

# Northern CVP Water Temperature Report

## March - 2025

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— BUREAU OF —  
RECLAMATION

All Data in this Report is Preliminary and Subject to Change

| D<br>A<br>T<br>E | 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  |
| Feb              | 48.7                               | 48.1   | 47.5             | 48.2   | 48.5   | 48.5             | 48.5   | 48.5   | 48.9   | 46.8   | 44.4   | 44.3   | 44.7   | 12426                    | 987               | 27209         | 50.7                             | 48.2 | 50.2 |
| 03/01            | 47.5                               | 46.8   | 47.6             | 47.5   | 48.0   | 48.4             | 49.7   | 50.6   | 51.5   | 47.5   | 44.6   | 45.3   | 45.9   | 5945                     | 472               | 6350          | 56.5                             | 55.1 | 57.6 |
| 03/02            | 47.4                               | 46.6   | #                | 47.6   | 48.0   | 48.2             | 50.2   | 50.6   | 51.3   | 47.5   | 44.7   | 45.6   | 46.3   | 6157                     | 11                | 6162          | 47.5                             | 49.2 | 49.7 |
| 03/03            | 47.5                               | 46.7   | #                | #      | 47.7   | 48.0             | 49.3   | 49.7   | 50.6   | 46.9   | 44.6   | 45.3   | 45.7   | 6385                     | 14                | 6050          | 48.5                             | 47.4 | 48.2 |
| 03/04            | 47.4                               | 46.7   | 47.4             | #      | 47.5   | 47.6             | 49.1   | 50.0   | 50.8   | 47.2   | 44.5   | 45.3   | 45.9   | 5572                     | 407               | 6037          | 52.5                             | 51.1 | 52.0 |
| 03/05            | 47.7                               | 46.8   | #                | 46.9   | 47.5   | 47.8             | 48.9   | 49.3   | 50.1   | 47.2   | 44.5   | 45.5   | 46.3   | 6388                     | 11                | 6074          | 52.5                             | 49.6 | 50.9 |
| 03/06            | 47.6                               | 46.8   | #                | 47.0   | 47.5   | 47.8             | 49.1   | 49.7   | 50.5   | 47.0   | 44.3   | 45.2   | 45.5   | 5969                     | 11                | 6136          | 52.0                             | 49.8 | 51.5 |
| 03/07            | 47.6                               | ? 46.9 | #                | 47.2   | 47.6   | 47.9             | ? 48.8 | 49.4   | 50.4   | 46.8   | 44.2   | 44.9   | 45.2   | 6359                     | 11                | 6195          | 52.5                             | 49.3 | 51.1 |
| 03/08            | 47.5                               | 46.9   | #                | 47.1   | 47.7   | 48.0             | 48.9   | 49.3   | 50.1   | 46.9   | 44.3   | 44.8   | 45.2   | 6696                     | 11                | 6072          | 50.0                             | 47.5 | 50.2 |
| 03/09            | 47.4                               | ? 46.9 | #                | ? 47.2 | ? 47.8 | ? 48.1           | ? 49.1 | ? 49.6 | ? 50.4 | ? 47.1 | ? 44.5 | ? 45.0 | ? 45.8 | 6628                     | 11                | 6049          | 51.5                             | 49.4 | 52.5 |
| 03/10            | 47.5                               | 46.8   | 48.1             | 47.3   | 47.8   | 48.0             | 49.3   | 50.0   | 50.8   | 47.3   | 44.7   | 45.3   | 46.0   | 5995                     | 400               | 5978          | 55.5                             | 51.4 | 54.4 |
| 03/11            | 47.5                               | 46.7   | #                | 47.2   | 47.8   | 48.1             | 49.3   | 49.9   | 50.8   | 47.7   | 44.7   | 45.4   | 46.0   | 6000                     | 14                | 6278          | 53.0                             | 51.7 | 54.8 |
| 03/12            | 46.9                               | 46.3   | #                | 47.3   | 47.7   | 47.8             | 49.2   | 50.1   | 50.7   | 47.4   | 44.7   | 45.5   | 46.1   | 5880                     | 13                | 6288          | 49.5                             | 52.0 | 51.8 |
| 03/13            | 47.0                               | 46.6   | 47.9             | 47.1   | 47.6   | 47.8             | 48.5   | 48.7   | 49.5   | 47.2   | 44.5   | 45.2   | 45.6   | 5557                     | 433               | 6251          | 48.5                             | 47.8 | 48.8 |
| 03/14            | 46.9                               | 46.4   | 48.4             | 46.7   | 47.0   | 46.6             | 47.4   | 47.8   | 48.5   | 46.0   | 43.9   | 44.6   | 44.0   | 5494                     | 467               | 6198          | ↓ 41.0                           | 41.8 | 43.8 |
| 03/15            | 47.1                               | 46.7   | 48.1             | 46.5   | 47.1   | 46.9             | 47.1   | 47.2   | 47.6   | 46.8   | 43.9   | 43.9   | 43.8   | 5631                     | 569               | 6211          | 43.5                             | 49.1 | 49.8 |
| 03/16            | 46.7                               | 46.6   | 48.6             | 46.7   | 47.2   | 47.1             | 48.0   | 48.2   | 48.6   | 47.4   | 43.6   | 44.4   | 44.9   | 4230                     | 1427              | 6172          | 53.0                             | 53.1 | 53.7 |
| 03/17            | 47.1                               | 46.9   | 48.7             | 47.1   | 47.7   | 47.7             | 49.1   | 48.9   | 49.3   | 48.1   | 43.6   | 44.3   | 44.9   | 4194                     | 1180              | 6040          | ? 47.5                           | 48.0 | 49.5 |
| 03/18            | 47.5                               | 47.2   | 49.0             | 47.2   | 47.8   | 47.9             | ? 49.0 | 48.8   | 49.4   | 47.5   | 43.8   | 44.3   | 44.9   | 4924                     | 1662              | 6007          | 46.5                             | 44.8 | 47.1 |
| 03/19            | 48.6                               | 48.1   | 49.1             | 47.6   | 47.7   | 47.6             | 48.3   | 48.6   | 49.2   | 47.1   | 44.1   | 44.4   | 44.7   | 13173                    | 1332              | 14526         | 47.0                             | 45.3 | 47.2 |
| 03/20            | 48.3                               | 47.9   | 49.0             | 47.9   | 48.1   | 48.2             | 48.7   | 48.8   | 49.1   | 47.5   | 44.6   | 44.6   | 45.4   | 9906                     | 1261              | 14887         | 49.0                             | 50.2 | 51.2 |
| 03/21            | 48.5                               | 47.9   | 48.3             | 48.1   | 48.3   | 48.4             | 49.1   | 49.3   | 49.8   | 48.3   | 44.8   | 45.2   | 46.0   | 11116                    | 196               | 15041         | 53.5                             | 51.5 | 53.2 |
| 03/22            | 48.5                               | 47.9   | 49.1             | 48.2   | 48.5   | 48.7             | 49.7   | 50.1   | 50.5   | 49.1   | 45.0   | 45.9   | 47.4   | 11314                    | 920               | 15032         | 58.0                             | 56.4 | 56.8 |
| 03/23            | 48.9                               | 48.3   | 49.1             | 48.4   | 48.8   | 49.1             | 50.3   | 50.8   | 51.4   | 49.8   | 45.3   | 46.5   | 48.3   | 9589                     | 947               | 13290         | 65.5                             | 60.4 | 63.2 |
| 03/24            | 49.4                               | ? 48.6 | 49.5             | 48.9   | 49.3   | 49.8             | 51.3   | 52.1   | 52.7   | 50.8   | 45.7   | 47.5   | 49.3   | 9498                     | 639               | 11177         | 68.0                             | 62.8 | 64.5 |
| 03/25            | 49.6                               | 48.8   | 46.4             | 49.2   | 49.6   | 50.2             | 52.0   | 53.2   | 54.1   | 50.9   | 46.1   | 48.2   | 49.8   | 10061                    | 35                | 10077         | 66.5                             | 63.9 | 66.4 |
| 03/26            | 49.6                               | 48.5   | 45.7             | 49.5   | 49.9   | 50.7             | 52.9   | 53.7   | 54.8   | 50.6   | 46.4   | 48.5   | 49.8   | 8765                     | 32                | 8609          | 63.5                             | 60.3 | 62.6 |
| 03/27            | 49.4                               | 48.5   | 45.7             | 49.3   | 49.8   | 50.5             | 52.4   | 53.9   | 54.9   | 50.1   | 46.8   | 48.7   | 49.4   | 7884                     | 59                | 8398          | 63.5                             | 60.3 | 62.4 |
| 03/28            | 48.6                               | ? 47.5 | 49.2             | 48.0   | 48.6   | 49.2             | 51.1   | 52.1   | 53.3   | 49.9   | 47.4   | 48.4   | 48.6   | 7639                     | 970               | 8357          | 54.0                             | 54.6 | 55.4 |
| 03/29            | 49.4                               | ? 48.3 | 50.2             | 48.2   | 48.6   | 48.8             | 50.0   | 50.9   | 51.7   | 48.8   | 47.4   | 48.0   | 47.9   | 7066                     | 1204              | 8426          | 50.0                             | 49.5 | 51.9 |
| 03/30            | 49.7                               | 48.5   | 49.6             | 48.6   | 48.9   | 48.9             | 49.7   | 50.5   | 51.2   | 48.5   | 47.2   | 47.9   | 47.7   | 7027                     | 1258              | 8279          | 52.5                             | 51.1 | 52.0 |
| 03/31            | 49.3                               | 48.3   | 49.8             | 48.8   | 49.3   | 49.4             | 50.2   | 50.3   | 50.8   | 48.9   | 46.3   | 47.4   | 47.1   | 7621                     | 1613              | 8314          | 51.0                             | 50.8 | 52.8 |
| Mar              | 48.0                               | 47.3   | 48.3             | 47.7   | 48.1   | 48.3             | 49.5   | 50.1   | 50.8   | 48.0   | 44.9   | 45.8   | 46.4   | 7235                     | 533               | 8222          | 53.1                             | 51.8 | 53.5 |

|           |        |       |        |
|-----------|--------|-------|--------|
| Total CFS | 224663 | 17590 | 254961 |
| Total AF  | 445610 | 34889 | 505705 |

#### Legend

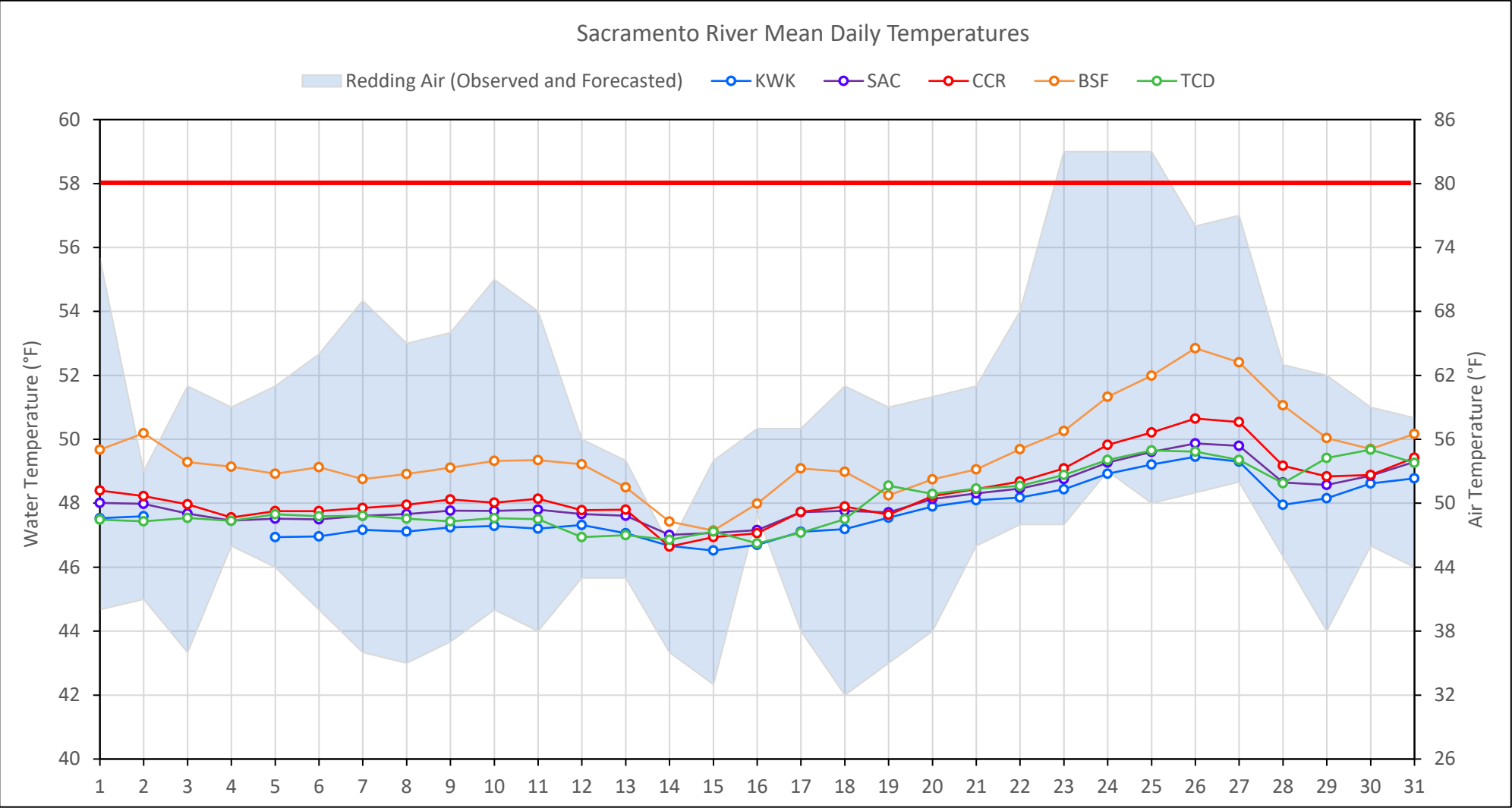
#### Notes

- ? = 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

<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)



