

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

## South Platte Summary December 2021

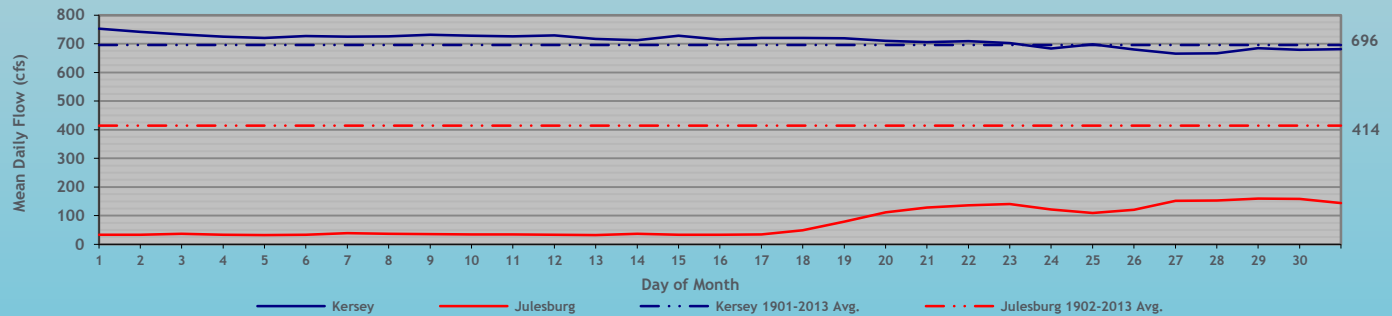
Compiled by Lee Cunning, P.E.

# COLORADO DIVISION OF WATER RESOURCES, DIVISION 1

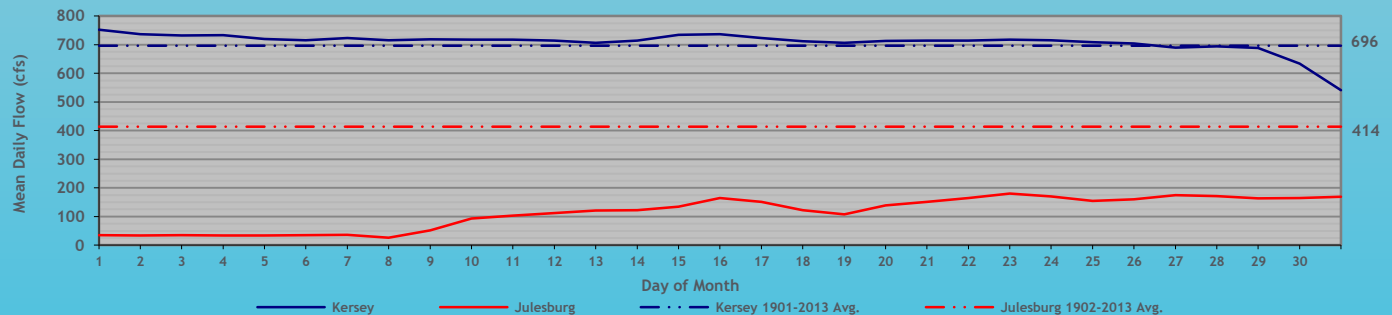
## MONTH OF December 2021

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	14,330	15,839	64	1,509	11%	70%	65%	0
N STERLING	73,730	8,563	23,135	64	14,572	170%	31%	43%	0
PREWITT	28,500	22,992	21,420	64	-1,572	-7%	75%	40%	0
JACKSON	27,257	20,751	23,420	1	2,669	13%	86%	88%	0
EMPIRE	37,700	18,236	26,018	1	7,782	43%	69%	60%	0
RIVERSIDE	63,113	26,767	45,591	1	18,824	70%	72%	51%	0
BARR LAKE	32,152	12,234	16,498	2	4,264	35%	51%	30%	0
CHEESMAN	79,064	76,675	70,286	80	-6,389	-8%	89%	47%	0
ELEVEN MILE	97,779	99,658	99,109	23	-549	-1%	100%	98%	1,330
SPINNEY	53,651	31,678	31,781	23	103	0%	59%	53%	0
ANTERO	20,015	20,014	20,231	23	217	1%	100%	97%	216

**KERSEY and JULESBURG**  
December 2020

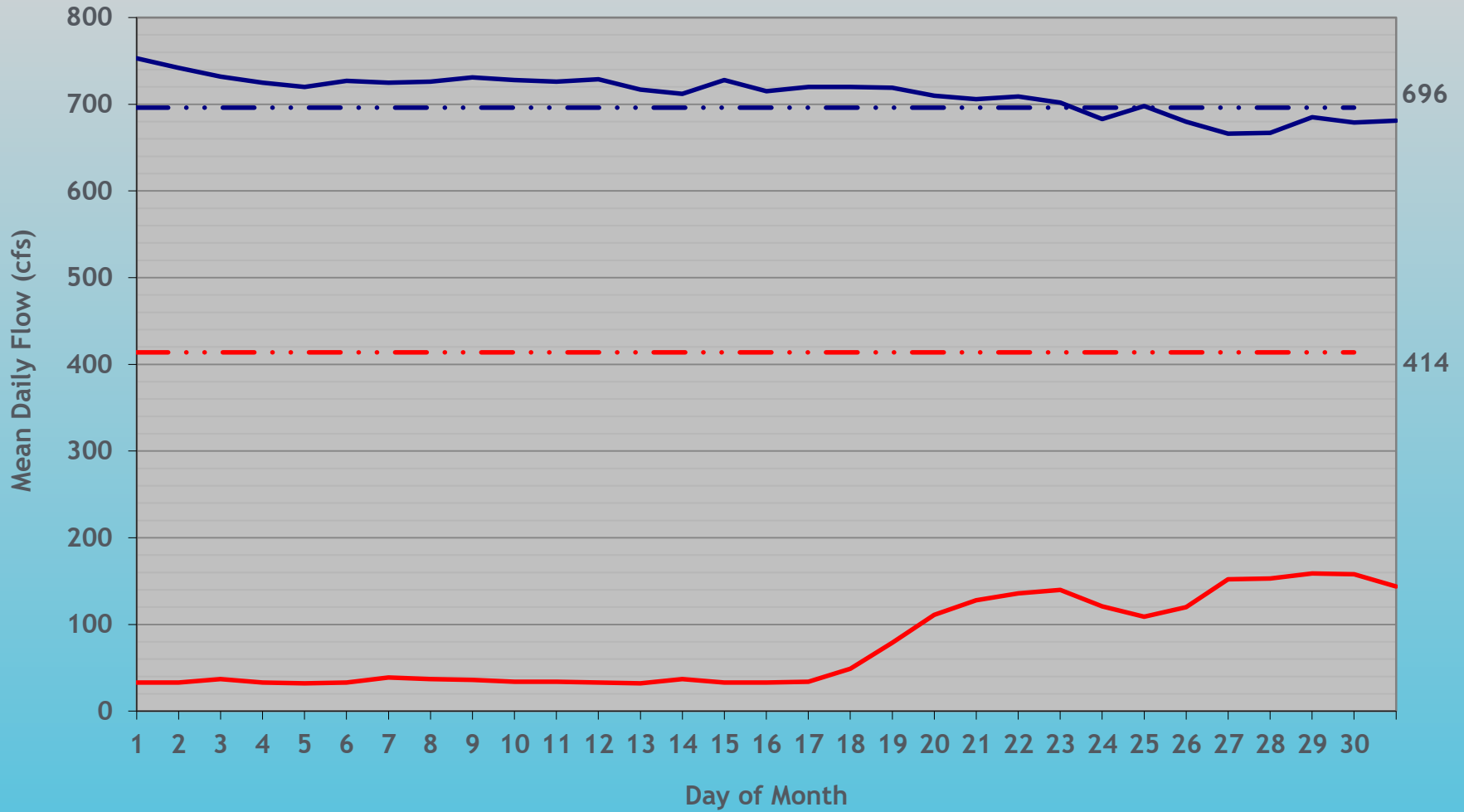


**KERSEY and JULESBURG**  
December 2021



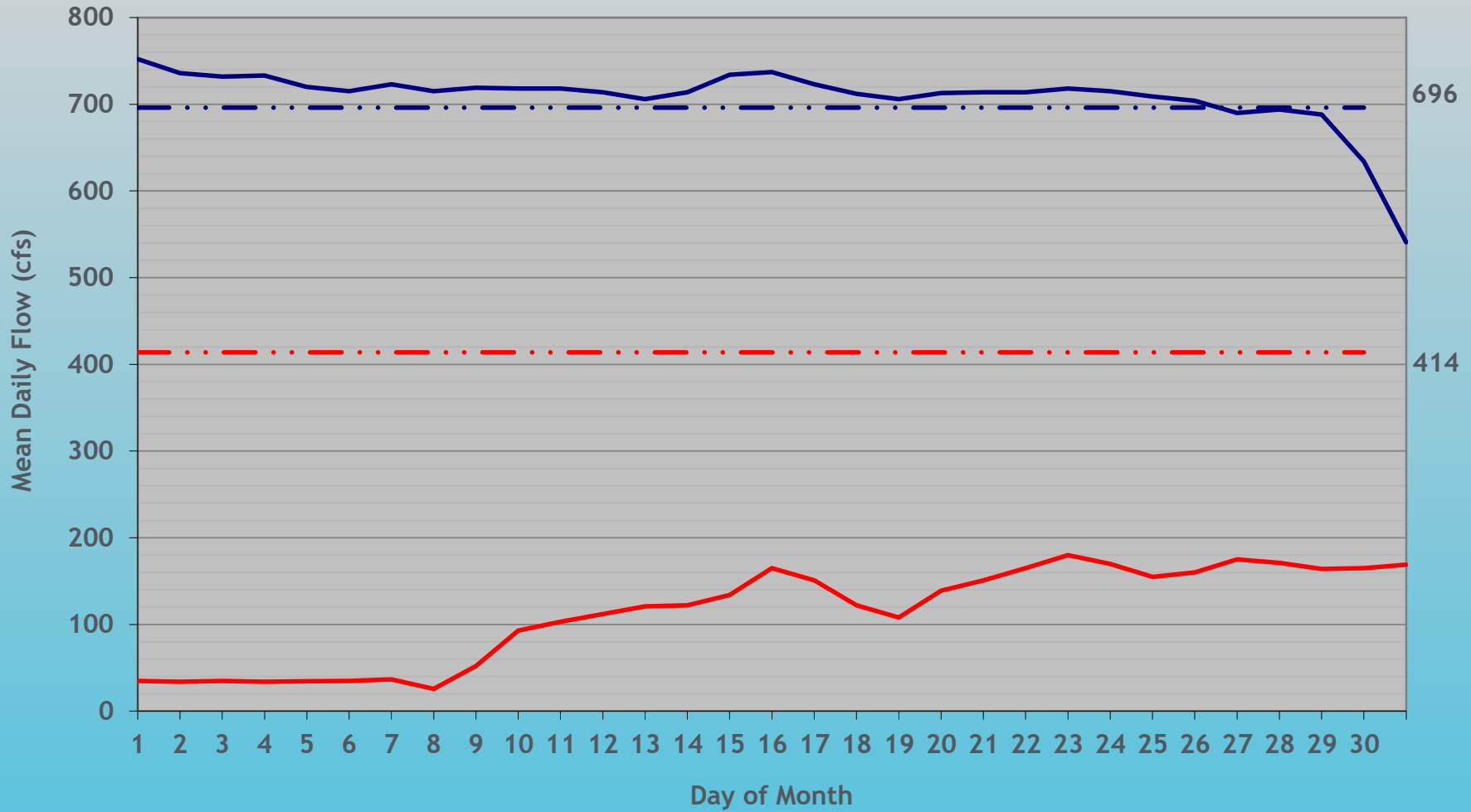
RIVER GAGES	MEAN DAILY FLOW (CFS)
<b>KERSEY</b>	<b>708</b>
<b>JULESBURG</b>	<b>113</b>
<b>THIS MONTH LAST YEAR</b>	
<b>KERSEY</b>	<b>712</b>
<b>JULESBURG</b>	<b>76</b>
<b>MEAN FOR PERIOD OF RECORD*</b>	
<b>KERSEY</b>	<b>696</b>
<b>JULESBURG</b>	<b>414</b>
*Kersey 1901 - 2016	
*Julesburg 1902 - 2016	

# KERSEY and JULESBURG December 2020



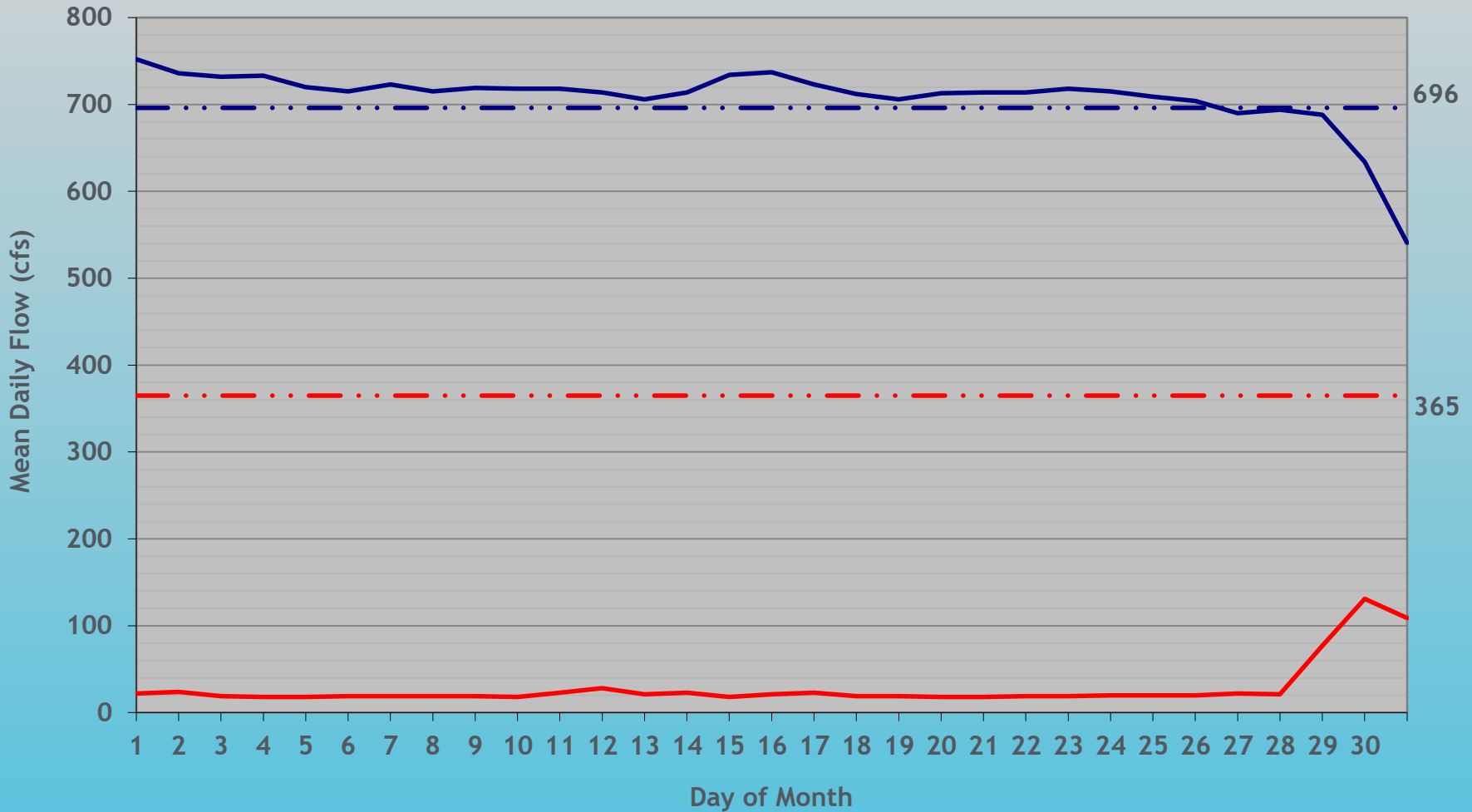
— Kersey — Julesburg — • Kersey 1901-2013 Avg. — • Julesburg 1902-2013 Avg.

