



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

## South Platte Summary September 2023

Compiled by Lee Cunning, P.E.

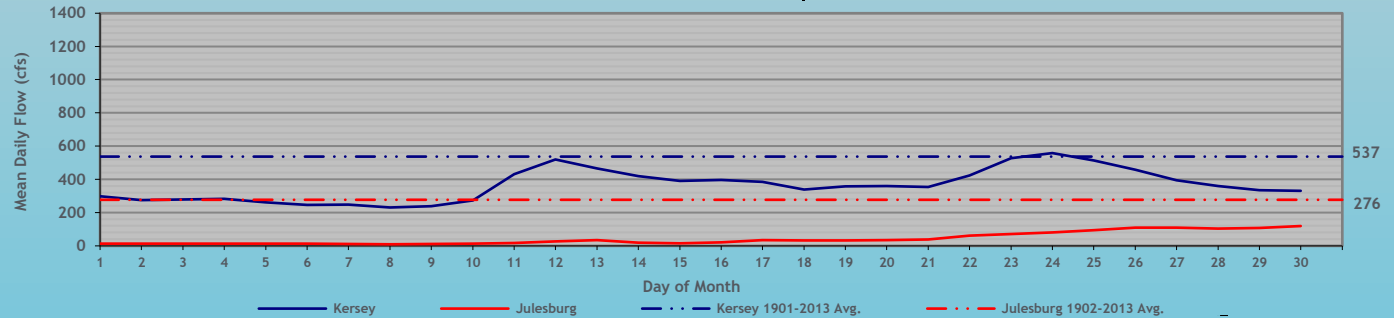
# COLORADO DIVISION OF WATER RESOURCES, DIVISION 1

## MONTH OF September 2023

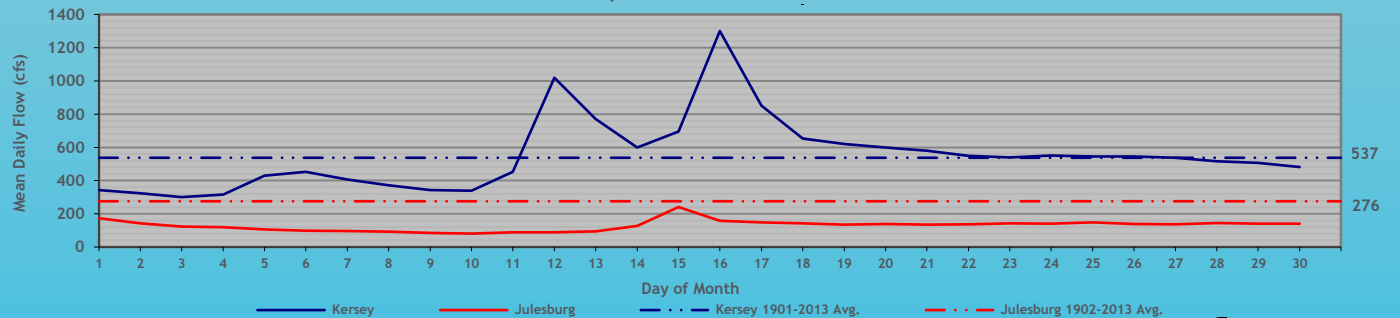
RESERVOIR	FULL ALLOWABLE CAPACITY (ACRE FEET)	FIRST OF MONTH (ACRE FEET)	END OF MONTH (ACRE FEET)	DISTRICT	CHANGE IN STORAGE (ACRE FEET)	% CHANGE IN STORAGE BASED ON FIRST OF MONTH STORAGE	% OF CURRENT FULL ALLOWABLE CAPACITY	% OF CURRENT FULL ALLOWABLE CAPACITY THIS MONTH LAST YEAR	SURCHARGE (ACRE FEET)
JULESBURG	22,666	8,316	8,501	64	185	2%	38%	4%	0
N STERLING	73,730	38,505	28,567	64	-9,938	-26%	39%	6%	0
PREWITT	28,500	22,407	19,391	64	-3,016	-13%	68%	25%	0
JACKSON	27,257	24,473	21,320	1	-3,153	-13%	78%	4%	0
EMPIRE	37,700	19,394	16,661	1	-2,733	-14%	44%	8%	0
RIVERSIDE	63,113	35,337	27,821	1	-7,516	-21%	44%	13%	0
BARR LAKE	32,152	17,014	32,027	2	15,013	88%	100%	11%	0
CHEESMAN	79,064	77,743	76,684	80	-1,059	-1%	97%	94%	0
ELEVEN MILE	97,779	99,830	99,446	23	-384	0%	100%	100%	1,667
SPINNEY	53,651	49,568	38,682	23	-10,886	-22%	72%	73%	0
ANTERO	20,015	20,122	19,816	23	-306	-2%	99%	100%	0

**KERSEY and JULESBURG  
September 2022**

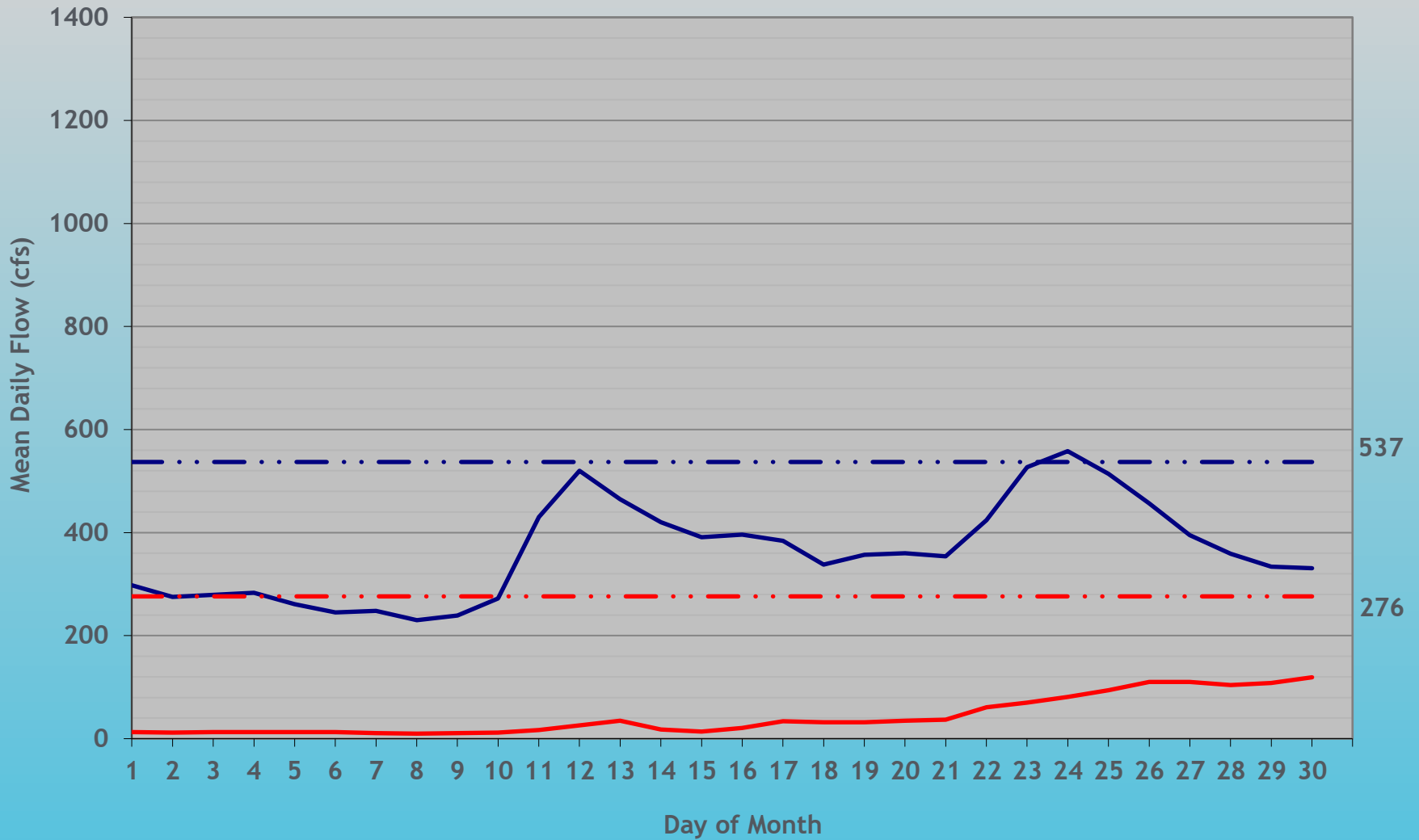
RIVER GAGES	MEAN DAILY FLOW (CFS)
<b>KERSEY</b>	<b>552</b>
<b>JULESBURG</b>	<b>130</b>
<b>THIS MONTH LAST YEAR</b>	
<b>KERSEY</b>	<b>365</b>
<b>JULESBURG</b>	<b>43</b>
<b>MEAN FOR PERIOD OF RECORD*</b>	
<b>KERSEY</b>	<b>537</b>
<b>JULESBURG</b>	<b>276</b>
*Kersey 1901 - 2016	*Julesburg 1902 - 2016



