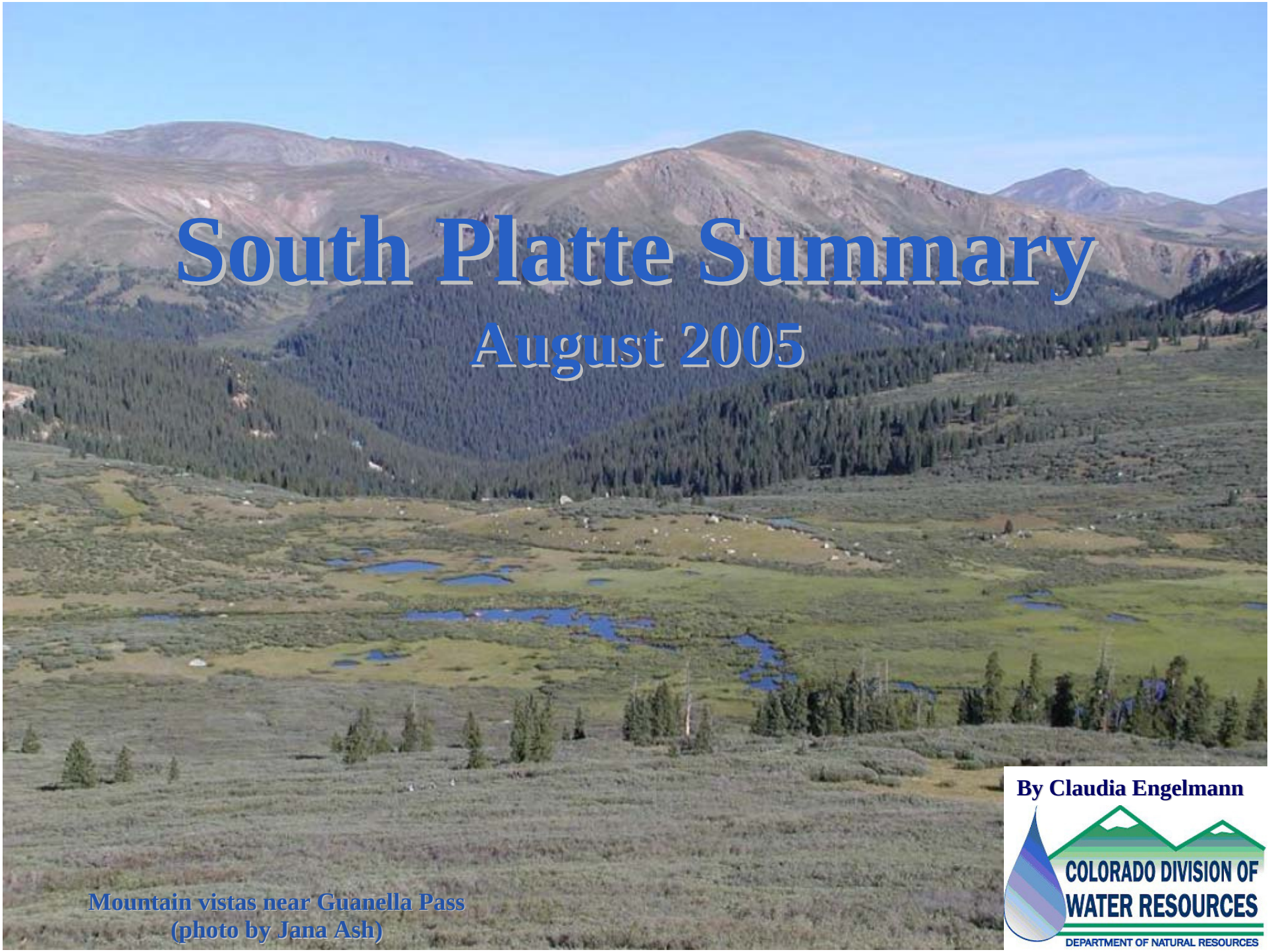
South Platte Summary

August 2005



Mountain vistas near Guanella Pass
(photo by Jana Ash)

By Claudia Engelmann

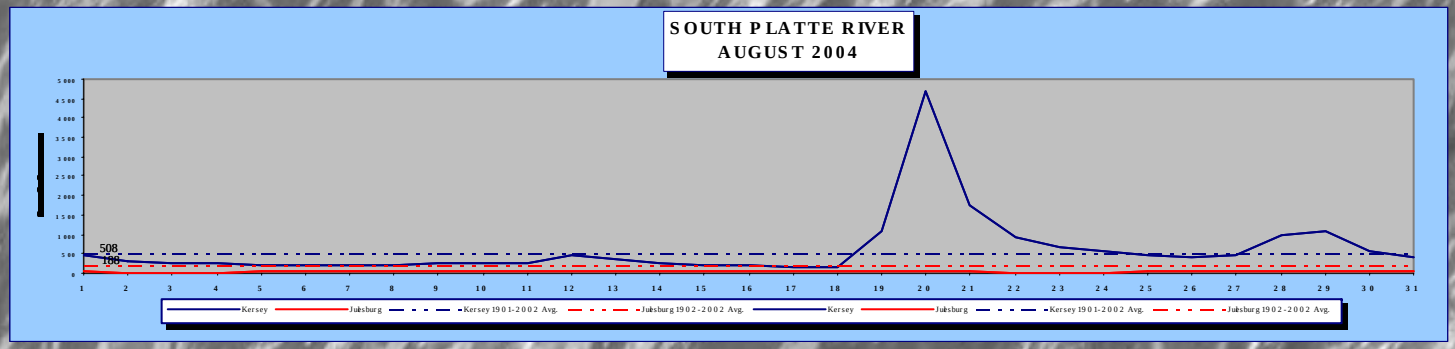
COLORADO DIVISION OF WATER RESOURCES
DEPARTMENT OF NATURAL RESOURCES

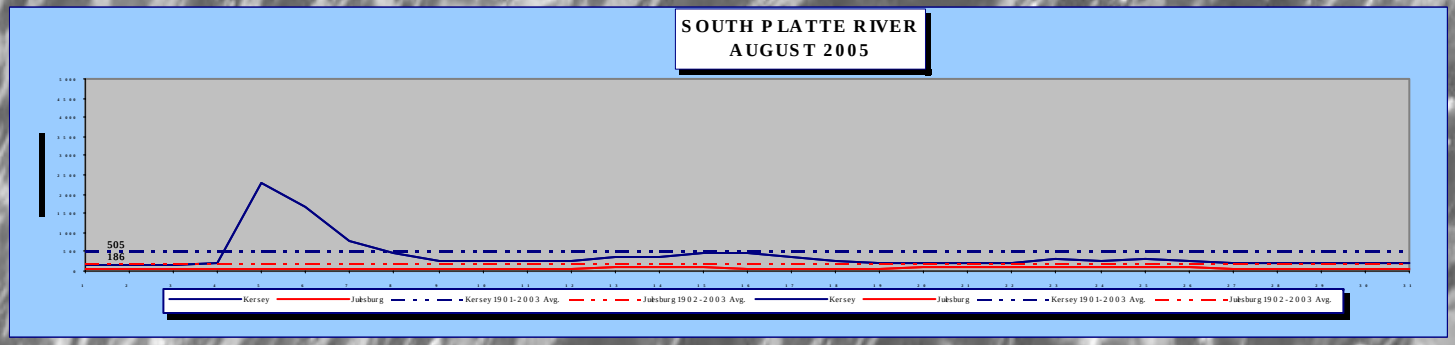
COLORADO DIVISION OF WATER RESOURCES, DIVISION 1
MONTH OF AUGUST 2005

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	16,787	8,923	64	-7,864	-47%	39%	30%	0
N STERLING	73,730	47,120	28,230	64	-18,890	-40%	38%	15%	0
PREWITT	28,500	20,170	14,350	64	-5,820	-29%	50%	17%	0
JACKSON	27,257	17,587	14,293	1	-3,294	-19%	52%	33%	0
EMPIRE	37,700	14,952	6,155	1	-8,797	-59%	16%	0%	0
RIVERSIDE	63,113	43,734	25,276	1	-18,458	-42%	40%	20%	0
BARR LAKE	31,652	18,961	10,033	2	-8,928	-47%	32%	30%	0
CHEESMAN	79,064	78,480	77,656	80	-824	-1%	98%	94%	0
ELEVEN MILE	97,779	100,174	100,174	23	0	0%	100%	88%	2,395
SPINNEY	53,651	39,875	39,263	23	-612	-2%	73%	68%	0
ANTERO	20,015	5,540	6,201	23	661	12%	31%	0%	0

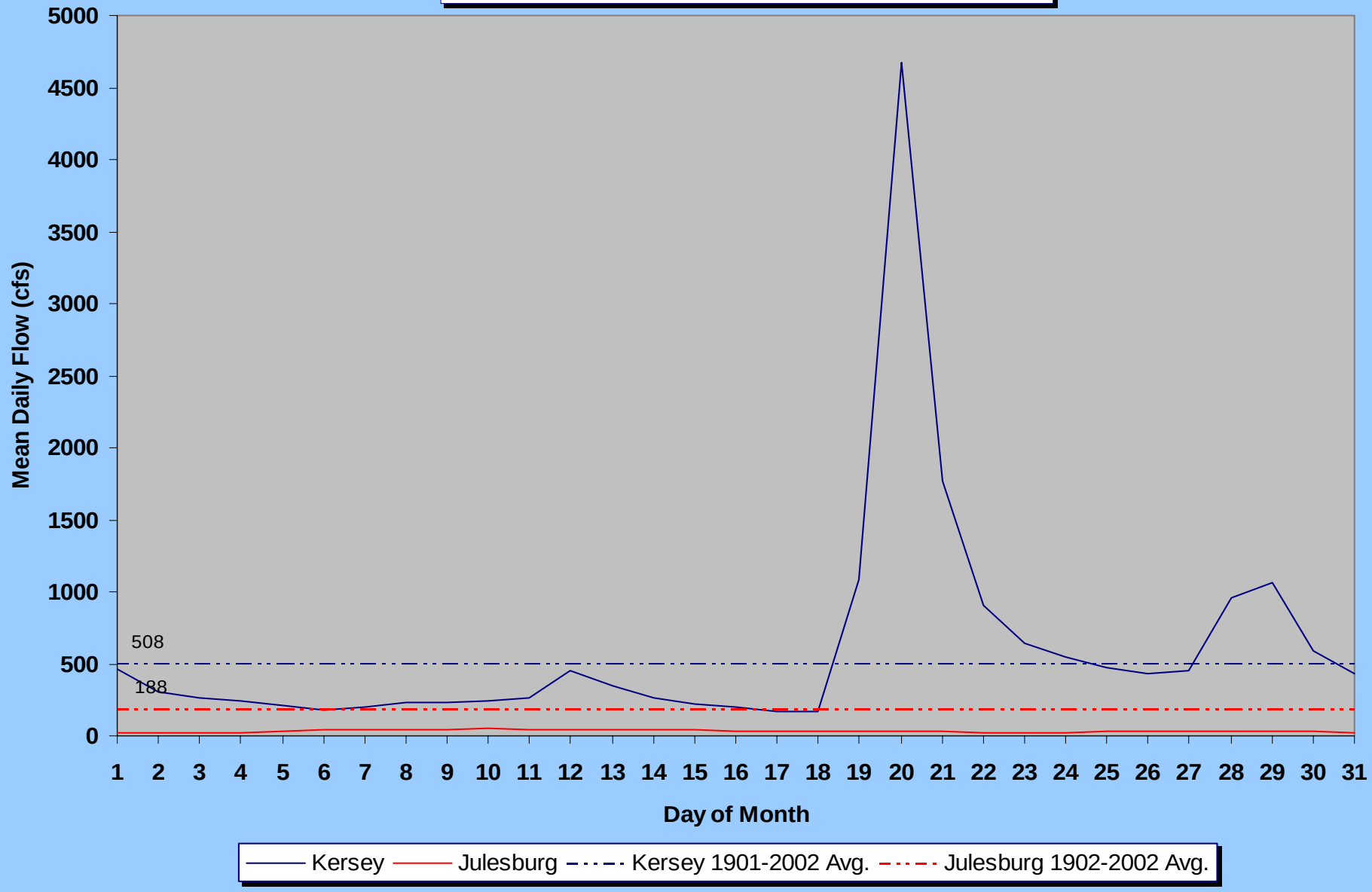
RIVER GAGES	MEAN DAILY FLOW (CFS)
KERSEY	393
JULESBURG	74
THIS MONTH LAST YEAR	
KERSEY	603
JULESBURG	33
MEAN FOR PERIOD OF RECORD*	
KERSEY	505
JULESBURG	186