# KERSEY and JULESBURG December 2021



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

# KERSEY and BALZAC December 2021



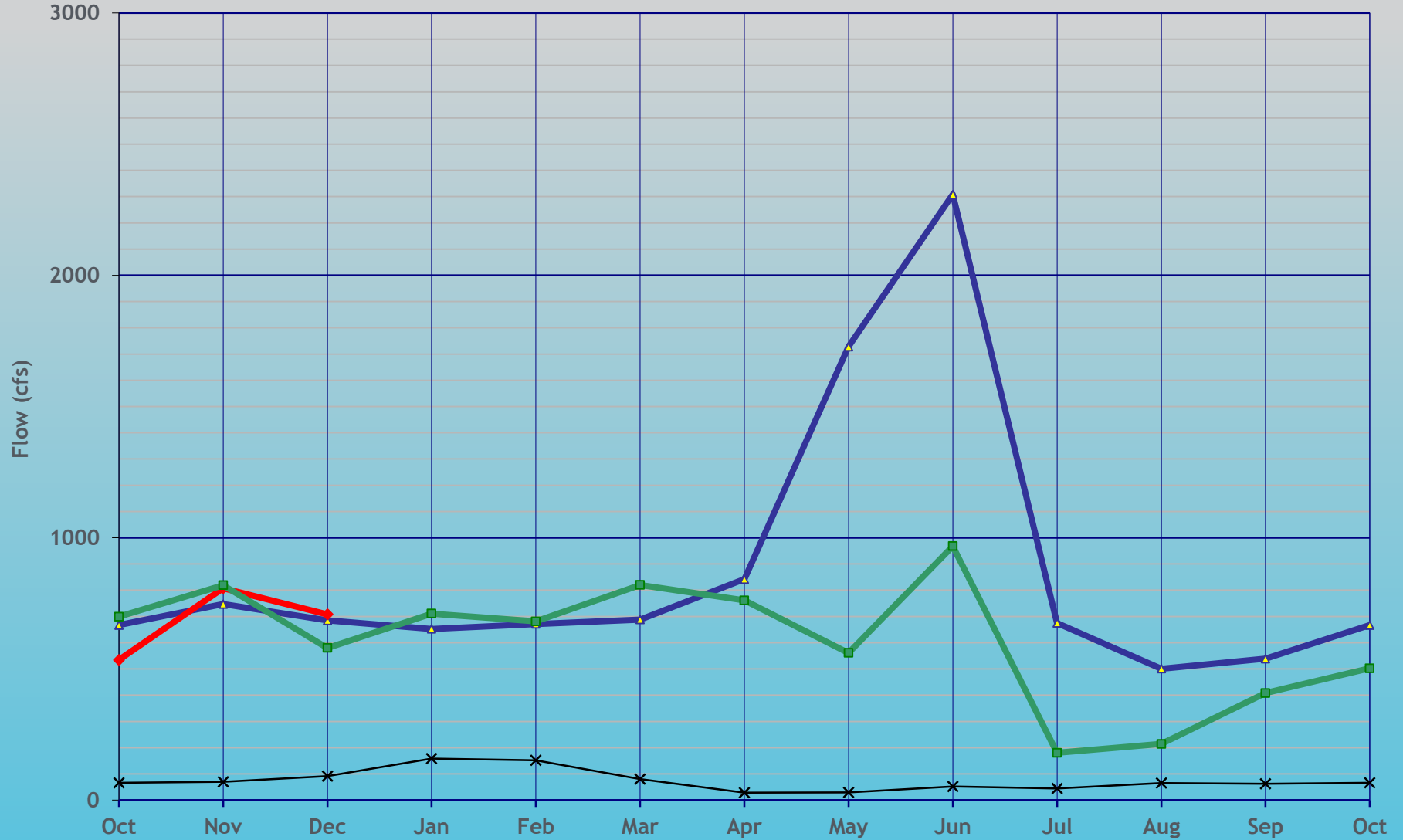
— Kersey      — Balzac      - · - Kersey 1901-2013 Avg.      - · - Balzac 1917-2013 Avg.

# 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 2022 Mean Monthly Flow	Month	Historic* Mean Flow	Historic* Max Flow	Year	Historic* Min Flow	Year	IY 2022 Mean Monthly Flow
Oct	667	6180	1984	66	1954	534	Oct	299	3130	1984	4.2	1903	119
Nov	747	3650	1984	70	1934	808	Nov	335	2900	1984	4.2	1903	45
Dec	685	1890	1961	91	1934	708	Dec	401	1820	1984	13	2002	113
Jan	652	2160	1974	158	1935		Jan	512	2510	1970	21	2003	
Feb	671	3060	1914	152	1935		Feb	578	3220	1930	29	2005	
Mar	688	3470	1983	80	1935		Mar	512	12900	1910	15	1904	
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



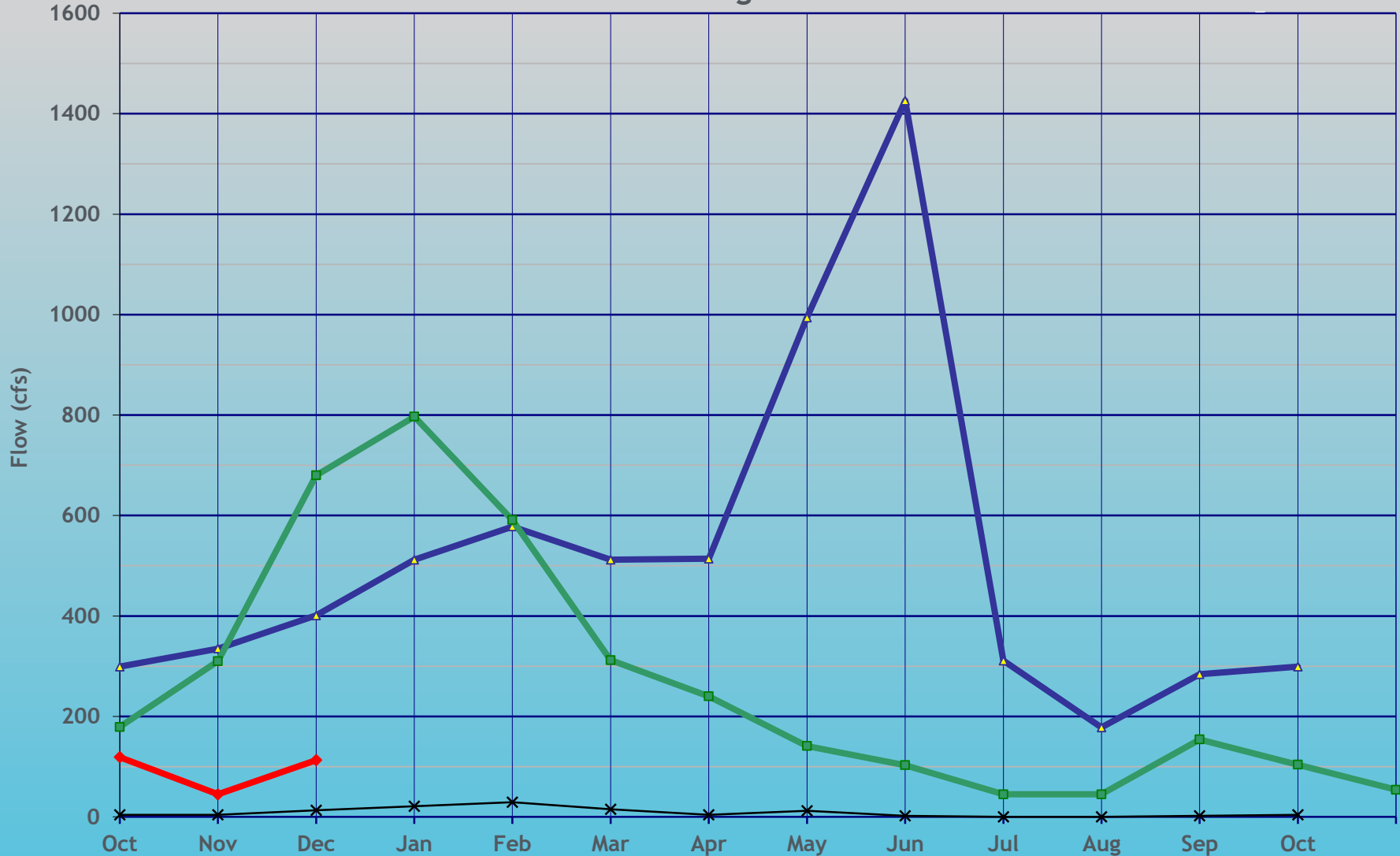
—▲— Historic\* Mean Flow    —×— Historic\* Min Flow    —◆— 2021-2022 Mean Flow    —■— 2020-2021 Mean Flow

\*1901-2016



# South Platte River at Julesburg

Irrigation Year



—▲— Historic\* Mean Flow    —\*— Historic\* Min Flow    —◆— 2021-2022 Mean Flow    —■— 2020-2021 Mean Flow

\*1901-2016

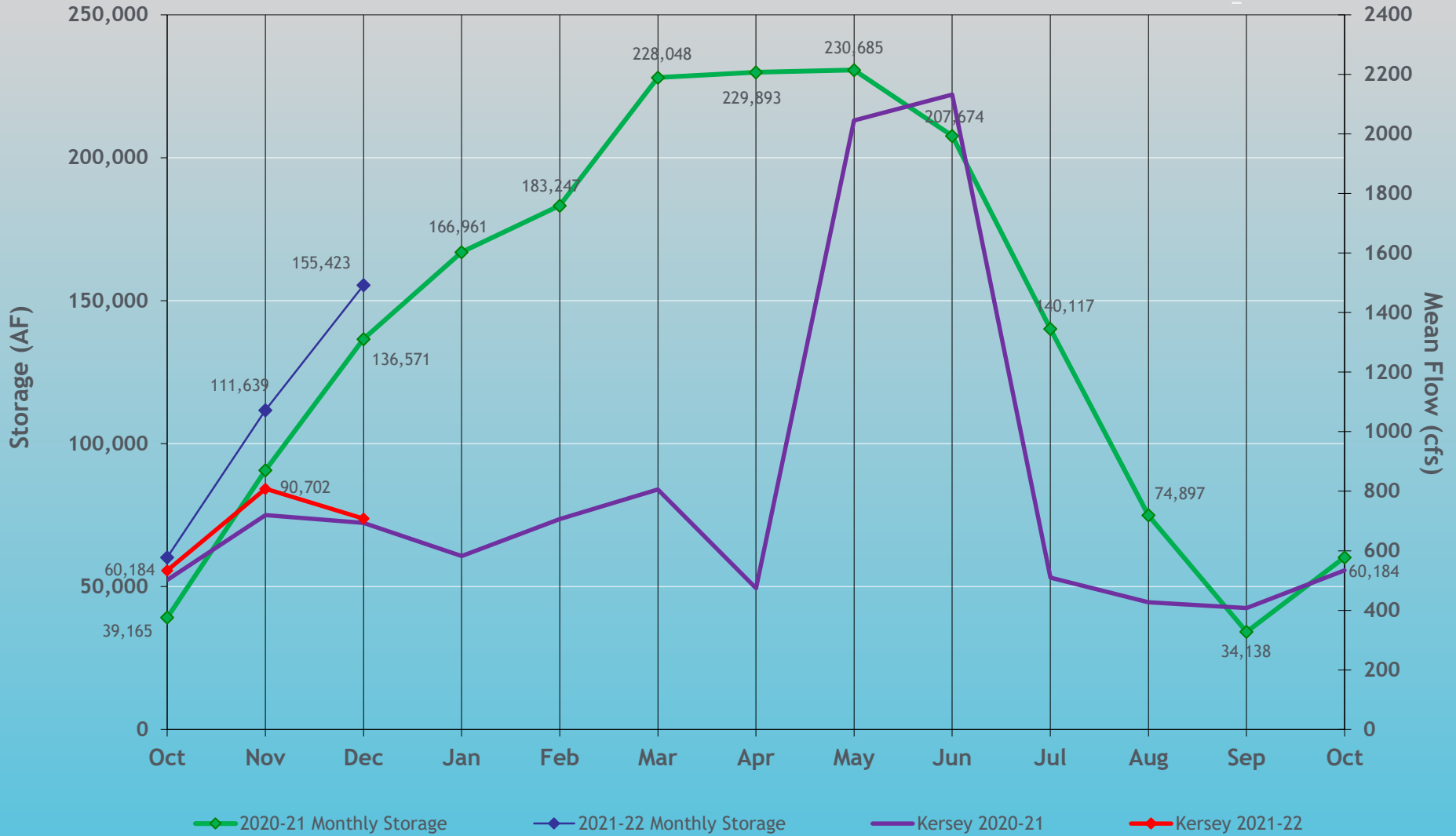




Next three slides show Reservoir Storage above and below Kersey

# Reservoir Storage below Kersey

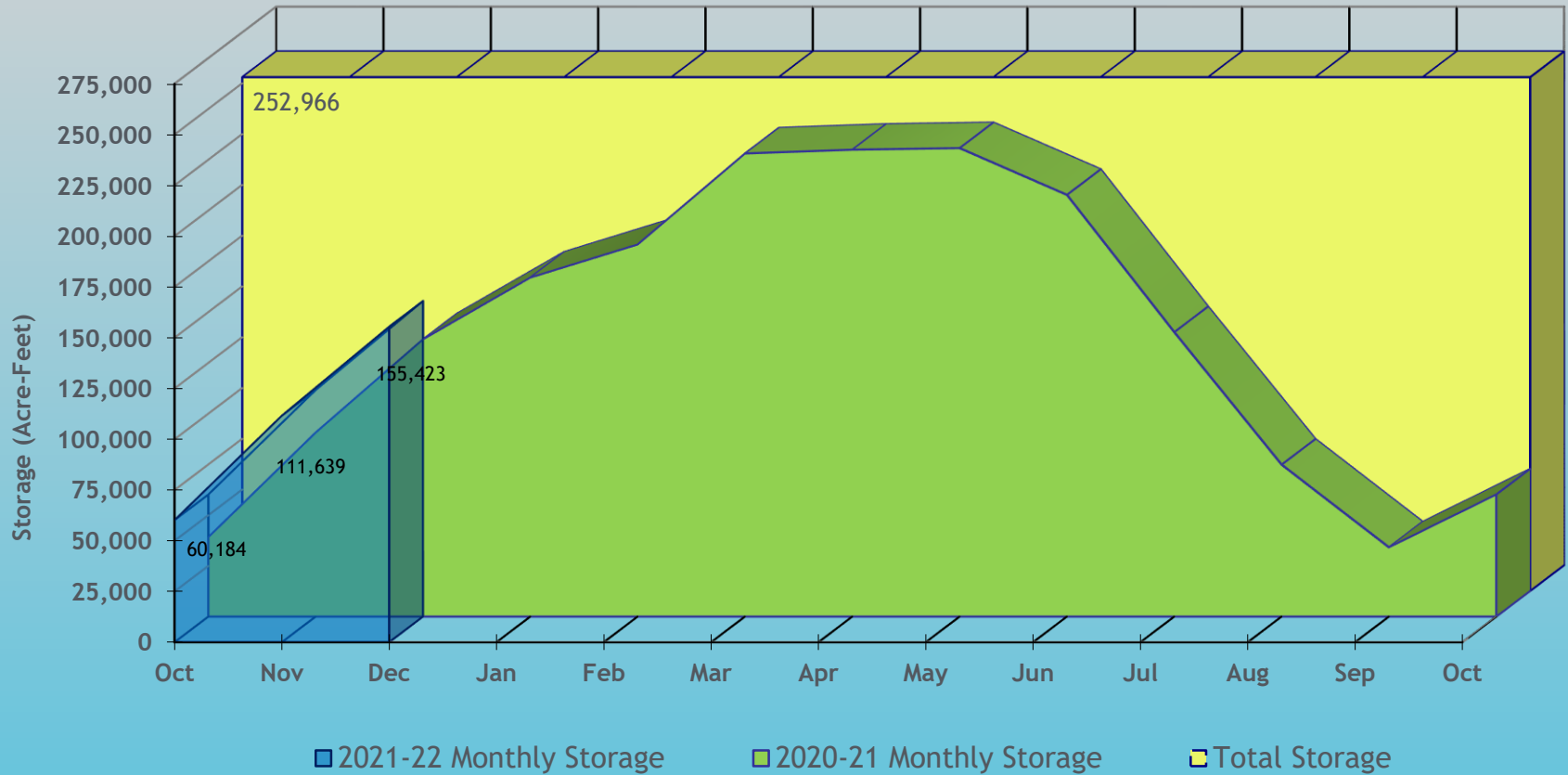
Selected Reservoirs\*



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



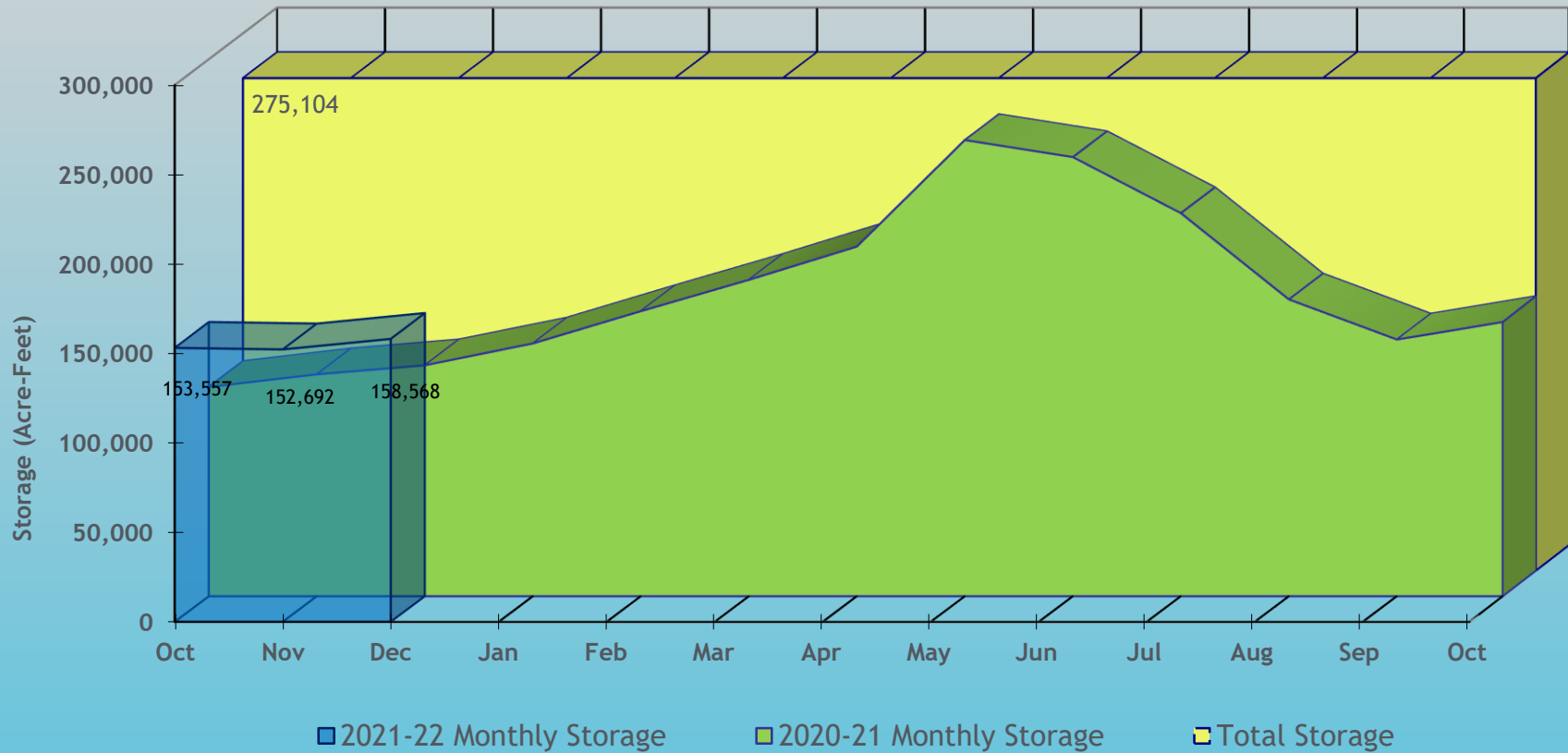
# South Platte Reservoir Storage below Kersey\*



