

# Northern CVP Water Temperature Report

## February - 2024

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— BUREAU OF —  
RECLAMATION

All Data in this Report is Preliminary and Subject to Change

| DATE  | Mean Daily Water Temperatures (°F) |      |                  |      |      |                  |      |        |        |        |        |        |        | Mean Daily Release (CFS) |                   |               | Mean Daily Air Temperatures (°F) |      |      |
|-------|------------------------------------|------|------------------|------|------|------------------|------|--------|--------|--------|--------|--------|--------|--------------------------|-------------------|---------------|----------------------------------|------|------|
|       | TCD <sup>1</sup>                   | SHD  | SPP <sup>1</sup> | KWK  | SAC  | CCR <sup>2</sup> | BSF  | BND    | RDB    | IGO    | LWS    | DGC    | NFH    | Shasta Generation        | Spring Creek P.P. | Keswick Total | RDD                              | BSF  | RDB  |
| Jan   | 50.8                               | 50.3 | 49.0             | 50.3 | 50.2 | 50.3             | 50.0 | 49.6   | 49.7   | 48.7   | 44.8   | 44.1   | 44.9   | 3815                     | 1050              | 5127          | 50.2                             | 47.3 | 48.9 |
| 02/01 | 49.8                               | 49.3 | 48.8             | 49.5 | 49.7 | 49.6             | 50.7 | ? 50.9 | 51.0   | 50.7   | 45.9   | 46.2   | 47.1   | 13283                    | 1701              | 14435         | 55.0                             | 51.5 | 51.6 |
| 02/02 | 49.8                               | 49.3 | 48.9             | 49.6 | 49.6 | 49.7             | 50.4 | 50.6   | 50.7   | 50.2   | 45.9   | 45.9   | 46.8   | 13912                    | 1723              | 14560         | 48.0                             | 47.1 | 48.4 |
| 02/03 | 50.0                               | 49.4 | 49.0             | 49.3 | 49.2 | 49.3             | 49.4 | 49.6   | 49.7   | 48.4   | 45.9   | 44.5   | 45.3   | 14117                    | 1726              | 14394         | 46.5                             | 43.3 | 44.9 |
| 02/04 | 50.3                               | 49.7 | 49.1             | 49.3 | 49.1 | 49.2             | 48.9 | 48.8   | 48.8   | 48.0   | 45.8   | 43.5   | 44.4   | 13685                    | 1729              | 14658         | 49.0                             | 44.0 | 44.8 |
| 02/05 | 49.7                               | 49.1 | 49.1             | 49.7 | 49.6 | 49.8             | 49.8 | 49.1   | 48.9   | 50.1   | 46.3   | 44.4   | 45.1   | 13429                    | 1727              | 14912         | 54.0                             | 53.6 | 53.4 |
| 02/06 | 49.9                               | 49.3 | 49.1             | 49.5 | 49.4 | 49.5             | 50.0 | 49.9   | 50.1   | 49.9   | 46.6   | 45.3   | 46.1   | 13717                    | 1718              | 14635         | 49.5                             | 48.1 | 50.6 |
| 02/07 | 50.0                               | 49.4 | 49.0             | 49.4 | 49.2 | 49.3             | 49.2 | 49.1   | 49.2   | 48.4   | 46.3   | 44.8   | 45.4   | 13717                    | 1718              | 14635         | 42.0                             | 40.8 | 42.4 |
| 02/08 | 50.0                               | 49.3 | 48.8             | 49.2 | 49.2 | 49.3             | 48.8 | 48.3   | 48.2   | 47.9   | 46.1   | 44.3   | 44.9   | 14400                    | 1729              | 14732         | 42.5                             | 40.0 | 41.7 |
| 02/09 | 49.9                               | 49.2 | 48.7             | 49.3 | 49.2 | 49.4             | 49.3 | 49.1   | 48.9   | 48.0   | 46.1   | 44.2   | 44.7   | 13416                    | 1722              | 15036         | 49.0                             | 44.5 | 45.2 |
| 02/10 | 49.9                               | 49.2 | 48.7             | 49.2 | 49.2 | 49.3             | 49.5 | 49.2   | 49.3   | ? 47.9 | ? 46.2 | ? 44.2 | ? 44.9 | 13570                    | 1720              | 14961         | 53.0                             | 48.4 | 49.8 |
| 02/11 | 49.9                               | 49.2 | 48.7             | 49.2 | 49.2 | 49.3             | 49.3 | 49.1   | 49.3   | ? 47.7 | ? 46.2 | 44.2   | 44.8   | 13508                    | 1714              | 14752         | 48.0                             | 43.9 | 46.0 |
| 02/12 | 49.9                               | 49.2 | 48.7             | 49.2 | 49.1 | ? 49.3           | 49.3 | 49.1   | 49.2   | 48.0   | 46.3   | 44.5   | 45.1   | 13224                    | 1726              | 14692         | 49.0                             | 43.6 | 45.7 |
| 02/13 | 50.3                               | 49.1 | ? 48.6           | 49.2 | 49.2 | 49.3             | 49.5 | 49.4   | 49.5   | 48.6   | 46.4   | 44.8   | 45.5   | 13882                    | 1100              | 14691         | 51.5                             | 46.8 | 47.6 |
| 02/14 | 50.8                               | 48.8 | 48.6             | 49.1 | 49.0 | 49.2             | 49.3 | 49.4   | 49.6   | 48.5   | 46.3   | 45.0   | 45.5   | 14018                    | 1747              | 15111         | 50.0                             | 48.7 | 50.1 |
| 02/15 | 50.6                               | 48.6 | 48.6             | 48.9 | 49.0 | 49.2             | 49.6 | 49.6   | 49.8   | 49.4   | 46.4   | 45.2   | 45.7   | 12223                    | 1728              | 14876         | 53.5                             | 51.9 | 53.3 |
| 02/16 | 50.6                               | 48.6 | 48.5             | 48.9 | 49.0 | 49.1             | 49.7 | 49.9   | 50.0   | 50.0   | 46.6   | 46.1   | 46.8   | 13168                    | 1748              | 14865         | 55.5                             | 51.6 | 52.6 |
| 02/17 | 50.8                               | 48.7 | 48.5             | 49.0 | 49.1 | 49.2             | 49.6 | 49.8   | 49.9   | 49.8   | 46.6   | 45.9   | 46.8   | 13542                    | 1748              | 15093         | 52.5                             | 50.1 | 50.2 |
| 02/18 | 50.8                               | 48.8 | 48.5             | 49.2 | 49.4 | 49.4             | 50.2 | 50.1   | 50.2   | 50.7   | 46.6   | 45.8   | 46.5   | 11832                    | 1551              | 14932         | 53.5                             | 51.8 | 52.5 |
| 02/19 | 50.7                               | 48.7 | 48.5             | 49.8 | 50.0 | 49.8             | 50.8 | 50.9   | 51.0   | 51.3   | 46.7   | 46.0   | 46.8   | 12758                    | 1743              | 15061         | 55.0                             | 53.3 | 54.1 |
| 02/20 | 50.4                               | 48.4 | 48.6             | 49.3 | 49.5 | ? 49.5           | 50.5 | 51.0   | 51.3   | 51.0   | 46.7   | 46.3   | 47.2   | 16409                    | 1713              | 18564         | 53.0                             | 52.3 | 52.7 |
| 02/21 | 50.6                               | 48.7 | 48.6             | 49.2 | 49.2 | 49.3             | 49.9 | 50.2   | 50.7   | 49.4   | 46.8   | 46.5   | 47.4   | 18930                    | 1771              | 25083         | 53.5                             | 50.4 | 51.1 |
| 02/22 | 50.8                               | 49.0 | 48.6             | 49.4 | 49.4 | 49.5             | 50.1 | 50.5   | 51.0   | 49.6   | 46.9   | 46.9   | 47.9   | 19330                    | 1815              | 31629         | 55.5                             | 51.6 | 53.0 |
| 02/23 | 50.9                               | 49.3 | 48.7             | 49.6 | 49.6 | 49.7             | 50.0 | 50.3   | 50.6   | 50.0   | 46.8   | 46.3   | 47.3   | 19096                    | 1775              | 34827         | 56.0                             | 50.7 | 53.1 |
| 02/24 | 50.9                               | 49.2 | 49.0             | 49.6 | 49.6 | 49.8             | 50.2 | 50.4   | ? 50.9 | 50.3   | 46.9   | 46.5   | 47.5   | 15206                    | 1407              | 35202         | 57.0                             | 52.2 | 54.8 |
| 02/25 | 50.8                               | 49.2 | 48.9             | 49.6 | 49.6 | 49.8             | 50.2 | 50.4   | 50.9   | 50.3   | 47.0   | 46.7   | 47.5   | 14462                    | 1299              | 35295         | 56.0                             | 52.0 | 54.7 |
| 02/26 | 50.7                               | 49.0 | 48.9             | 49.4 | 49.4 | 49.5             | 50.0 | 50.4   | 50.8   | 49.8   | 46.9   | 46.5   | 47.4   | 19362                    | 1711              | 35276         | 55.5                             | 52.0 | 54.7 |
| 02/27 | 50.6                               | 49.0 | 49.1             | 49.3 | 49.3 | 49.4             | 49.6 | 49.7   | 50.0   | 48.7   | 46.8   | 44.5   | 45.4   | 17139                    | 1688              | 30874         | 54.0                             | 49.0 | 50.7 |
| 02/28 | 50.7                               | 49.0 | 49.4             | 49.4 | 49.4 | 49.6             | 49.8 | 49.8   | 50.2   | 49.2   | 47.1   | 45.1   | 45.6   | 19126                    | 1730              | 26199         | 50.5                             | 48.6 | 52.8 |
| 02/29 | 50.6                               | 48.6 | 49.3             | 49.3 | 49.3 | 49.5             | 49.9 | 50.2   | 50.3   | 49.4   | 47.2   | 46.7   | 47.2   | 19198                    | 1750              | 22272         | 54.0                             | 53.3 | 54.2 |
| -     |                                    |      |                  |      |      |                  |      |        |        |        |        |        |        |                          |                   |               |                                  |      |      |
| -     |                                    |      |                  |      |      |                  |      |        |        |        |        |        |        |                          |                   |               |                                  |      |      |
| Feb   | 50.4                               | 49.0 | 48.8             | 49.3 | 49.3 | 49.4             | 49.8 | 49.8   | 50.0   | 49.3   | 46.5   | 45.4   | 46.2   | 14954                    | 1679              | 19871         | 51.8                             | 48.8 | 50.2 |
|       |                                    |      |                  |      |      |                  |      |        |        |        |        |        |        | Total CFS                | 433659            | 48677         | 576252                           |      |      |
|       |                                    |      |                  |      |      |                  |      |        |        |        |        |        |        | Total AF                 | 860145            | 96549         | 1142972                          |      |      |

**Legend**

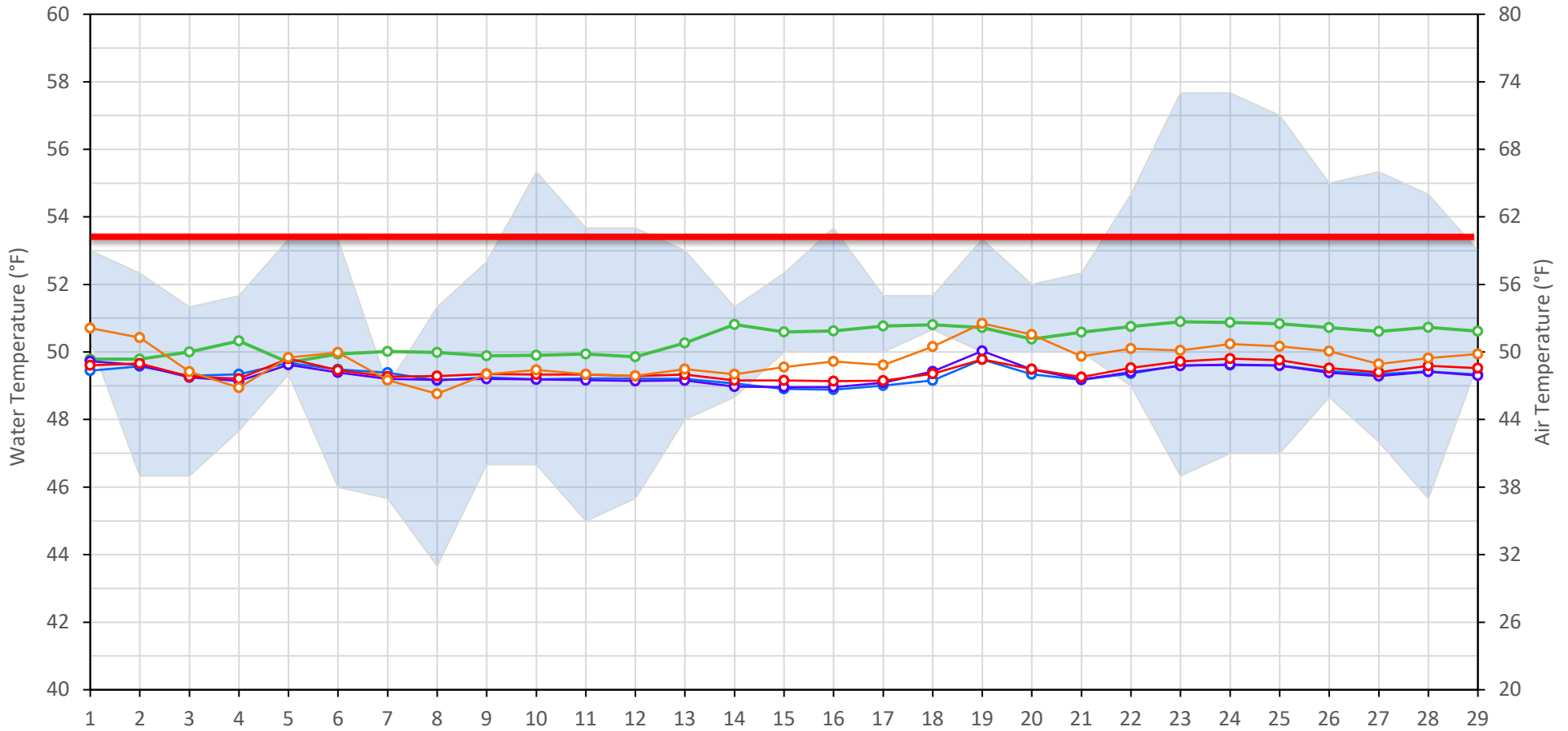
- ? = 1-9 hours of data missing (Average includes estimations)
- ! = 10 or more hours of data missing (Average not calculated)
- # = Station out of service
- ↑ = Record high air temperature
- ↓ = Record low air temperature
- = Monthly Averages

