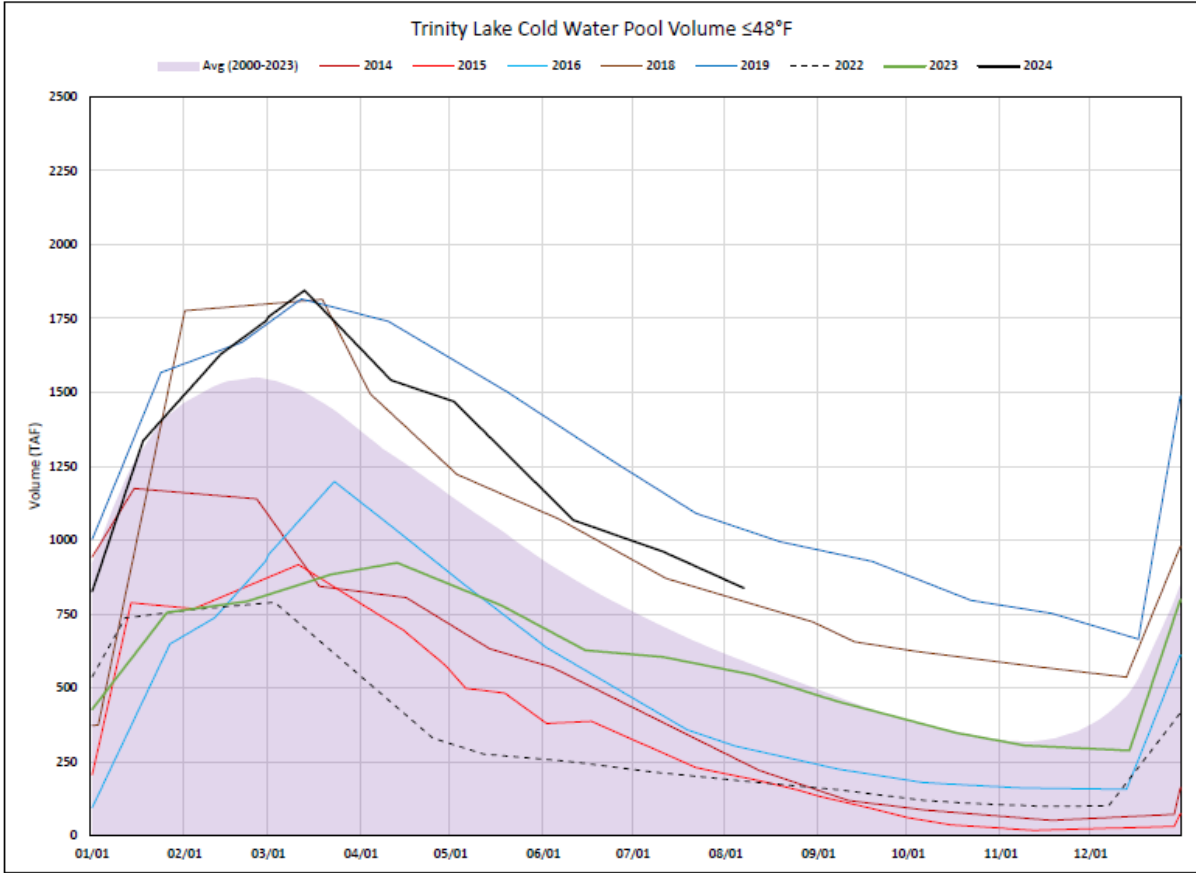


Figure 16: Trinity Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$ - Percent Exceedances (1998-2023)

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.