* 1901-2003
1902-2003

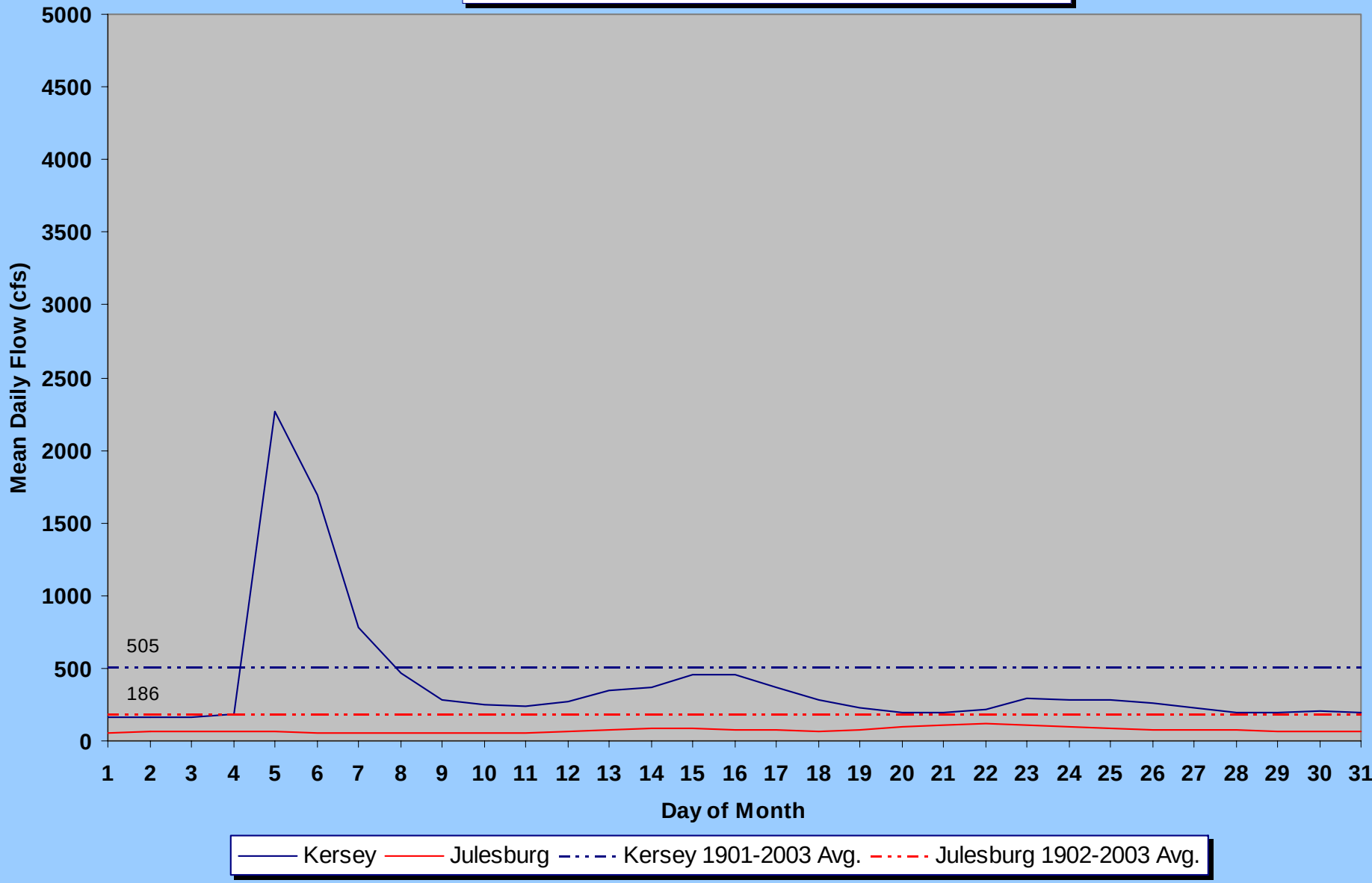




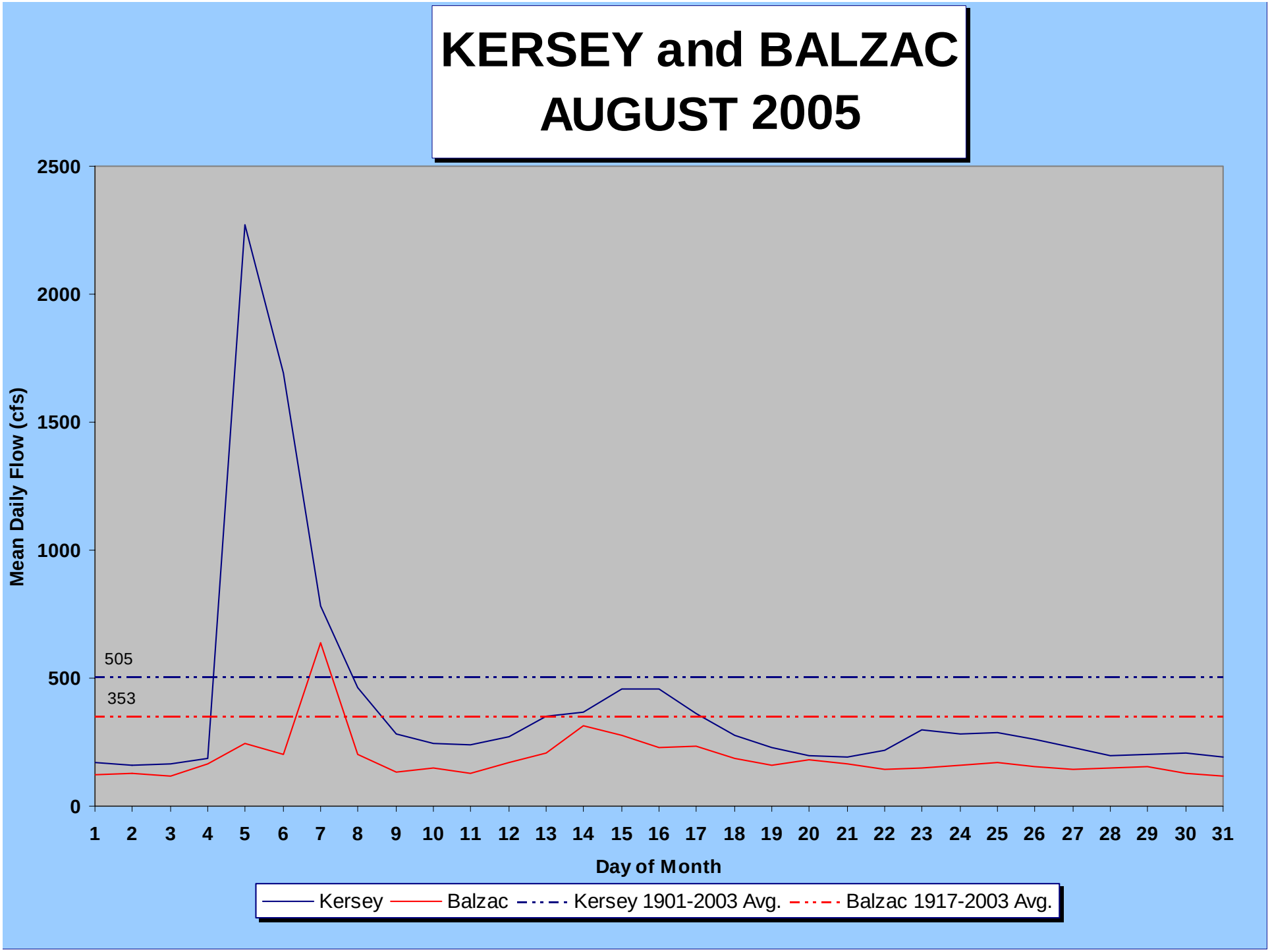
SOUTH PLATTE RIVER
AUGUST 2004



SOUTH PLATTE RIVER
AUGUST 2005



KERSEY and BALZAC
AUGUST 2005



South Platte River Monthly Stream Flow (cfs) Statistics

South Platte River at Kersey

	Historic* Mean Flow	Historic* Max Flow	Year	Historic* Min Flow	Year	IY 2005 Mean Monthly Flow	Estimated Mean? (Y/N)
Nov	736	3650	1985	70	1935	839	N
Dec	684	1890	1962	91	1935	738	N
Jan	658	2160	1974	158	1935	524	N
Feb	674	3060	1914	152	1935	647	N
Mar	688	3470	1983	80	1935	589	N
Apr	853	18100	1942	28	1955	854	N
May	1780	26100	1973	29	1955	1210	N
Jun	2355	31000	1921	52	1954	2902	N
Jul	671	12600	1983	44	1955	216	N
Aug	505	9690	1951	65	1934	393	N
Sep	516	14200	1938	62	1940		
Oct	648	6180	1985	66	1955		

*Period of record 1901-2003

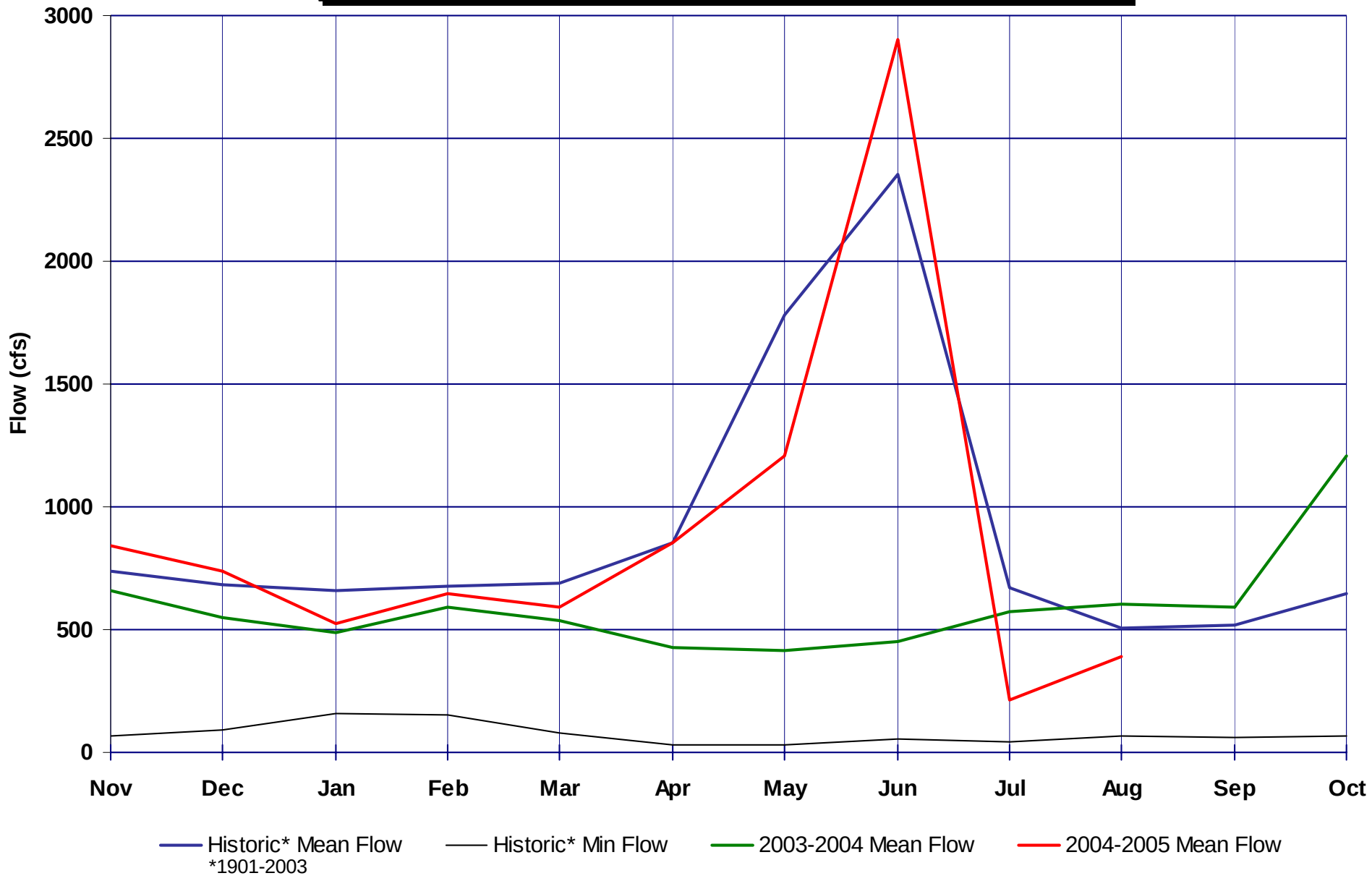
South Platte River at Julesburg

	Historic* Mean Flow	Historic* Max Flow	Year	Historic* Min Flow	Year	IY 2005 Mean Monthly Flow	Estimated Mean? (Y/N)
Nov	350	2900	1985	4.2	1904	28	N
Dec	411	1820	1985	13	2003	58	N
Jan	530	2510	1970	21	2003	113	Y
Feb	609	5610	2004	0	2004	39	N
Mar	550	12900	1910	0.83	2004	24	N
Apr	545	14400	1942	4	1904	125	N
May	1054	18100	1973	12	1911	101	N
Jun	1474	30800	1921	2	1910	1137	N
Jul	303	12600	1983	0	1903	91	N
Aug	186	8920	1968	0	1903	74	N
Sep	247	7130	1938	2	1902		
Oct	311	3130	1985	4.2	1904		

