



**COLORADO**  
Division of Water Resources  
Department of Natural Resources

## South Platte Summary September 2024

Compiled by Lee Cunning, P.E.

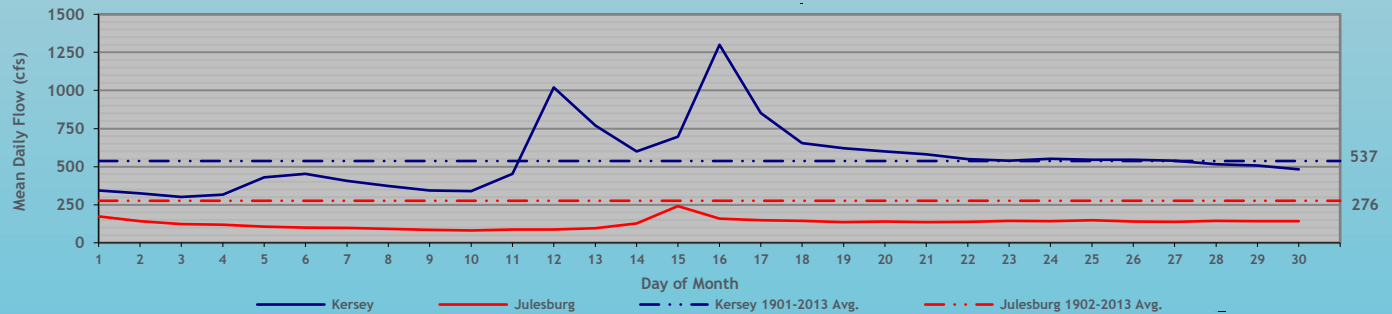


# COLORADO DIVISION OF WATER RESOURCES, DIVISION 1

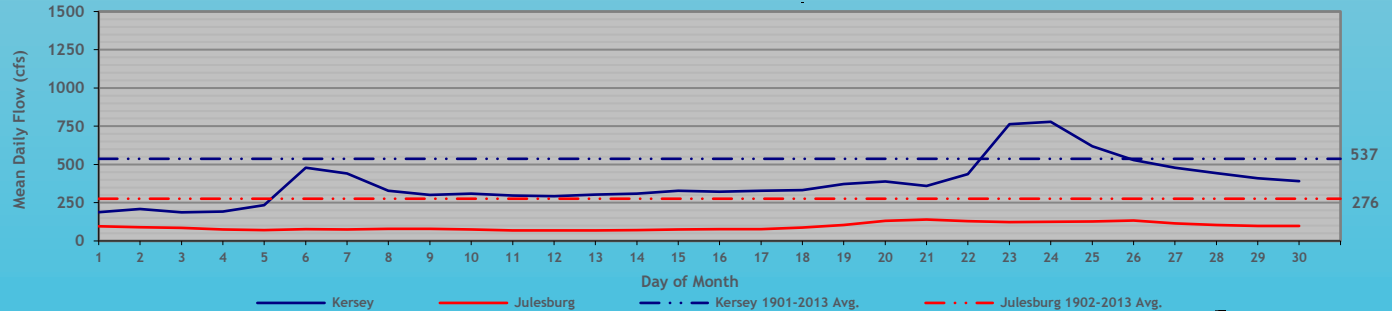
## MONTH OF September 2024

| RESERVOIR   | FULL ALLOWABLE CAPACITY (ACRE FEET) | FIRST OF MONTH (ACRE FEET) | END OF MONTH (ACRE FEET) | DISTRICT | CHANGE IN STORAGE (ACRE FEET) | % CHANGE IN STORAGE BASED ON FIRST OF MONTH STORAGE | % OF CURRENT FULL ALLOWABLE CAPACITY | % OF CURRENT FULL ALLOWABLE CAPACITY THIS MONTH LAST YEAR | SURCHARGE (ACRE FEET) |
|-------------|-------------------------------------|----------------------------|--------------------------|----------|-------------------------------|-----------------------------------------------------|--------------------------------------|-----------------------------------------------------------|-----------------------|
| JULESBURG   | 22,666                              | 9,619                      | 6,876                    | 64       | -2,743                        | -29%                                                | 30%                                  | 38%                                                       | 0                     |
| N STERLING  | 73,730                              | 25,660                     | 12,620                   | 64       | -13,040                       | -51%                                                | 17%                                  | 39%                                                       | 0                     |
| PREWITT     | 28,500                              | 20,569                     | 17,782                   | 64       | -2,787                        | -14%                                                | 62%                                  | 68%                                                       | 0                     |
| JACKSON     | 27,257                              | 14,312                     | 11,137                   | 1        | -3,175                        | -22%                                                | 41%                                  | 78%                                                       | 0                     |
| EMPIRE      | 37,700                              | 13,306                     | 8,492                    | 1        | -4,814                        | -36%                                                | 23%                                  | 44%                                                       | 0                     |
| RIVERSIDE   | 63,113                              | 22,036                     | 14,132                   | 1        | -7,904                        | -36%                                                | 22%                                  | 44%                                                       | 0                     |
| BARR LAKE   | 32,152                              | 10,202                     | 4,263                    | 2        | -5,939                        | -58%                                                | 13%                                  | 100%                                                      | 0                     |
| CHEESMAN    | 79,064                              | 76,025                     | 72,486                   | 80       | -3,539                        | -5%                                                 | 92%                                  | 97%                                                       | 0                     |
| ELEVEN MILE | 97,779                              | 100,761                    | 99,899                   | 23       | -862                          | -1%                                                 | 100%                                 | 100%                                                      | 2,120                 |
| SPINNEY     | 53,651                              | 44,234                     | 37,194                   | 23       | -7,040                        | -16%                                                | 69%                                  | 72%                                                       | 0                     |
| ANTERO      | 20,015                              | 17,568                     | 17,630                   | 23       | 62                            | 0%                                                  | 88%                                  | 99%                                                       | 0                     |

KERSEY and JULESBURG  
September 2023



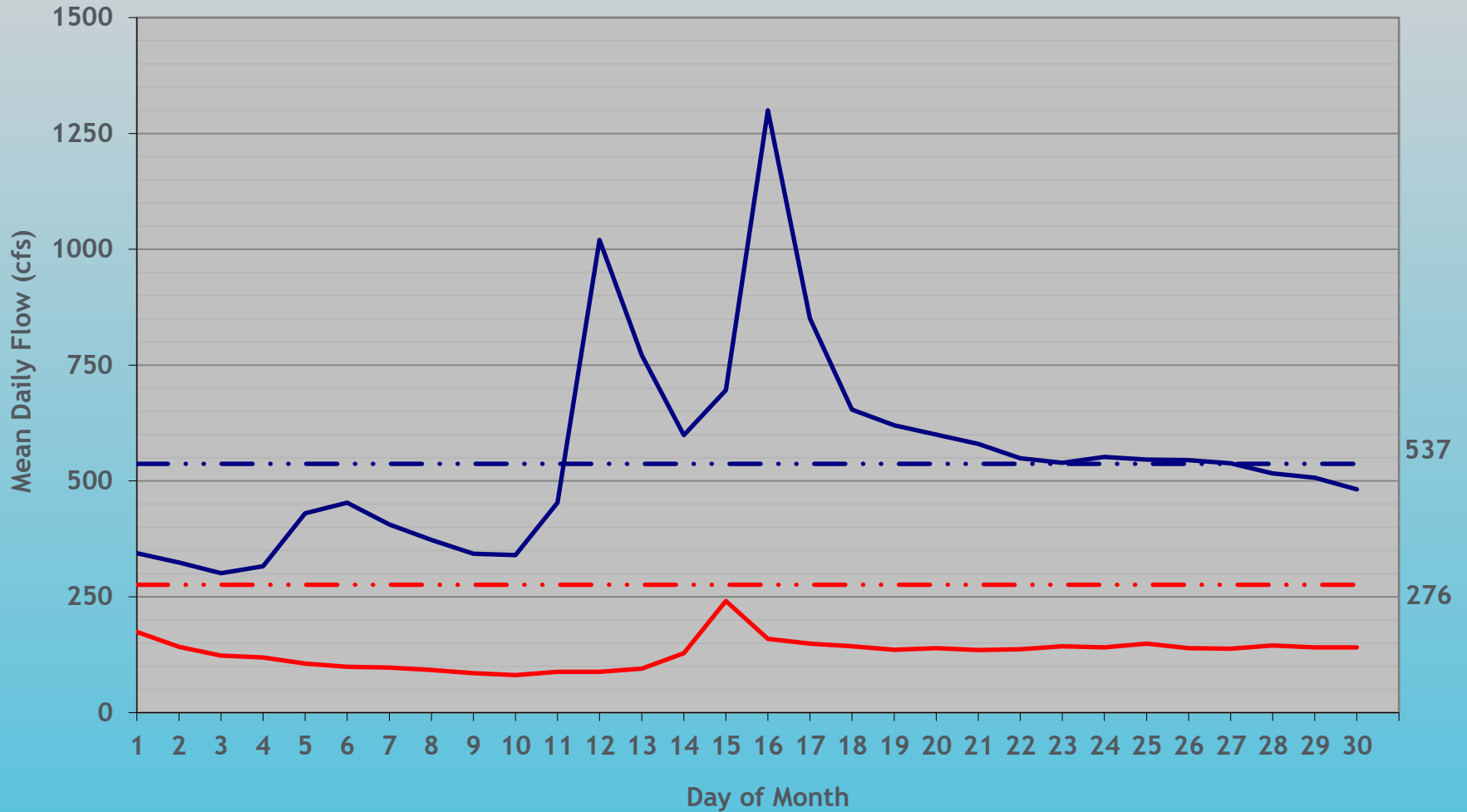
KERSEY and JULESBURG  
September 2024



| RIVER GAGES                | MEAN DAILY FLOW (CFS) |
|----------------------------|-----------------------|
| KERSEY                     | 379                   |
| JULESBURG                  | 94                    |
| THIS MONTH LAST YEAR       |                       |
| KERSEY                     | 552                   |
| JULESBURG                  | 130                   |
| MEAN FOR PERIOD OF RECORD* |                       |
| KERSEY                     | 537                   |
| JULESBURG                  | 276                   |
| *Kersey 1901 - 2016        |                       |
| *Julesburg 1902 - 2016     |                       |

# KERSEY and JULESBURG

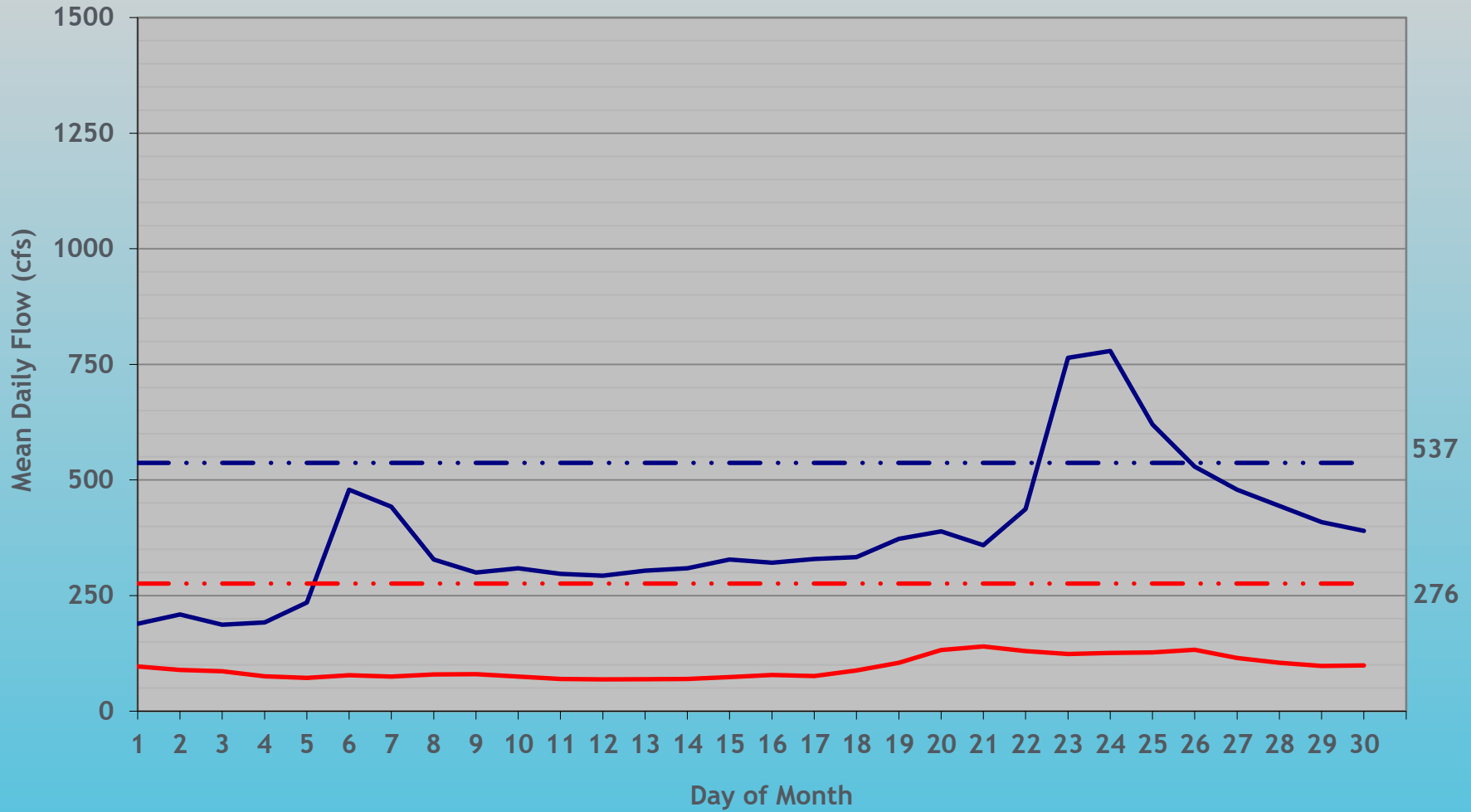
## September 2023



— Kersey — Julesburg — • Kersey 1901-2013 Avg. — • Julesburg 1902-2013 Avg.

# KERSEY and JULESBURG

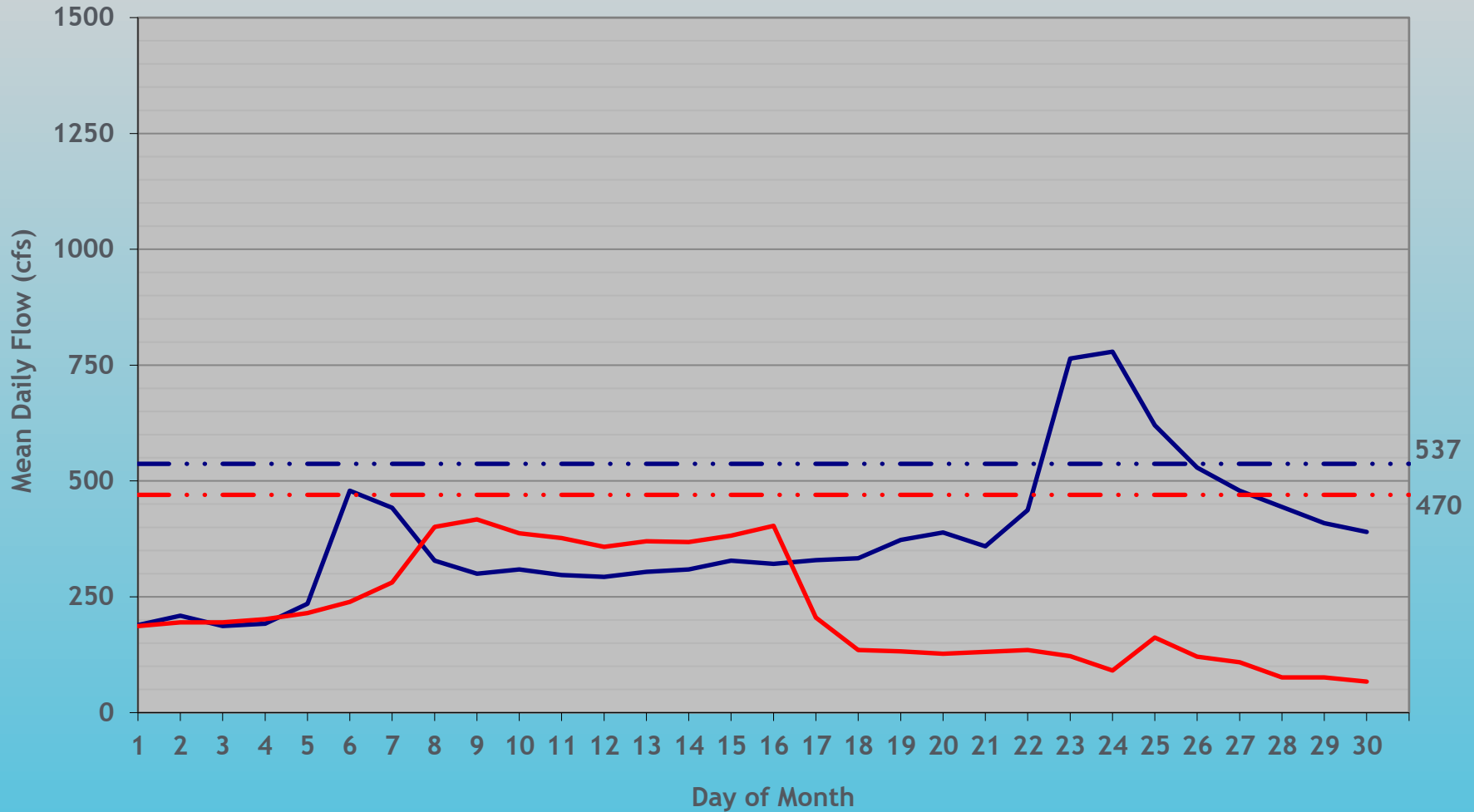
## September 2024



— Kersey — Julesburg — • Kersey 1901-2013 Avg. — • Julesburg 1902-2013 Avg.

# KERSEY and BALZAC

## September 2024



— Kersey

— Balzac

· Kersey 1901-2013 Avg.

