



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

## South Platte Summary March 2024

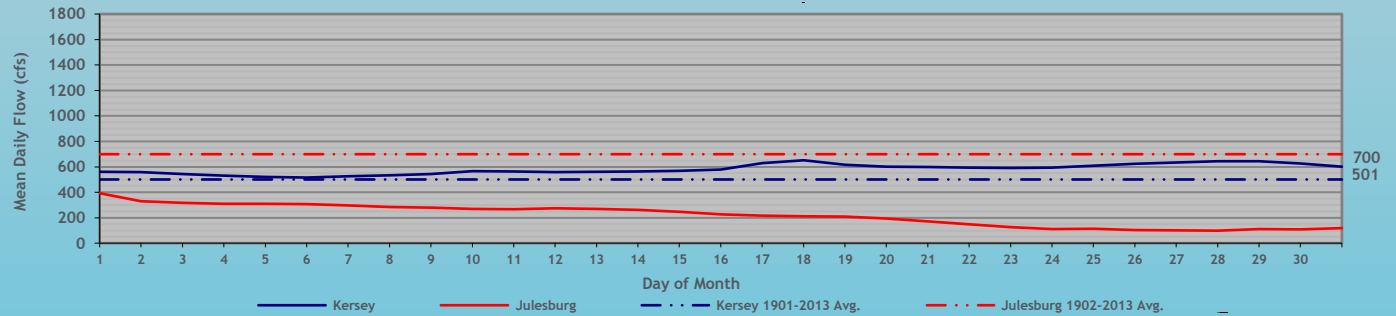
Compiled by Lee Cunning, P.E.

# COLORADO DIVISION OF WATER RESOURCES, DIVISION 1

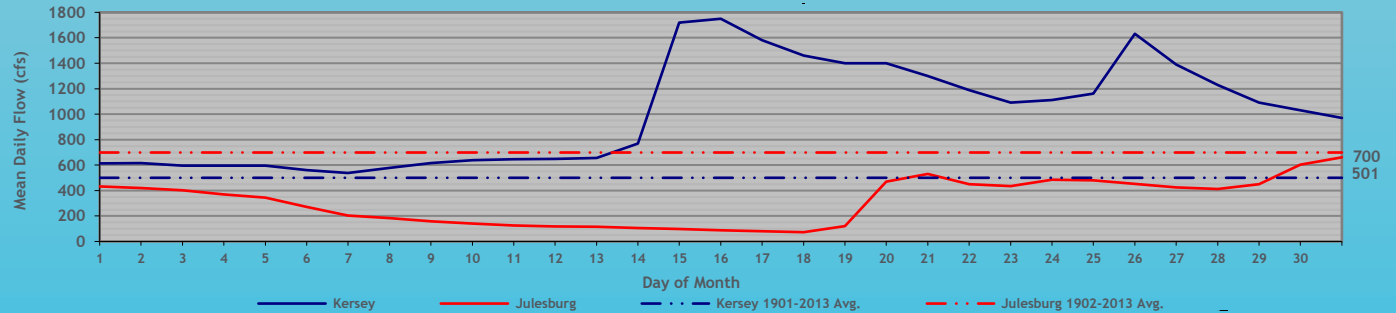
## MONTH OF March 2024

| 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                              | 14,994                     | 22,022                   | 64       | 7,028                         | 47%   | 97%                                  | 74%   | 0                     |
| N STERLING  | 73,730                              | 73,439                     | 73,725                   | 64       | 286                           | 0%  | 100%                                 | 69%   | 0                     |
| PREWITT     | 28,500                              | 28,597                     | 29,298                   | 64       | 701                           | 2%  | 100%                                 | 96%   | 798                   |
| JACKSON     | 27,257                              | 26,504                     | 27,192                   | 1        | 688                           | 3%  | 100%                                 | 99%   | 0                     |
| EMPIRE      | 37,700                              | 28,632                     | 33,817                   | 1        | 5,185                         | 18%   | 90%                                  | 88%   | 0                     |
| RIVERSIDE   | 63,113                              | 61,294                     | 62,393                   | 1        | 1,099                         | 2%  | 99%                                  | 100%  | 0                     |
| BARR LAKE   | 32,152                              | 28,254                     | 32,027                   | 2        | 3,773                         | 13%   | 100%                                 | 73%   | 0                     |
| CHEESMAN    | 79,064                              | 65,502                     | 69,266                   | 80       | 3,764                         | 6%  | 88%                                  | 81%   | 0                     |
| ELEVEN MILE | 97,779                              | 99,349                     | 100,278                  | 23       | 929                           | 1%  | 100%                                 | 100%  | 2,499                 |
| SPINNEY     | 53,651                              | 45,542                     | 46,281                   | 23       | 739                           | 2%  | 86%                                  | 46%   | 0                     |
| ANTERO      | 20,015                              | 20,494                     | 20,166                   | 23       | -328                          | -2%   | 100%                                 | 100%  | 151                   |

KERSEY and JULESBURG  
March 2023

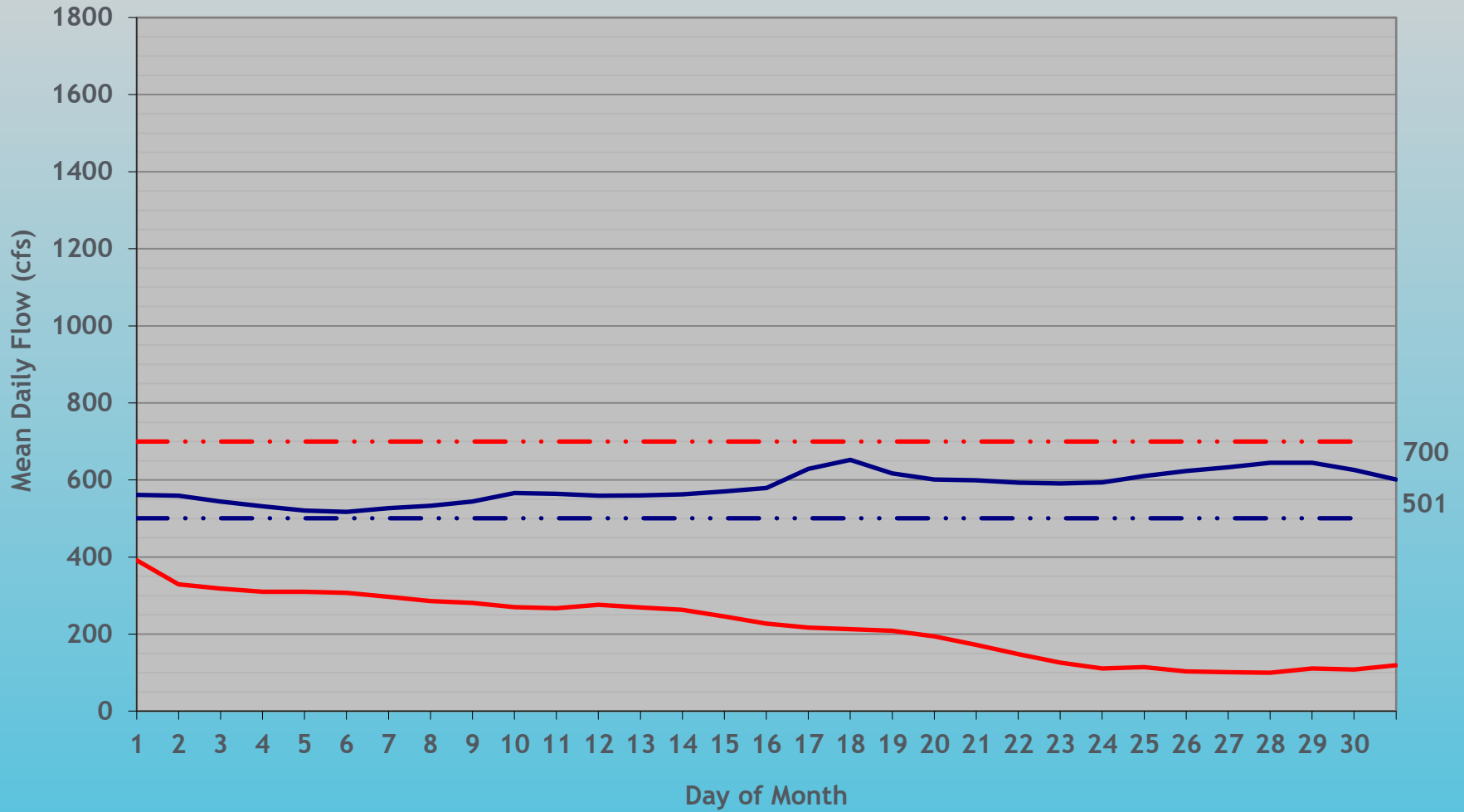


KERSEY and JULESBURG  
March 2024



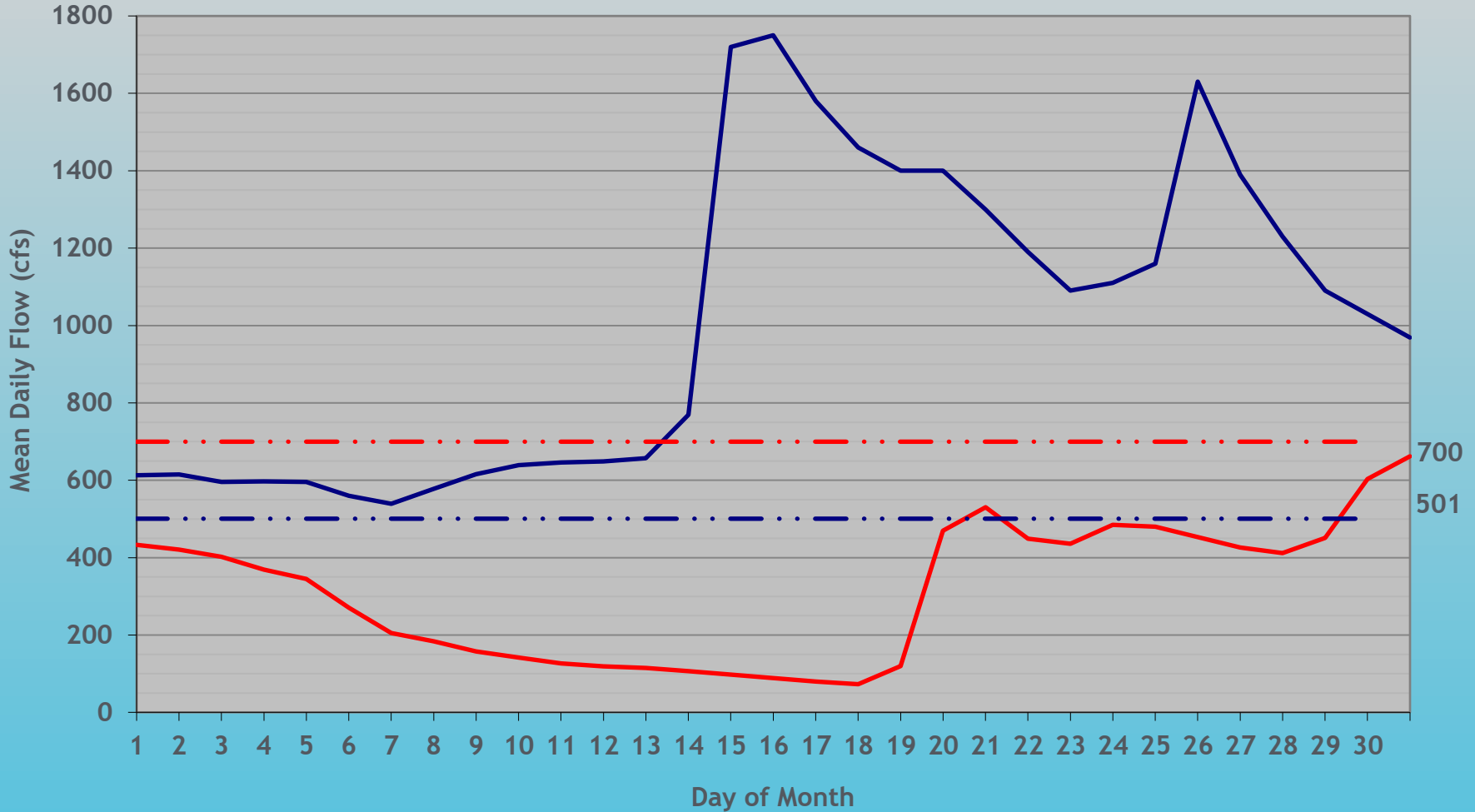
| RIVER GAGES                       | MEAN DAILY FLOW (CFS) |
|-----------------------------------|-----------------------|
| <b>KERSEY</b>                     | <b>1005</b>           |
| <b>JULESBURG</b>                  | <b>313</b>            |
| <b>THIS MONTH LAST YEAR</b>       |                       |
| <b>KERSEY</b>                     | <b>583</b>            |
| <b>JULESBURG</b>                  | <b>219</b>            |
| <b>MEAN FOR PERIOD OF RECORD*</b> |                       |
| <b>KERSEY</b>                     | <b>501</b>            |
| <b>JULESBURG</b>                  | <b>700</b>            |
| *Kersey 1901 - 2016               |                       |
| *Julesburg 1902 - 2016            |                       |