**KERSEY and JULESBURG  
September 2023**



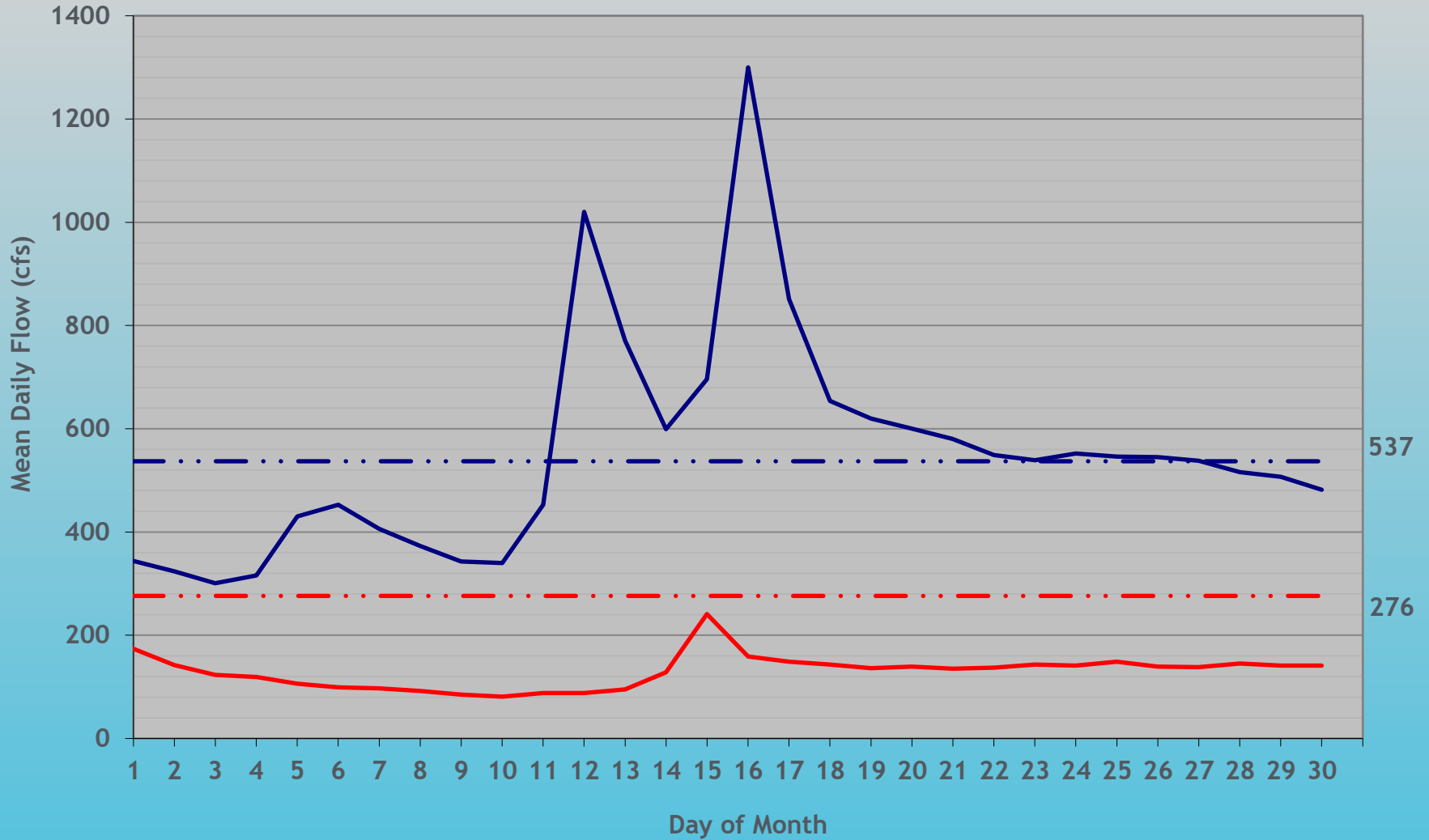
# KERSEY and JULESBURG September 2022



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

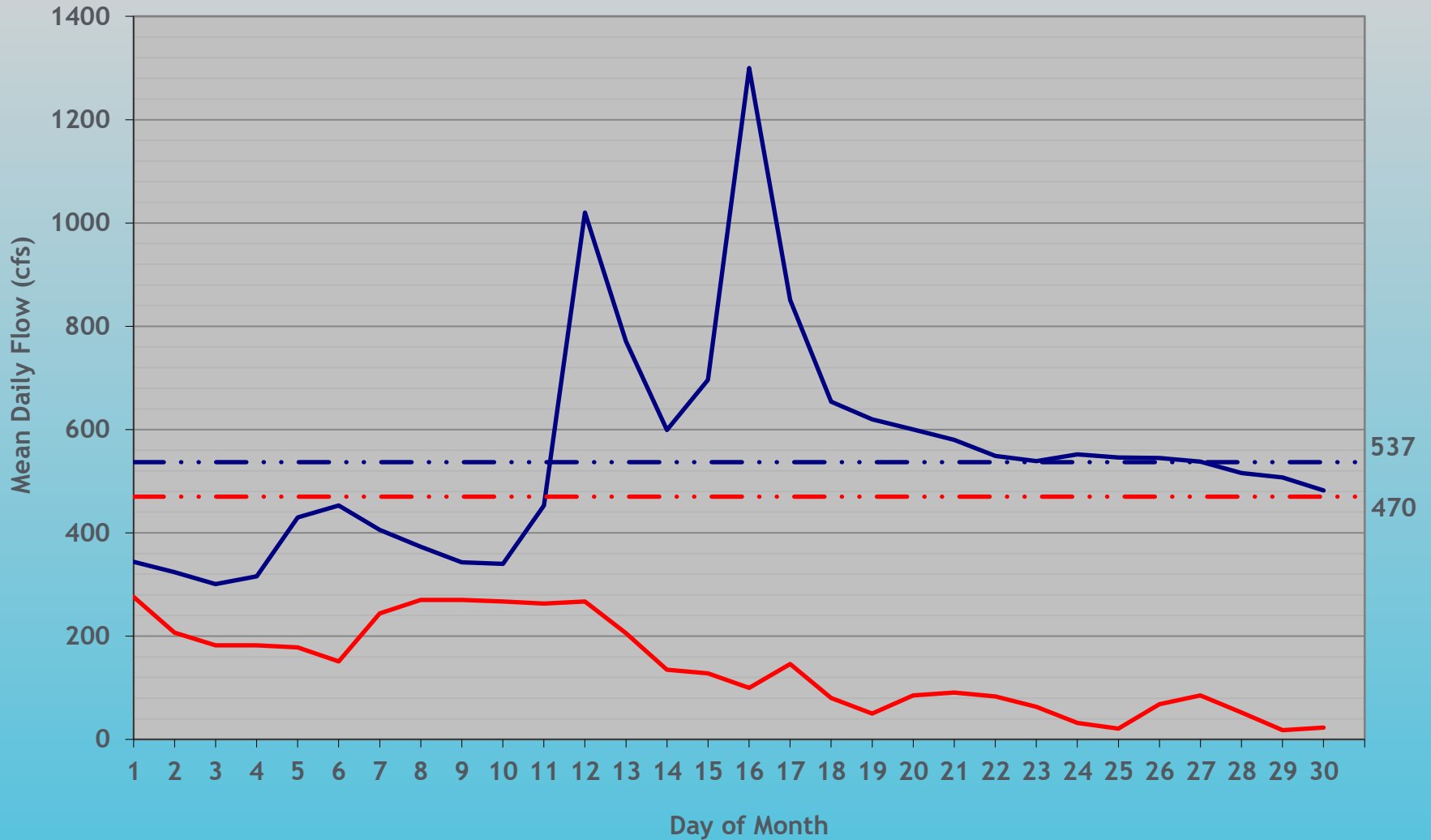


# KERSEY and JULESBURG September 2023



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

# KERSEY and BALZAC September 2023





# South Platte River Monthly Stream Flow (cfs) Statistics

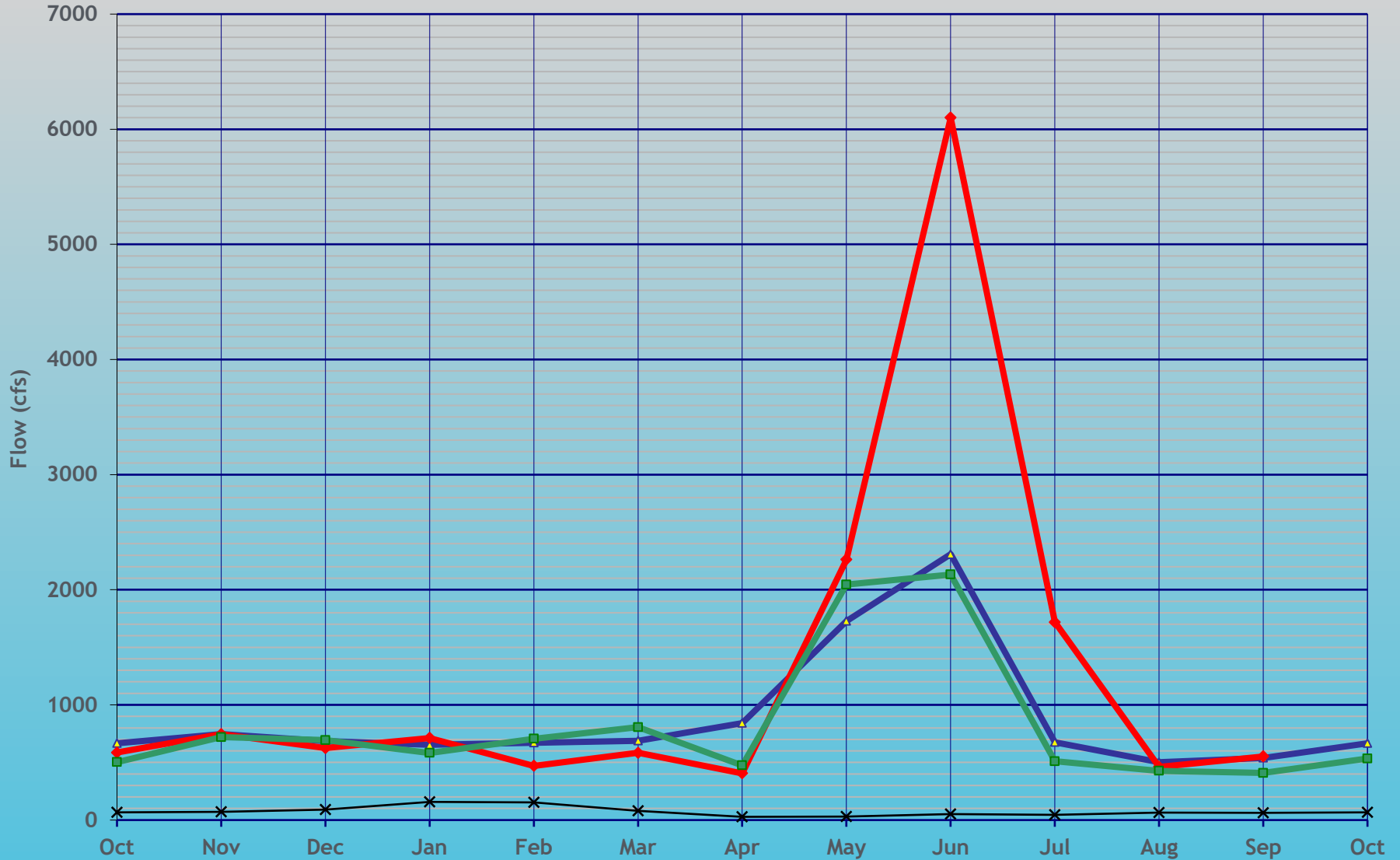
## South Platte River at Kersey

## South Platte River at Julesburg

Month	Historic*		Year	Historic*		IY 2023 Mean Monthly Flow	Month	Historic*		Year	Historic*		IY 2023 Mean Monthly Flow
	Mean Flow	Max Flow		Min Flow	Year			Mean Flow	Max Flow		Min Flow	Year	
Oct	667	6180	1984	66	1954	586	Oct	299	3130	1984	4.2	1903	94
Nov	747	3650	1984	70	1934	746	Nov	335	2900	1984	4.2	1903	28
Dec	685	1890	1961	91	1934	624	Dec	401	1820	1984	13	2002	116
Jan	652	2160	1974	158	1935	712	Jan	512	2510	1970	21	2003	161
Feb	671	3060	1914	152	1935	470	Feb	578	3220	1930	29	2005	311
Mar	688	3470	1983	80	1935	583	Mar	512	12900	1910	15	1904	219
Apr	842	18100	1942	28	1955	405	Apr	514	14400	1942	4.0	1904	147
May	1728	26100	1973	29	1955	2262	May	994	18100	1973	12	1911	1081
Jun	2308	31000	1921	52	1954	6100	Jun	1426	30800	1921	2.0	1910	5771
Jul	675	12600	1983	44	1955	1718	Jul	311	12600	1983	0.0	1903	2304
Aug	501	9690	1951	65	1934	461	Aug	178	8920	1968	0.0	1903	231
Sep	539	14200	1938	62	1940	552	Sep	284	7130	1938	2.0	1902	130
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



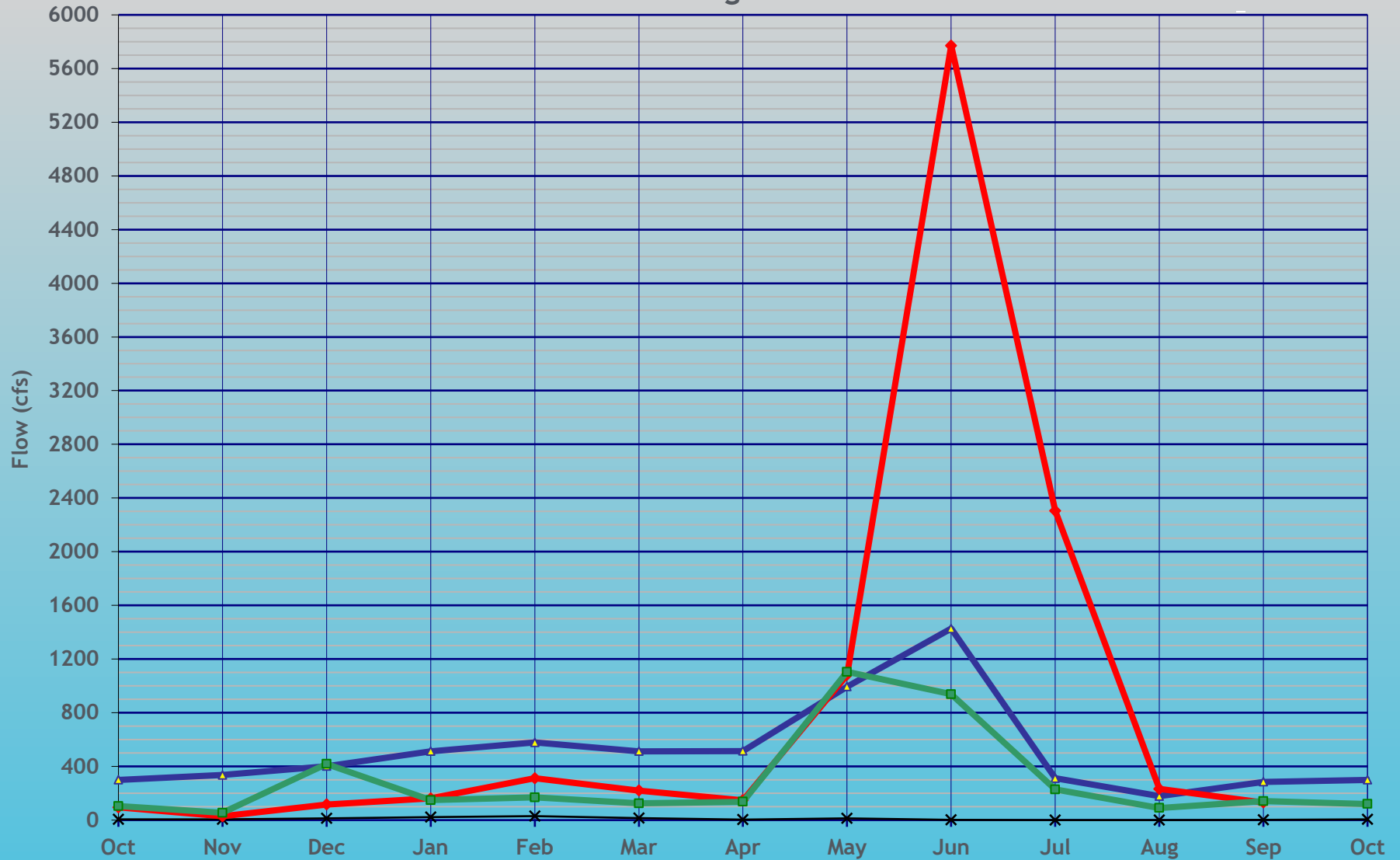
Historic\* Mean Flow    Historic\* Min Flow    2022-2023 Mean Flow    2021-2022 Mean Flow

\*1901-2016



# South Platte River at Julesburg

Irrigation Year



Historic\* Mean Flow

Historic\* Min Flow

2022-2023 Mean Flow

2021-2022 Mean Flow

\*1901-2016





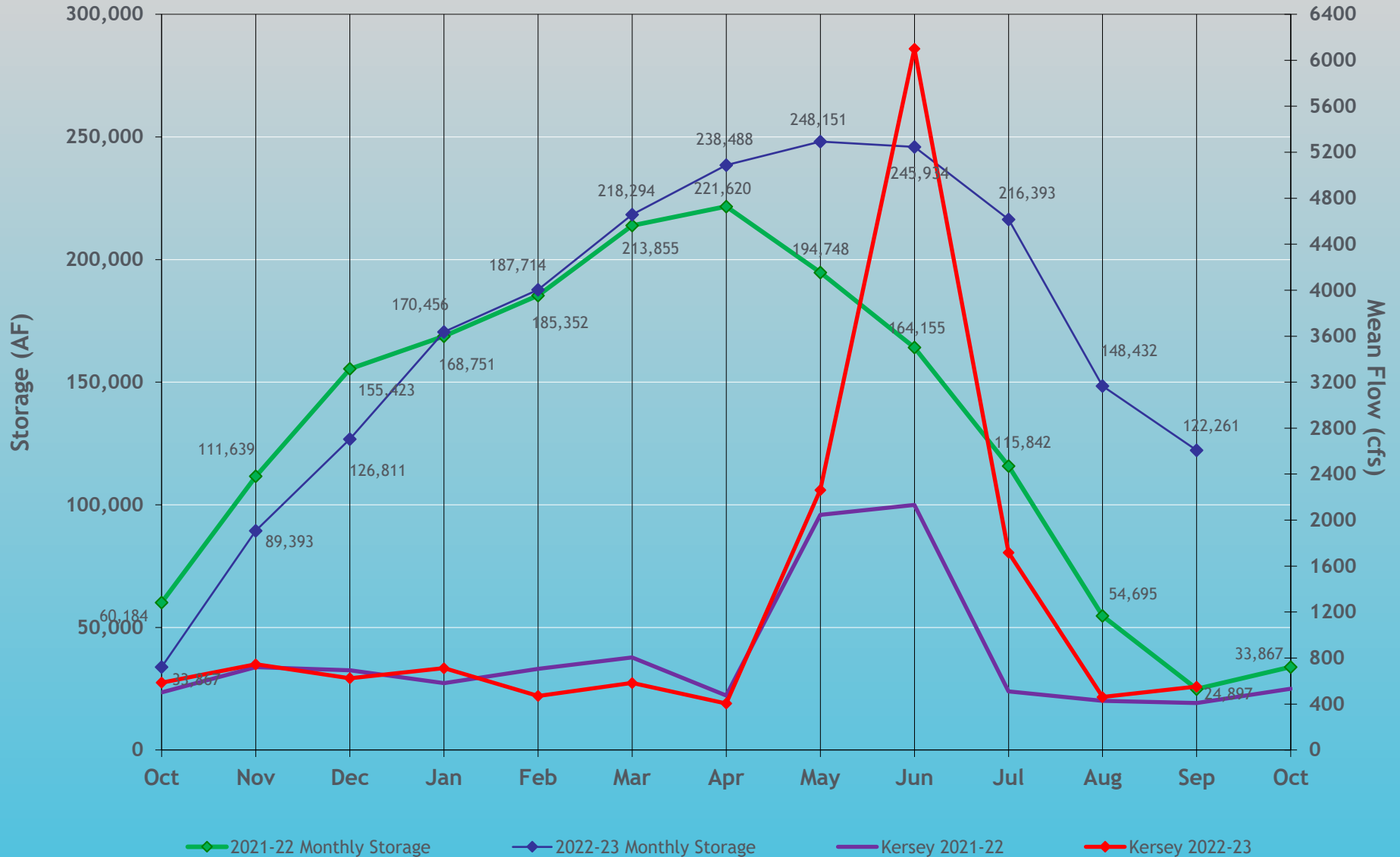


Next three slides show Reservoir Storage above and below Kersey



# Reservoir Storage below Kersey

Selected Reservoirs\*



2021-22 Monthly Storage

2022-23 Monthly Storage

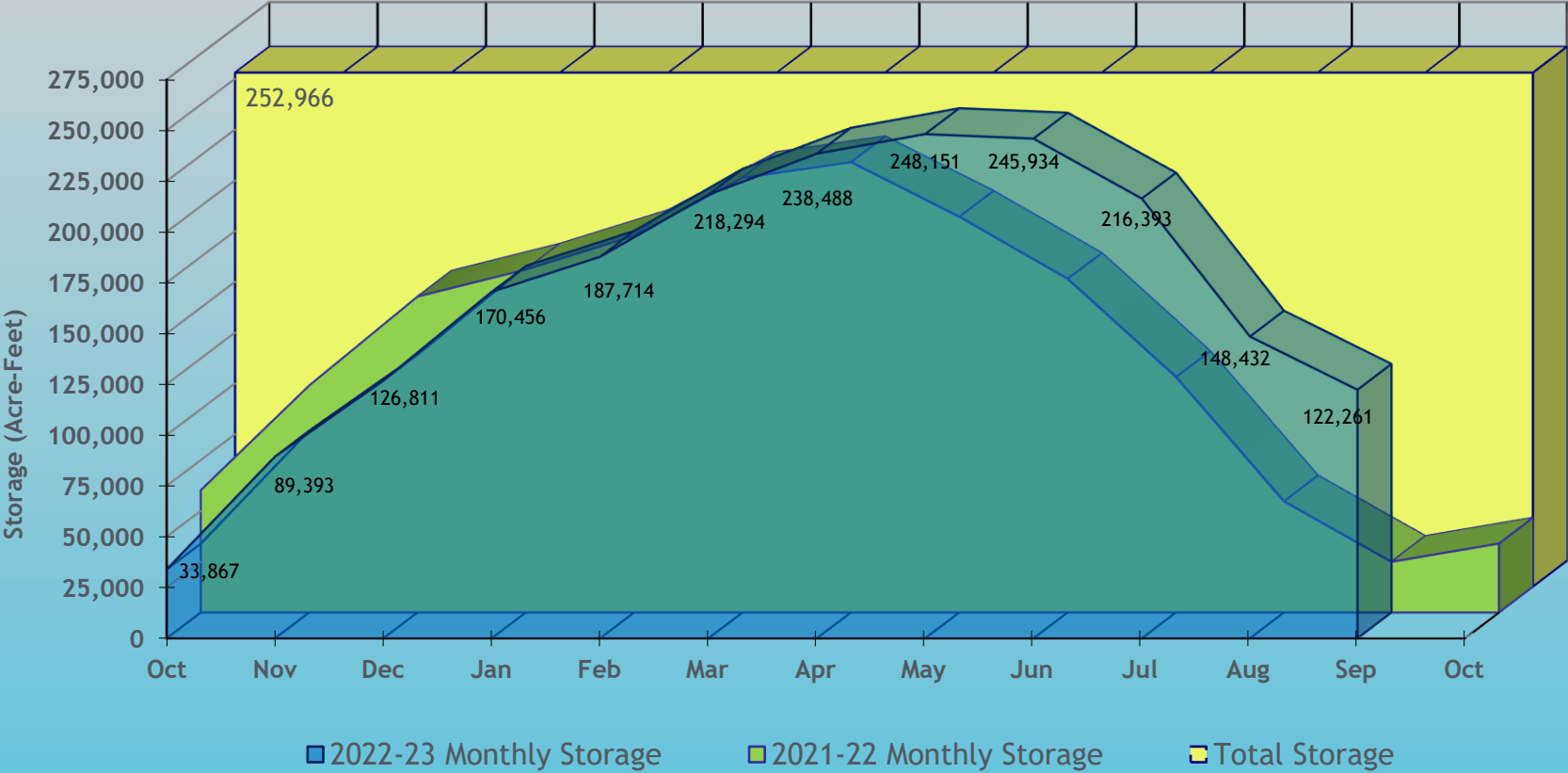
Kersey 2021-22

Kersey 2022-23



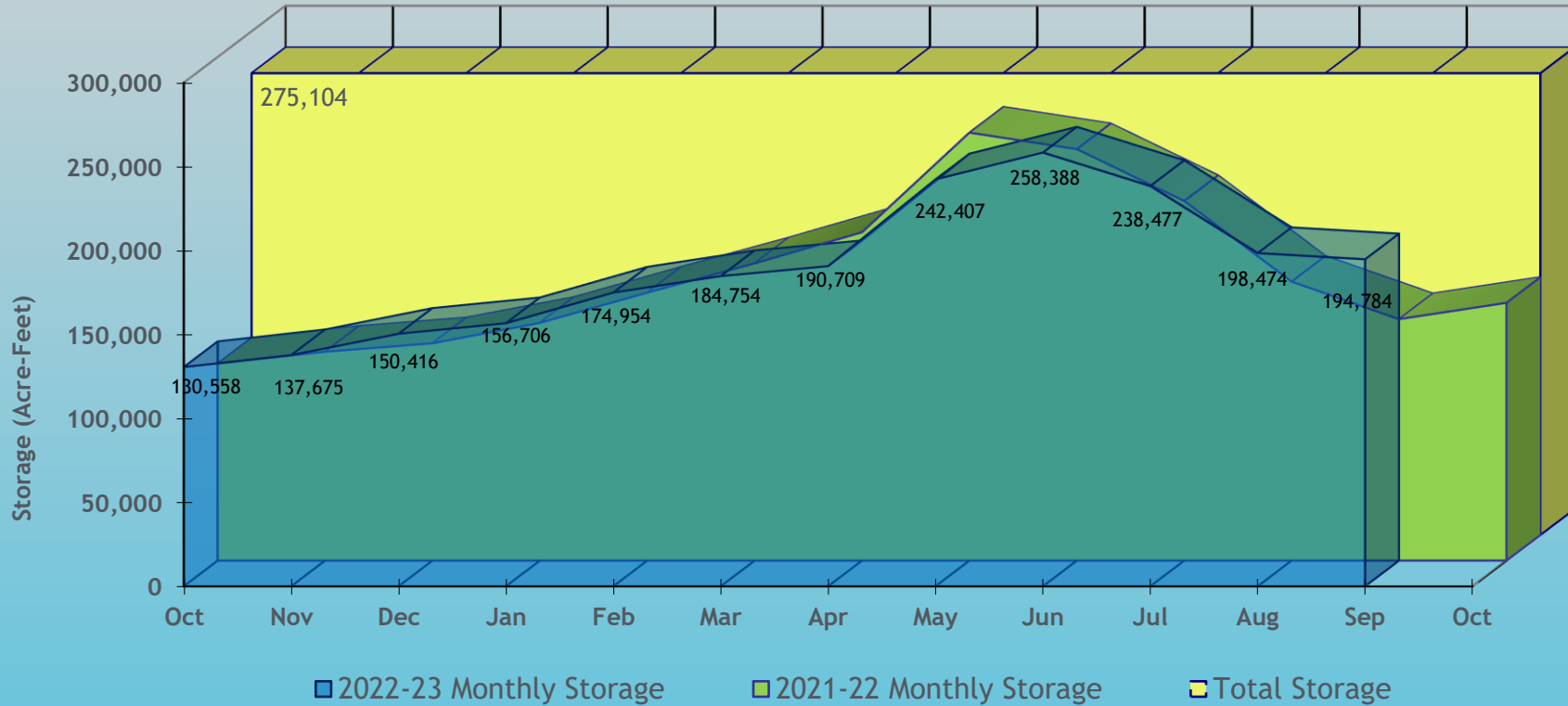
Empire, Riverside, Jackson, Prewitt, North Sterling, & Julesburg