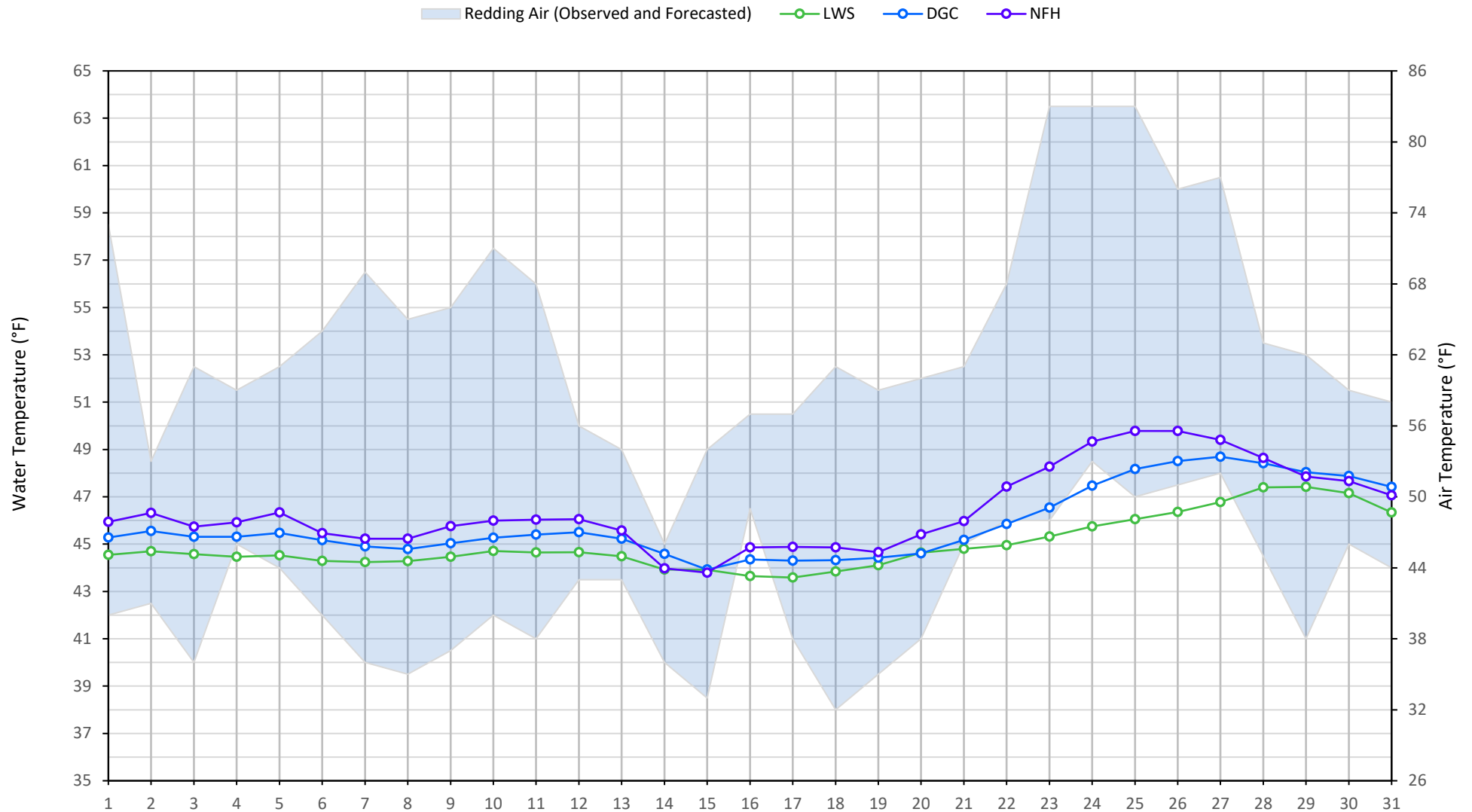
| Station Details |                  |                                            |                            |
|-----------------|------------------|--------------------------------------------|----------------------------|
| Code            | Body of Water    | Location <sup>1</sup>                      | 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   | 58.0       | 03/01/2025 | TBD      |
|                                        |       |            |            |          |
|                                        |       |            |            |          |
|                                        |       |            |            |          |
|                                        |       |            |            |          |
|                                        |       |            |            |          |

**Notes**

<sup>1</sup> Distances are approximate

## Trinity River Mean Daily Temperatures



### 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 |
|---------|-------|------------|------------|----------|
| Trinity | DGC   | 56         | Sep-15     | Oct-01   |
| Trinity | NFH   | 56         | Oct-01     | Dec-31   |

### Notes

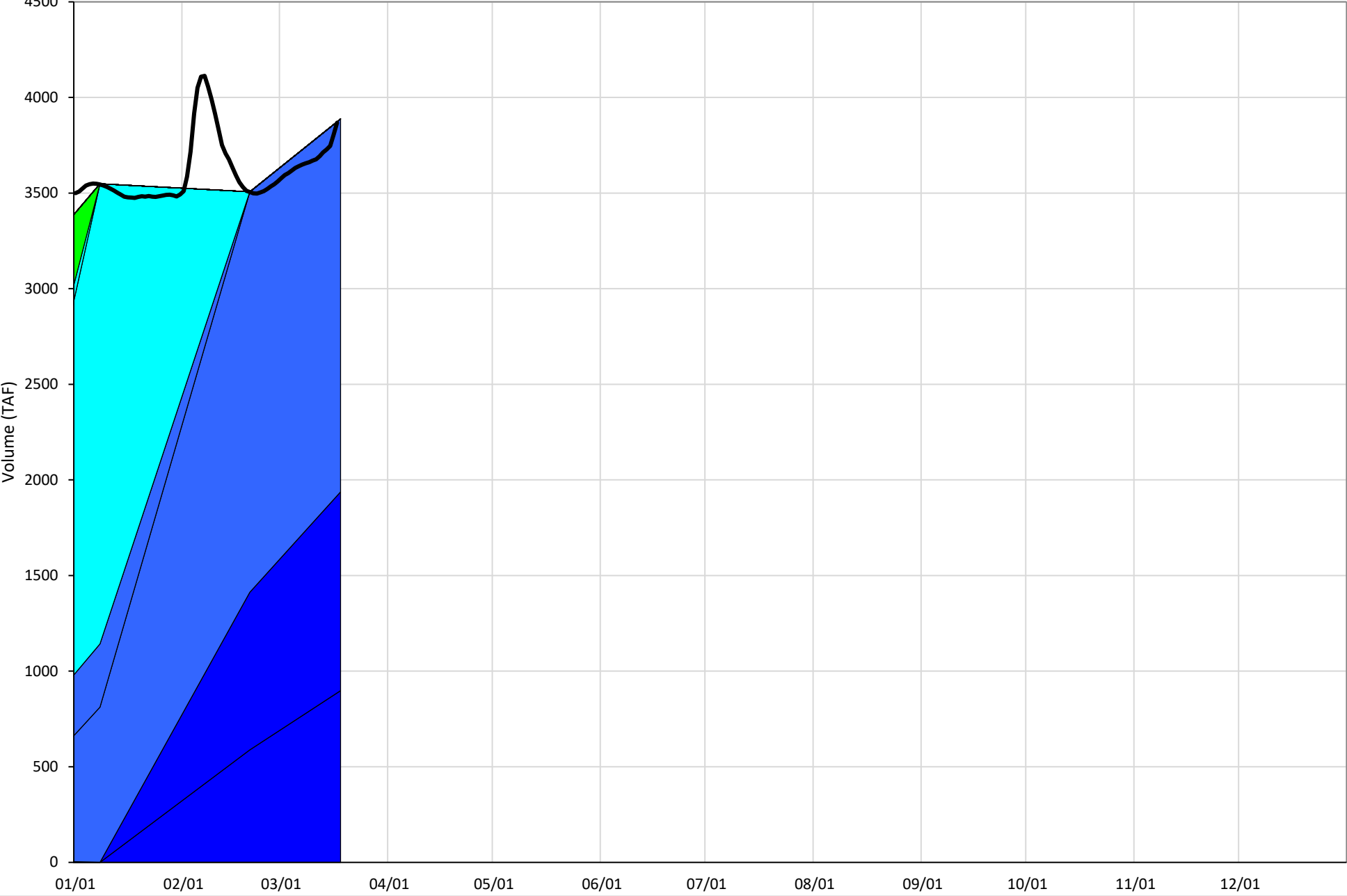
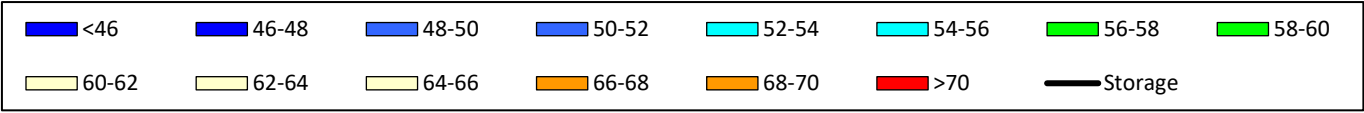
<sup>1</sup> Distances are approximate

# Shasta Lake Isothermobaths & Cold Water Pool Statistics

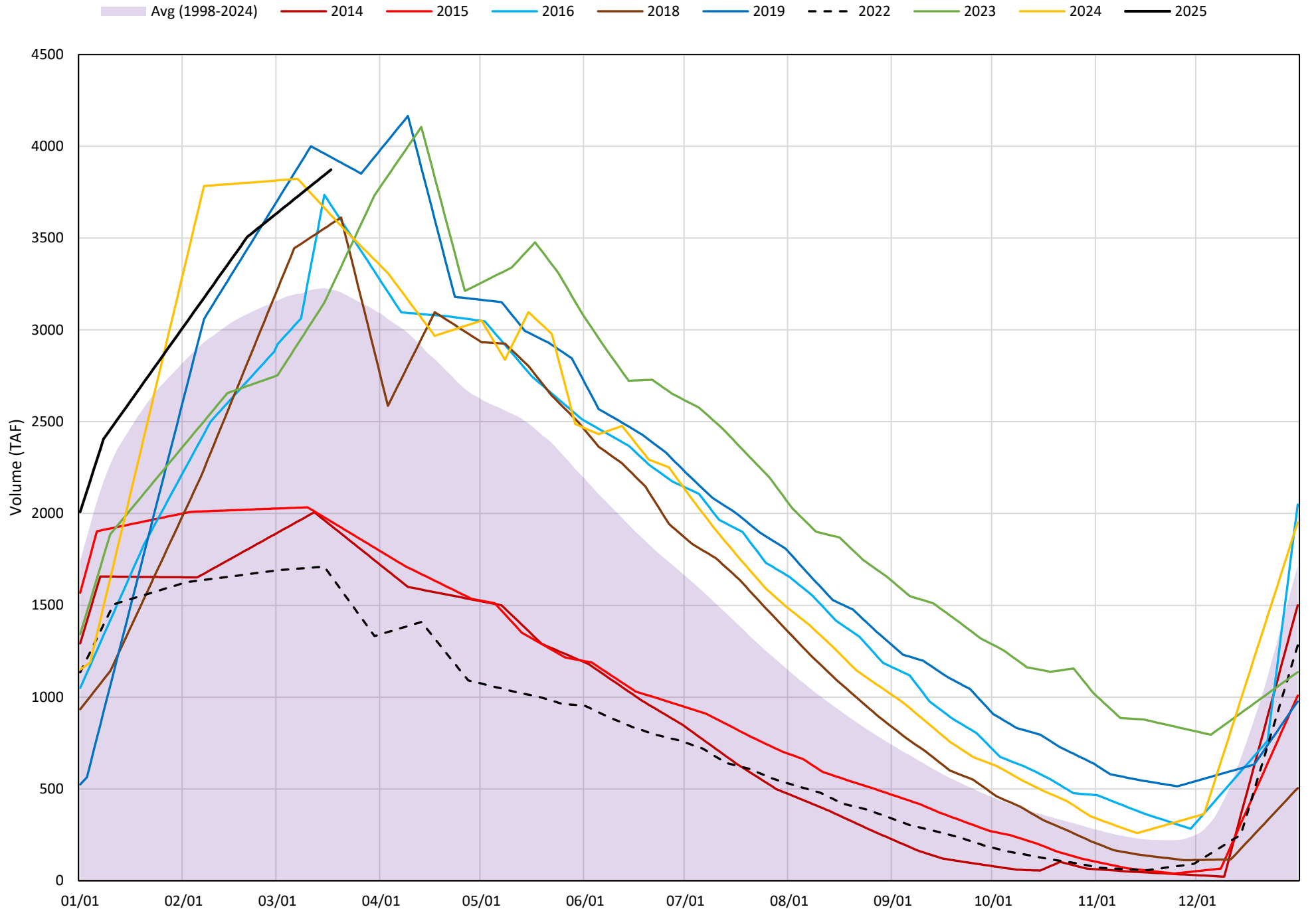
## 2025

| Page | Description                                                                          |
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| 13   | - Shasta Lake Cold Water Pool Comparison by Year                                     |