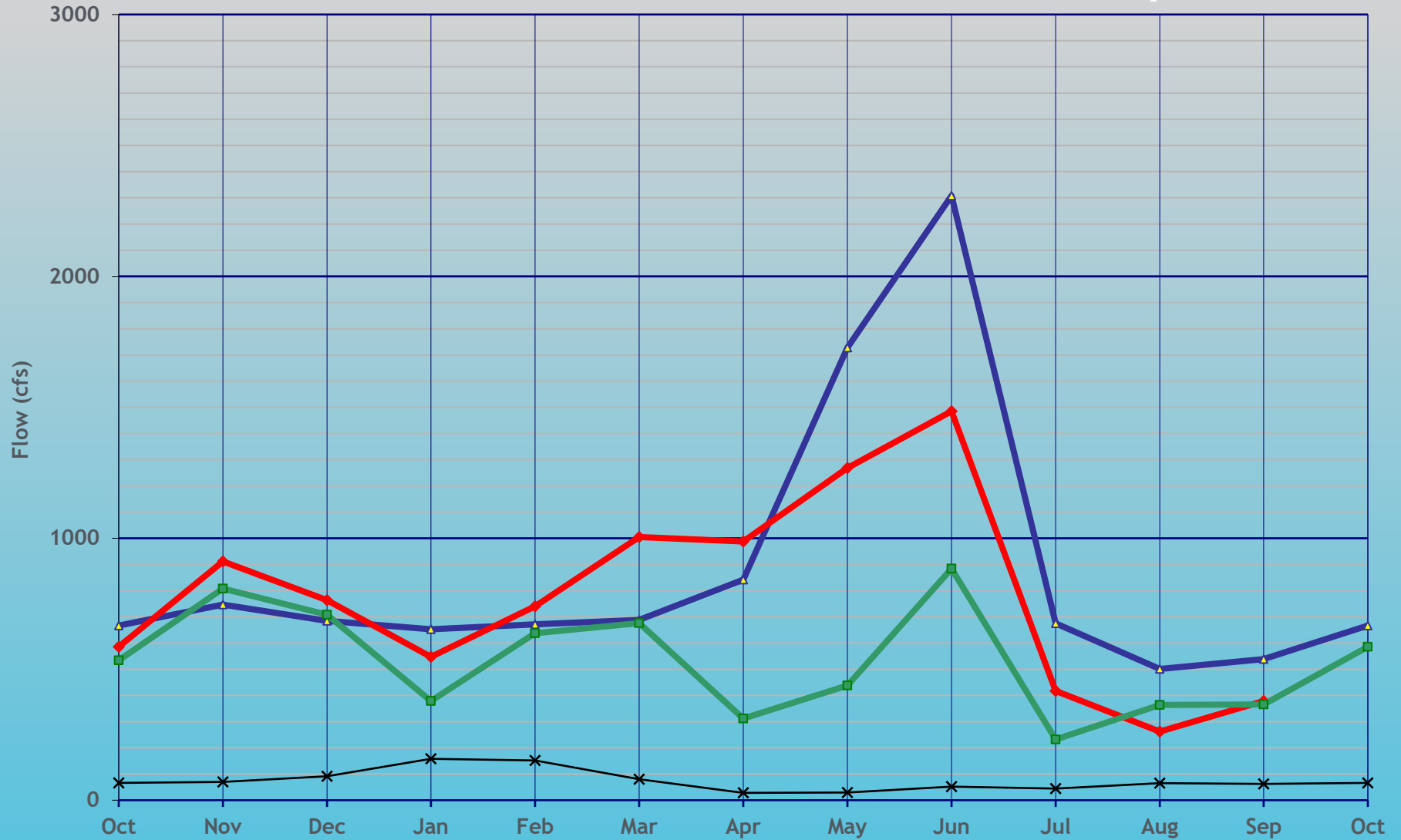
· Balzac 1917-2013 Avg.

# South Platte River Monthly Stream Flow (cfs) Statistics

| South Platte River at Kersey |                        |                       |      |                       |      |                              | South Platte River at Julesburg |                        |                       |      |                       |      |                              |
|------------------------------|------------------------|-----------------------|------|-----------------------|------|------------------------------|---------------------------------|------------------------|-----------------------|------|-----------------------|------|------------------------------|
| Month                        | Historic*<br>Mean Flow | Historic*<br>Max Flow | Year | Historic*<br>Min Flow | Year | IY 2024<br>Mean Monthly Flow | Month                           | Historic*<br>Mean Flow | Historic*<br>Max Flow | Year | Historic*<br>Min Flow | Year | IY 2024<br>Mean Monthly Flow |
| Oct                          | 667                    | 6180                  | 1984 | 66                    | 1954 | 586                          | Oct                             | 299                    | 3130                  | 1984 | 4.2                   | 1903 | 94                           |
| Nov                          | 747                    | 3650                  | 1984 | 70                    | 1934 | 912                          | Nov                             | 335                    | 2900                  | 1984 | 4.2                   | 1903 | 30                           |
| Dec                          | 685                    | 1890                  | 1961 | 91                    | 1934 | 764                          | Dec                             | 401                    | 1820                  | 1984 | 13                    | 2002 | 318                          |
| Jan                          | 652                    | 2160                  | 1974 | 158                   | 1935 | 547                          | Jan                             | 512                    | 2510                  | 1970 | 21                    | 2003 | 885                          |
| Feb                          | 671                    | 3060                  | 1914 | 152                   | 1935 | 740                          | Feb                             | 578                    | 3220                  | 1930 | 29                    | 2005 | 625                          |
| Mar                          | 688                    | 3470                  | 1983 | 80                    | 1935 | 1005                         | Mar                             | 512                    | 12900                 | 1910 | 15                    | 1904 | 313                          |
| Apr                          | 842                    | 18100                 | 1942 | 28                    | 1955 | 988                          | Apr                             | 514                    | 14400                 | 1942 | 4.0                   | 1904 | 267                          |
| May                          | 1728                   | 26100                 | 1973 | 29                    | 1955 | 1268                         | May                             | 994                    | 18100                 | 1973 | 12                    | 1911 | 539                          |
| Jun                          | 2308                   | 31000                 | 1921 | 52                    | 1954 | 1485                         | Jun                             | 1426                   | 30800                 | 1921 | 2.0                   | 1910 | 175                          |
| Jul                          | 675                    | 12600                 | 1983 | 44                    | 1955 | 417                          | Jul                             | 311                    | 12600                 | 1983 | 0.0                   | 1903 | 49                           |
| Aug                          | 501                    | 9690                  | 1951 | 65                    | 1934 | 262                          | Aug                             | 178                    | 8920                  | 1968 | 0.0                   | 1903 | 118                          |
| Sep                          | 539                    | 14200                 | 1938 | 62                    | 1940 | 379                          | Sep                             | 284                    | 7130                  | 1938 | 2.0                   | 1902 | 94                           |
| Oct                          | 667                    | 6180                  | 1984 | 66                    | 1954 |                              | Oct                             | 299                    | 3130                  | 1984 | 4.2                   | 1903 |                              |
| *Period of record 1902-2021  |                        |                       |      |                       |      |                              | *Period of record 1902-2021     |                        |                       |      |                       |      |                              |

# South Platte River at Kersey

Irrigation Year

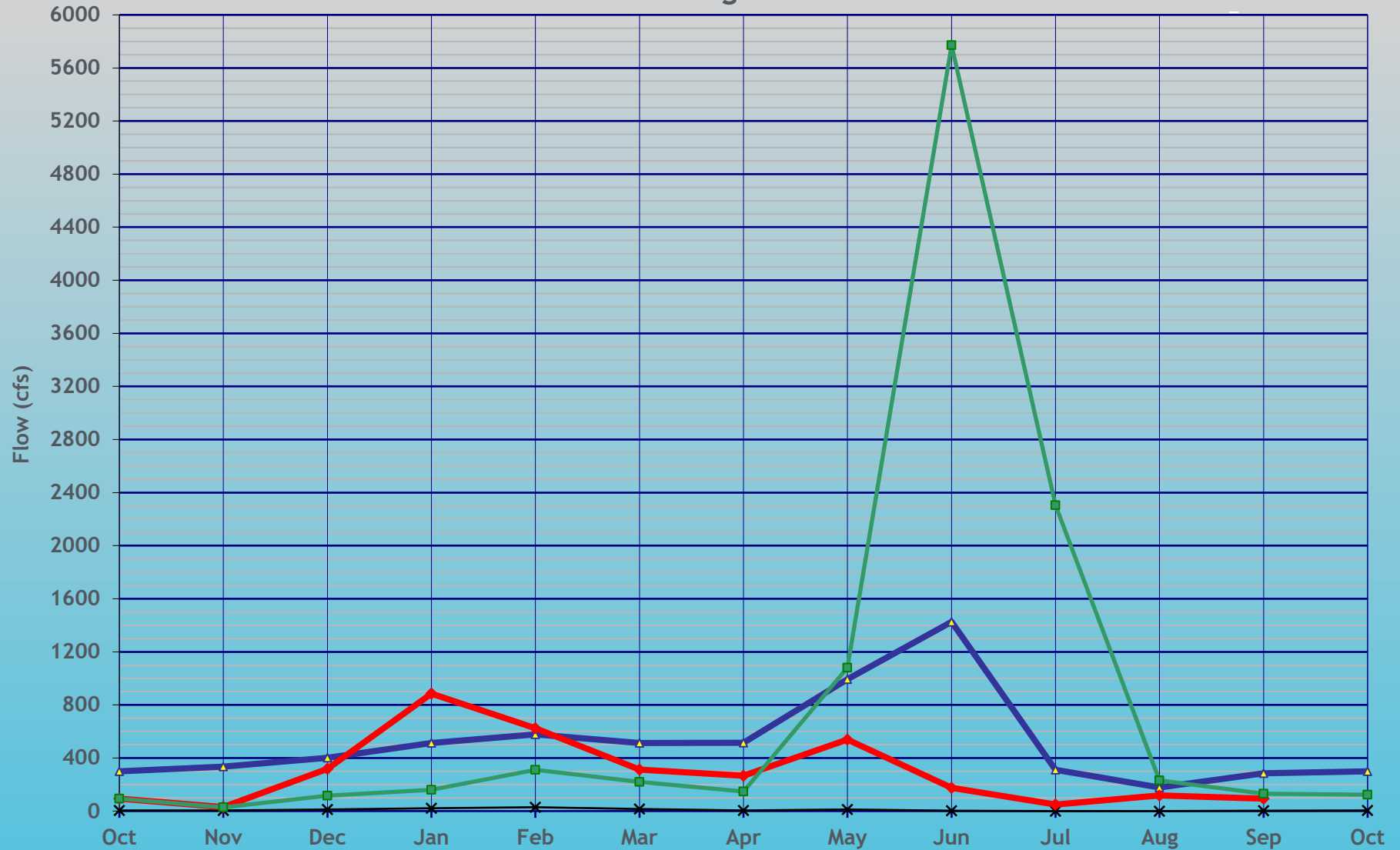


—▲— Historic\* Mean Flow    —×— Historic\* Min Flow    —◆— 2023-2024 Mean Flow    —□— 2022-2023 Mean Flow

\*1901-2021

# South Platte River at Julesburg

Irrigation Year



Historic\* Mean Flow    Historic\* Min Flow    2023-2024 Mean Flow    2022-2023 Mean Flow