*Period of record 1902-2003

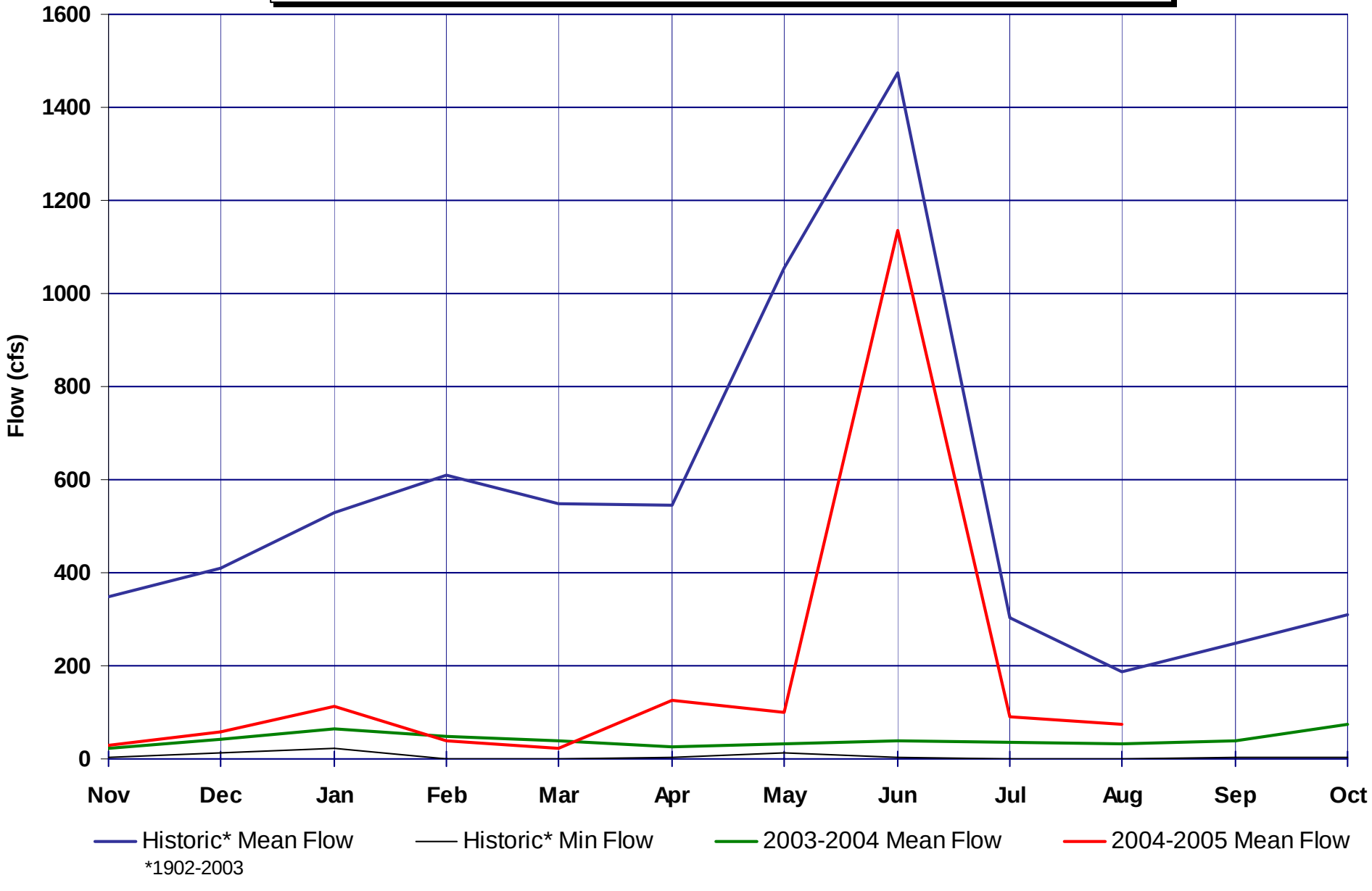
South Platte River at Kersey

Irrigation Water Year



South Platte River at Julesburg

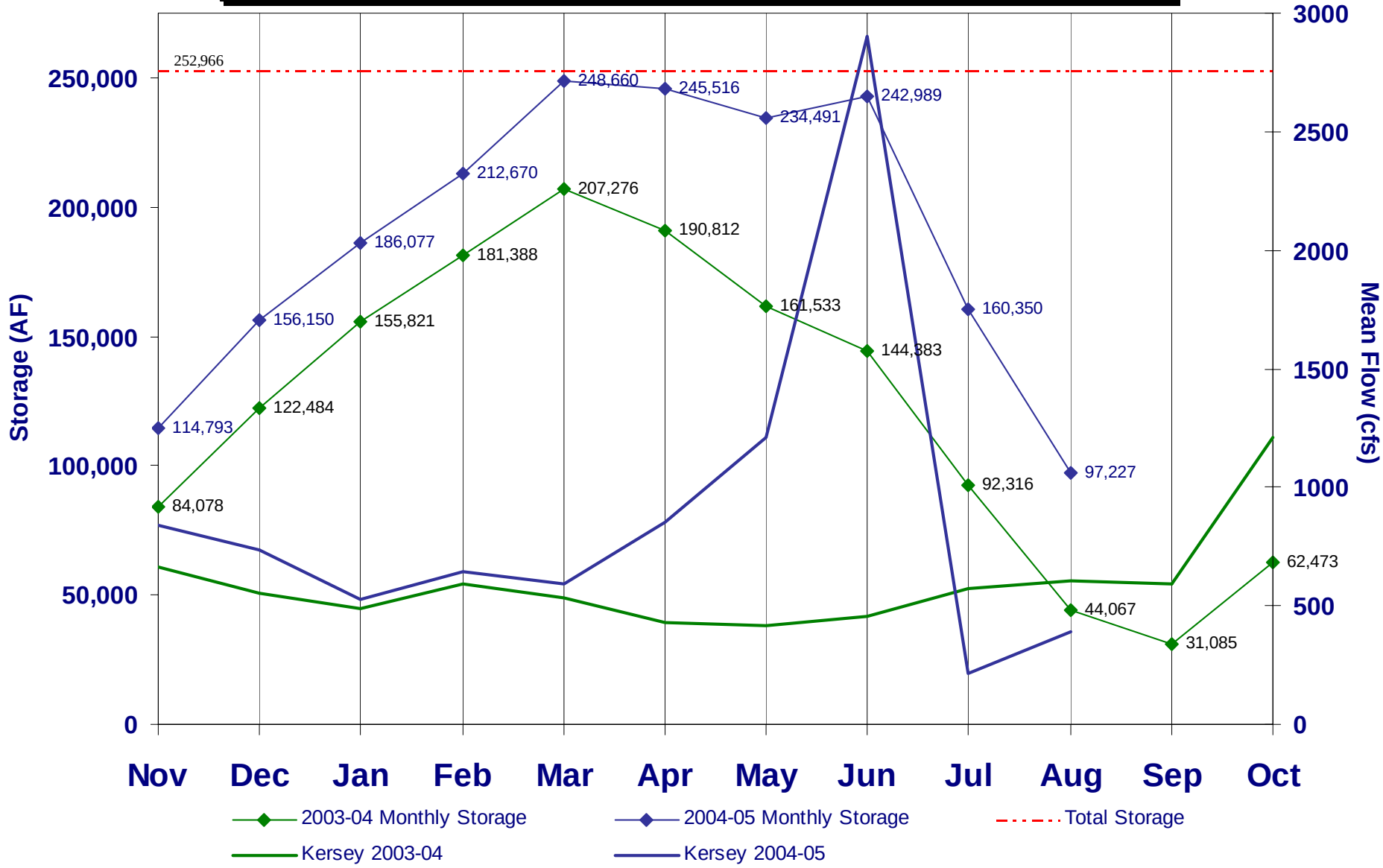
Irrigation Water Year




Next four slides show
Reservoir Storage
below and above Kersey
South Park

Reservoir Storage below Kersey

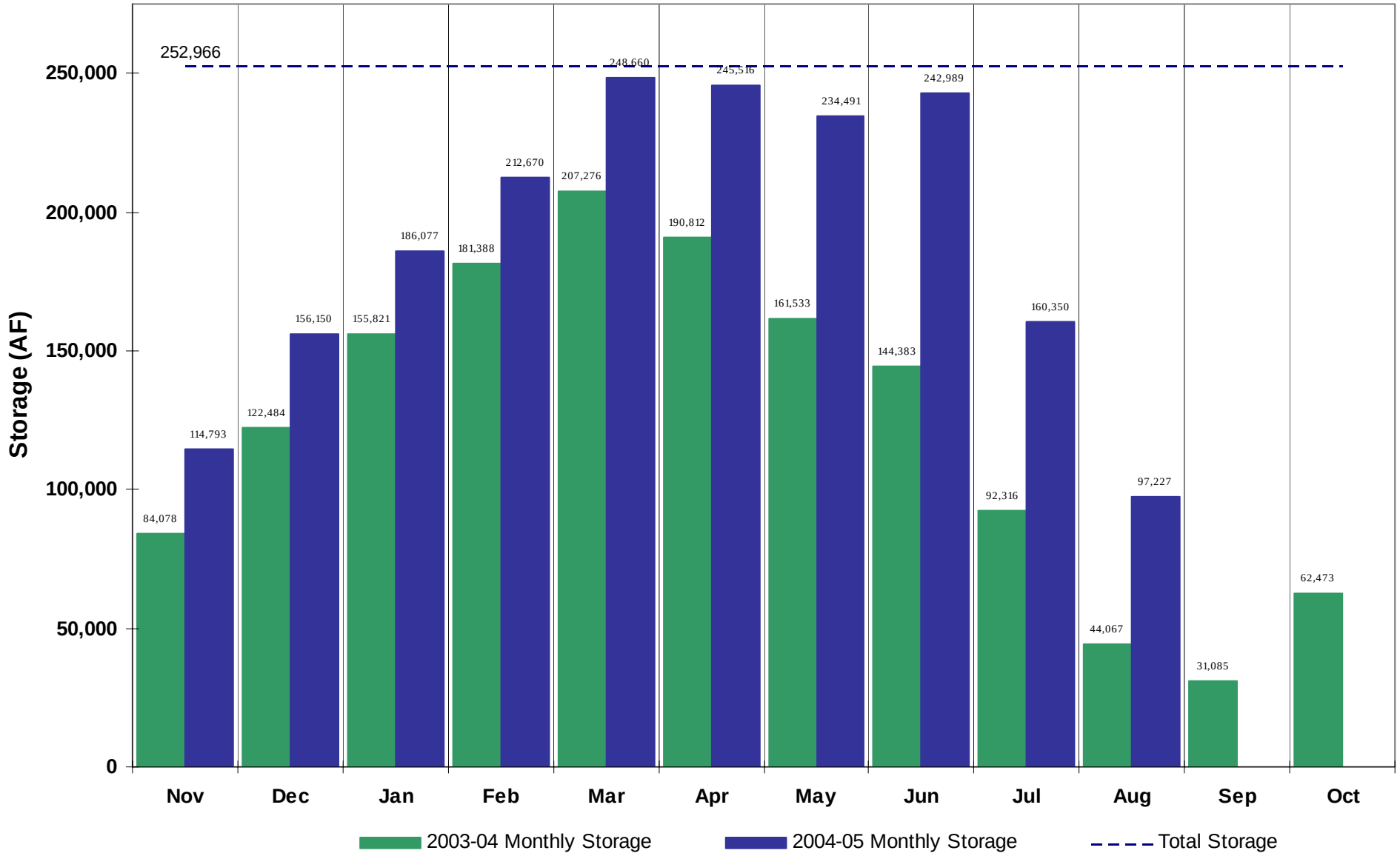
Selected Reservoirs*



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

South Platte Reservoirs

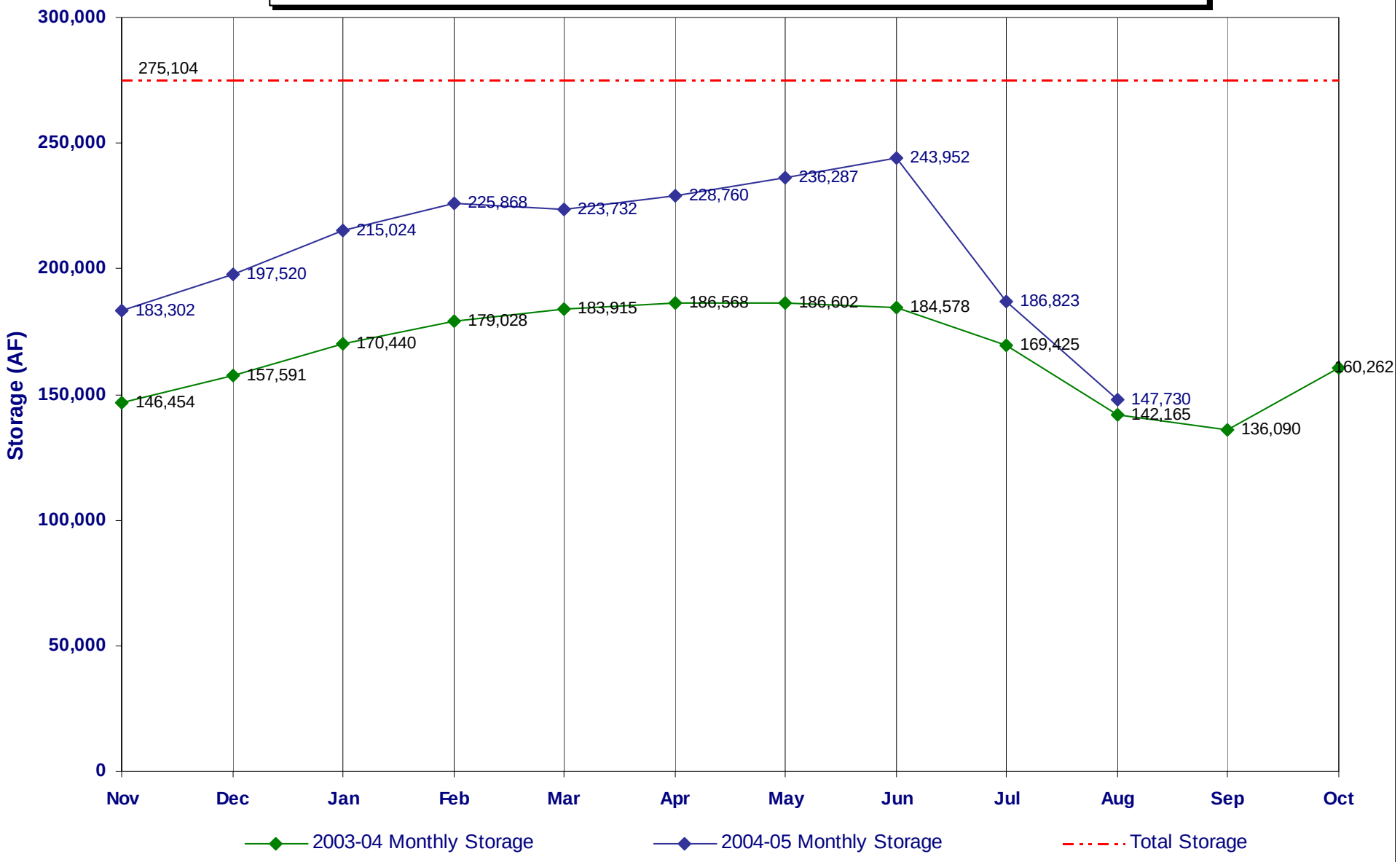
Storage below Kersey*



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

Reservoir Storage above Kersey

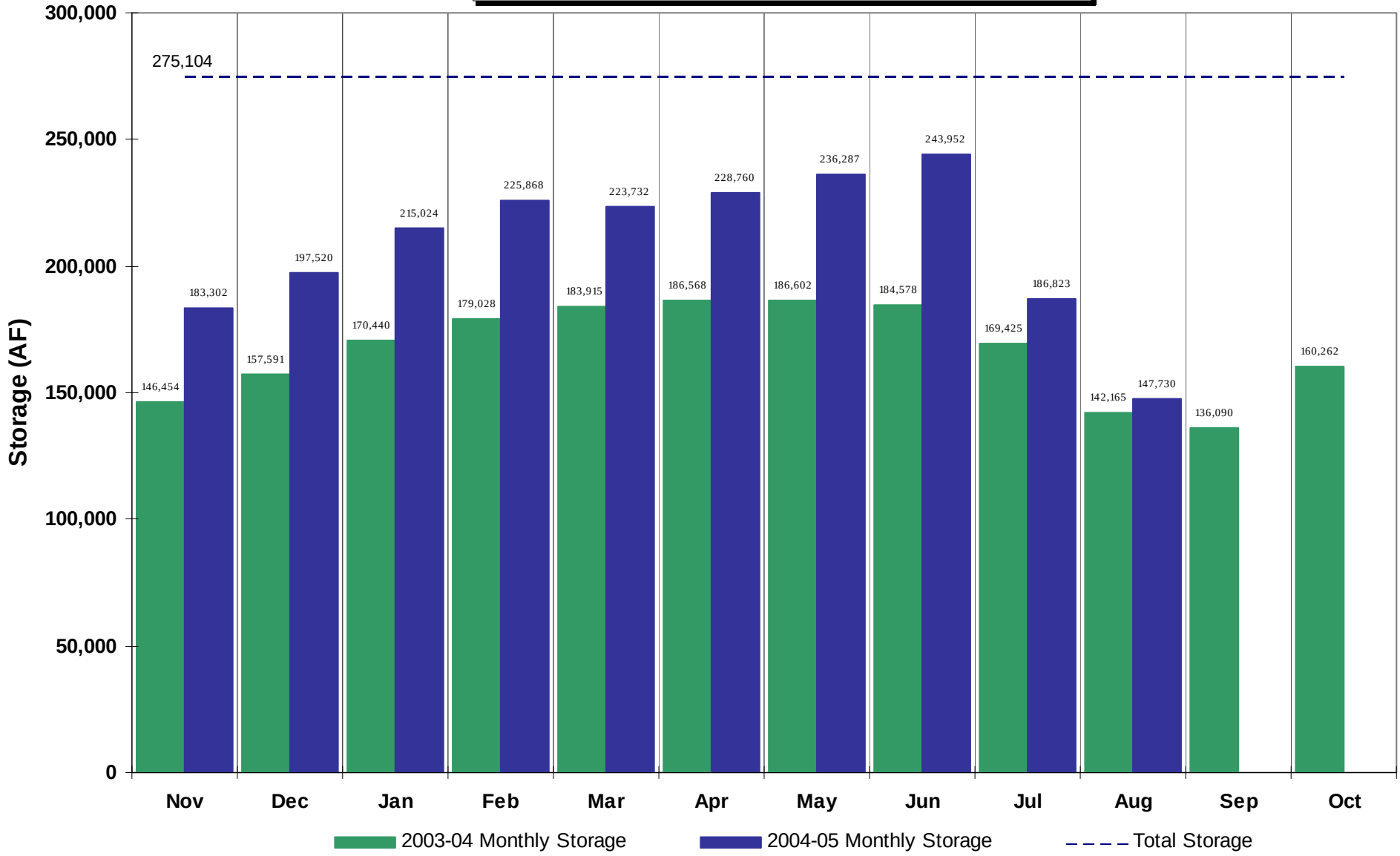
Selected Reservoirs*



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

South Platte Reservoirs

Storage above Kersey*

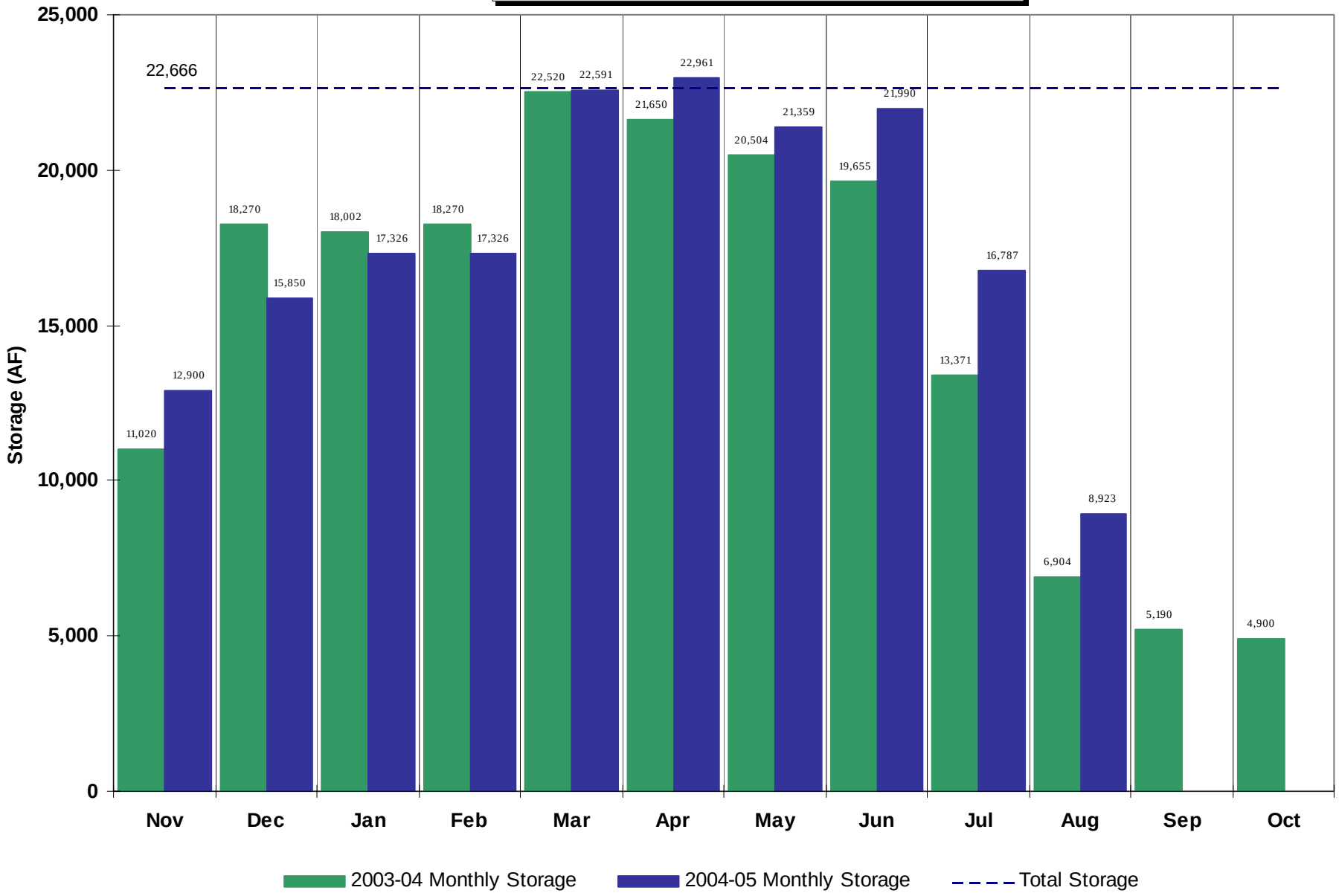


*Barr, Cobb, Fossil Crk, Halligan, Marshall, Milton, Union, Standley, Lower Latham, Boyd, Loveland, Windsor, Horse Crk, & Prospect


Individual
Reservoir Storage
Follows
Compaction Water
(photo by Mark Trivisonno)