# 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

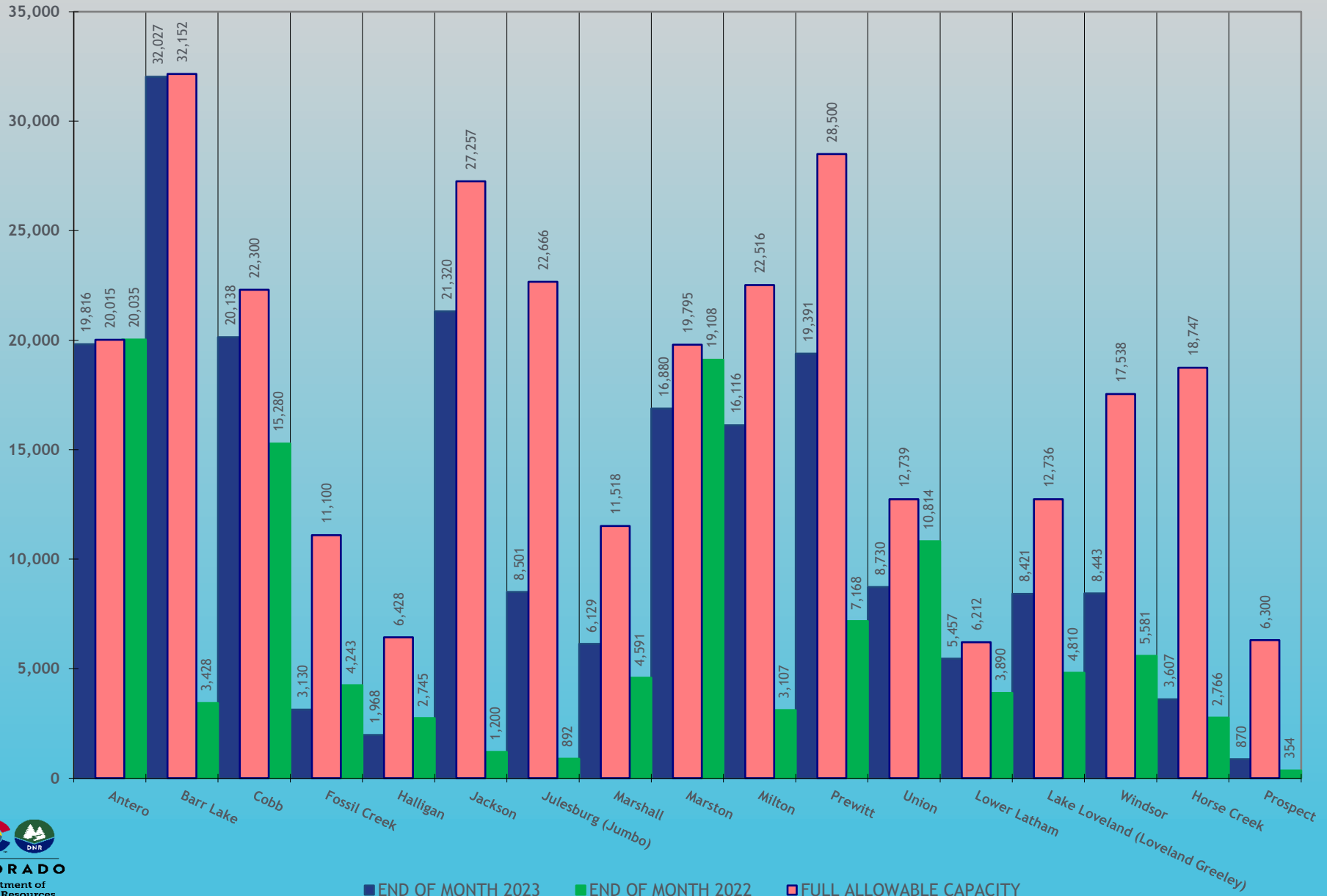




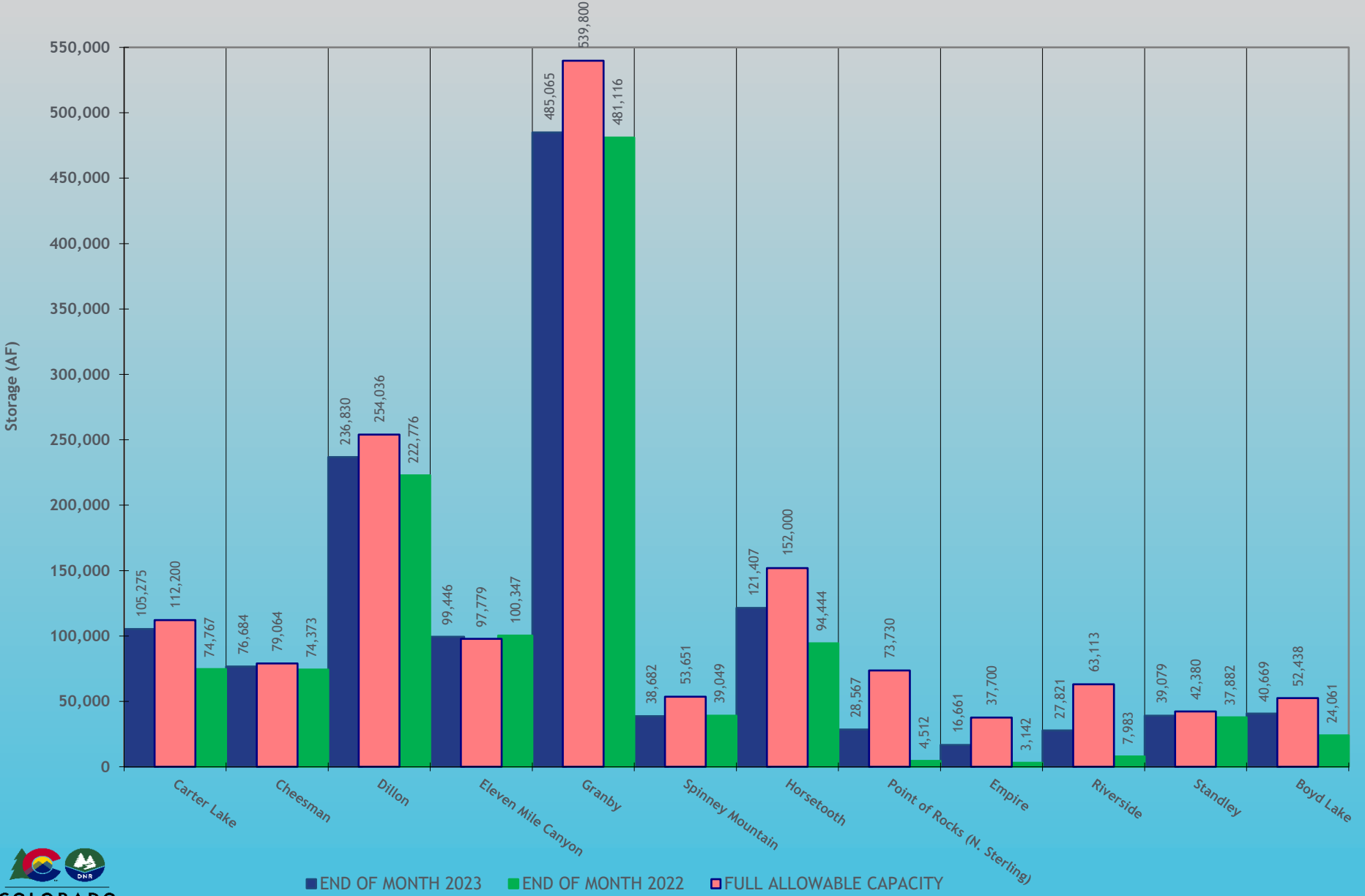
# Individual Reservoir Storage Follows



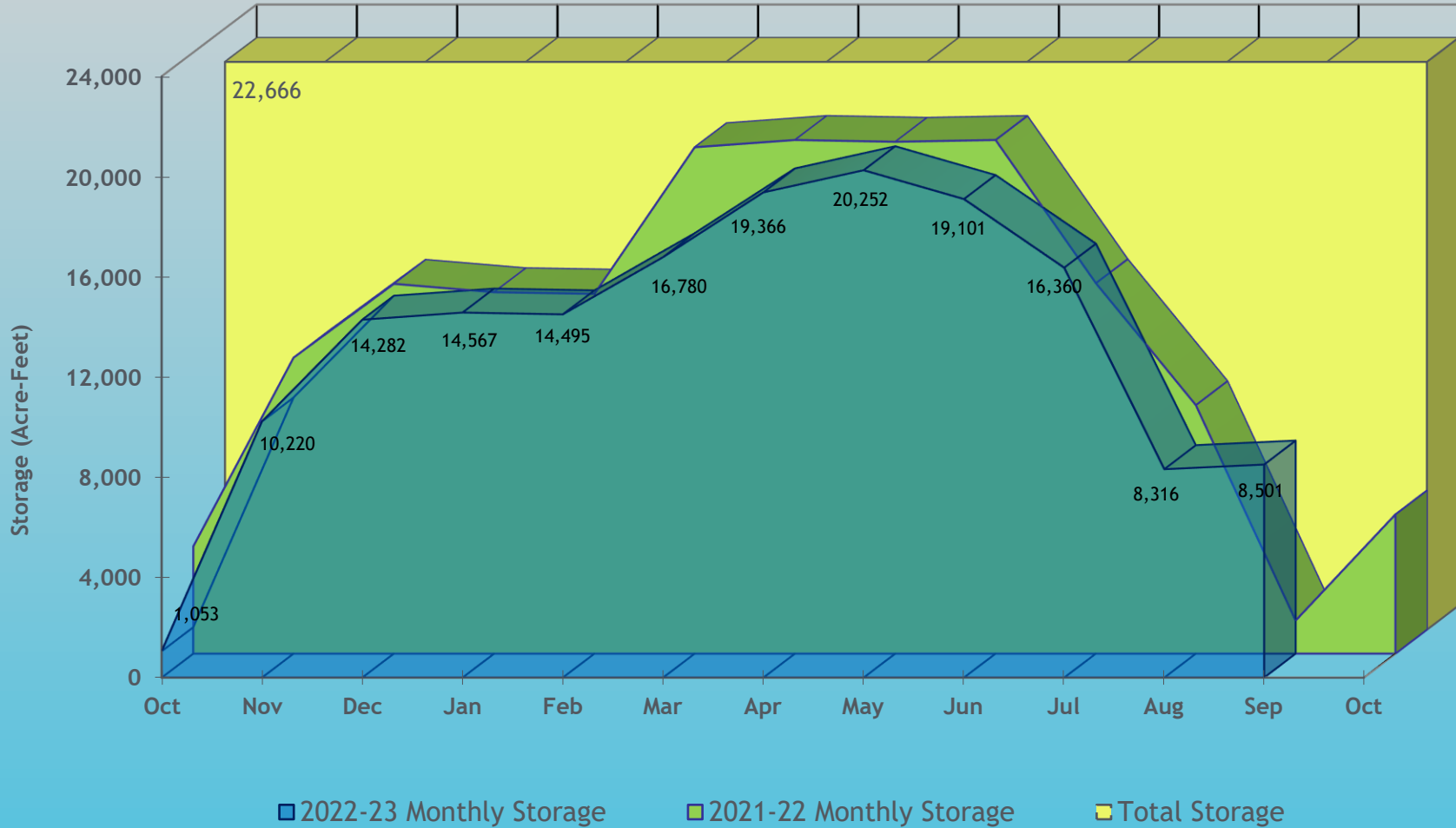
# September Reservoir Change in Storage IY2022 versus IY2023



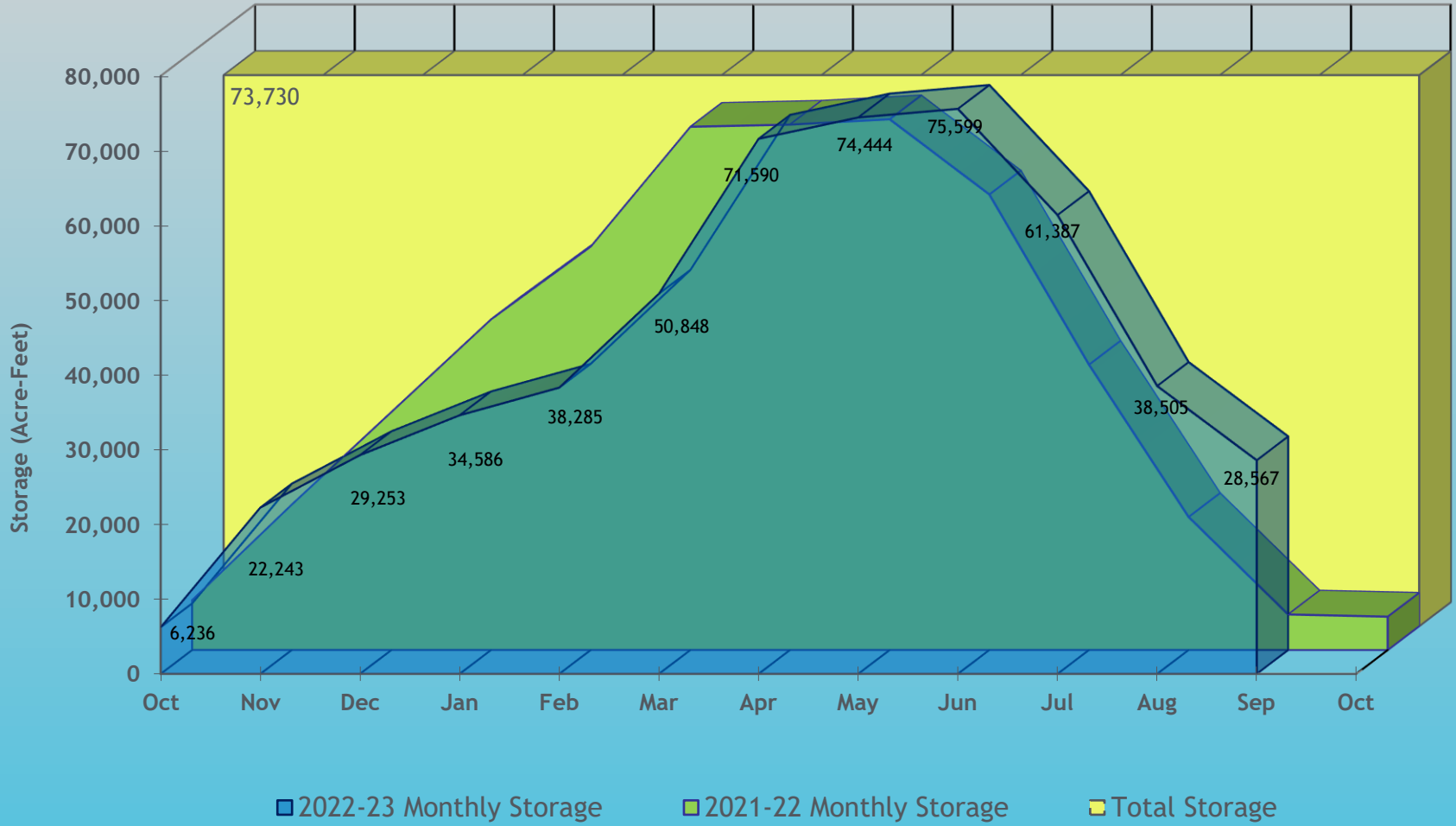
# September Reservoir Change in Storage IY2022 versus IY2023



