


# South Platte Summary

May 2011



Grand River Ditch  
May 31, 2011  
Photo by: Mark Simpson

Compiled by Lee Cuning, P.E.



**COLORADO DIVISION OF  
WATER RESOURCES**  
DEPARTMENT OF NATURAL RESOURCES

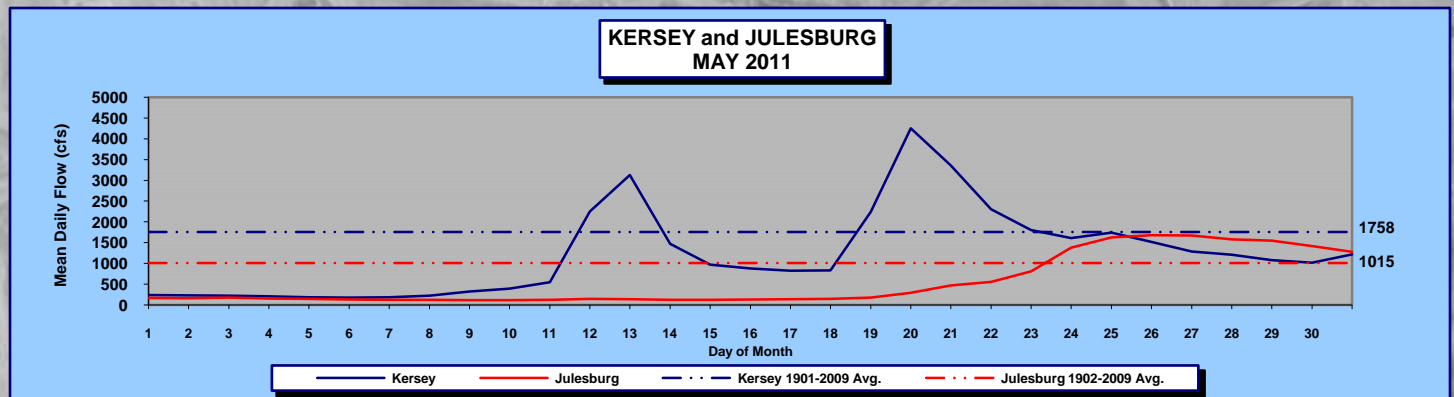
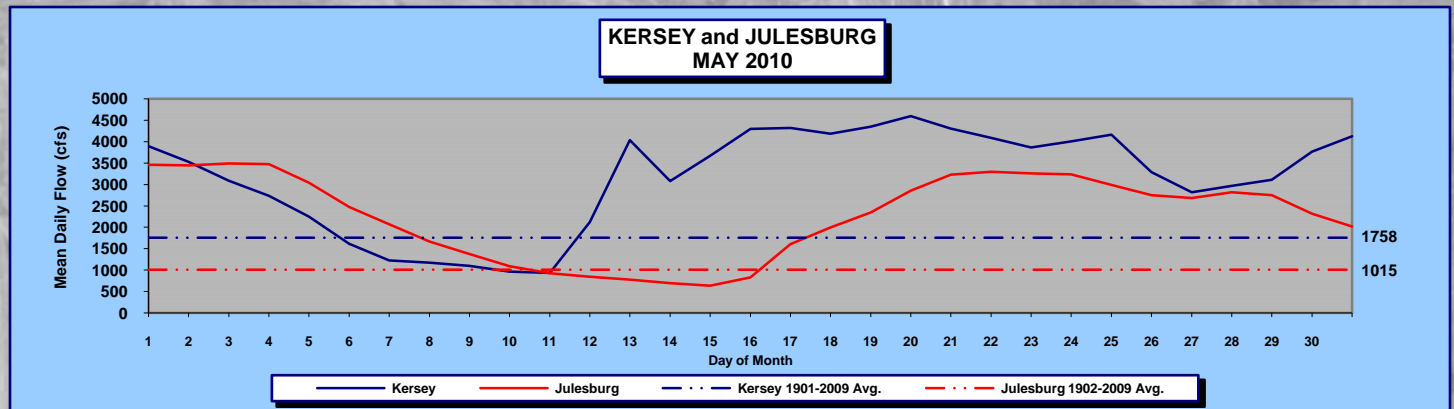
# COLORADO DIVISION OF WATER RESOURCES, DIVISION 1

## MONTH OF MAY 2011

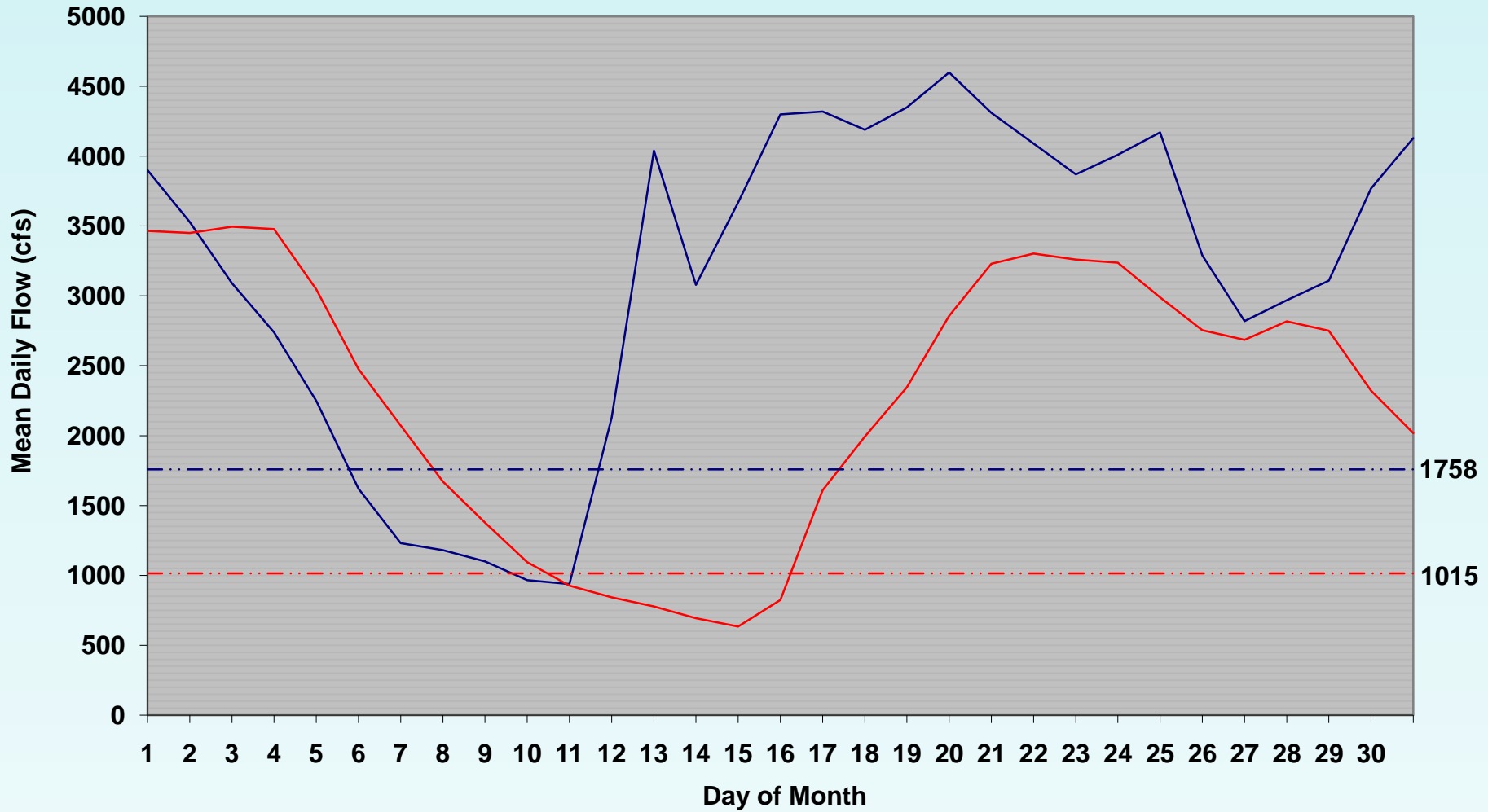
RESERVOIR	FULL ALLOWABLE CAPACITY (ACRE FEET)	FIRST OF MONTH (ACRE FEET)	END OF MONTH (ACRE FEET)	DISTRICT	CHANGE IN STORAGE (ACRE FEET)	% CHANGE IN STORAGE BASED ON FIRST OF MONTH STORAGE	% OF CURRENT FULL ALLOWABLE CAPACITY	% OF CURRENT FULL ALLOWABLE CAPACITY THIS MONTH LAST YEAR	SURCHARGE (ACRE FEET)
JULESBURG	22,666	22,666	22,666	64	0	0%	100%	97%	0
N STERLING	73,730	74,300	74,300	64	0	0%	100%	98%	570
PREWITT	28,500	28,597	28,597	64	0	0%	100%	96%	97
JACKSON	27,257	26,654	26,654	1	0	0%	98%	100%	0
EMPIRE	37,700	33,992	33,992	1	0	0%	90%	99%	0
RIVERSIDE	63,113	60,923	60,923	1	0	0%	97%	100%	0
BARR LAKE	32,152	27,653	28,384	2	731	3%	88%	92%	0
CHEESMAN	79,064	66,945	66,827	80	-118	0%	85%	99%	0
ELEVEN MILE	97,779	99,349	100,002	23	653	1%	100%	100%	2,223
SPINNEY	53,651	41,326	40,080	23	-1,246	-3%	75%	90%	0
ANTERO	20,015	19,625	17,509	23	-2,116	-11%	87%	100%	0

RIVER GAGES	MEAN DAILY FLOW (CFS)
<b>KERSEY</b>	<b>1224</b>
<b>JULESBURG</b>	<b>550</b>
<b>THIS MONTH LAST YEAR</b>	
<b>KERSEY</b>	<b>3154</b>
<b>JULESBURG</b>	<b>2274</b>
<b>MEAN FOR PERIOD OF RECORD*</b>	
<b>KERSEY</b>	<b>1758</b>
<b>JULESBURG</b>	<b>1015</b>

\* 1901-2010  
1902-2010

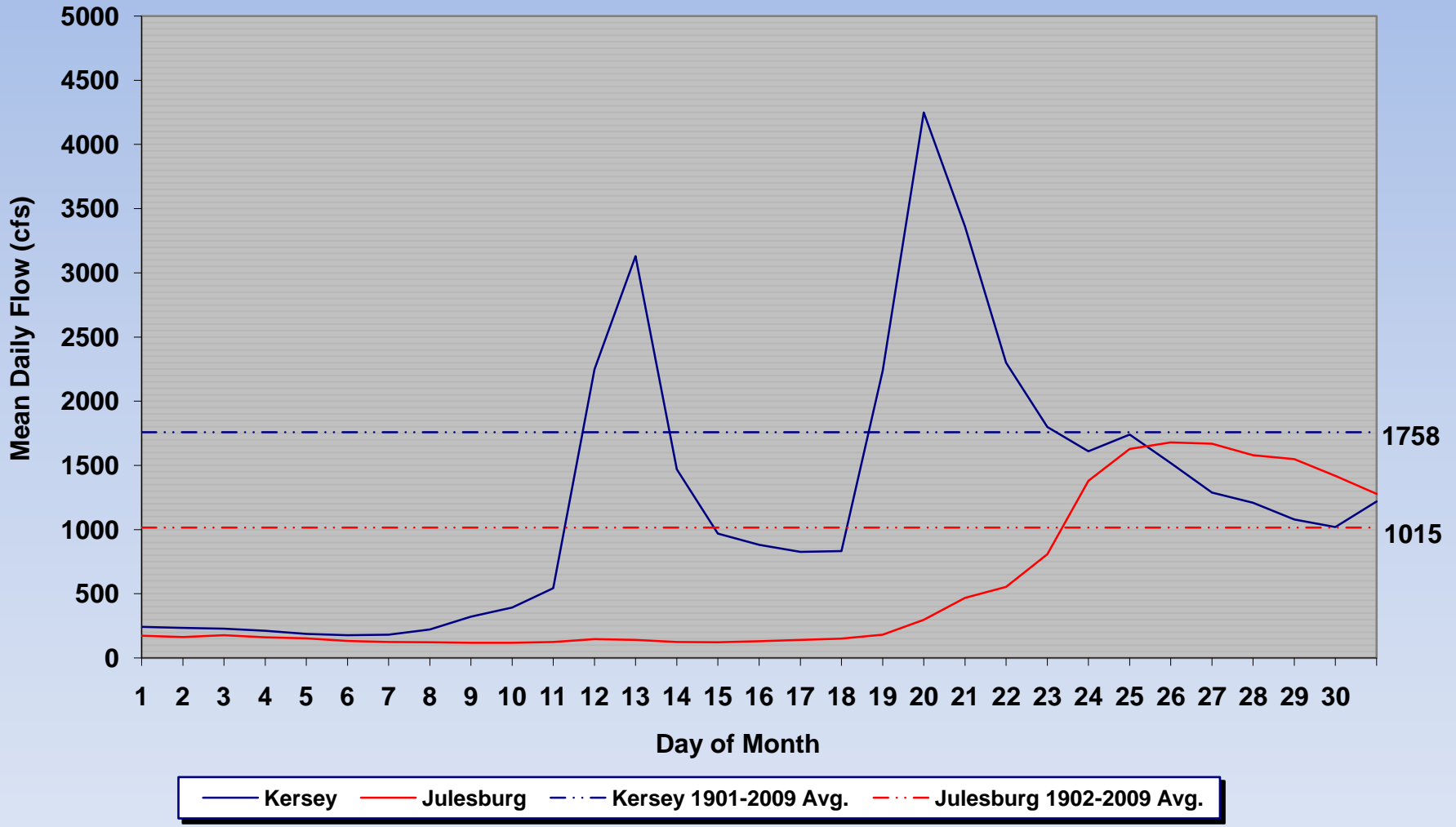


# KERSEY and JULESBURG MAY 2010

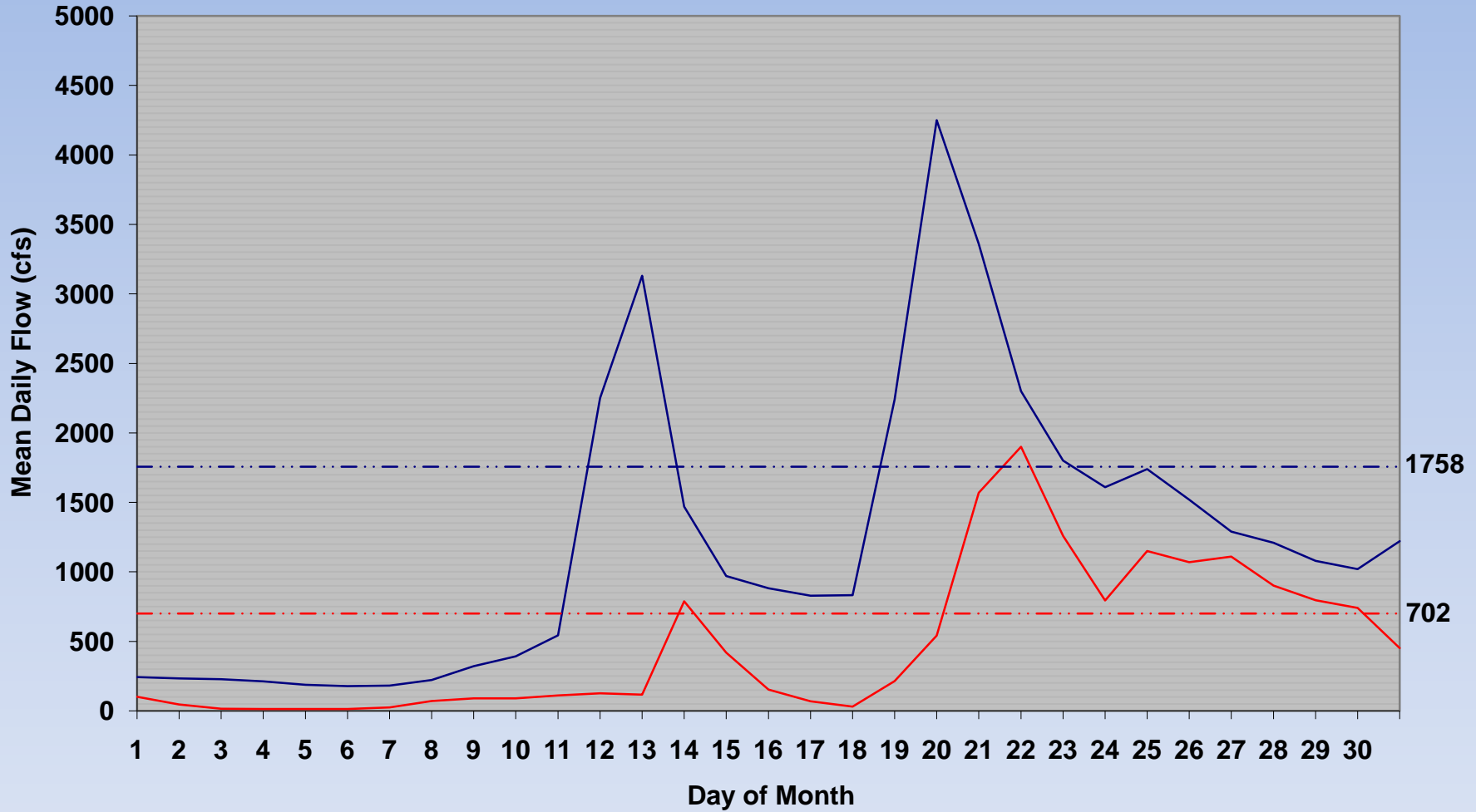


— Kersey — Julesburg - · - Kersey 1901-2009 Avg. - · - Julesburg 1902-2009 Avg.

# KERSEY and JULESBURG MAY 2011



# KERSEY and BALZAC MAY 2011



— Kersey — Balzac - · - · Kersey 1901-2009 Avg. - · - · Balzac 1917-2009 Avg.