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



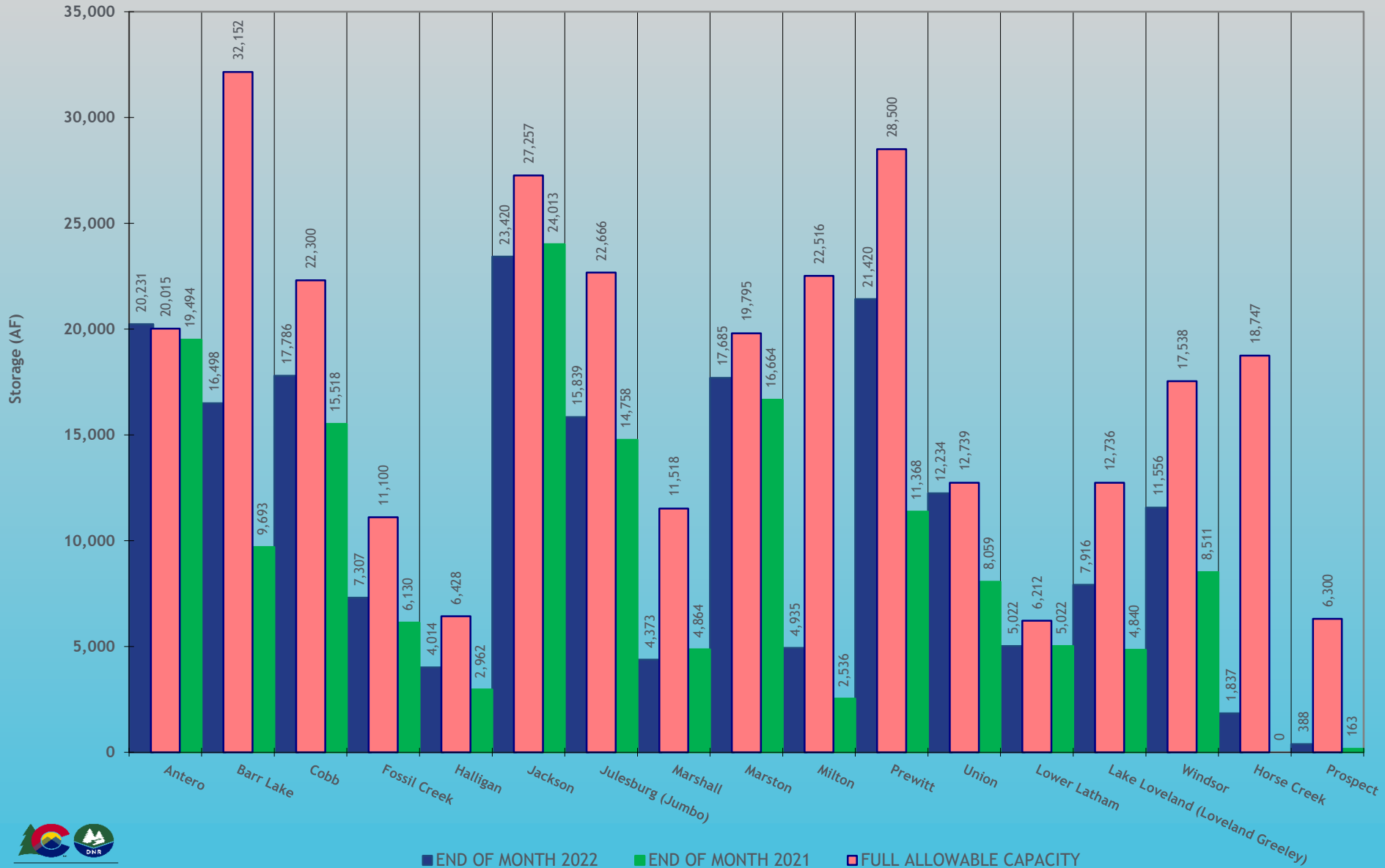
# South Platte Reservoir Storage above Kersey\*



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



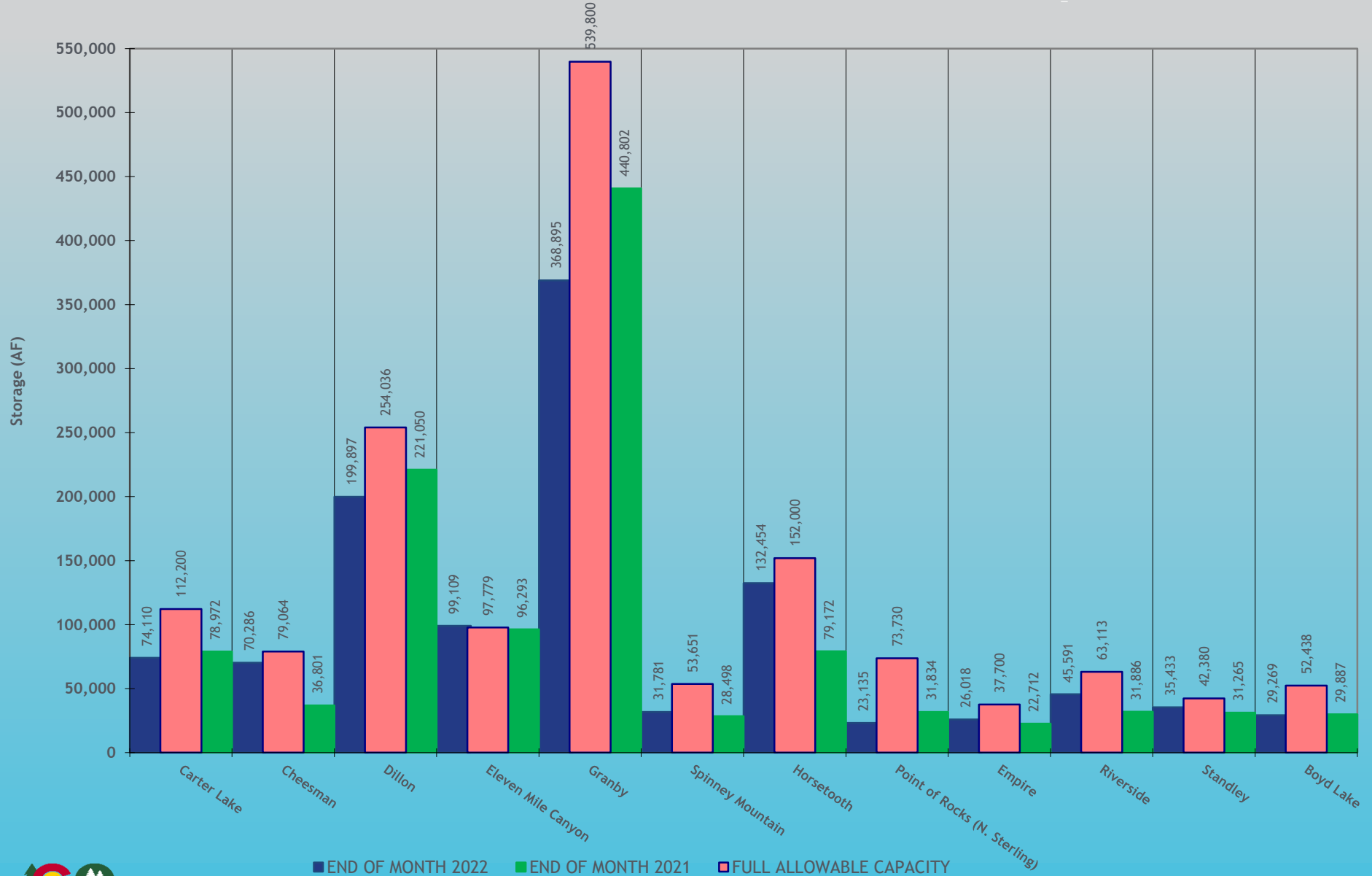
# December Reservoir Change in Storage IY2021 versus IY2022



■ END OF MONTH 2022   ■ END OF MONTH 2021   ■ FULL ALLOWABLE CAPACITY



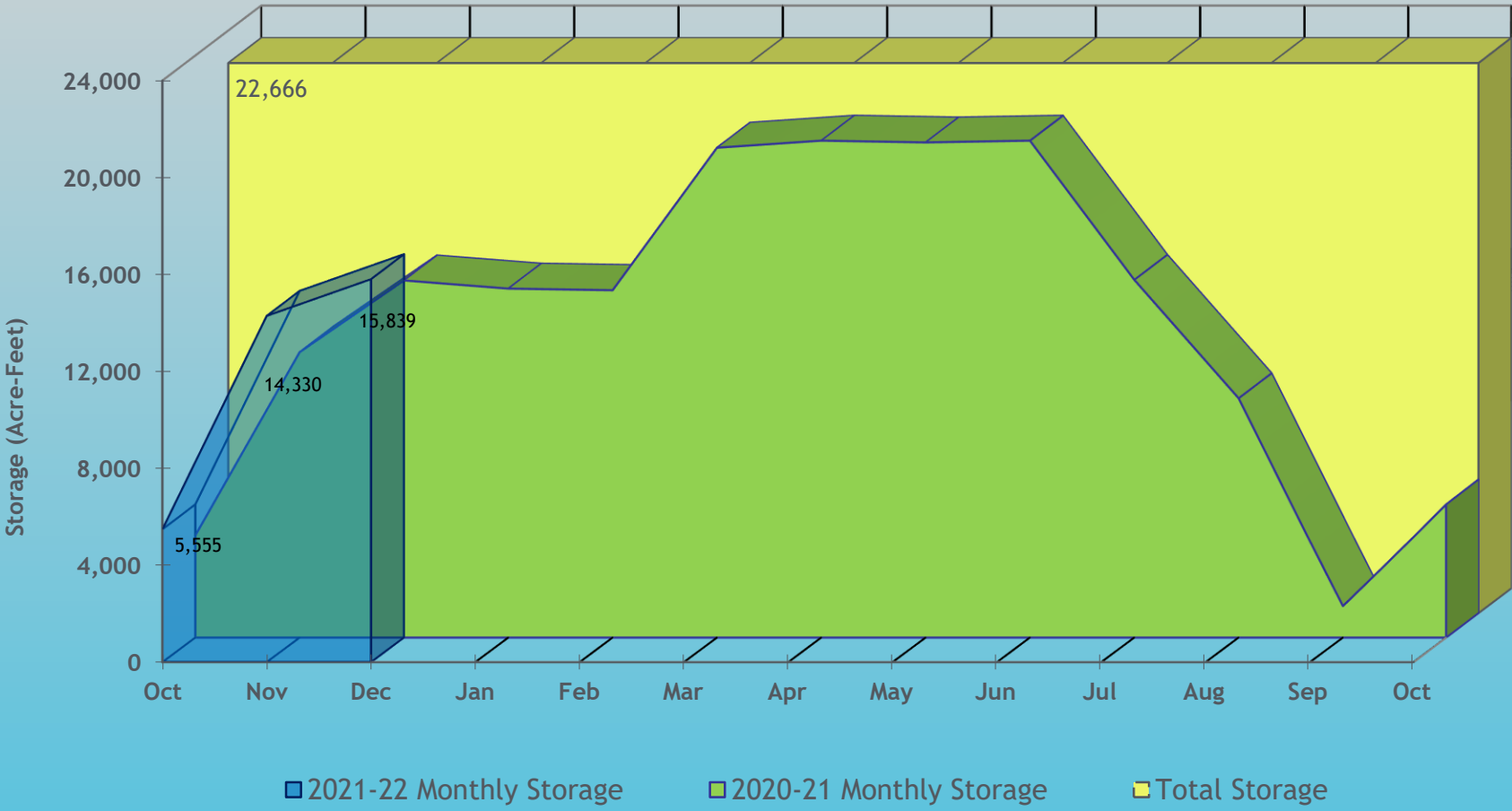
# December Reservoir Change in Storage IY2021 versus IY2022