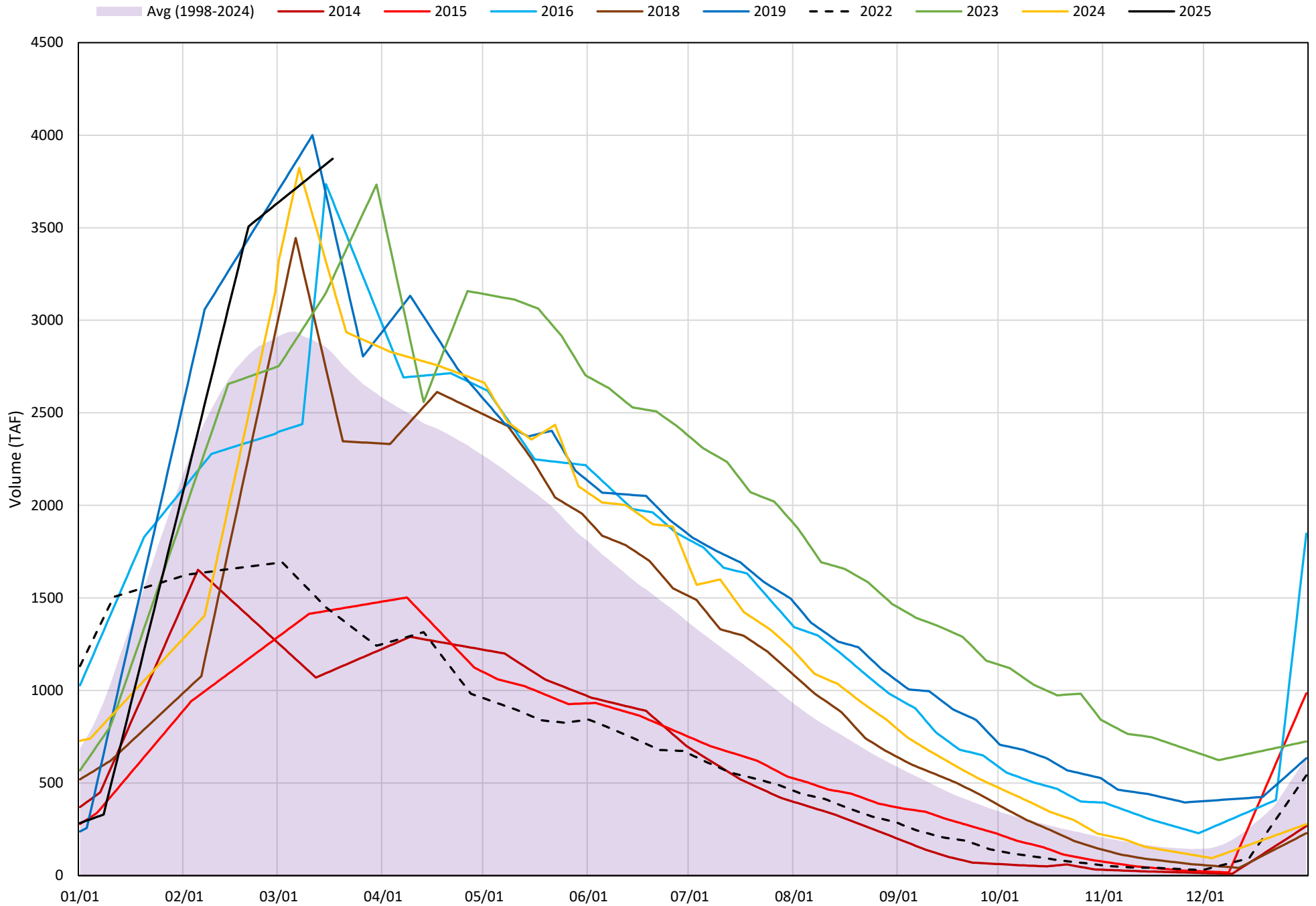
Shasta Lake Isothermobaths Plot - 2025



# Shasta Lake Cold Water Pool Volume ≤52°F

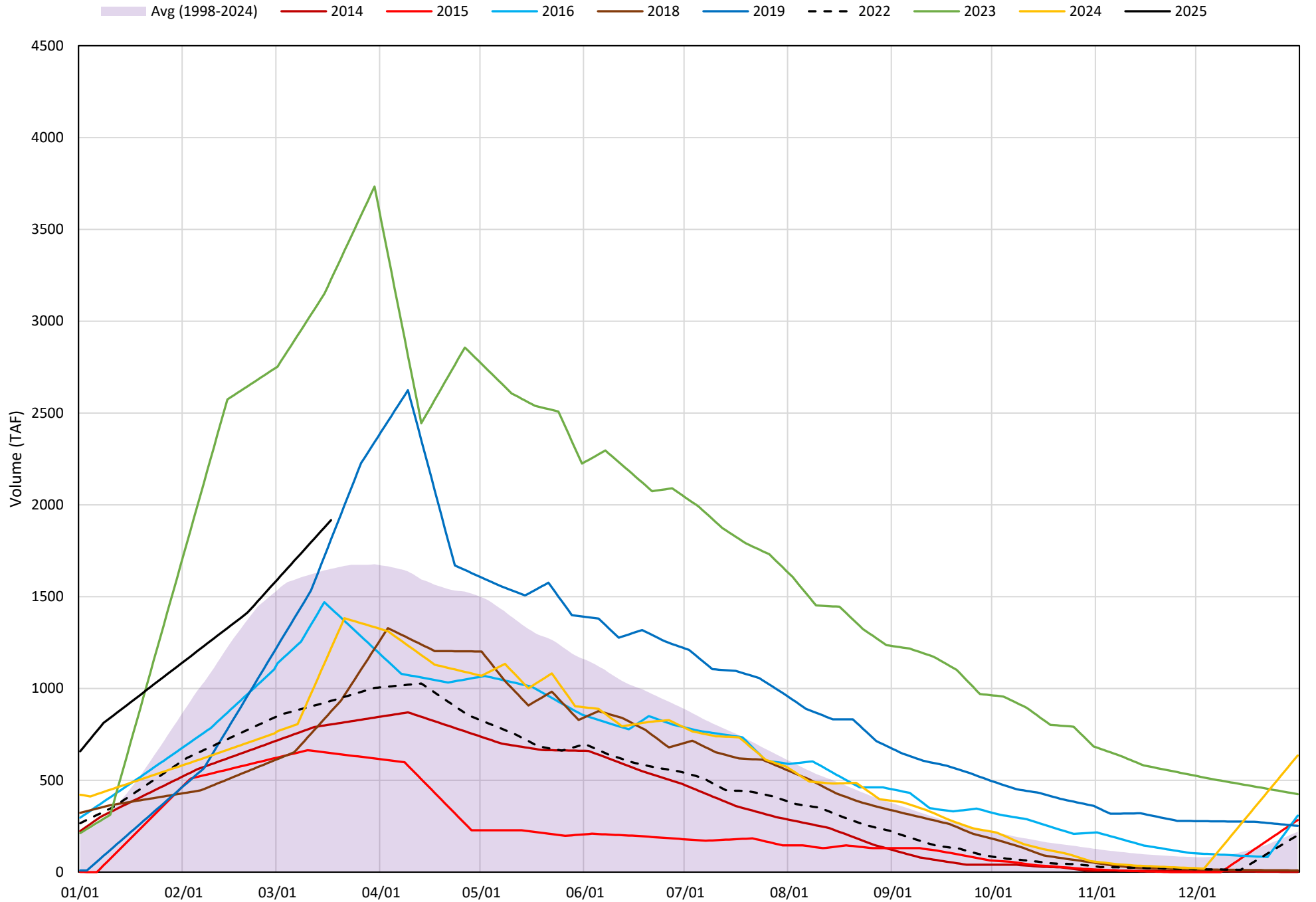


# Shasta Lake Cold Water Pool Volume ≤50°F

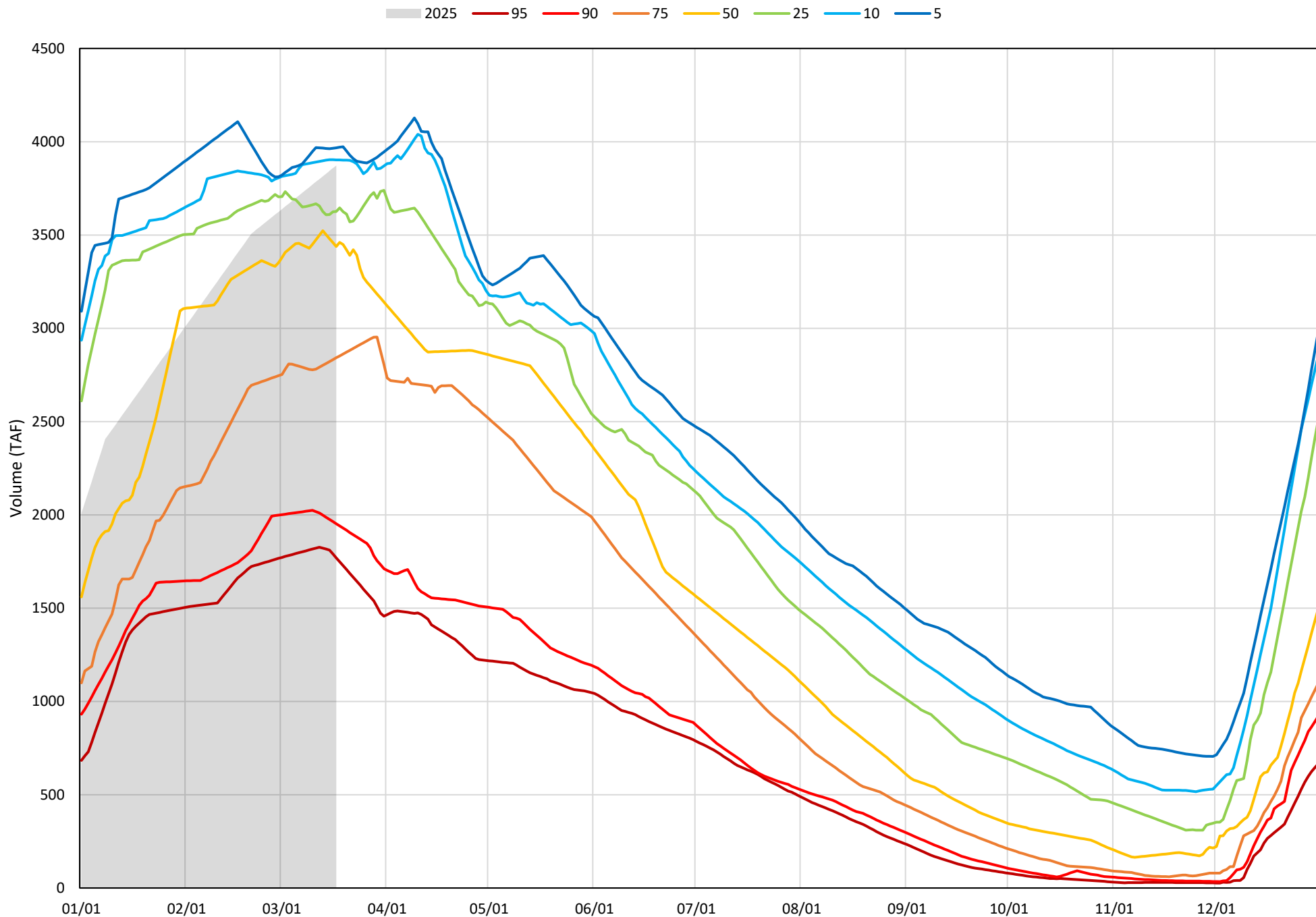




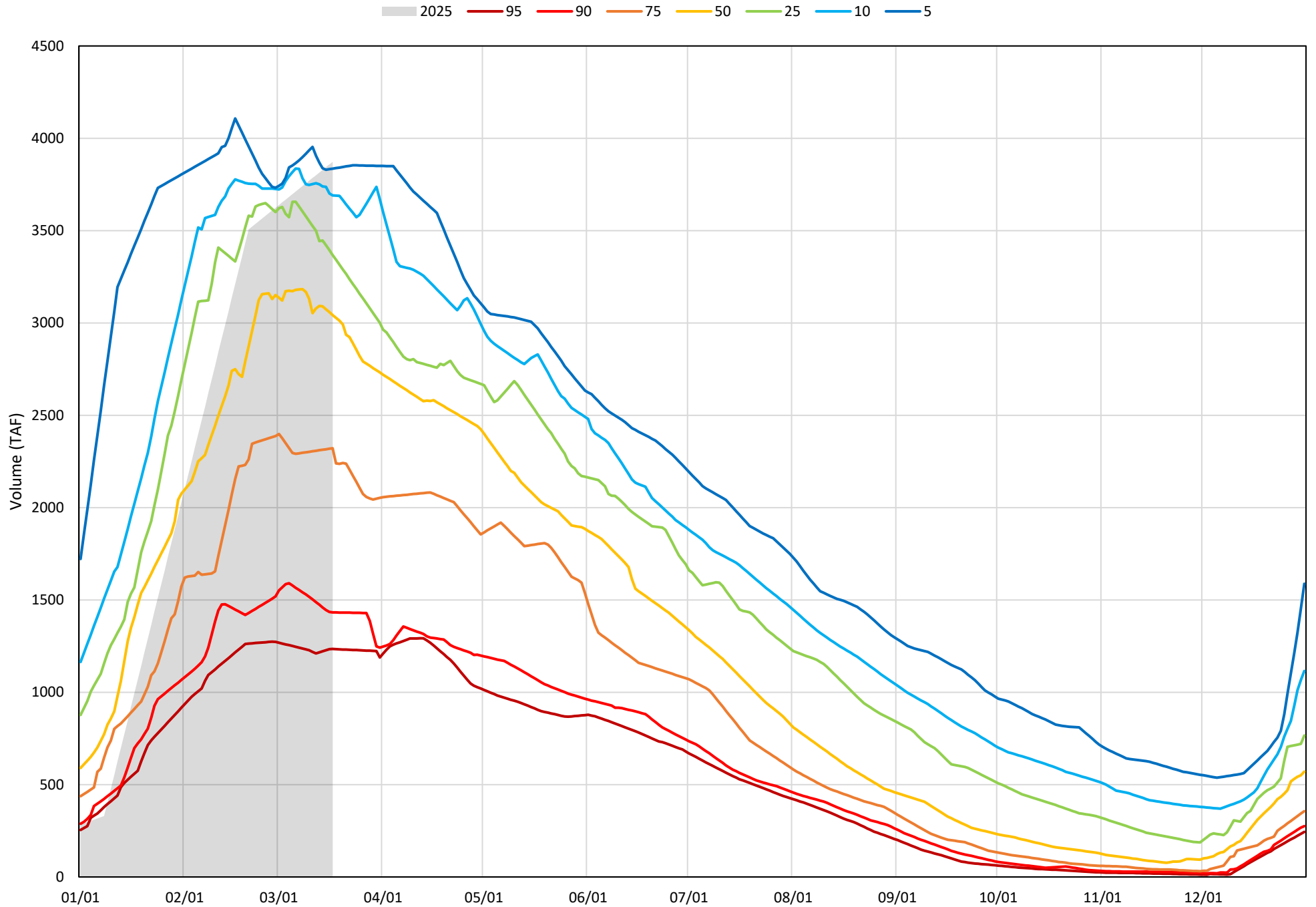
# Shasta Lake Cold Water Pool Volume ≤48°F