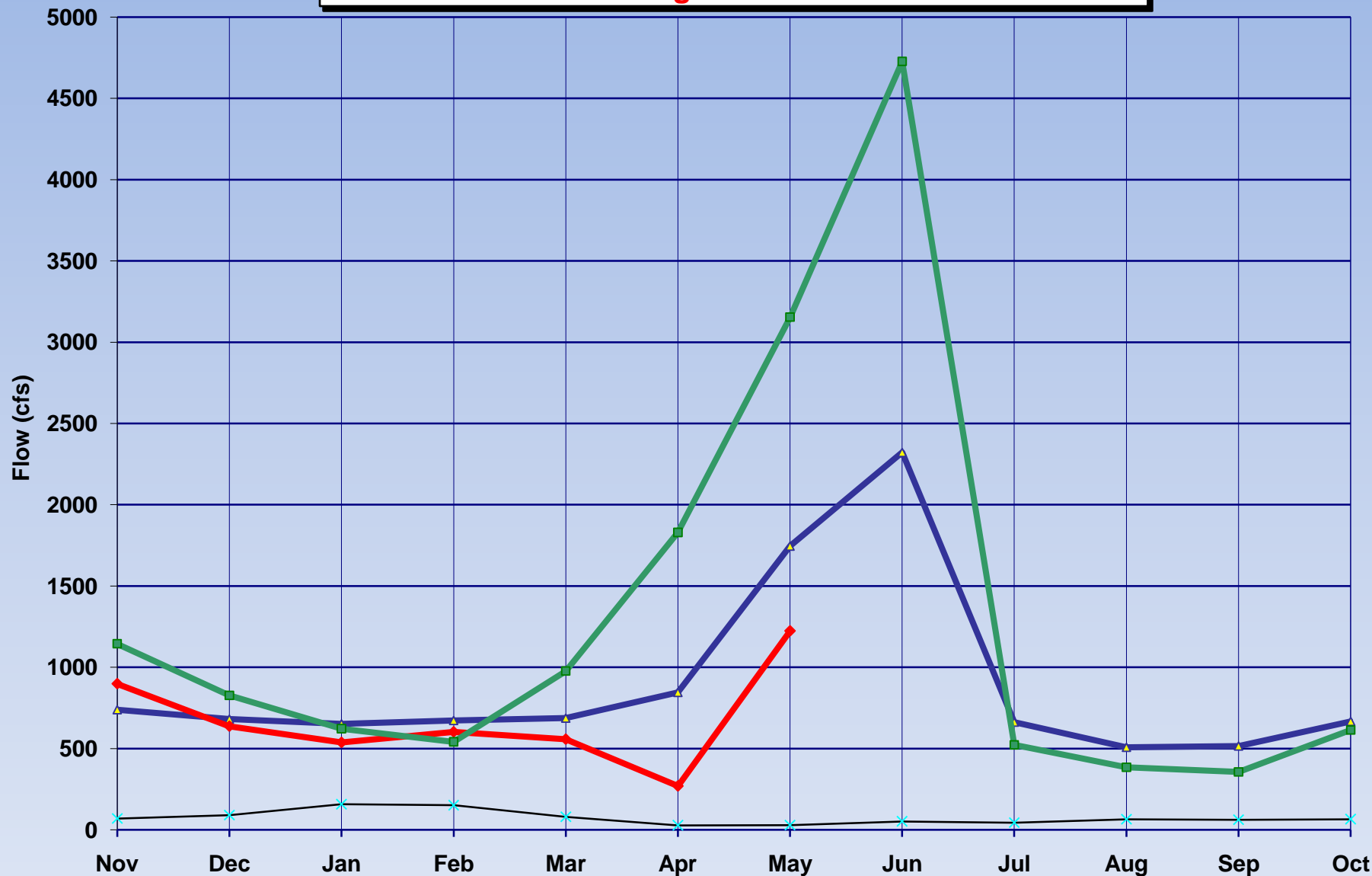


# South Platte River Monthly Stream Flow (cfs) Statistics

South Platte River at Kersey							South Platte River at Julesburg						
Month	Historic* Mean Flow	Historic* Max Flow	Year	Historic* Min Flow	Year	IY 2011 Mean Monthly Flow	Month	Historic* Mean Flow	Historic* Max Flow	Year	Historic* Min Flow	Year	IY 2011 Mean Monthly Flow
Nov	740	3650	1984	70	1934	888	Nov	335	2900	1984	4.2	1903	186
Dec	682	1890	1961	91	1934	638	Dec	397	1820	1984	13	2002	249
Jan	652	2160	1974	158	1935	538	Jan	509	2510	1970	21	2003	404
Feb	674	3060	1914	152	1935	603	Feb	582	3220	1930	29	2005	500
Mar	688	3470	1983	80	1935	558	Mar	522	12900	1910	15	1904	205
Apr	846	18100	1942	28	1955	270	Apr	523	14400	1942	4.0	1904	157
May	1746	26100	1973	29	1955	1224	May	1003	18100	1973	12	1911	550
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	668	6180	1984	66	1954		Oct	301	3130	1984	4.2	1903	
*Period of record 1902-2010							*Period of record 1902-2010						

# South Platte River at Kersey

Irrigation Year

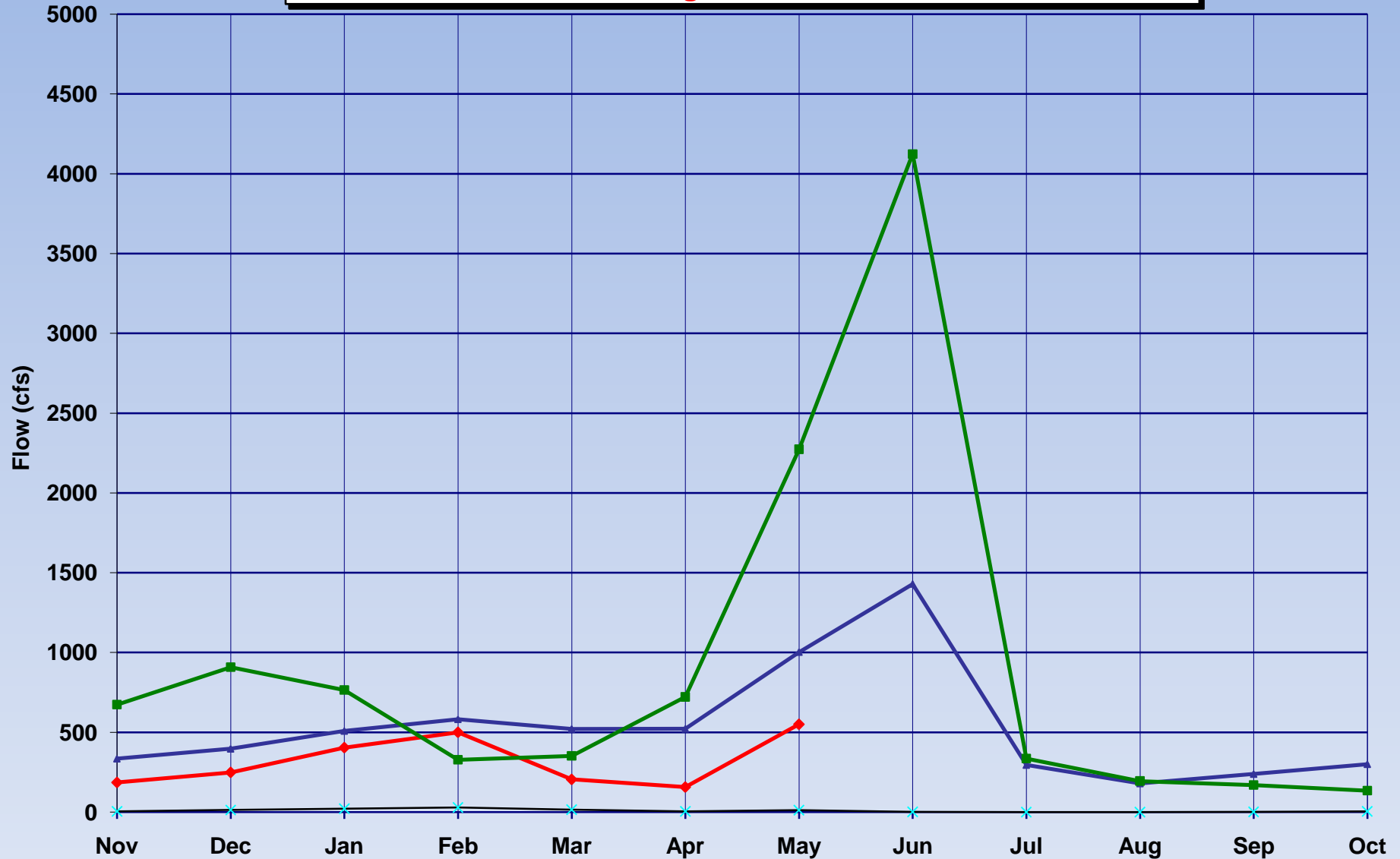


—▲— Historic\* Mean Flow    —×— Historic\* Min Flow    —◆— 2010-2011 Mean Flow    —■— 2009-2010 Mean Flow

\*1901-2010

# South Platte River at Julesburg

Irrigation Year



Historic\* Mean Flow

Historic\* Min Flow

2010-2011 Mean Flow

2009-2010 Mean Flow

\*1902-2010



**Next four slides show Reservoir Storage  
above and below Kersey**



Horsetooth Dam Outlet  
Photo by: Lee Cunning

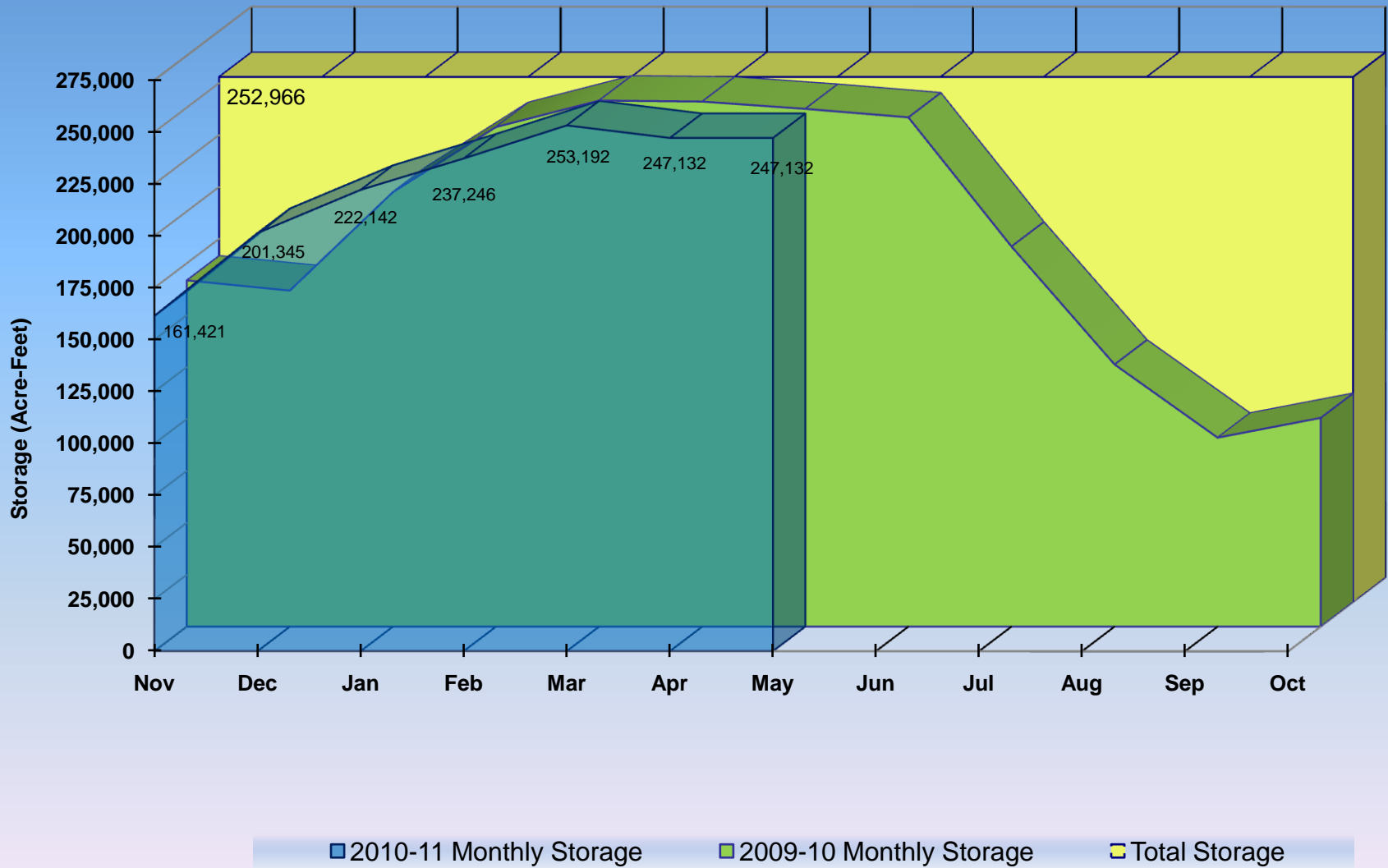
# Reservoir Storage below Kersey

Selected Reservoirs\*



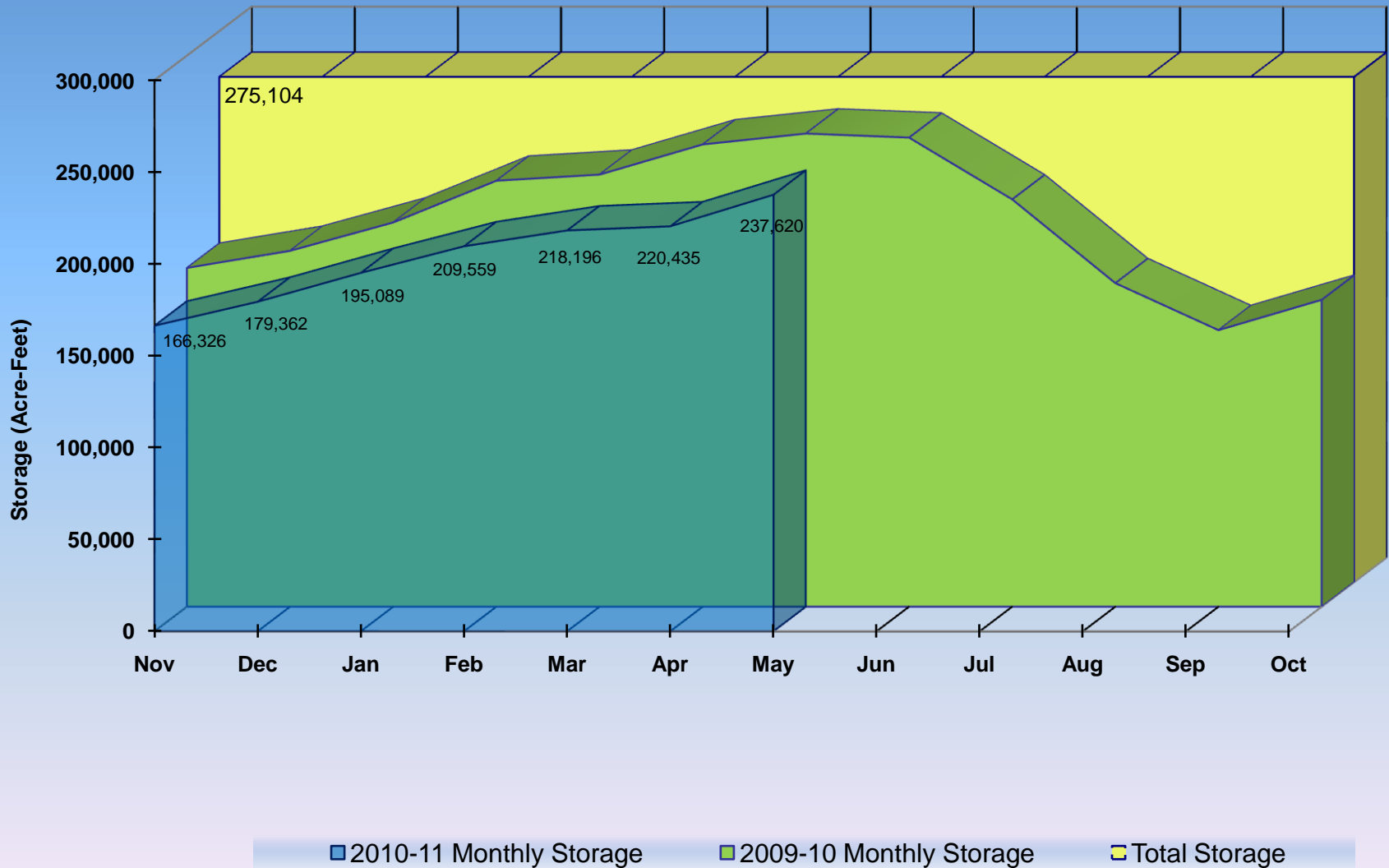
\*Empire, Riverside, Jackson, Prewitt, North Sterling, & Julesburg

# South Platte Reservoir Storage below Kersey\*



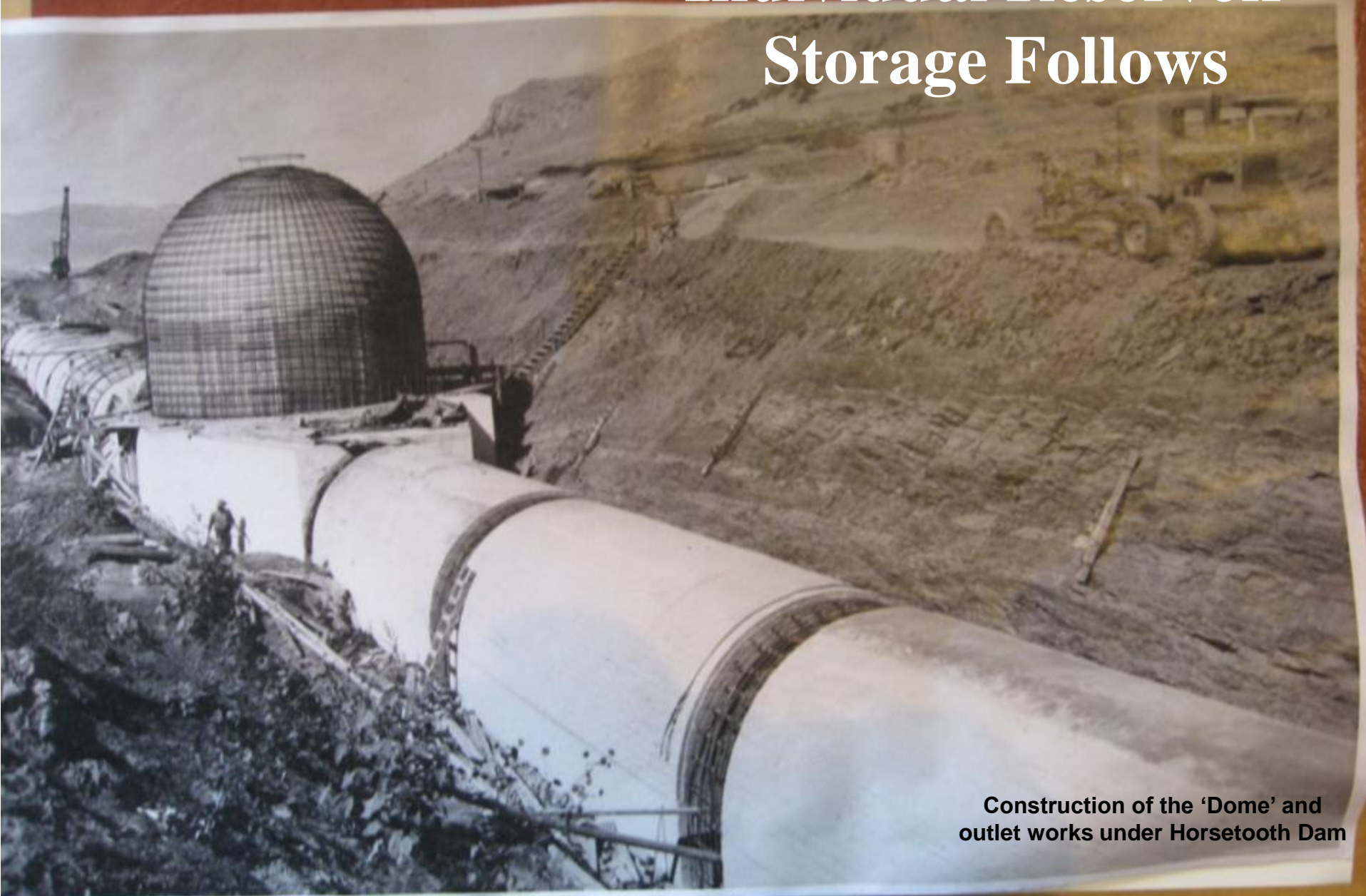
\*Empire, Riverside, Jackson, Prewitt, North Sterling, & Julesburg

