



**COLORADO**  
Department of Natural Resources

## South Platte Summary November 2014

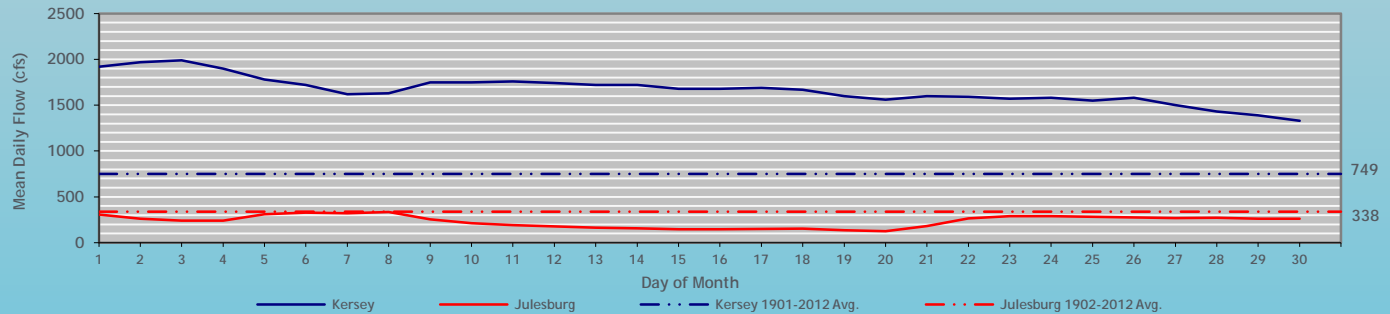
Compiled by Lee Cunning, P.E.

# COLORADO DIVISION OF WATER RESOURCES, DIVISION 1

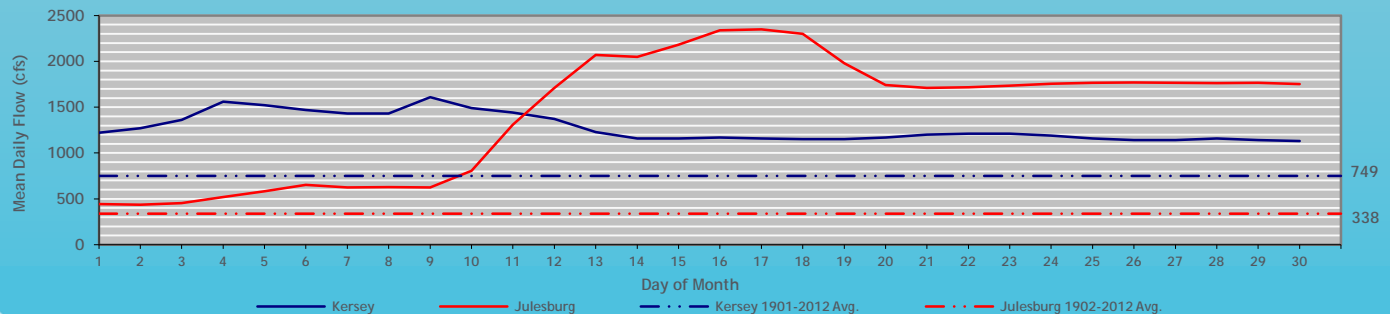
## MONTH OF November 2014

| 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                              | 18,137                     | 18,547                   | 64       | 410                           | 2%  | 82%                                  | 81%   | 0                     |
| VINSTERLING | 73,730                              | 65,083                     | 71,873                   | 64       | 6,790                         | 10%   | 97%                                  | 50%   | 0                     |
| PREWITT     | 28,500                              | 24,536                     | 22,721                   | 64       | -1,815                        | -7%   | 80%                                  | 84%   | 0                     |
| JACKSON     | 27,257                              | 23,422                     | 24,641                   | 1        | 1,219                         | 5%  | 90%                                  | 44%   | 0                     |
| EMPIRE      | 37,700                              | 20,526                     | 23,629                   | 1        | 3,103                         | 15%   | 63%                                  | 56%   | 0                     |
| RIVERSIDE   | 63,113                              | 45,781                     | 53,231                   | 1        | 7,450                         | 16%   | 84%                                  | 70%   | 0                     |
| BARR LAKE   | 32,152                              | 1,961                      | 7,231                    | 2        | 5,270                         | 269%  | 22%                                  | 67%   | 0                     |
| CHEESMAN    | 79,064                              | 76,786                     | 75,812                   | 80       | -974                          | -1%   | 96%                                  | 97%   | 0                     |
| ELEVEN MILE | 97,779                              | 99,418                     | 99,280                   | 23       | -138                          | 0%  | 100%                                 | 100%  | 1,501                 |
| SPINNEY     | 53,651                              | 47,597                     | 47,199                   | 23       | -398                          | -1%   | 88%                                  | 92%   | 0                     |
| ANTERO      | 20,015                              | 15,954                     | 16,033                   | 23       | 79                            | 0%  | 80%                                  | 91%   | 0                     |

KERSEY and JULESBURG  
November 2013

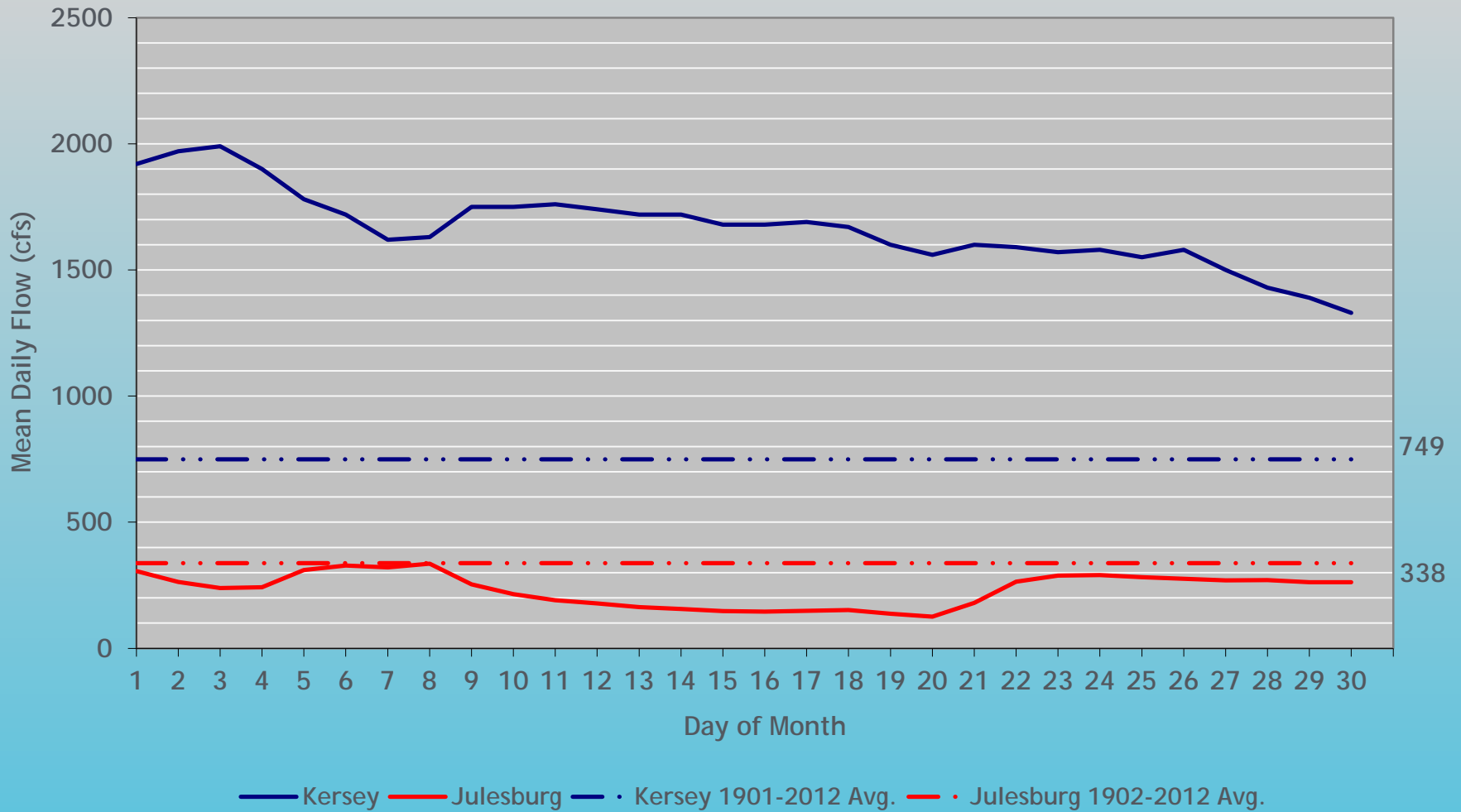


KERSEY and JULESBURG  
November 2014

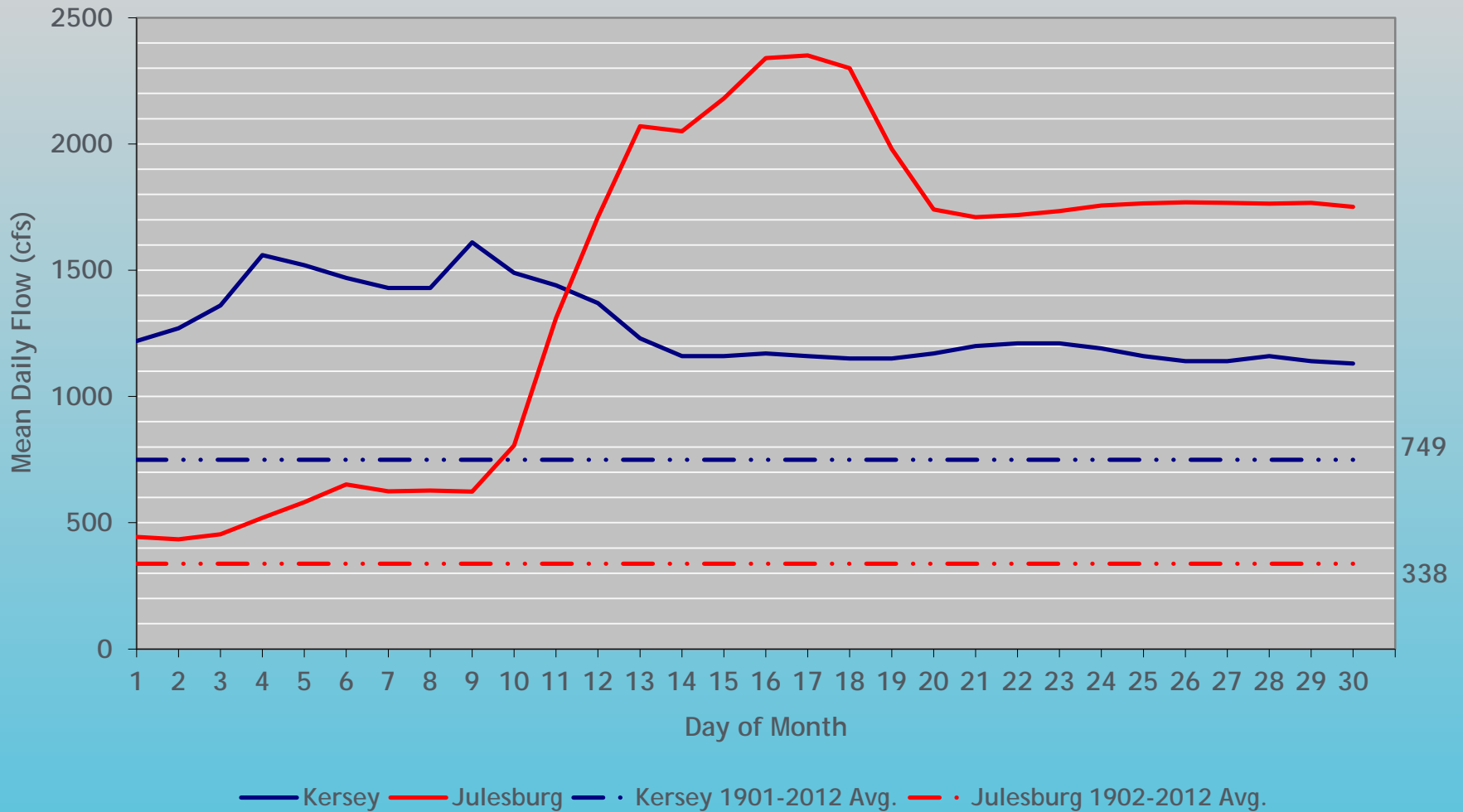


| RIVER GAGES                       | MEAN DAILY FLOW (CFS) |
|-----------------------------------|-----------------------|
| <b>KERSEY</b>                     | <b>1273</b>           |
| <b>JULESBURG</b>                  | <b>1443</b>           |
| <b>THIS MONTH LAST YEAR</b>       |                       |
| <b>KERSEY</b>                     | <b>1666</b>           |
| <b>JULESBURG</b>                  | <b>233</b>            |
| <b>MEAN FOR PERIOD OF RECORD*</b> |                       |
| <b>KERSEY</b>                     | <b>749</b>            |
| <b>JULESBURG</b>                  | <b>338</b>            |
| *Kersey 1901 - 2013               |                       |
| *Julesburg 1902 - 2013            |                       |