**Notes**

- <sup>1</sup> 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
- <sup>2</sup> Current Clear Creek River control point (see page 3 for more details)

### Sacramento River Mean Daily Temperatures

Redding Air (Observed and Forecasted) TCD KWK SAC CCR BSF



| Station Details |                  |  |                            |
|-----------------|------------------|--|----------------------------|
| Code            | Body of Water    | Location <sup>1</sup>                      | CDEC Link                  |
| TCD             | N/A              | Shasta Power Plant                         | N/A                        |
| SHD             | Sacramento River | 0.3 miles downstream of Shasta Power Plant | <a href="#">Click Here</a> |
| SPP             | N/A              | Spring Creek Power Plant                   | N/A                        |
| KWK             | Sacramento River | 0.8 miles downstream of Keswick Dam        | <a href="#">Click Here</a> |
| SAC             | Sacramento River | 4.8 miles downstream of Keswick Dam        | <a href="#">Click Here</a> |
| CCR             | Sacramento River | 9.7 miles downstream of Keswick Dam        | <a href="#">Click Here</a> |
| BSF             | Sacramento River | 25 miles downstream of Keswick Dam         | <a href="#">Click Here</a> |
| JLF             | Sacramento River | 34 miles downstream of Keswick Dam         | <a href="#">Click Here</a> |
| BND             | Sacramento River | 41 miles downstream of Keswick Dam         | <a href="#">Click Here</a> |
| RDB             | Sacramento River | 58 miles downstream of Keswick Dam         | <a href="#">Click Here</a> |
| IGO             | Clear Creek      | 7.3 miles downstream of Whiskeytown Dam    | <a href="#">Click Here</a> |

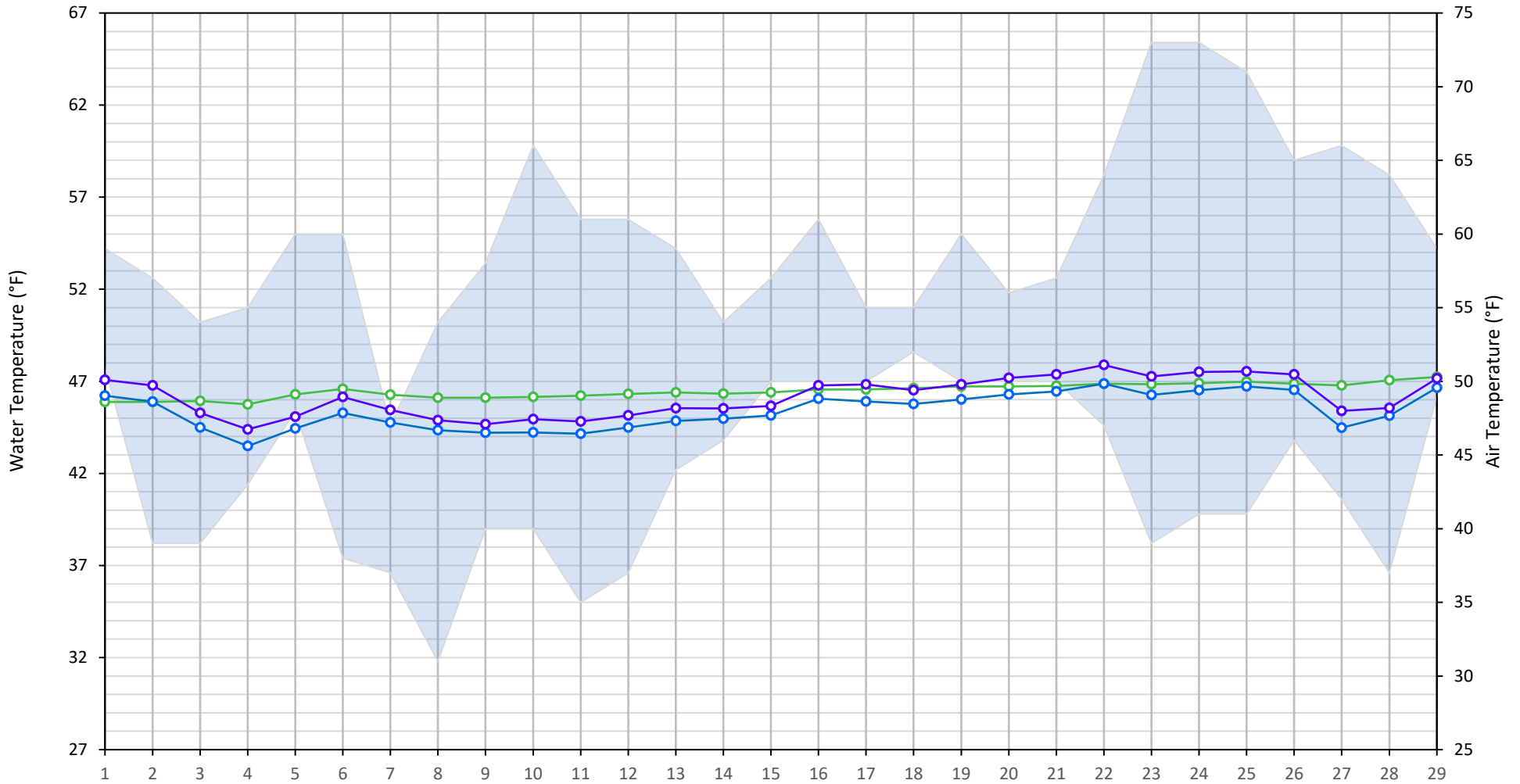
| Water Right Temperature Control Points |       |            |            |          |
|--|-------|------------|------------|----------|
| River                                  | Point | Temp. (°F) | Begin Date | End Date |
| Sacramento                             | CCR   | 53.5       | 05/14/2023 | TBD      |
|  |       |            |            |          |
|  |       |            |            |          |
|  |       |            |            |          |
|  |       |            |            |          |
|  |       |            |            |          |

**Notes**

<sup>1</sup> Distances are approximate

# Trinity River Mean Daily Temperatures

Redding Air (Observed and Forecasted) LWS DGC NFH



| Station Details |               |                                      |                            |
|-----------------|---------------|--------------------------------------|----------------------------|
| Code            | Body of Water | Location <sup>1</sup>                | CDEC Link                  |
| LWS             | Trinity River | 1.1 miles downstream of Lewiston Dam | <a href="#">Click Here</a> |
| DGC             | Trinity River | 19 miles downstream of Lewiston Dam  | <a href="#">Click Here</a> |
| NFH             | Trinity River | 38 miles downstream of Lewiston Dam  | <a href="#">Click Here</a> |

| Water Right Temperature Control Points |       |            |            |          |
|--|-------|------------|------------|----------|
| River                                  | Point | Temp. (°F) | Begin Date | End Date |
|  |       |            |            |          |
|  |       |            |            |          |

**Notes**

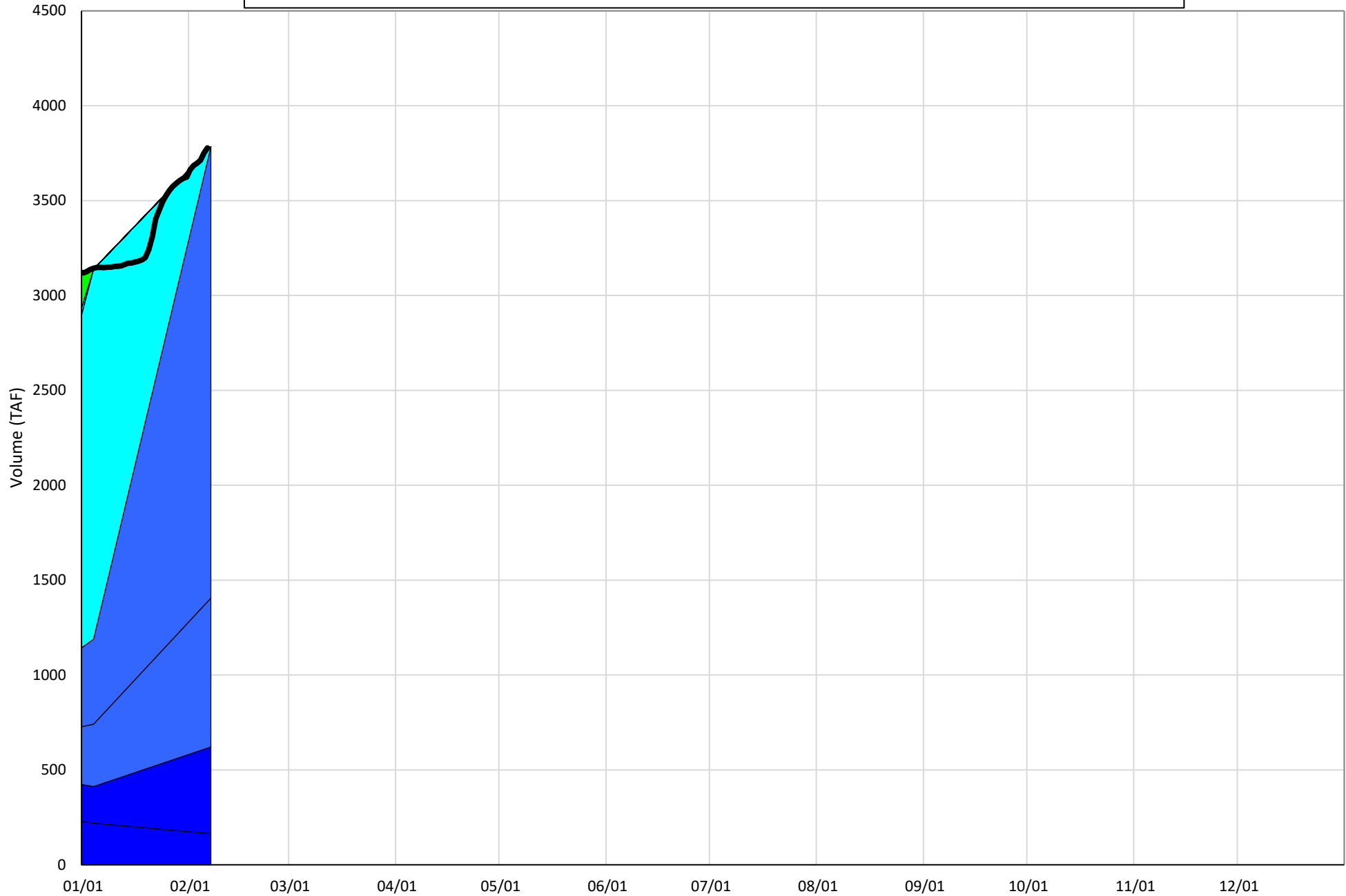
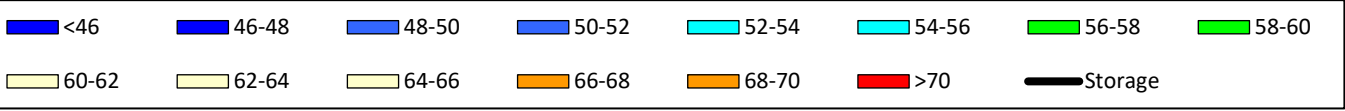
<sup>1</sup> Distances are approximate

# Shasta Lake Isothermobaths & Cold Water Pool Statistics

## 2024

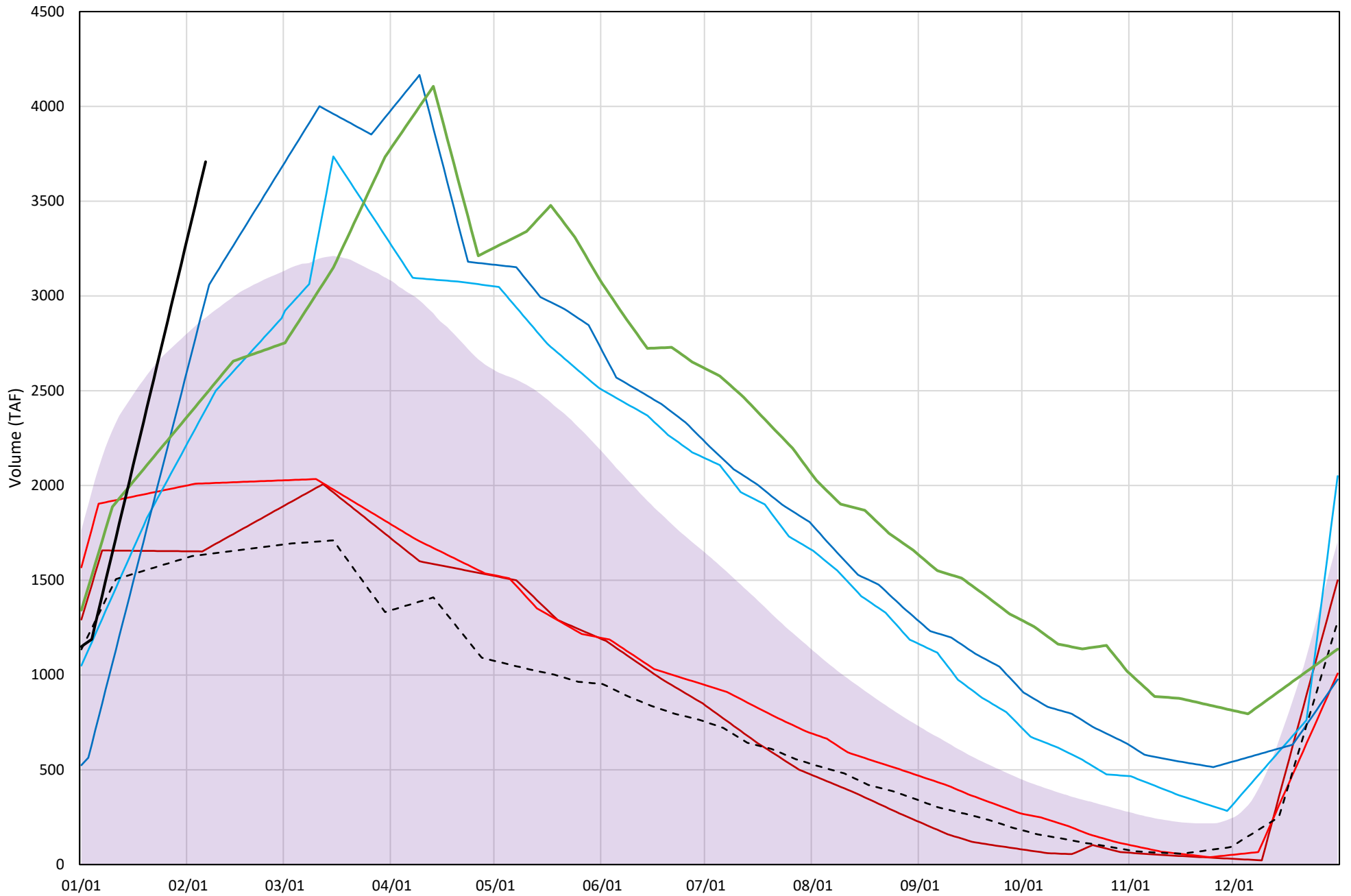
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Shasta Lake Isothermobaths Plot - 2024

