



# South Platte Summary

September 2004

By John Lochhead for The  
Colorado Division of Water  
Resources

# COLORADO DIVISION OF WATER RESOURCES, DIVISION 1

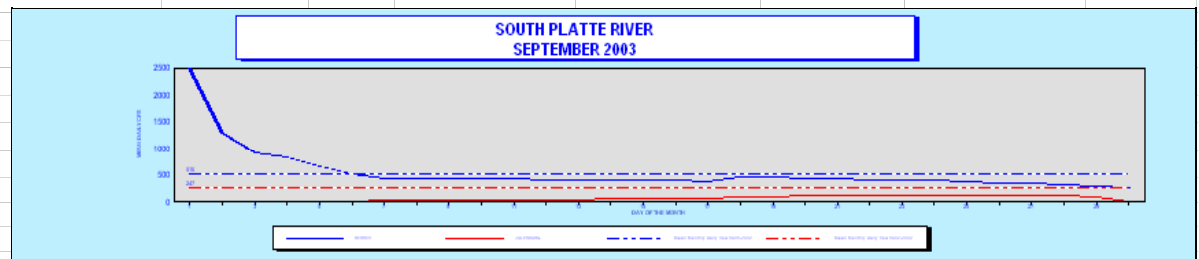
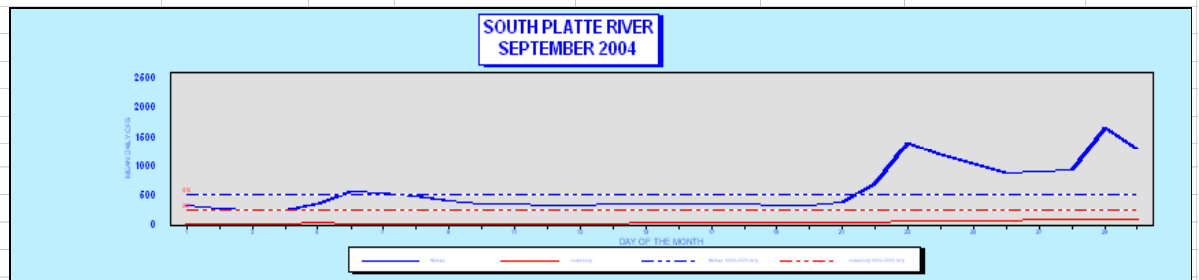
## MONTH OF SEPTEMBER 2004

07-Oct

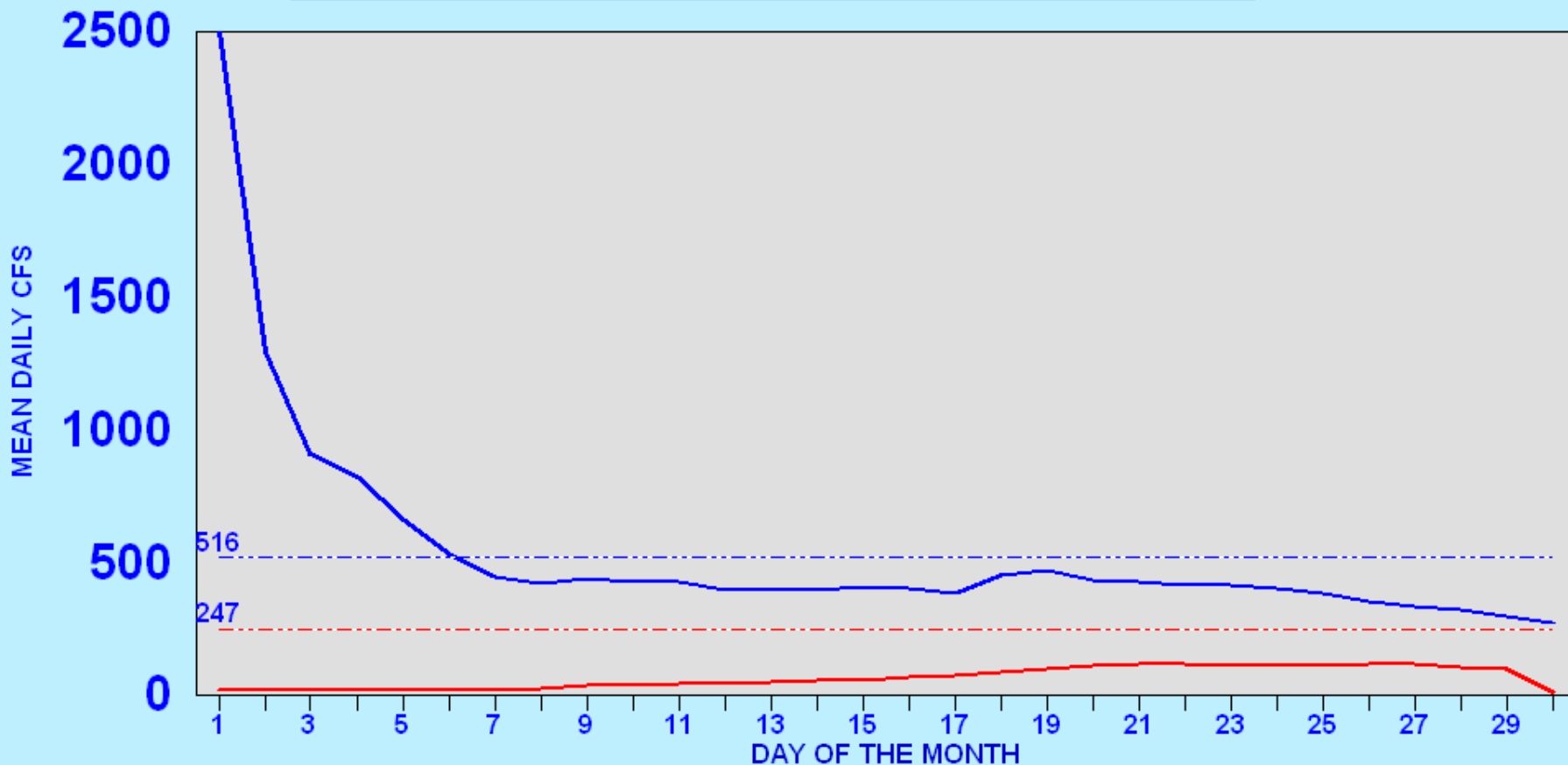
RESERVOIR	FULL ALLOWABLE CAPACITY (ACRE FEET)	FIRST OF MONTH (ACRE FEET)	END OF MONTH (ACRE FEET)	DISTRICT	CHANGE IN STORAGE (ACRE FEET)	% CHANGE IN STORAGE BASED ON FIRST OF MONTH STORAGE	% OF CURRENT FULL ALLOWABLE CAPACITY	% OF CURRENT FULL ALLOWABLE CAPACITY THIS MONTH, (LAST YEAR)	SURCHARGE (ACRE FEET)
<b>JULESBURG</b>	<b>22,666</b>	<b>6,904</b>	<b>5,190</b>	<b>64</b>	<b>(1,714)</b>	<b>-25%</b>	<b>23%</b>	<b>16%</b>	<b>0</b>
<b>NORTH STERLING</b>	<b>73,730</b>	<b>10,830</b>	<b>2,850</b>	<b>64</b>	<b>(7,980)</b>	<b>-74%</b>	<b>4%</b>	<b>17%</b>	<b>0</b>
<b>PREWITT</b>	<b>28,500</b>	<b>4,740</b>	<b>6,340</b>	<b>64</b>	<b>1,600</b>	<b>34%</b>	<b>22%</b>	<b>17%</b>	<b>0</b>
<b>JACKSON</b>	<b>27,257</b>	<b>8,901</b>	<b>6,500</b>	<b>1</b>	<b>(2,401)</b>	<b>-27%</b>	<b>24%</b>	<b>0%</b>	<b>0</b>
<b>EMPIRE</b>	<b>37,700</b>	<b>0</b>	<b>890</b>	<b>1</b>	<b>890</b>	<b>ERR</b>	<b>2%</b>	<b>14%</b>	<b>0</b>
<b>RIVERSIDE</b>	<b>63,113</b>	<b>12,692</b>	<b>9,315</b>	<b>1</b>	<b>(3,377)</b>	<b>-27%</b>	<b>15%</b>	<b>28%</b>	<b>0</b>
<b>BARR LAKE</b>	<b>31,652</b>	<b>9,451</b>	<b>6,762</b>	<b>2</b>	<b>(2,689)</b>	<b>-28%</b>	<b>21%</b>	<b>27%</b>	<b>0</b>
<b>CHEESMAN</b>	<b>79,064</b>	<b>73,928</b>	<b>68,896</b>	<b>80</b>	<b>(5,032)</b>	<b>-7%</b>	<b>87%</b>	<b>74%</b>	<b>0</b>
<b>ELEVEN MILE</b>	<b>97,779</b>	<b>85,589</b>	<b>87,810</b>	<b>23</b>	<b>2,221</b>	<b>3%</b>	<b>90%</b>	<b>67%</b>	<b>0</b>
<b>SPINNEY</b>	<b>53,651</b>	<b>36,498</b>	<b>33,346</b>	<b>23</b>	<b>(3,152)</b>	<b>-9%</b>	<b>62%</b>	<b>64%</b>	<b>0</b>
<b>ANTERO</b>	<b>20,015</b>	<b>10</b>	<b>10</b>	<b>23</b>	<b>0</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0</b>

RIVER GAGES	MEAN DAILY FLOW (CFS)
<b>KERSEY</b>	<b>589</b>
<b>JULESBURG</b>	<b>46</b>
<b>THIS MONTH LAST YEAR</b>	
<b>KERSEY</b>	<b>540</b>
<b>JULESBURG</b>	<b>62</b>
<b>MEAN FOR PERIOD OF RECORD*</b>	
<b>KERSEY</b>	<b>516</b>
<b>JULESBURG</b>	<b>247</b>

\* 1901-2003  
1902-2003



# SOUTH PLATTE RIVER SEPTEMBER 2003



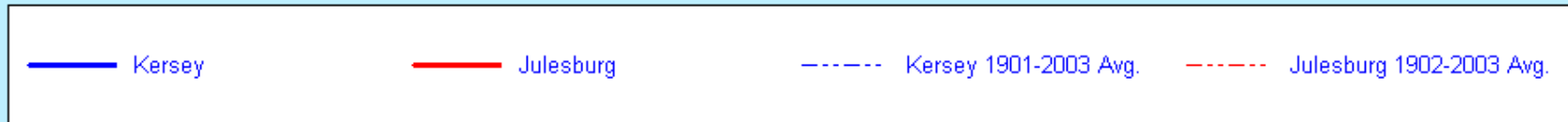
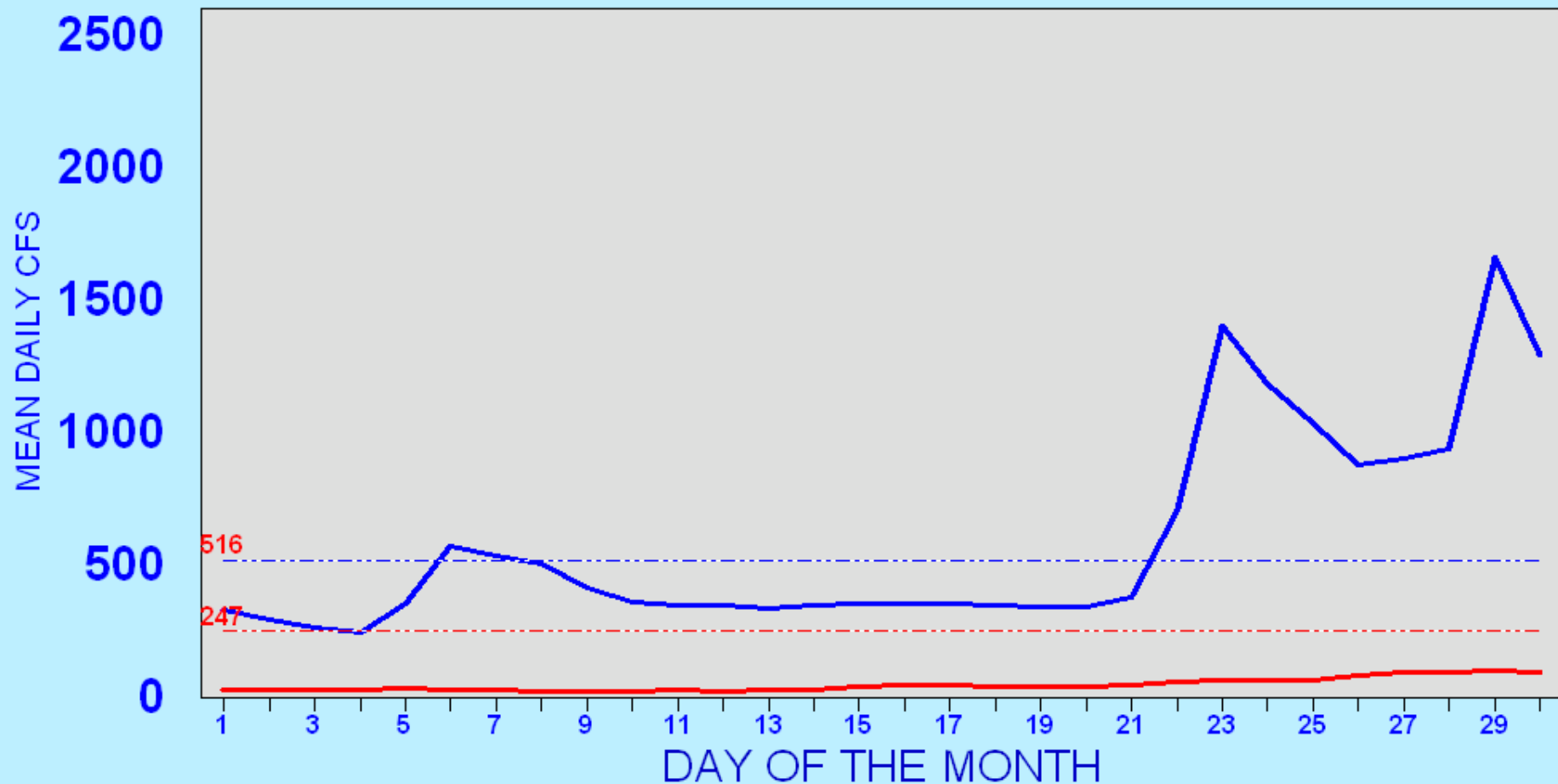
— KERSEY

— JULESBURG

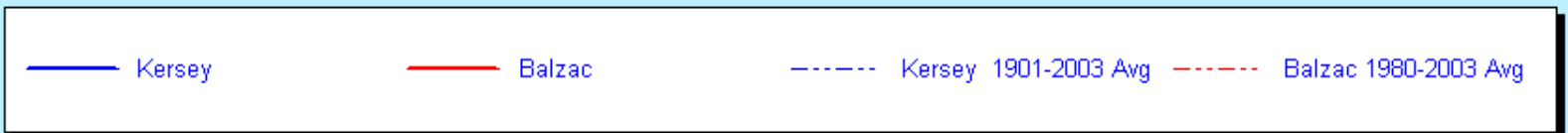
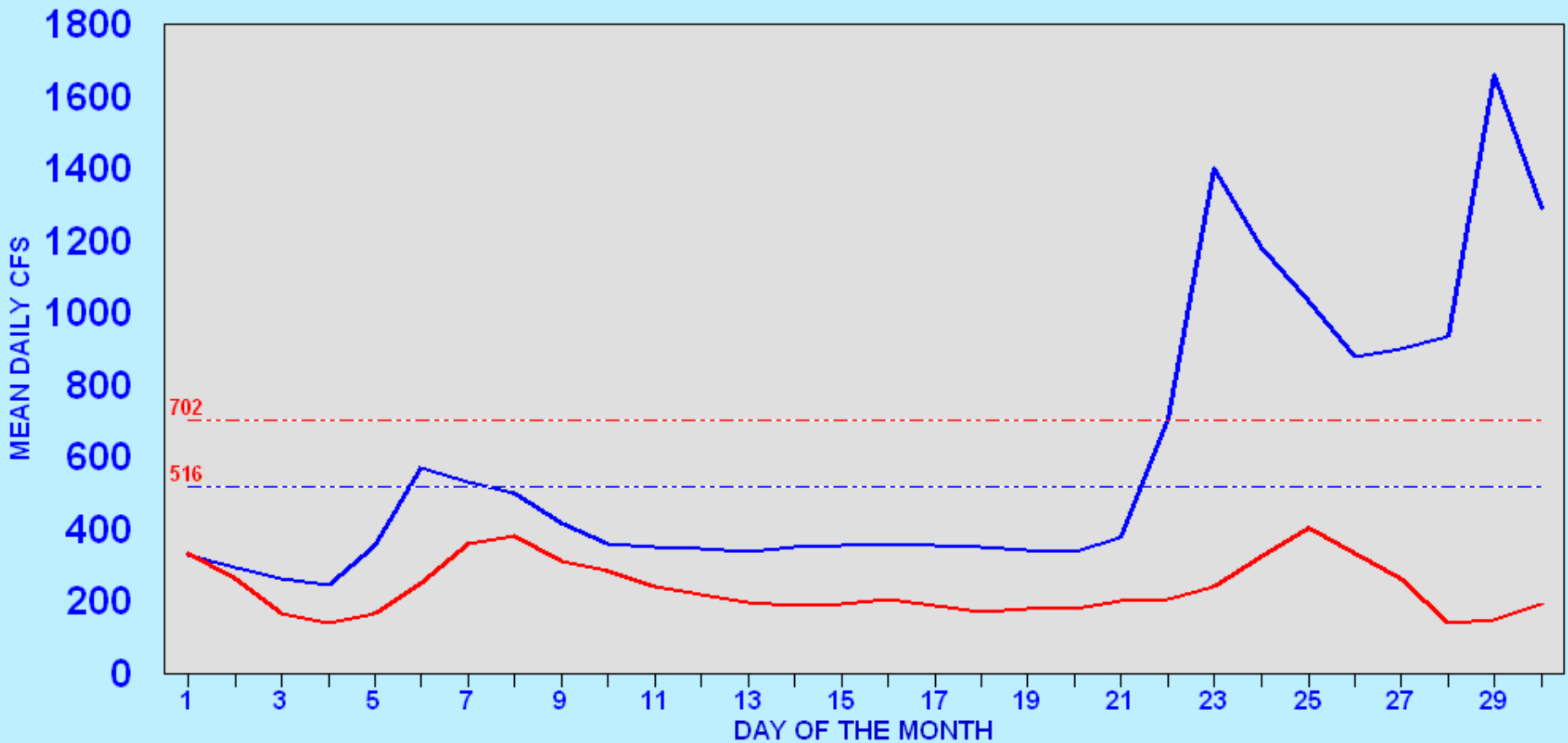
- - - - Mean Monthly daily flow 1901-2002