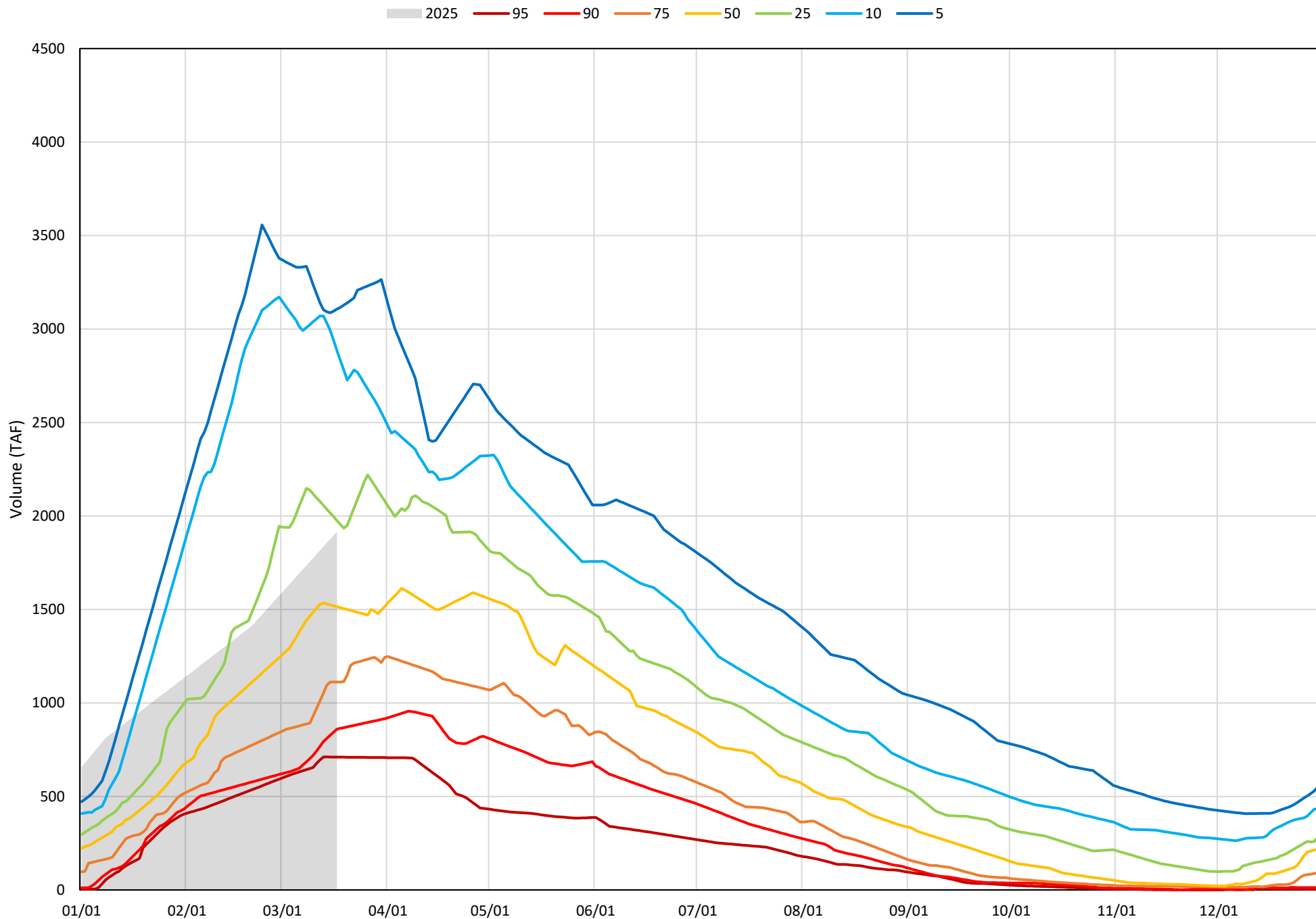
Shasta Lake Cold Water Pool Volume  $\leq 52^{\circ}\text{F}$  - Percent Exceedances (1998-2024)



Shasta Lake Cold Water Pool Volume  $\leq 50^{\circ}\text{F}$  - Percent Exceedances (1998-2024)



Shasta Lake Cold Water Pool Volume  $\leq 48^{\circ}\text{F}$  - Percent Exceedances (1998-2024)



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

| Mar-18<br>2025 | $\Delta$ TAF    |                 |                 |           | % $\Delta$      |                 |                 |           |
|----------------|-----------------|-----------------|-----------------|-----------|-----------------|-----------------|-----------------|-----------|
|                | $\leq 52^\circ$ | $\leq 50^\circ$ | $\leq 48^\circ$ | Abs. Avg. | $\leq 52^\circ$ | $\leq 50^\circ$ | $\leq 48^\circ$ | Abs. Avg. |
| 1998           | -466            | -655            | -917            | 679       | -12             | -17             | -48             | 26        |
| 1999           | -308            | -566            | 1008            | 627       | -8              | -15             | 53              | 25        |
| 2000           | -462            | -934            | -729            | 708       | -12             | -24             | -38             | 25        |
| 2001           | -683            | -936            | 596             | 739       | -18             | -24             | 31              | 24        |
| 2002           | 113             | -197            | -70             | 127       | 3               | -5              | -4              | 4         |
| 2003           | -581            | -1453           | -402            | 812       | -15             | -38             | -21             | 24        |
| 2004           | -435            | -505            | -690            | 543       | -11             | -13             | -36             | 20        |
| 2005           | -1113           | -1645           | -576            | 1111      | -29             | -42             | -30             | 34        |
| 2006           | -124            | -124            | 640             | 296       | -3              | -3              | 33              | 13        |
| 2007           | -364            | -456            | -282            | 367       | -9              | -12             | -15             | 12        |
| 2008           | -1031           | -1503           | -233            | 922       | -27             | -39             | -12             | 26        |
| 2009           | -1619           | -1736           | 59              | 1138      | -42             | -45             | 3               | 30        |
| 2010           | -232            | -799            | 3               | 345       | -6              | -21             | 0               | 9         |
| 2011           | 20              | 20              | 552             | 198       | 1               | 1               | 29              | 10        |
| 2012           | -440            | -830            | -672            | 647       | -11             | -21             | -35             | 23        |
| 2013           | -360            | -976            | -194            | 510       | -9              | -25             | -10             | 15        |
| 2014           | -1939           | -2764           | -1113           | 1938      | -50             | -71             | -58             | 60        |
| 2015           | -1916           | -2437           | -1269           | 1874      | -49             | -63             | -66             | 60        |
| 2016           | -193            | -228            | -481            | 300       | -5              | -6              | -25             | 12        |
| 2017           | -252            | -779            | 959             | 663       | -7              | -20             | 50              | 26        |
| 2018           | -296            | -1291           | -1042           | 877       | -8              | -33             | -54             | 32        |
| 2019           | 68              | -351            | -106            | 175       | 2               | -9              | -6              | 5         |
| 2020           | -333            | -1906           | -804            | 1014      | -9              | -49             | -42             | 33        |
| 2021           | -1551           | -1551           | -1043           | 1382      | -40             | -40             | -54             | 45        |
| 2022           | -2213           | -2451           | -984            | 1883      | -57             | -63             | -51             | 57        |
| 2023           | -646            | -646            | 1310            | 867       | -17             | -17             | 68              | 34        |
| 2024           | -247            | -684            | -699            | 543       | -6              | -18             | -36             | 20        |
| 2025           | 0               | 0               | 0               | 0         | 0               | 0               | 0               | 0         |

Historical - Current

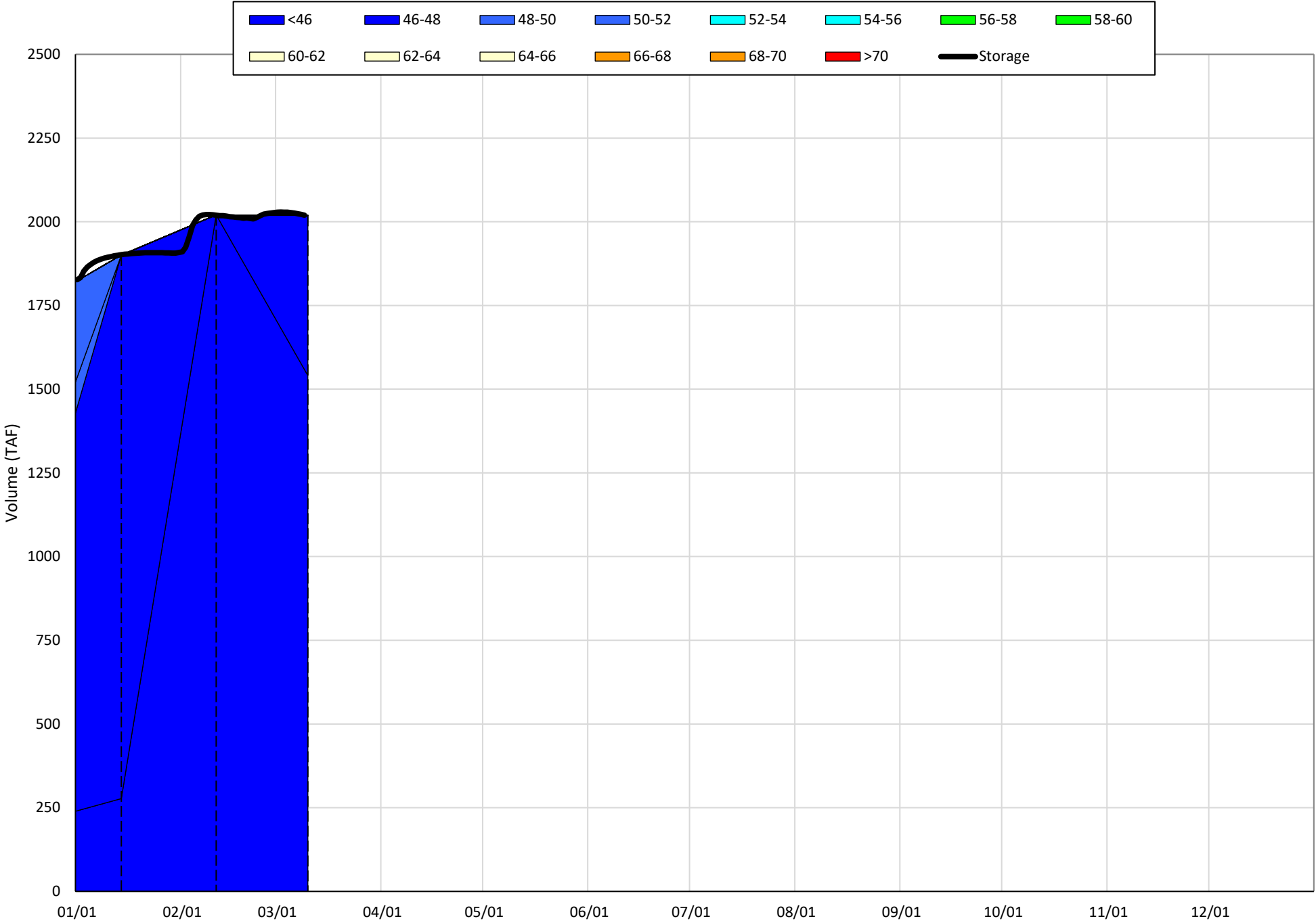
(Historical - Current) / Current

# Trinity Lake Isothermobaths & Cold Water Pool Statistics

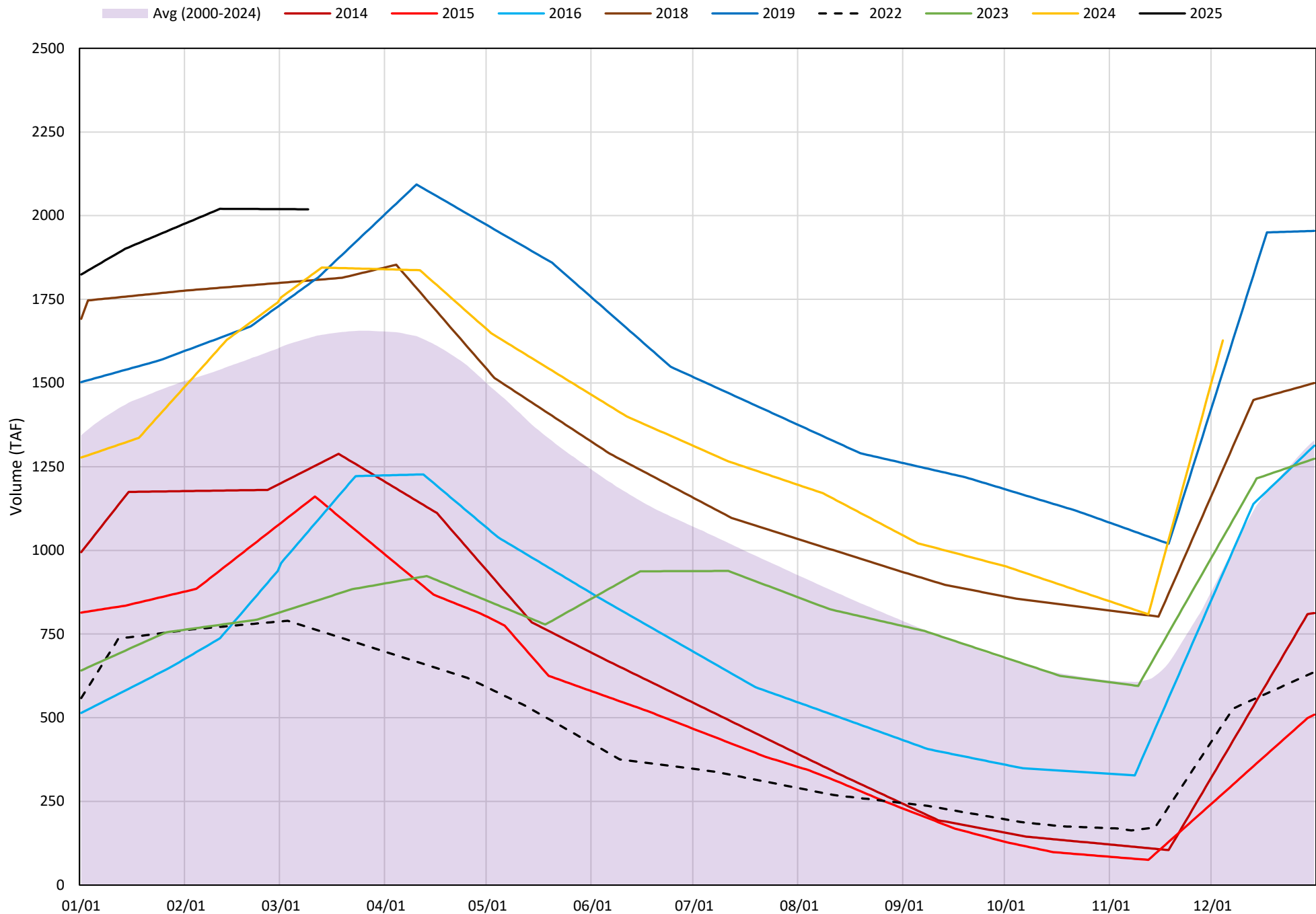
## 2025

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| 22   | - Trinity Lake Cold Water Pool Comparison by Year                                     |