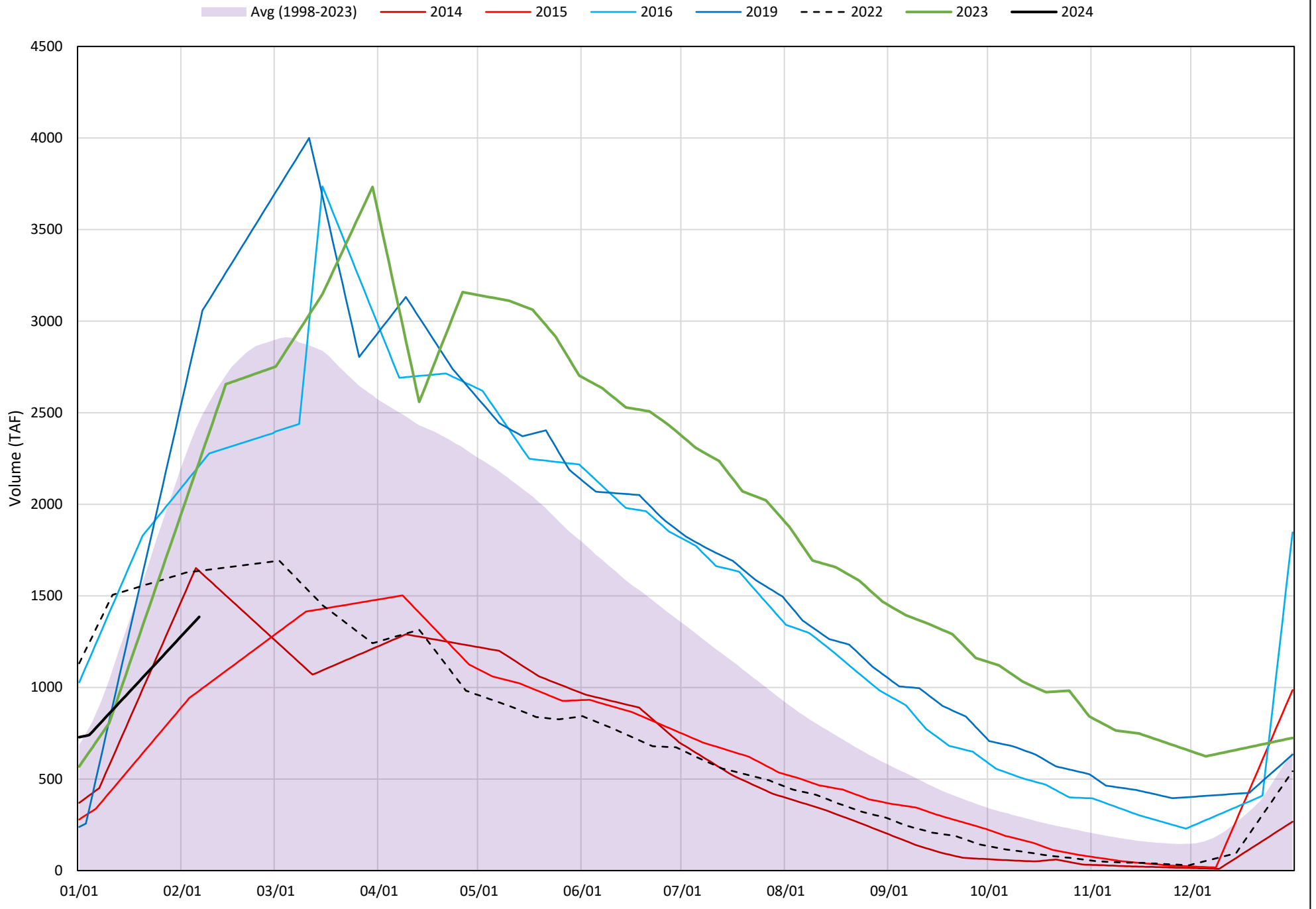


# Shasta Lake Cold Water Pool Volume ≤52°F

Avg (1998-2023) 2014 2015 2016 2019 2022 2023 2024



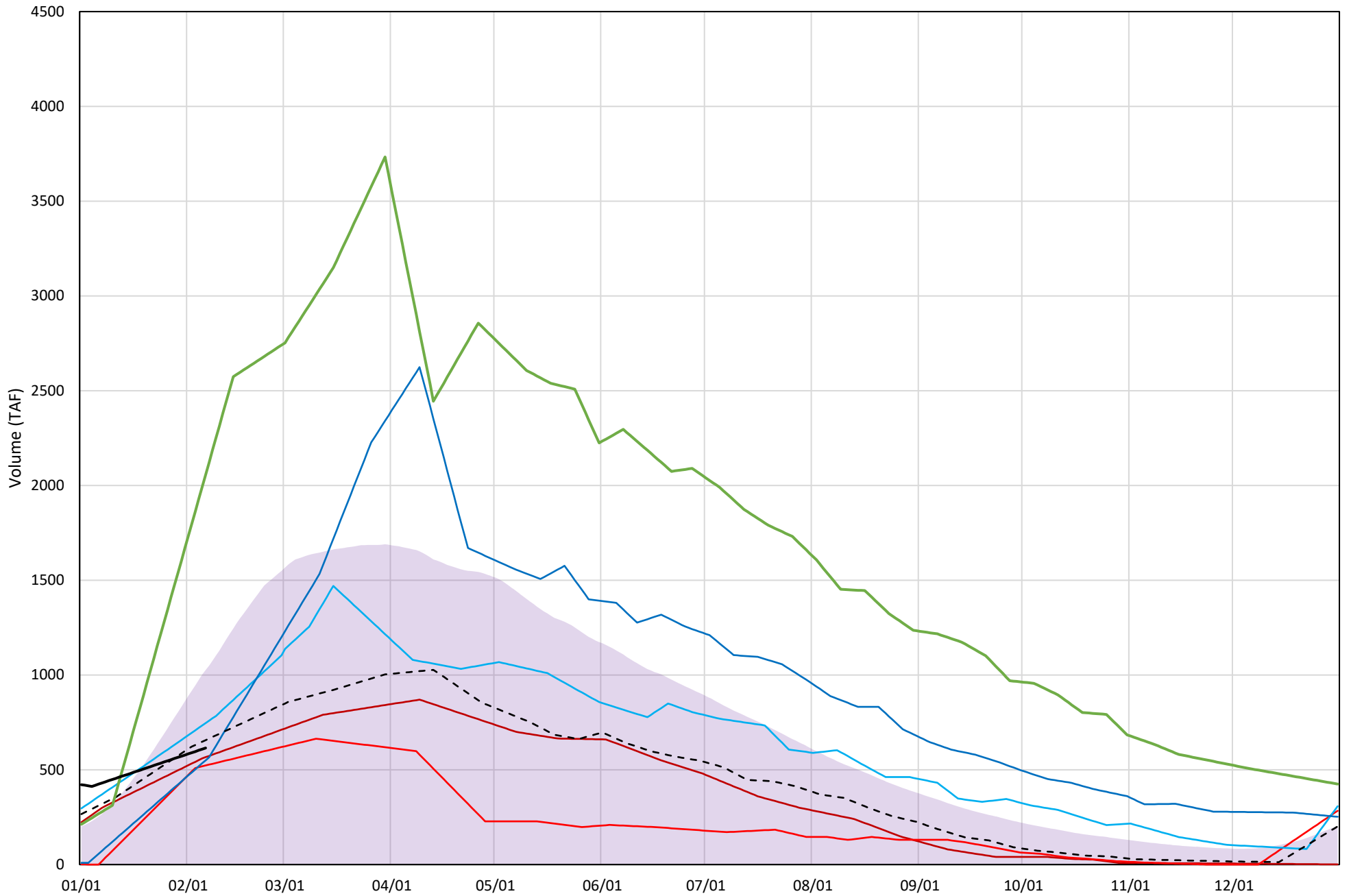
# Shasta Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$





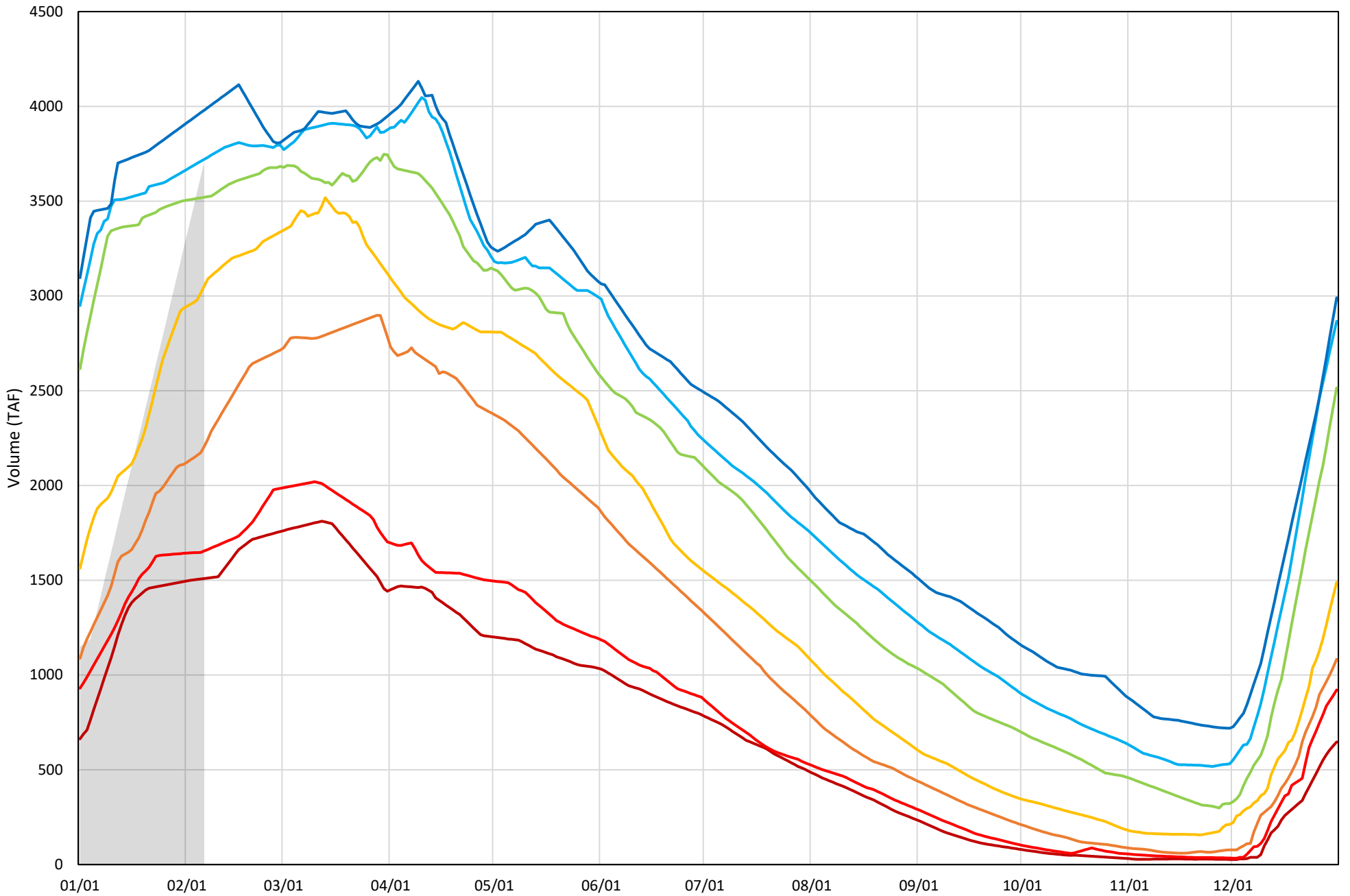
# Shasta Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$