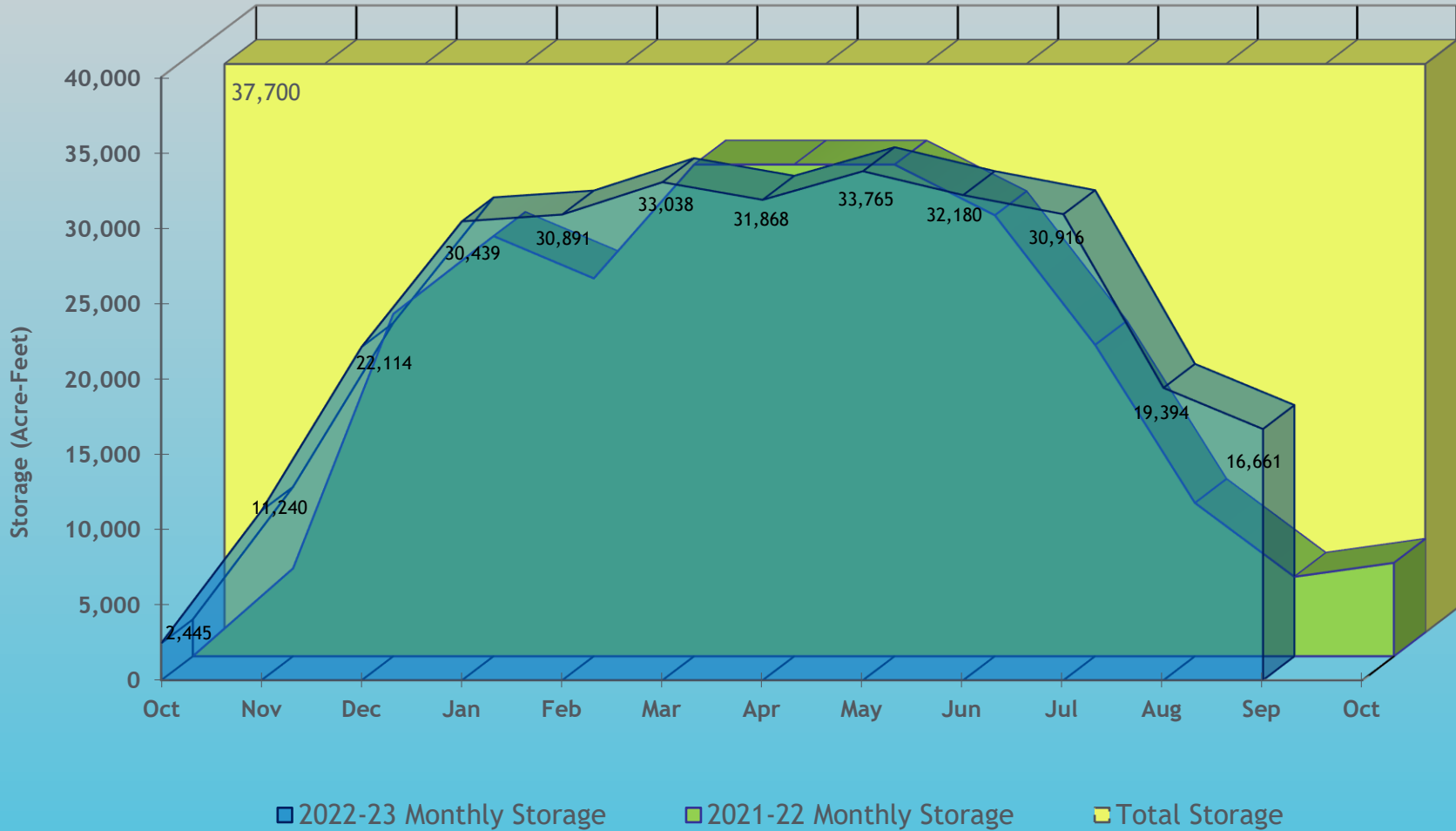
# Julesburg Reservoir (District 64 - Agricultural)



# North Sterling Reservoir (District 64 - Agricultural)

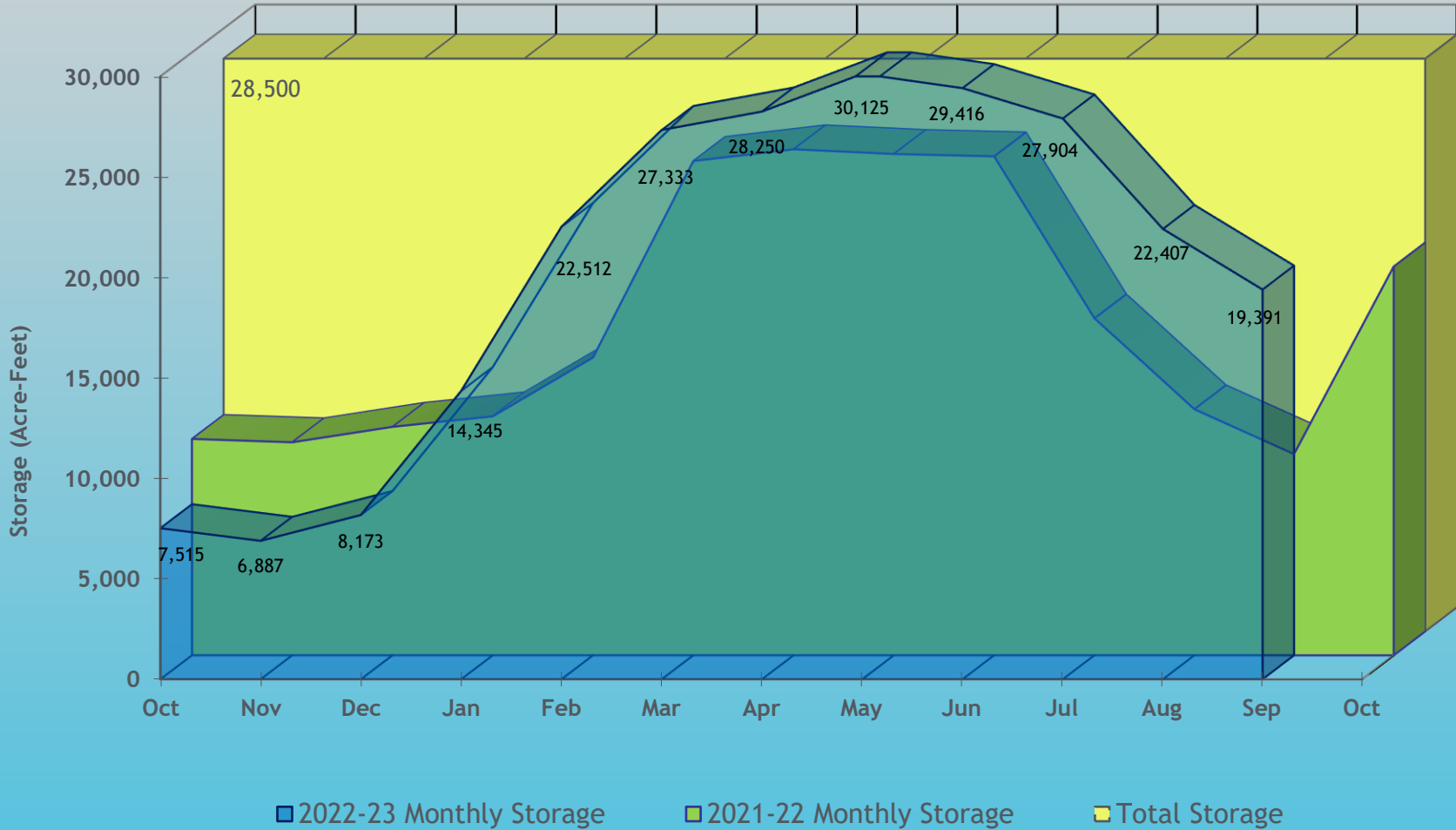


# Empire Reservoir (District 1 - Agricultural)

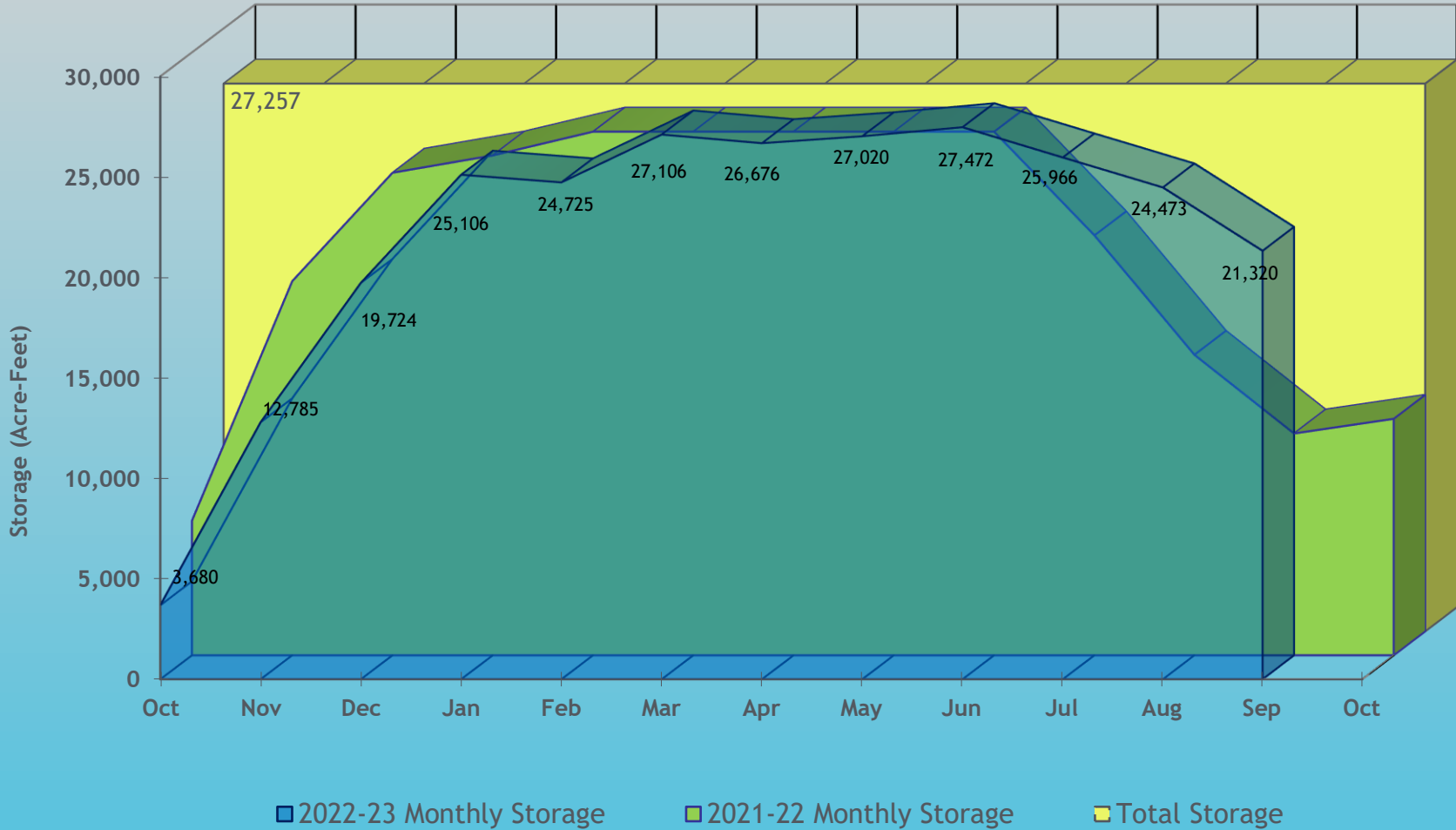




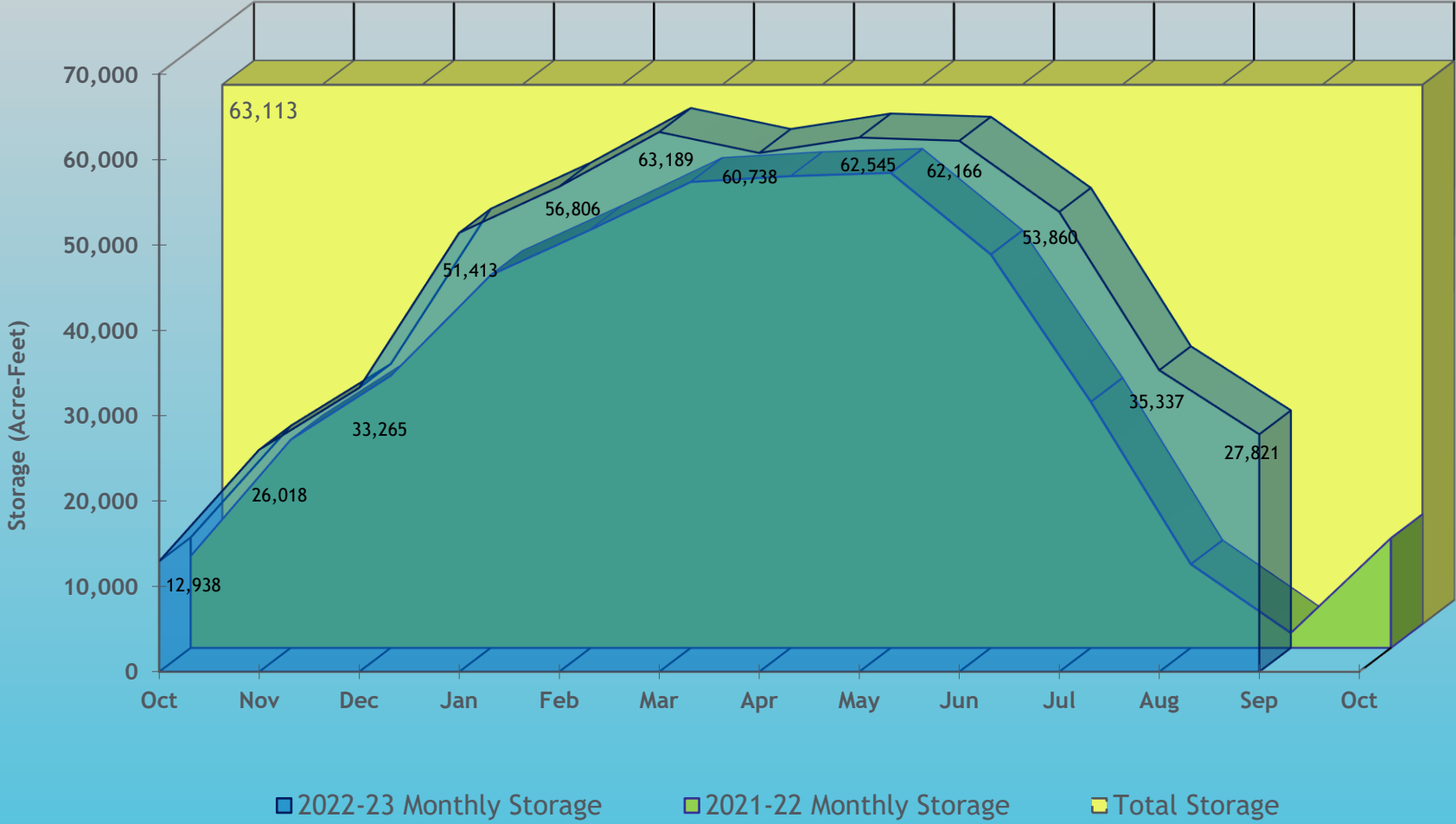
# Prewitt Reservoir (District 64 - Agricultural)



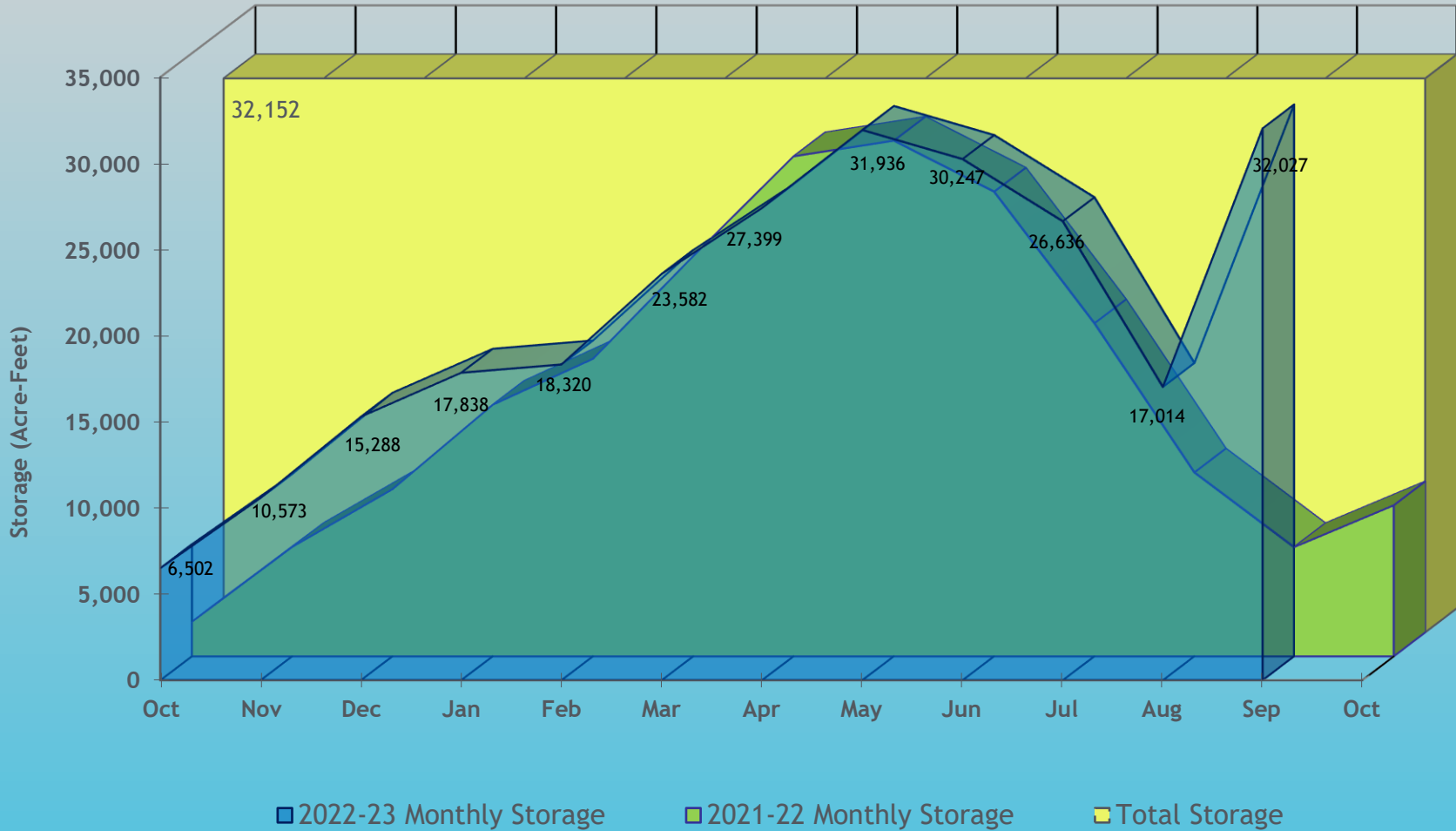
# Jackson Reservoir (District 1 - Agricultural)



