

# Water Supply Update

Board of Directors

January 24, 2023

# Water Supply Briefing

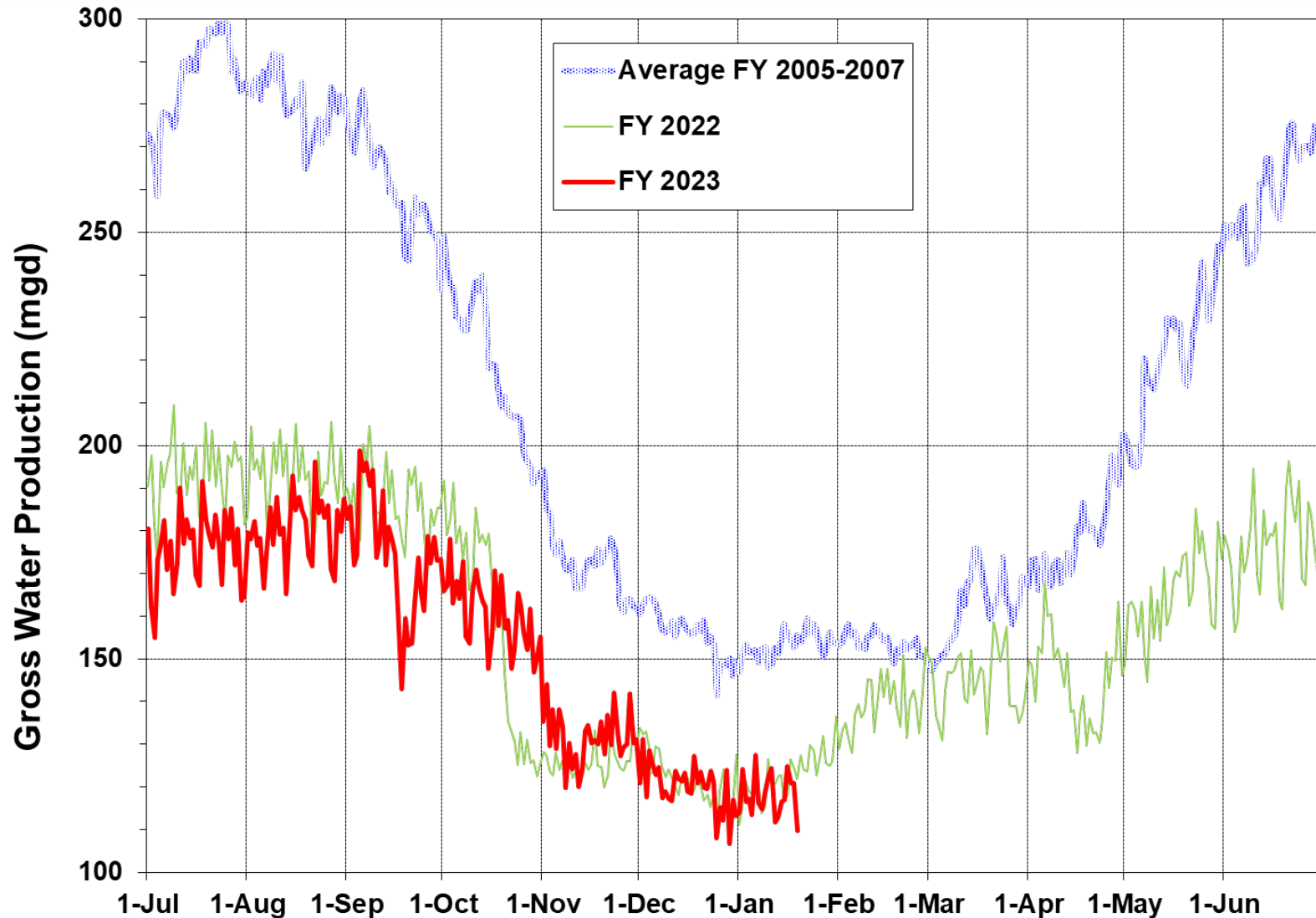


- Current Water Supply
- California Water Supply
- Water Supply Projections



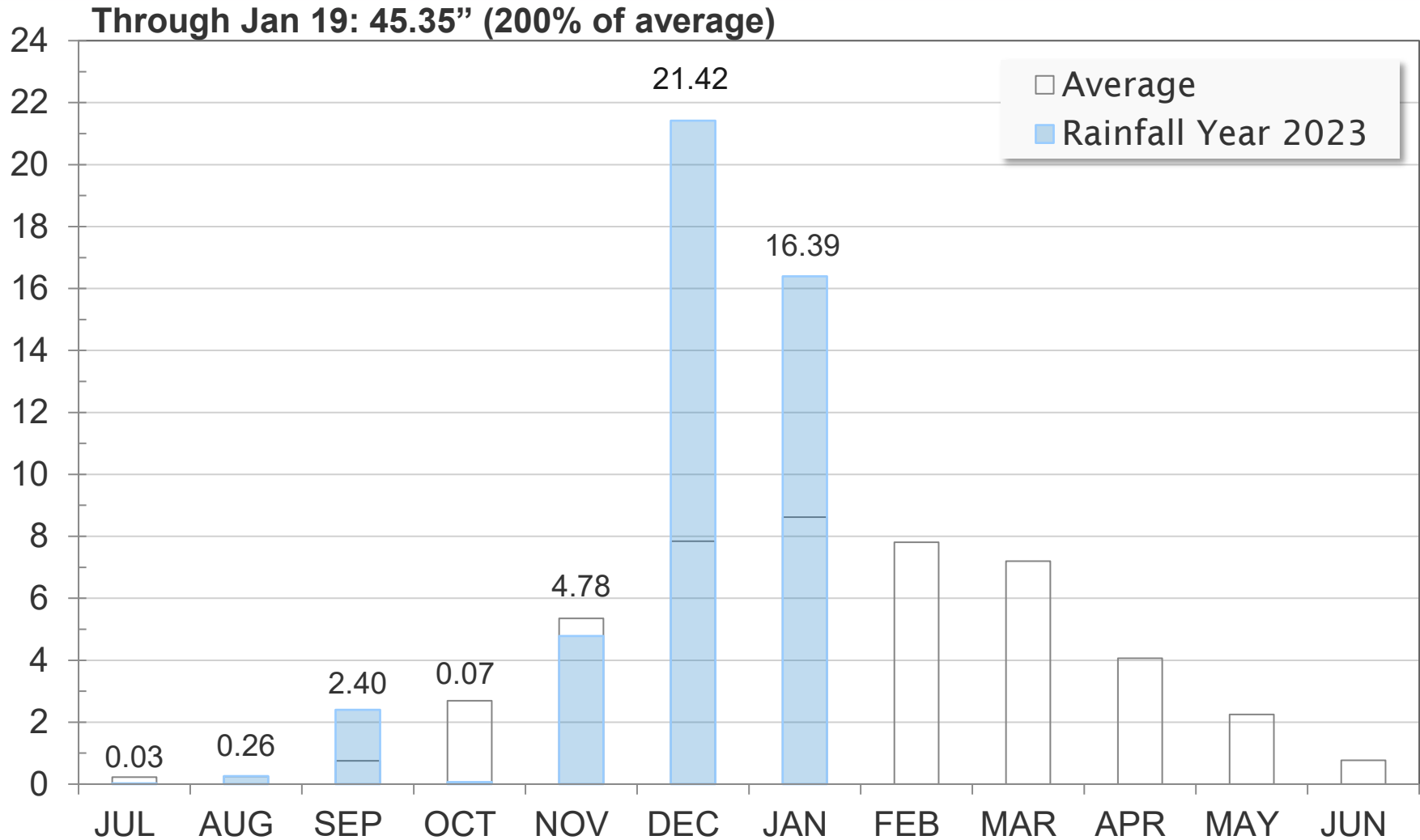