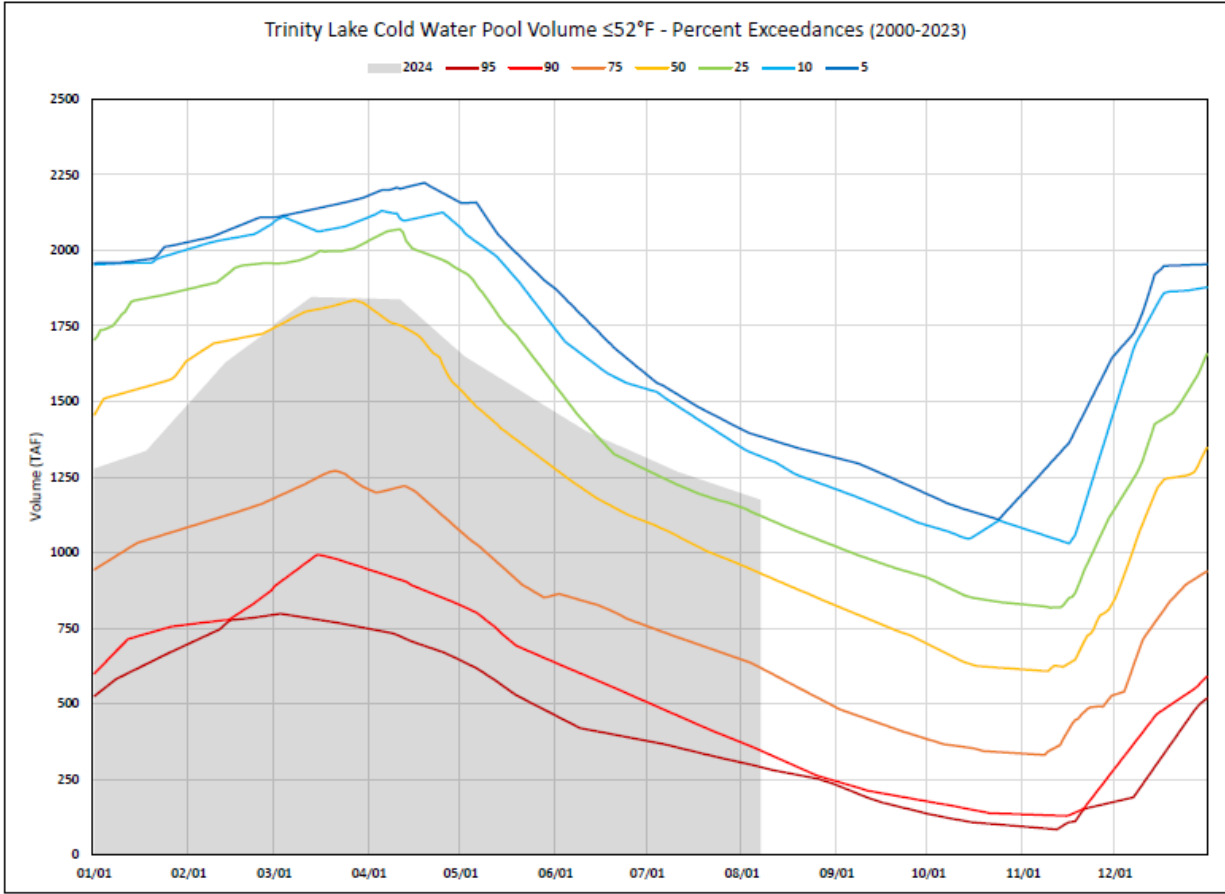


Figure 17: Trinity Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances (1998-2023)

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.

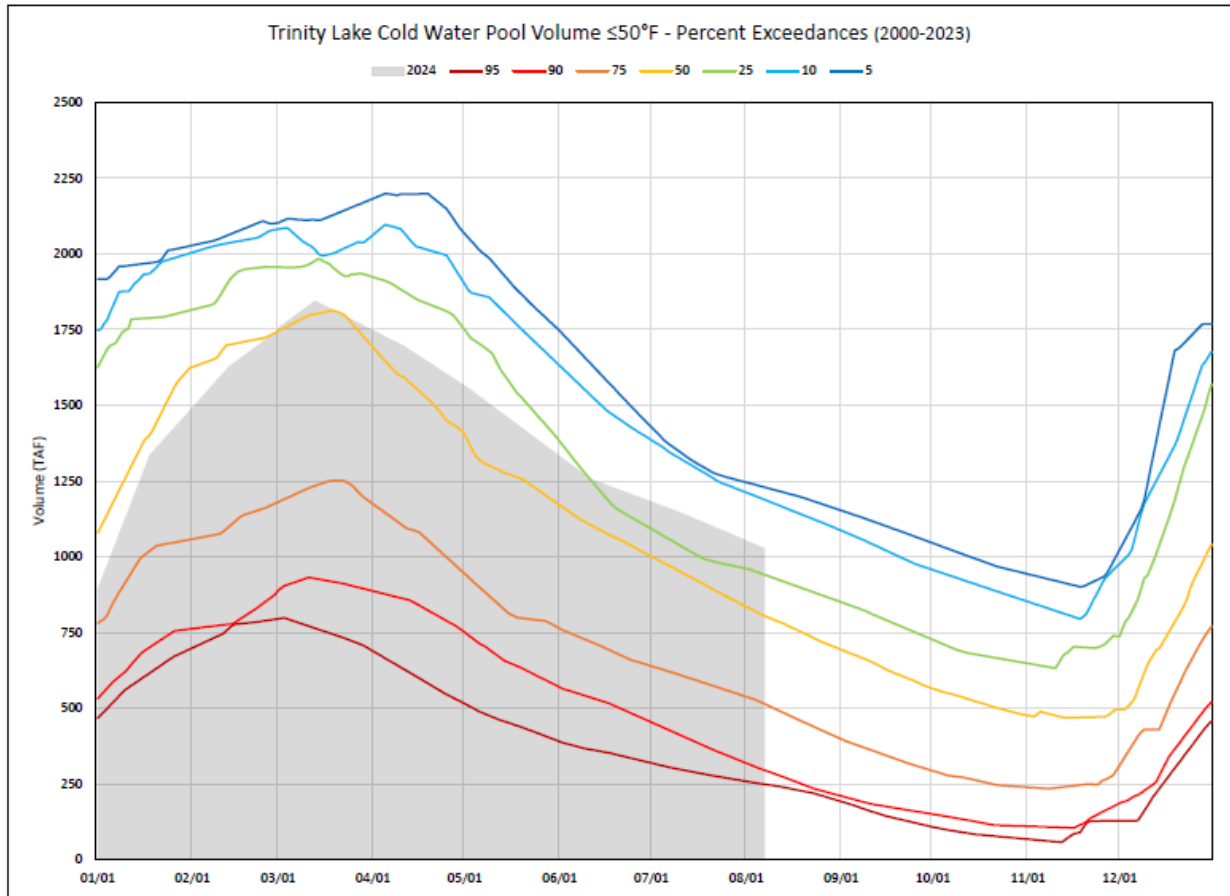


Figure 18: Trinity Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$ - Percent Exceedances (1998-2023)

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.

