



South Platte Summary

April 2004

By John Lochhead for The
Colorado Division of Water
Resources

Lakewood Storm Sewer

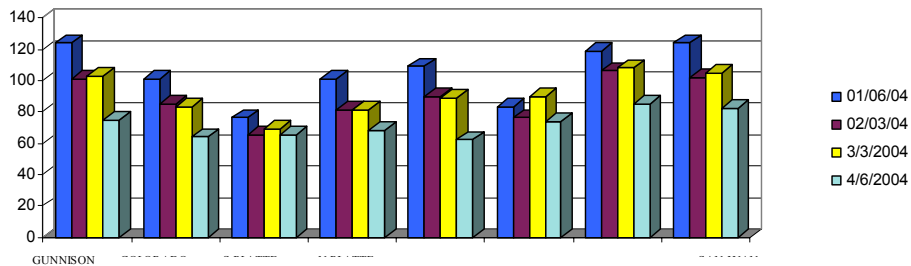
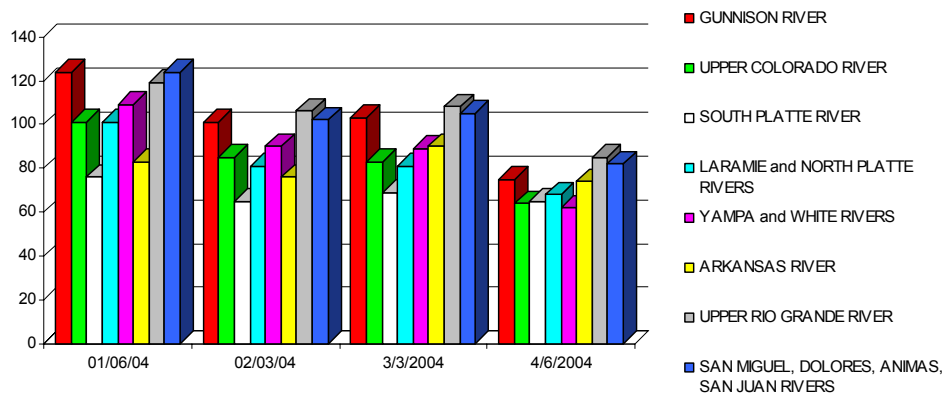
SNOTEL COURSE DATA

PRELIMINARY

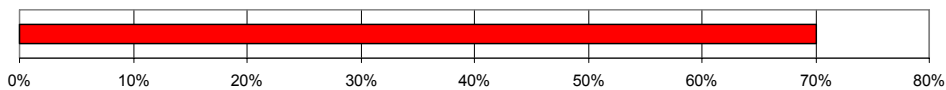
SNOW WATER EQUIVALENT

PERCENT OF AVERAGE

| BASINS | 01/06/04 | 02/03/04 | 3/3/2004 | 4/6/2004 |
|--|----------|----------|----------|----------|
| GUNNISON RIVER | 124 | 101 | 103 | 75 |
| UPPER COLORADO RIVER | 101 | 85 | 83 | 64 |
| SOUTH PLATTE RIVER | 76 | 65 | 69 | 65 |
| LARAMIE and NORTH PLATTE RIVERS | 101 | 81 | 81 | 68 |
| YAMPA and WHITE RIVERS | 109 | 90 | 89 | 62 |
| ARKANSAS RIVER | 83 | 76 | 90 | 74 |
| UPPER RIO GRANDE RIVER | 119 | 106 | 108 | 85 |
| SAN MIGUEL, DOLORES, ANIMAS, SAN JUAN RIVERS | 124 | 102 | 105 | 82 |



STATEWIDE 70% OF AVERAGE APR. 06, 2004



South Platte River Monthly Means, Historic, Max, Min.

South Platte River at Kersey

South Platte River at Julesburg

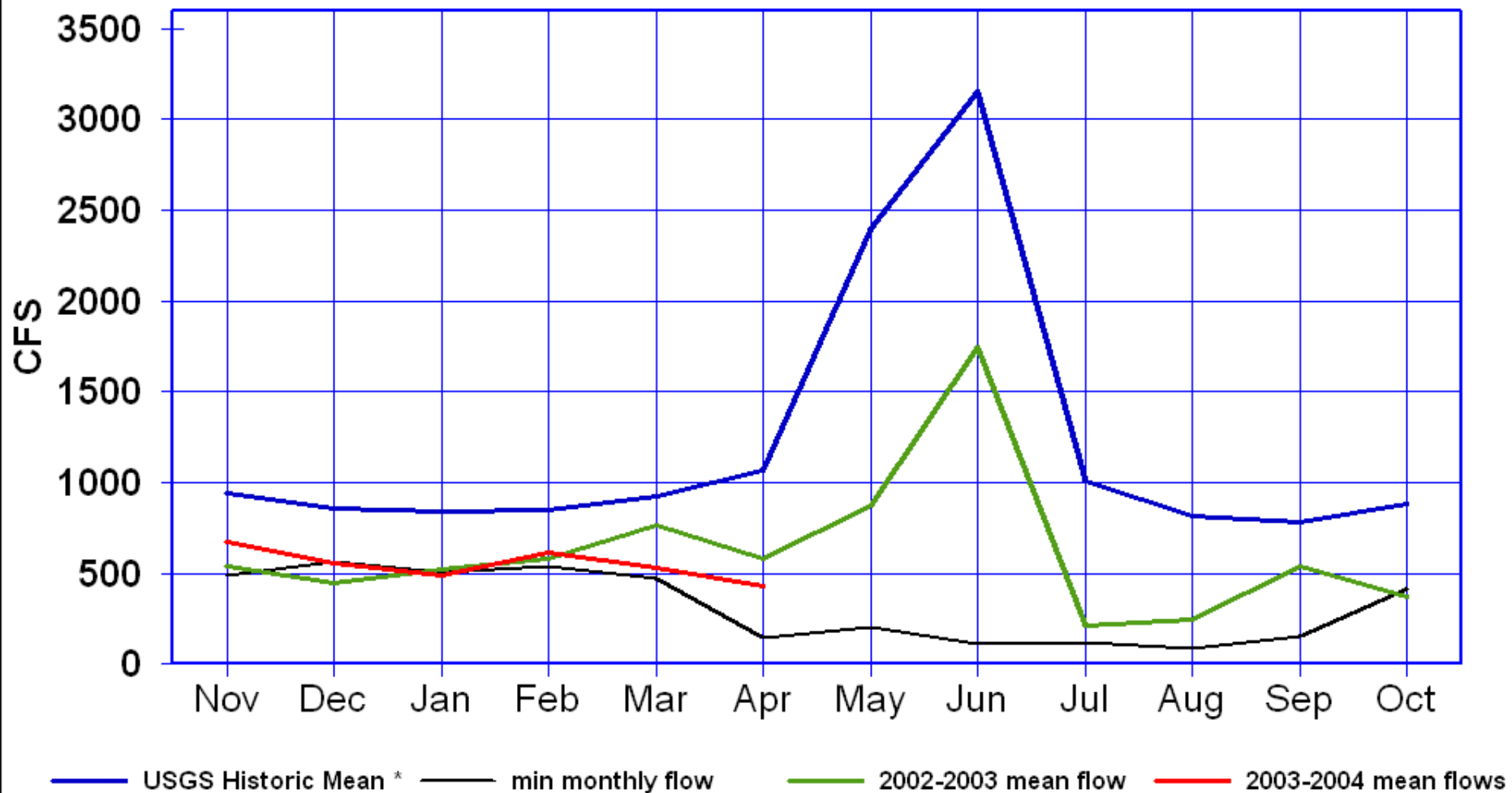
| | USGS Historic Mean * | Historic Max flow * | Year | Historic Min flow * | Year | IY 2004 mean monthly flow | Estimated Mean | | USGS Historic Mean * | Historic Max flow * | Year | Historic Min flow * | Year | IY 2004 mean monthly flow | Estimated Mean |
|-----|----------------------------|---------------------------|------|---------------------------|-------------|------------------------------------|-------------------|-----|----------------------------|---------------------------|------|---------------------------|------|------------------------------------|-------------------|
| Nov | 944 | 2585 | 1985 | 488 | 1978 | 671 | | Nov | 356 | 2358 | 1985 | 23 | 1911 | 19 | |
| Dec | 856 | 1337 | 1985 | 568 | 1982 | 557 | | Dec | 419 | 1371 | 1985 | 18.8 | 1912 | 19 | * |
| Jan | 836 | 1434 | 1984 | 503 | 1982 | 485 | | Jan | 535 | 1571 | 1998 | 89.9 | 1965 | 63 | * |
| Feb | 849 | 1641 | 1984 | 540 | 1978 | 615 | | Feb | 616 | 1864 | 1930 | 78.9 | 1935 | 54 | * |
| Mar | 920 | 1852 | 1983 | 473 | 1982 | 528 | | Mar | 555 | 2200 | 1939 | 56.9 | 1904 | 19 | |
| Apr | 1062 | 3894 | 1983 | 144 | 1982 | 432 | | Apr | 550 | 2808 | 1983 | 17.3 | 1904 | 27 | |
| May | 2401 | 13060 | 1980 | 199 | 2002 | | | May | 1064 | 9922 | 1980 | 24.1 | 1911 | | |
| Jun | 3152 | 14520 | 1983 | 113 | 1977 | | | Jun | 1489 | 12200 | 1983 | 8.33 | 1910 | | |
| Jul | 1005 | 5784 | 1983 | 115 | 2002 | | | Jul | 306 | 5059 | 1983 | 2.15 | 1903 | | |
| Aug | 816 | 2783 | 1984 | 85.5 | 2002 | | | Aug | 188 | 1882 | 1997 | 2.52 | 1902 | | |
| Sep | 784 | 2079 | 1984 | 156 | 2002 | | | Sep | 249 | 1964 | 1984 | 5.6 | 1903 | | |
| Oct | 882 | 3388 | 1985 | 415 | 1978 | | | Oct | 316 | 2427 | 1985 | 5.85 | 1904 | | |

*Period of record 1976-2002

*Period of record 1902-2002

South Platte River at Kersey

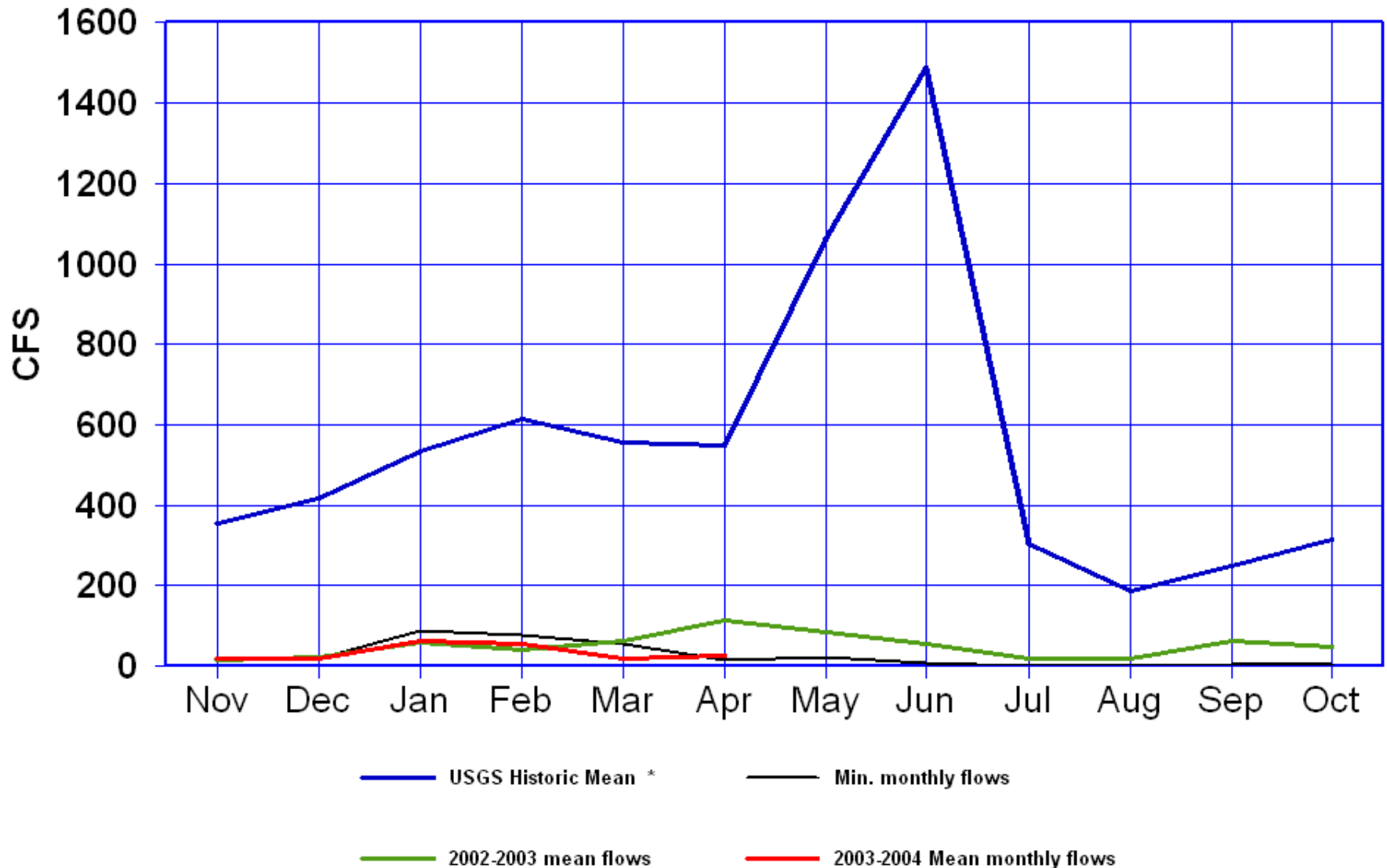
Irrigation Water Year*



*1976-2002

South Platte River at Julesburg

Irrigation Water Year*



*1902-2002

COLORADO DIVISION OF WATER RESOURCES, DIVISION 1

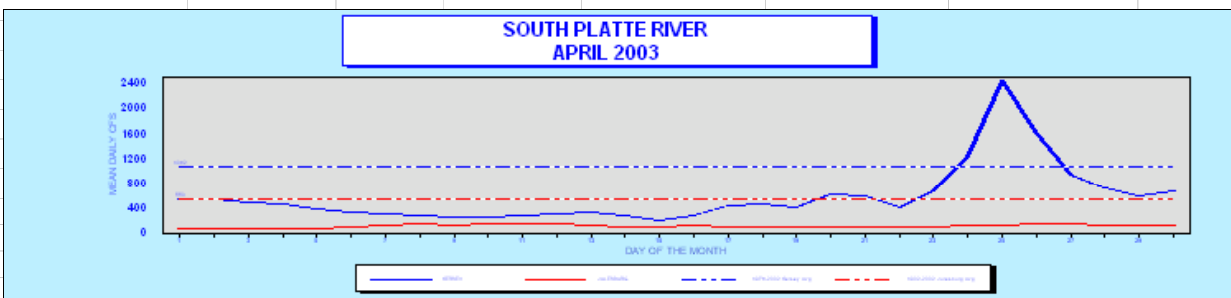
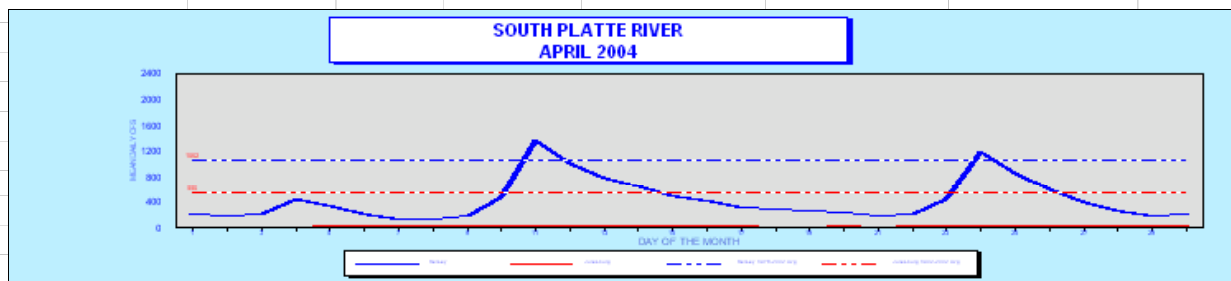
MONTH OF APRIL 2004

06-May

| 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 | 22,520 | 21,650 | 64 | (870) | -4% | 96% | 99% | 0 |
| NORTH STERLING | 73,730 | 61,910 | 60,105 | 64 | (1,805) | -3% | 82% | 73% | 0 |
| PREWITT | 28,500 | 12,890 | 12,574 | 64 | (316) | -2% | 44% | 57% | 0 |
| JACKSON | 27,257 | 25,966 | 24,900 | 1 | (1,066) | -4% | 91% | 93% | 0 |
| EMPIRE | 37,700 | 24,988 | 21,131 | 1 | (3,857) | -15% | 56% | 61% | 0 |
| RIVERSIDE | 63,113 | 59,002 | 50,452 | 1 | (8,550) | -14% | 80% | 86% | 0 |
| BARR LAKE | 31,652 | 19,480 | 19,776 | 2 | 296 | 2% | 62% | 97% | 0 |
| CHEESMAN | 79,064 | 61,087 | 64,495 | 80 | 3,408 | 6% | 82% | 68% | 0 |
| ELEVEN MILE | 97,779 | 75,586 | 78,972 | 23 | 3,386 | 4% | 81% | 47% | 0 |
| SPINNEY | 53,651 | 24,316 | 22,285 | 23 | (2,031) | -8% | 42% | 31% | 0 |
| ANTERO | 20,015 | 0 | 0 | 23 | 0 | ERR | 0% | 0% | 0 |