# Current Water Supply

## Gross Water Production



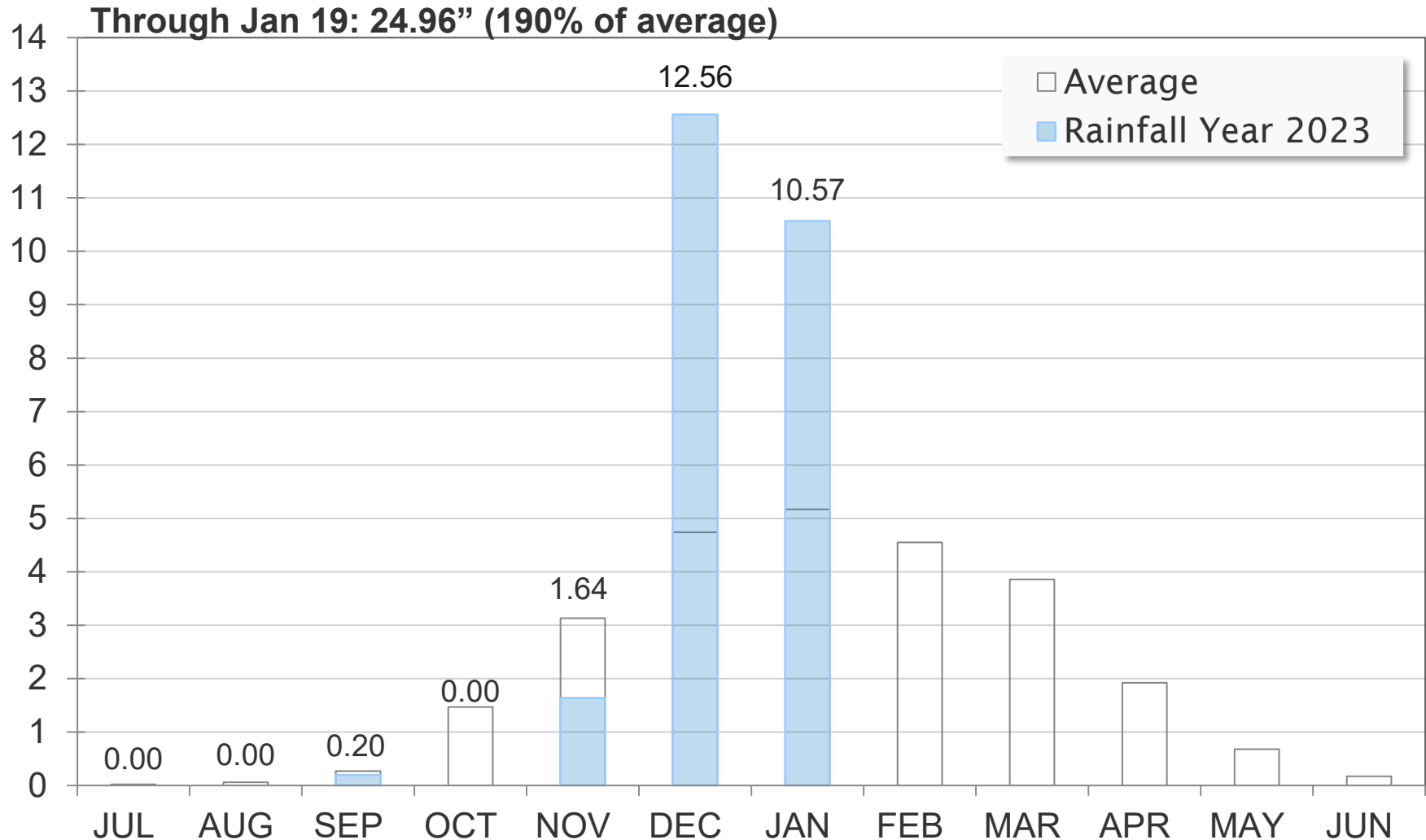
# Current Water Supply

## Mokelumne Precipitation



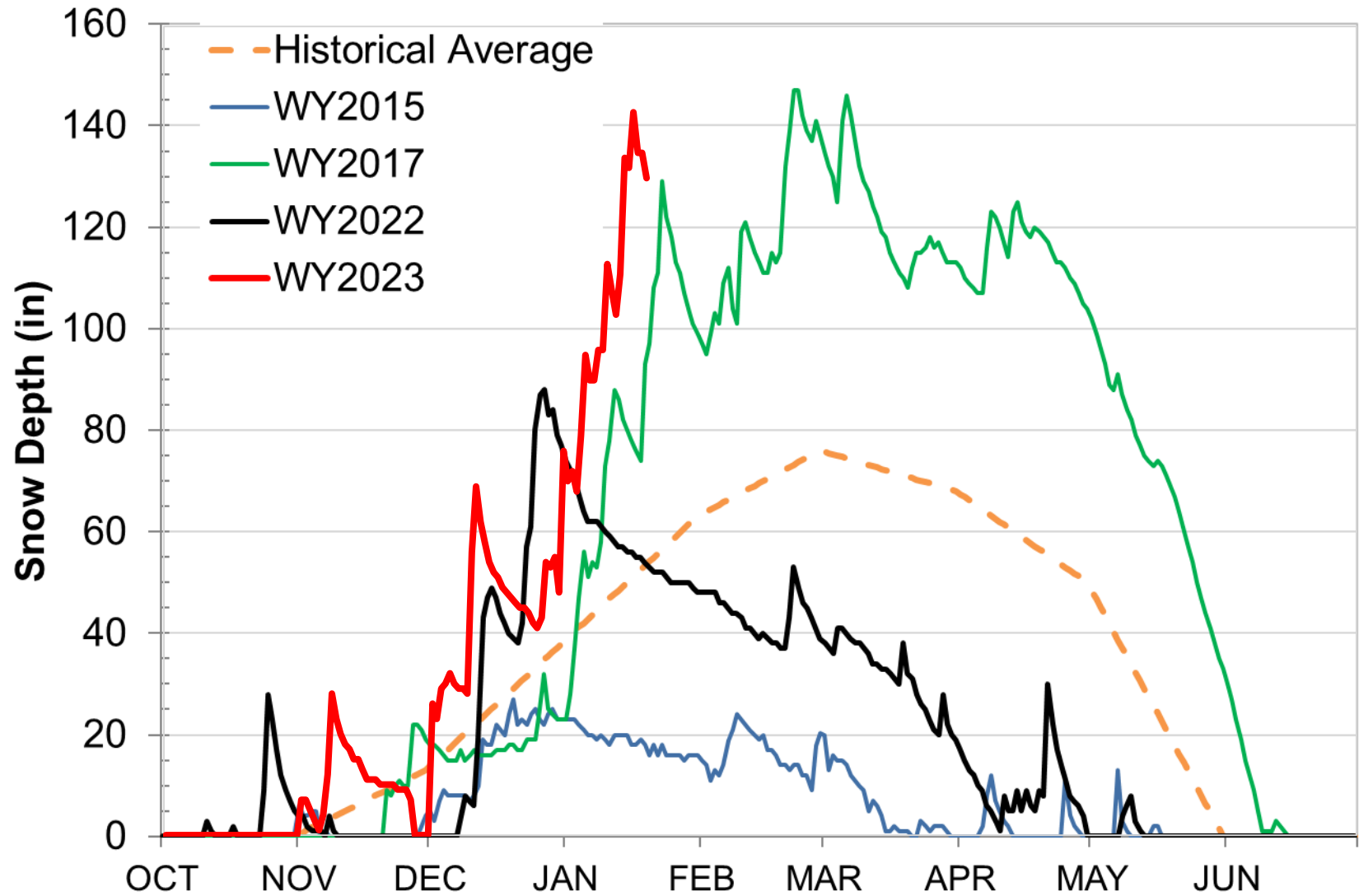
# Current Water Supply

## East Bay Precipitation