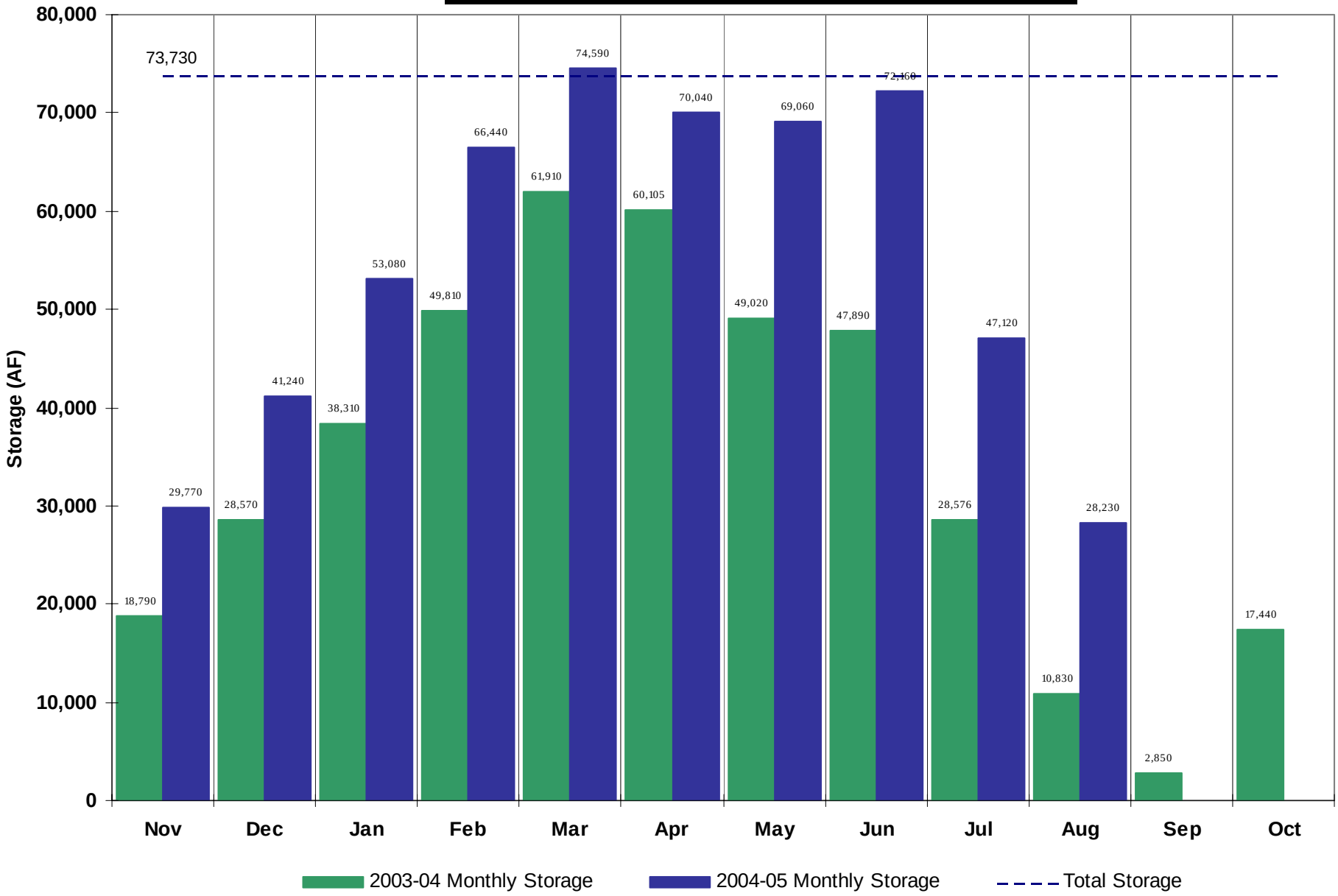
Julesburg Reservoir

(Agricultural)



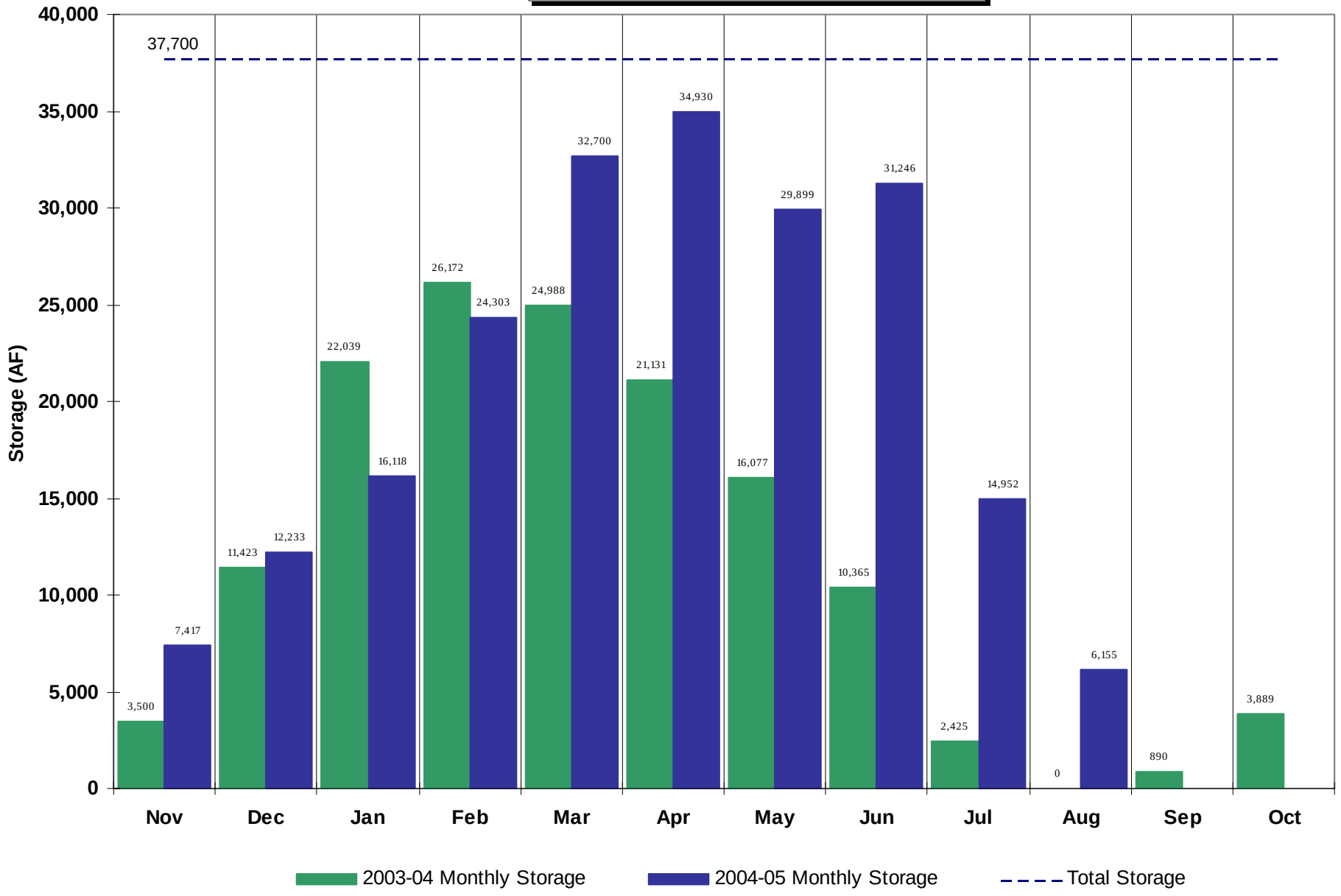
North Sterling Reservoir

(Agricultural)



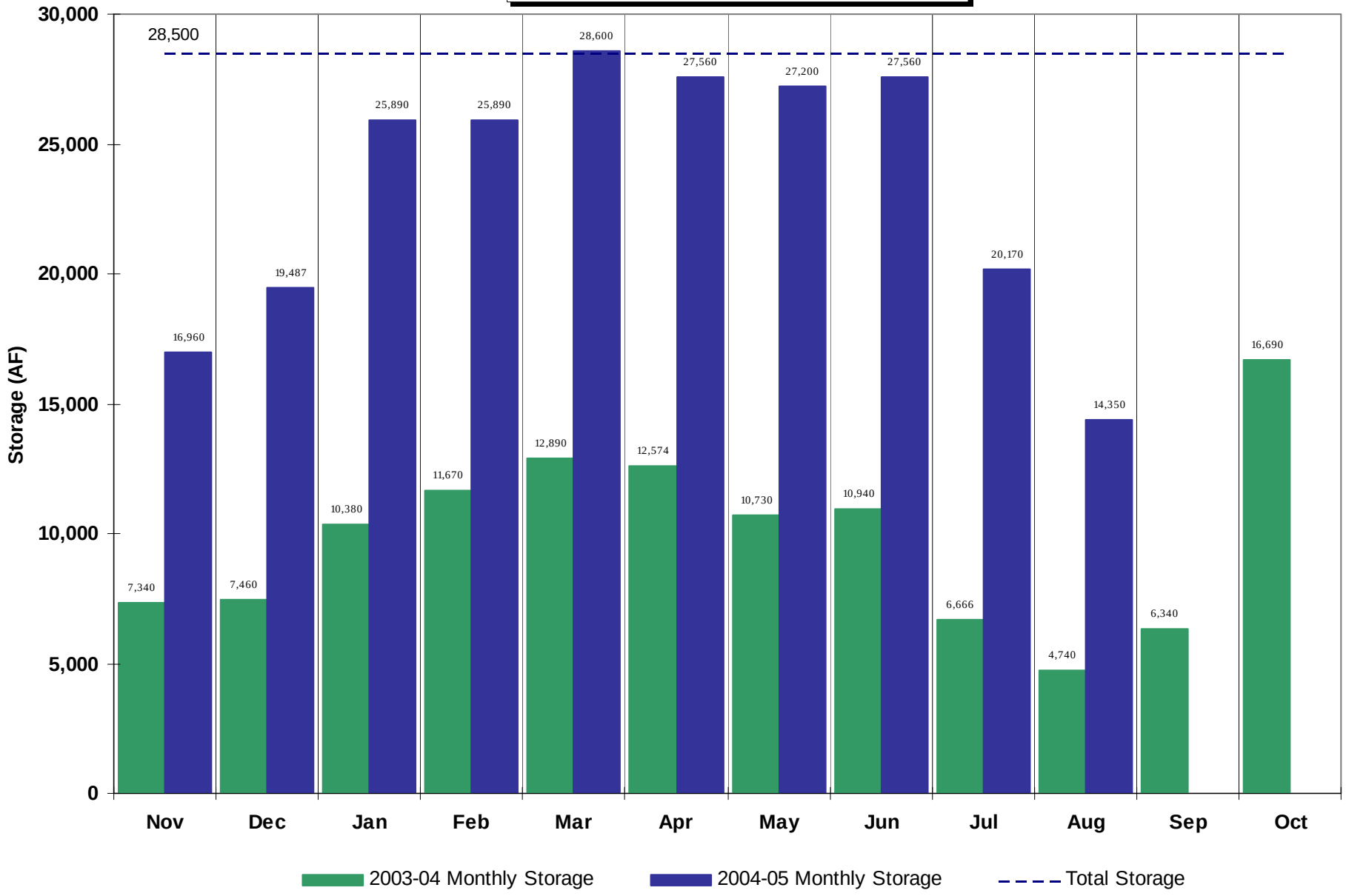
Empire Reservoir

(Agricultural)



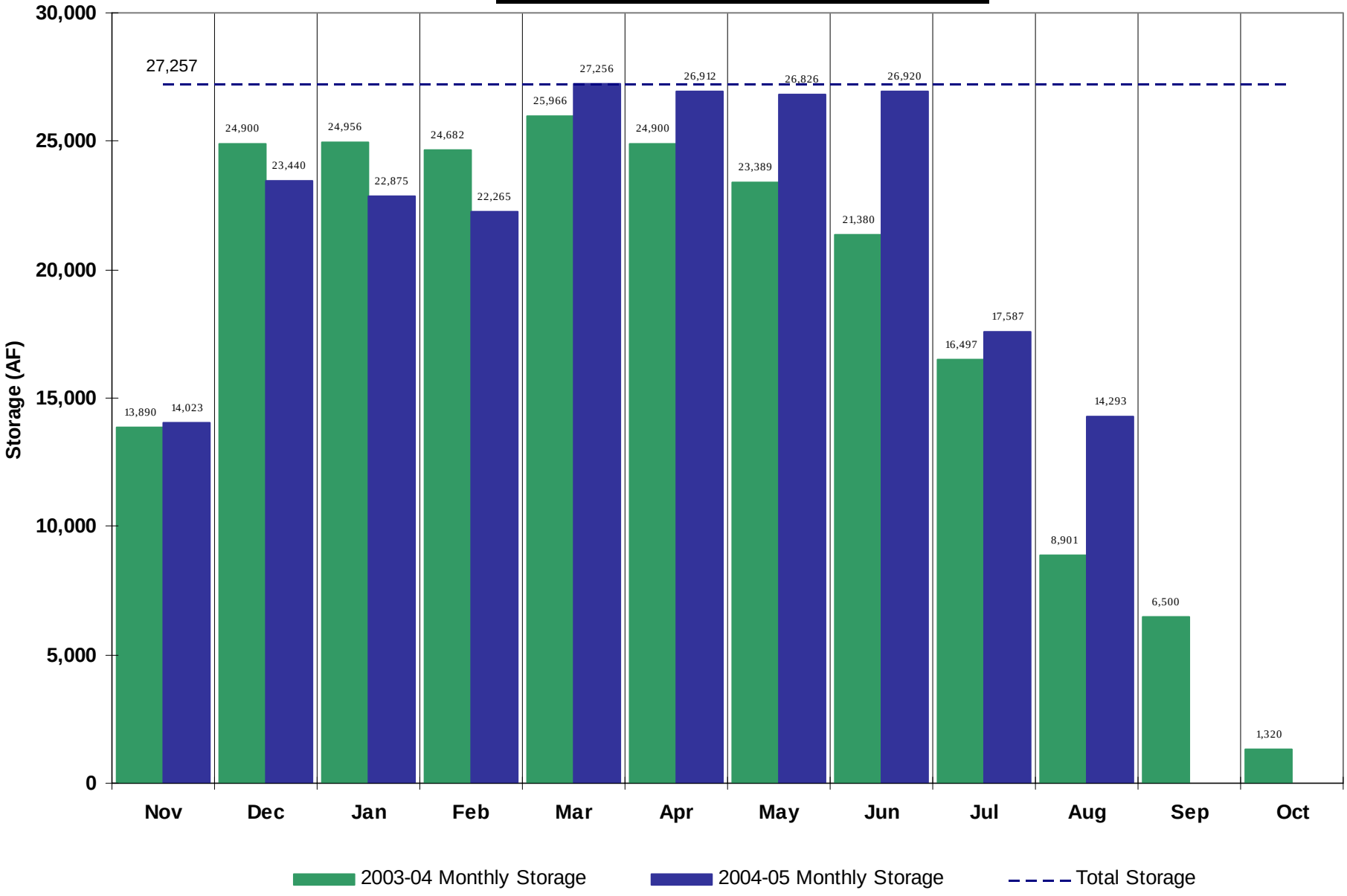
Prewitt Reservoir

(Agricultural)



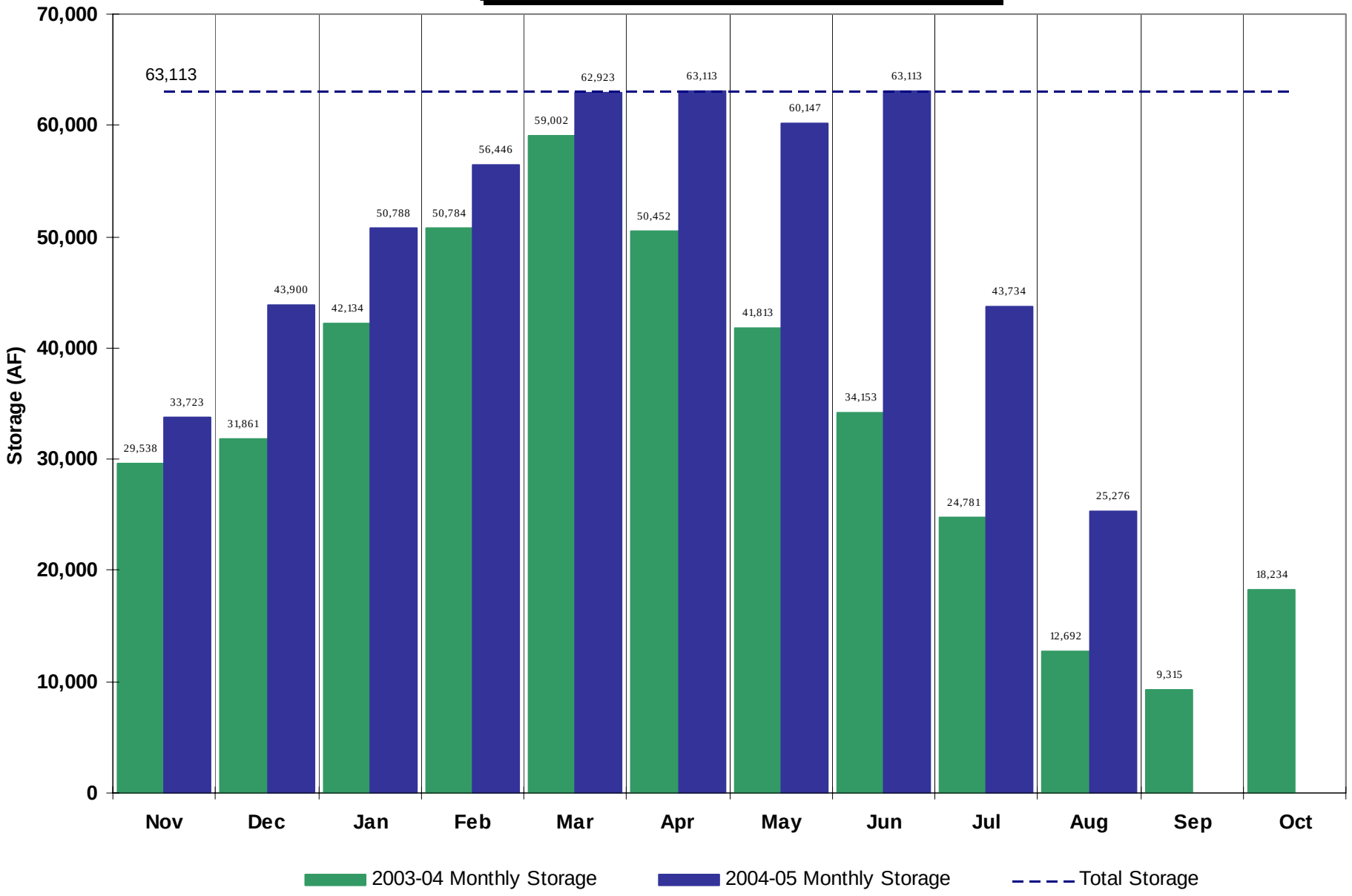
Jackson Reservoir

(Agricultural)