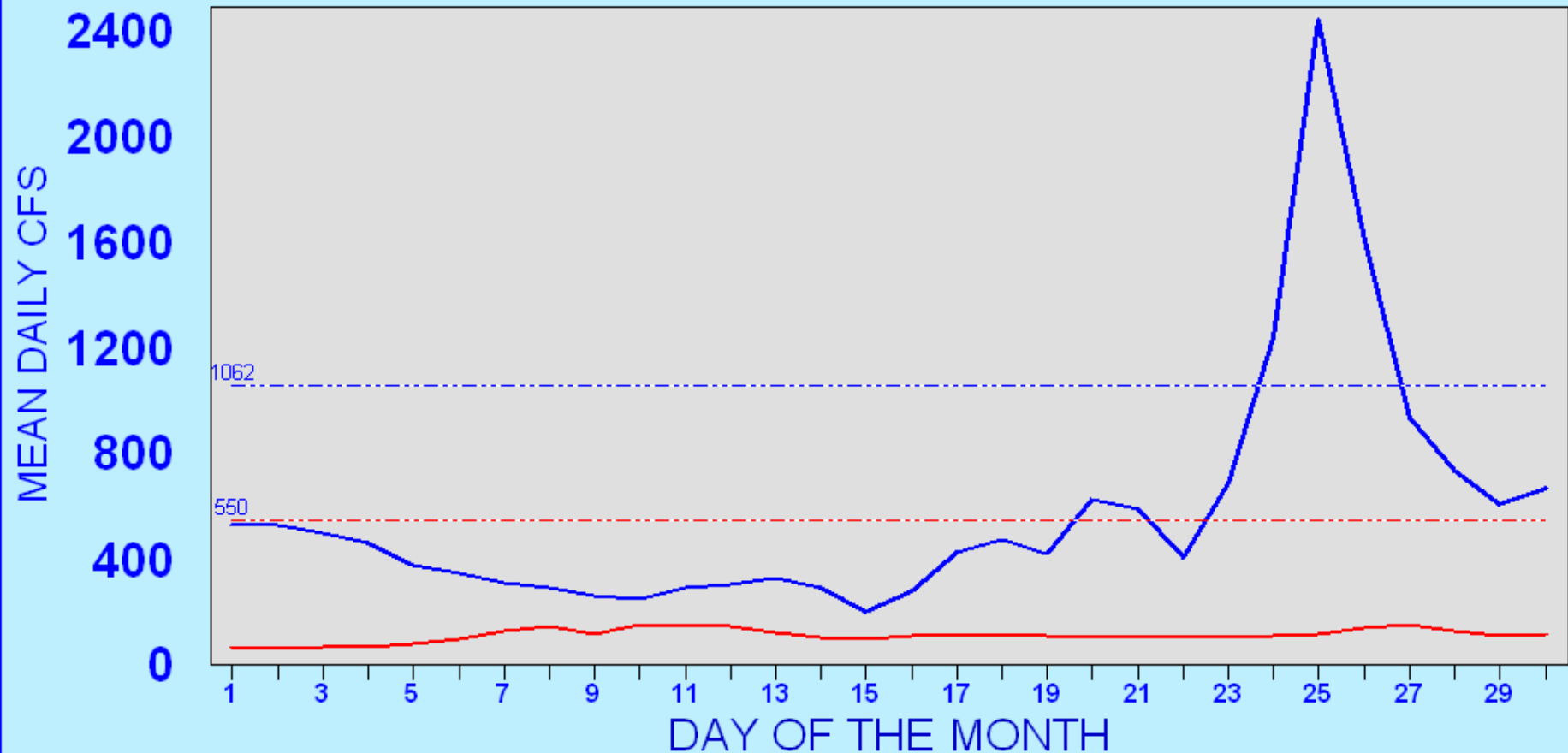
| RIVER GAGES | MEAN DAILY FLOW (CFS) |
|-----------------------------------|-----------------------|
| KERSEY | 432 |
| JULESBURG | 27 |
| THIS MONTH LAST YEAR | |
| KERSEY | 584 |
| JULESBURG | 113 |
| MEAN FOR PERIOD OF RECORD* | |
| KERSEY | 1062 |
| JULESBURG | 550 |

* 1976-2002
1902-2002



SOUTH PLATTE RIVER

APRIL 2003



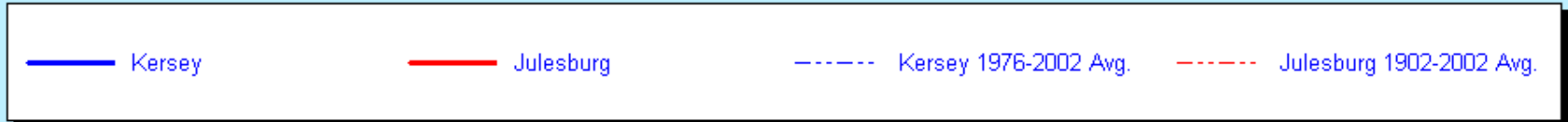
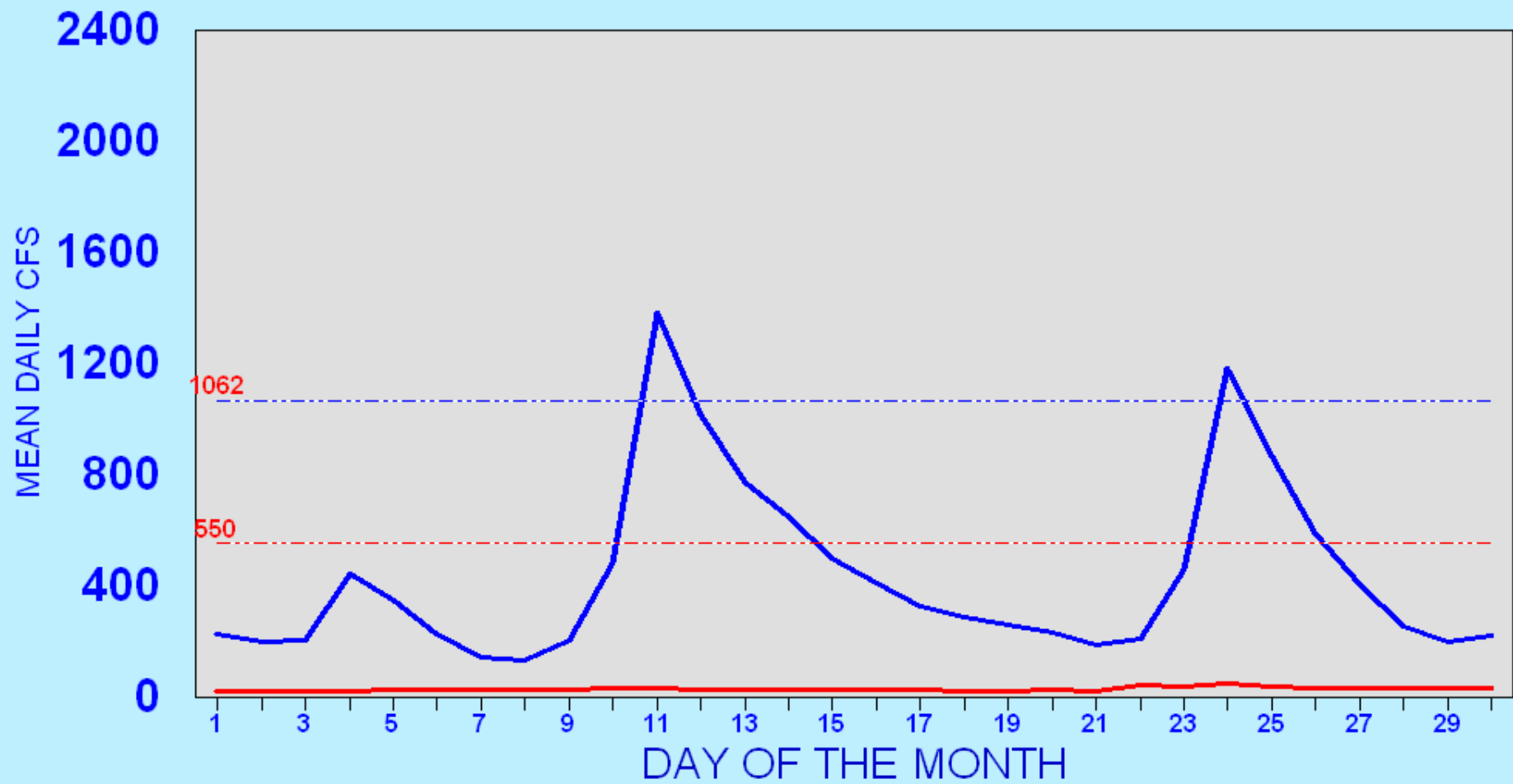
— KERSEY

— JULESBURG

- - - - - 1976-2002 Kersey Avg.

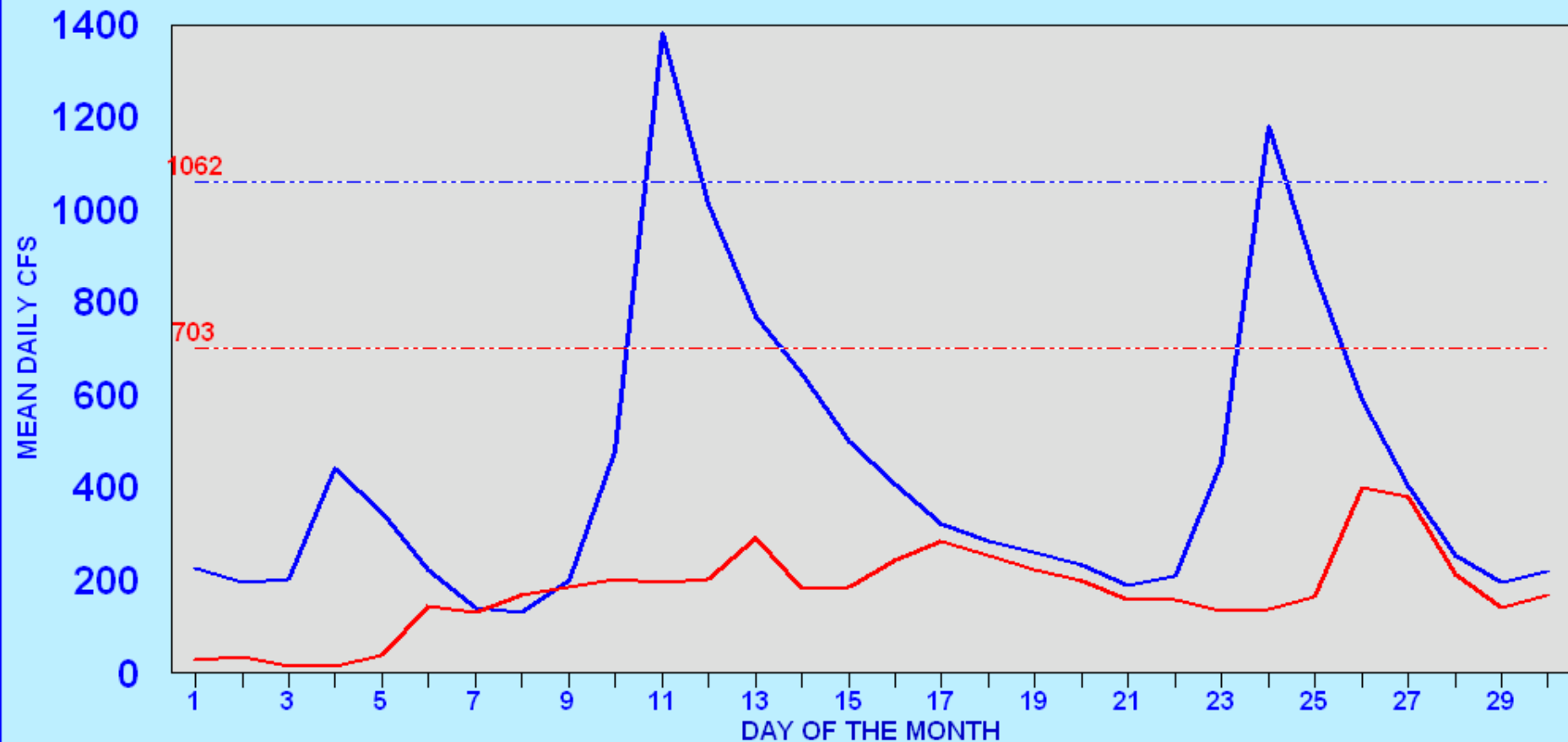
- - - - - 1902-2002 Julesburg Avg.

SOUTH PLATTE RIVER APRIL 2004



Kersey, Balzac

APRIL 2004



— Kersey

— Balzac

- - - Kersey 1976-2002 Avg.

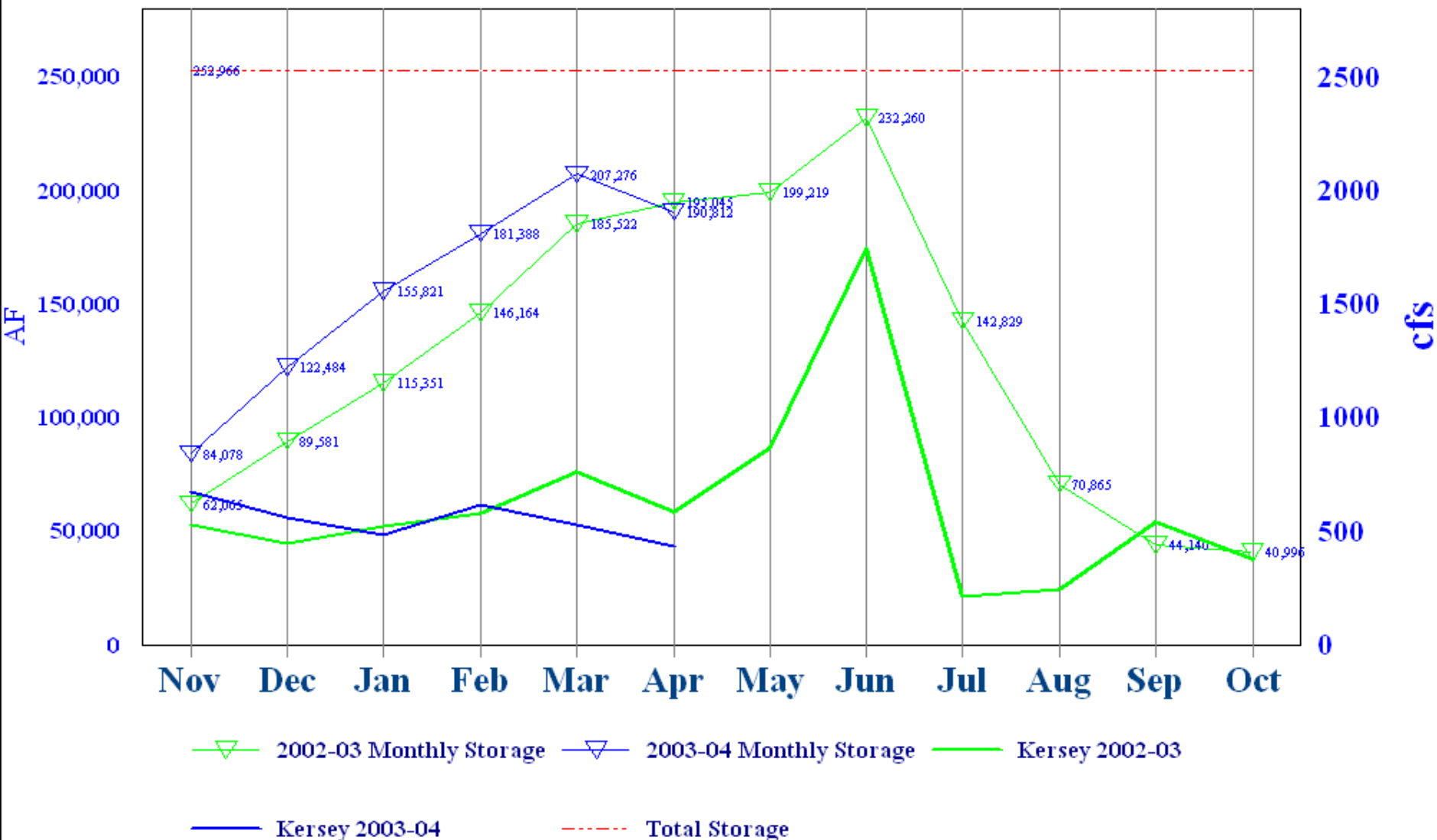
- - - Balzac 1980-2002 Avg.