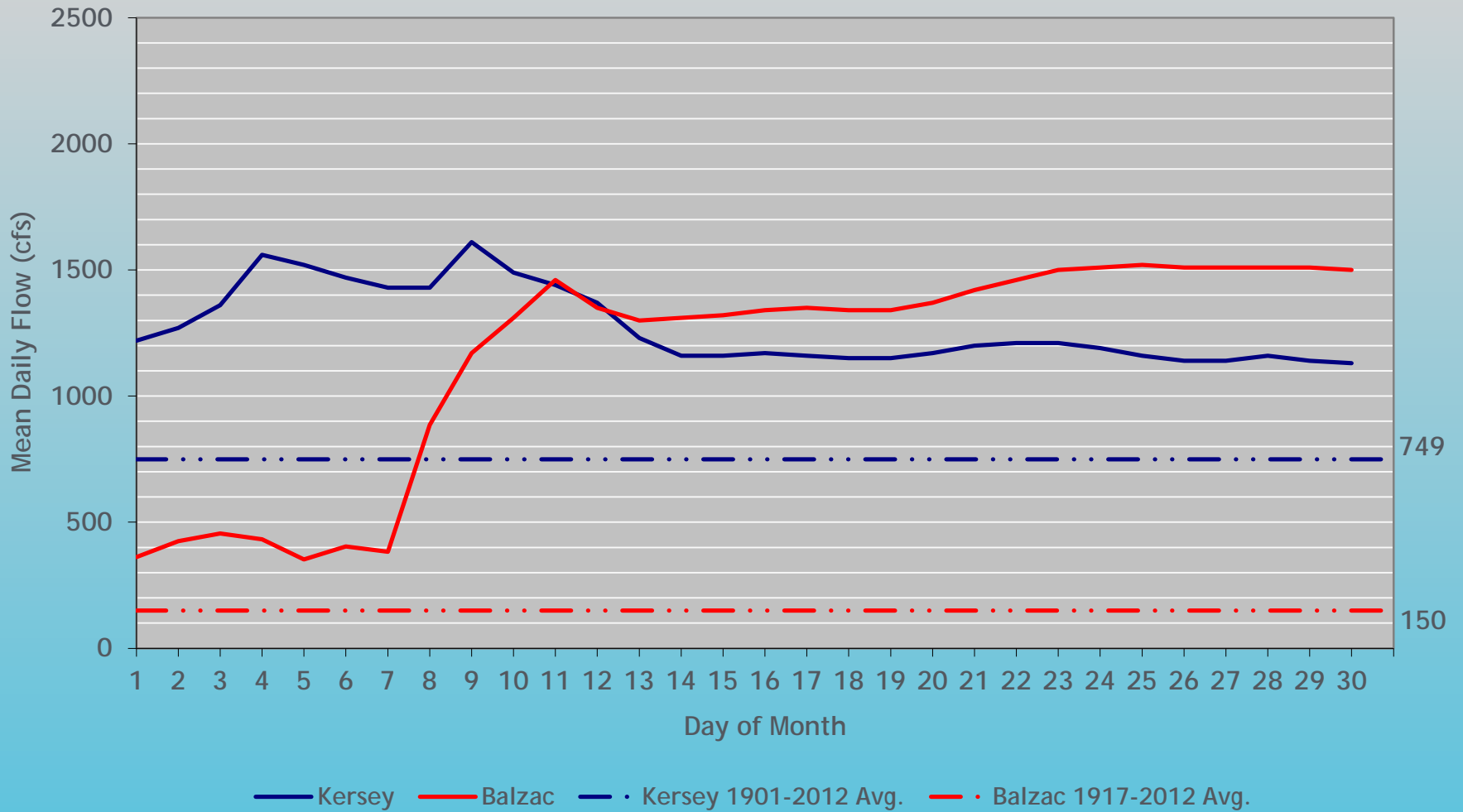
# KERSEY and JULESBURG November 2013



# KERSEY and JULESBURG November 2014



# KERSEY and BALZAC November 2014



## South Platte River Monthly Stream Flow (cfs) Statistics

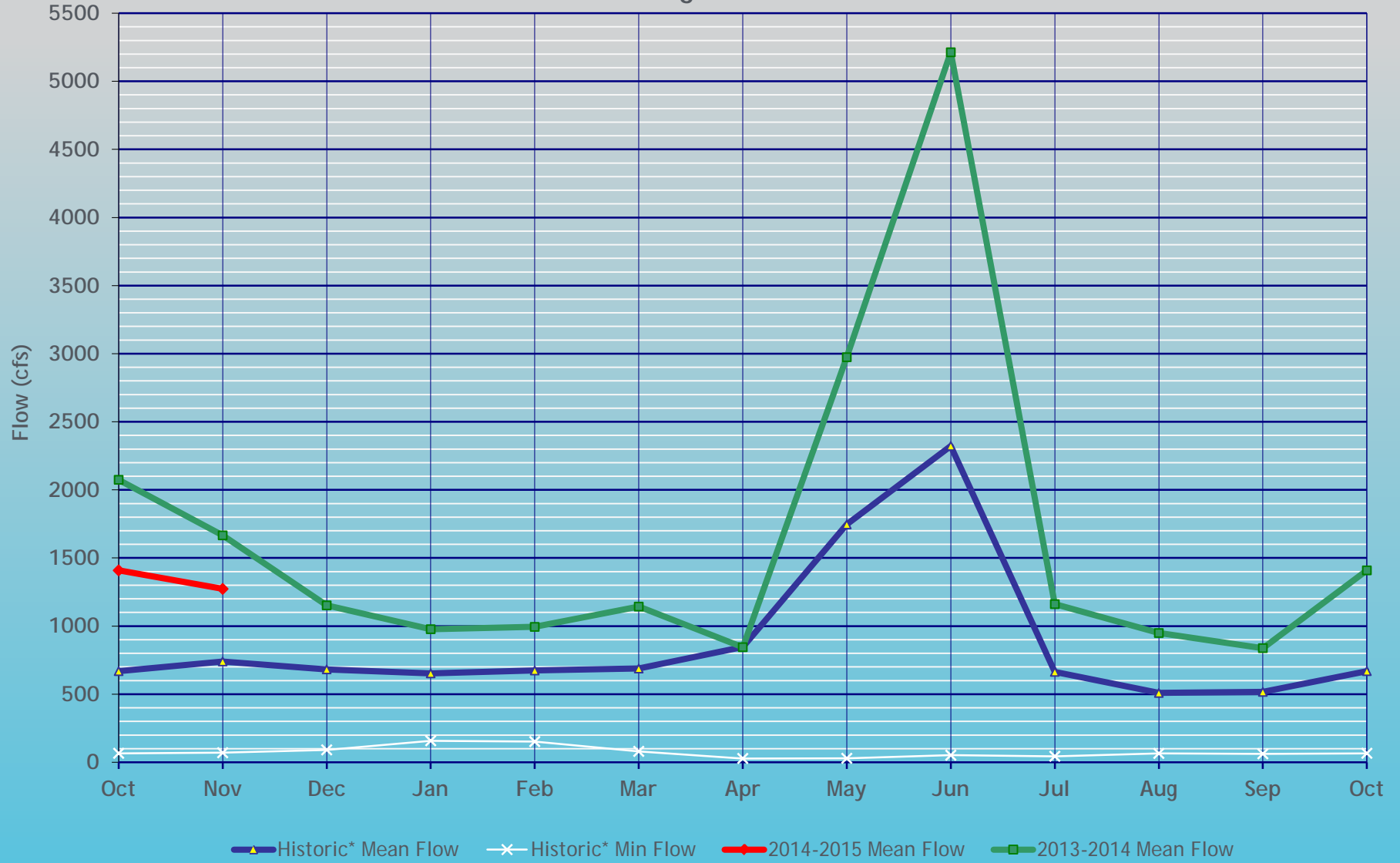
| South Platte River at Kersey |                        |                       |      |                       |      |                                    | South Platte River at Julesburg |                        |                       |      |                       |      |                                    |
|------------------------------|------------------------|-----------------------|------|-----------------------|------|------------------------------------|---------------------------------|------------------------|-----------------------|------|-----------------------|------|------------------------------------|
| Month                        | Historic*<br>Mean Flow | Historic*<br>Max Flow | Year | Historic*<br>Min Flow | Year | IY 2015<br>Mean<br>Monthly<br>Flow | Month                           | Historic*<br>Mean Flow | Historic*<br>Max Flow | Year | Historic*<br>Min Flow | Year | IY 2015<br>Mean<br>Monthly<br>Flow |
| Oct                          | 669                    | 6180                  | 1984 | 66                    | 1954 | 1409                               | Oct                             | 301                    | 3130                  | 1984 | 4.2                   | 1903 | 558                                |
| Nov                          | 740                    | 3650                  | 1984 | 70                    | 1934 | 1273                               | Nov                             | 335                    | 2900                  | 1984 | 4.2                   | 1903 | 1443                               |
| Dec                          | 682                    | 1890                  | 1961 | 91                    | 1934 |                                    | Dec                             | 397                    | 1820                  | 1984 | 13                    | 2002 |                                    |
| Jan                          | 652                    | 2160                  | 1974 | 158                   | 1935 |                                    | Jan                             | 509                    | 2510                  | 1970 | 21                    | 2003 |                                    |
| Feb                          | 674                    | 3060                  | 1914 | 152                   | 1935 |                                    | Feb                             | 582                    | 3220                  | 1930 | 29                    | 2005 |                                    |
| Mar                          | 688                    | 3470                  | 1983 | 80                    | 1935 |                                    | Mar                             | 522                    | 12900                 | 1910 | 15                    | 1904 |                                    |
| Apr                          | 846                    | 18100                 | 1942 | 28                    | 1955 |                                    | Apr                             | 523                    | 14400                 | 1942 | 4.0                   | 1904 |                                    |
| May                          | 1746                   | 26100                 | 1973 | 29                    | 1955 |                                    | May                             | 1003                   | 18100                 | 1973 | 12                    | 1911 |                                    |
| Jun                          | 2323                   | 31000                 | 1921 | 52                    | 1954 |                                    | Jun                             | 1430                   | 30800                 | 1921 | 2.0                   | 1910 |                                    |
| Jul                          | 664                    | 12600                 | 1983 | 44                    | 1955 |                                    | Jul                             | 295                    | 12600                 | 1983 | 0.0                   | 1903 |                                    |
| Aug                          | 509                    | 9690                  | 1951 | 65                    | 1934 |                                    | Aug                             | 180                    | 8920                  | 1968 | 0.0                   | 1903 |                                    |
| Sep                          | 517                    | 14200                 | 1938 | 62                    | 1940 |                                    | Sep                             | 239                    | 7130                  | 1938 | 2.0                   | 1902 |                                    |
| Oct                          | 669                    | 6180                  | 1984 | 66                    | 1954 |                                    | Oct                             | 301                    | 3130                  | 1984 | 4.2                   | 1903 |                                    |

\*Period of record 1902-2012

\*Period of record 1902-2012

# South Platte River at Kersey

Irrigation Year

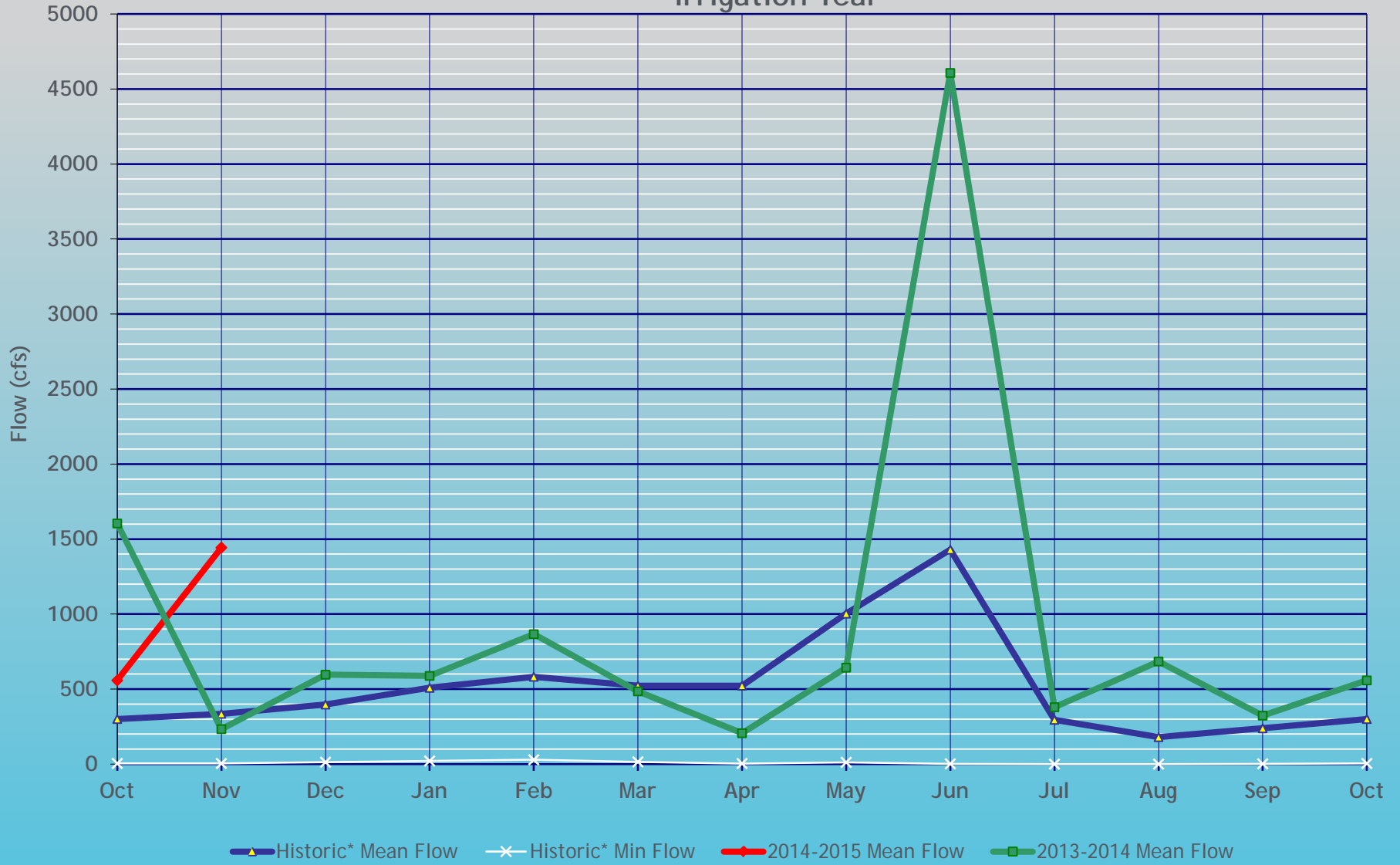


Historic\* Mean Flow (1901-2012)    Historic\* Min Flow    2014-2015 Mean Flow    2013-2014 Mean Flow