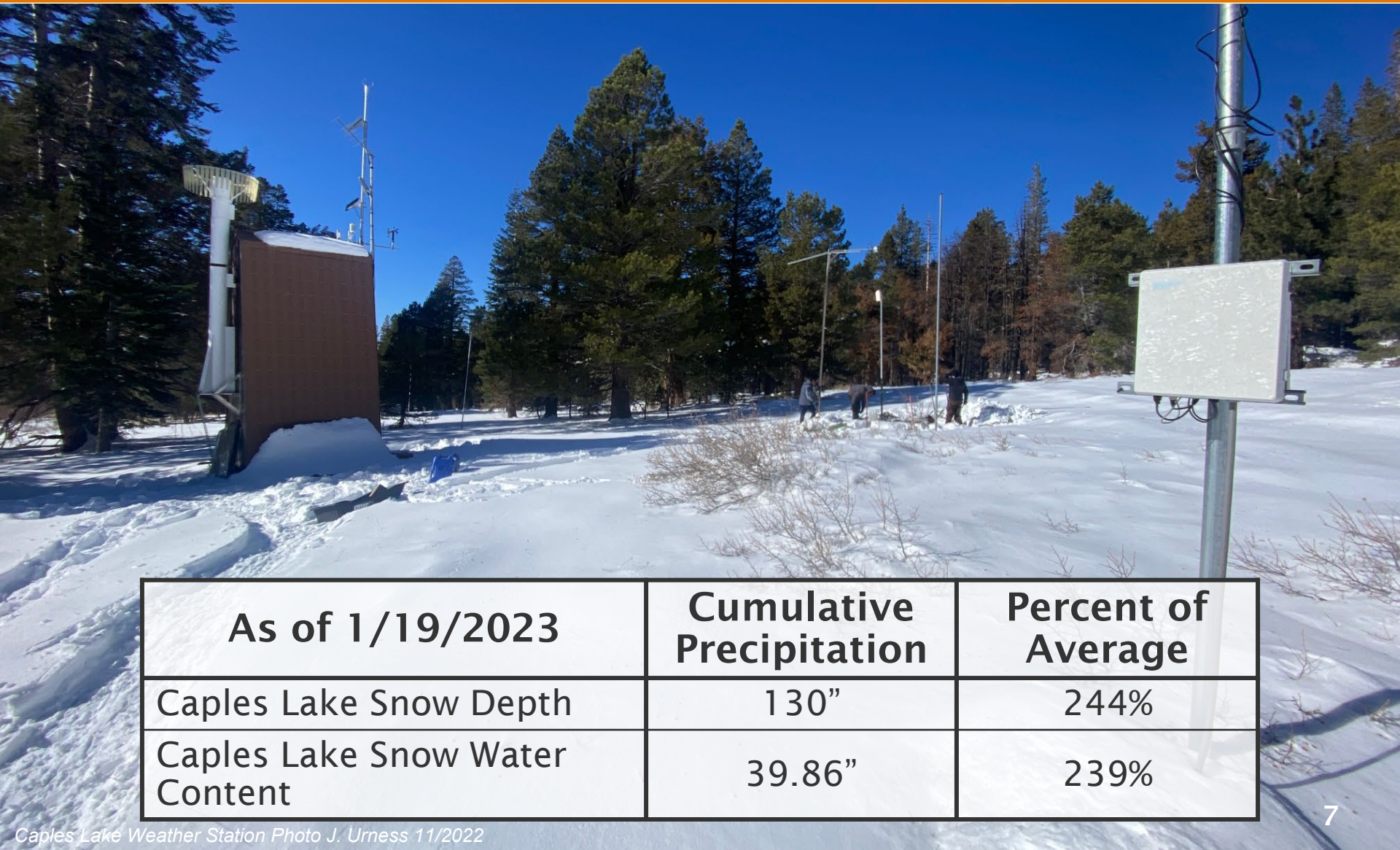
# Current Water Supply

## Caples Lake Snow Depth



# Current Water Supply

## Snow



| As of 1/19/2023                   | Cumulative<br>Precipitation | Percent of<br>Average |
|-----------------------------------|-----------------------------|-----------------------|
| Caples Lake Snow Depth            | 130"                        | 244%                  |
| Caples Lake Snow Water<br>Content | 39.86"                      | 239%                  |