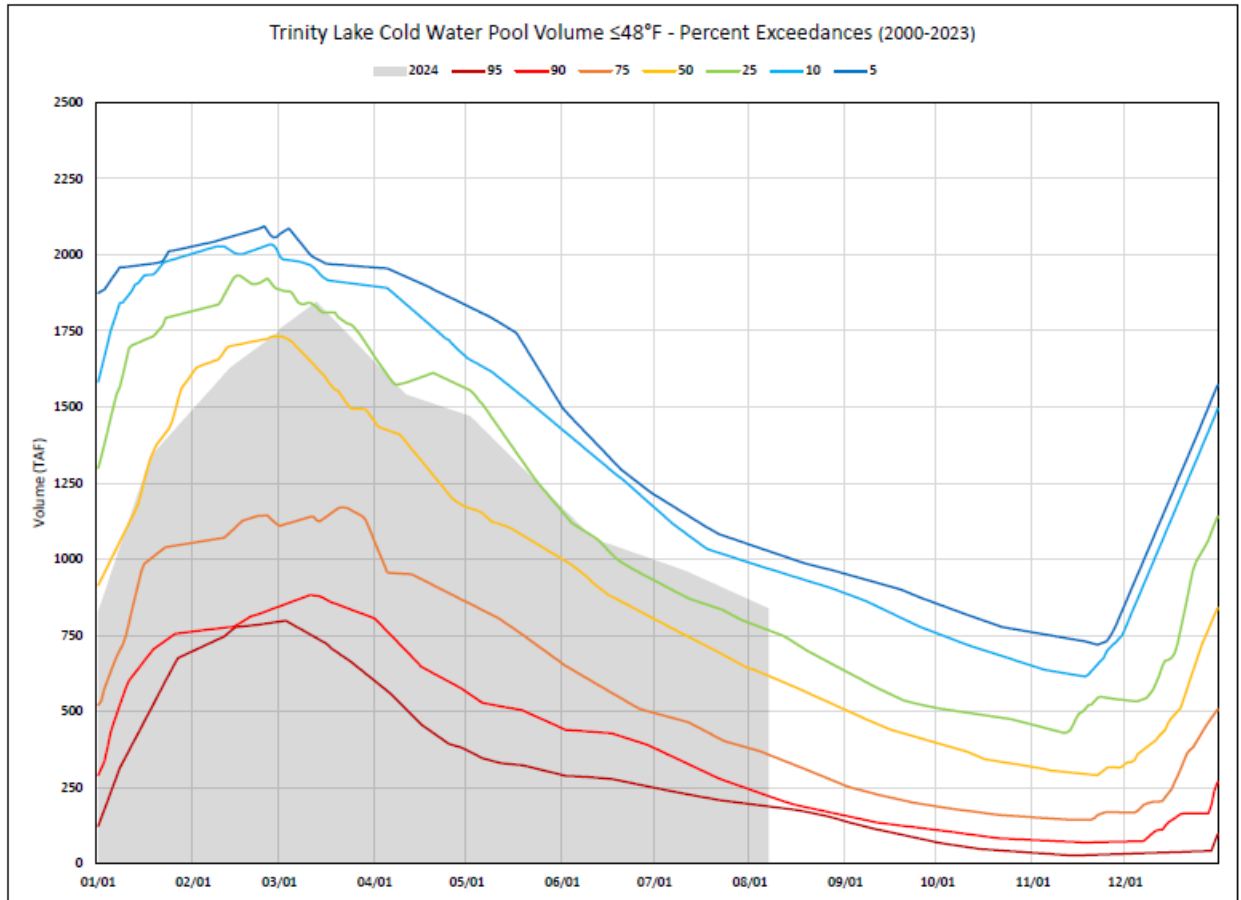


Figure 19: Trinity Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$ - Percent Exceedances (1998-2023)

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.