Trinity Lake Isothermobaths Plot - 2025

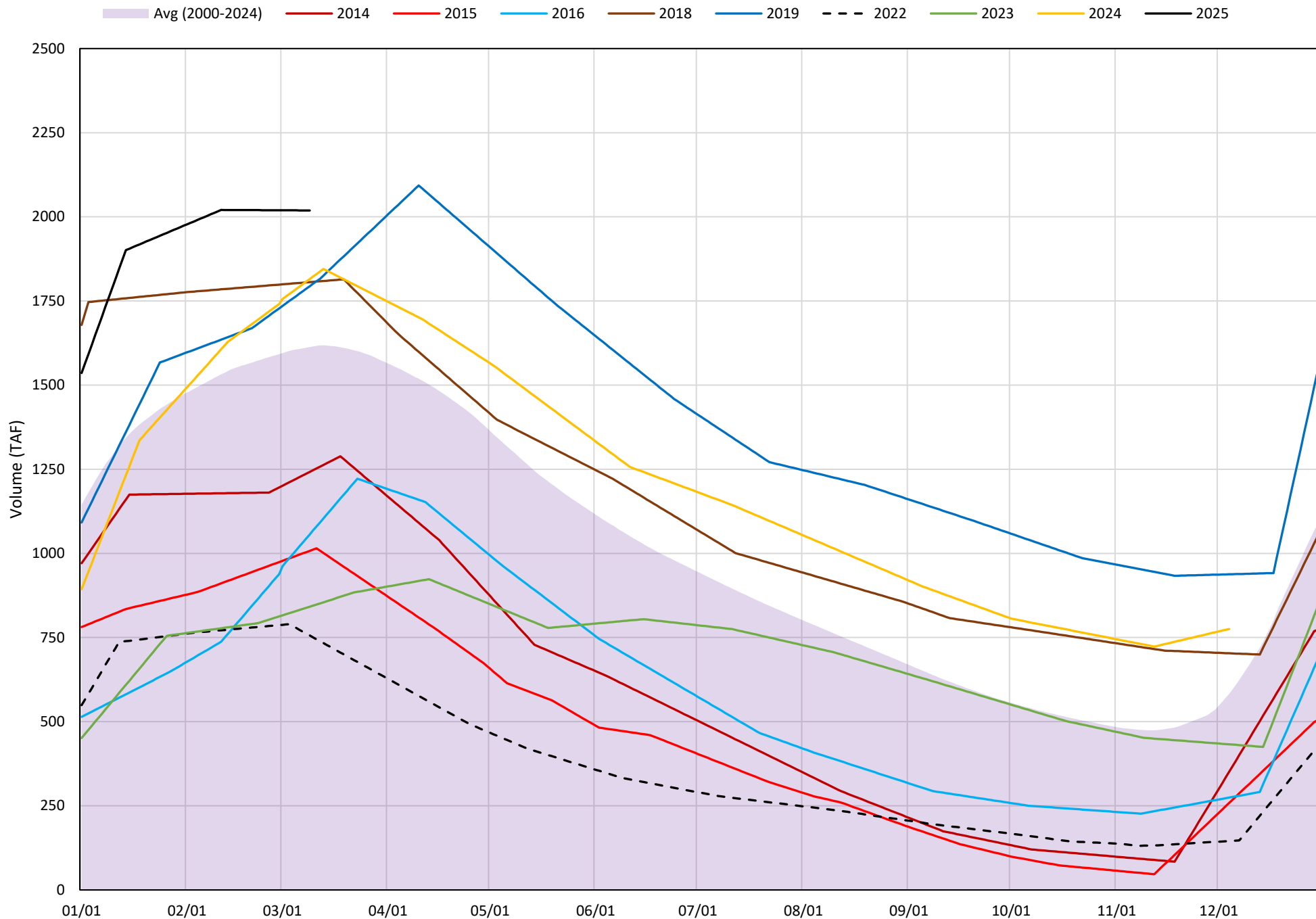


# Trinity Lake Cold Water Pool Volume ≤52°F

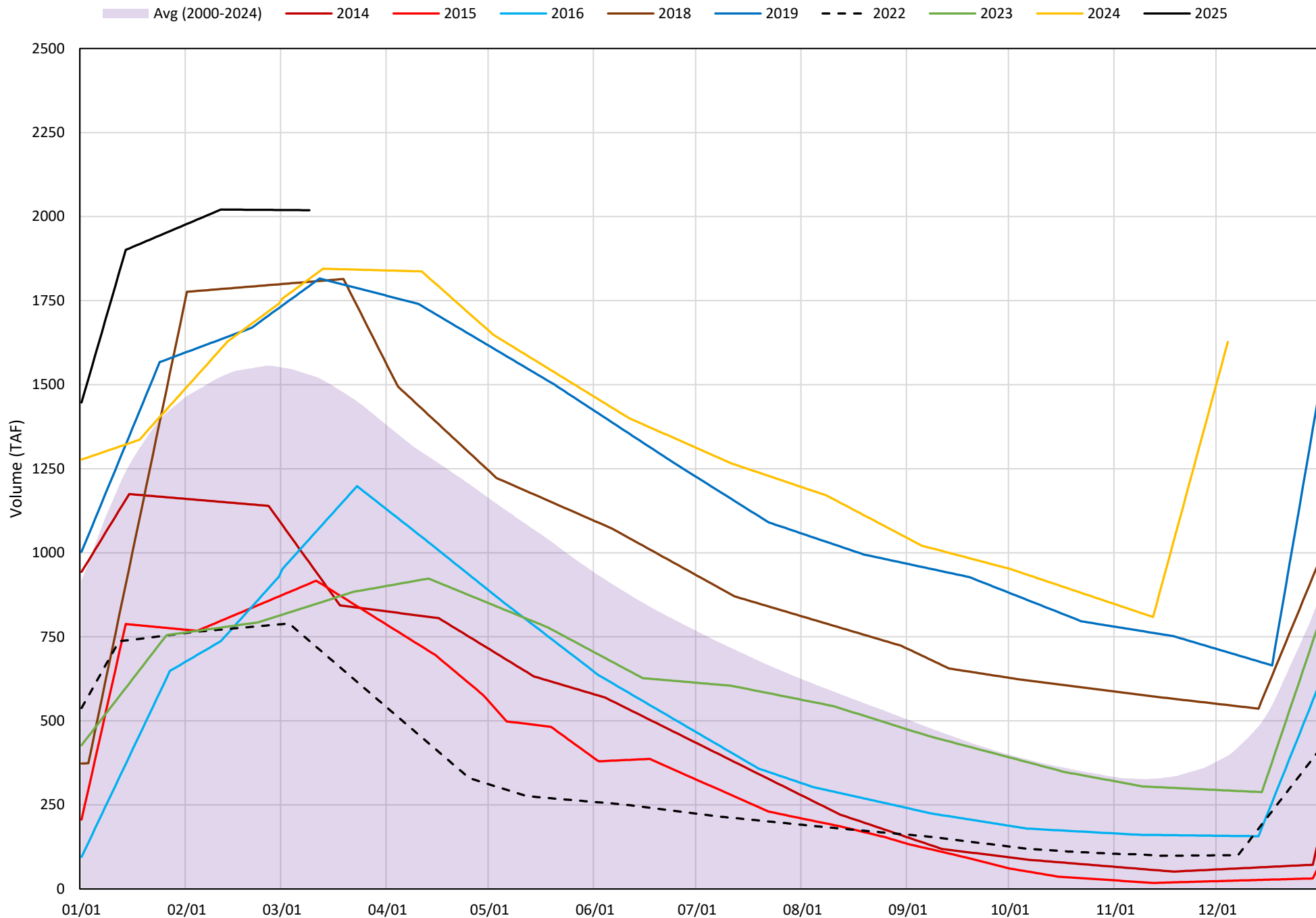




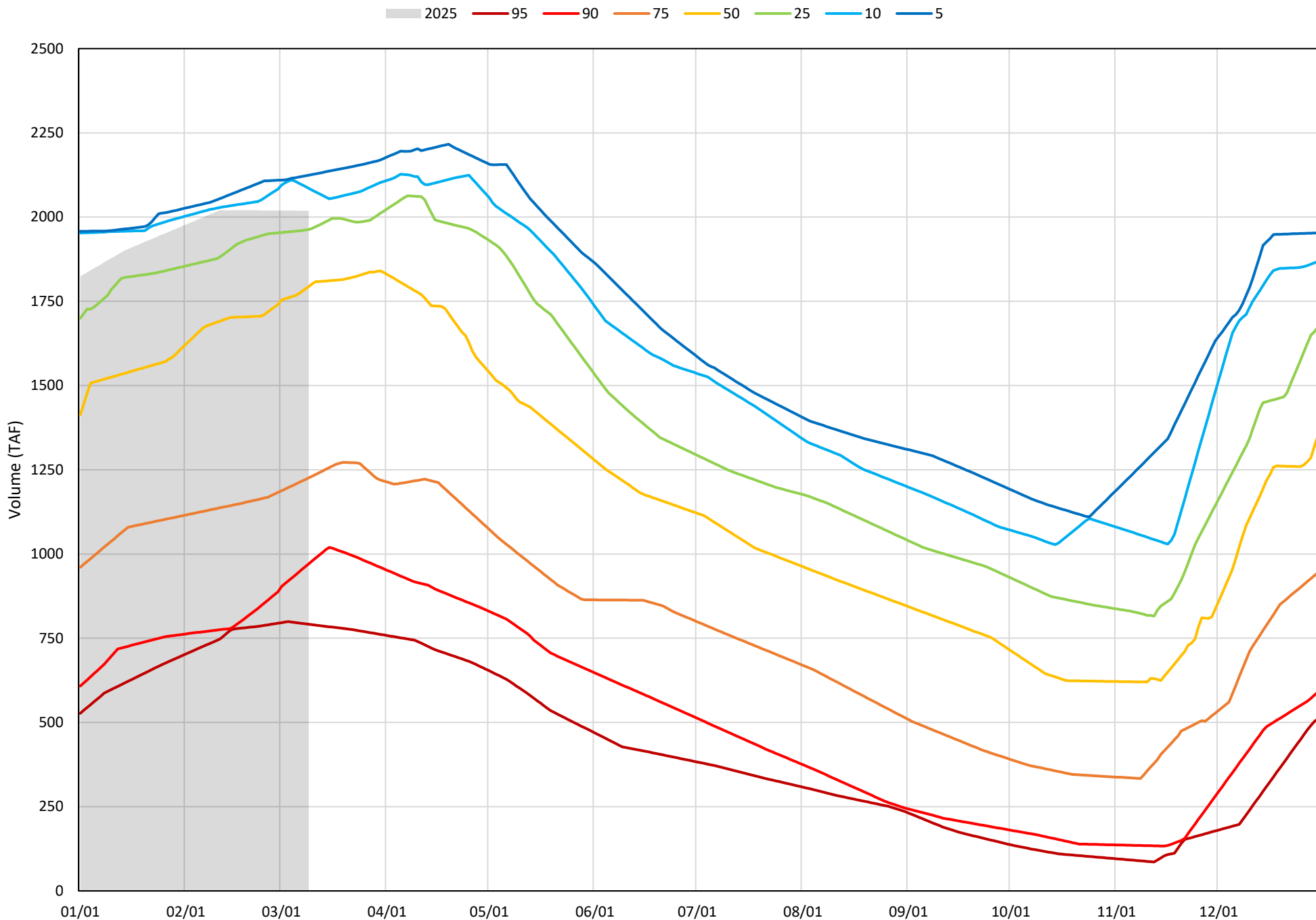
Trinity Lake Cold Water Pool Volume  $\leq 50^{\circ}\text{F}$