# South Platte Reservoir Storage above Kersey\*



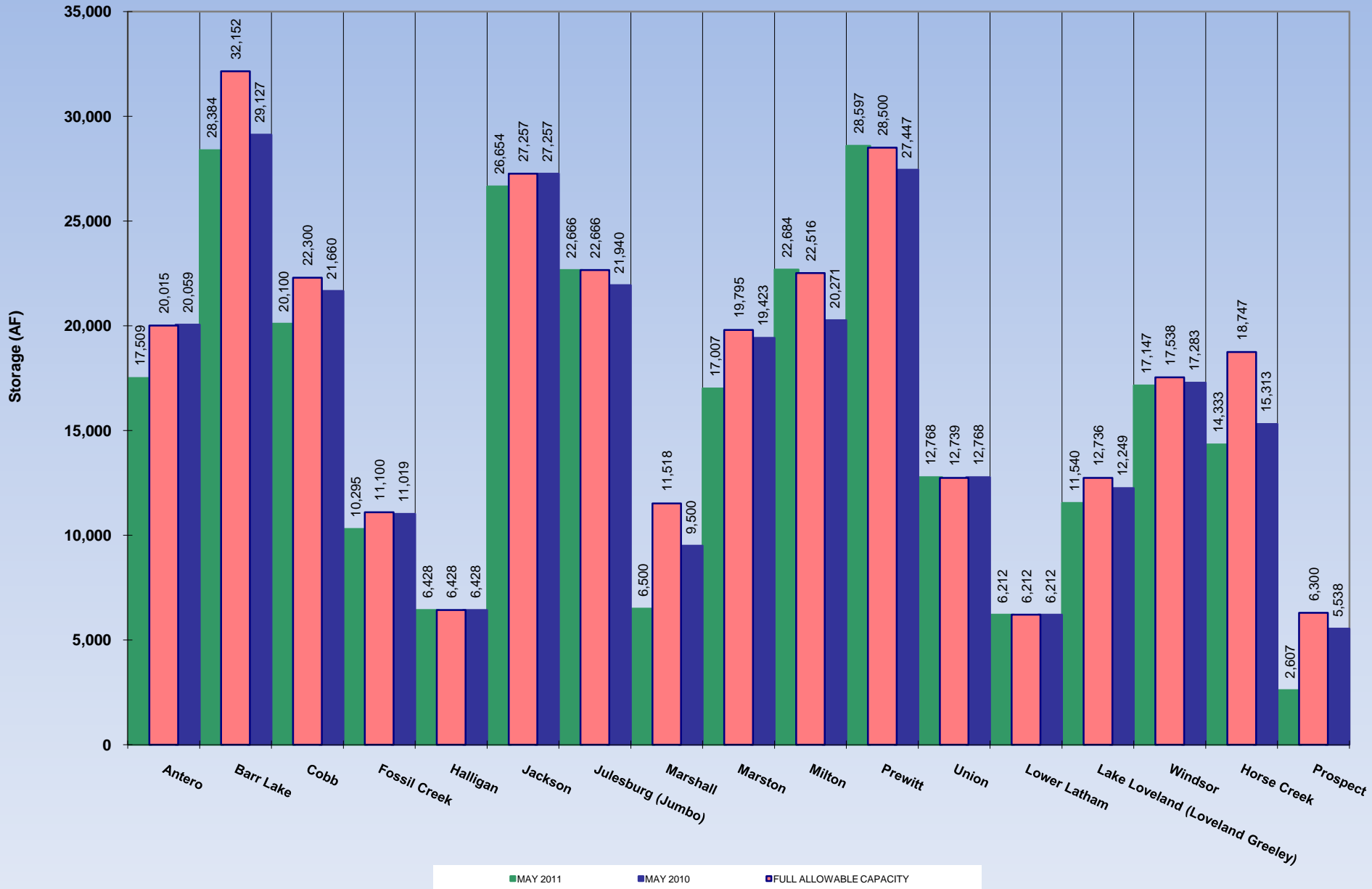
\*Barr, Cobb, Fossil Crk, Halligan, Marshall, Milton, Union, Standley, Lower Latham, Boyd, Loveland, Windsor, Horse Crk, & Prospect