- - - - Mean Monthly daily flow 1902-2002

# SOUTH PLATTE RIVER SEPTEMBER 2004



# Kersey, Balzac SEPTEMBER 2004



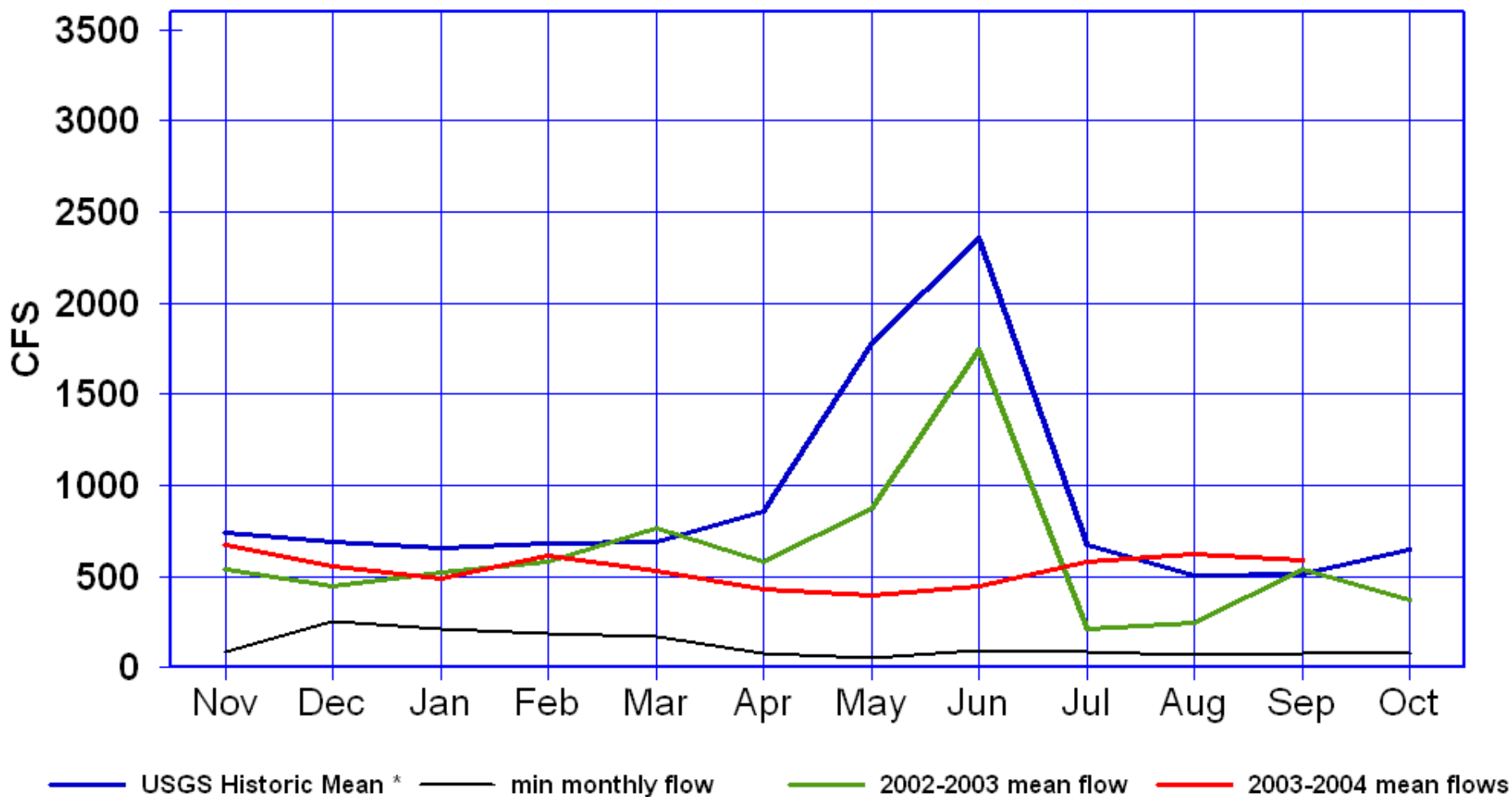
# South Platte River Monthly Means, Historic, Max, Min, and Estimated

South Platte River at Kersey							South Platte River at Julesburg								
	USGS Historic Mean *	Historic Max flow *	Year	Historic Min flow *	Year	IY 2004 mean monthly flow	Estimated Mean		USGS Historic Mean *	Historic Max flow *	Year	Historic Min flow *	Year	IY 2004 mean monthly flow	Estimated Mean
Nov	737	2585	1985	87	1935	671		Nov	353	2358	1985	15.4	2003	19	
Dec	685	1375	1962	251	1935	557		Dec	415	1371	1985	18.8	1912	19	*
Jan	658	1434	1984	209	1935	485		Jan	530	1571	1998	49.6	2003	63	*
Feb	680	1861	1914	182	1935	615		Feb	610	1864	1930	49.4	2003	54	*
Mar	688	1852	1983	170	1935	528		Mar	550	2200	1939	44.9	2003	19	
Apr	853	5091	1942	82	1935	432		Apr	545	2808	1983	17.3	1904	27	
May	1780	13065	1980	52	1963	399		May	1054	9922	1980	24.1	1911	34	
Jun	2355	14517	1983	95	1940	444		Jun	1474	12200	1983	8.33	1910	39	
Jul	671	5784	1983	84	1963	575		Jul	303	5059	1983	2.15	1903	46	
Aug	505	2782	1984	68	1940	622		Aug	186	1882	1997	2.52	1902	38	
Sep	516	2769	1938	77	1954	589		Sep	247	1964	1984	5.6	1903	46	
Oct	651	3388	1985	82	1935			Oct	313	2427	1985	5.85	1904		
*Period of record 1901-2003							*Period of record 1902-2003								