# KERSEY and JULESBURG March 2023



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

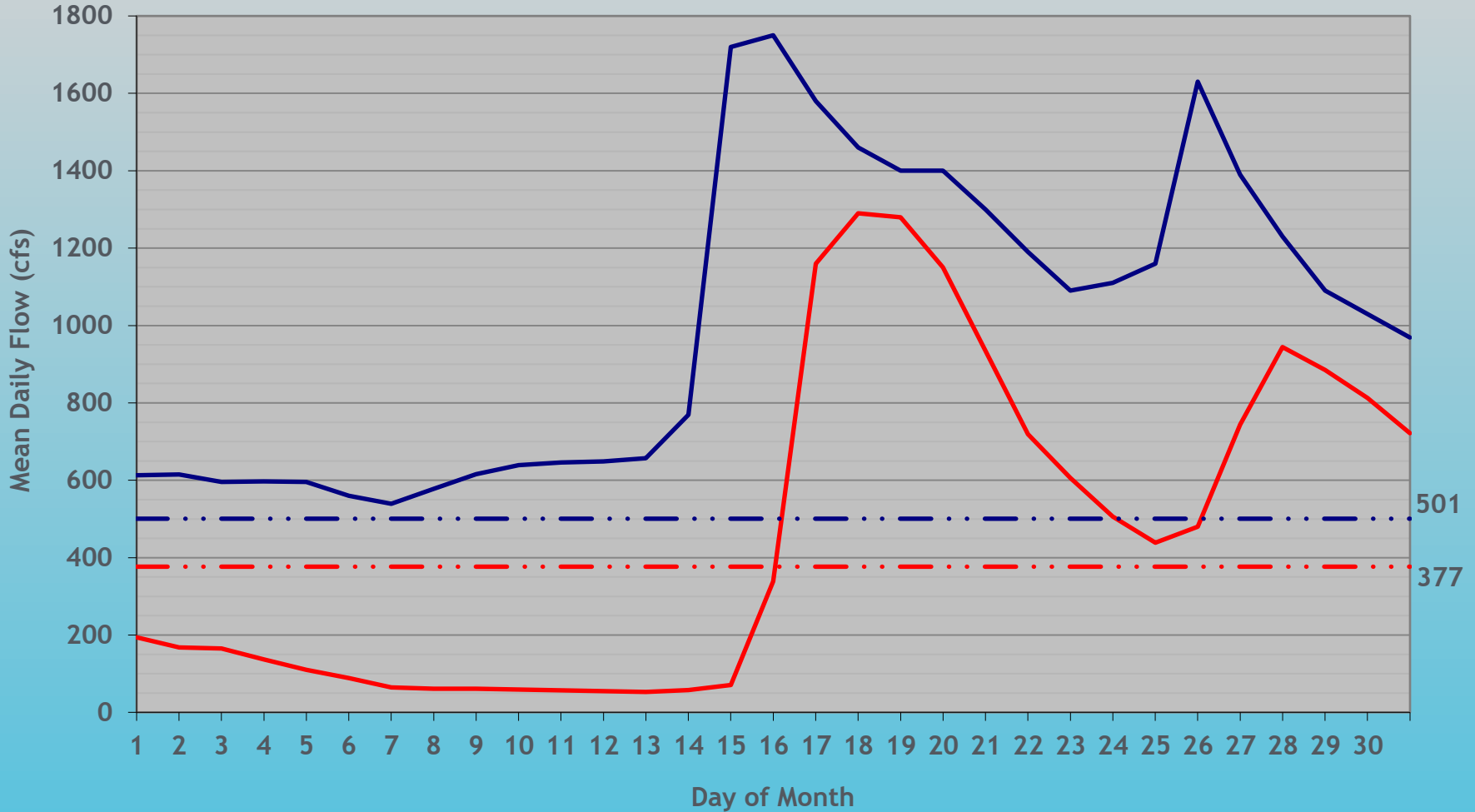
# KERSEY and JULESBURG March 2024



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

# KERSEY and BALZAC

## March 2024



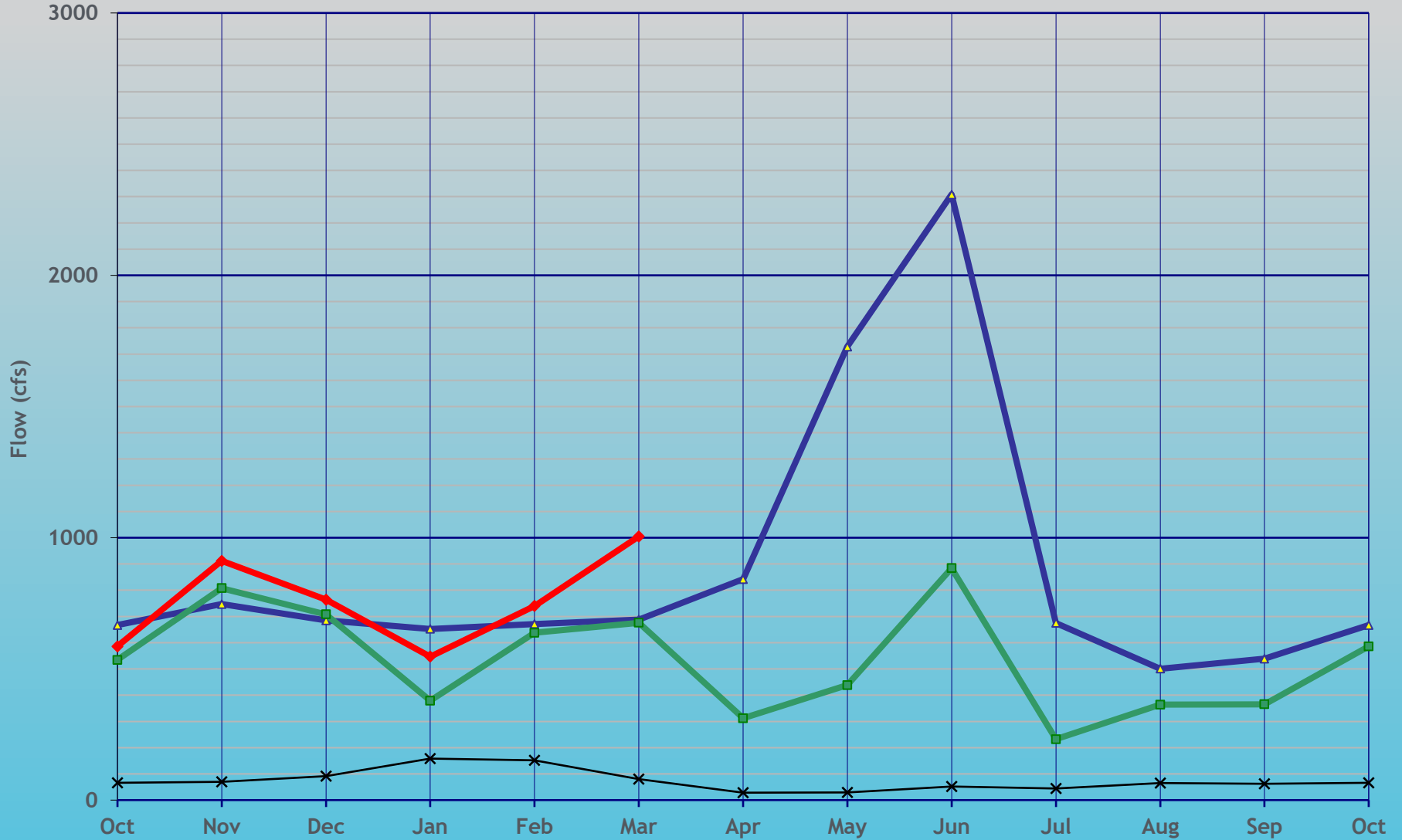
— Kersey      — Balzac      - · Kersey 1901-2013 Avg.      - · Balzac 1917-2013 Avg.

# South Platte River Monthly Stream Flow (cfs) Statistics

| South Platte River at Kersey |                     |                    |      |                    |      |                           | South Platte River at Julesburg |                     |                    |      |                    |      |                           |
|------------------------------|---------------------|--------------------|------|--------------------|------|---------------------------|---------------------------------|---------------------|--------------------|------|--------------------|------|---------------------------|
| Month                        | Historic* Mean Flow | Historic* Max Flow | Year | Historic* Min Flow | Year | IY 2024 Mean Monthly Flow | Month                           | Historic* Mean Flow | Historic* Max Flow | Year | Historic* Min Flow | Year | IY 2024 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 |                           | Apr                             | 514                 | 14400              | 1942 | 4.0                | 1904 |                           |
| May                          | 1728                | 26100              | 1973 | 29                 | 1955 |                           | May                             | 994                 | 18100              | 1973 | 12                 | 1911 |                           |
| Jun                          | 2308                | 31000              | 1921 | 52                 | 1954 |                           | Jun                             | 1426                | 30800              | 1921 | 2.0                | 1910 |                           |
| Jul                          | 675                 | 12600              | 1983 | 44                 | 1955 |                           | Jul                             | 311                 | 12600              | 1983 | 0.0                | 1903 |                           |
| Aug                          | 501                 | 9690               | 1951 | 65                 | 1934 |                           | Aug                             | 178                 | 8920               | 1968 | 0.0                | 1903 |                           |
| Sep                          | 539                 | 14200              | 1938 | 62                 | 1940 |                           | Sep                             | 284                 | 7130               | 1938 | 2.0                | 1902 |                           |
| 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



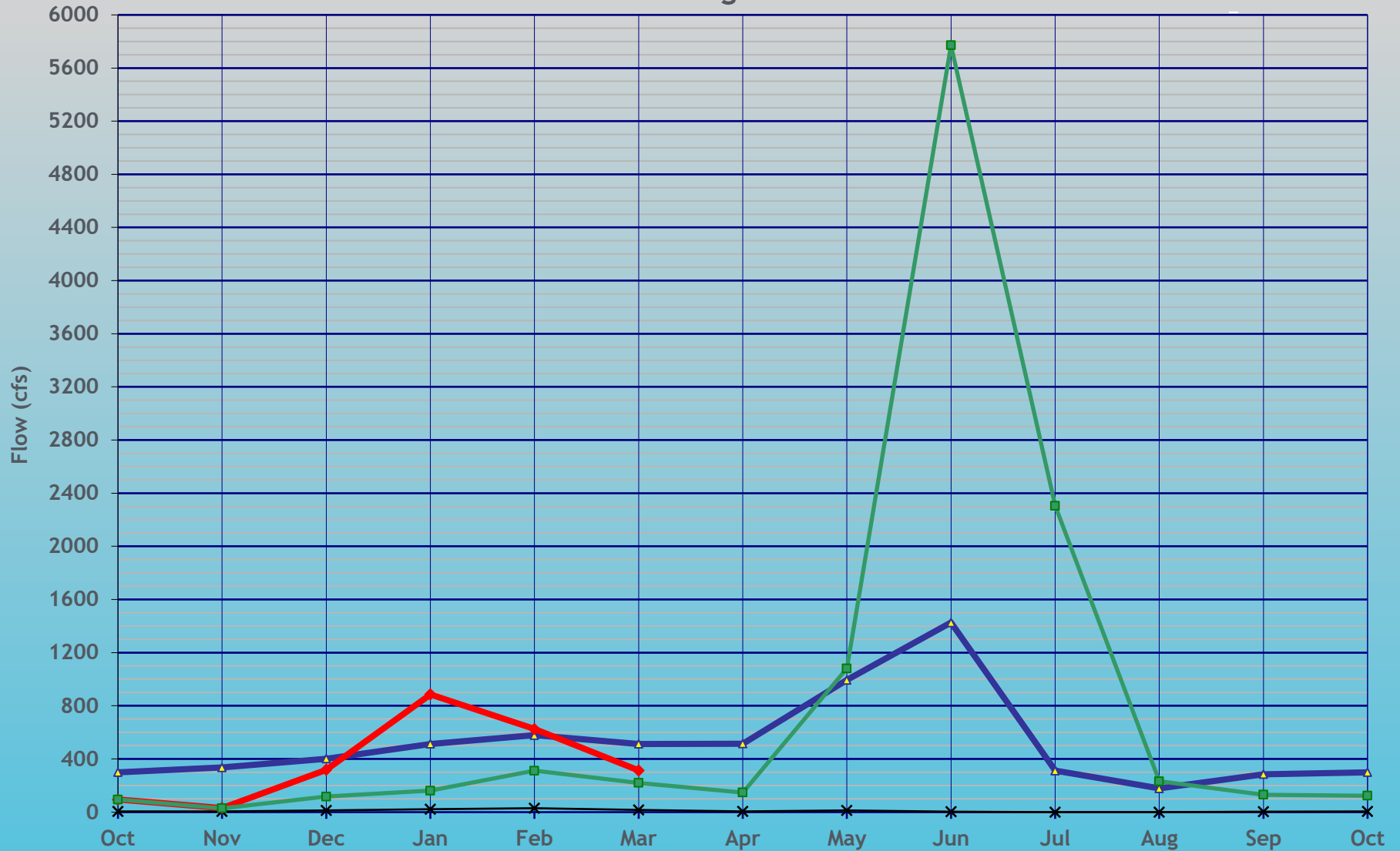
—▲— Historic\* Mean Flow    —×— Historic\* Min Flow    —◆— 2023-2024 Mean Flow    —■— 2022-2023 Mean Flow

\*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



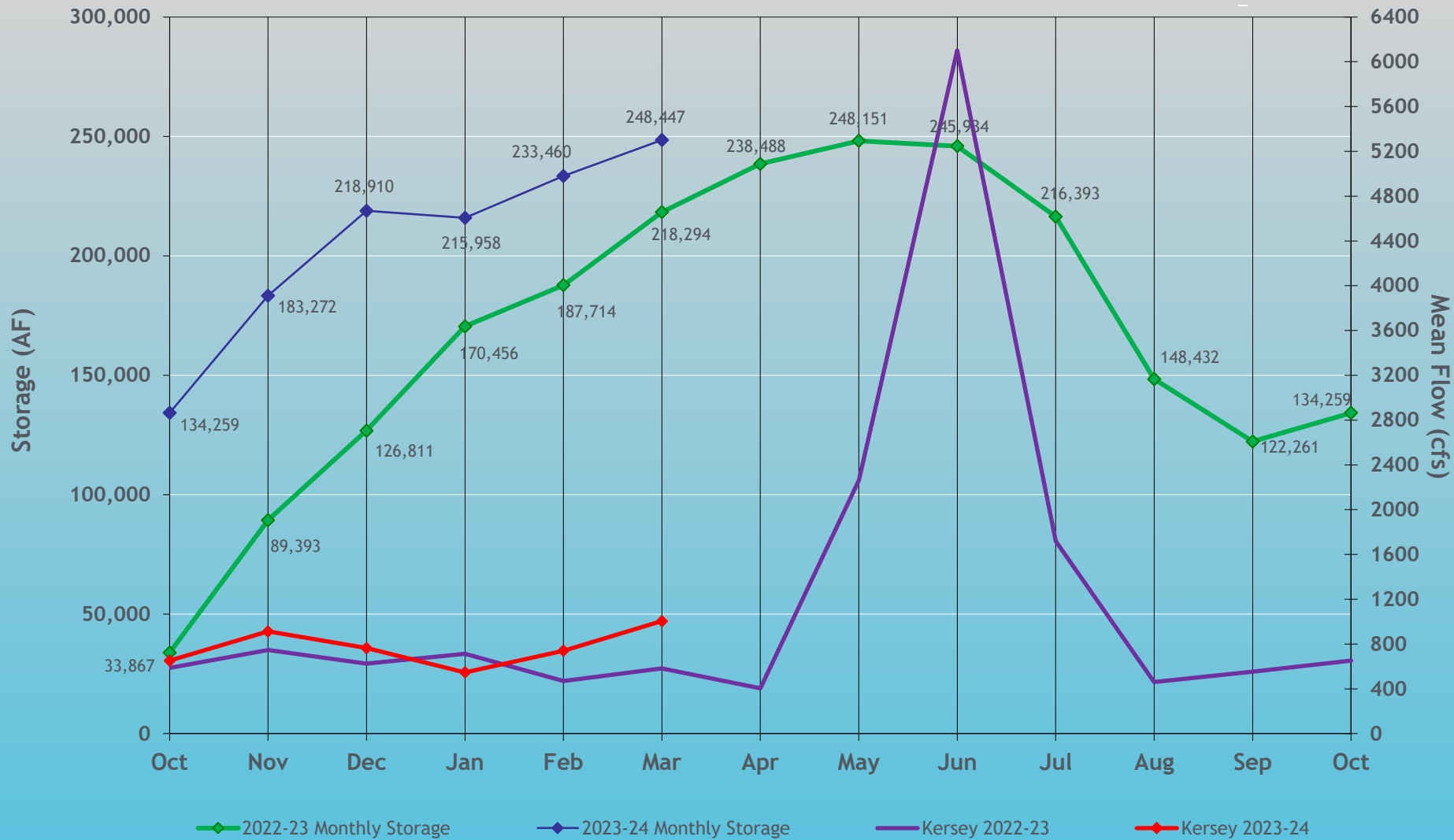




Next three slides show Reservoir Storage above and below Kersey

# Reservoir Storage below Kersey

Selected Reservoirs\*

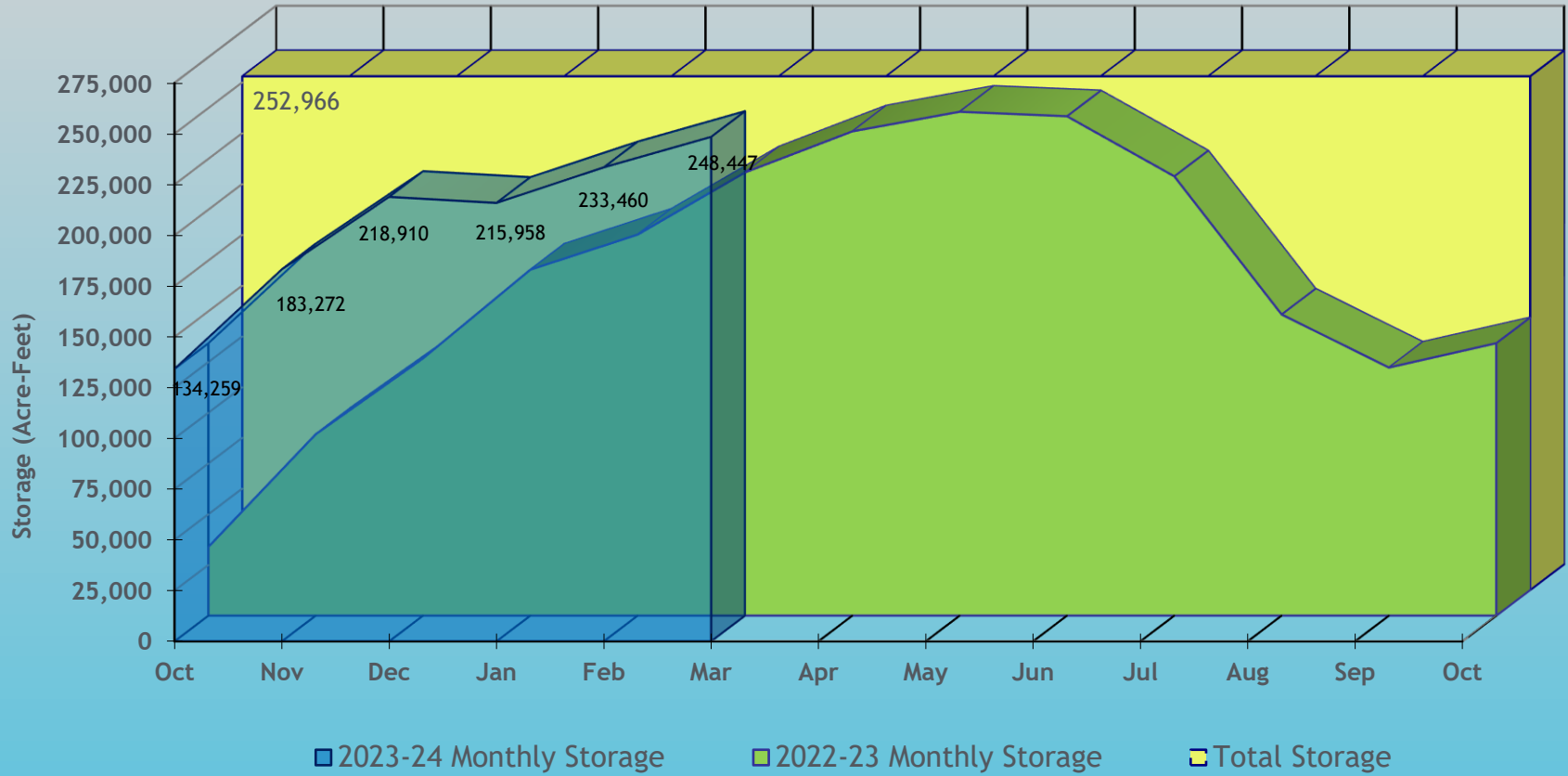


\*Empire, Riverside, Jackson, Prewitt, North Sterling, & Julesburg



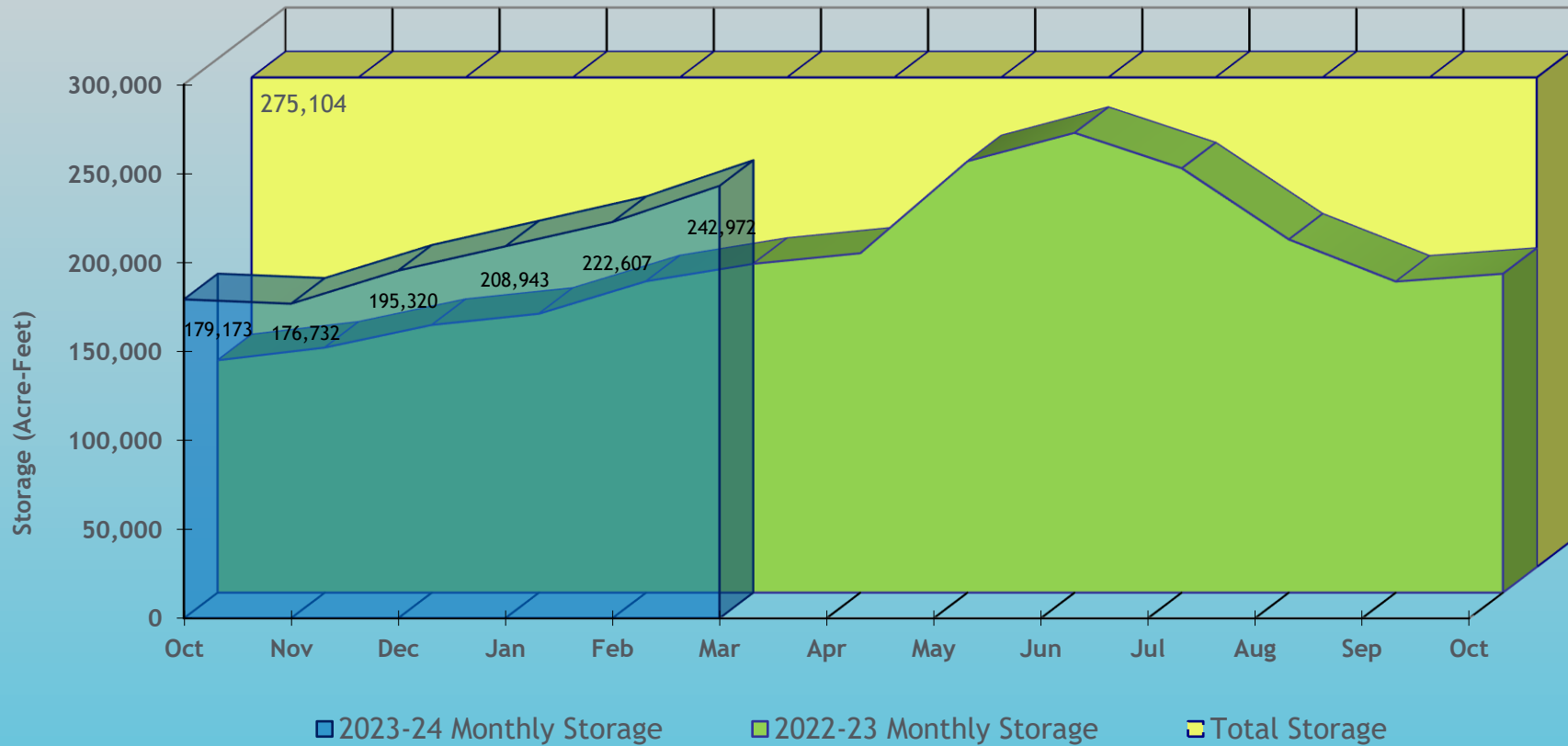
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Natural Resources