Next 4 slides show Reservoir storage below and above Kersey



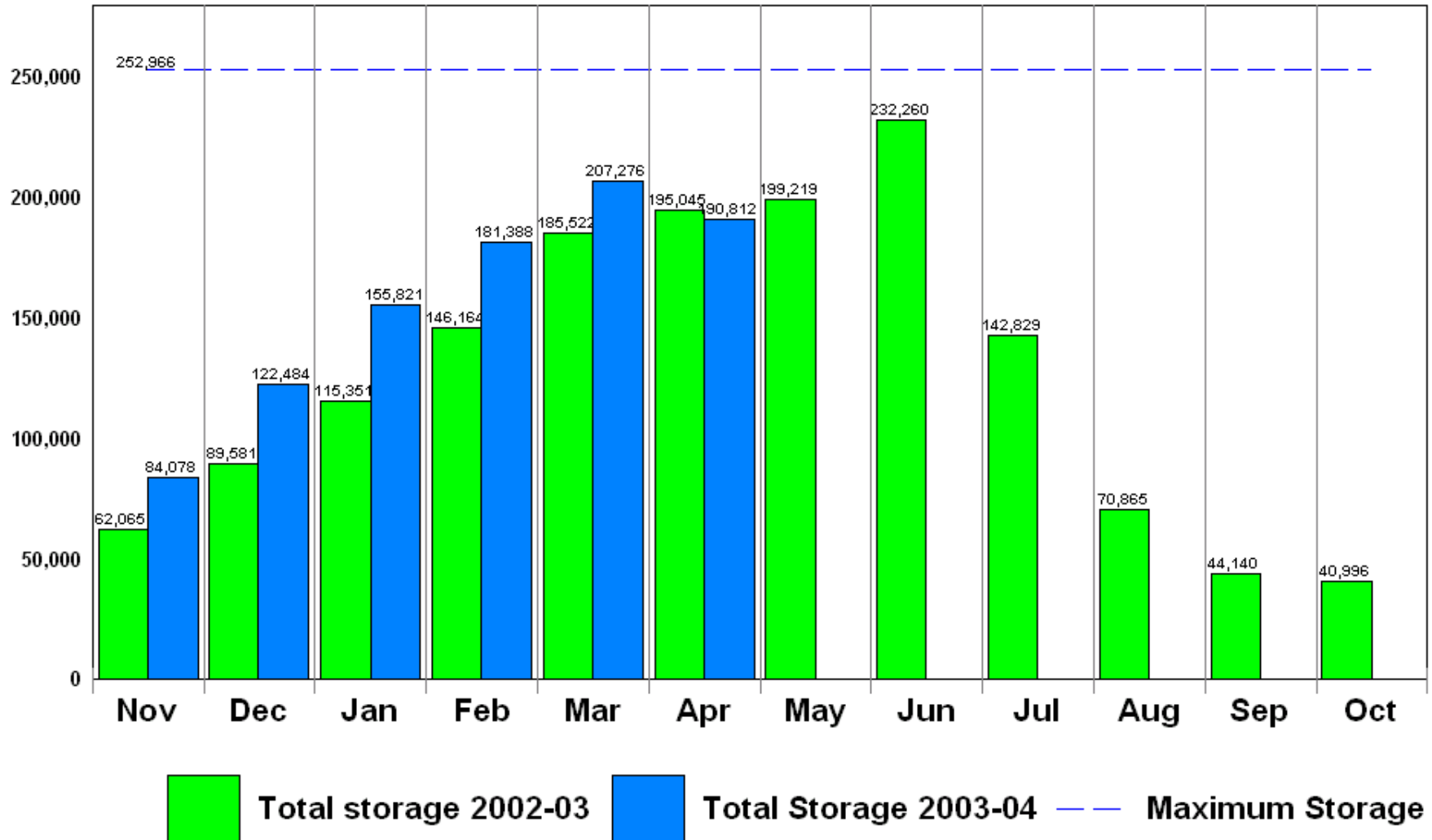
Reservoir Storage below Kersey

Selected Reservoirs*



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

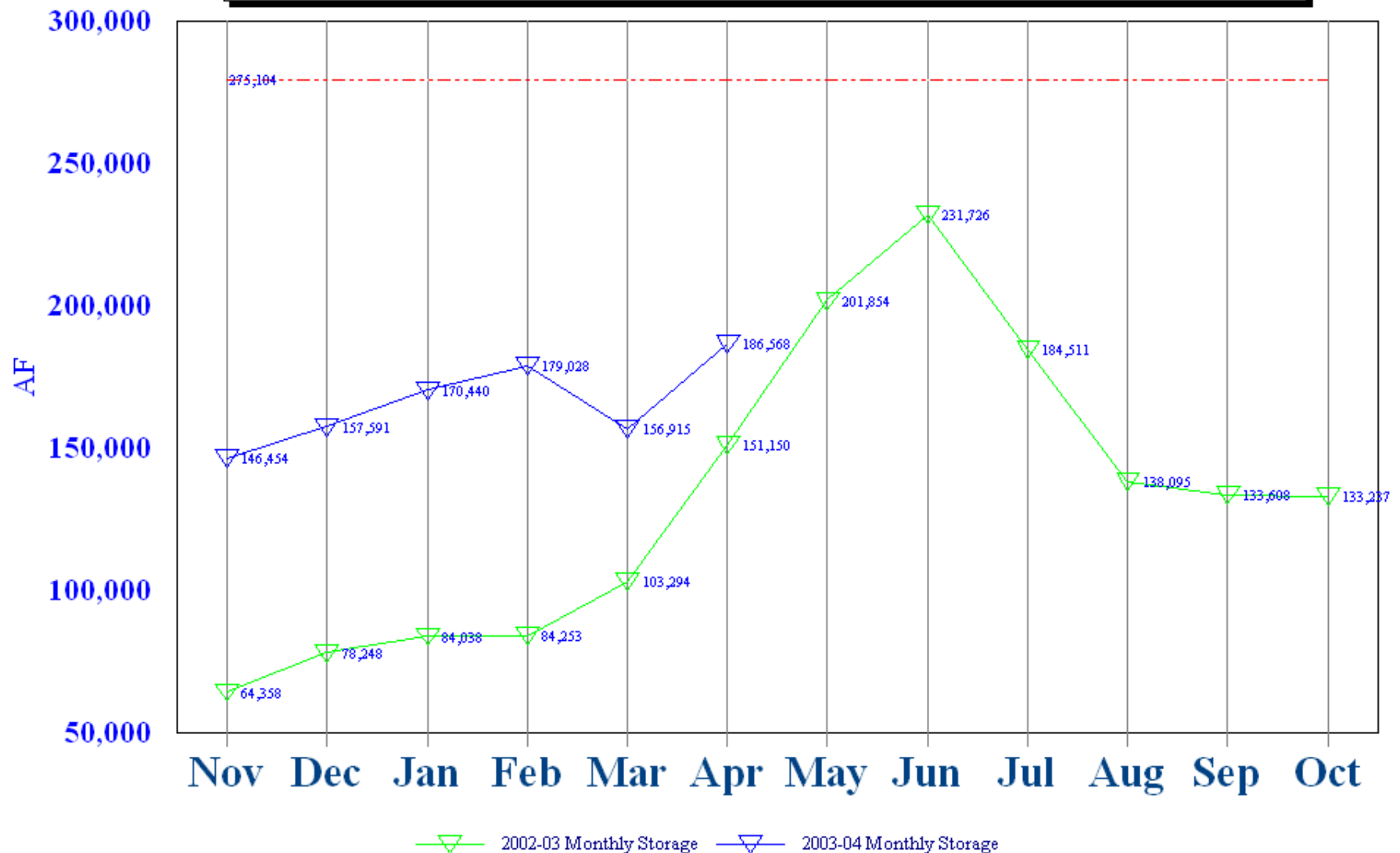
South Platte Reservoirs Storage below Kersey*



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

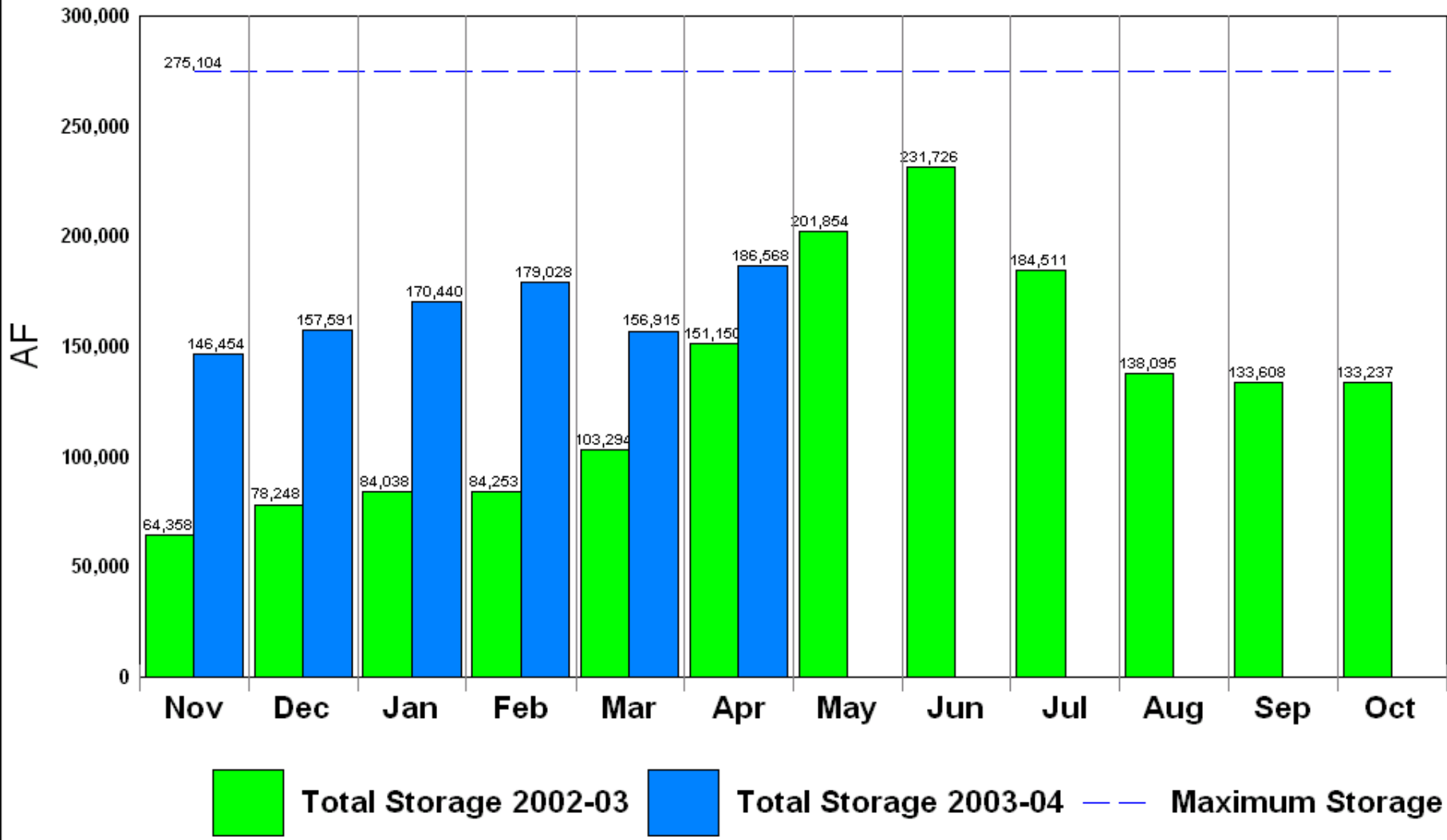
Reservoir Storage above Kersey

Selected Reservoirs*



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

South Platte Reservoirs Storage above Kersey*



Total Storage 2002-03

Total Storage 2003-04

Maximum Storage

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

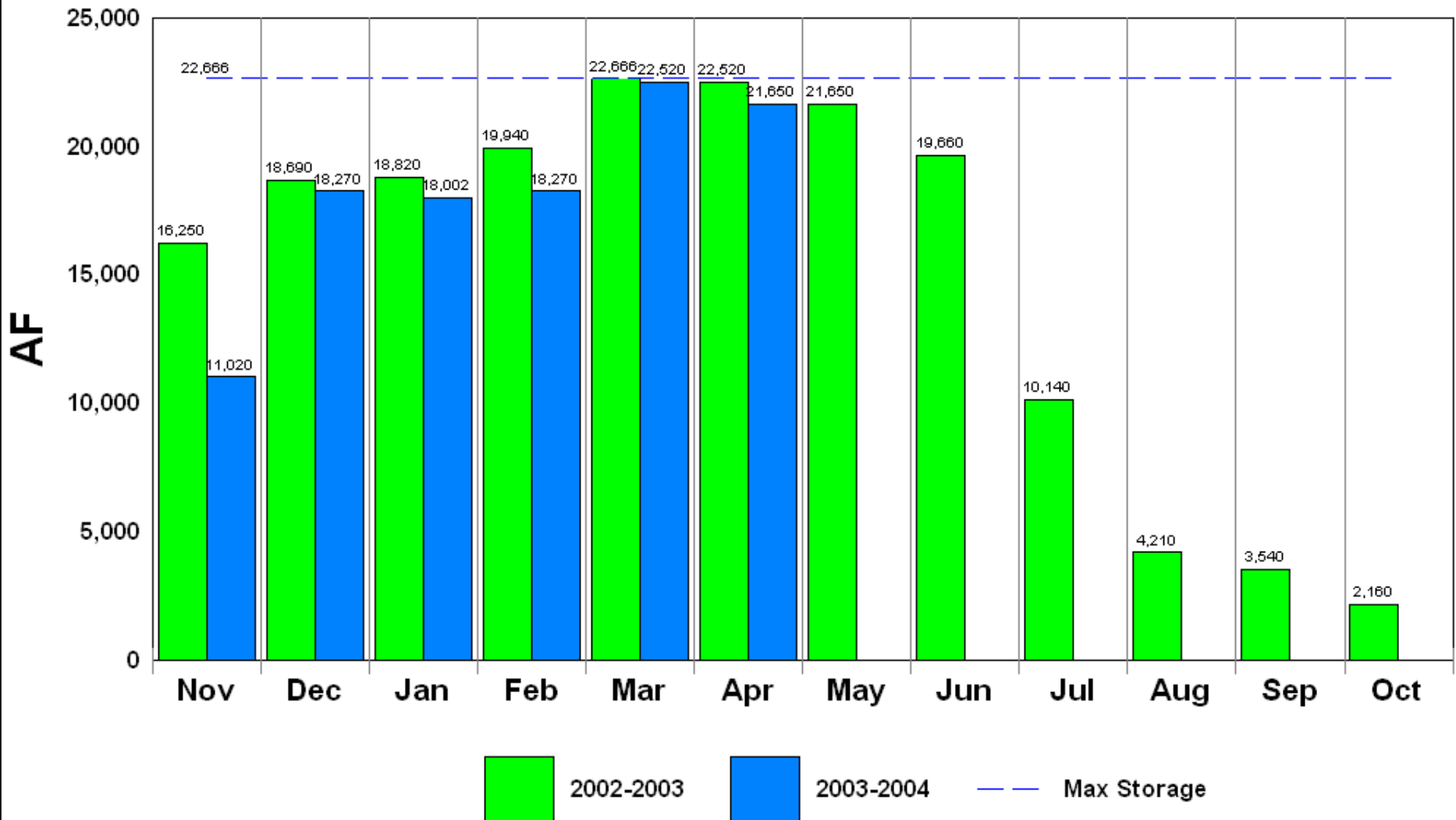
Individual Reservoir Storage follows:



Farm near Berthoud

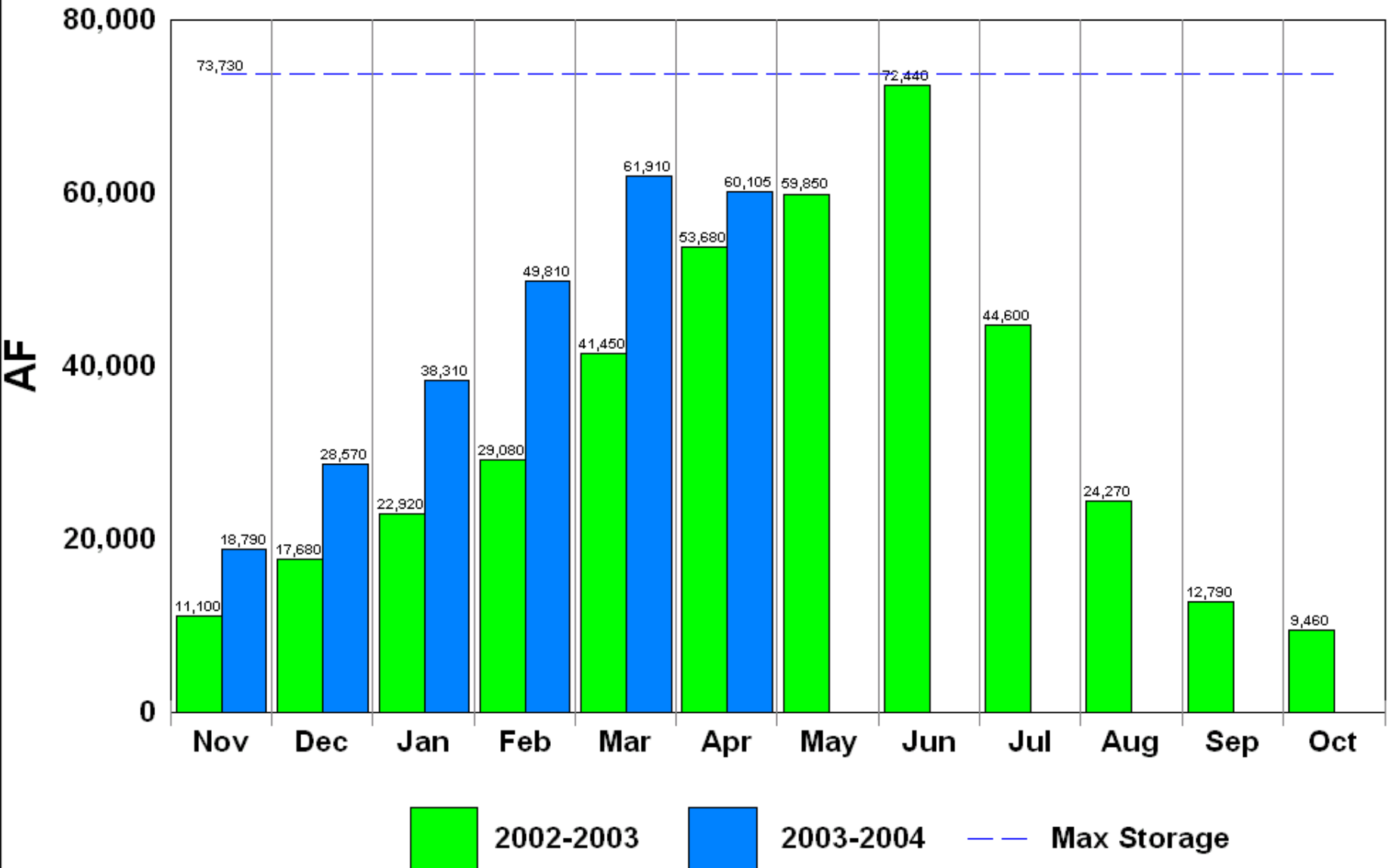
Julesburg Reservoir

(Agricultural)