\*1901-2021

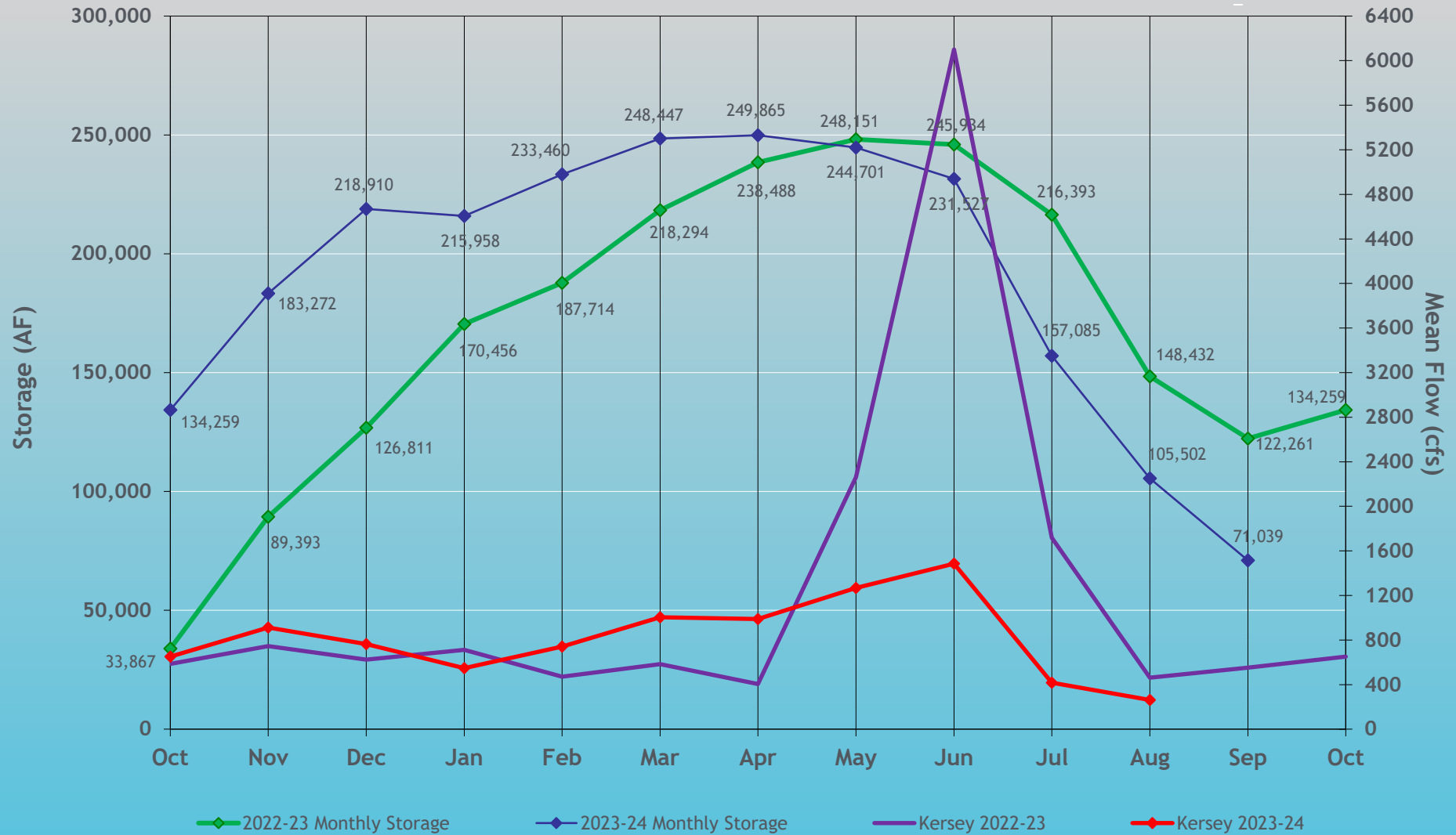






# Reservoir Storage below Kersey

Selected Reservoirs\*

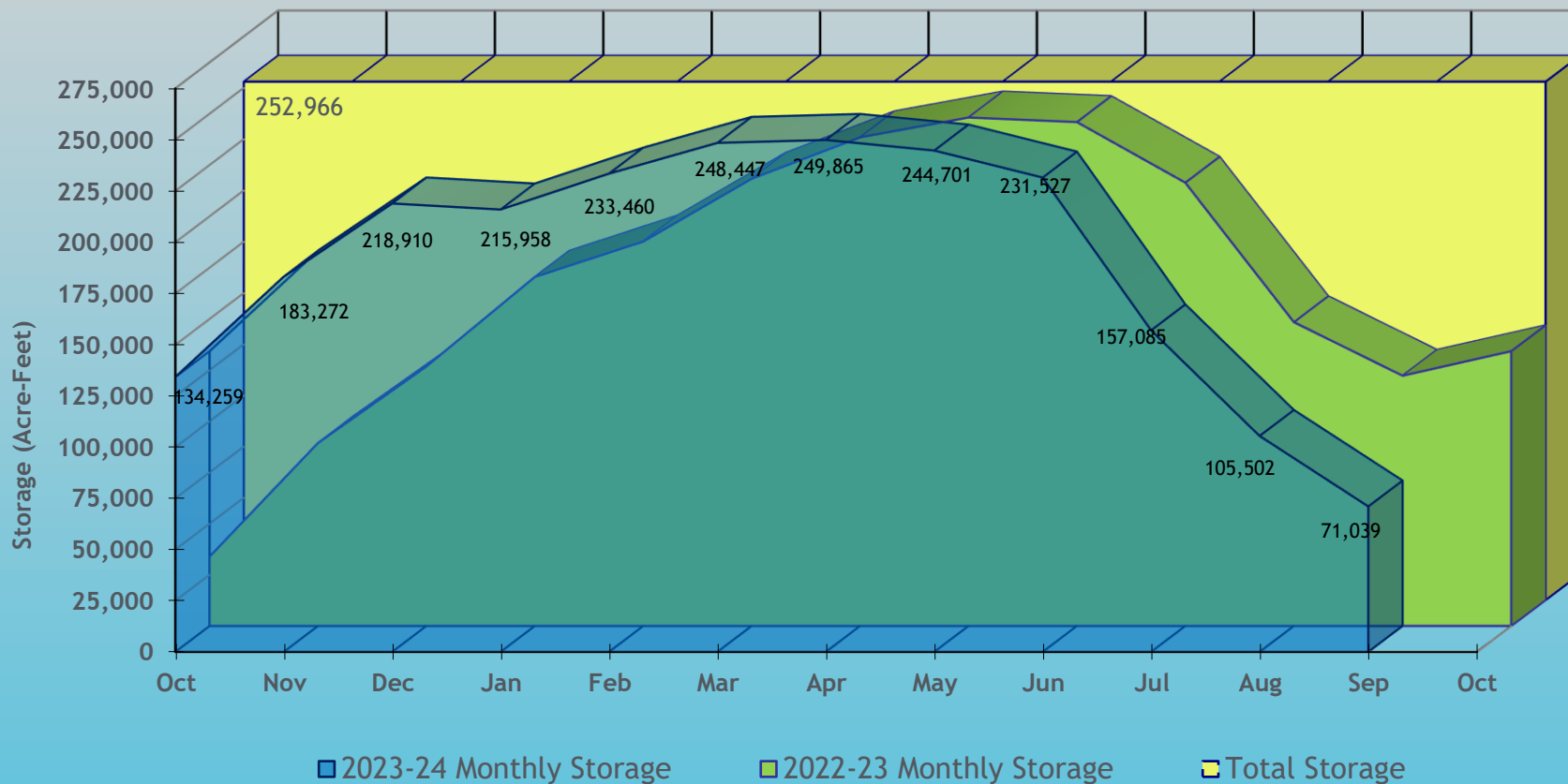


\*Empire, Riverside, Jackson, Prewitt, North Sterling, & Julesburg



COLORADO  
Department of  
Natural Resources

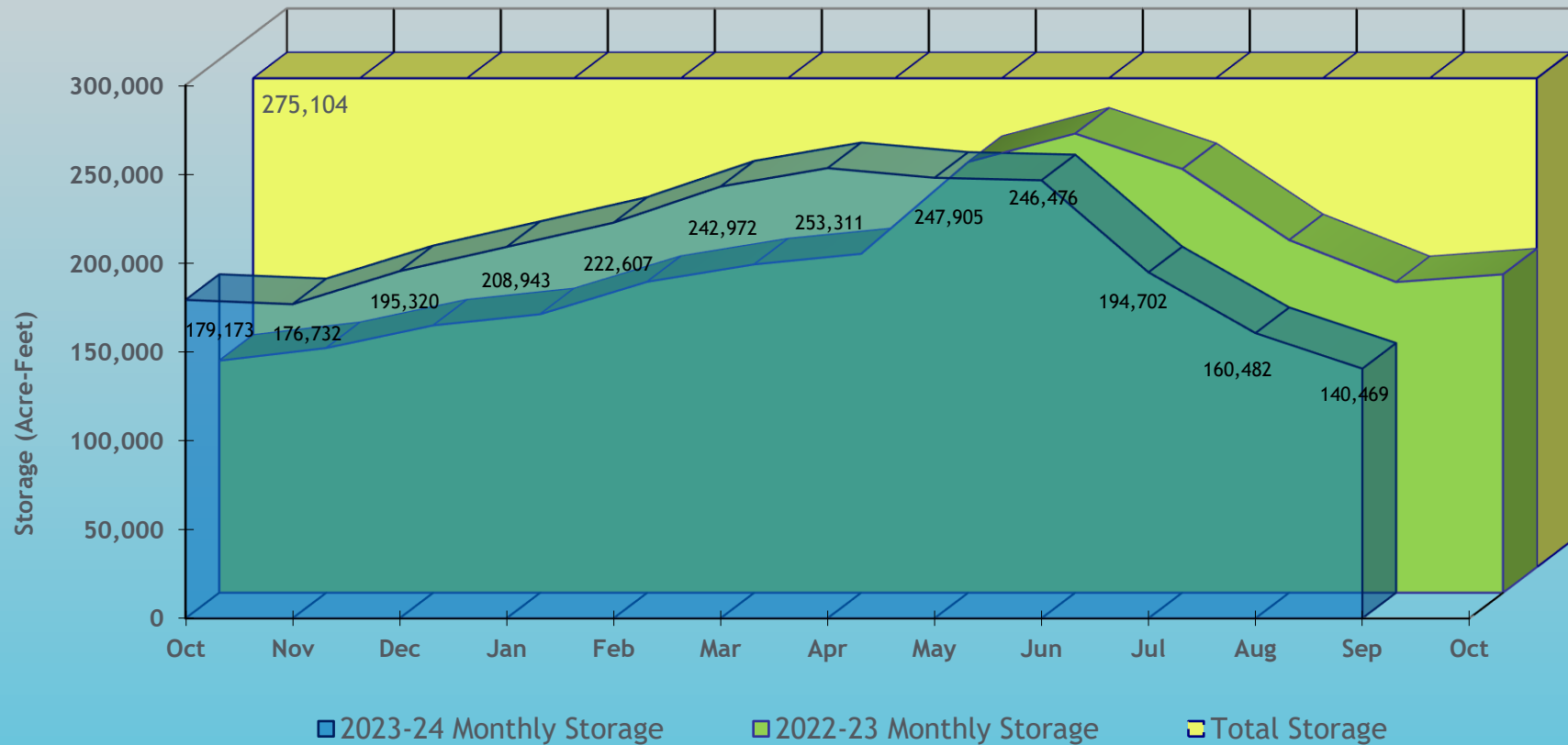
# South Platte Reservoir Storage below Kersey\*



\*Empire, Riverside, Jackson, Prewitt, North Sterling, & Julesburg



# South Platte Reservoir Storage above Kersey\*



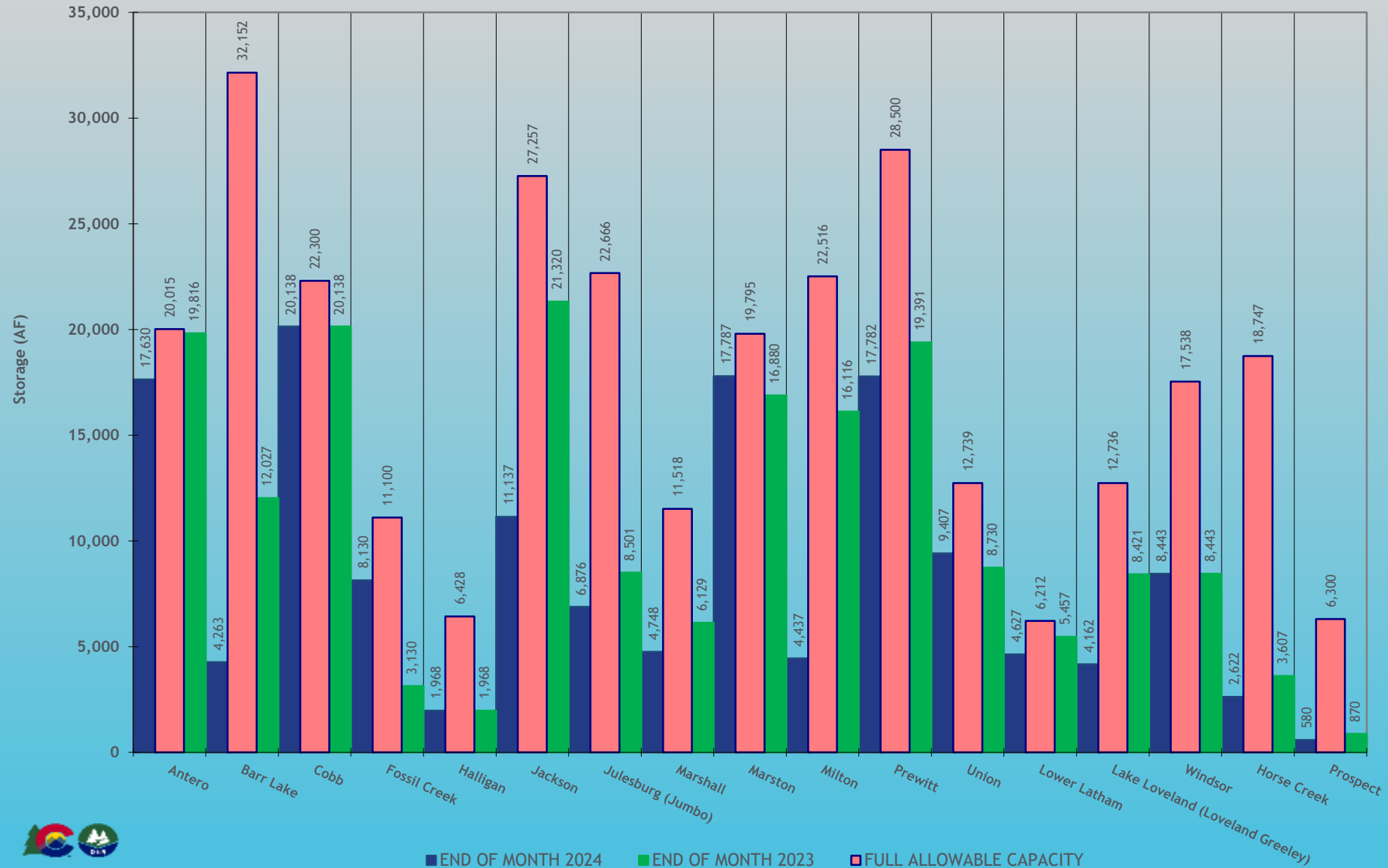
\*Barr, Cobb, Fossil Crk, Halligan, Marshall, Milton, Union, Standley, Lower Latham, Boyd, Loveland, Windsor, Horse Crk, & Prospect



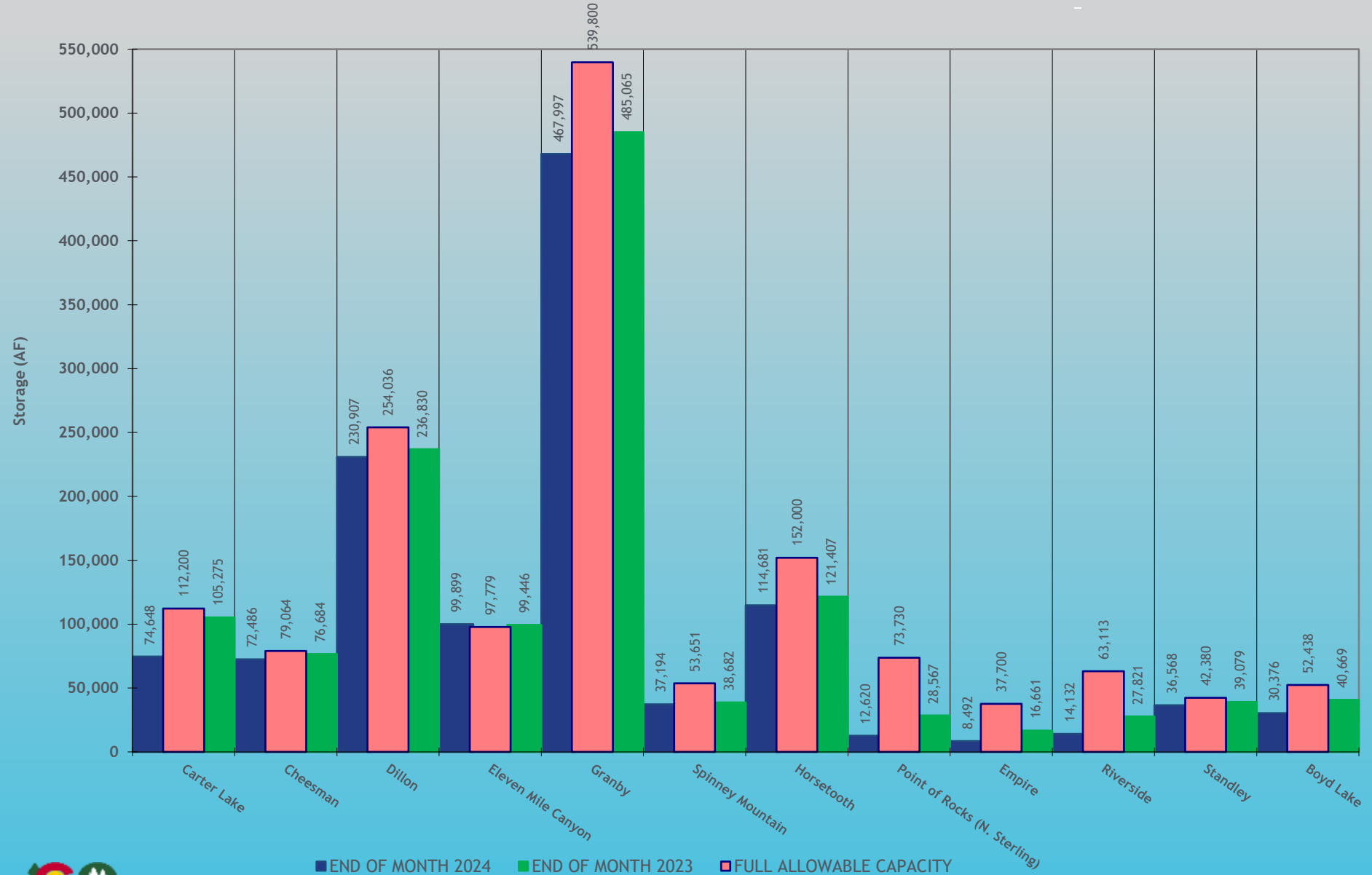




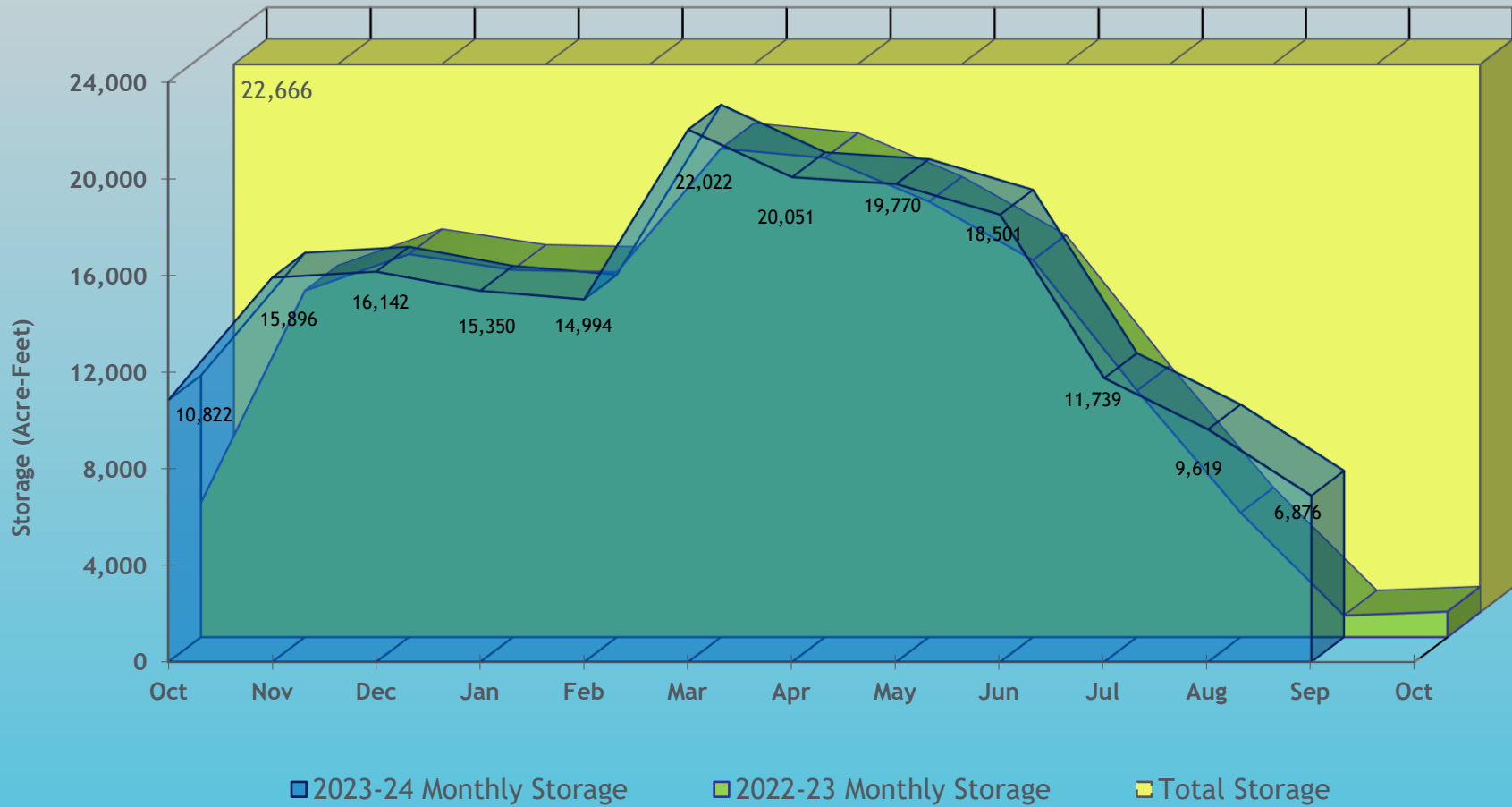
# September Reservoir Change in Storage IY2023 versus IY2024