Mt. Evans

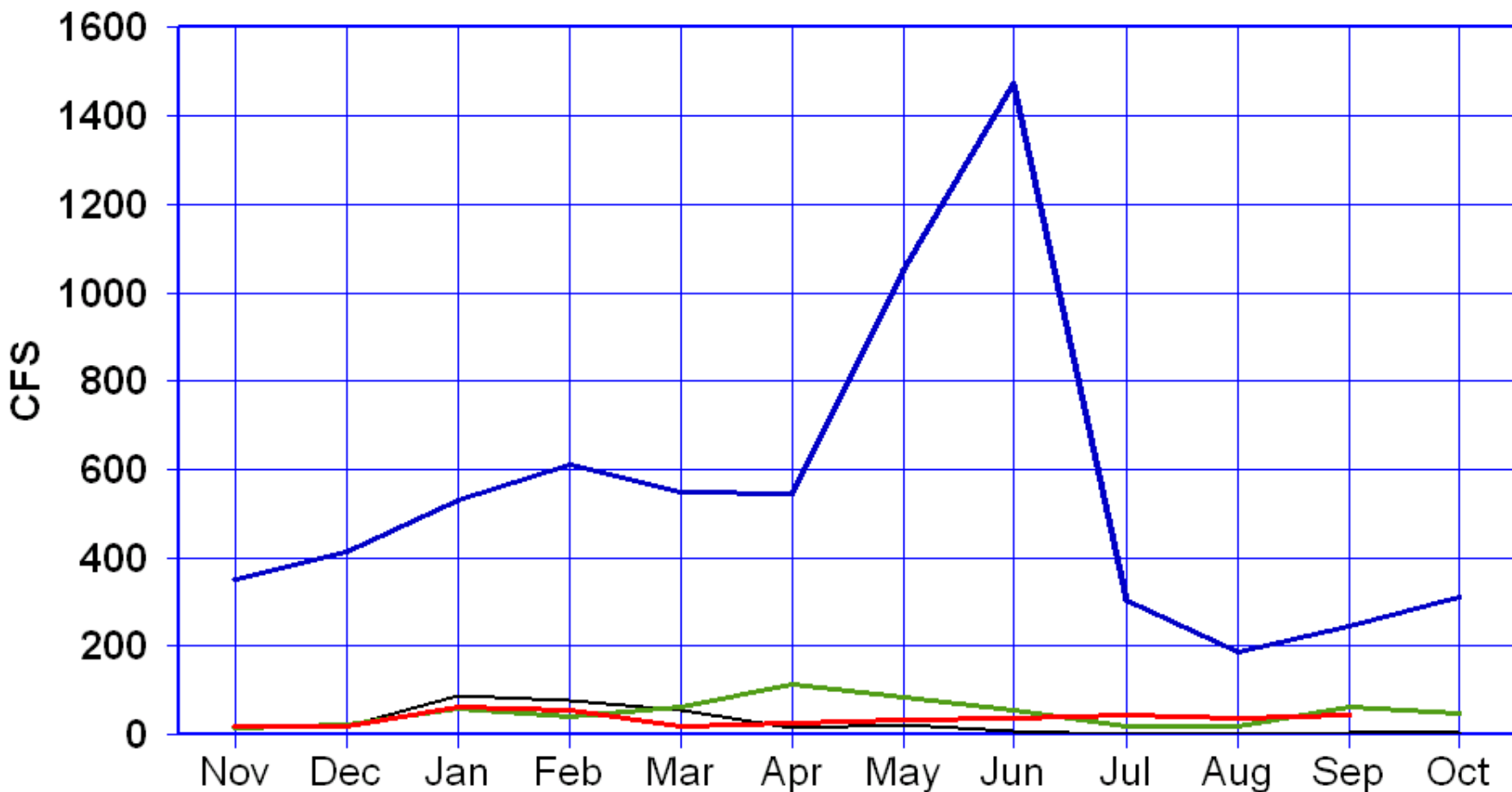
# South Platte River at Kersey

Irrigation Water Year\*



# South Platte River at Julesburg

Irrigation Water Year\*



— USGS Historic Mean \*

— Min. monthly flows

— 2002-2003 mean flows

— 2003-2004 Mean monthly flows

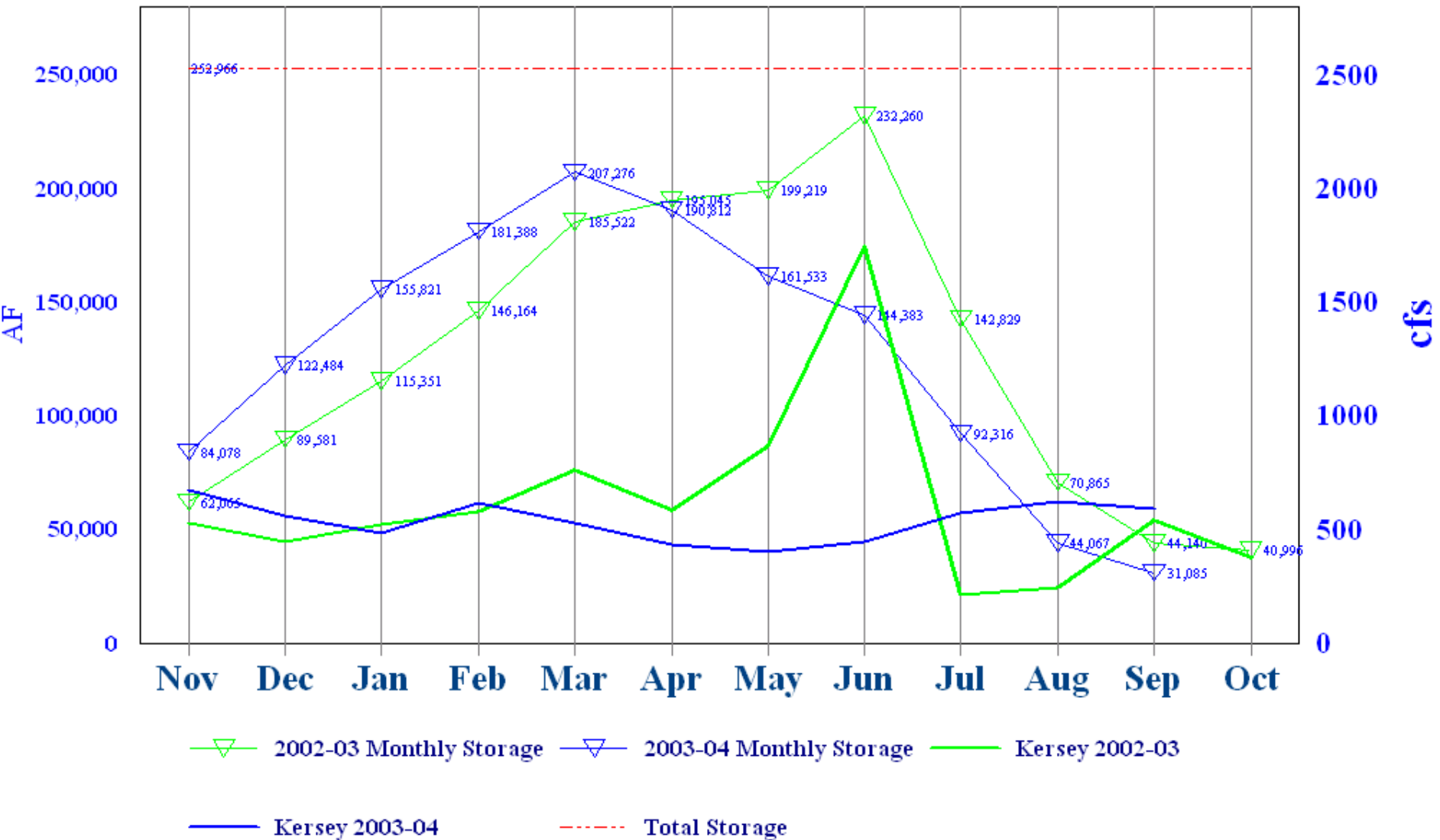


**Next 4 slides show Reservoir  
storage below and above  
Kersey**



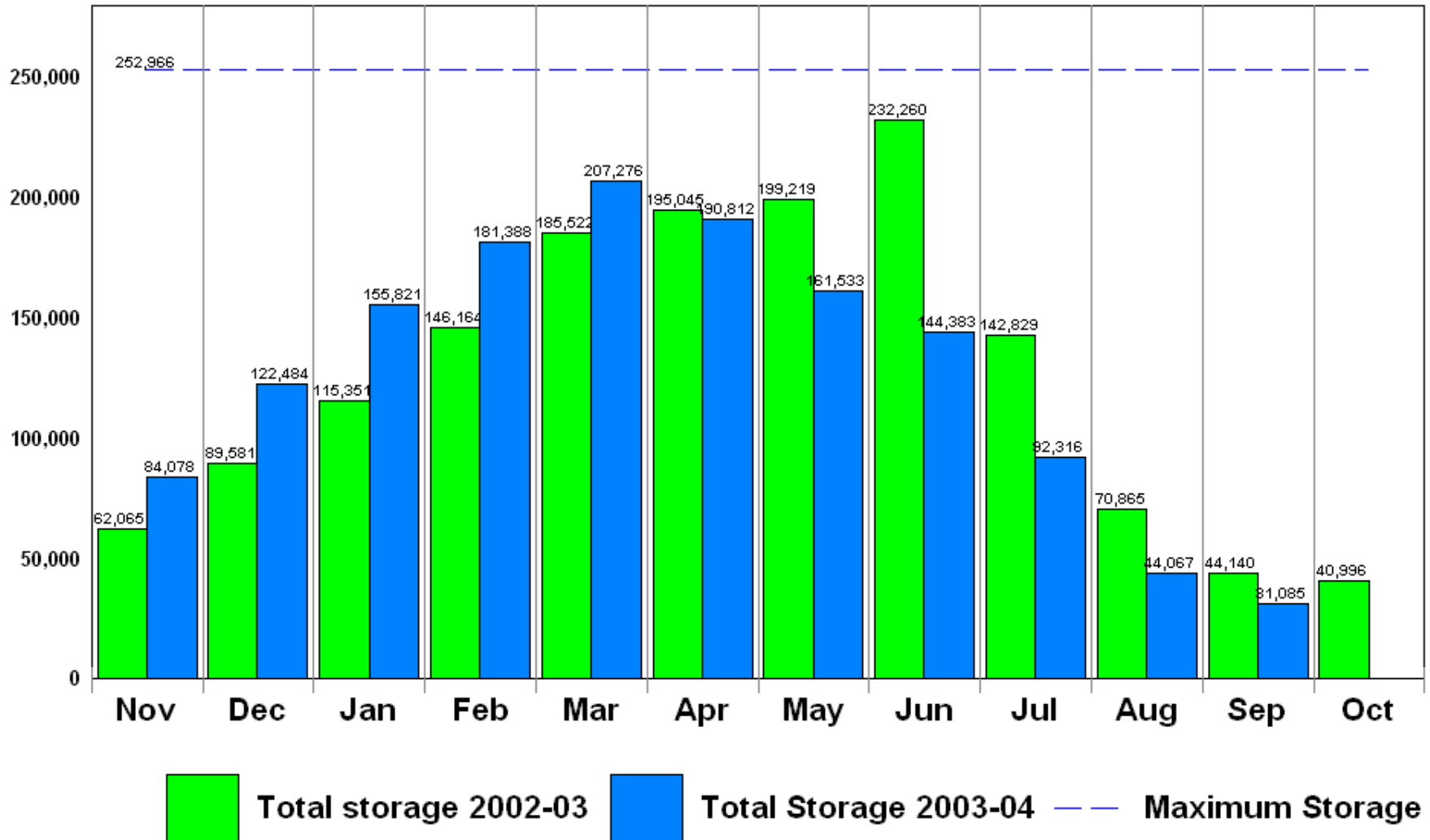
# Reservoir Storage below Kersey

Selected Reservoirs\*



\*Empire, Riverside, Jackson, Prewitt, N. Sterling, Julesburg. by jhl

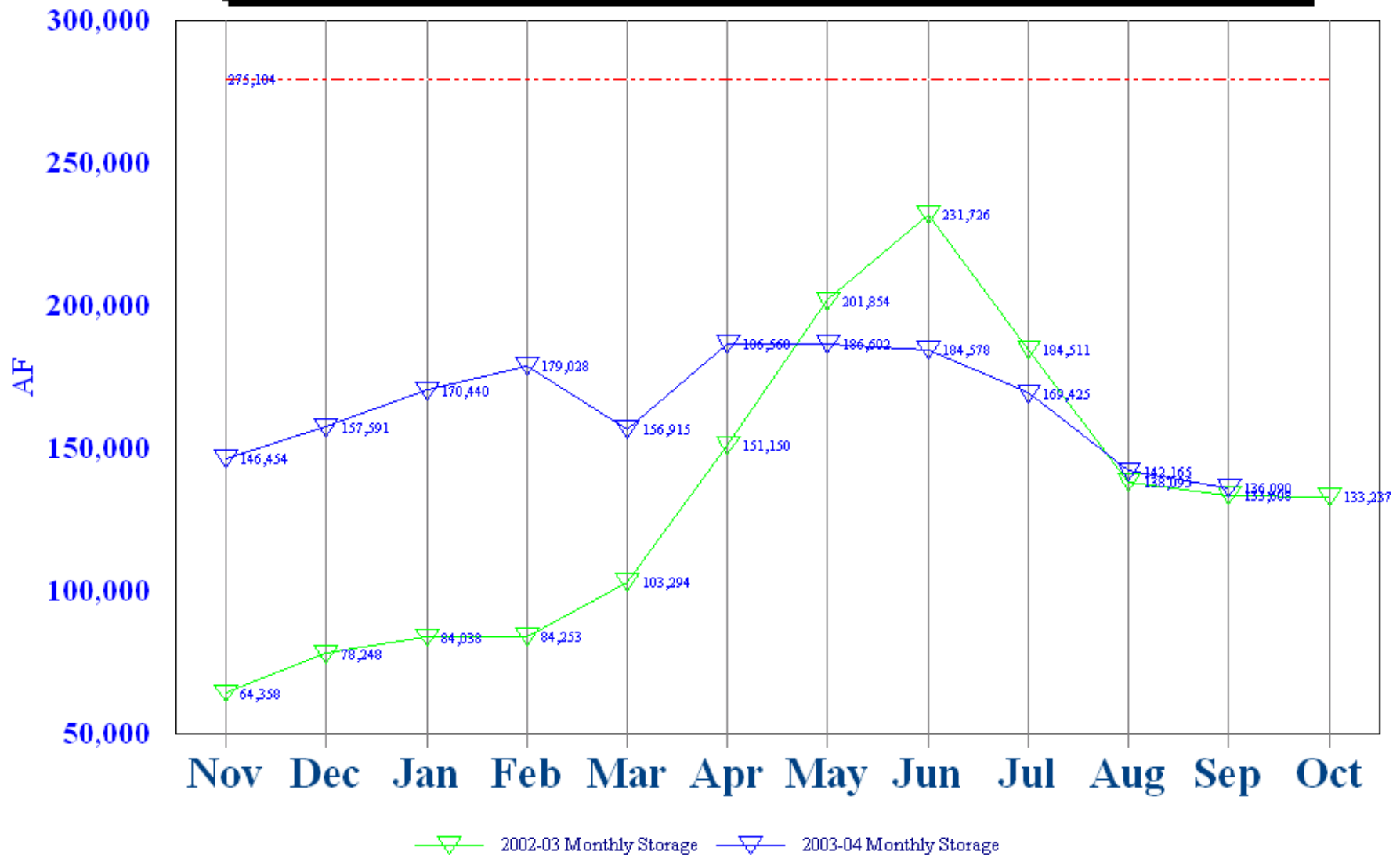
# South Platte Reservoirs Storage below Kersey\*



\*Empire,Riverside,Jackson,Prewitt,N.Sterling,Julesburg. by jhl

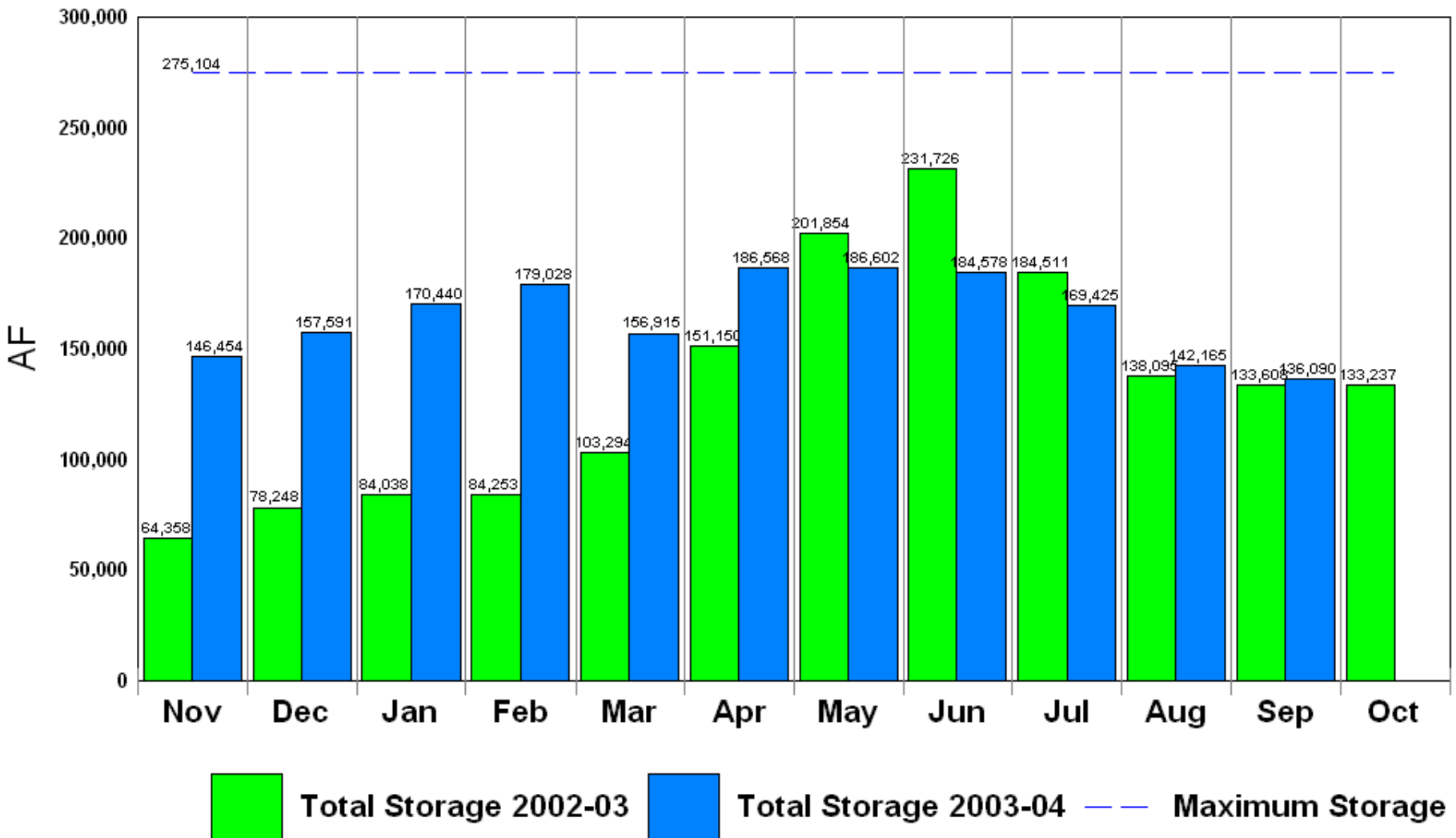
# Reservoir Storage above Kersey

Selected Reservoirs\*



\*Barr,Cobb,FossilCrk,Halligan,Marshall,Milton,Union,Standley,LowerLatham,Boyd,Loveland,Windsor,HorseCrk,Prospect. by jhl

# South Platte Reservoirs Storage above Kersey\*



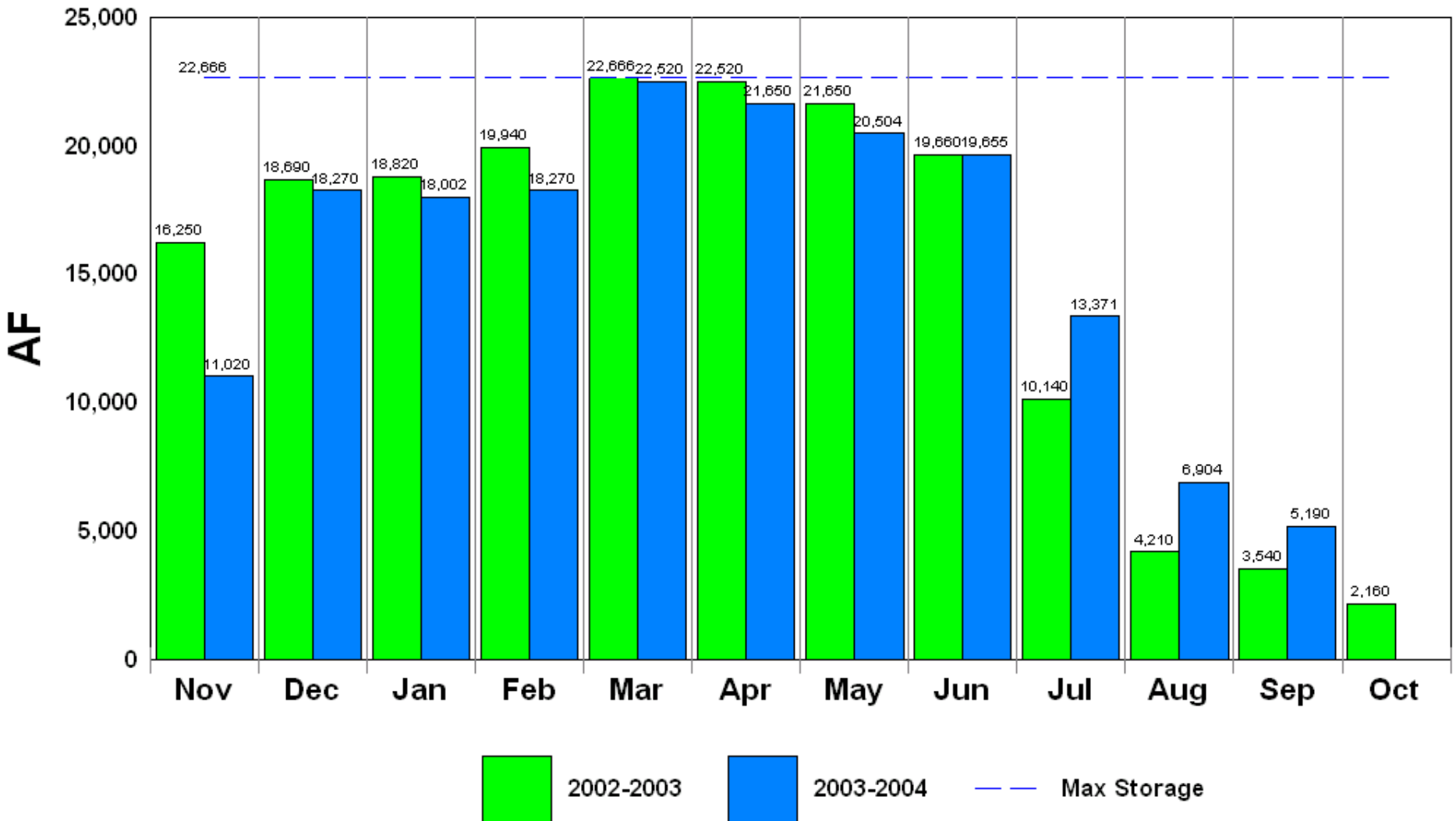
\*Barr,Cobb,FossilCrk,Halligan,Marshall,Milton,Union,Standley,LowerLatham,Boyd,Loveland,Windsor,HorseCrk,Prospect. by jhl

# **Individual Reservoir Storage follows:**



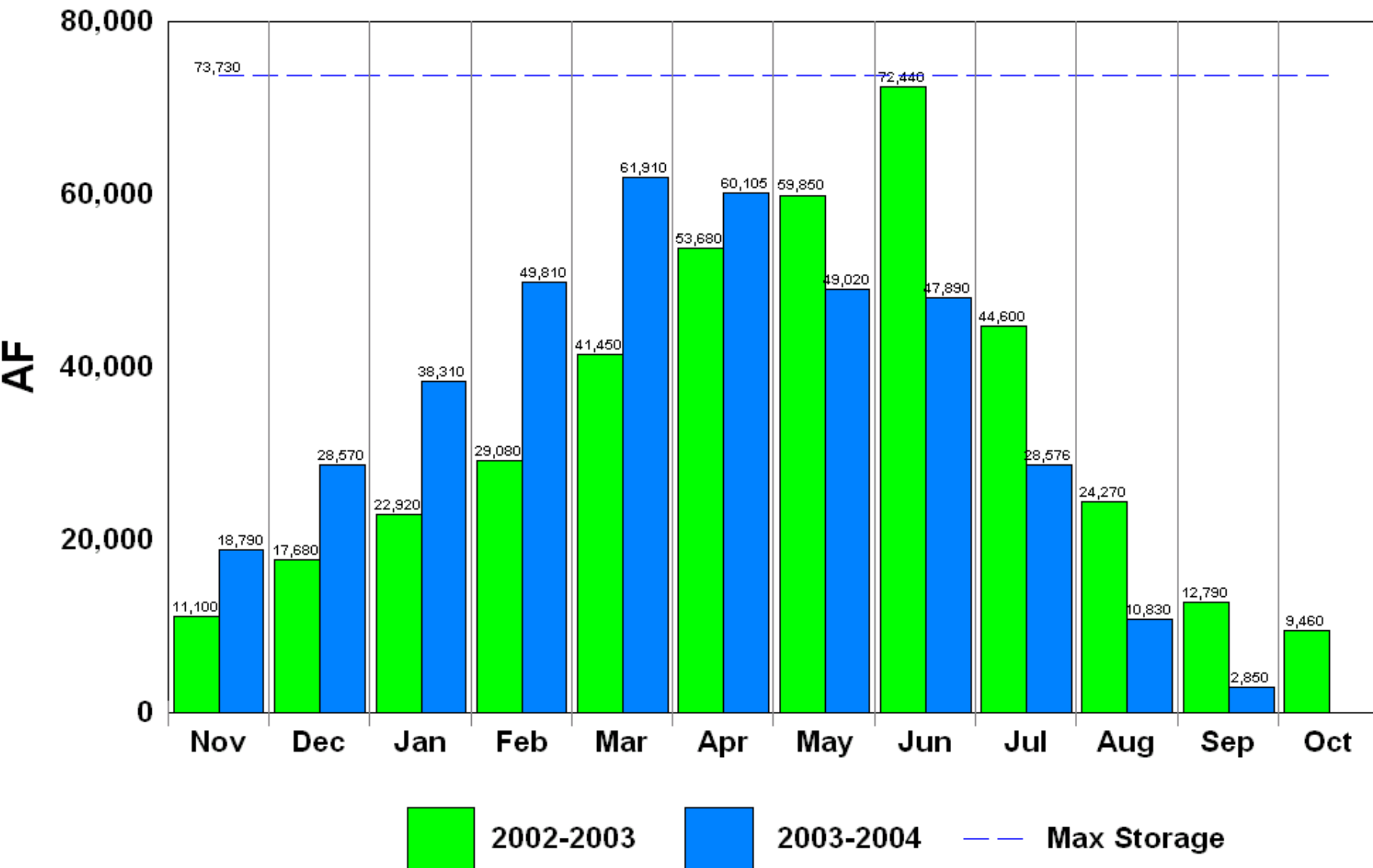
# Julesburg Reservoir

(Agricultural)



# N. Sterling Reservoir

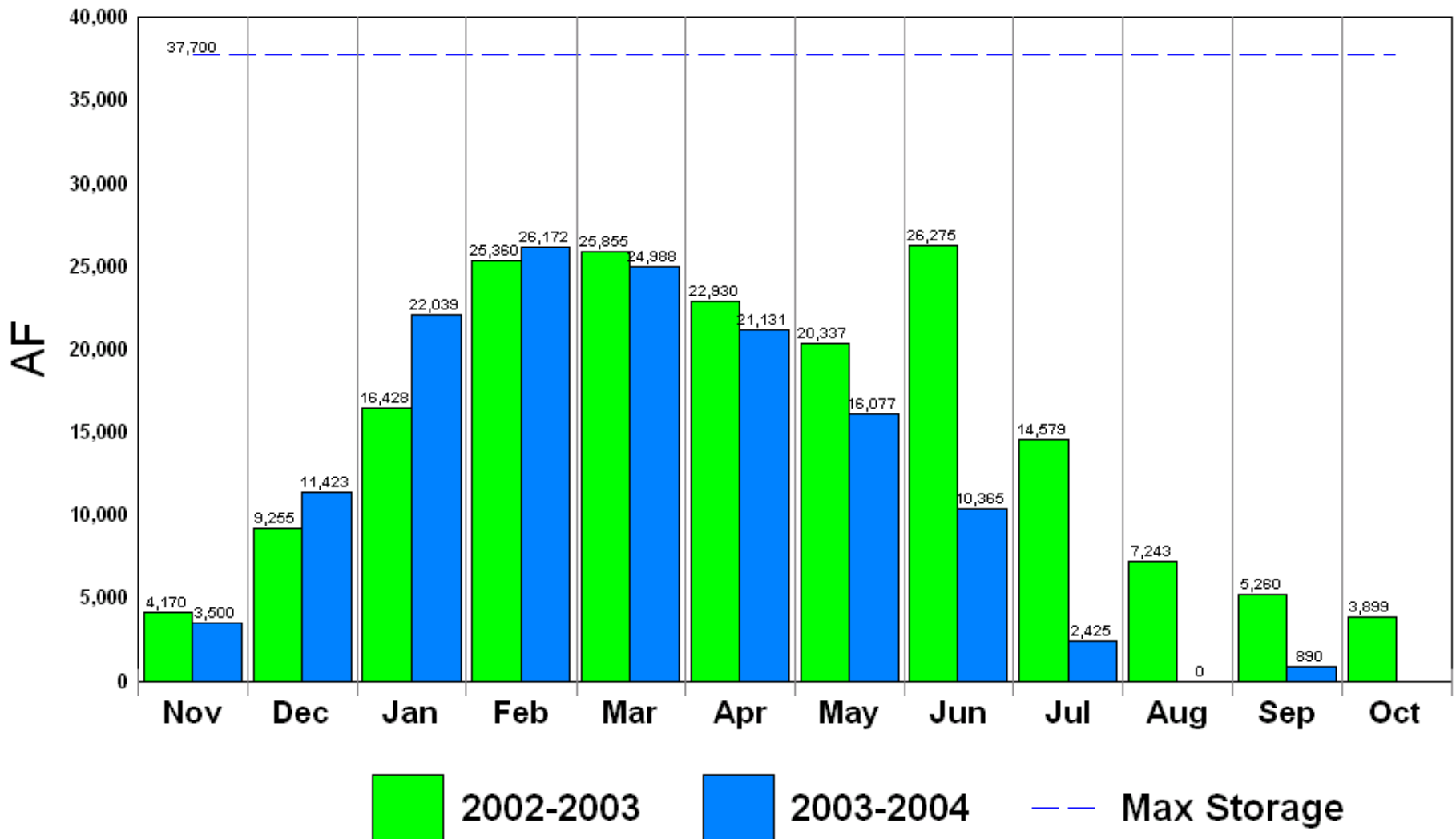
(Agricultural)