\*1901-2012

# South Platte River at Julesburg

Irrigation Year



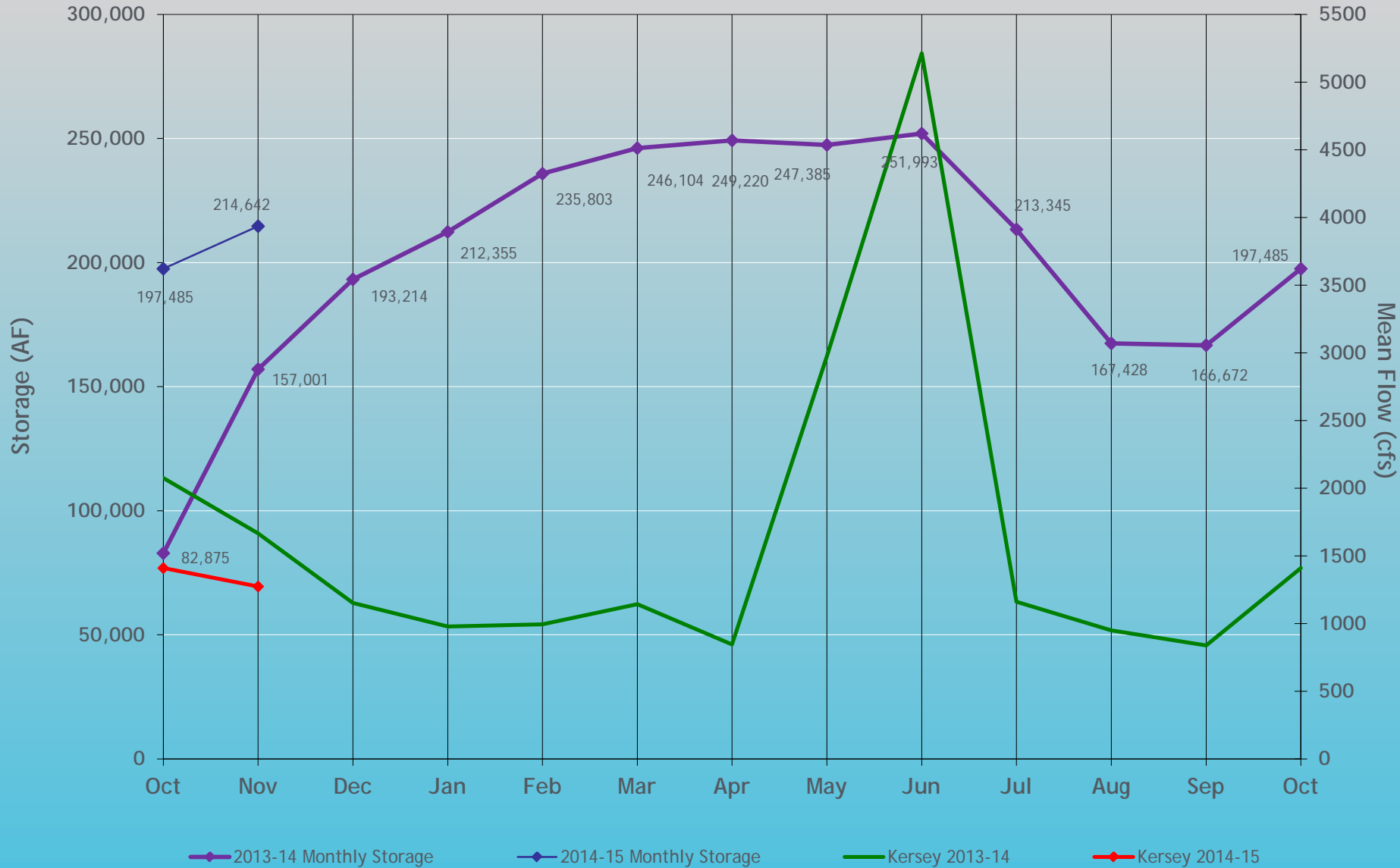
\*1901-2012





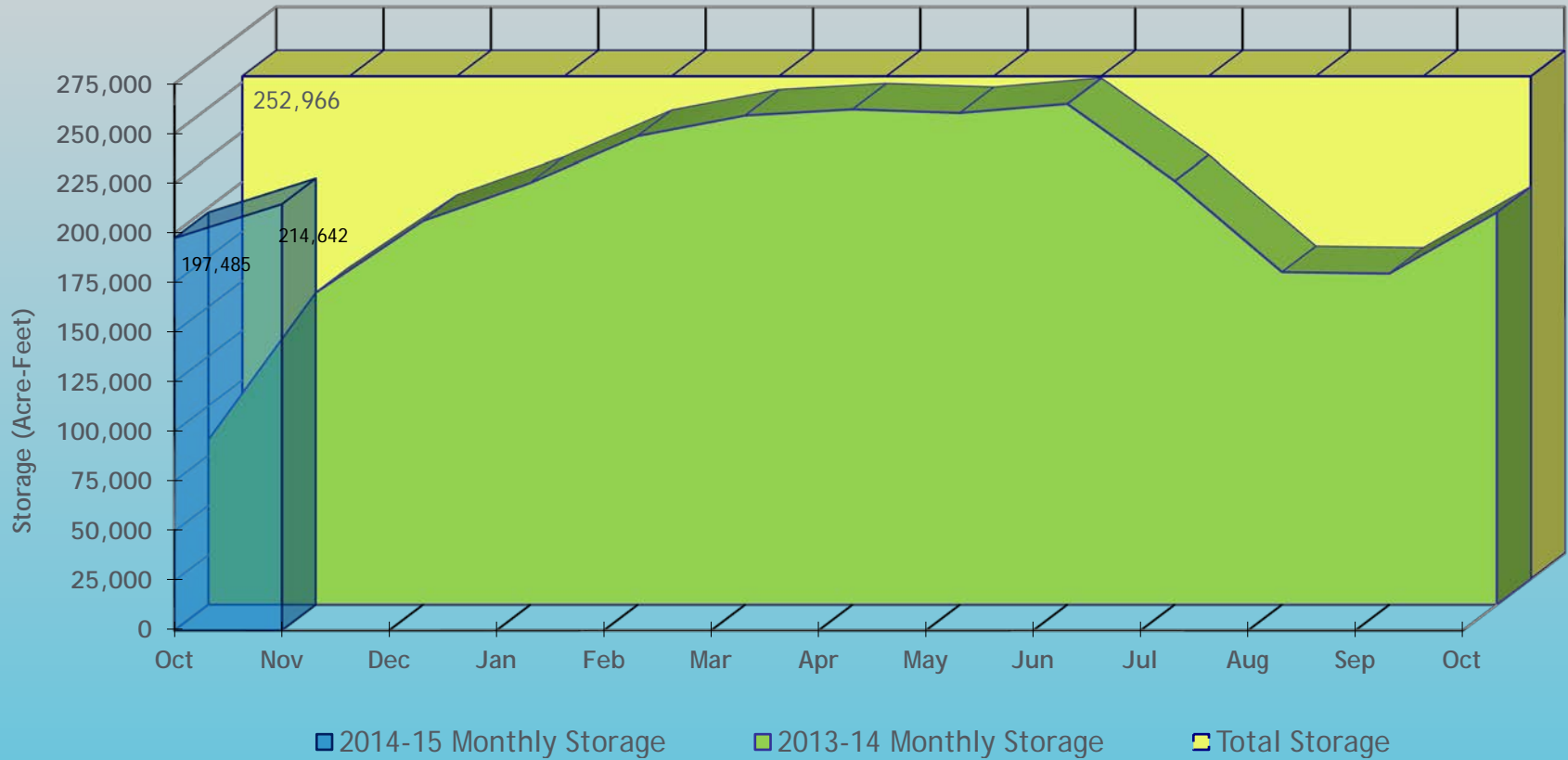
# Reservoir Storage below Kersey

Selected Reservoirs\*



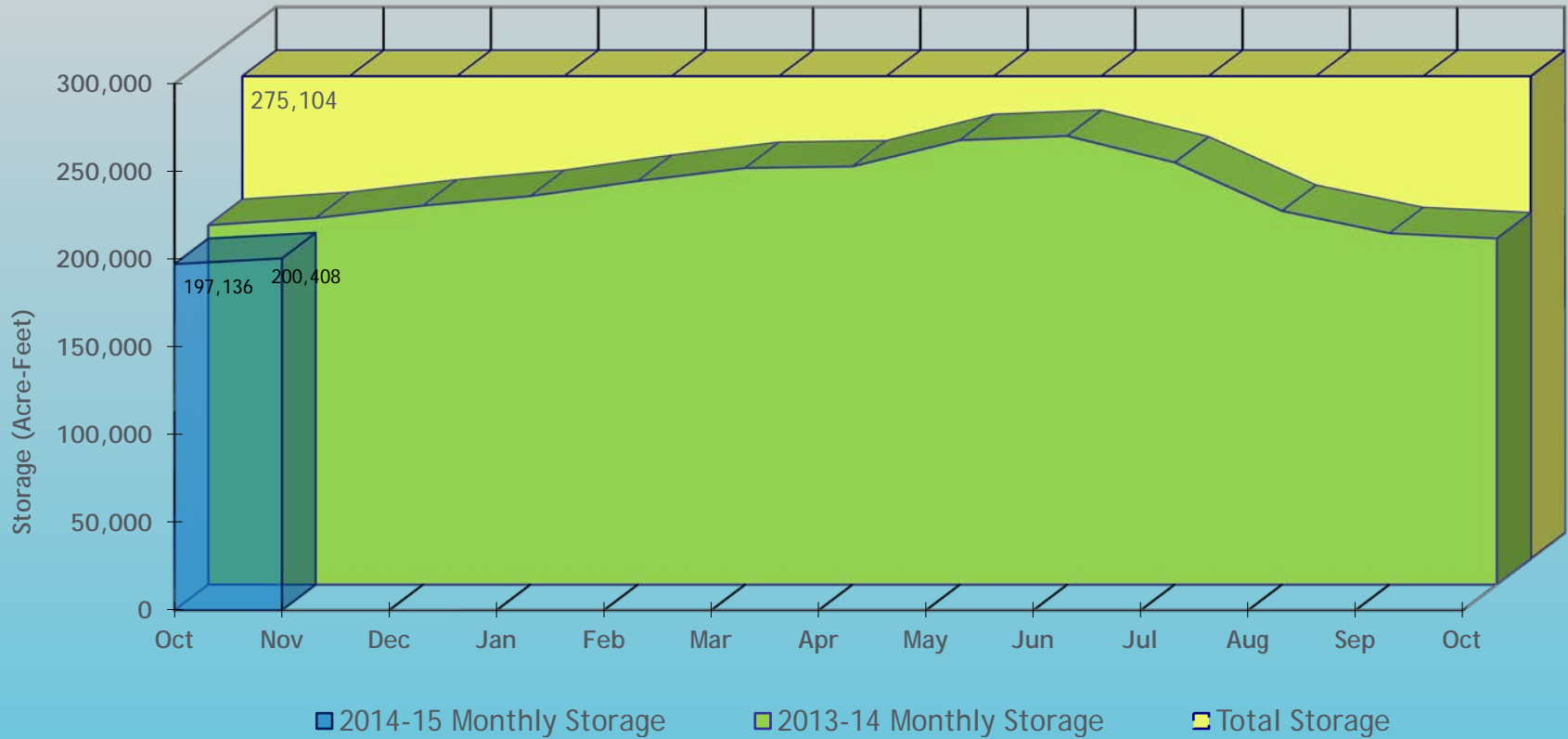
\*Empire, Riverside, Jackson, Prewitt, North Sterling, & Julesburg

# South Platte Reservoir Storage below Kersey\*



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

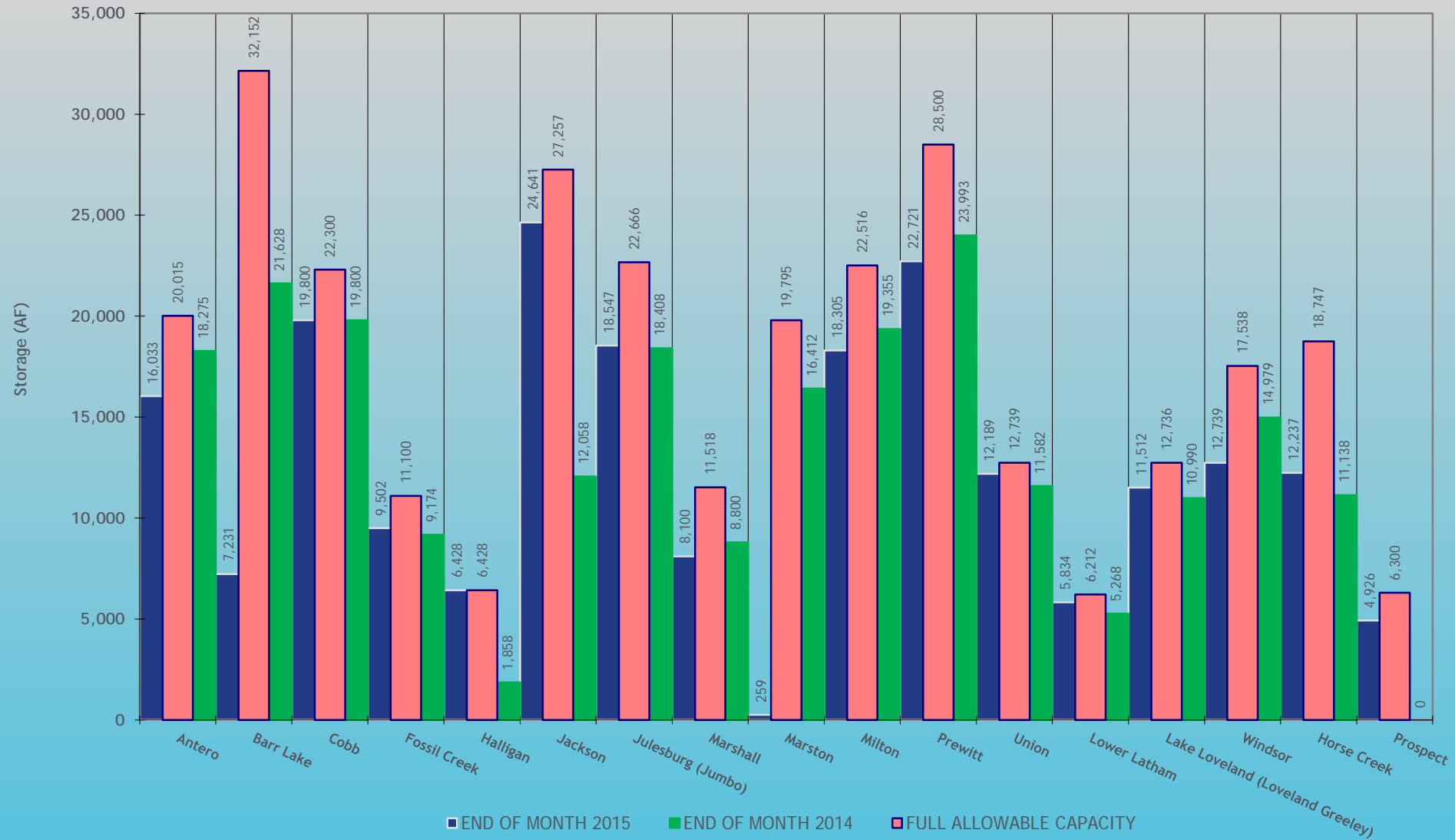
# South Platte Reservoir Storage above Kersey\*



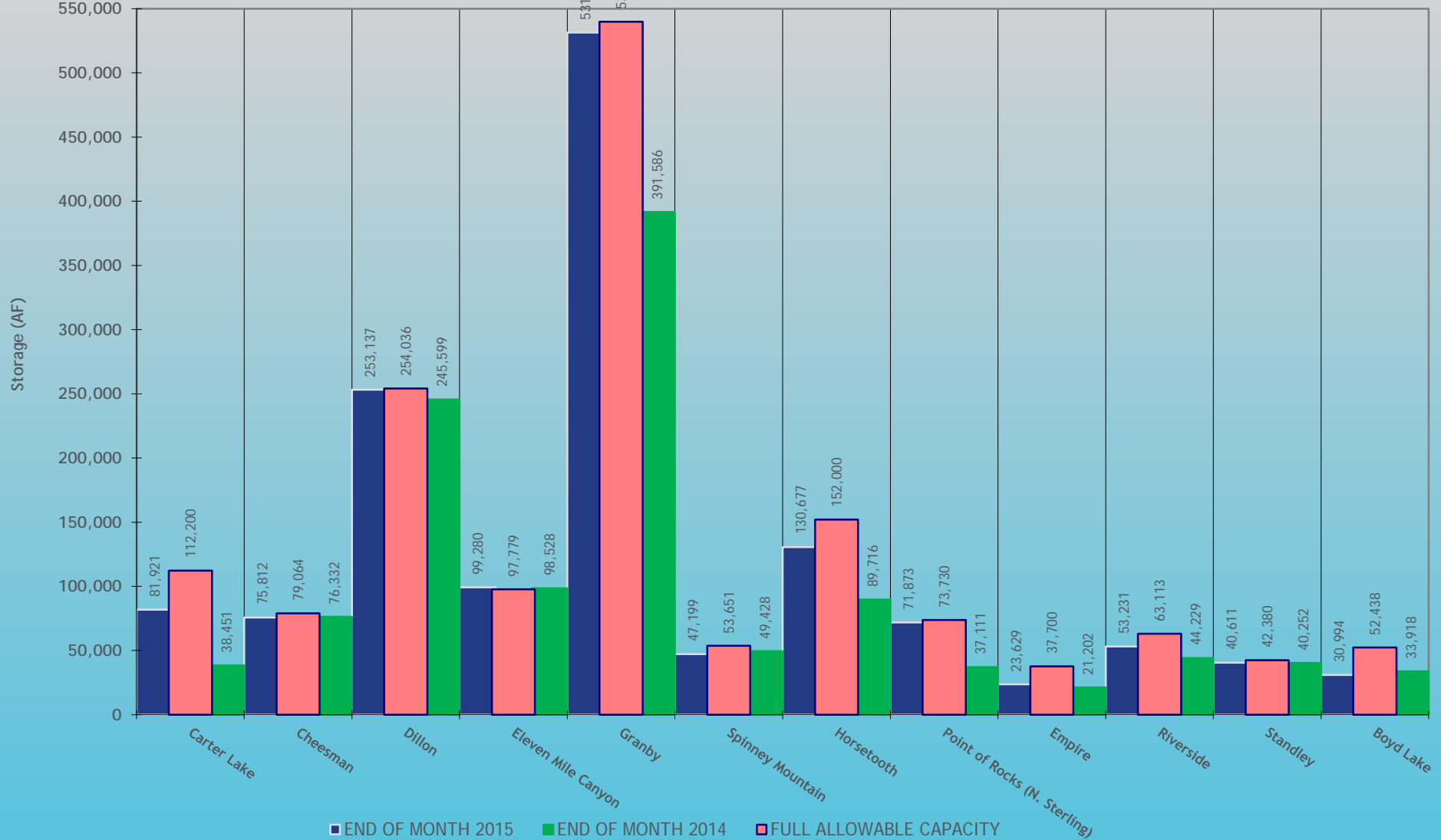
\*Barr, Cobb, Fossil Crk, Halligan, Marshall, Milton, Union, Standley, Lower Latham, Boyd, Loveland, Windsor, Horse Crk, & Prospect



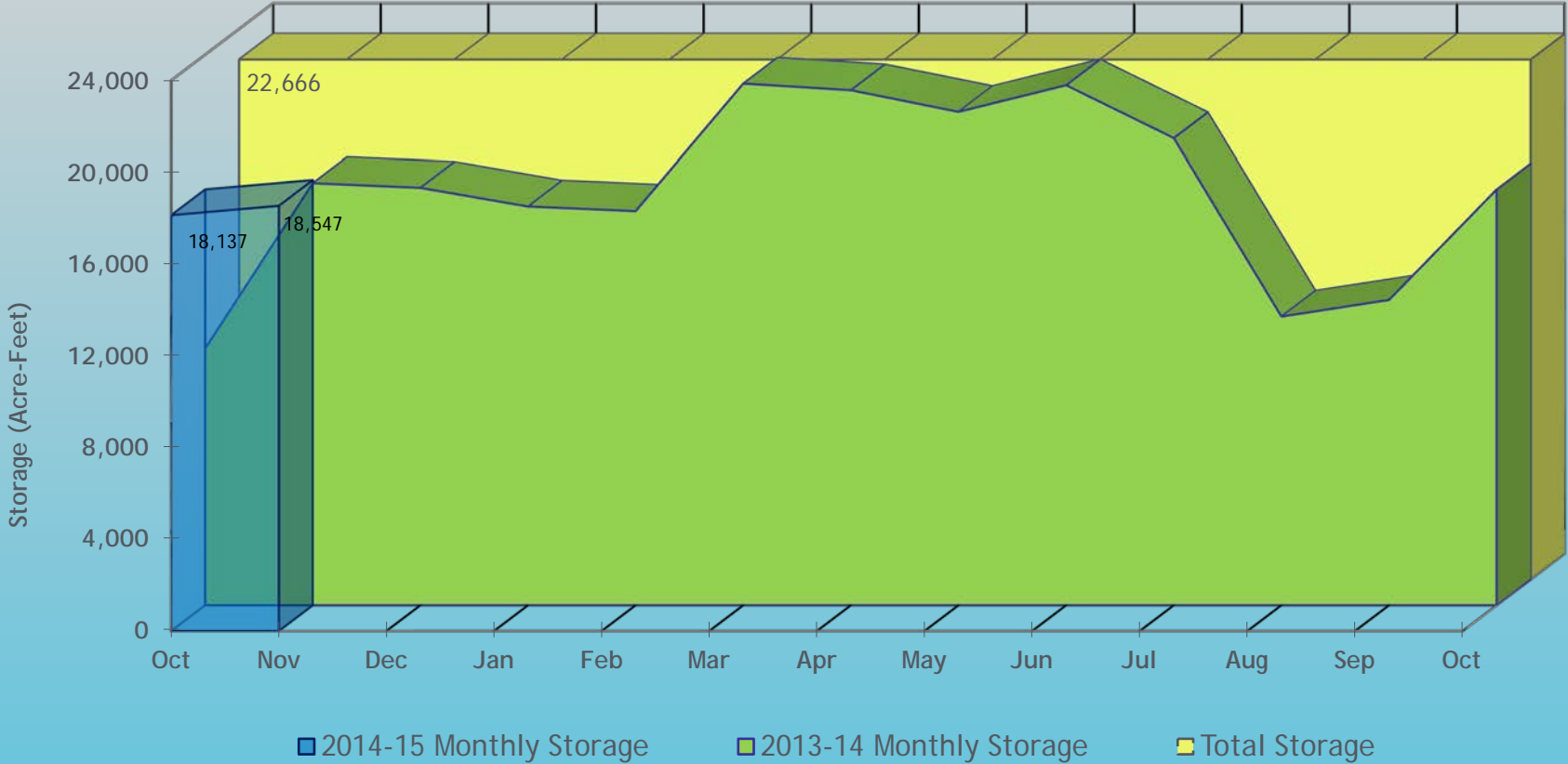
# November Reservoir Change in Storage 2014 versus 2015