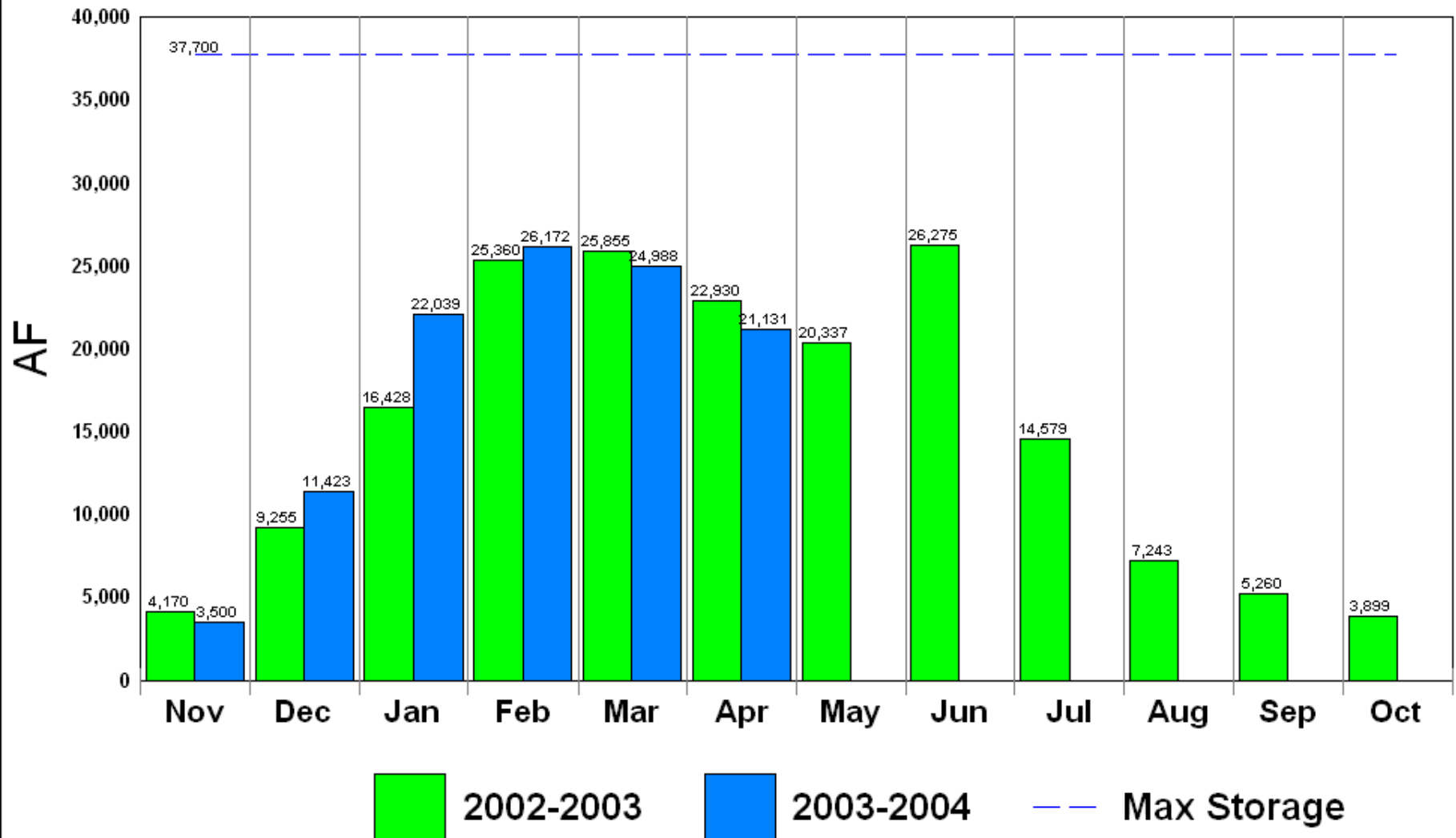
N. Sterling Reservoir

(Agricultural)



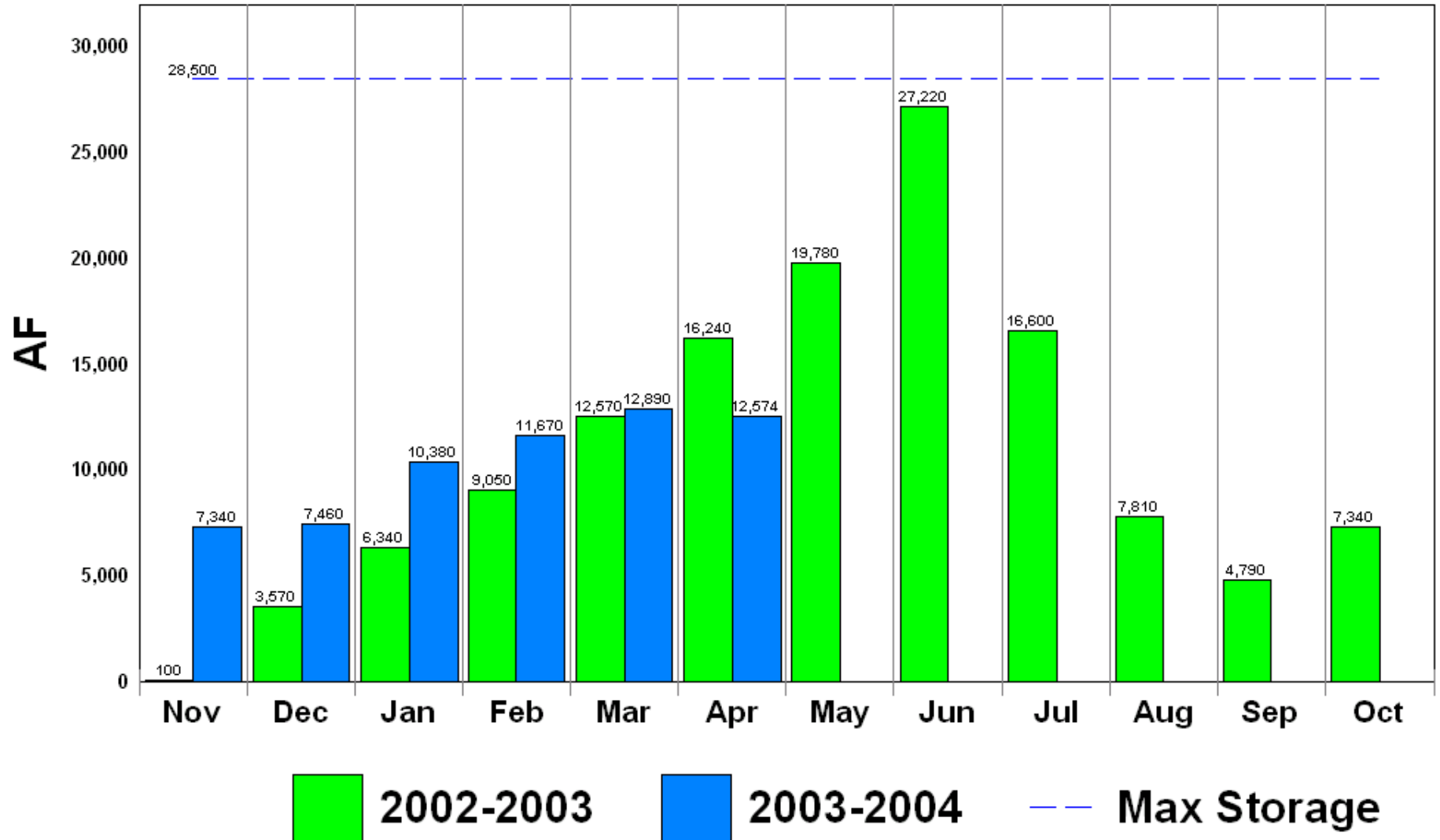
Empire Reservoir

(Agricultural)



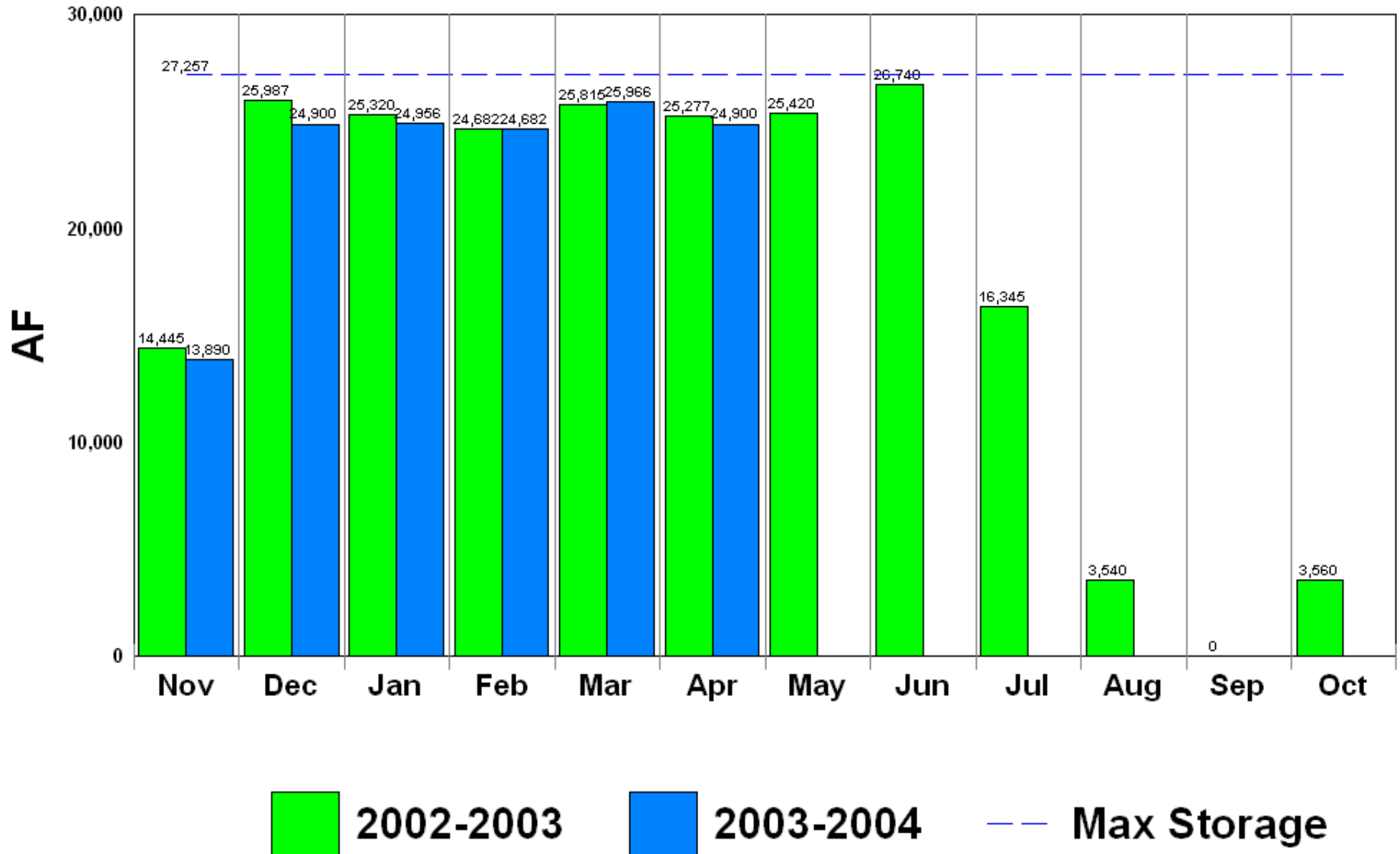
Prewitt Reservoir

(Agricultural)



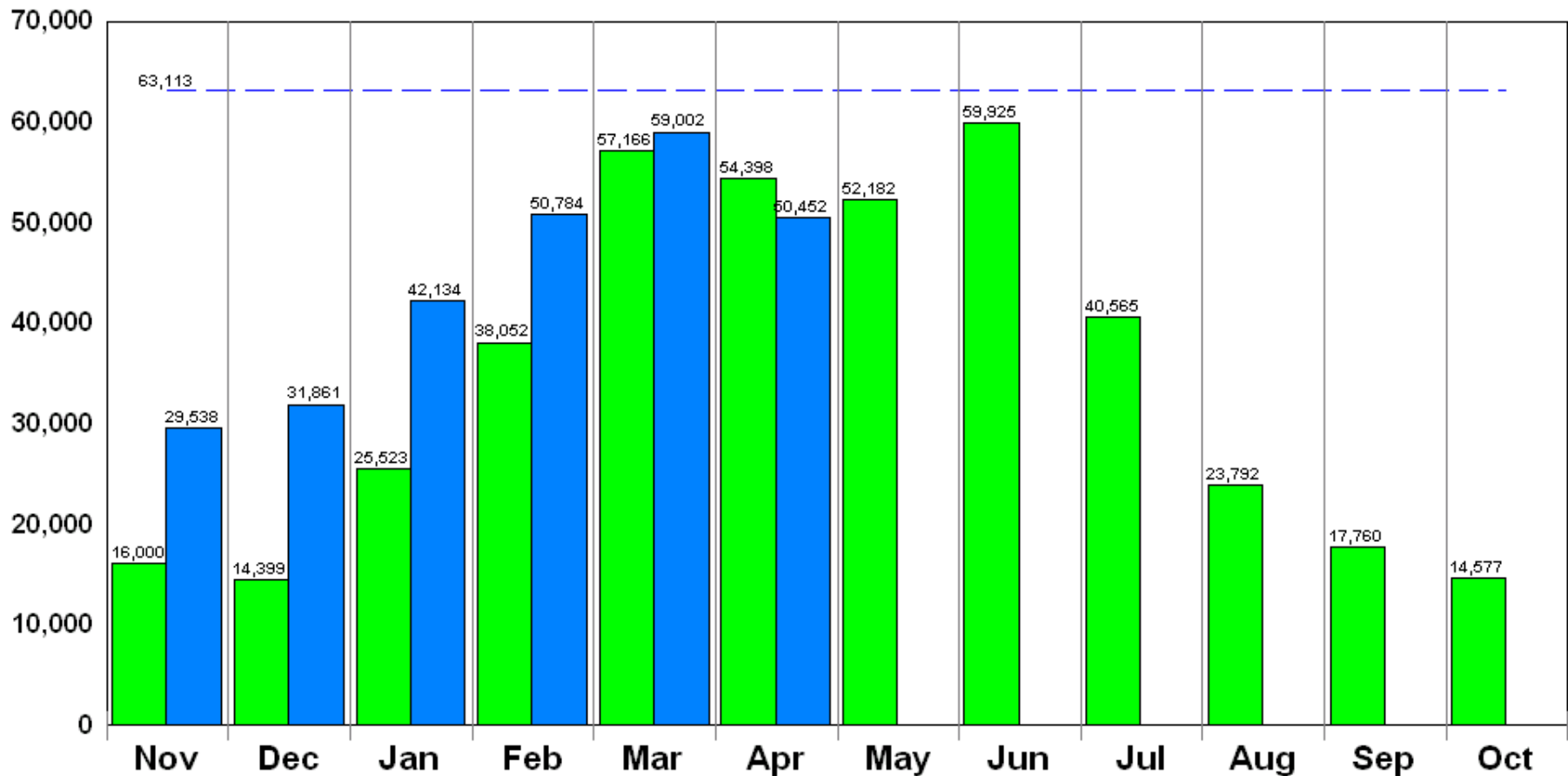
Jackson Reservoir


(Agricultural)





Riverside Reservoir

(Agricultural)