# September Reservoir Change in Storage IY2023 versus IY2024



# Julesburg Reservoir (District 64 - Agricultural)



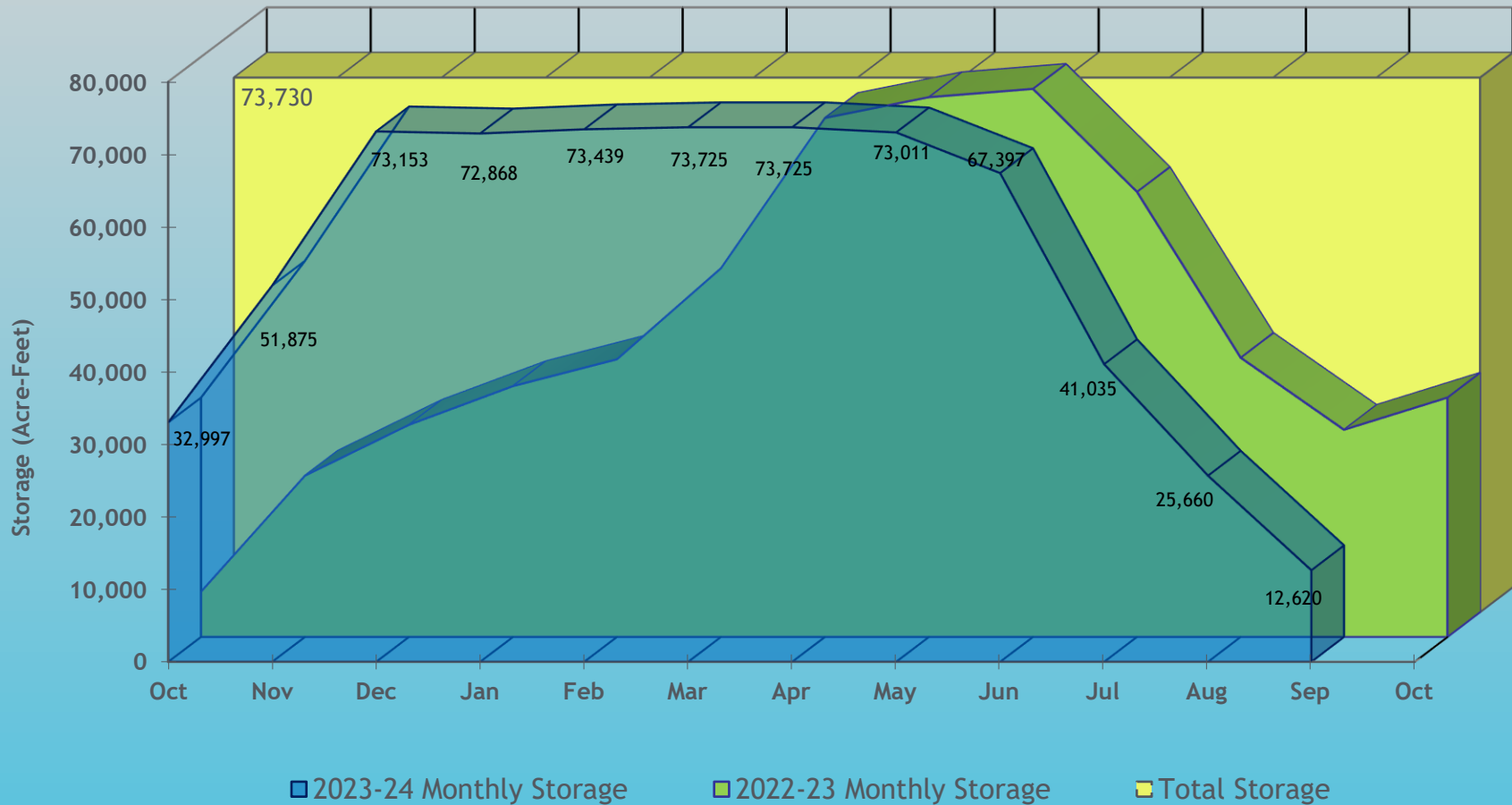
2023-24 Monthly Storage

2022-23 Monthly Storage

Total Storage



# North Sterling Reservoir (District 64 - Agricultural)

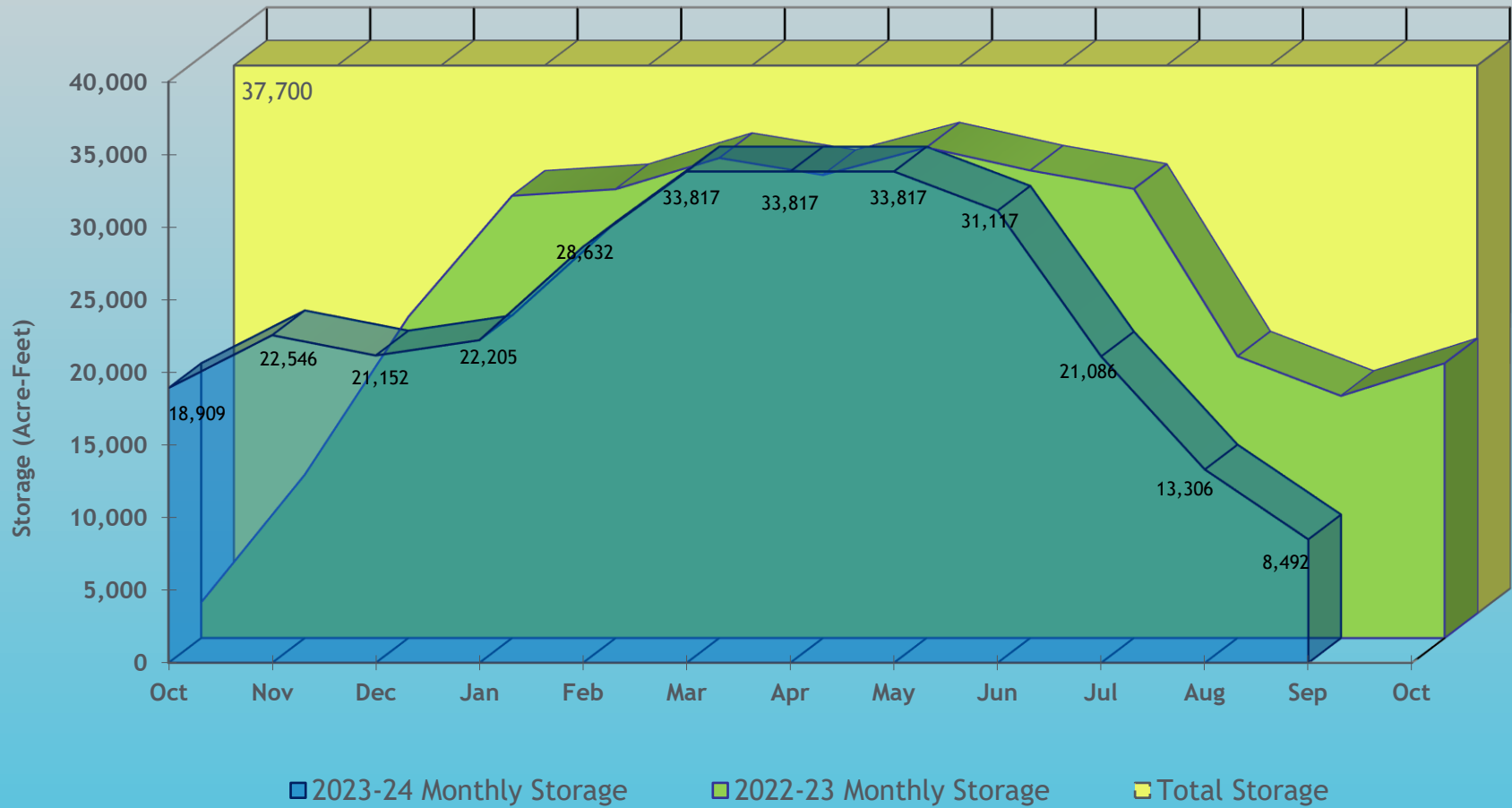


2023-24 Monthly Storage

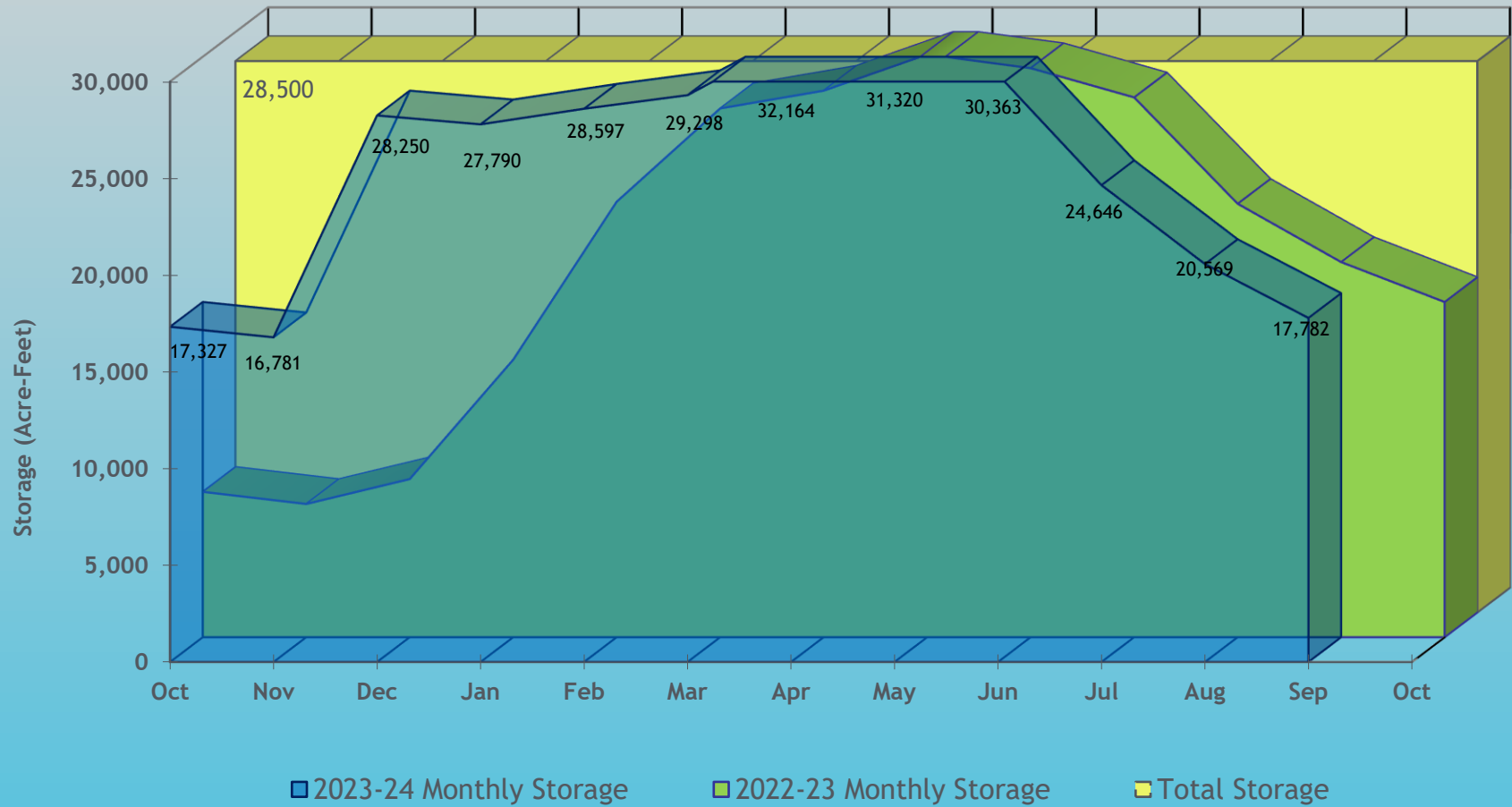
2022-23 Monthly Storage

Total Storage

# Empire Reservoir (District 1 - Agricultural)



# Prewitt Reservoir (District 64 - Agricultural)



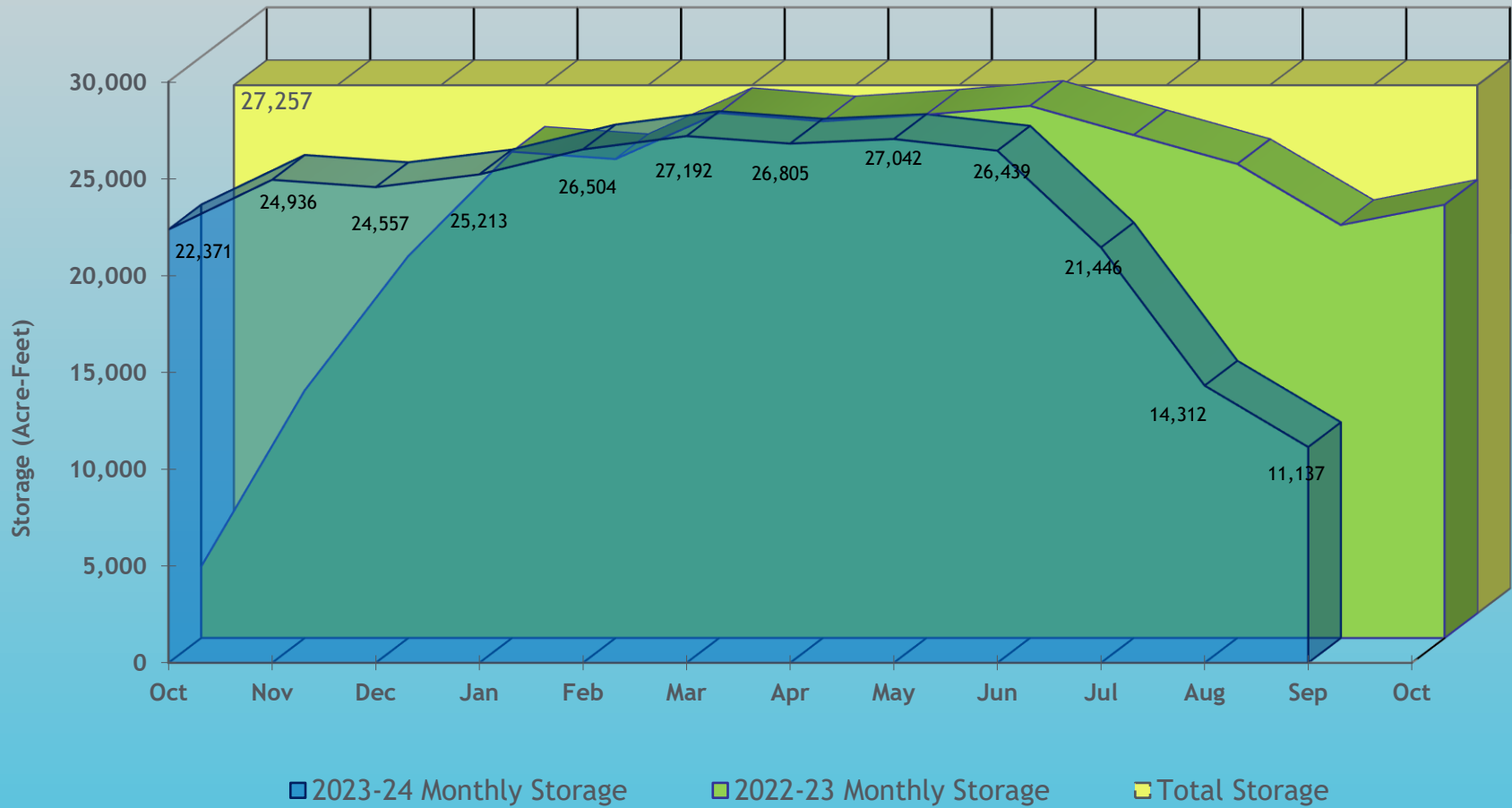
2023-24 Monthly Storage

2022-23 Monthly Storage

Total Storage



# Jackson Reservoir (District 1 - Agricultural)

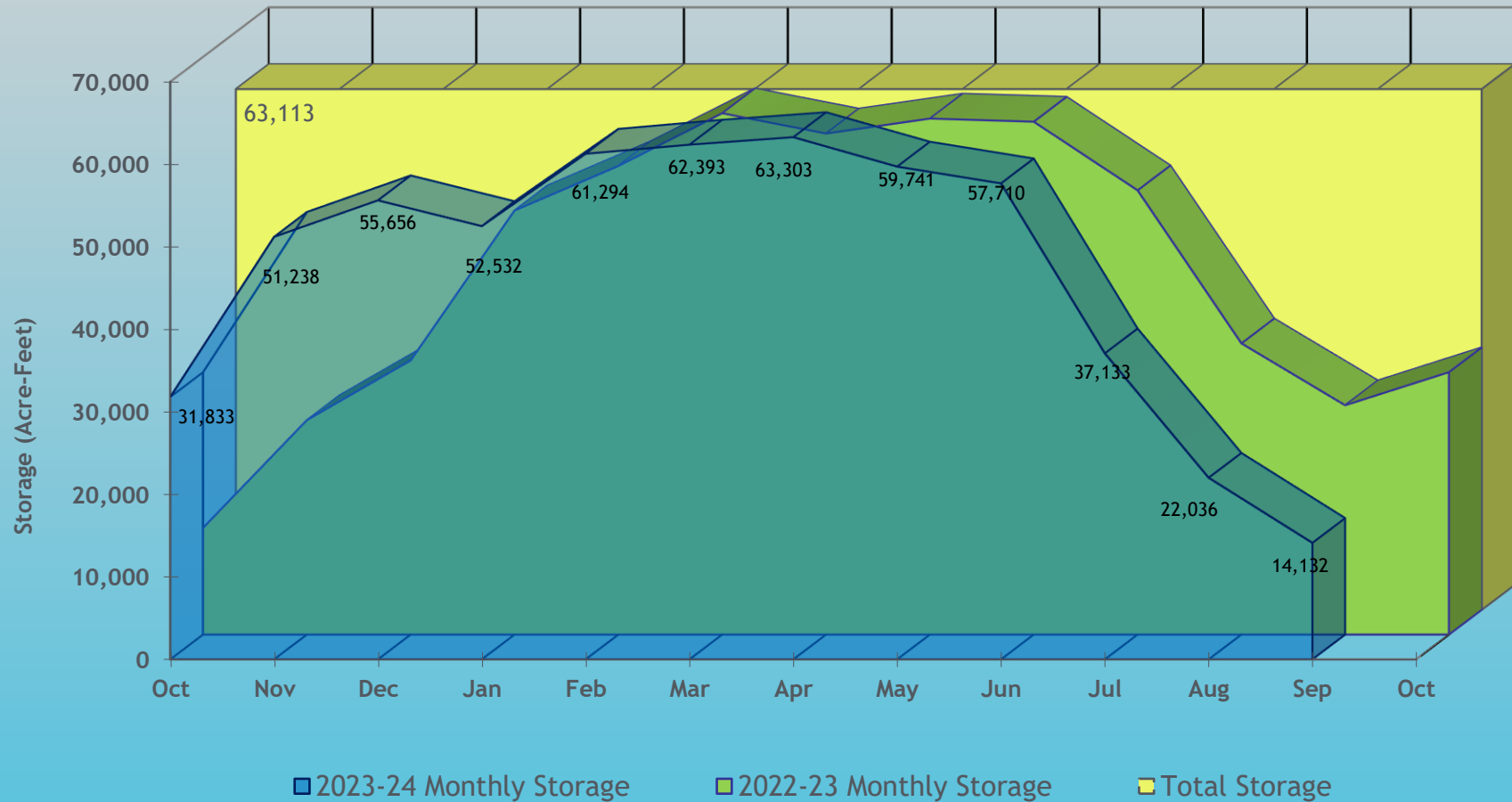


2023-24 Monthly Storage

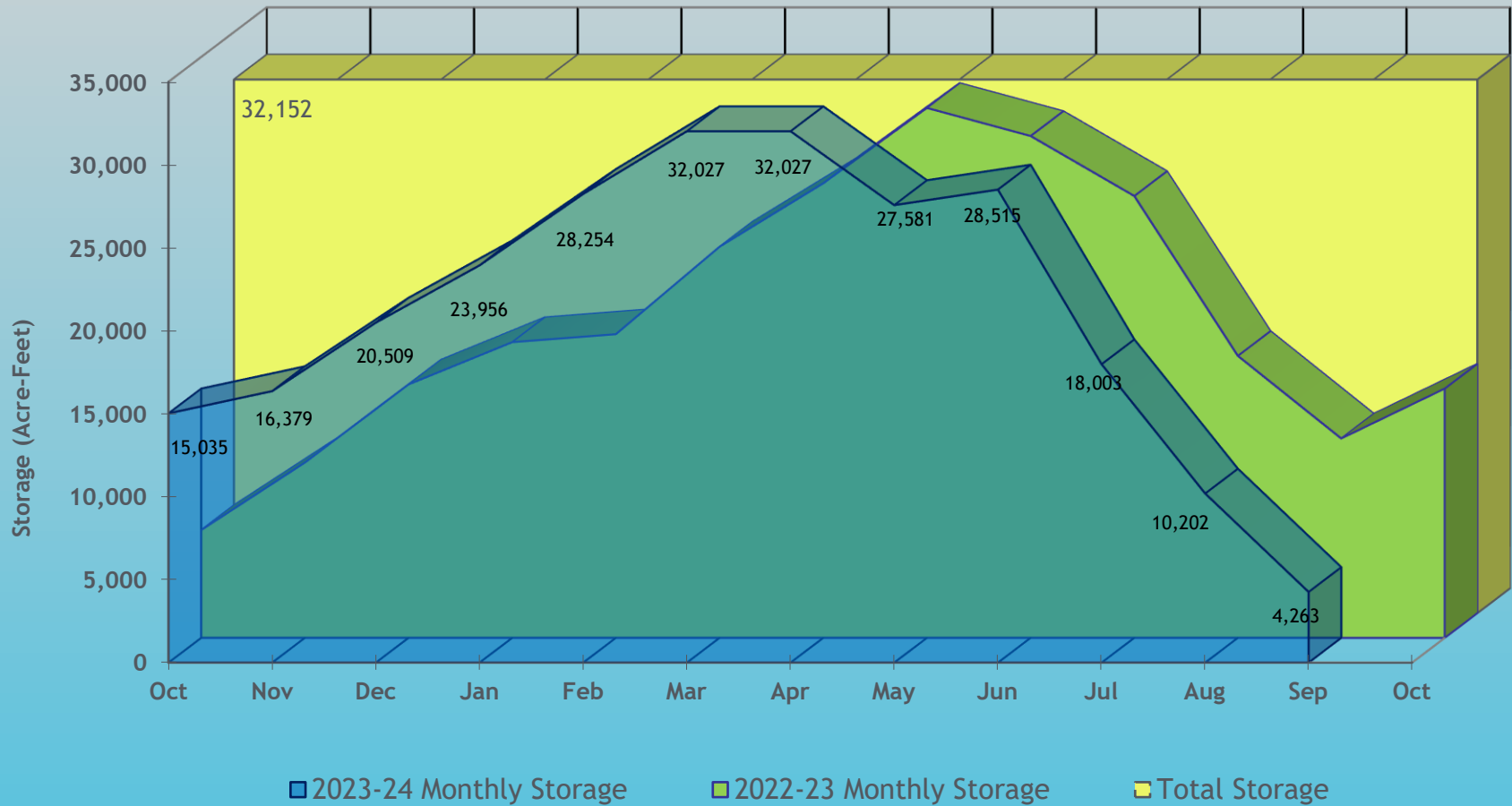
2022-23 Monthly Storage

Total Storage

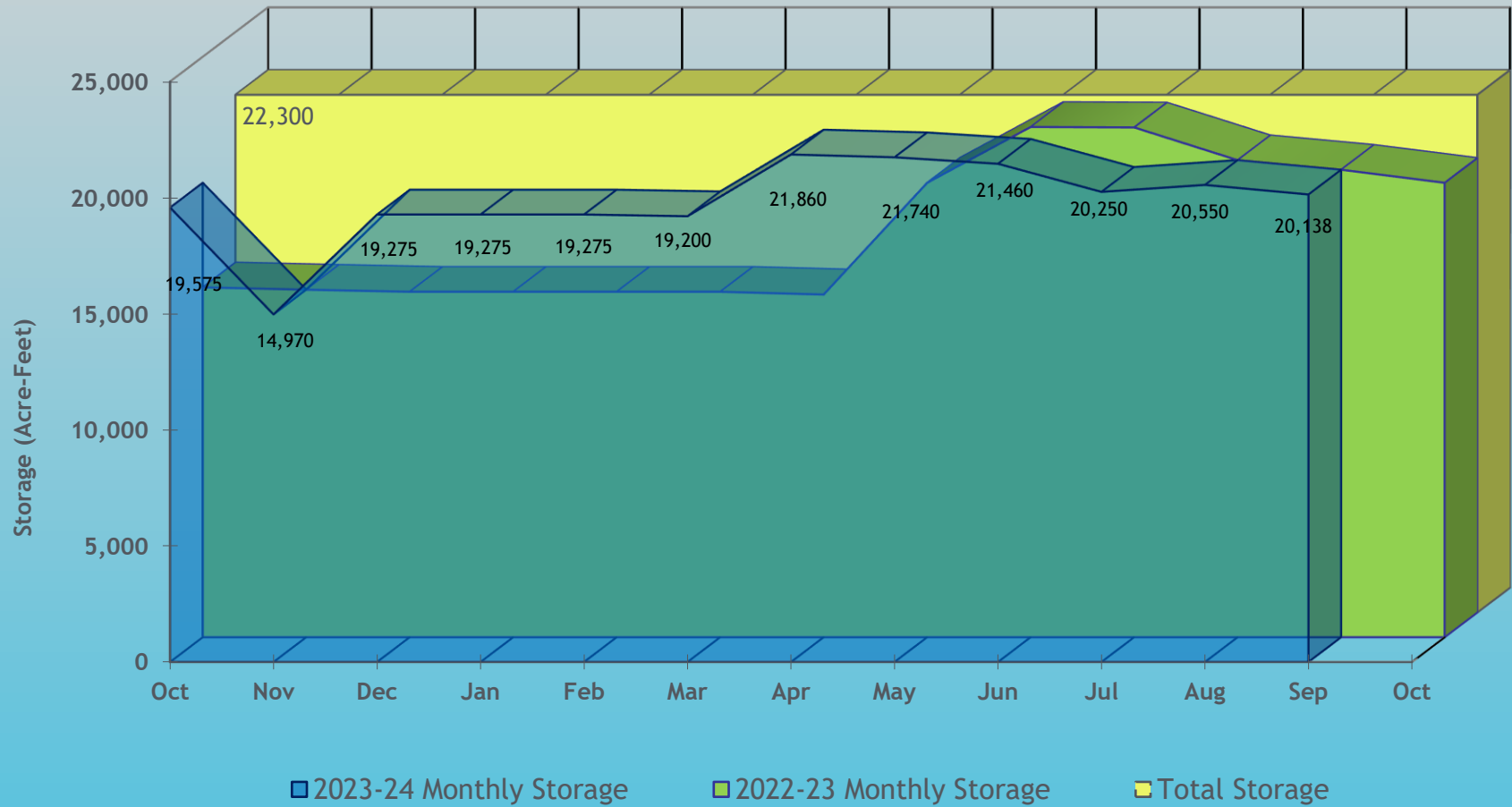
# Riverside Reservoir (District 1 - Agricultural)