# Individual Reservoir Storage Follows

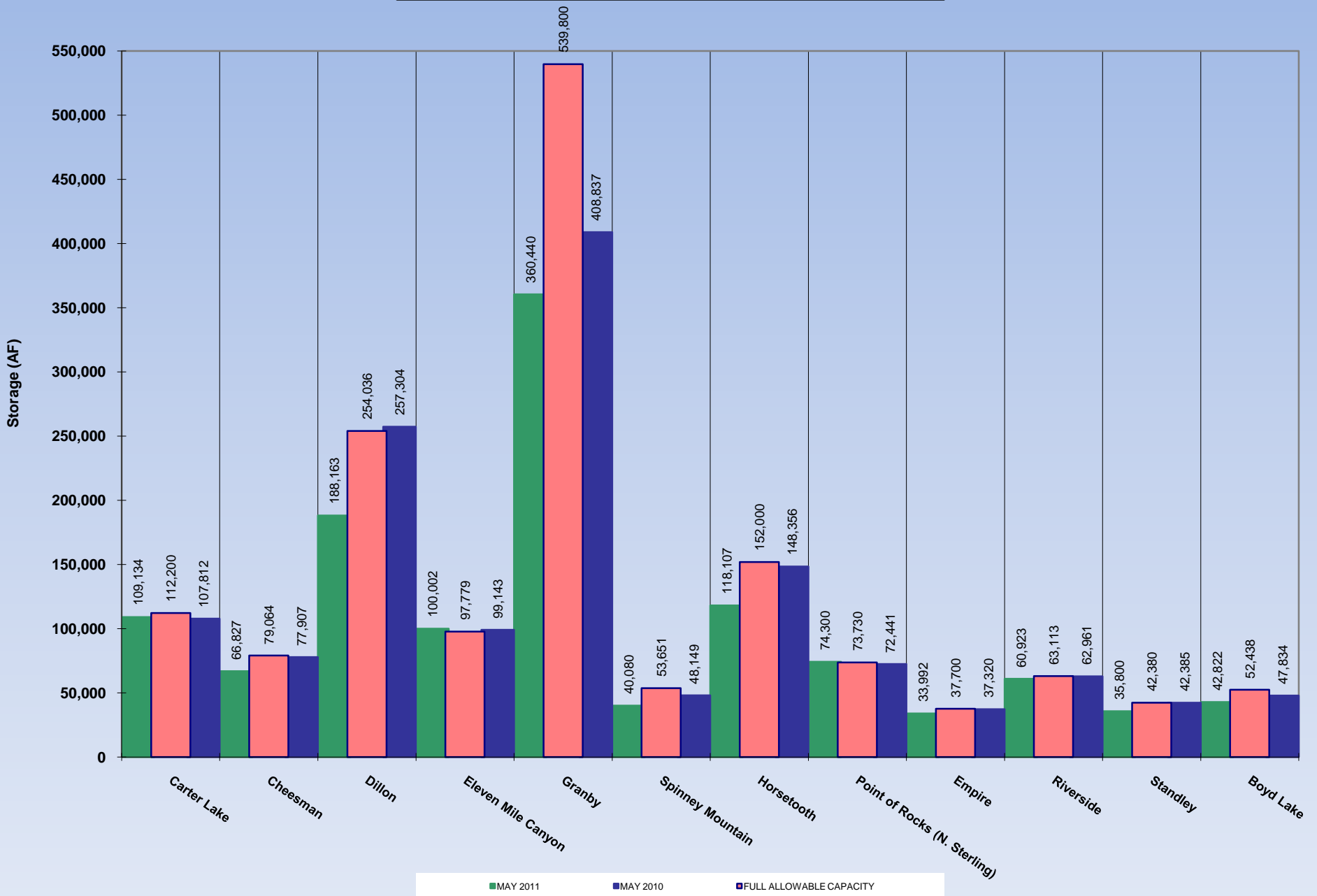


**Construction of the 'Dome' and  
outlet works under Horsetooth Dam**

# May Reservoir Change in Storage 2010 versus 2011

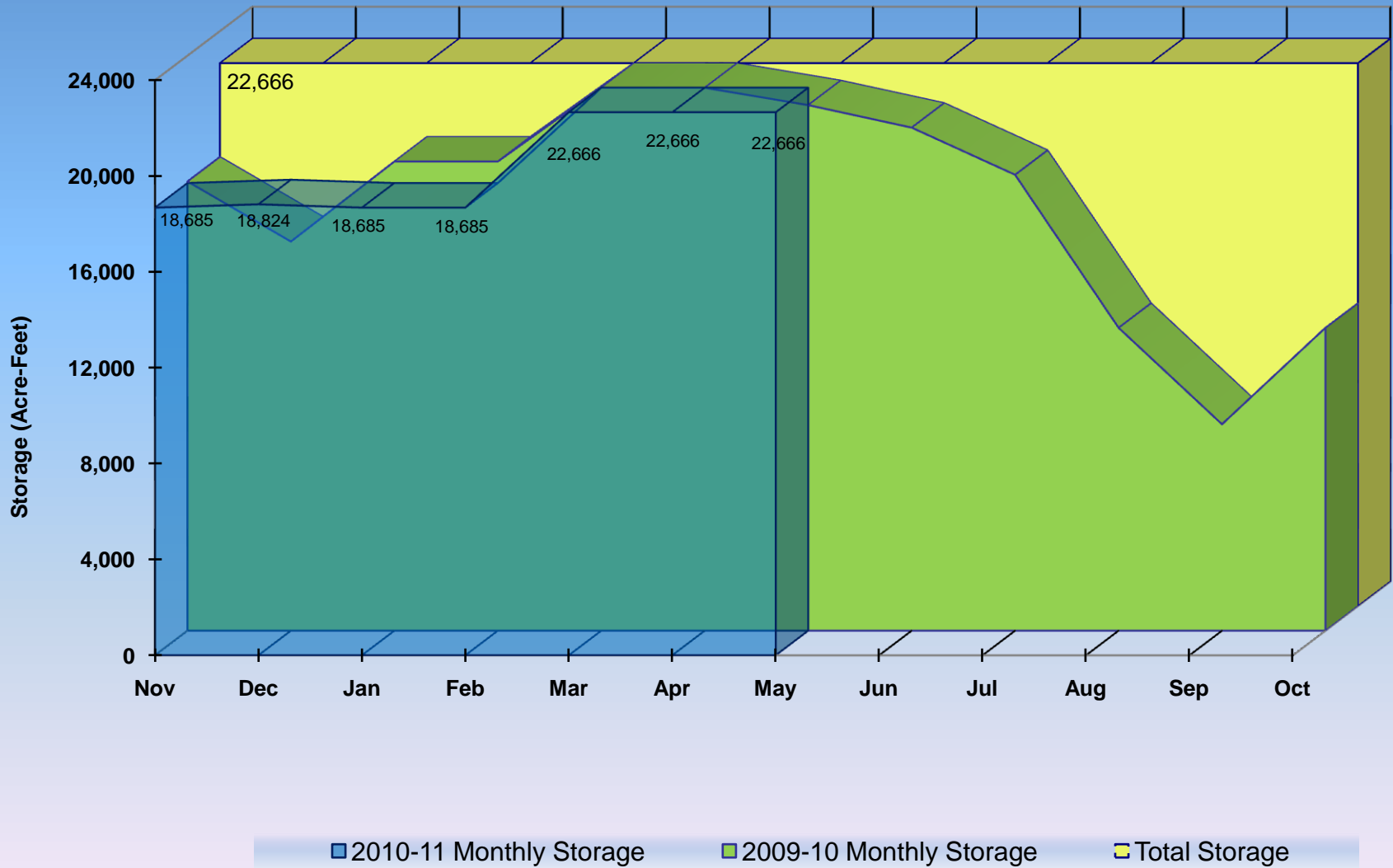


# May Reservoir Change in Storage 2010 versus 2011

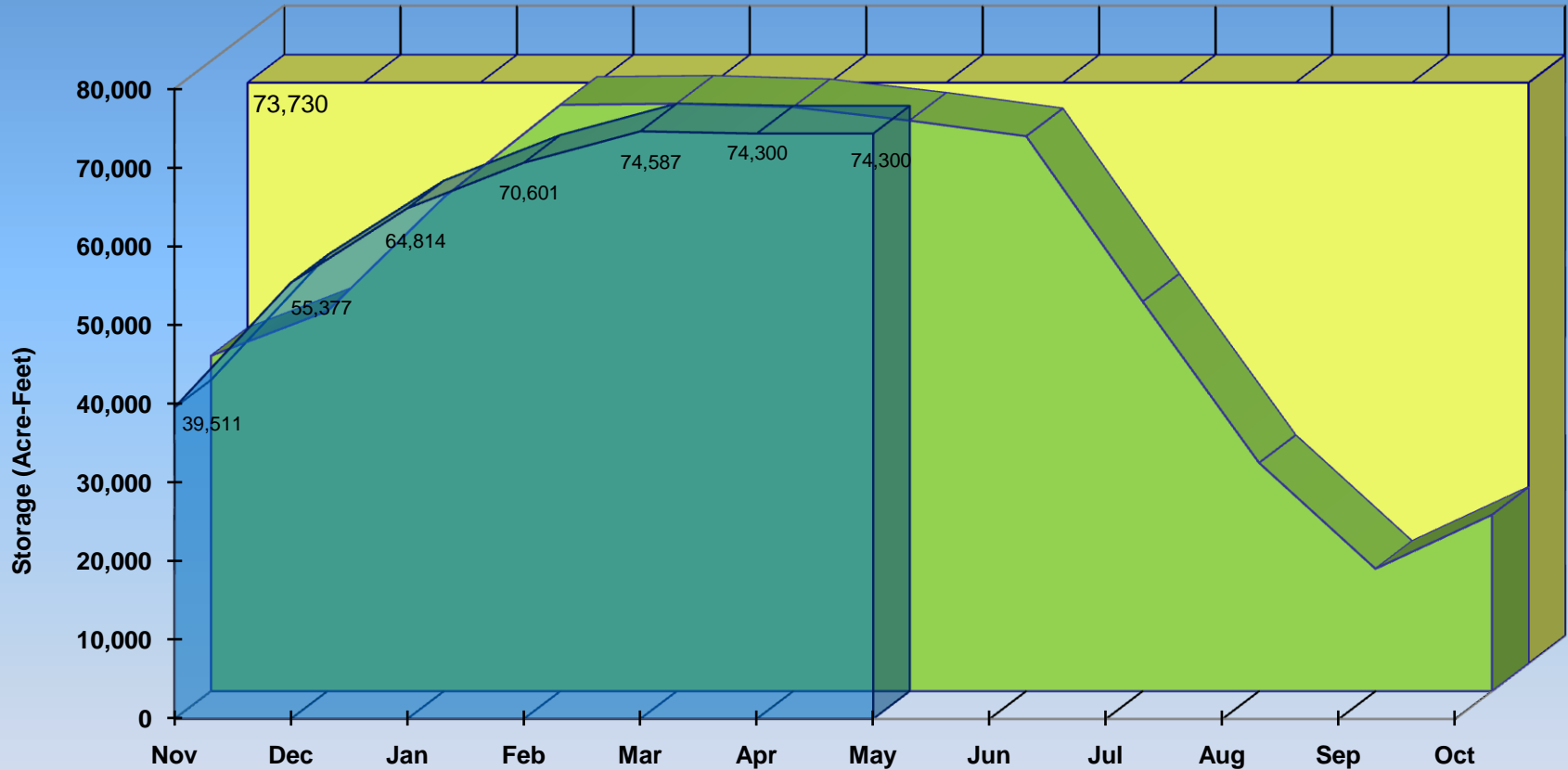




# Julesburg Reservoir (District 64 - Agricultural)

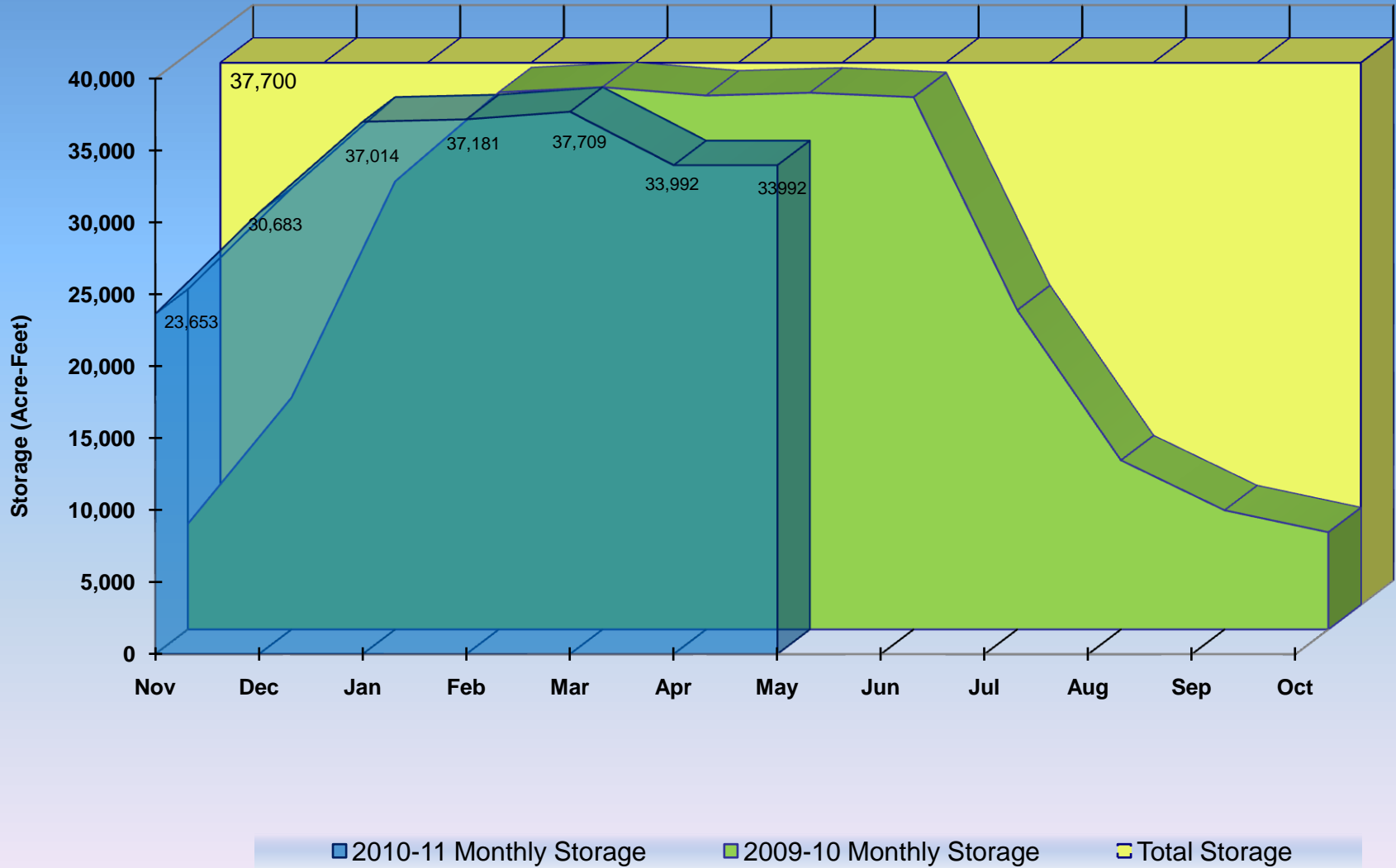


# North Sterling Reservoir (District 64- Agricultural)

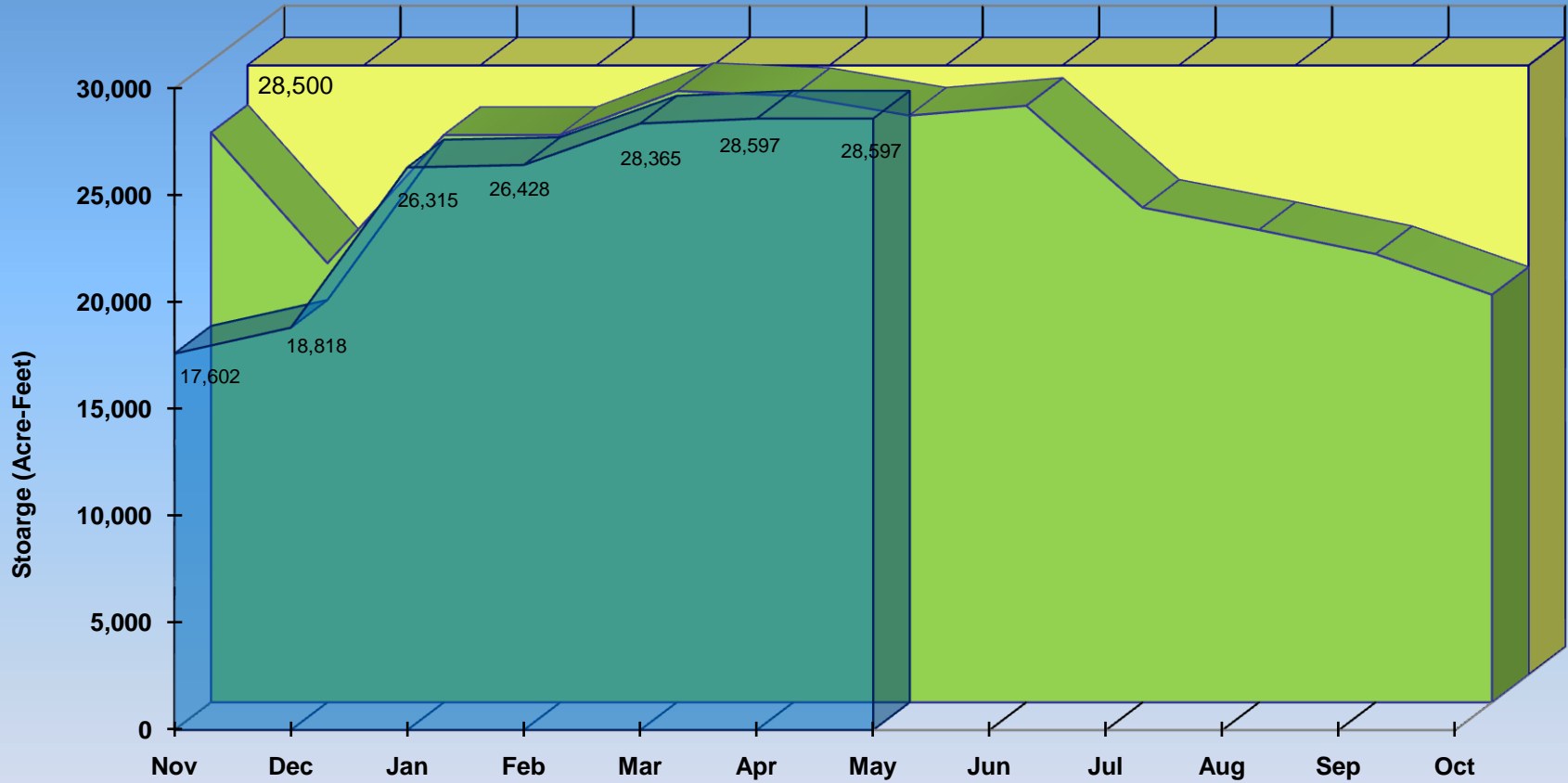