Avg (1998-2023) 2014 2015 2016 2019 2022 2023 2024



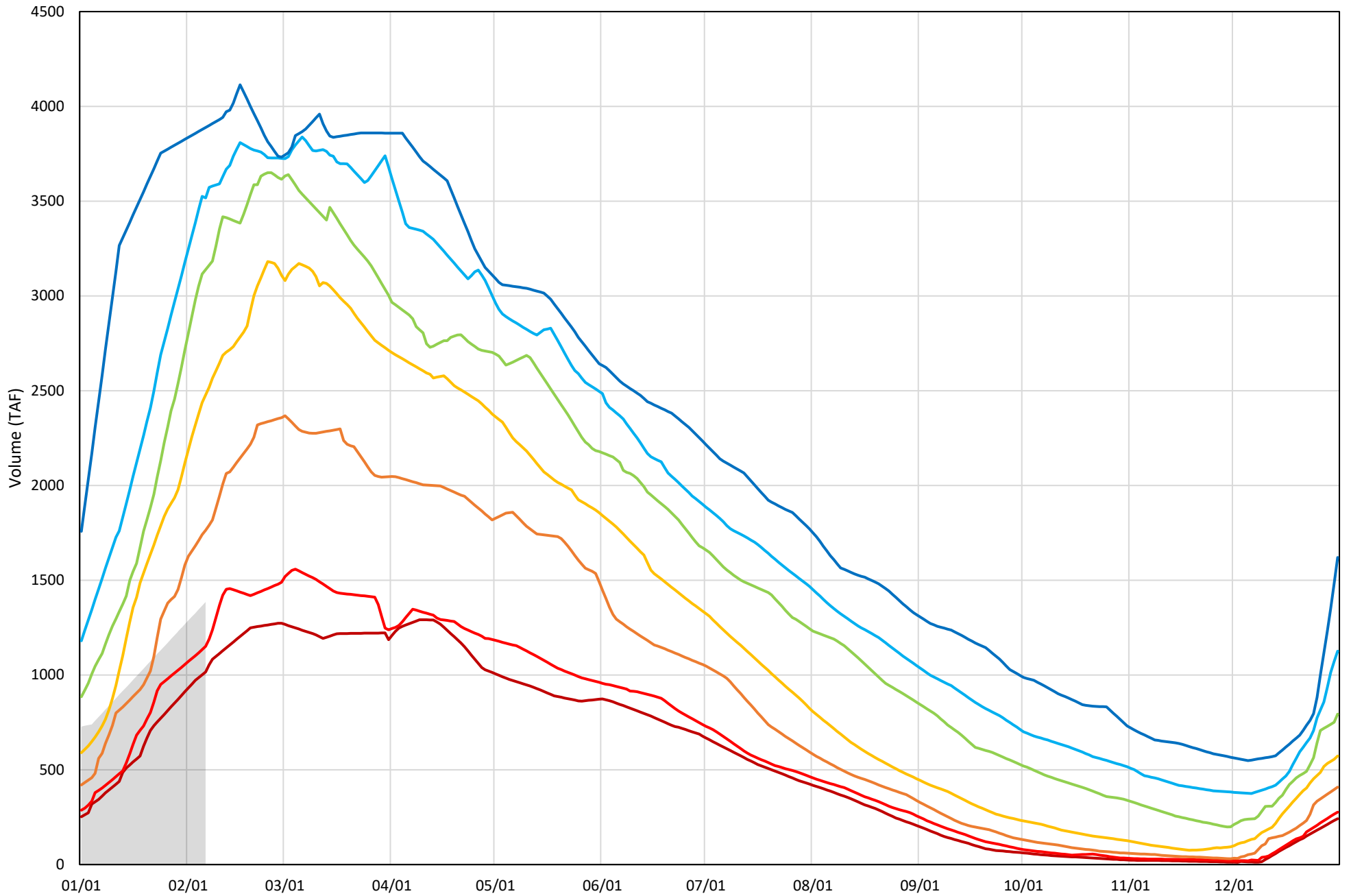
Shasta Lake Cold Water Pool Volume  $\leq 52^{\circ}\text{F}$  - Percent Exceedances (1998-2023)

2024 95 90 75 50 25 10 5



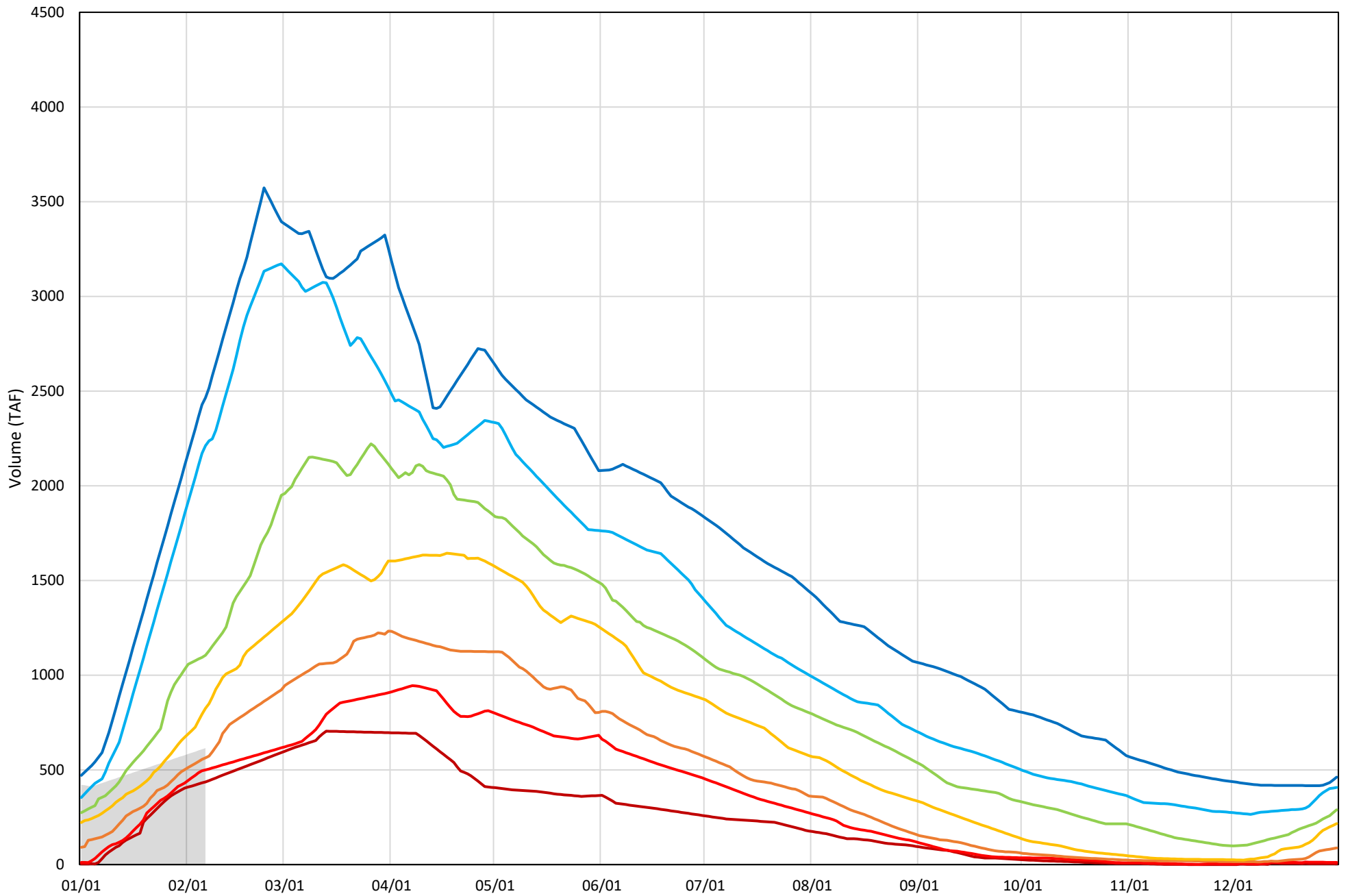
Shasta Lake Cold Water Pool Volume  $\leq 50^{\circ}\text{F}$  - Percent Exceedances (1998-2023)

2024 95 90 75 50 25 10 5



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

2024 95 90 75 50 25 10 5



### Shasta Lake Cold Water Pool Comparison by Year (for Specified Date)

| Feb-07<br>2024 | Δ TAF |      |      |           | % Δ  |      |      |           |
|----------------|-------|------|------|-----------|------|------|------|-----------|
|                | ≤52°  | ≤50° | ≤48° | Abs. Avg. | ≤52° | ≤50° | ≤48° | Abs. Avg. |
| 1998           | -1498 | 803  | -183 | 828       | -40  | 58   | -30  | 43        |
| 1999           | -156  | 1365 | 1973 | 1165      | -4   | 99   | 321  | 141       |
| 2000           | 150   | 1475 | 54   | 560       | 4    | 106  | 9    | 40        |
| 2001           | -535  | 654  | 1229 | 806       | -14  | 47   | 200  | 87        |
| 2002           | -111  | 2211 | 422  | 915       | -3   | 160  | 69   | 77        |
| 2003           | -217  | 1302 | 365  | 628       | -6   | 94   | 59   | 53        |
| 2004           | -45   | 1815 | 94   | 651       | -1   | 131  | 15   | 49        |
| 2005           | -829  | 1427 | 235  | 831       | -22  | 103  | 38   | 55        |
| 2006           | -148  | 2079 | 193  | 806       | -4   | 150  | 31   | 62        |
| 2007           | -335  | 1988 | 385  | 902       | -9   | 143  | 63   | 72        |
| 2008           | -1441 | 882  | 1624 | 1315      | -39  | 64   | 264  | 122       |
| 2009           | -2268 | 55   | -59  | 794       | -61  | 4    | -10  | 25        |
| 2010           | -972  | 1350 | 232  | 852       | -26  | 97   | 38   | 54        |
| 2011           | -197  | 420  | 229  | 282       | -5   | 30   | 37   | 24        |
| 2012           | -589  | 1733 | 412  | 911       | -16  | 125  | 67   | 69        |
| 2013           | -204  | 2098 | 695  | 999       | -5   | 151  | 113  | 90        |
| 2014           | -2046 | 250  | -48  | 781       | -55  | 18   | -8   | 27        |
| 2015           | -1697 | -403 | -92  | 731       | -46  | -29  | -15  | 30        |
| 2016           | -1308 | 825  | 131  | 755       | -35  | 60   | 21   | 39        |
| 2017           | 339   | 2661 | 1585 | 1528      | 9    | 192  | 258  | 153       |
| 2018           | -1511 | -308 | -170 | 663       | -41  | -22  | -28  | 30        |
| 2019           | -720  | 1593 | -65  | 793       | -19  | 115  | -11  | 48        |
| 2020           | -205  | -202 | 39   | 148       | -6   | -15  | 6    | 9         |
| 2021           | -1532 | 563  | -75  | 724       | -41  | 41   | -12  | 31        |
| 2022           | -2071 | 251  | 42   | 788       | -56  | 18   | 7    | 27        |
| 2023           | -1227 | 848  | 1442 | 1172      | -33  | 61   | 234  | 110       |
| 2024           | 0     | 0    | 0    | 0         | 0    | 0    | 0    | 0         |