# Barr Reservoir (District 2 - Agricultural)

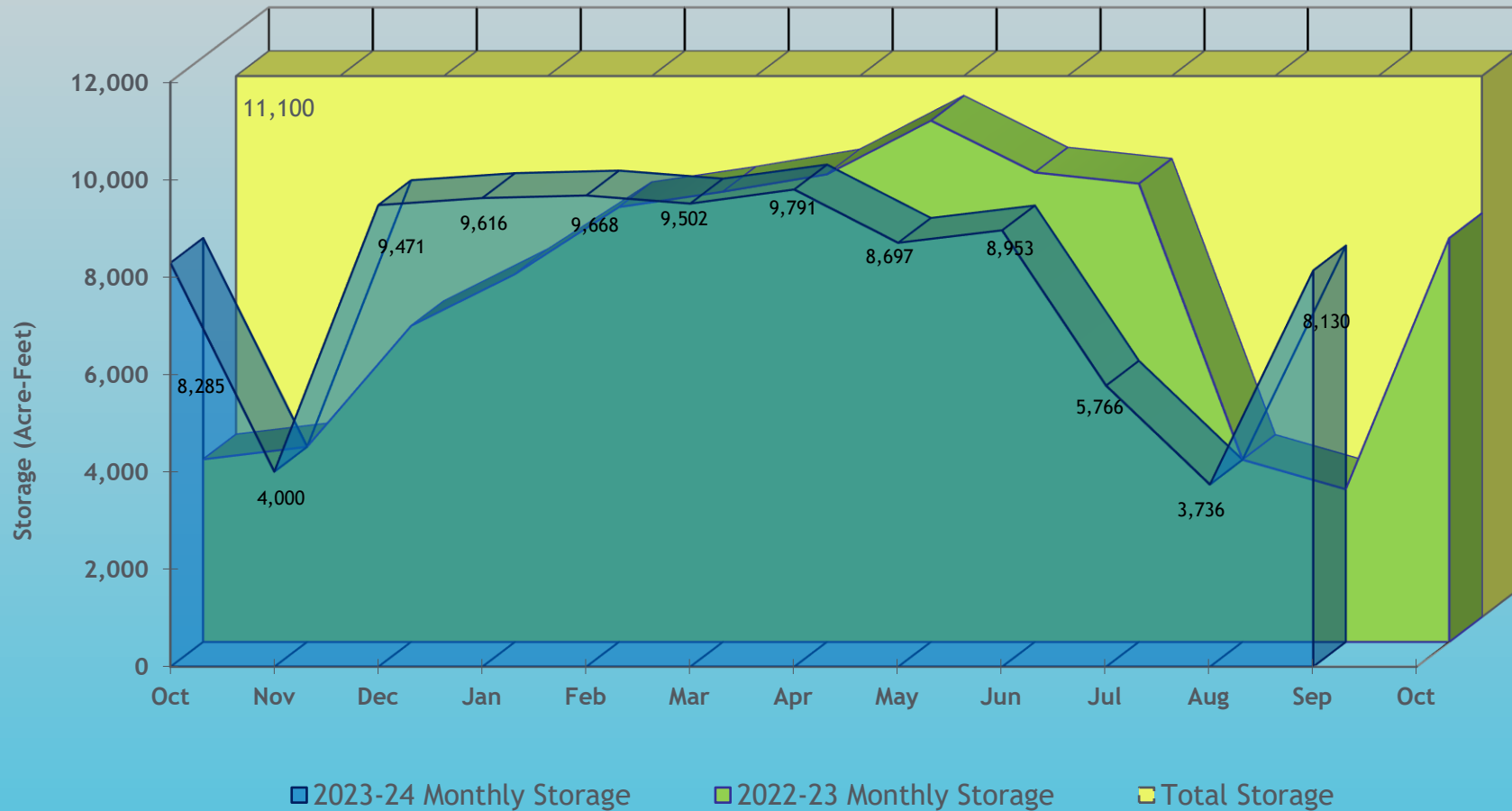


# Cobb Reservoir (District 3, Poudre River - Agricultural)

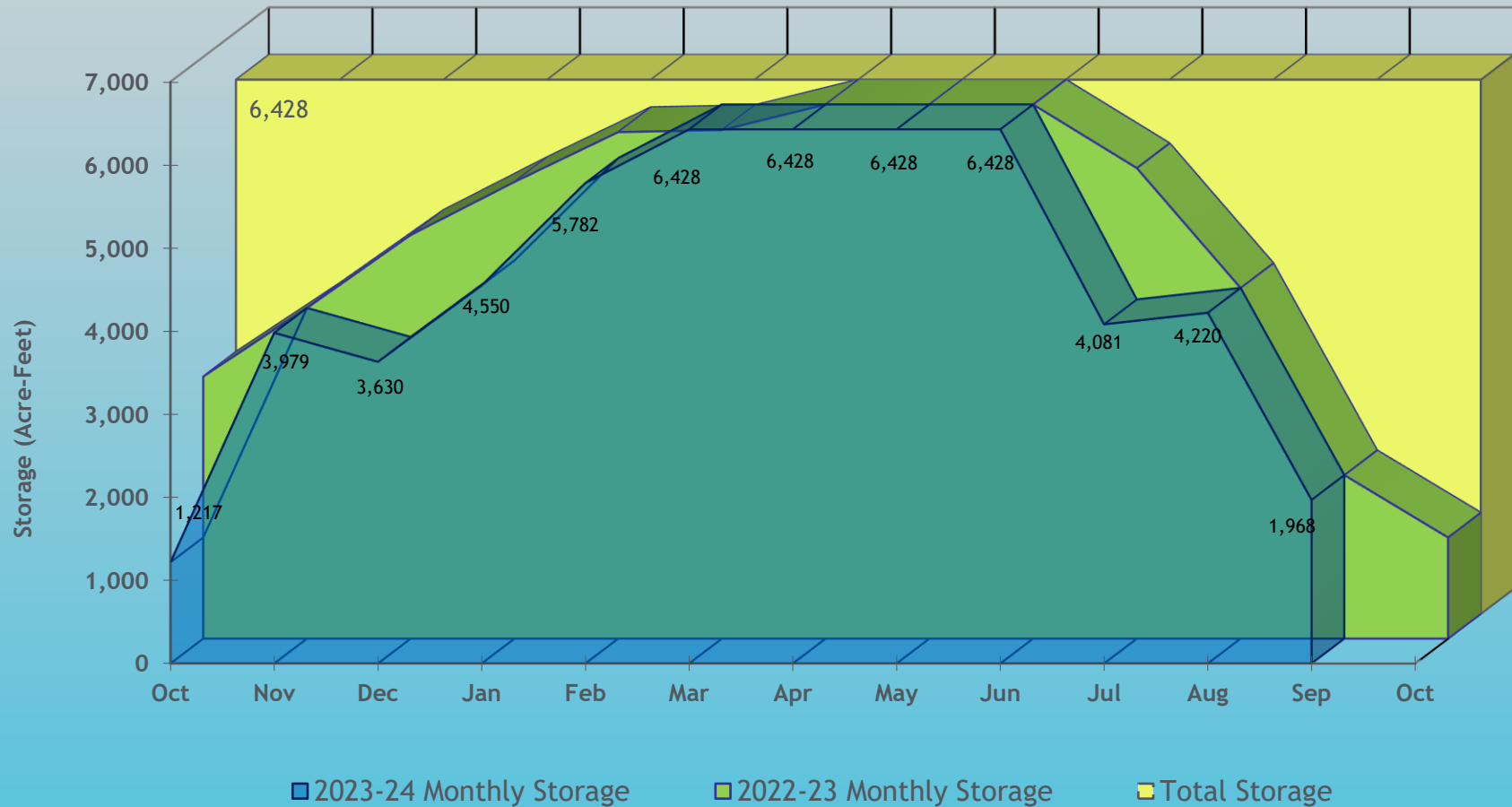




# Fossil Creek Reservoir (District 3, Poudre River - Agricultural)



# Halligan Reservoir (District 3, Poudre River - Agricultural)

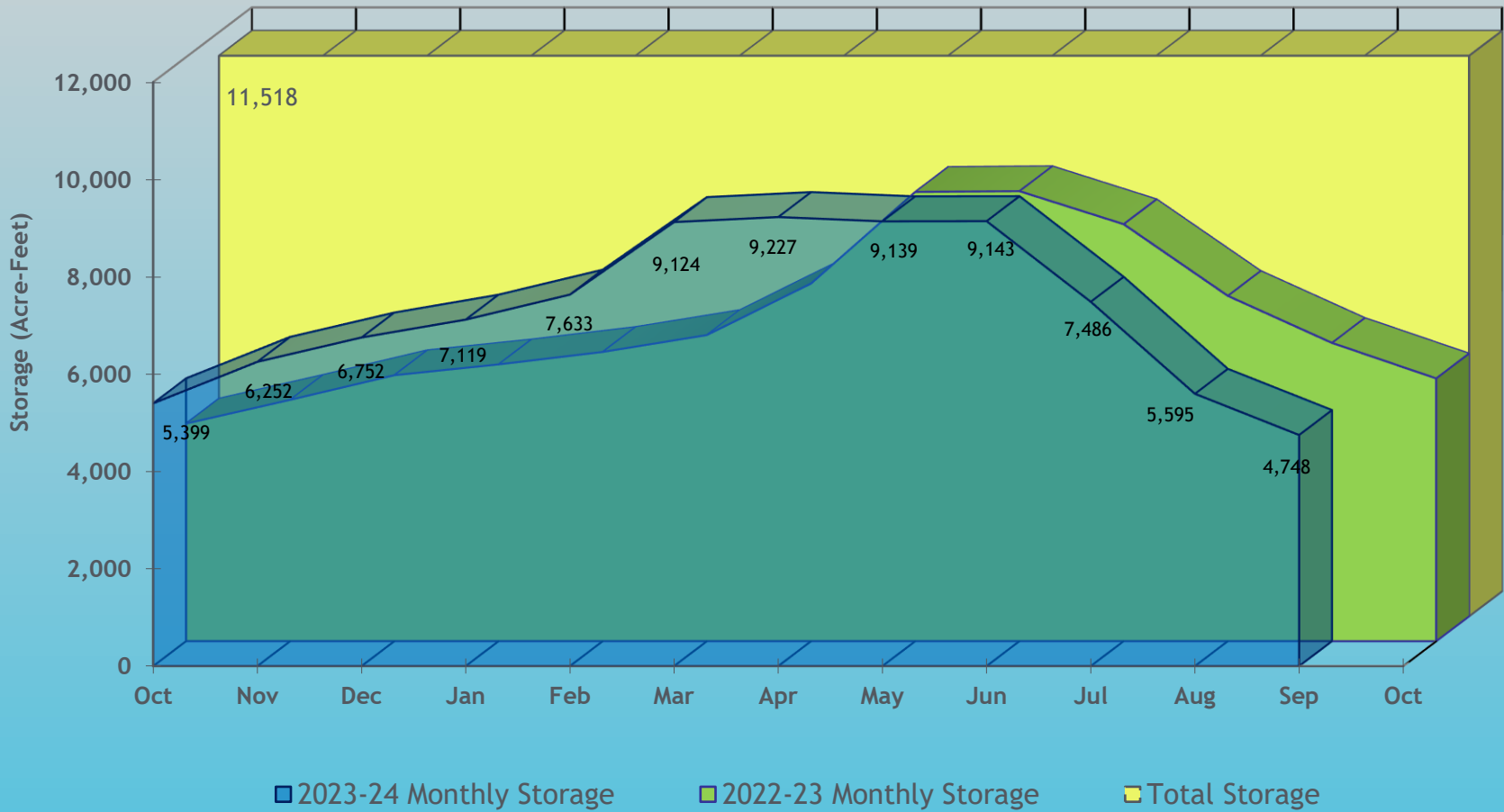


2023-24 Monthly Storage

2022-23 Monthly Storage

Total Storage