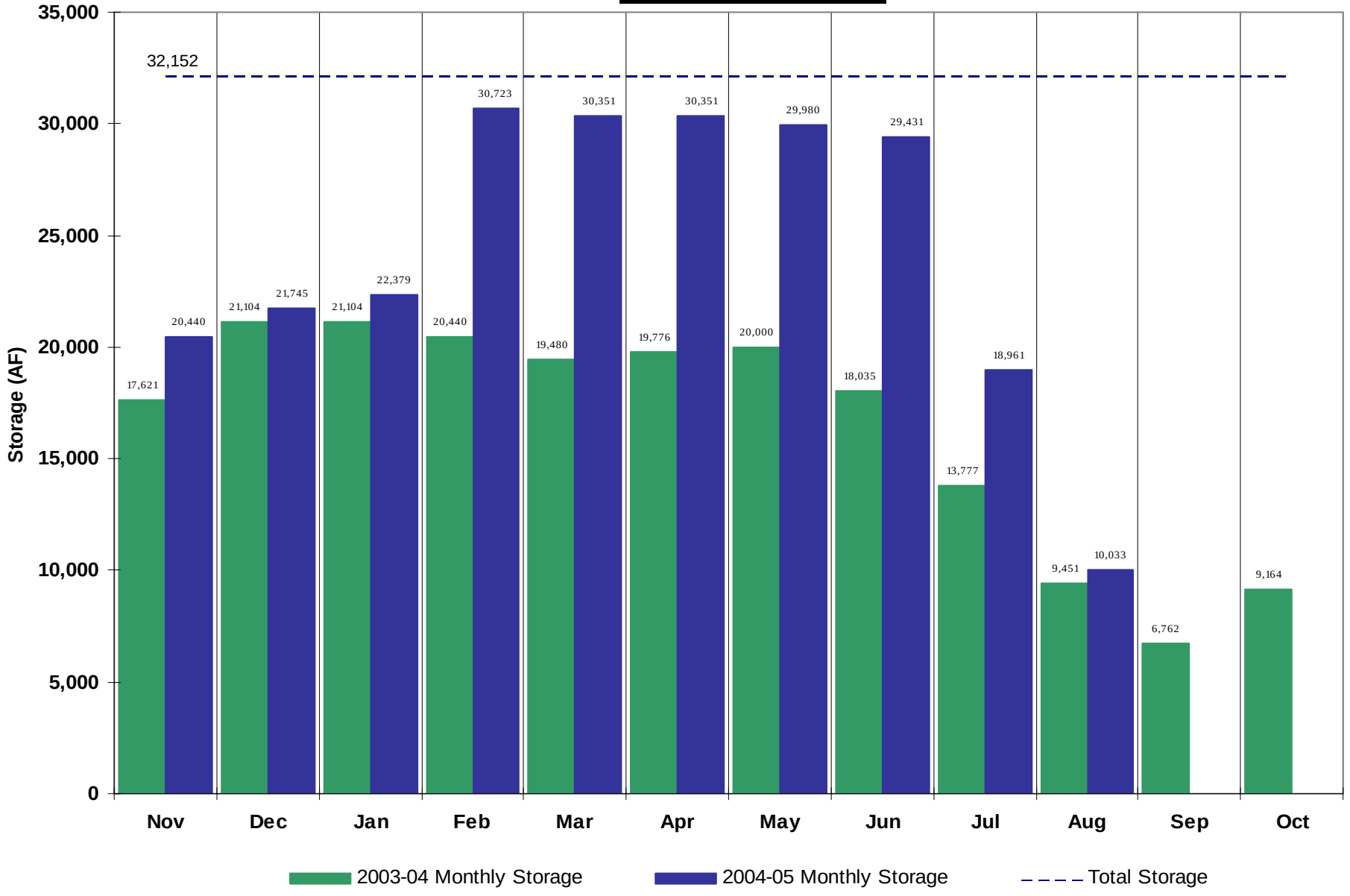


Riverside Reservoir

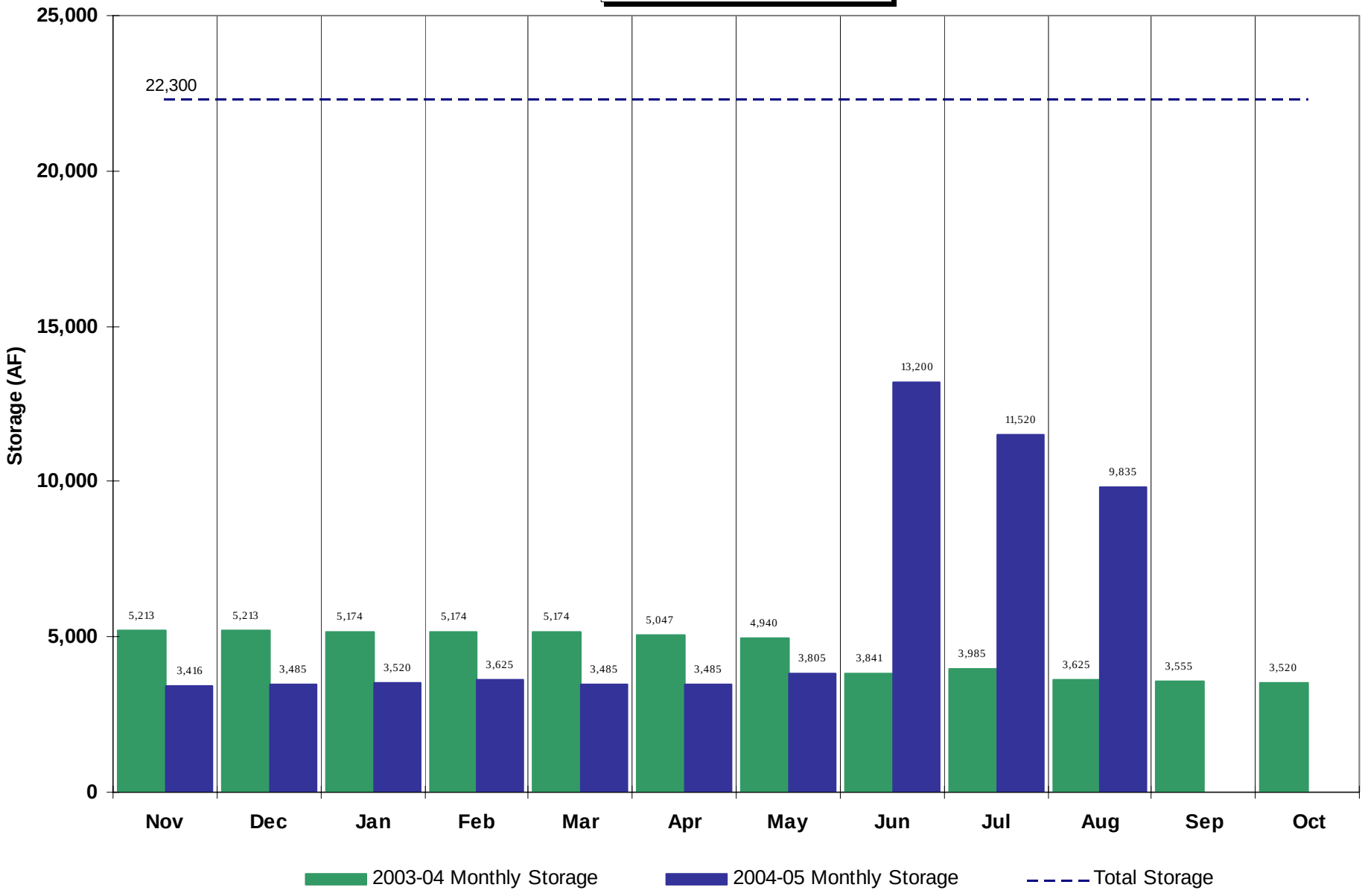
(Agricultural)



Barr Lake
(Agricultural)

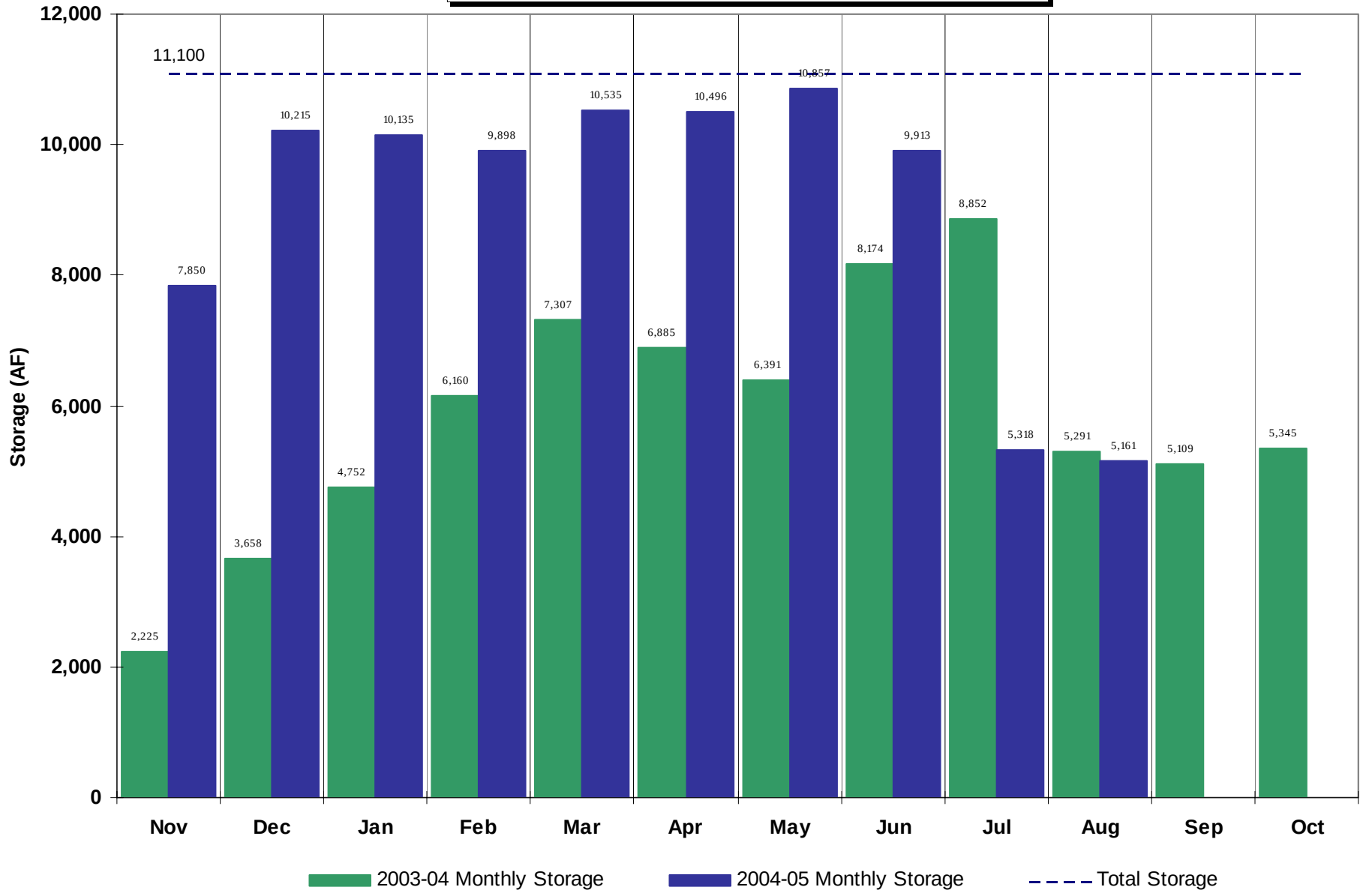


Cobb Lake
(Agricultural)



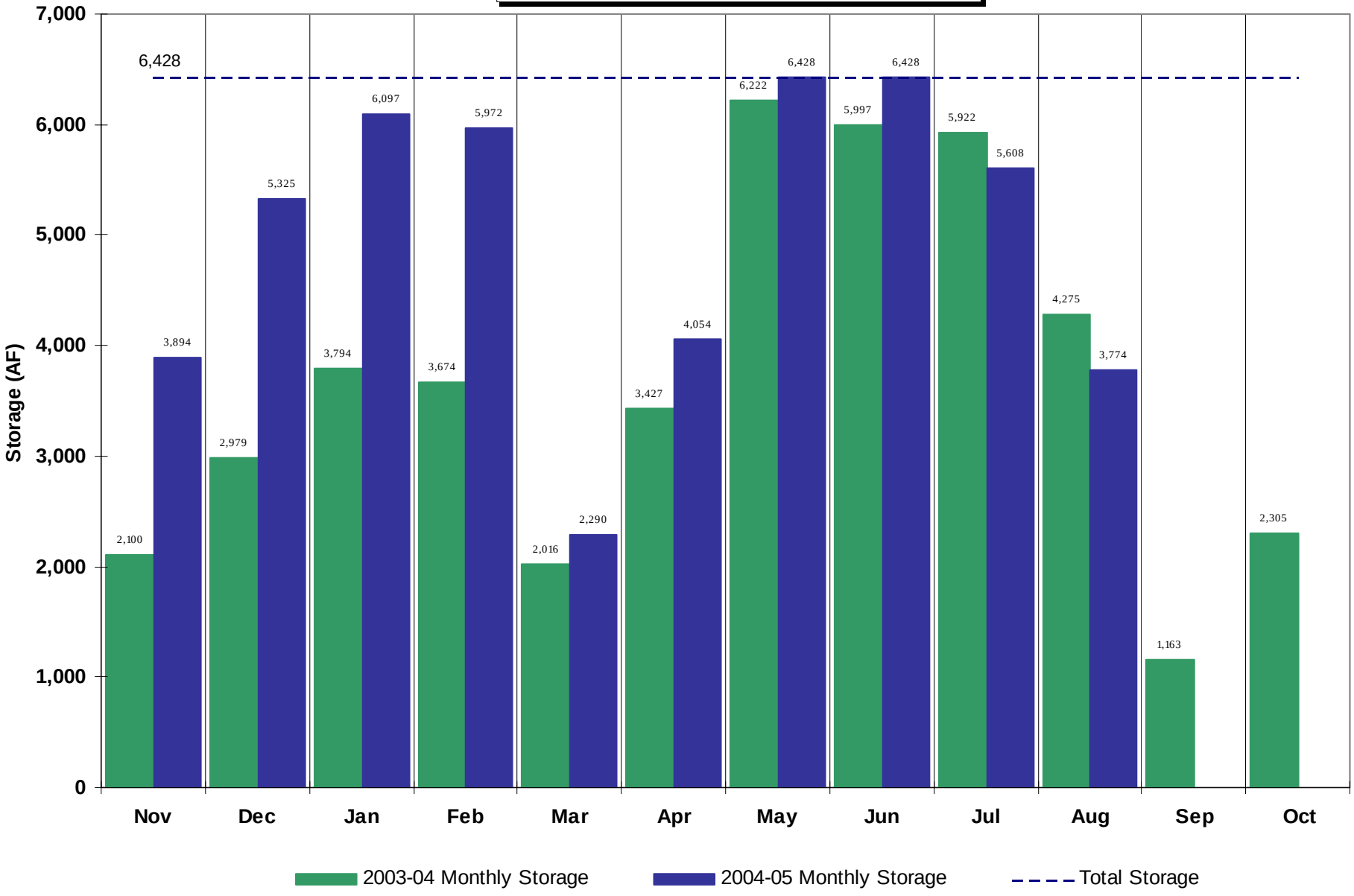
Fossil Creek Reservoir

(Agricultural)