■ 2010-11 Monthly Storage     
 ■ 2009-10 Monthly Storage     
 ■ Total Storage

# Empire Reservoir (District 1- Agricultural)

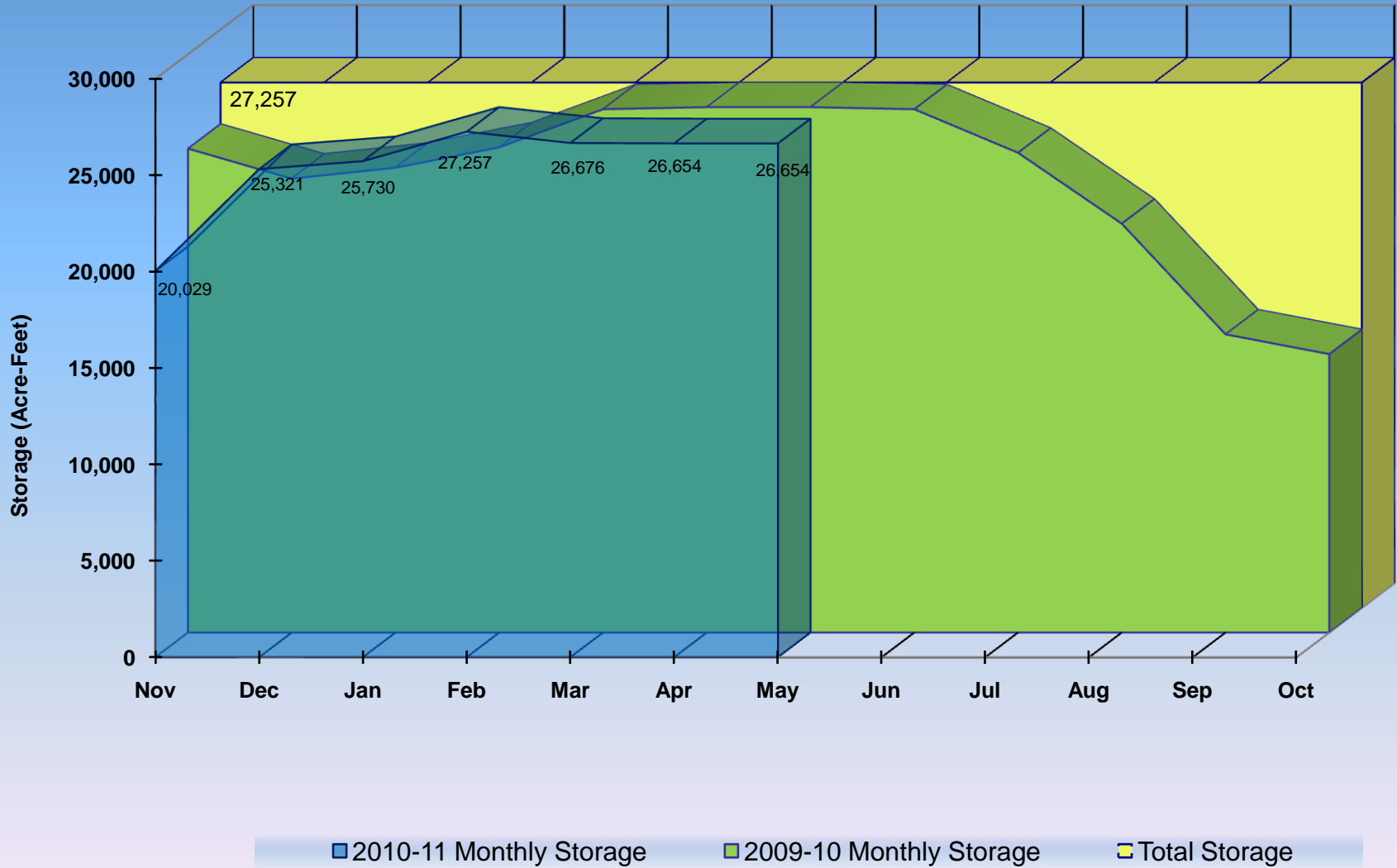


# Prewitt Reservoir (District 64- Agricultural)

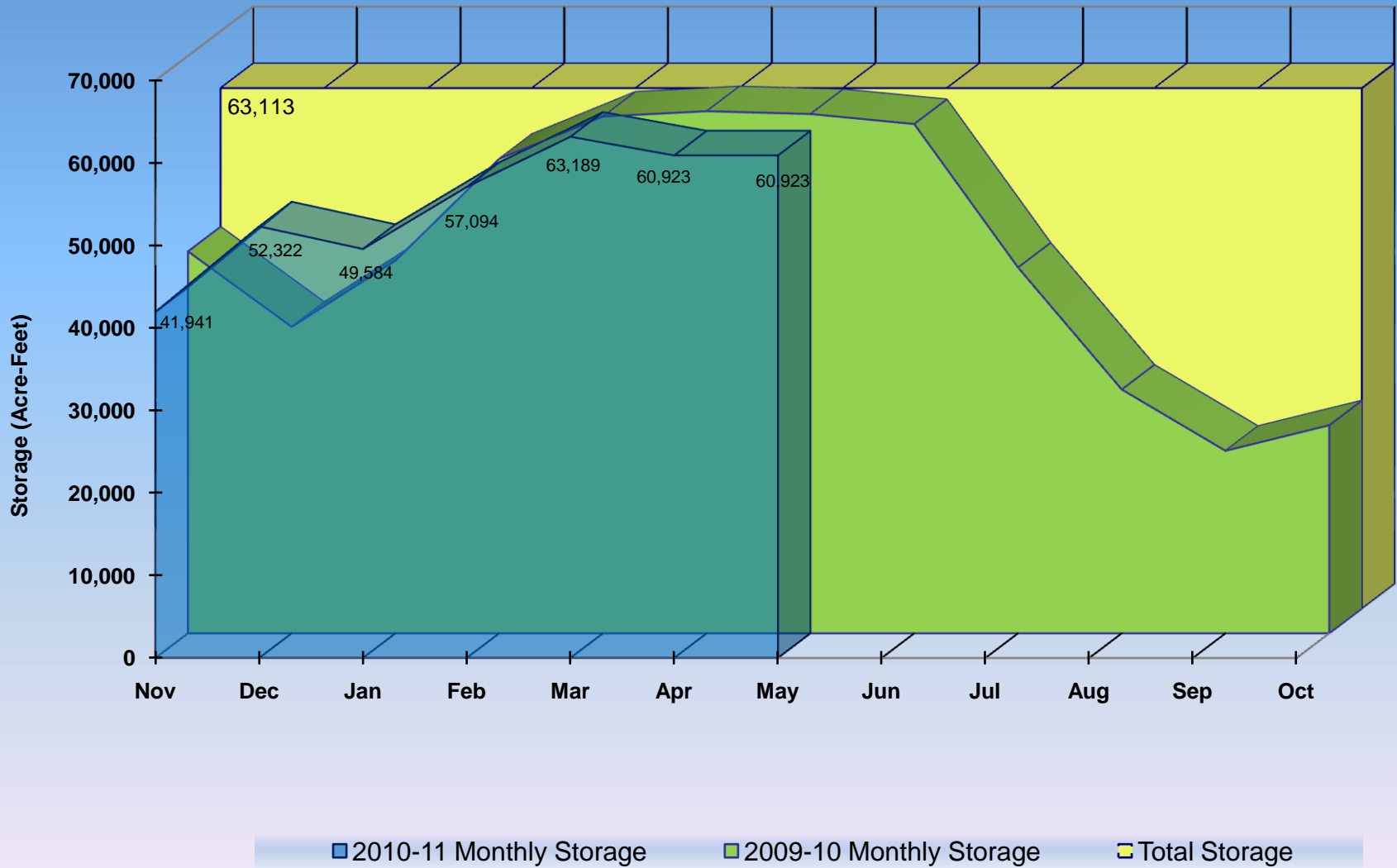


■ 2010-11 Monthly Storage    
 ■ 2009-10 Monthly Storage    
 ■ Total Storage

# Jackson Reservoir (District 1- Agricultural)

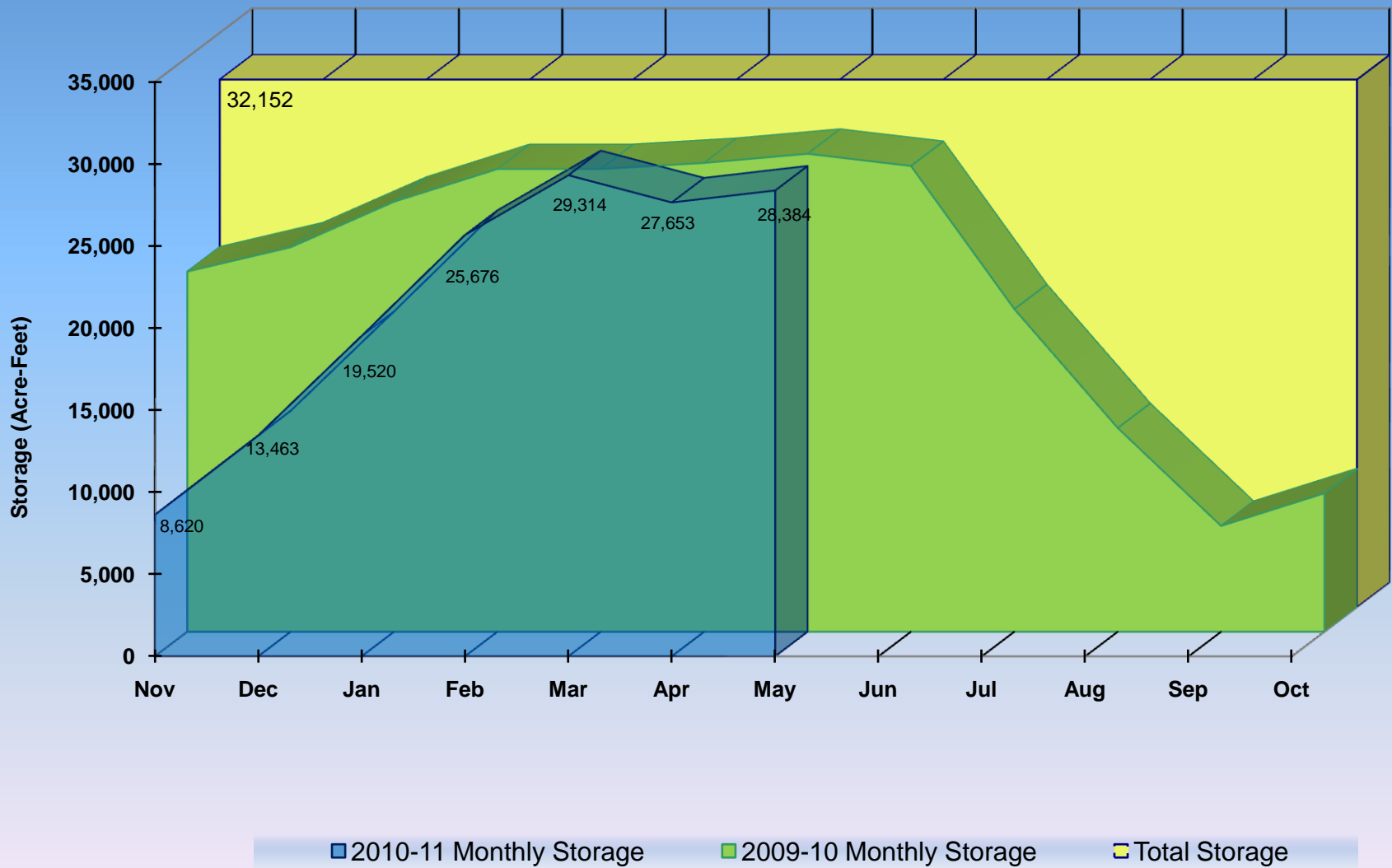


# Riverside Reservoir (District 1 - Agricultural)



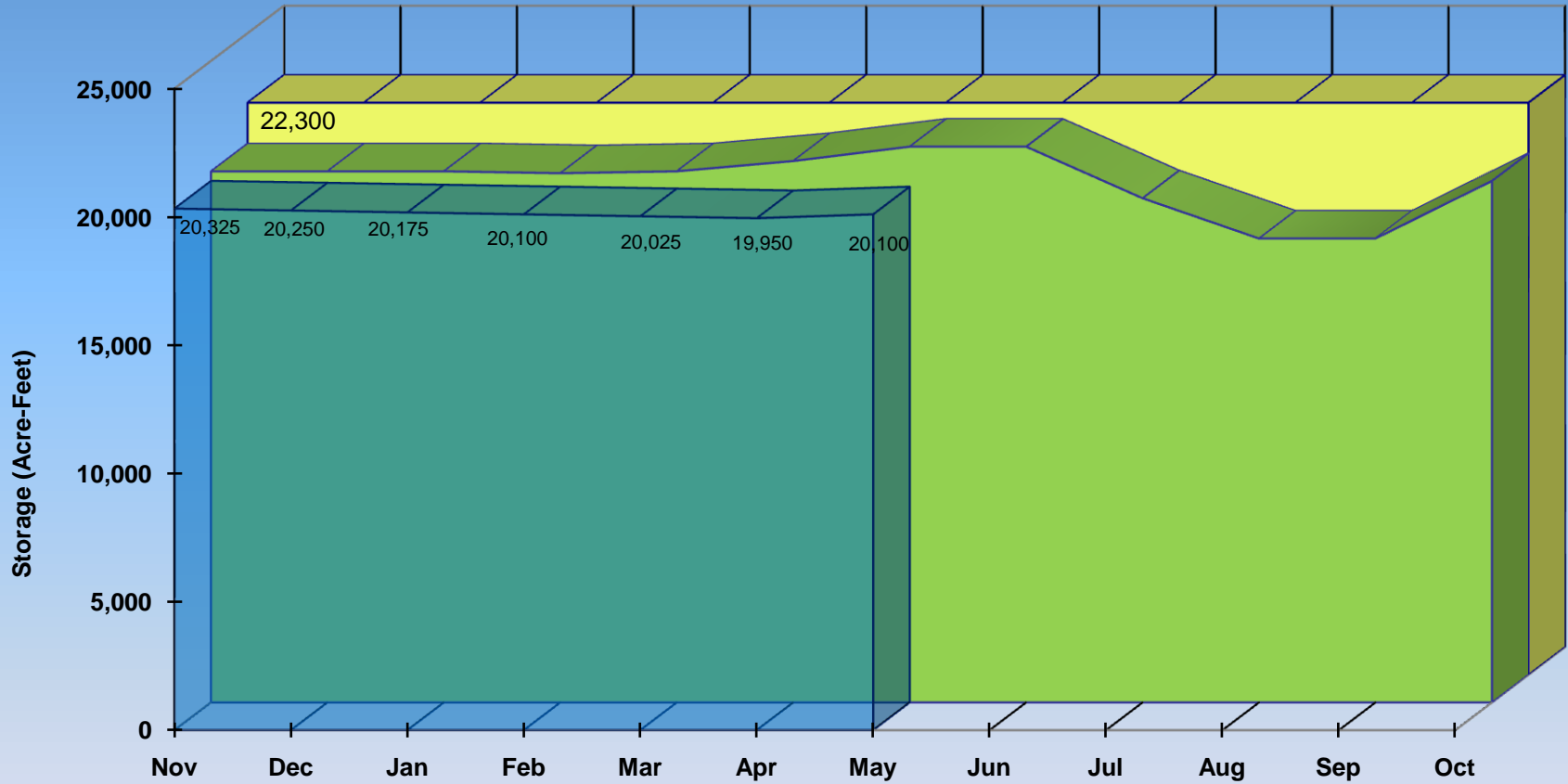
# Barr Lake

(District 2 - Agricultural)