# Current Water Supply

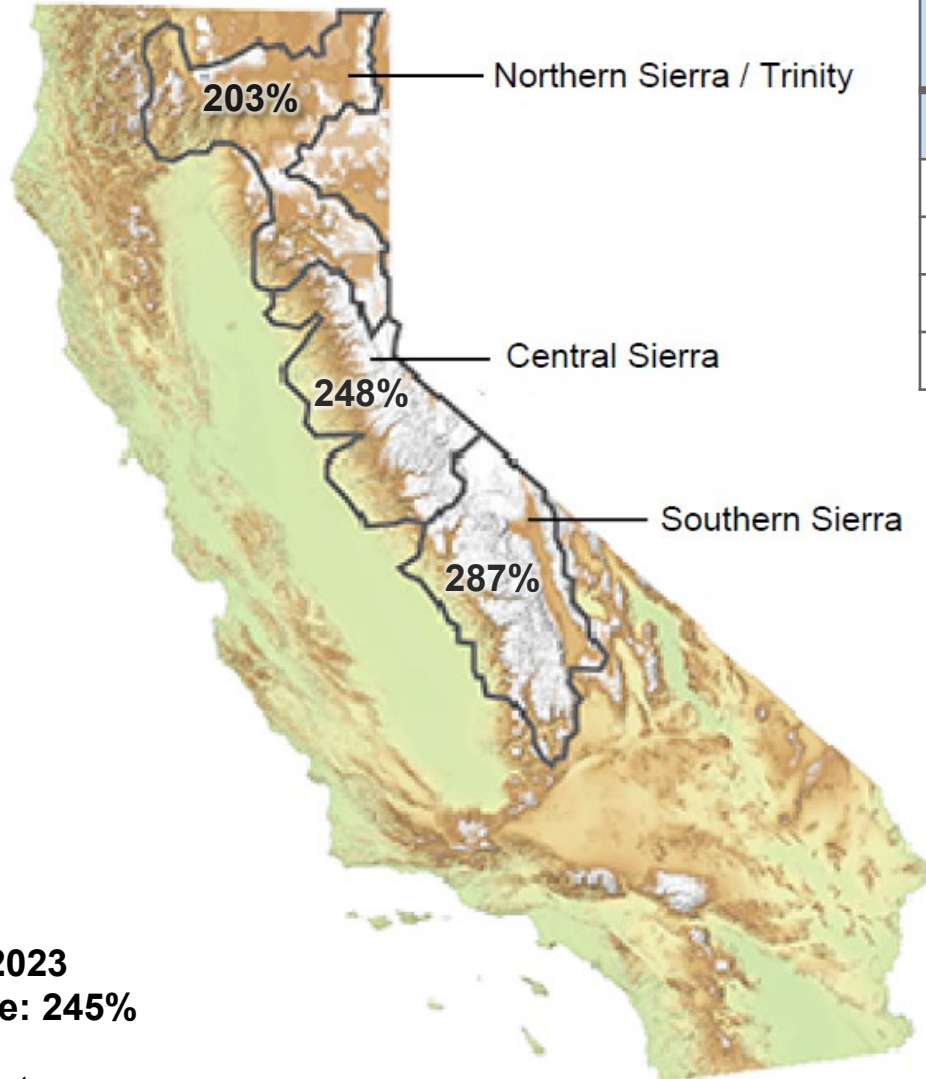
## Reservoir Storage



| As of 1/19/2023 | Current Storage | Percent of Average | Percent of Capacity |
|-----------------|-----------------|--------------------|---------------------|
| Pardee          | 199,420 AF      | 111%               | 98%                 |
| Camanche        | 312,520 AF      | 121%               | 75%                 |
| East Bay        | 151,230 AF      | 122%               | 101%                |
| Total System    | 663,170 AF      | 118%               | 86%                 |

# California Water Supply

## Change in Snow Water Equivalents



| Snow Water Content<br>Percent of Normal for this Date |       |         |       |       |
|-------------------------------------------------------|-------|---------|-------|-------|
| Date                                                  | North | Central | South | State |
| 12/1/22                                               | 104   | 100     | 123   | 106   |
| 1/1/23                                                | 139   | 187     | 209   | 179   |
| 1/9/23                                                | 173   | 201     | 222   | 199   |
| 1/19/23                                               | 203   | 248     | 287   | 245   |

