



South Platte Summary

May 2004

By John Lochhead for The
Colorado Division of Water
Resources

Measuring flow at Roberts Tunnel

COLORADO DIVISION OF WATER RESOURCES, DIVISION 1

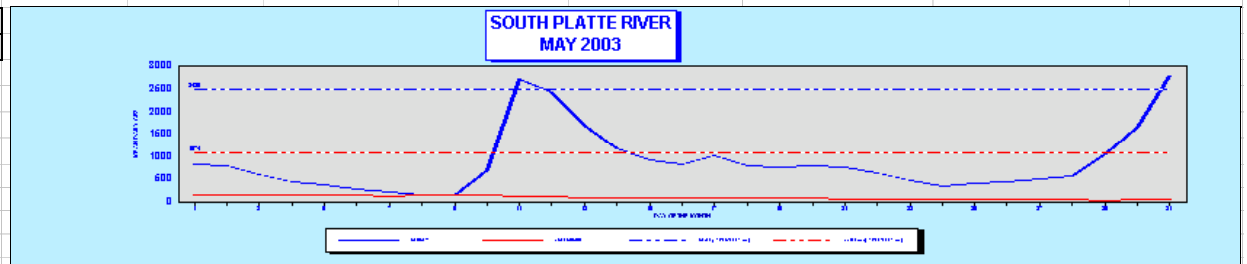
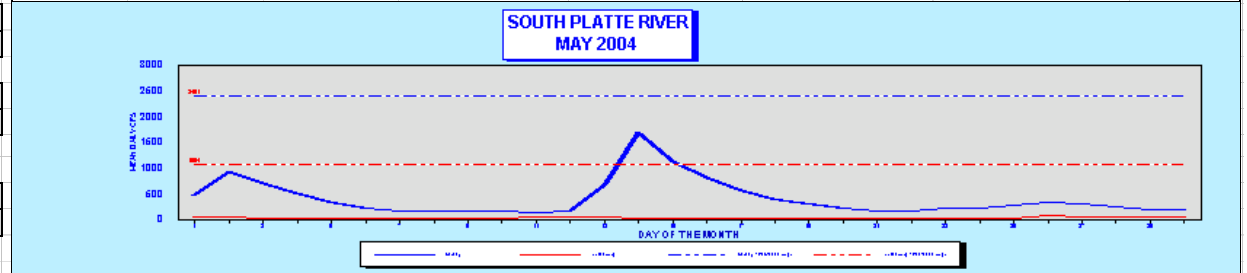
MONTH OF MAY 2004

04-Jun

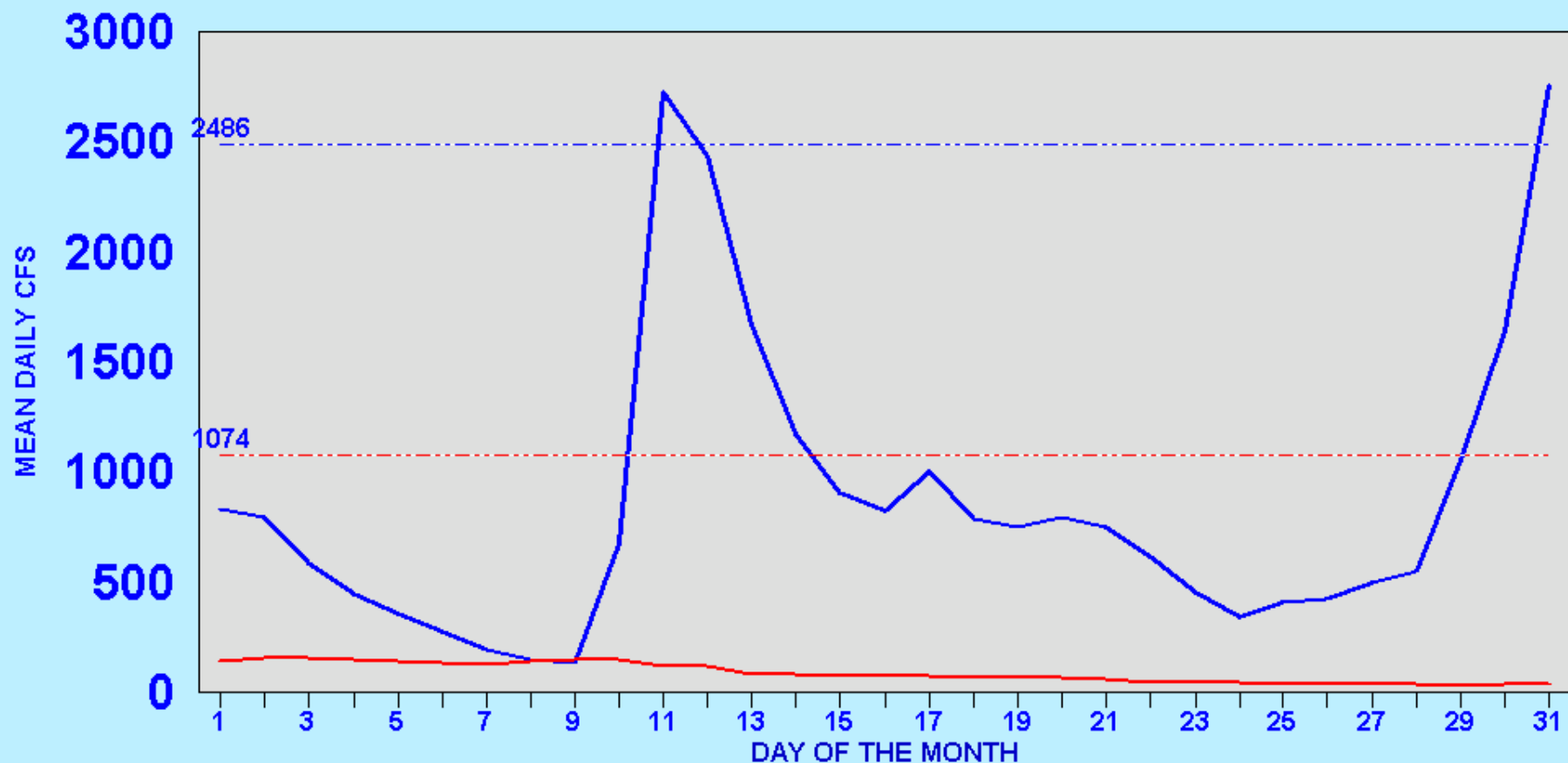
| RESERVOIR | FULL ALLOWABLE CAPACITY (ACRE FEET) | FIRST OF MONTH (ACRE FEET) | END OF MONTH (ACRE FEET) | DISTRICT | CHANGE IN STORAGE (ACRE FEET) | % CHANGE IN STORAGE BASED ON FIRST OF MONTH STORAGE | % OF CURRENT FULL ALLOWABLE CAPACITY | % OF CURRENT FULL ALLOWABLE CAPACITY THIS MONTH, (LAST YEAR) | SURCHARGE (ACRE FEET) |
|-----------------------|-------------------------------------|----------------------------|--------------------------|-----------|-------------------------------|---|--------------------------------------|--|-----------------------|
| JULESBURG | 22,666 | 21,650 | 20,504 | 64 | (1,146) | -5% | 90% | 96% | 0 |
| NORTH STERLING | 73,730 | 60,105 | 49,020 | 64 | (11,085) | -18% | 66% | 81% | 0 |
| PREWITT | 28,500 | 12,574 | 10,730 | 64 | (1,844) | -15% | 38% | 69% | 0 |
| JACKSON | 27,257 | 24,900 | 23,389 | 1 | (1,511) | -6% | 86% | 93% | 0 |
| EMPIRE | 37,700 | 21,131 | 16,077 | 1 | (5,054) | -24% | 43% | 54% | 0 |
| RIVERSIDE | 63,113 | 50,452 | 41,813 | 1 | (8,639) | -17% | 66% | 83% | 0 |
| BARR LAKE | 31,652 | 19,776 | 20,000 | 2 | 224 | 1% | 63% | 98% | 0 |
| CHEESMAN | 79,064 | 64,495 | 66,984 | 80 | 2,489 | 4% | 85% | 79% | 0 |
| ELEVEN MILE | 97,779 | 78,972 | 79,319 | 23 | 347 | 0% | 81% | 49% | 0 |
| SPINNEY | 53,651 | 22,285 | 26,487 | 23 | 4,202 | 19% | 49% | 36% | 0 |
| ANTERO | 20,015 | 0 | 1,354 | 23 | 1,354 | ERR | 7% | 0% | 0 |

| RIVER GAGES | MEAN DAILY FLOW (CFS) |
|-----------------------------------|-----------------------|
| KERSEY | 399 |
| JULESBURG | 34 |
| THIS MONTH LAST YEAR | |
| KERSEY | 871 |
| JULESBURG | 87 |
| MEAN FOR PERIOD OF RECORD* | |
| KERSEY | 2401 |
| JULESBURG | 1,064 |

* 1976-2002
1902-2002



SOUTH PLATTE RIVER MAY 2003



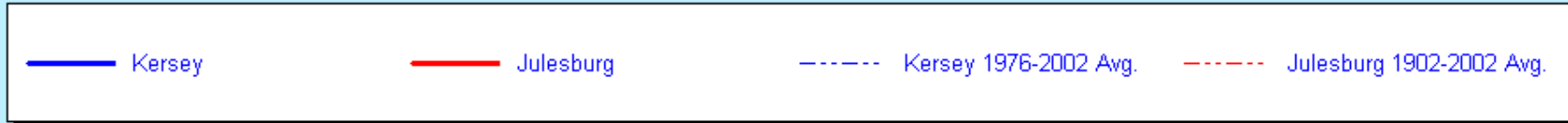
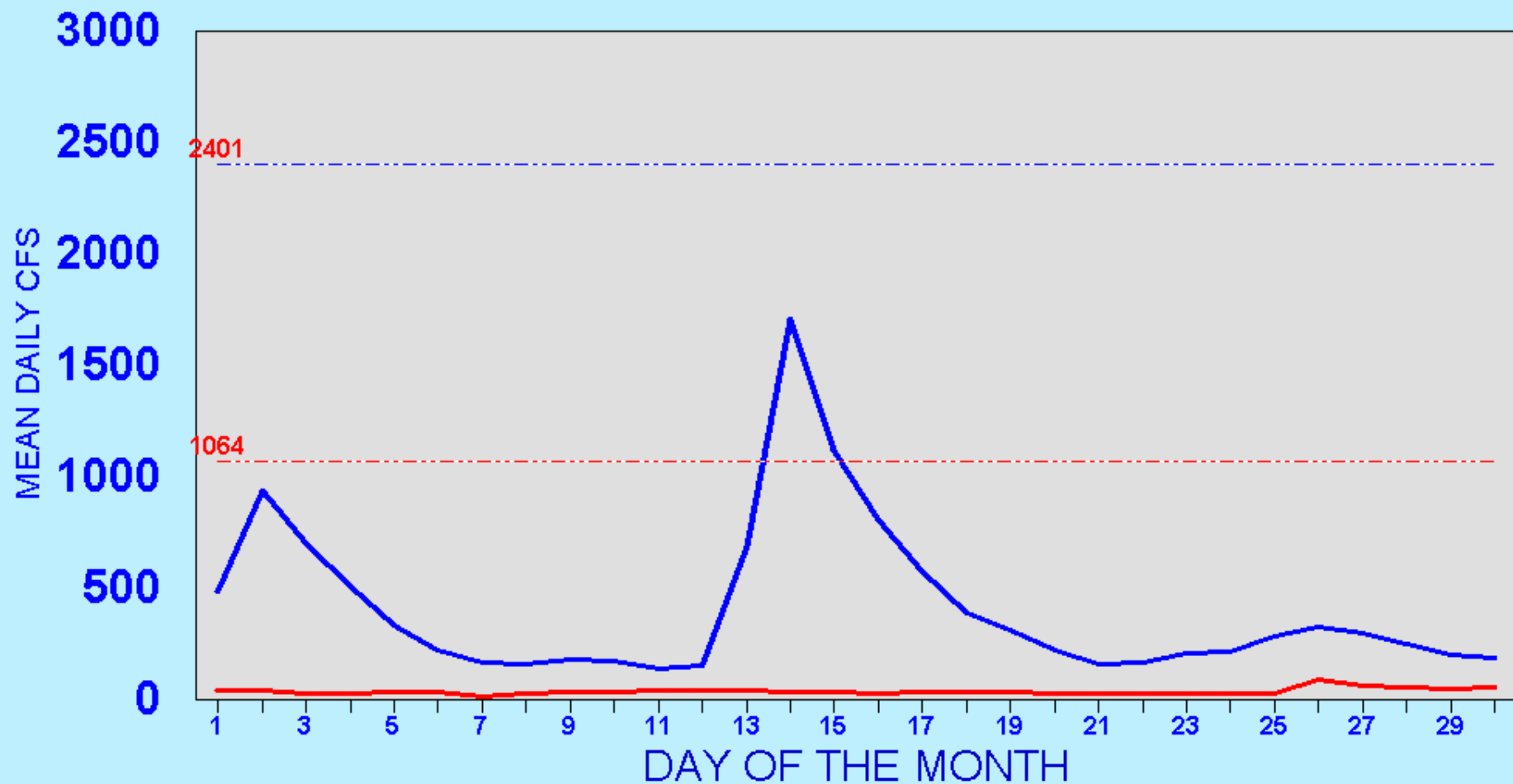
— KERSEY

— JULESBURG

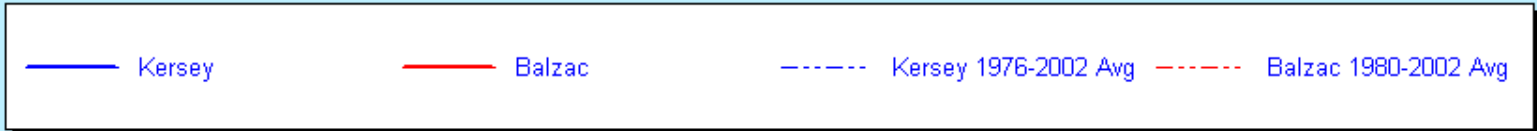
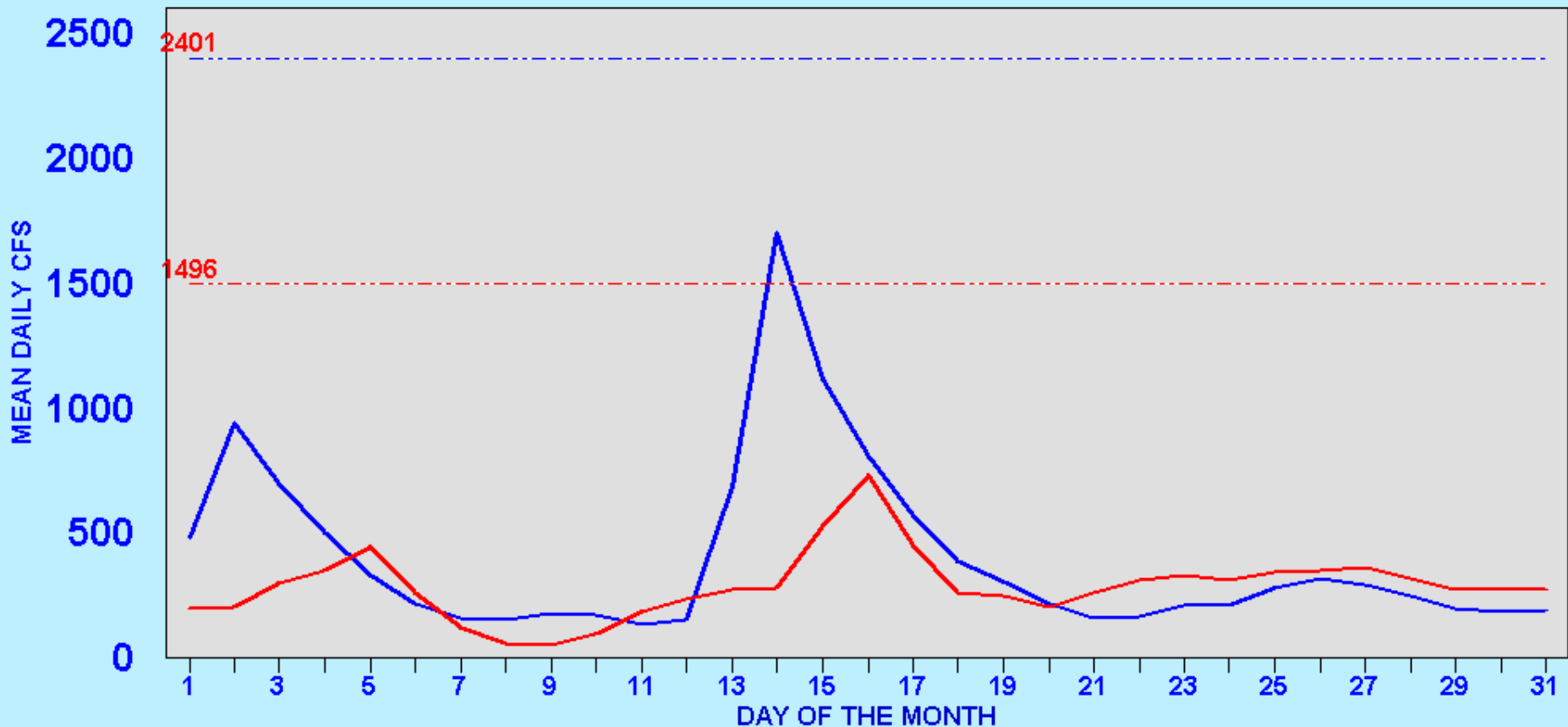
- - - Kersey 1976-2001 Avg