# South Platte Reservoir Storage below Kersey\*



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

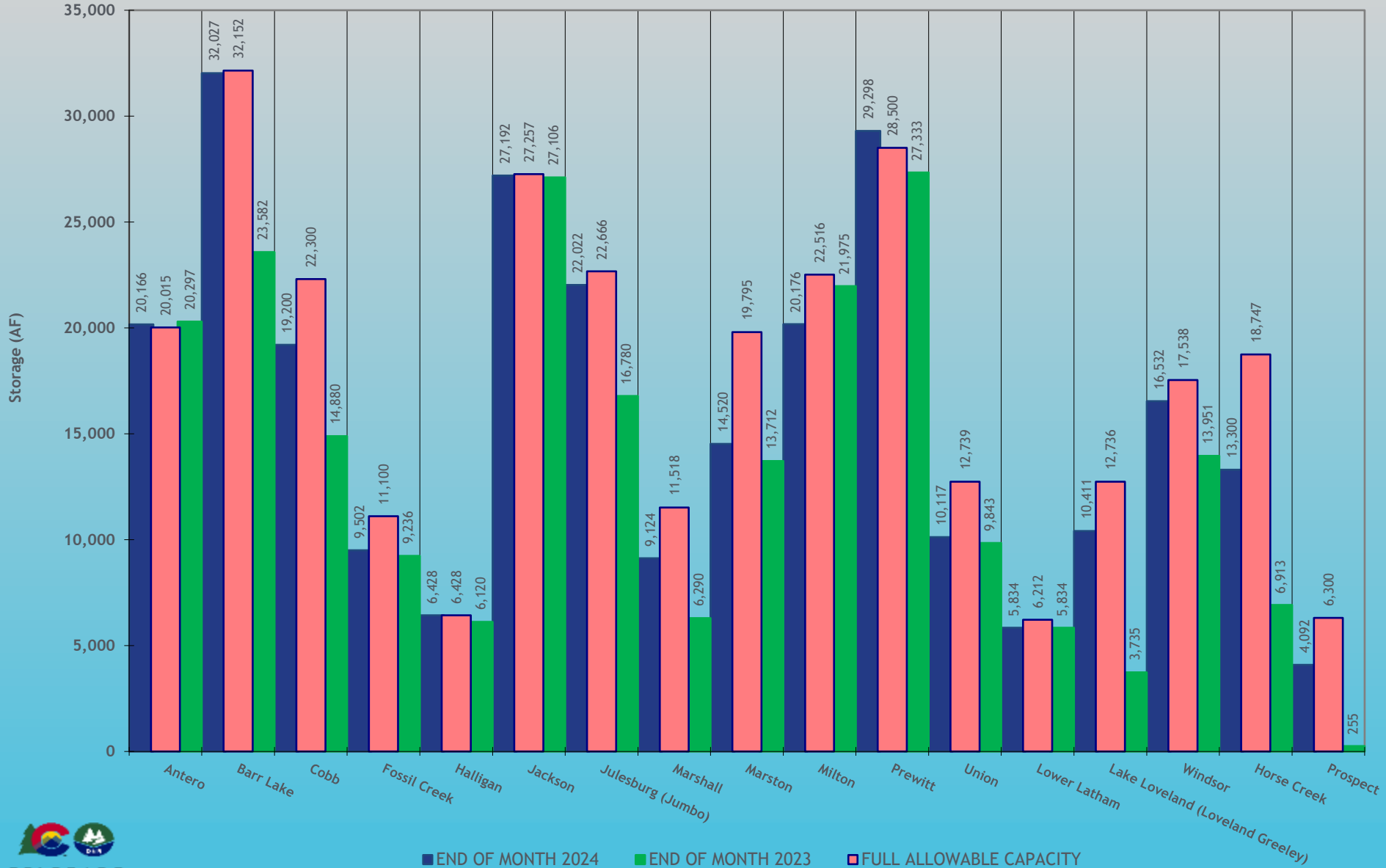
# South Platte Reservoir Storage above Kersey\*