# November Reservoir Change in Storage 2014 versus 2015

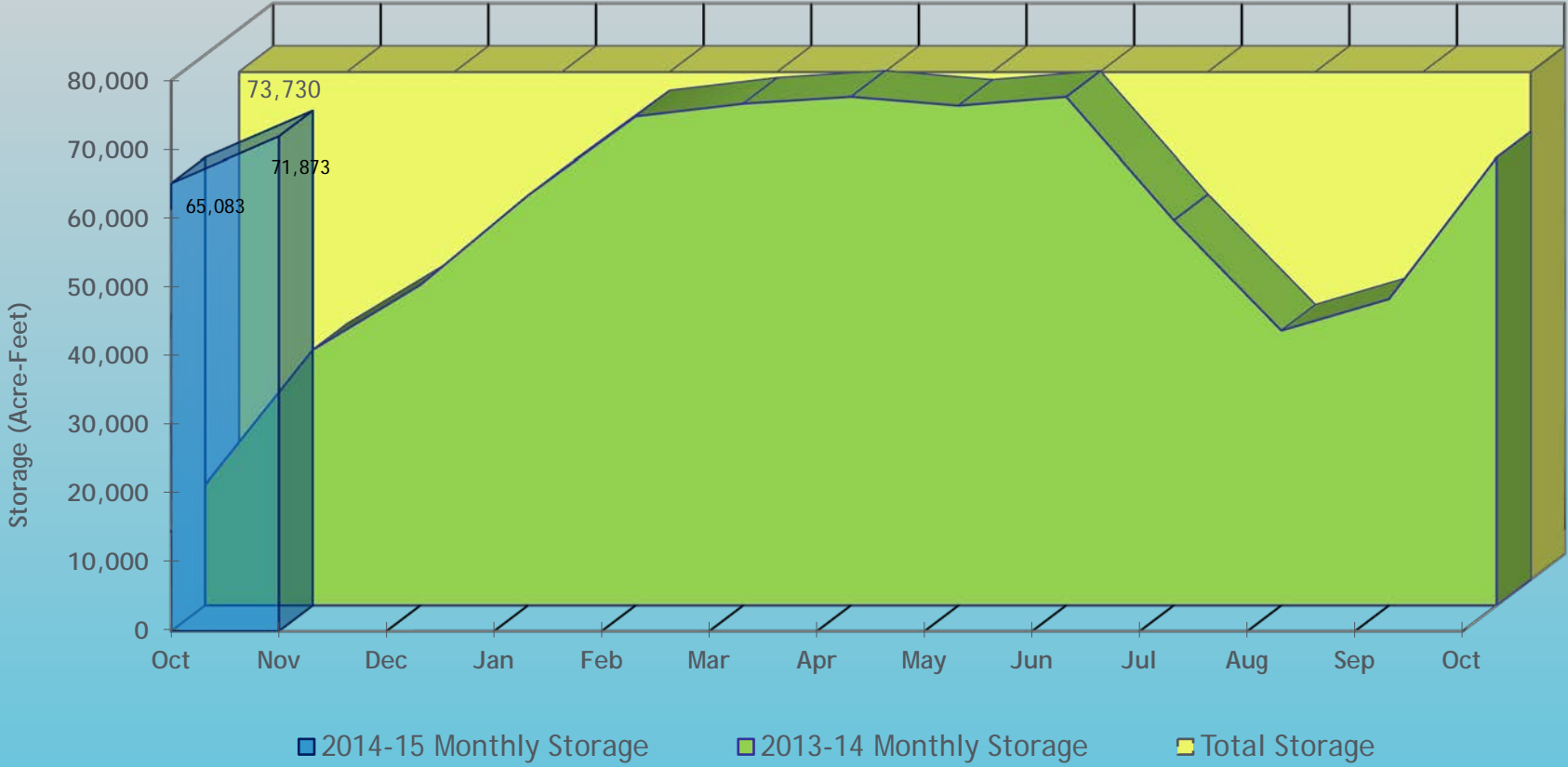


# Julesburg Reservoir (District 64 - Agricultural)

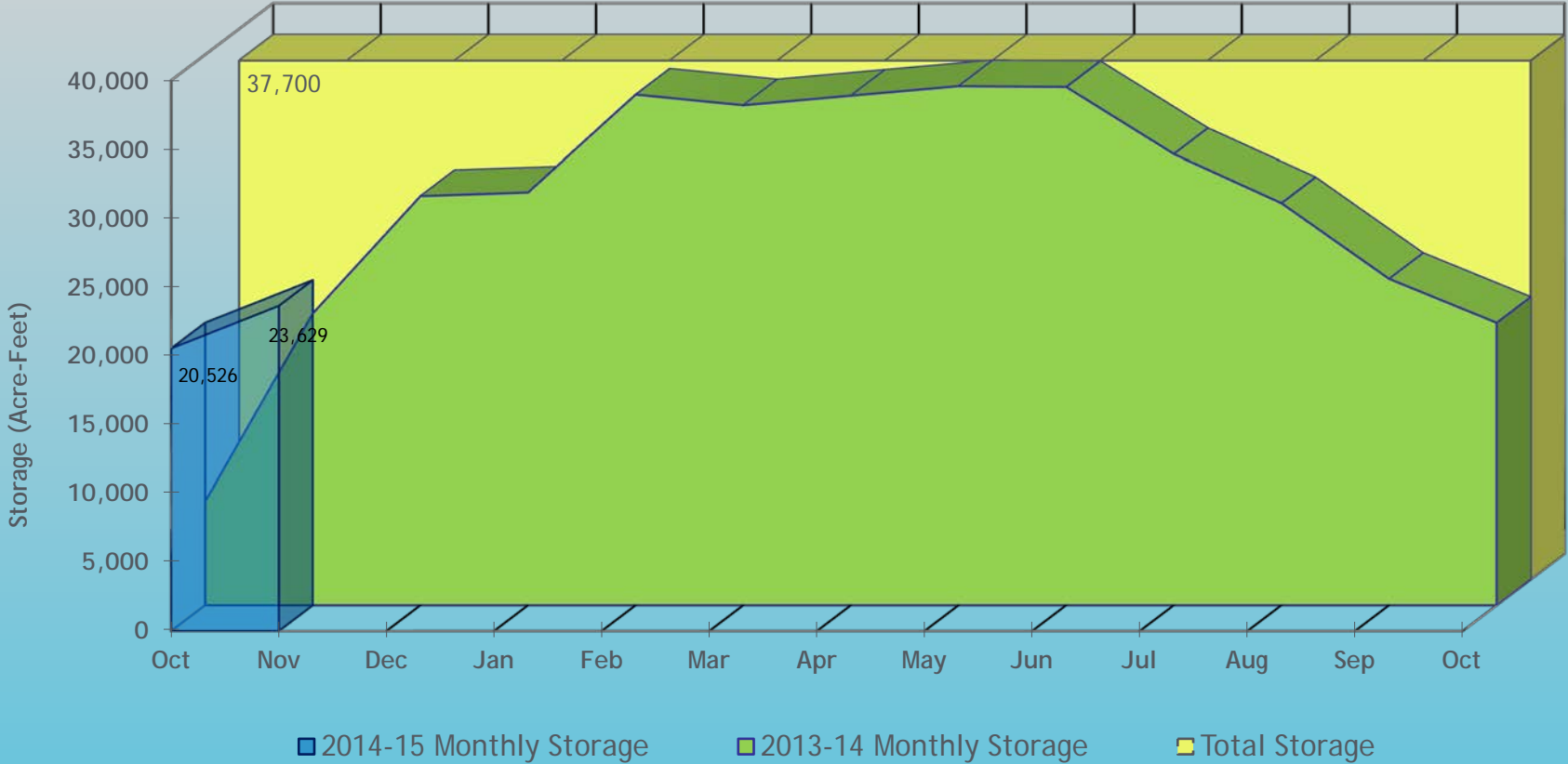




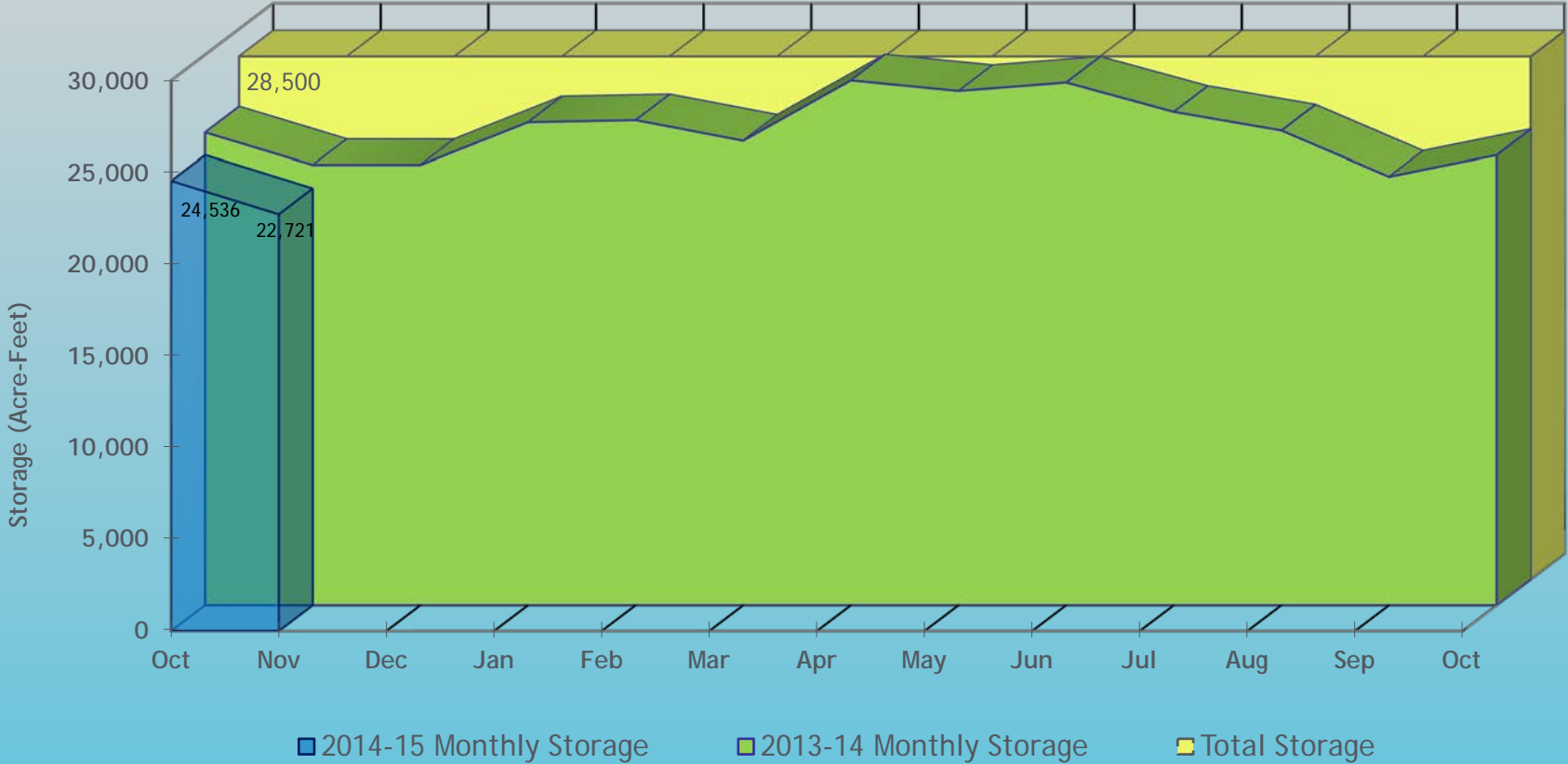
# North Sterling Reservoir (District 64 - Agricultural)



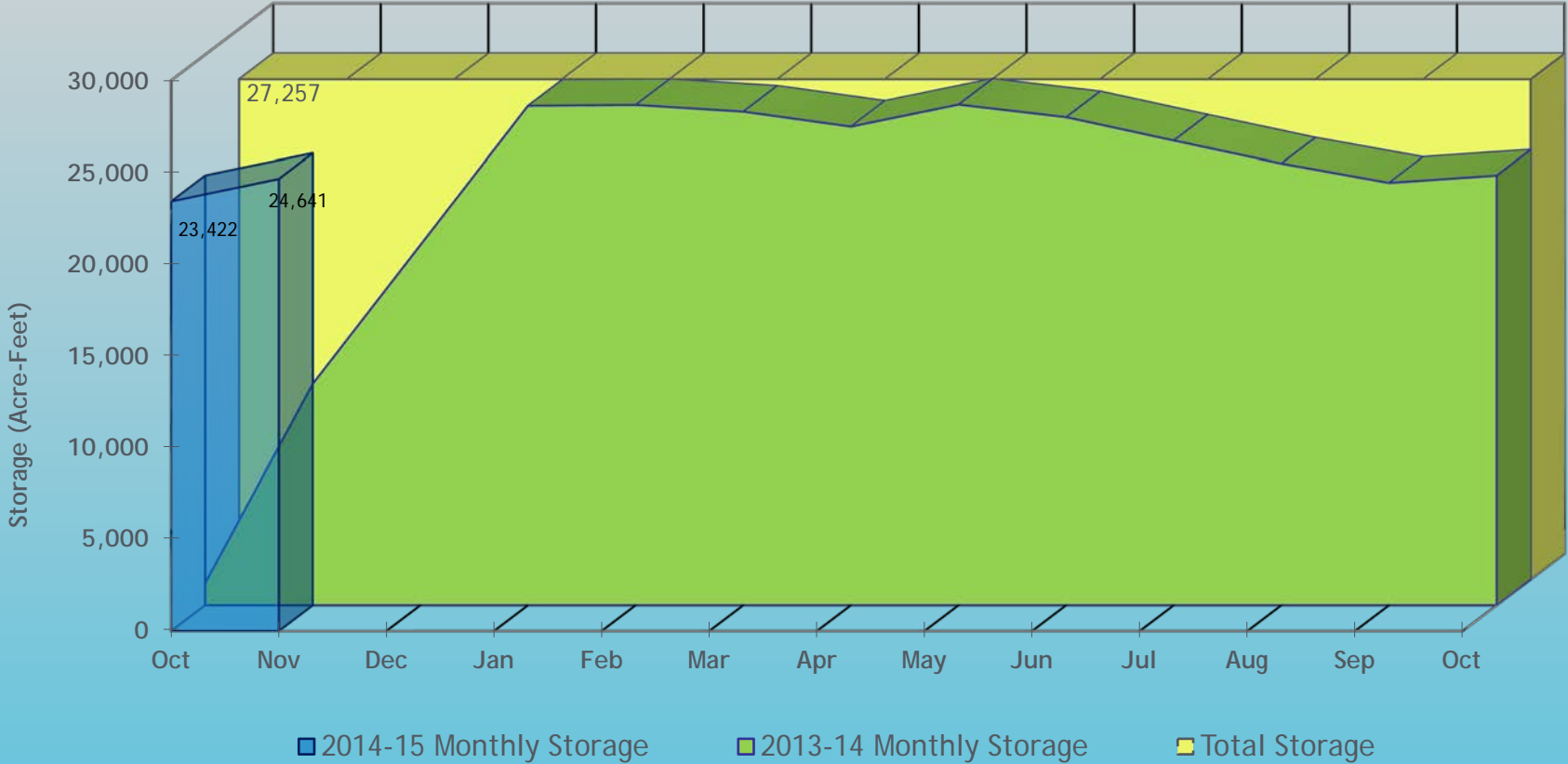
# Empire Reservoir (District 1 - Agricultural)



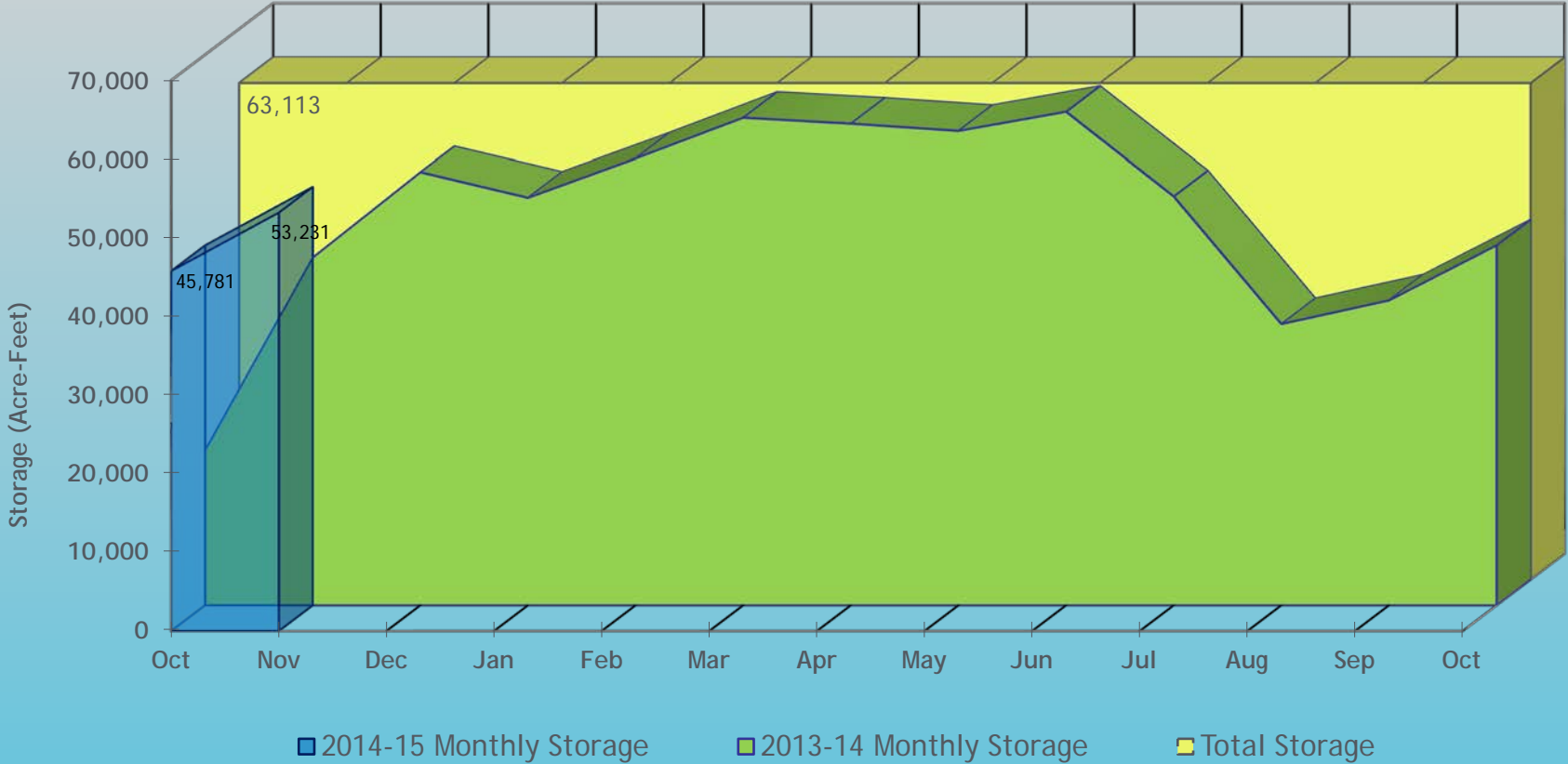
# Prewitt Reservoir (District 64 - Agricultural)