- - - Julesburg 1902-2001 Avg

SOUTH PLATTE RIVER MAY 2004



Kersey, Balzac MAY 2004



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

South Platte River at Kersey

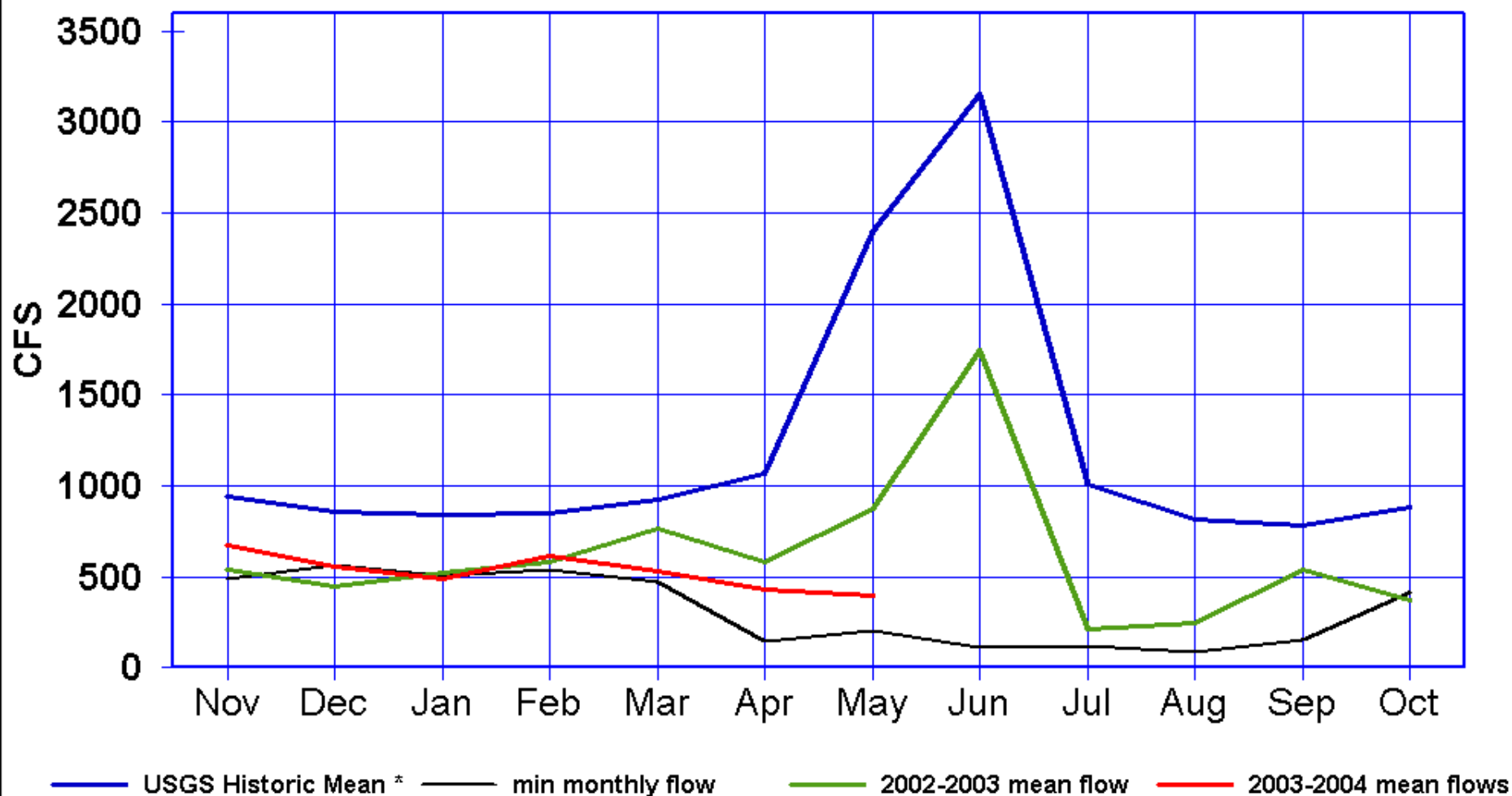
South Platte River at Julesburg

| | 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 | 399 | | May | 1064 | 9922 | 1980 | 24.1 | 1911 | 34 | |
| 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 | | | | | | | |

North Fork of The South
Platte at Grant weir

South Platte River at Kersey

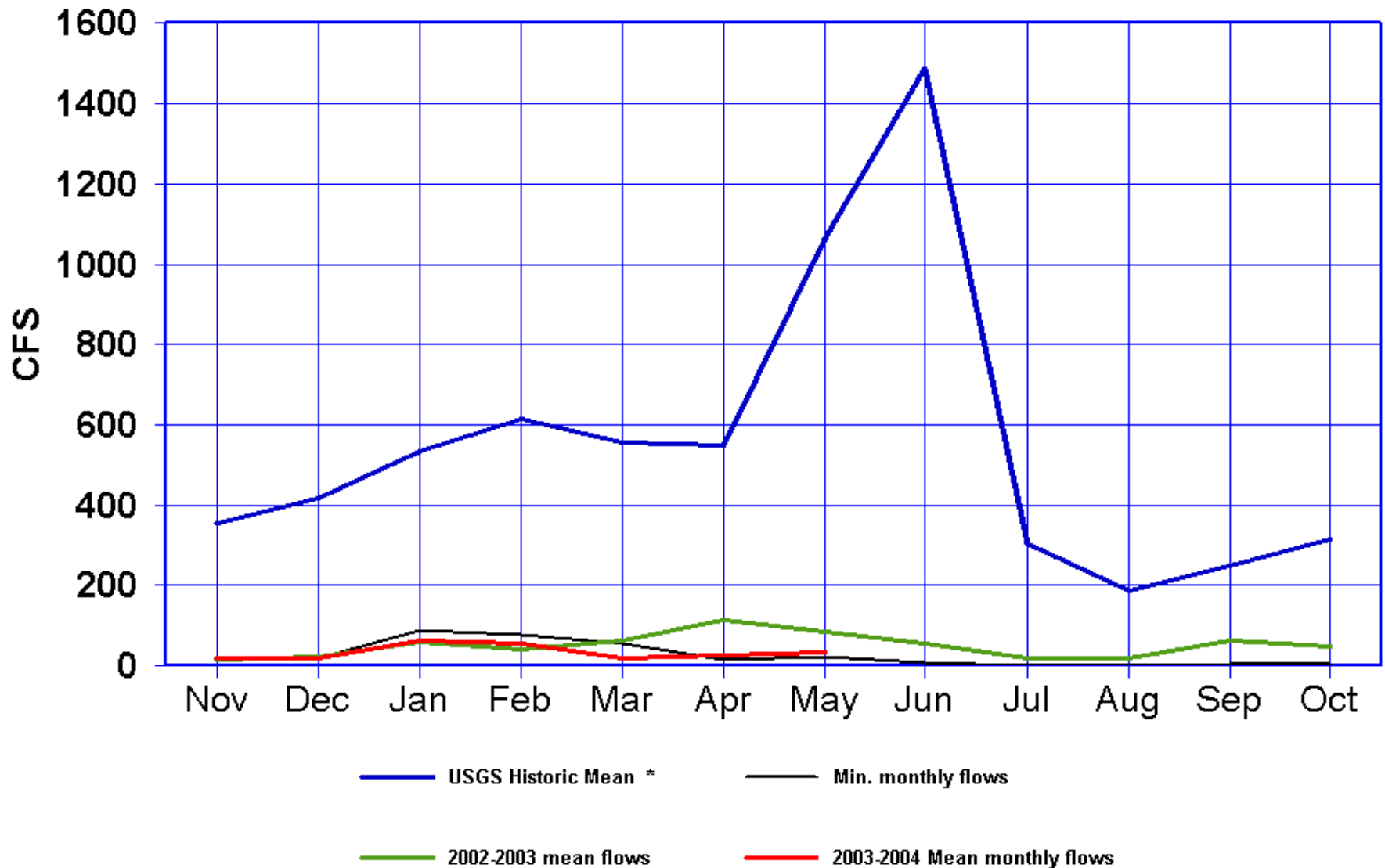
Irrigation Water Year*



*1976-2002

South Platte River at Julesburg

Irrigation Water Year*



*1902-2002

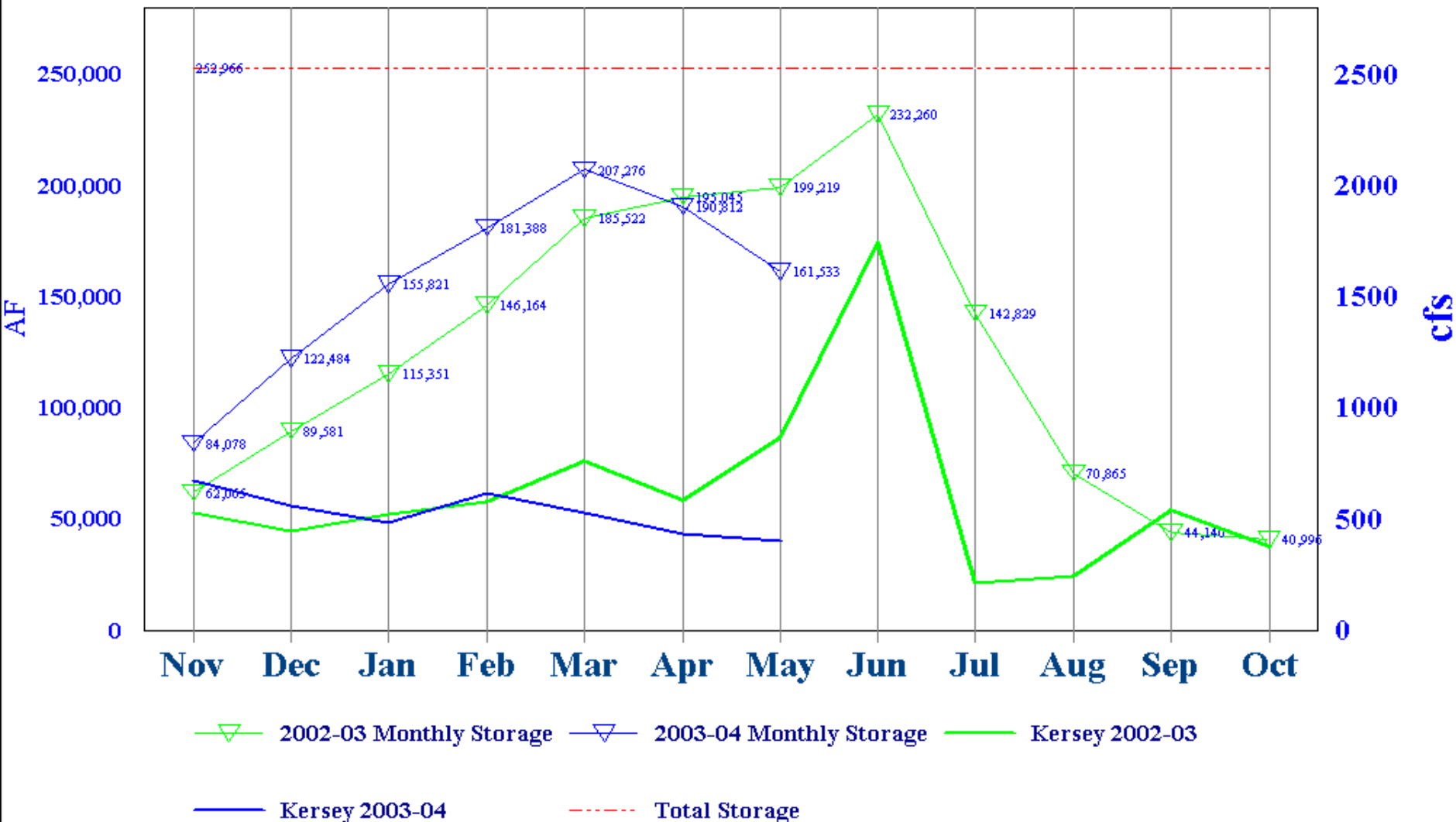
Next 4 slides show Reservoir storage below and above Kersey



Chart Recorder at Grant

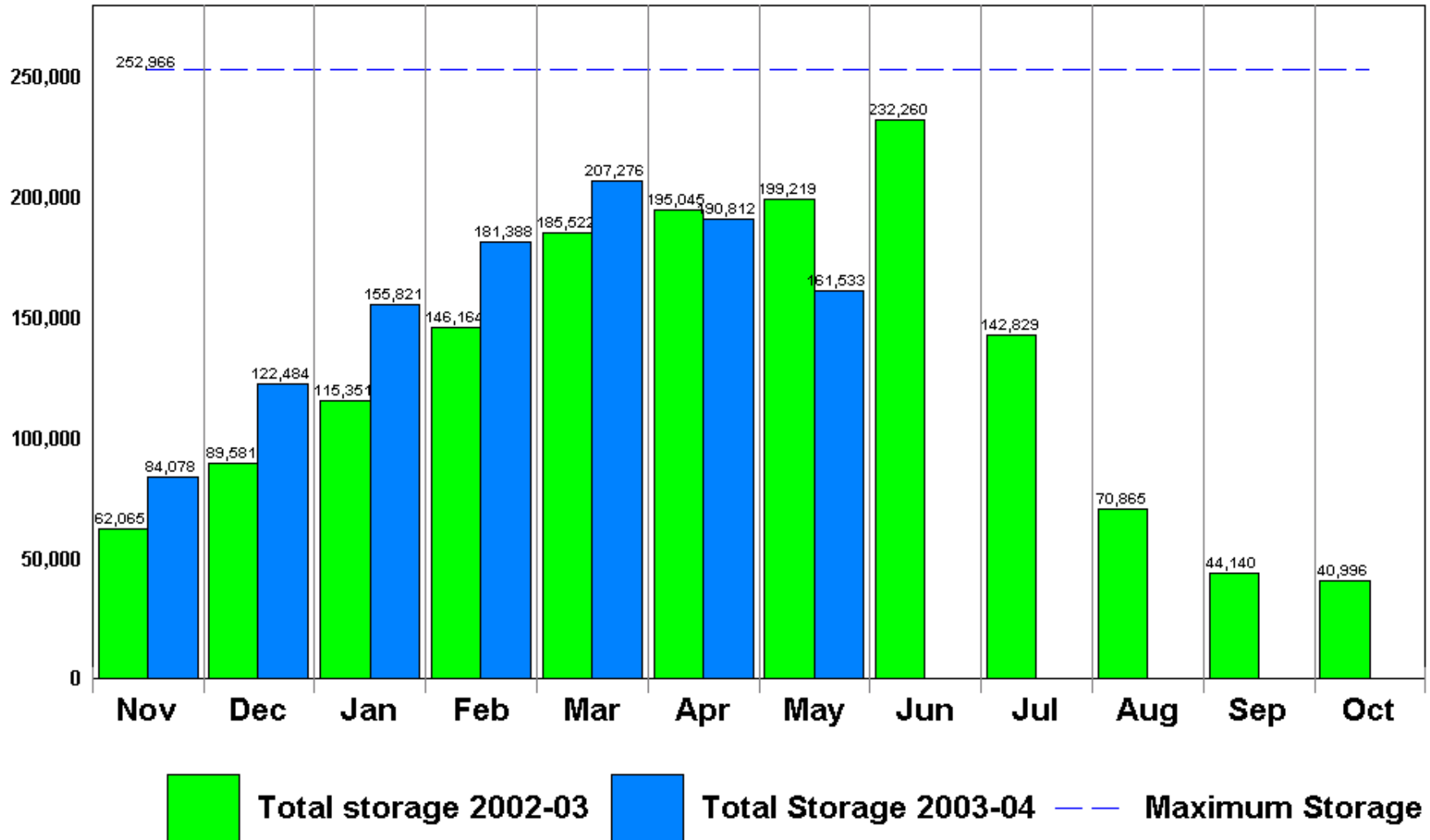
Reservoir Storage below Kersey

Selected Reservoirs*



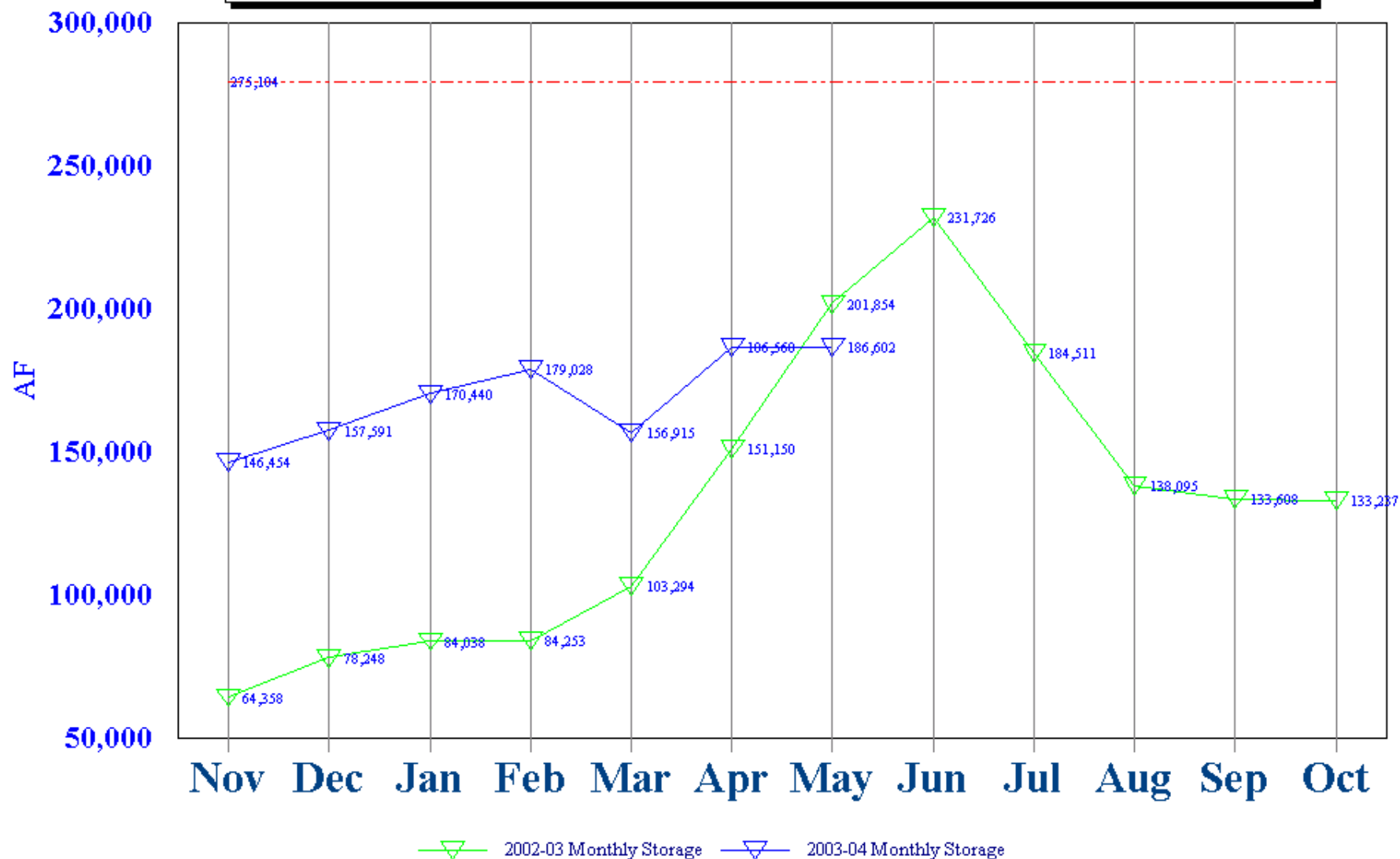
*Empire, Riverside, Jackson, Prewitt, N. Sterling, Julesburg. by jhl