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

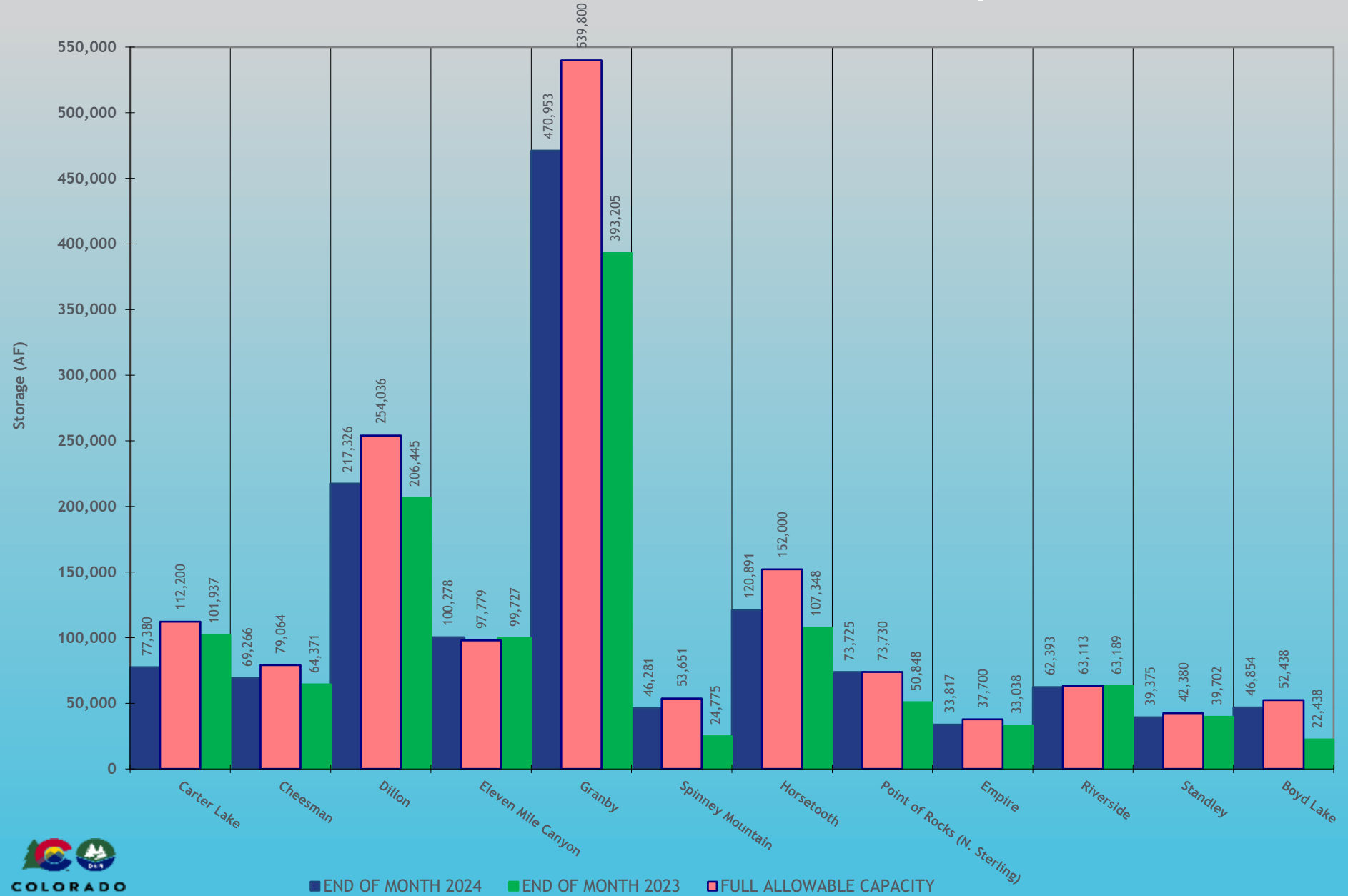


# March Reservoir Change in Storage IY2023 versus IY2024

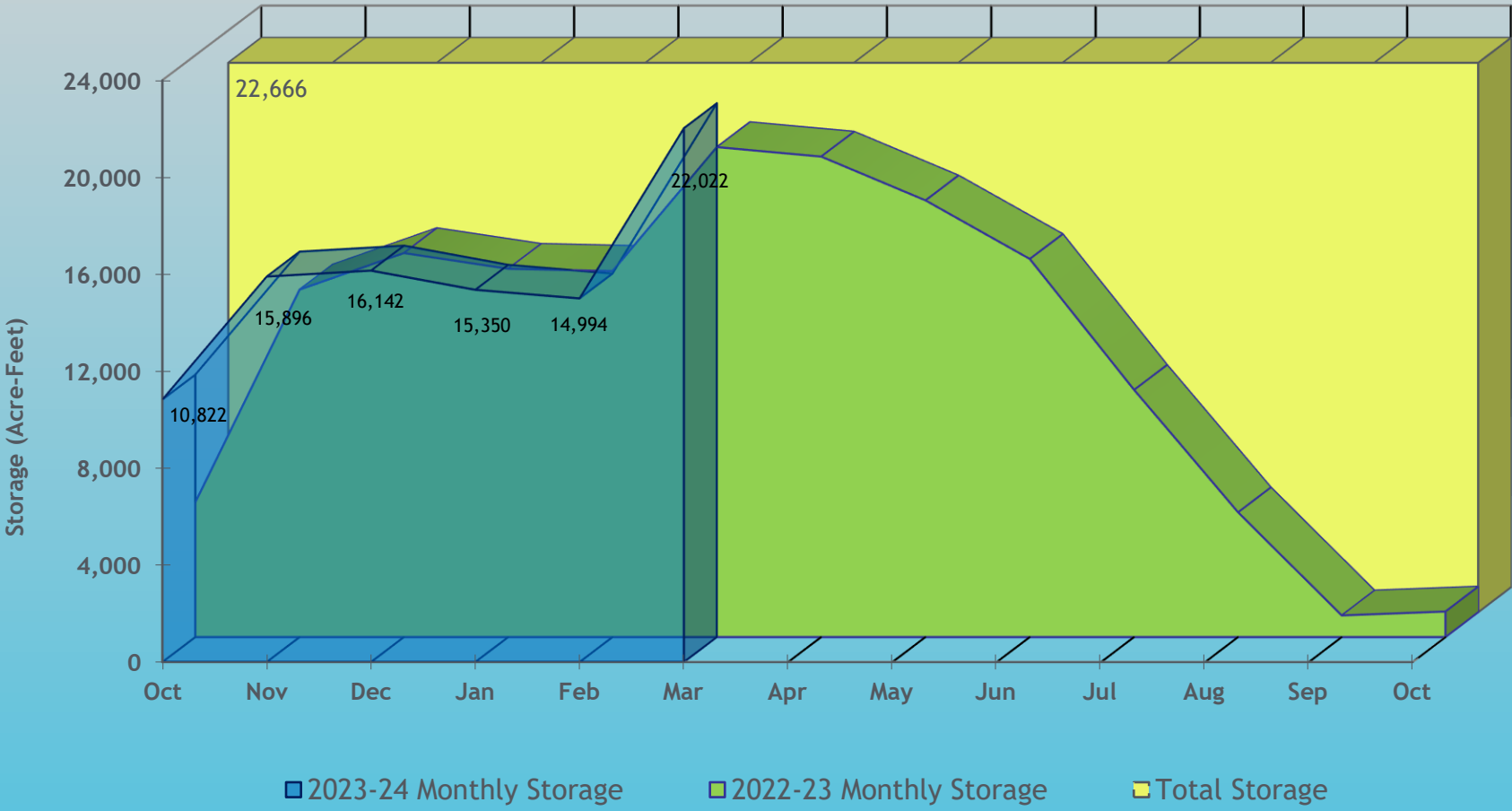


■ END OF MONTH 2024    
 ■ END OF MONTH 2023    
 ■ FULL ALLOWABLE CAPACITY

# March Reservoir Change in Storage IY2023 versus IY2024

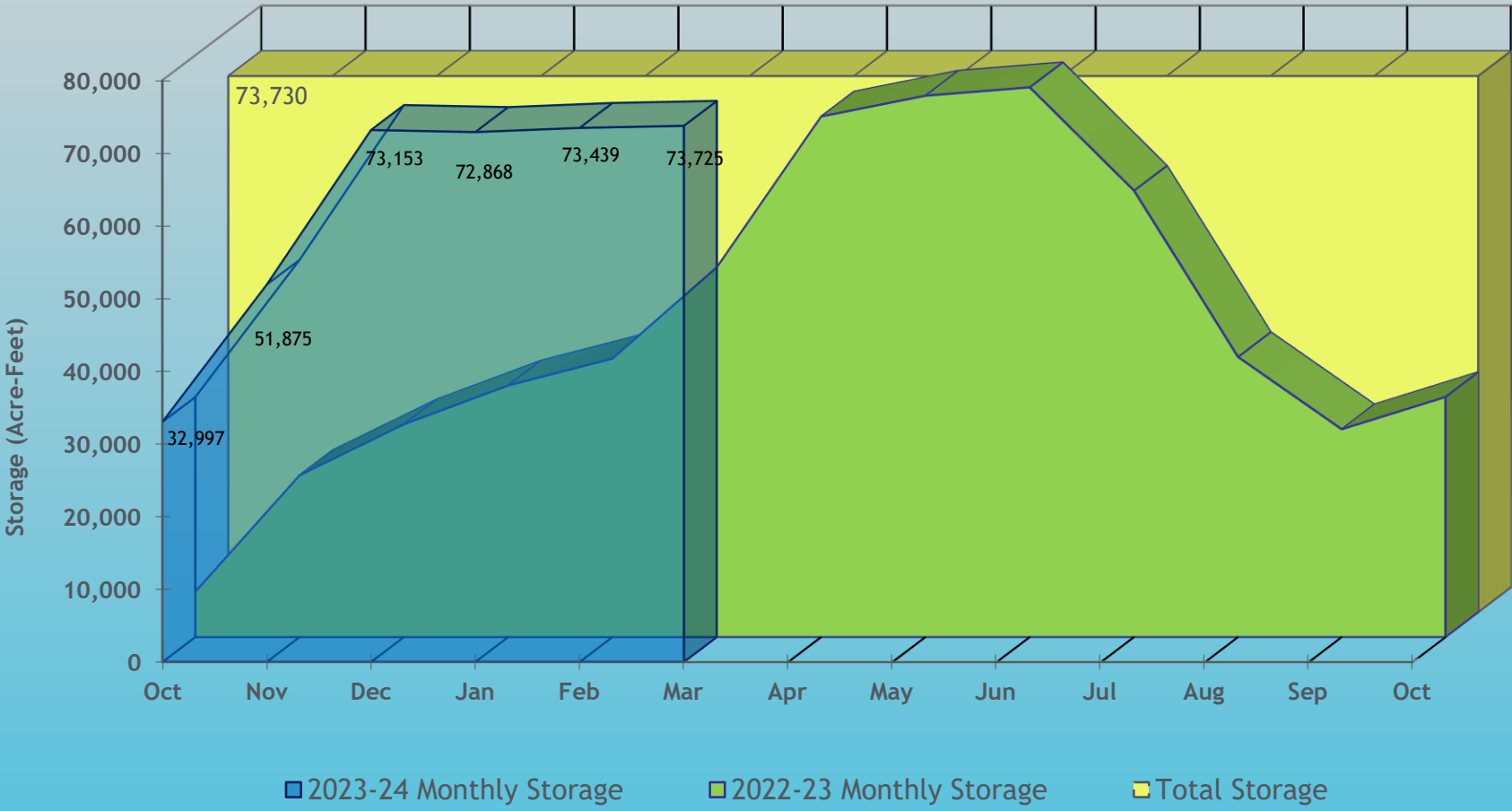


# Julesburg Reservoir (District 64 - Agricultural)

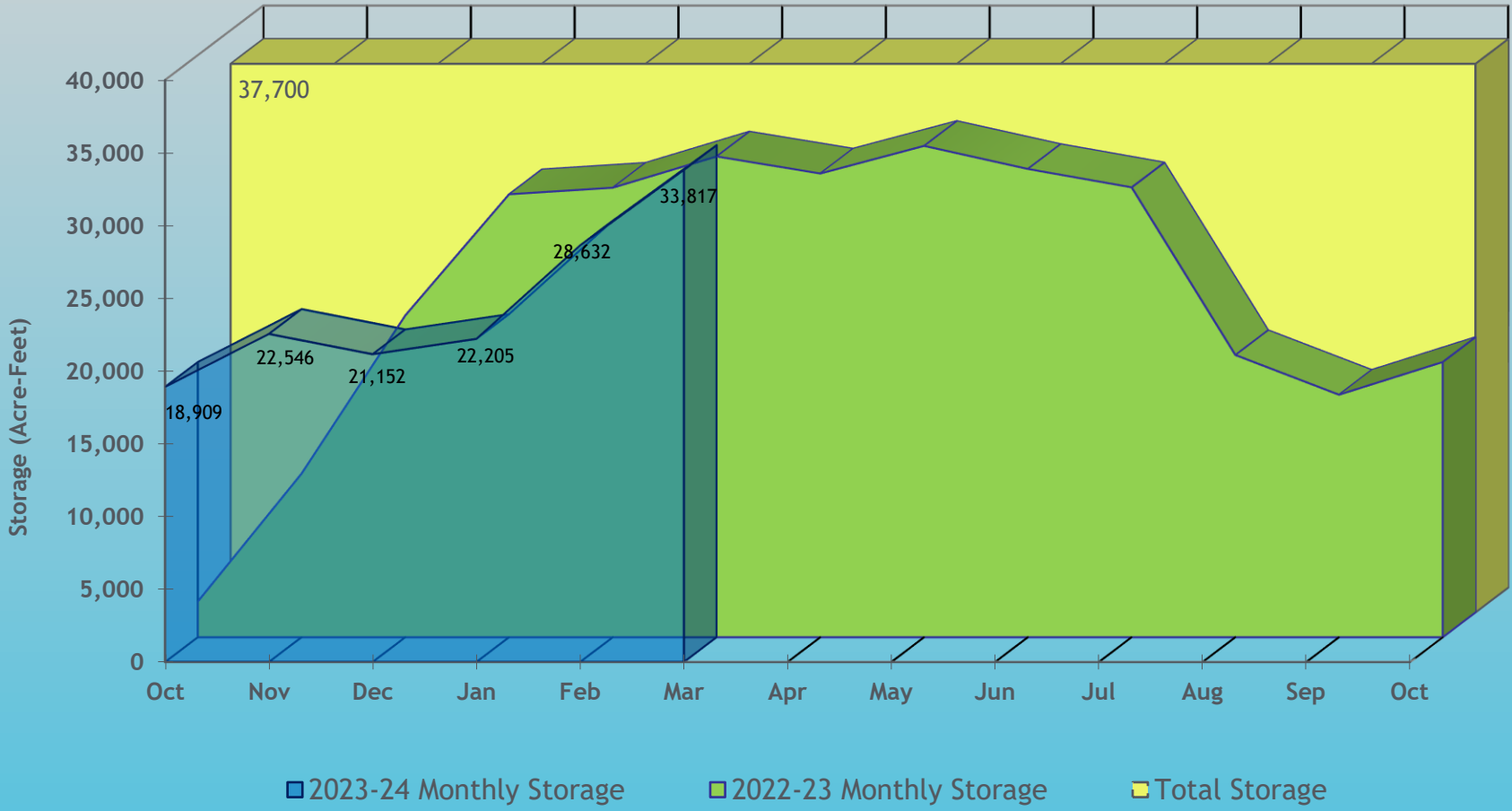




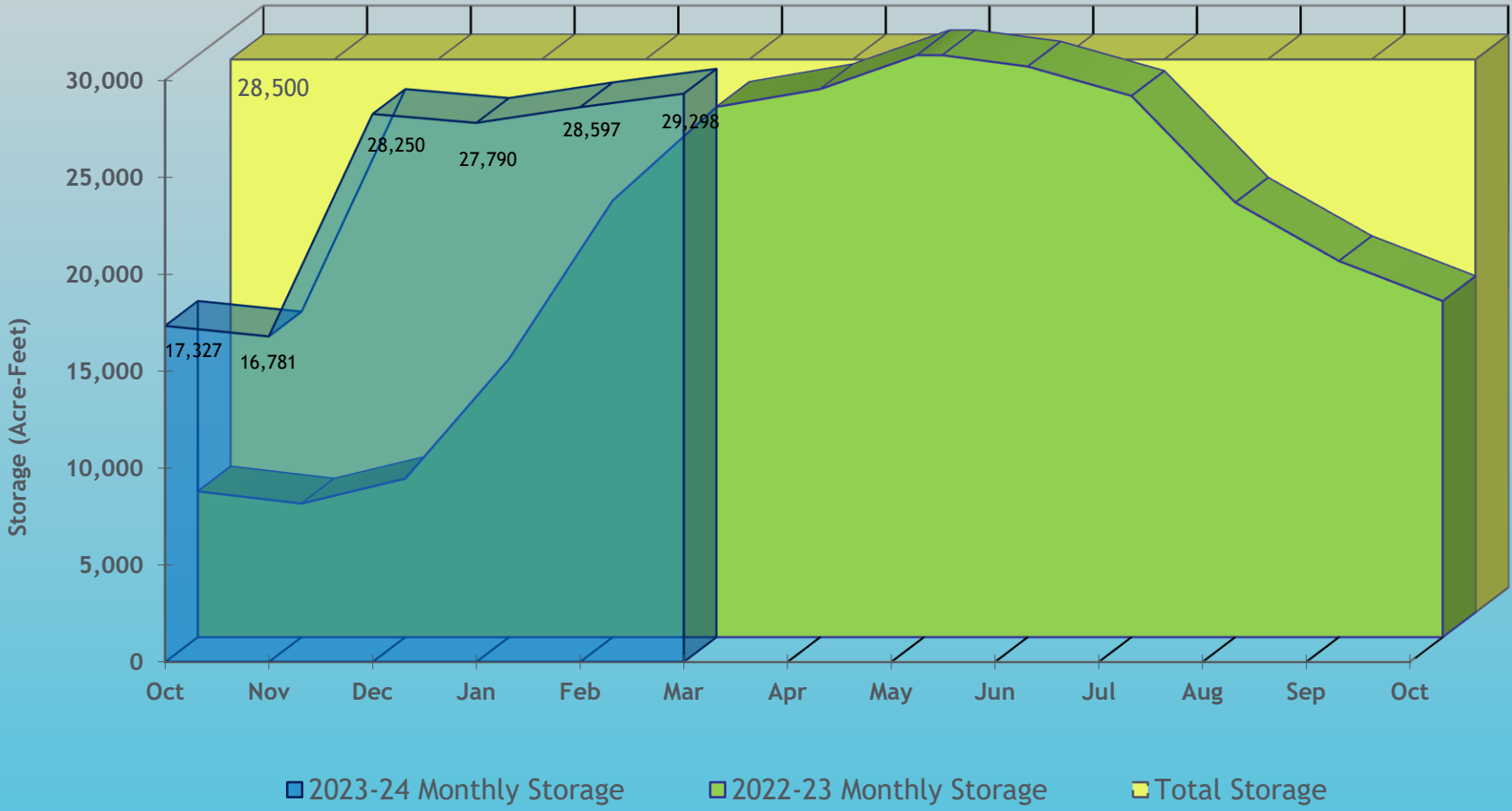
# North Sterling Reservoir (District 64 - Agricultural)



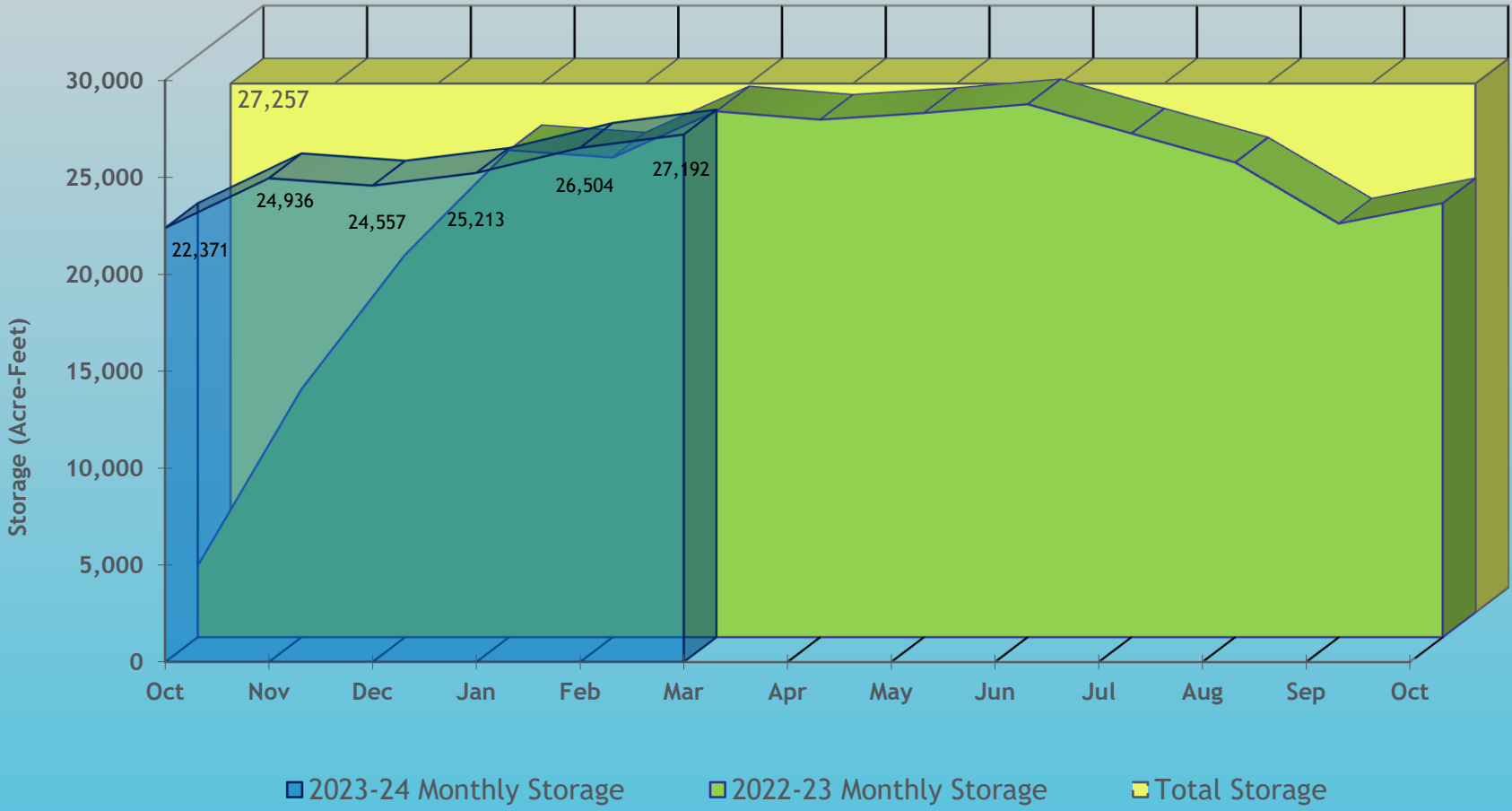
# Empire Reservoir (District 1 - Agricultural)



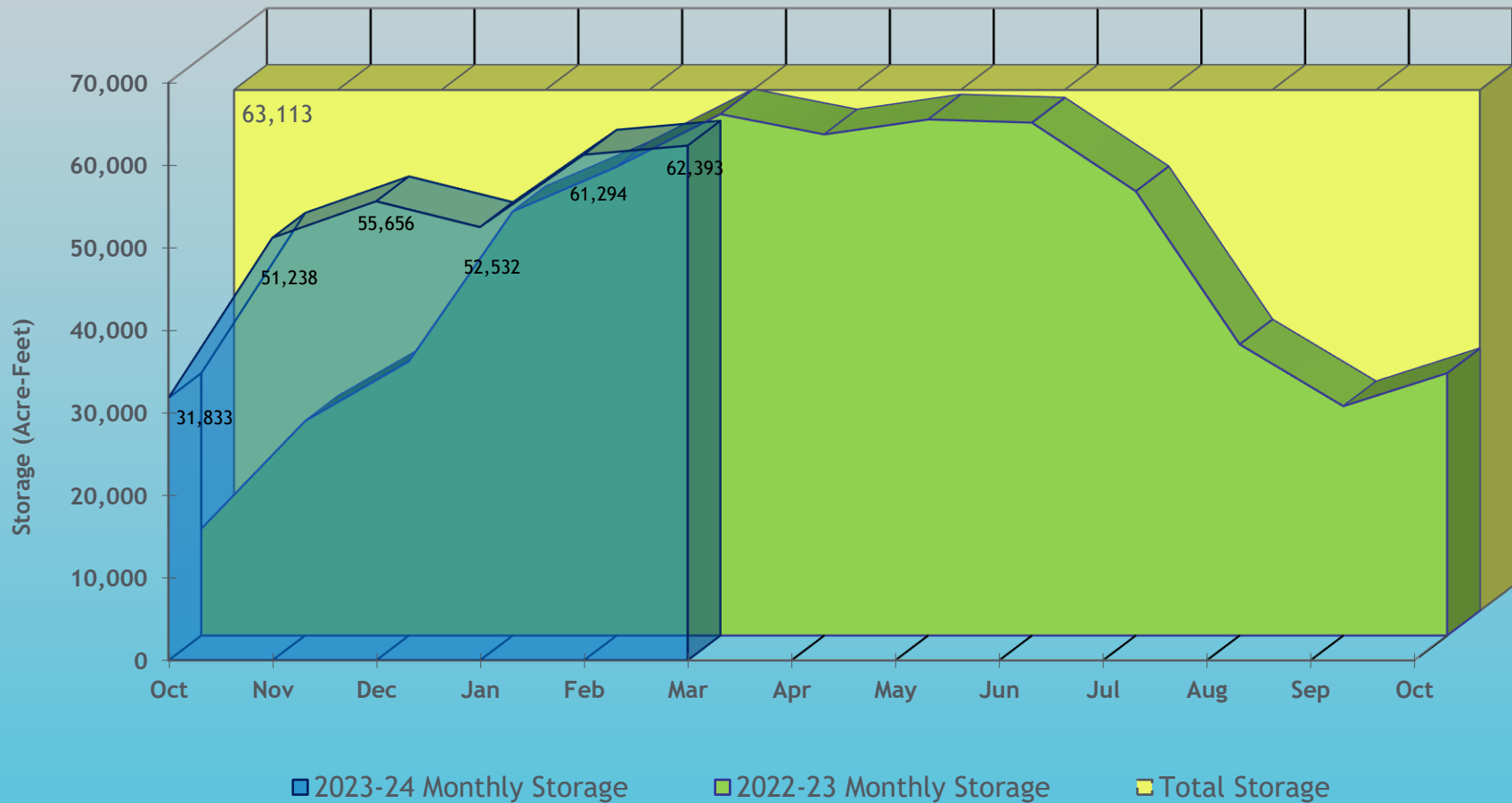
# Prewitt Reservoir (District 64 - Agricultural)



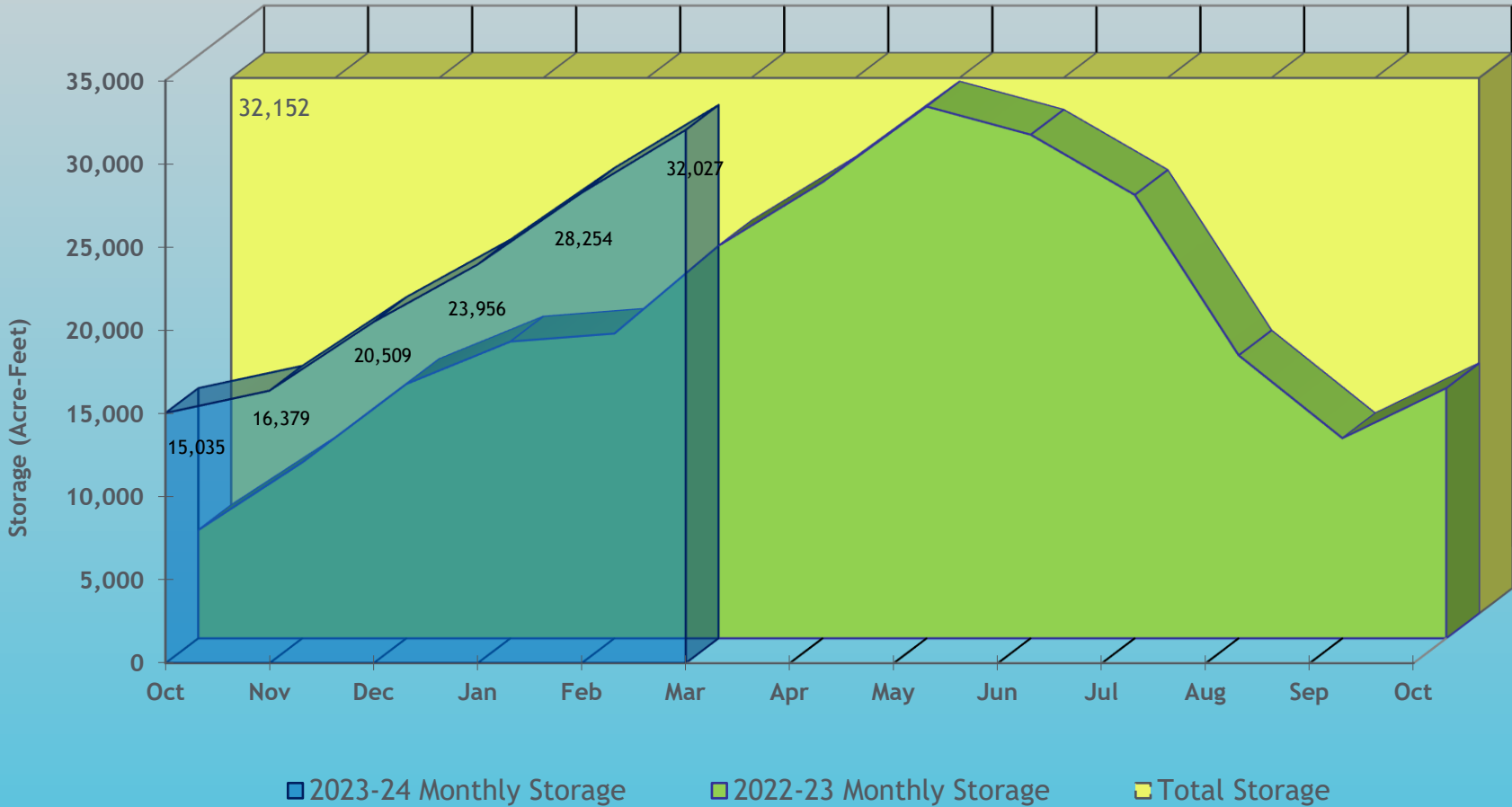
# Jackson Reservoir (District 1 - Agricultural)