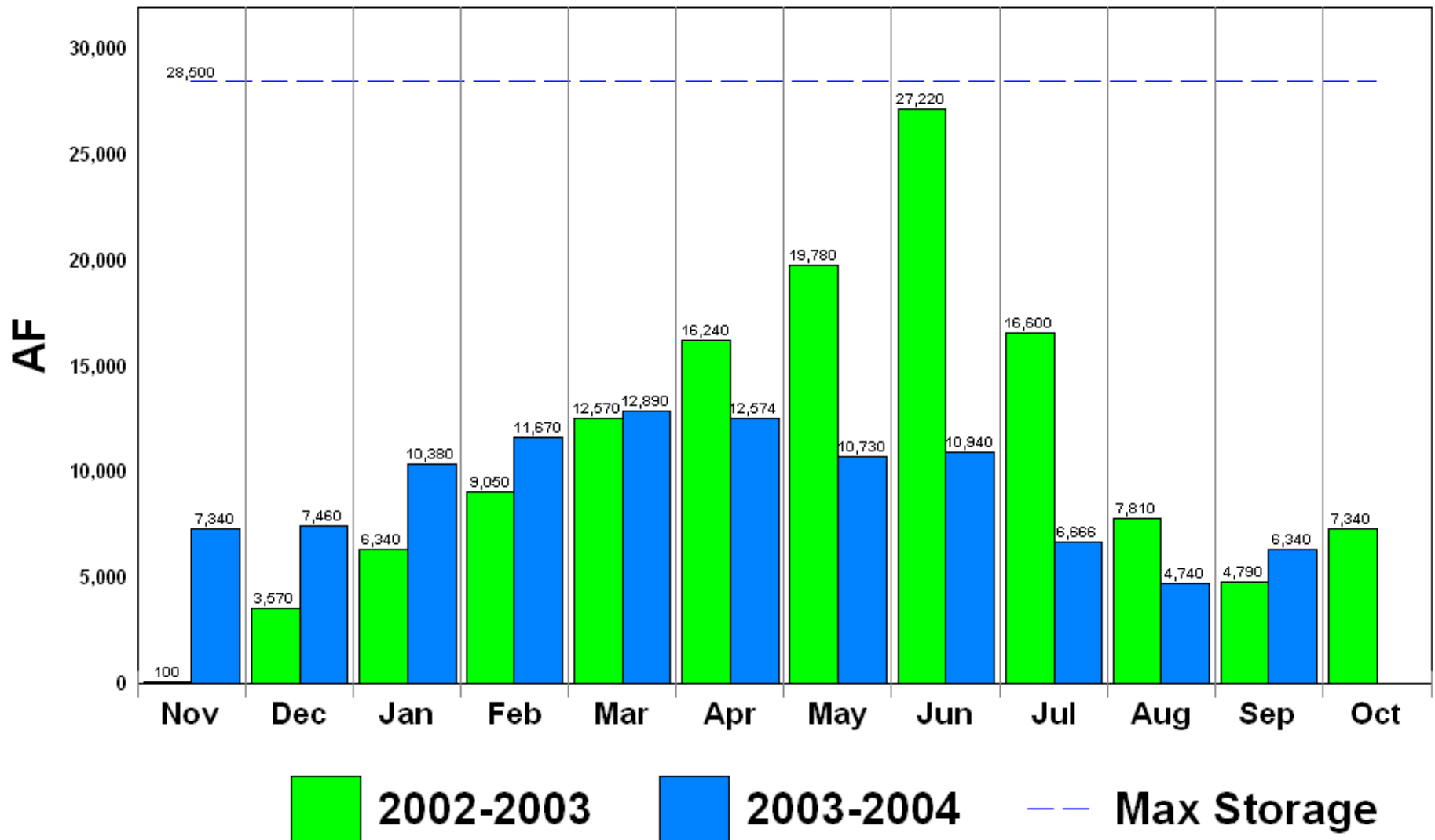
# Empire Reservoir

(Agricultural)



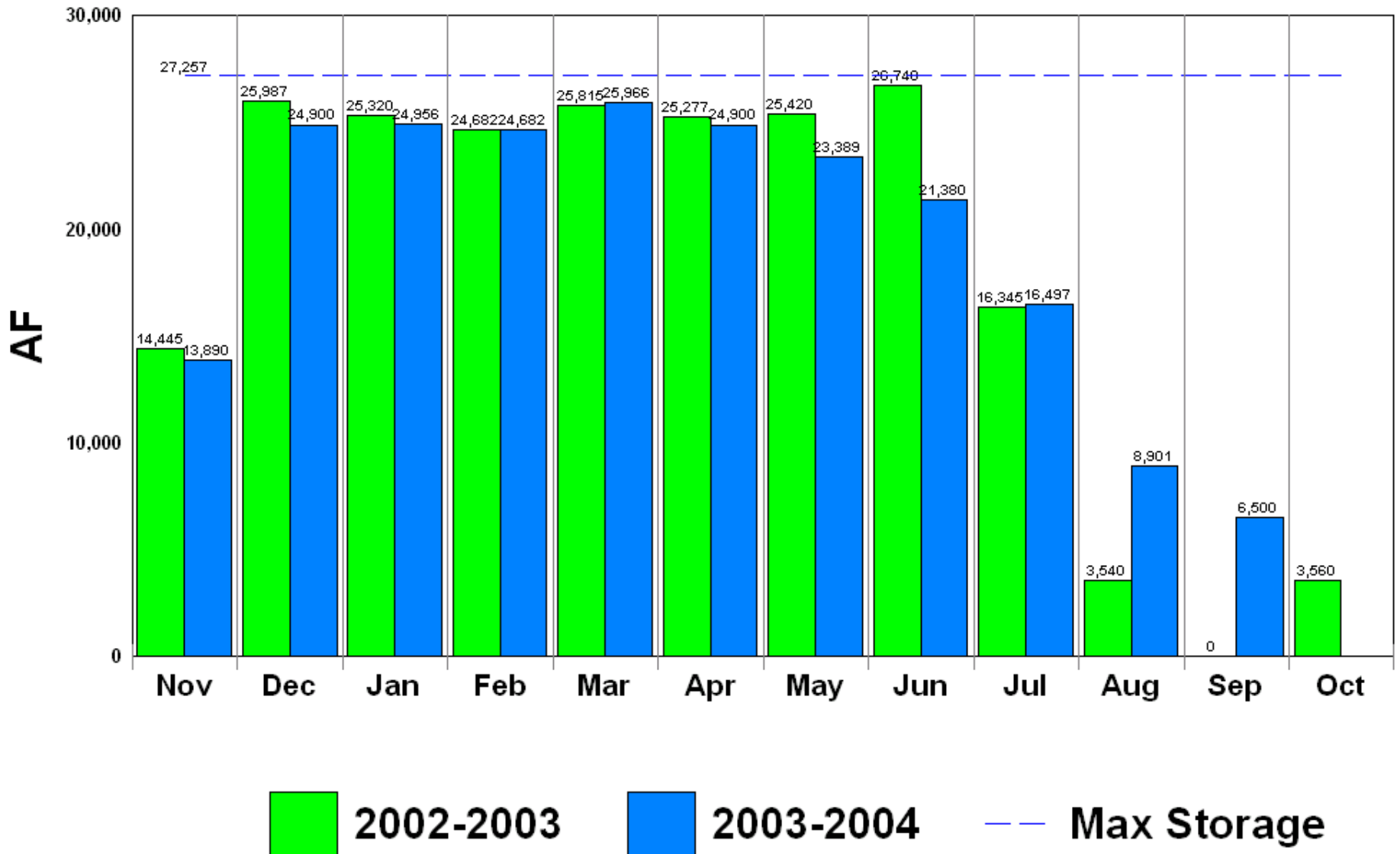
# Prewitt Reservoir

(Agricultural)



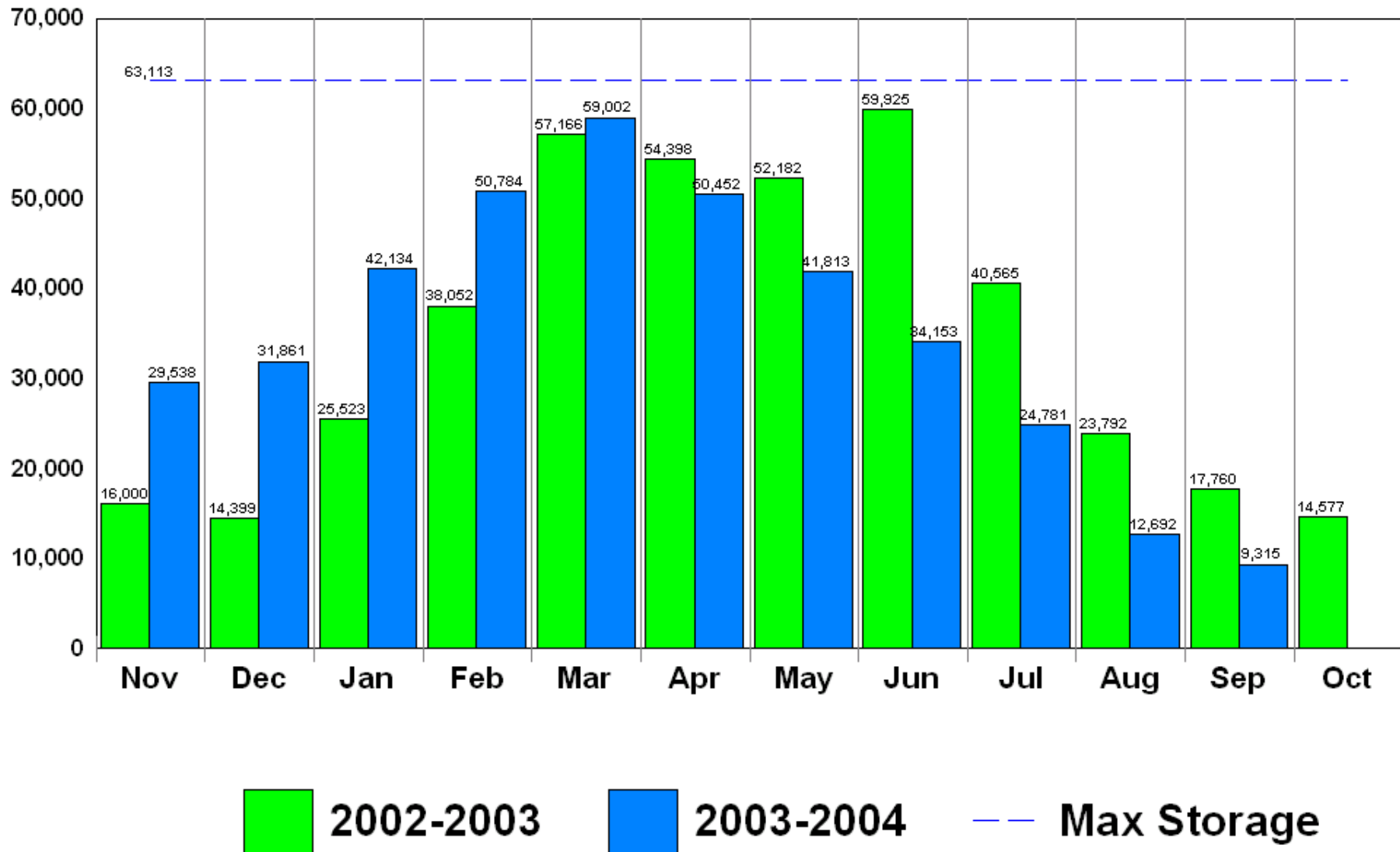
# Jackson Reservoir

(Agricultural)



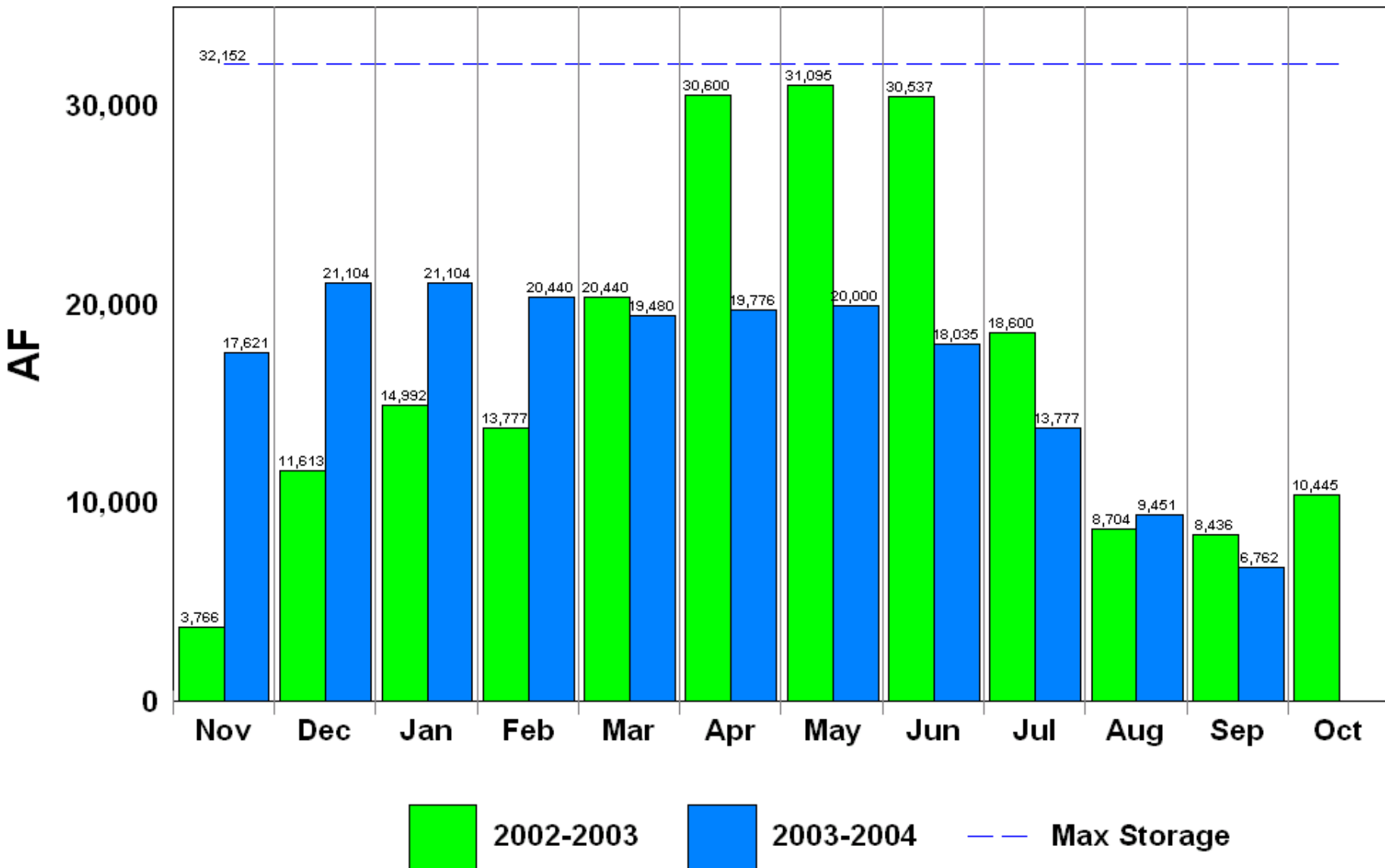
# Riverside Reservoir

(Agricultural)