South Platte Reservoirs Storage below Kersey*



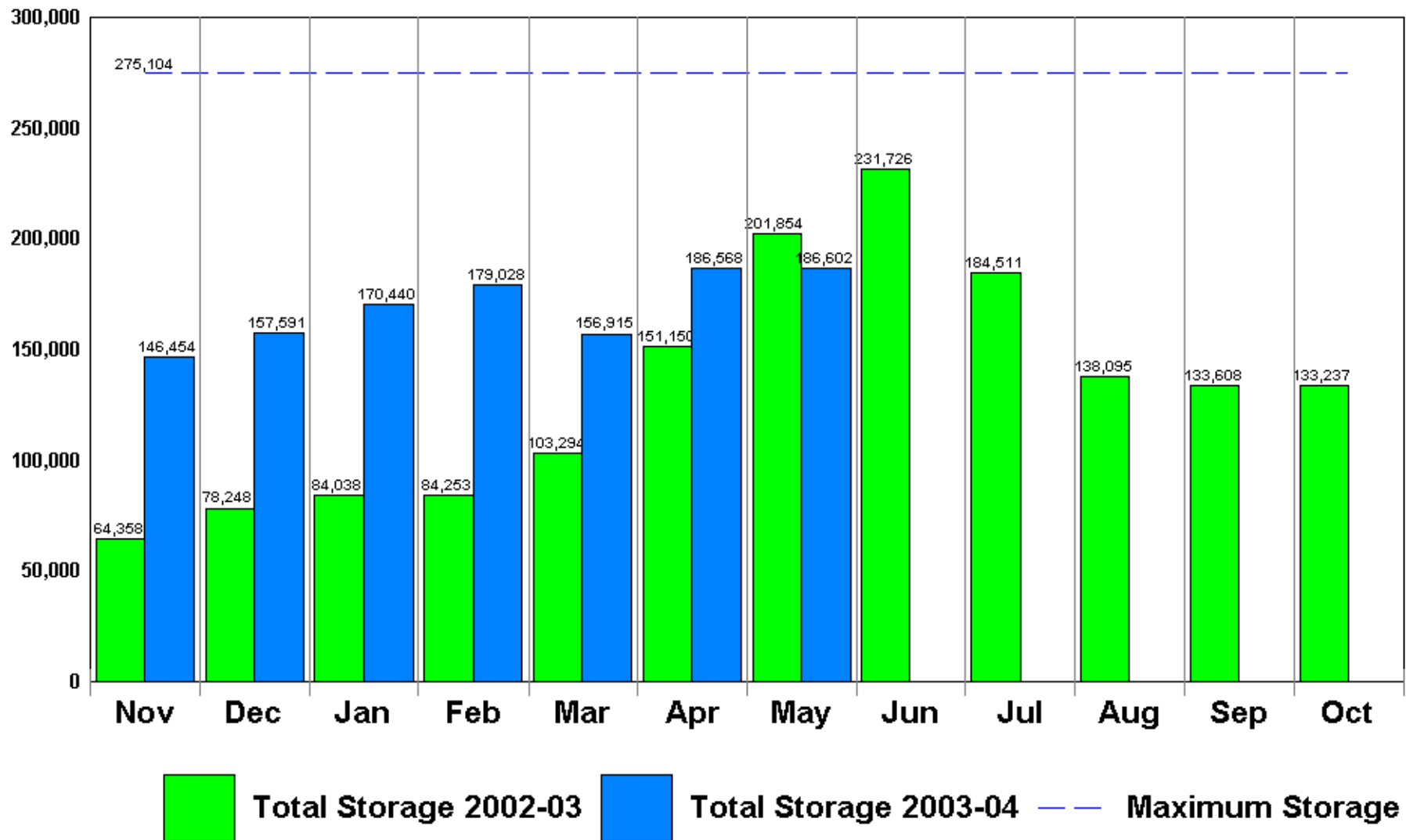
Reservoir Storage above Kersey

Selected Reservoirs*



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

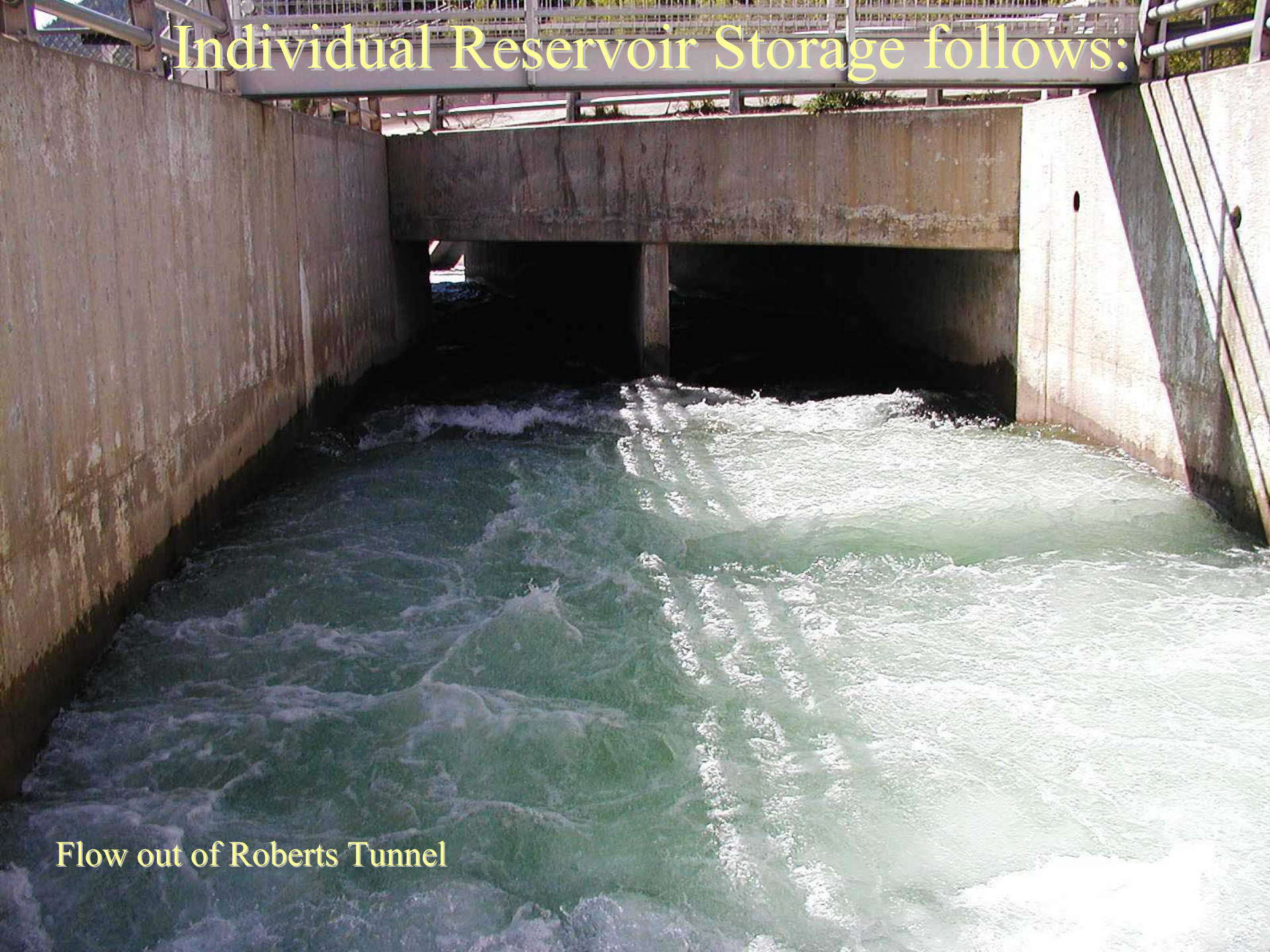
South Platte Reservoirs Storage above Kersey*



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

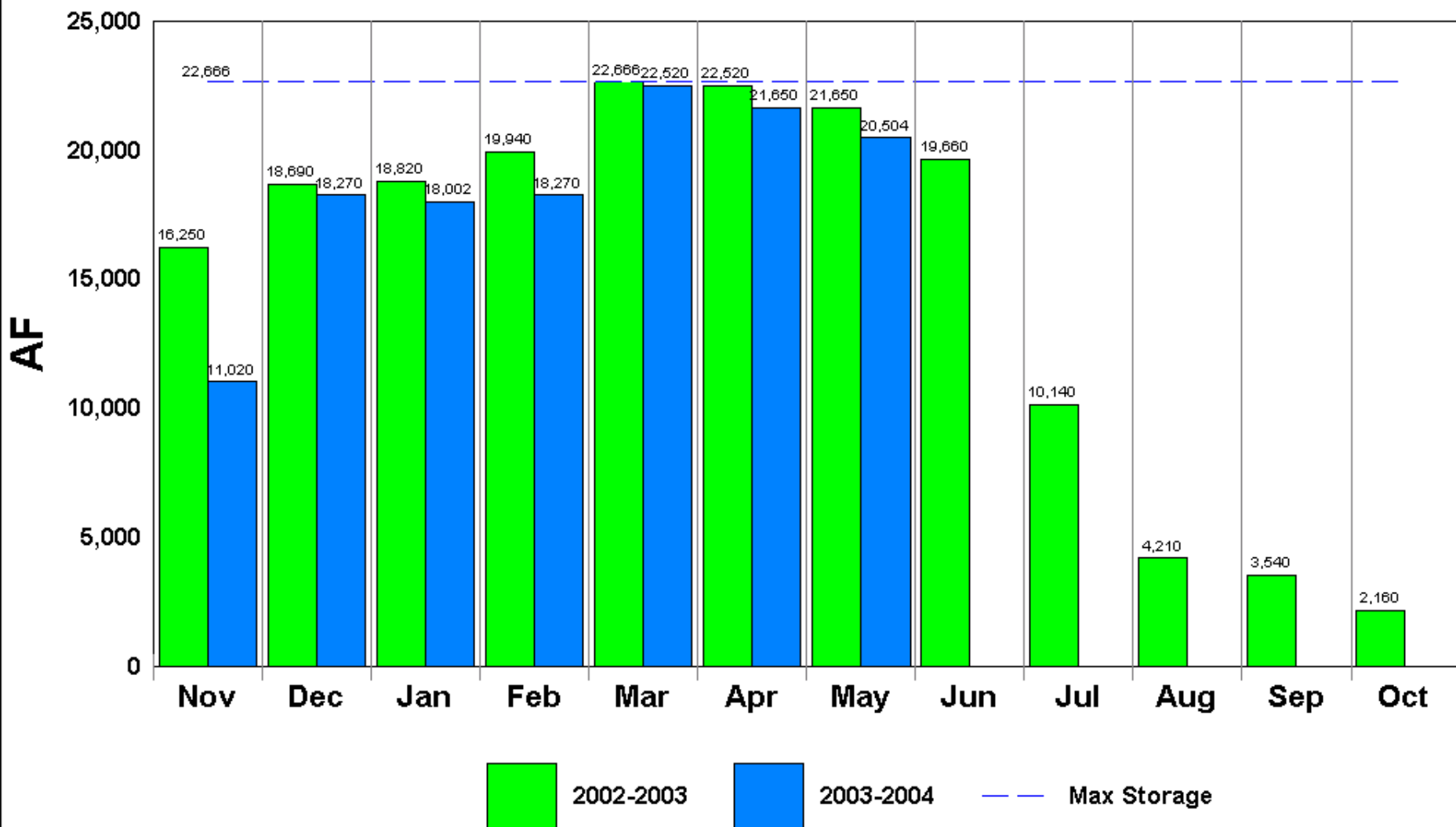
Individual Reservoir Storage follows:

Flow out of Roberts Tunnel



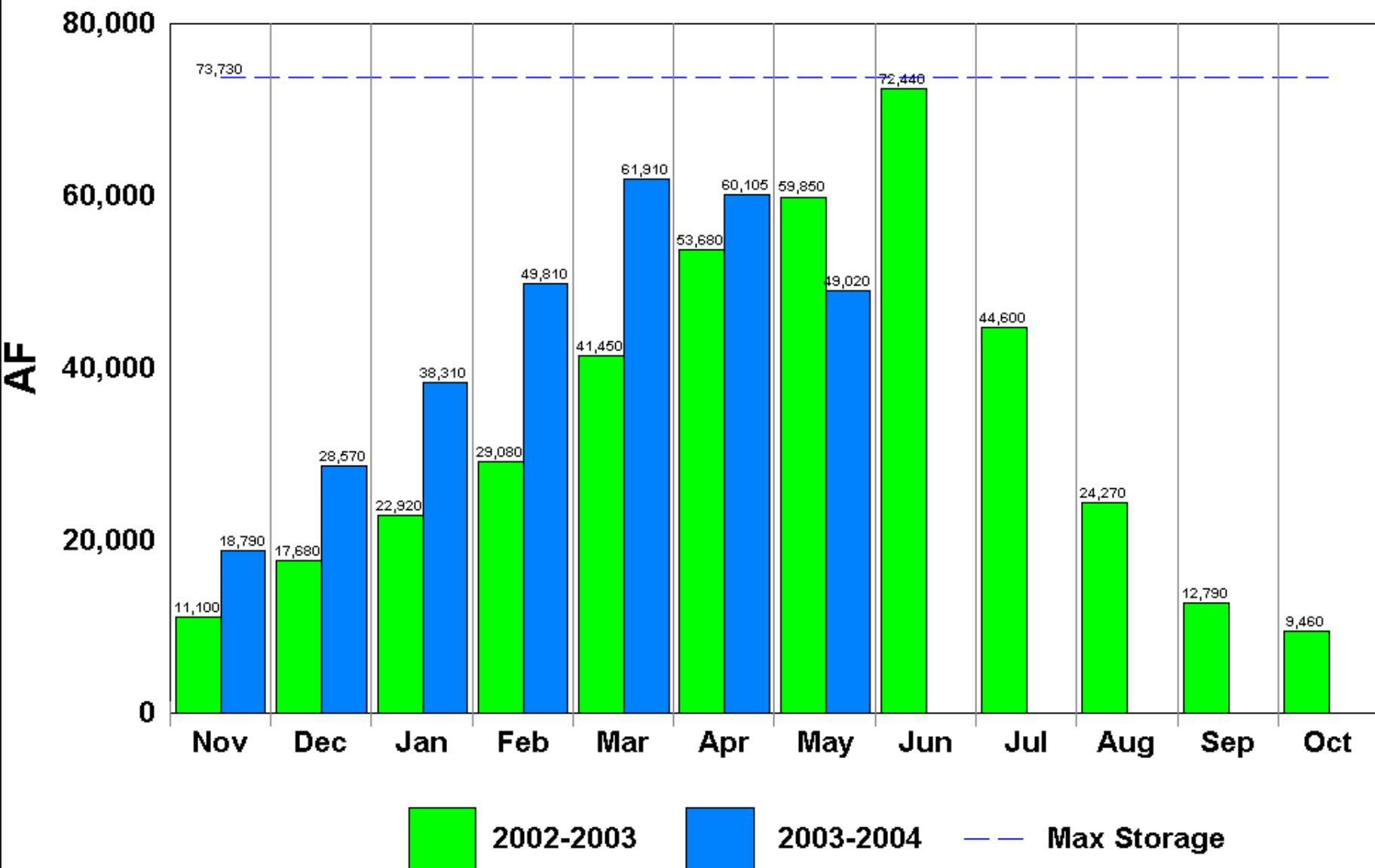
Julesburg Reservoir

(Agricultural)