# Riverside Reservoir (District 1 - Agricultural)



# Barr Reservoir (District 2 - Agricultural)

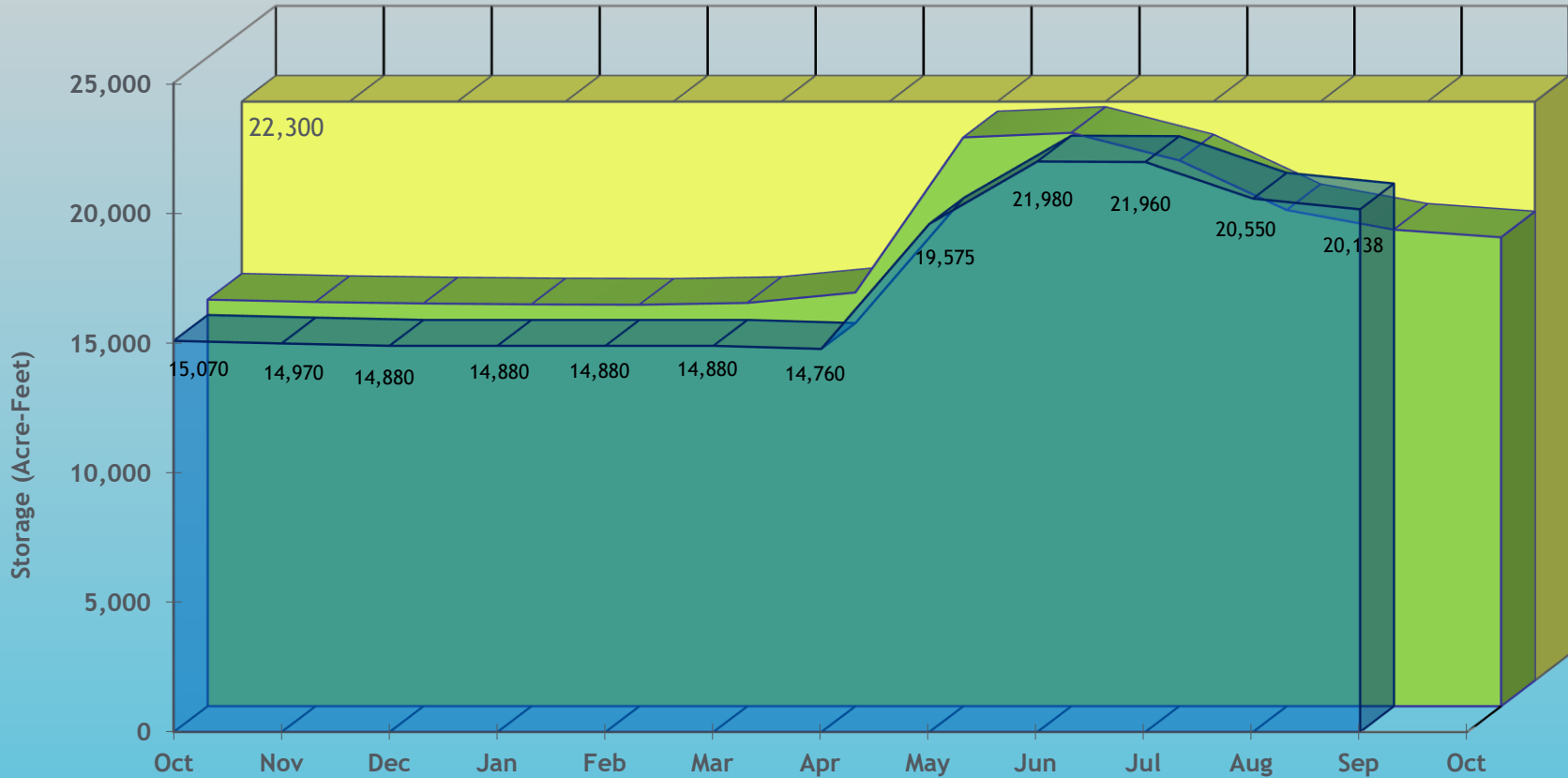


■ 2022-23 Monthly Storage

■ 2021-22 Monthly Storage

■ Total Storage

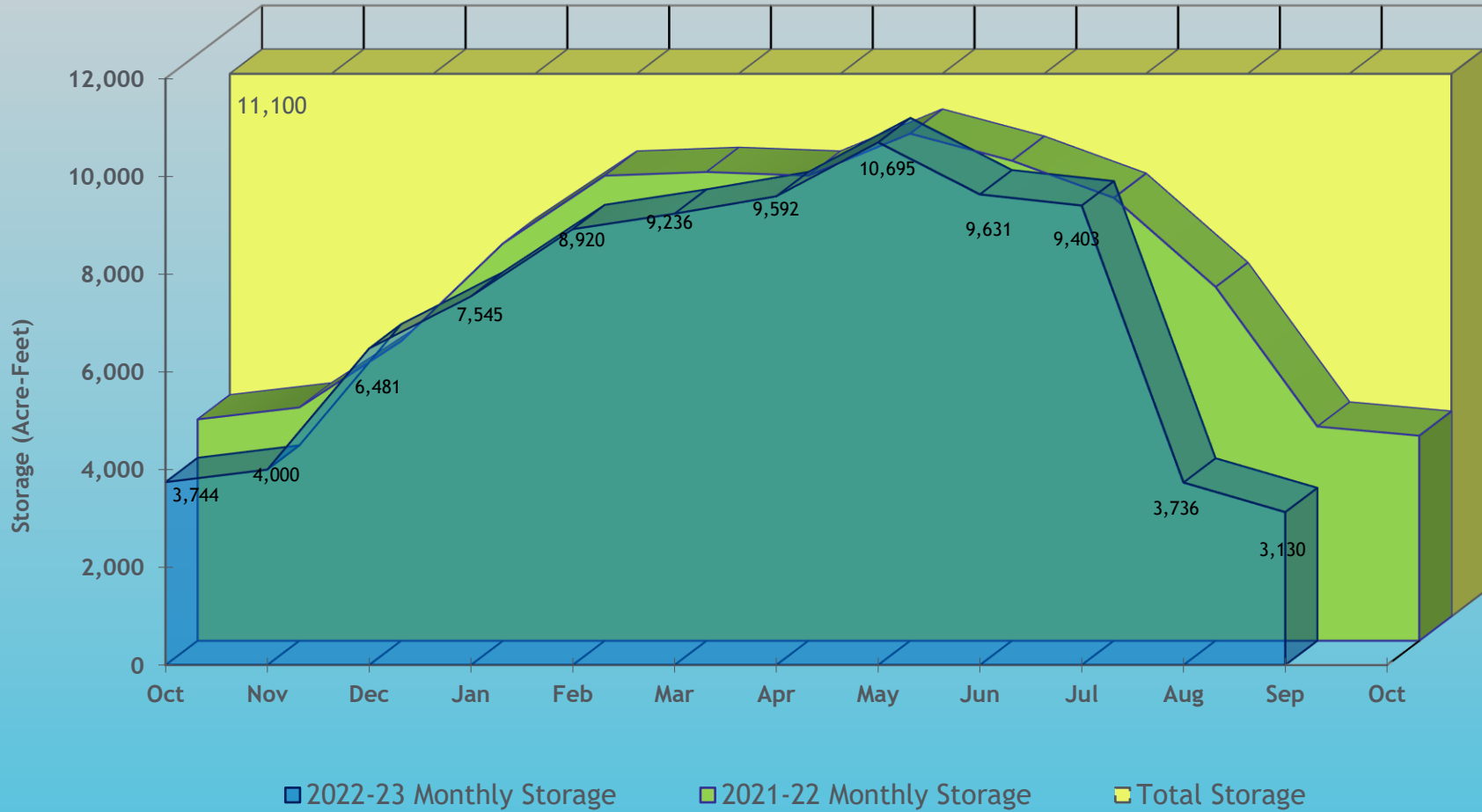
# Cobb Reservoir (District 3, Poudre River - Agricultural)



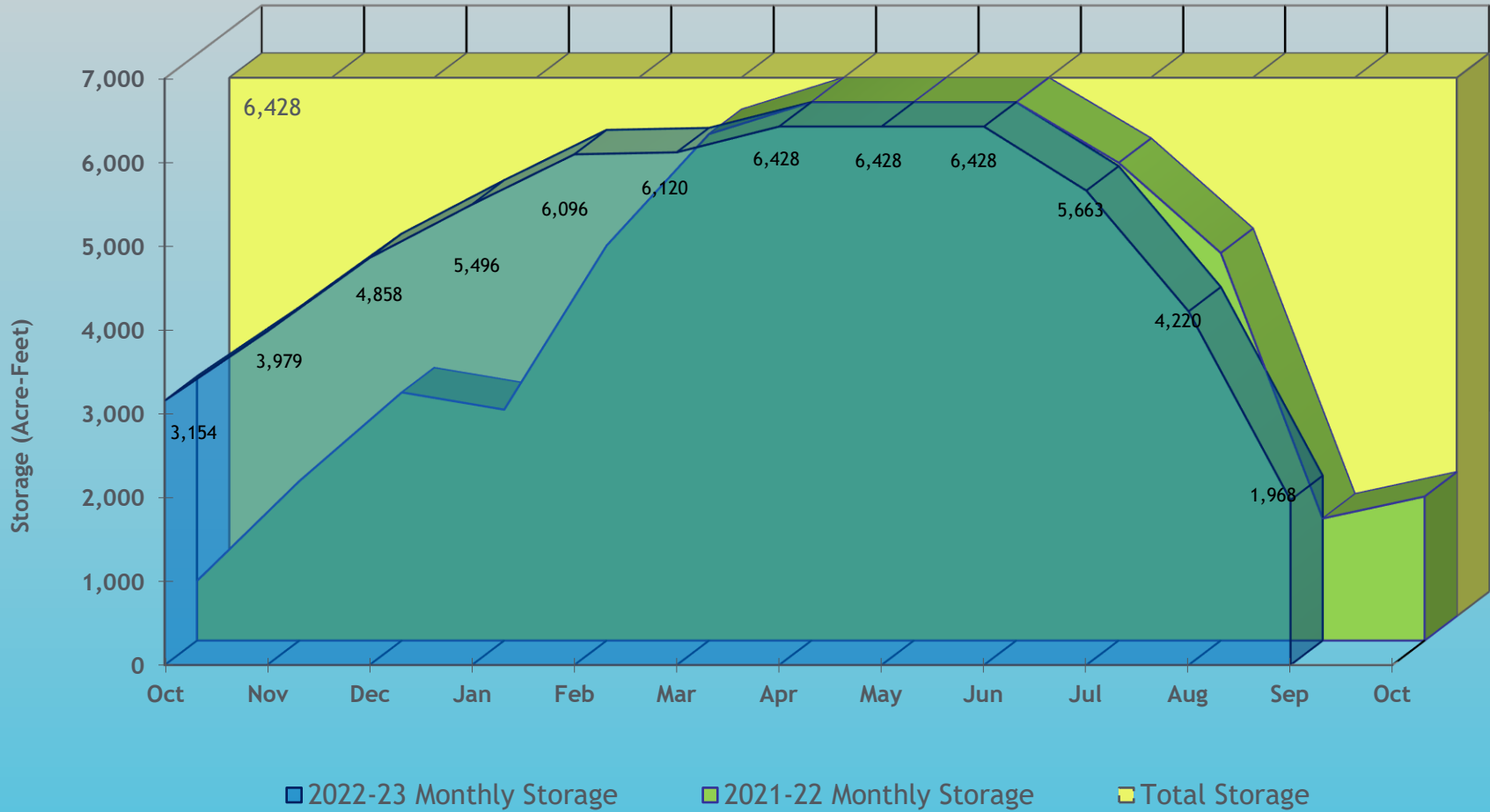
■ 2022-23 Monthly Storage    
 ■ 2021-22 Monthly Storage    
 ■ Total Storage



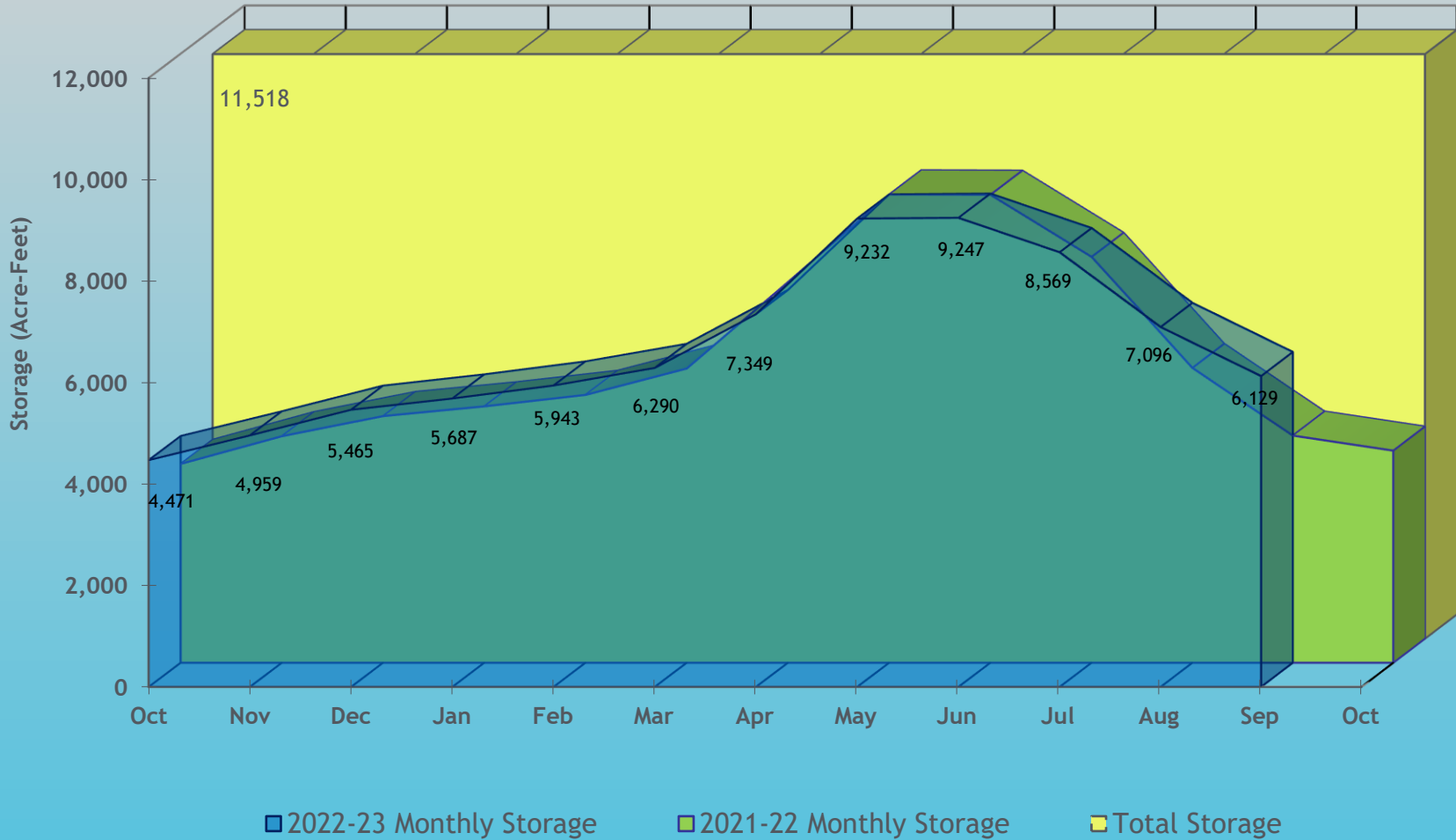
# Fossil Creek Reservoir (District 3, Poudre River - Agricultural)



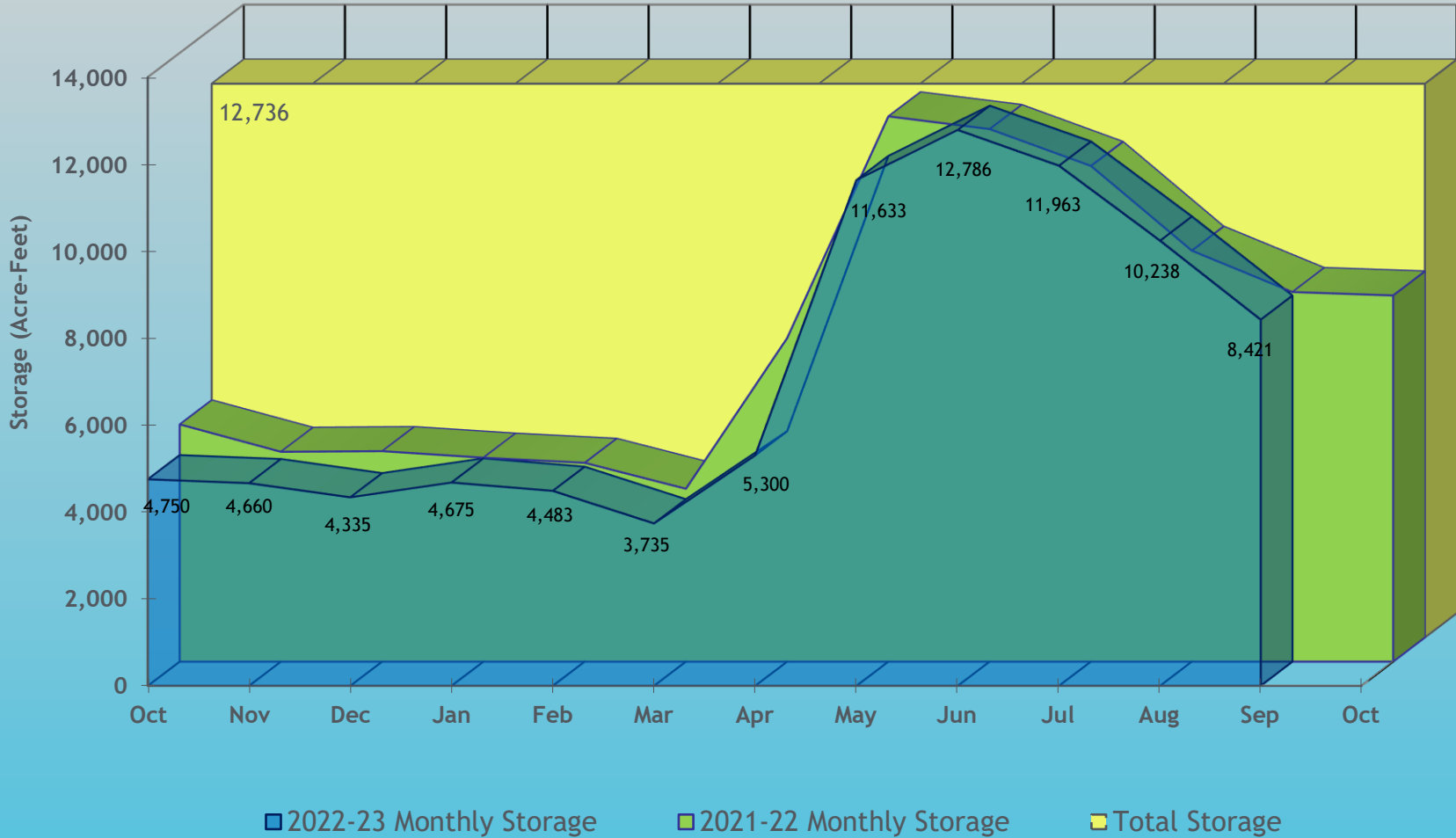
# Halligan Reservoir (District 3, Poudre River - Agricultural)