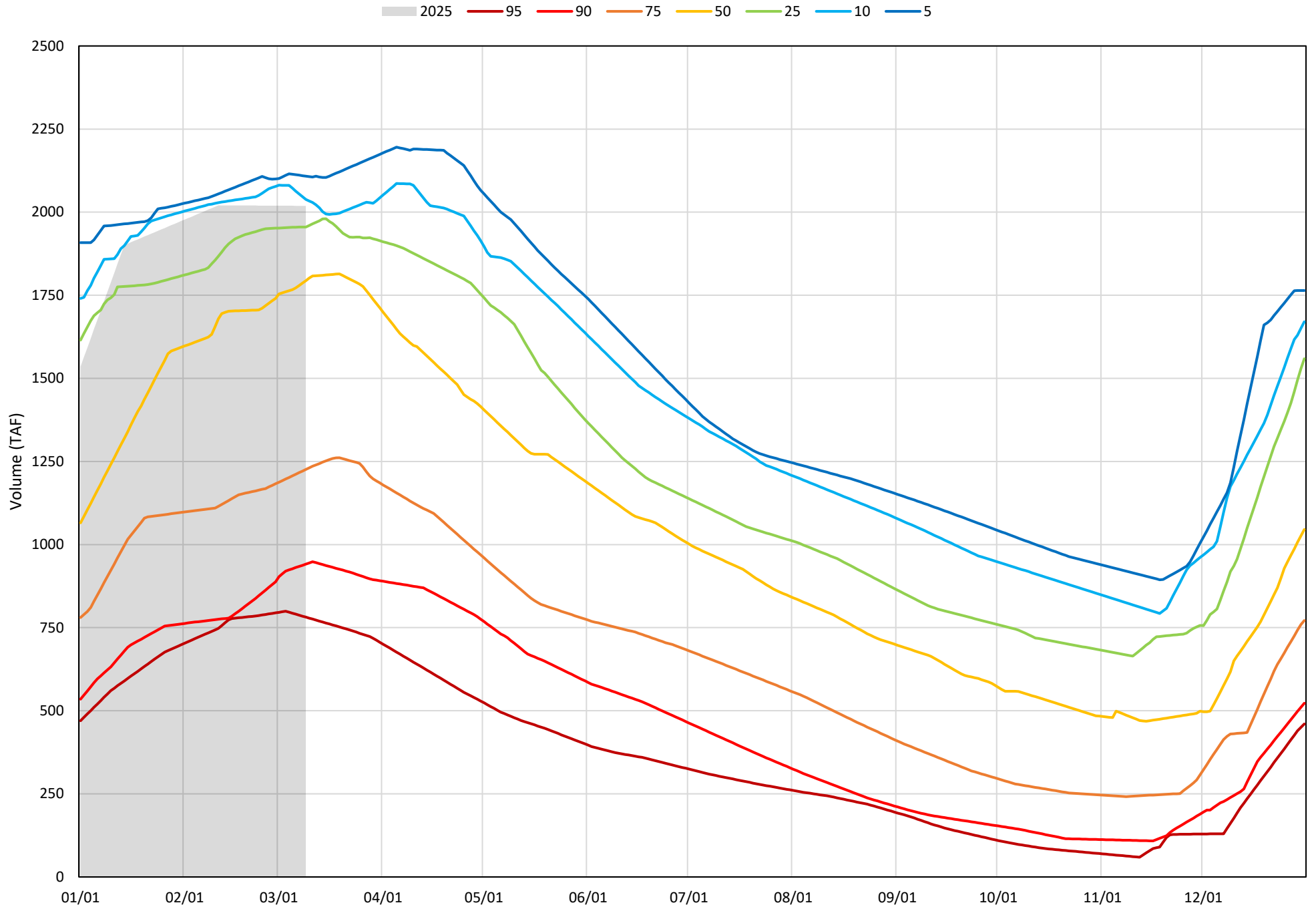
# Trinity Lake Cold Water Pool Volume ≤48°F



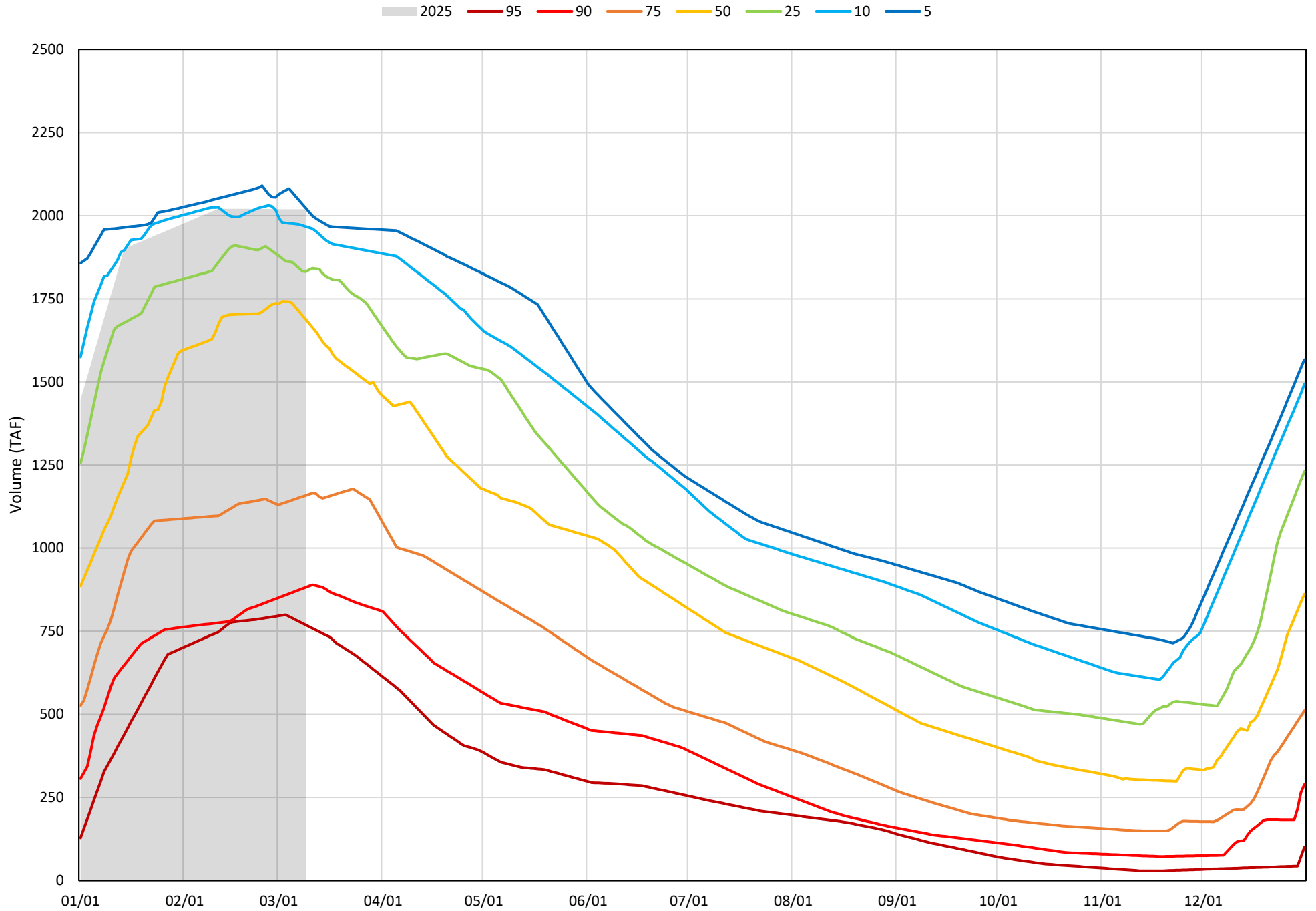
Trinity Lake Cold Water Pool Volume  $\leq 52^{\circ}\text{F}$  - Percent Exceedances (2000-2024)



Trinity Lake Cold Water Pool Volume  $\leq 50^{\circ}\text{F}$  - Percent Exceedances (2000-2024)



Trinity Lake Cold Water Pool Volume  $\leq 48^{\circ}\text{F}$  - Percent Exceedances (2000-2024)



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

| Mar-10<br>2025 | $\Delta$ TAF    |                 |                 |           | % $\Delta$      |                 |                 |           |
|----------------|-----------------|-----------------|-----------------|-----------|-----------------|-----------------|-----------------|-----------|
|                | $\leq 52^\circ$ | $\leq 50^\circ$ | $\leq 48^\circ$ | Abs. Avg. | $\leq 52^\circ$ | $\leq 50^\circ$ | $\leq 48^\circ$ | Abs. Avg. |
| 2000           | 87              | 9               | -220            | 105       | 4               | 0               | -11             | 5         |
| 2001           | -332            | -351            | -380            | 354       | -16             | -17             | -19             | 18        |
| 2002           | -239            | -239            | -280            | 253       | -12             | -12             | -14             | 13        |
| 2003           | -48             | -59             | -294            | 134       | -2              | -3              | -15             | 7         |
| 2004           | 53              | 34              | 14              | 33        | 3               | 2               | 1               | 2         |
| 2005           | -299            | -535            | -659            | 498       | -15             | -27             | -33             | 25        |
| 2006           | 113             | 113             | -20             | 82        | 6               | 6               | -1              | 4         |
| 2007           | -90             | -90             | -363            | 181       | -4              | -4              | -18             | 9         |
| 2008           | -504            | -504            | -504            | 504       | -25             | -25             | -25             | 25        |
| 2009           | -911            | -911            | -911            | 911       | -45             | -45             | -45             | 45        |
| 2010           | -809            | -809            | -809            | 809       | -40             | -40             | -40             | 40        |
| 2011           | -68             | -68             | -112            | 83        | -3              | -3              | -6              | 4         |
| 2012           | -64             | -70             | -73             | 69        | -3              | -3              | -4              | 3         |
| 2013           | -15             | -15             | -146            | 58        | -1              | -1              | -7              | 3         |
| 2014           | -777            | -777            | -1048           | 867       | -38             | -38             | -52             | 43        |
| 2015           | -874            | -1011           | -1111           | 999       | -43             | -50             | -55             | 49        |
| 2016           | -962            | -962            | -978            | 968       | -48             | -48             | -48             | 48        |
| 2017           | -87             | -87             | -171            | 115       | -4              | -4              | -8              | 6         |
| 2018           | -213            | -213            | -213            | 213       | -11             | -11             | -11             | 11        |
| 2019           | -225            | -225            | -225            | 225       | -11             | -11             | -11             | 11        |
| 2020           | 9               | 9               | -331            | 116       | 0               | 0               | -16             | 6         |
| 2021           | -742            | -742            | -742            | 742       | -37             | -37             | -37             | 37        |
| 2022           | -1249           | -1263           | -1281           | 1264      | -62             | -63             | -63             | 63        |
| 2023           | -1177           | -1177           | -1177           | 1177      | -58             | -58             | -58             | 58        |
| 2024           | -204            | -204            | -204            | 204       | -10             | -10             | -10             | 10        |
| 2025           | 0               | 0               | 0               | 0         | 0               | 0               | 0               | 0         |