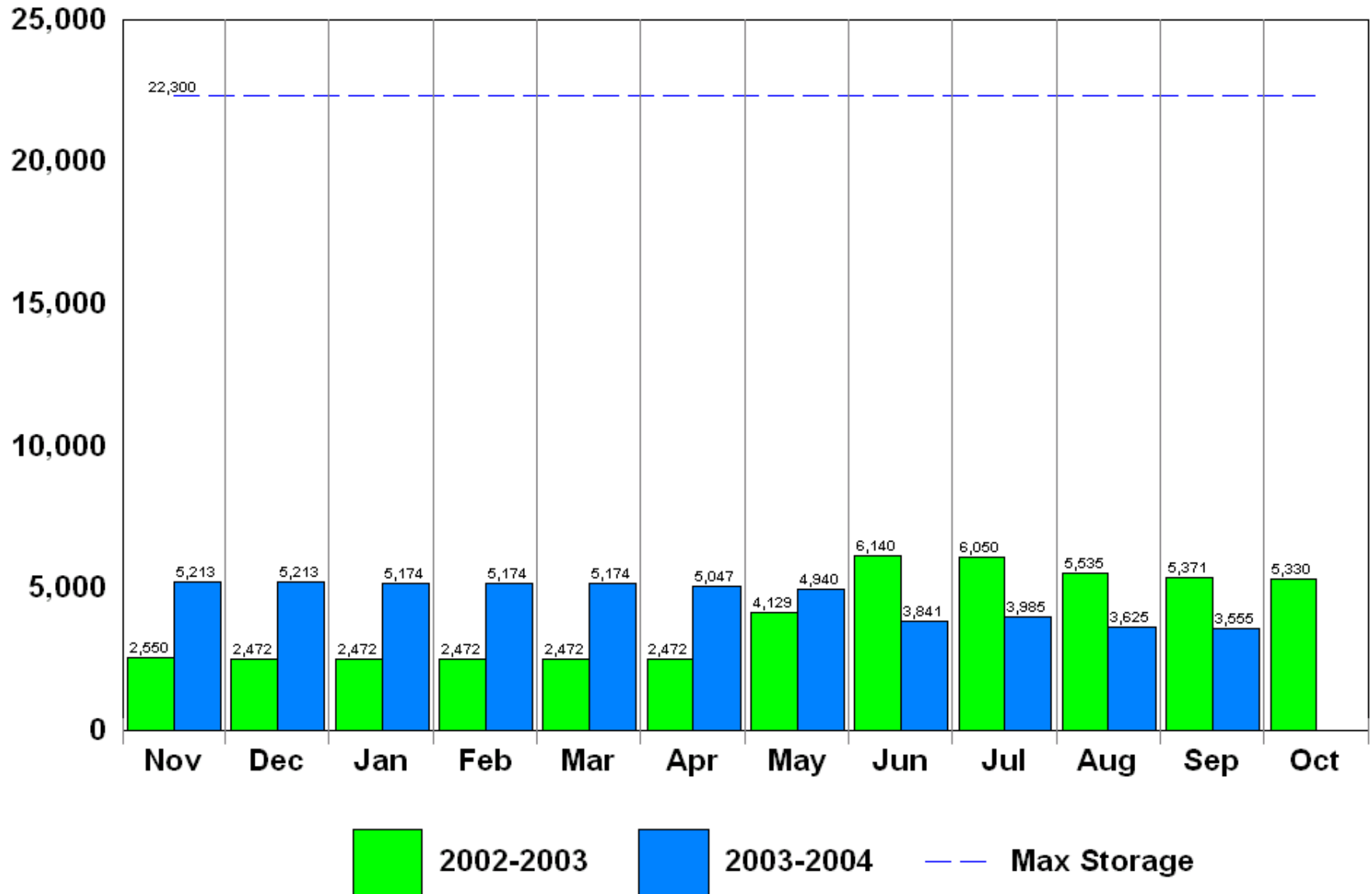
# Barr Lake

(Agricultural)



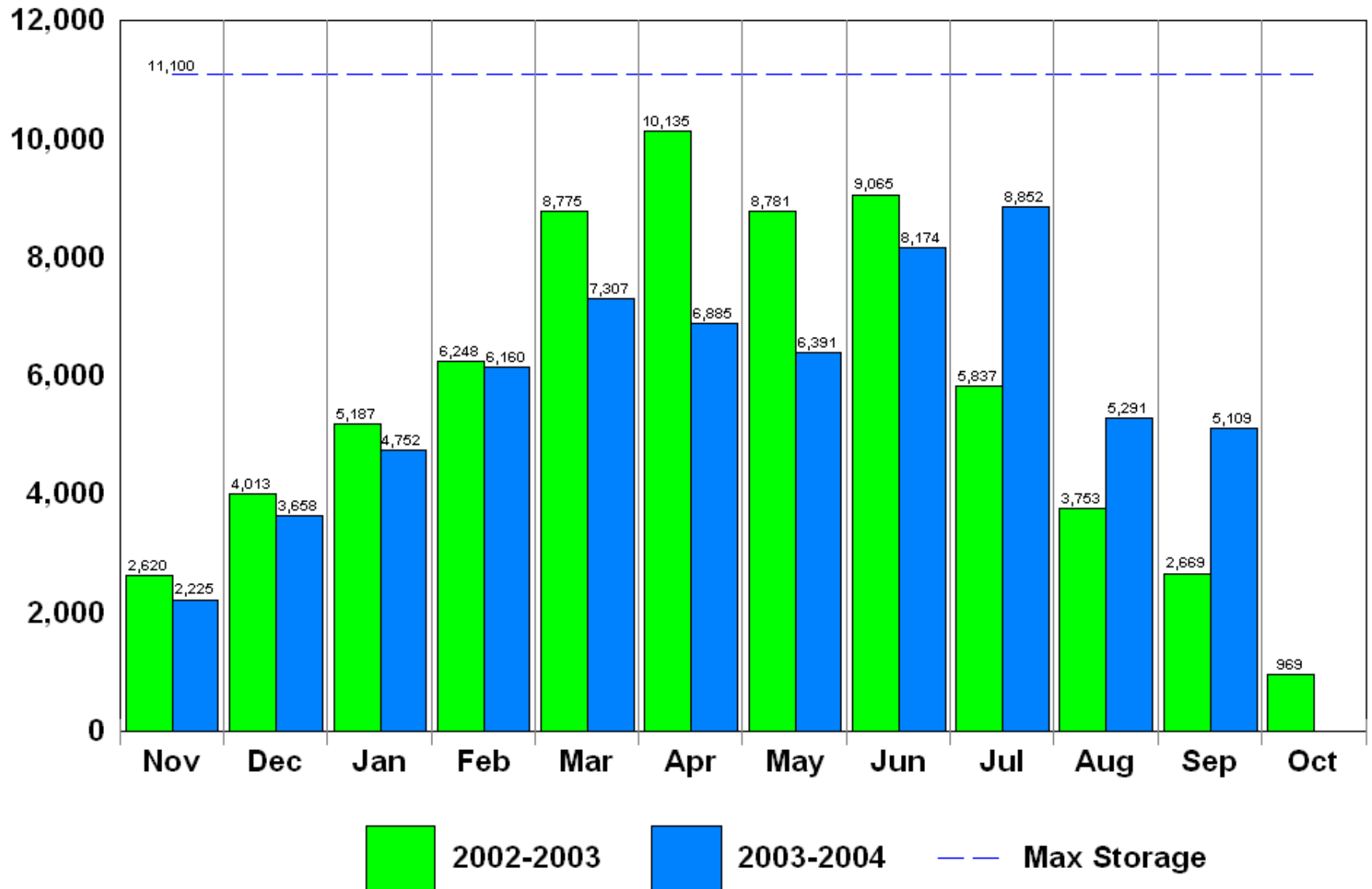
# Cobb Lake

(Agricultural)



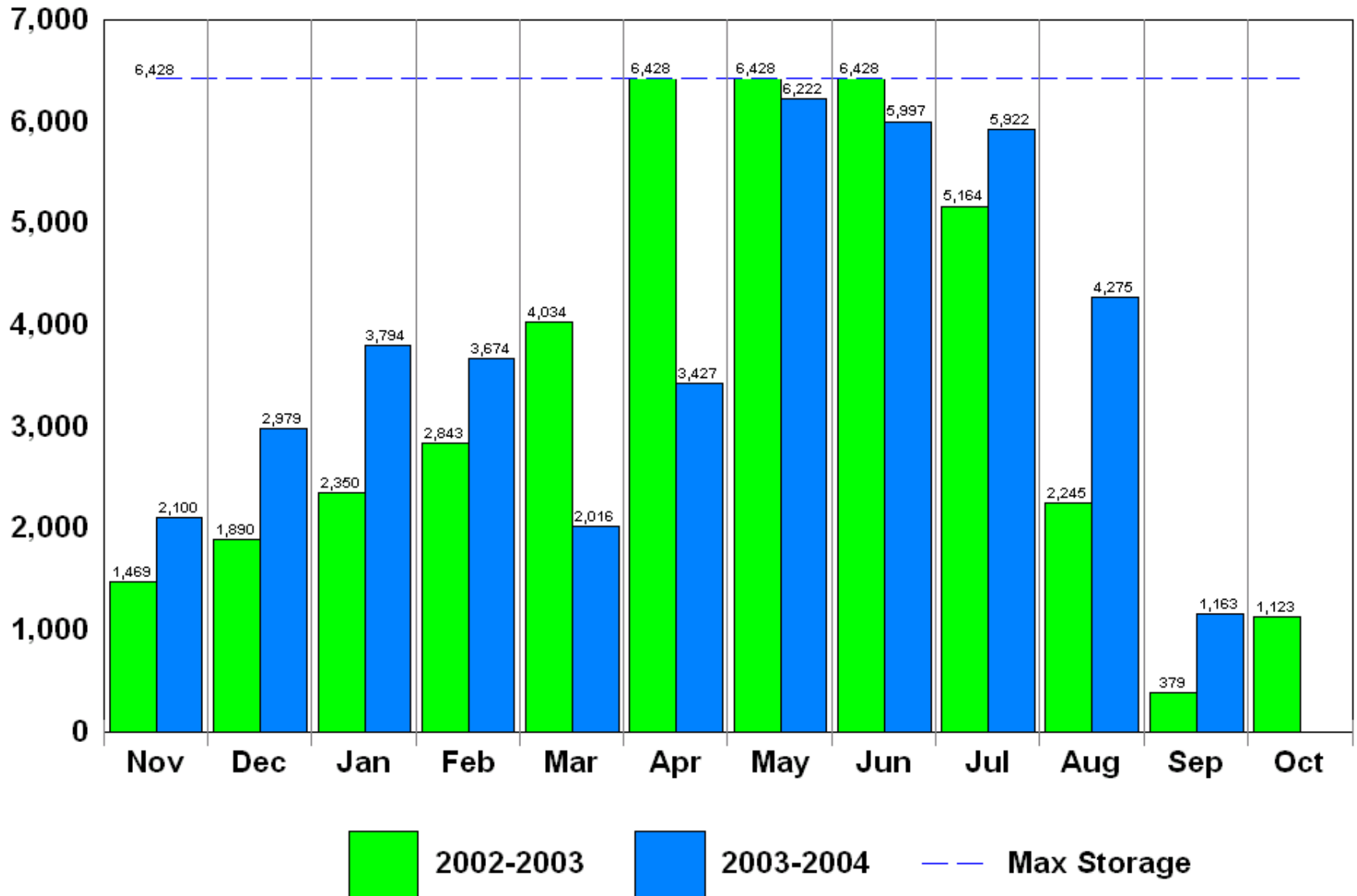
# Fossil Creek Reservoir

(Agricultural)



# Halligan Reservoir

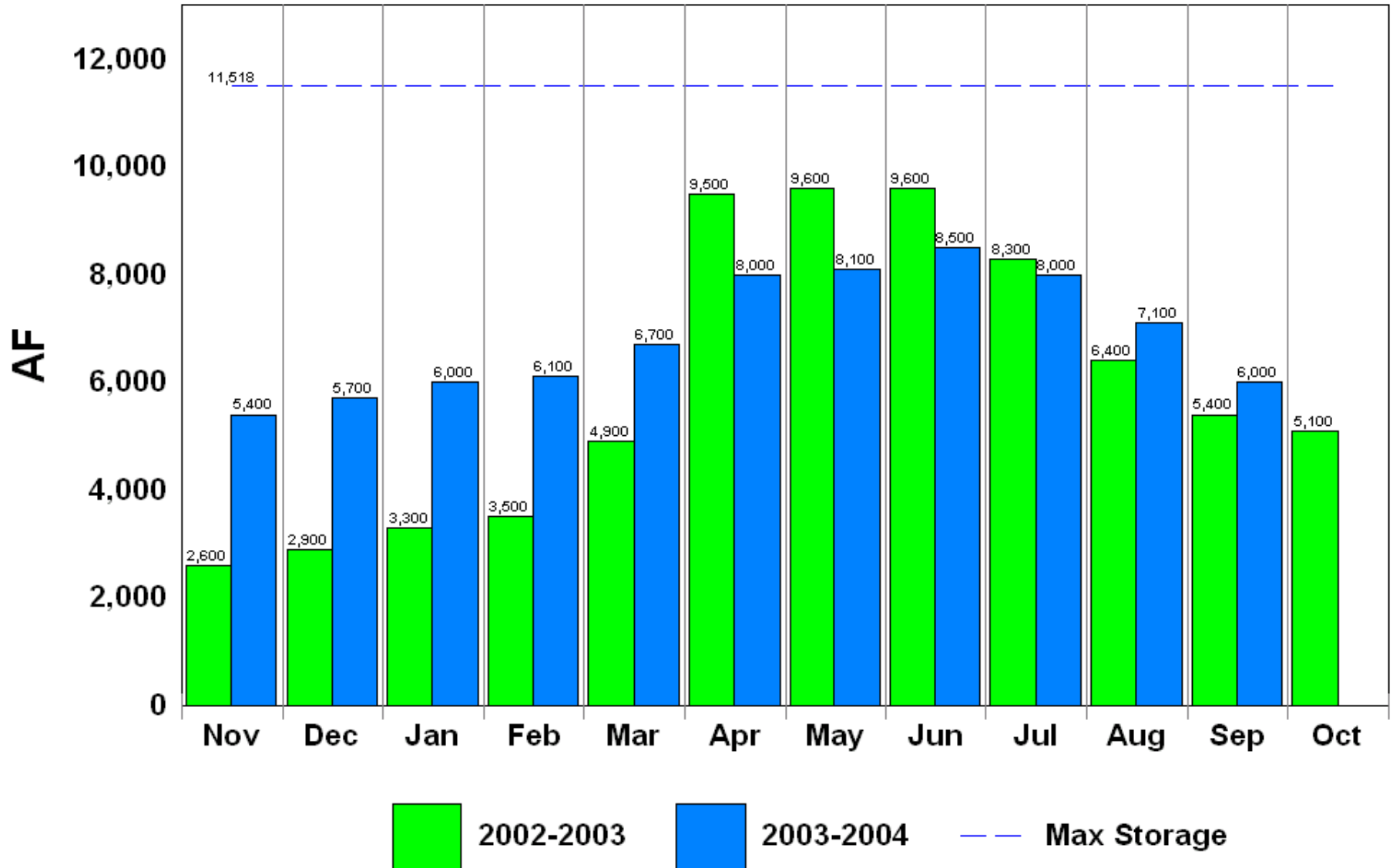
(Agricultural)





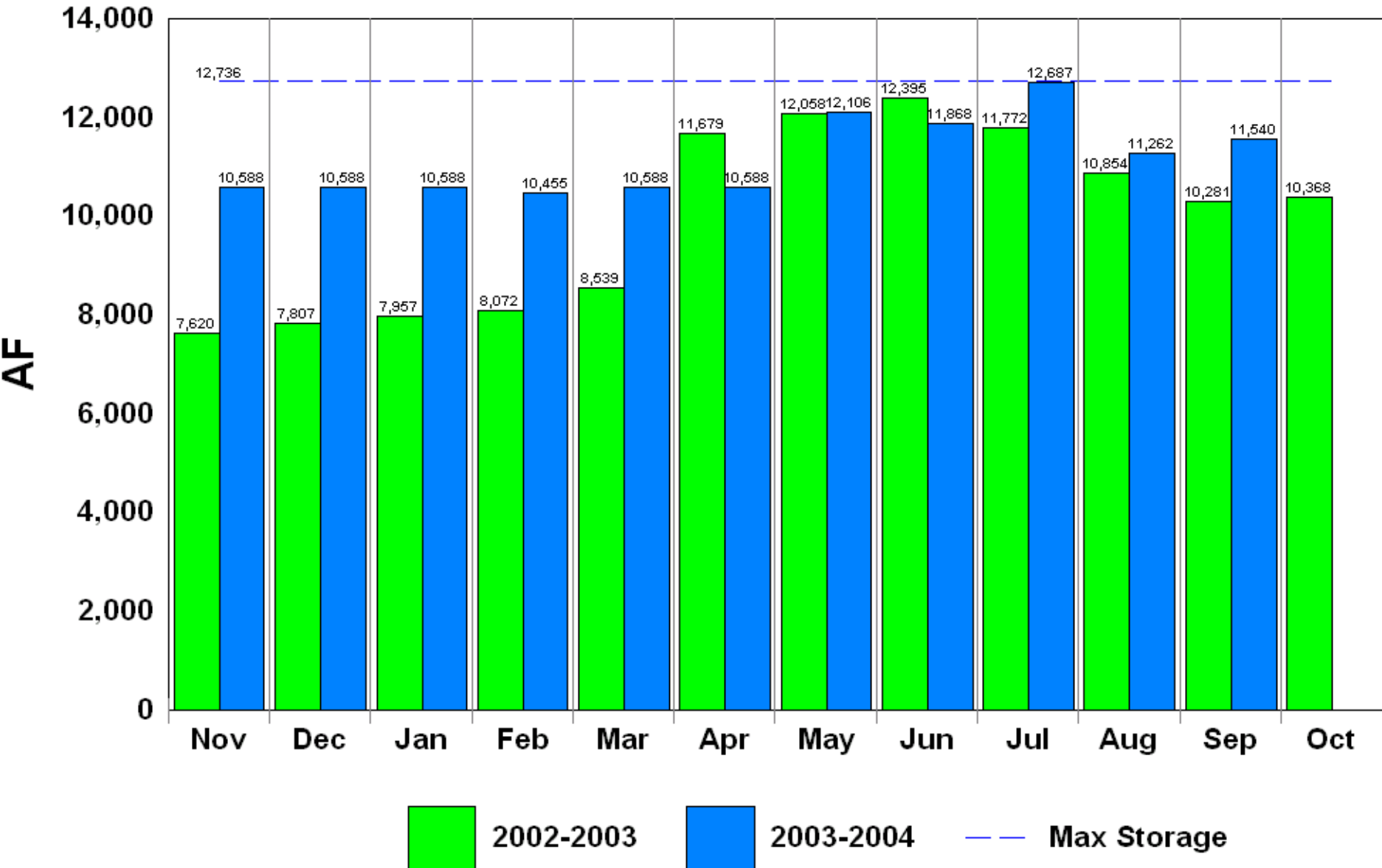
# Marshall Lake

(Agricultural)