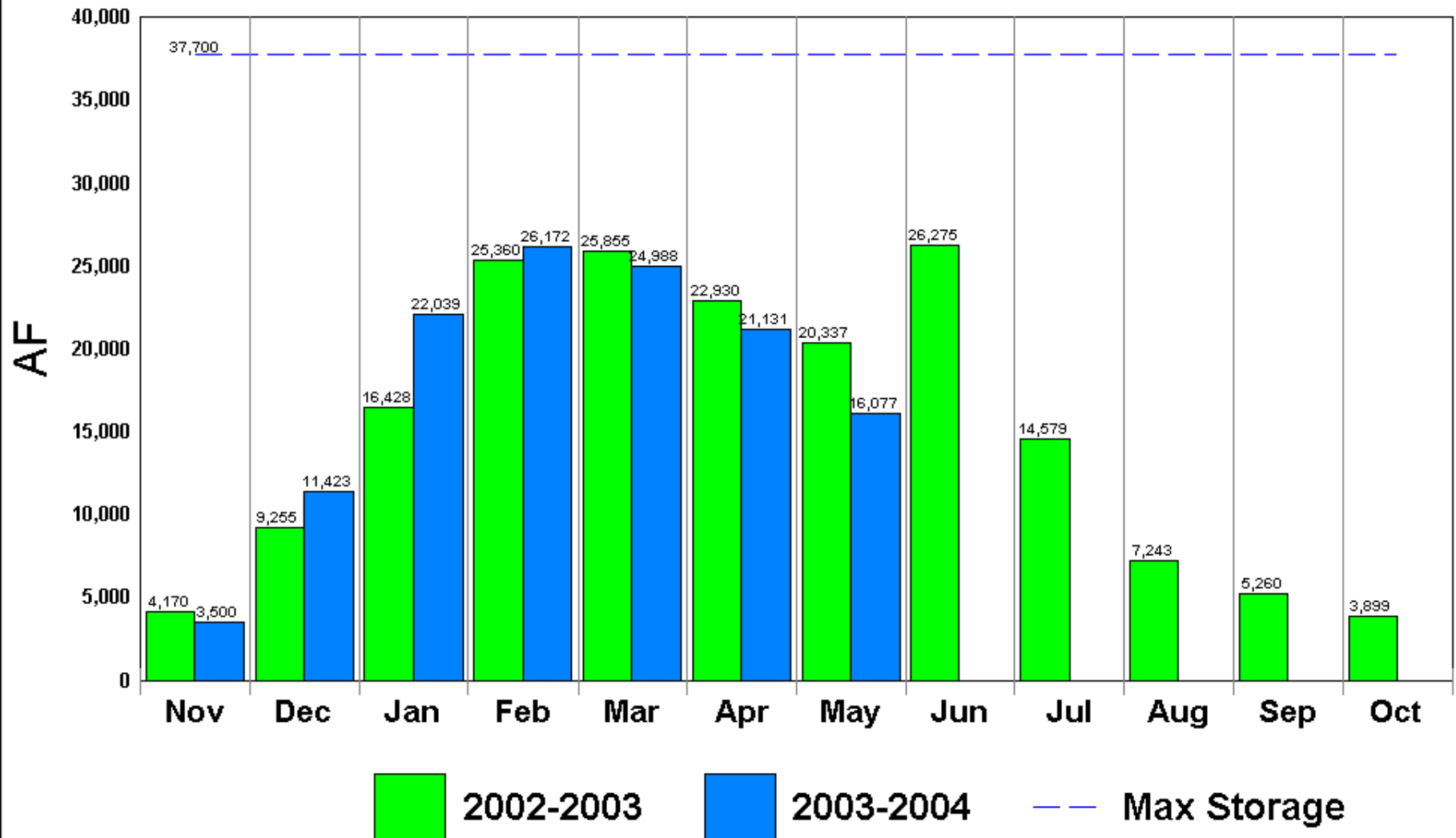
N. Sterling Reservoir

(Agricultural)



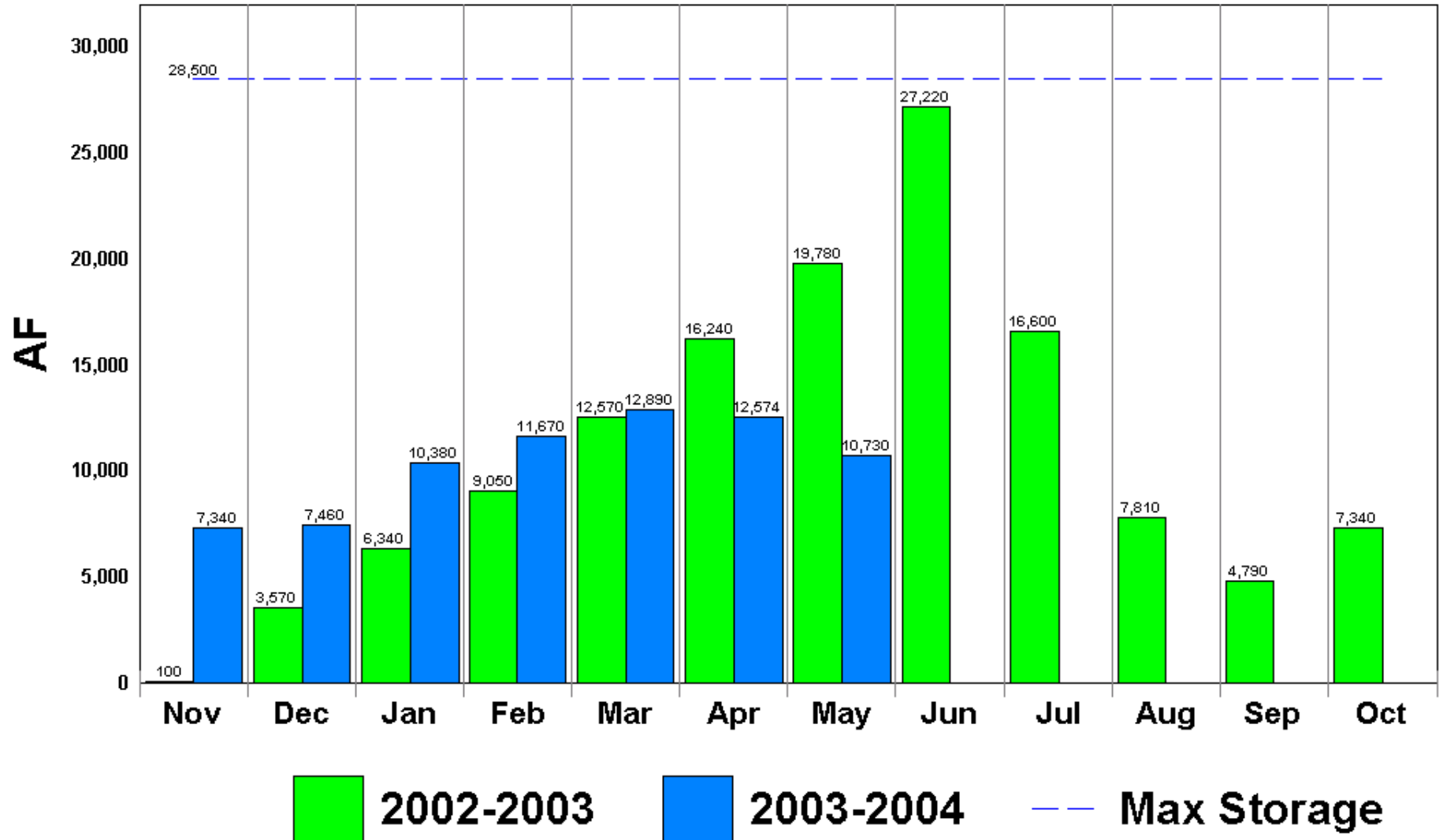
Empire Reservoir

(Agricultural)



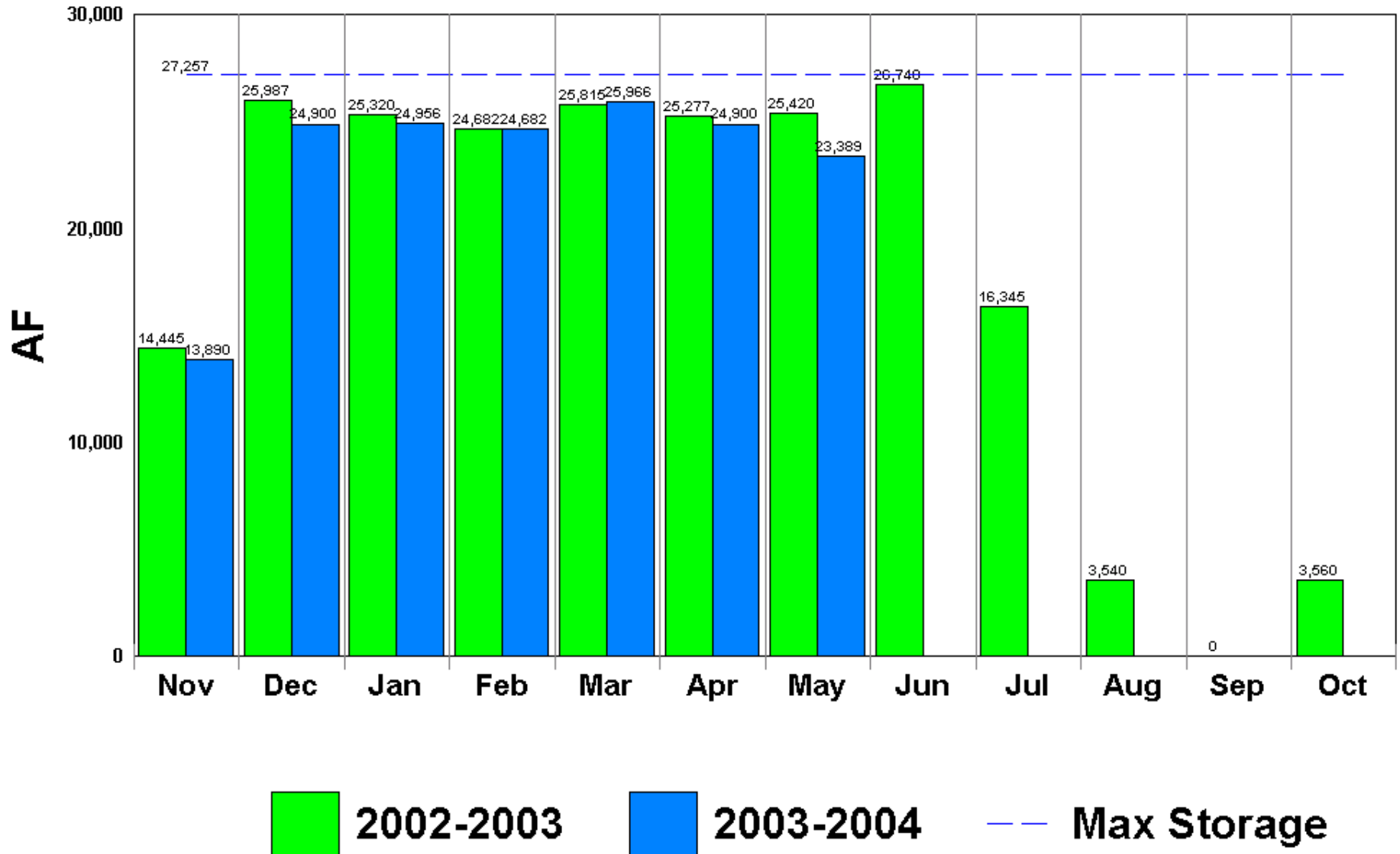
Prewitt Reservoir

(Agricultural)



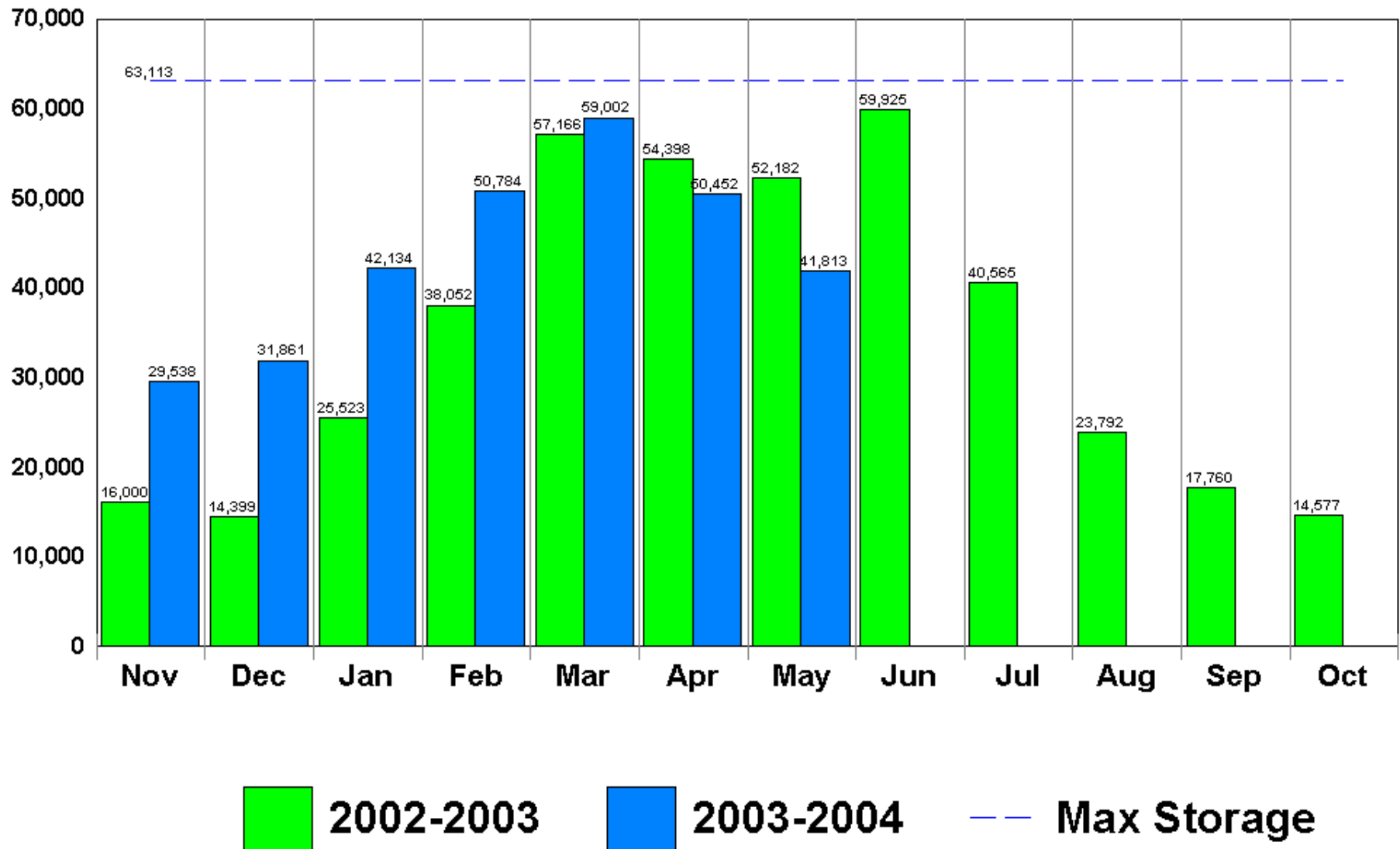
Jackson Reservoir

(Agricultural)



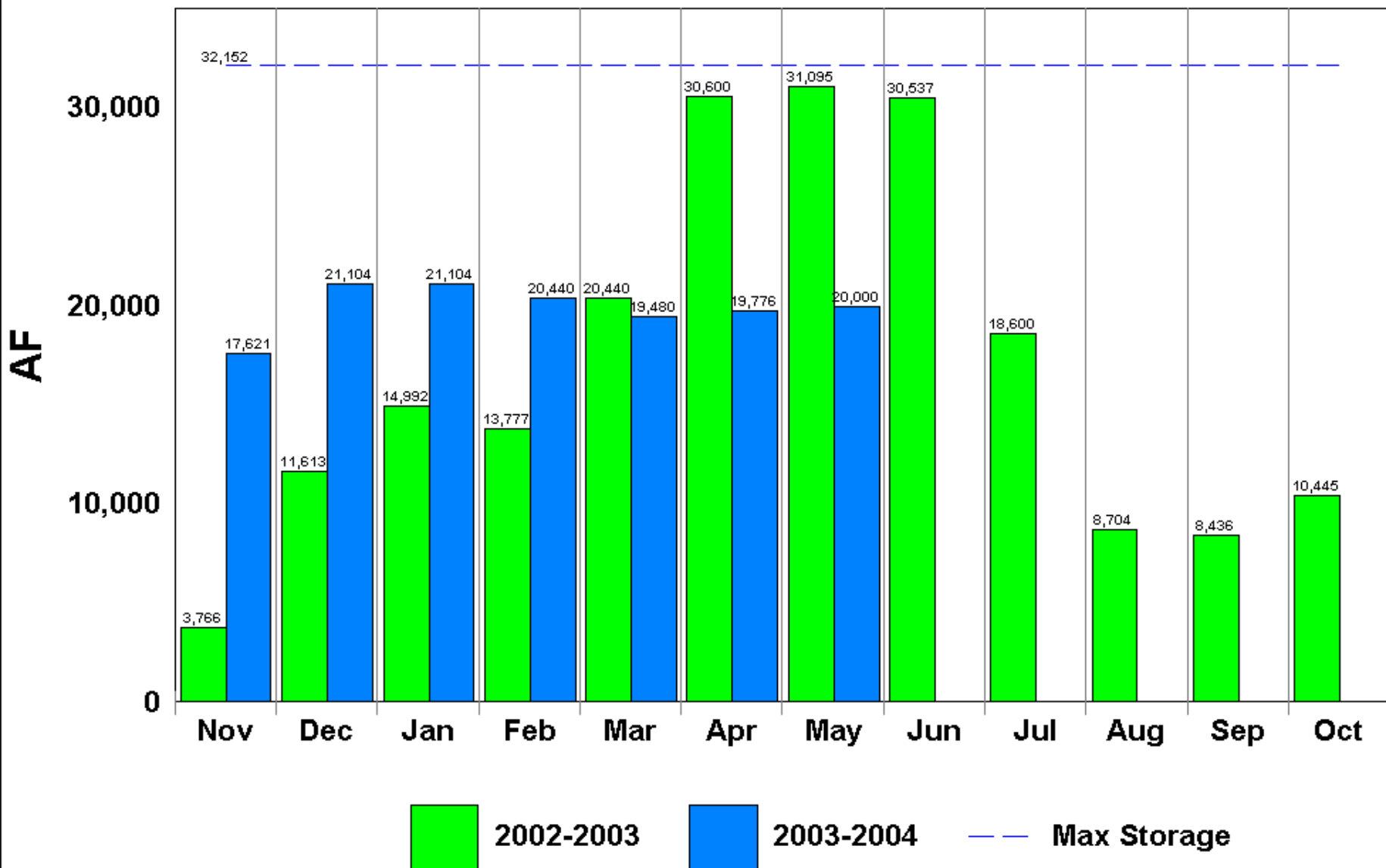
Riverside Reservoir

(Agricultural)