■ END OF MONTH 2022   ■ END OF MONTH 2021   ■ FULL ALLOWABLE CAPACITY

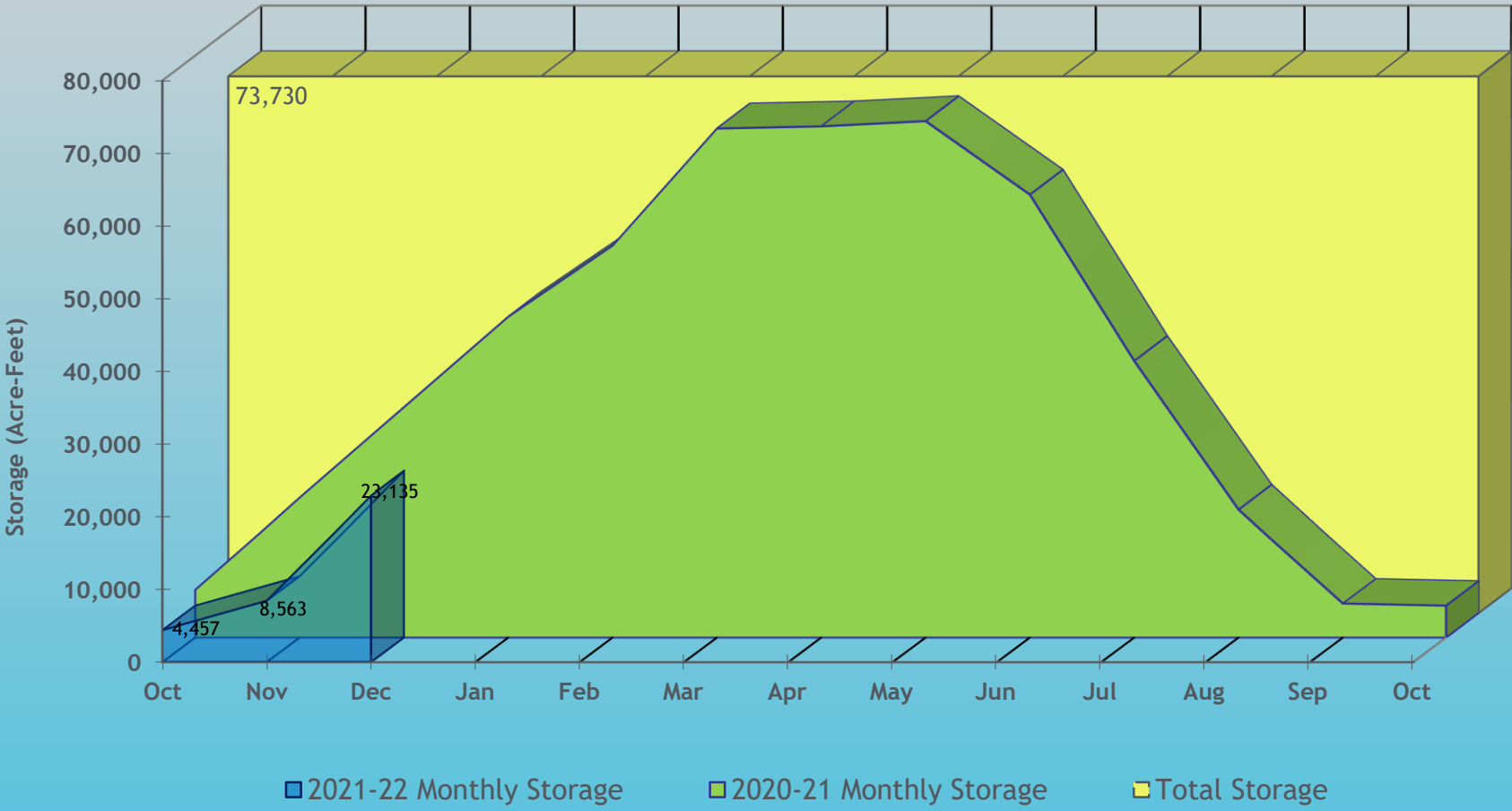


# Julesburg Reservoir (District 64 - Agricultural)

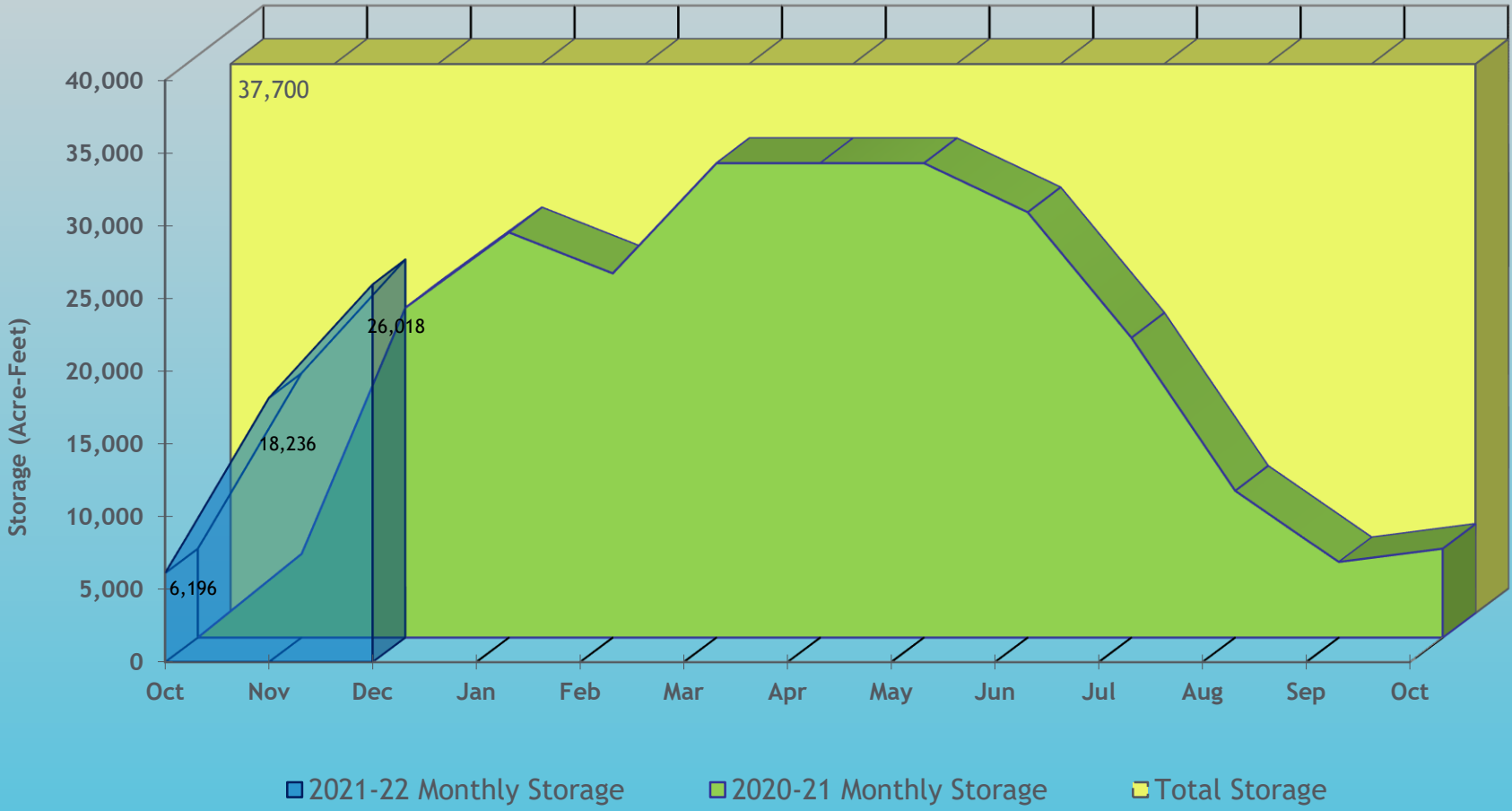




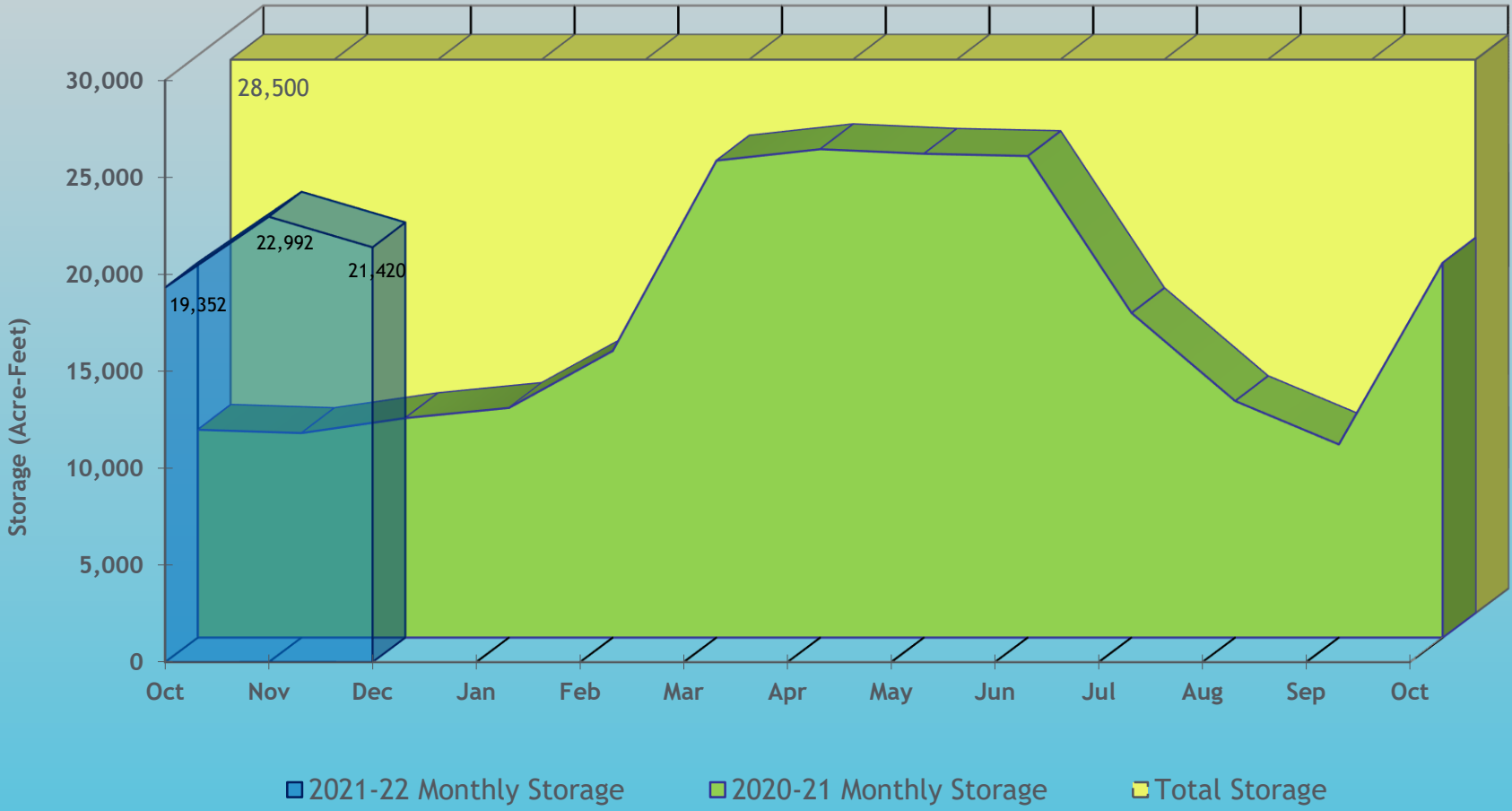
# North Sterling Reservoir (District 64 - Agricultural)



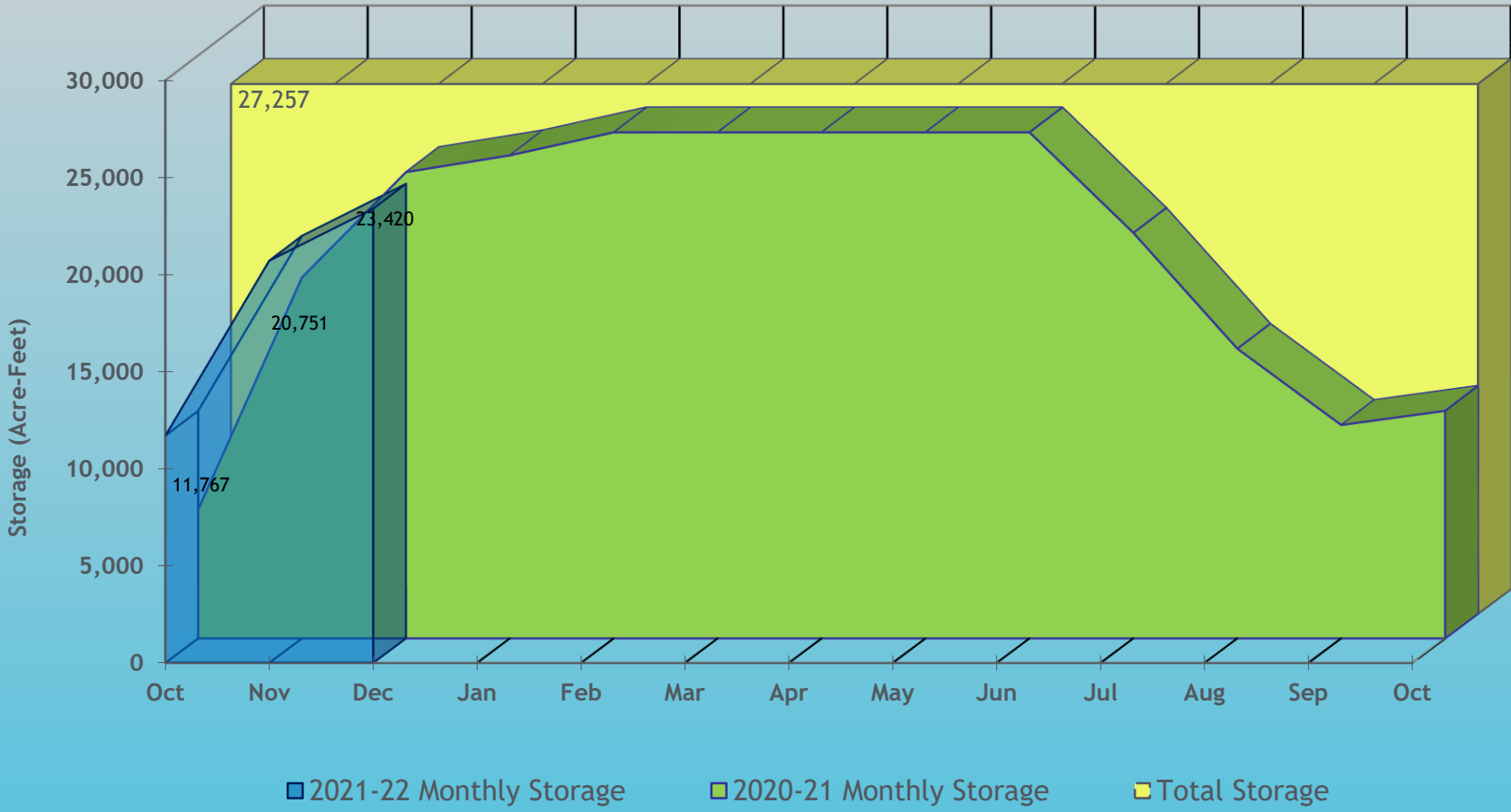
# Empire Reservoir (District 1 - Agricultural)



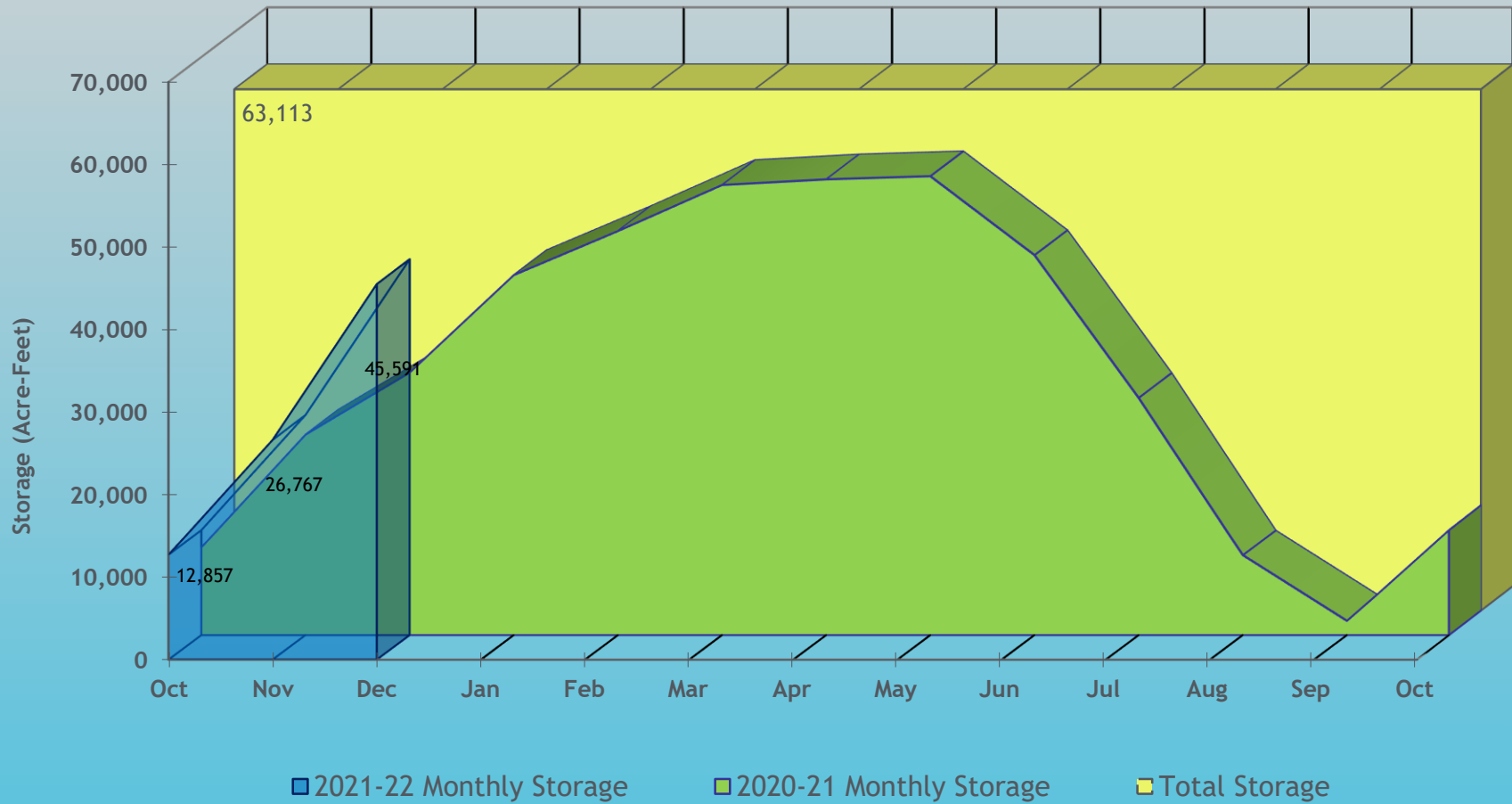
# Prewitt Reservoir (District 64 - Agricultural)



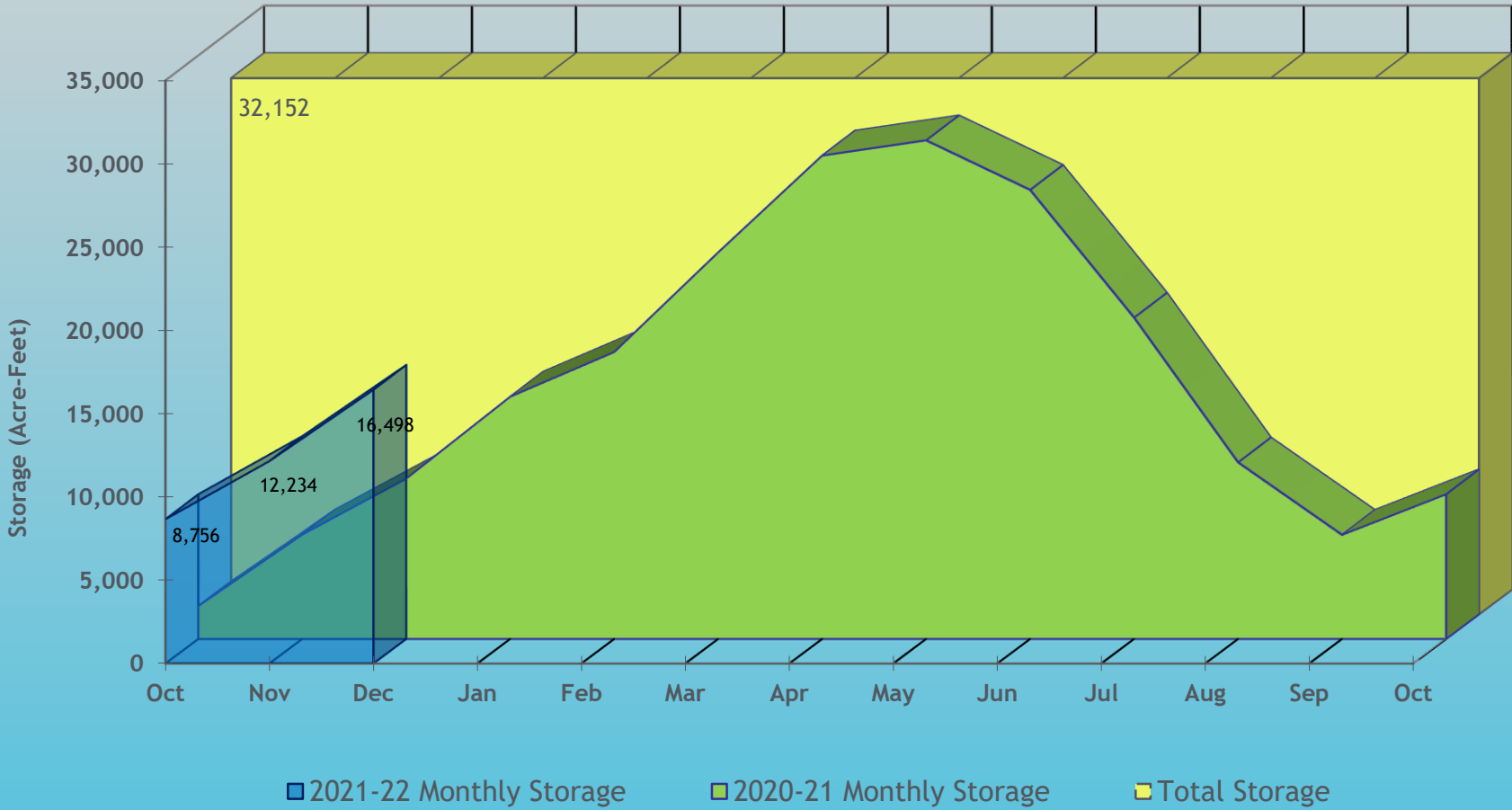
# Jackson Reservoir (District 1 - Agricultural)