# Marshall Lake (District 6, Boulder Creek - Agricultural)

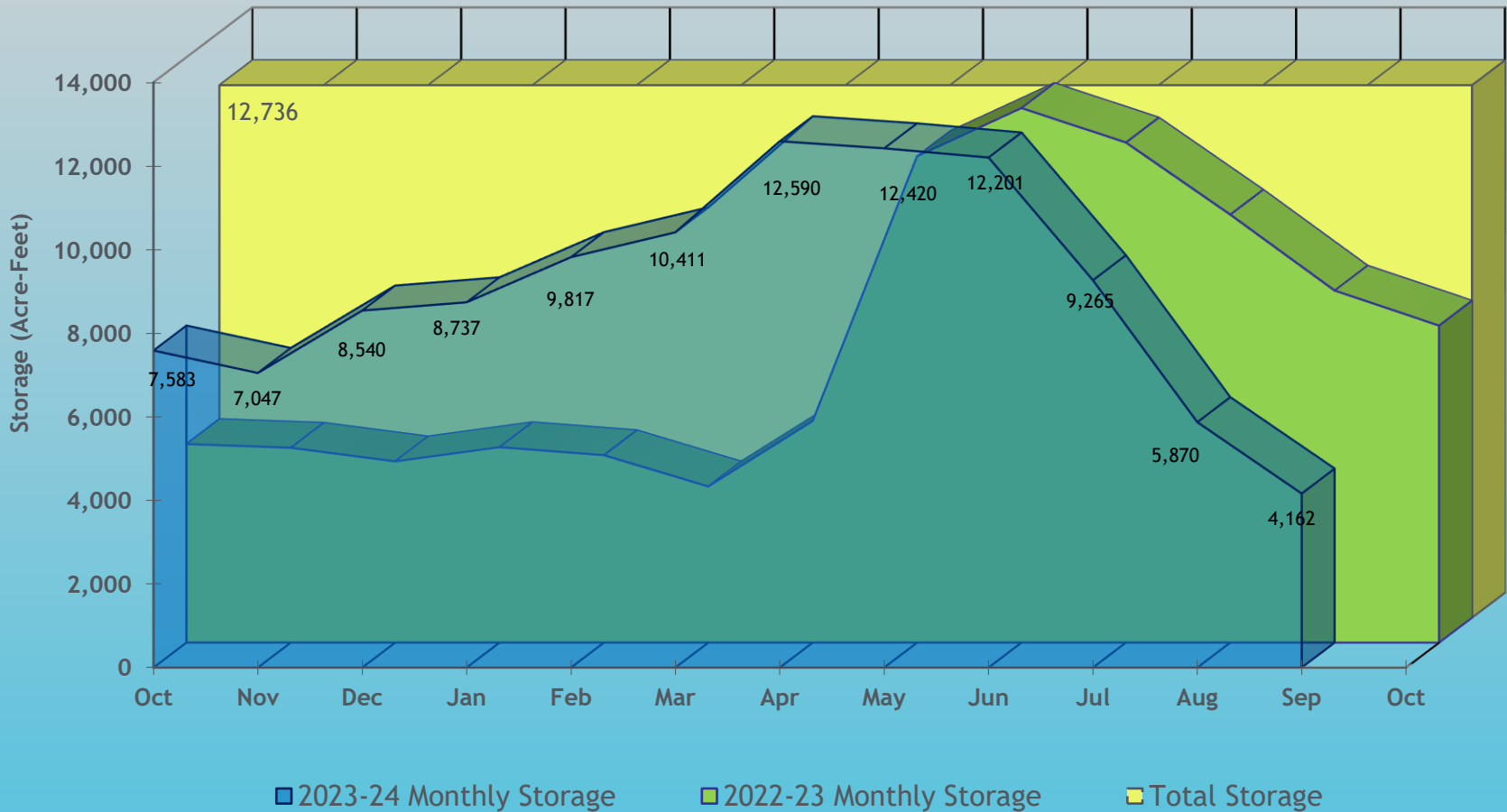


2023-24 Monthly Storage

2022-23 Monthly Storage

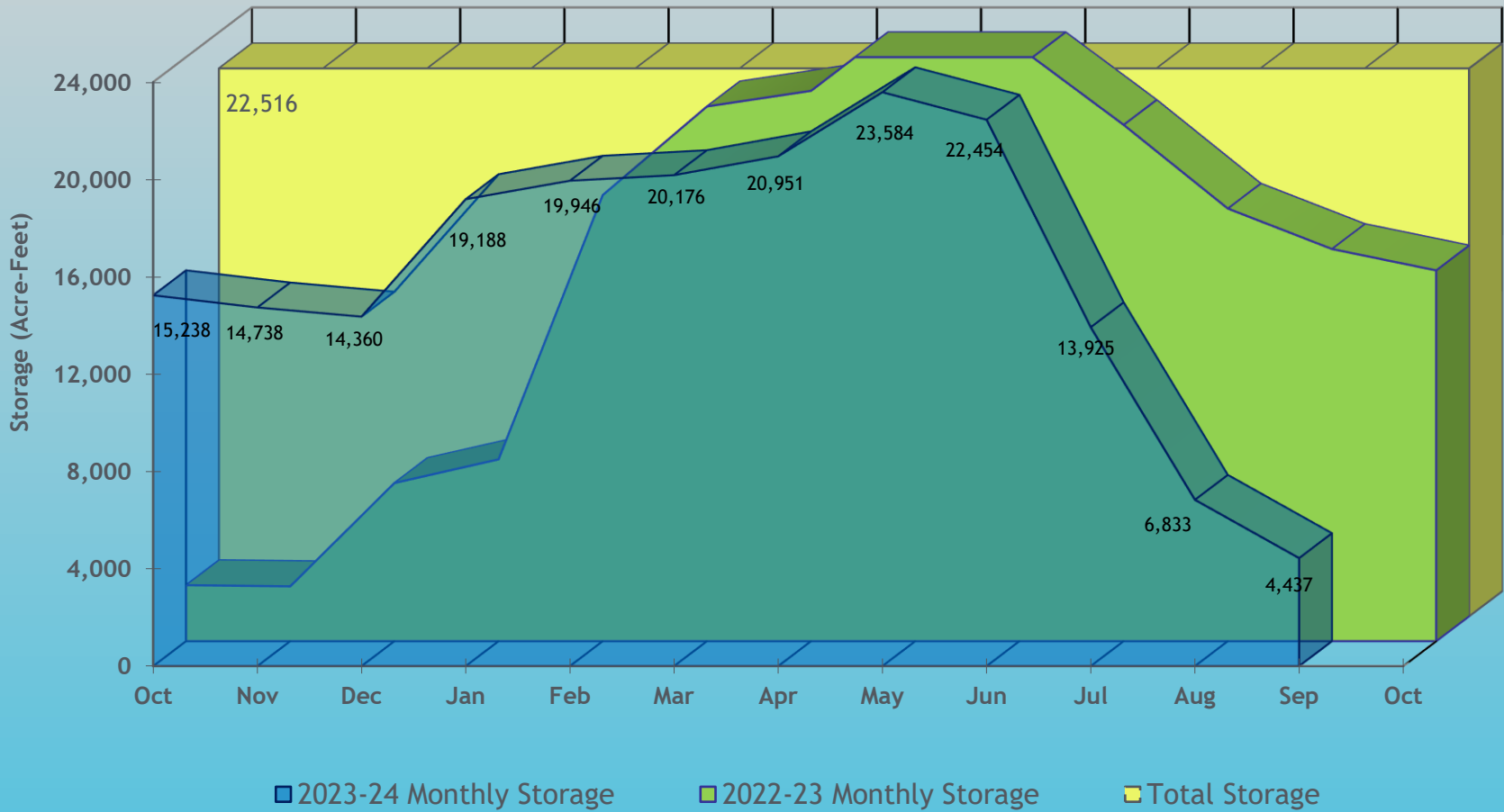
Total Storage

# Loveland Greeley Reservoir (District 4, Big Thompson River - Agricultural)

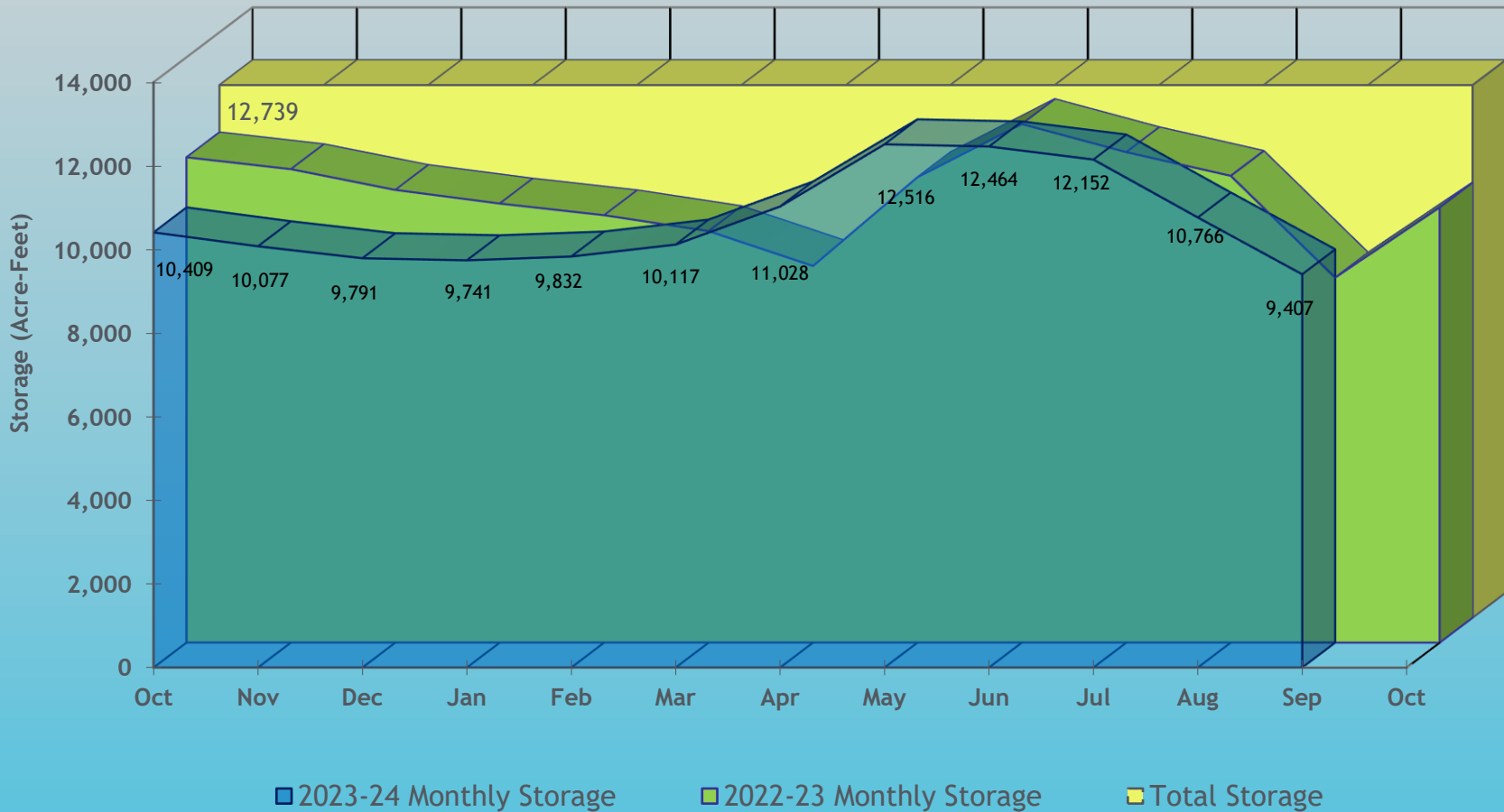




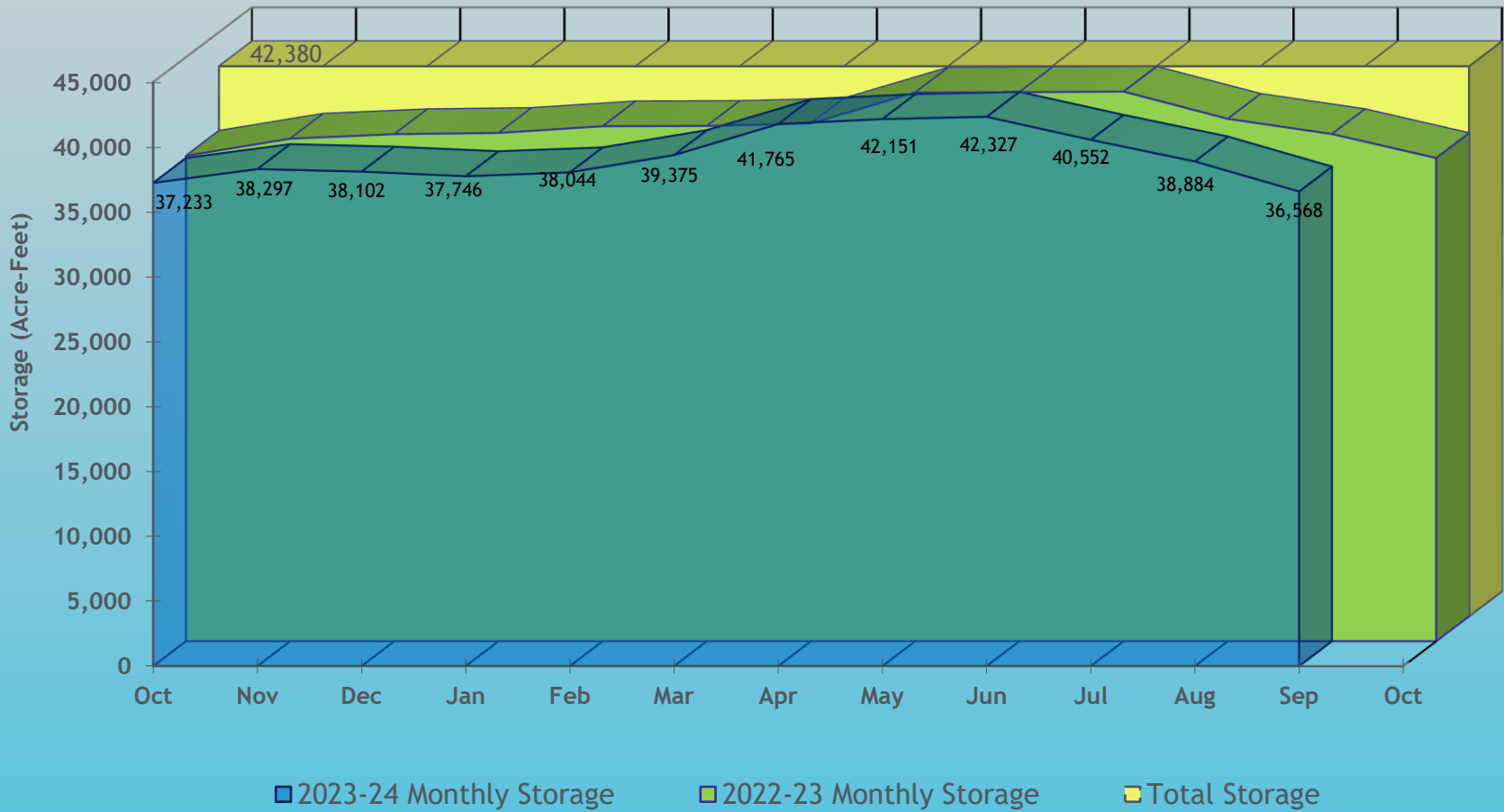
# Milton Reservoir (District 2 - Agricultural)



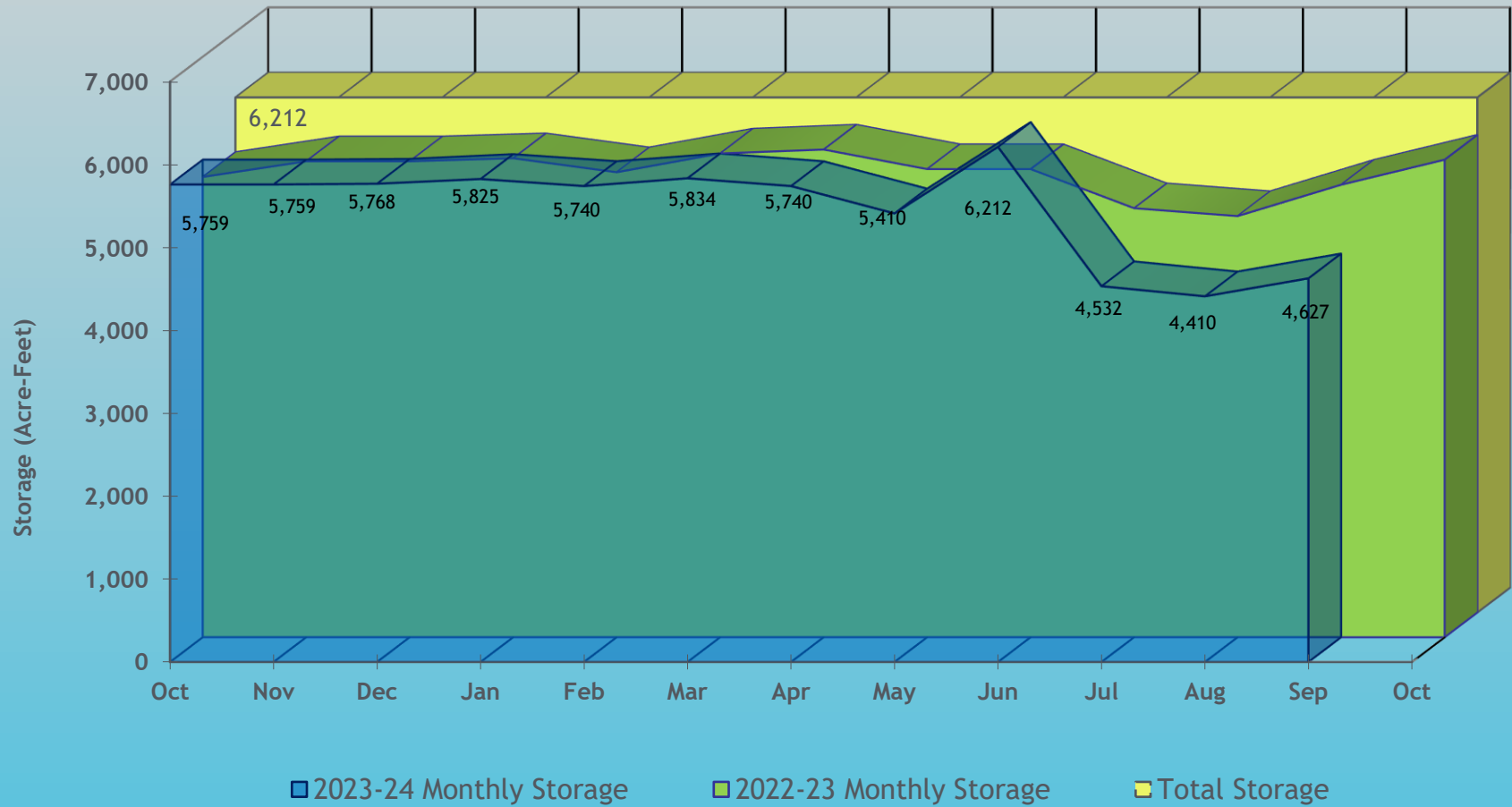
# Union Reservoir (District 5, St. Vrain Creek - Agricultural)