Historical - Current

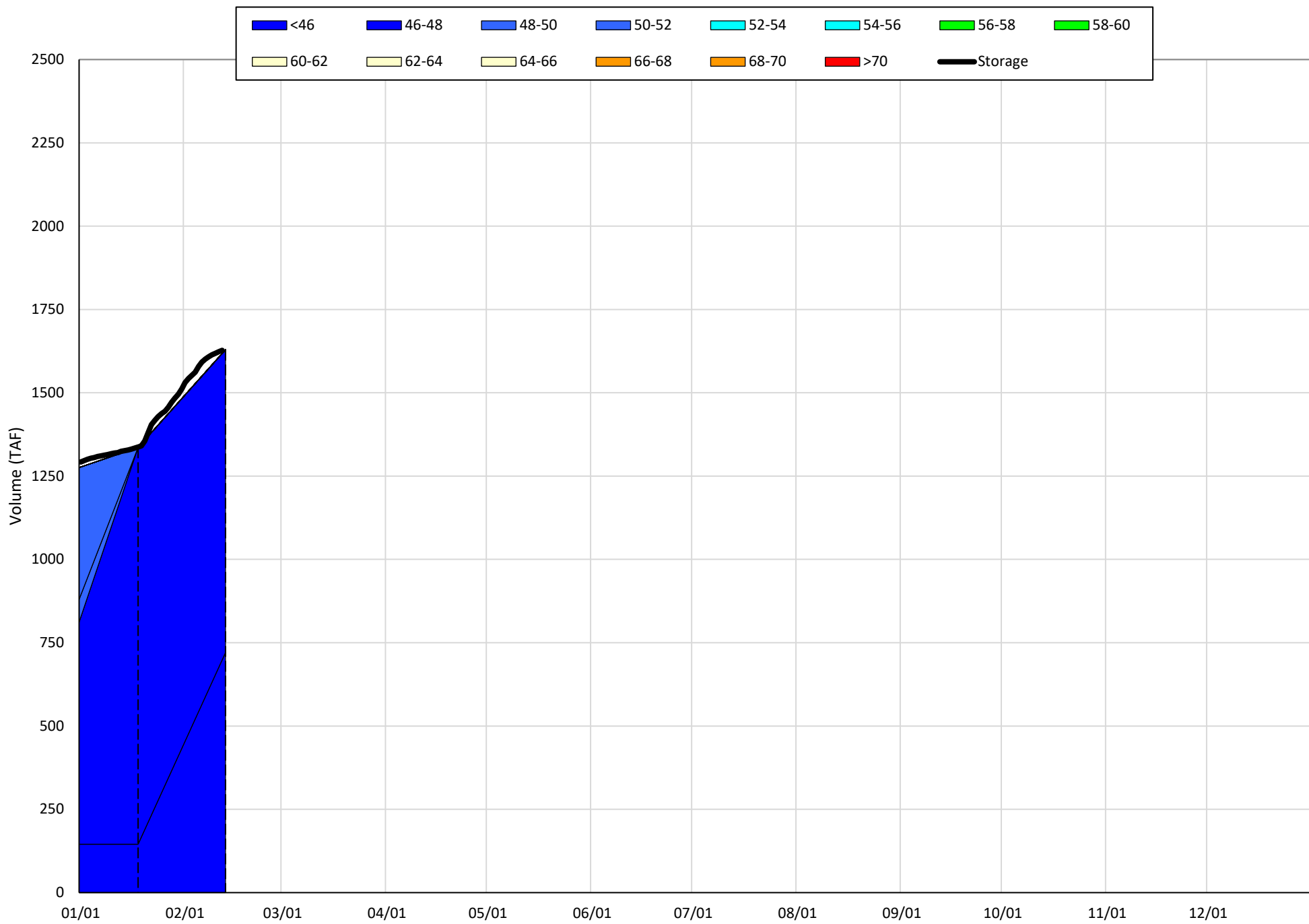
(Historical - Current) / Current

# Trinity Lake Isothermobaths & Cold Water Pool Statistics

## 2024

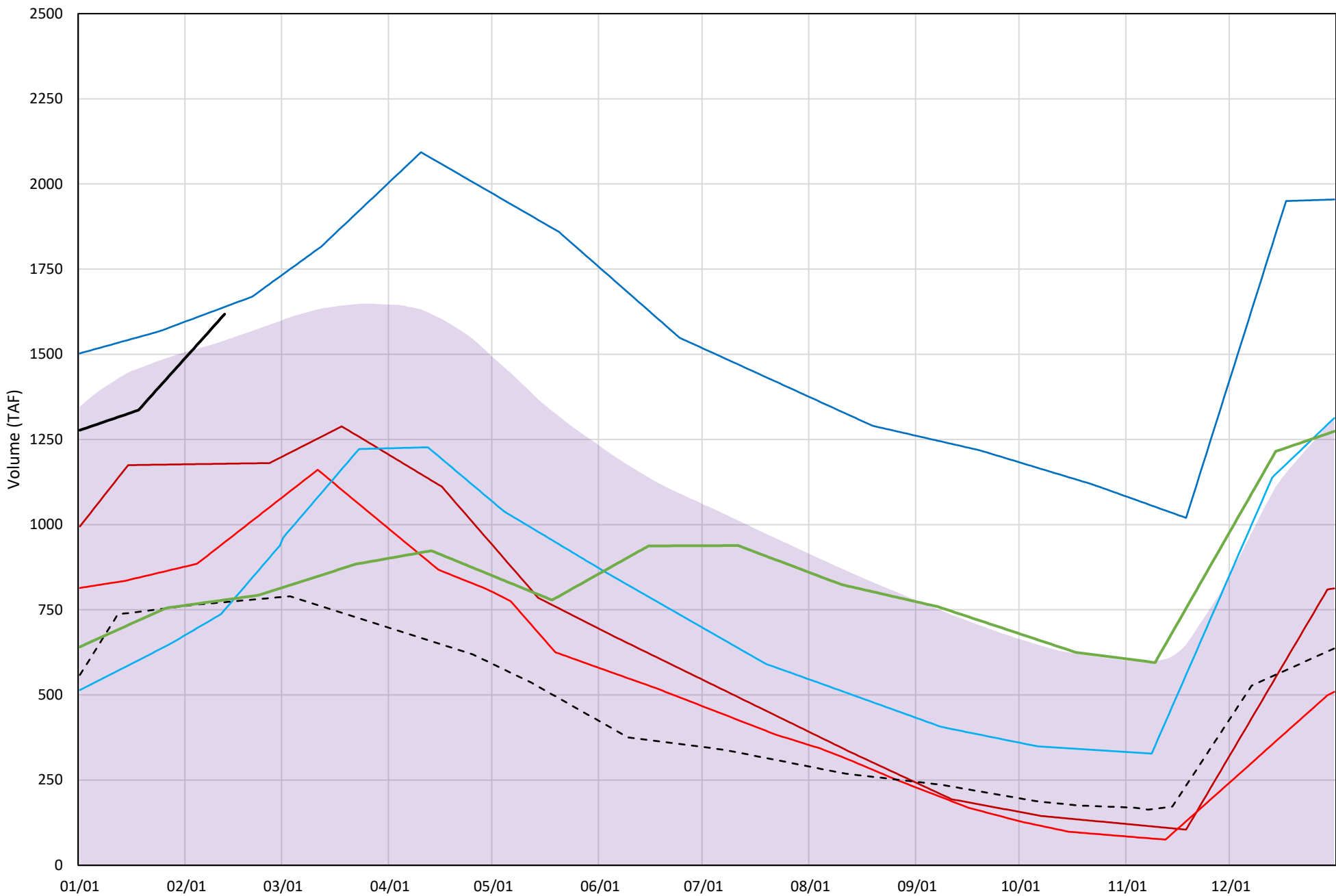
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| 18   | - Trinity Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$                       |
| 19   | - Trinity Lake Cold Water Pool Volume $\leq 52^{\circ}\text{F}$ - Percent Exceedances |
| 20   | - Trinity Lake Cold Water Pool Volume $\leq 50^{\circ}\text{F}$ - Percent Exceedances |
| 21   | - Trinity Lake Cold Water Pool Volume $\leq 48^{\circ}\text{F}$ - Percent Exceedances |
| 22   | - Trinity Lake Cold Water Pool Comparison by Year                                     |

### Trinity Lake Isothermobaths Plot - 2024



# Trinity Lake Cold Water Pool Volume ≤52°F

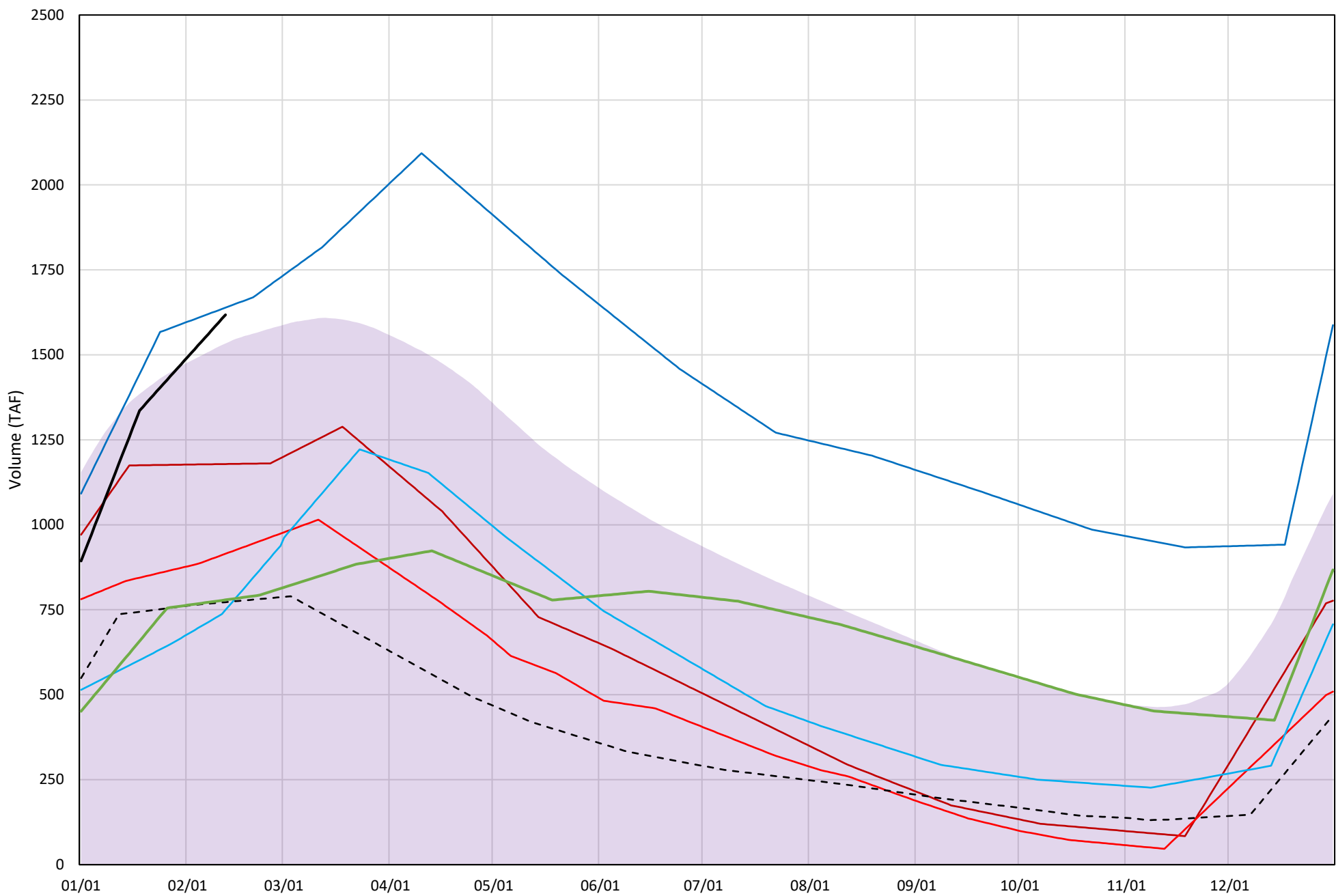
Avg (2000-2023) 2014 2015 2016 2019 2022 2023 2024





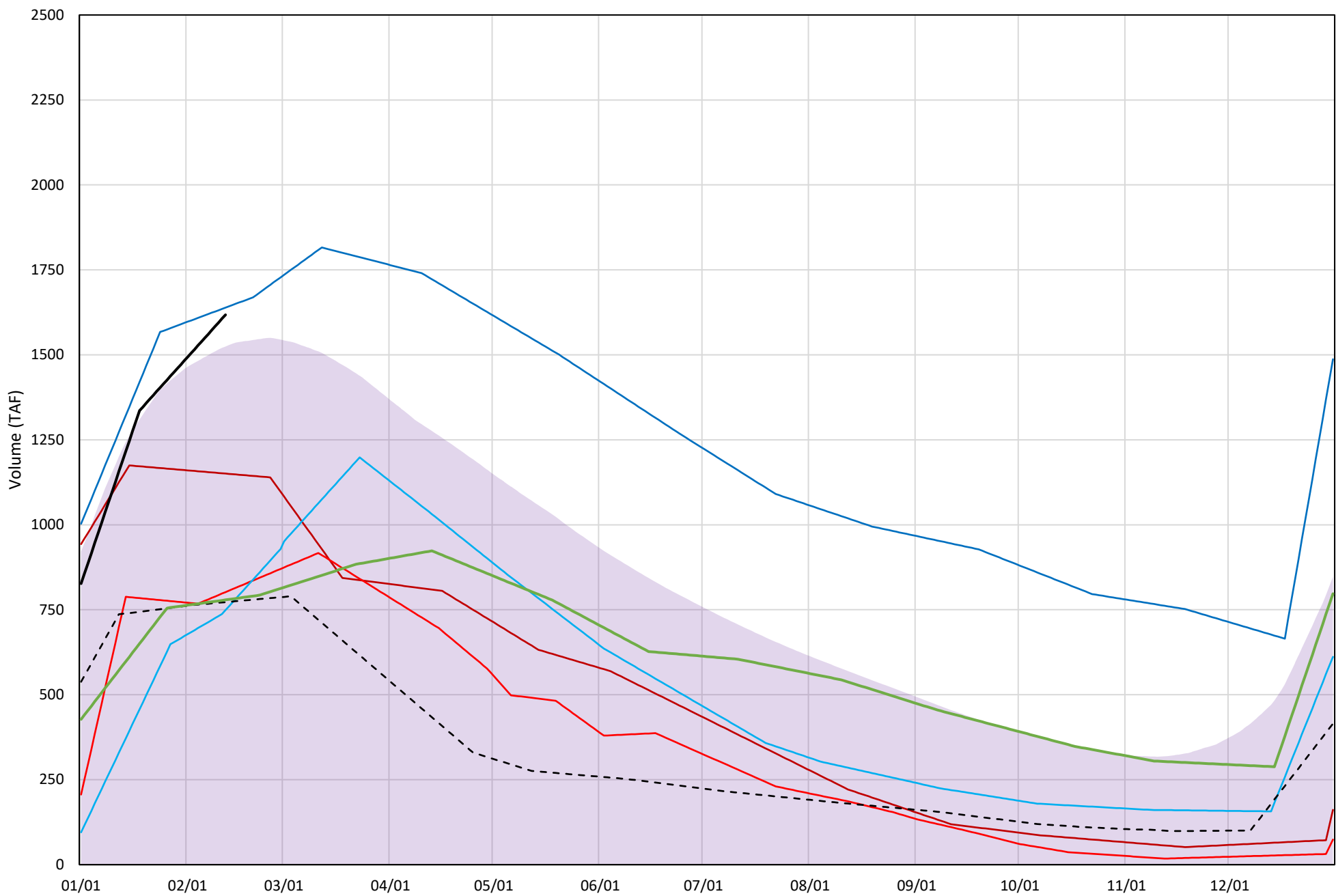
# Trinity Lake Cold Water Pool Volume ≤50°F