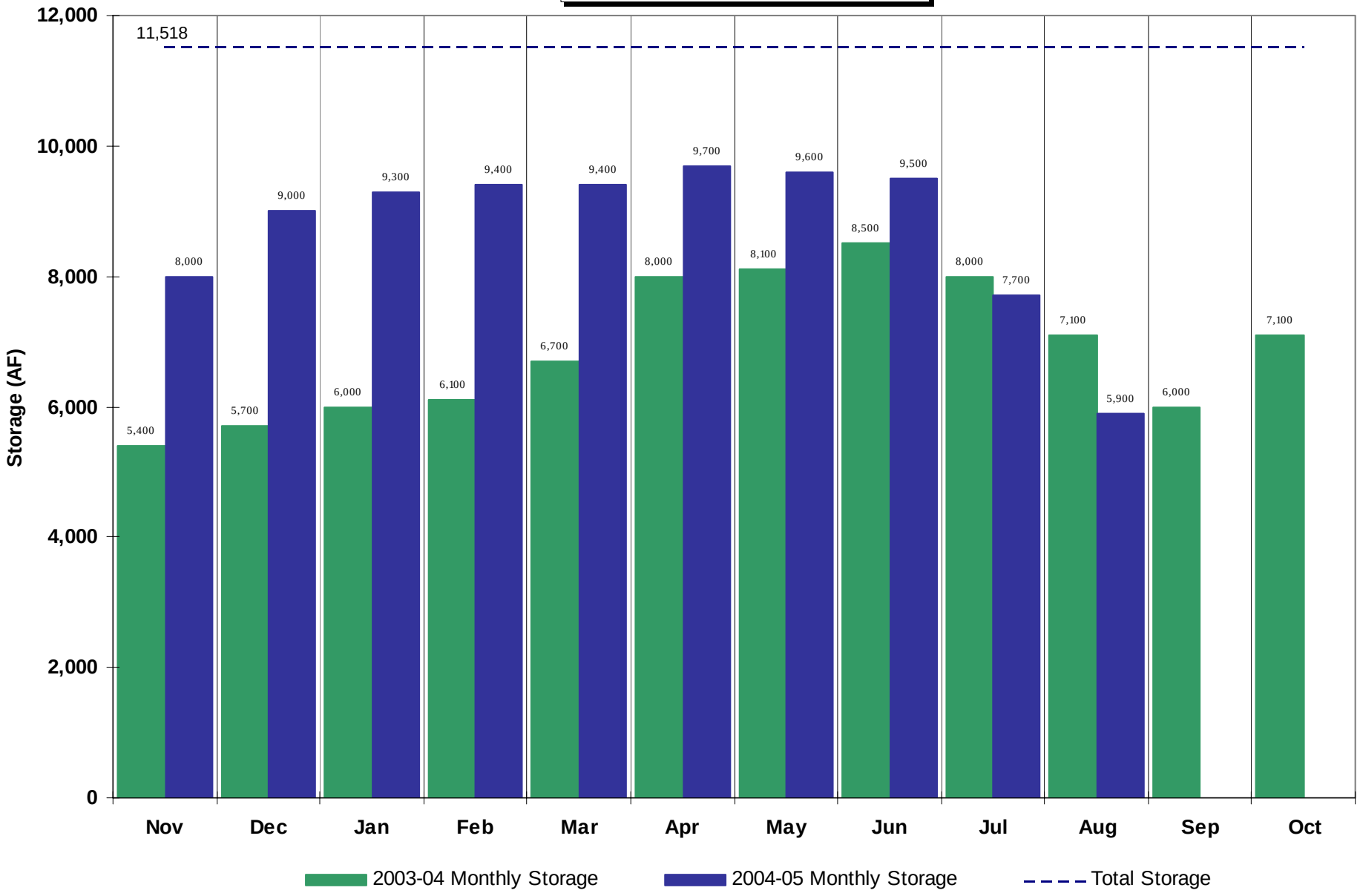
Halligan Reservoir

(Agricultural)



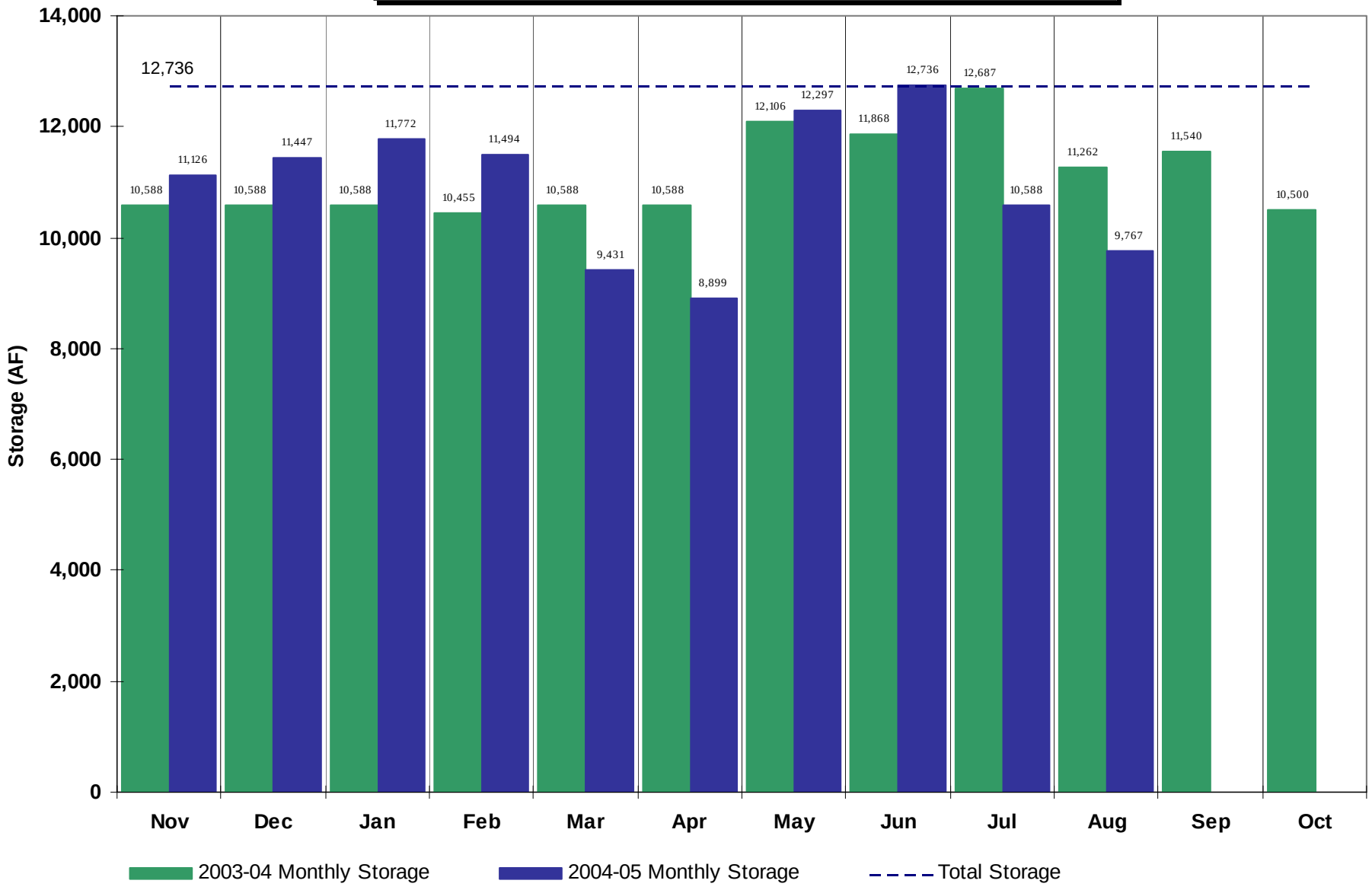
Marshall Lake

(Agricultural)



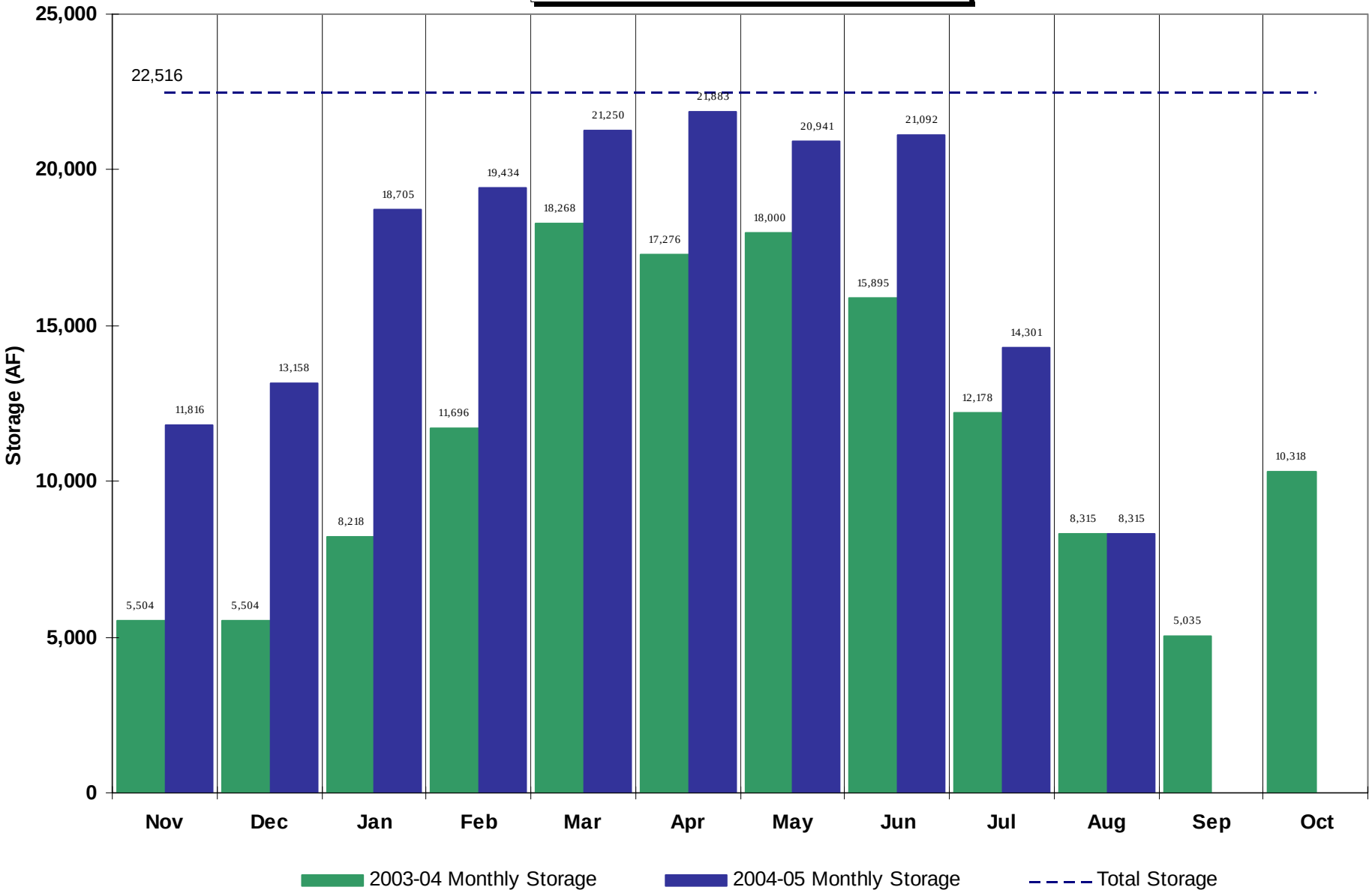
Loveland Greeley Reservoir

(Agricultural)



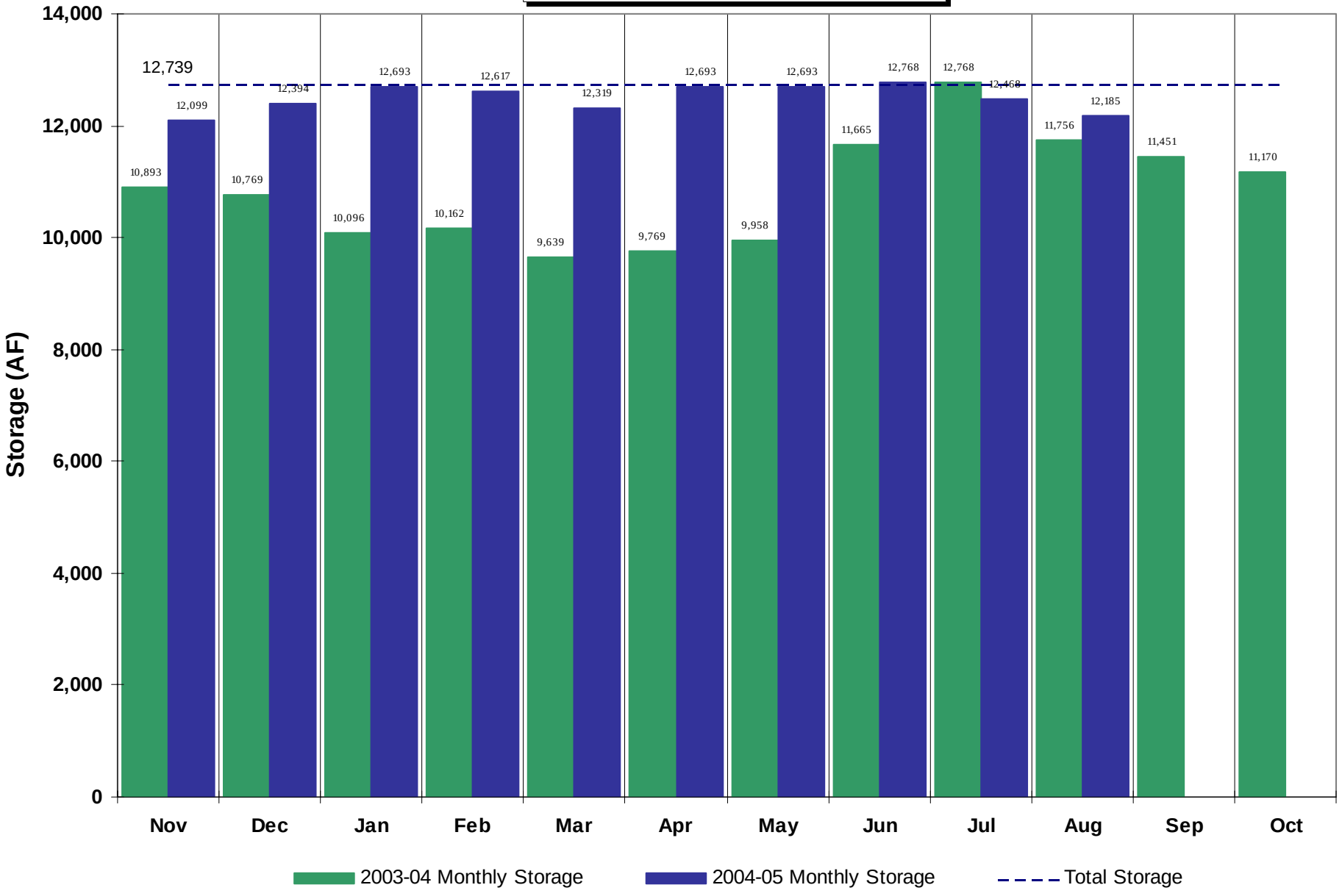
Milton Reservoir

(Agricultural)