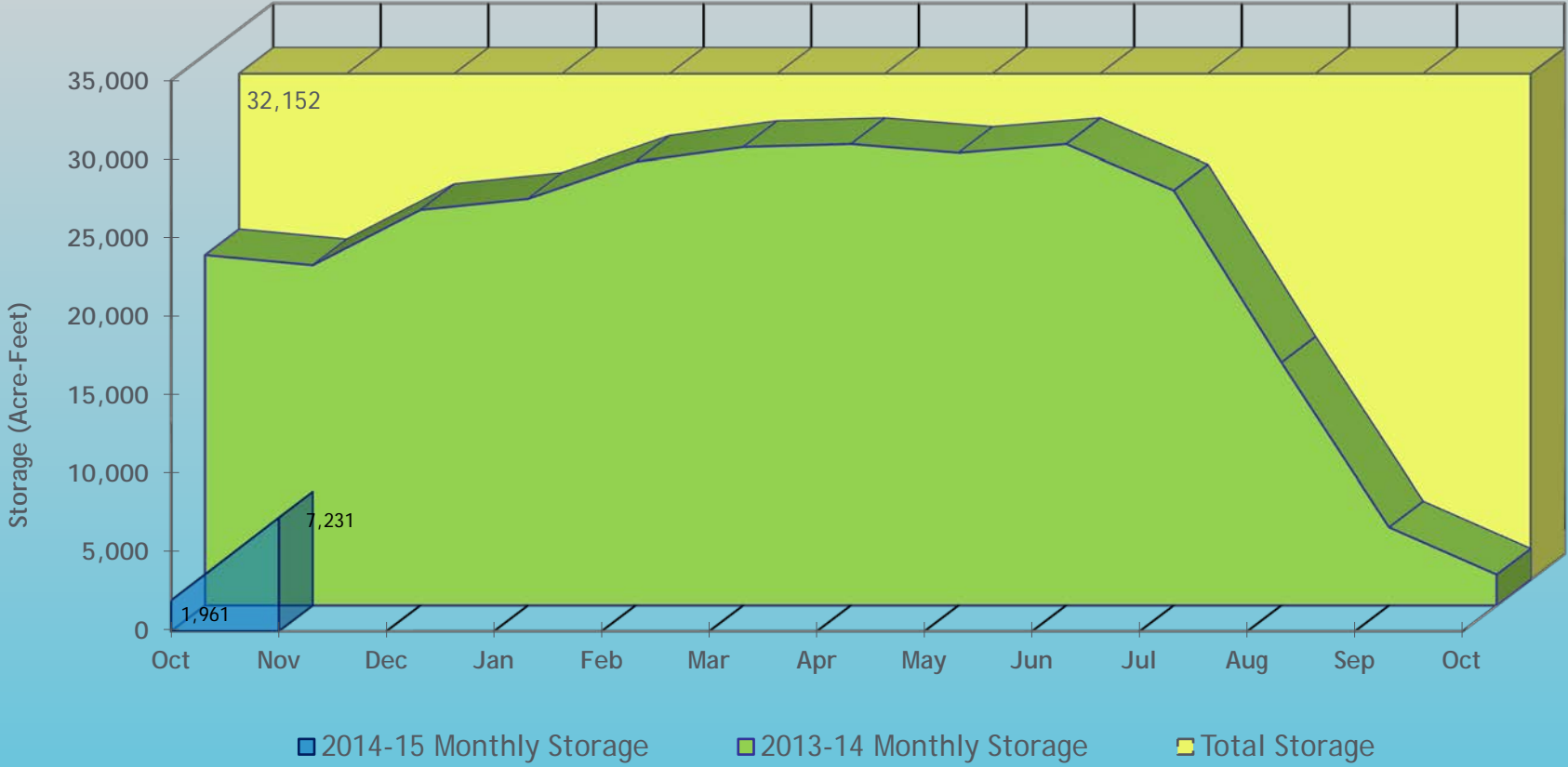
# Jackson Reservoir (District 1 - Agricultural)



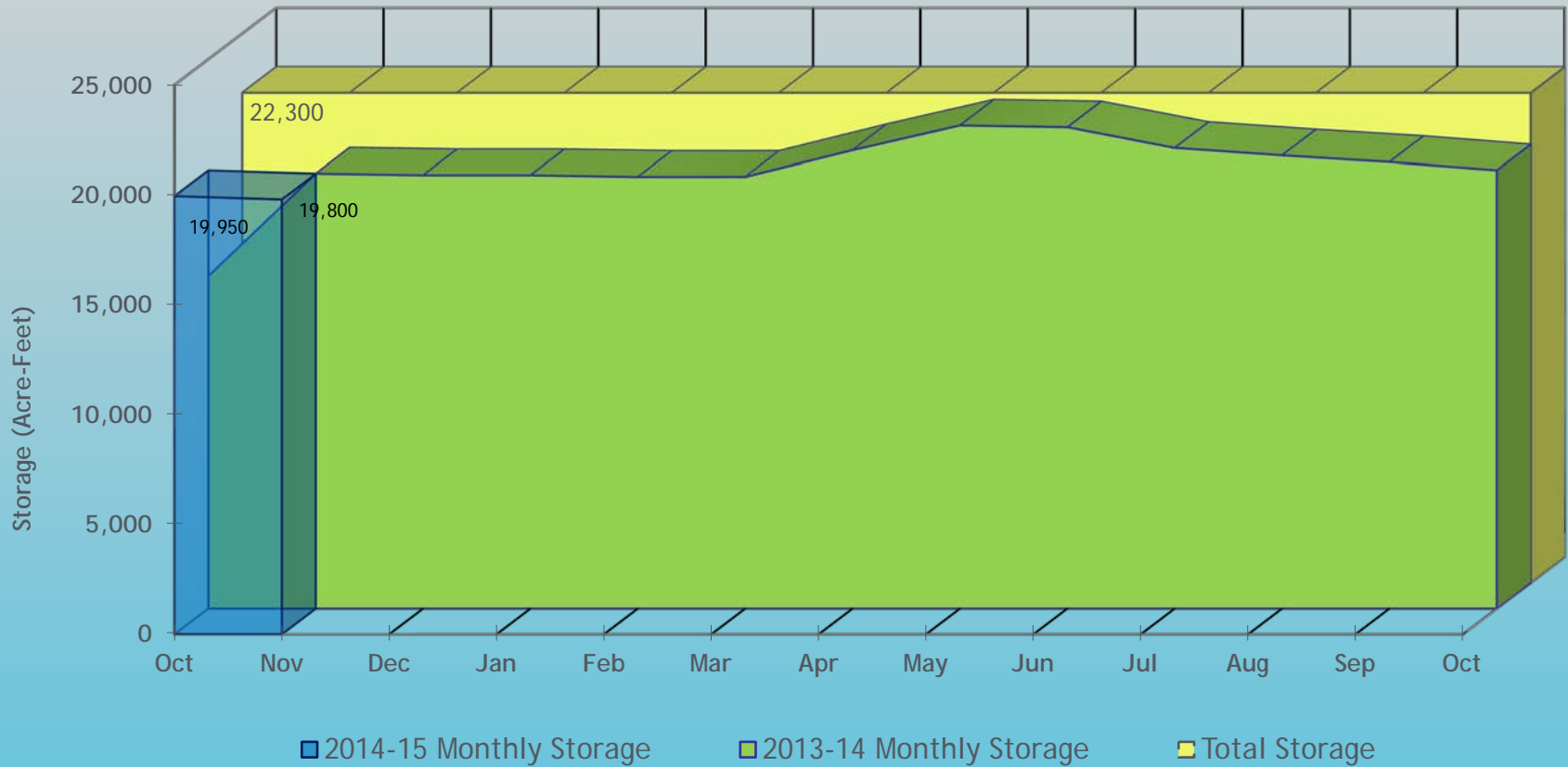
# Riverside Reservoir (District 1 - Agricultural)



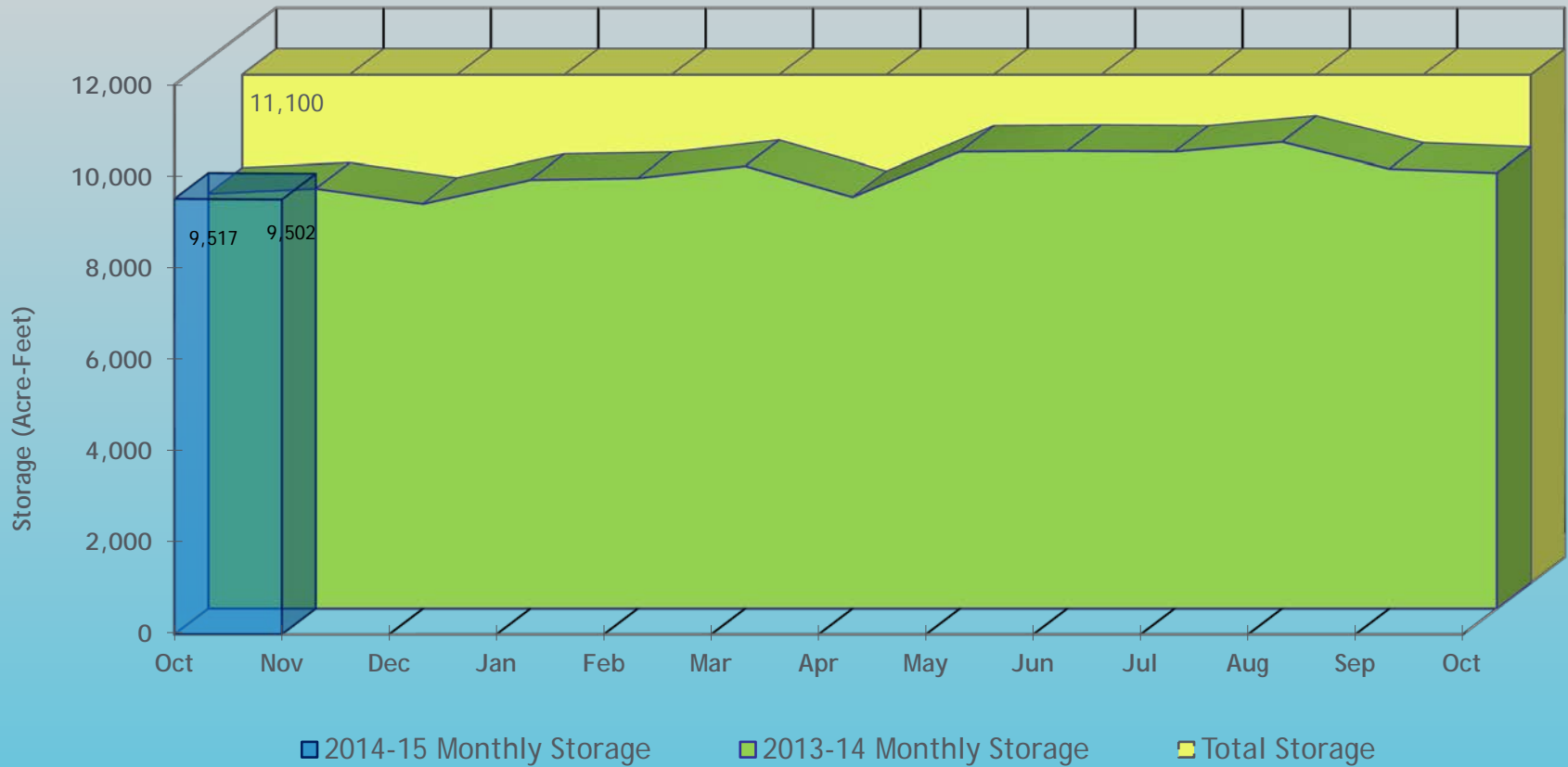
# Barr Reservoir (District 2 - Agricultural)