Avg (2000-2023) 2014 2015 2016 2019 2022 2023 2024



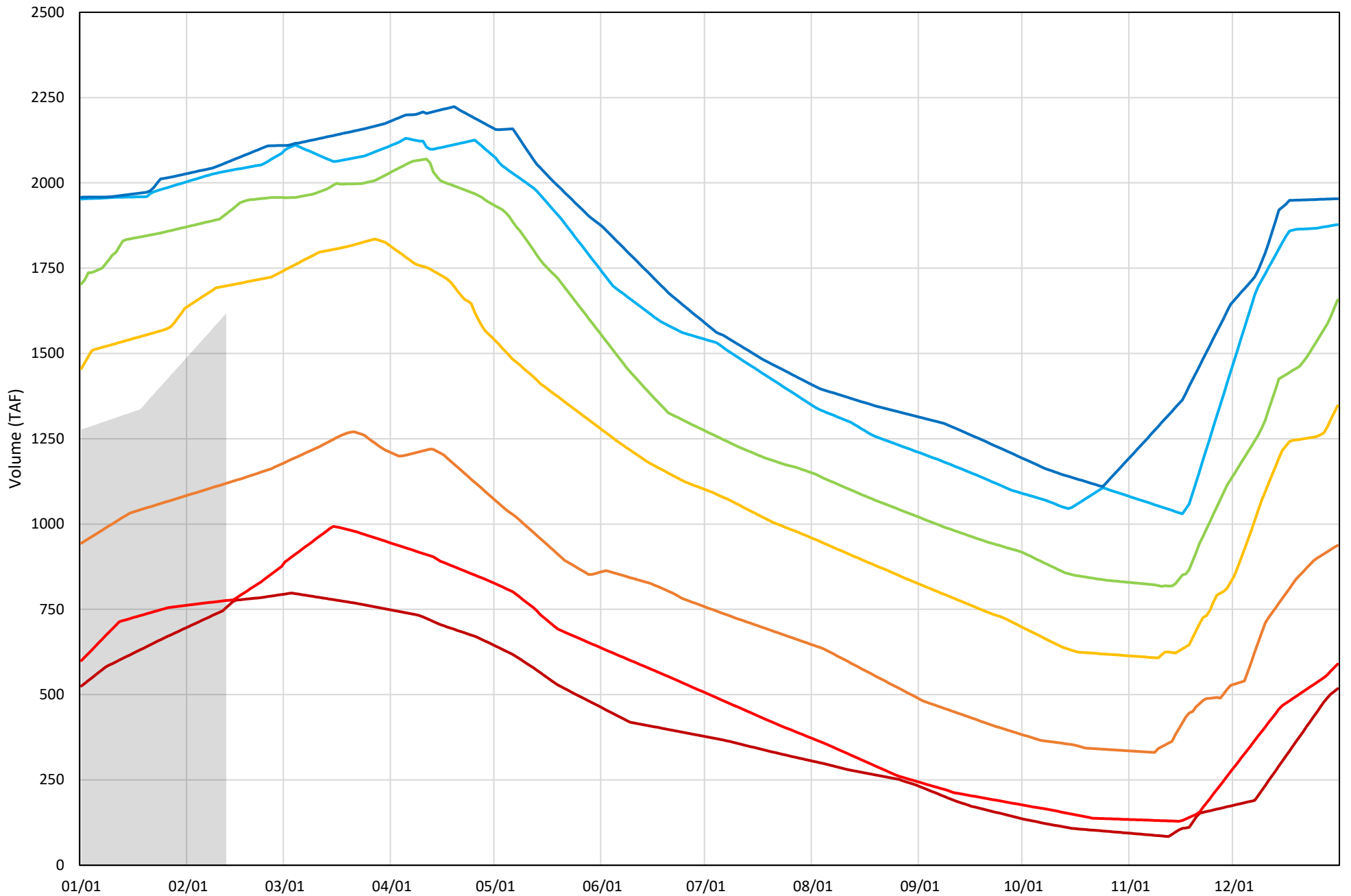
# Trinity Lake Cold Water Pool Volume ≤48°F

Avg (2000-2023) 2014 2015 2016 2019 2022 2023 2024



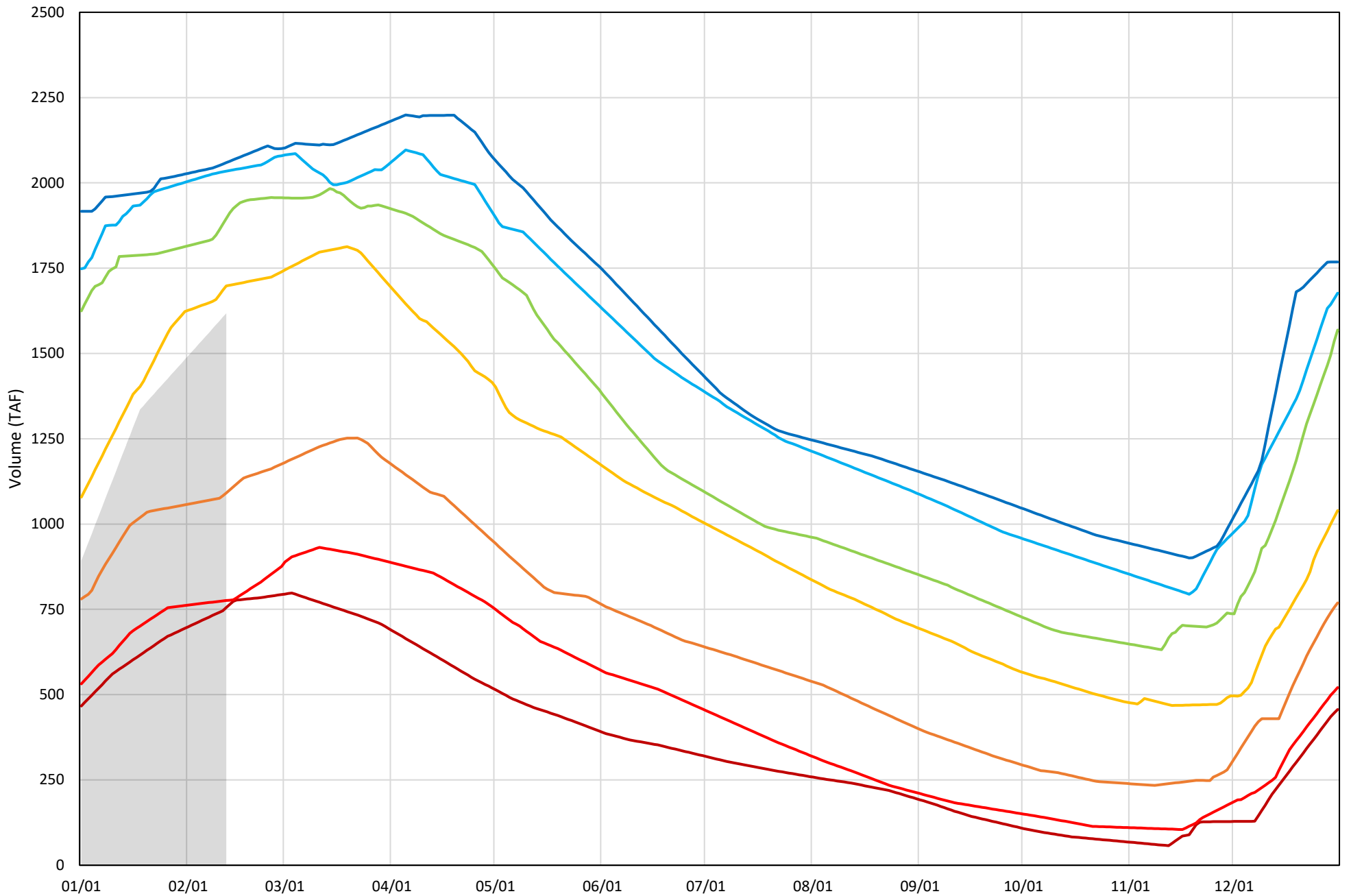
Trinity Lake Cold Water Pool Volume  $\leq 52^{\circ}\text{F}$  - Percent Exceedances (2000-2023)

2024 95 90 75 50 25 10 5



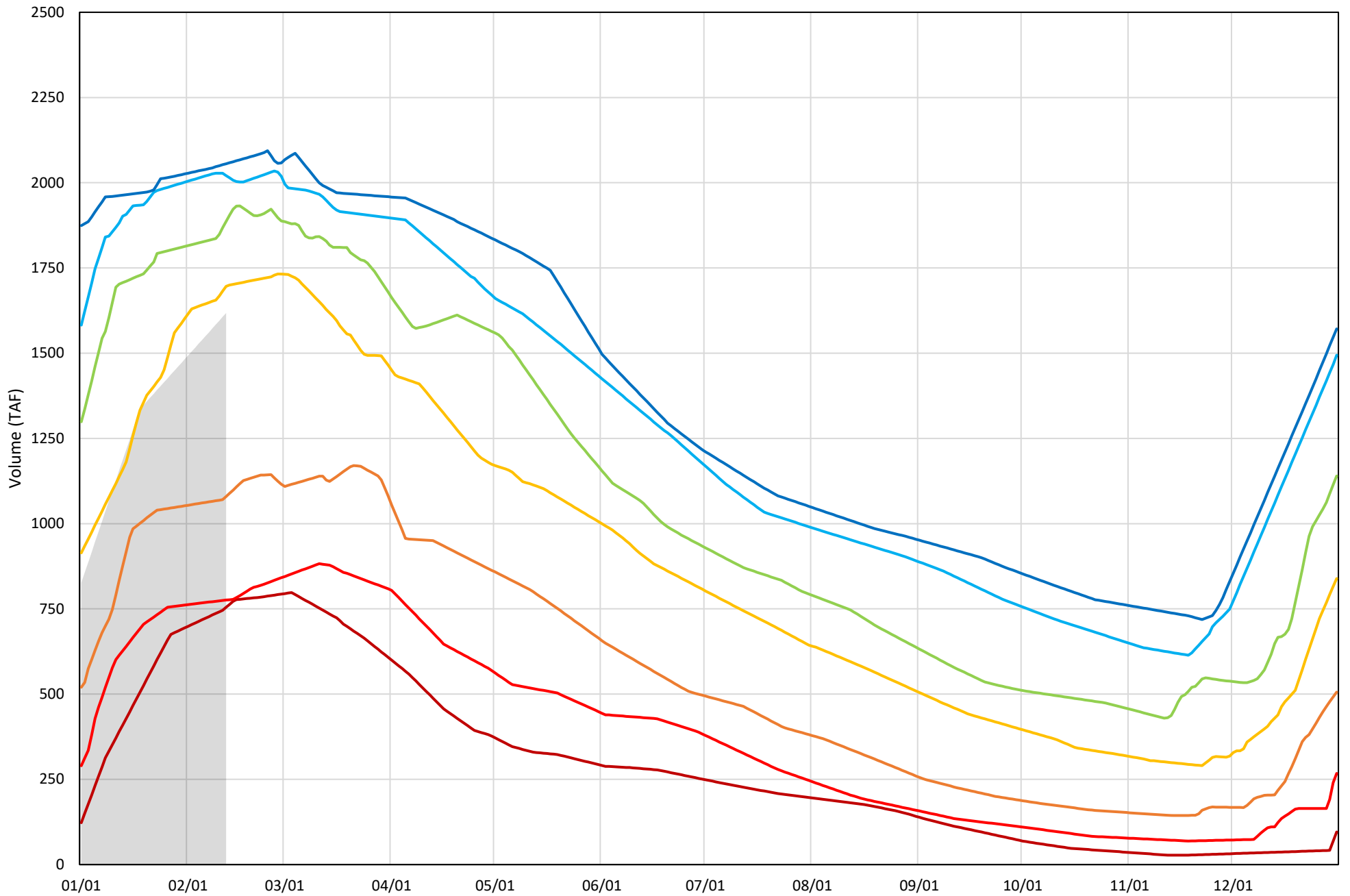
Trinity Lake Cold Water Pool Volume ≤50°F - Percent Exceedances (2000-2023)

2024 95 90 75 50 25 10 5



Trinity Lake Cold Water Pool Volume  $\leq 48^{\circ}\text{F}$  - Percent Exceedances (2000-2023)

2024 95 90 75 50 25 10 5



### Trinity Cold Water Pool Comparison by Year (for Specified Date)

| Feb-13<br>2024 | Δ TAF |      |      |           | % Δ  |      |      |           |
|----------------|-------|------|------|-----------|------|------|------|-----------|
|                | ≤52°  | ≤50° | ≤48° | Abs. Avg. | ≤52° | ≤50° | ≤48° | Abs. Avg. |
| 2000           | 443   | 443  | 443  | 443       | 27   | 27   | 27   | 27        |
| 2001           | 84    | 84   | 84   | 84        | 5    | 5    | 5    | 5         |
| 2002           | 77    | 77   | 77   | 77        | 5    | 5    | 5    | 5         |
| 2003           | 231   | 231  | 219  | 227       | 14   | 14   | 14   | 14        |
| 2004           | 311   | 311  | 311  | 311       | 19   | 19   | 19   | 19        |
| 2005           | 5     | -12  | -21  | 13        | 0    | -1   | -1   | 1         |
| 2006           | 437   | 437  | 422  | 432       | 27   | 27   | 26   | 27        |
| 2007           | 229   | 229  | 229  | 229       | 14   | 14   | 14   | 14        |
| 2008           | -167  | -167 | -167 | 167       | -10  | -10  | -10  | 10        |
| 2009           | -572  | -572 | -572 | 572       | -35  | -35  | -35  | 35        |
| 2010           | -518  | -556 | -562 | 545       | -32  | -34  | -35  | 34        |
| 2011           | 220   | 220  | 220  | 220       | 14   | 14   | 14   | 14        |
| 2012           | 353   | 293  | 282  | 309       | 22   | 18   | 17   | 19        |
| 2013           | 339   | 339  | 339  | 339       | 21   | 21   | 21   | 21        |
| 2014           | -439  | -439 | -467 | 448       | -27  | -27  | -29  | 28        |
| 2015           | -670  | -703 | -816 | 729       | -41  | -43  | -50  | 45        |
| 2016           | -868  | -868 | -869 | 869       | -54  | -54  | -54  | 54        |
| 2017           | 111   | 84   | 80   | 92        | 7    | 5    | 5    | 6         |
| 2018           | 168   | 168  | 168  | 168       | 10   | 10   | 10   | 10        |
| 2019           | 21    | 21   | 21   | 21        | 1    | 1    | 1    | 1         |
| 2020           | 397   | 397  | 384  | 392       | 25   | 25   | 24   | 24        |
| 2021           | -354  | -354 | -354 | 354       | -22  | -22  | -22  | 22        |
| 2022           | -845  | -845 | -845 | 845       | -52  | -52  | -52  | 52        |
| 2023           | -839  | -839 | -839 | 839       | -52  | -52  | -52  | 52        |
| 2024           | 0     | 0    | 0    | 0         | 0    | 0    | 0    | 0         |