# Standley Lake (Agricultural)

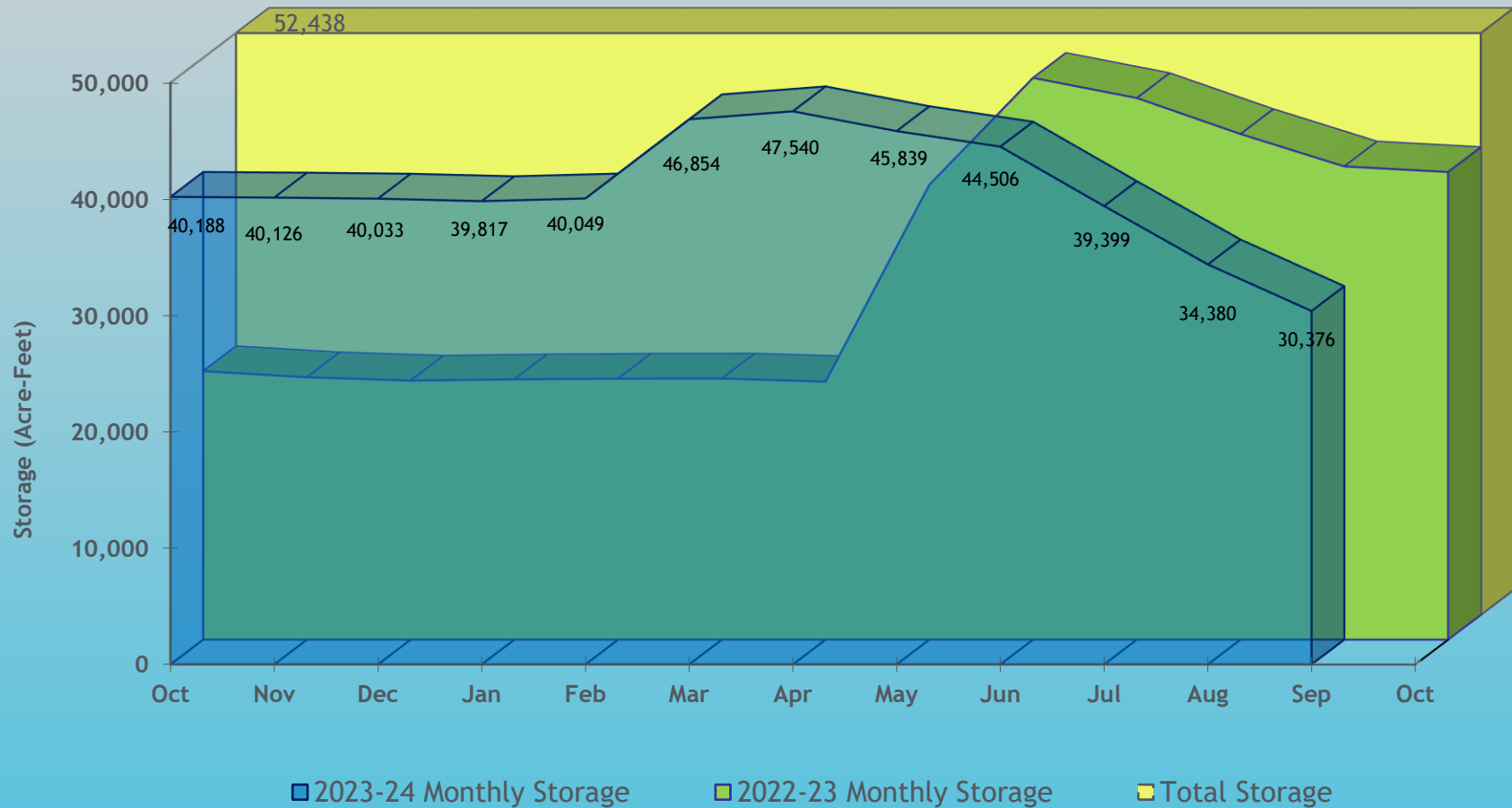


# Lower Latham Reservoir (District 2 - Agricultural)



# Boyd Lake

## (District 4, Big Thompson River - Agricultural)



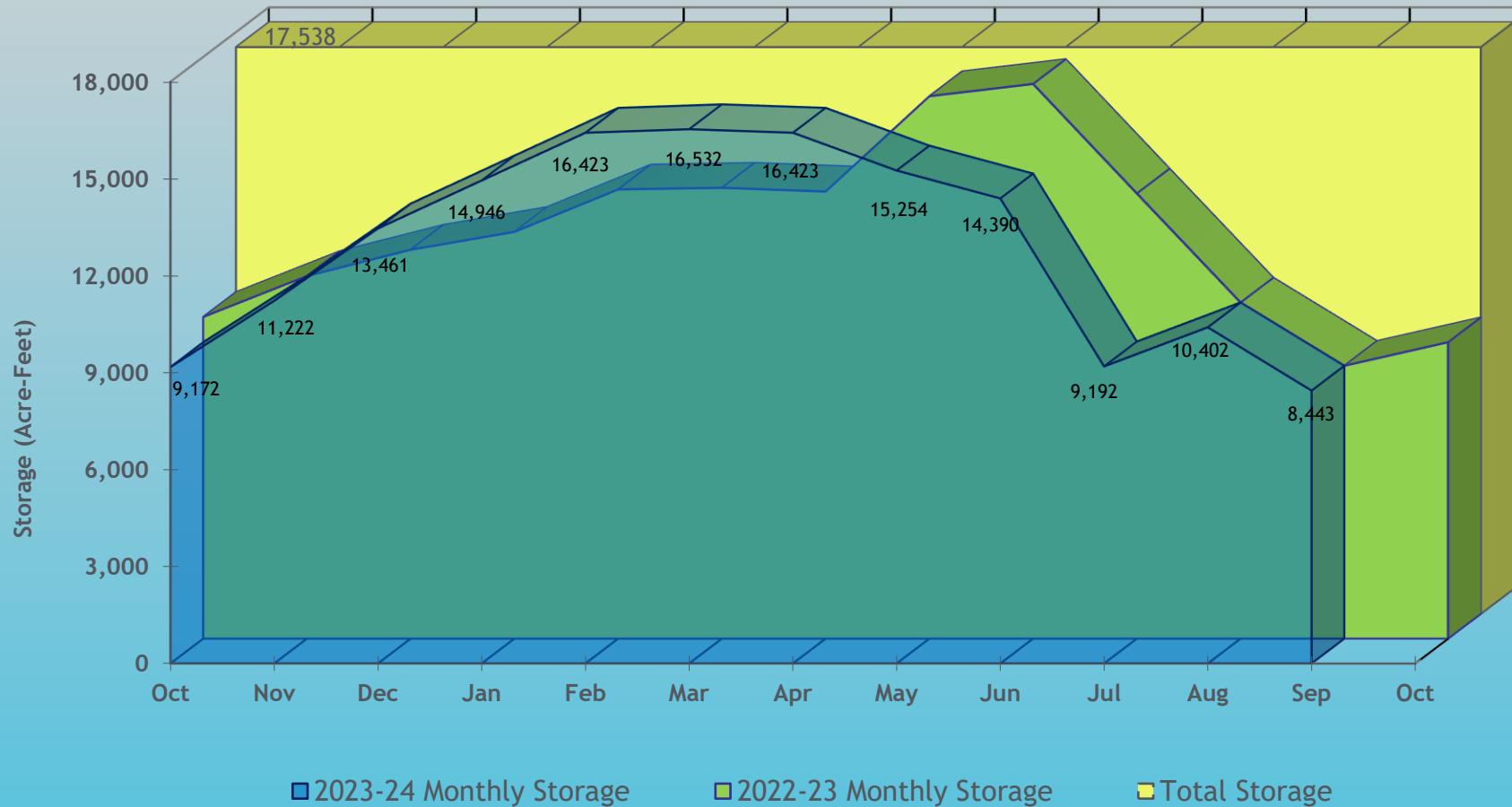
2023-24 Monthly Storage

2022-23 Monthly Storage

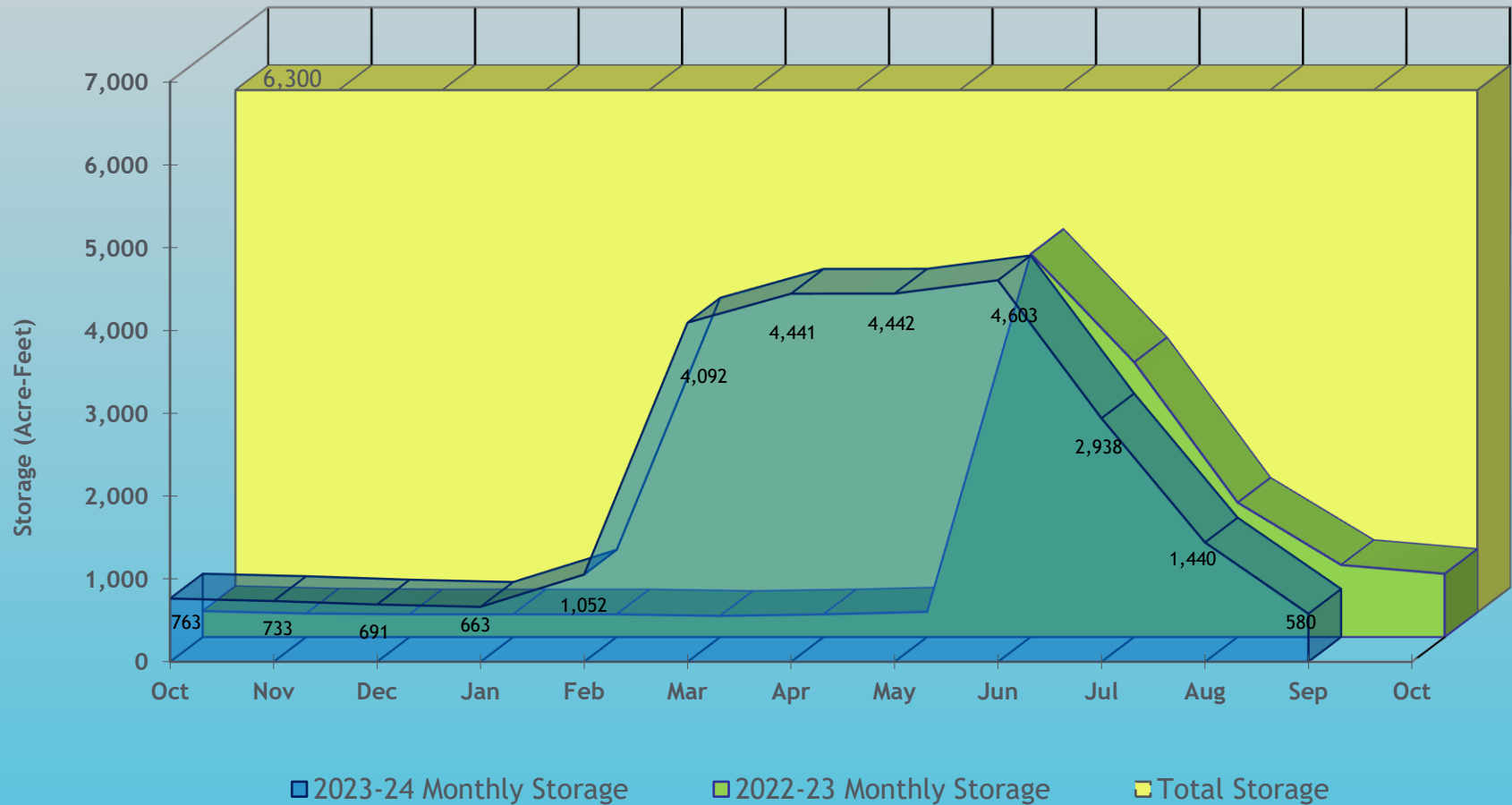
Total Storage



# Windsor Reservoir (District 3, Poudre River - Agricultural)



# Prospect Reservoir (District 1 - Agricultural)

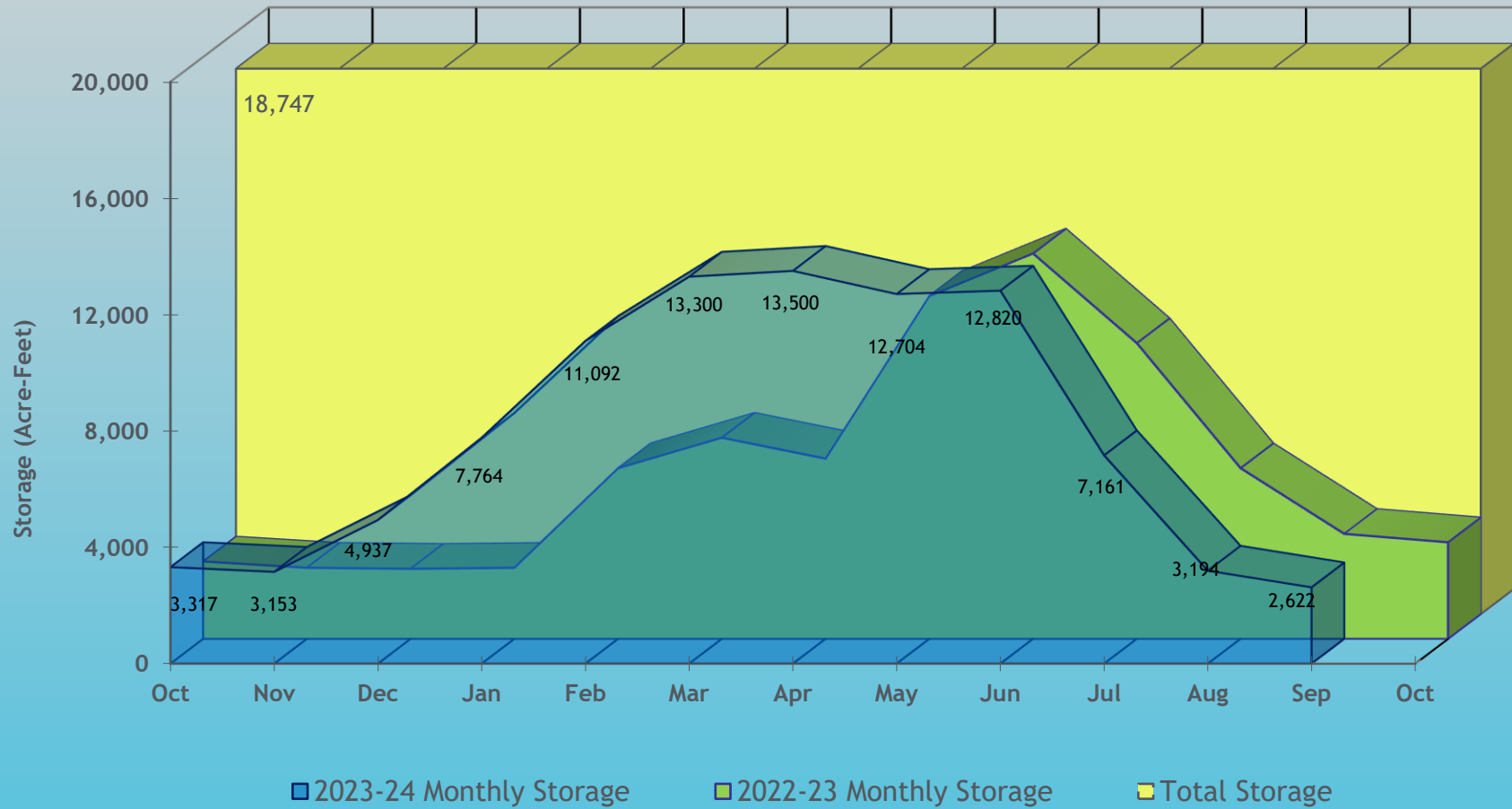


2023-24 Monthly Storage

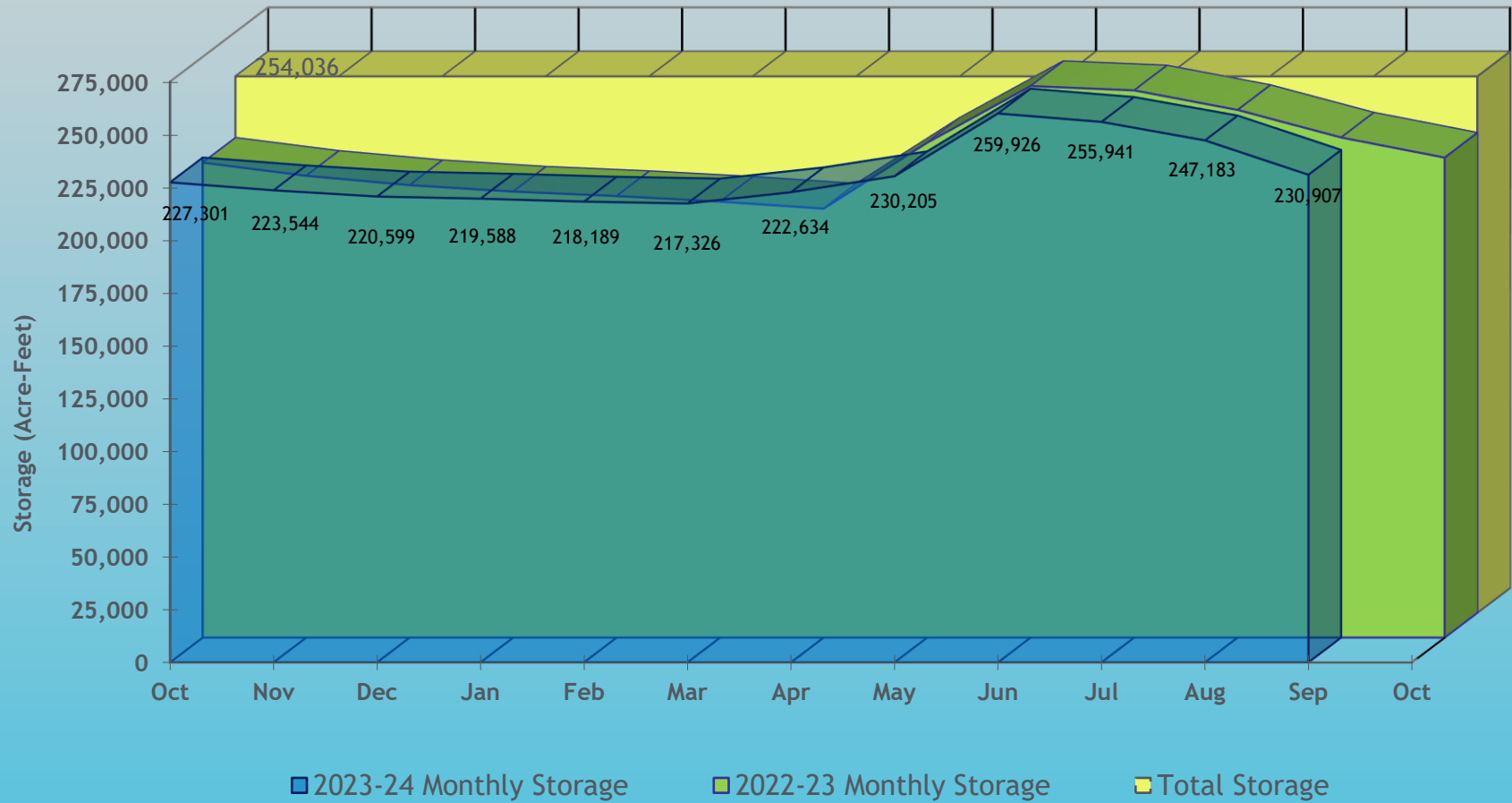
2022-23 Monthly Storage