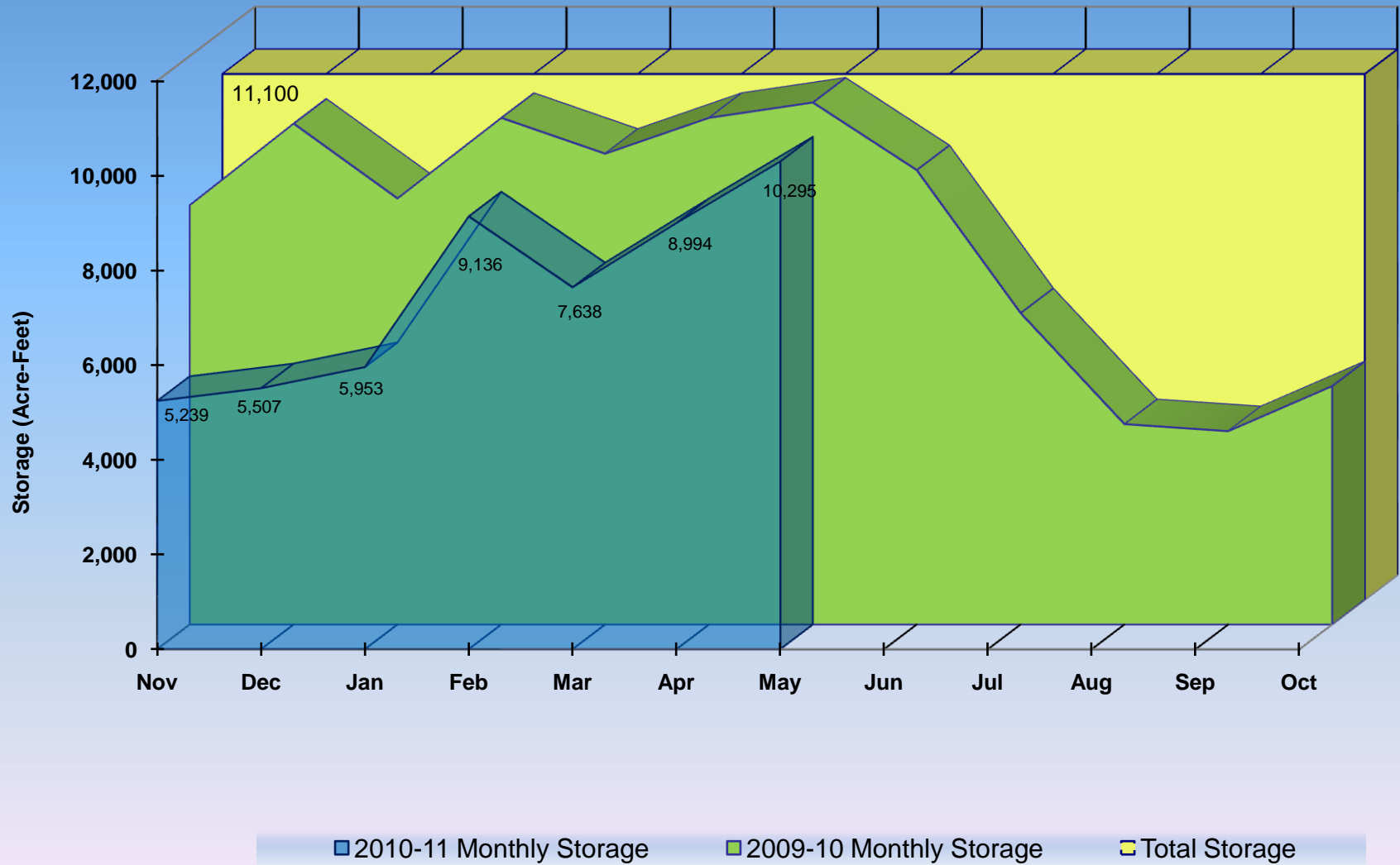


# Cobb Lake (District 3, Poudre River - Agricultural)

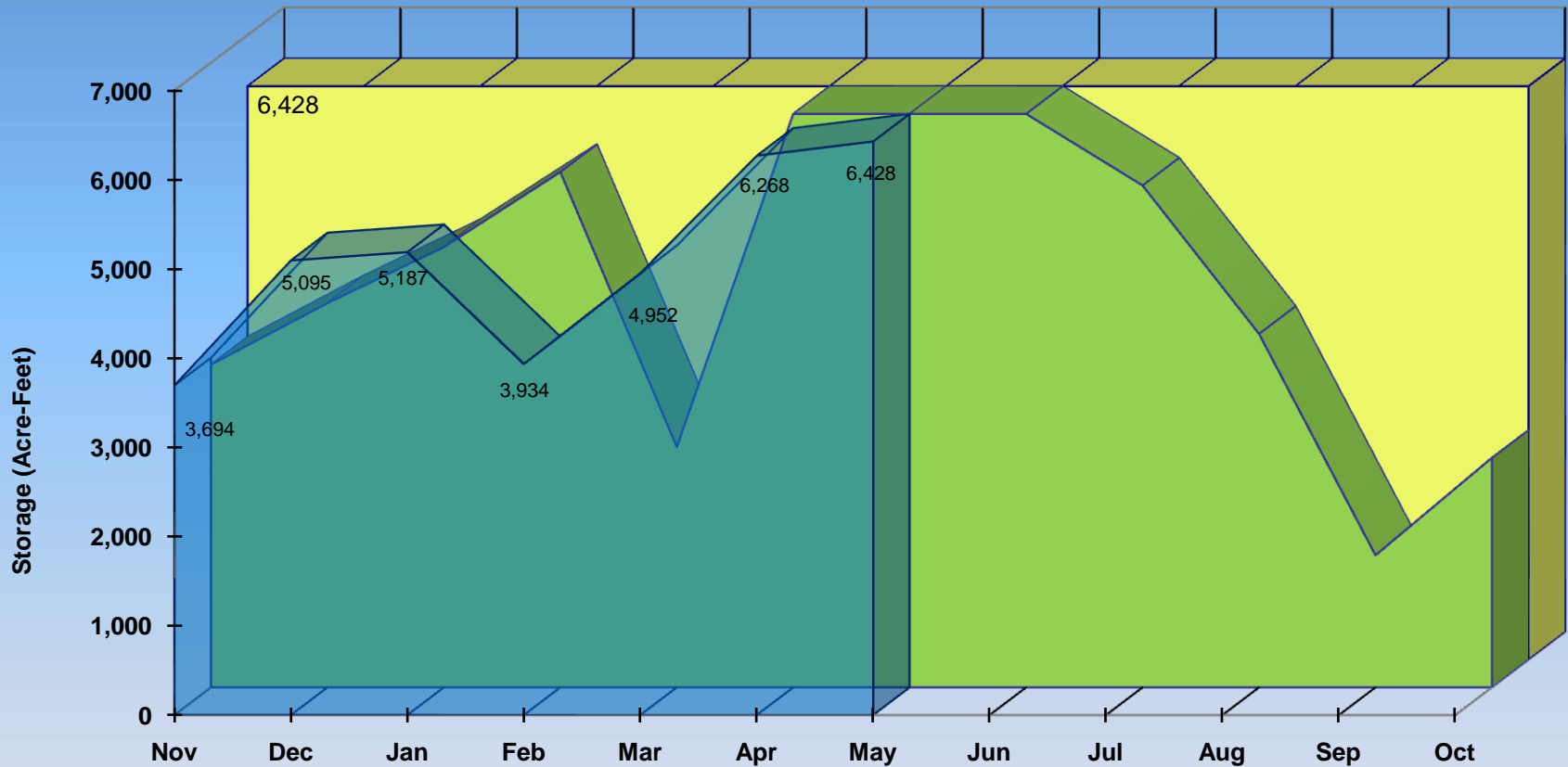


■ 2010-11 Monthly Storage     
 ■ 2009-10 Monthly Storage     
 ■ Total Storage

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



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

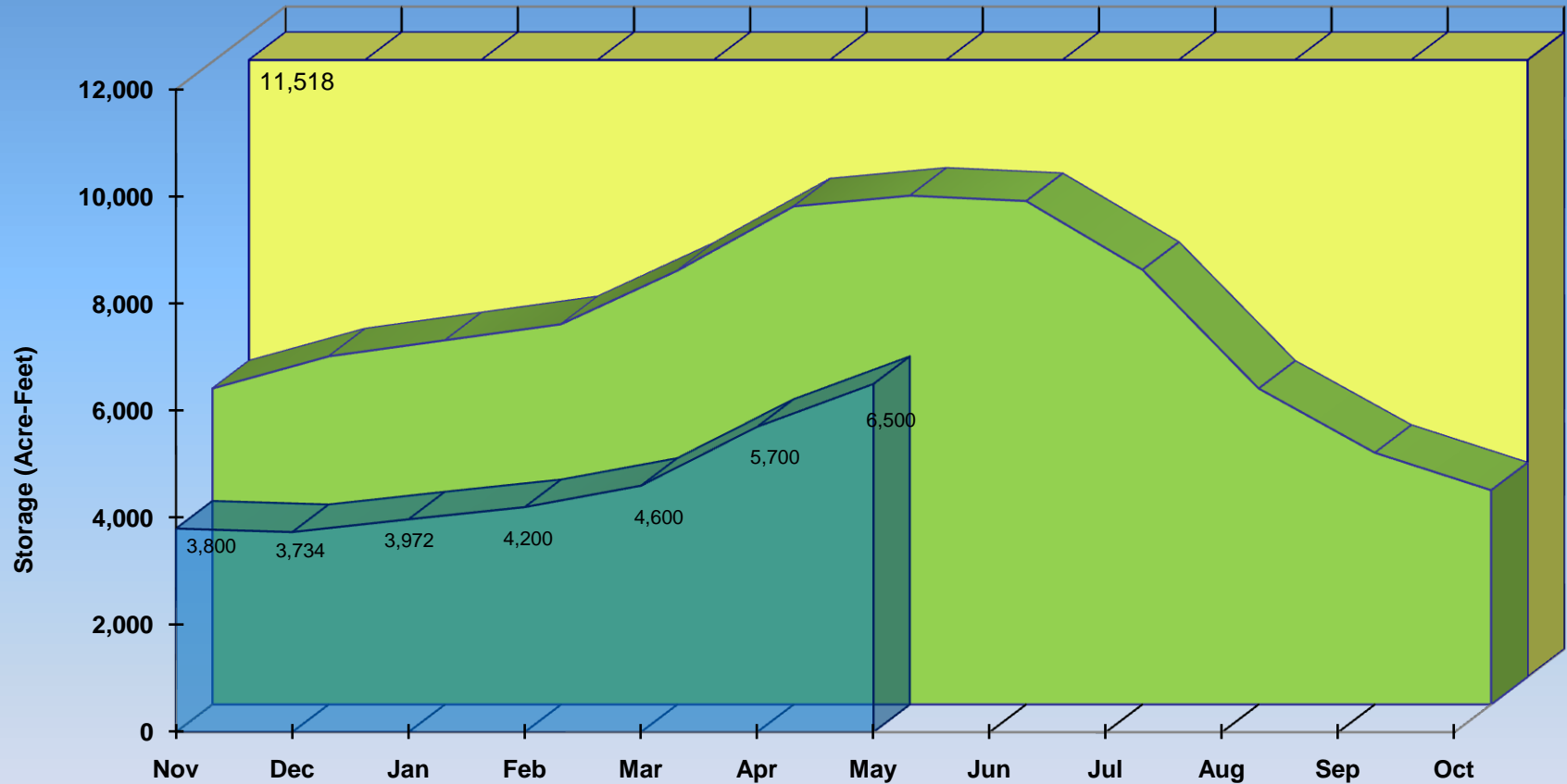


2010-11 Monthly Storage

2009-10 Monthly Storage

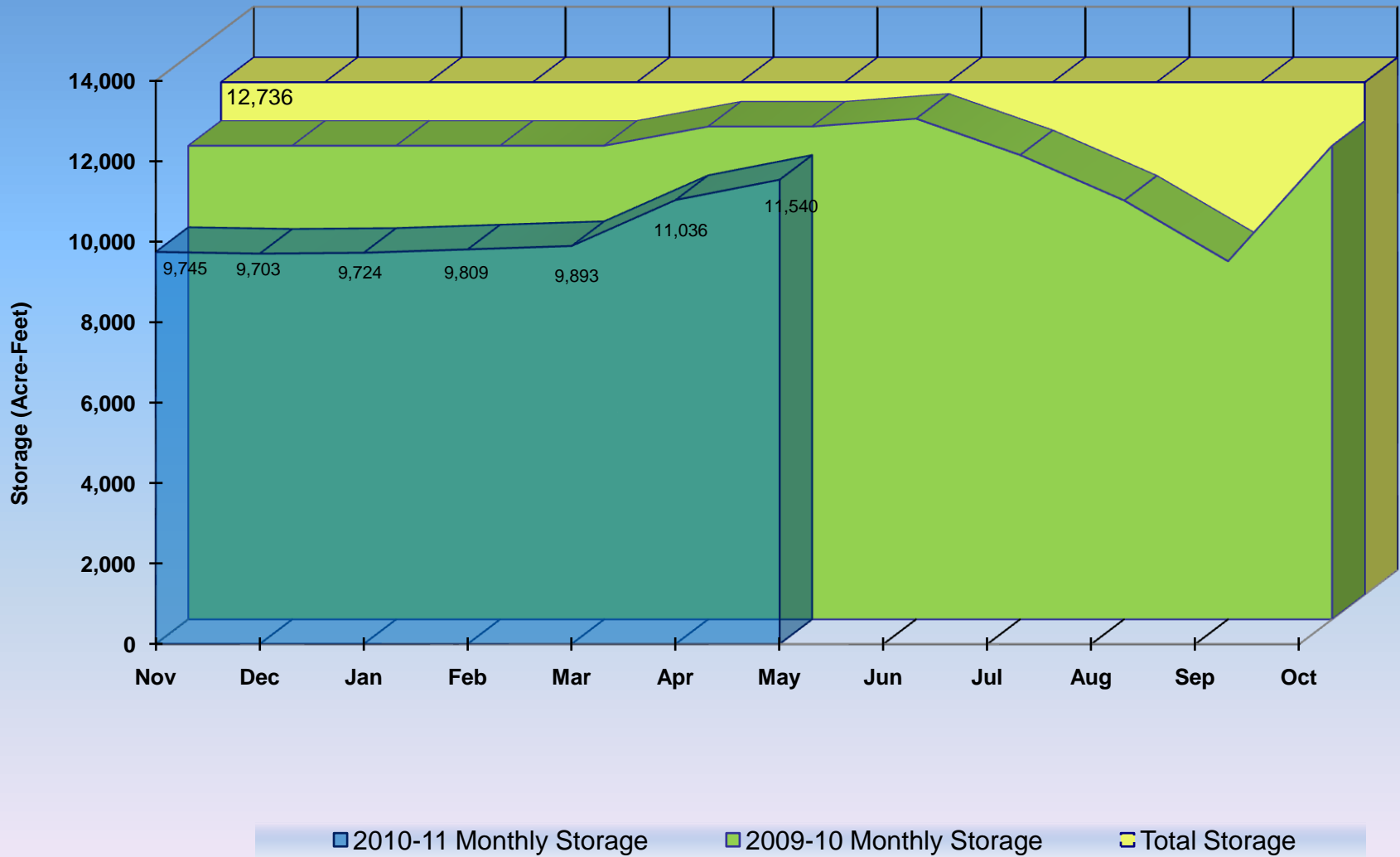
Total Storage

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

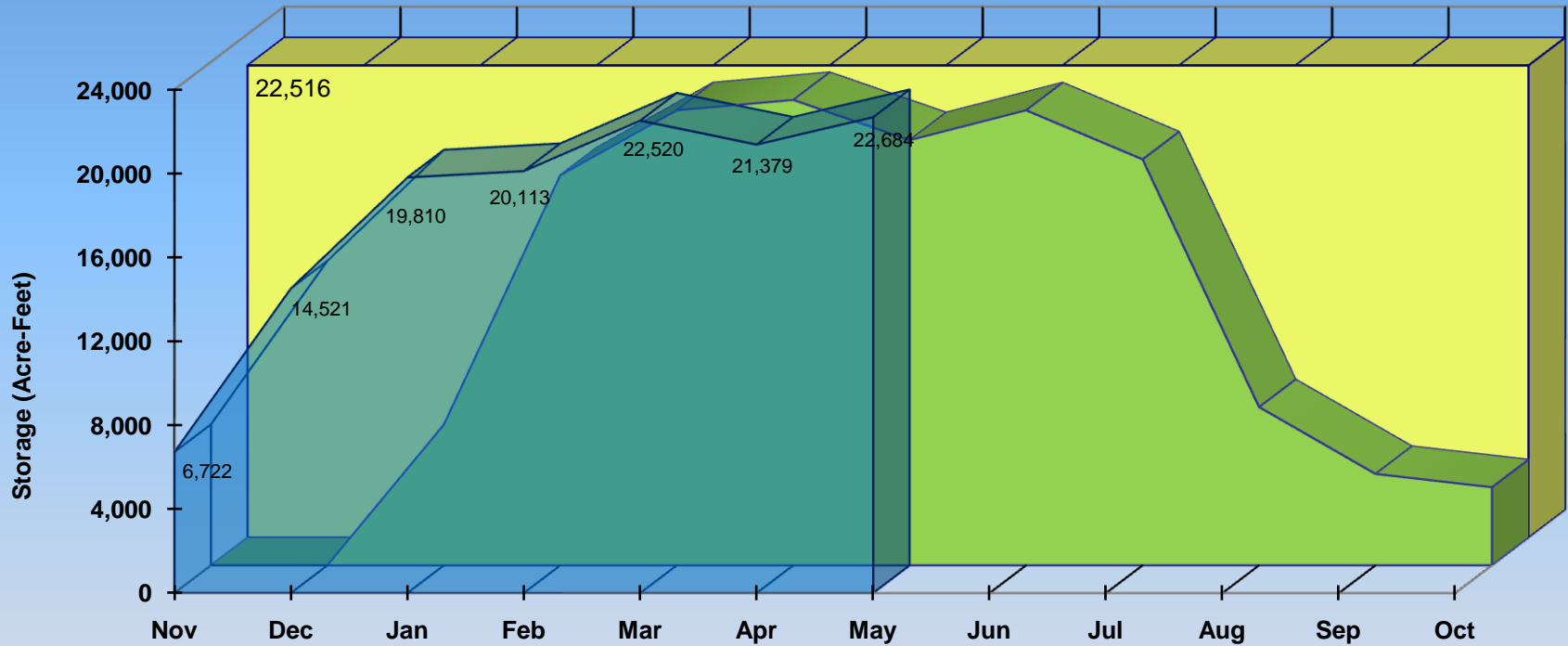


■ 2010-11 Monthly Storage    
 ■ 2009-10 Monthly Storage    
 ■ Total Storage

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



# Milton Reservoir (District 2 - Agricultural)

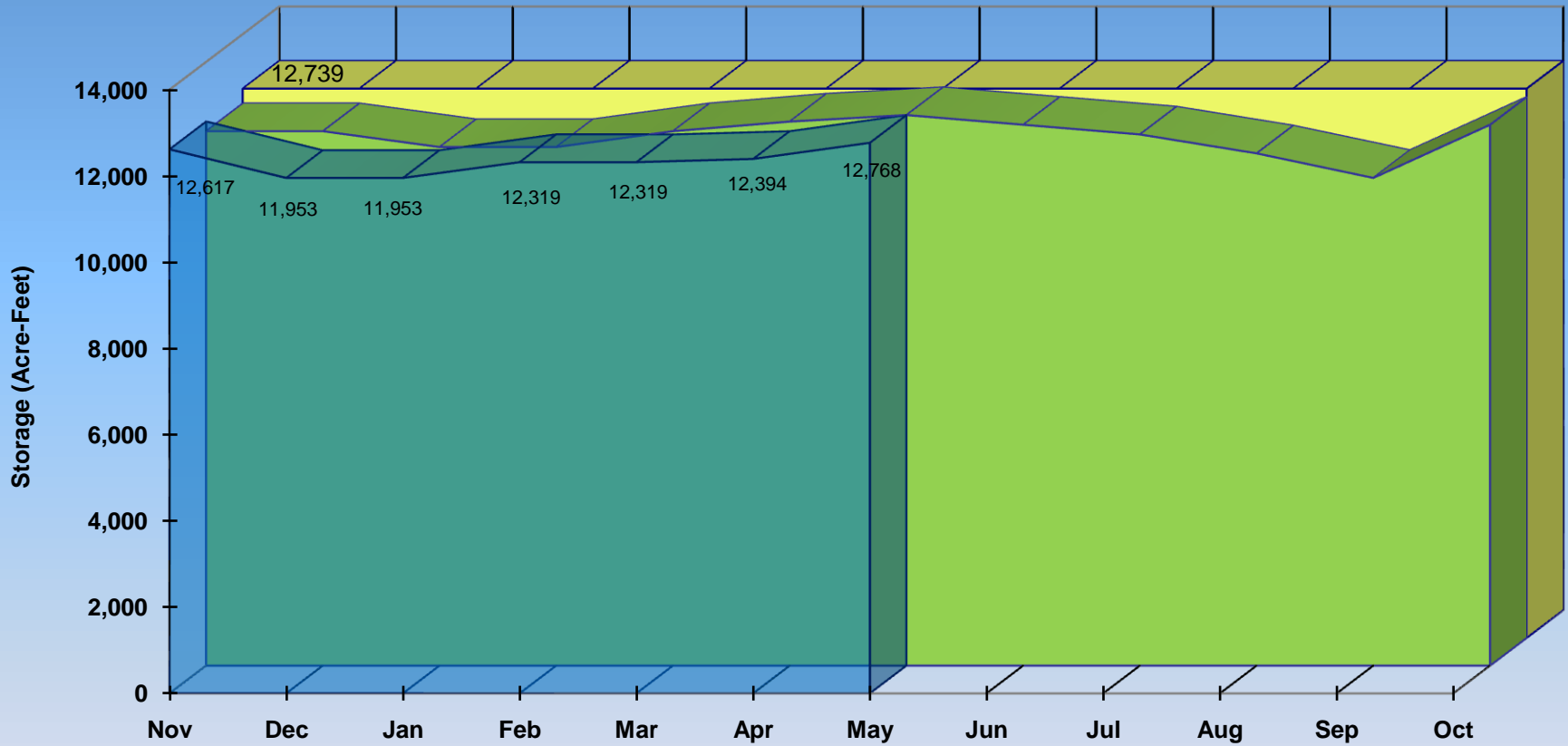


■ 2010-11 Monthly Storage

■ 2009-10 Monthly Storage

■ Total Storage

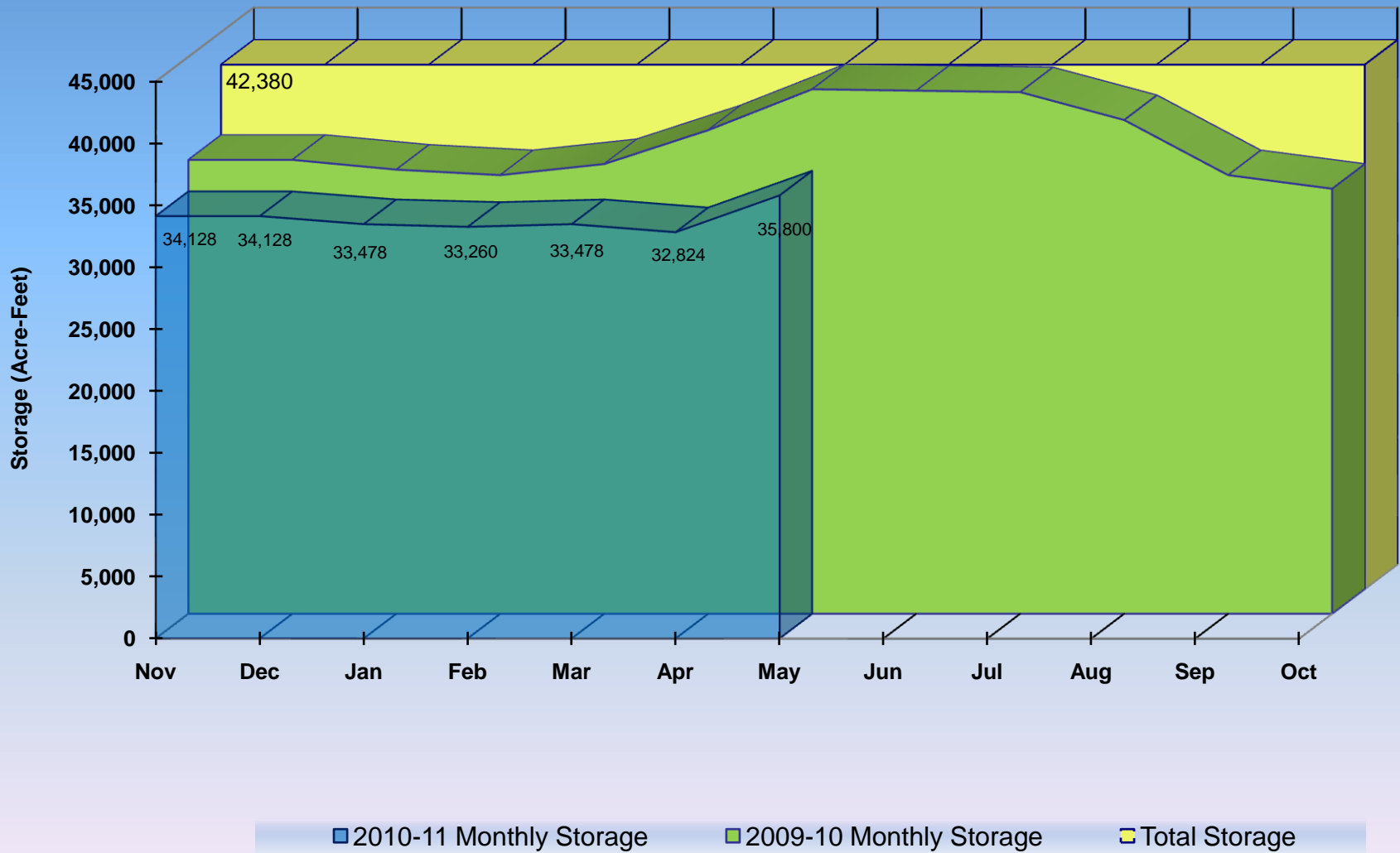
# Union Reservoir (District 5, St. Vrain Creek - Agricultural)



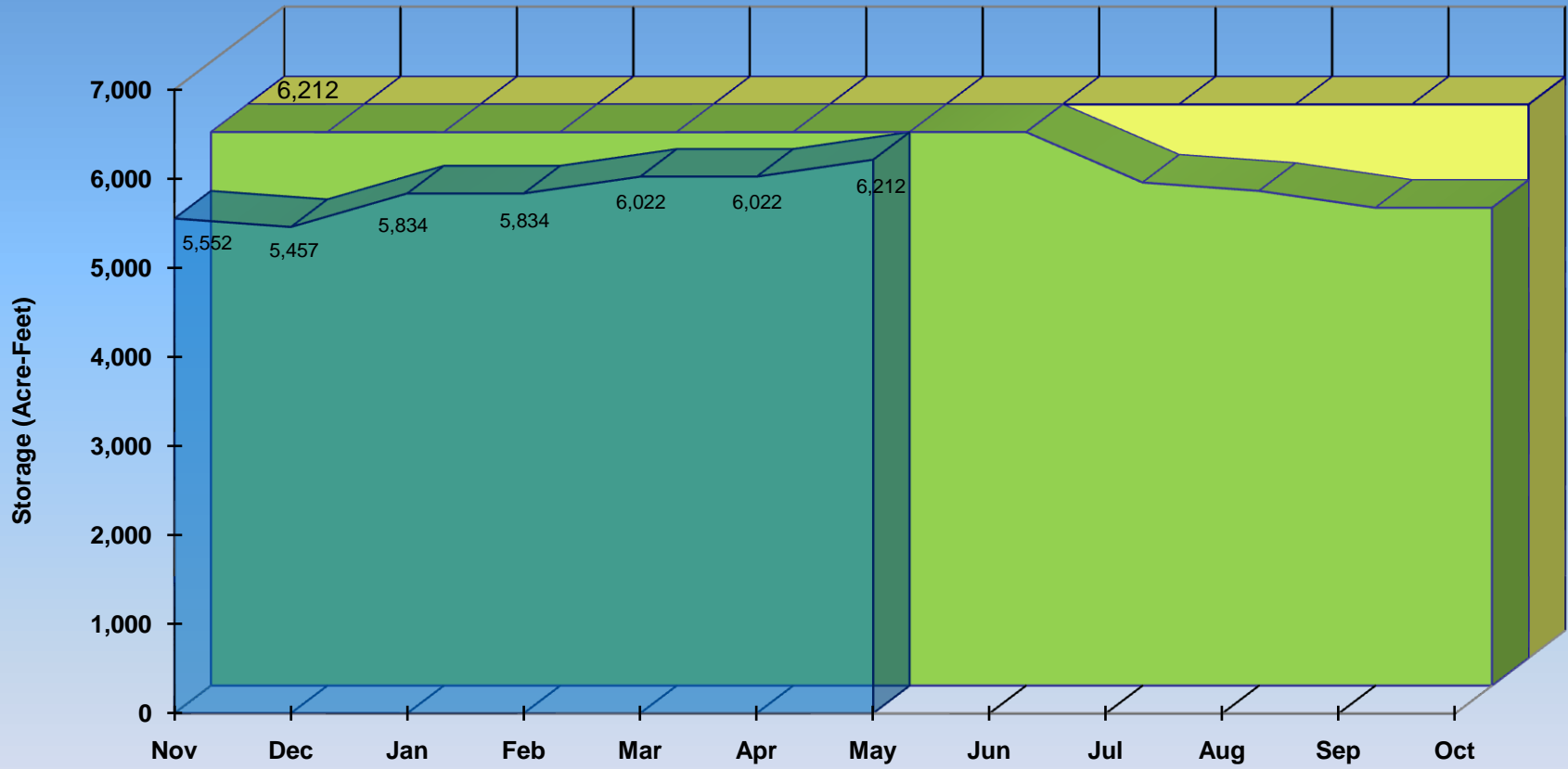
■ 2010-11 Monthly Storage     
 ■ 2009-10 Monthly Storage     
 ■ Total Storage