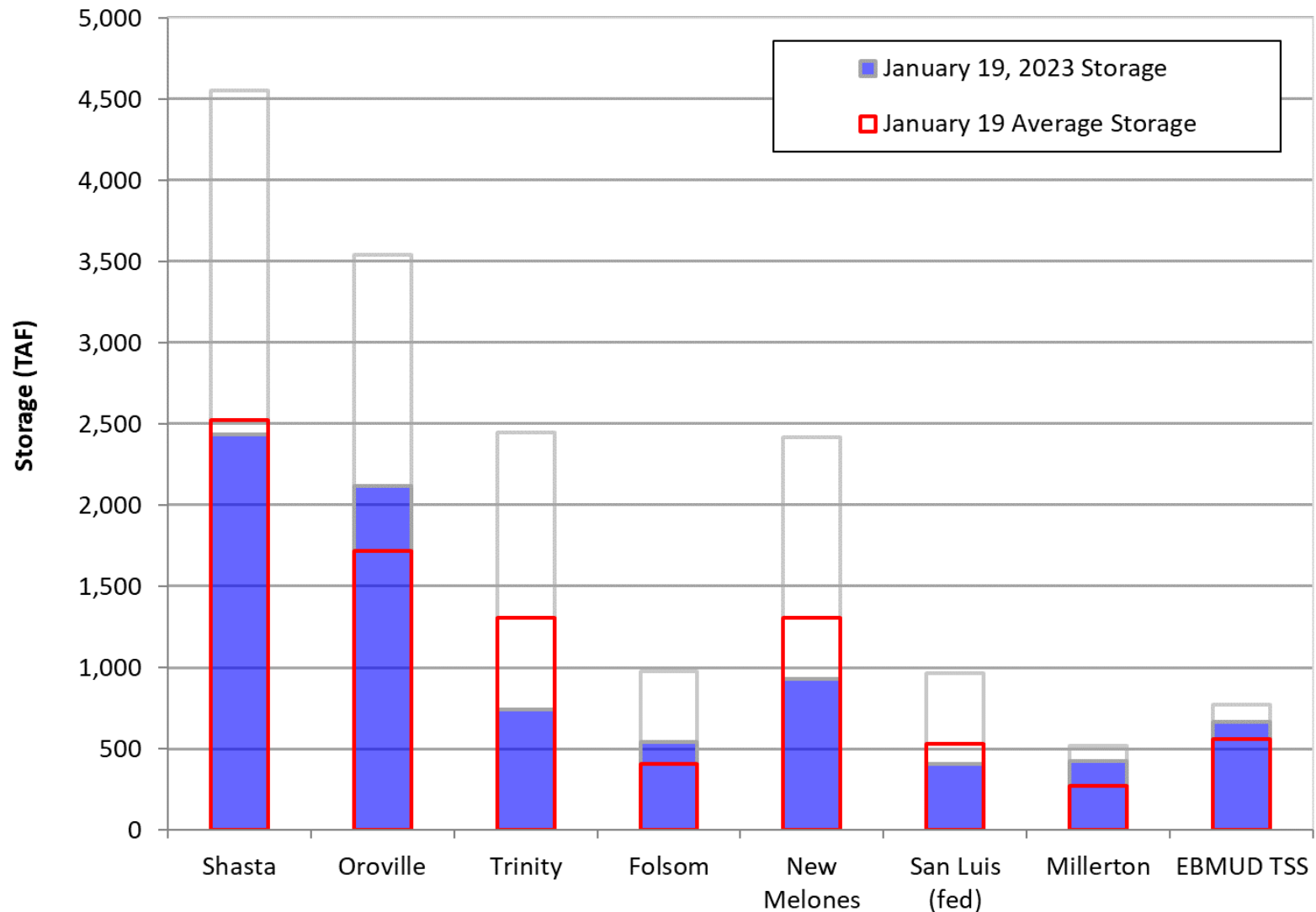


**Data for: 19-Jan-2023**  
**Statewide Average: 245%**

% of Normal for this Date

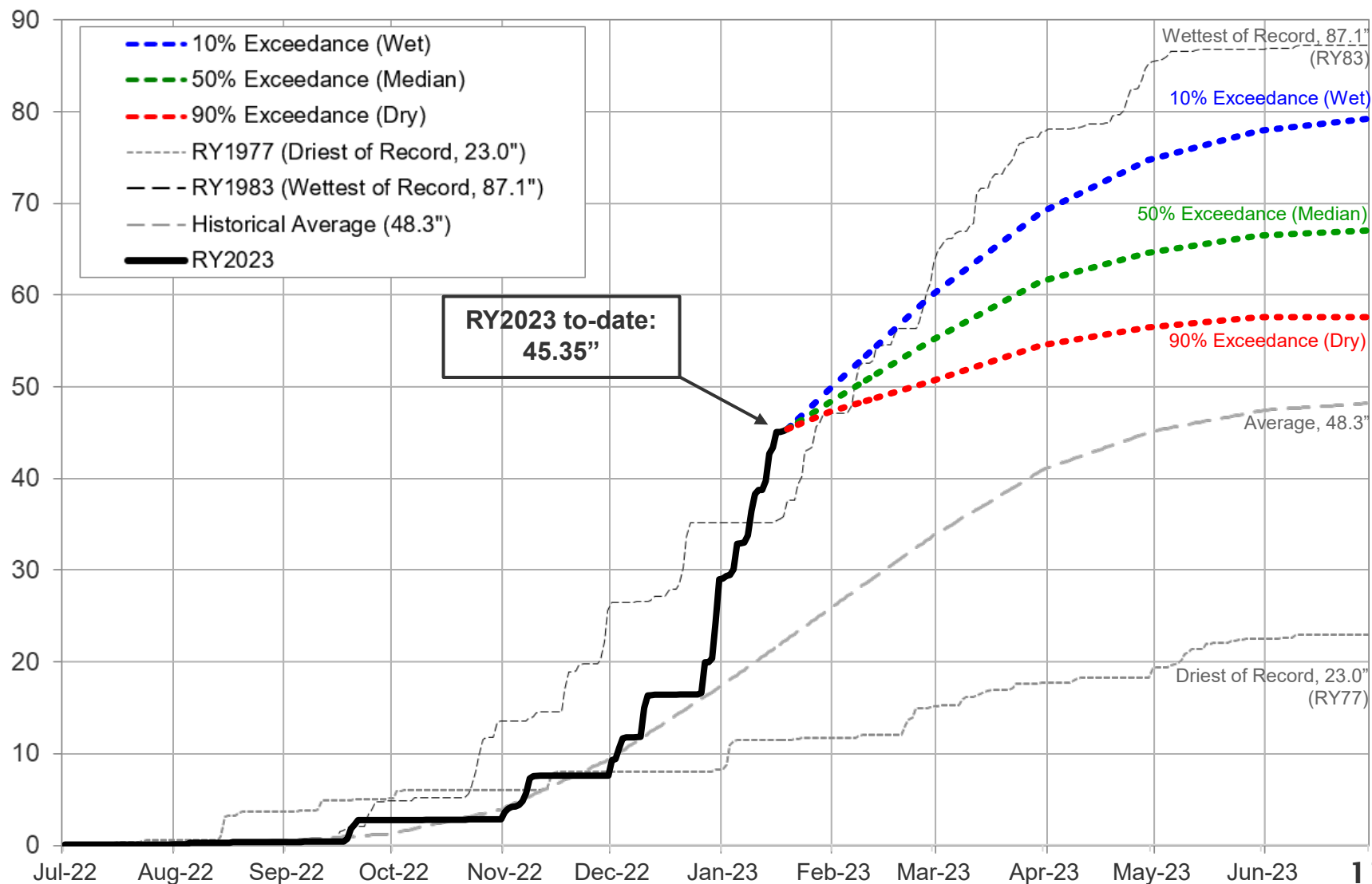
# Northern California Water Supply

## Current vs. Average Storage



# Water Supply Projections

## Mokelumne Precipitation Rainfall Year 2023

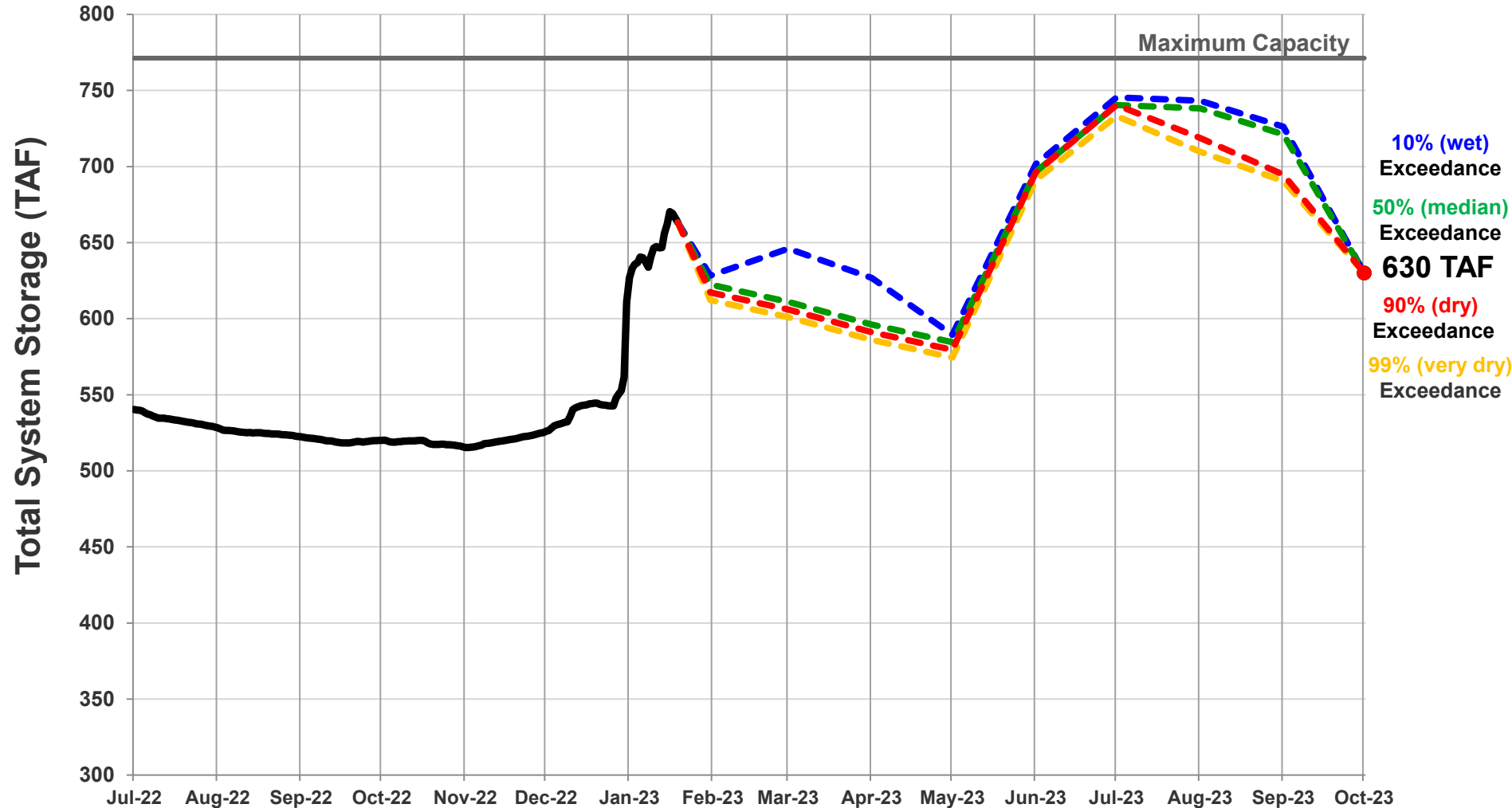


# Water Supply Projections

## Projected 2023 EBMUD Total System Storage



Total System Storage WY2023



# Questions ?



# WATER SUPPLY ENGINEERING DAILY REPORT

Thursday, January 19, 2023

## RESERVOIR STORAGE AND ELEVATION

|                             | <u>WATER SURFACE</u> |       | <u>STORAGE</u> |       | <u>MAXIMUM CAPACITY</u> |         | Release | Spill |
|-----------------------------|----------------------|-------|----------------|-------|-------------------------|---------|---------|-------|
|                             | Elevation            | +Gain |                | +Gain | Elevation               | Storage |         |       |
|                             | Feet                 | -Loss | Ac-Ft          | -Loss | Feet                    | Ac-Ft   | Cfs     | Cfs   |
| <u>MOKELUMNE</u>            |                      |       |                |       |                         |         |         |       |
| Pardee                      | 565.68               | -1.16 | 199420         | -2560 | 567.65                  | 203795  | 3388    | 0     |
| Camanche                    | 220.58               | -0.02 | 312520         | -130  | 235.5                   | 417120  | 3507    | 0     |
| <u>EAST BAY</u>             |                      |       |                |       |                         |         |         |       |
| Briones                     | 575.72               | 0.07  | 58670          | 50    | 576.14                  | 58960   | 0       | 0     |
| Chabot                      | 229.61               | -0.57 | 11170          | -200  | 227.25                  | 10350   | 0       | 392   |
| Lafayette                   | 441.1                | -0.02 | 3280           | -10   | 449.16                  | 4250    | 10      | 0     |
| San Pablo                   | 314.07               | -0.01 | 38240          | -10   | 313.68                  | 37915   | 0       | 71    |
| Upper San Leandro           | 461.22               | -0.37 | 39870          | -290  | 459.98                  | 38905   | 0       | 204   |
| <u>Total East Bay Res.</u>  |                      |       | 151230         | -460  |                         | 150380  |         |       |
| <u>TOTAL SYSTEM STORAGE</u> |                      |       | 663170         | -3150 |                         | 771295  |         |       |