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

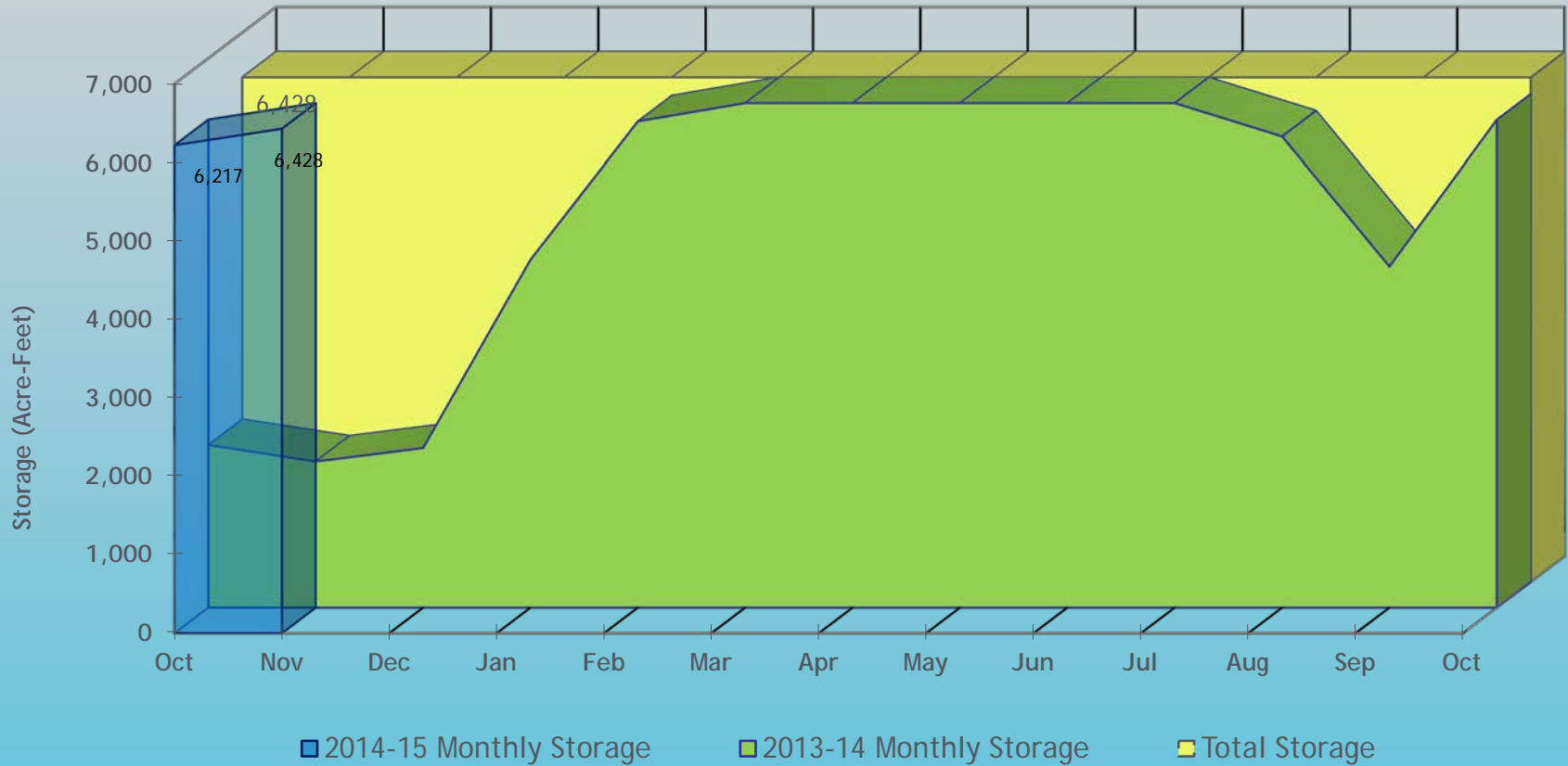


# Fossil Creek Reservoir (District 3, Poudre River - Agricultural)

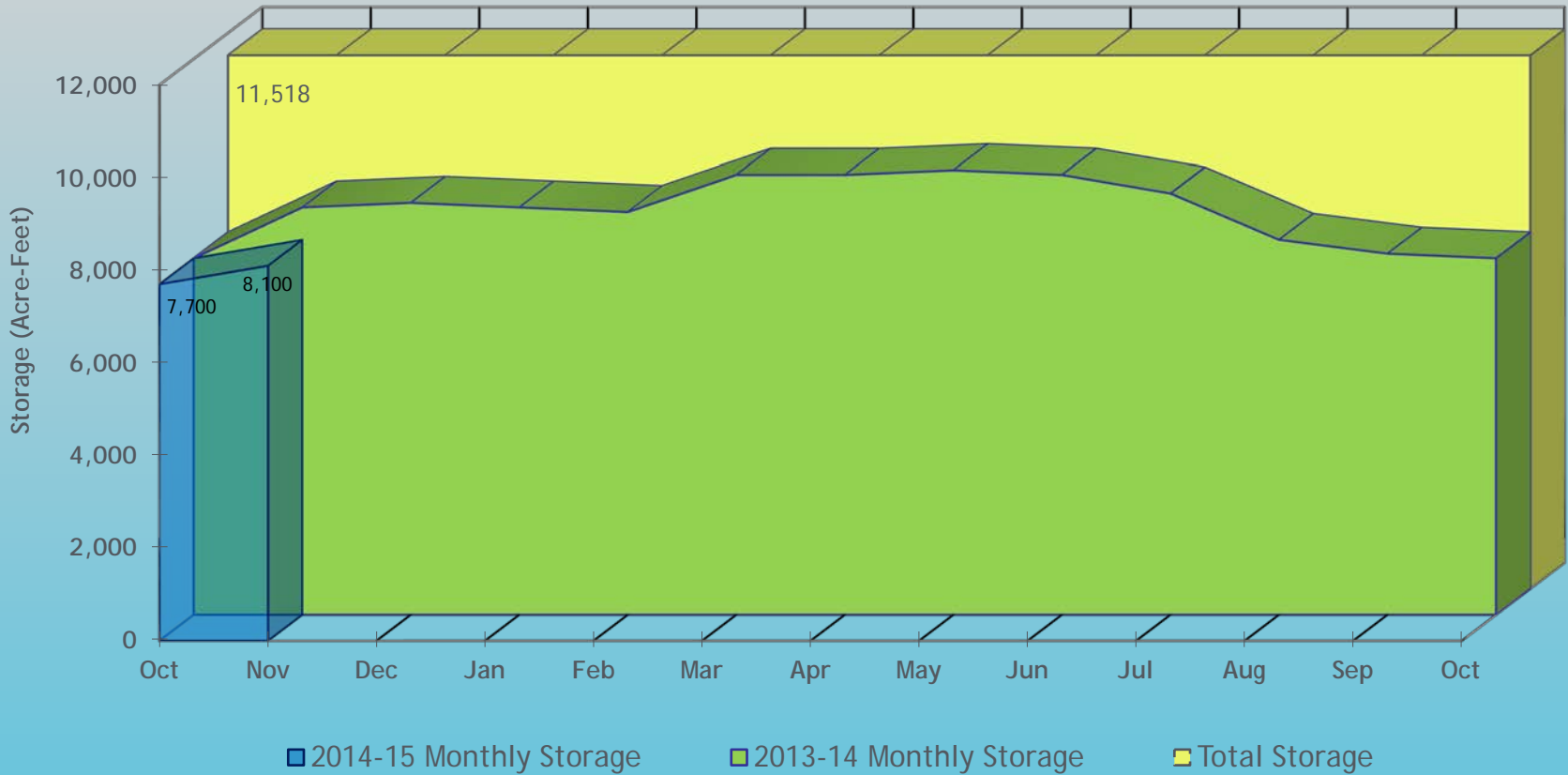




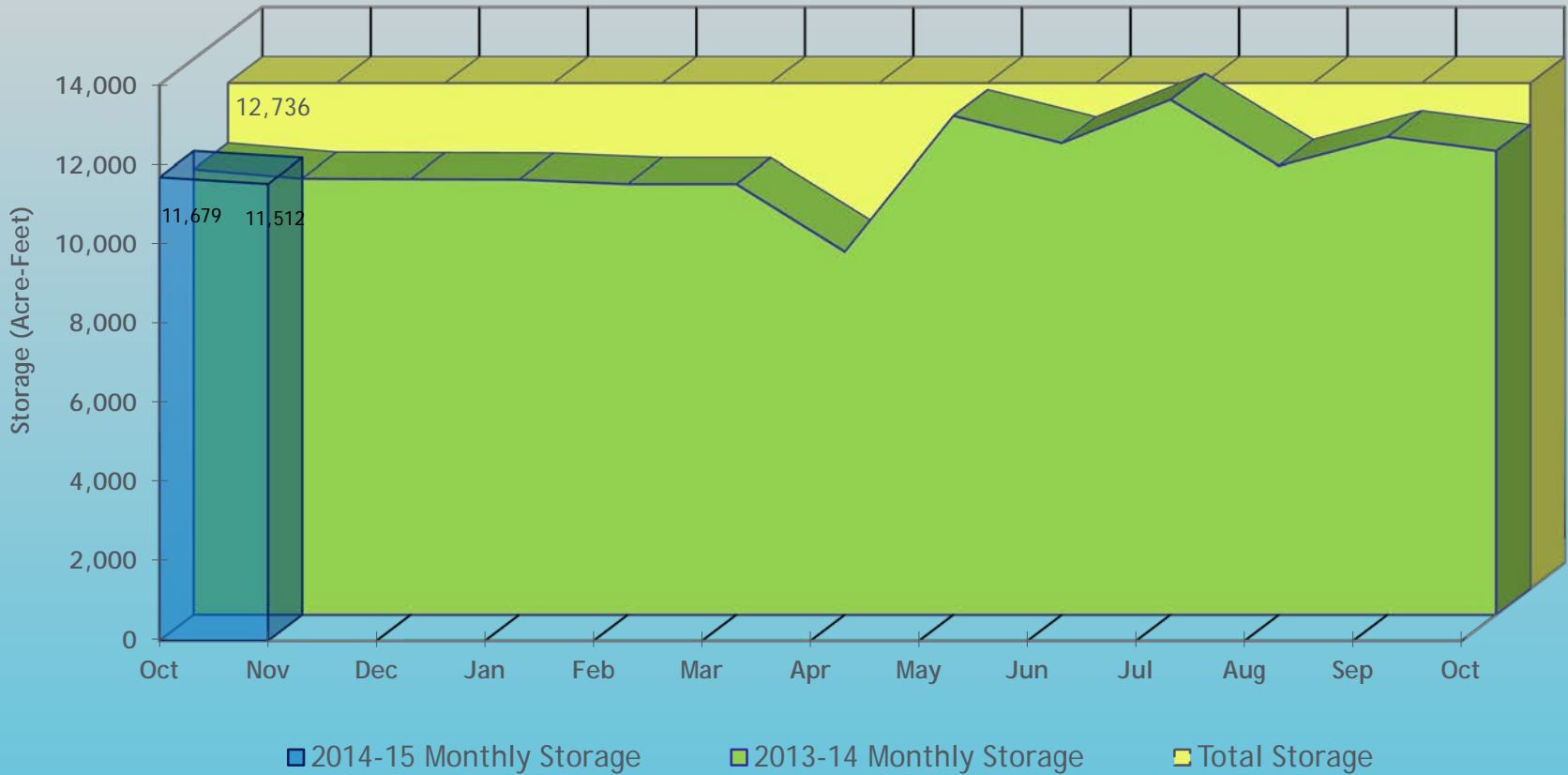
# Halligan Reservoir (District 3, Poudre River - Agricultural)



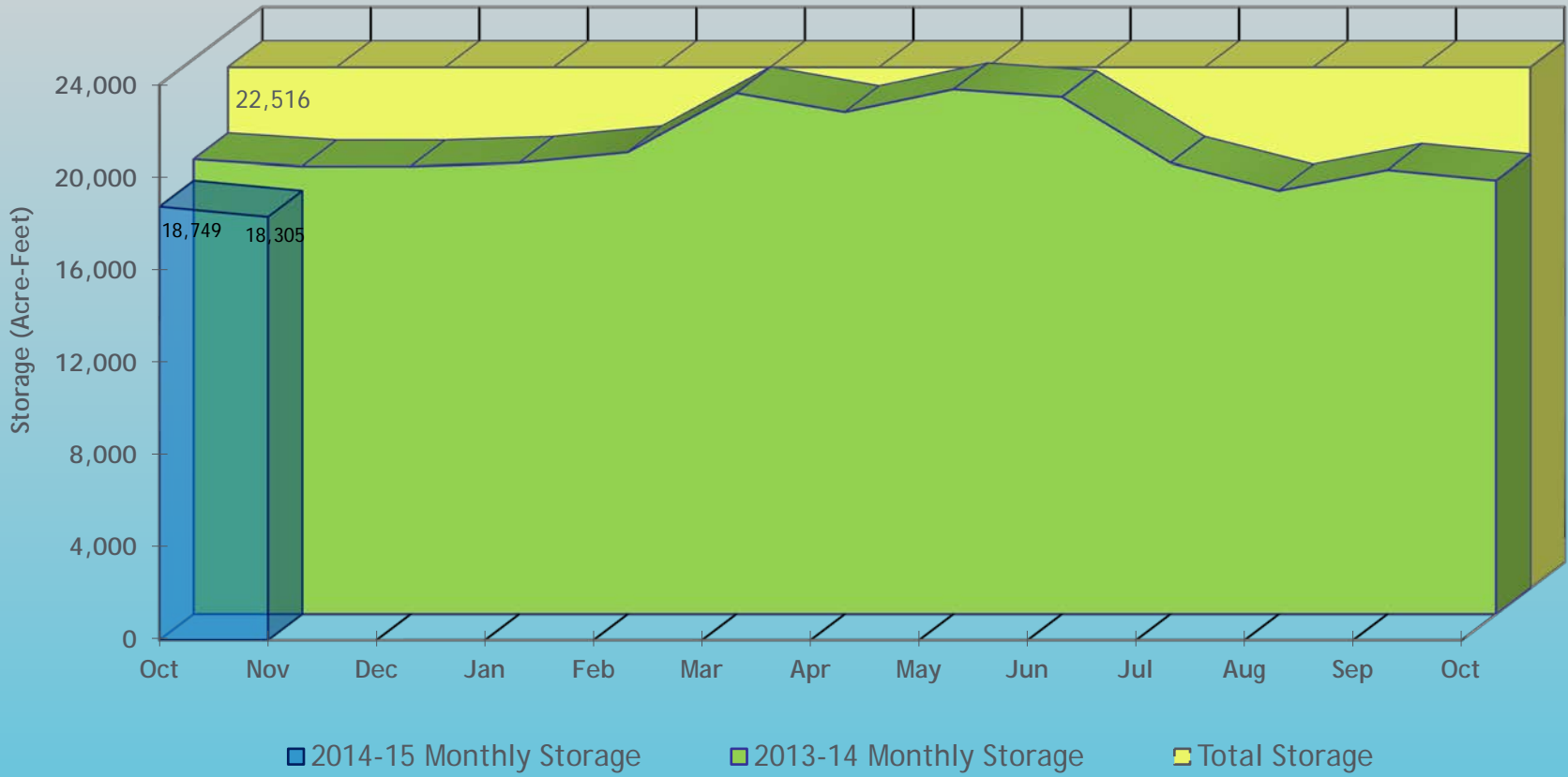
# Marshall Lake (District 6, Boulder Creek - Agricultural)



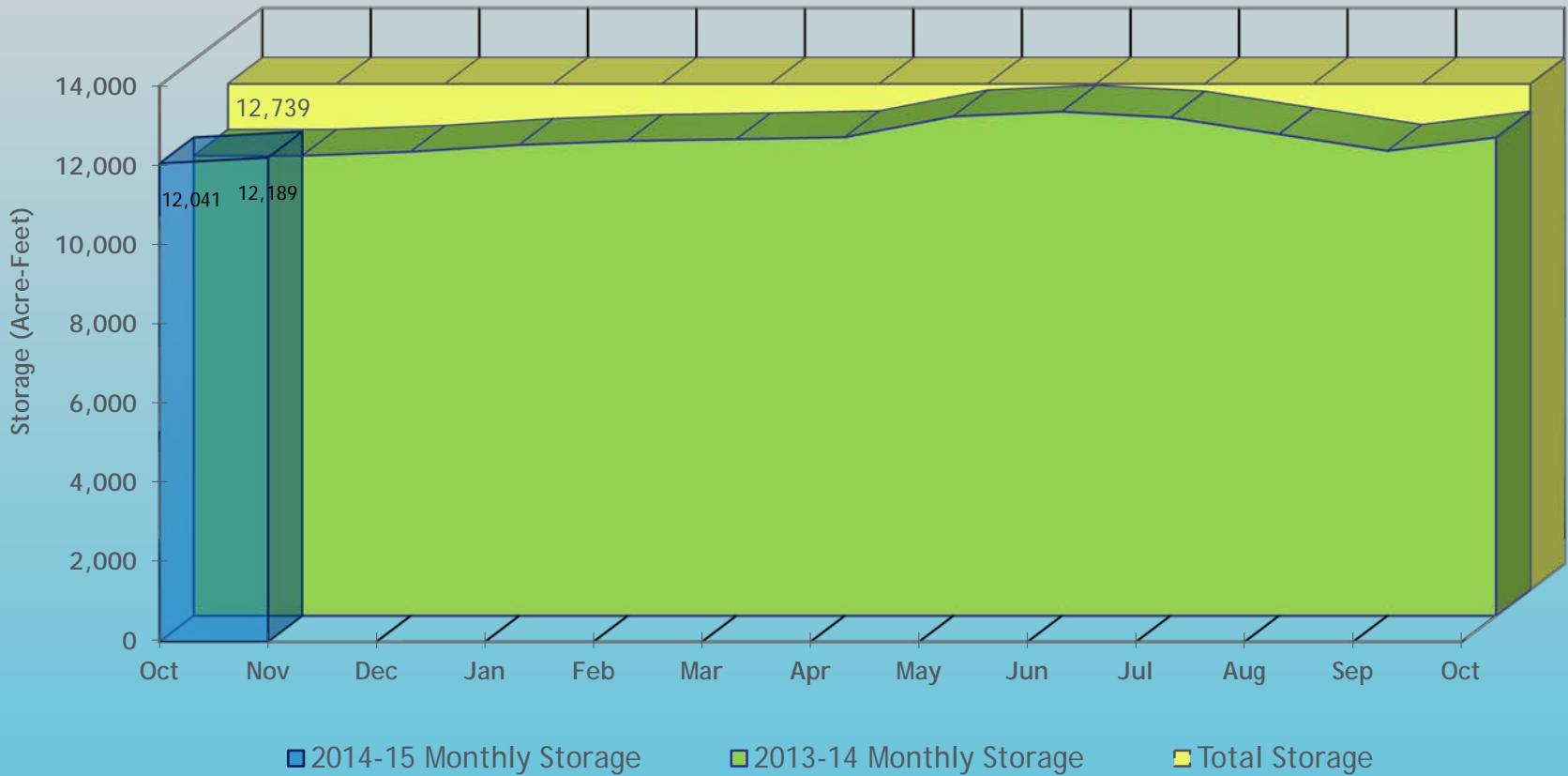
# Loveland Greeley Reservoir (District 4, Big Thompson River - Agricultural)



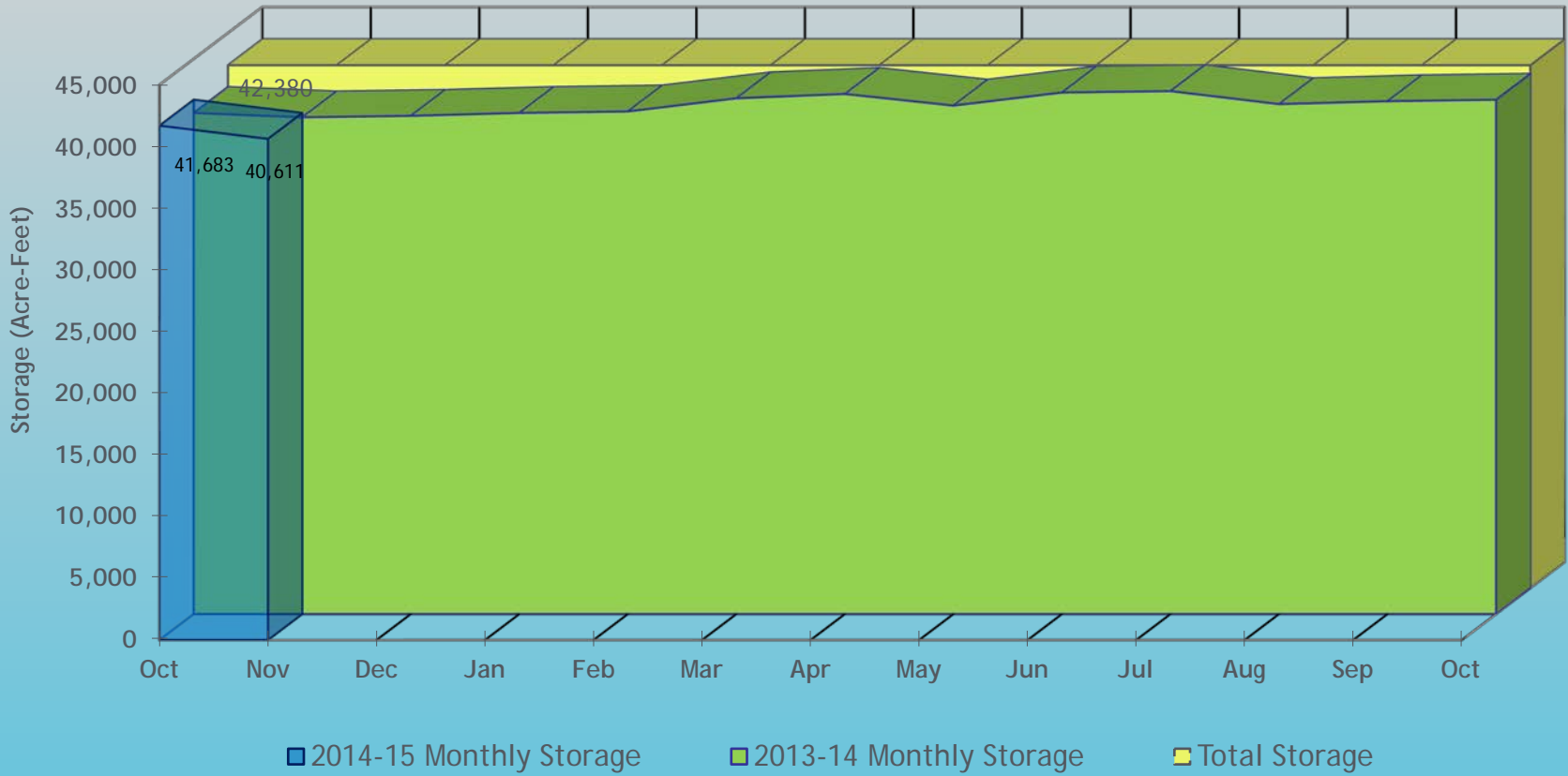
# Milton Reservoir (District 2 - Agricultural)



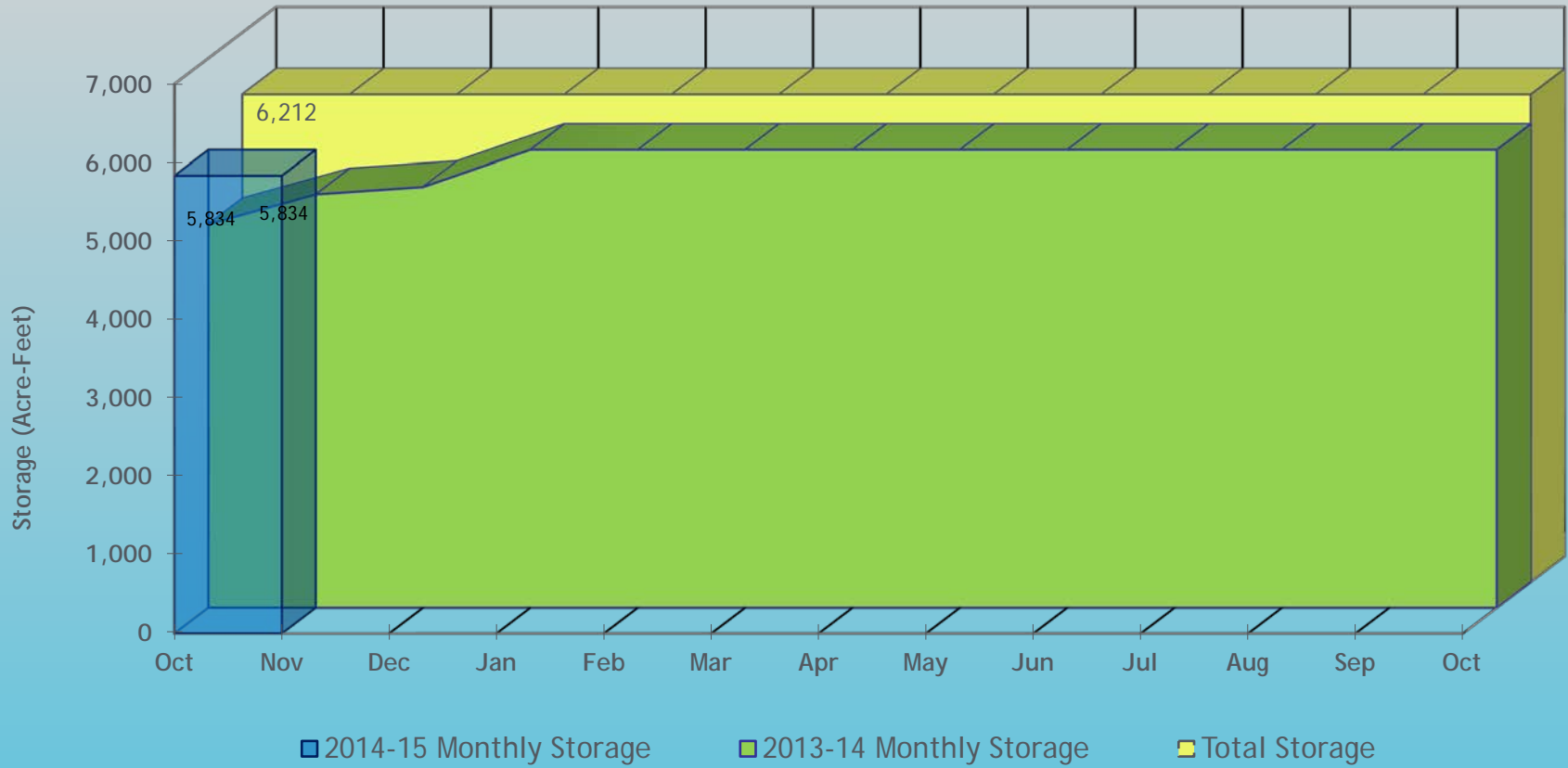
# Union Reservoir (District 5, St. Vrain Creek - Agricultural)