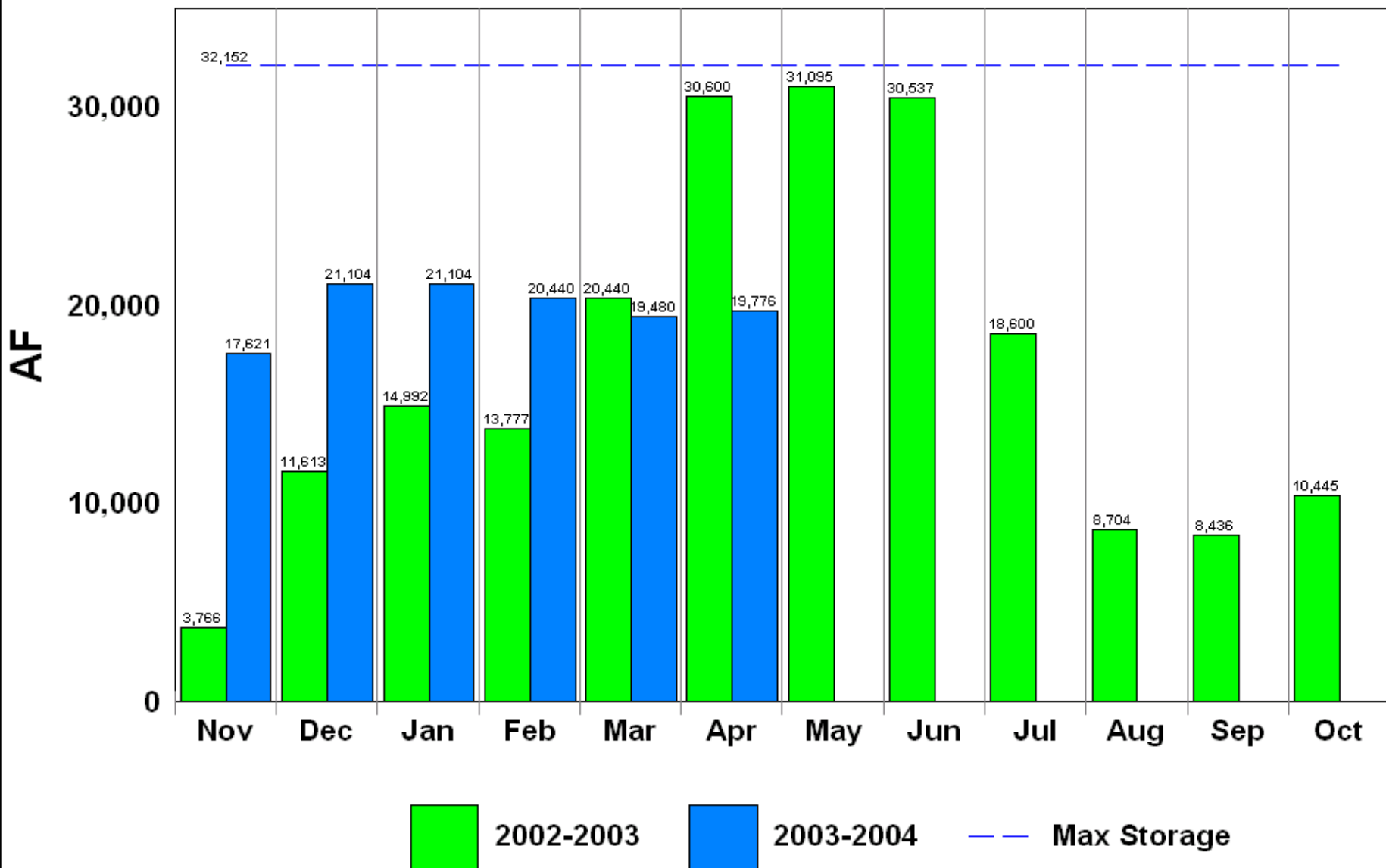
 2002-2003

 2003-2004

 Max Storage

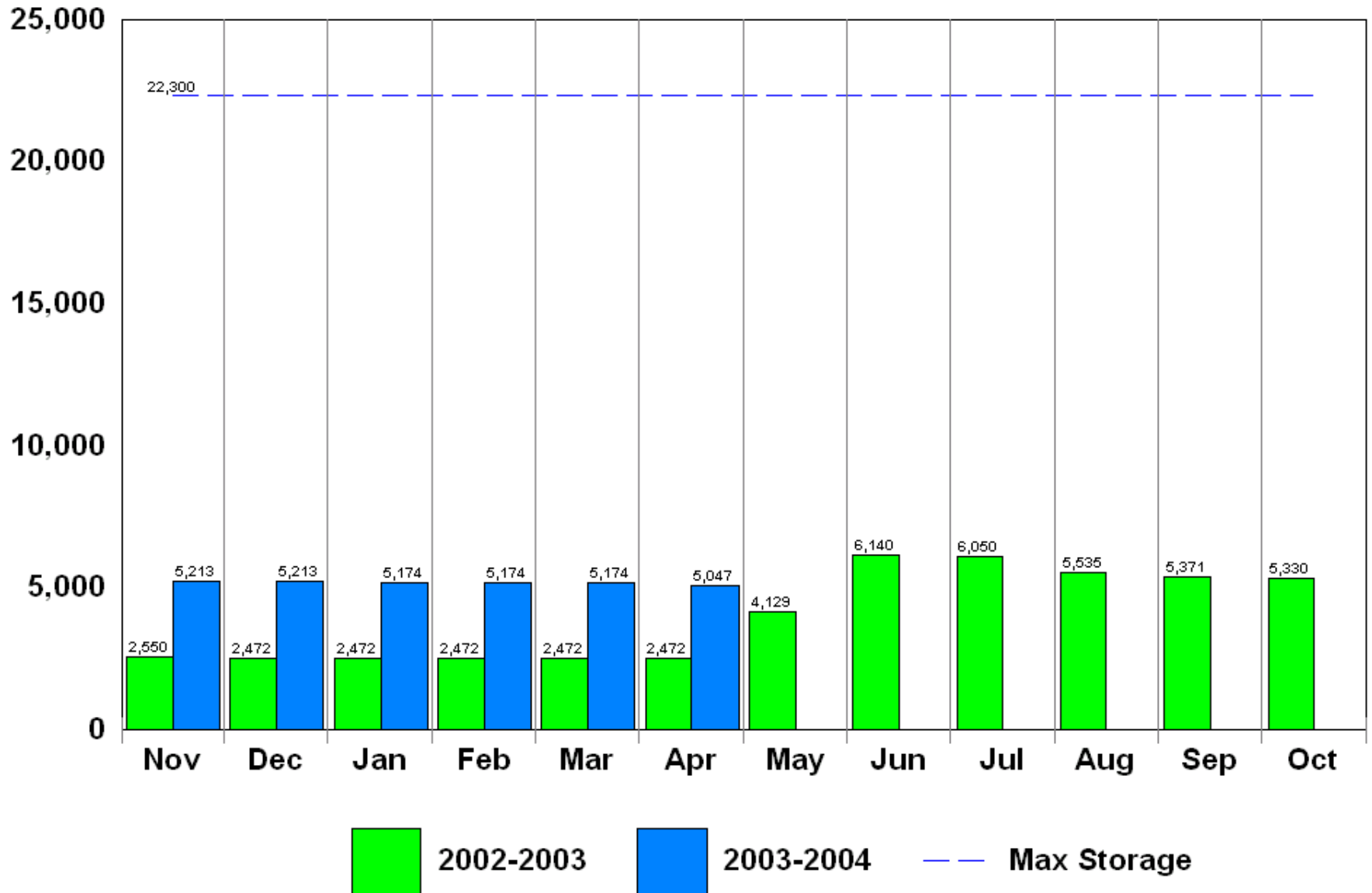
Barr Lake

(Agricultural)



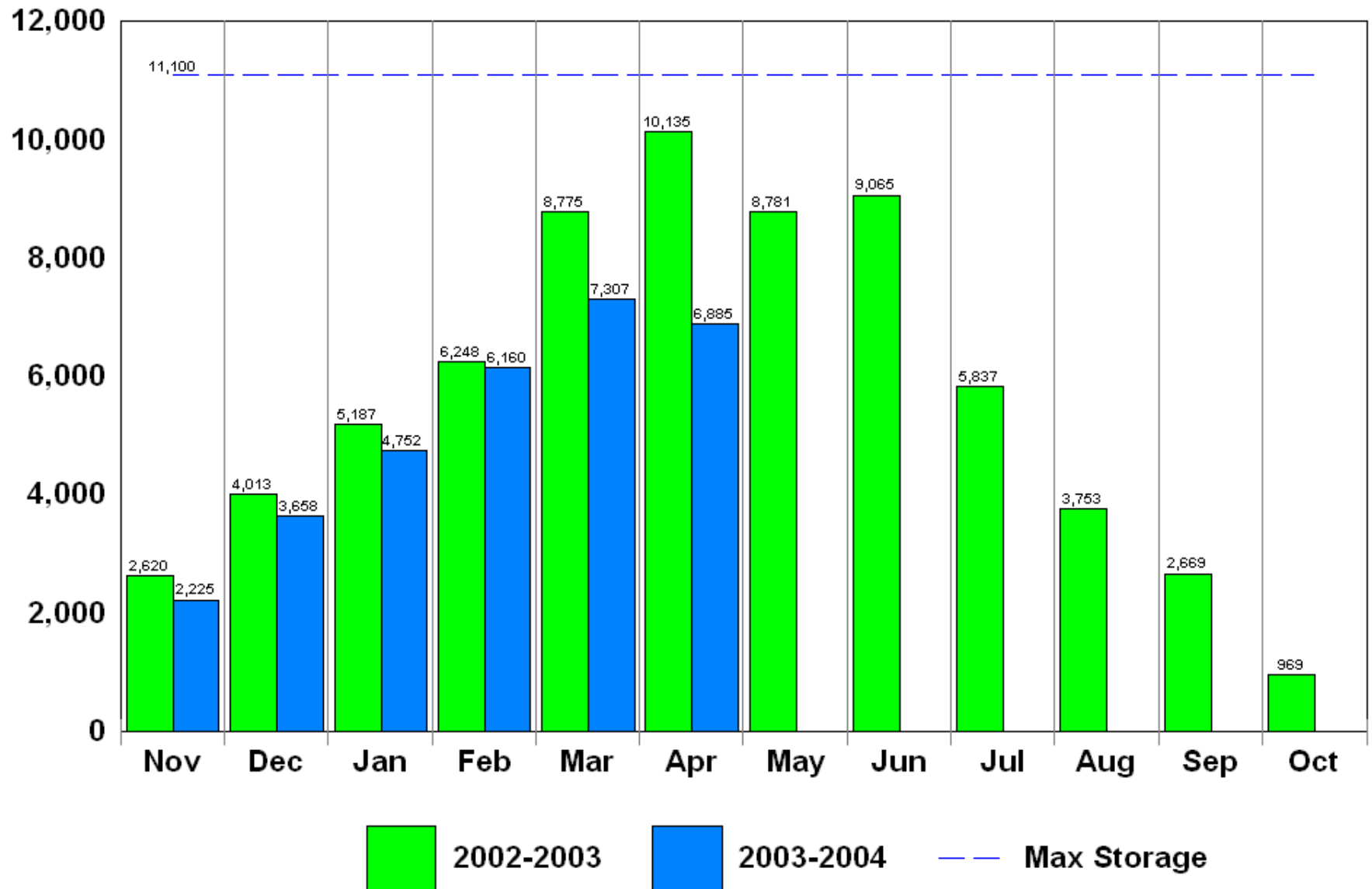
Cobb Lake

(Agricultural)



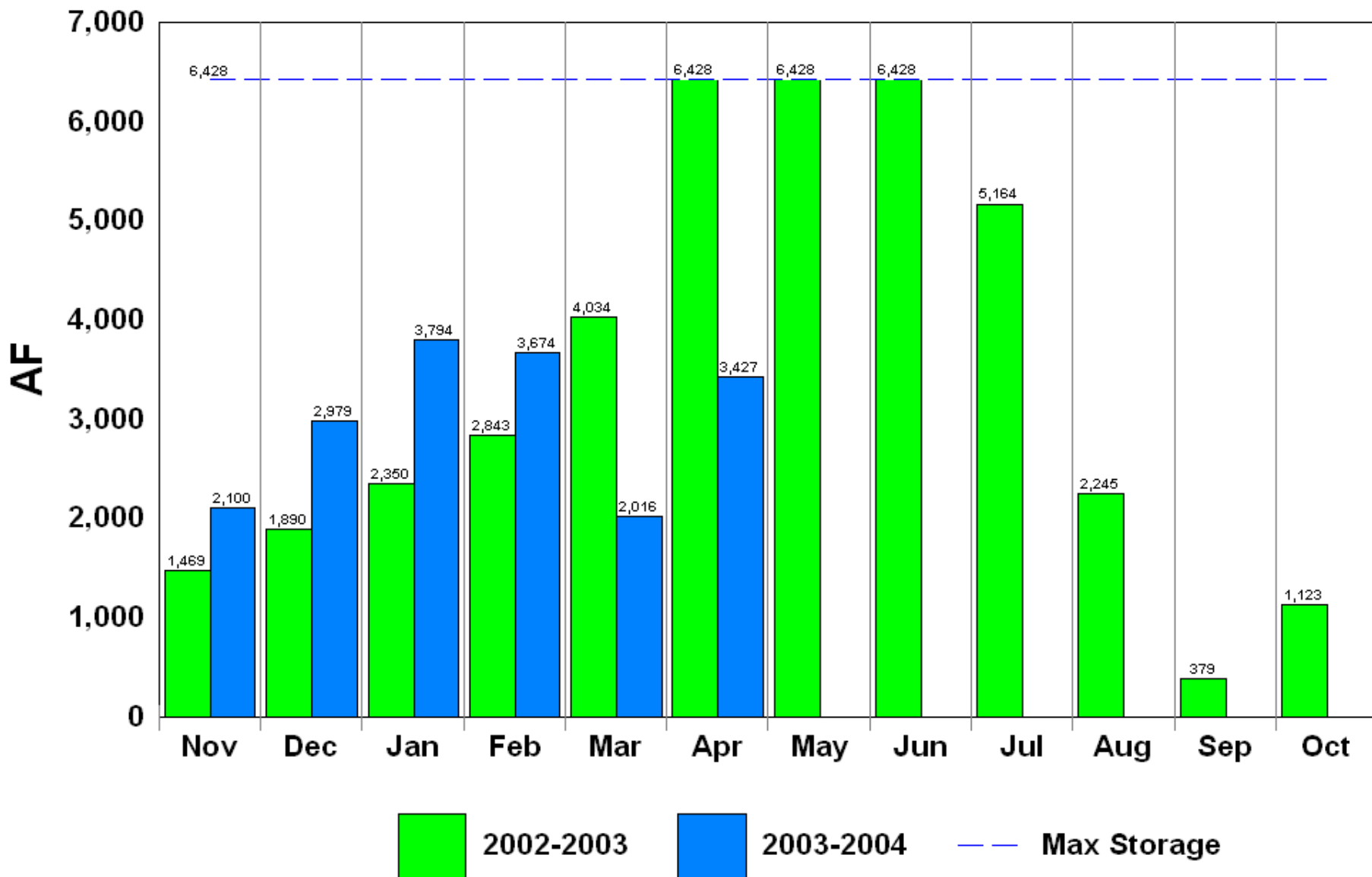
Fossil Creek Reservoir

(Agricultural)



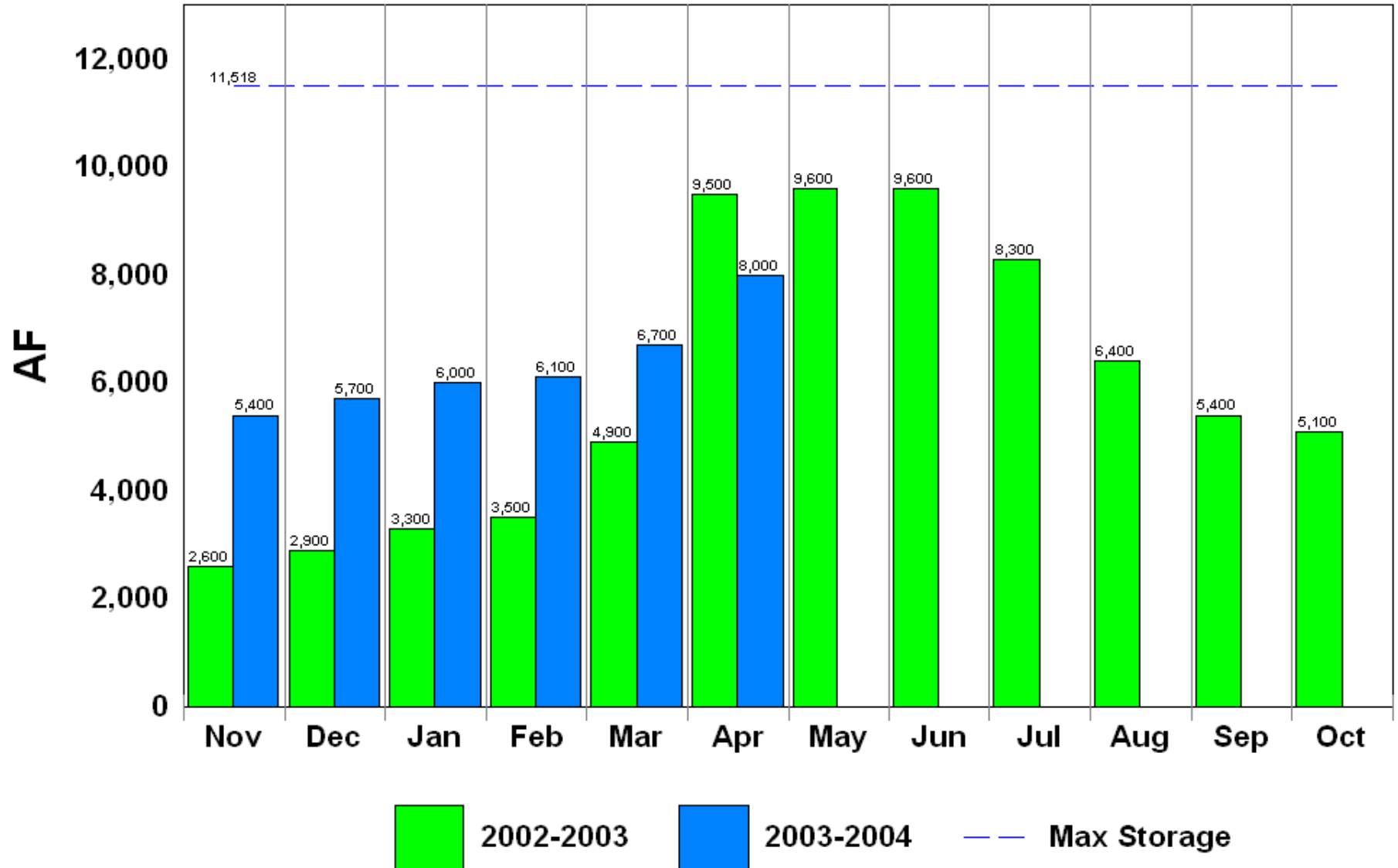
Halligan Reservoir

(Agricultural)



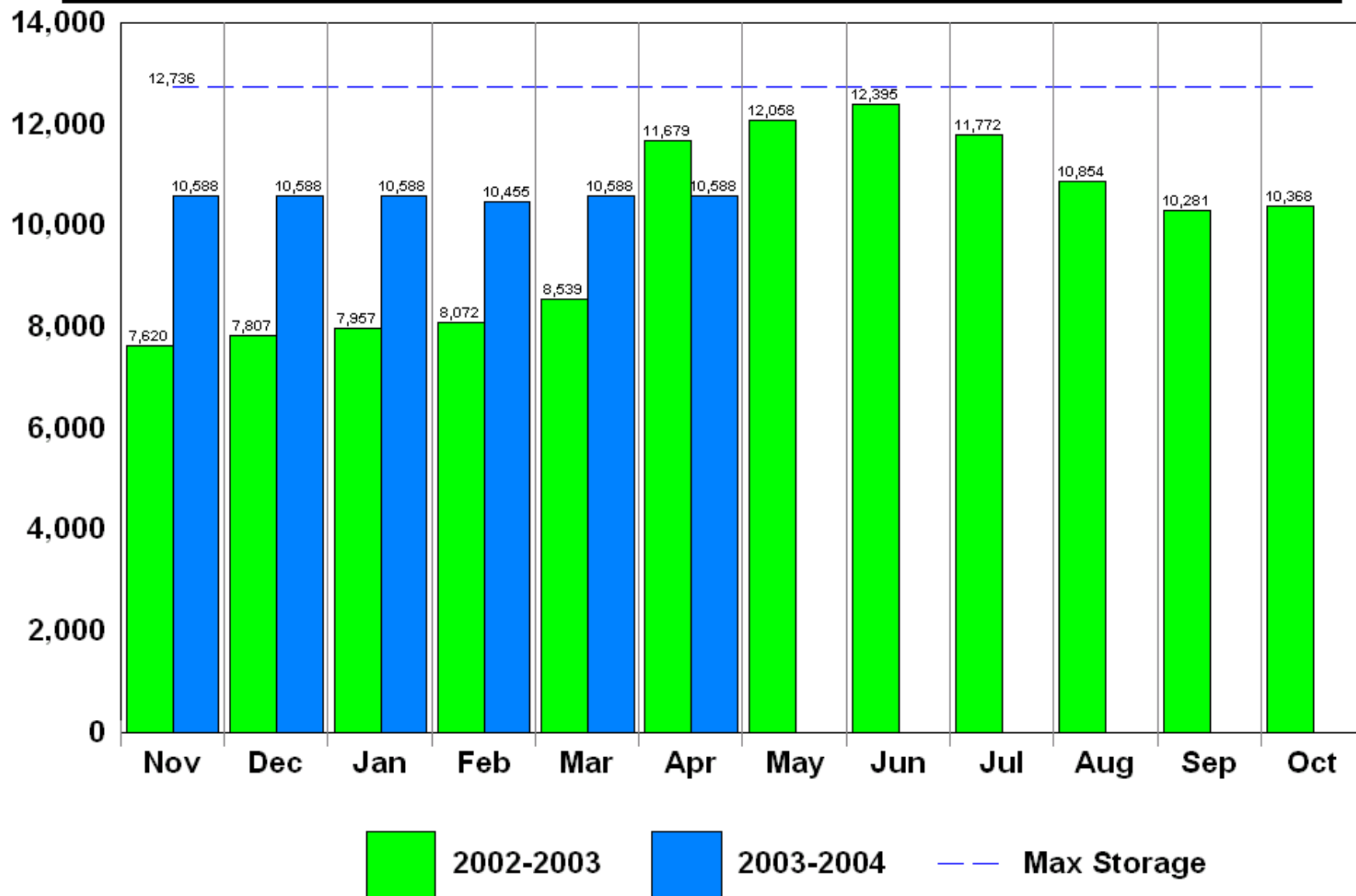
Marshall Lake

(Agricultural)