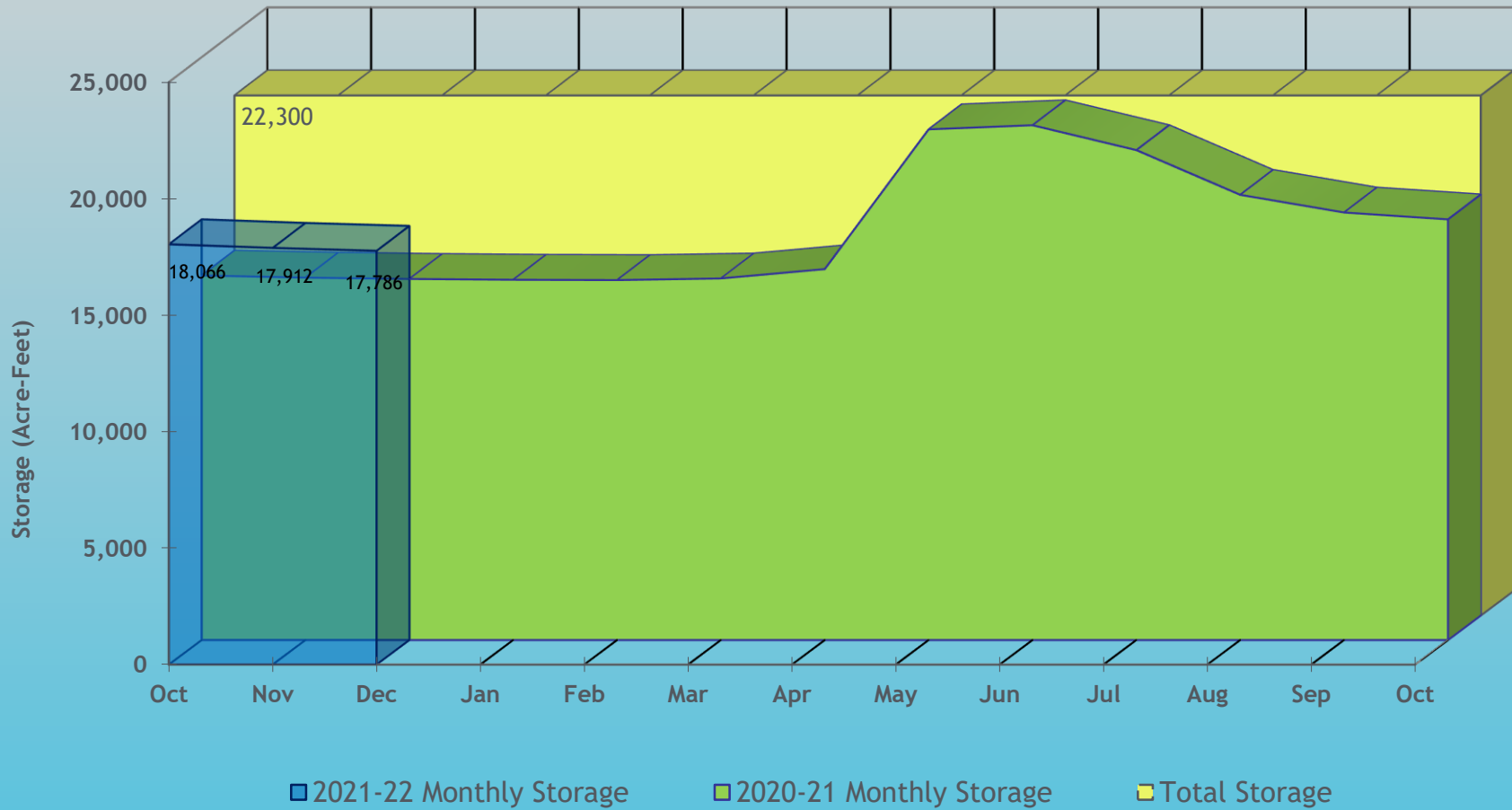
# Riverside Reservoir (District 1 - Agricultural)



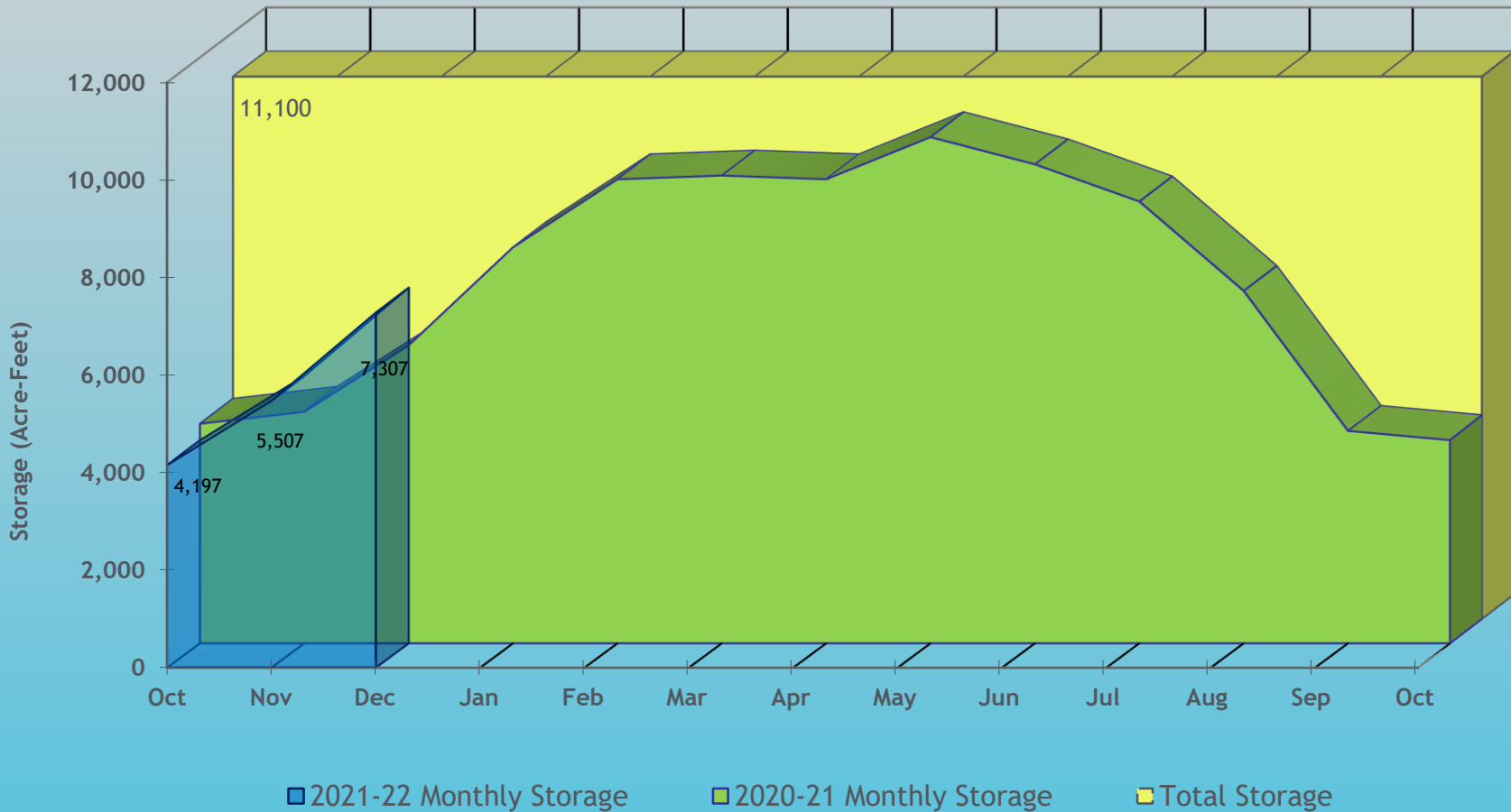
# Barr Reservoir (District 2 - Agricultural)



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

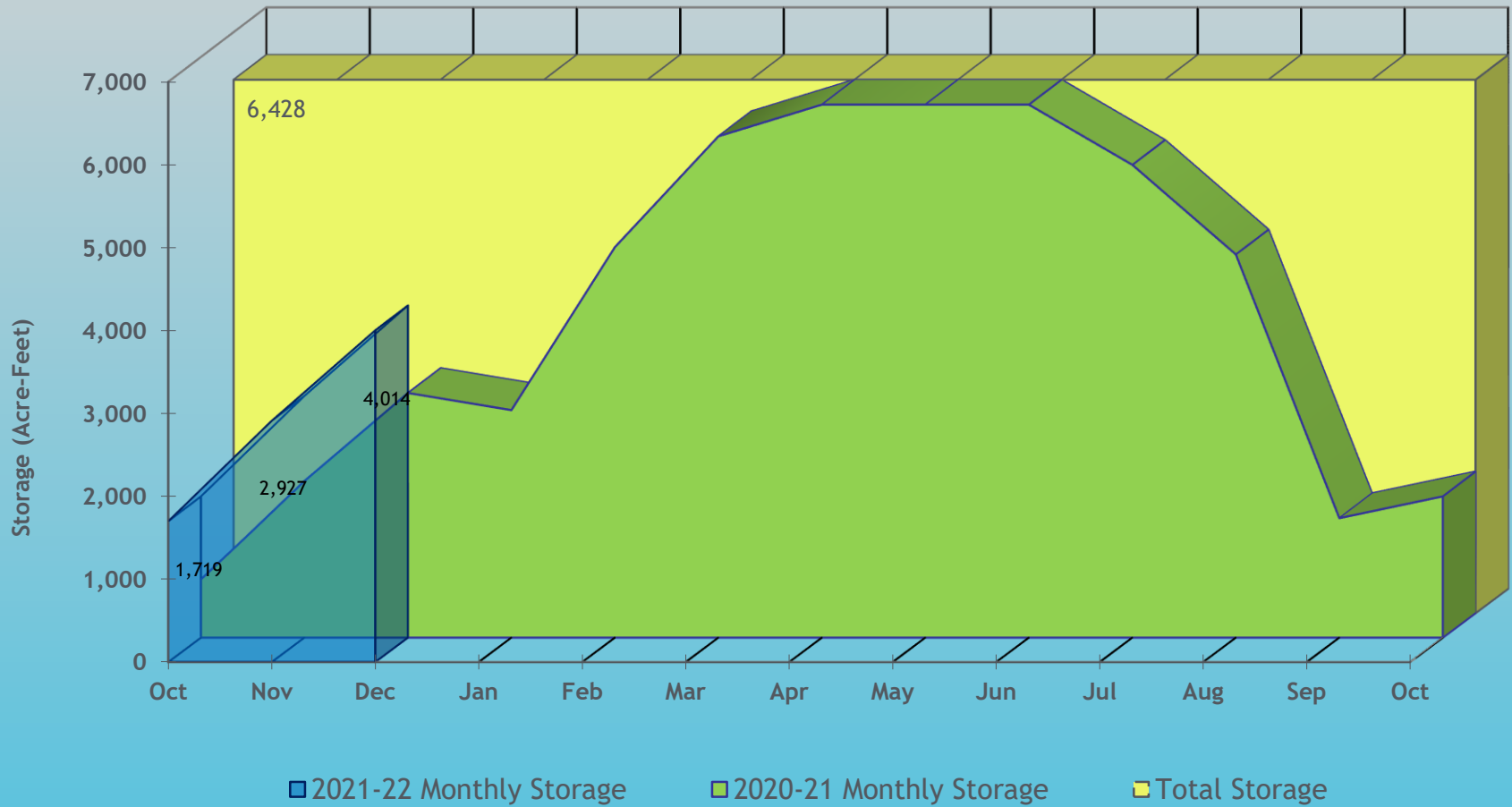


# Fossil Creek Reservoir (District 3, Poudre River - Agricultural)

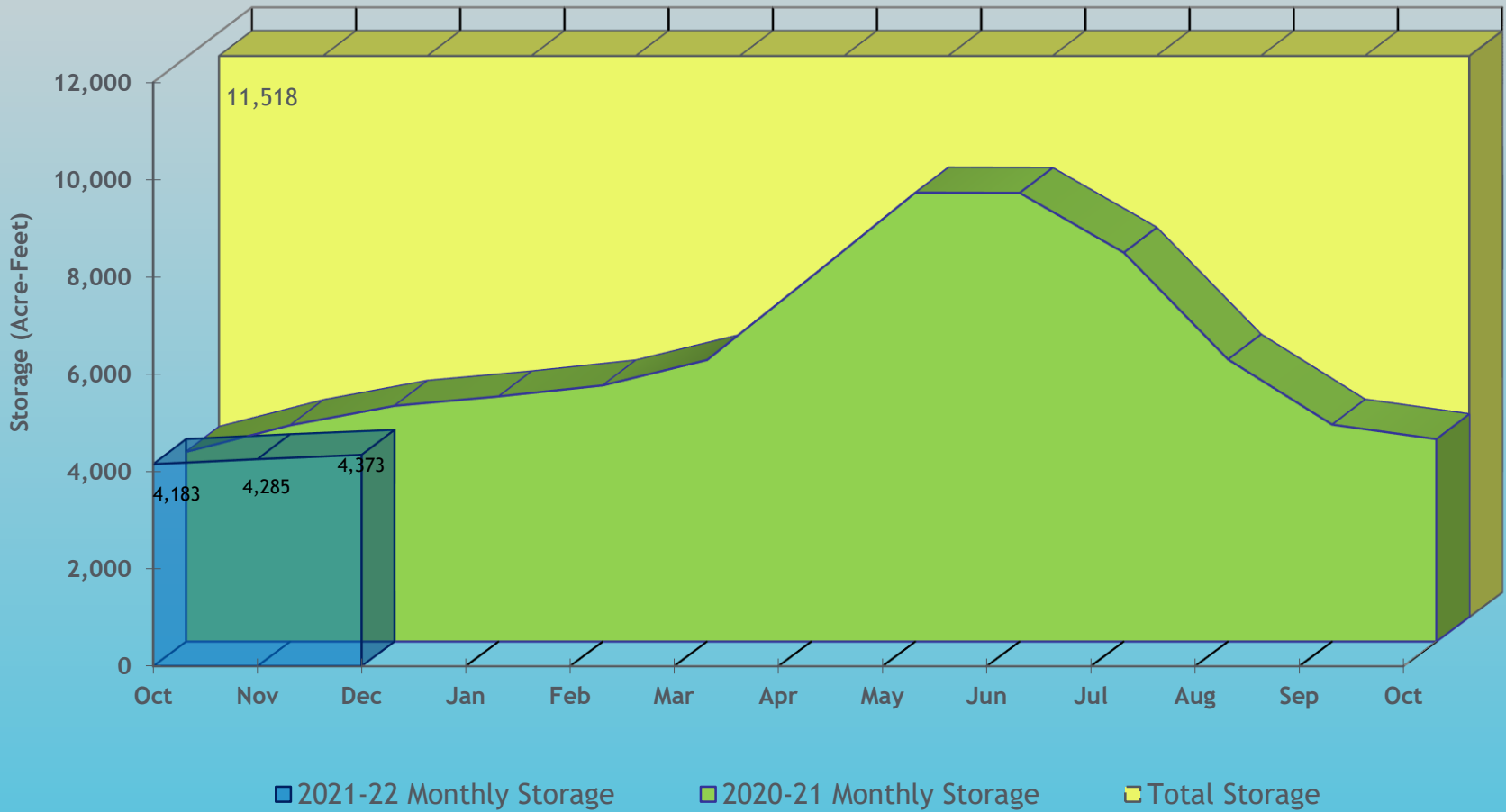




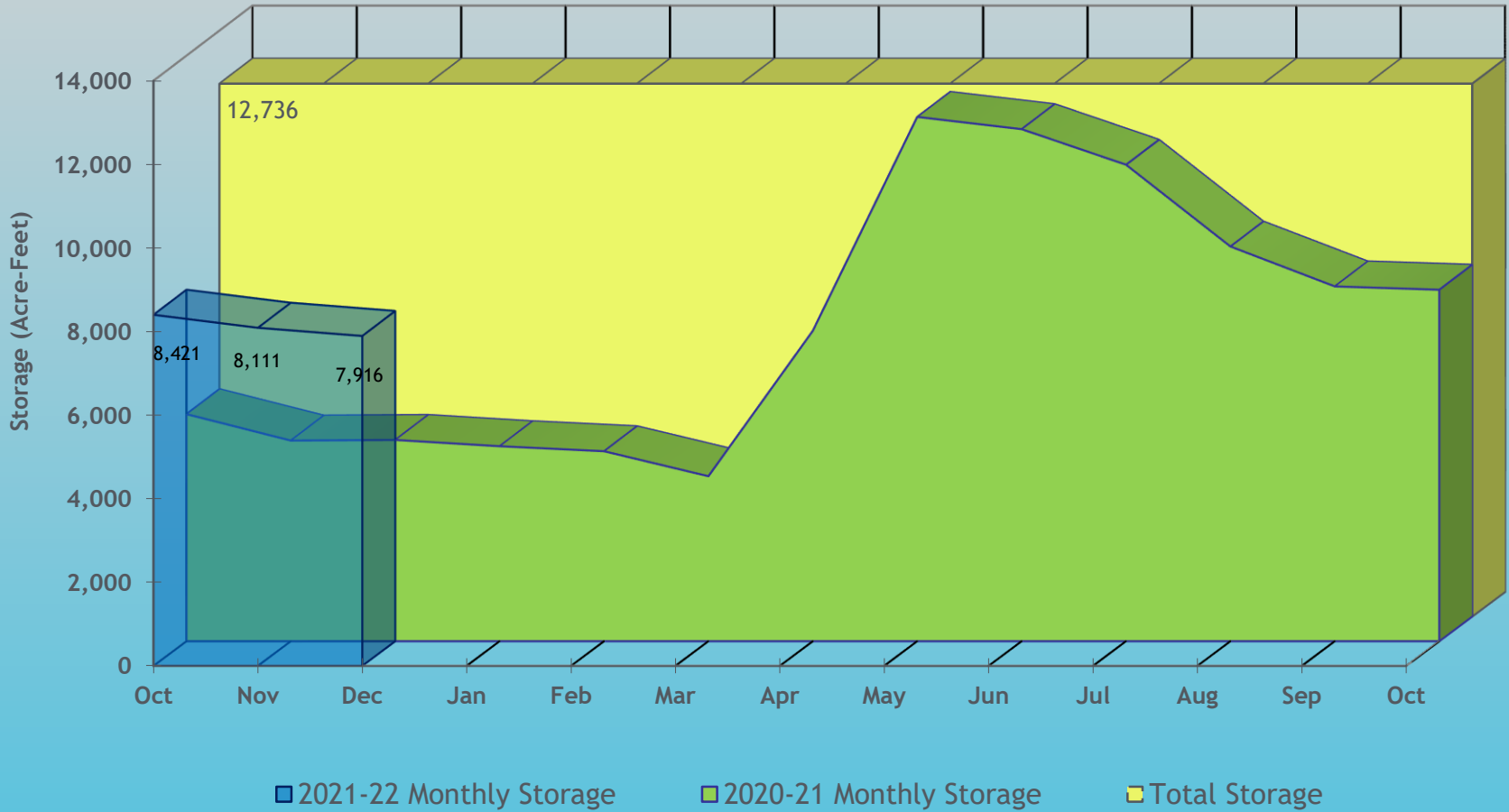
# Halligan Reservoir (District 3, Poudre River - Agricultural)