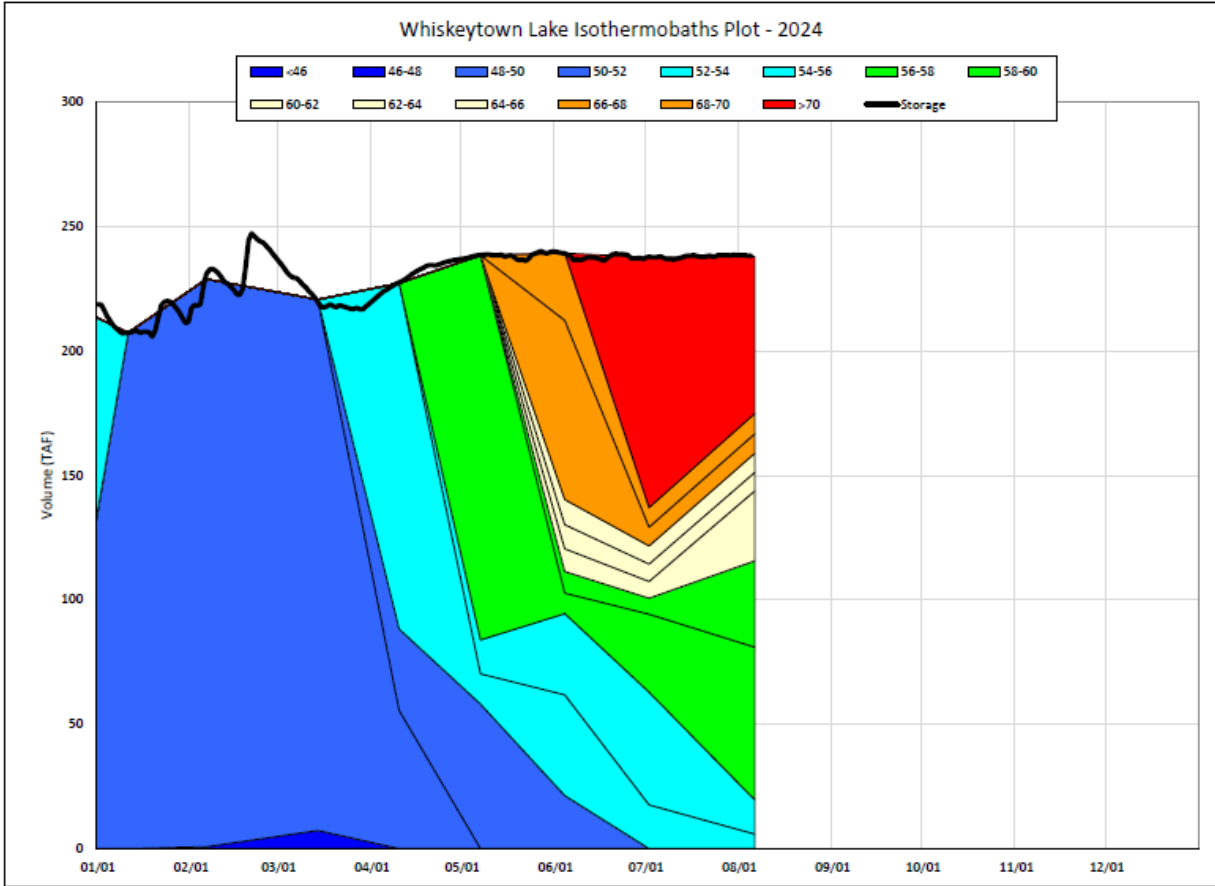


Figure 20: Whiskeytown Lake Isothermobaths Plot – 2024

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

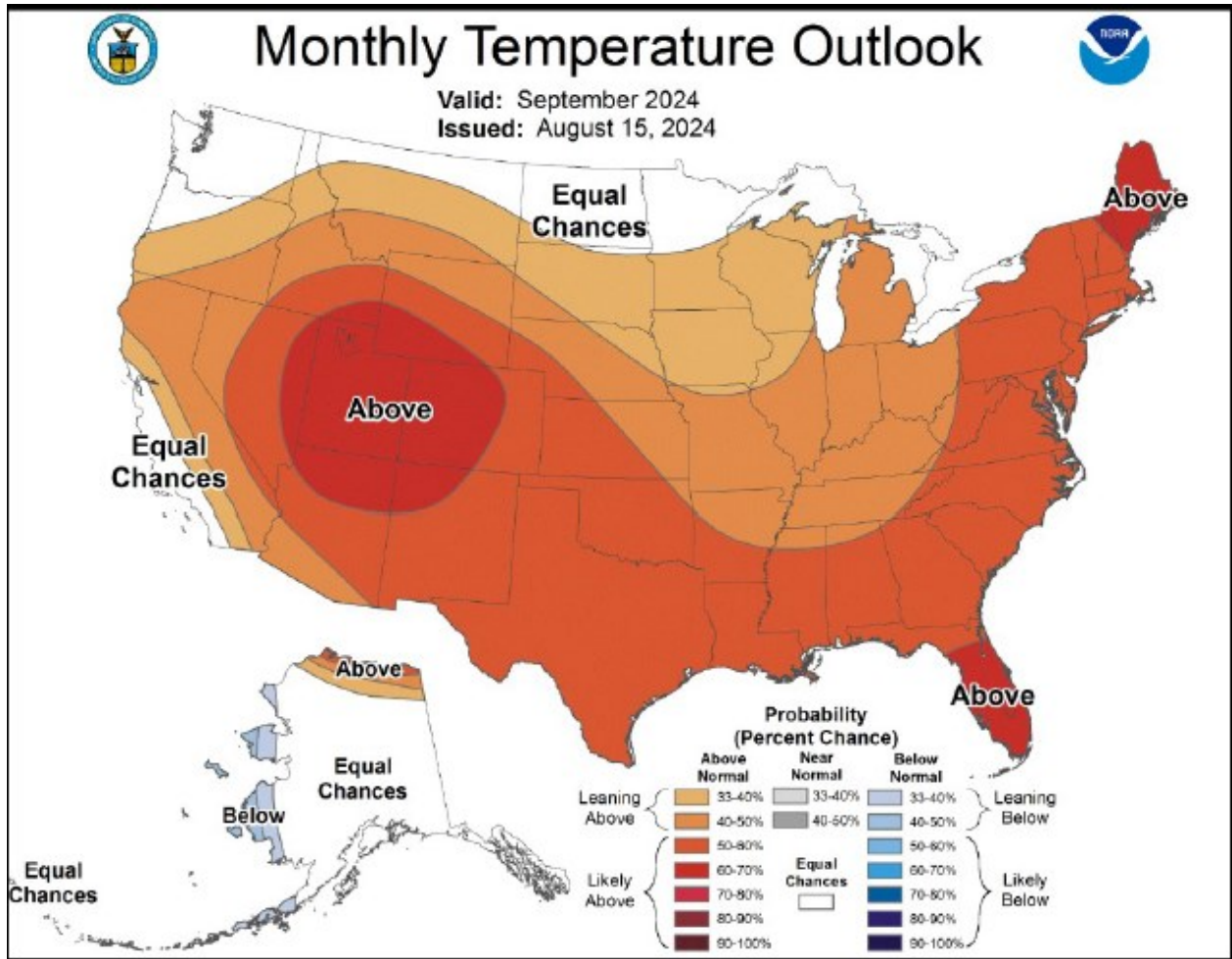


Figure 21: Official Monthly Temperature Outlook

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 September 2024 and was issued on August 15, 2024.