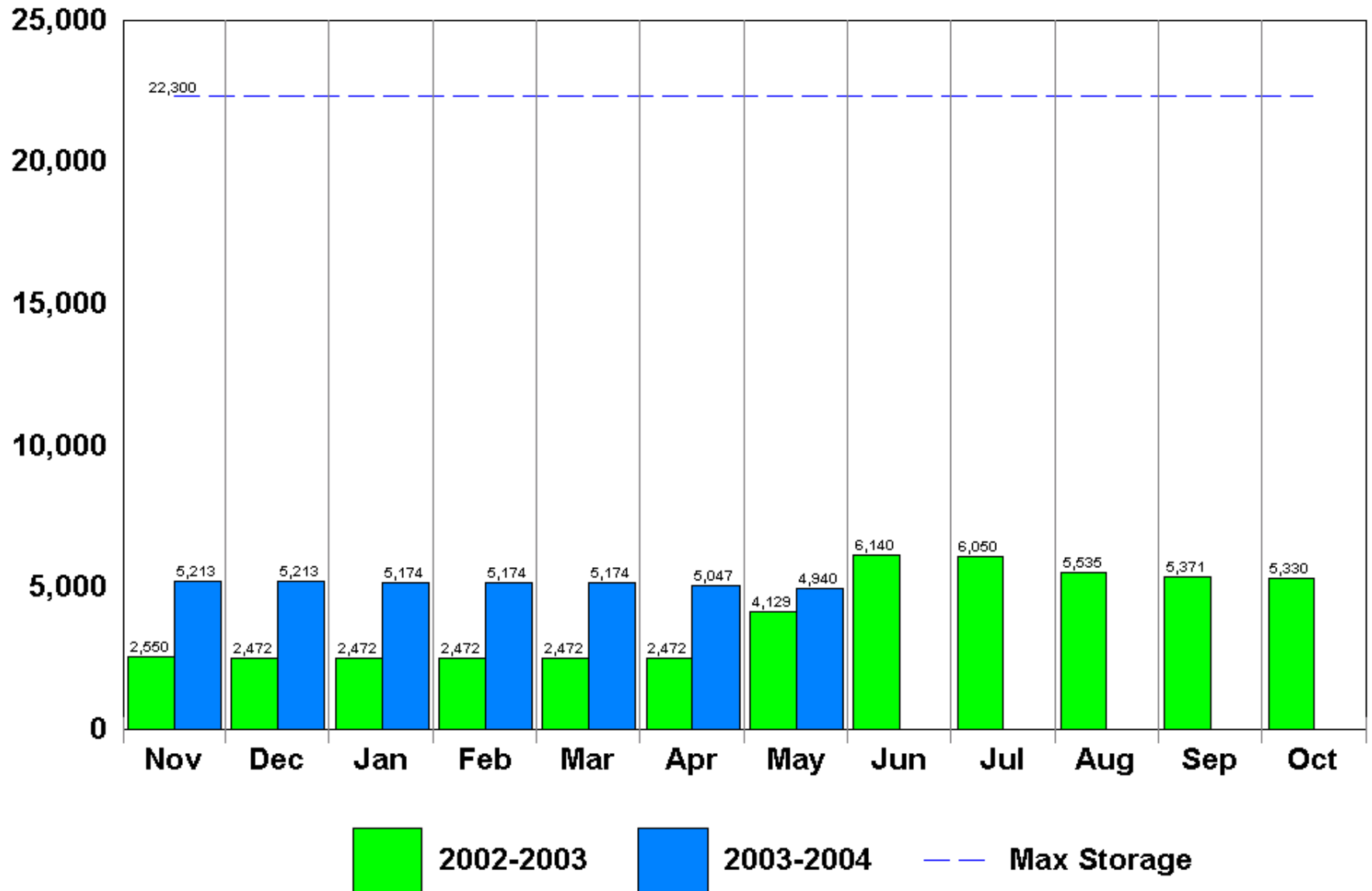
Barr Lake

(Agricultural)



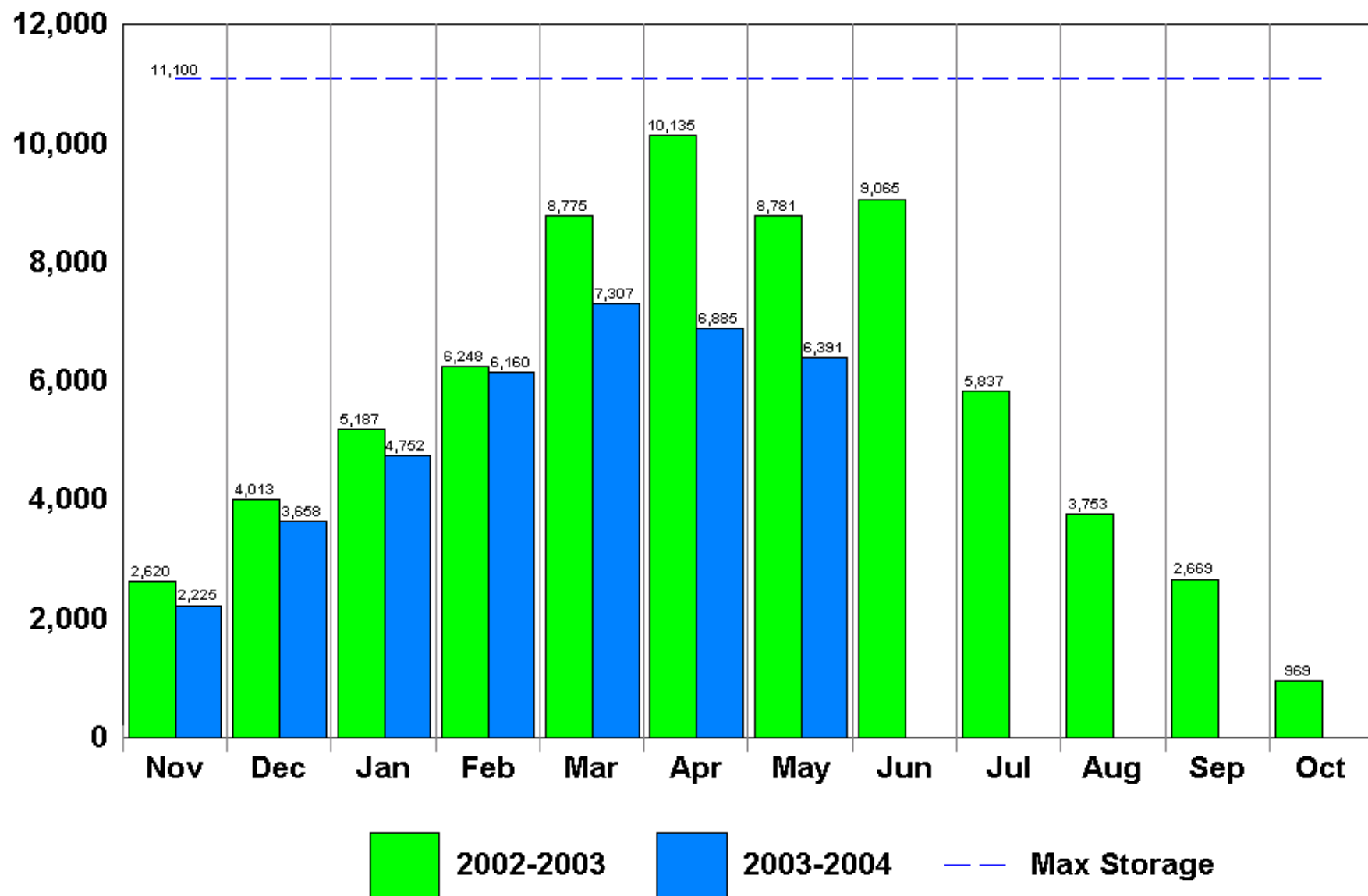
Cobb Lake

(Agricultural)



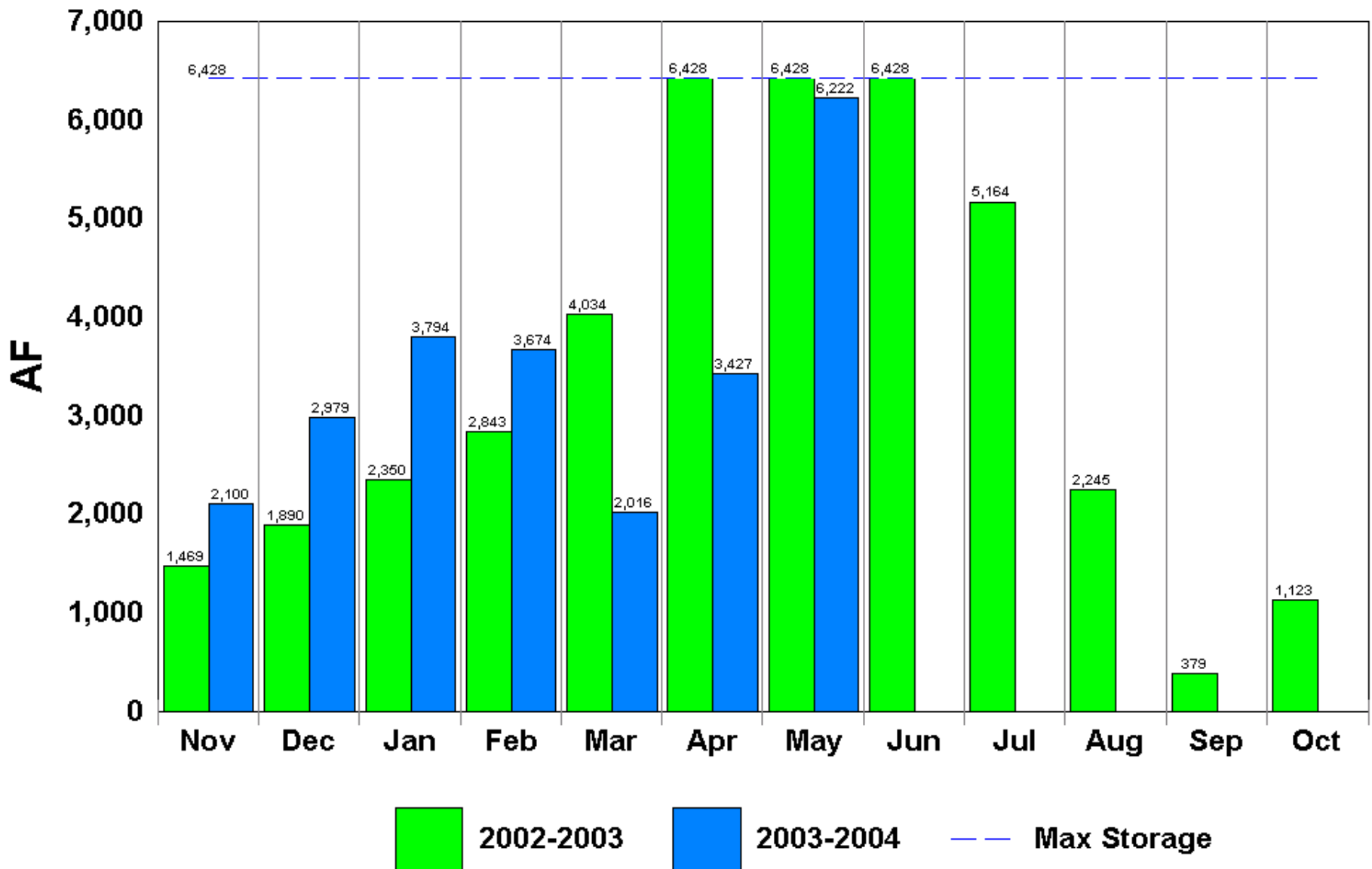
Fossil Creek Reservoir

(Agricultural)



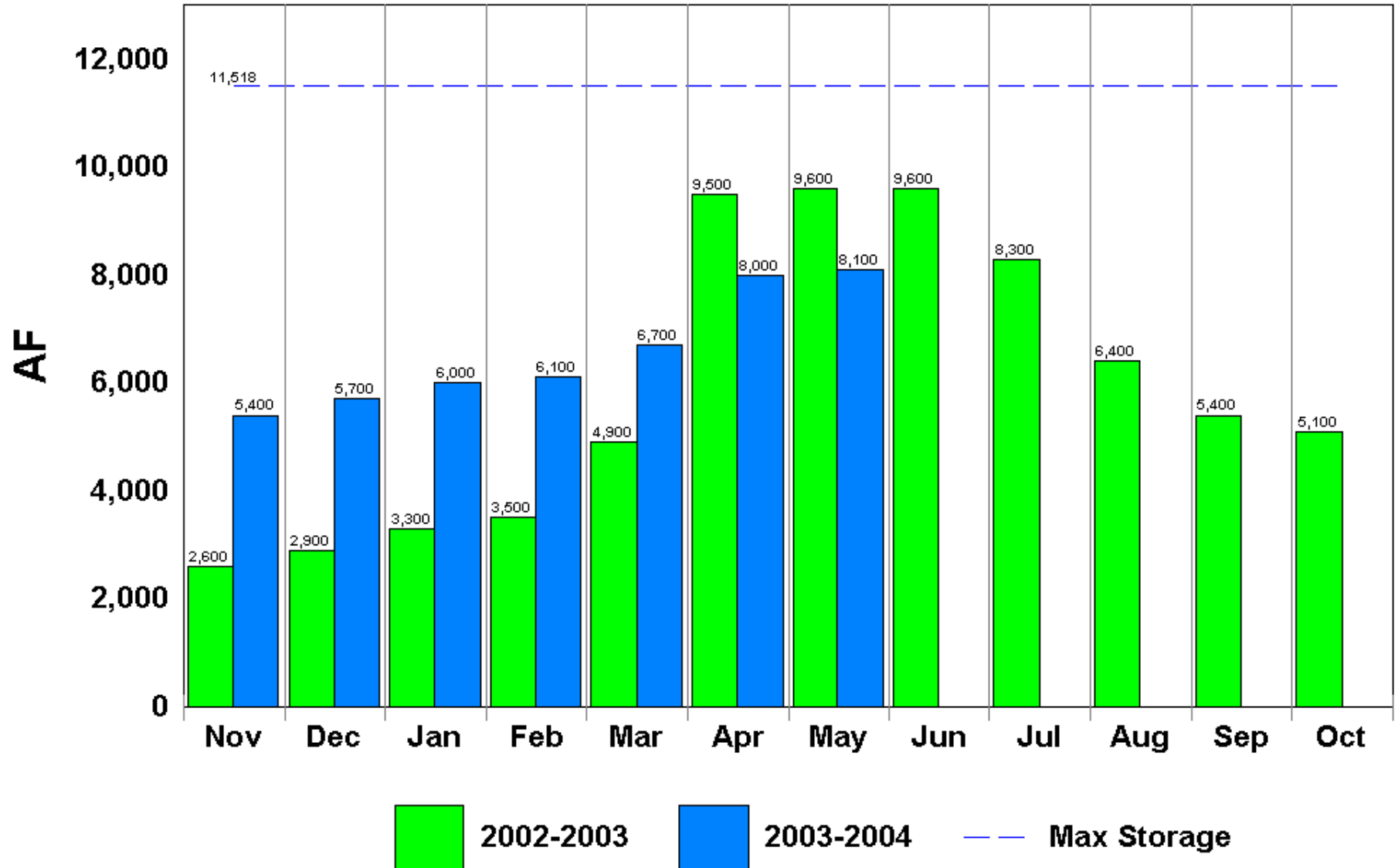
Halligan Reservoir

(Agricultural)



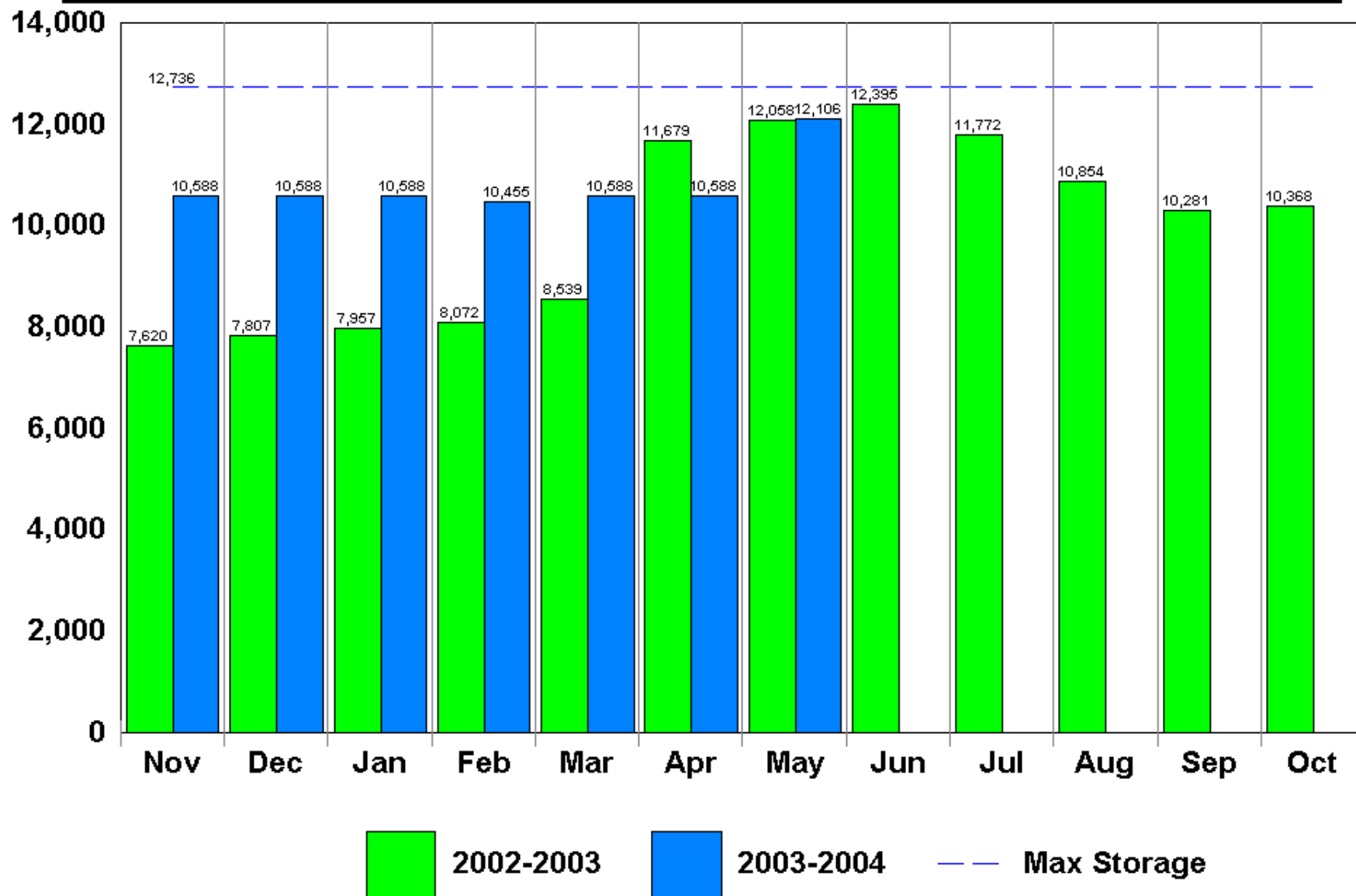
Marshall Lake

(Agricultural)