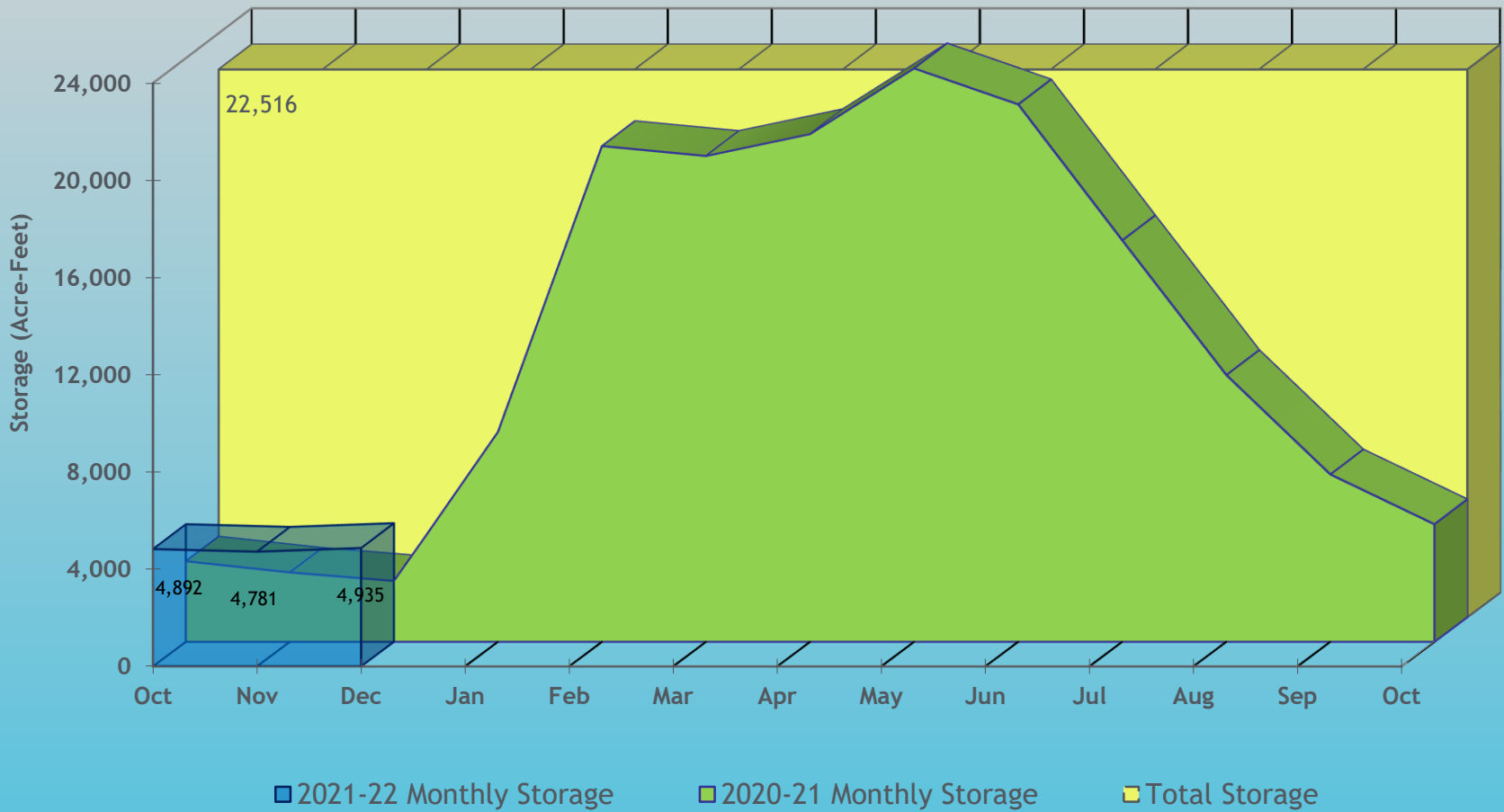
# Marshall Lake (District 6, Boulder Creek - Agricultural)



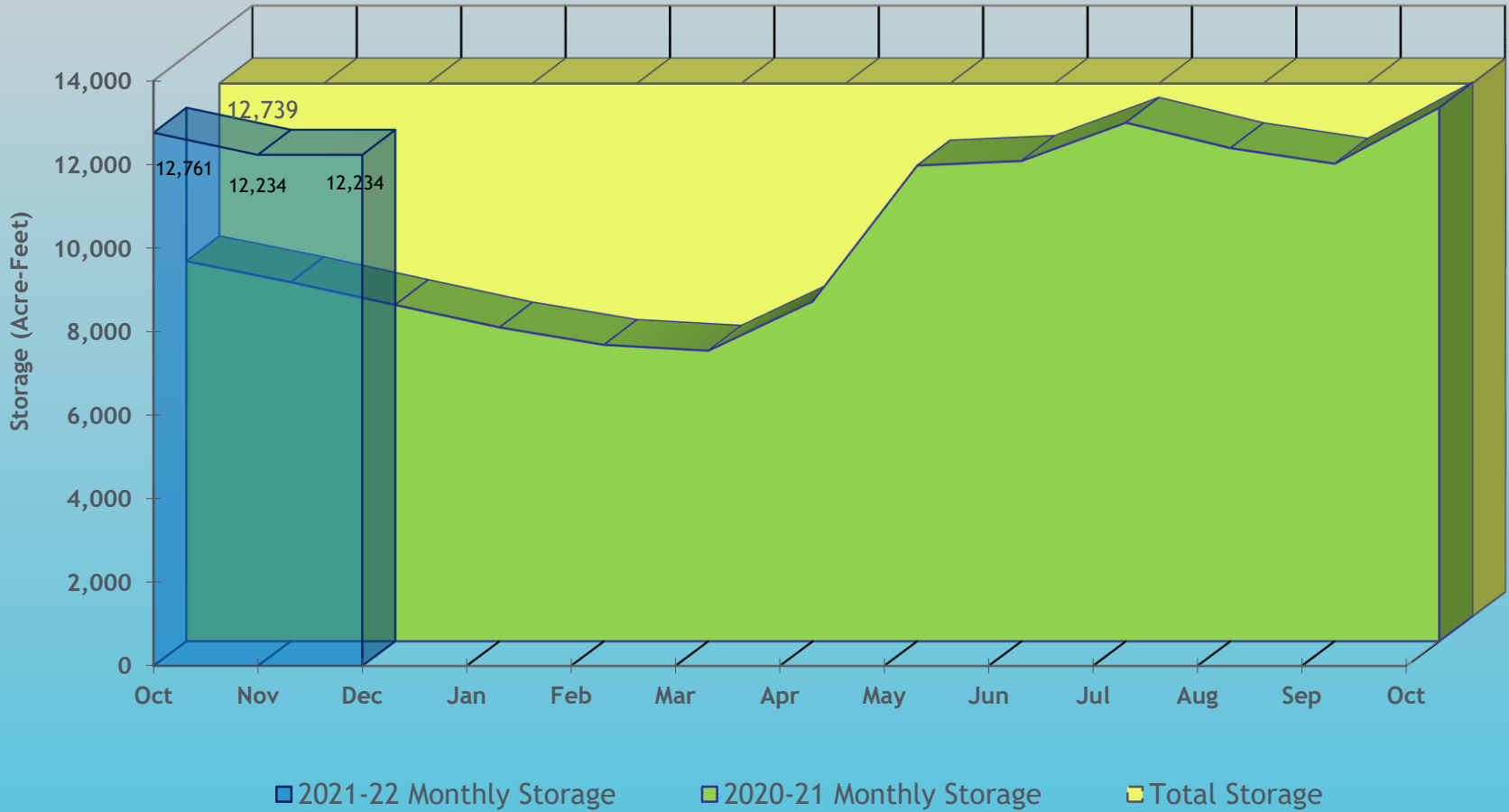
# Loveland Greeley Reservoir (District 4, Big Thompson River - Agricultural)



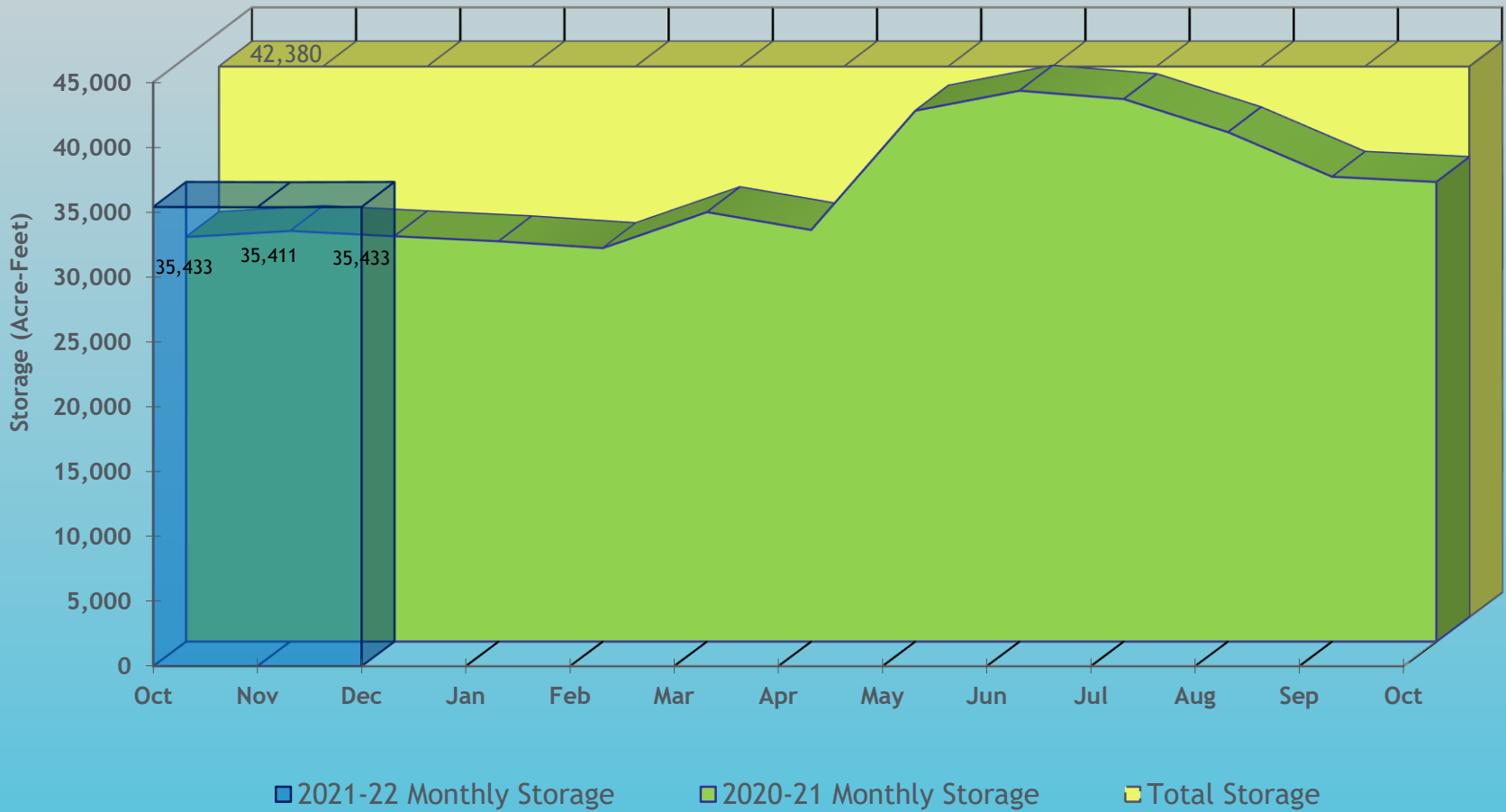
# Milton Reservoir (District 2 - Agricultural)



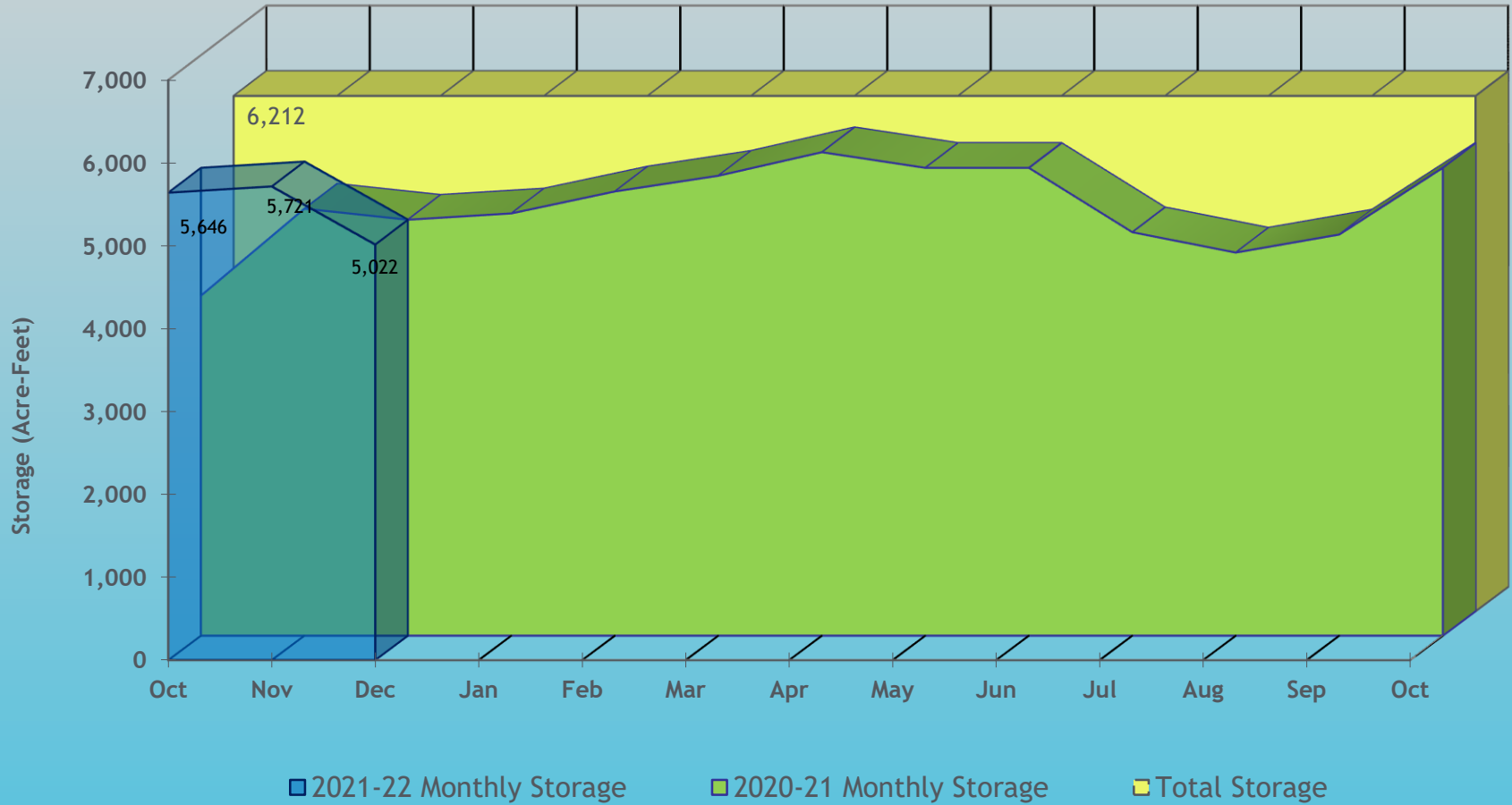
# Union Reservoir (District 5, St. Vrain Creek - Agricultural)