Historical - Current

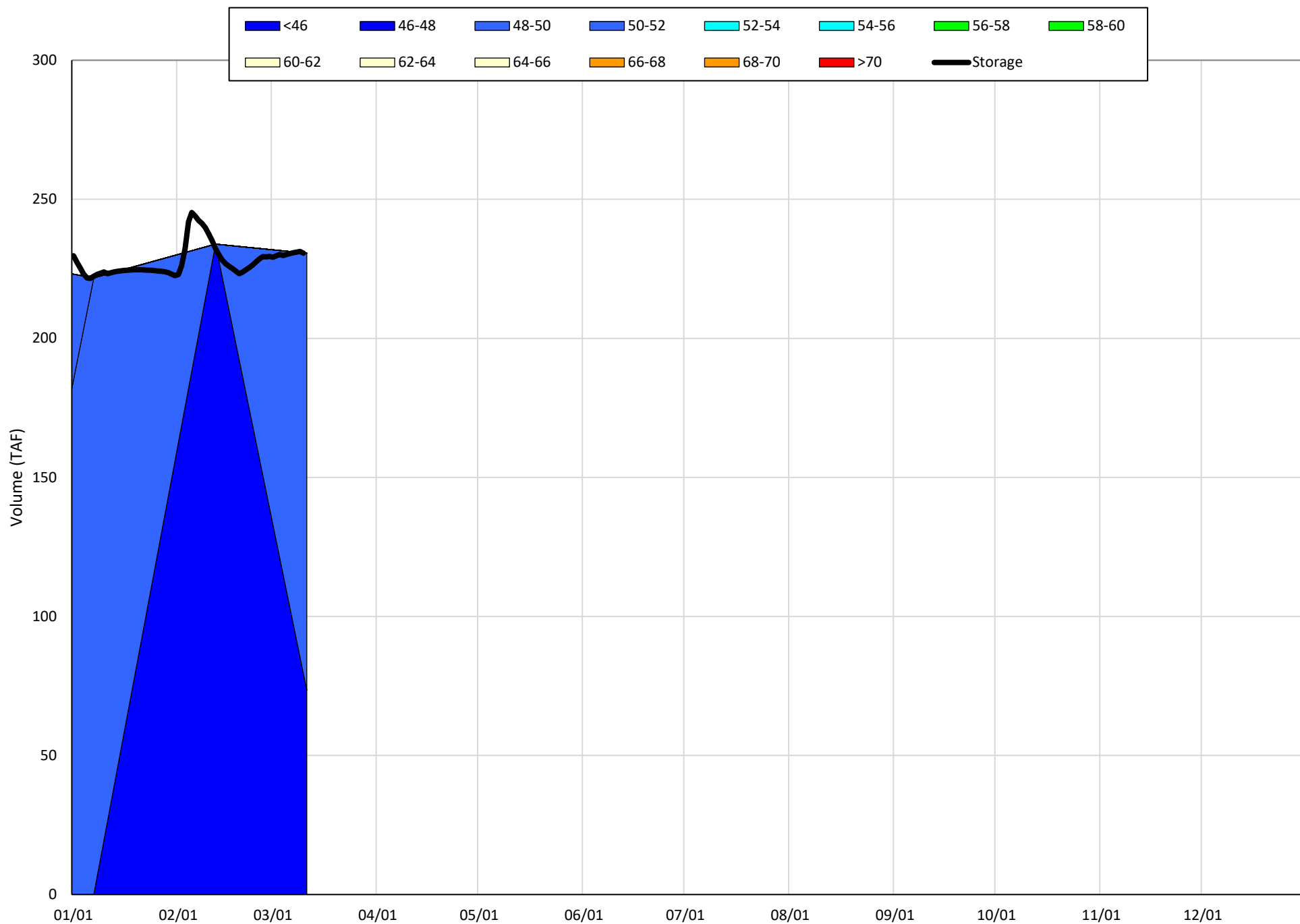
(Historical - Current) / Current

# Whiskeytown Lake Isothermobaths & Cold Water Pool Statistics

## 2025

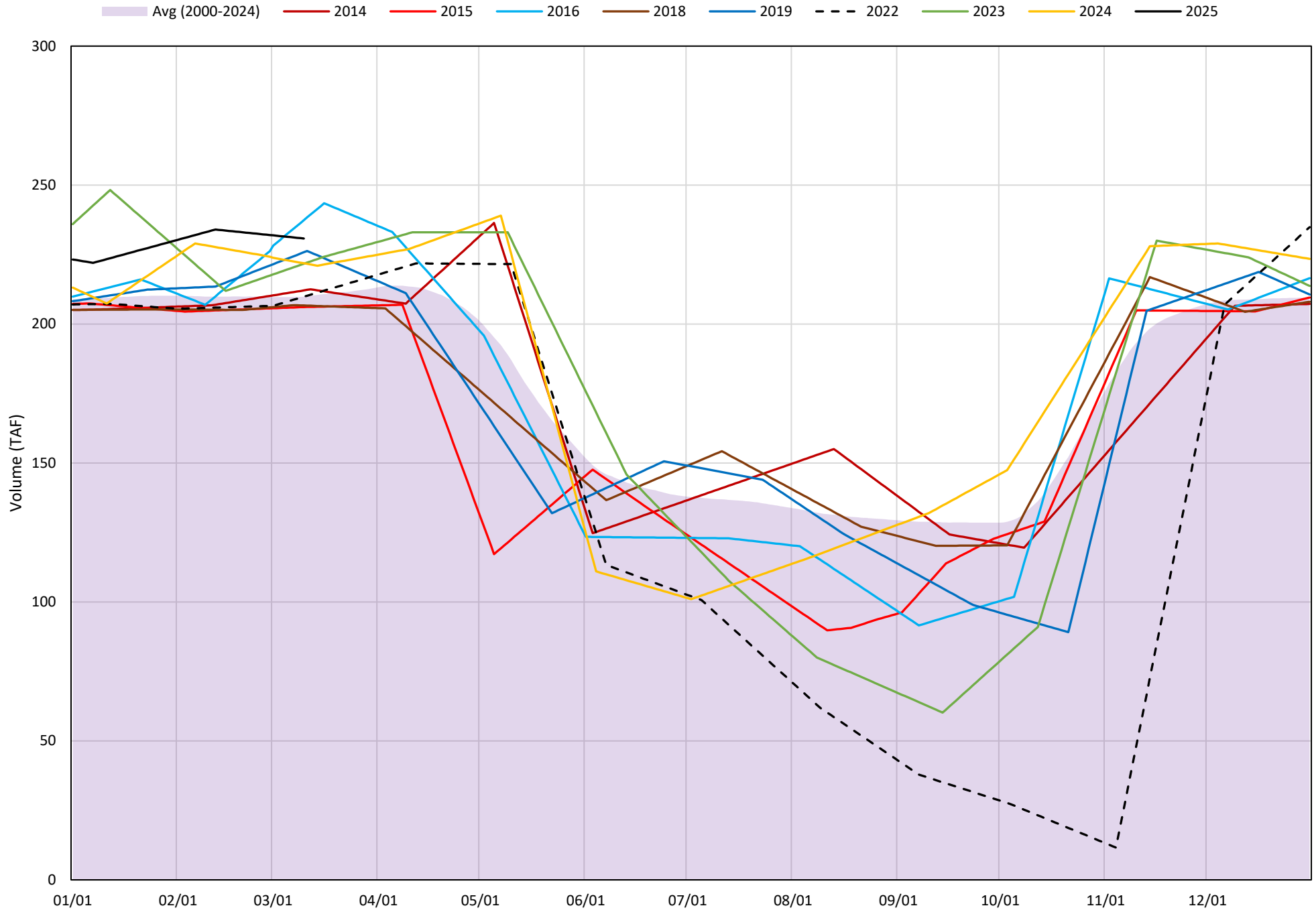
| Page | Description                                                           |
|------|-----------------------------------------------------------------------|
| 24   | - Whiskeytown Lake Isothermobaths Plot                                |
| 25   | - Whiskeytown Lake Cold Water Pool Volume ≤60°F                       |
| 26   | - Whiskeytown Lake Cold Water Pool Volume ≤58°F                       |
| 27   | - Whiskeytown Lake Cold Water Pool Volume ≤56°F                       |
| 28   | - Whiskeytown Lake Cold Water Pool Volume ≤60°F - Percent Exceedances |
| 29   | - Whiskeytown Lake Cold Water Pool Volume ≤58°F - Percent Exceedances |
| 30   | - Whiskeytown Lake Cold Water Pool Volume ≤56°F - Percent Exceedances |
| 31   | - Whiskeytown Lake Cold Water Pool Comparison by Year                 |

Whiskeytown Lake Isothermobaths Plot - 2025

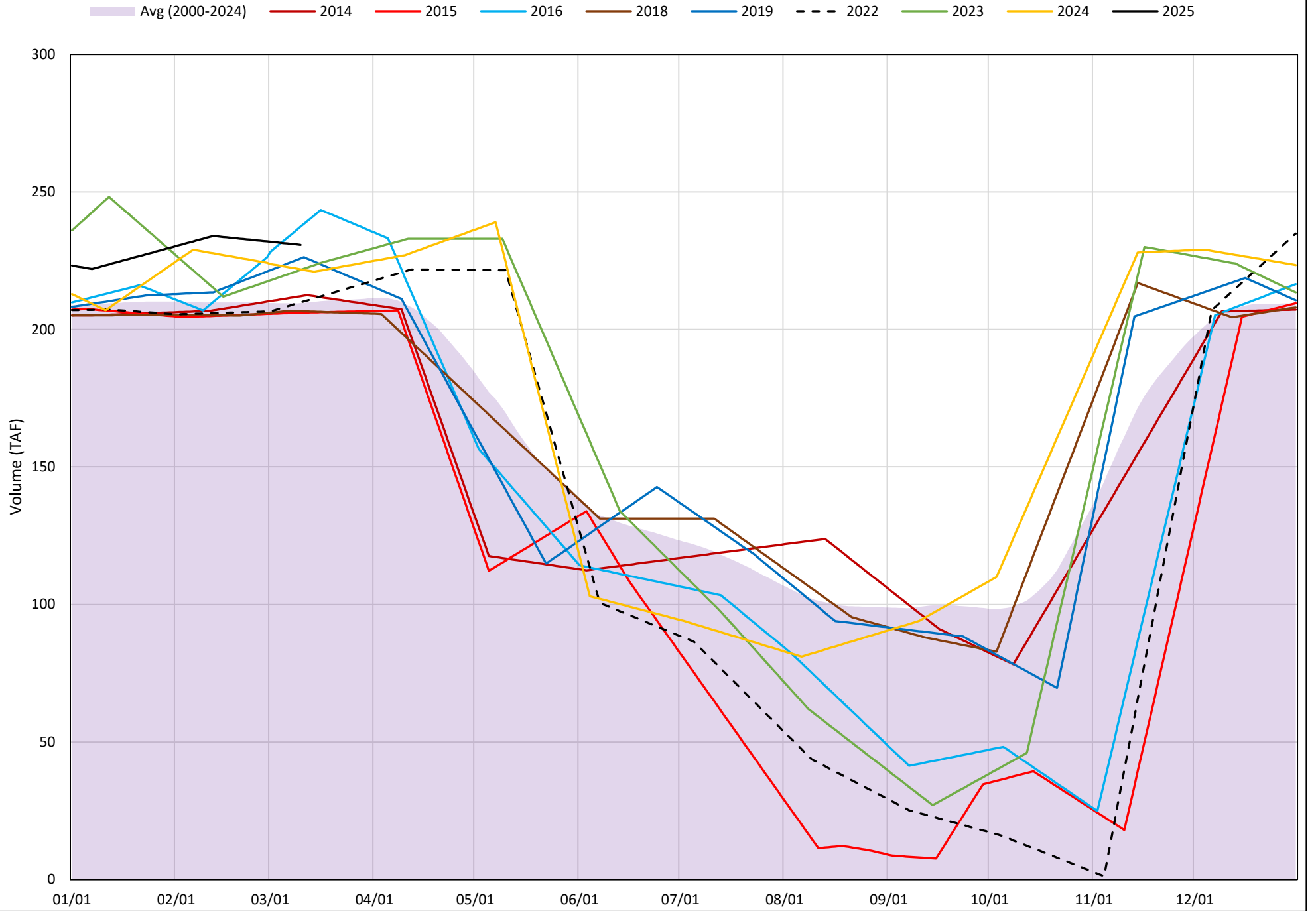




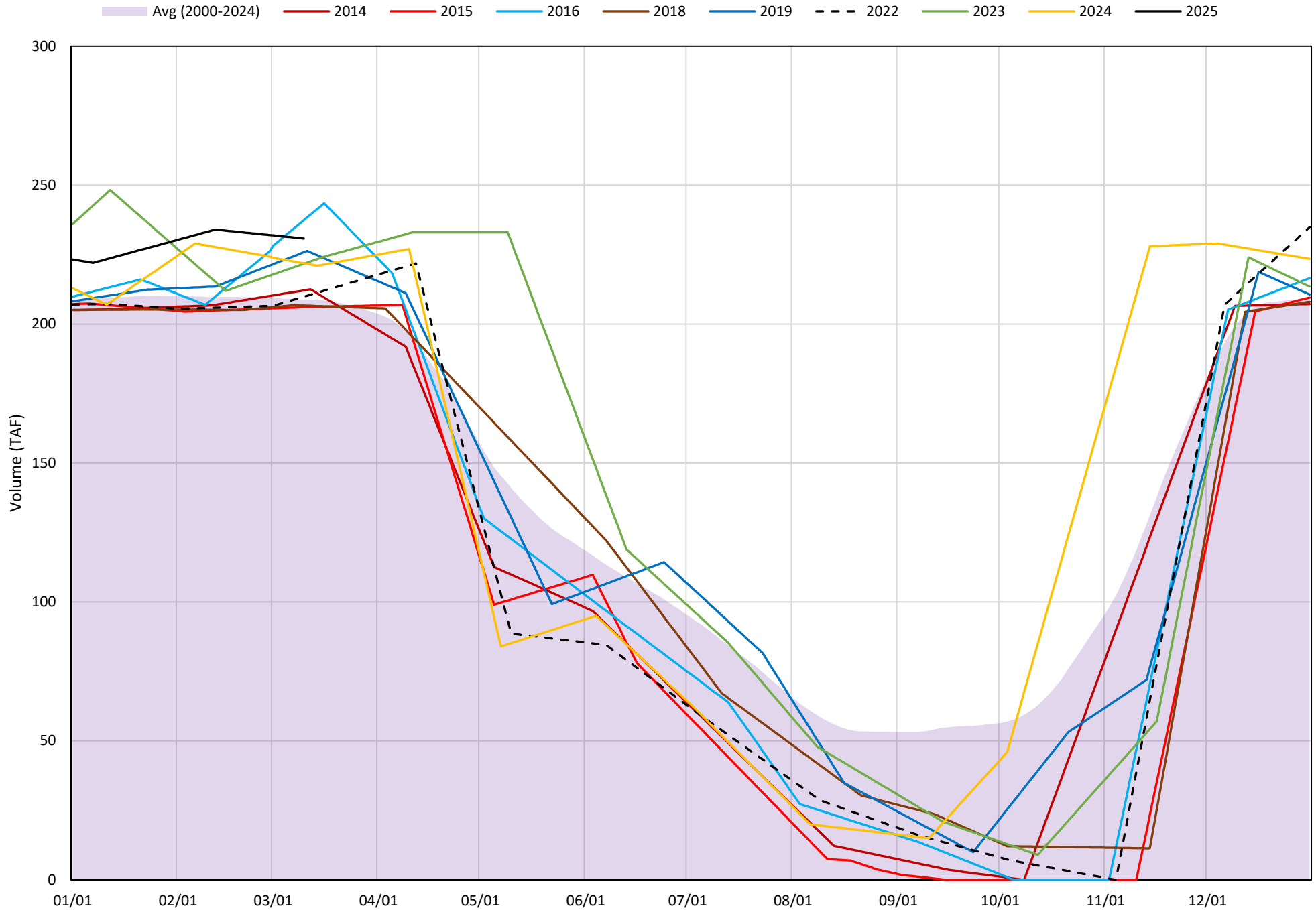
# Whiskeytown Lake Cold Water Pool Volume ≤60°F