Total Storage

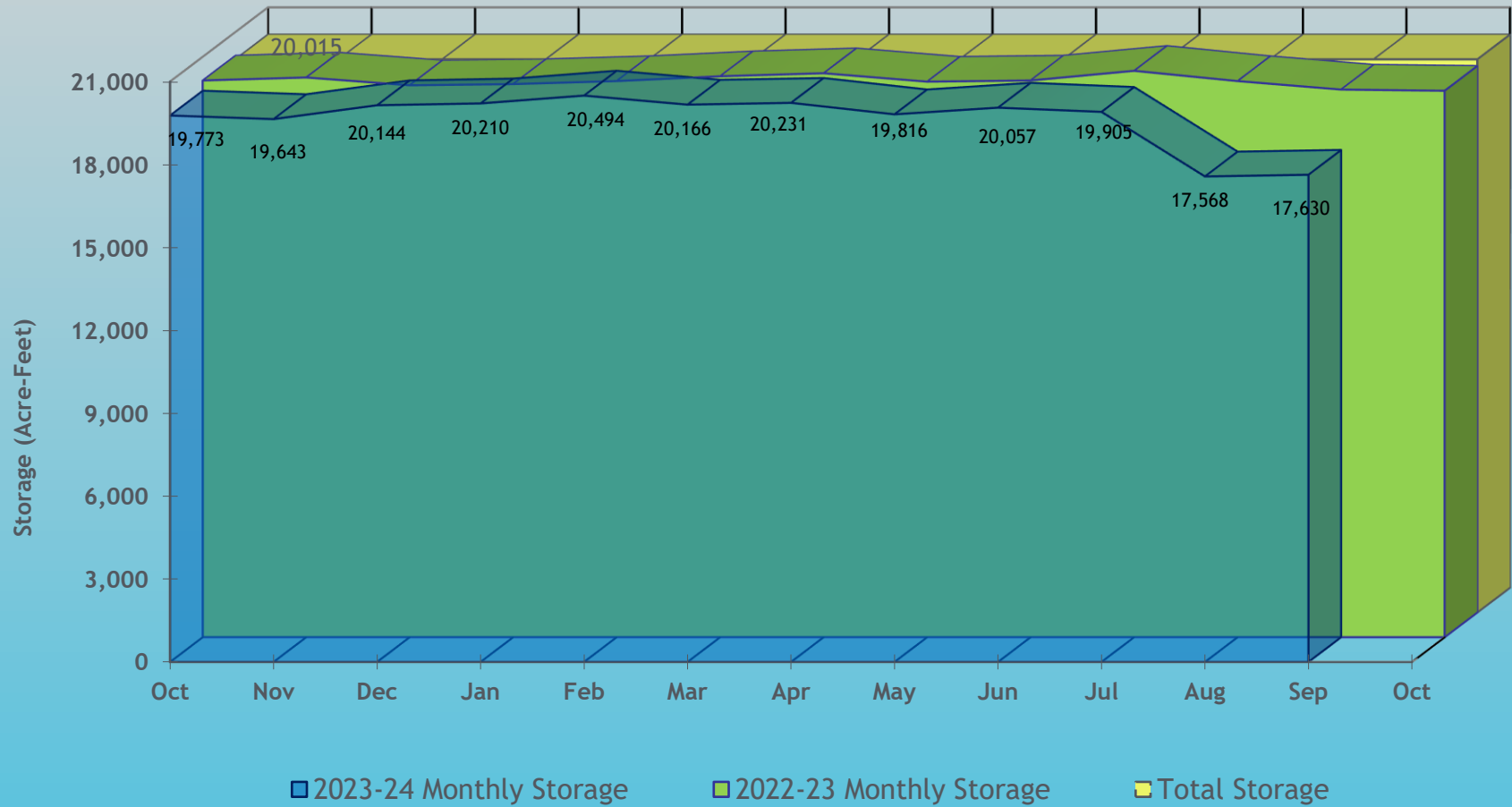
# Horse Creek Reservoir (District 1 - Agricultural)



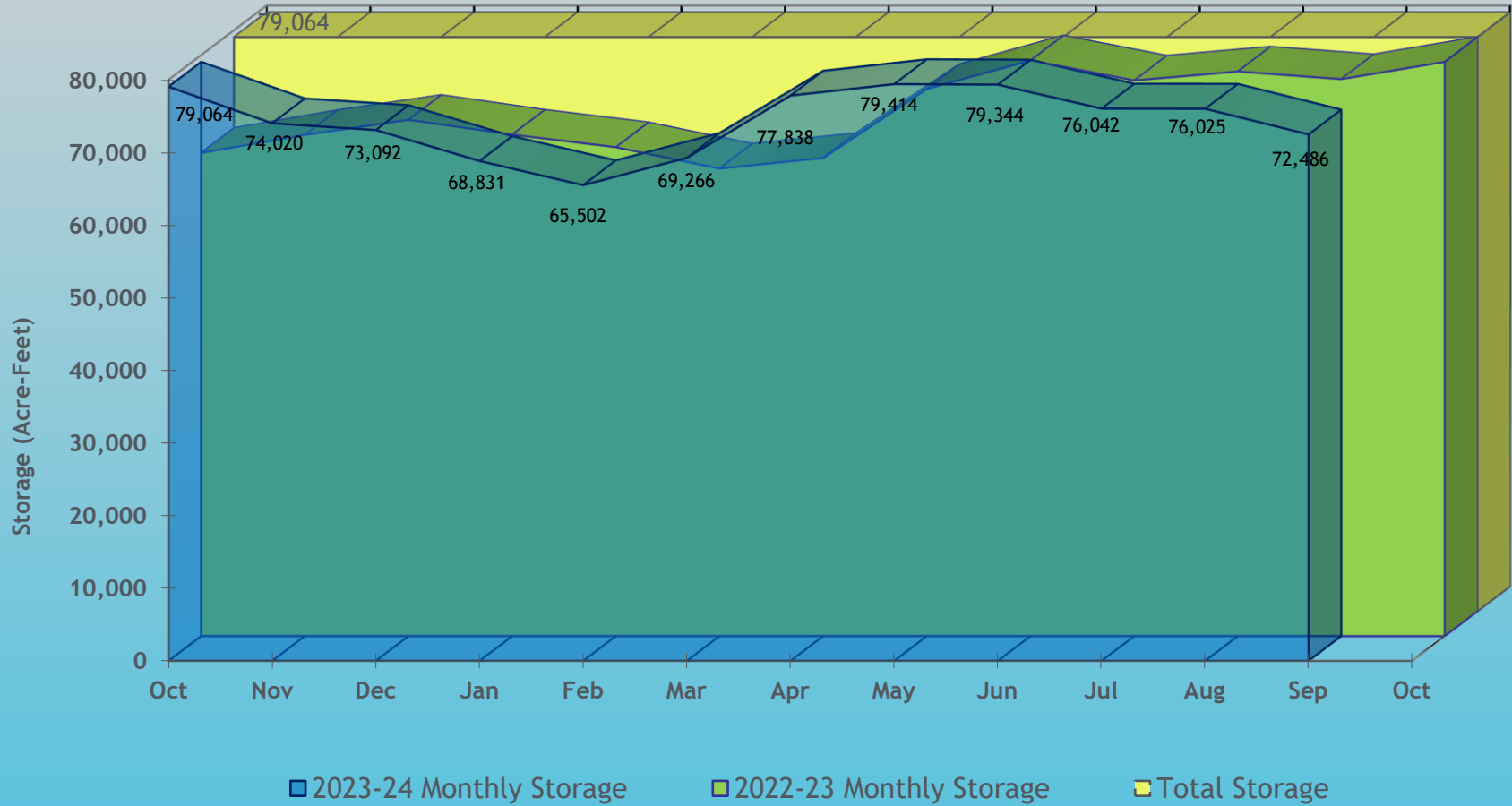
# Dillon Reservoir (District 1 - Municipal)



# Antero Reservoir (District 23 - Municipal)



# Cheesman Reservoir (District 80 - Municipal)



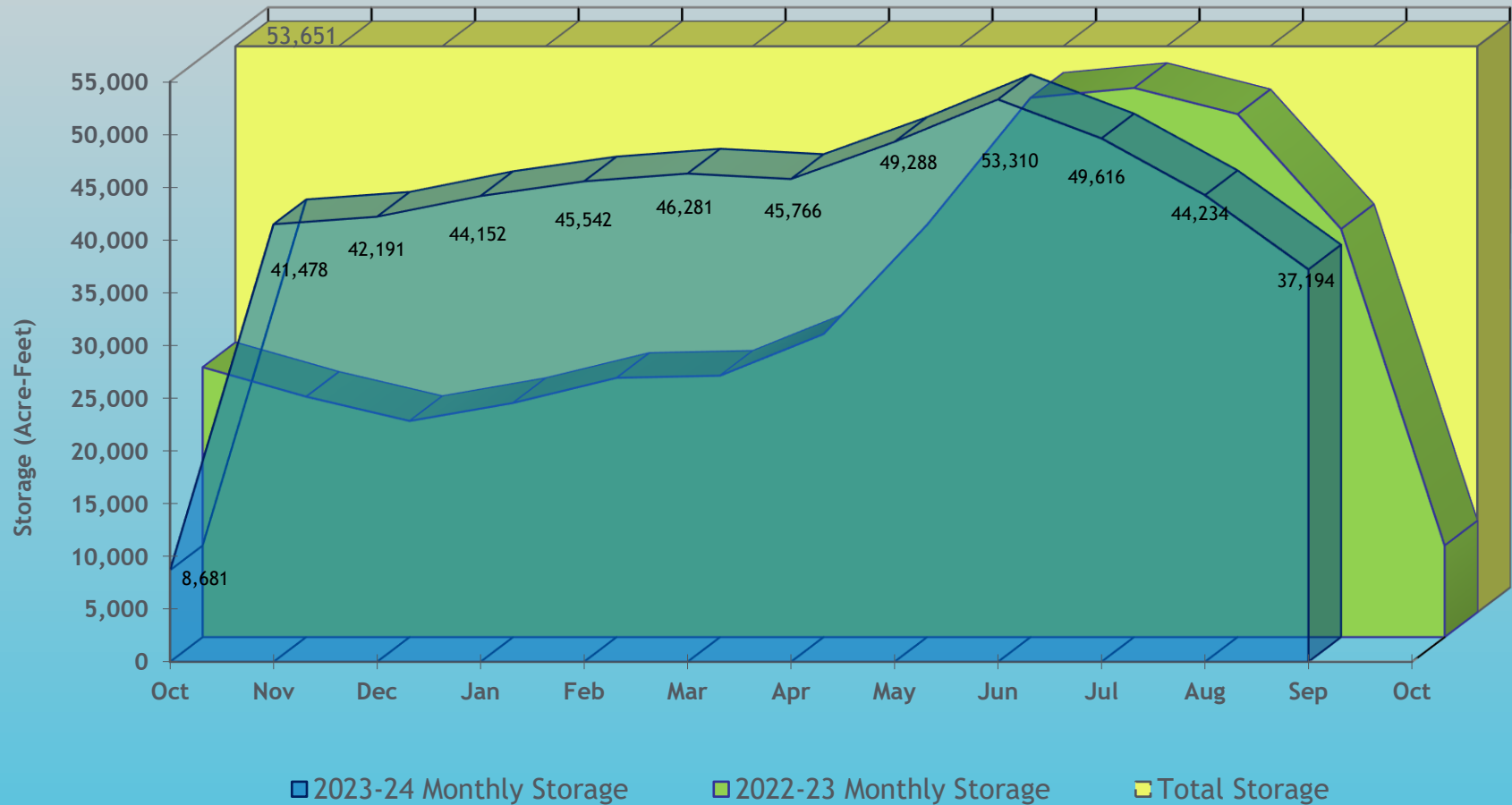
2023-24 Monthly Storage

2022-23 Monthly Storage

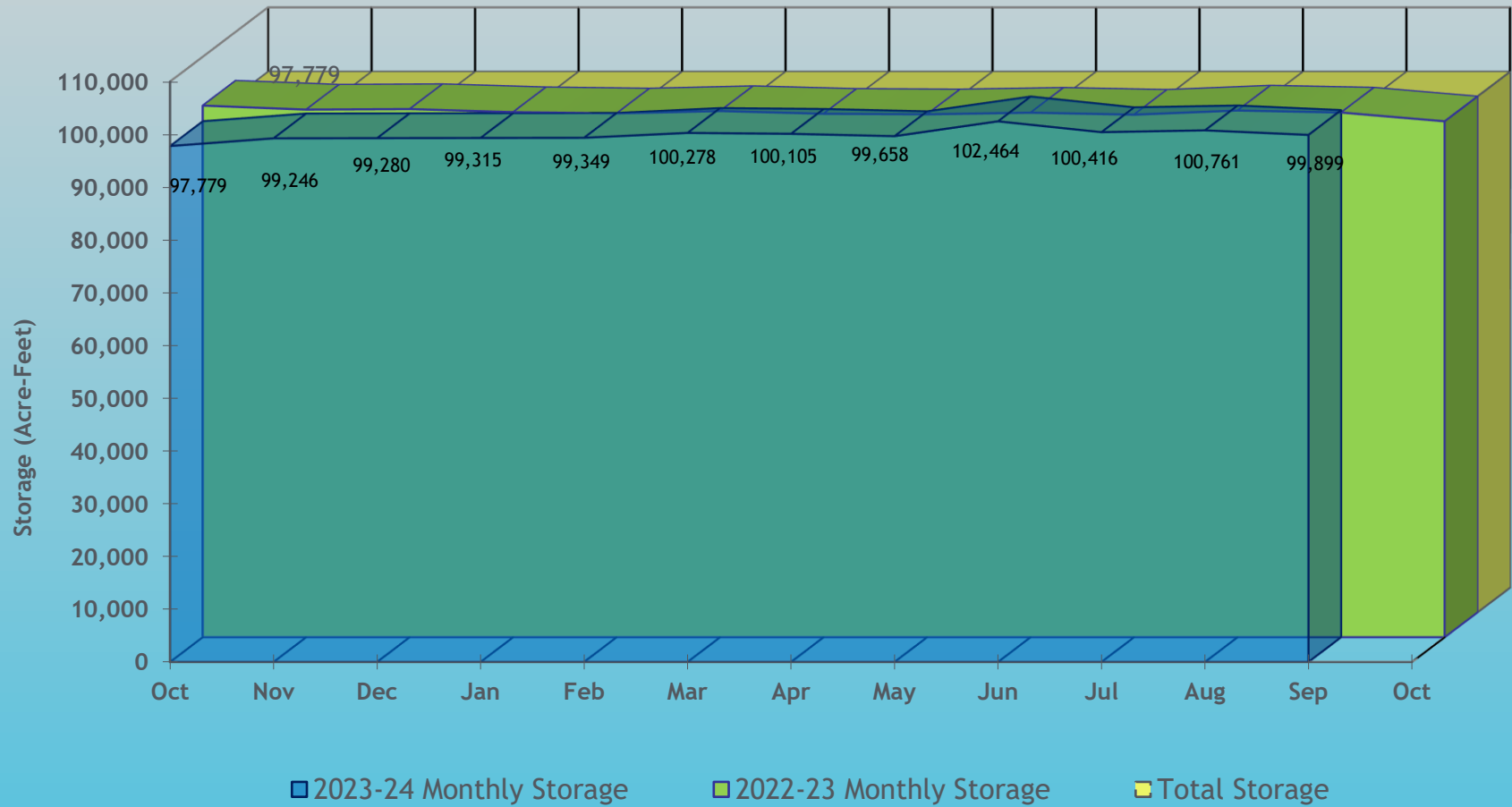
Total Storage



# Spinney Mountain Reservoir (District 23 - Municipal)



# Eleven Mile Reservoir (District 23 - Municipal)



# Lake Granby