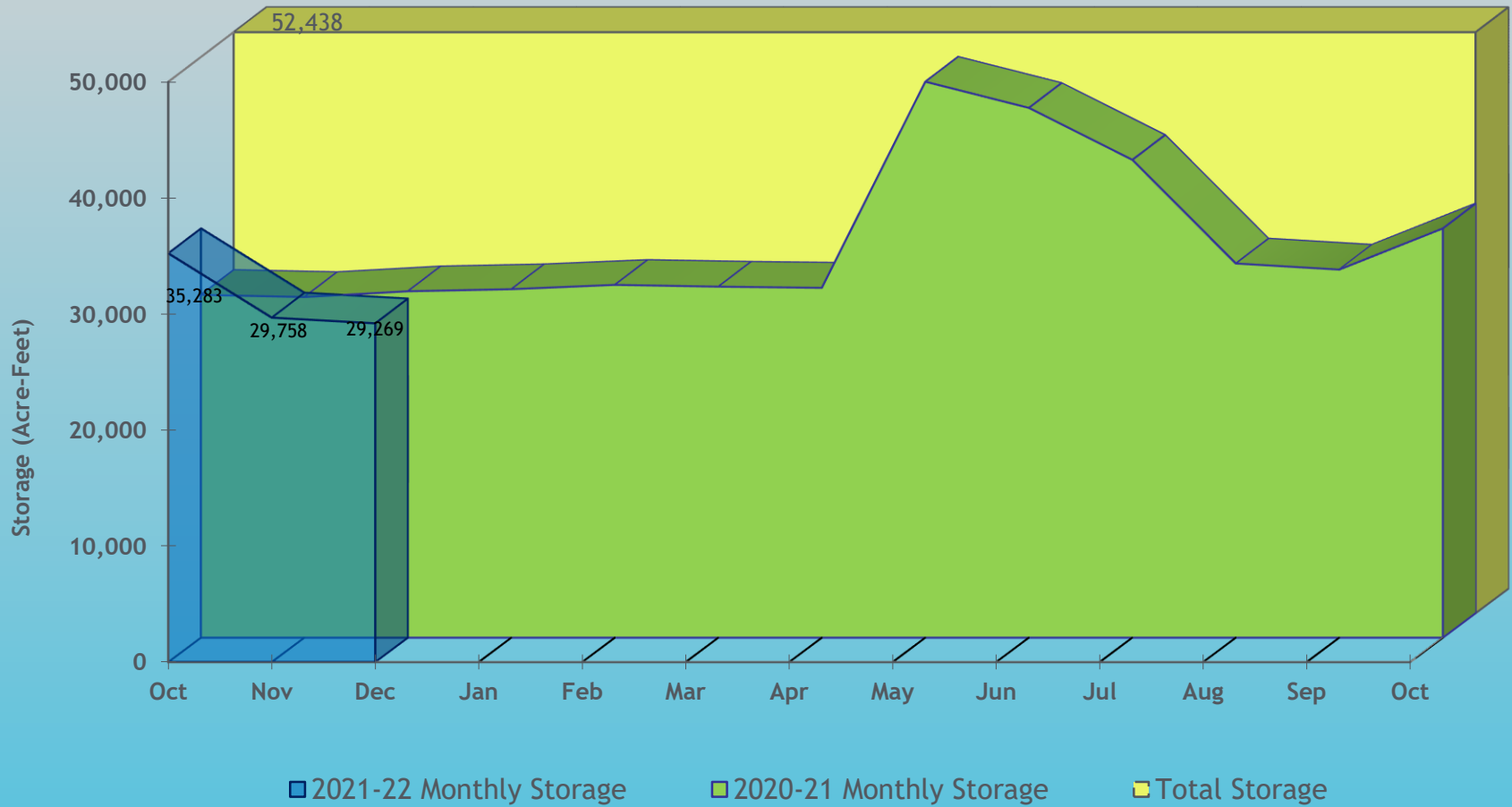
# Standley Lake (Agricultural)



# Lower Latham Reservoir (District 2 - Agricultural)

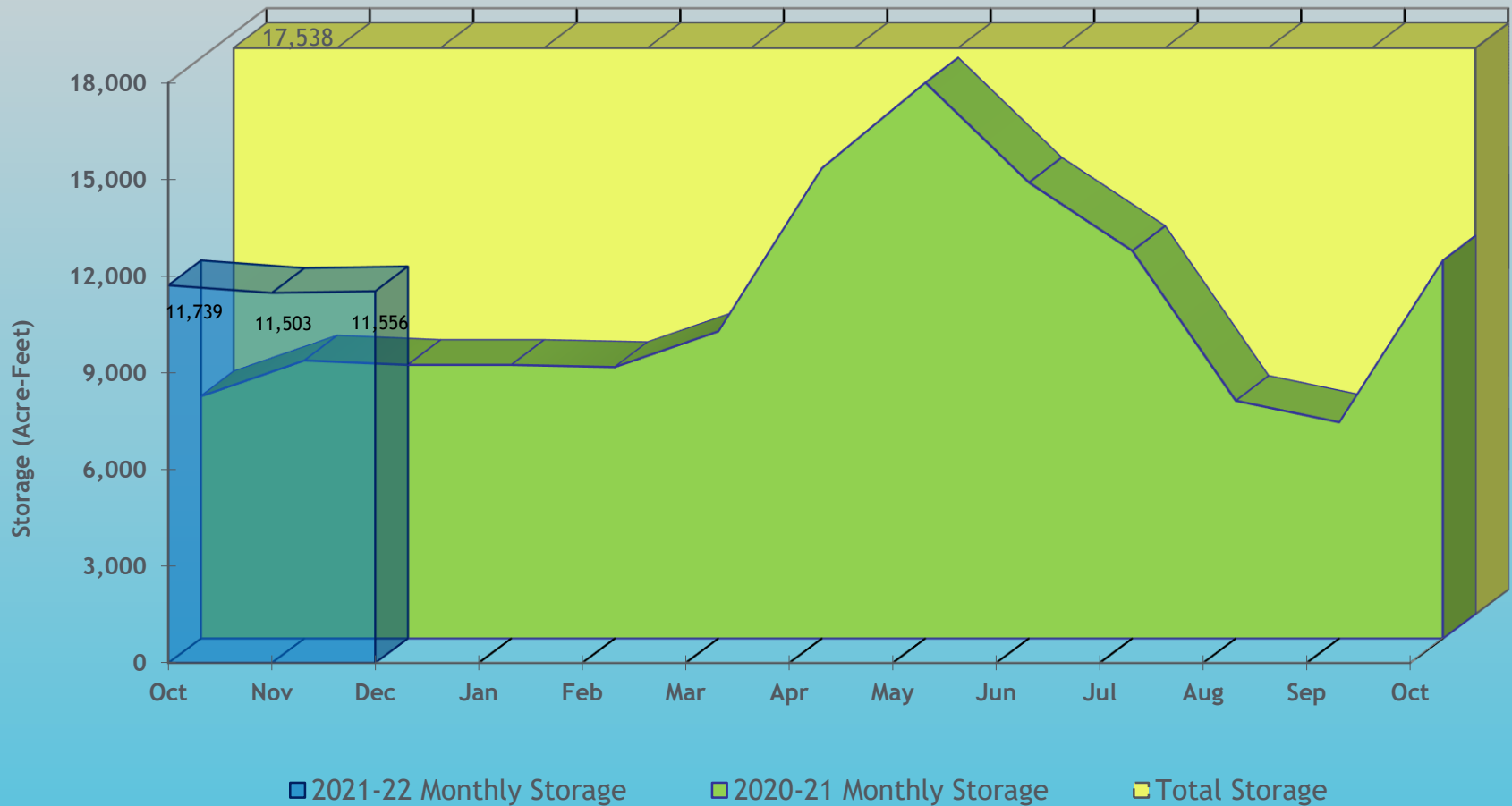


# Boyd Lake (District 4, Big Thompson River - Agricultural)

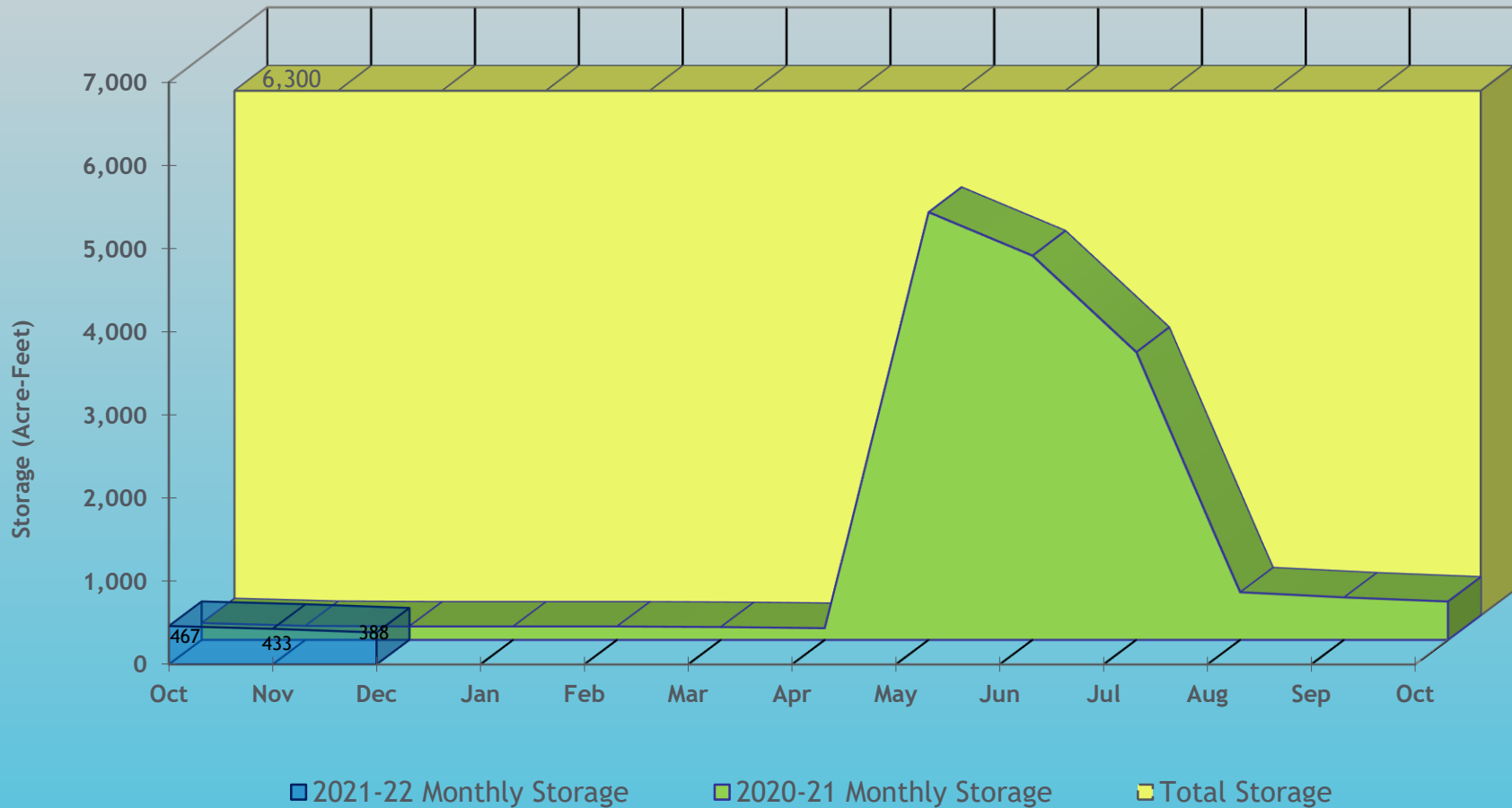




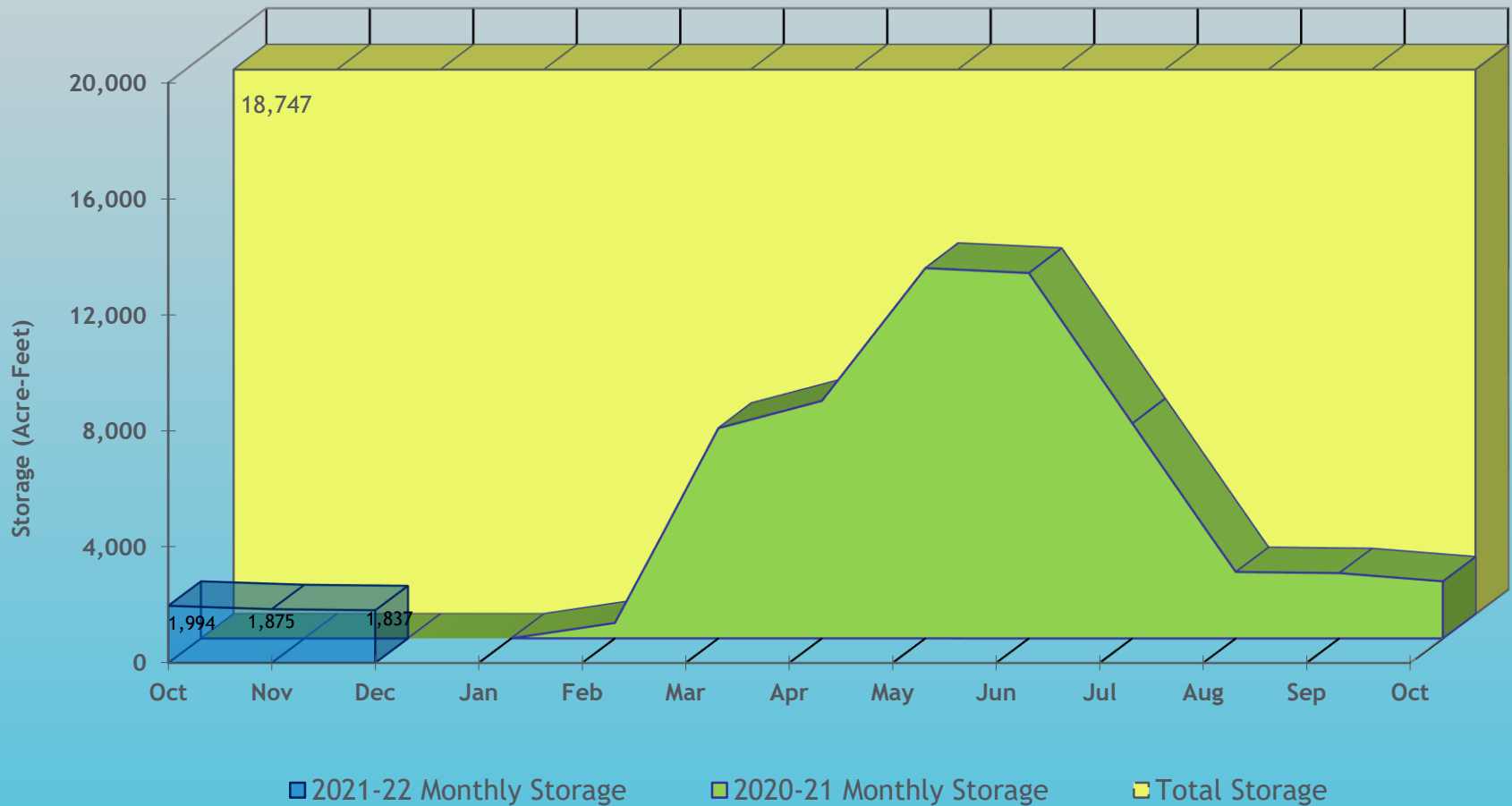
# Windsor Reservoir (District 3, Poudre River - Agricultural)