# Whiskeytown Lake Cold Water Pool Volume ≤58°F

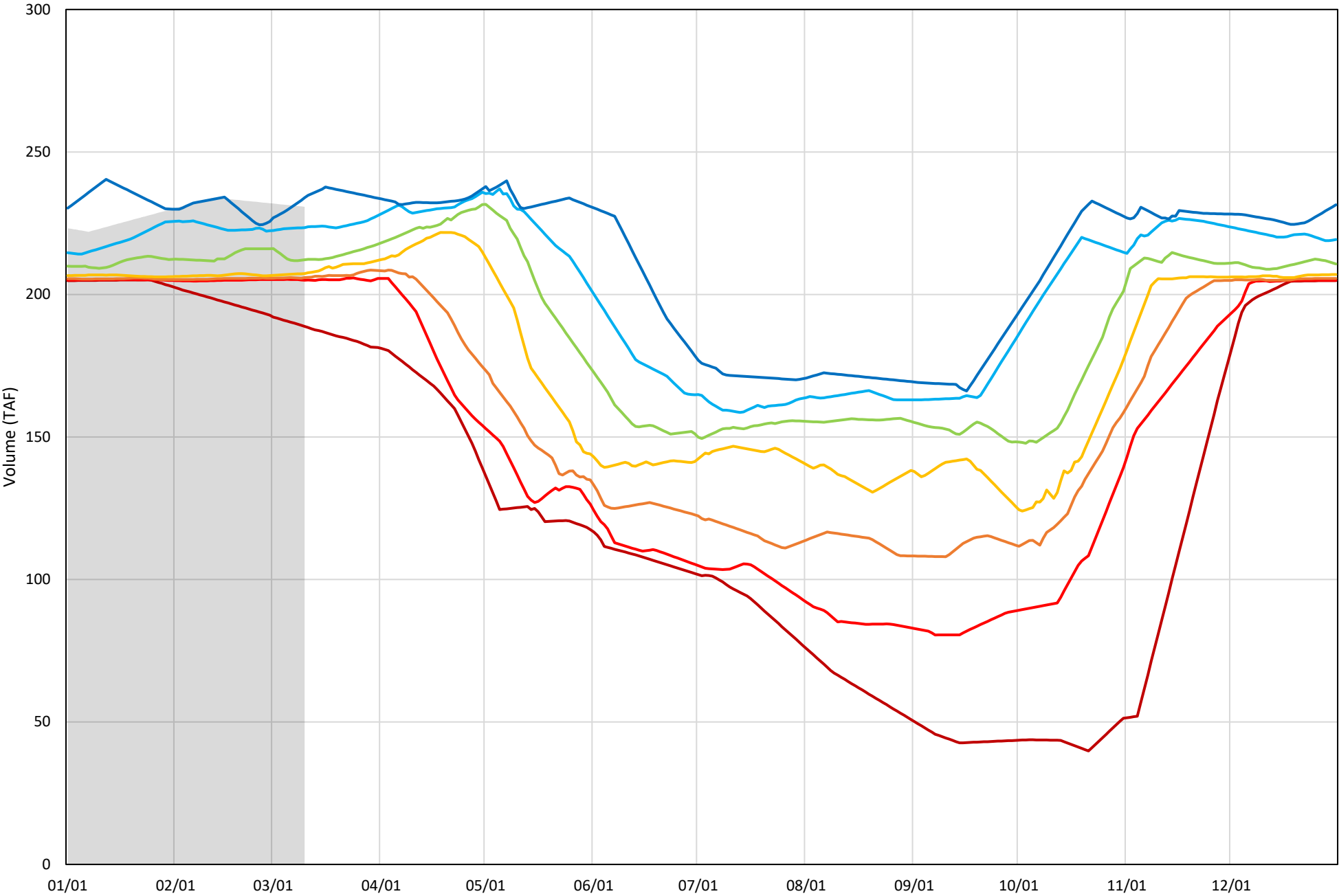


# Whiskeytown Lake Cold Water Pool Volume ≤56°F

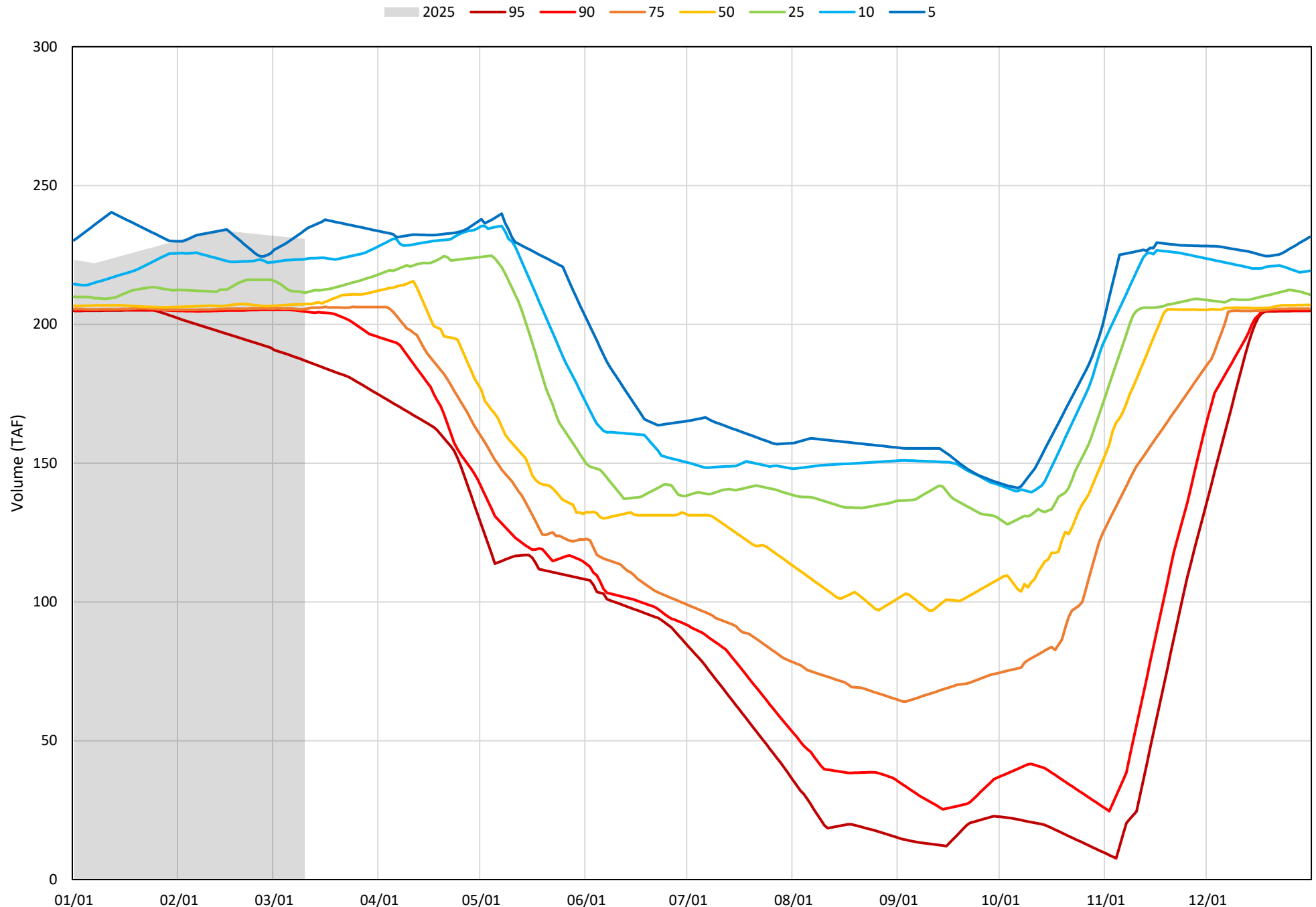


Whiskeytown Lake Cold Water Pool Volume ≤60°F - Percent Exceedances (2000-2024)

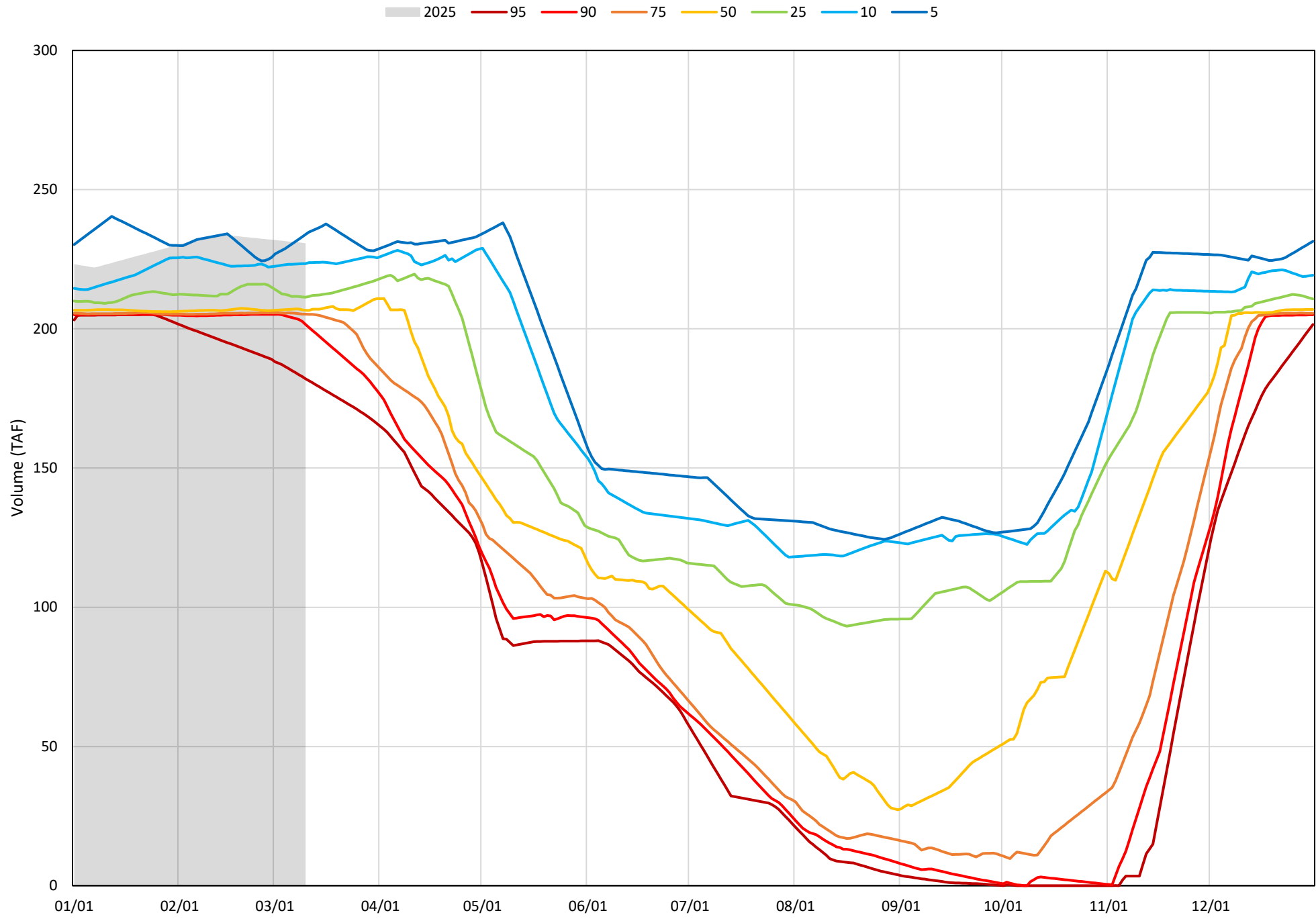
2025 95 90 75 50 25 10 5



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



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



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

| Mar-11<br>2025 | $\Delta$ 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           | -25.8           | -25.8           | -25.8           | 25.8      | -11.2           | -11.2           | -11.2           | 11.2      |
| 2001           | -17.4           | -20.1           | -27.4           | 21.6      | -7.5            | -8.7            | -11.9           | 9.4       |
| 2002           | -25.5           | -25.5           | -25.5           | 25.5      | -11.1           | -11.1           | -11.1           | 11.1      |
| 2003           | -24.7           | -24.7           | -24.7           | 24.7      | -10.7           | -10.7           | -10.7           | 10.7      |
| 2004           | -23.4           | -26.6           | -31.9           | 27.3      | -10.1           | -11.5           | -13.8           | 11.8      |
| 2005           | -24.8           | -24.8           | -24.8           | 24.8      | -10.7           | -10.7           | -10.7           | 10.7      |
| 2006           | -24.9           | -24.9           | -24.9           | 24.9      | -10.8           | -10.8           | -10.8           | 10.8      |
| 2007           | -23.5           | -23.5           | -24.2           | 23.7      | -10.2           | -10.2           | -10.5           | 10.3      |
| 2008           | -20.5           | -20.5           | -20.5           | 20.5      | -8.9            | -8.9            | -8.9            | 8.9       |
| 2009           | -18.5           | -18.5           | -18.5           | 18.5      | -8.0            | -8.0            | -8.0            | 8.0       |
| 2010           | -20.1           | -20.1           | -20.1           | 20.1      | -8.7            | -8.7            | -8.7            | 8.7       |
| 2011           | -20.7           | -20.7           | -20.7           | 20.7      | -9.0            | -9.0            | -9.0            | 9.0       |
| 2012           | -48.9           | -51.2           | -55.9           | 52.0      | -21.2           | -22.2           | -24.2           | 22.5      |
| 2013           | -25.5           | -25.5           | -25.5           | 25.5      | -11.1           | -11.1           | -11.1           | 11.1      |
| 2014           | -18.7           | -18.7           | -18.7           | 18.7      | -8.1            | -8.1            | -8.1            | 8.1       |
| 2015           | -24.7           | -24.7           | -24.7           | 24.7      | -10.7           | -10.7           | -10.7           | 10.7      |
| 2016           | 6.6             | 6.6             | 6.6             | 6.6       | 2.9             | 2.9             | 2.9             | 2.9       |
| 2017           | -23.4           | -23.4           | -23.4           | 23.4      | -10.2           | -10.2           | -10.2           | 10.2      |
| 2018           | -24.1           | -24.1           | -24.1           | 24.1      | -10.4           | -10.4           | -10.4           | 10.4      |
| 2019           | -5.0            | -5.0            | -5.0            | 5.0       | -2.2            | -2.2            | -2.2            | 2.2       |
| 2020           | -25.7           | -25.7           | -25.7           | 25.7      | -11.1           | -11.1           | -11.1           | 11.1      |
| 2021           | -23.7           | -23.7           | -23.7           | 23.7      | -10.3           | -10.3           | -10.3           | 10.3      |
| 2022           | -20.9           | -20.9           | -20.9           | 20.9      | -9.1            | -9.1            | -9.1            | 9.1       |
| 2023           | -9.1            | -9.1            | -9.1            | 9.1       | -3.9            | -3.9            | -3.9            | 3.9       |
| 2024           | -8.9            | -8.9            | -8.9            | 8.9       | -3.9            | -3.9            | -3.9            | 3.9       |
| 2025           | 0.0             | 0.0             | 0.0             | 0.0       | 0.0             | 0.0             | 0.0             | 0.0       |

Historical - Current

(Historical - Current) / Current