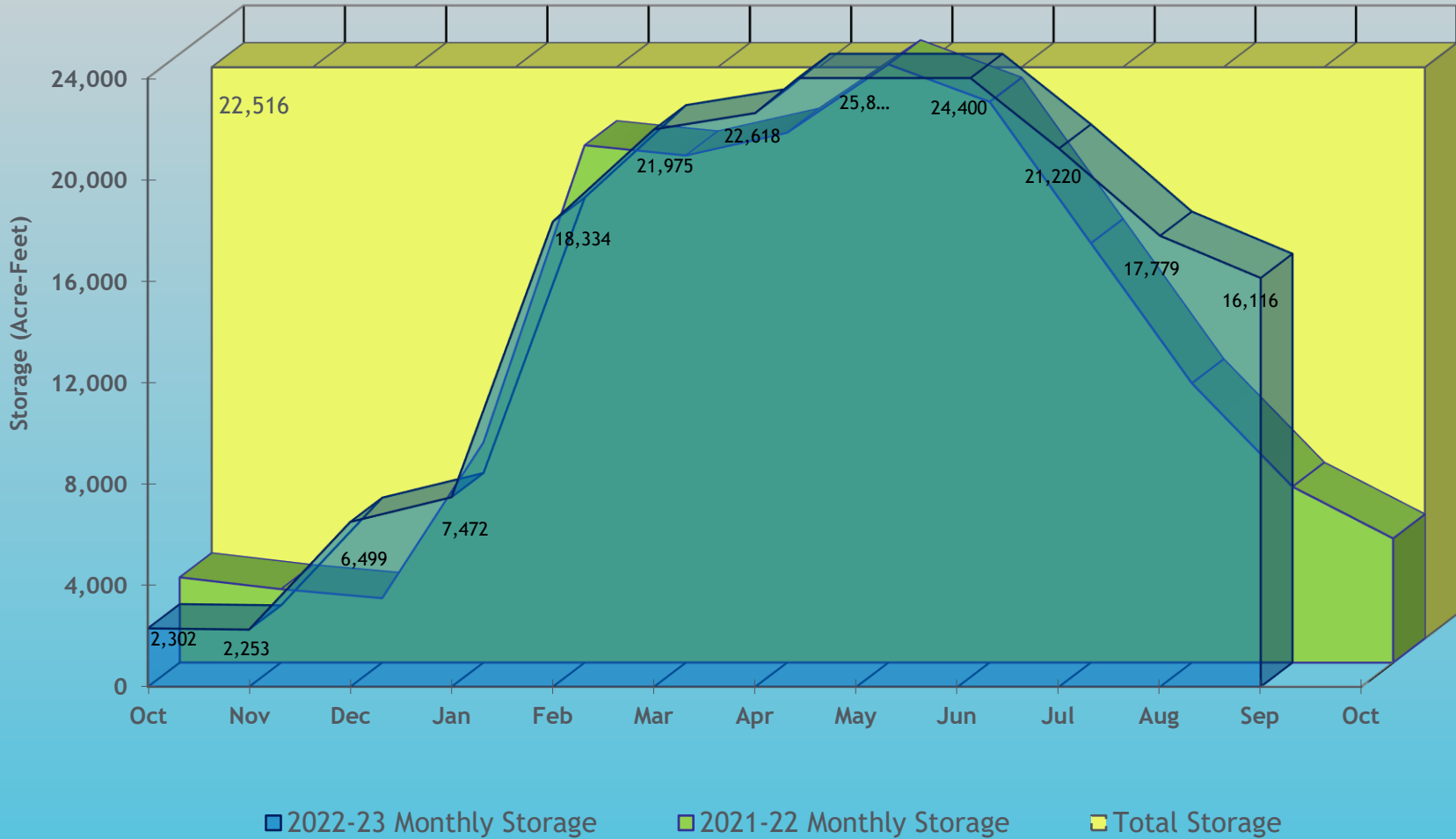
# Marshall Lake (District 6, Boulder Creek - Agricultural)



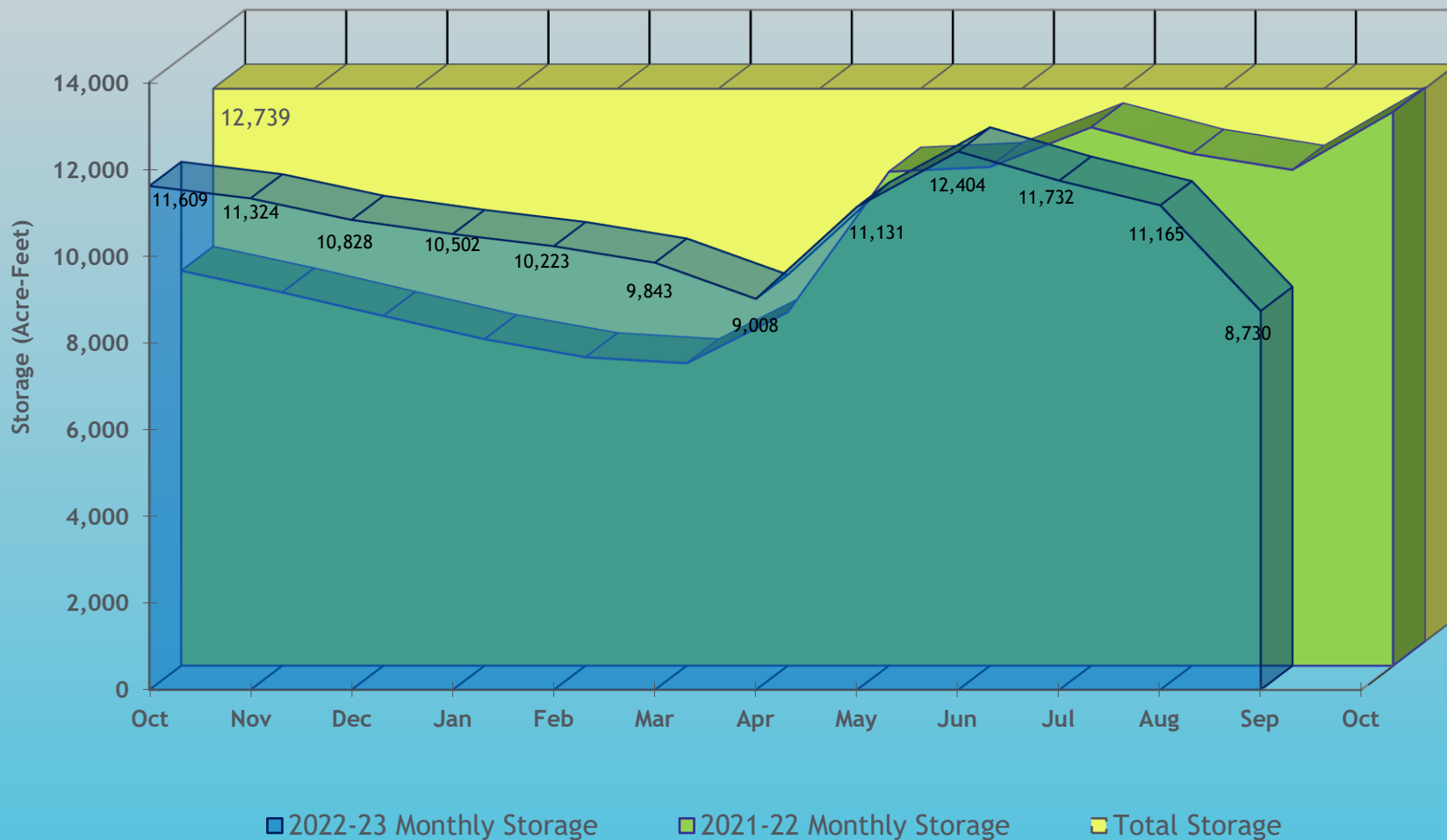
# Loveland Greeley Reservoir (District 4, Big Thompson River - Agricultural)



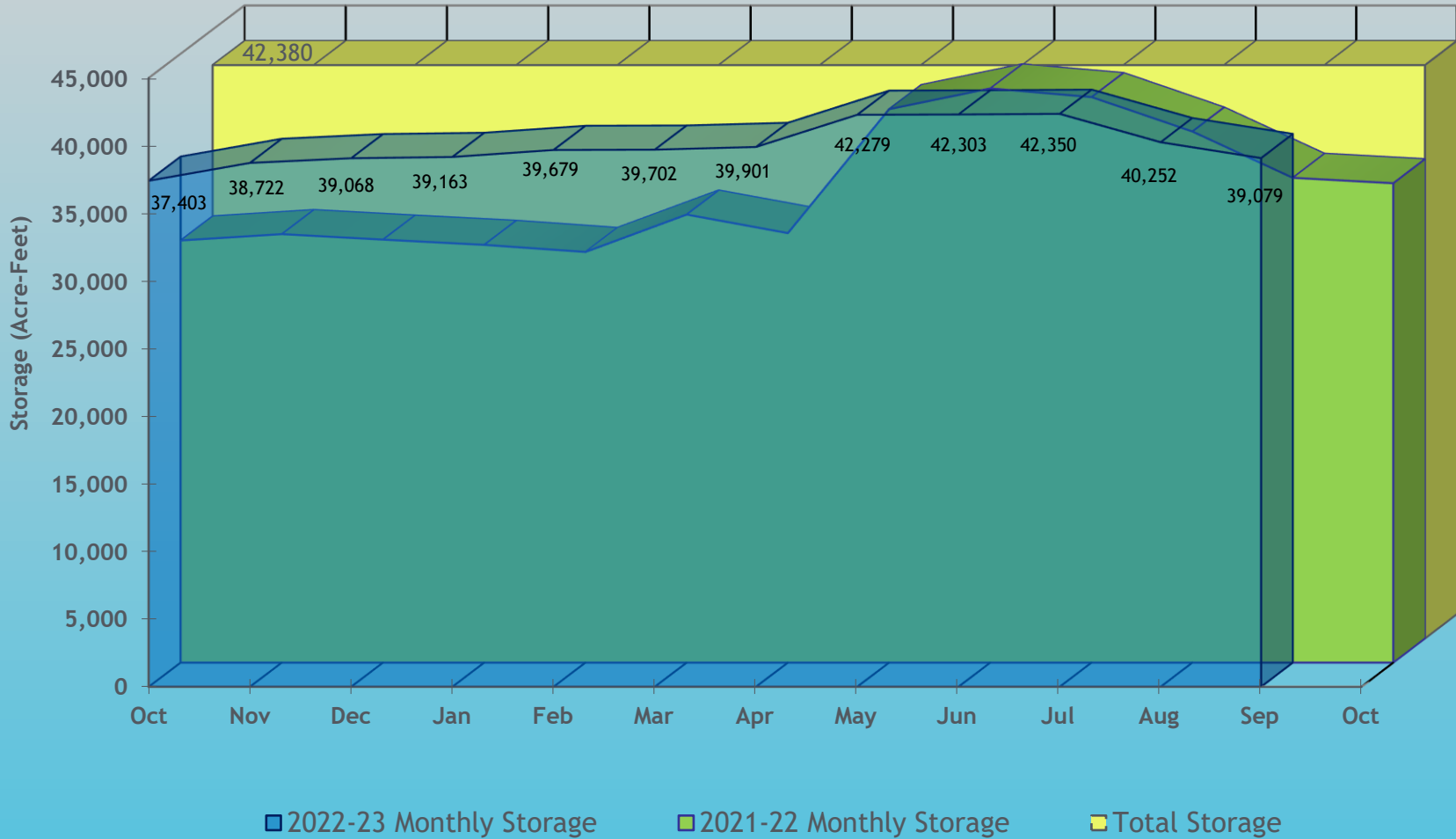
# Milton Reservoir (District 2 - Agricultural)