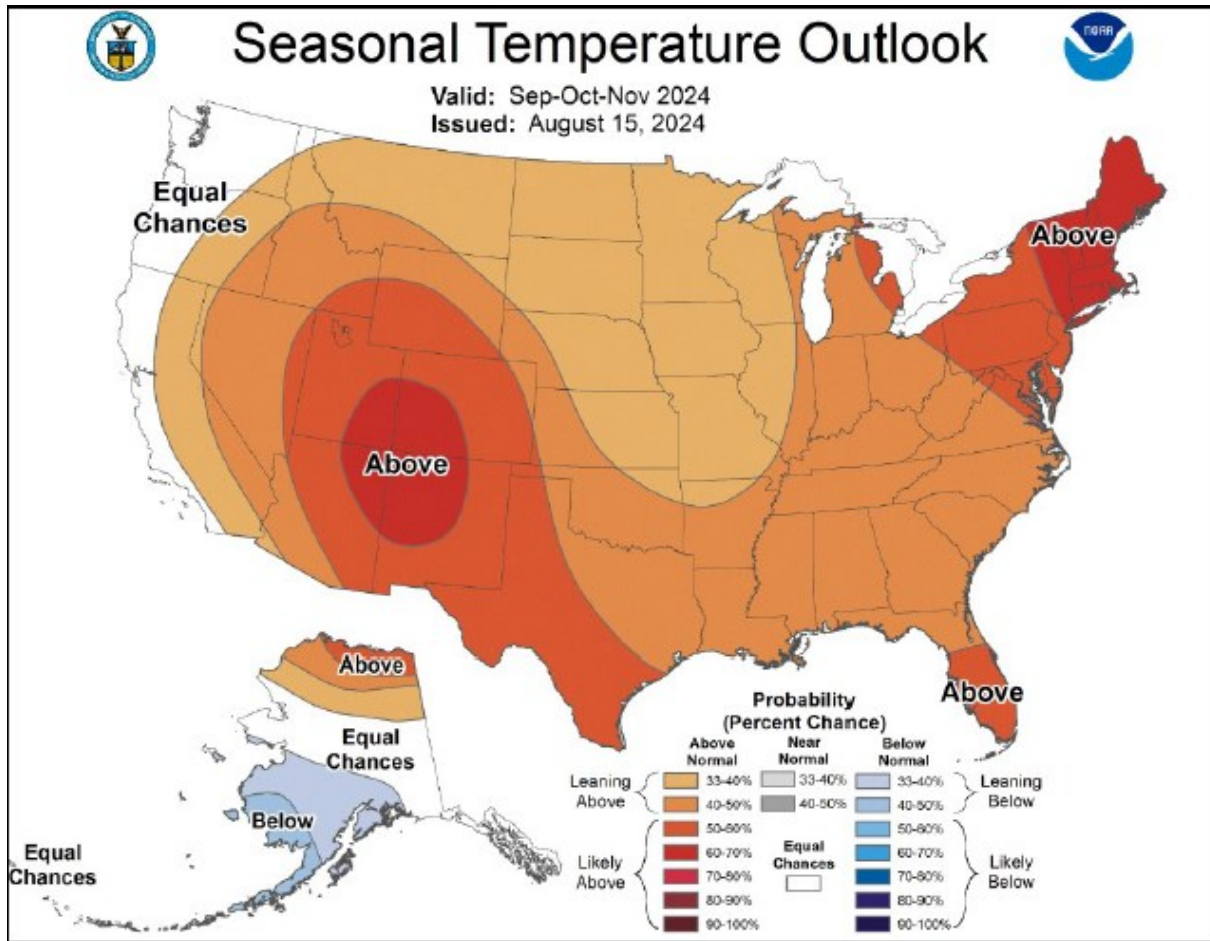


Figure 22: Seasonal Temperature Outlook

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 September to November 2024 and was issued on August 18, 2024.

Estimated CVP Operations 50% Exceedance

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

Facility	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Trinity	1934	1798	1660	1639	1651	1689	1753	1864	1992	2096	2028	1944	1815
Trinity Elev.	N/A	2326	2316	2314	2315	2318	2323	2331	2340	2347	2343	2337	2328
Whiskeytown	239	238	238	206	206	206	206	206	206	238	238	238	238
Whiskeytown Elev.	N/A	1209	1209	1199	1199	1199	1199	1199	1199	1209	1209	1209	1209
Shasta	3451	2984	2773	2668	2697	2802	3135	3479	3901	4154	4205	3963	3505
Shasta Elev.	N/A	1007	997	992	994	999	1014	1028	1044	1053	1055	1046	1029
Folsom	626	512	468	424	397	387	448	572	761	906	970	967	772
Folsom Elev.	N/A	418	412	406	403	401	410	425	446	460	465	465	447
New Melones	1933	1865	1819	1760	1772	1790	1824	1881	1961	1932	1997	2016	1939
New Melones Elev.	N/A	1040	1035	1030	1031	1033	1036	1041	1049	1046	1052	1054	1047
Fed. San Luis	499	377	385	447	589	784	960	960	961	861	648	484	259
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	8682	7774	7343	7143	7311	7658	8325	8961	9781	10187	10086	9613	8528

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

Facility	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Oroville	2760	2353	1937	1705	1617	1590	1760	2112	2452	2873	3055	2877	2416
Oroville Elev.	N/A	814	777	753	744	741	759	793	822	855	868	855	819
State San Luis	371	512	745	852	1007	1045	1045	1045	1045	963	787	666	699
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)	870	889	1130	1299	1596	1829	2005	2004	2006	1823	1435	1149	957
Total San Luis Elev.	N/A	442	466	481	508	527	541	541	541	527	494	467	448

Table 13: Monthly River Releases (TAF/cfs)

Facility	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Trinity (TAF)	N/A	53	52	23	18	18	18	17	18	80	258	126	68
Trinity (cfs)	N/A	857	870	373	300	300	300	300	300	1,347	4,189	2,120	1,102
Clear Creek (TAF)	N/A	9	9	12	12	12	12	11	22	12	18	14	9