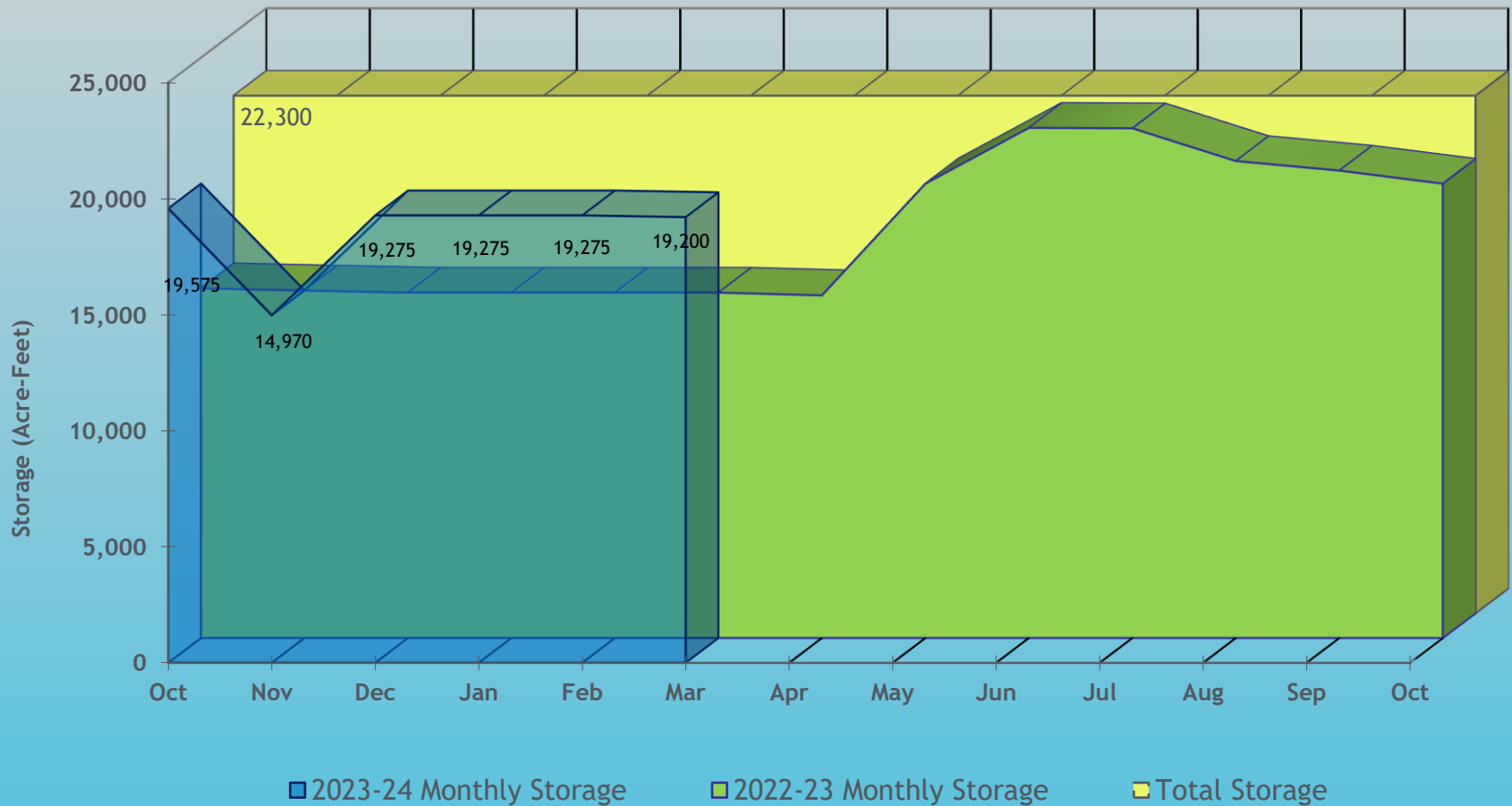
# Riverside Reservoir (District 1 - Agricultural)



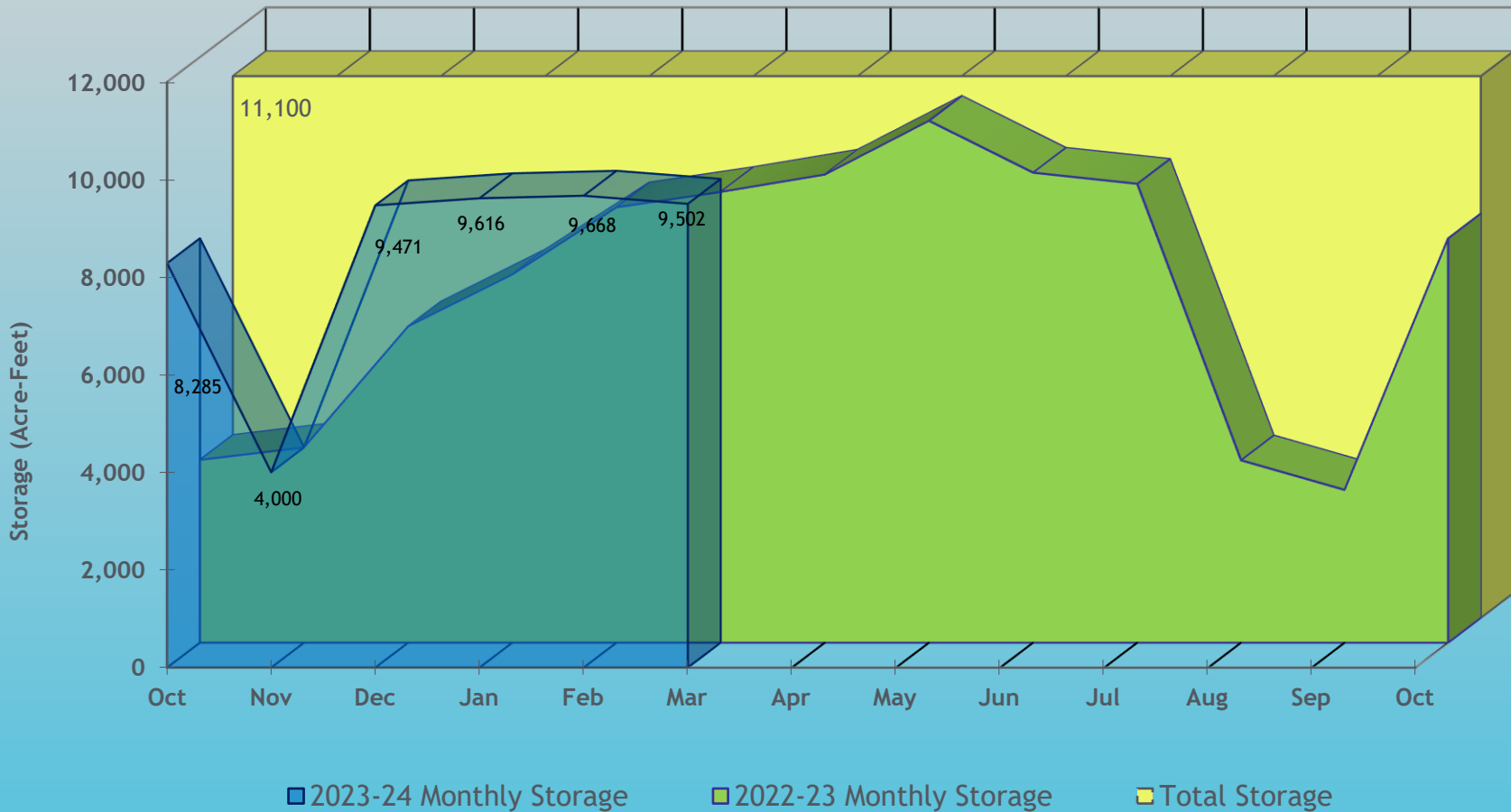
# Barr Reservoir (District 2 - Agricultural)