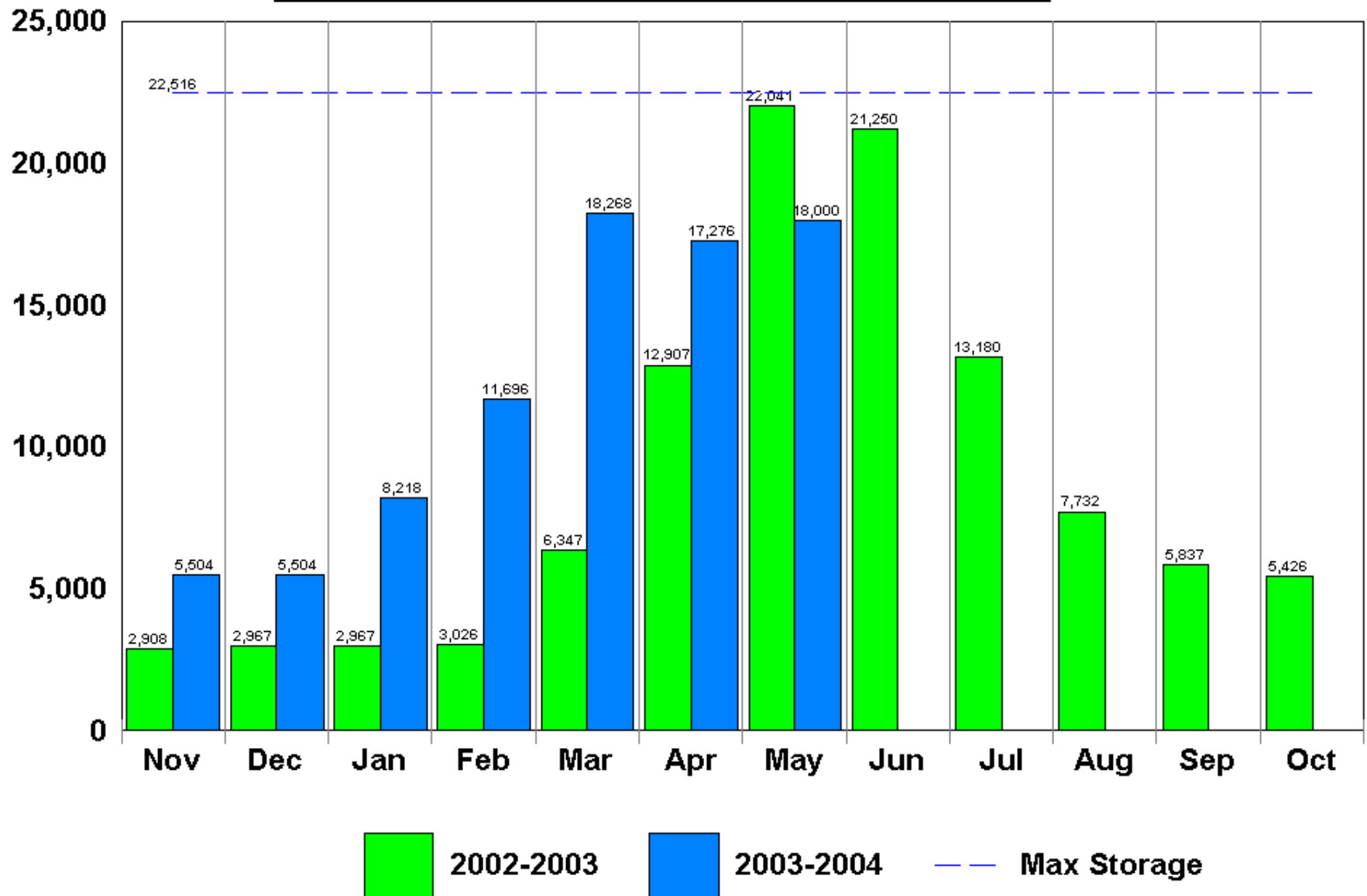
Loveland Greeley Reservoir

(Agricultural)



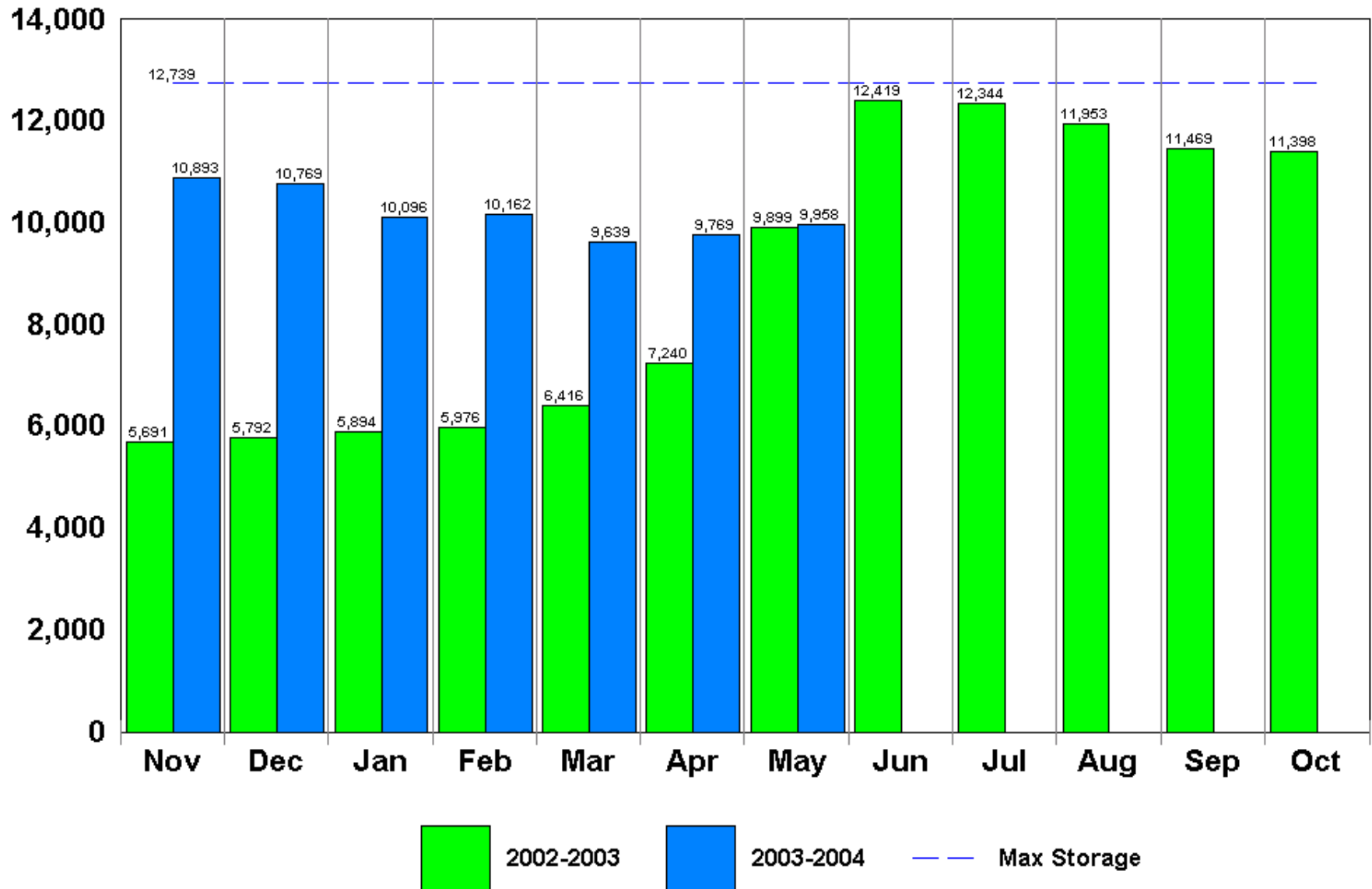
Milton Reservoir

(Agricultural)



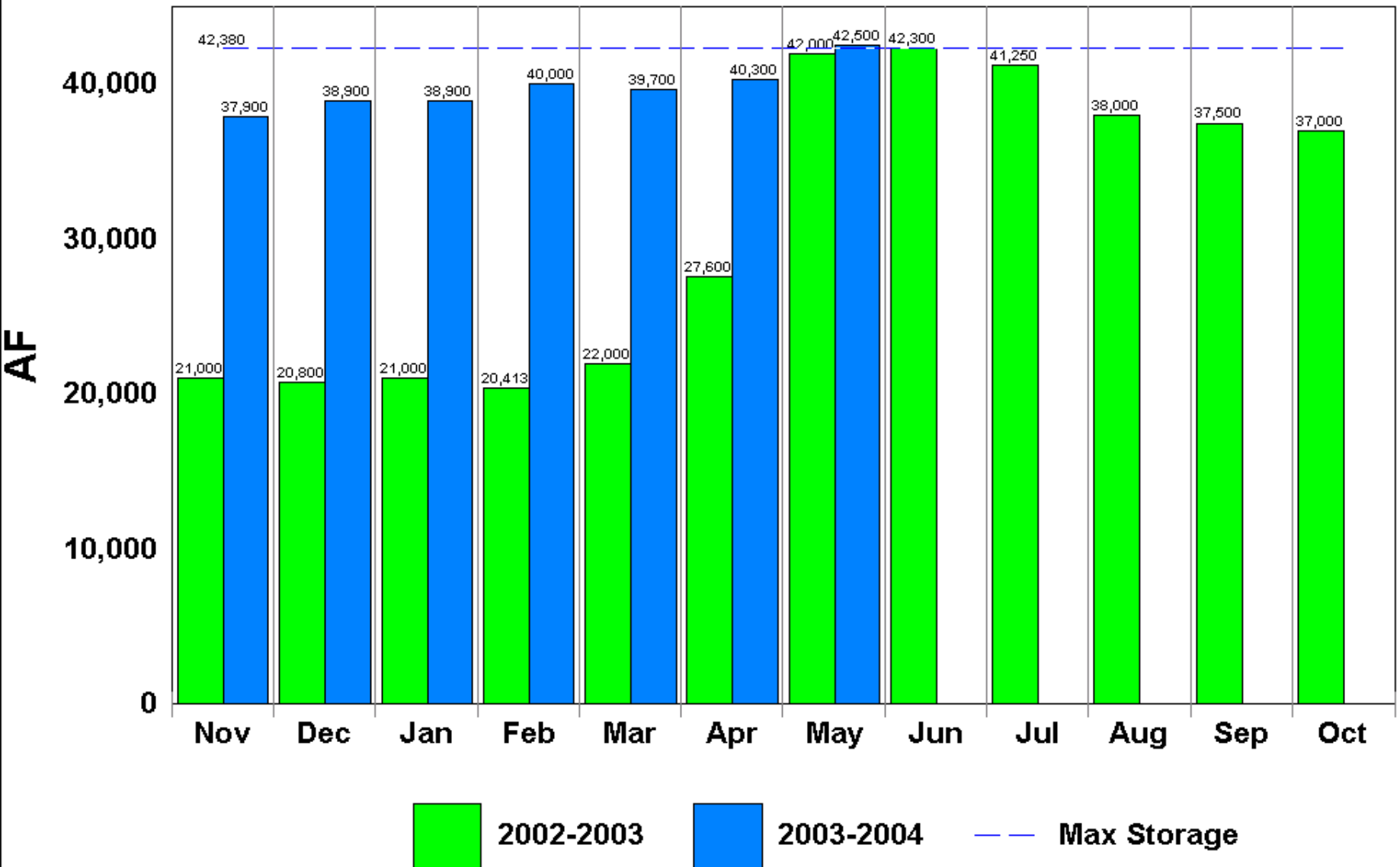
Union Reservoir

(Agricultural)



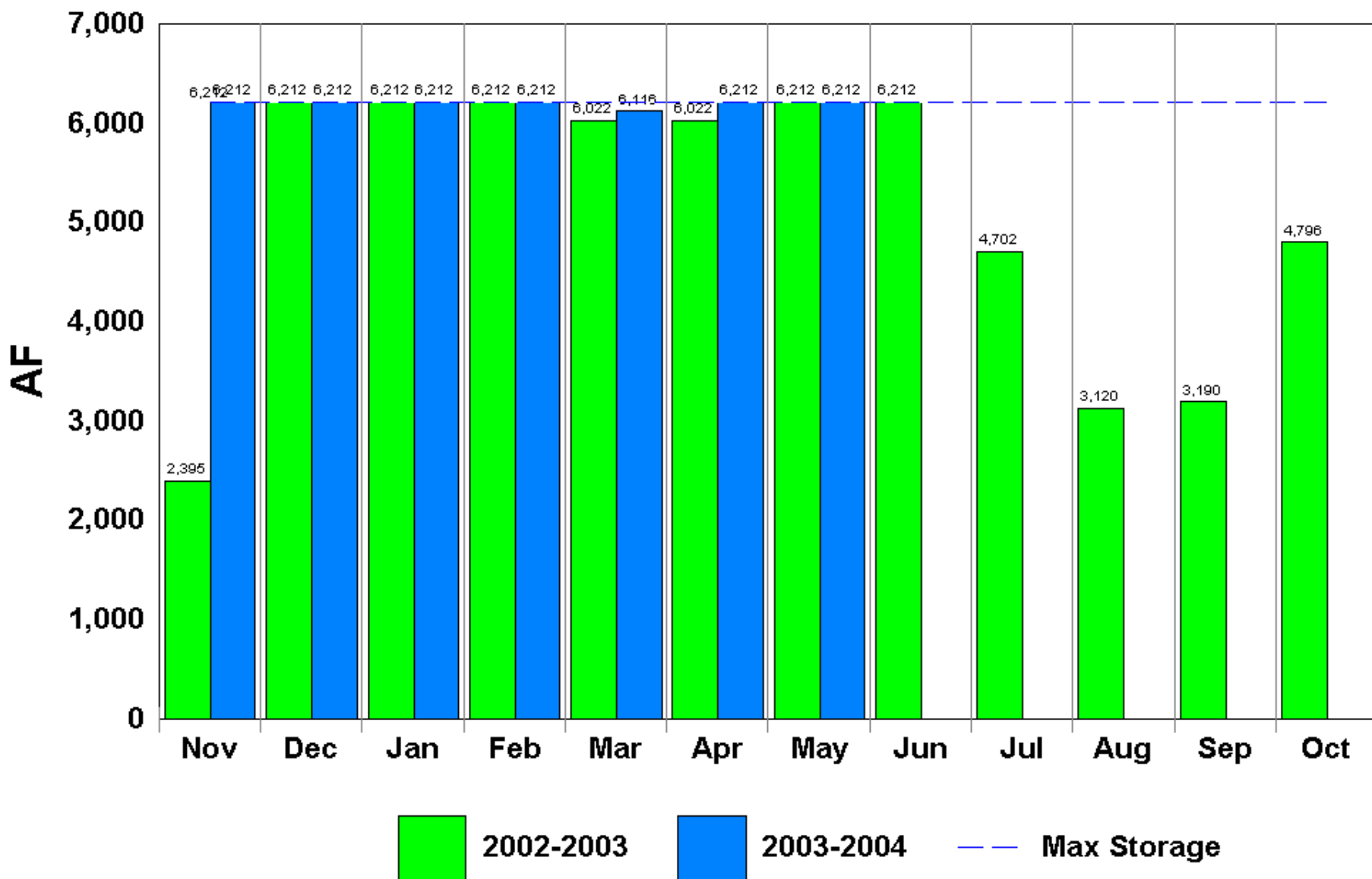
Standley Lake

(Agricultural)



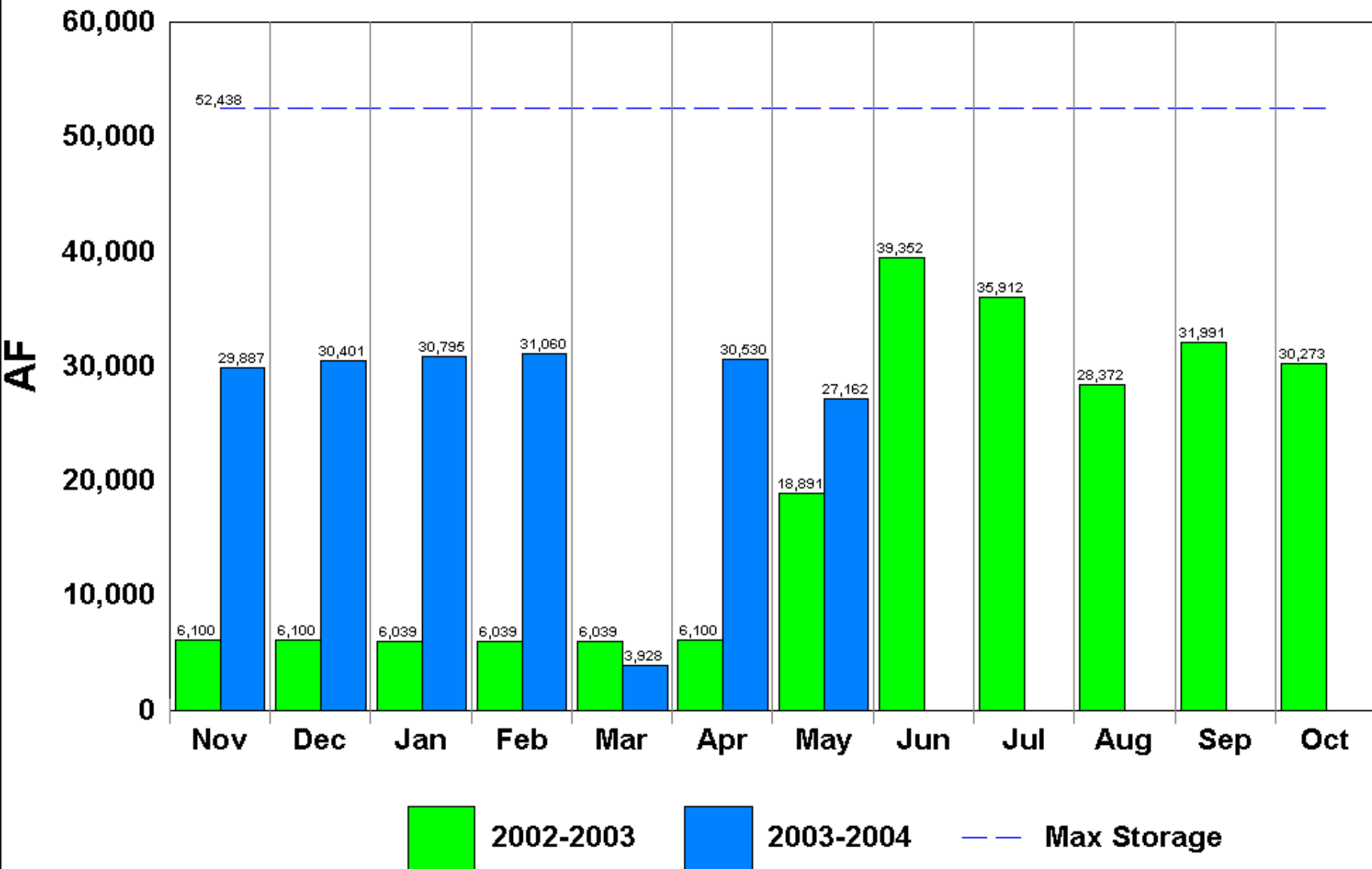
Lower Latham Reservoir

(Agricultural)