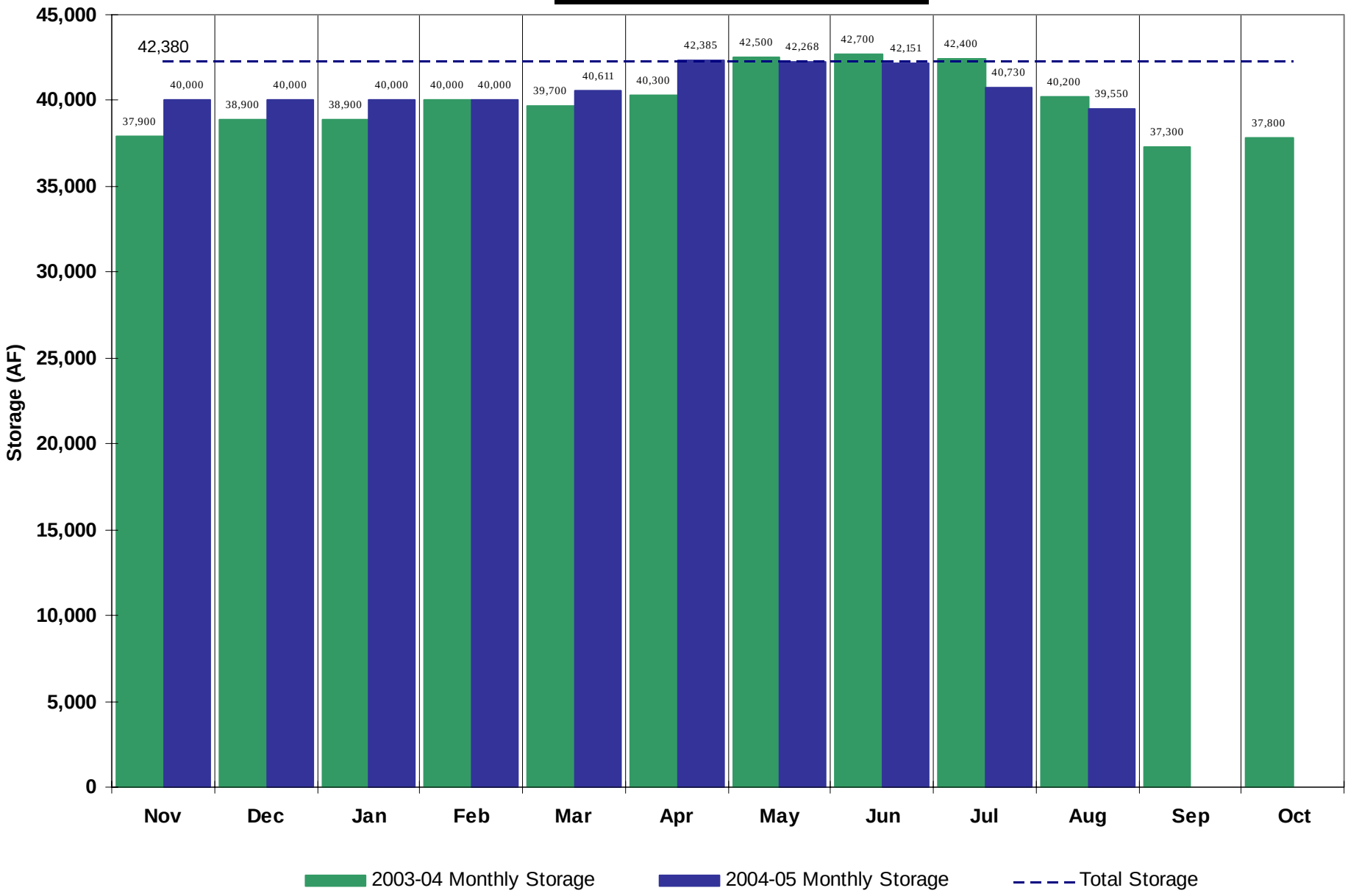


Union Reservoir

(Agricultural)

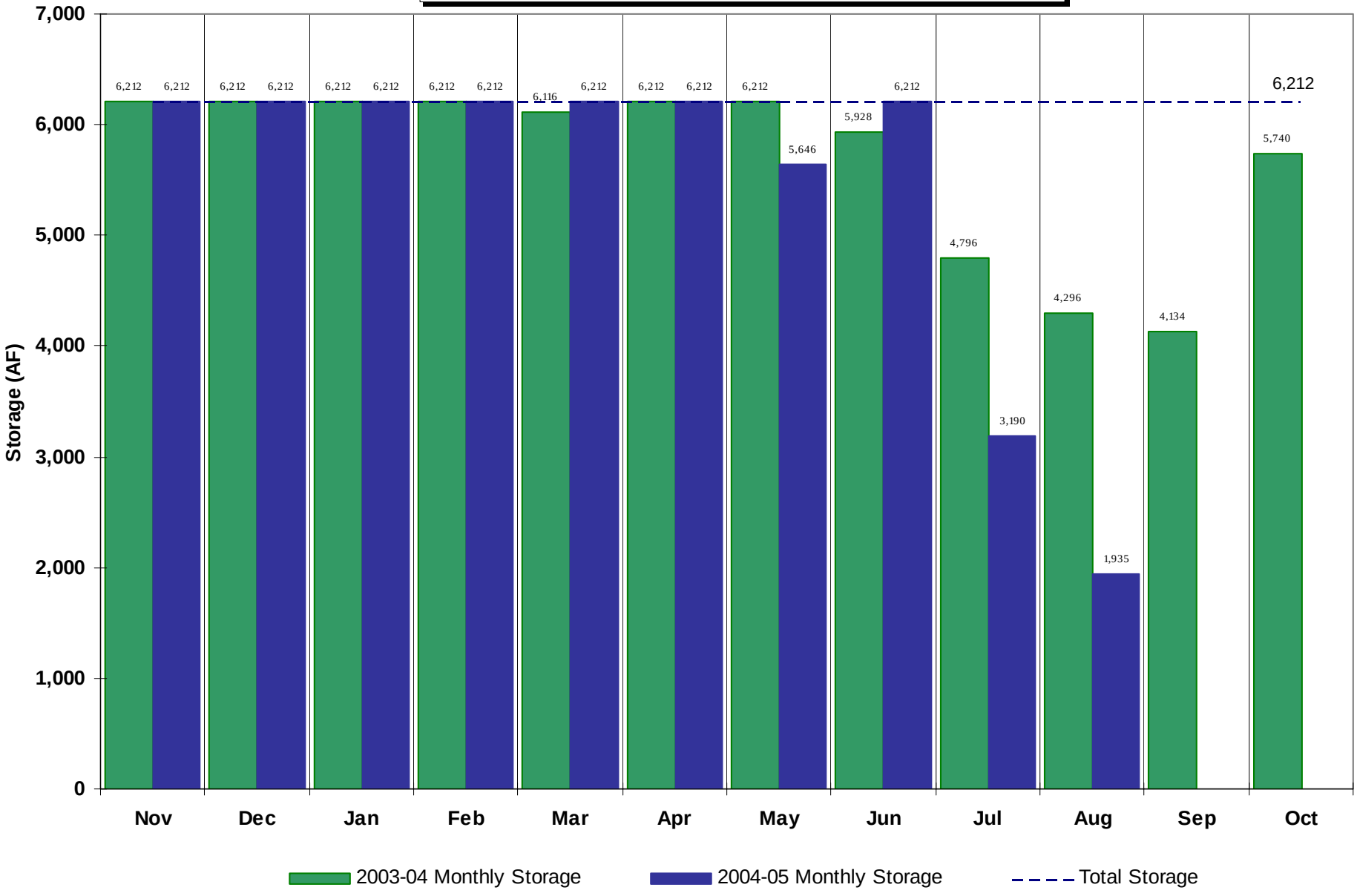


Standley Lake
(Agricultural)

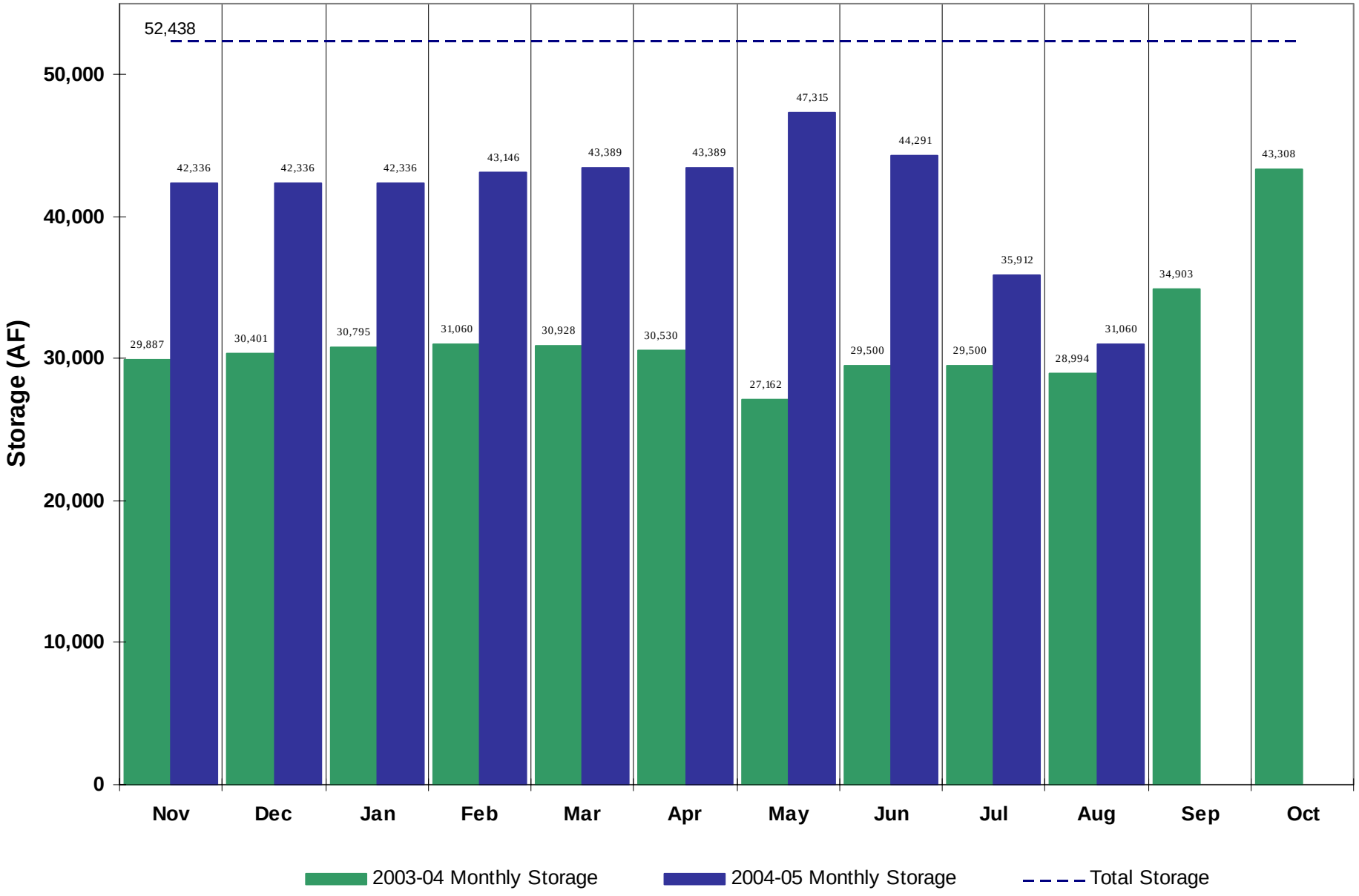


Lower Latham Reservoir

(Agricultural)

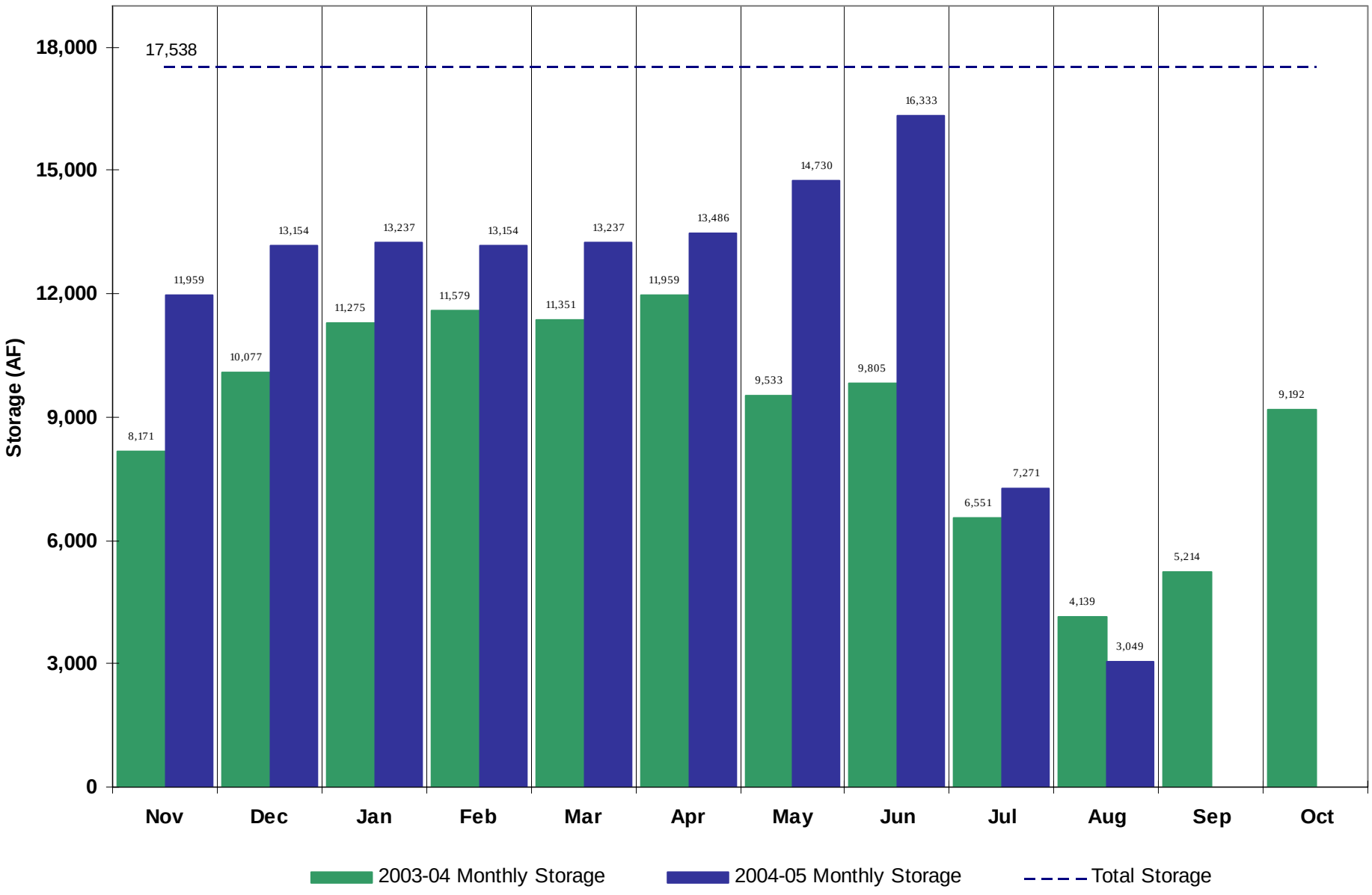


Boyd Lake
(Agricultural)



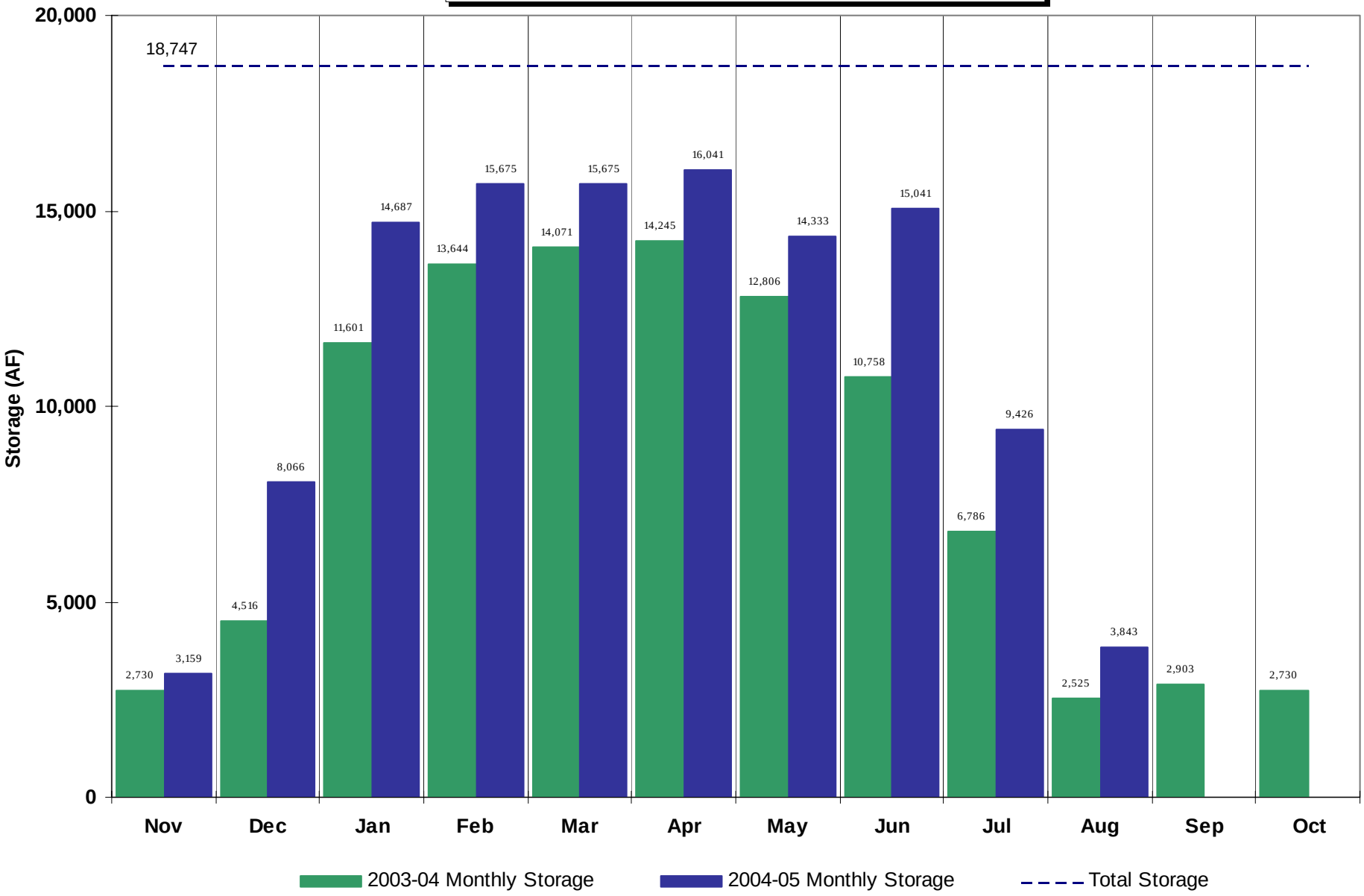
Windsor Reservoir

(Agricultural)