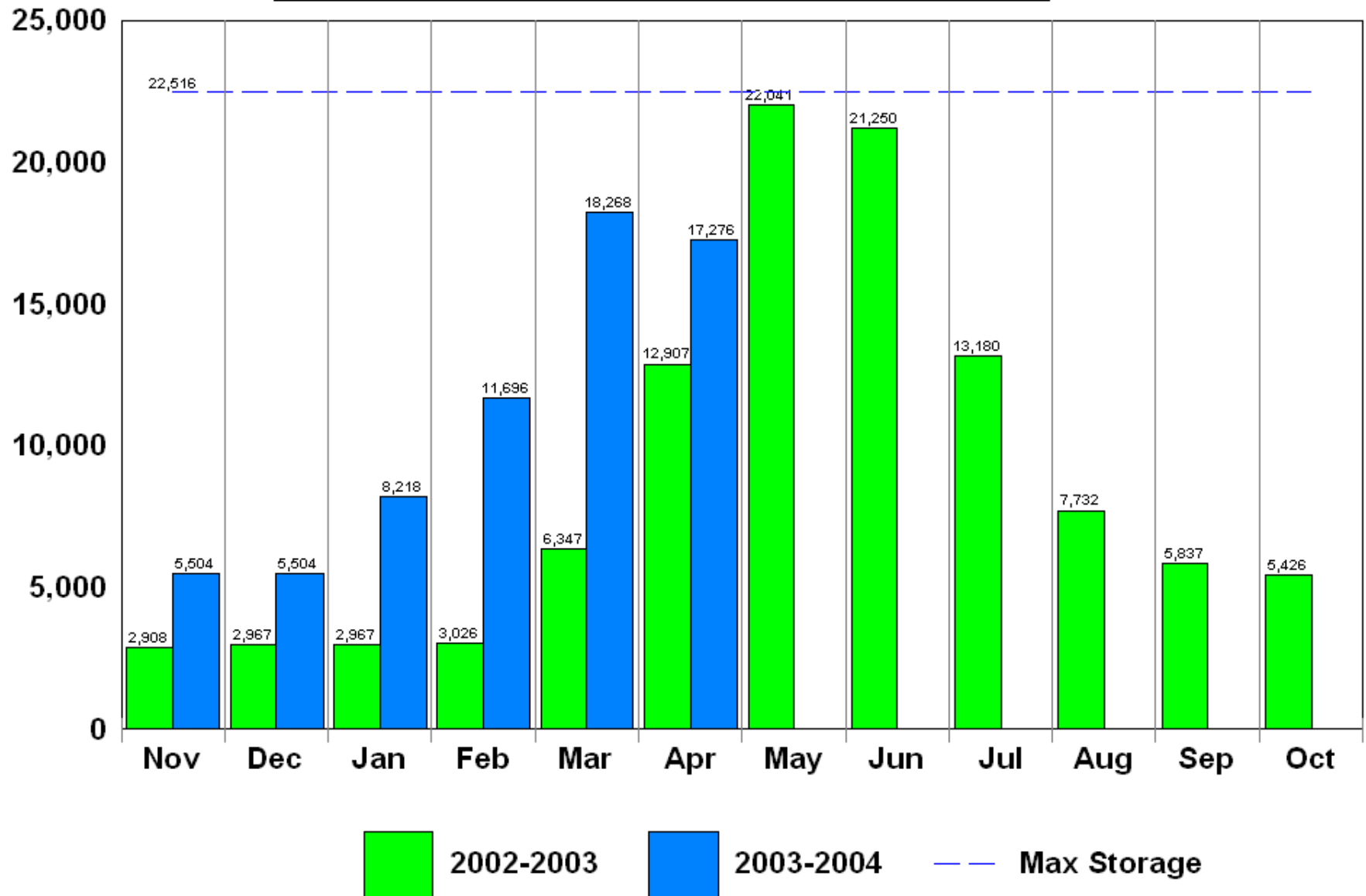
Loveland Greeley Reservoir

(Agricultural)



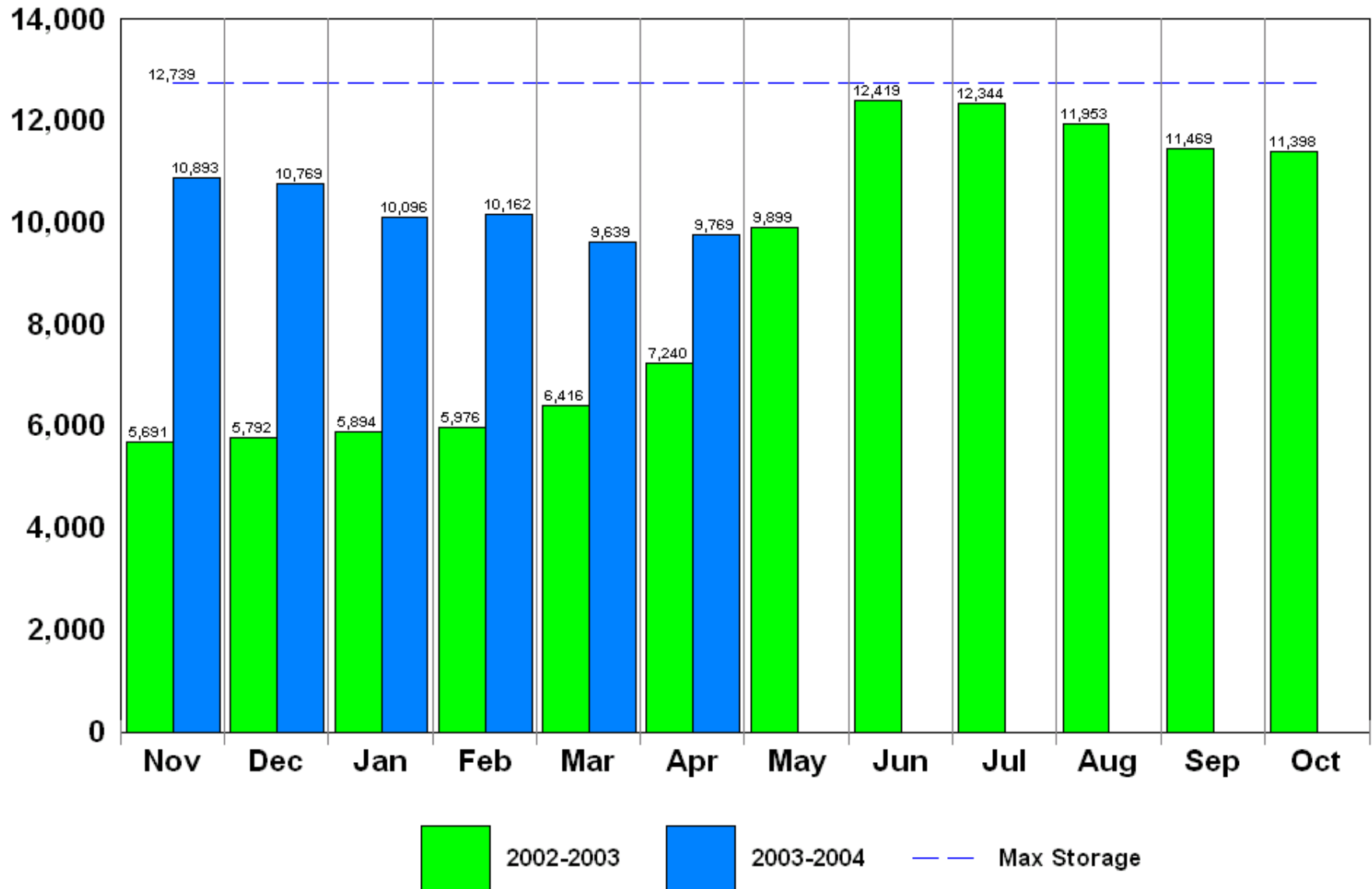
Milton Reservoir

(Agricultural)



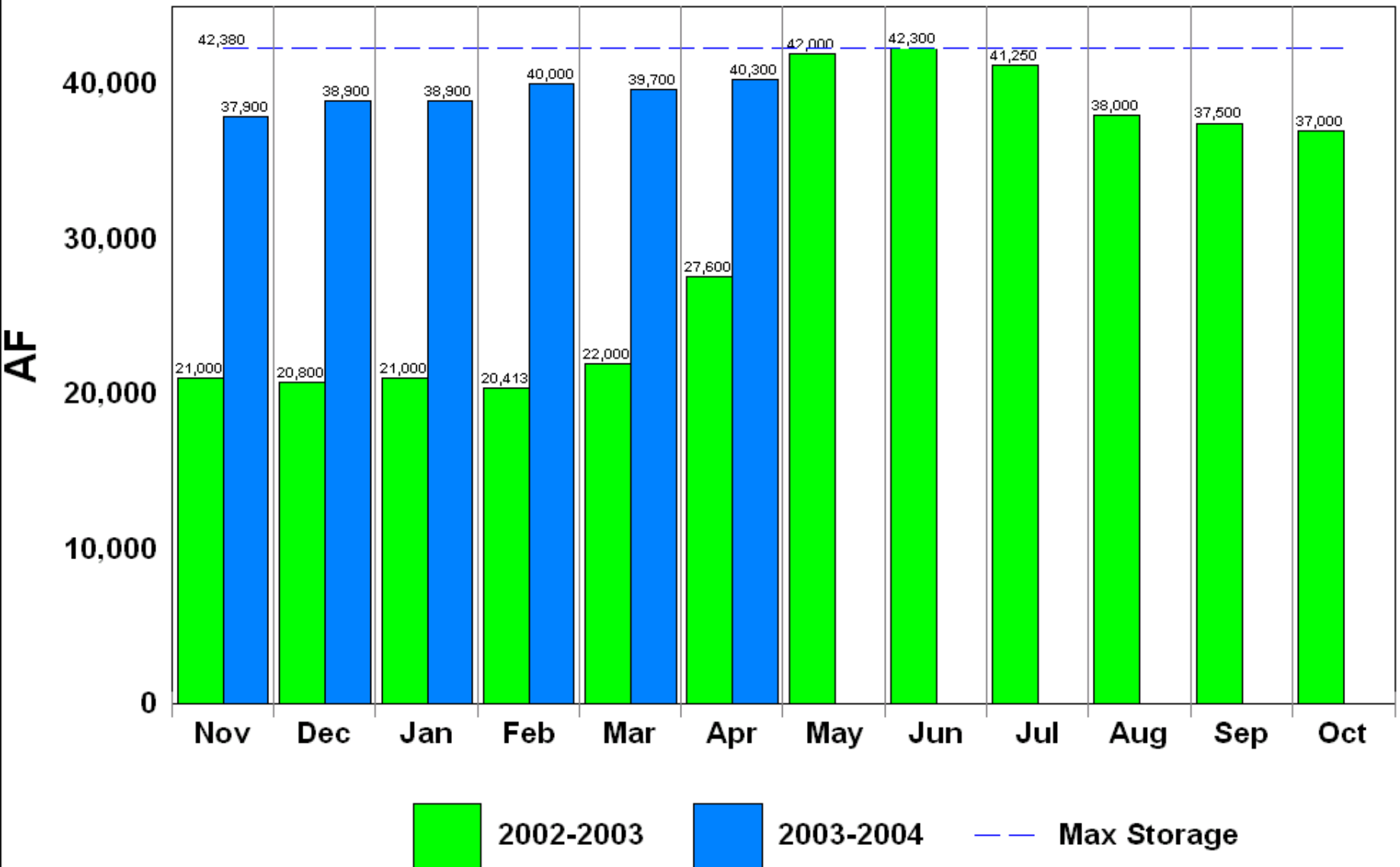
Union Reservoir

(Agricultural)



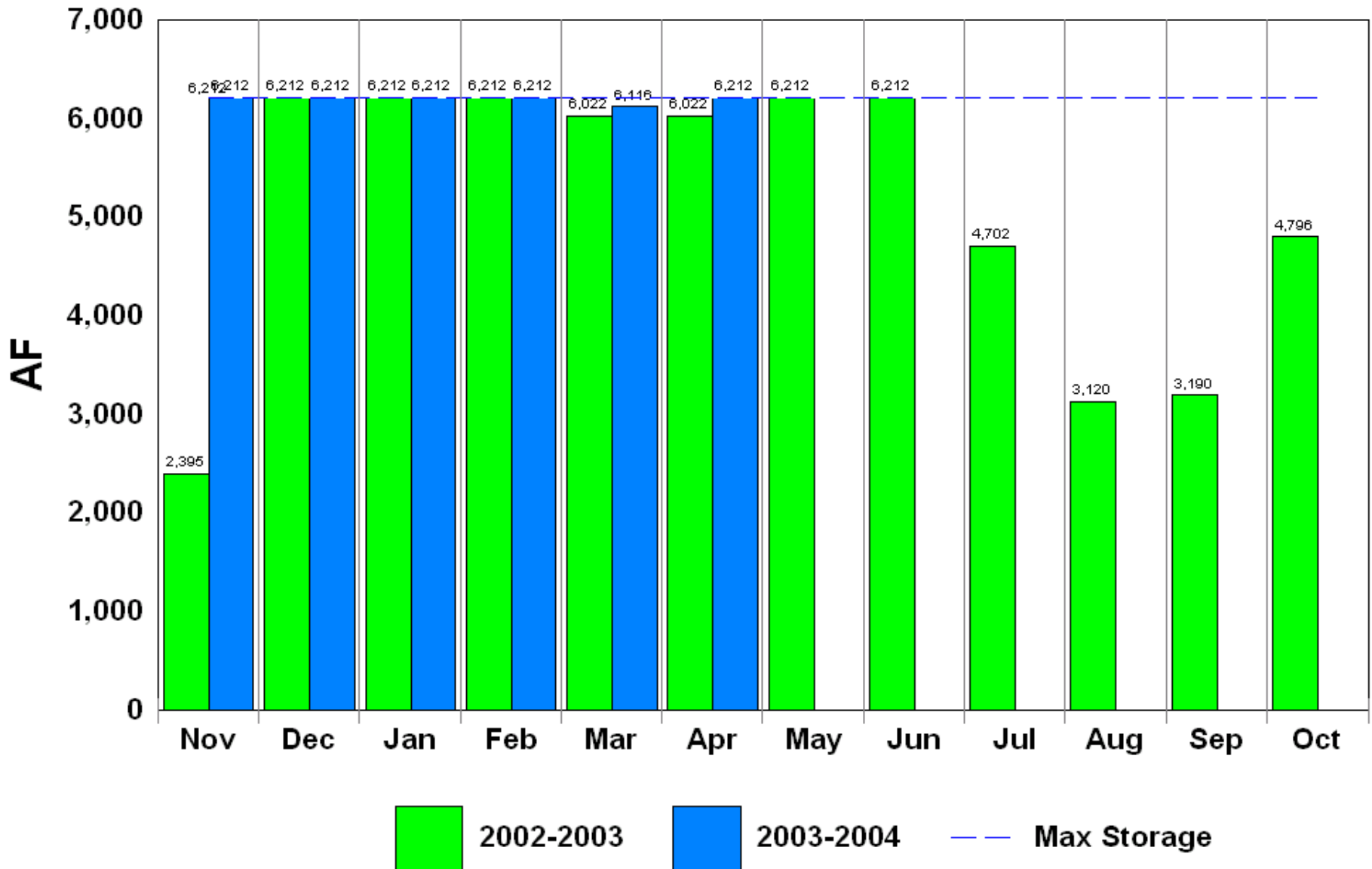
Standley Lake

(Agricultural)



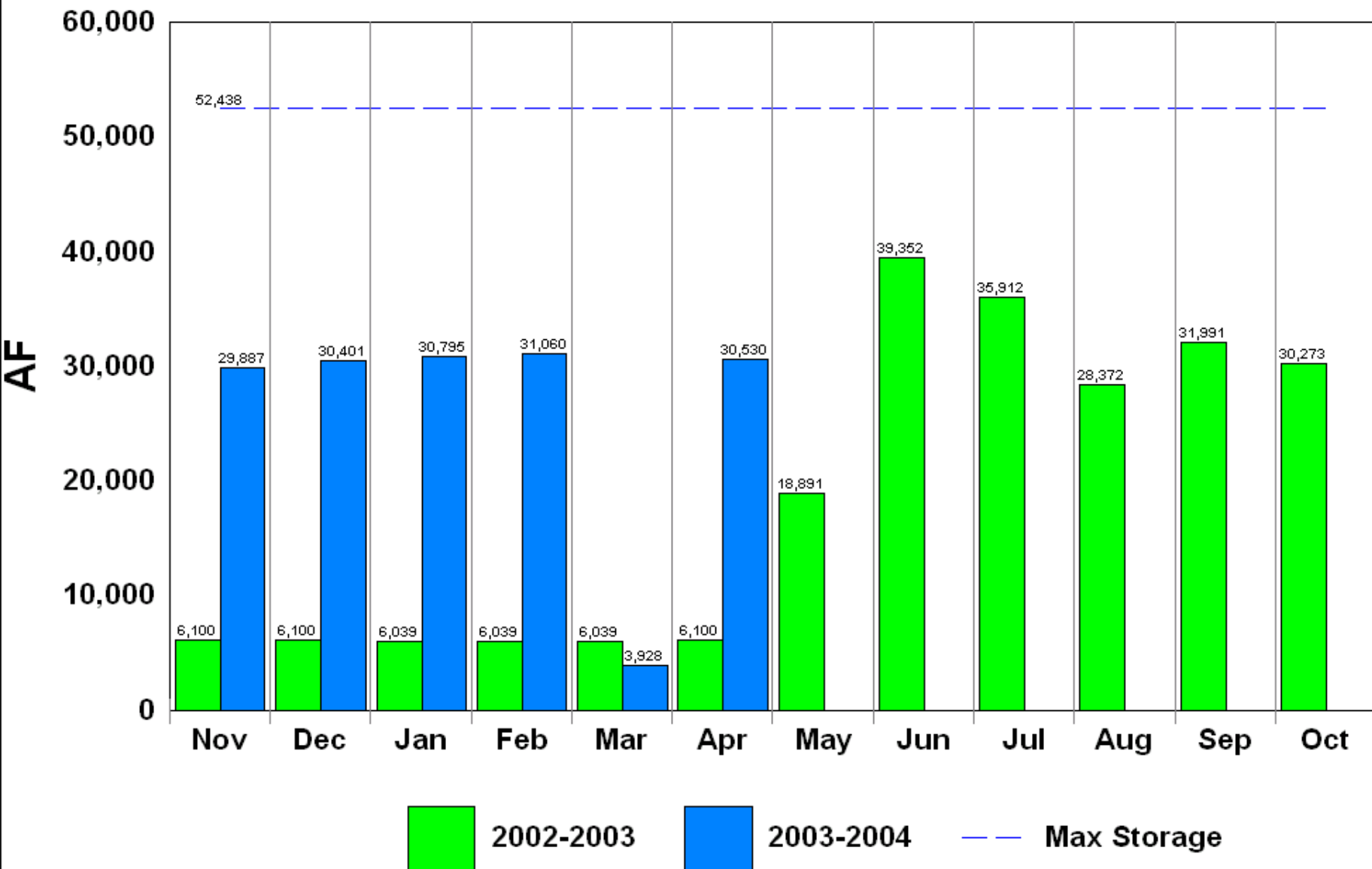
Lower Latham Reservoir

(Agricultural)