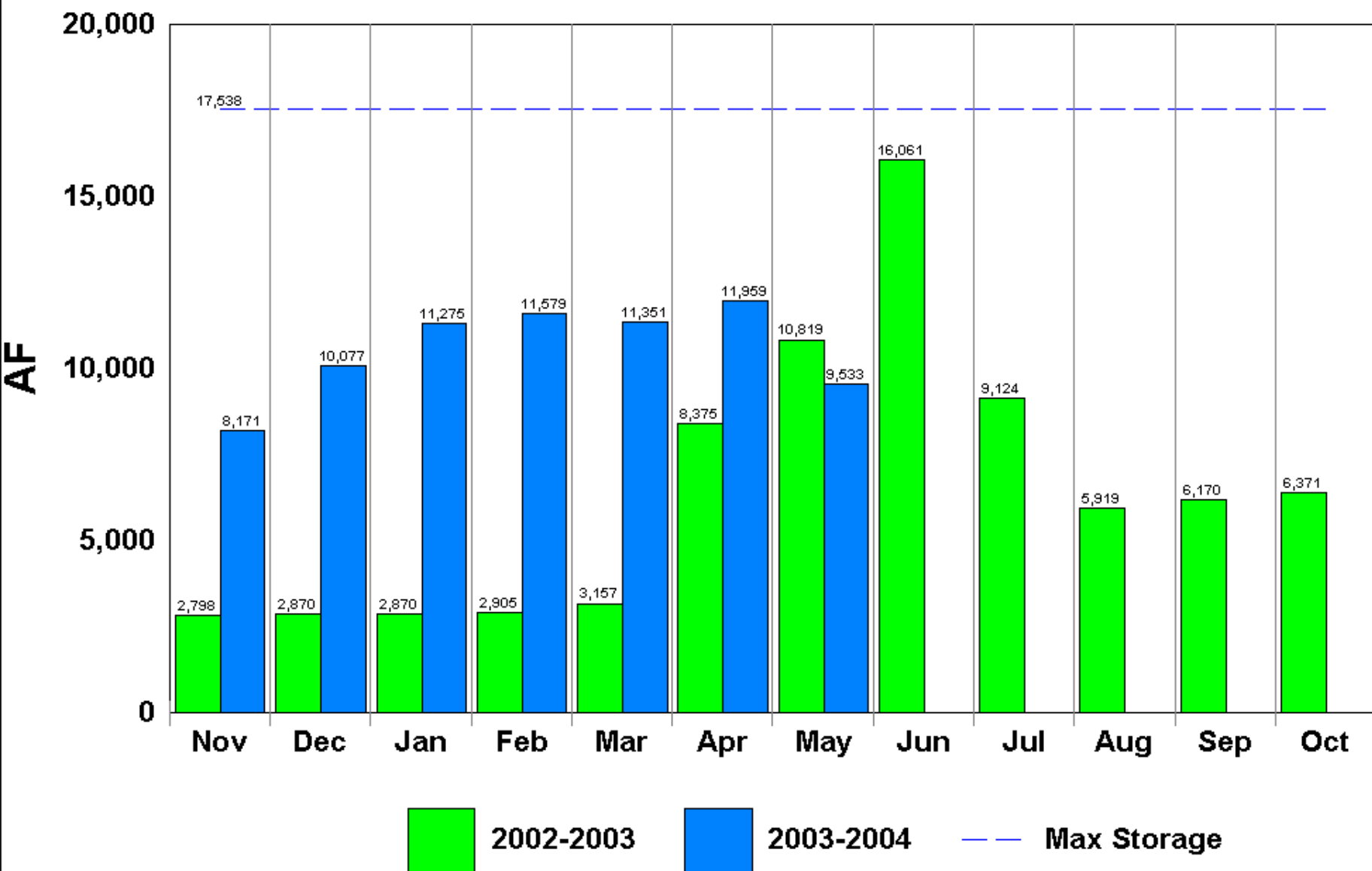
Boyd Lake

(Agricultural)



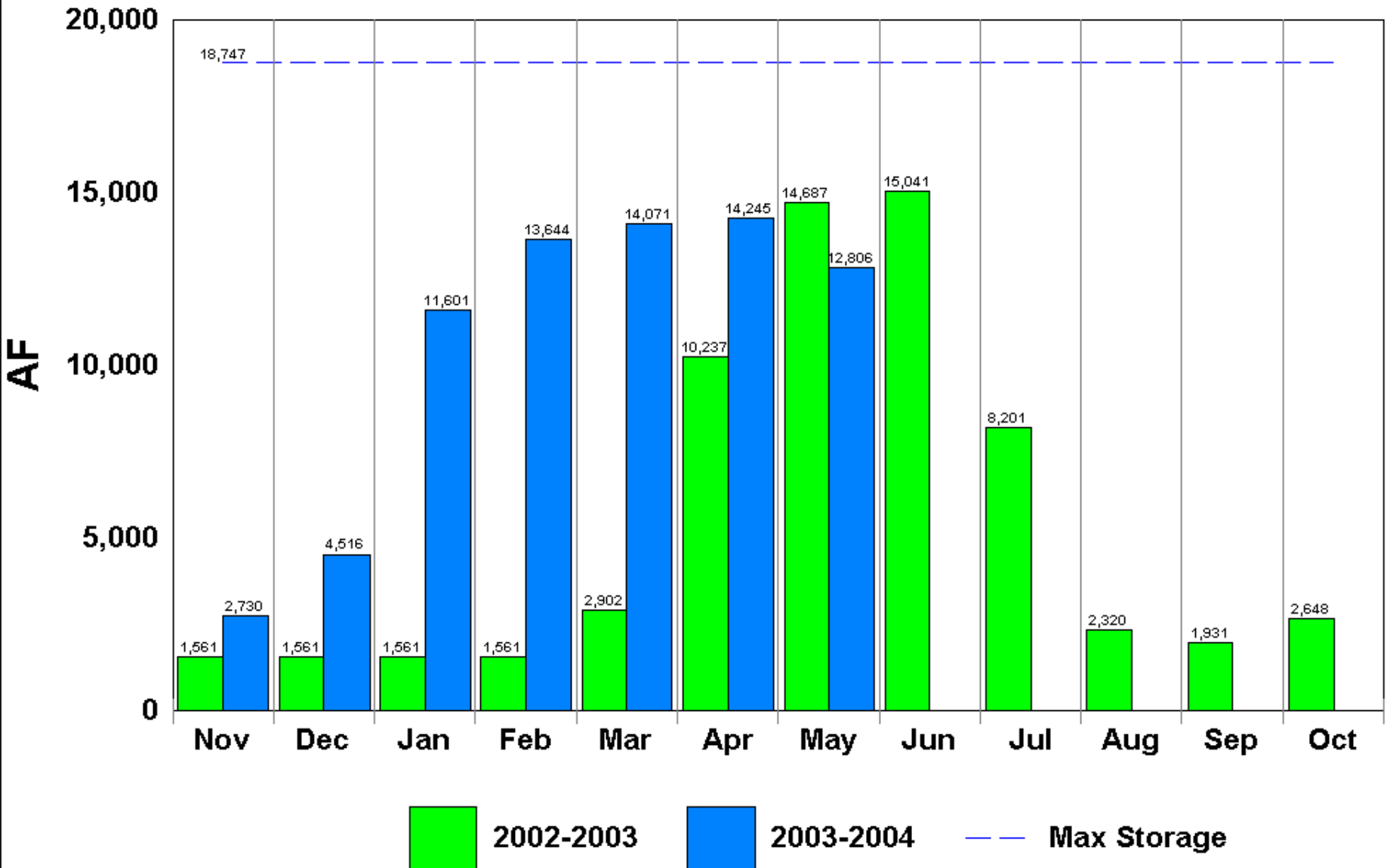
Windsor Reservoir

(Agricultural)



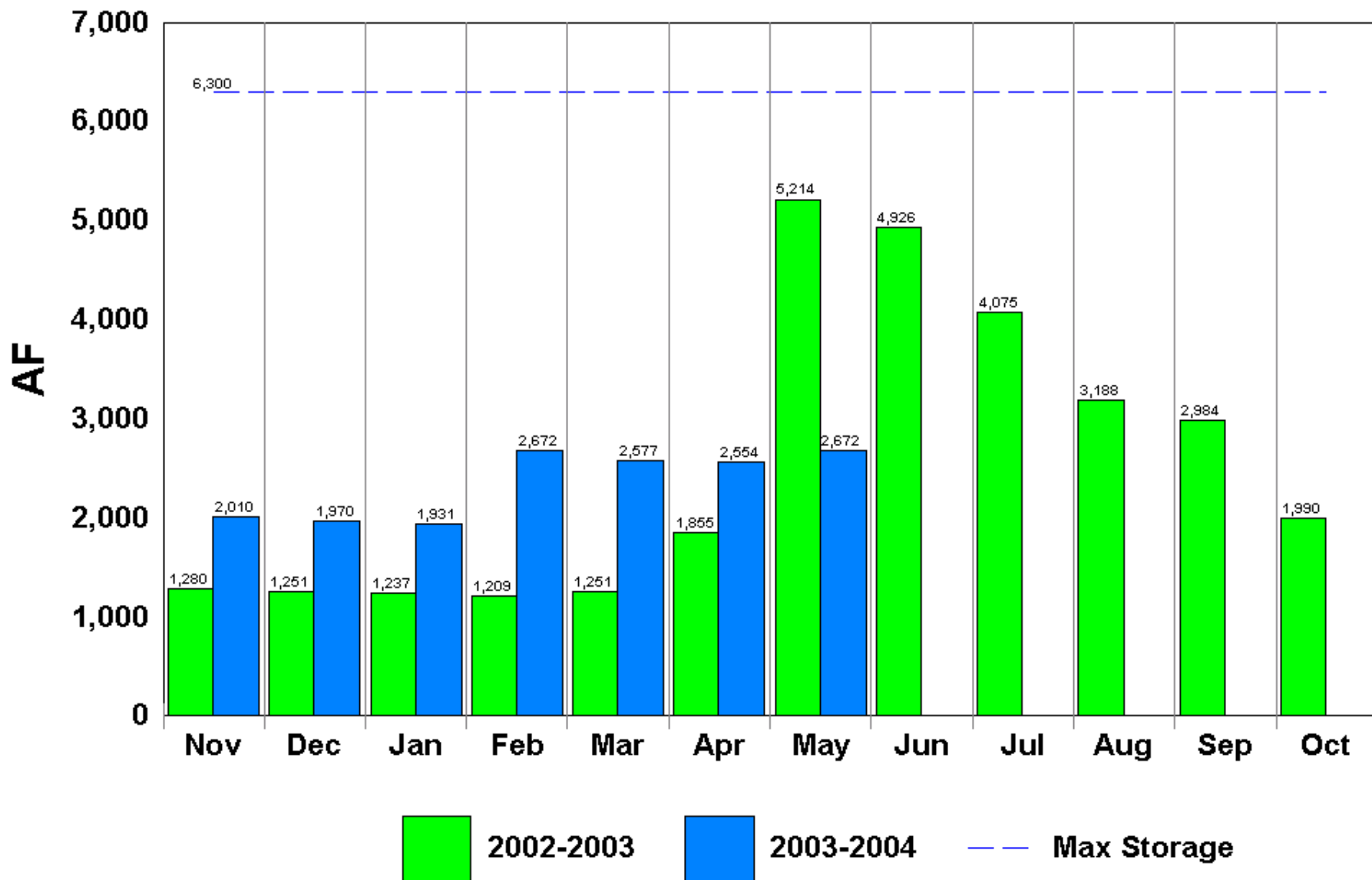
Horse Creek Reservoir

(Agricultural)



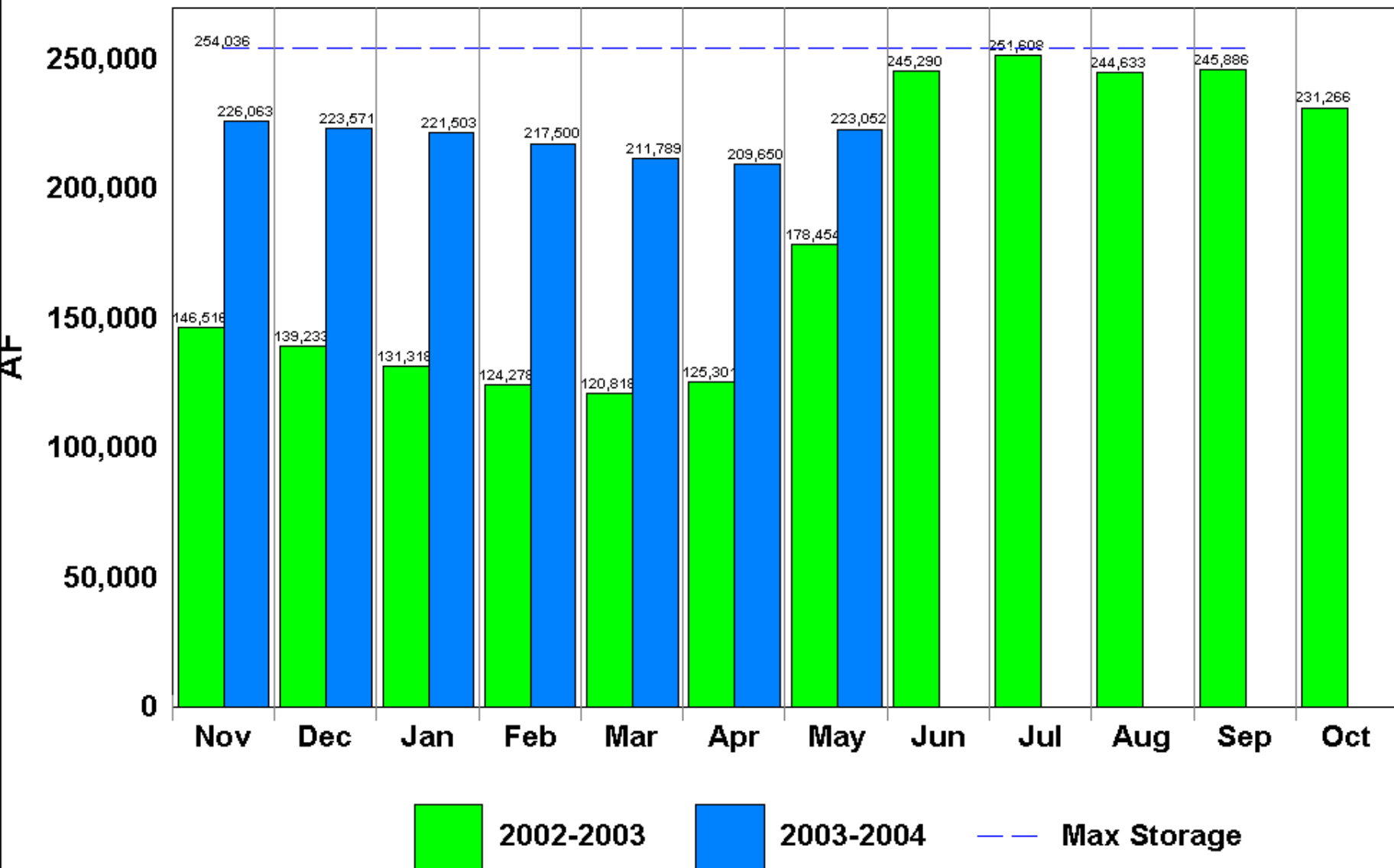
Prospect Reservoir

(Agricultural)