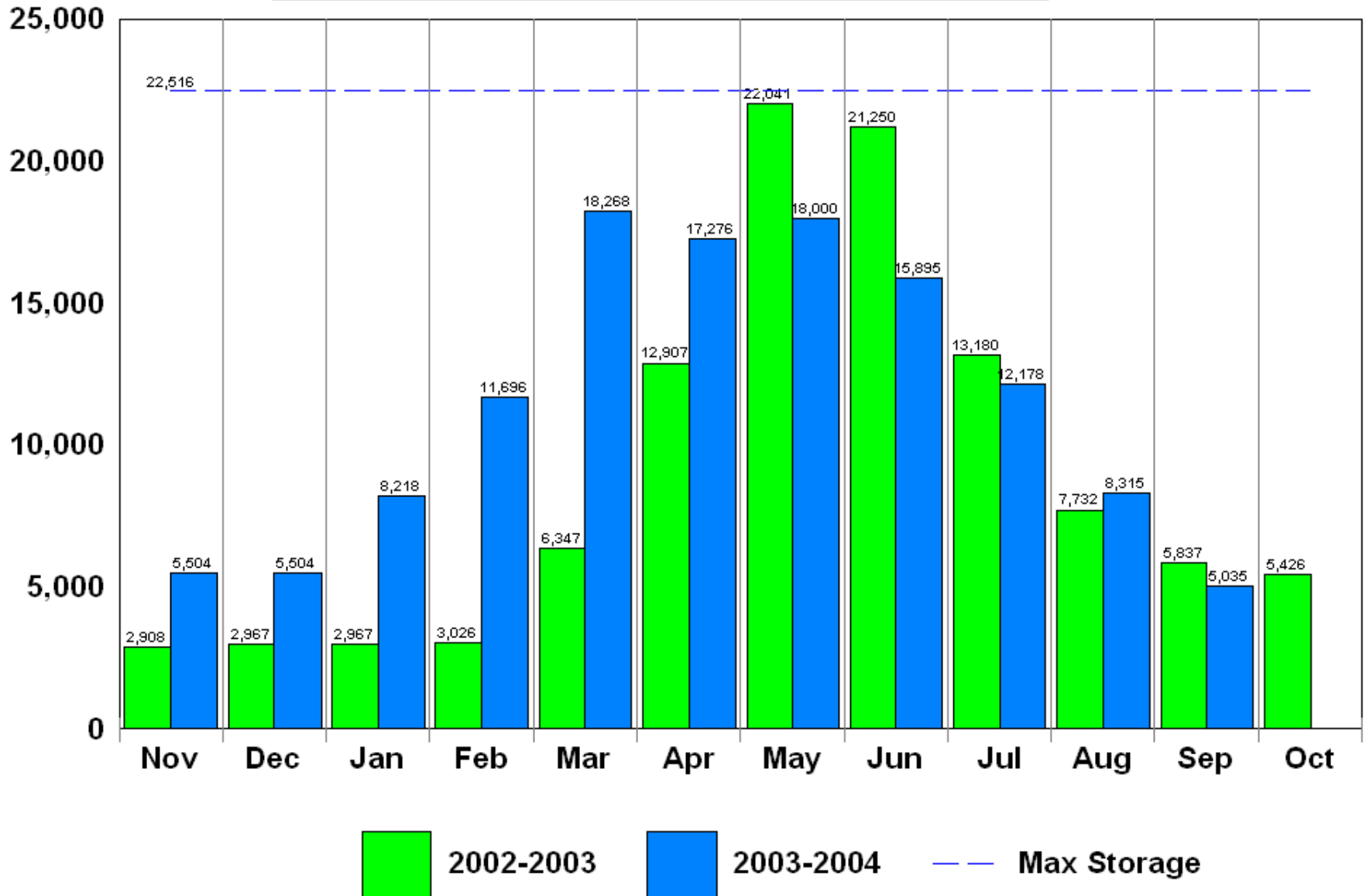
# Loveland Greeley Reservoir

(Agricultural)



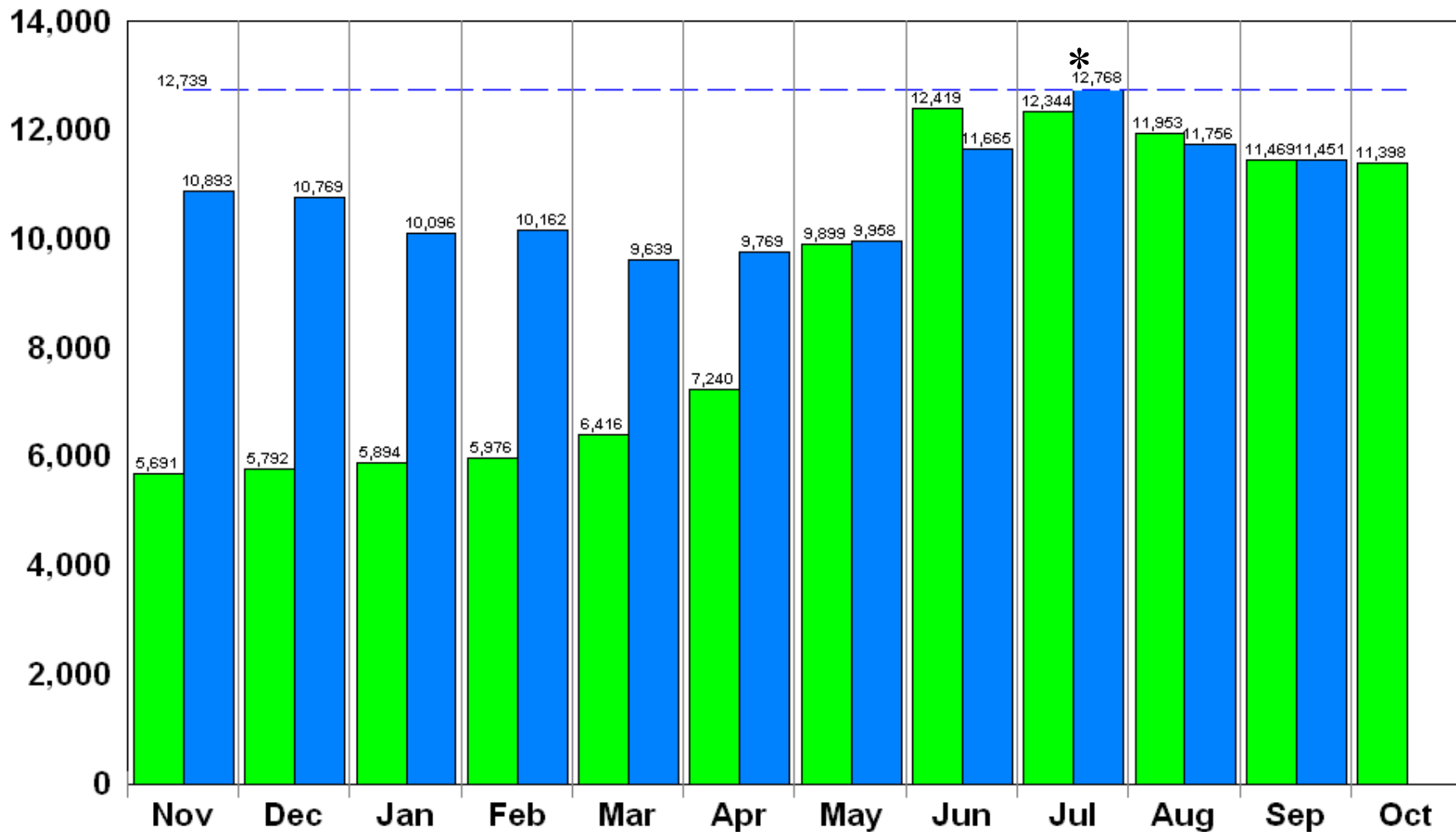
# Milton Reservoir

(Agricultural)



# Union Reservoir

(Agricultural)



\* Note: July data has been corrected.



2002-2003

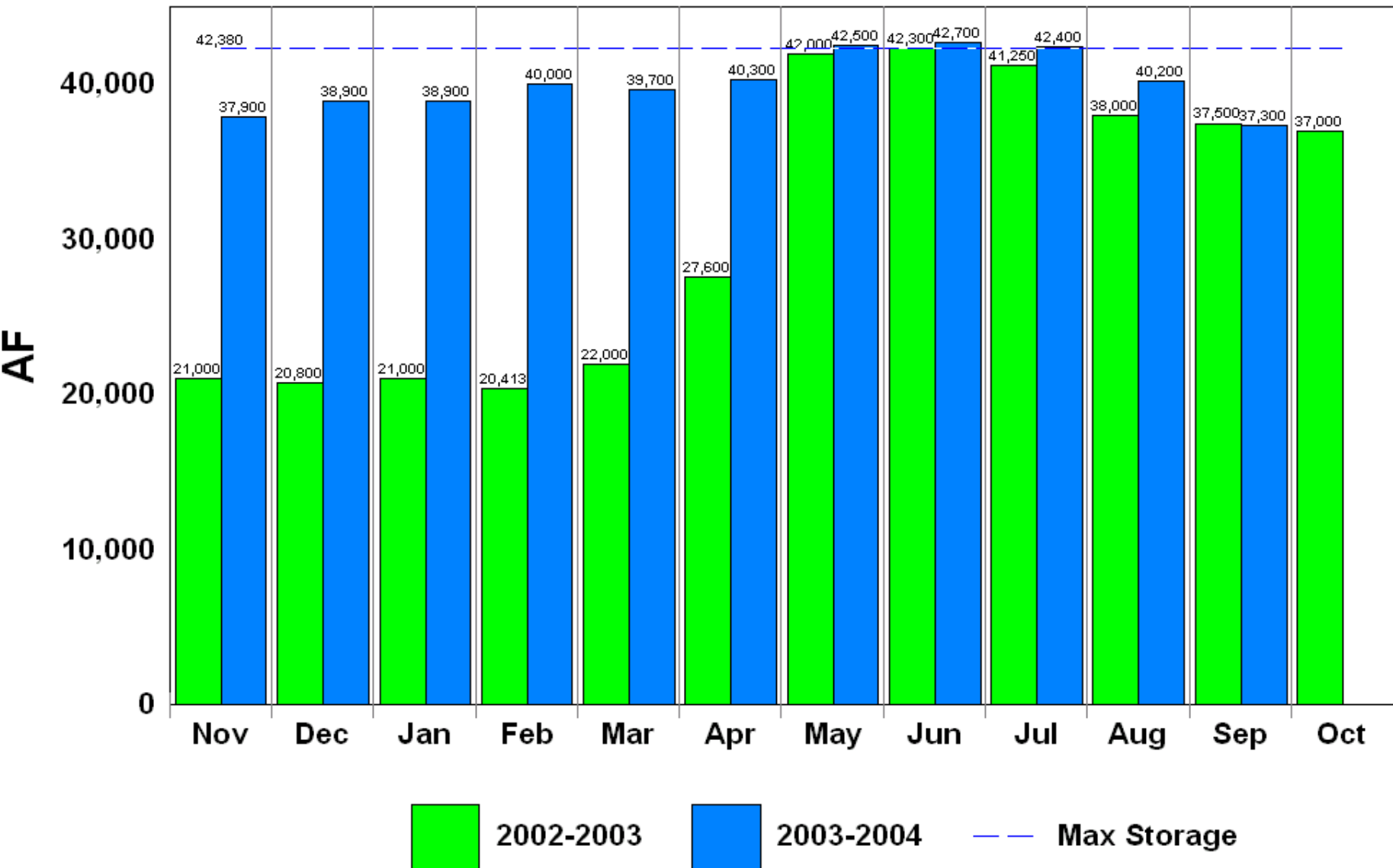


2003-2004

— — Max Storage

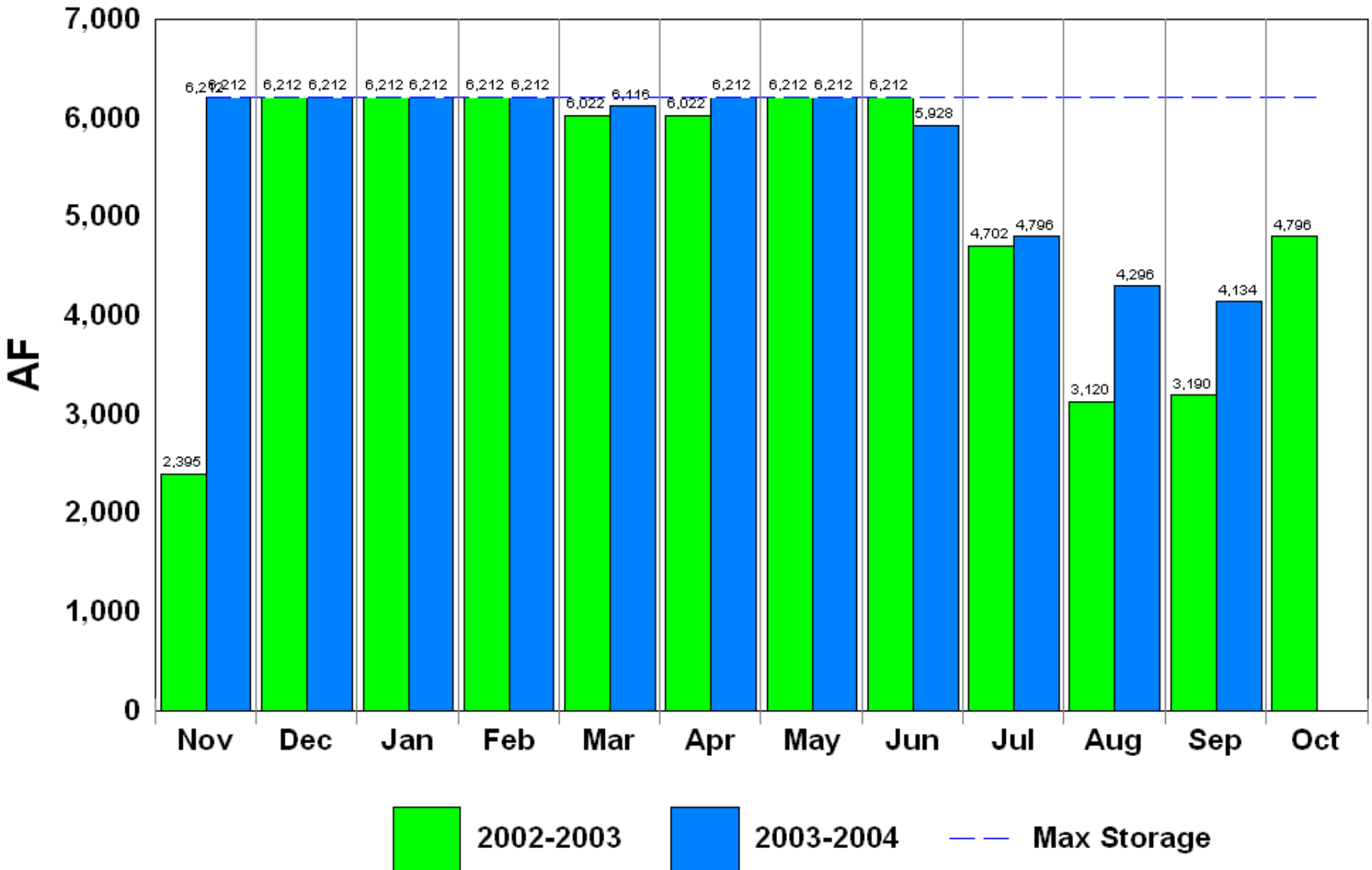
# Standley Lake

(Agricultural)



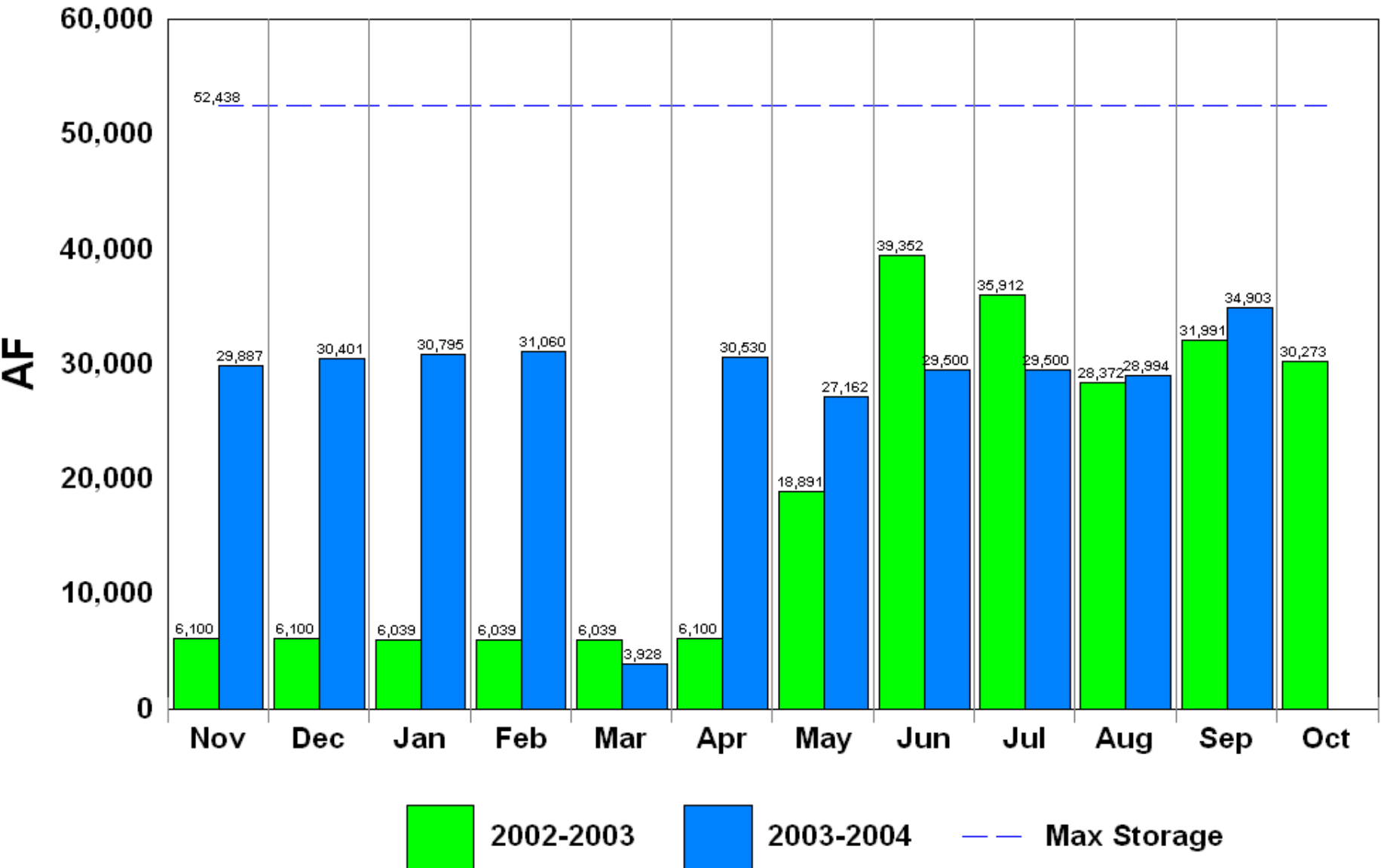
# Lower Latham Reservoir

(Agricultural)