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

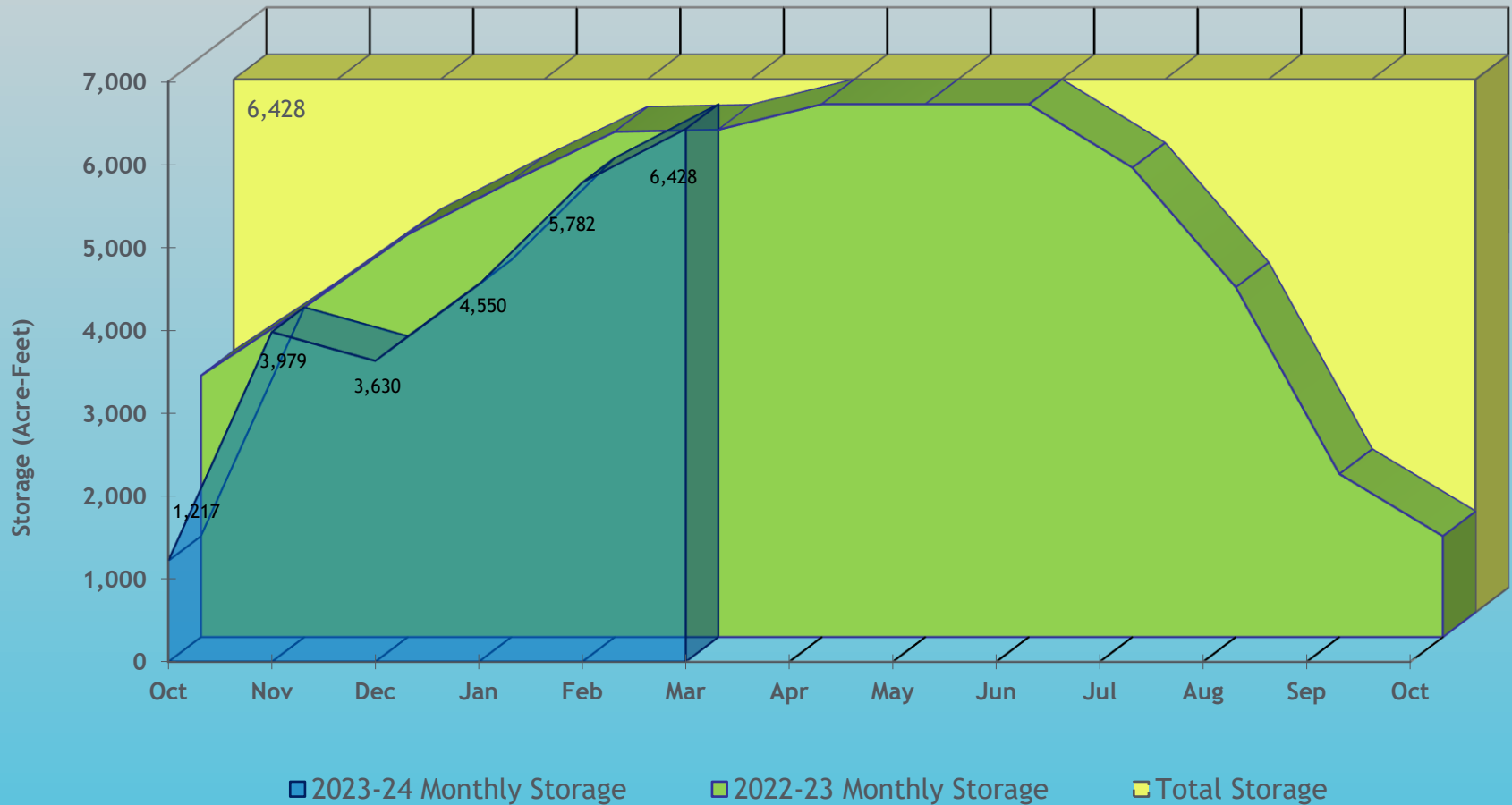


# Fossil Creek Reservoir (District 3, Poudre River - Agricultural)

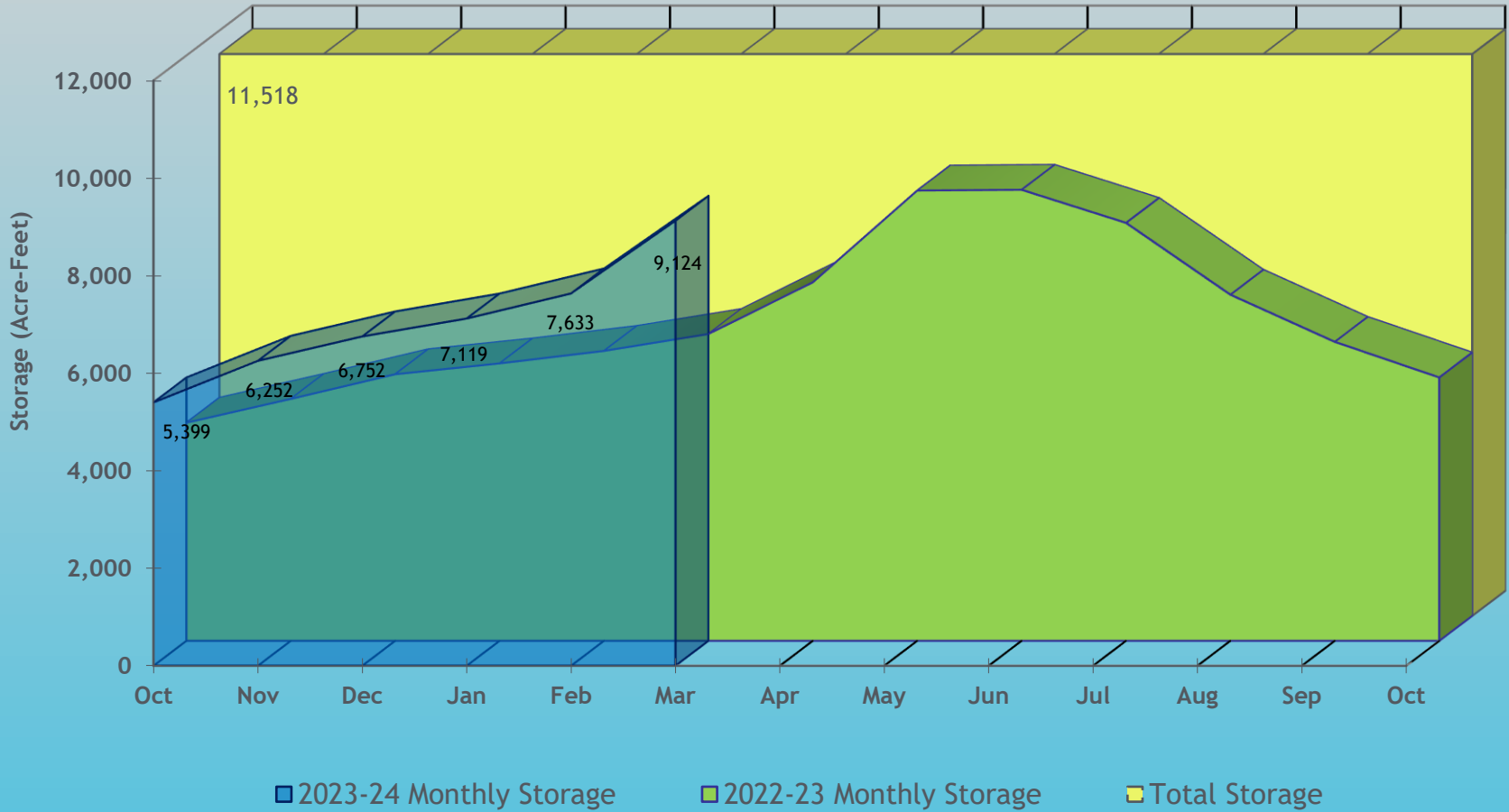




# Halligan Reservoir (District 3, Poudre River - Agricultural)



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

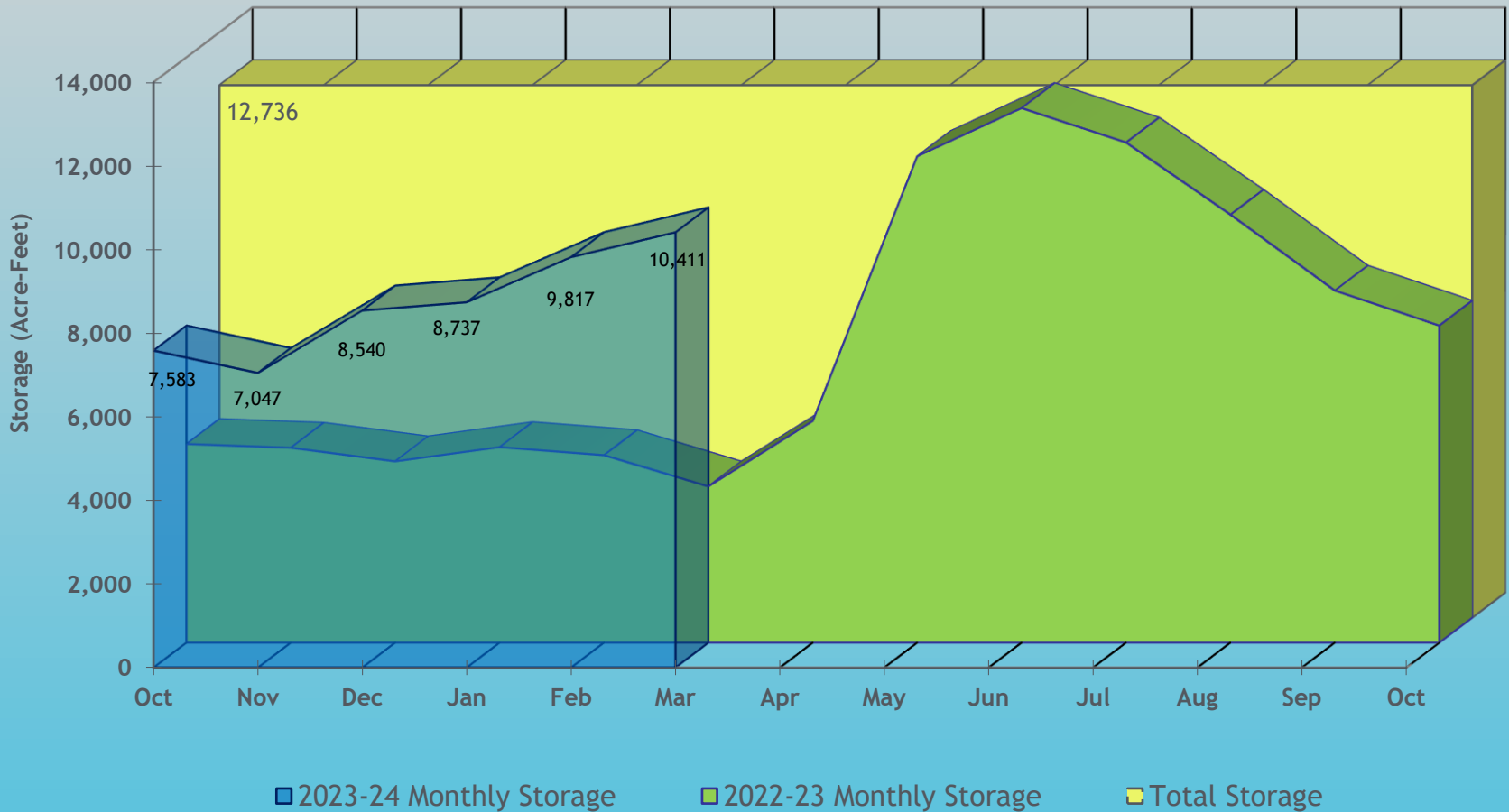


■ 2023-24 Monthly Storage

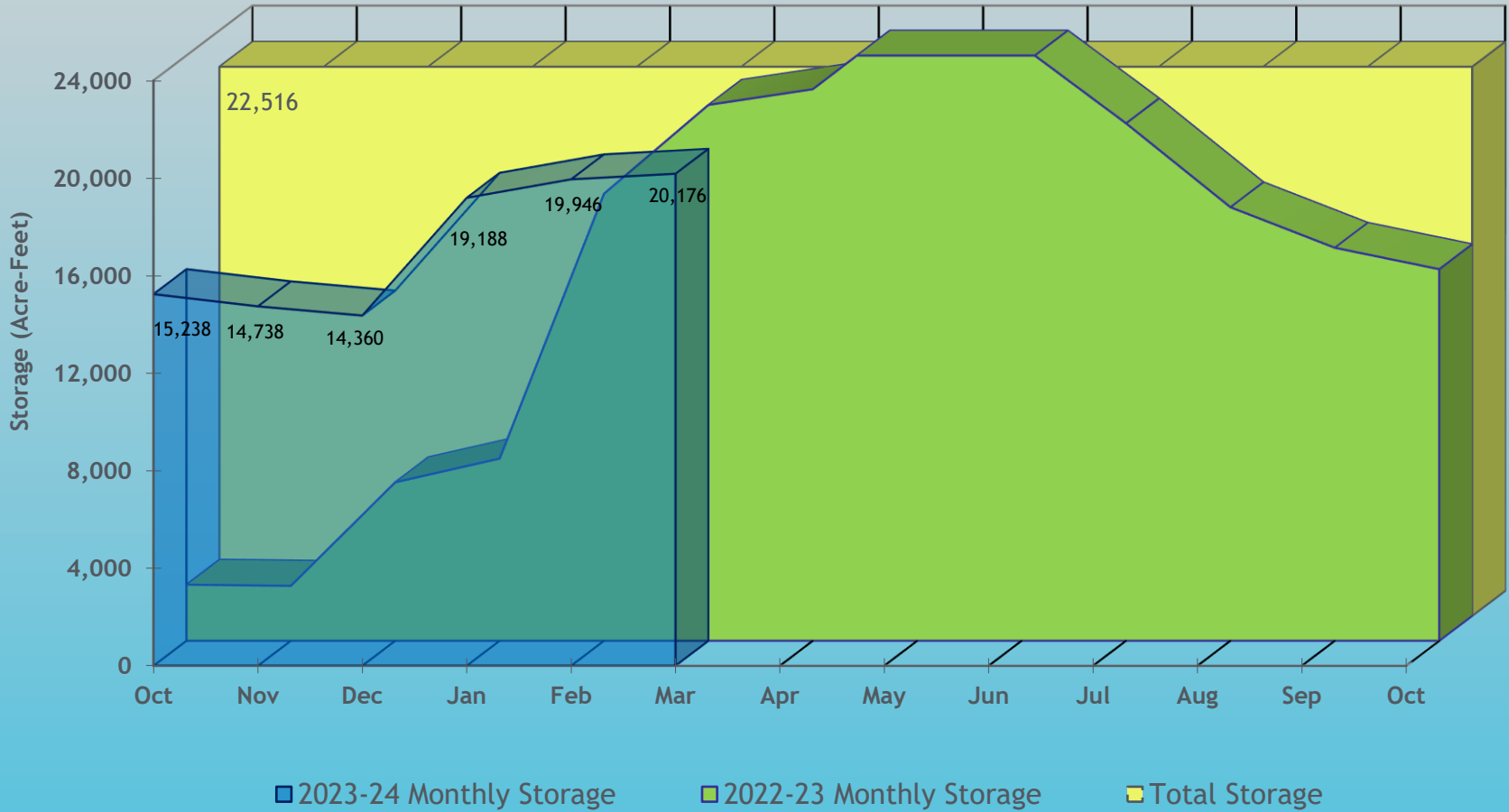
■ 2022-23 Monthly Storage

■ Total Storage

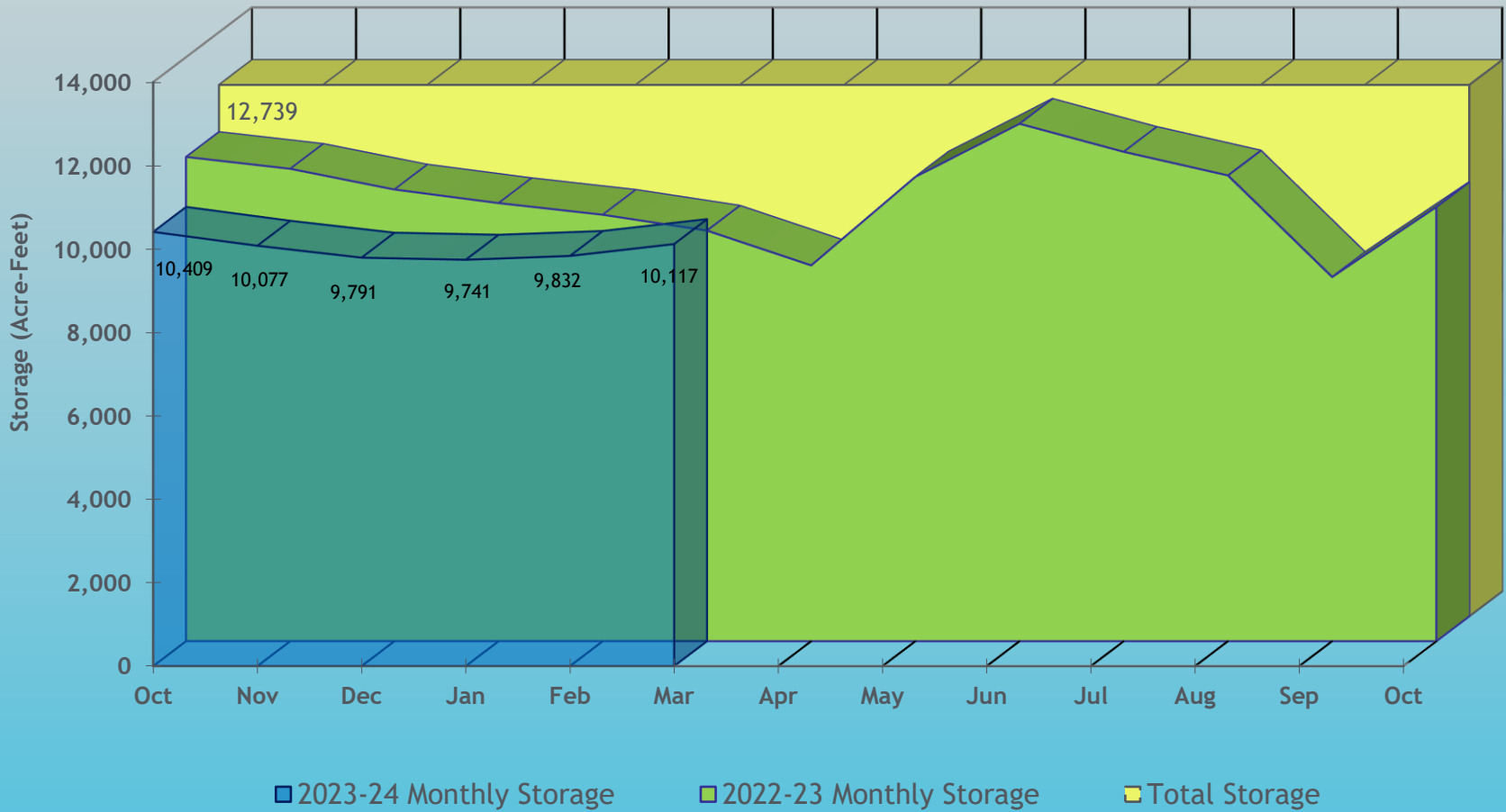
# Loveland Greeley Reservoir (District 4, Big Thompson River - Agricultural)



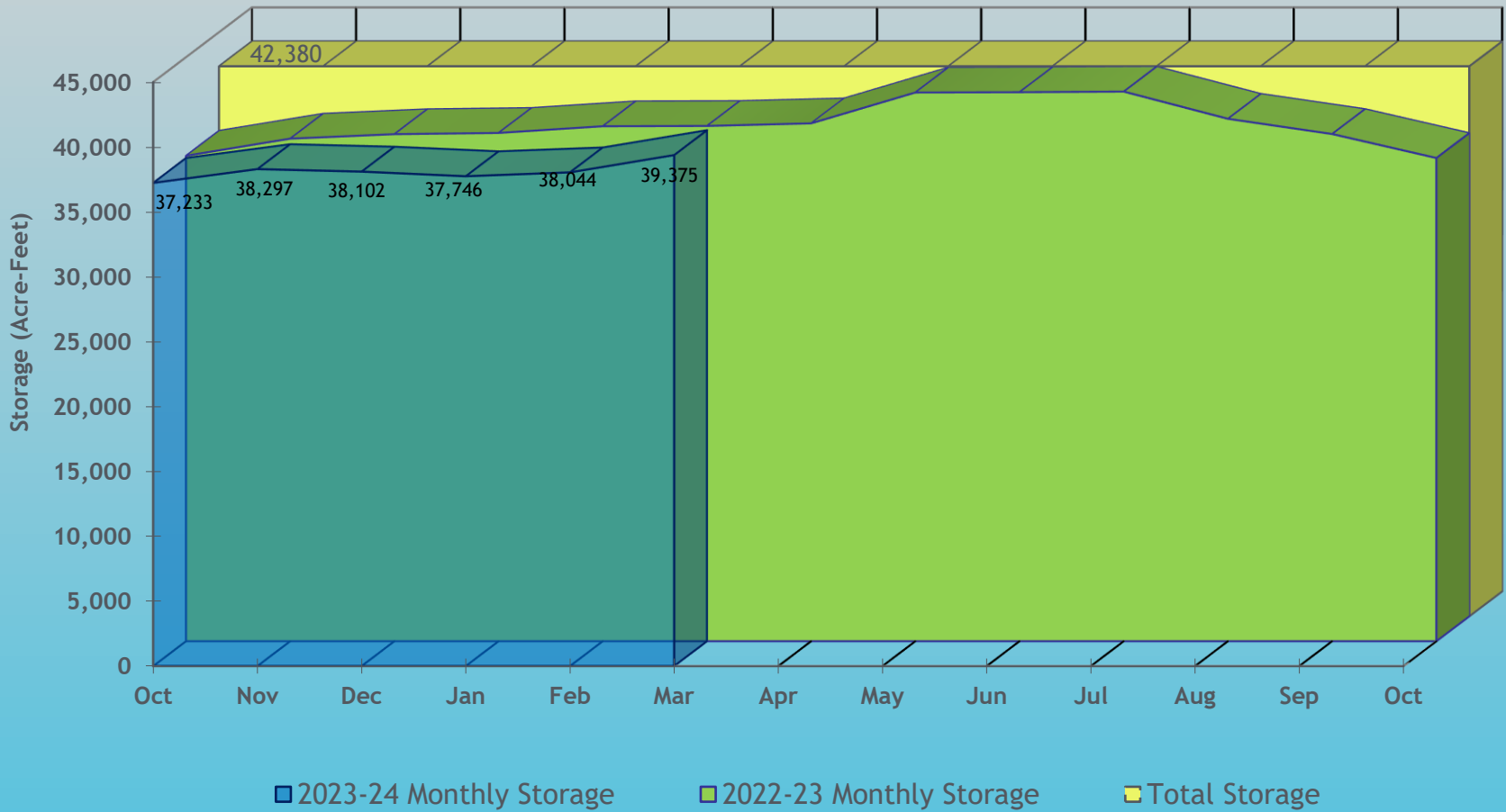
# Milton Reservoir (District 2 - Agricultural)



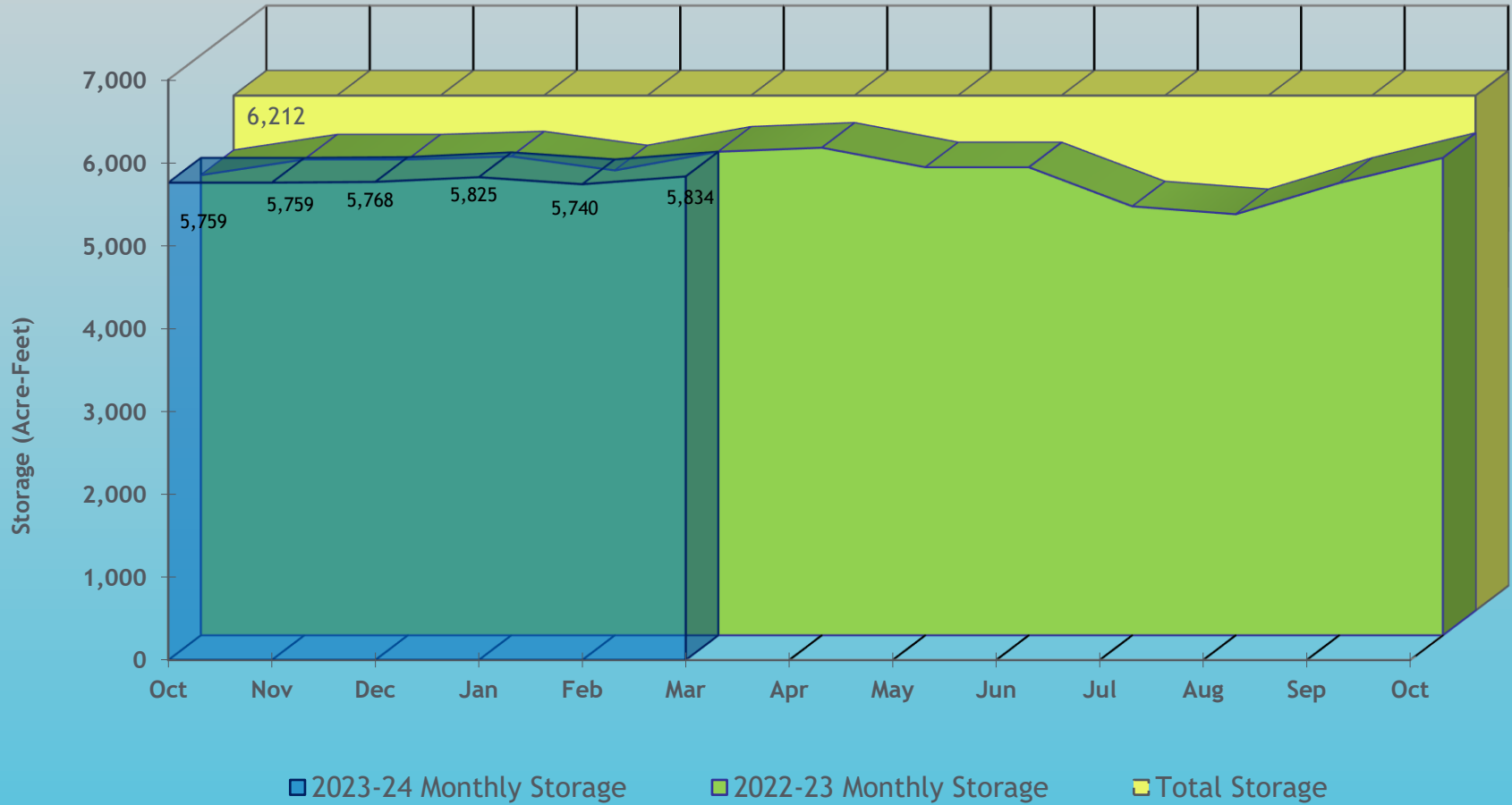
# Union Reservoir (District 5, St. Vrain Creek - Agricultural)