Historical - Current

(Historical - Current) / Current

# Whiskeytown Lake Isothermobaths & Cold Water Pool Statistics

## 2024

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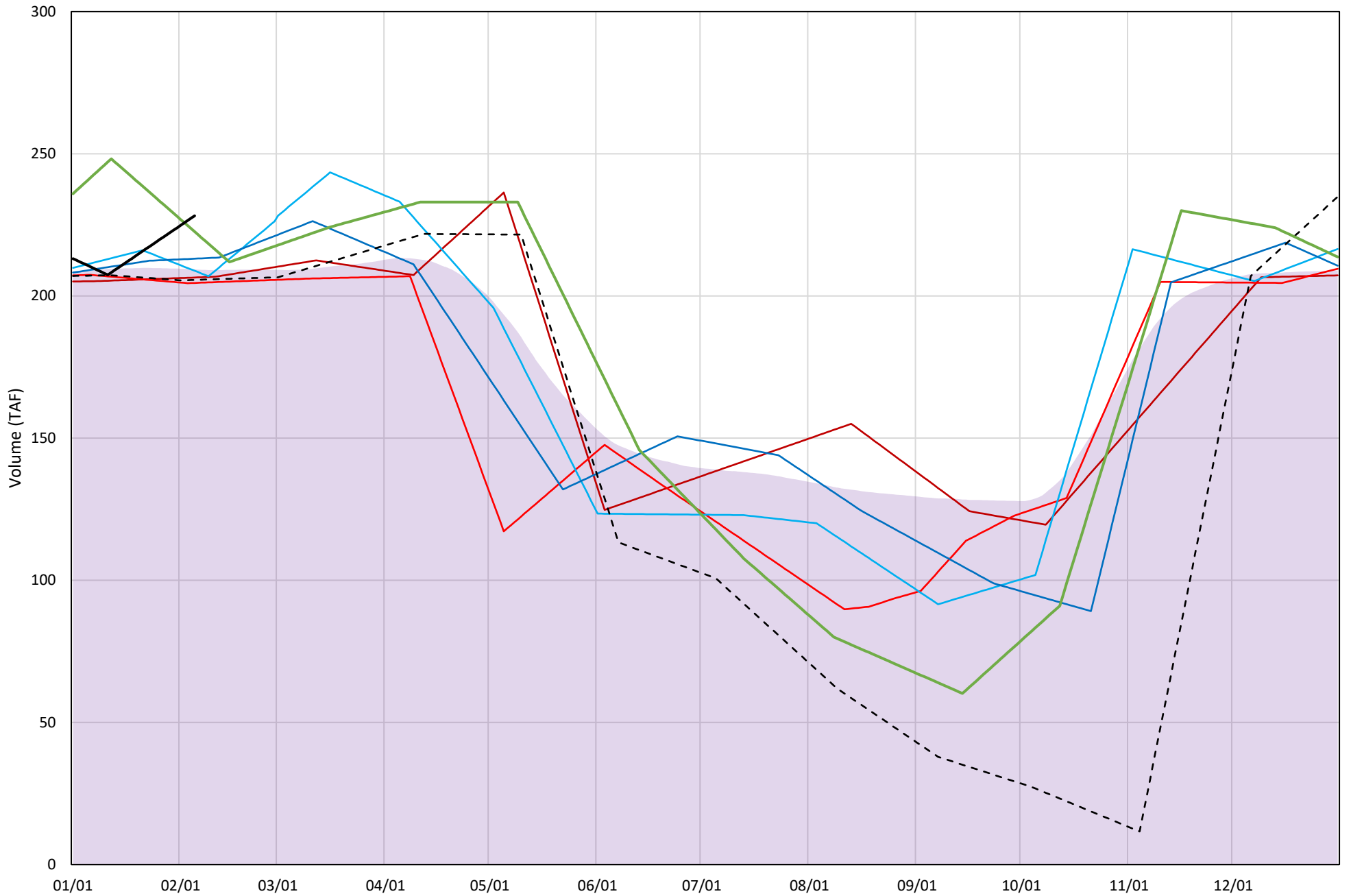
# Whiskeytown Lake Isothermobaths Plot - 2024





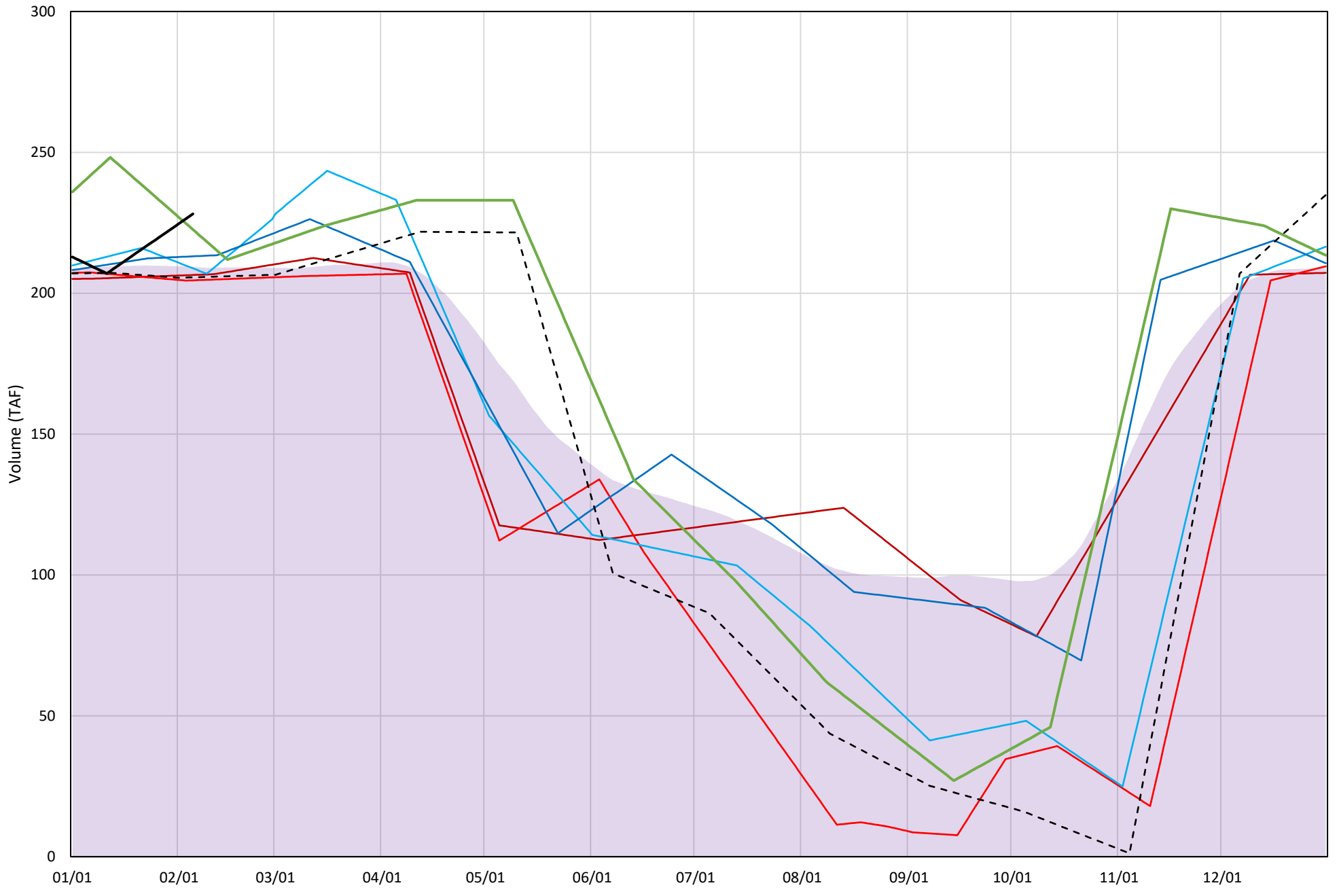
# Whiskeytown Lake Cold Water Pool Volume $\leq 60^{\circ}\text{F}$

Avg (2000-2023) 2014 2015 2016 2019 2022 2023 2024



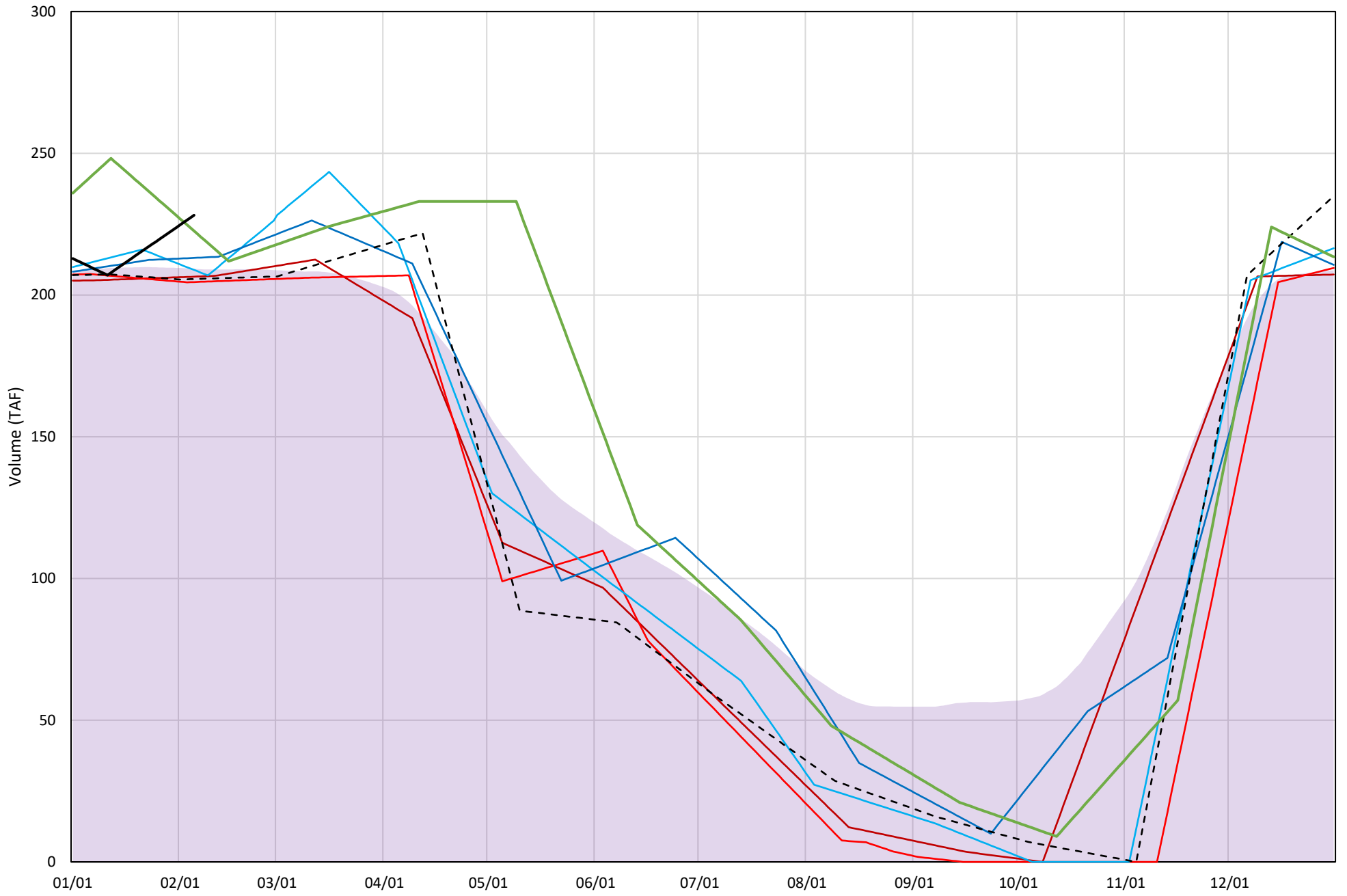
# Whiskeytown Lake Cold Water Pool Volume $\leq 58^{\circ}\text{F}$

Avg (2000-2023) 2014 2015 2016 2019 2022 2023 2024



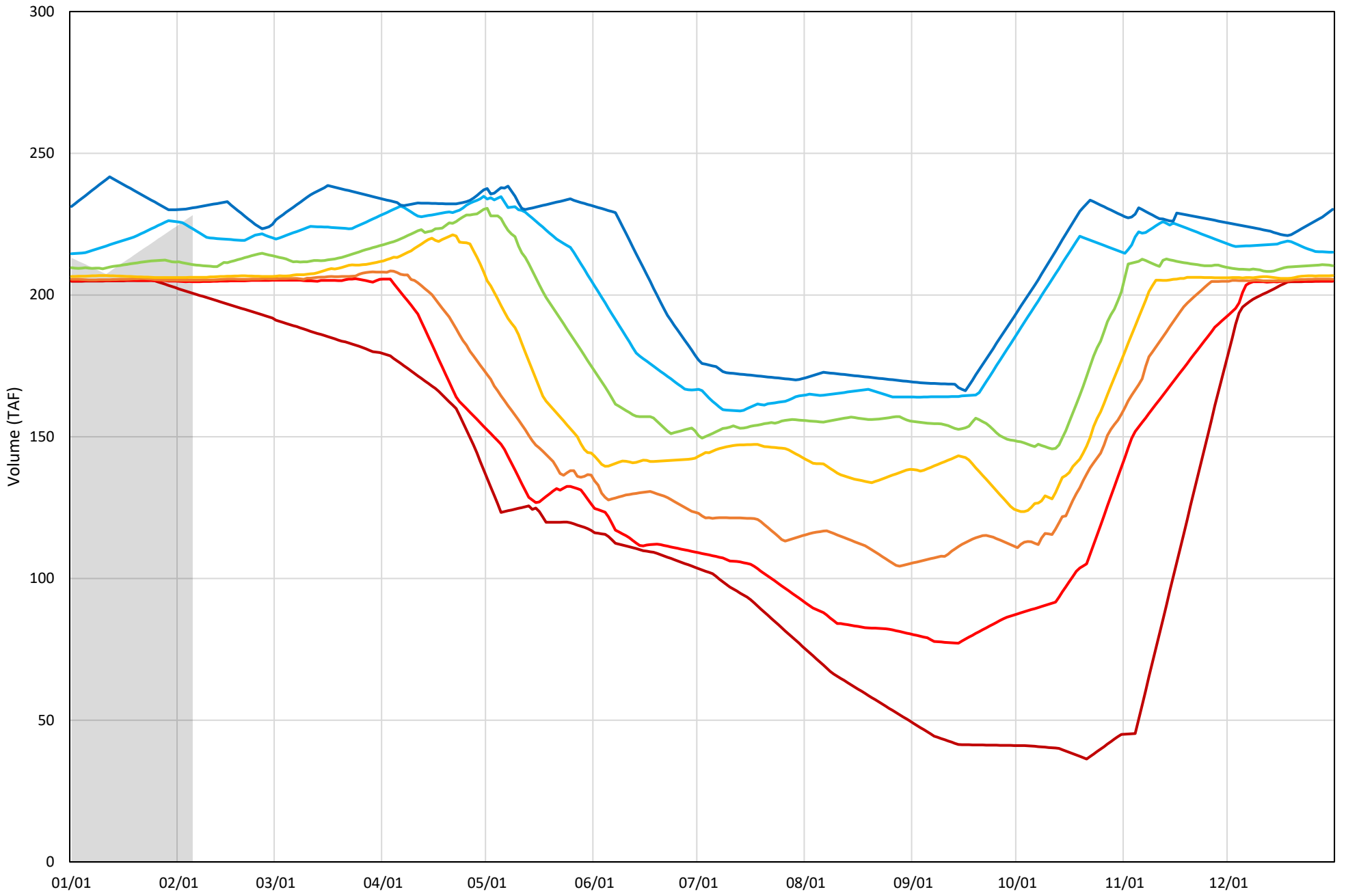
# Whiskeytown Lake Cold Water Pool Volume $\leq 56^{\circ}\text{F}$