| <u>DISTRIBUTION SYSTEM</u>        |         |           | <u>MOKELUMNE SYSTEM</u>                               |      |                 |
|-----------------------------------|---------|-----------|-------------------------------------------------------|------|-----------------|
| <u>DISTRIBUTION RESERVOIRS</u>    |         |           | <u>AQUEDUCT DELIVERIES</u>                            |      |                 |
|                                   | Storage | Operating |                                                       | MG   | Flow Conditions |
|                                   | MG      | Capacity  |                                                       |      |                 |
| Today                             | 364     | 720       | Line 1                                                | 20.7 | THROTTLE        |
| Total Previous Day                | 339     |           | Line 2                                                | 0    | SHUTDOWN        |
| Total Change                      | 25      |           | Line 3                                                | 65.4 | THROTTLE        |
|                                   |         |           | TOTAL                                                 | 86.1 | 133 Cfs         |
| <u>WATER PRODUCTION</u>           | Million | Capacity  | <u>FSCC to MOK AQUEDUCTS (Measured at Brandt), MG</u> |      |                 |
| <u>AND DEMAND</u>                 | Gallons | MGD       | Mok 1                                                 | 0    |                 |
| Lafayette WTP                     | 0       | 25        | Mok 2                                                 | 0    |                 |
| Orinda WTP                        | 46      | 190       |                                                       | 0 MG |                 |
| San Pablo WTP                     | 0       | 30        | <u>RIVER FLOWS AND RELEASES</u>                       |      | <u>Cfs</u>      |
| Sobrante WTP                      | 33.9    | 50        | Mokelumne River Natural Flow                          |      | 2554            |
| Upper San Leandro WTP             | 29.1    | 45        | Pardee Reservoir Inflow                               |      | 2219            |
| Walnut Creek WTP                  | 26.9    | 90        | Pardee Release to Camanche Res.                       |      | 3388            |
| <u>TOTAL SURFACE PRODUCTION</u>   | 135.9   | 430       | Pardee Release to JVID                                |      | 0               |
| Miscellaneous(Estimated)          | 0.4     |           | Camanche Release to Mokel. River                      |      | 3507            |
| <u>TOTAL WATER PRODUCTION</u>     | 136.3   |           | <u>PG&amp;E CO. STORAGE (Acre-feet)</u>               |      |                 |
| Change in Distribution System     | 25      |           |                                                       |      |                 |
| Wash Water from Distribution Sys. | 1.1     |           |                                                       |      |                 |
| <u>SYSTEM DEMAND</u>              | 109.8   |           |                                                       |      |                 |
| East-of-Hills Demand              | 23      |           |                                                       |      |                 |
| West-of-Hills Demand              | 86.8    |           |                                                       |      |                 |

| <u>RAW WATER TRANSMISSION</u>          |       |       | <u>PRECIPITATION (Inches)</u>      |              |                     |                       |                       |
|----------------------------------------|-------|-------|------------------------------------|--------------|---------------------|-----------------------|-----------------------|
|                                        | INPUT | DRAFT | <u>THIS YEAR</u>                   |              | <u>AVERAGE YEAR</u> |                       |                       |
| Briones Res.                           | 0     | 0     | <u>STATION</u>                     | <u>Today</u> | <u>This Month</u>   | <u>Season to-Date</u> | <u>Season to-Date</u> |
| San Pablo Res.                         | 41    | 110   |                                    |              |                     |                       |                       |
| U. San Leandro Res.                    | 0     | 95    |                                    |              |                     |                       |                       |
| <u>TOTAL</u>                           | 41    | 205   | USL WTP                            | 0            | 10.52               | 26.64                 | 12.62                 |
| <u>REMARKS</u>                         |       |       | Orinda WTP                         | 0.03         | 13.83               | 31.45                 | 15.43                 |
| WID Canal Diversion = 0 cfs            |       |       | Lafayette Reservoir                | 0            | 10.61               | 23.28                 | 13.72                 |
| Mokelumne River below WID = 3,448 cfs  |       |       | Walnut Creek WTP                   | 0.01         | 12.32               | 27.68                 | 11.25                 |
|                                        |       |       | Camp Pardee                        | 0.17         | 7.88                | 22.2                  | 9.9                   |
|                                        |       |       | Salt Springs P.H.                  | 0.24         | 16.93               | 43.57                 | 21.32                 |
|                                        |       |       |                                    |              |                     |                       |                       |
|                                        |       |       | <u>CAPLES LAKE (7,830 FT) DATA</u> |              |                     |                       |                       |
|                                        |       |       |                                    | <u>Today</u> | <u>Average</u>      |                       |                       |
| PG&E data as of 4:00 pm previous date. |       |       | Snow Depth                         | 130 Inches   | 53 Inches           |                       |                       |
| All other data as of midnight.         |       |       | Water Content                      | 39.9 Inches  | 16.7 Inches         |                       |                       |
| WTP capacities are sustainable rates.  |       |       |                                    |              |                     |                       |                       |

EAST BAY MUNICIPAL UTILITY DISTRICT