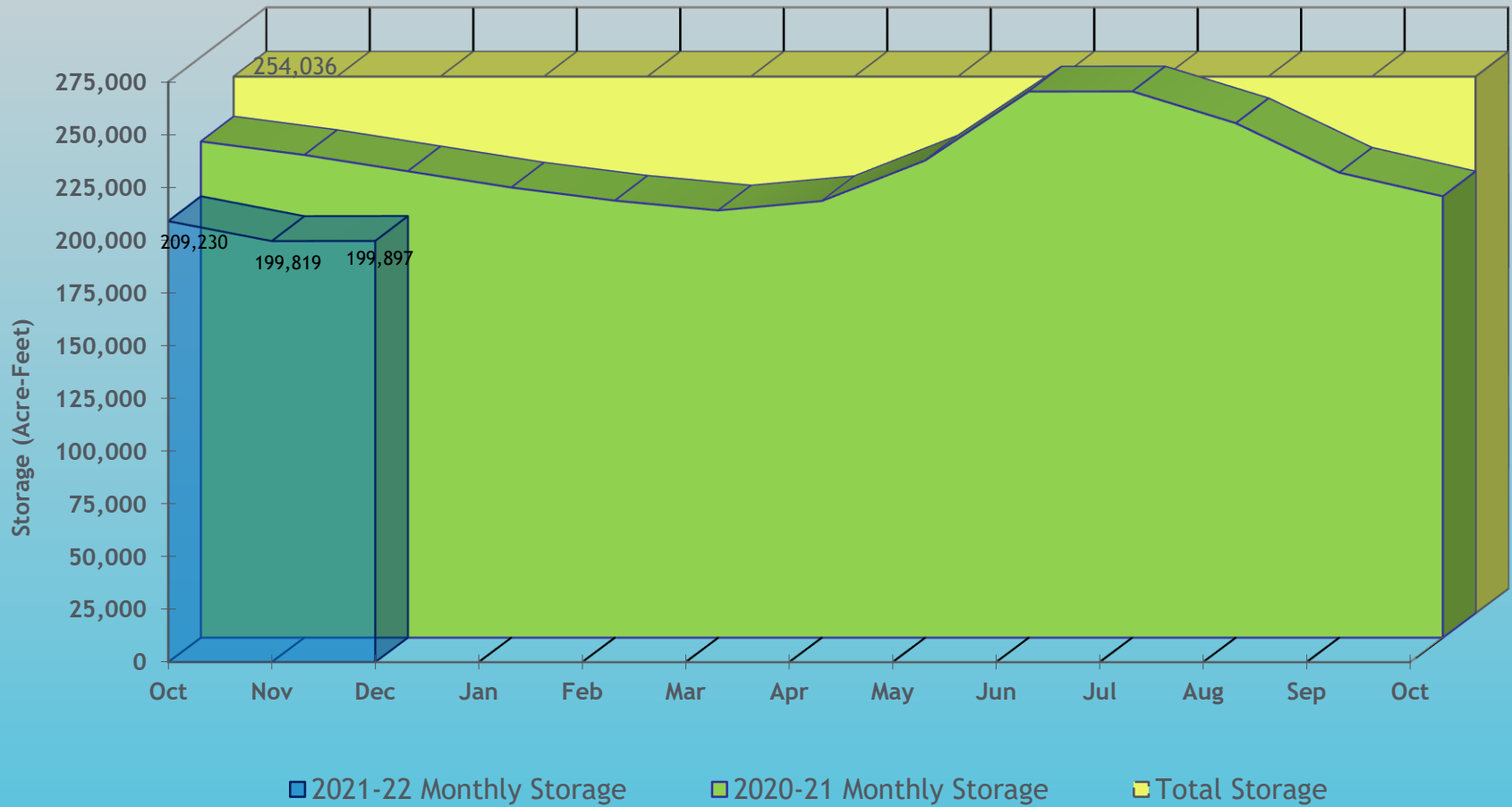
# Prospect Reservoir (District 1 - Agricultural)



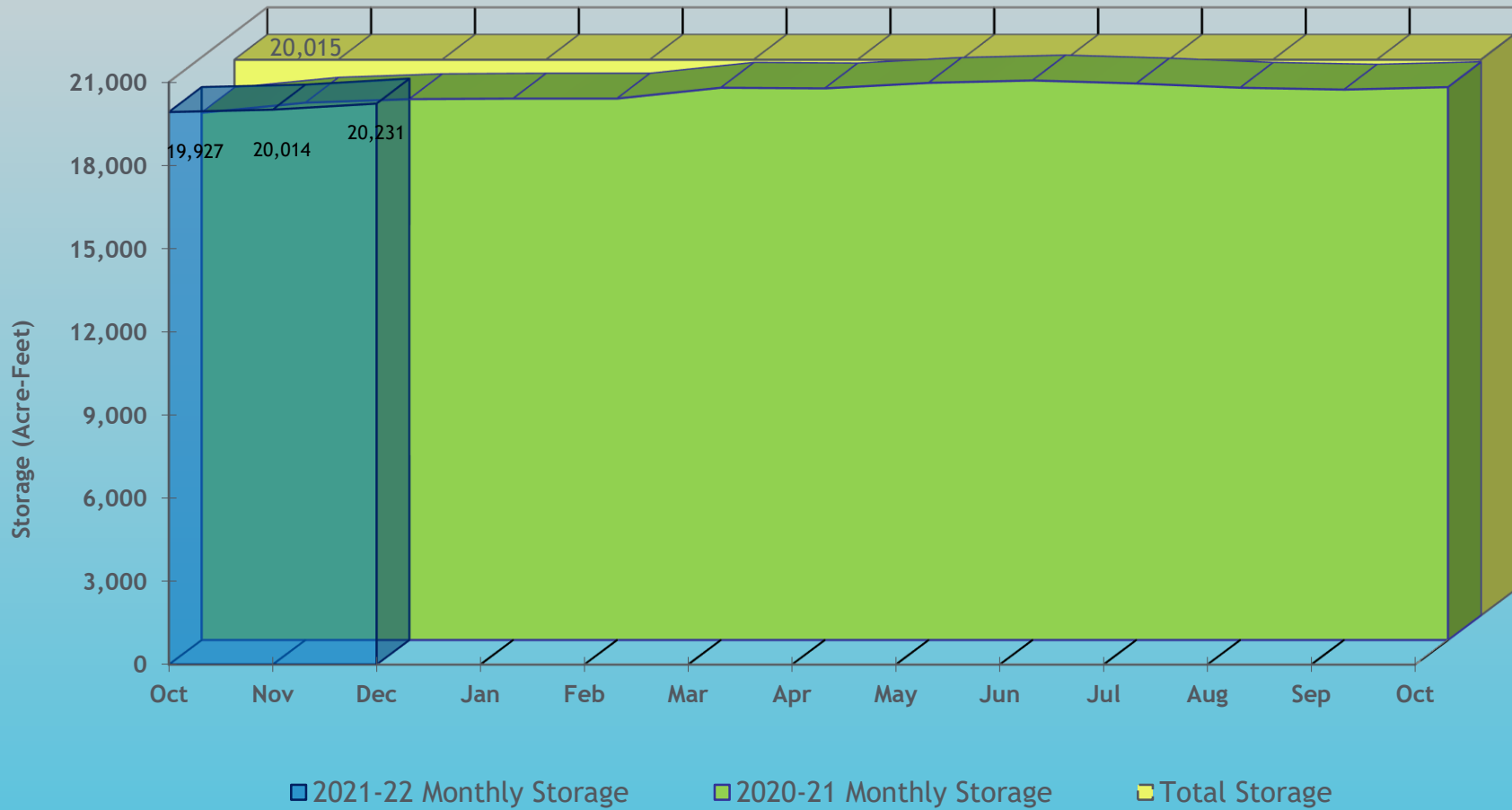
# Horse Creek Reservoir (District 1 - Agricultural)



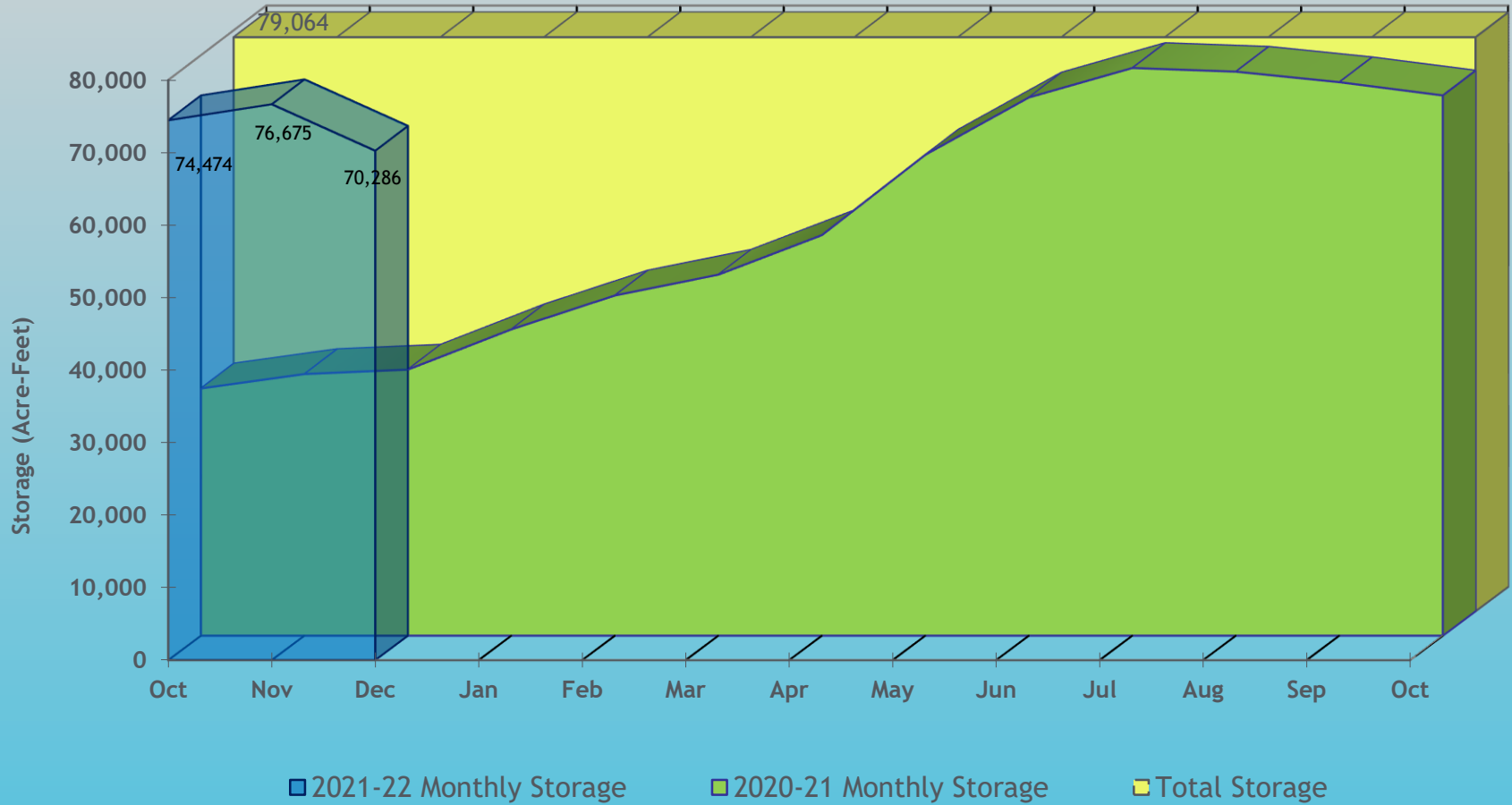
# Dillon Reservoir (District 1 - Municipal)



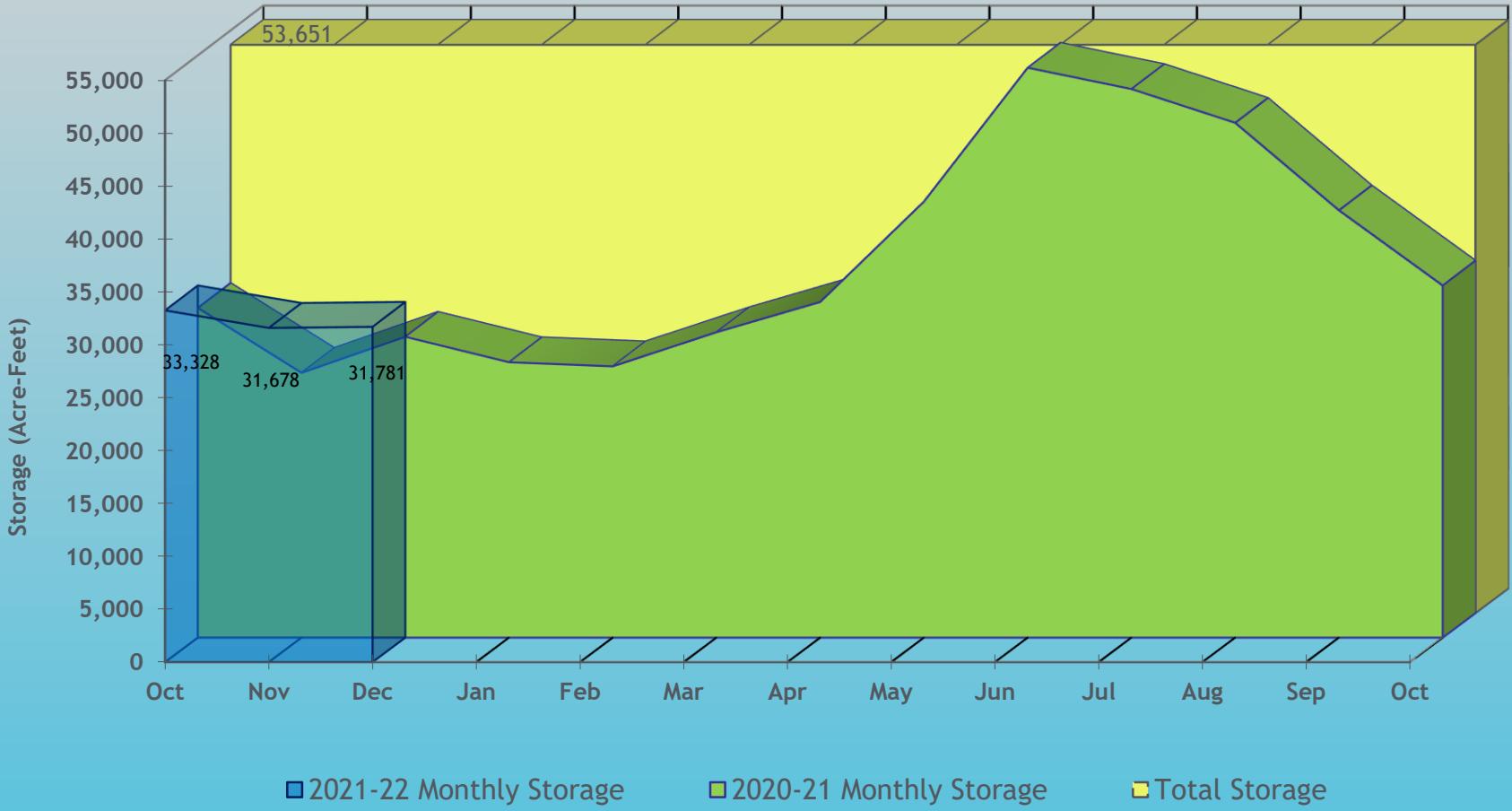
# Antero Reservoir (District 23 - Municipal)



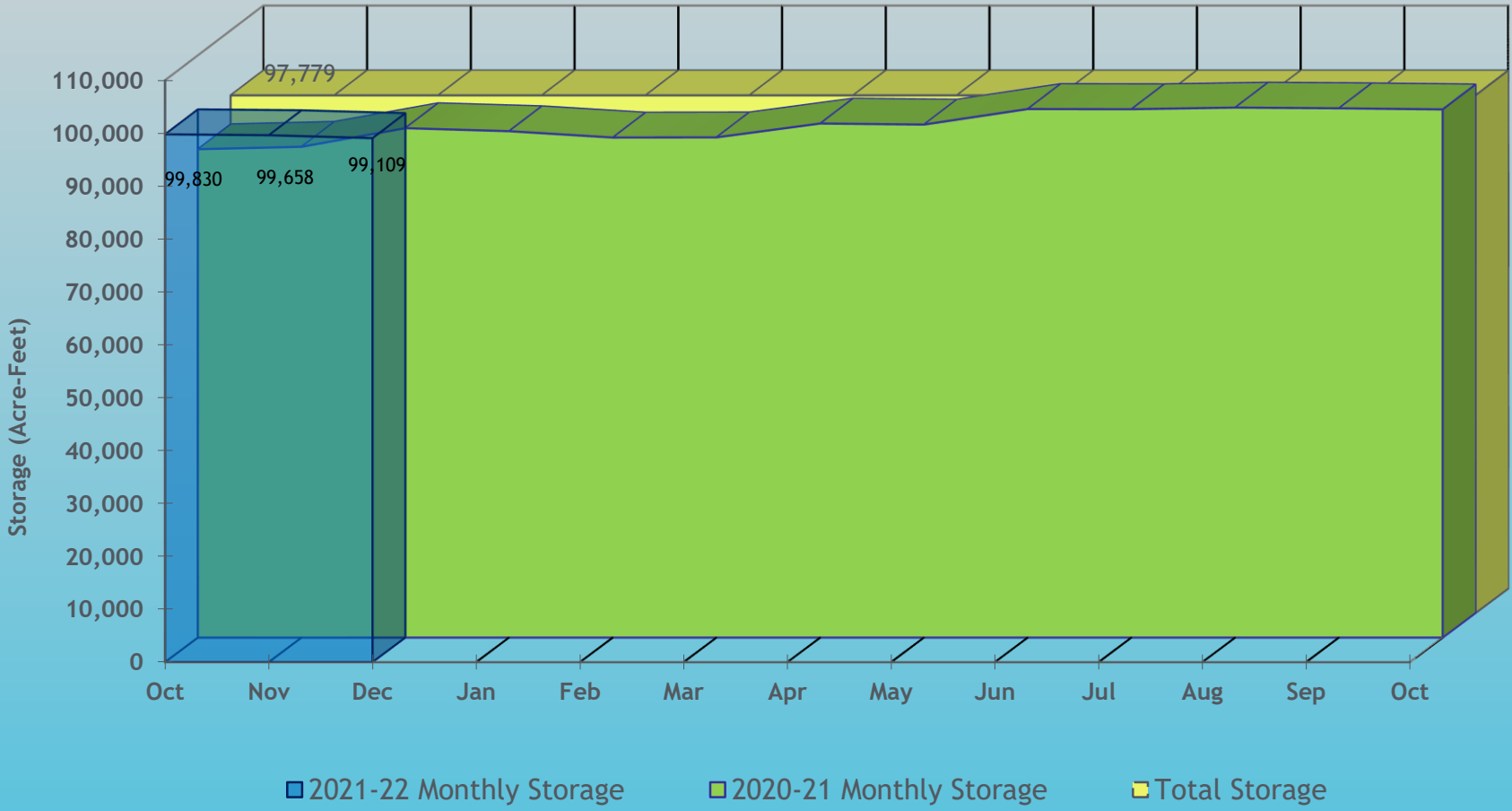
# Cheesman Reservoir (District 80 - Municipal)



# Spinney Mountain Reservoir (District 23 - Municipal)



# Eleven Mile Reservoir (District 23 - Municipal)





# Lake Granby