Facility	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Clear Creek (cfs)	N/A	150	150	200	200	200	200	200	363	200	291	242	150
Sacramento (TAF)	N/A	719	476	369	268	277	277	416	400	357	434	535	738
Sacramento (cfs)	N/A	11700	8000	6000	4500	4500	4500	7500	6500	6000	7061	9000	12000
American (TAF)	N/A	202	129	125	119	123	92	139	123	280	400	149	314
American (cfs)	N/A	3279	2171	2035	2007	2000	1500	2500	2000	4700	6500	2500	5100
Stanislaus (TAF)	N/A	18	18	48	12	12	14	13	12	91	76	22	15
Stanislaus (cfs)	N/A	300	300	774	200	200	226	229	200	1537	1242	363	250
Feather (TAF)	N/A	492	494	246	104	108	108	97	108	104	108	292	430
Feather (cfs)	N/A	8000	8300	4000	1750	1750	1750	1750	1750	1750	1750	4900	7000

Table 14: Trinity Diversions (TAF)

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

Table 15: Delta Summary (TAF)

Facility	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Tracy	N/A	253	260	209	235	258	237	97	115	57	58	223	258
USBR Banks	N/A	0	0	0	0	0	0	0	0	0	0	0	0
Contra Costa	N/A	12.7	14.0	14.0	16.0	18.0	14.0	14.0	12.7	12.7	12.7	9.8	11.1
Total USBR	N/A	266	274	223	251	276	251	111	128	69	71	233	269
State Export	N/A	359	395	269	293	125	118	111	96	33	35	157	343
Total Export	N/A	625	669	492	544	401	369	222	224	102	106	390	612
COA Balance	N/A	43	42	44	42	42	42	42	42	42	42	42	43
Vernalis (TAF)	N/A	68	77	126	99	103	119	237	249	255	352	172	80
Vernalis (cfs)	N/A	1113	1292	2043	1662	1680	1934	4263	4055	4278	5718	2885	1307
Old/Middle River calc.	N/A	-7,914	-8,668	-5,833	-6,883	-4,857	-4,342	-1,750	-1,567	15	656	-4,337	-7,669
Computed DOI	N/A	9028	7497	7499	4505	11810	17032	29897	28435	21079	18333	7884	8004
Excess Outflow	N/A	0	0	0	0	7304	11029	18497	17032	9682	10834	0	0
% Export/Inflow	N/A	43%	51%	45%	61%	34%	26%	11%	11%	6%	7%	36%	44%
% Export/inflow std.	N/A	65%	65%	65%	65%	65%	65%	45%	35%	35%	35%	35%	65%

Table 16: Hydrology

Statistic	Trinity	Shasta	Folsom	New Melones
Water Year Inflow (TAF)	1,542	5,653	2,354	967
Year to Date + Forecasted % of mean	128%	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 17: Storages – Federal End of the Month Storage/Elevation (TAF/Feet)

Facility	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Trinity	1934	1796	1657	1634	1630	1651	1663	1699	1765	1836	1787	1700	1593
Trinity Elev.	N/A	2326	2316	2314	2314	2315	2316	2319	2324	2329	2326	2319	2311
Whiskeytown	238	238	238	206	206	206	206	206	206	238	238	238	238
Whiskeytown Elev.	N/A	1209	1209	1199	1199	1199	1199	1199	1199	1209	1209	1209	1209
Shasta	3451	2984	2717	2561	2570	2643	2713	2841	3080	3104	2910	2652	2311
Shasta Elev.	N/A	1007	995	987	988	991	995	1001	1011	1012	1004	992	975
Folsom	626	510	483	432	355	296	297	344	455	590	637	601	464
Folsom Elev.	N/A	418	414	408	396	386	387	395	411	427	433	429	412
New Melones	1933	1866	1822	1758	1765	1772	1777	1779	1799	1731	1664	1583	1506
New Melones Elev.	N/A	1040	1036	1030	1030	1031	1031	1032	1034	1027	1020	1012	1004
Fed. San Luis	499	412	441	430	485	617	786	742	722	666	515	282	95
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	8681	7807	7358	7021	7011	7185	7441	7611	8027	8165	7751	7056	6208

Table 18: State End of the Month Reservoir Storage (TAF)

Facility	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Oroville	2760	2298	1865	1633	1546	1518	1538	1640	1811	1990	1964	1665	1331
Oroville Elev.	N/A	809	770	745	736	733	735	746	764	782	779	749	710
State San Luis	371	513	741	799	848	991	1038	1034	1131	1059	901	671	431
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)	870	925	1183	1230	1333	1608	1824	1776	1853	1724	1416	953	525
Total San Luis Elev.	N/A	445	471	473	484	509	527	523	529	518	492	448	400

Table 19: Monthly River Releases (TAF/cfs)

Facility	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Trinity (TAF)	N/A	53	52	23	18	18	18	17	18	36	180	47	28
Trinity (cfs)	N/A	857	870	373	300	300	300	300	300	600	2,924	783	450
Clear Creek (TAF)	N/A	9	9	12	12	12	12	11	22	12	18	13	9

Facility	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Clear Creek (cfs)	N/A	150	150	200	200	200	200	200	363	200	296	224	150
Sacramento (TAF)	N/A	719	524	400	238	246	246	250	277	416	523	565	615
Sacramento (cfs)	N/A	11700	8800	6500	4000	4000	4000	4500	4500	7000	8500	9500	10000
American (TAF)	N/A	204	104	92	119	123	61	56	62	71	128	109	197
American (cfs)	N/A	3317	1750	1503	2003	2000	1000	1001	1010	1188	2089	1828	3197
Stanislaus (TAF)	N/A	18	15	48	12	12	14	12	12	46	39	12	12
Stanislaus (cfs)	N/A	300	250	774	200	200	226	221	200	767	631	200	200
Feather (TAF)	N/A	492	488	246	104	108	108	97	108	104	108	286	246
Feather (cfs)	N/A	8000	8200	4000	1750	1750	1750	1750	1750	1750	1750	4800	4000