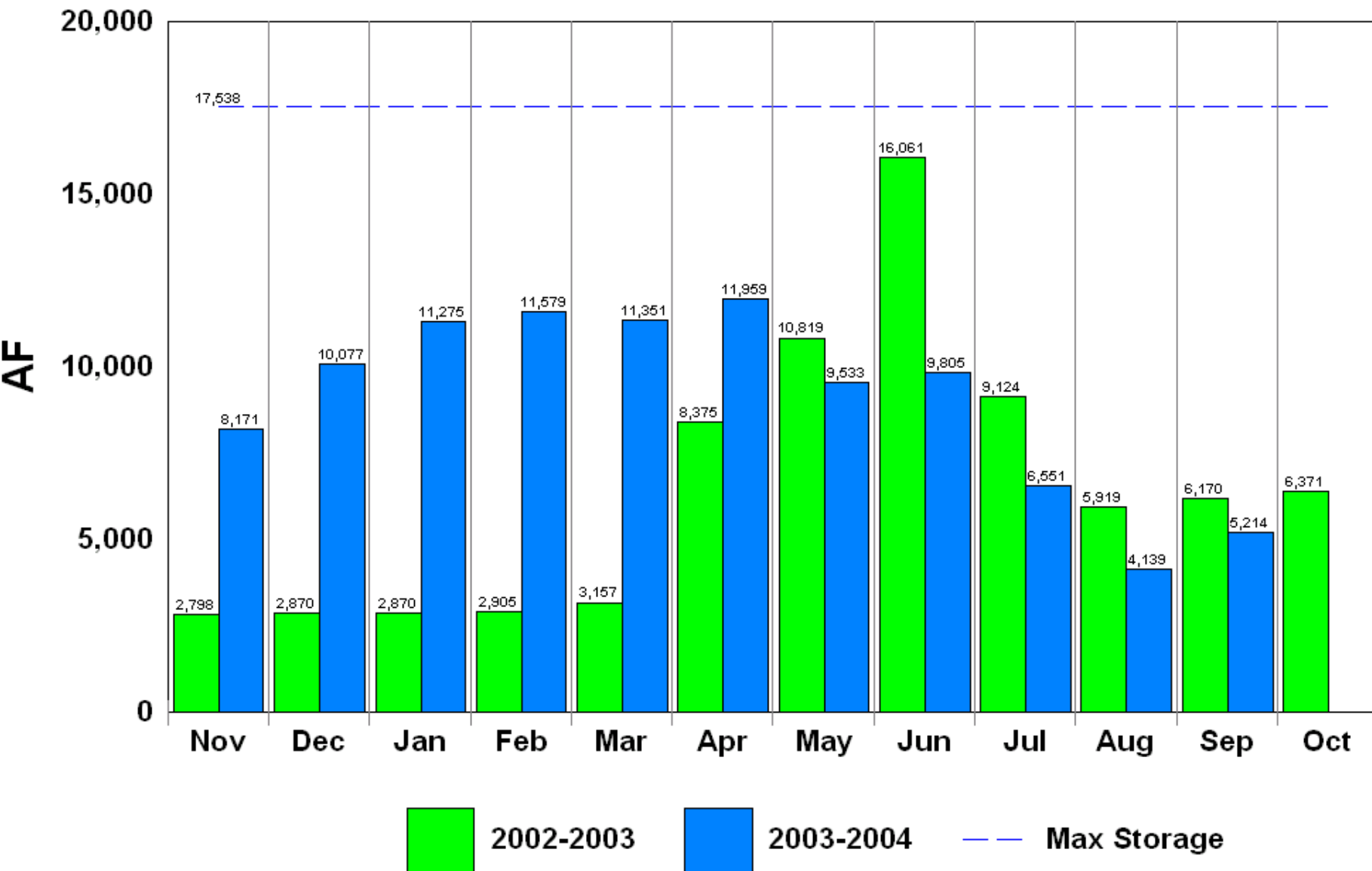
# Boyd Lake

(Agricultural)



# Windsor Reservoir

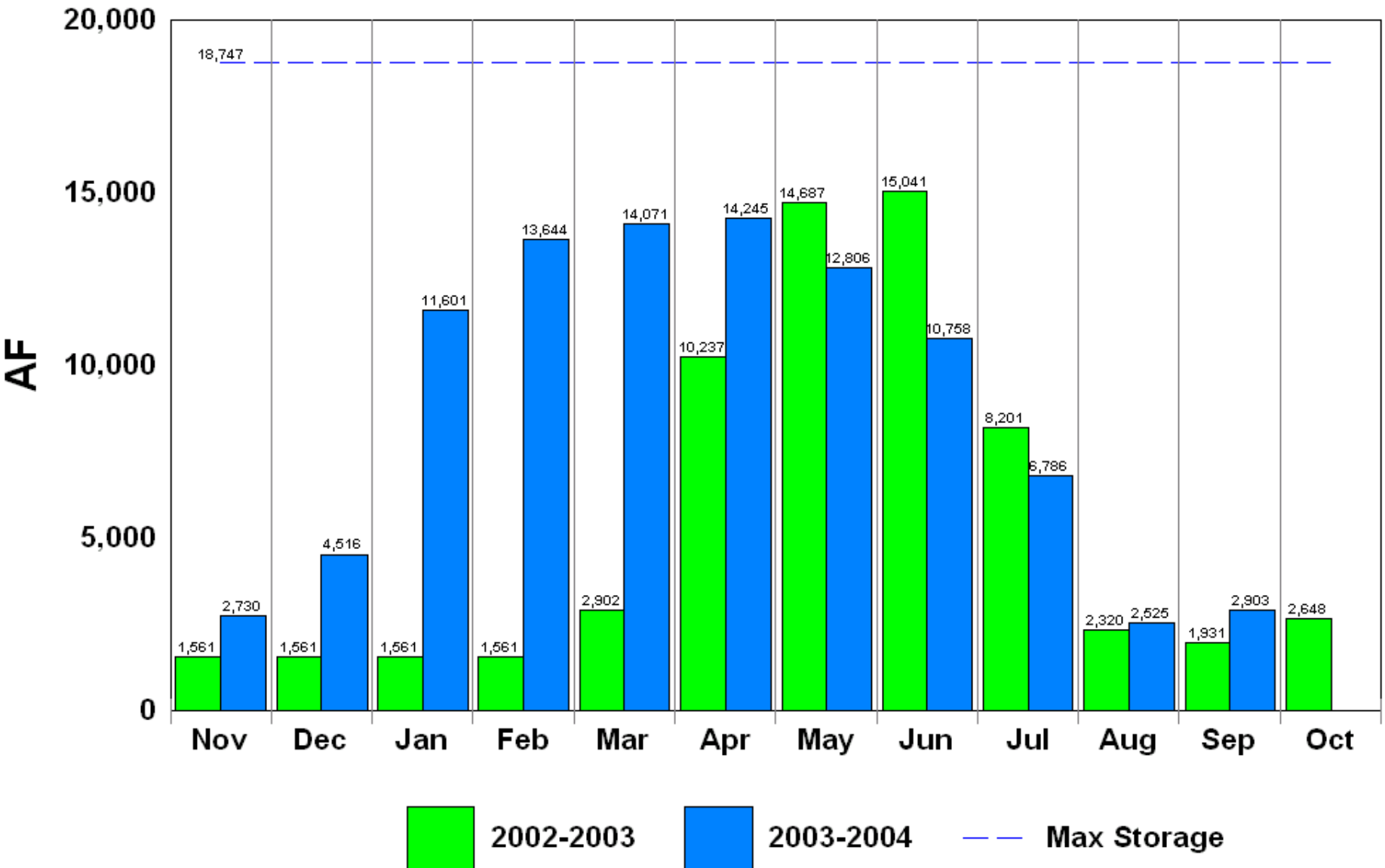
(Agricultural)





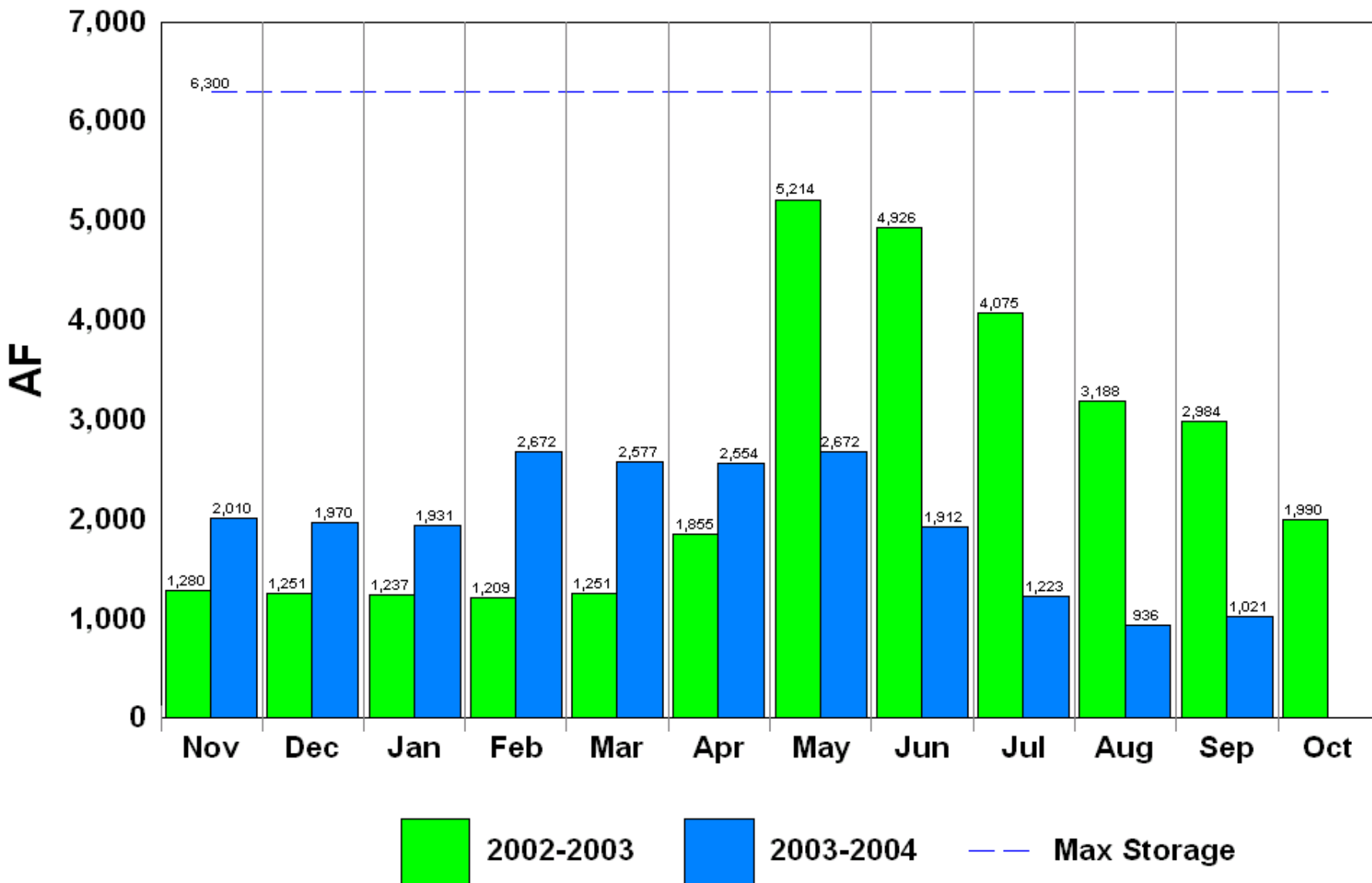
# Horse Creek Reservoir

(Agricultural)



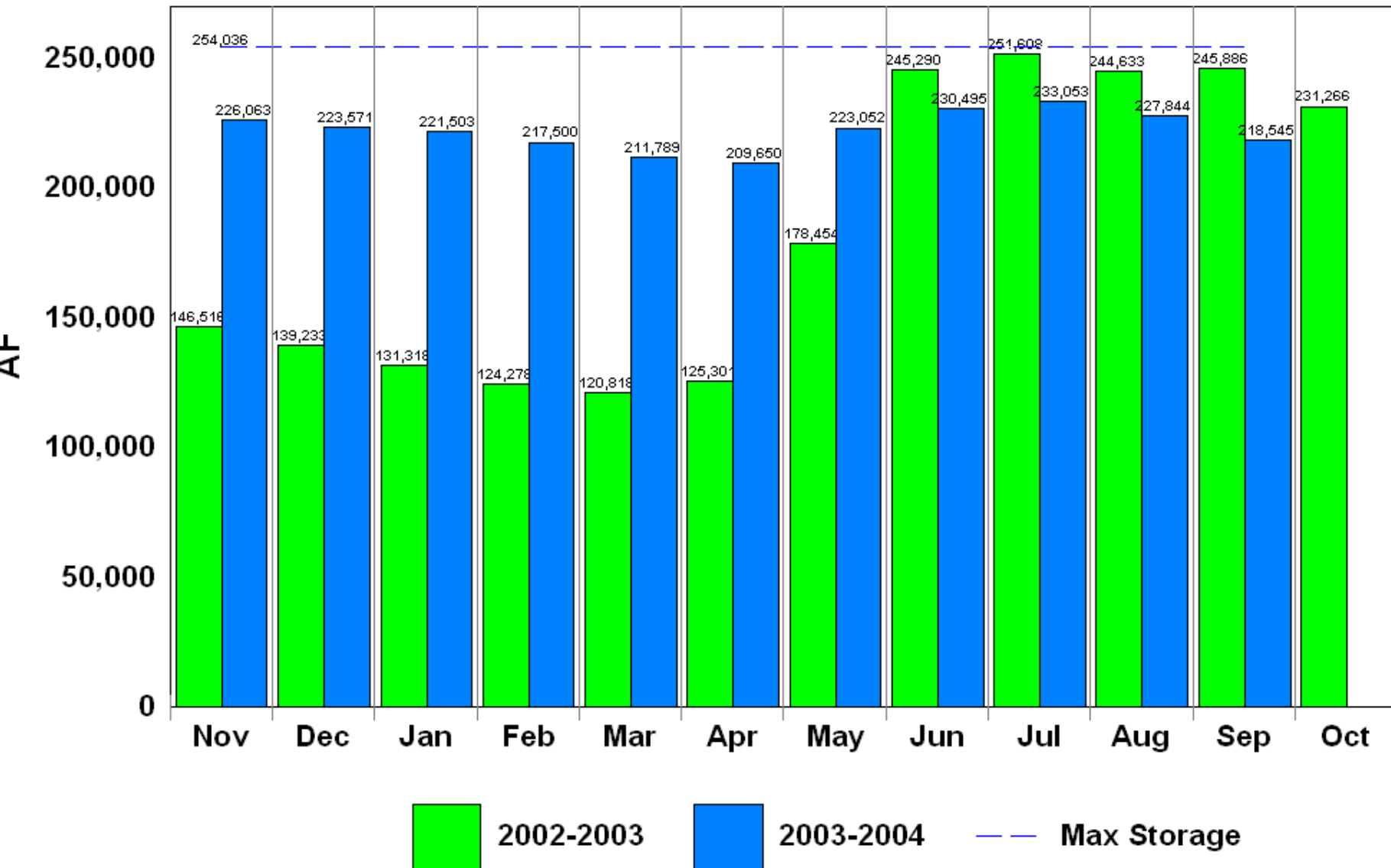
# Prospect Reservoir

(Agricultural)