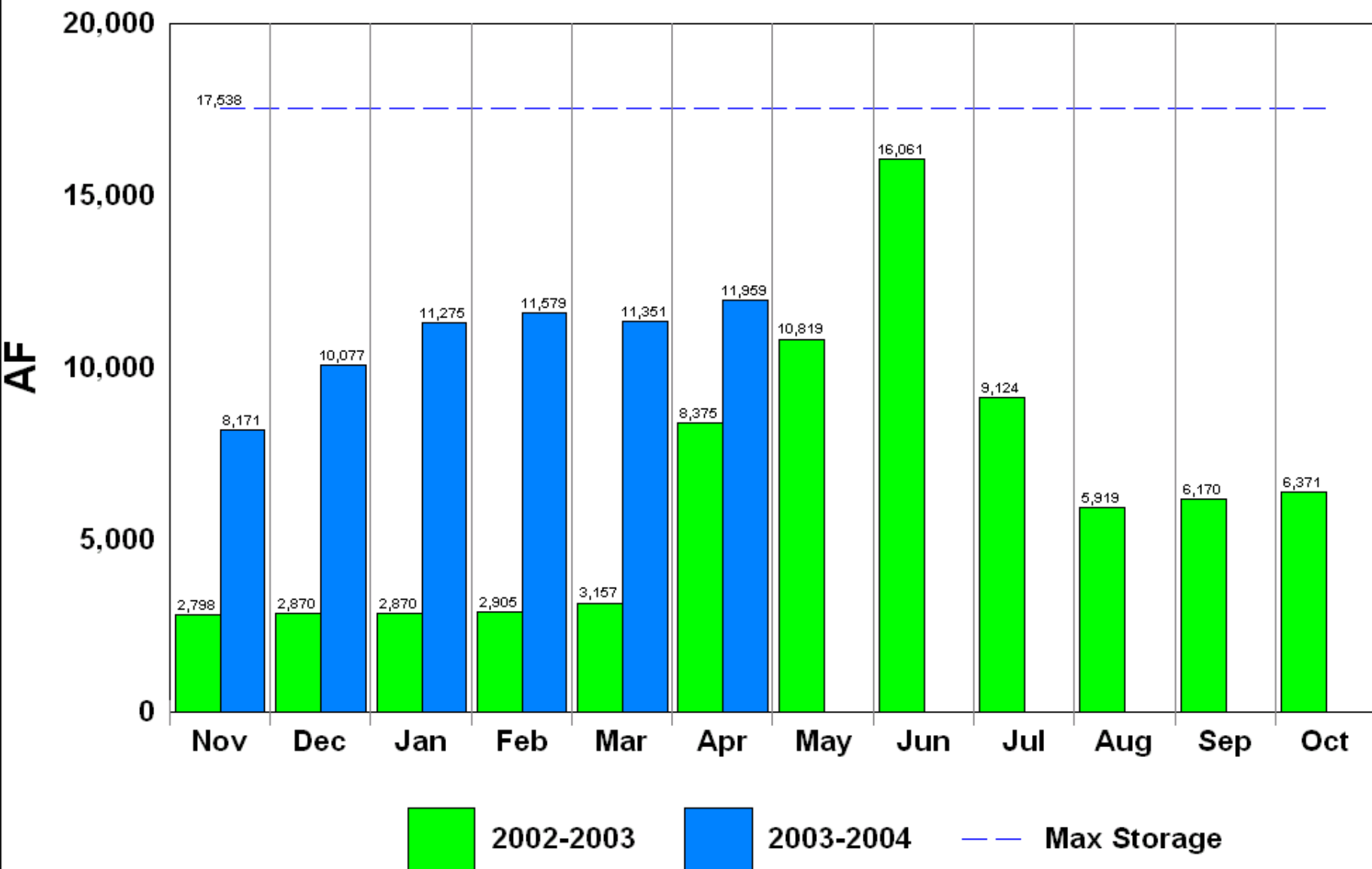
Boyd Lake

(Agricultural)



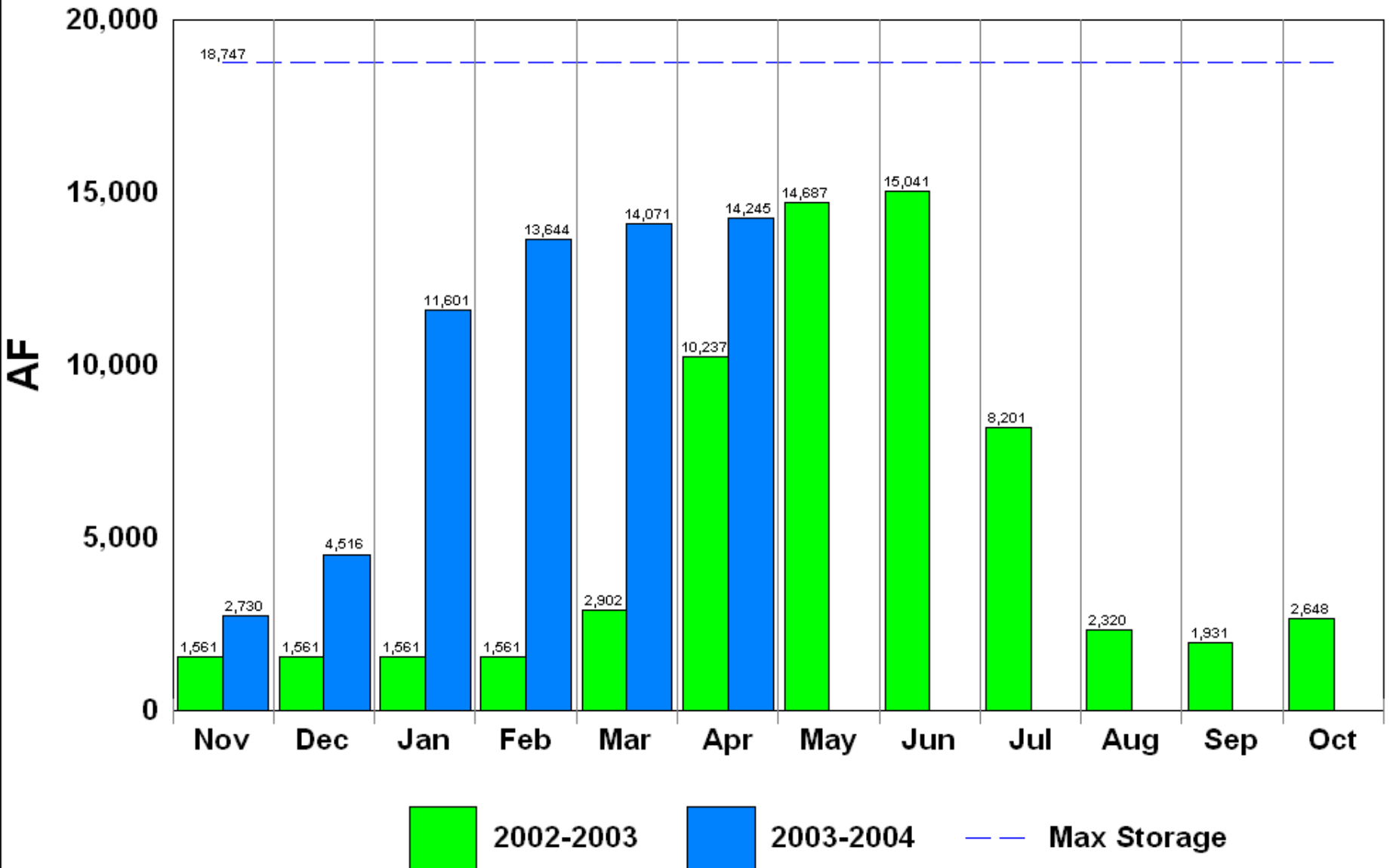
Windsor Reservoir

(Agricultural)



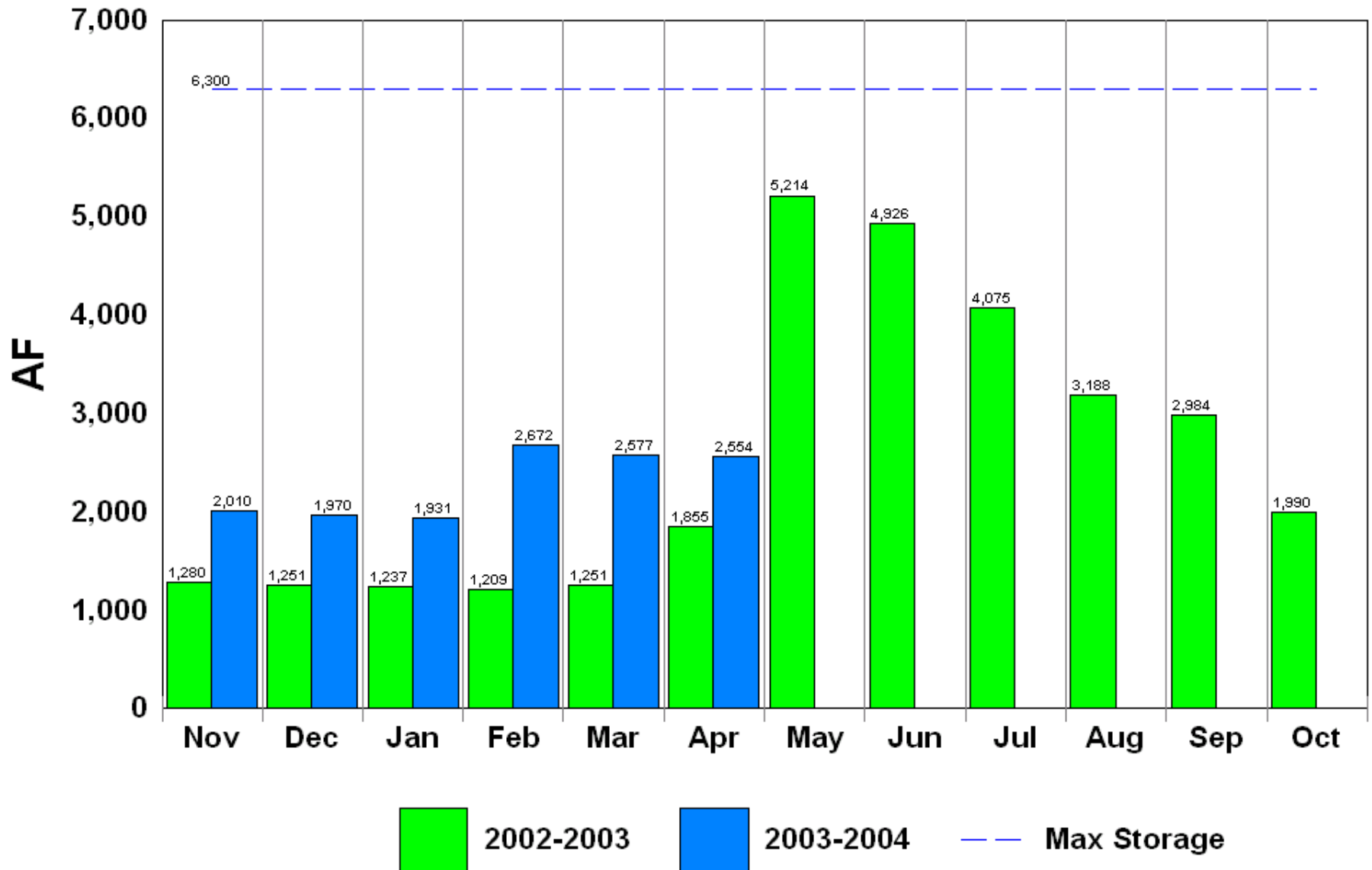
Horse Creek Reservoir

(Agricultural)



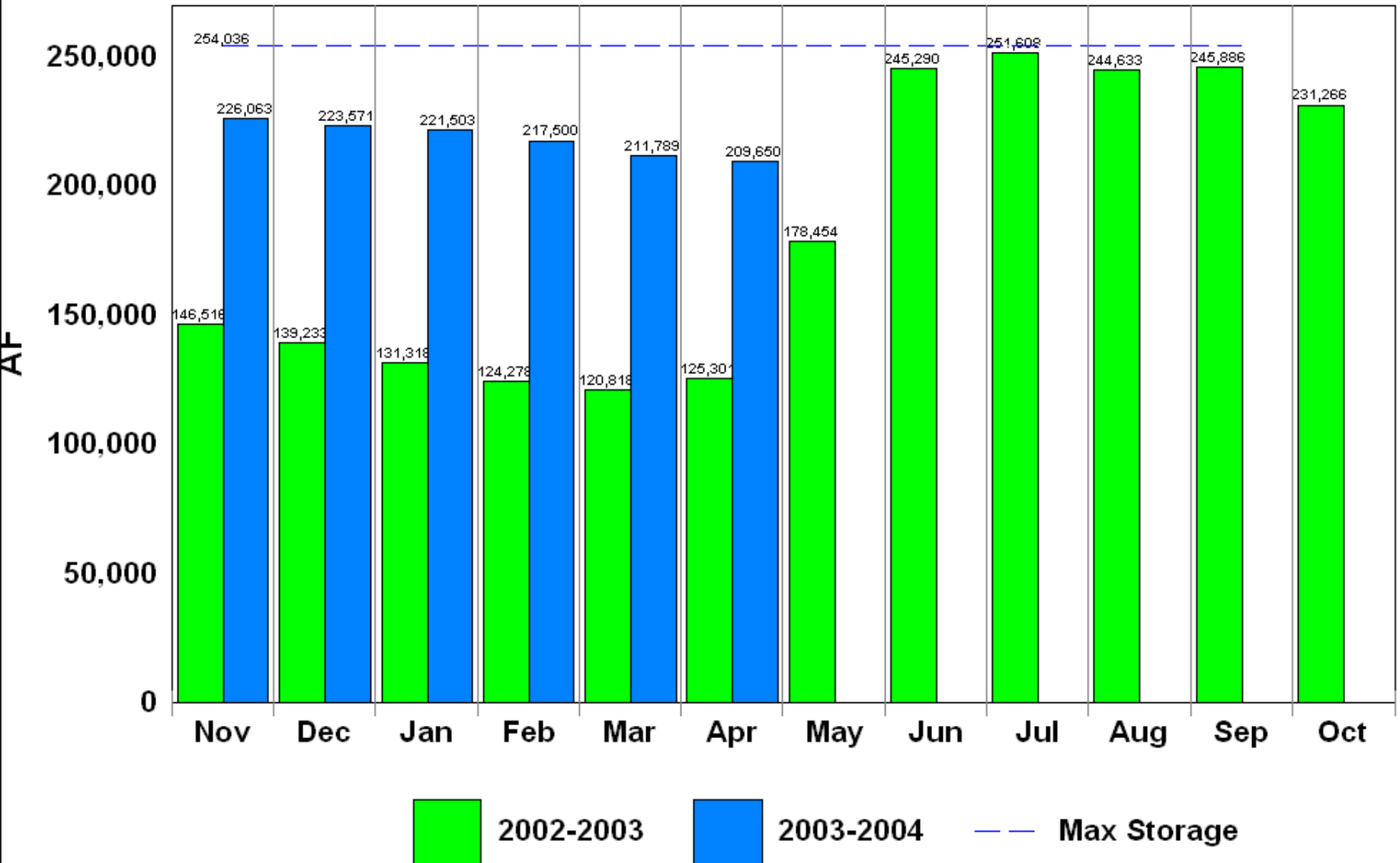
Prospect Reservoir

(Agricultural)