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

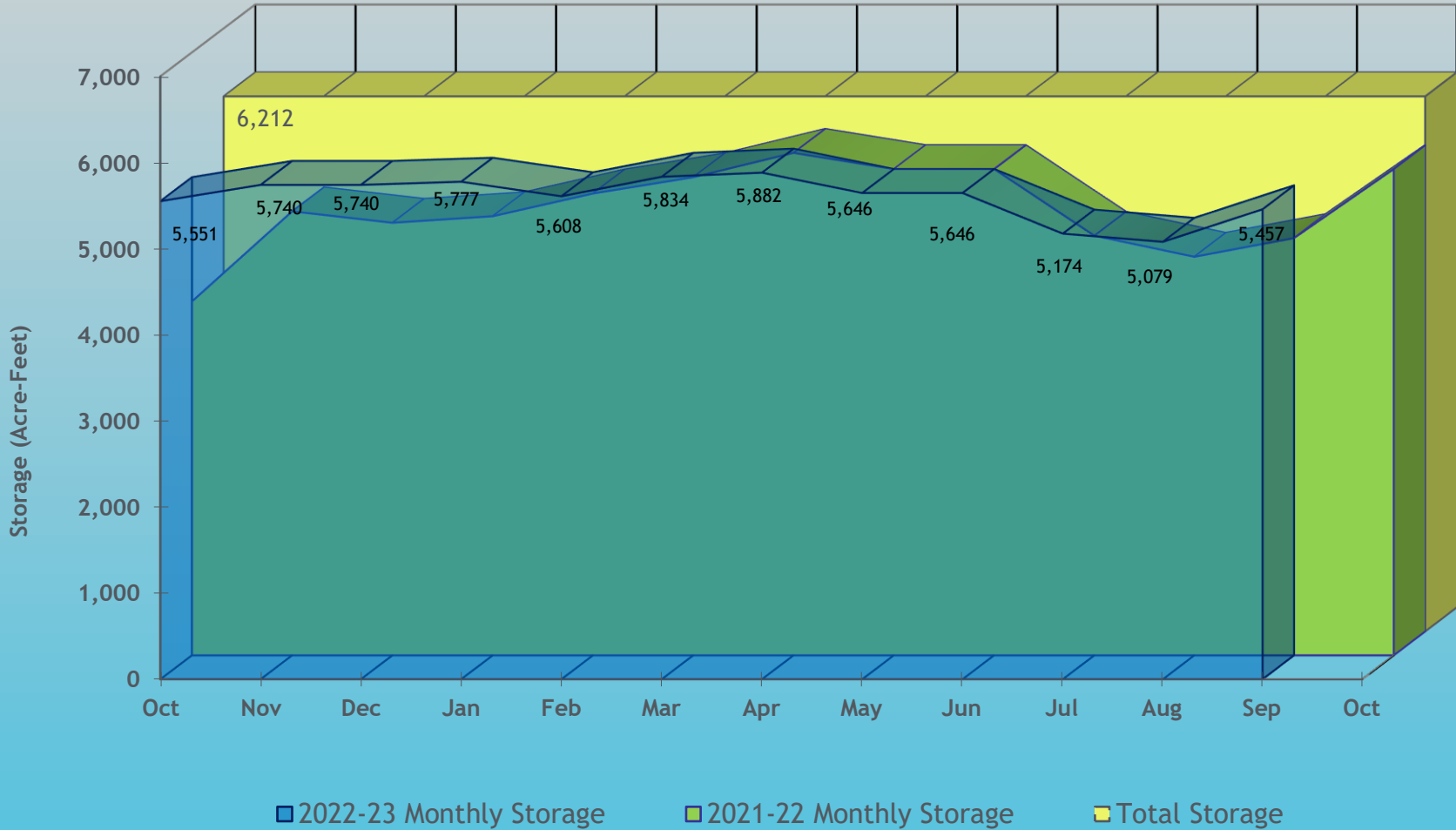


# Standley Lake (Agricultural)





# Lower Latham Reservoir (District 2 - Agricultural)

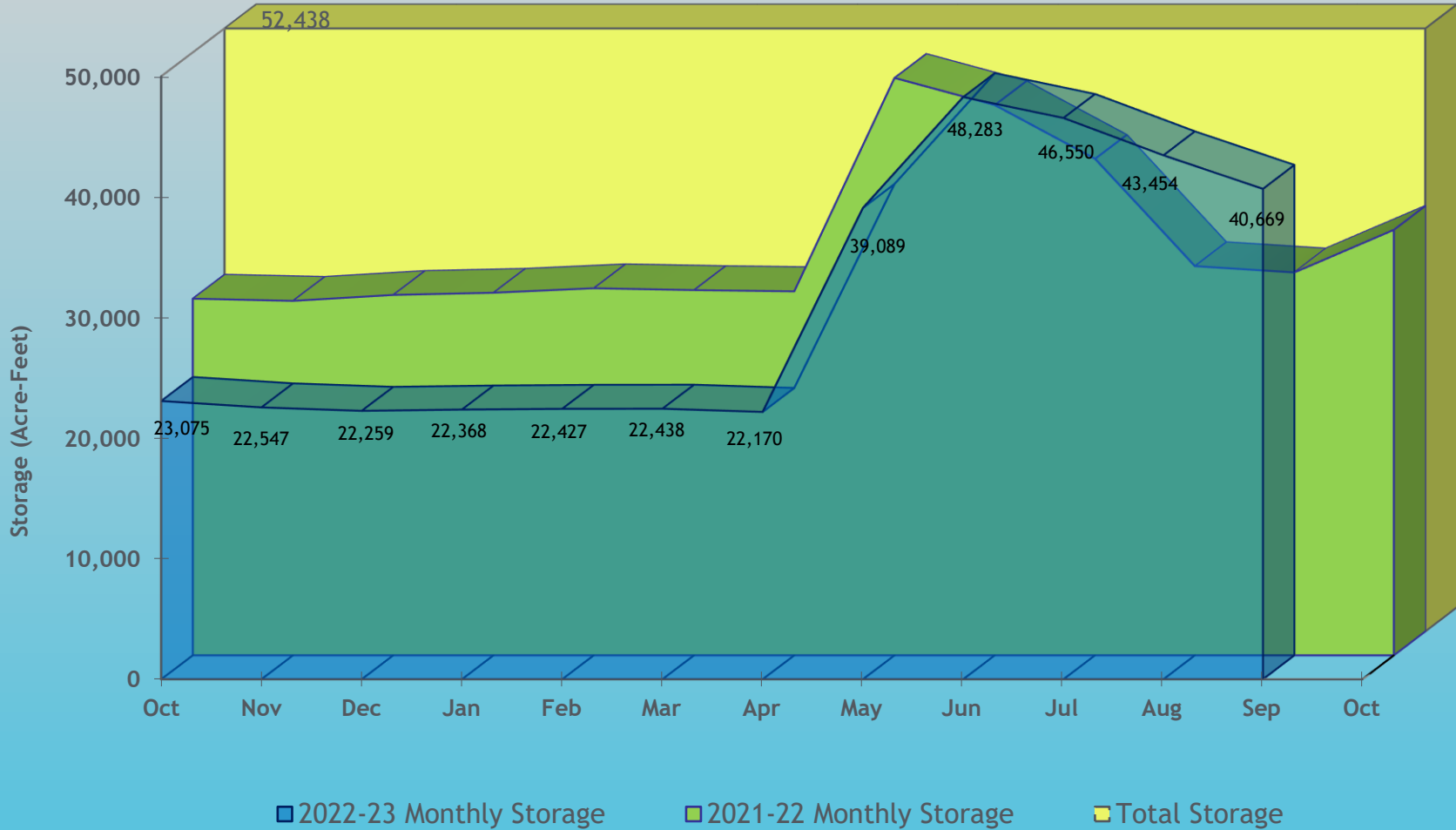


2022-23 Monthly Storage

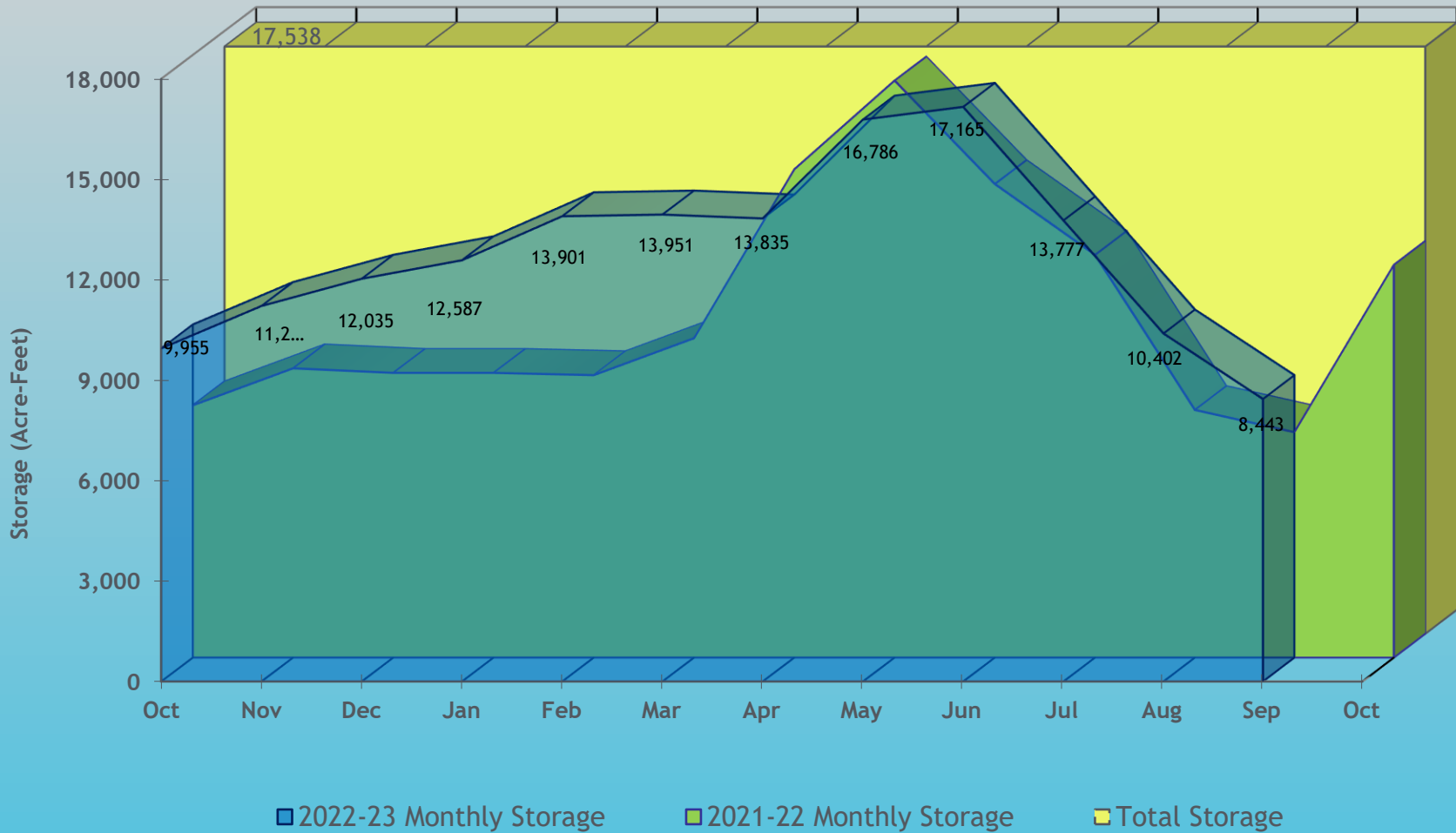
2021-22 Monthly Storage

Total Storage

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



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

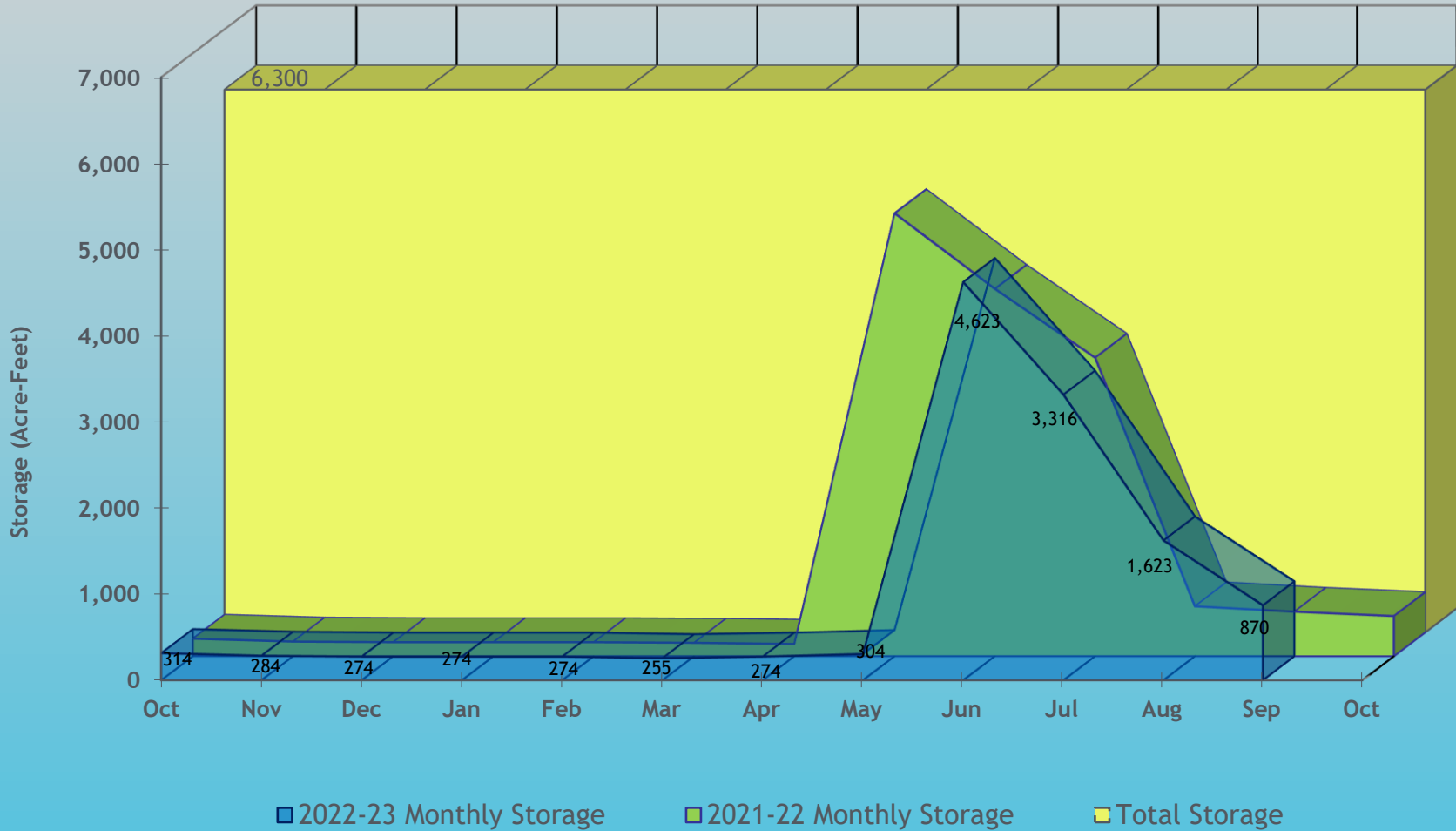


■ 2022-23 Monthly Storage

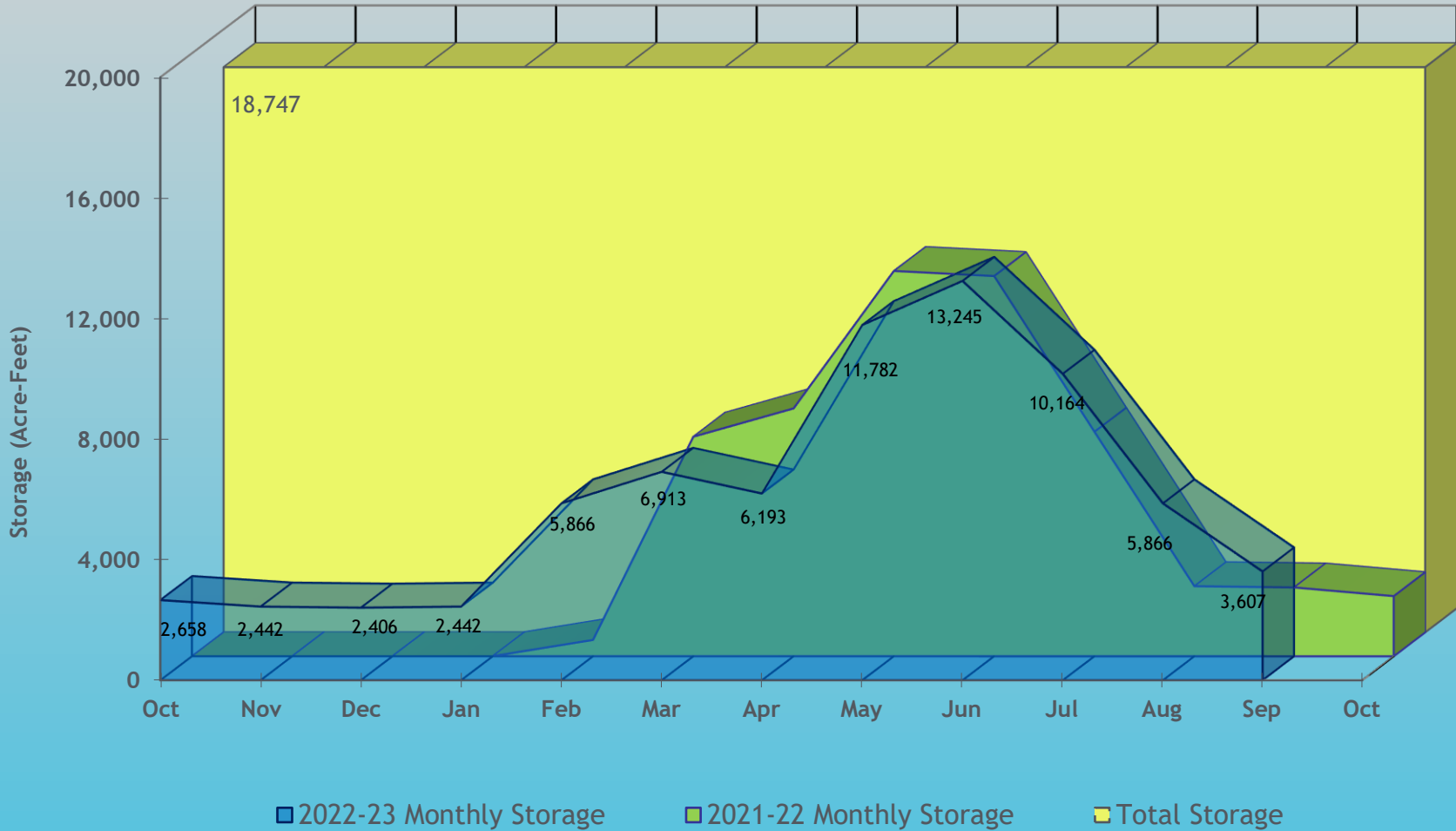
■ 2021-22 Monthly Storage

■ Total Storage

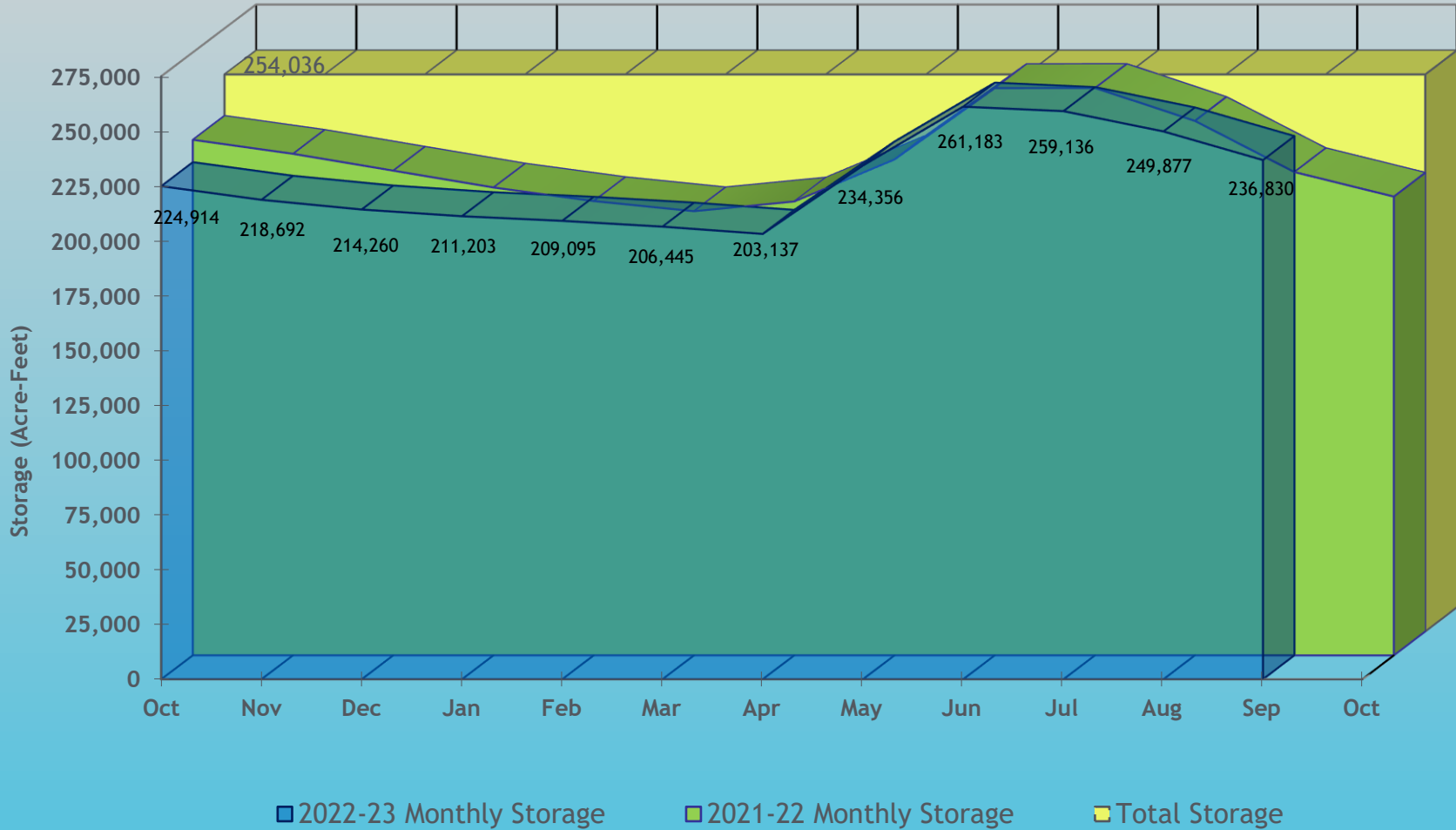
# Prospect Reservoir (District 1 - Agricultural)