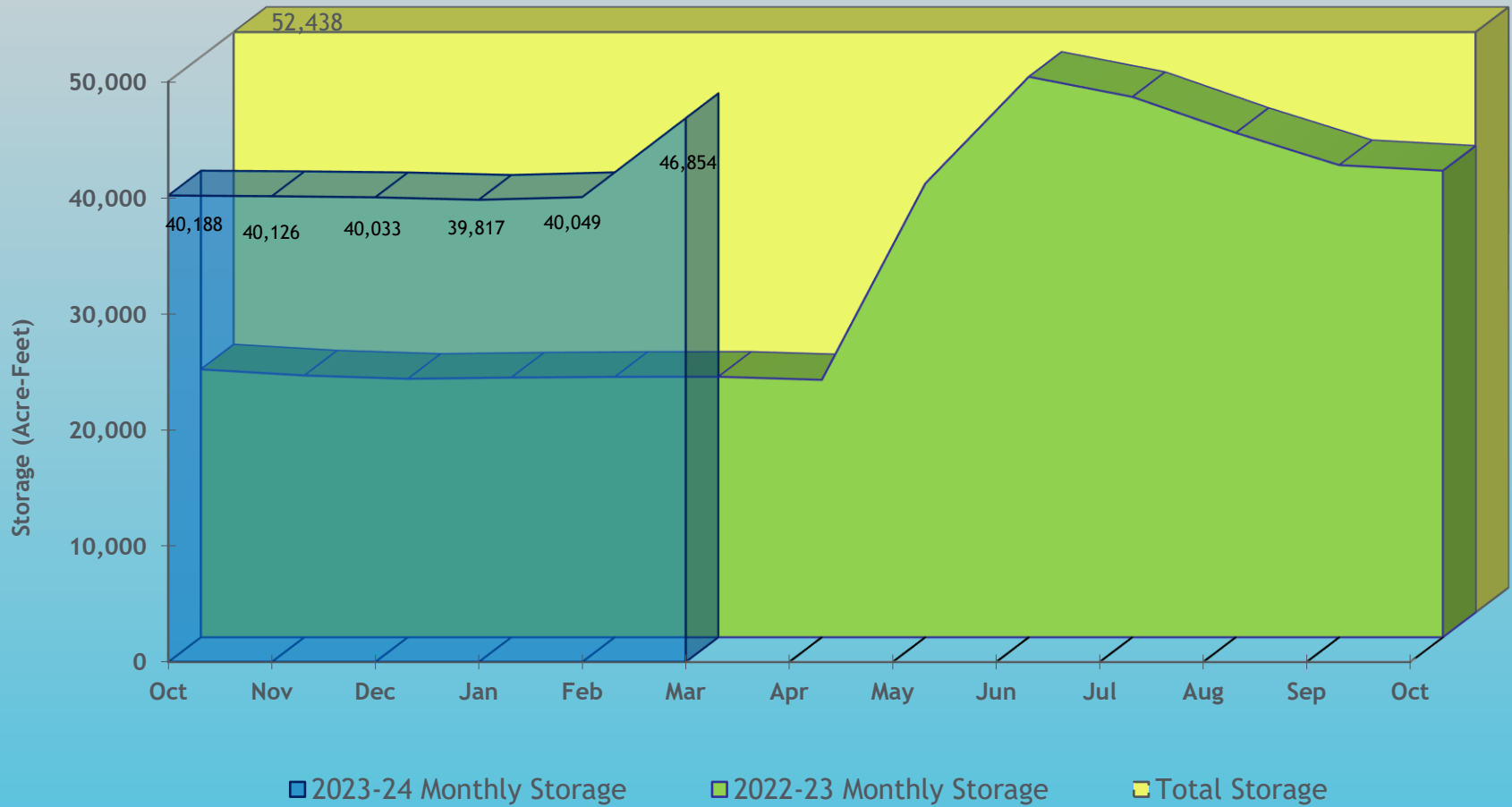
# Standley Lake (Agricultural)



# Lower Latham Reservoir (District 2 - Agricultural)

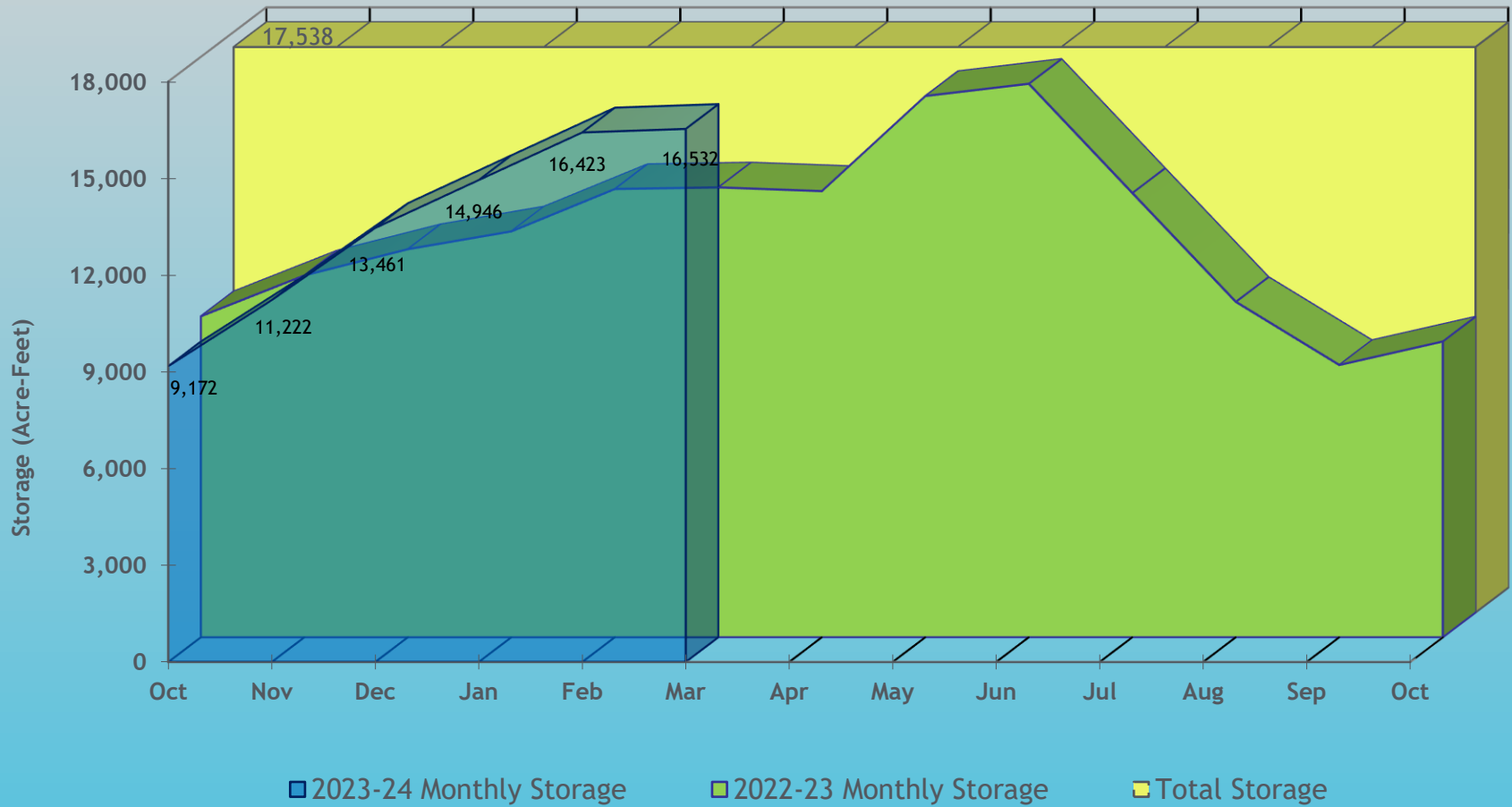


# Boyd Lake (District 4, Big Thompson River - Agricultural)

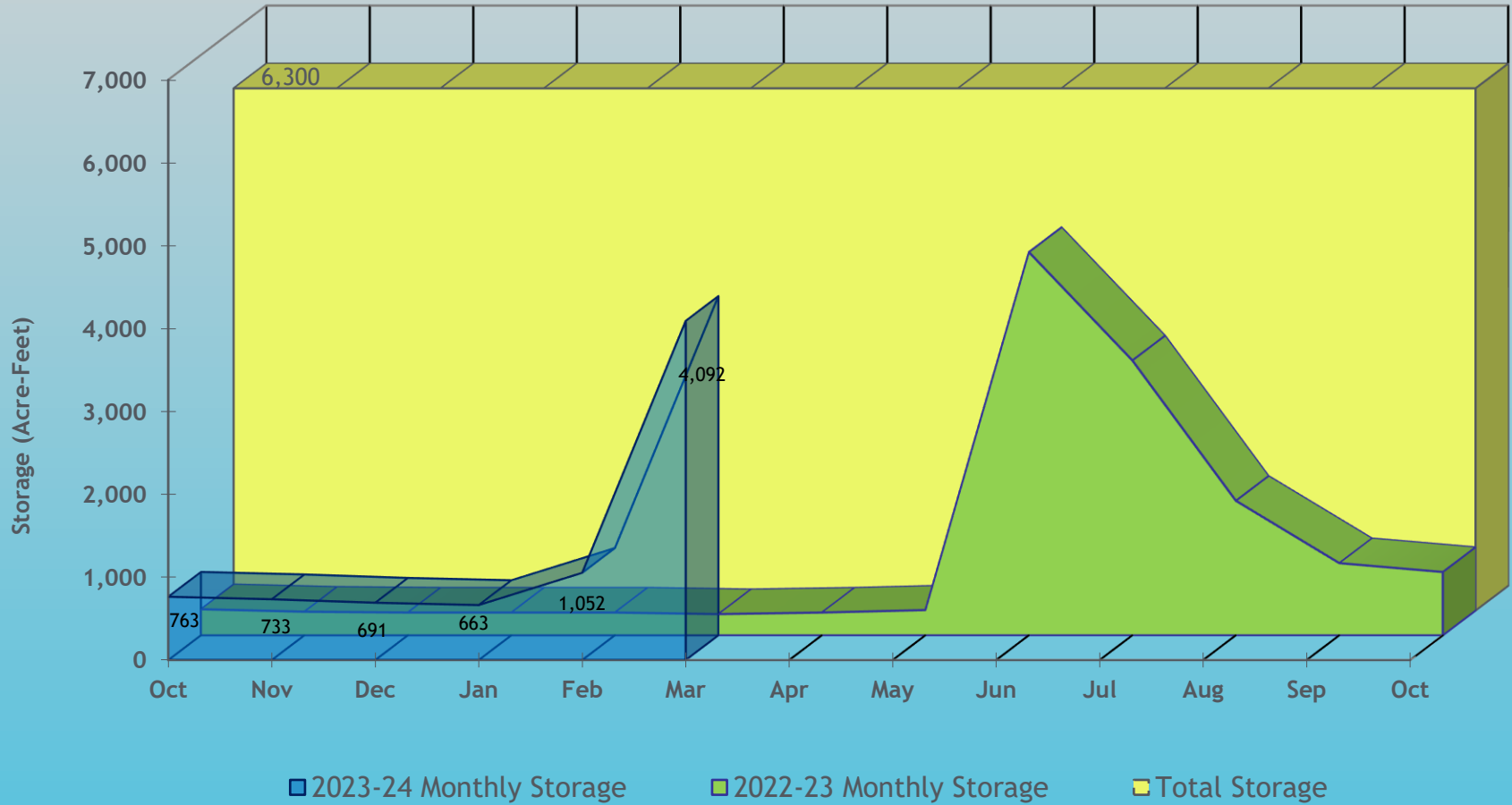




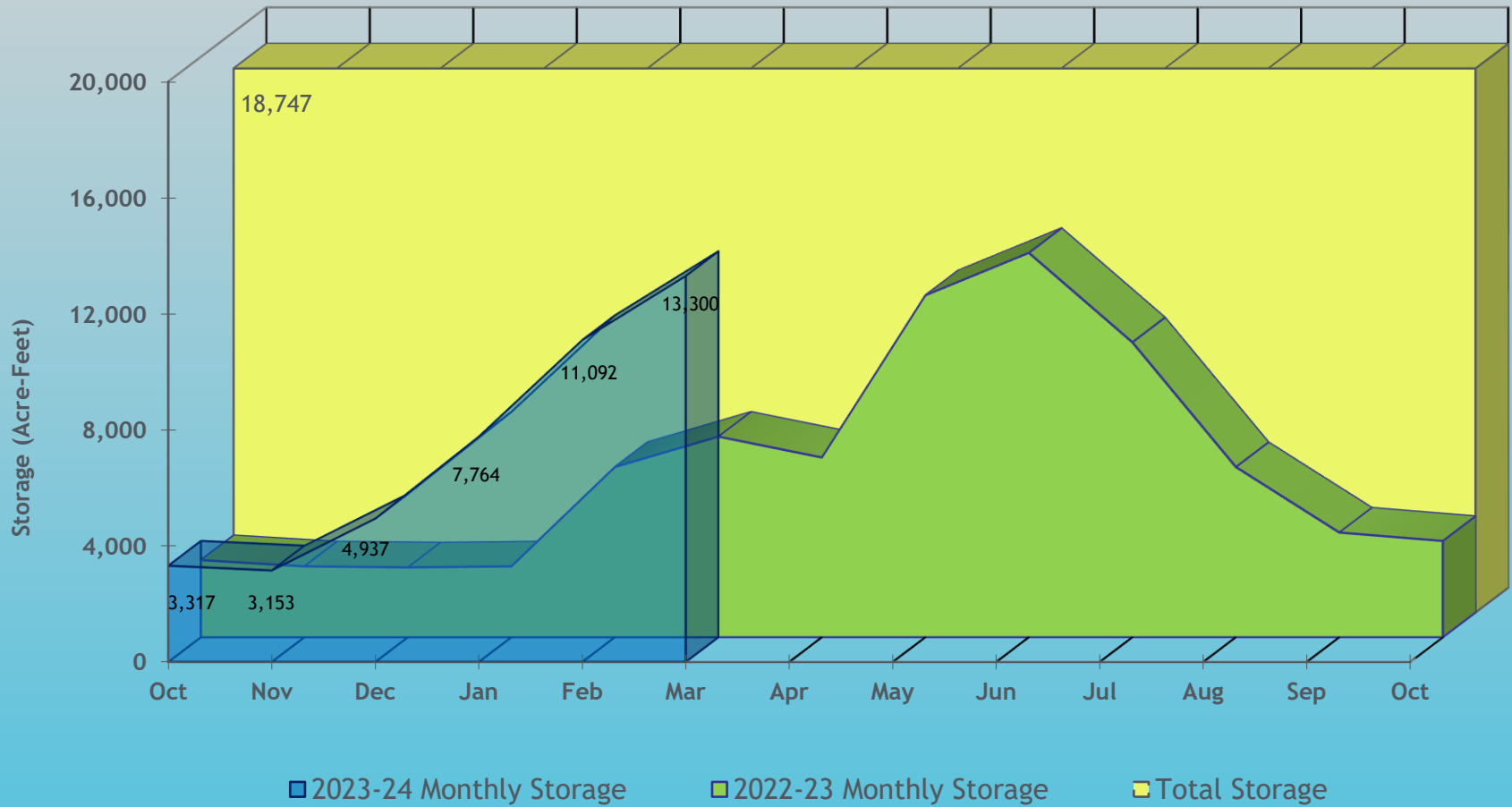
# Windsor Reservoir (District 3, Poudre River - Agricultural)