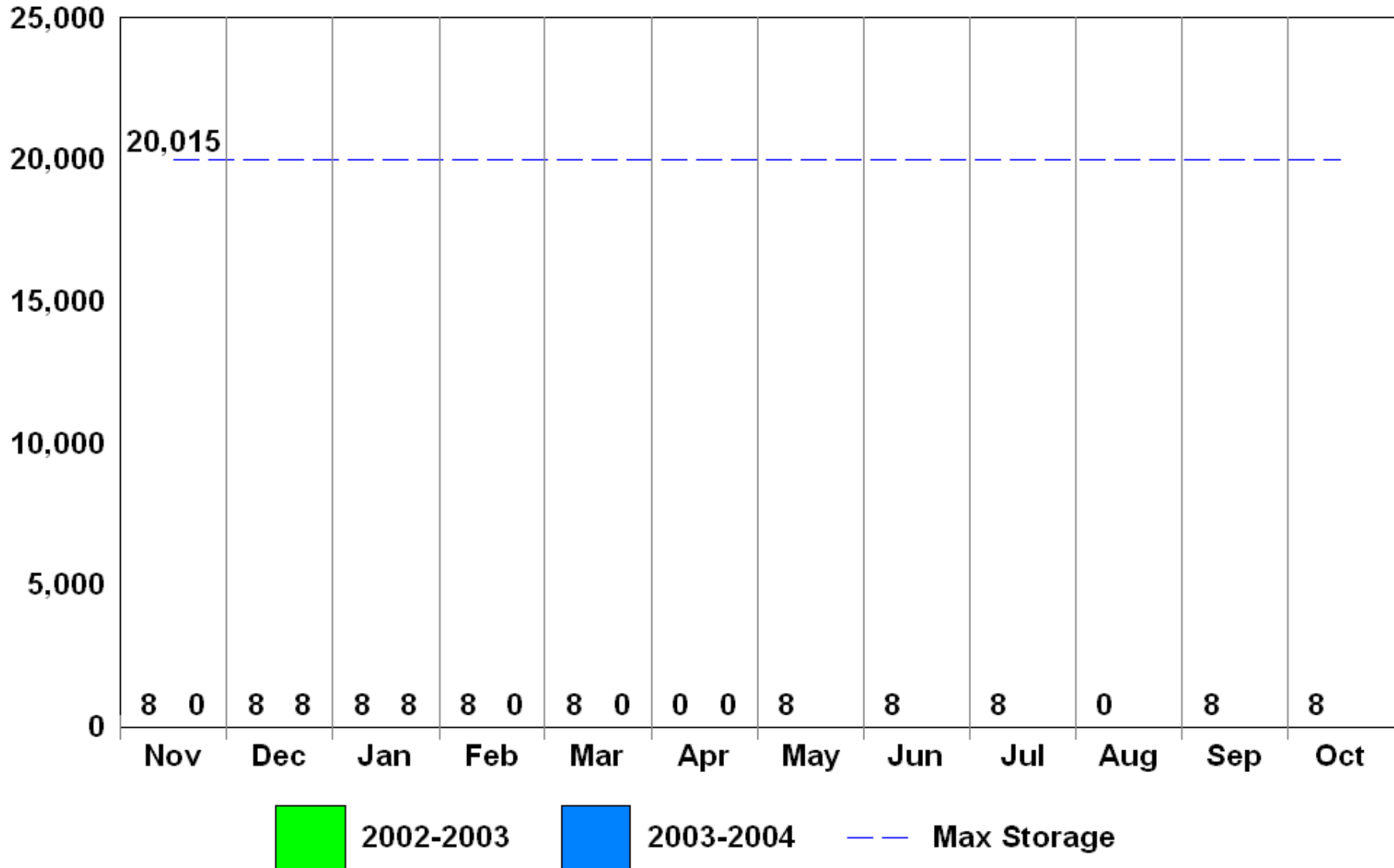
Dillon Reservoir

(Municipal)



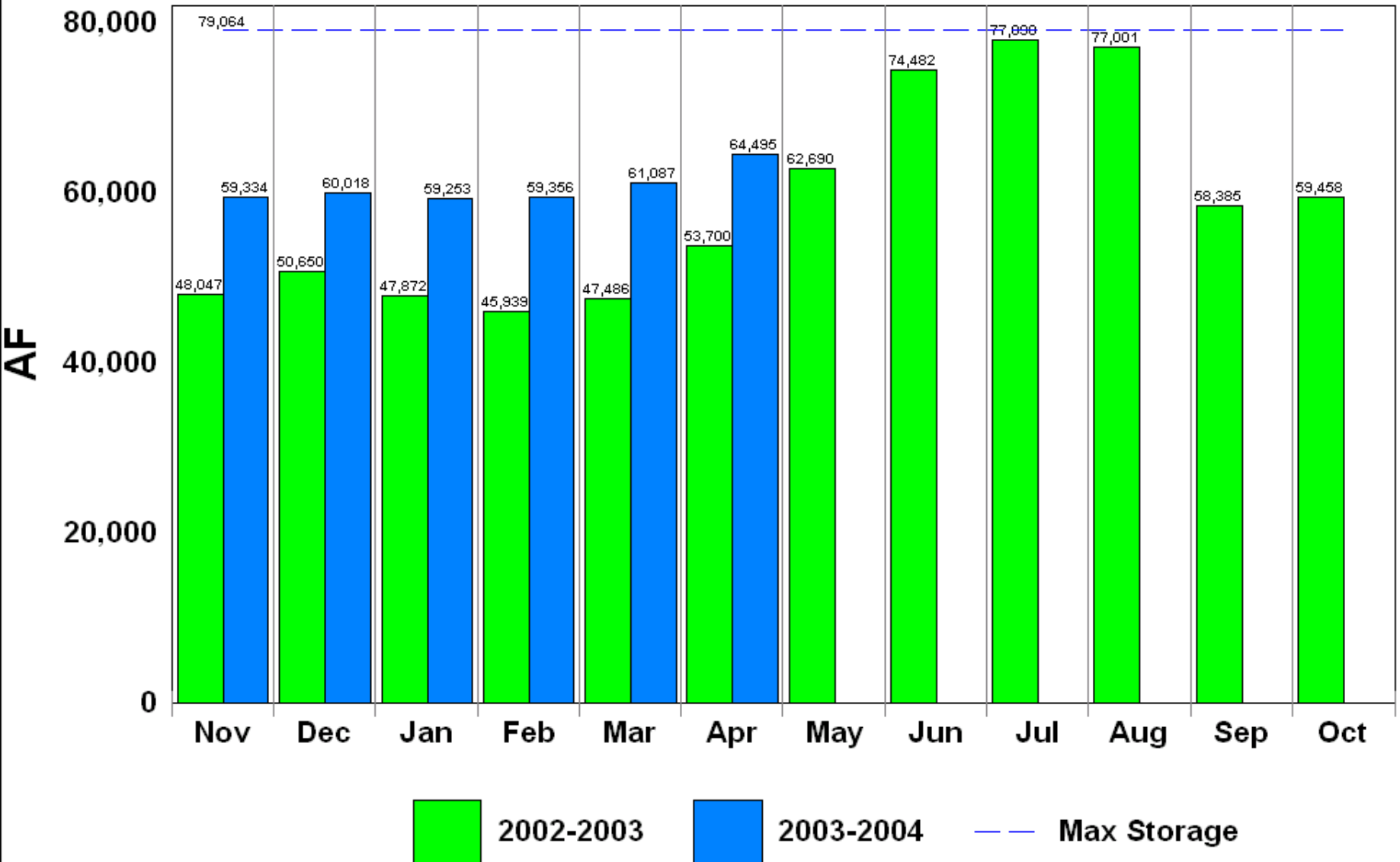
Antero Reservoir

(Municipal)



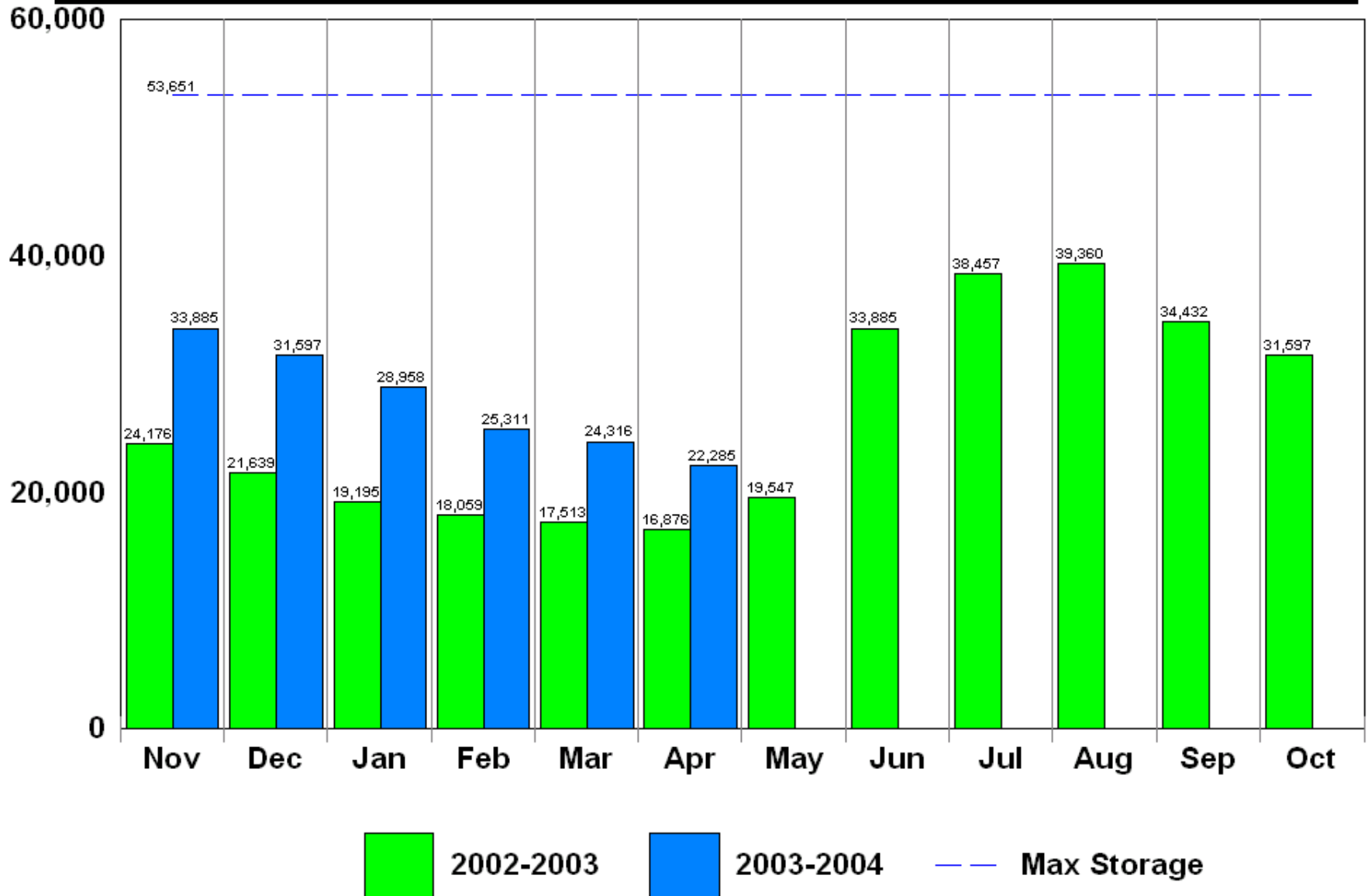
Cheesman Reservoir

(Municipal)



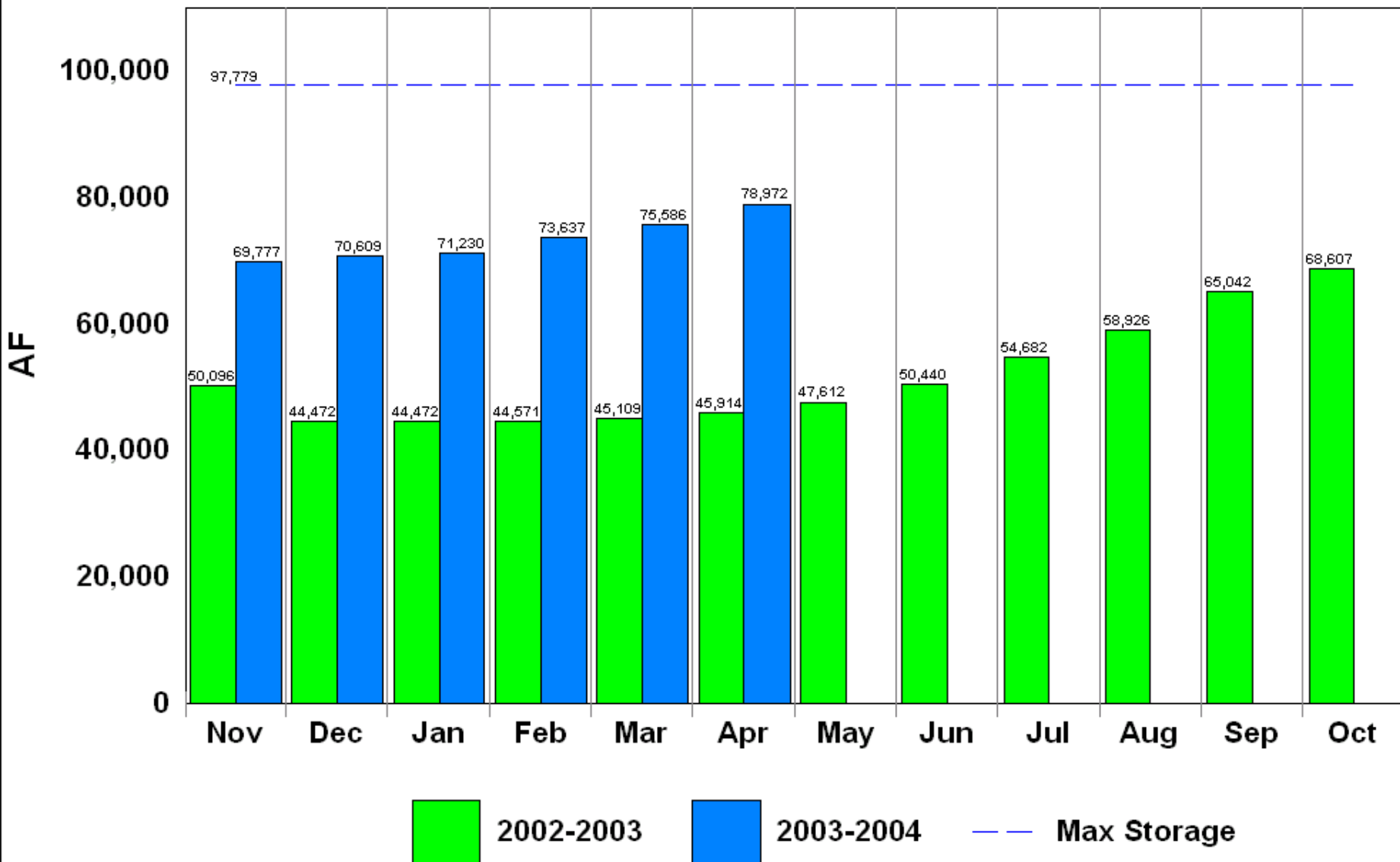
Spinney Mountain Reservoir

(Municipal)

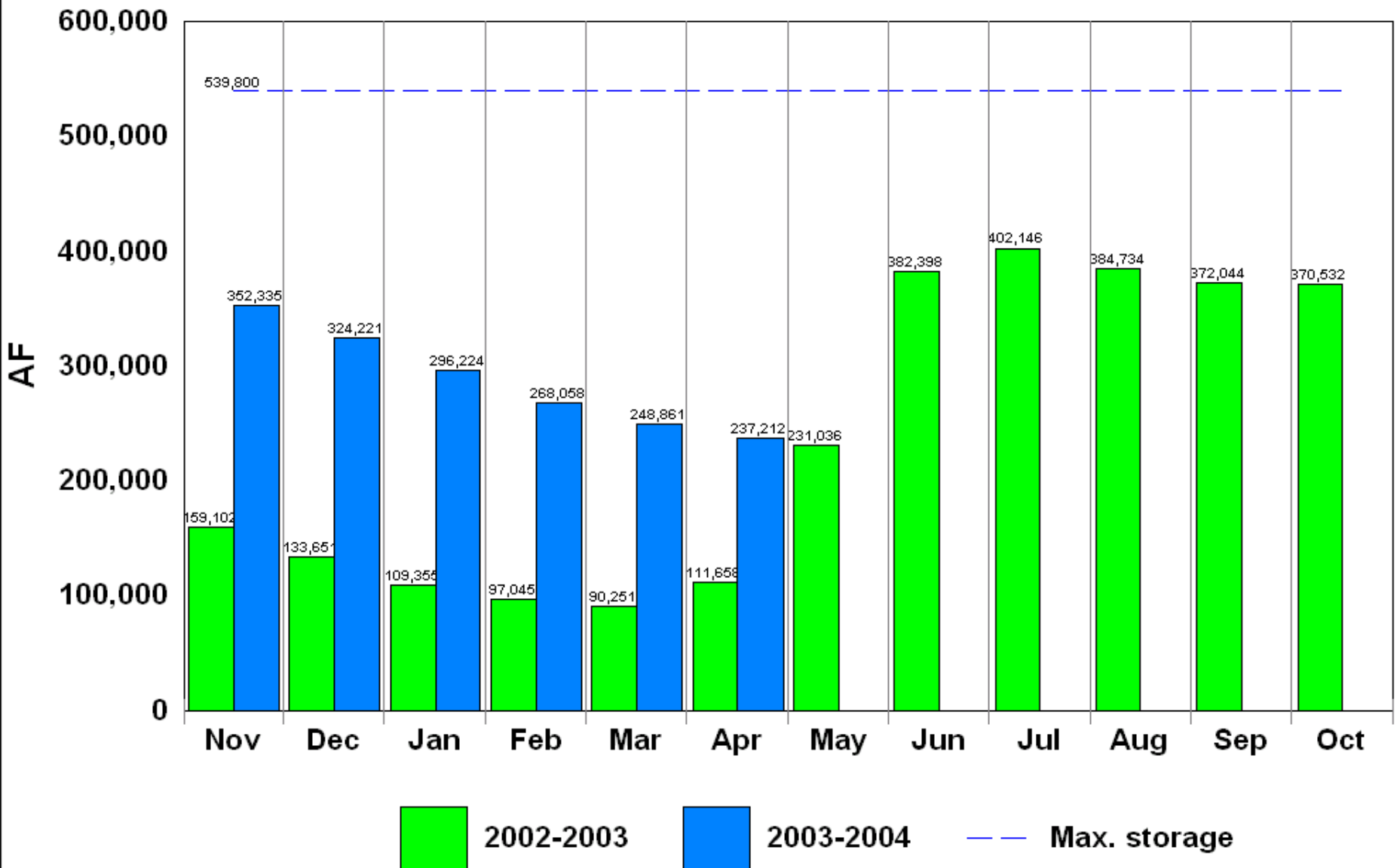


Eleven Mile Reservoir

(Municipal)



Lake Granby



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

Front, Sunset and end photos by
Hank Lochhead