# Standley Lake (Agricultural)

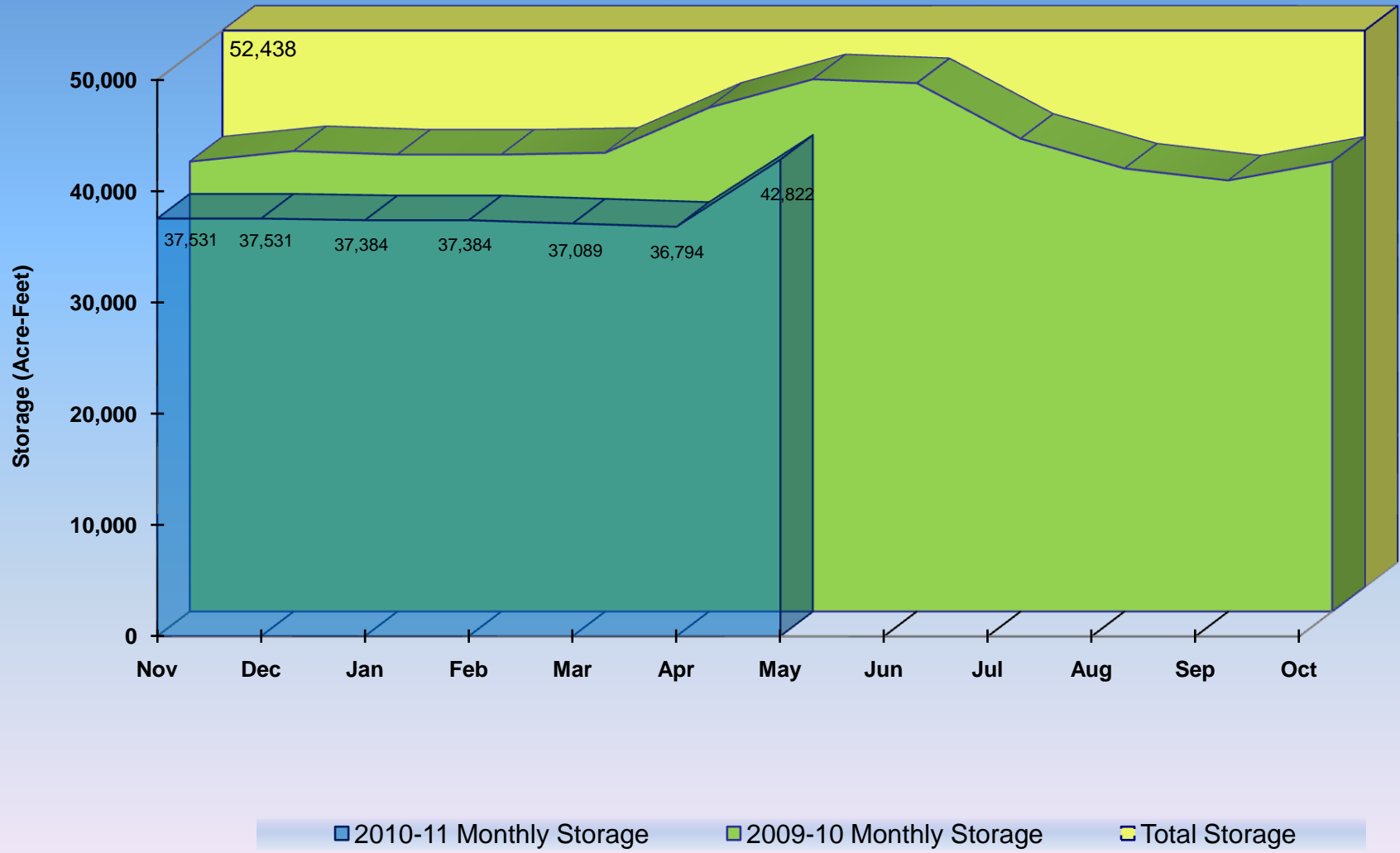


# Lower Latham Reservoir (District 2 - Agricultural)

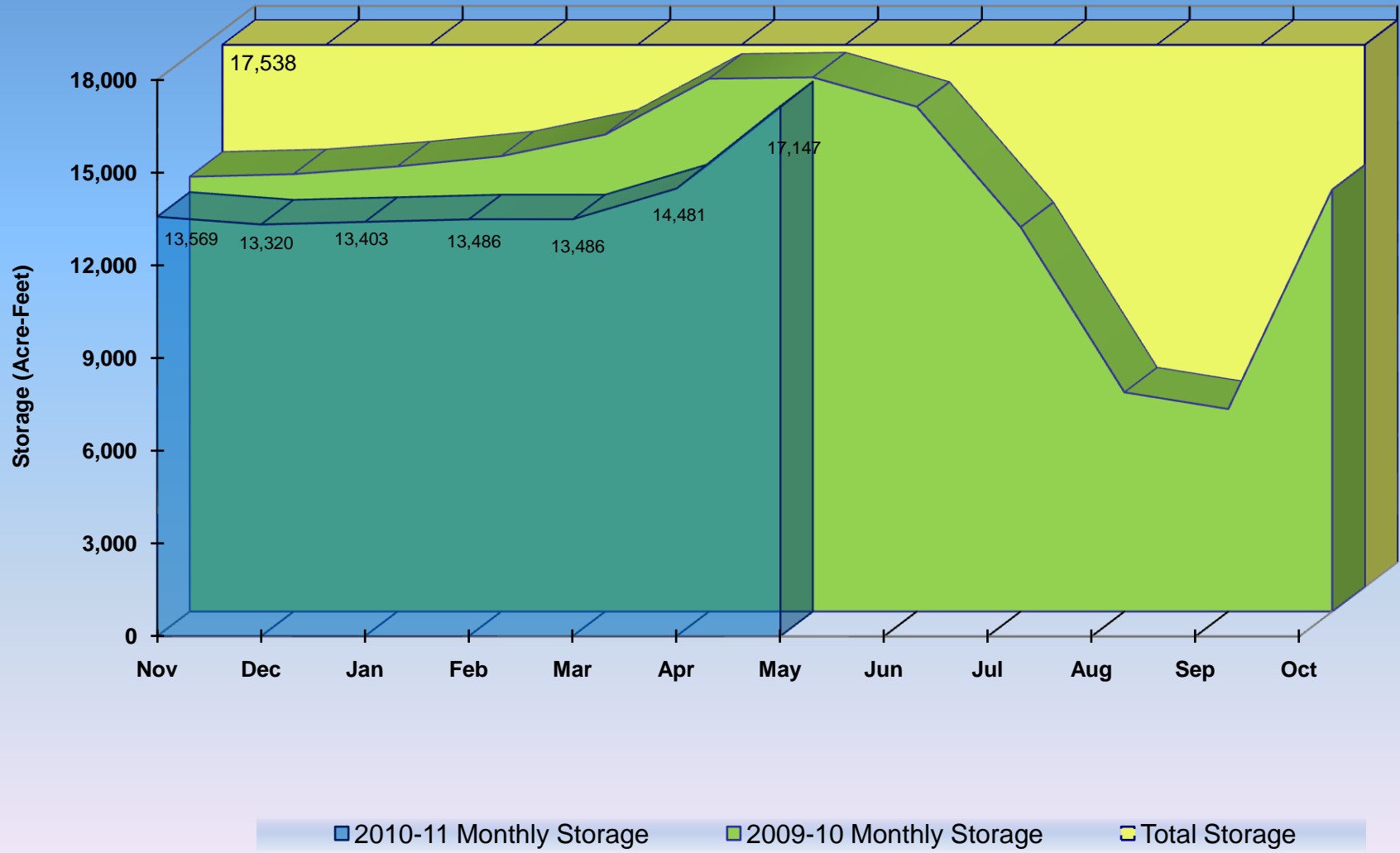


■ 2010-11 Monthly Storage     
 ■ 2009-10 Monthly Storage     
 ■ Total Storage

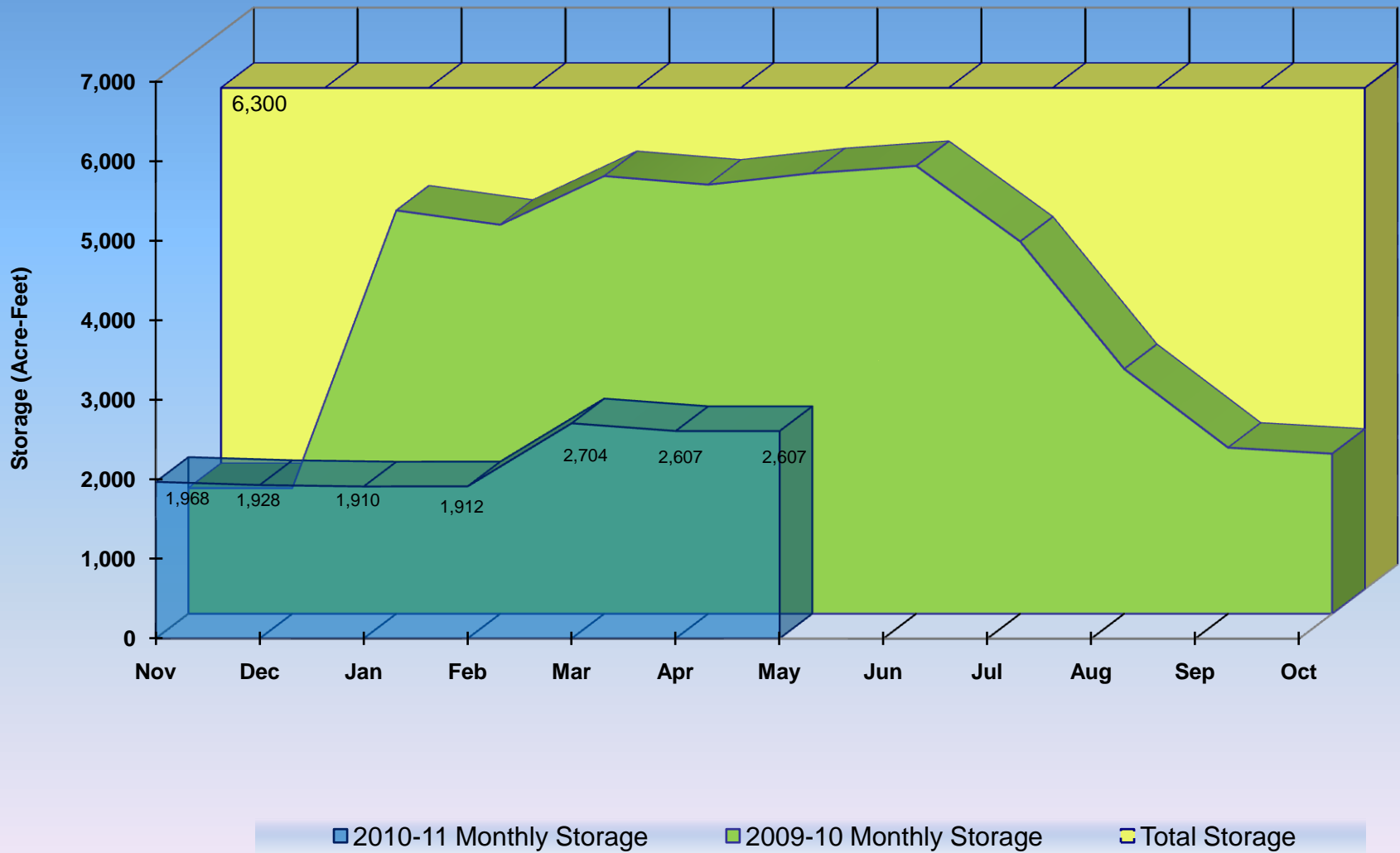
# Boyd Lake (District 4, Big Thompson River - Agricultural)



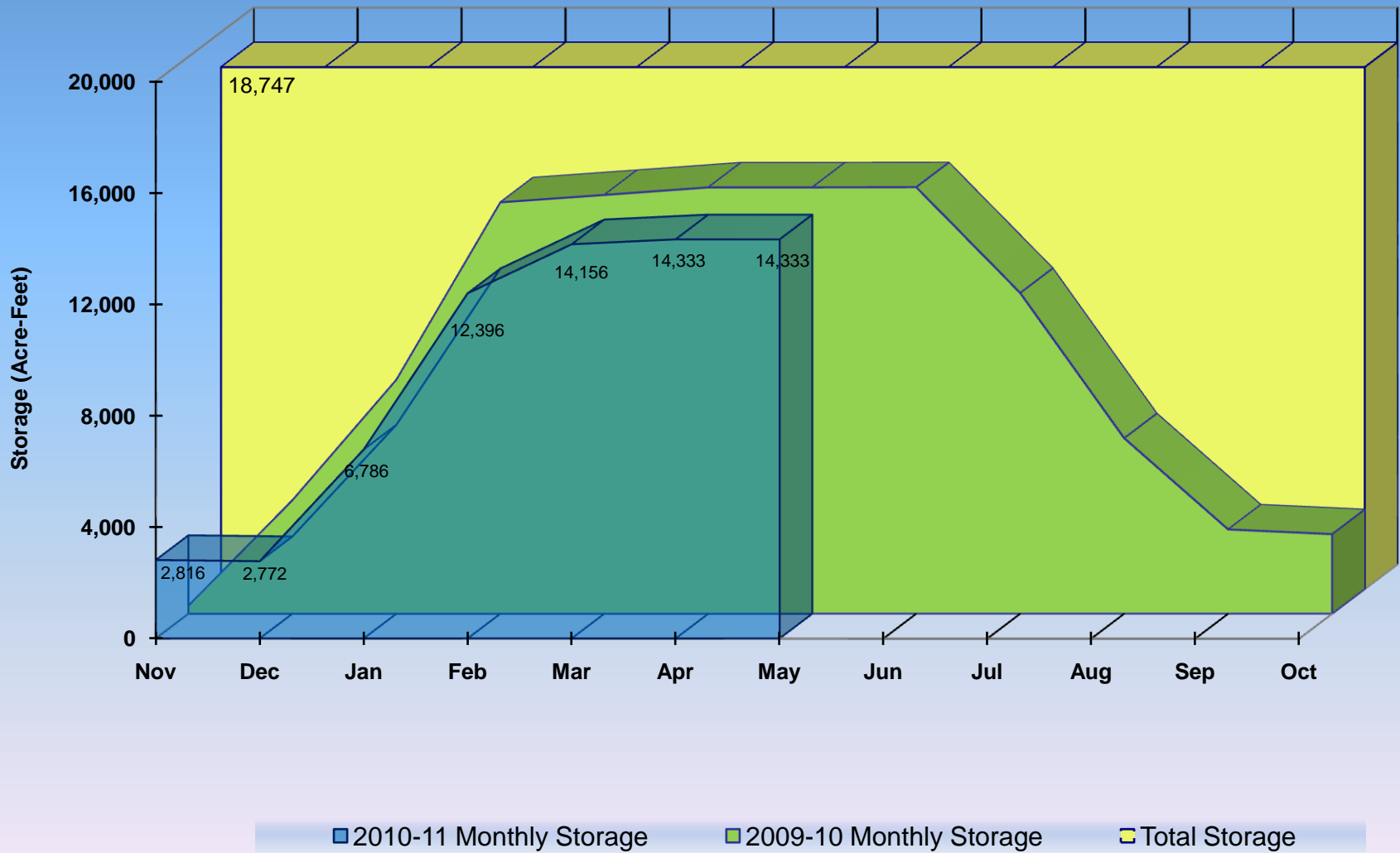
# Windsor Reservoir (District 3, Poudre River - Agricultural)



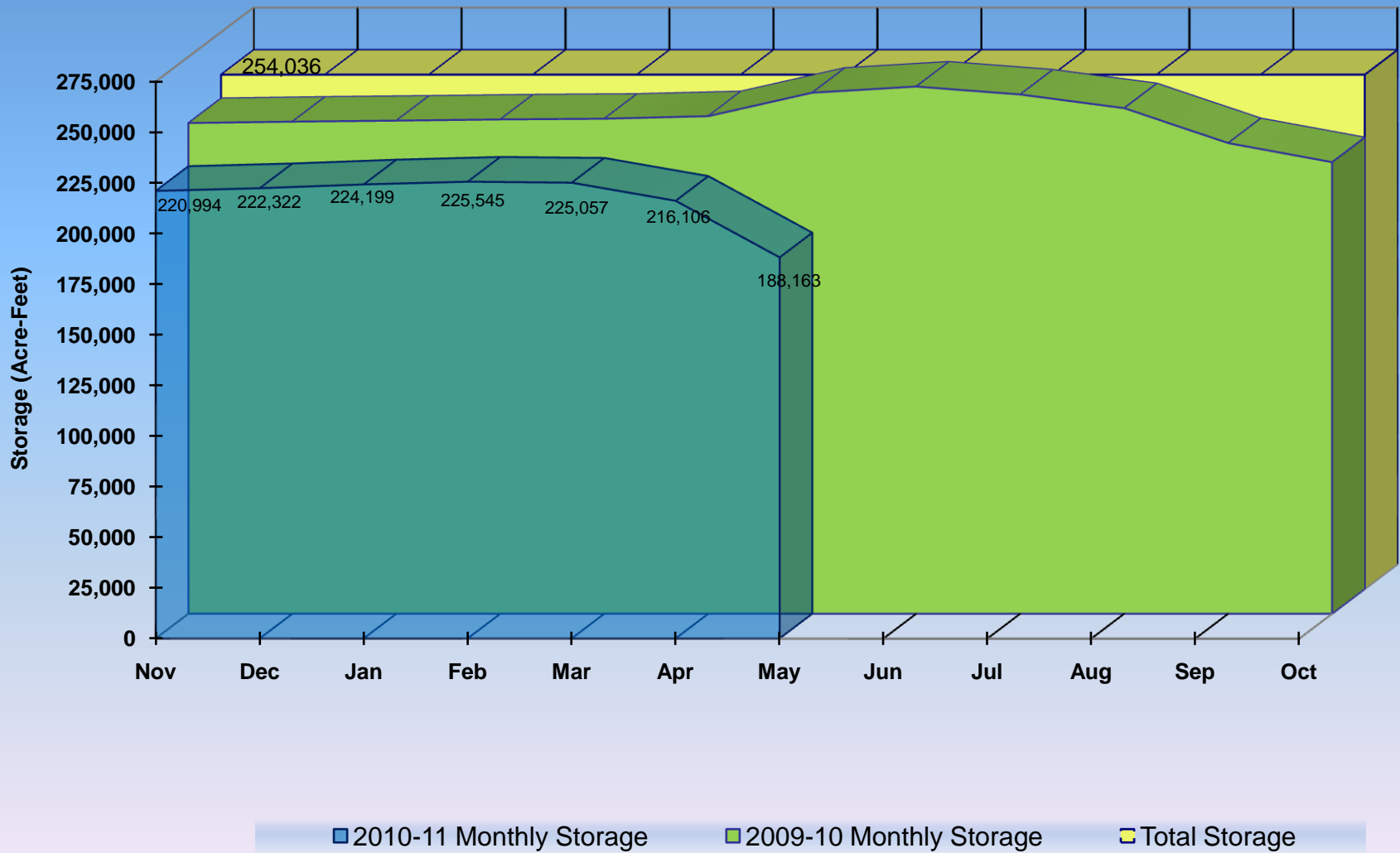
# Prospect Reservoir (District 1- Agricultural)