Avg (2000-2023) 2014 2015 2016 2019 2022 2023 2024



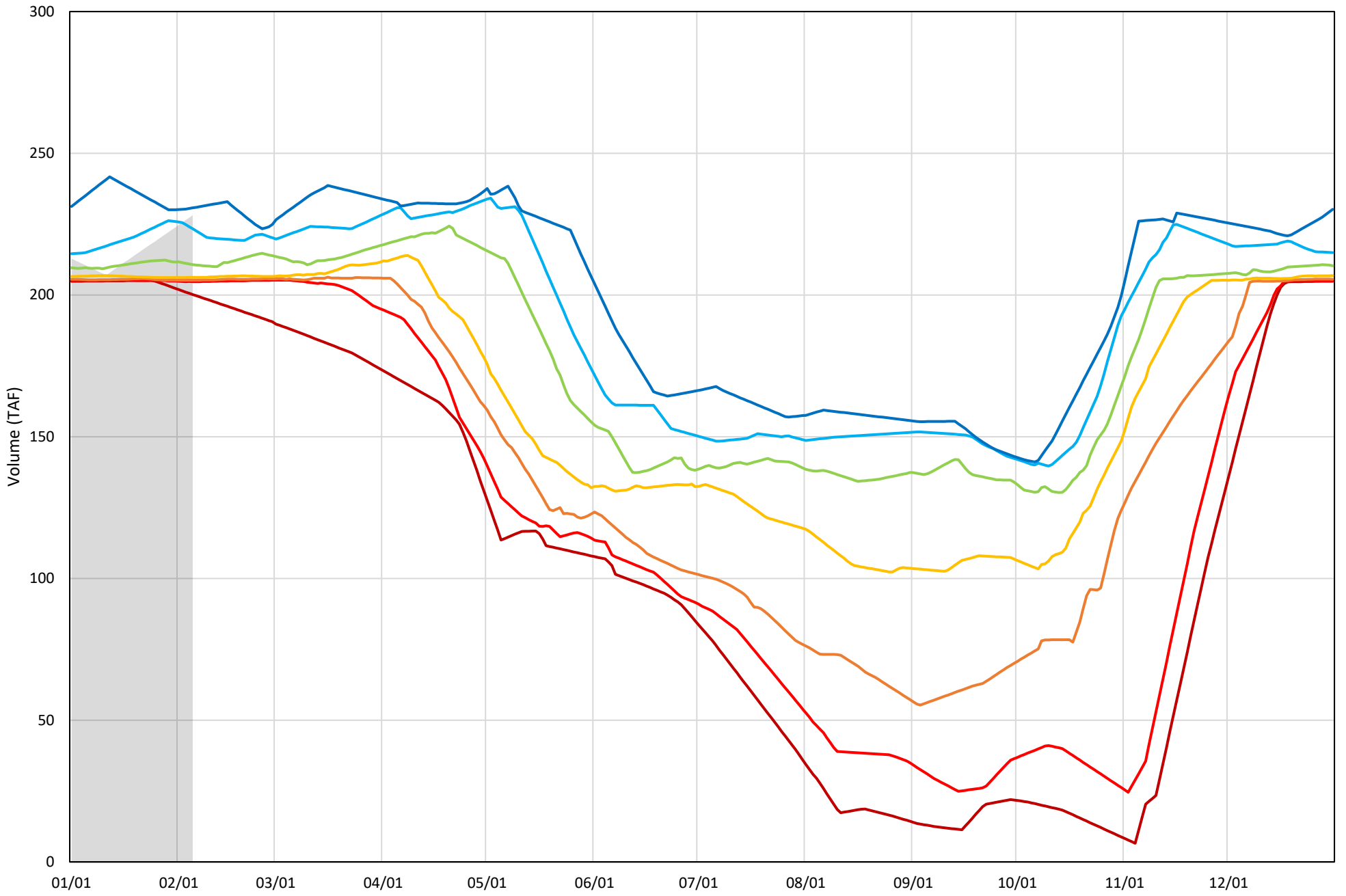
# Whiskeytown Lake Cold Water Pool Volume $\leq 60^{\circ}\text{F}$ - Percent Exceedances (2000-2023)

2024 95 90 75 50 25 10 5



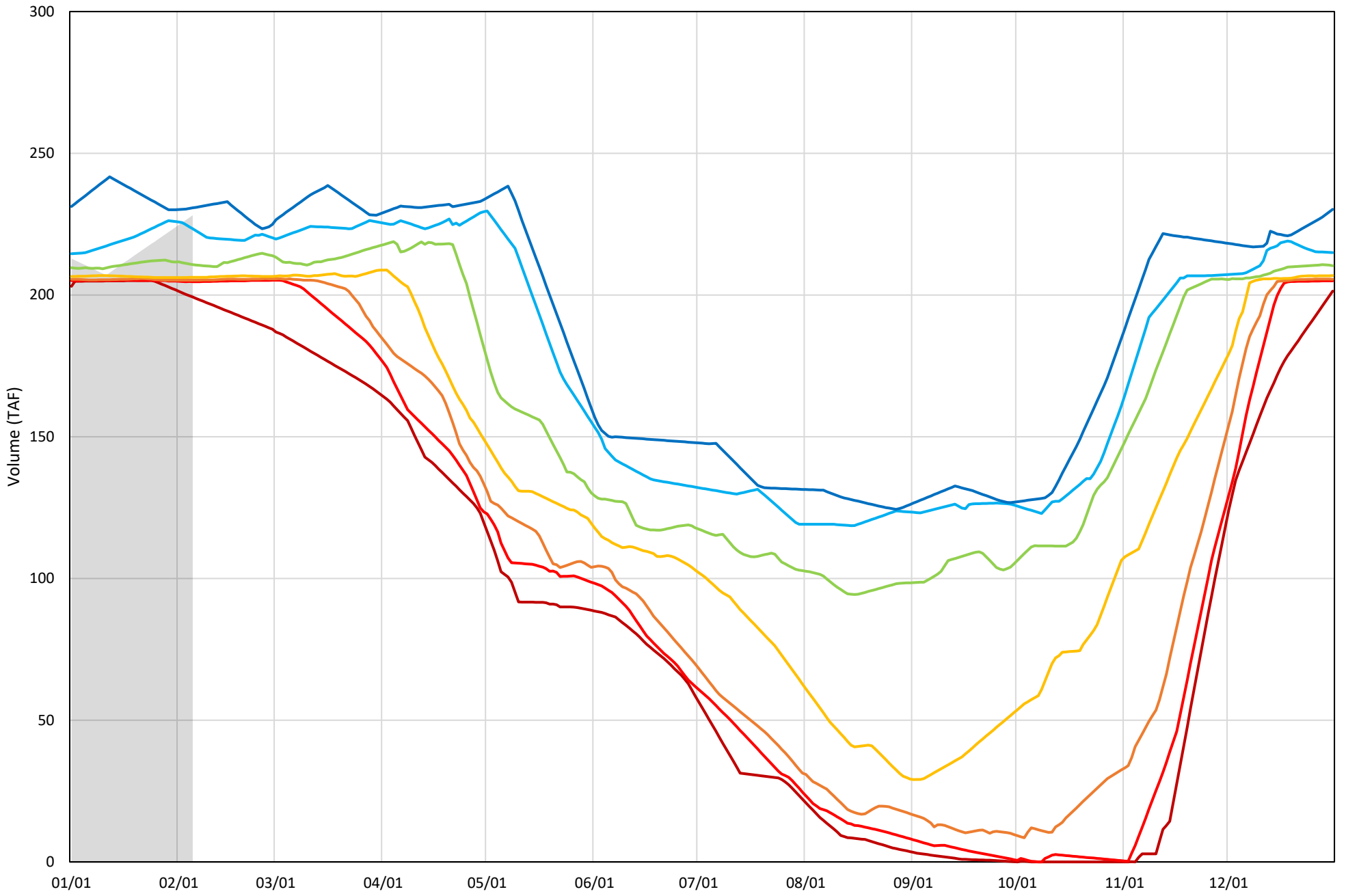
# Whiskeytown Lake Cold Water Pool Volume $\leq 58^{\circ}\text{F}$ - Percent Exceedances (2000-2023)

2024 95 90 75 50 25 10 5



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

2024 95 90 75 50 25 10 5



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

| Feb-06<br>2024 | $\Delta$ TAF    |                 |                 |           | % $\Delta$      |                 |                 |           |
|----------------|-----------------|-----------------|-----------------|-----------|-----------------|-----------------|-----------------|-----------|
|                | $\leq 60^\circ$ | $\leq 58^\circ$ | $\leq 56^\circ$ | Abs. Avg. | $\leq 60^\circ$ | $\leq 58^\circ$ | $\leq 56^\circ$ | Abs. Avg. |
| 2000           | -21.2           | -21.2           | -21.2           | 21.2      | -9.3            | -9.3            | -9.3            | 9.3       |
| 2001           | -11.1           | -11.1           | -11.1           | 11.1      | -4.9            | -4.9            | -4.9            | 4.9       |
| 2002           | -23.0           | -22.9           | -22.9           | 23.0      | -10.1           | -10.1           | -10.1           | 10.1      |
| 2003           | -22.3           | -22.3           | -22.3           | 22.3      | -9.8            | -9.8            | -9.8            | 9.8       |
| 2004           | -22.2           | -22.2           | -22.2           | 22.2      | -9.7            | -9.7            | -9.7            | 9.7       |
| 2005           | -16.9           | -16.9           | -16.9           | 16.9      | -7.4            | -7.4            | -7.4            | 7.4       |
| 2006           | -22.3           | -22.3           | -22.3           | 22.3      | -9.8            | -9.8            | -9.8            | 9.8       |
| 2007           | -23.2           | -23.2           | -23.2           | 23.2      | -10.2           | -10.2           | -10.2           | 10.2      |
| 2008           | -22.9           | -22.9           | -22.9           | 22.9      | -10.0           | -10.0           | -10.0           | 10.0      |
| 2009           | -19.2           | -19.2           | -19.2           | 19.2      | -8.4            | -8.4            | -8.4            | 8.4       |
| 2010           | -4.1            | -4.1            | -4.1            | 4.1       | -1.8            | -1.8            | -1.8            | 1.8       |
| 2011           | -22.9           | -22.9           | -22.9           | 22.9      | -10.0           | -10.0           | -10.0           | 10.0      |
| 2012           | -28.9           | -29.5           | -30.7           | 29.7      | -12.7           | -12.9           | -13.4           | 13.0      |
| 2013           | -23.3           | -23.3           | -23.3           | 23.3      | -10.2           | -10.2           | -10.2           | 10.2      |
| 2014           | -21.7           | -21.7           | -21.7           | 21.7      | -9.5            | -9.5            | -9.5            | 9.5       |
| 2015           | -23.6           | -23.6           | -23.6           | 23.6      | -10.3           | -10.3           | -10.3           | 10.3      |
| 2016           | -19.3           | -19.3           | -19.3           | 19.3      | -8.5            | -8.5            | -8.5            | 8.5       |
| 2017           | 4.8             | 4.8             | 4.8             | 4.8       | 2.1             | 2.1             | 2.1             | 2.1       |
| 2018           | -23.0           | -22.9           | -22.9           | 22.9      | -10.1           | -10.1           | -10.1           | 10.1      |
| 2019           | -15.1           | -15.1           | -15.1           | 15.1      | -6.6            | -6.6            | -6.6            | 6.6       |
| 2020           | -21.2           | -21.1           | -21.1           | 21.2      | -9.3            | -9.3            | -9.3            | 9.3       |
| 2021           | -21.5           | -21.5           | -21.5           | 21.5      | -9.4            | -9.4            | -9.4            | 9.4       |
| 2022           | -22.5           | -22.5           | -22.5           | 22.5      | -9.9            | -9.9            | -9.9            | 9.9       |
| 2023           | -5.6            | -5.6            | -5.6            | 5.6       | -2.4            | -2.4            | -2.4            | 2.4       |
| 2024           | 0.0             | 0.0             | 0.0             | 0.0       | 0.0             | 0.0             | 0.0             | 0.0       |

Historical - Current

(Historical - Current) / Current