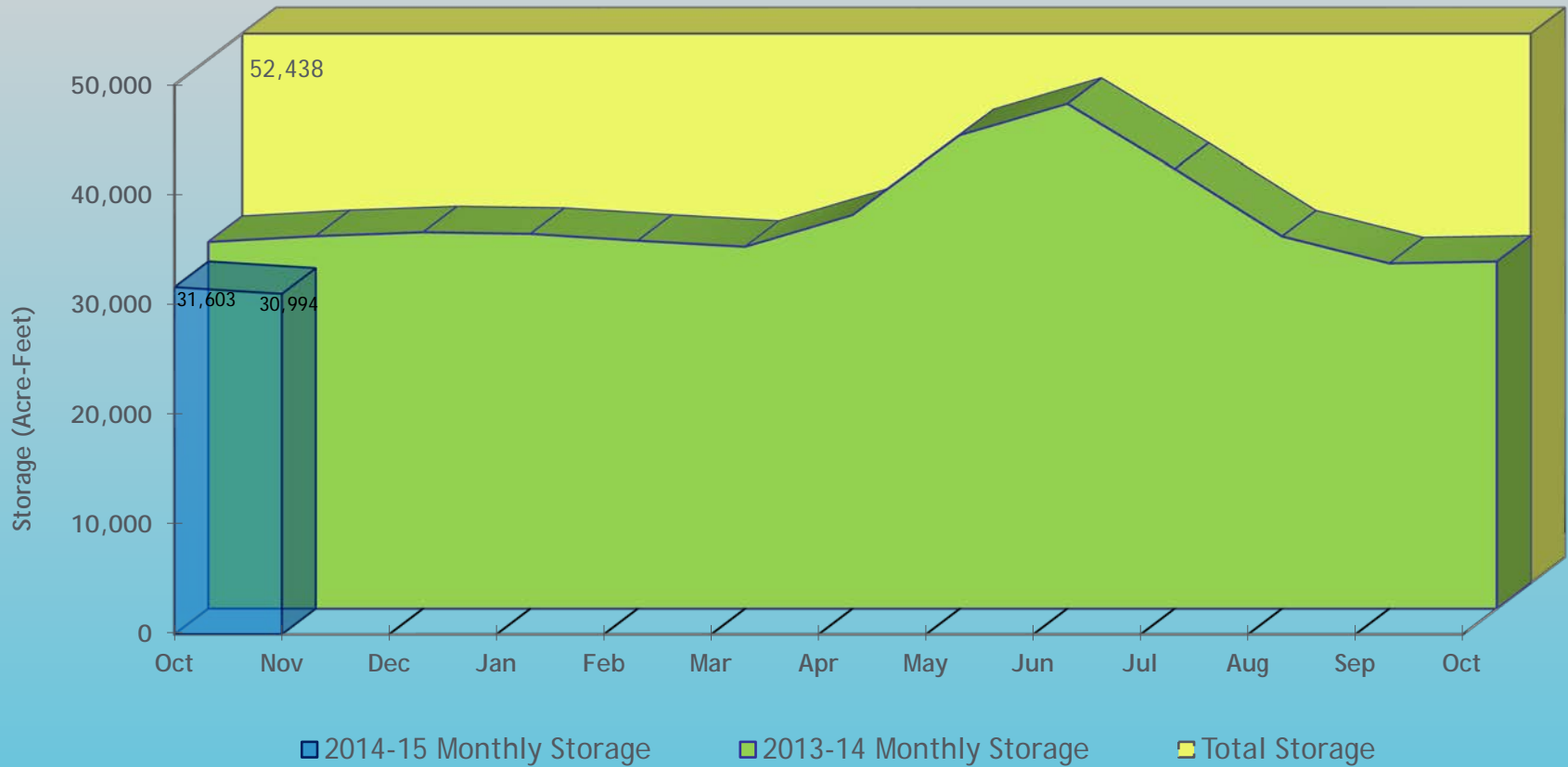
# Standley Lake (Agricultural)



# Lower Latham Reservoir (District 2 - Agricultural)

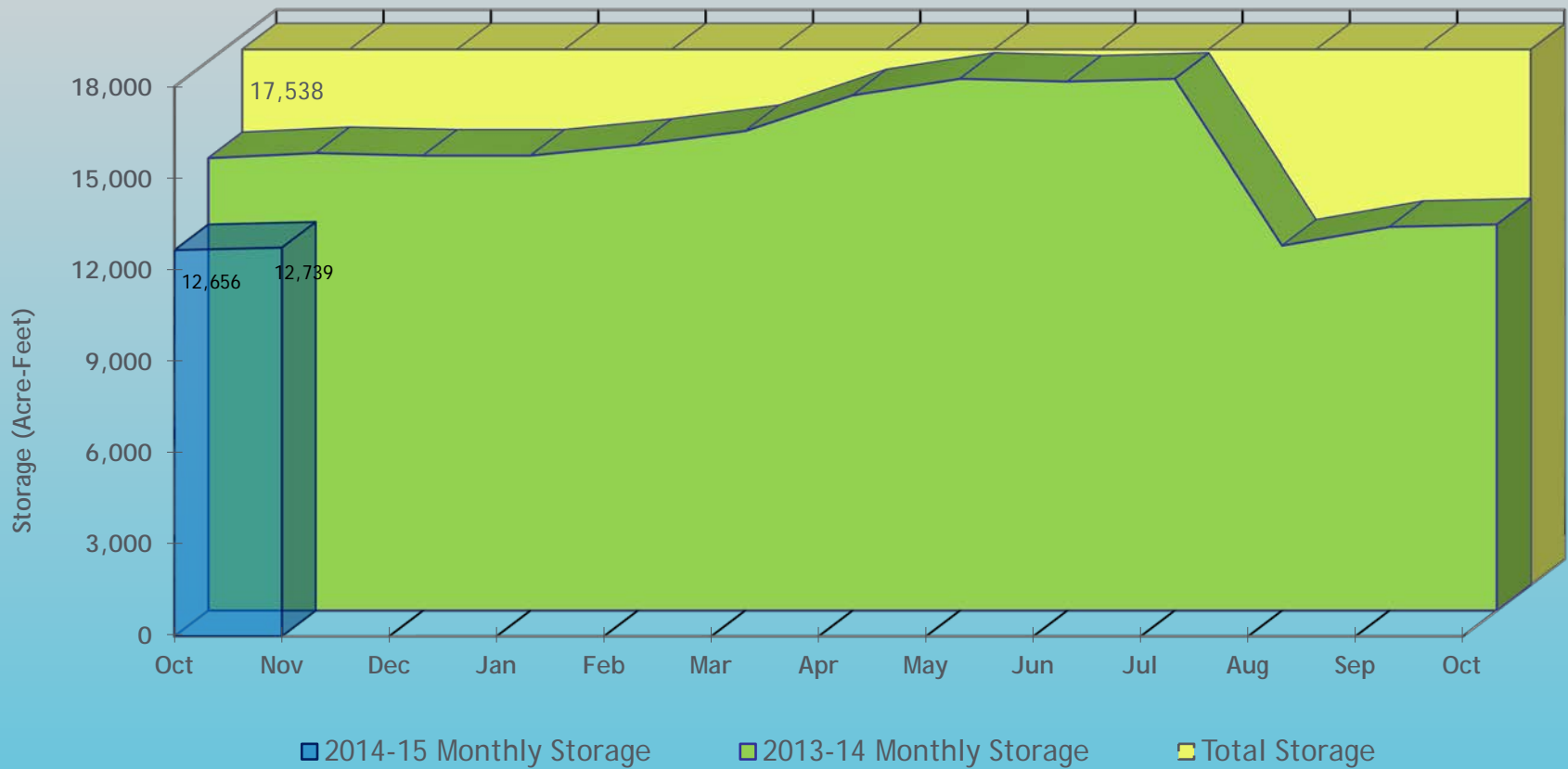


# Boyd Lake (District 4, Big Thompson River - Agricultural)

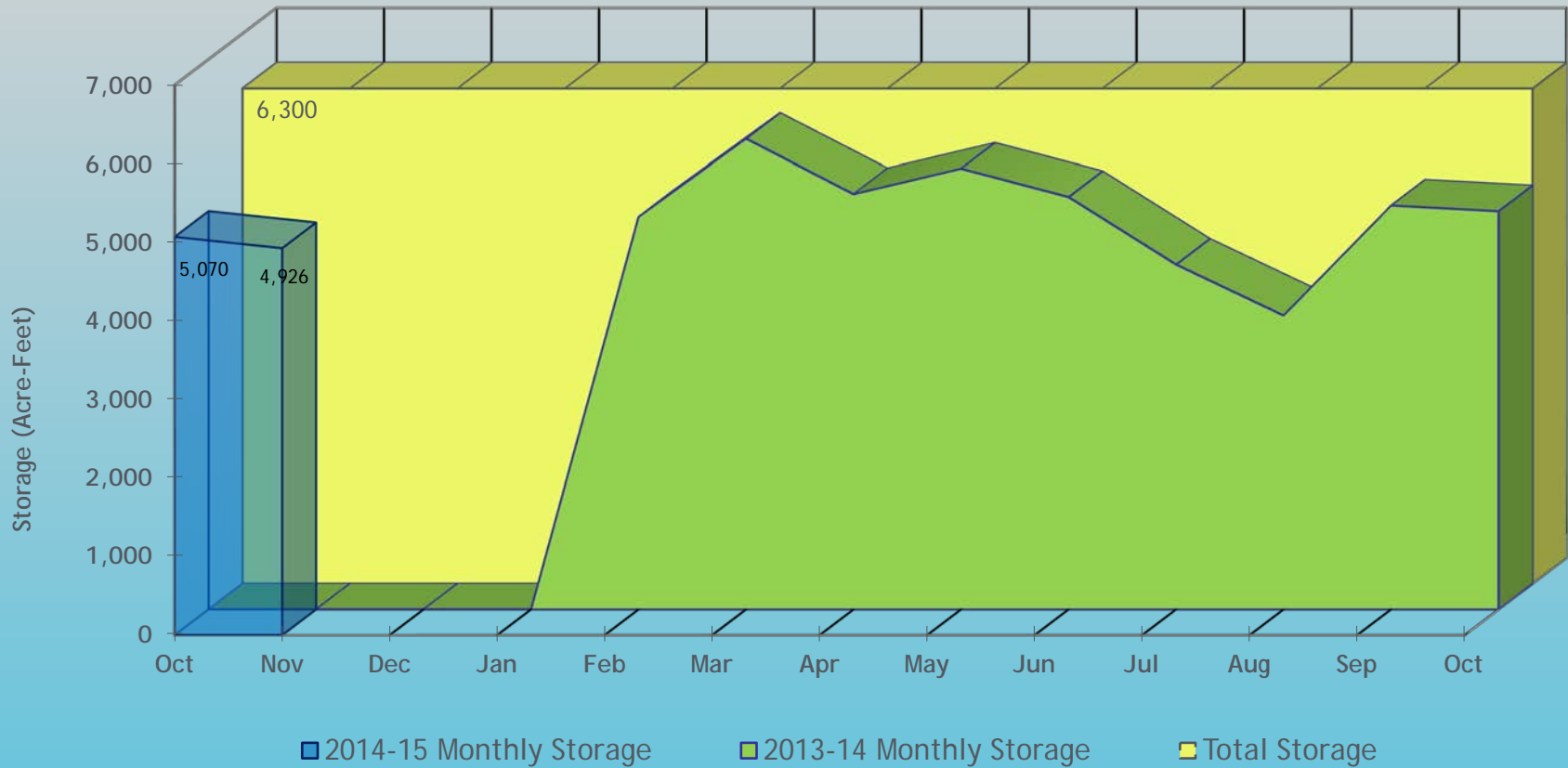




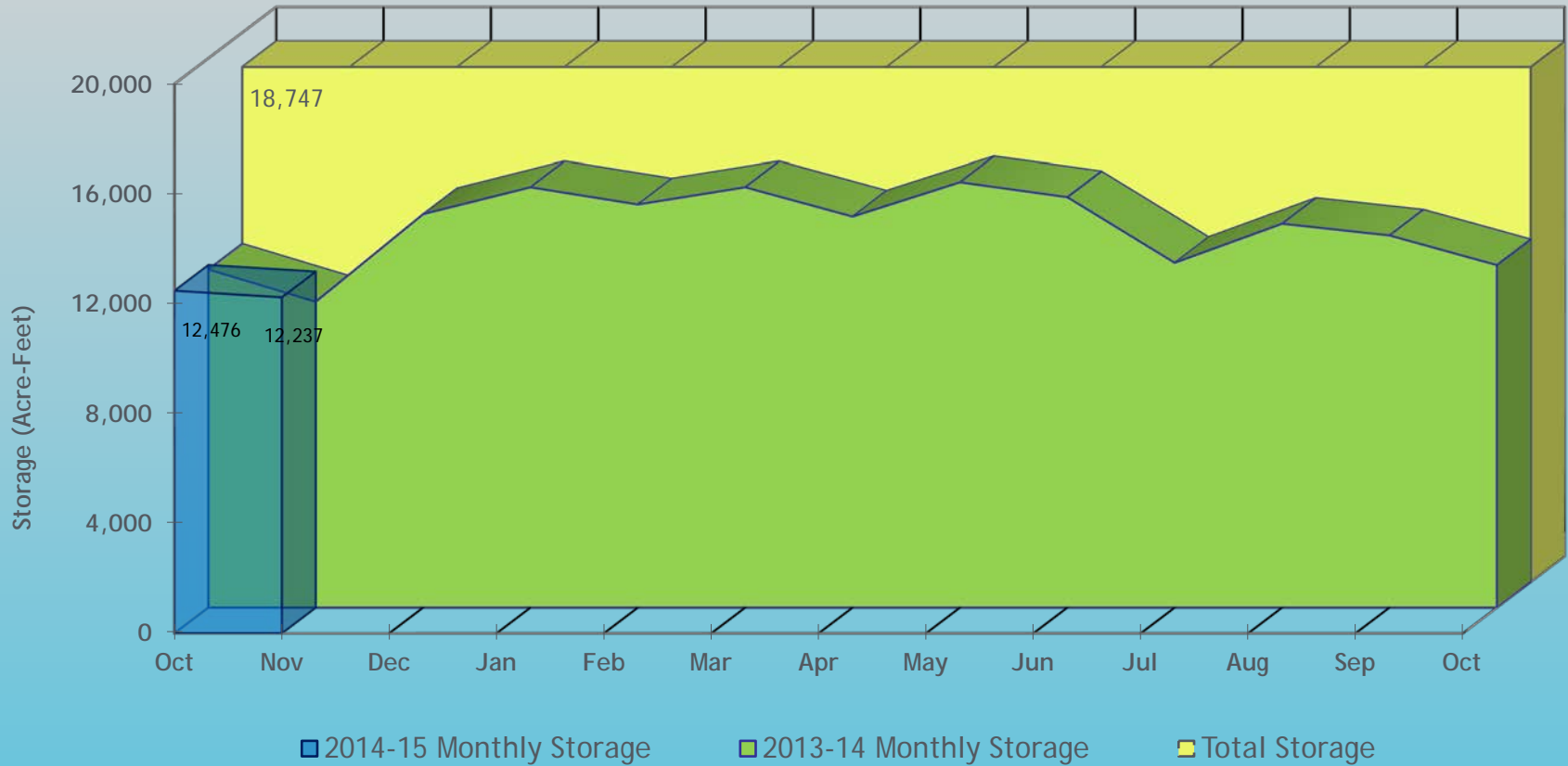
# Windsor Reservoir (District 3, Poudre River - Agricultural)