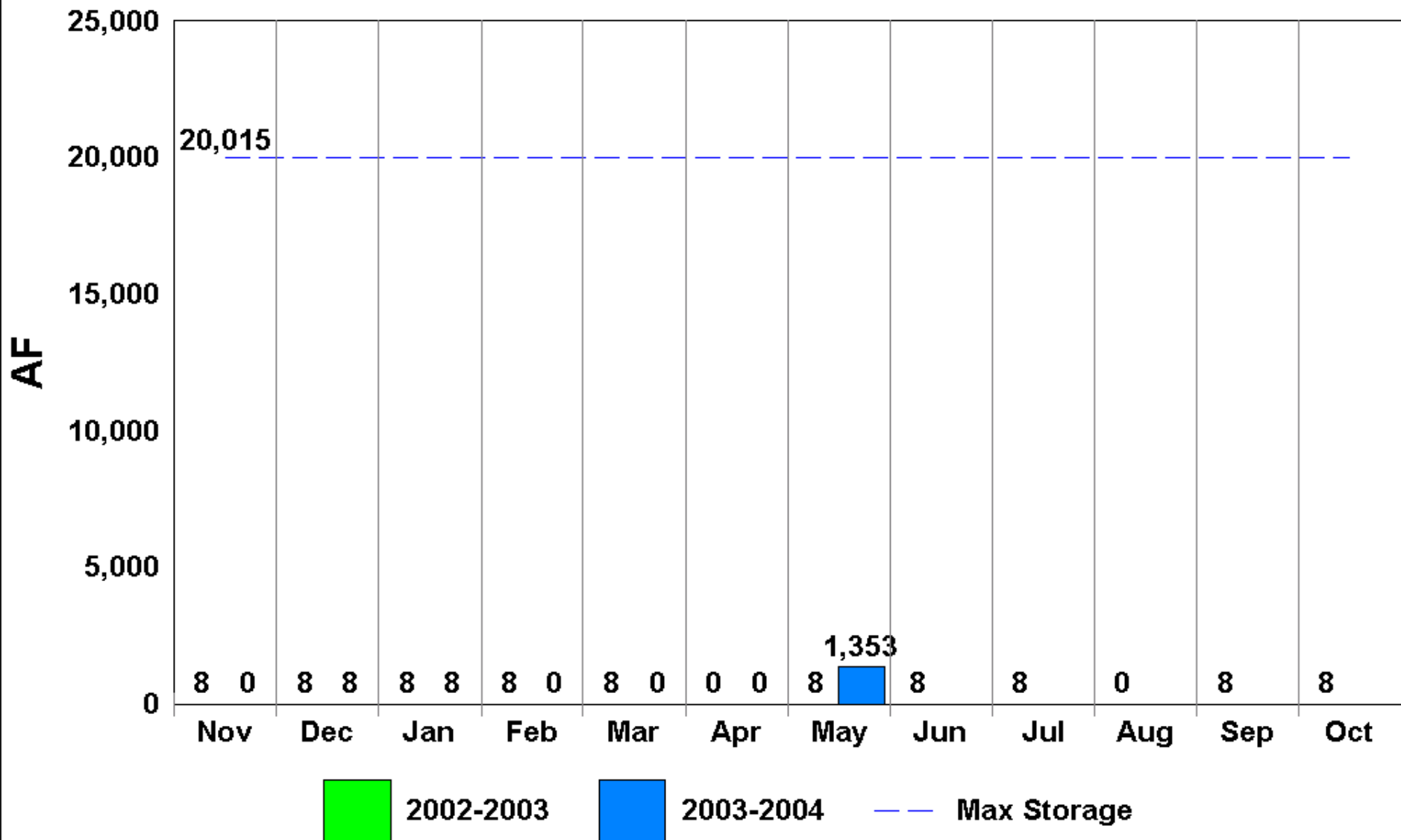
Dillon Reservoir

(Municipal)



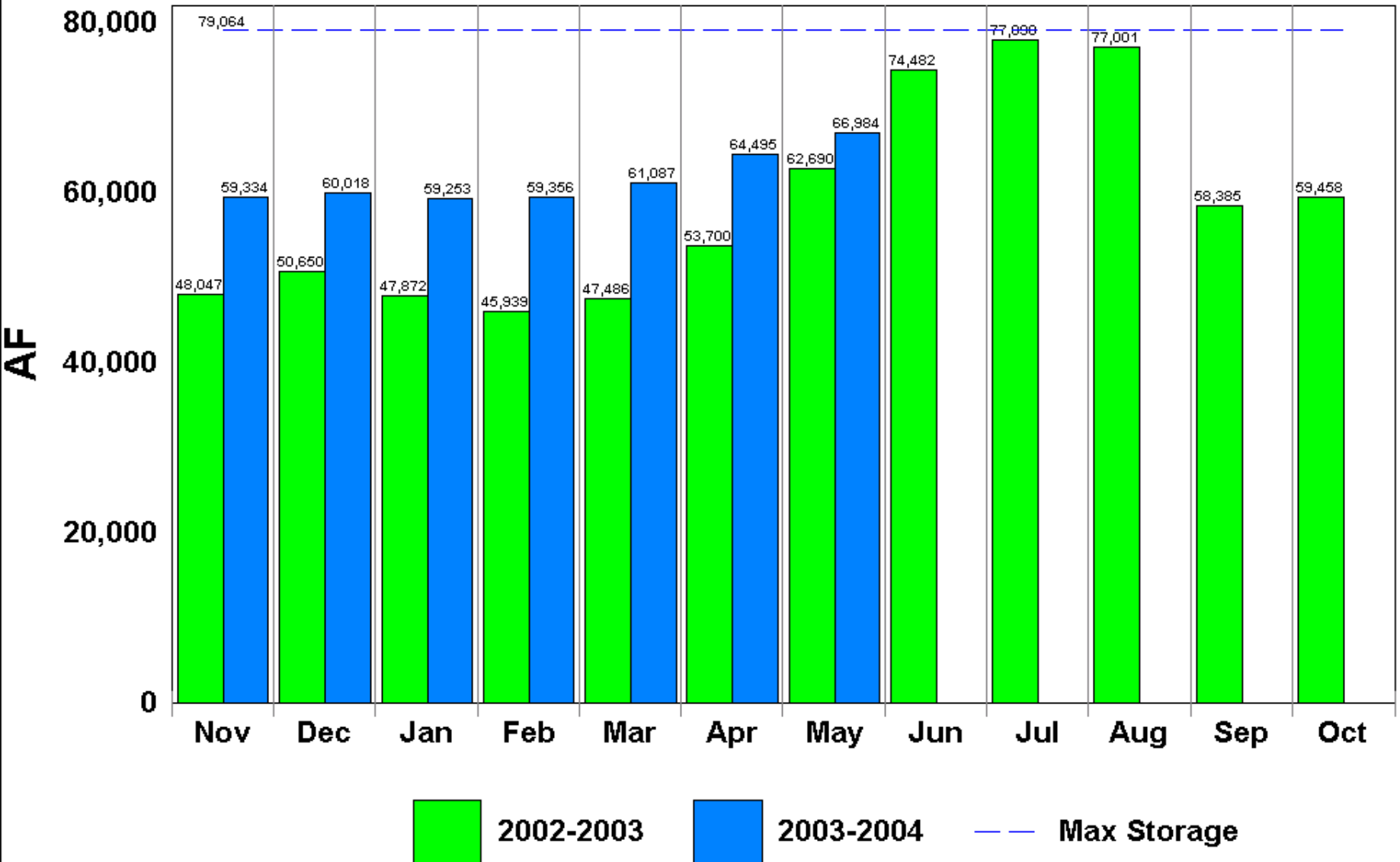
Antero Reservoir

(Municipal)



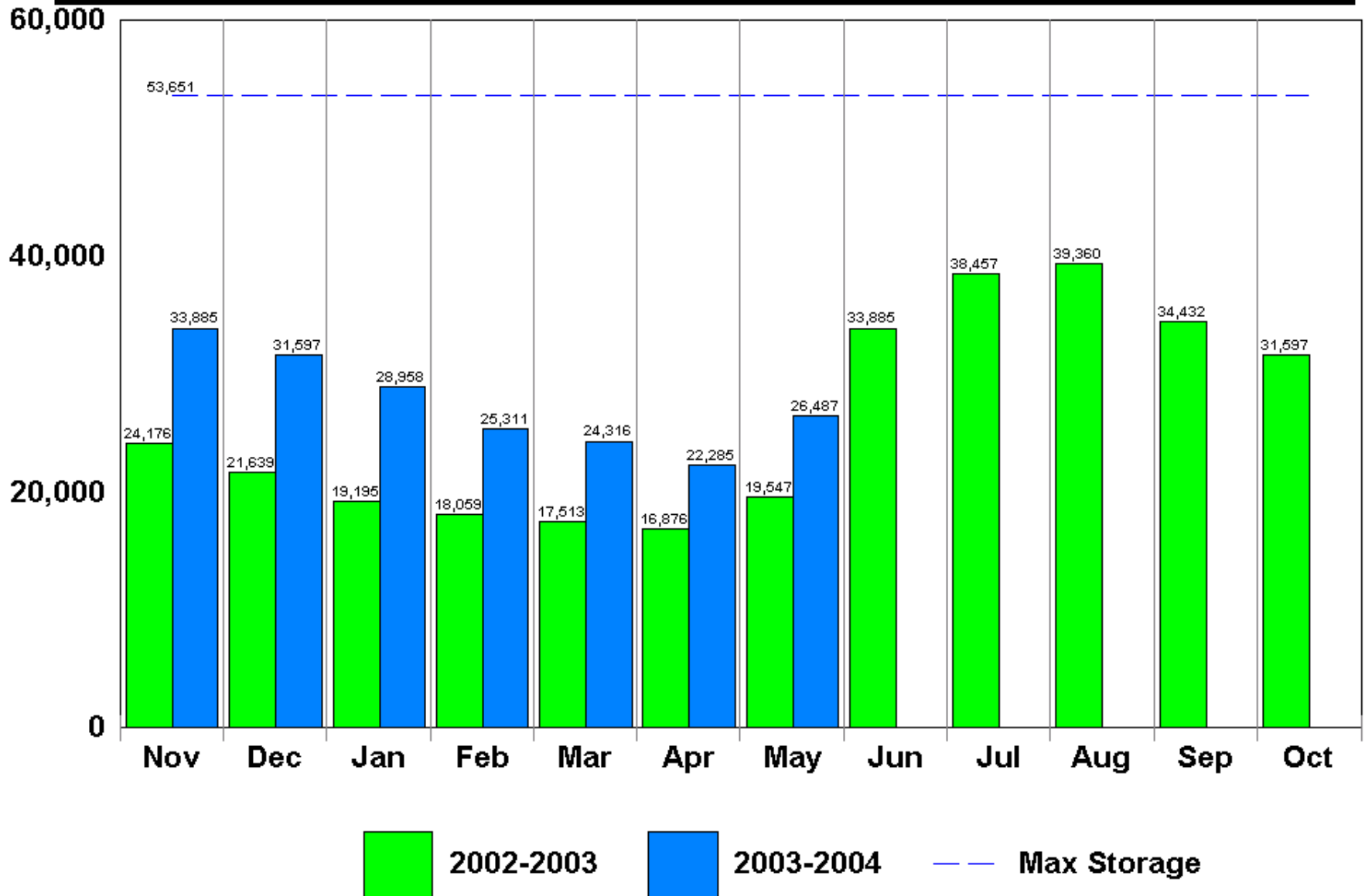
Cheesman Reservoir

(Municipal)



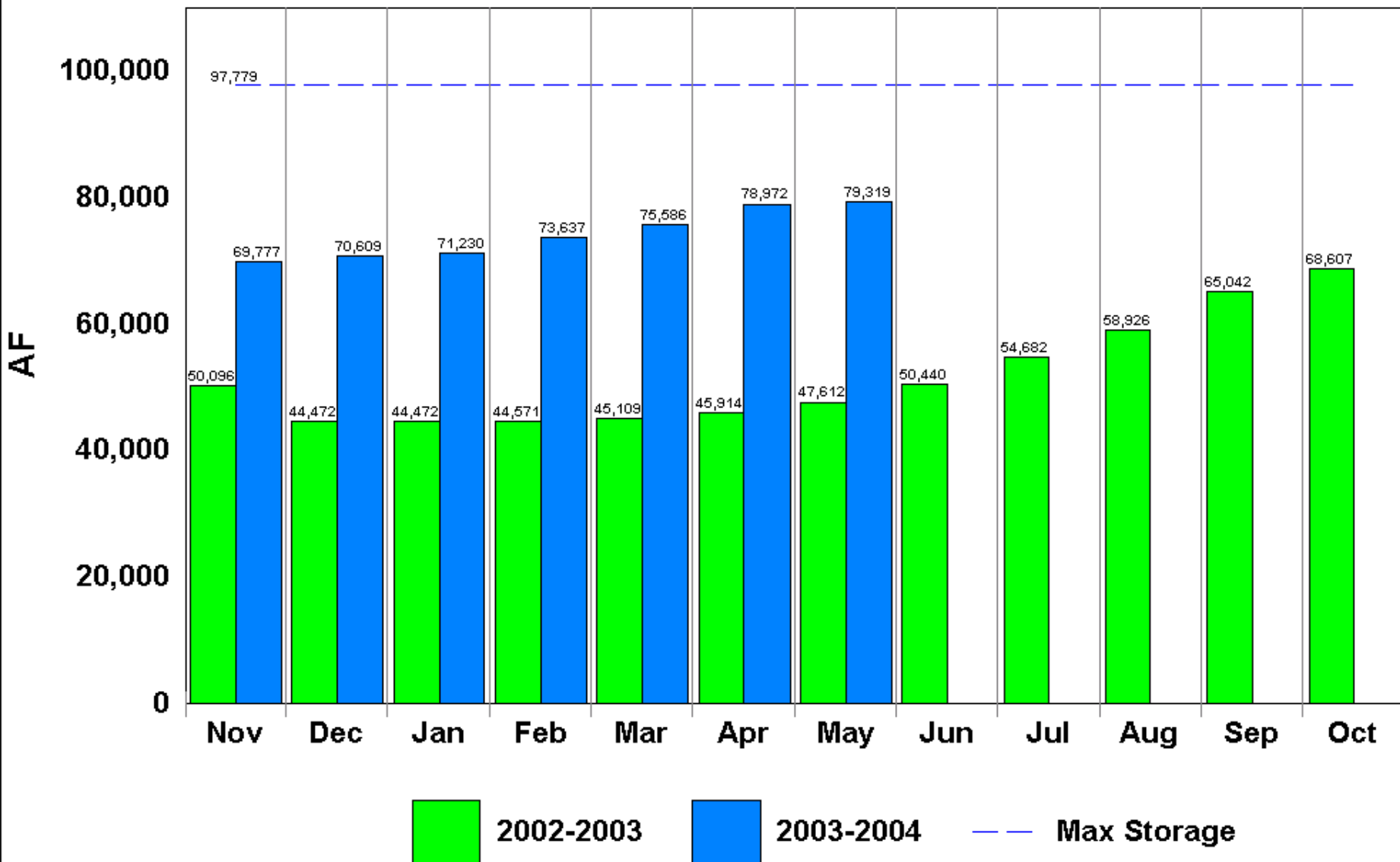
Spinney Mountain Reservoir

(Municipal)

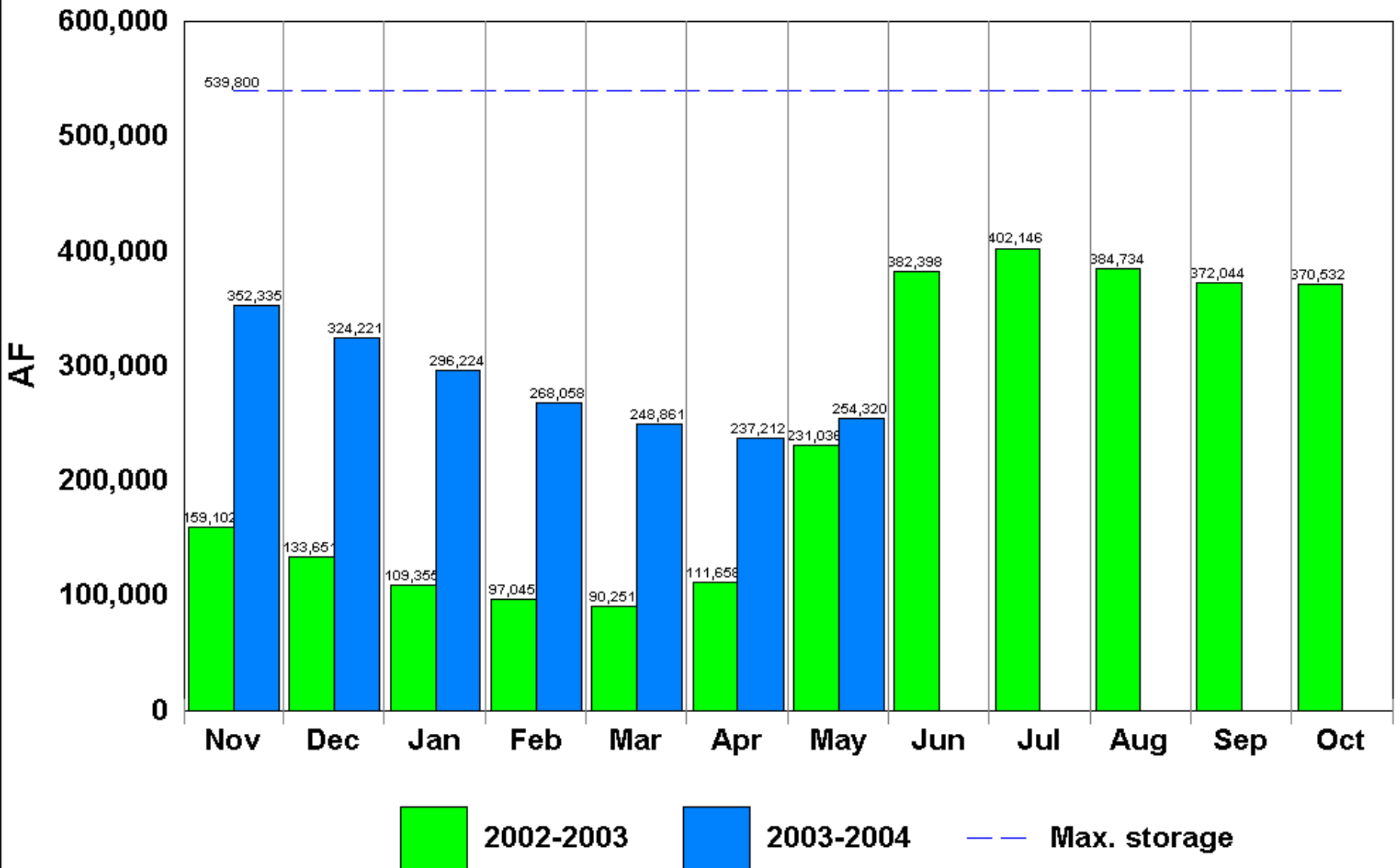


Eleven Mile Reservoir

(Municipal)



Lake Granby



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

Portion of Andersen Brewer infiltration beds, Tarryall Creek, in South Park.

Photo Credit Kim Eytel