# Horse Creek Reservoir (District 1 - Agricultural)

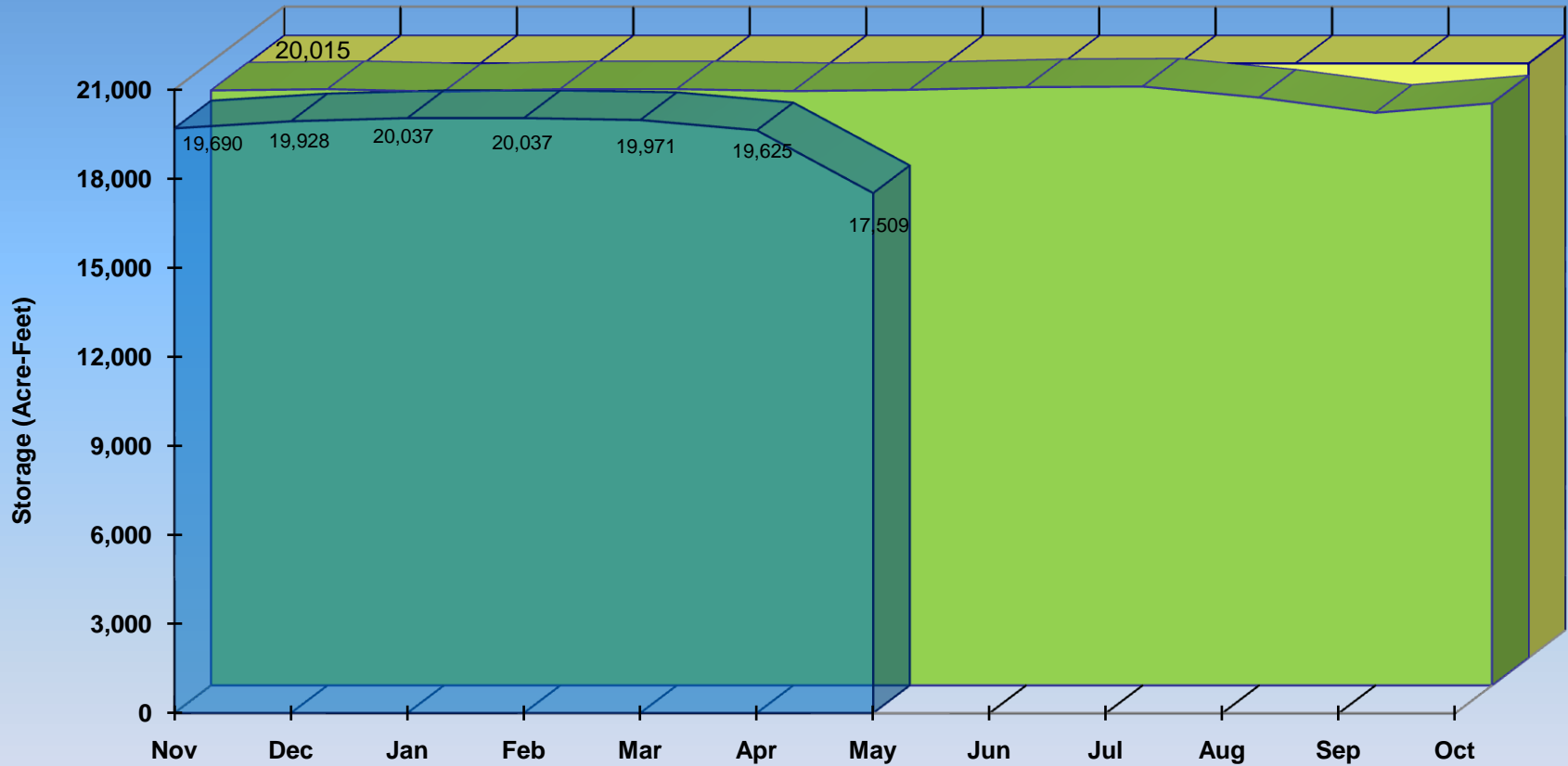


# Dillon Reservoir (Municipal)



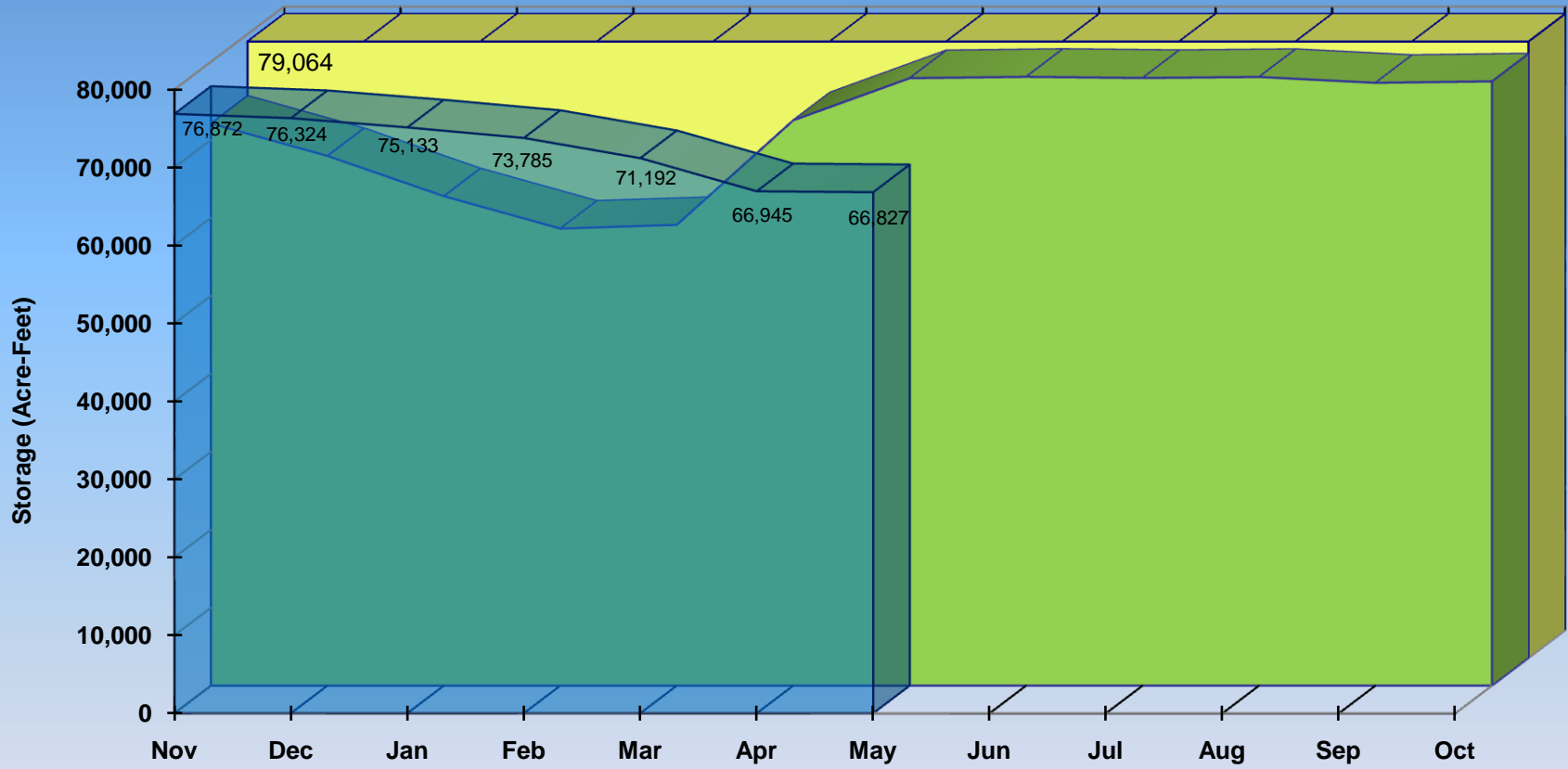


# Antero Reservoir (District 23 - Municipal)



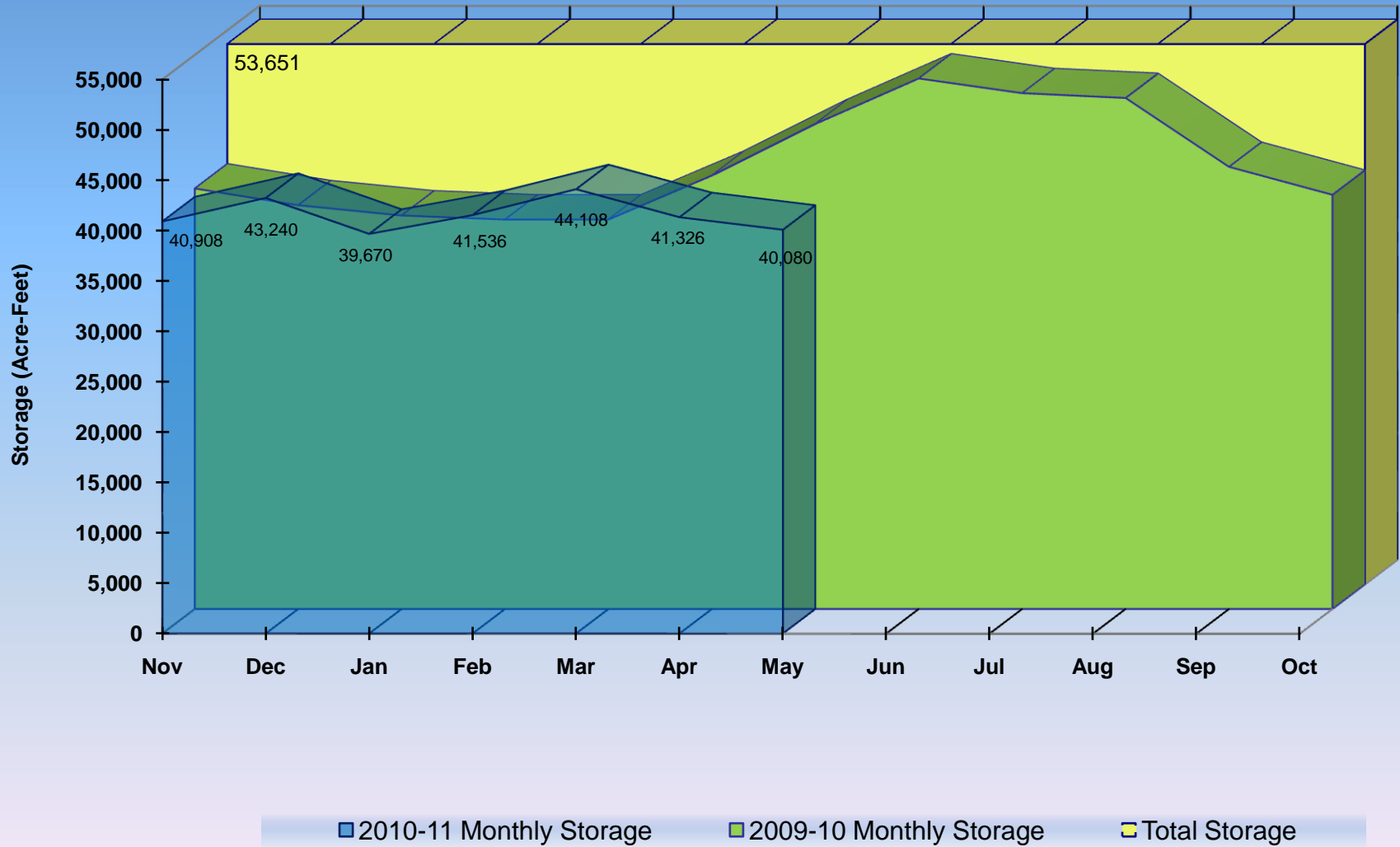
■ 2010-11 Monthly Storage     
 ■ 2009-10 Monthly Storage     
 ■ Total Storage

# Cheesman Reservoir (District 80 - Municipal)

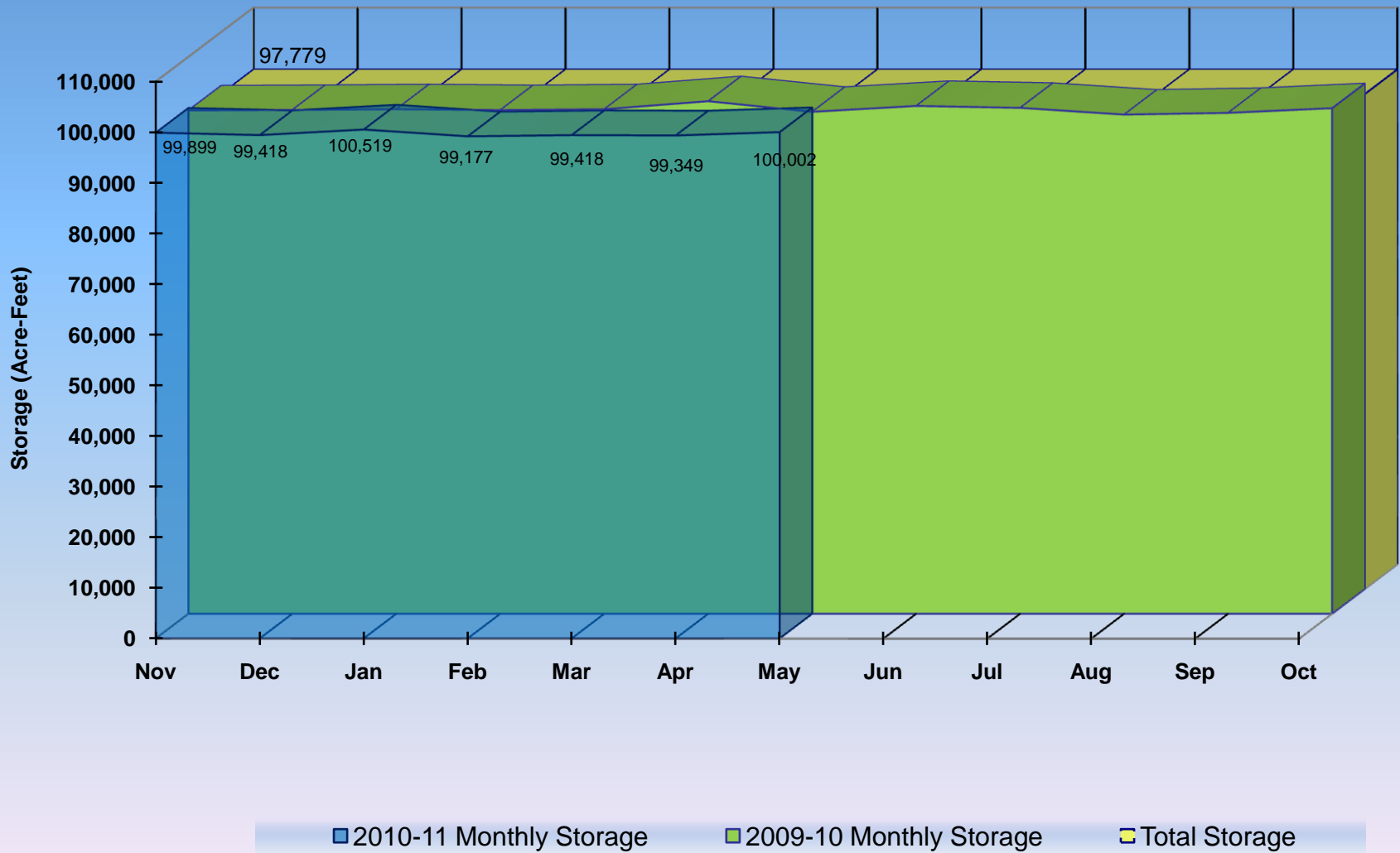


■ 2010-11 Monthly Storage     
 ■ 2009-10 Monthly Storage     
 ■ Total Storage

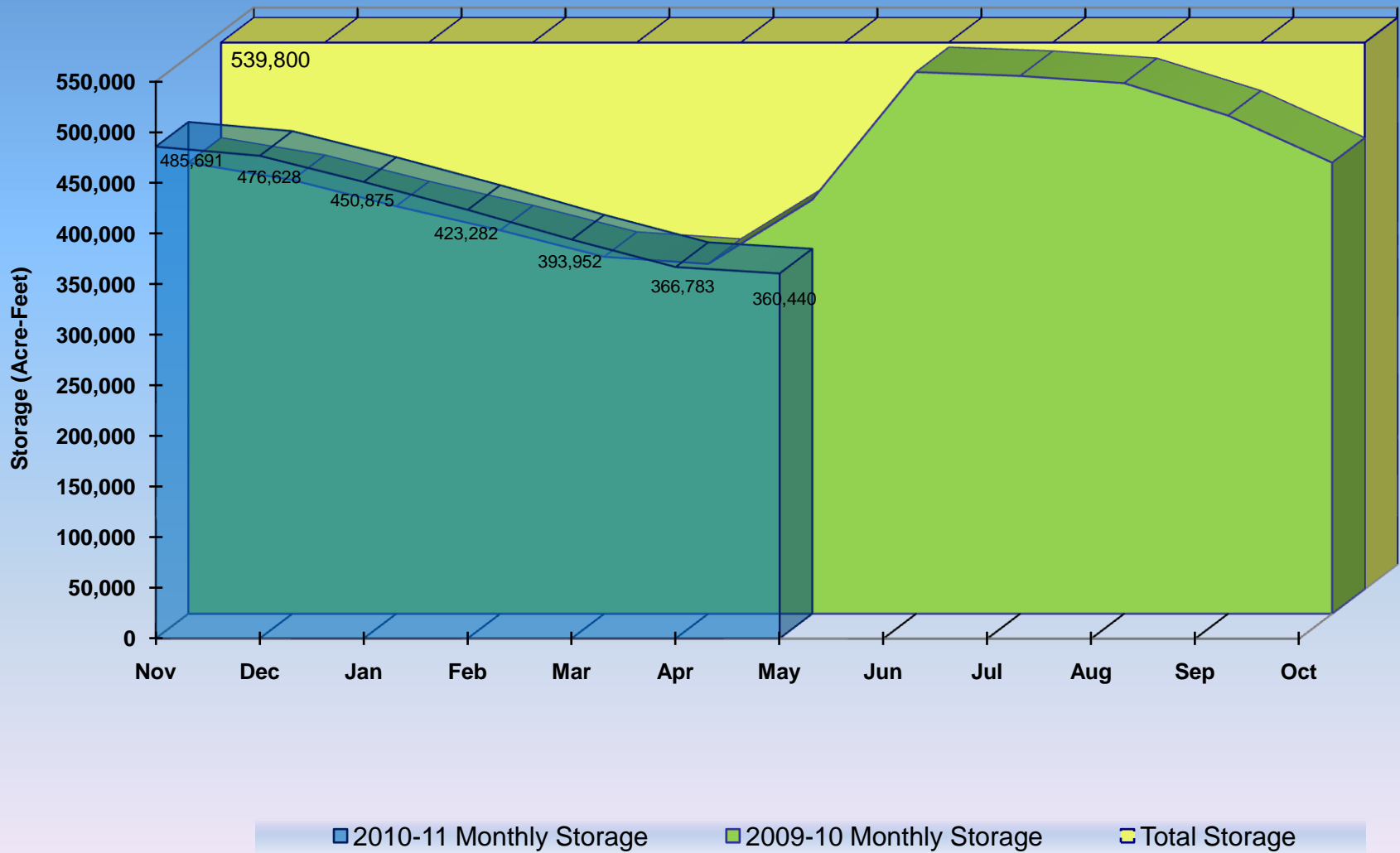
# Spinney Mountain Reservoir (District 23 - Municipal)



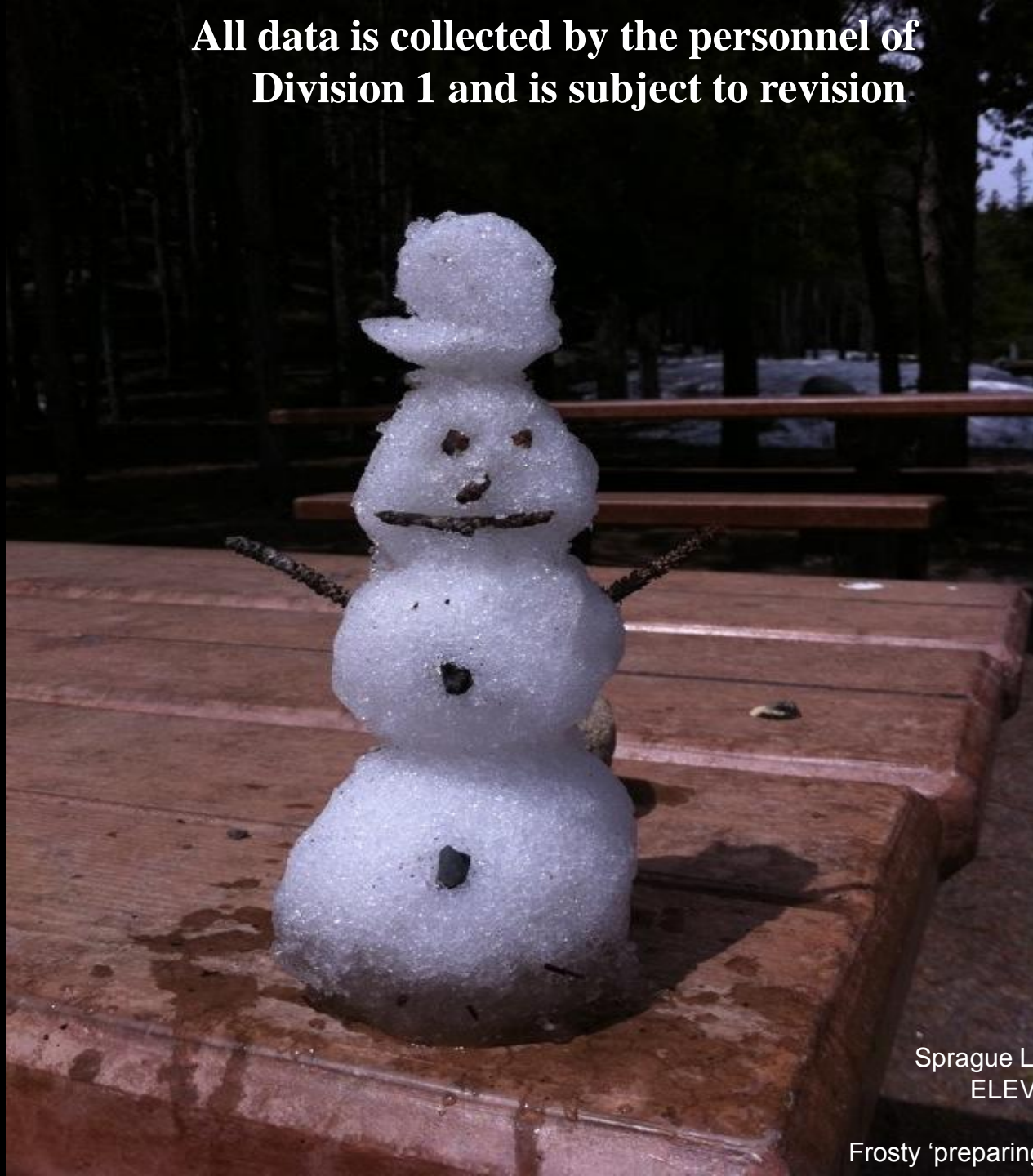
# Eleven Mile Reservoir (District 23 - Municipal)



# Lake Granby



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



Sprague Lake in RMNP  
ELEV = 8,710

Frosty 'preparing' for Spring Runoff