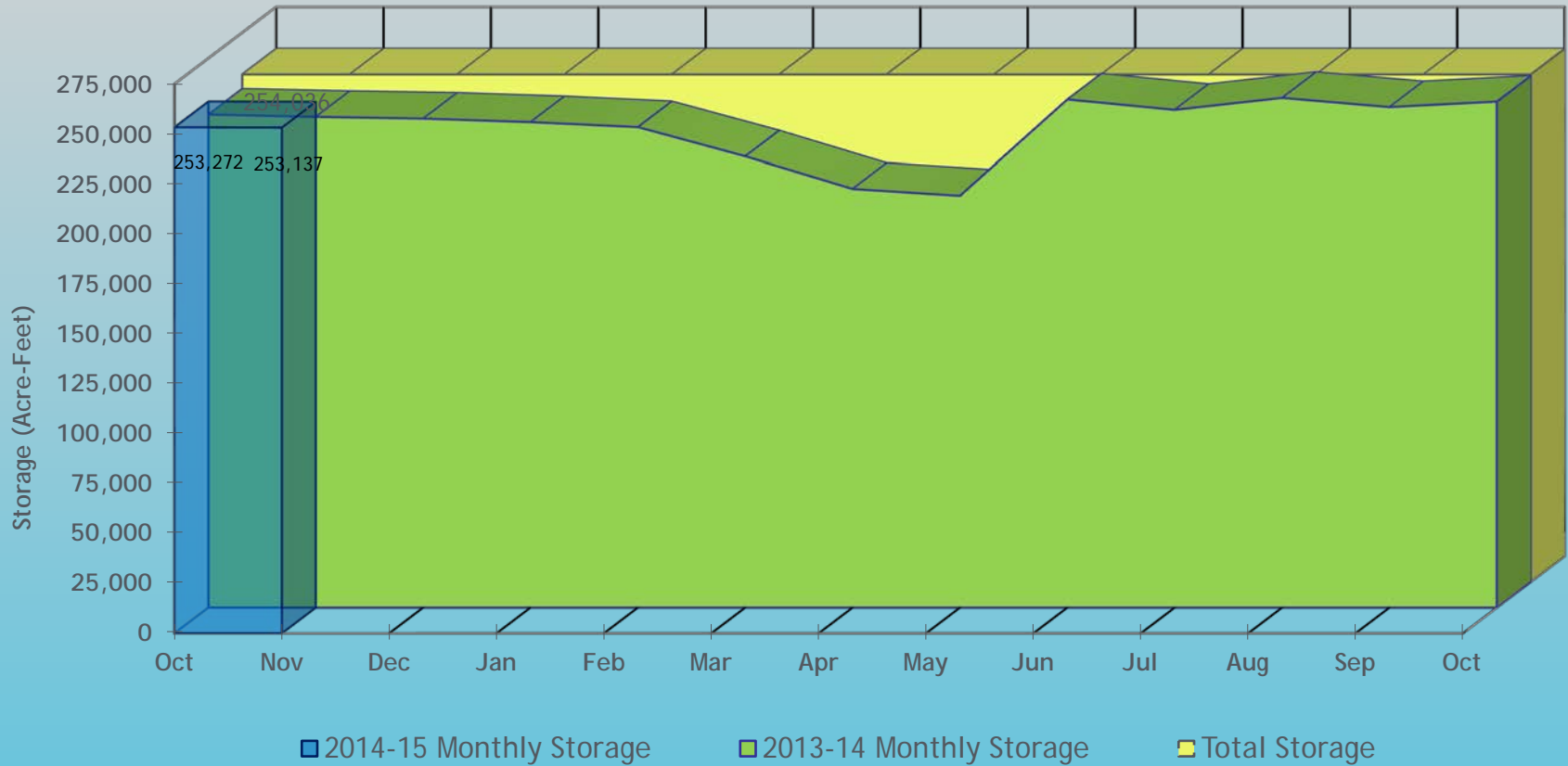
# Prospect Reservoir (District 1 - Agricultural)



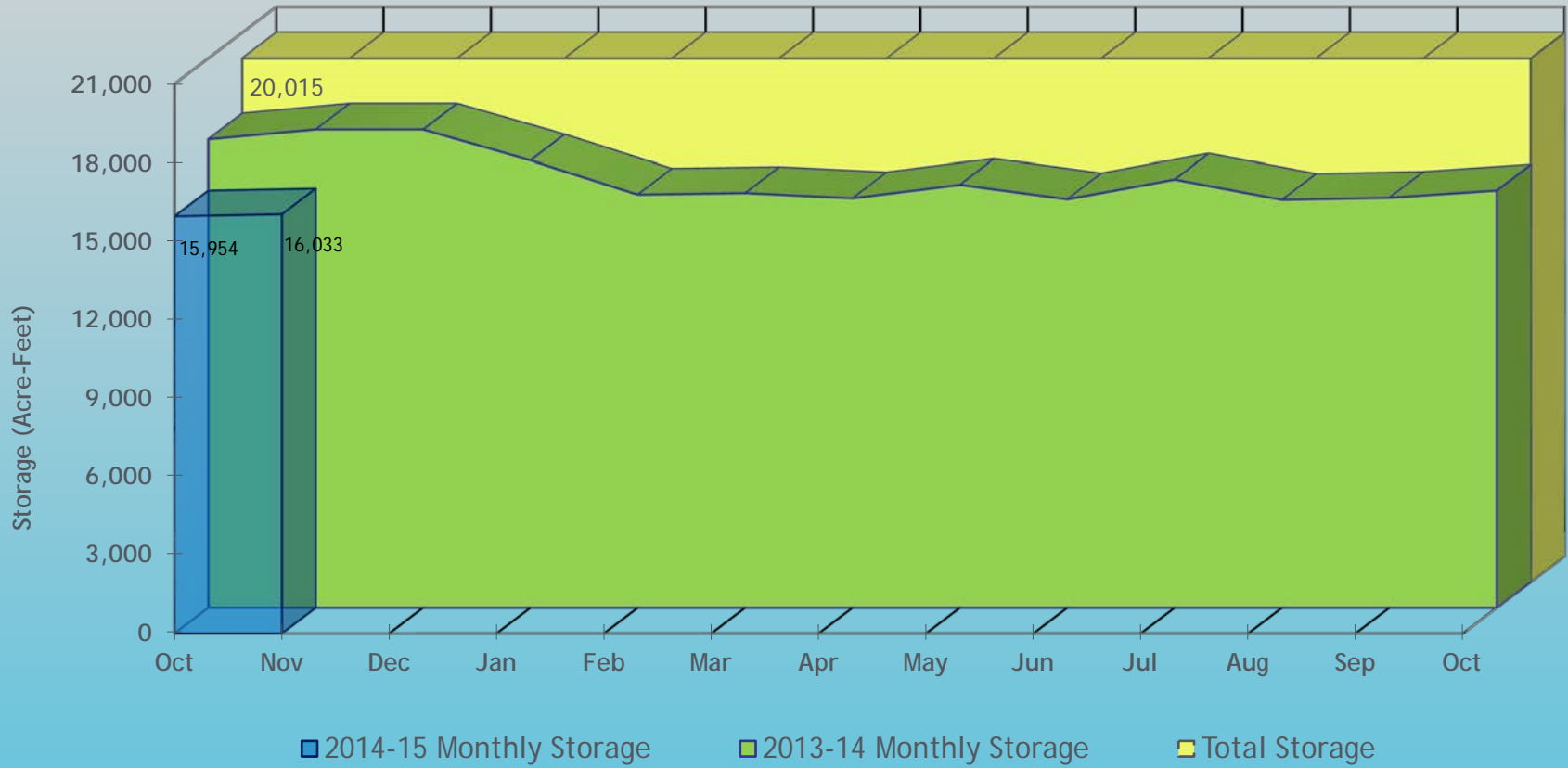
# Horse Creek Reservoir (District 1 - Agricultural)



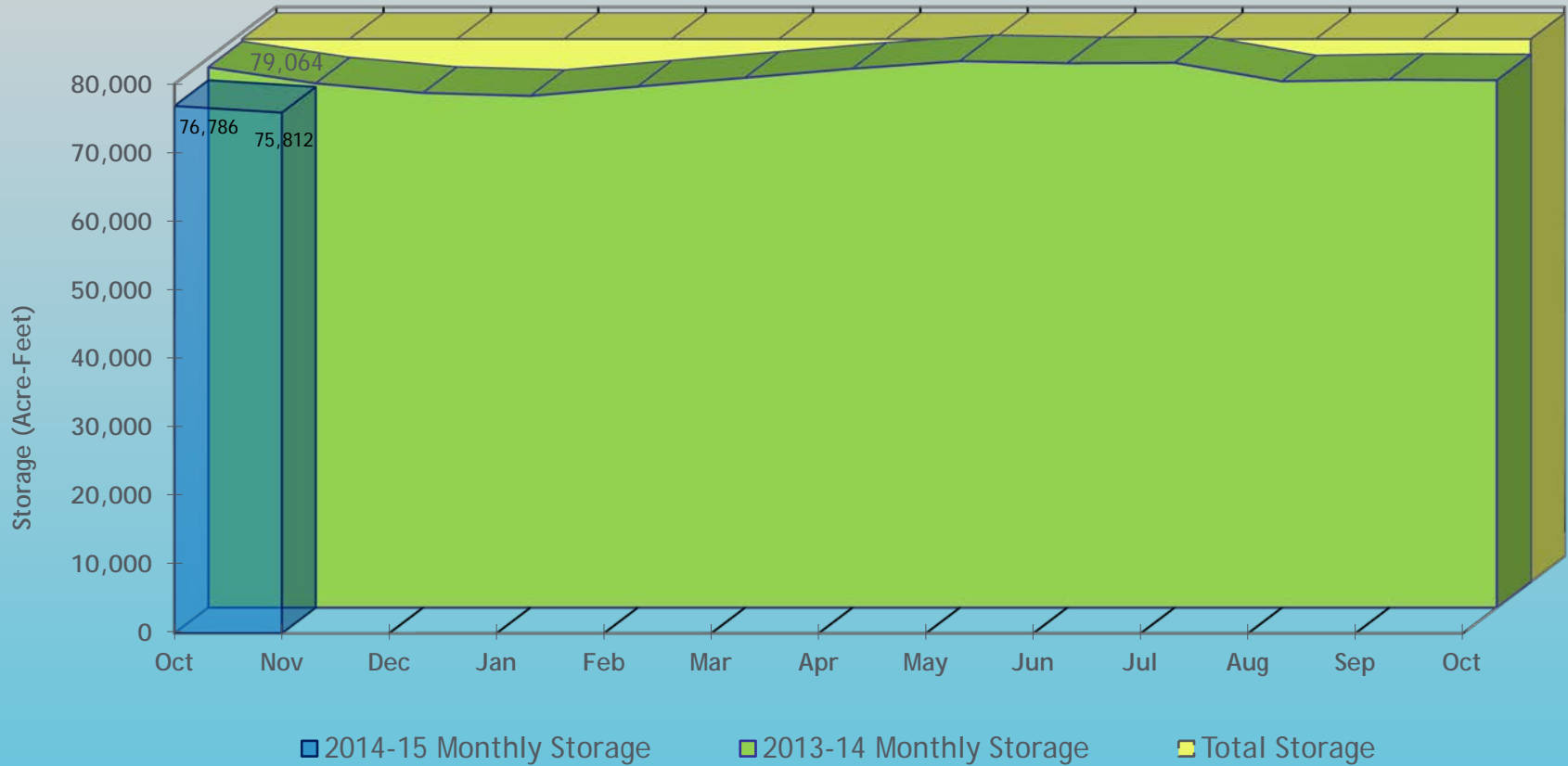
# Dillon Reservoir (District 1 - Municipal)



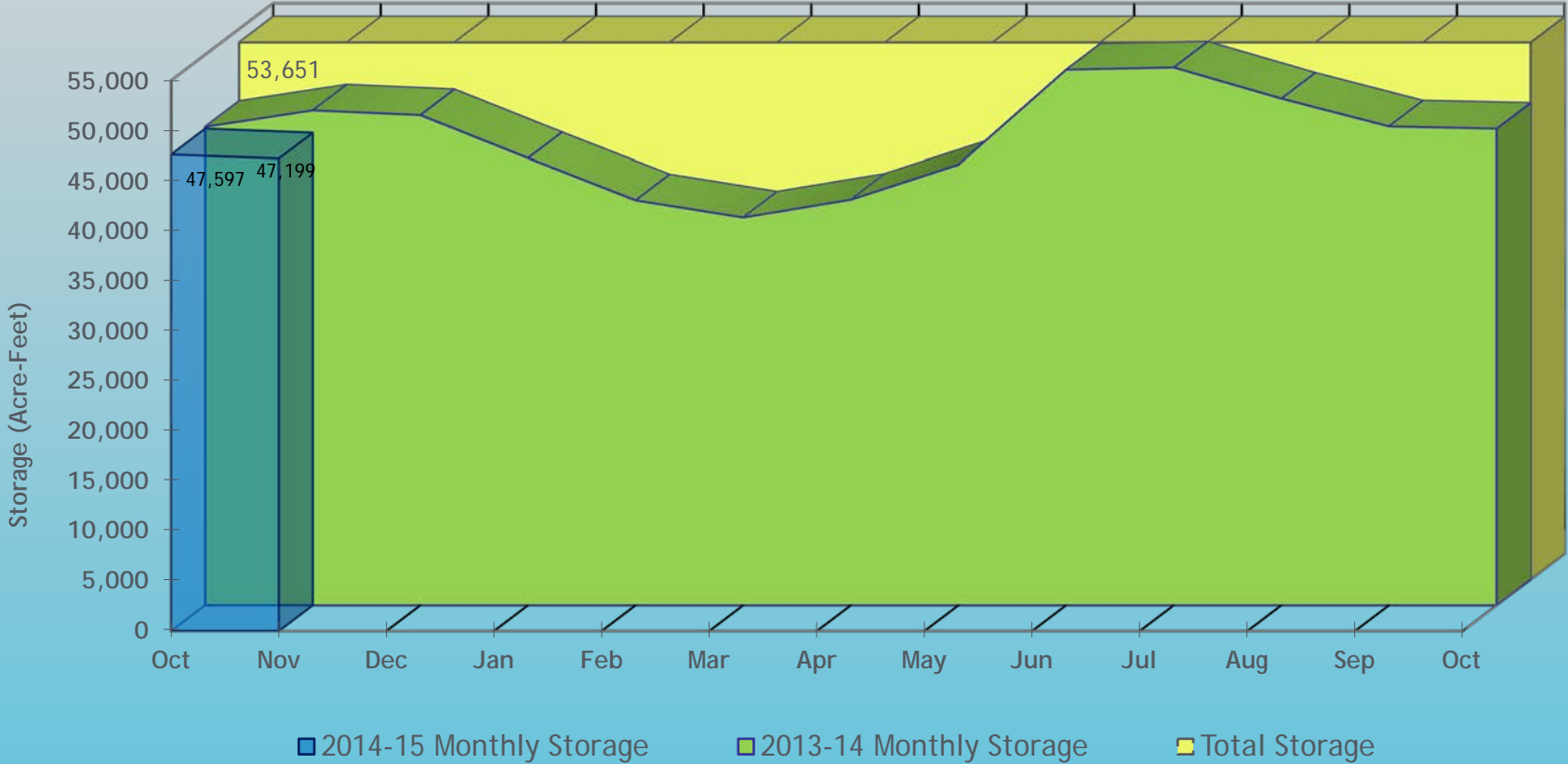
# Antero Reservoir (District 23 - Municipal)



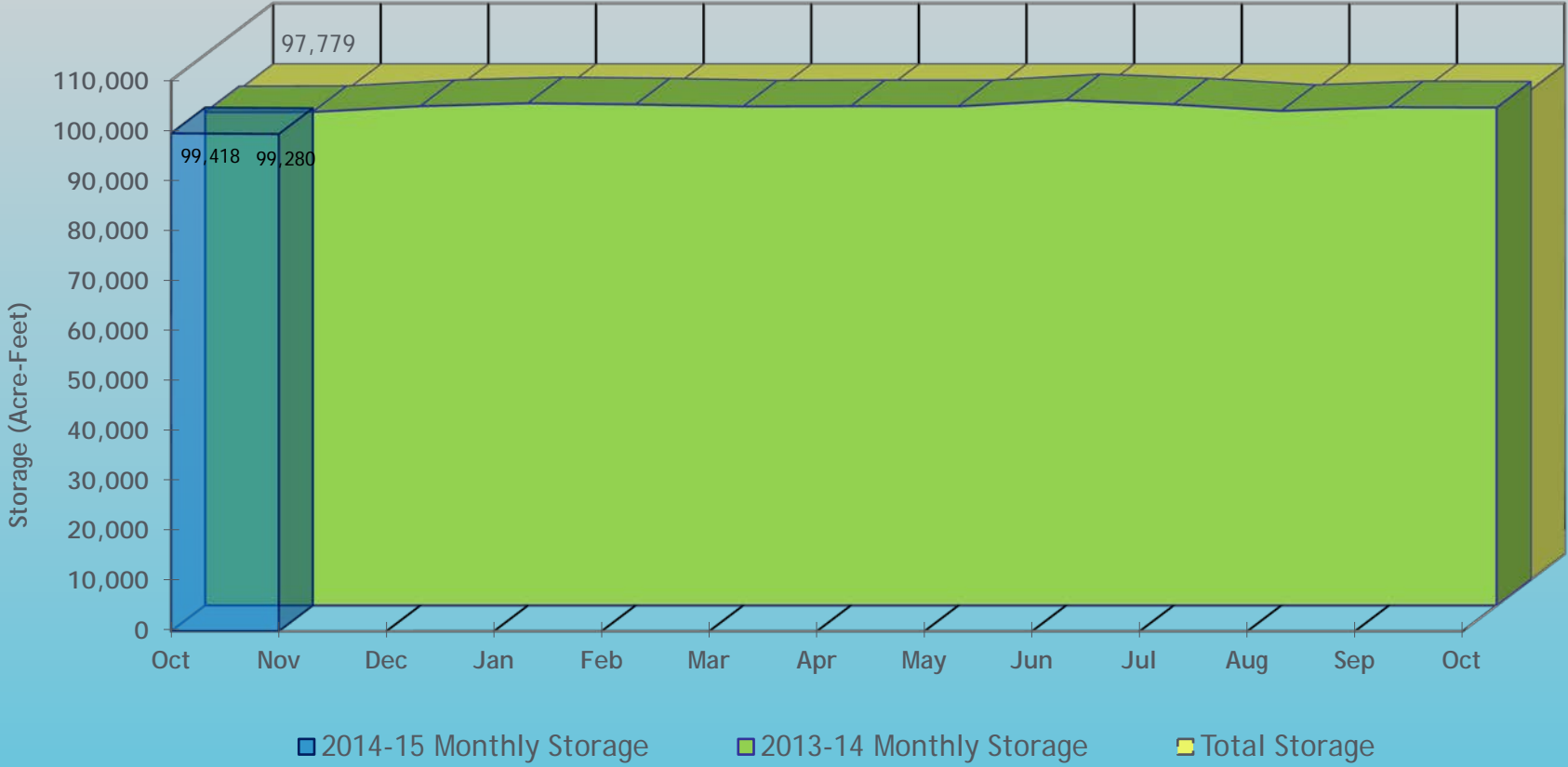
# Cheesman Reservoir (District 80 - Municipal)



# Spinney Mountain Reservoir (District 23 - Municipal)



# Eleven Mile Reservoir (District 23 - Municipal)





# Lake Granby