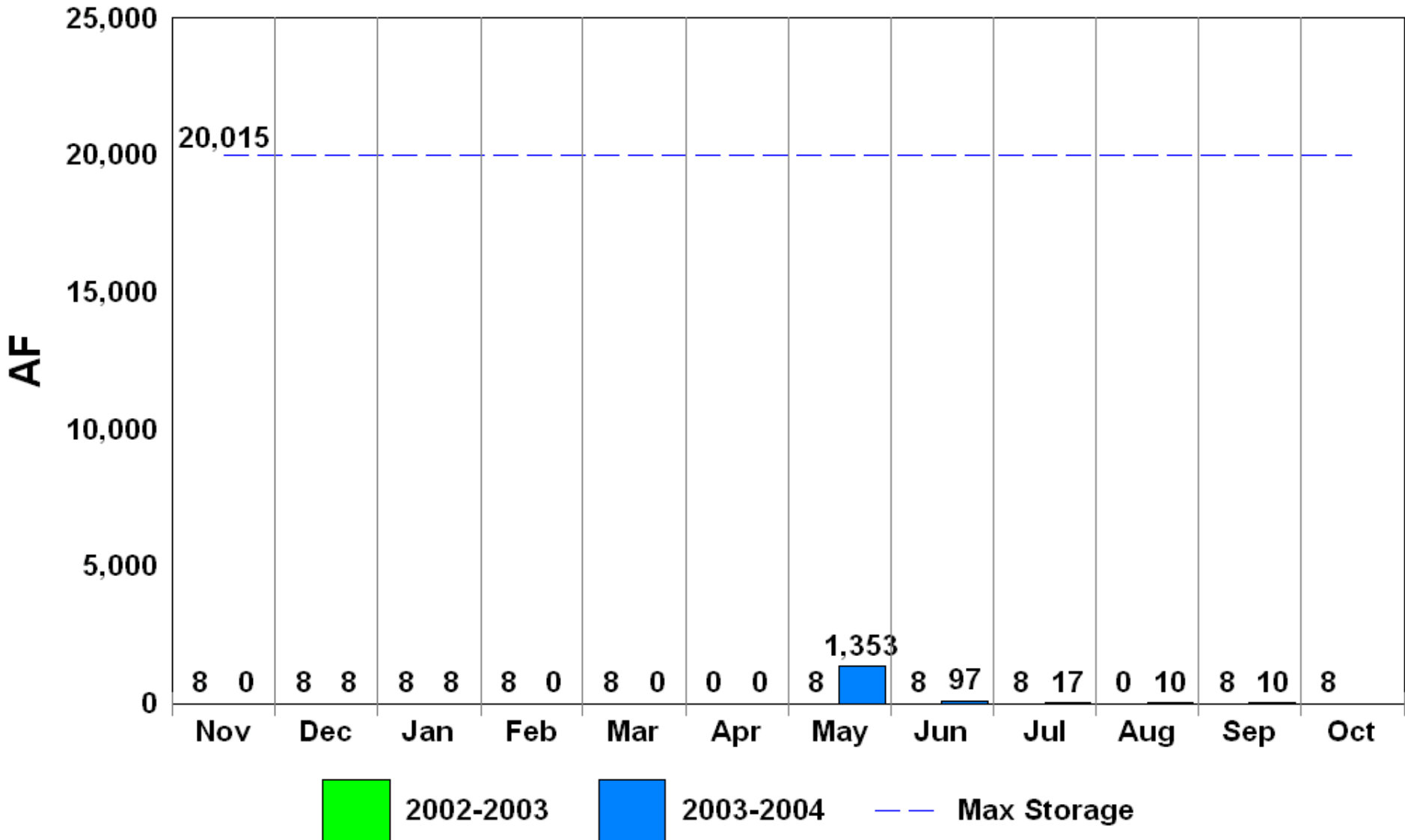
# Dillon Reservoir

(Municipal)



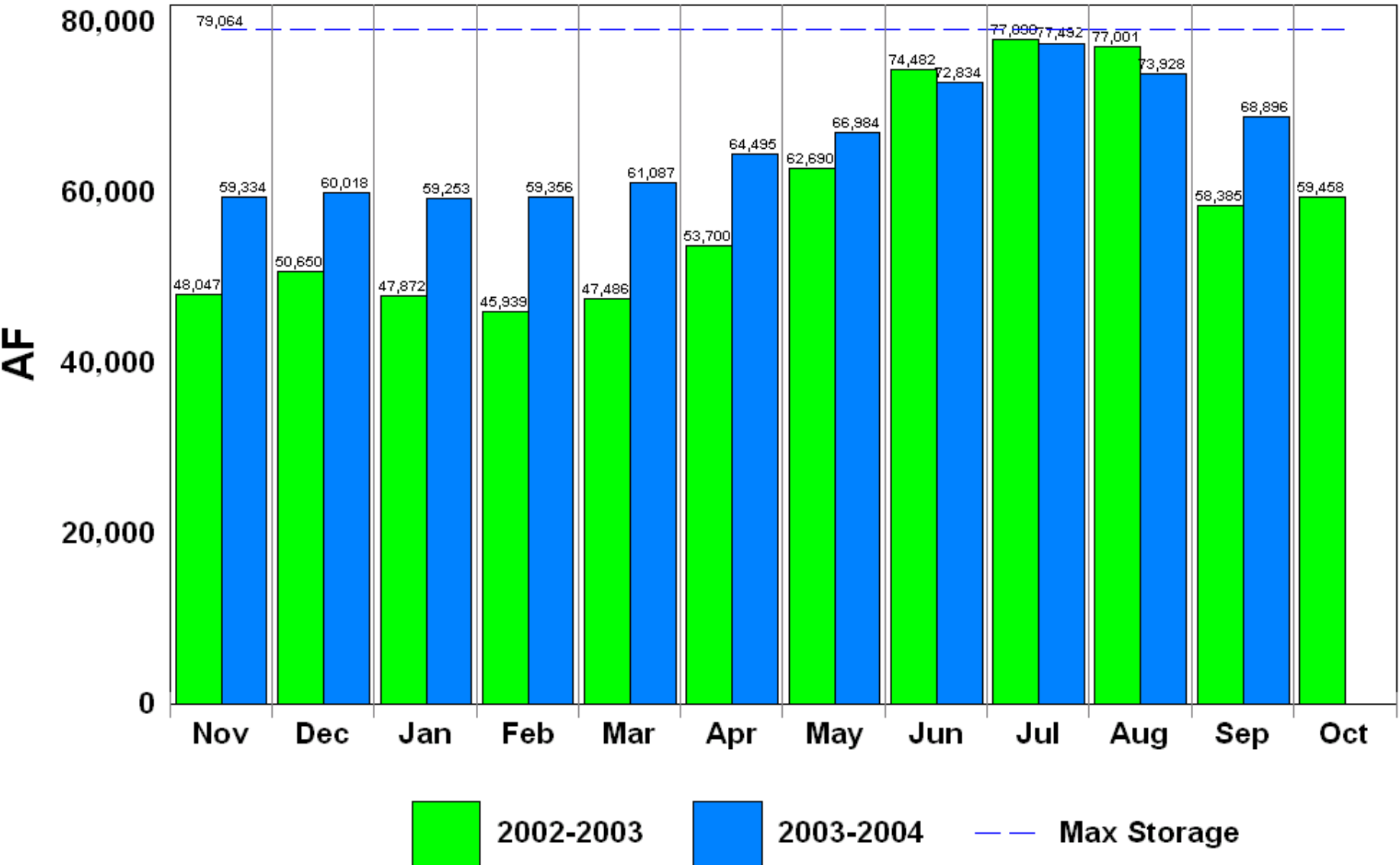
# Antero Reservoir

(Municipal)



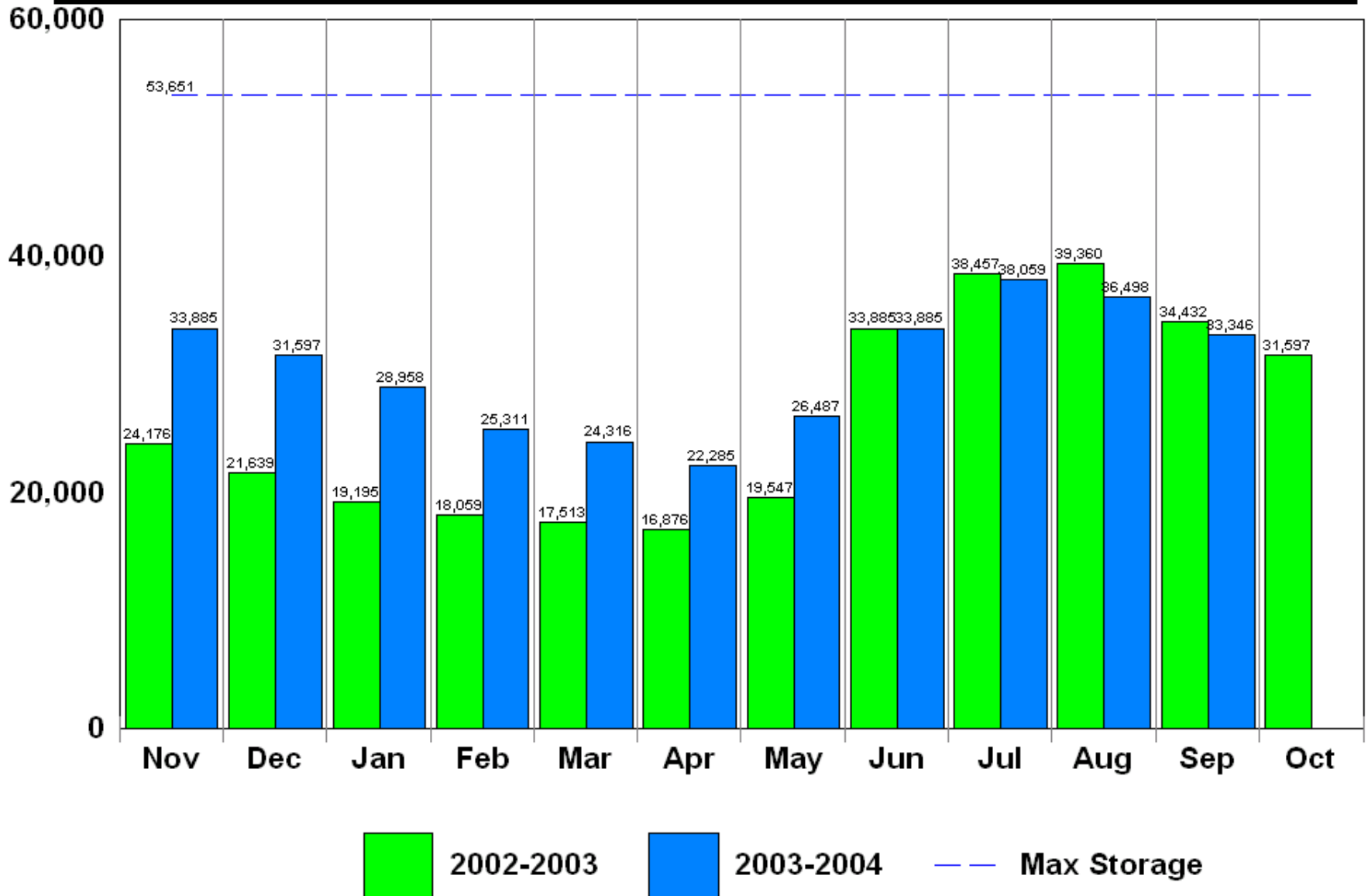
# Cheesman Reservoir

(Municipal)



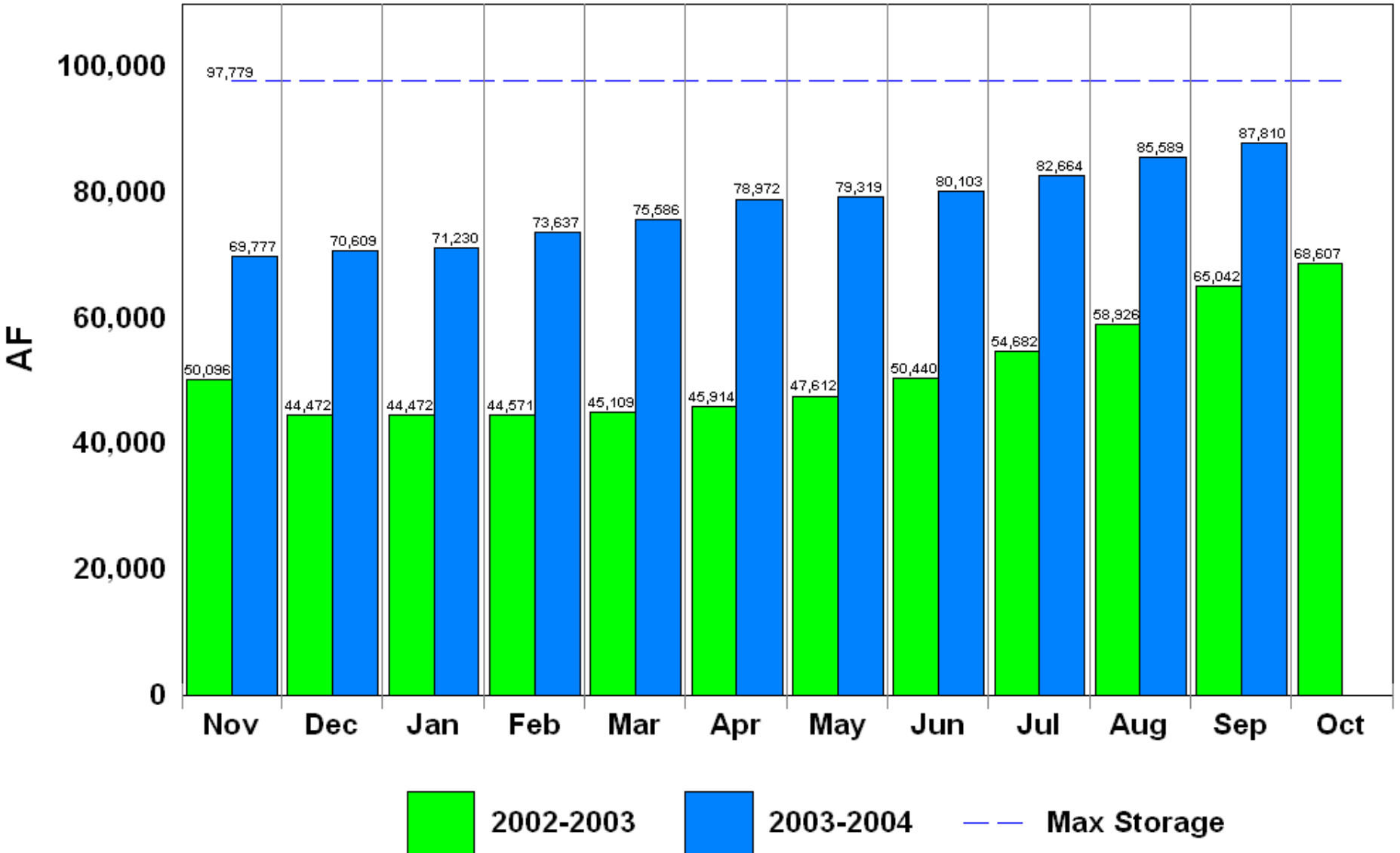
# Spinney Mountain Reservoir

(Municipal)

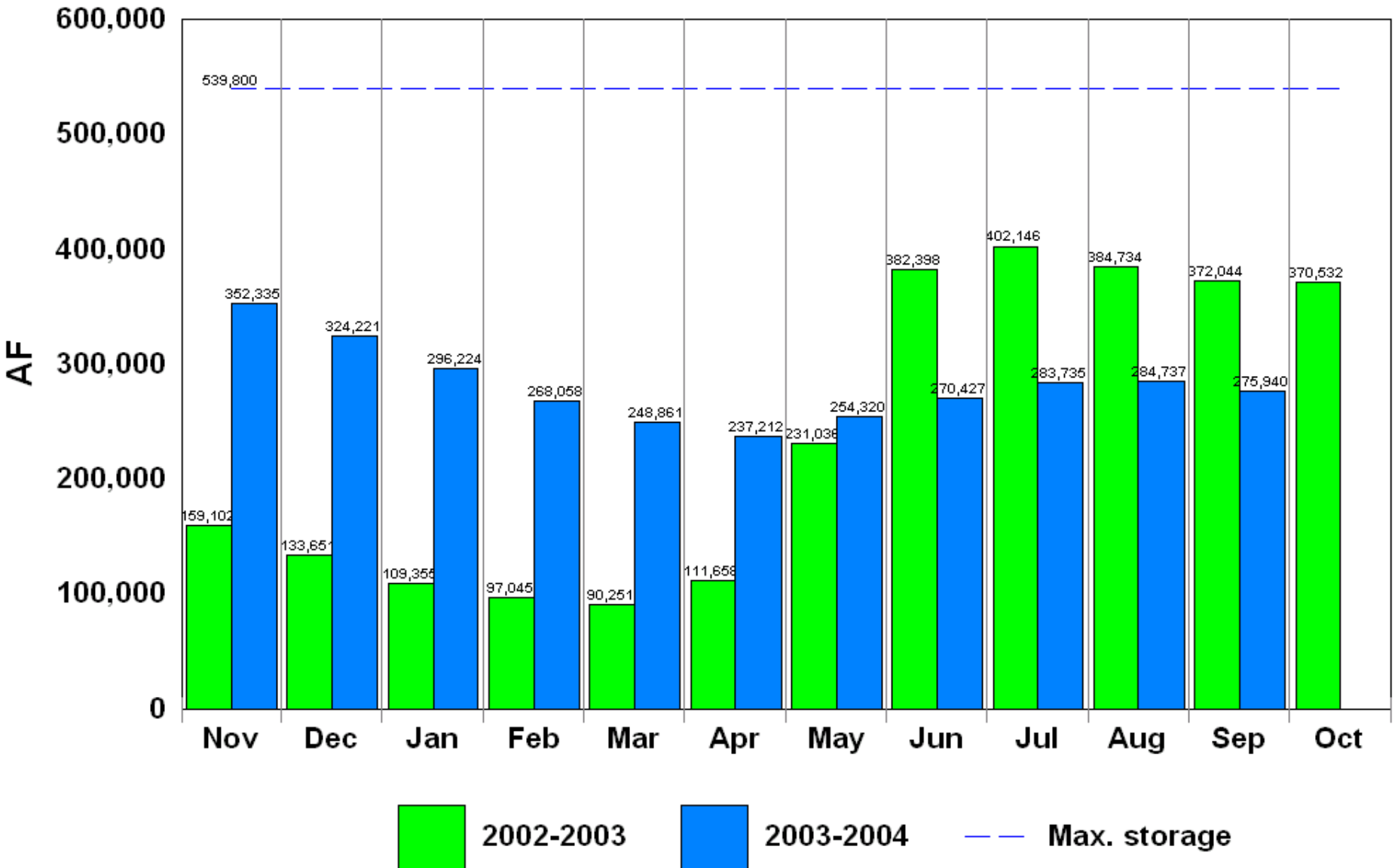


# Eleven Mile Reservoir

(Municipal)



# Lake Granby







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

**After 24 years with the  
Division of Water  
Resources I am leaving  
to pursue other  
engineering interests.**

**J. H. Lochhead**

**It's been a pleasure.**