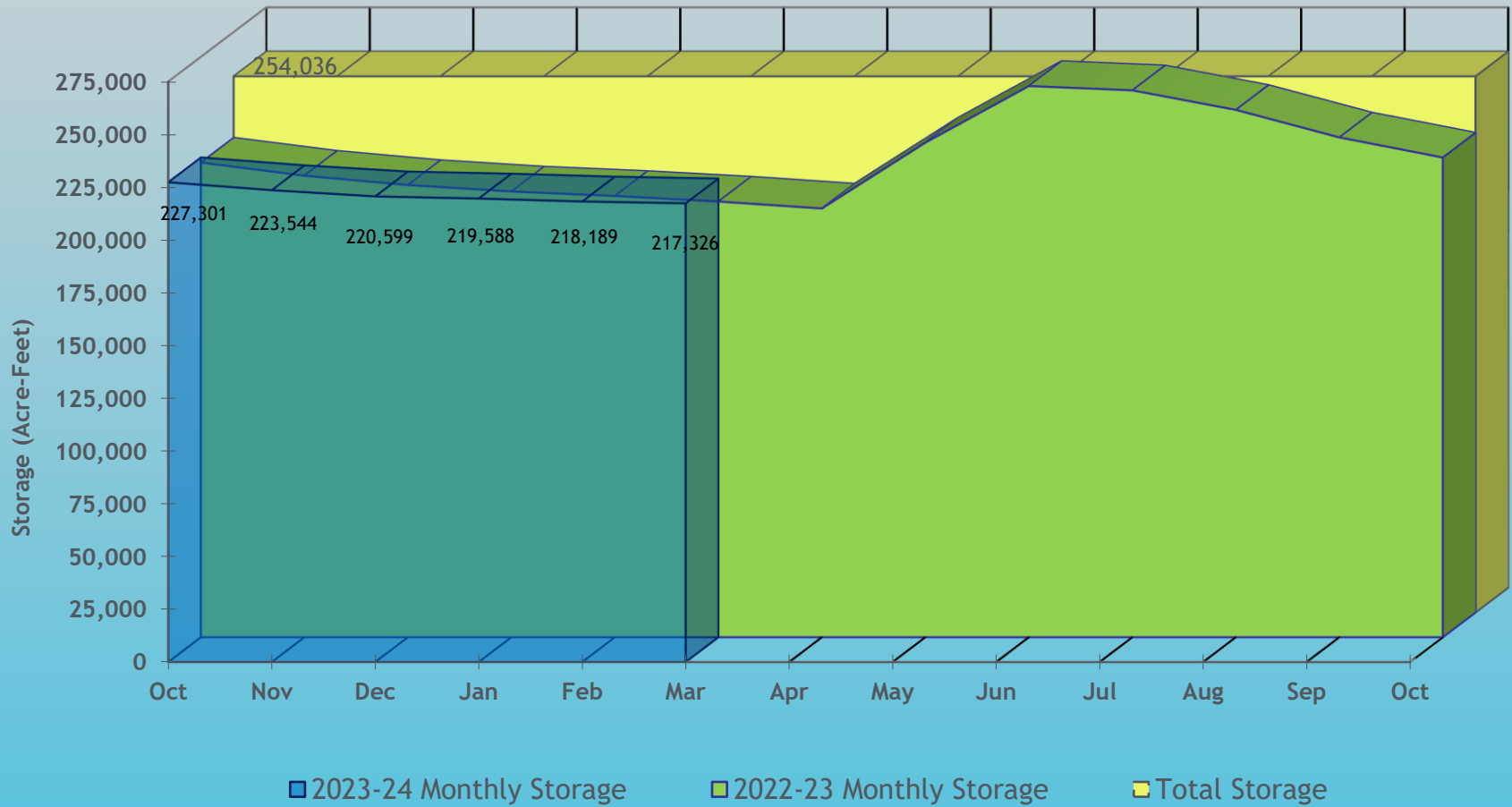
# Prospect Reservoir (District 1 - Agricultural)



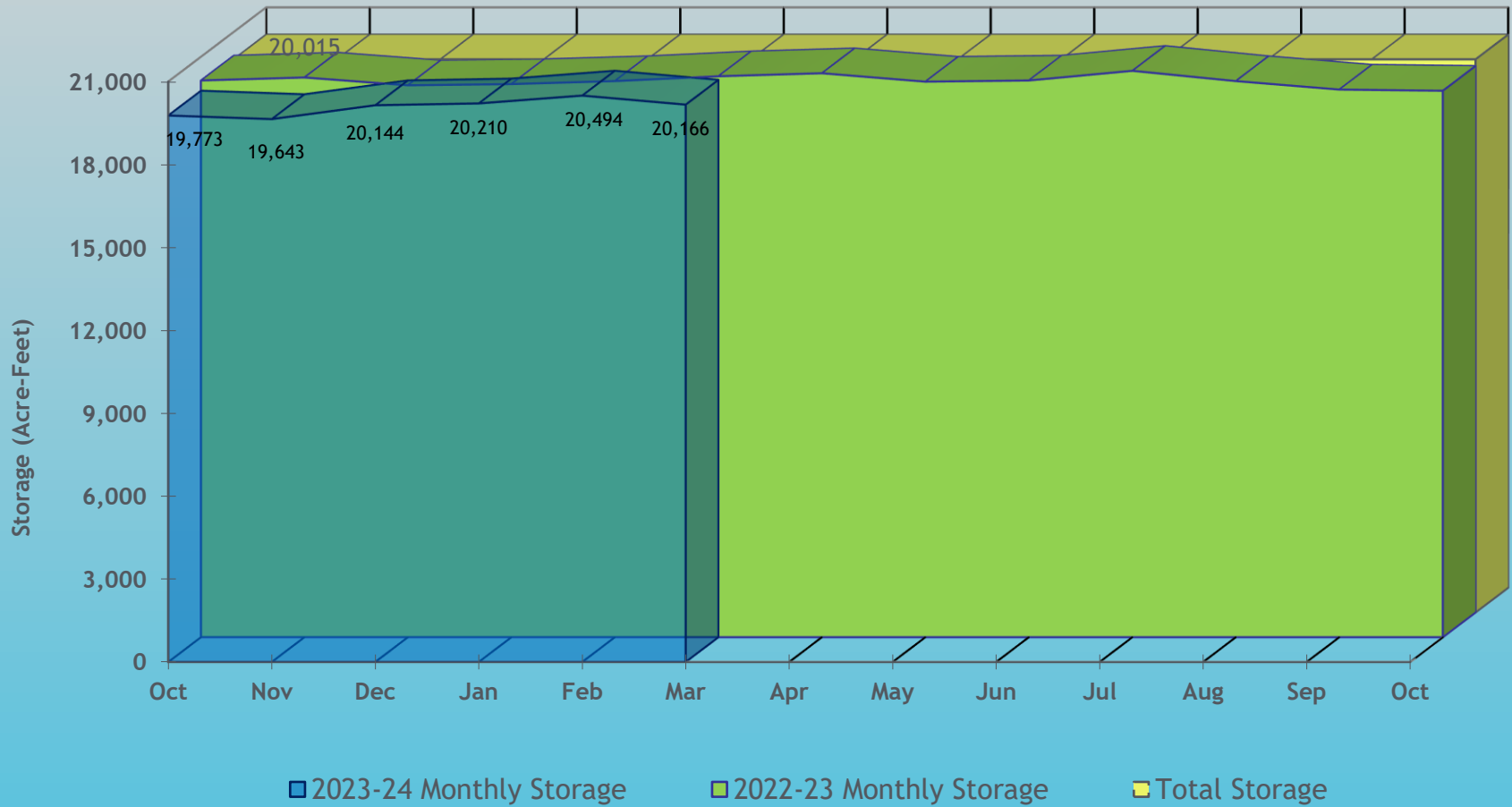
# Horse Creek Reservoir (District 1 - Agricultural)



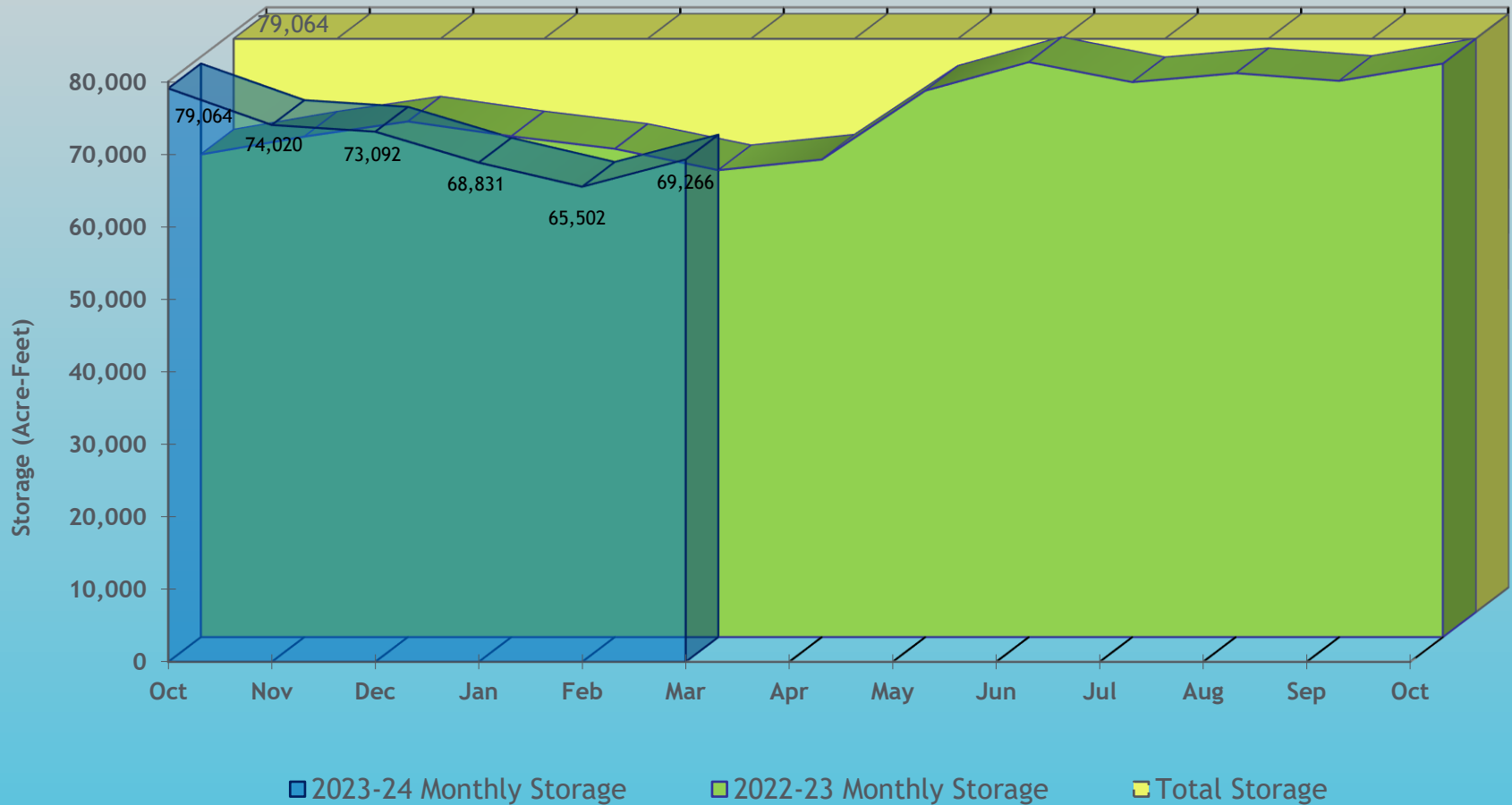
# Dillon Reservoir (District 1 - Municipal)



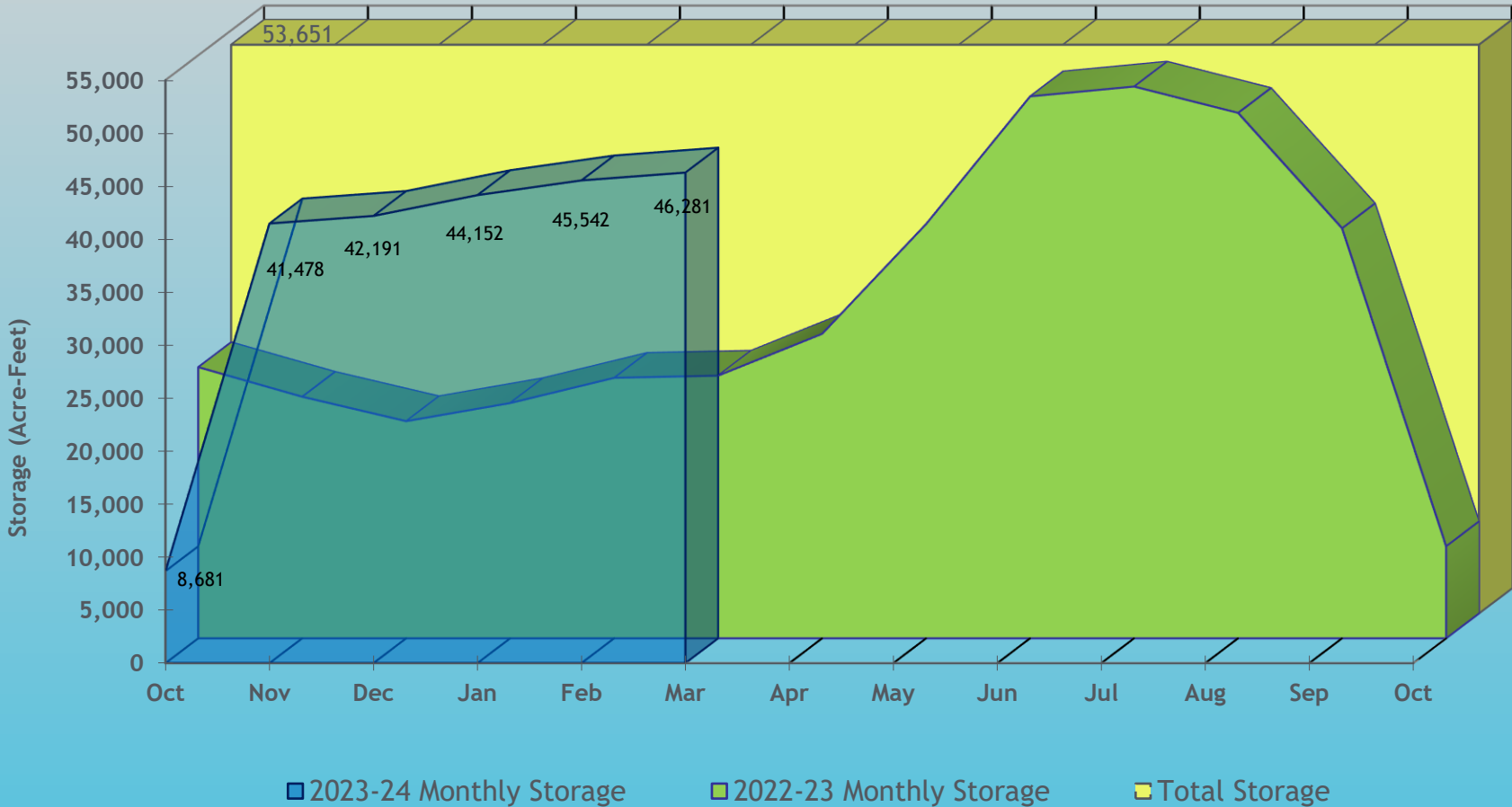
# Antero Reservoir (District 23 - Municipal)



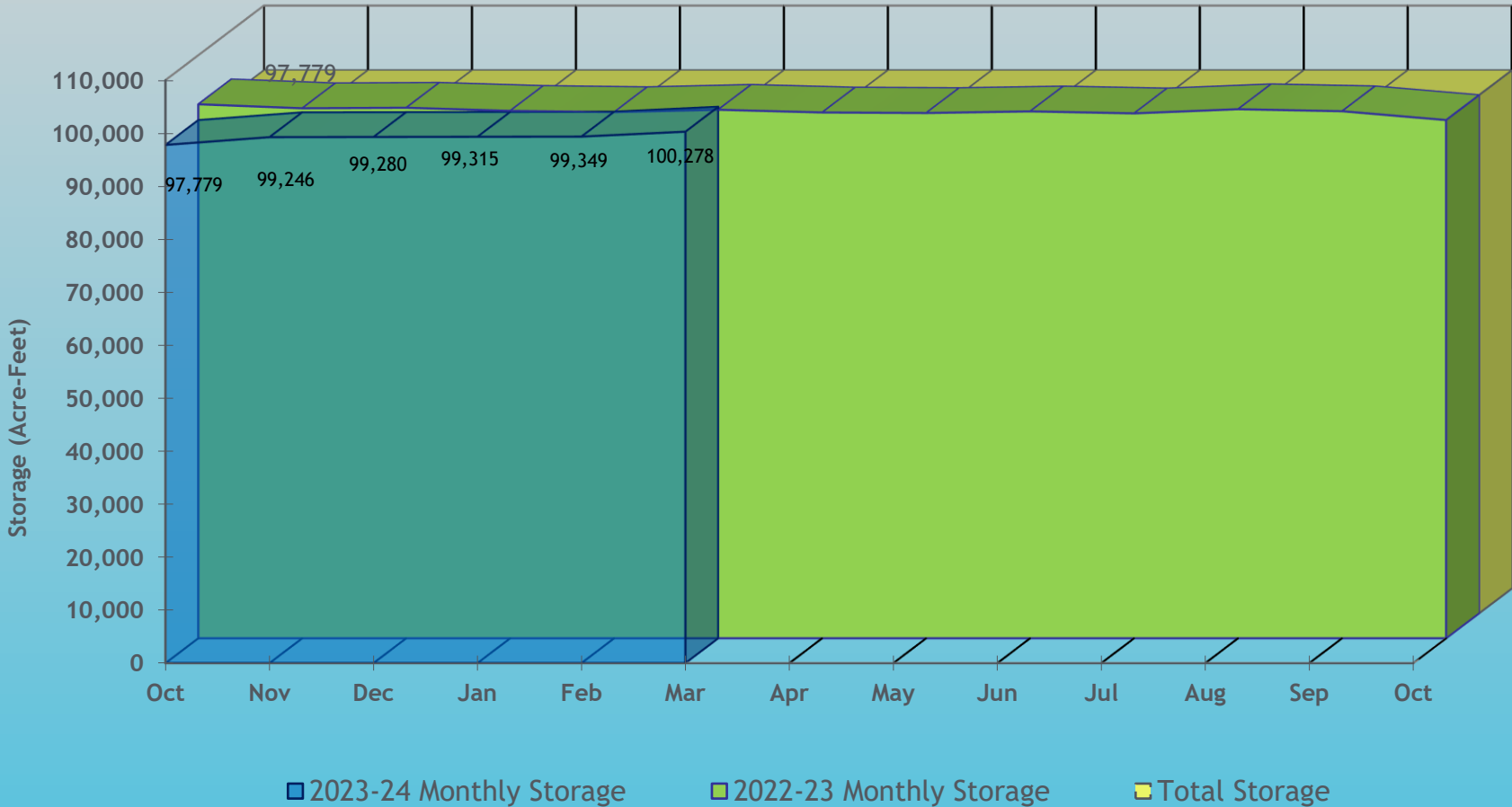
# Cheesman Reservoir (District 80 - Municipal)



# Spinney Mountain Reservoir (District 23 - Municipal)



# Eleven Mile Reservoir (District 23 - Municipal)





# Lake Granby