Table 20: Trinity Diversions (TAF)

Diversion Facility	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Carr PP	N/A	90	90	8	6	1	1	1	1	29	12	91	100
Spring Creek PP	N/A	80	80	30	0	0	0	0	0	0	0	80	90

Table 21: Delta Summary (TAF)

Facility	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Tracy	N/A	253	254	133	145	192	225	51	70	57	58	50	169
USBR Banks	N/A	0	0	22	22	22	0	0	0	0	0	0	11
Contra Costa	N/A	12.0	12.0	14.0	14.0	14.0	14.0	14.0	12.0	12.0	12.0	10.0	11.0
Total USBR	N/A	265	266	169	181	228	239	65	82	69	70	60	191
State Export	N/A	360	390	211	178	225	155	97	184	33	34	24	77
Total Export	N/A	625	656	380	359	453	394	162	266	101	104	84	268
COA Balance	N/A	0	0	0	0	0	0	0	0	8	45	6	0
Vernalis (TAF)	N/A	55	57	107	74	75	77	82	98	103	100	43	45
Vernalis (cfs)	N/A	902	956	1,734	1,242	1,225	1,251	1,482	1,599	1,725	1,631	721	737
Old/Middle River calc.	N/A	-8,013	-8,651	-4,570	-4,678	-5,713	-4,962	-2,170	-3,202	-1,124	-1,161	-1,353	-3,615
Computed DOI	N/A	9,028	7,531	7,499	4,505	4,506	8,117	11,400	11,403	9,497	7,499	7,110	4,506
Excess Outflow	N/A	0	17	0	0	0	3611	0	0	0	0	0	0
% Export/Inflow	N/A	43%	51%	39%	51%	58%	45%	19%	27%	12%	13%	10%	32%
% Export/inflow std.	N/A	65%	65%	65%	65%	65%	65%	45%	35%	35%	35%	35%	65%

Table 22: Hydrology

Statistic	Trinity	Shasta	Folsom	New Melones
Water Year Inflow (TAF)	1,542	5,645	2,336	967
Year to Date + Forecasted % of mean	128%	102%	86%	91%

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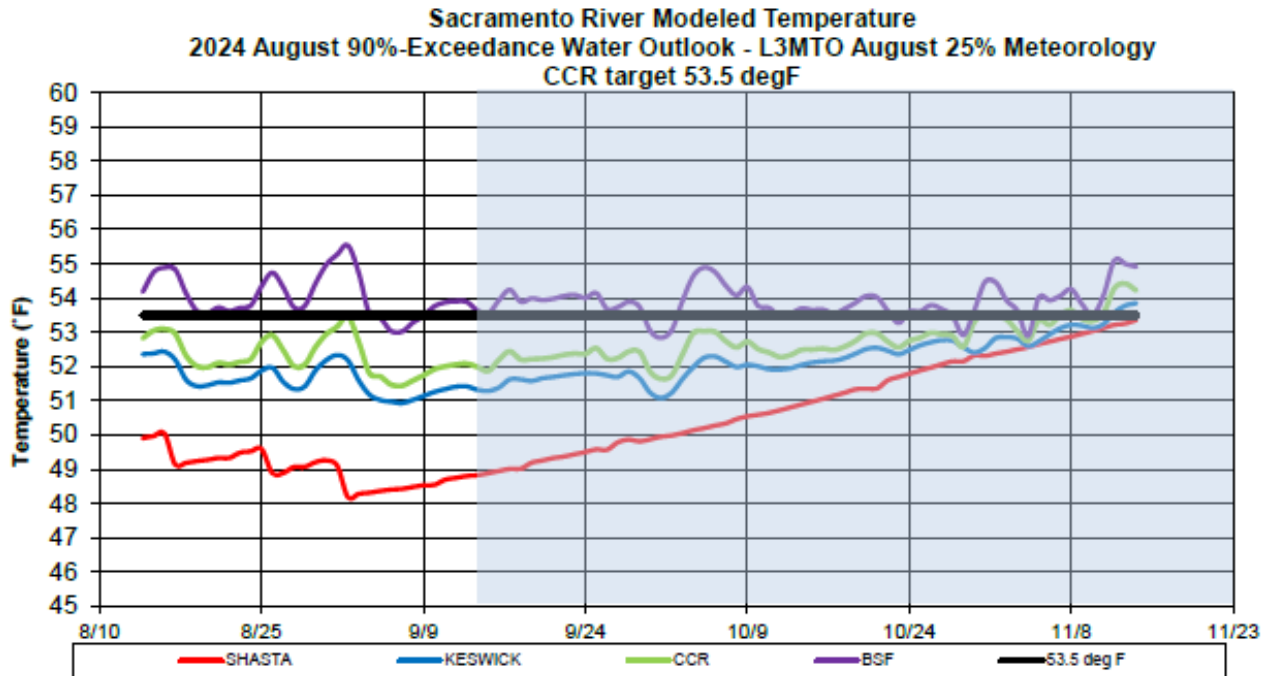


Figure 23: Sacramento River Modeled Temperature – August 2024 90%-Exceedance Water Outlook Historical 25% Meteorology, CCR target 53.5 degrees Fahrenheit.