# Horse Creek Reservoir (District 1 - Agricultural)



# Dillon Reservoir (District 1 - Municipal)

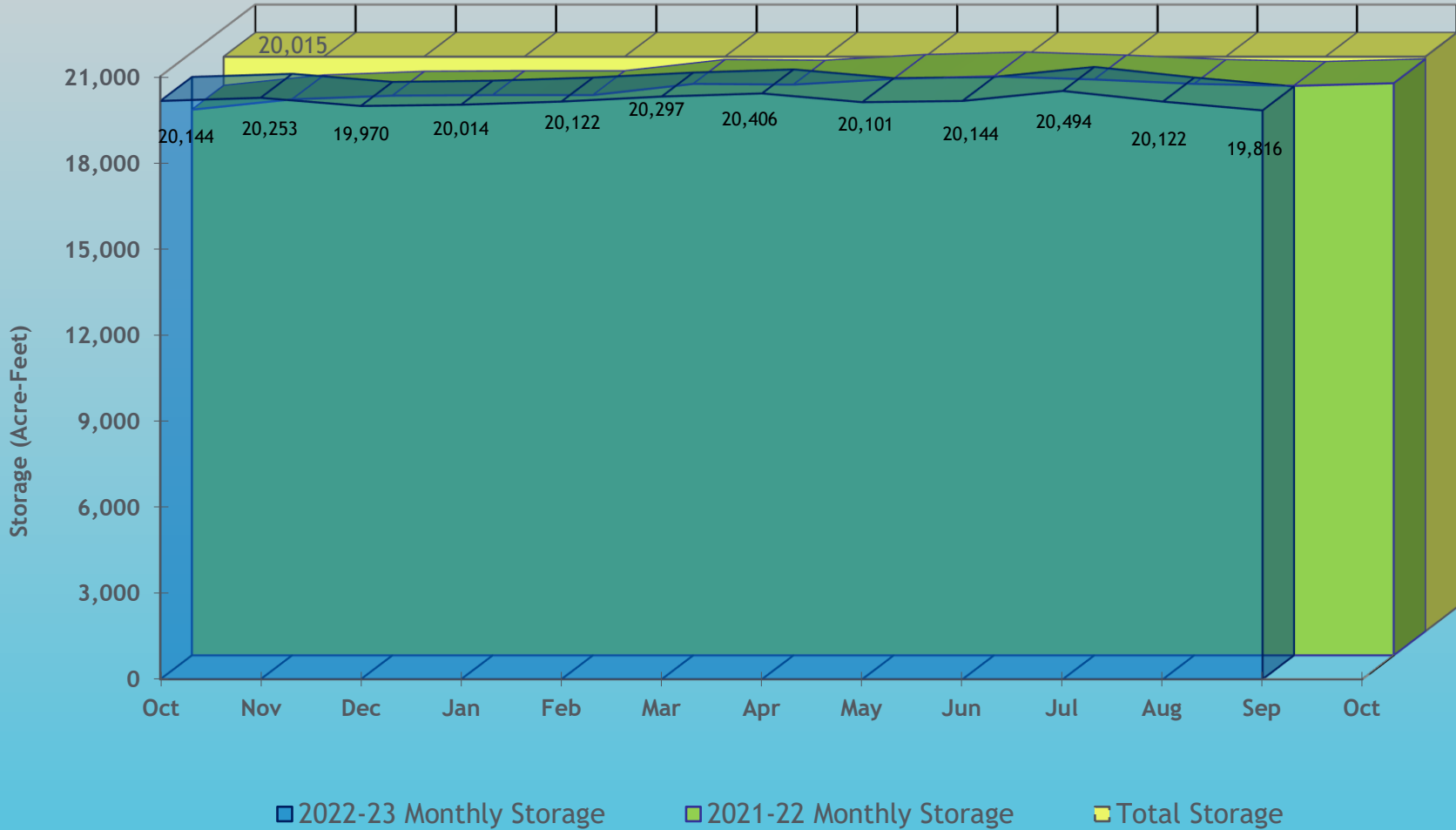


■ 2022-23 Monthly Storage

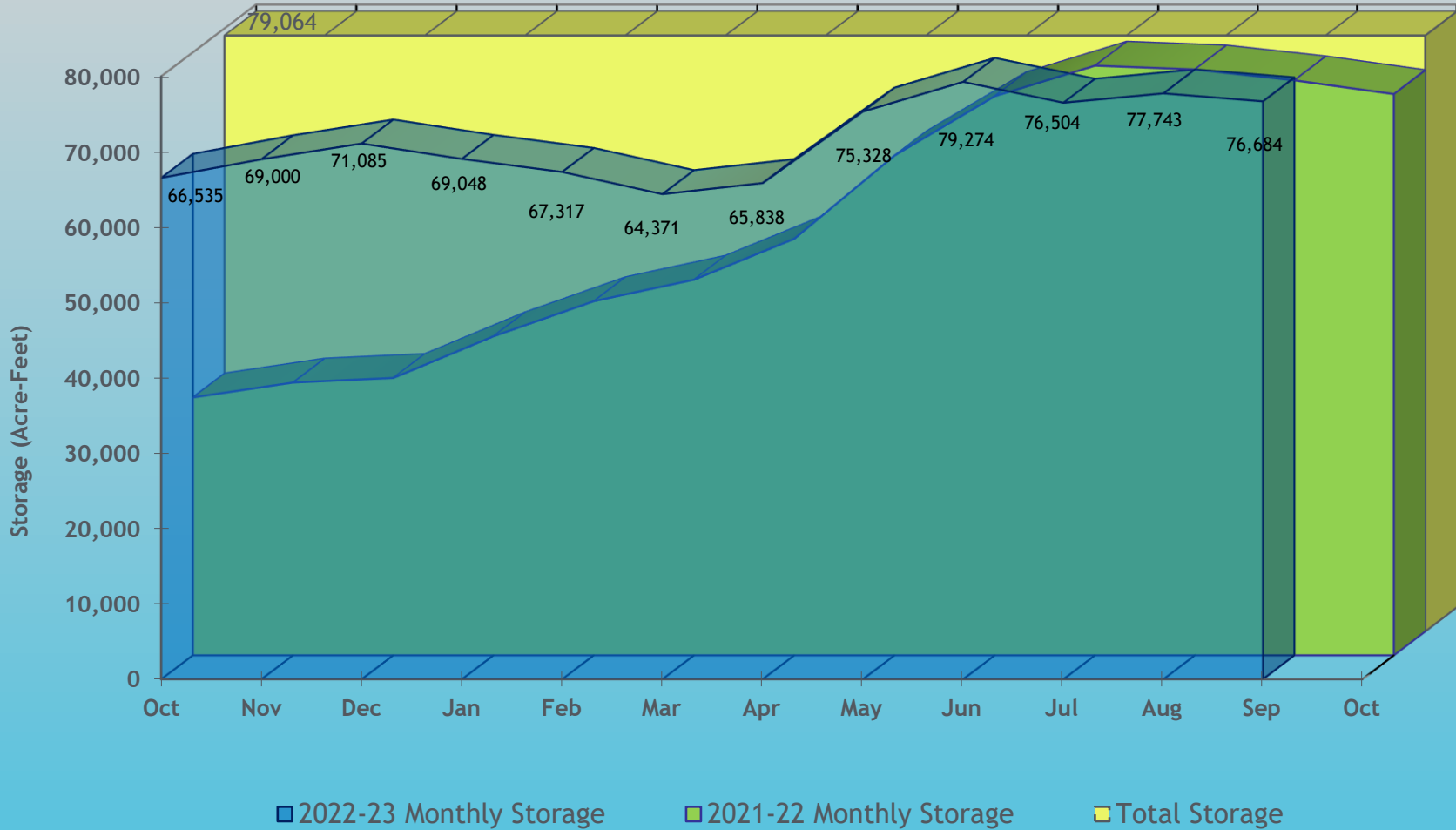
■ 2021-22 Monthly Storage

■ Total Storage

# Antero Reservoir (District 23 - Municipal)

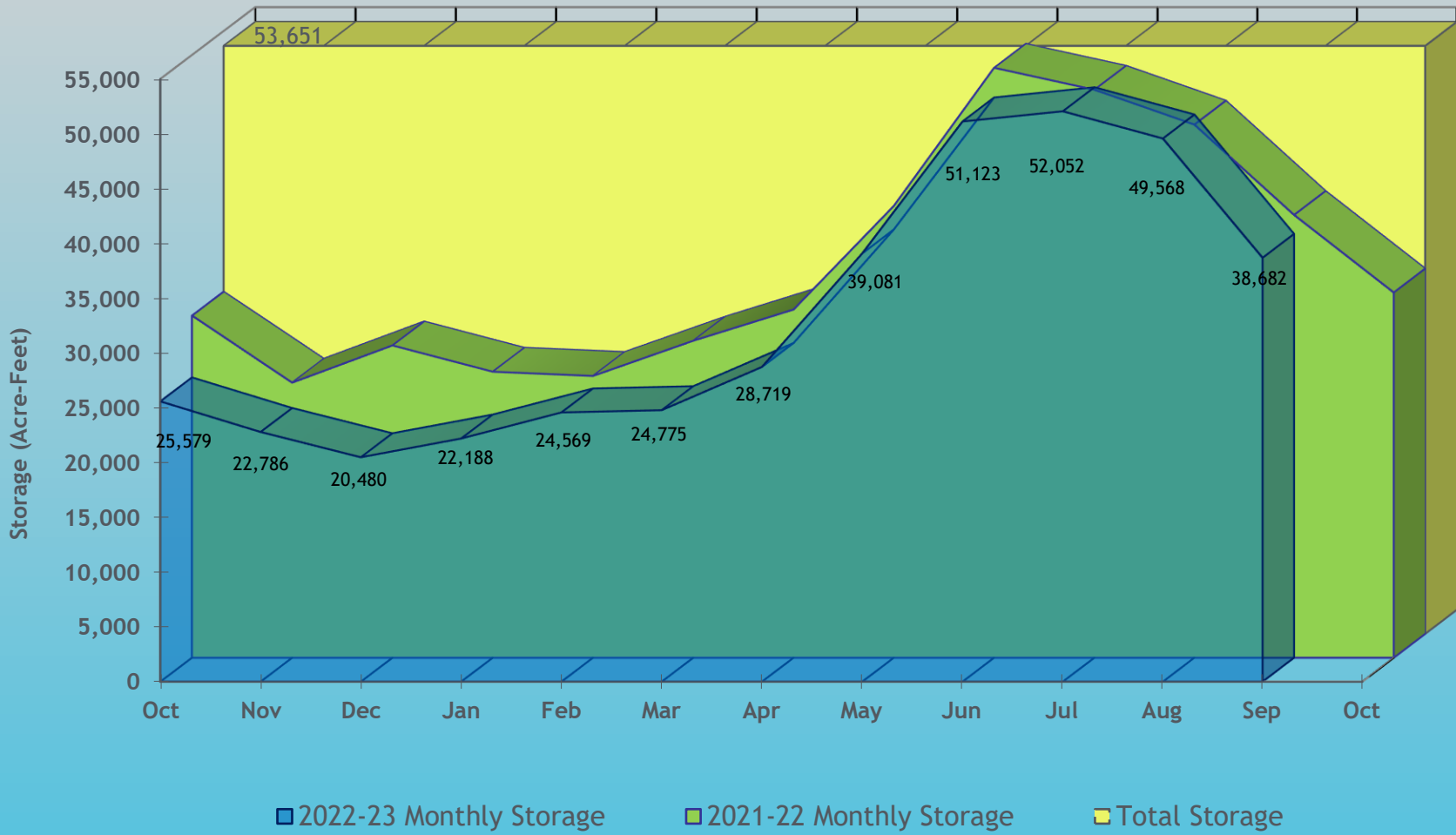


# Cheesman Reservoir (District 80 - Municipal)



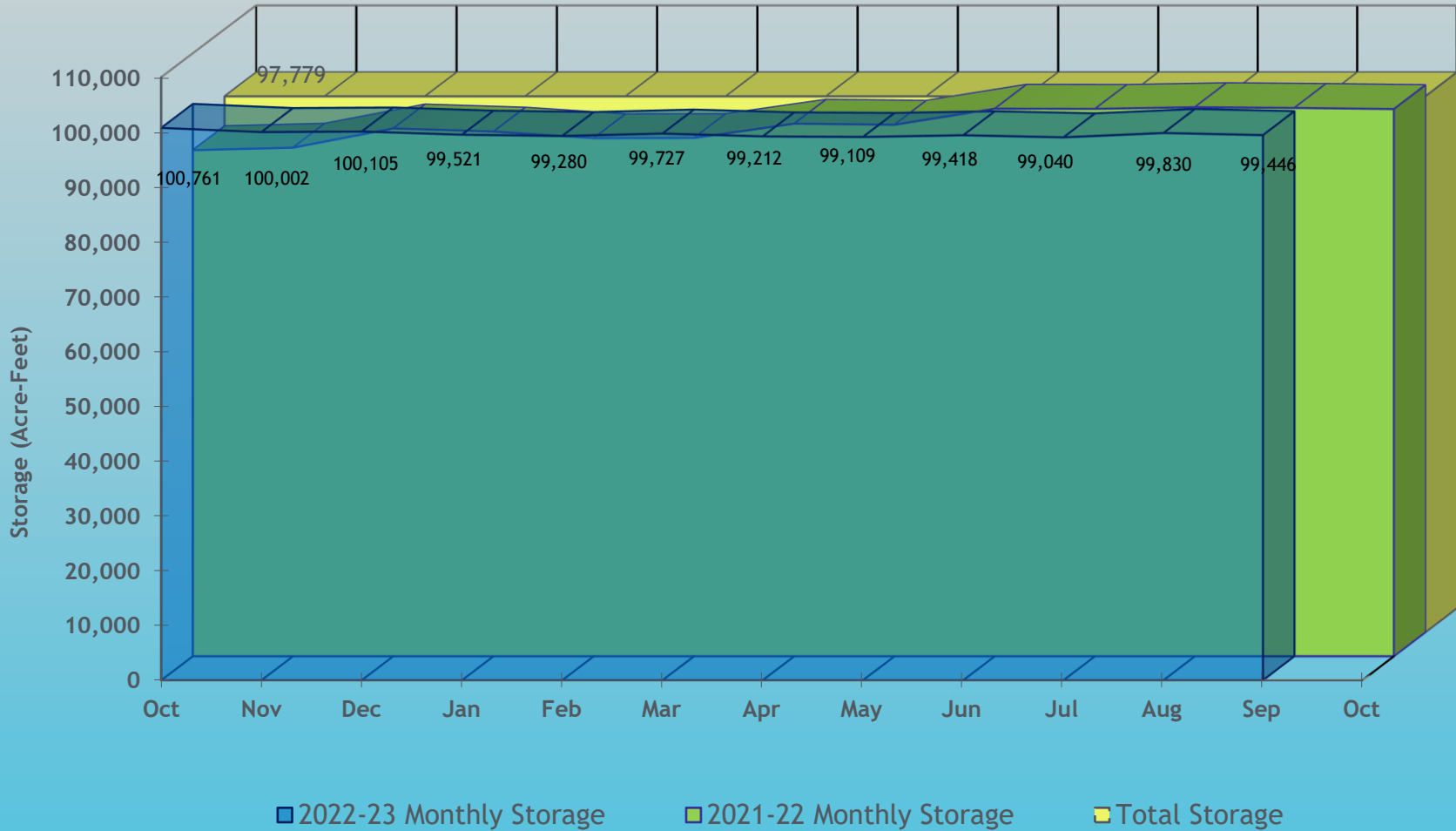


# Spinney Mountain Reservoir (District 23 - Municipal)

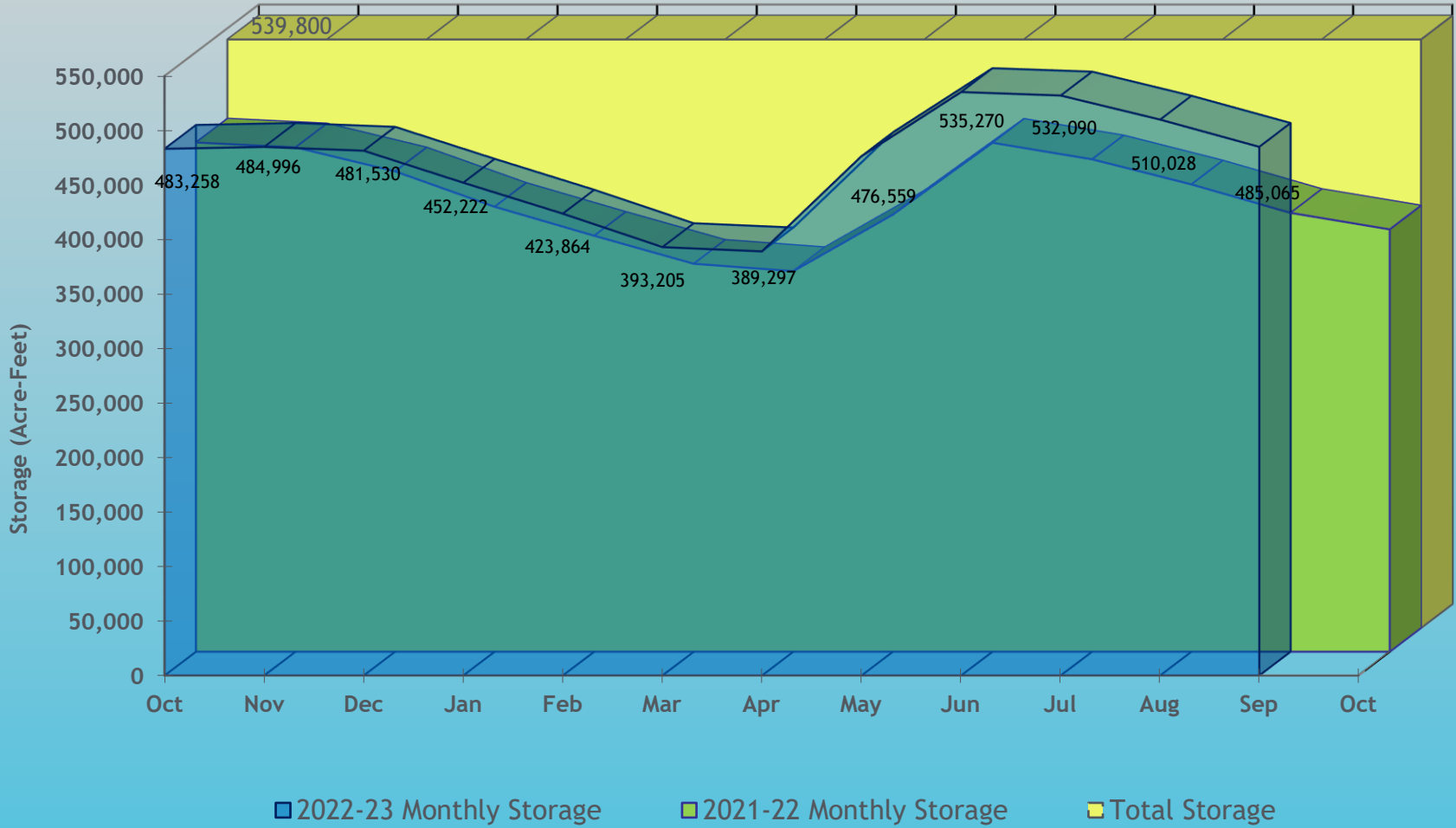


■ 2022-23 Monthly Storage    
 ■ 2021-22 Monthly Storage    
 ■ Total Storage

# Eleven Mile Reservoir (District 23 - Municipal)



# Lake Granby



■ 2022-23 Monthly Storage

■ 2021-22 Monthly Storage

■ Total Storage



All data is collected by the personnel of  
Division 1 and is subject to revision.