This figure shows Sacramento River modeled temperature in degrees Fahrenheit at Shasta and Keswick Dams, above Clear Creek, and Balls Ferry from 8/10 to 11/23 in percent exceedances. It also shows the desired degree range between 45 and 60 degrees Fahrenheit.

Table 23: Facility Temperature Outlook in Degrees Fahrenheit

Month	Shasta	Keswick	CCR	BSF	Igo	Trinity	Lewiston
September	49.0	51.5	52.2	53.9	55.9	45.8	47.8
October	51.1	52.2	52.7	53.8	54.8	45.9	49.1
November	53.3	53.5	53.8	54.0	53.3	46.0	47.9

Legend

A = Denotes period of model limitations.

Run date: 8/20/24

EOM September Storage: 2.72 MAF

Trinity profile date: 8/8/24

Whiskeytown profile date: 8/6/24

Shasta profile date: 8/14/24

Projected side gates: First August 27 Full September 3

End of September Cold-Water-Pool less than 56 degrees Fahrenheit: 751 TAF

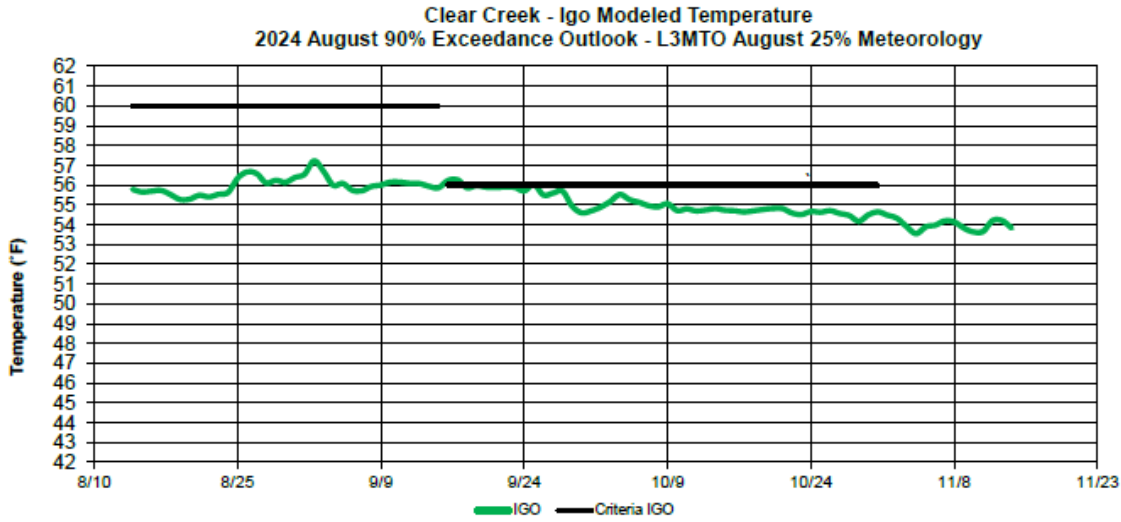


Figure 24: Clear Creek Igo Modeled Temperature – August 2024 90%-Exceedance Water Outlook Historical 25% Meteorology.

This figure is a line graph showing Igo modeled temperature in degrees Fahrenheit at from 8/10 to 11/23.

Table 24: Facility Temperature Outlook in Degrees Fahrenheit

Month	Igo
September	55.9
October	54.8
November	53.3

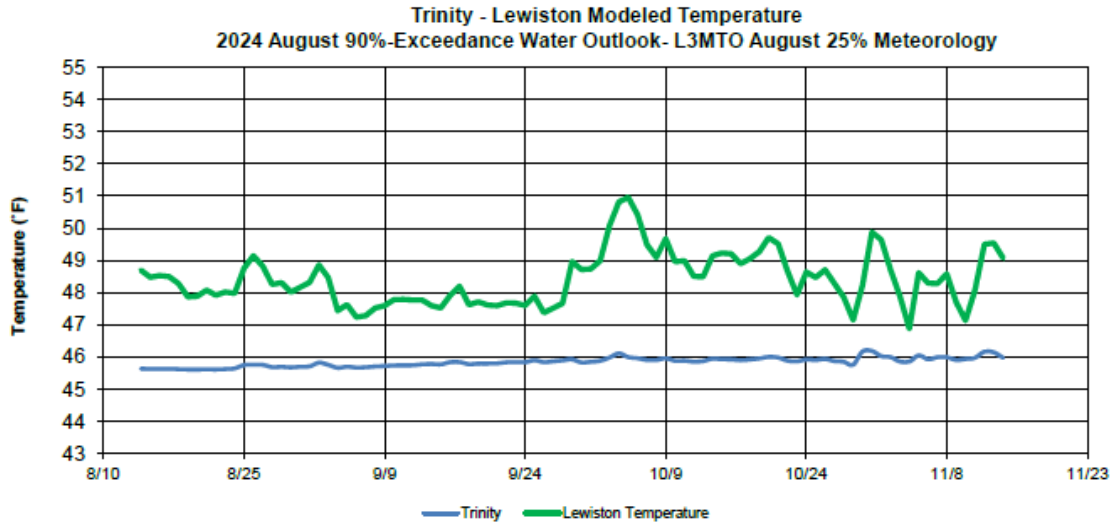


Figure 25: Trinity-Lewiston Modeled Temperature – June 2024 90%-Exceedance Water Outlook Historical 25% Meteorology.

This figure is a line graph showing Trinity - Lewiston modeled temperature in degrees Fahrenheit at from 08/10 to 11/23.

Table 25: Facility Temperature Outlook in Degrees Fahrenheit

Month	Trinity	Lewiston
September	45.8	47.8
October	45.9	49.1
November	46.0	47.9