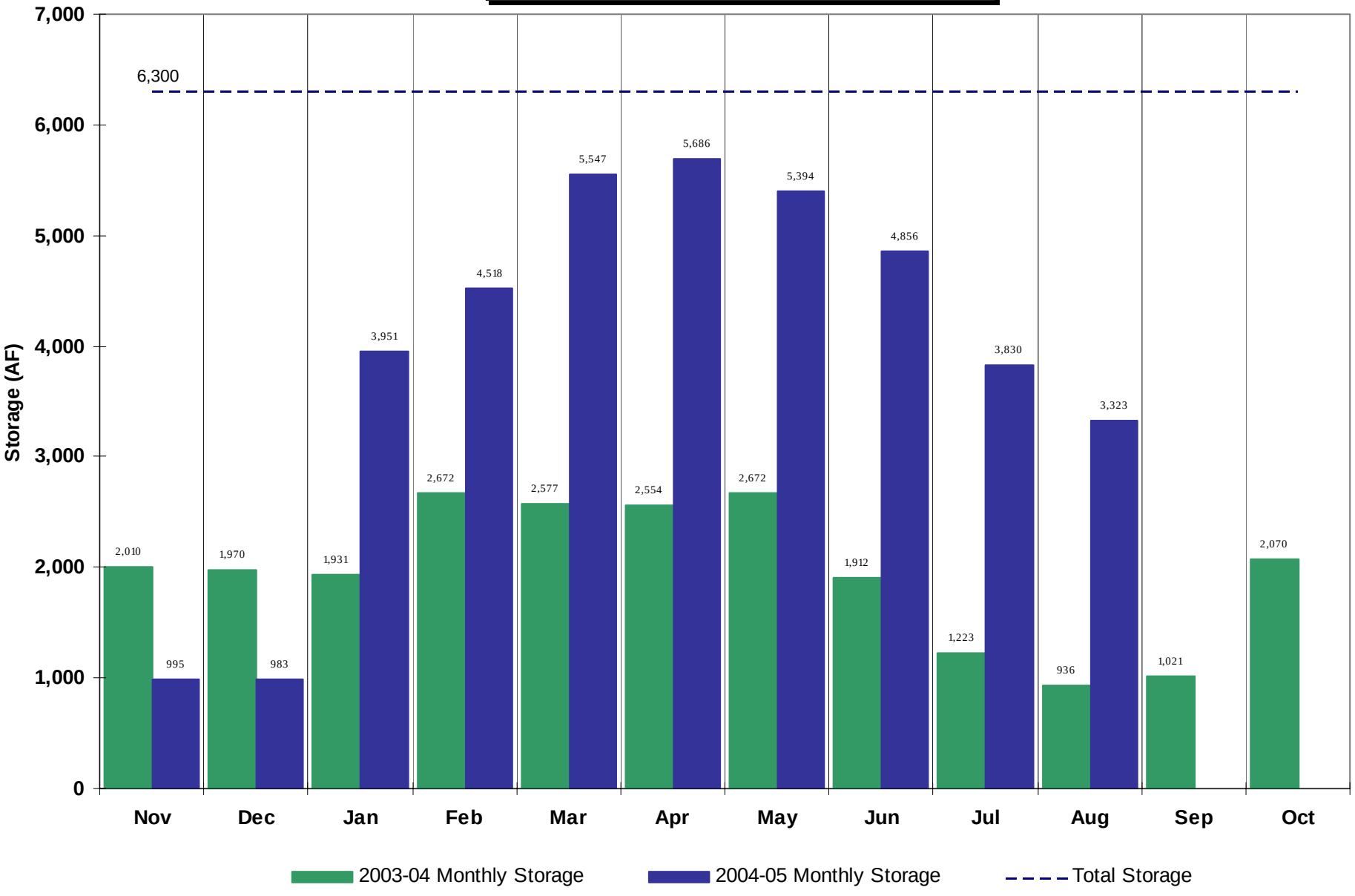
Horse Creek Reservoir

(Agricultural)



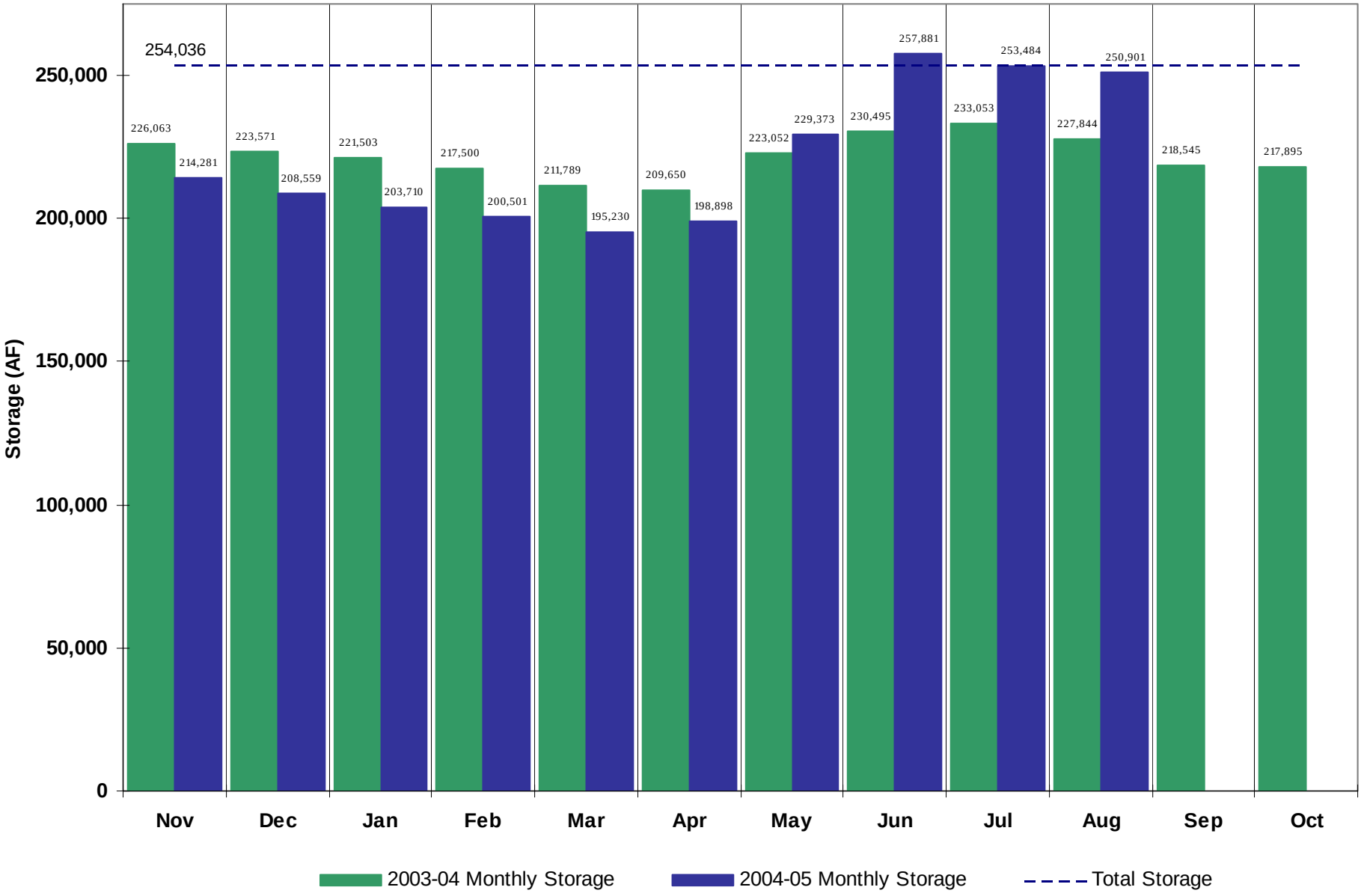
Prospect Reservoir

(Agricultural)



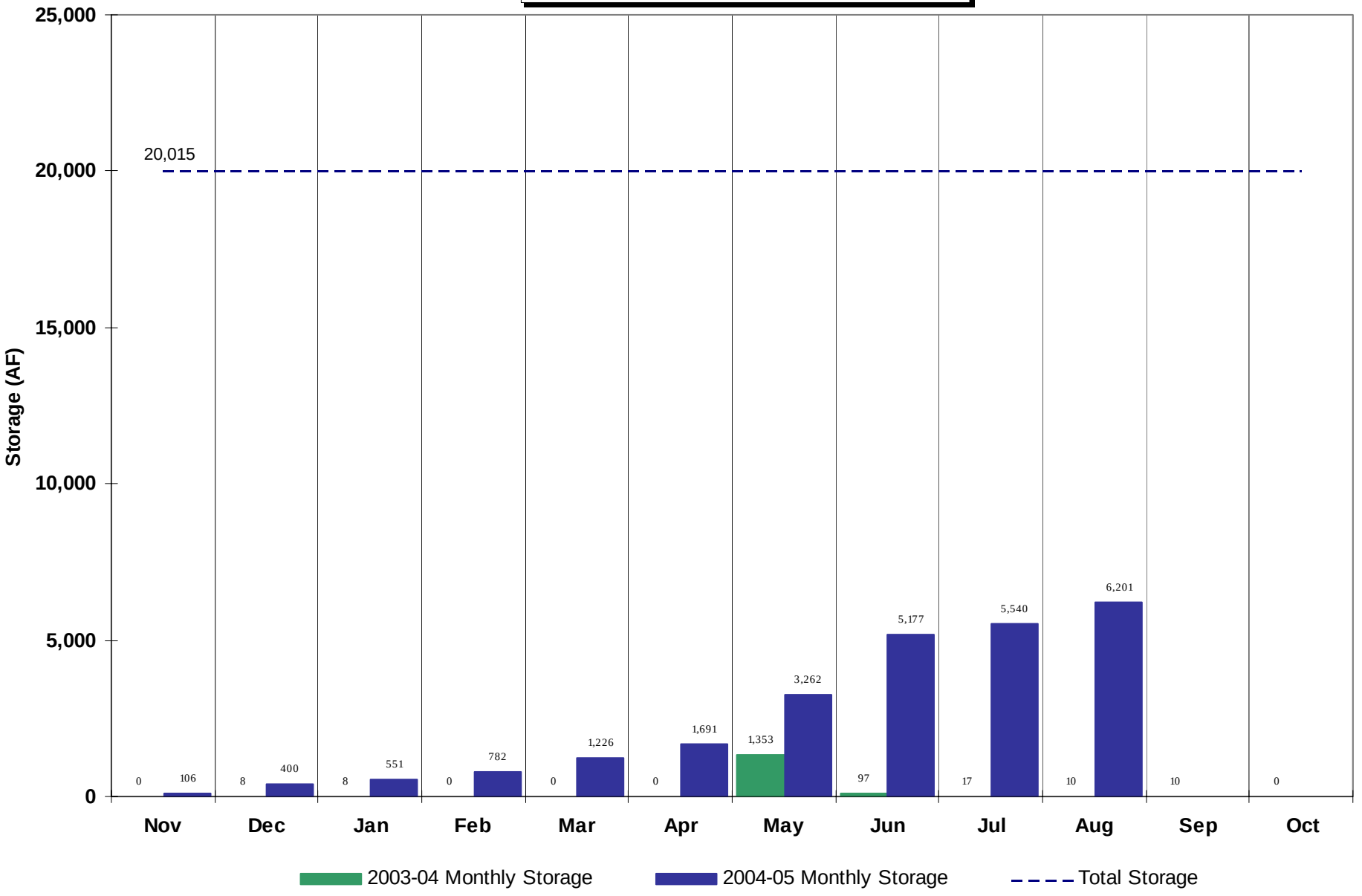
Dillon Reservoir

(Municipal)



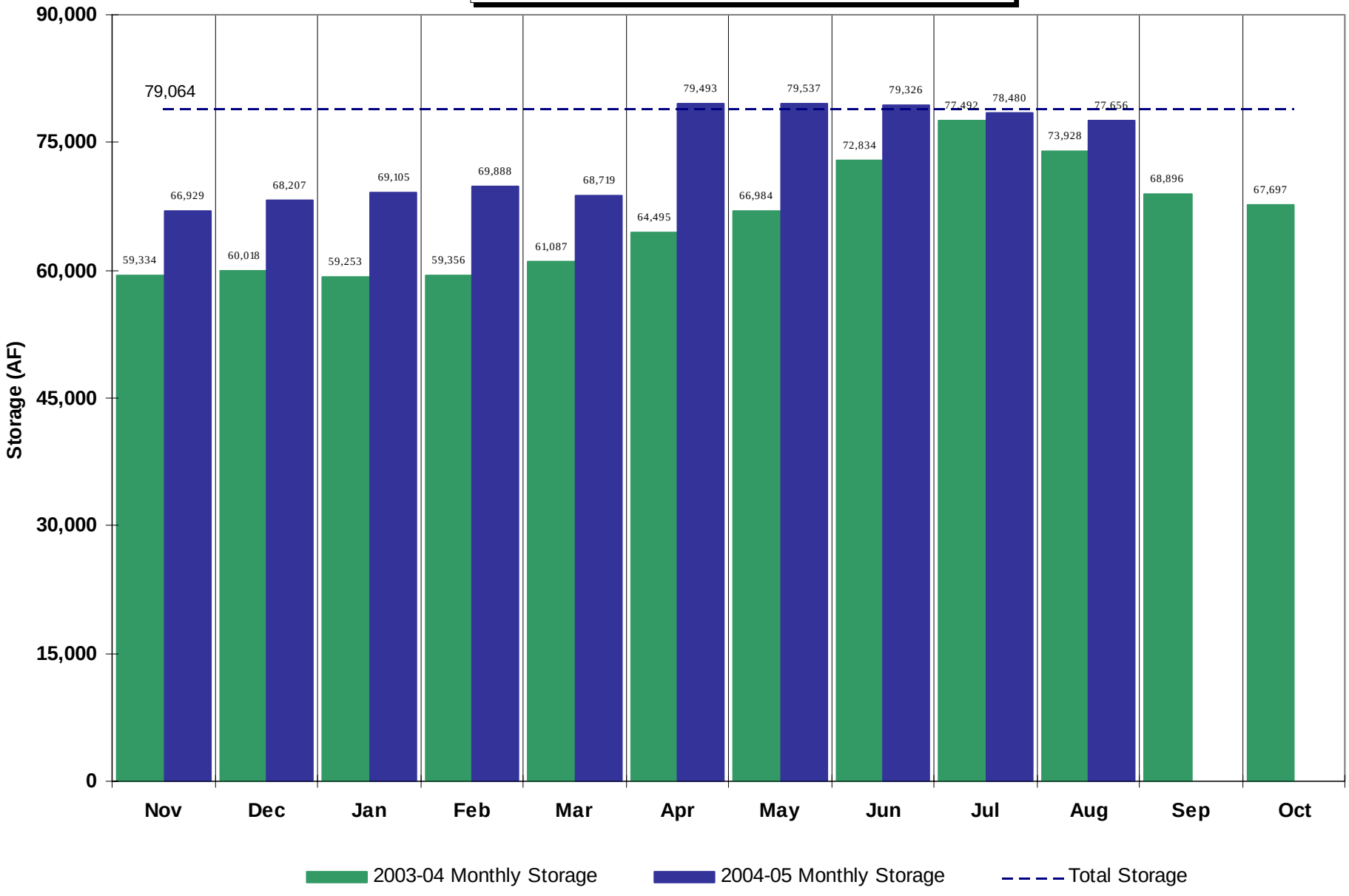
Antero Reservoir

(Municipal)



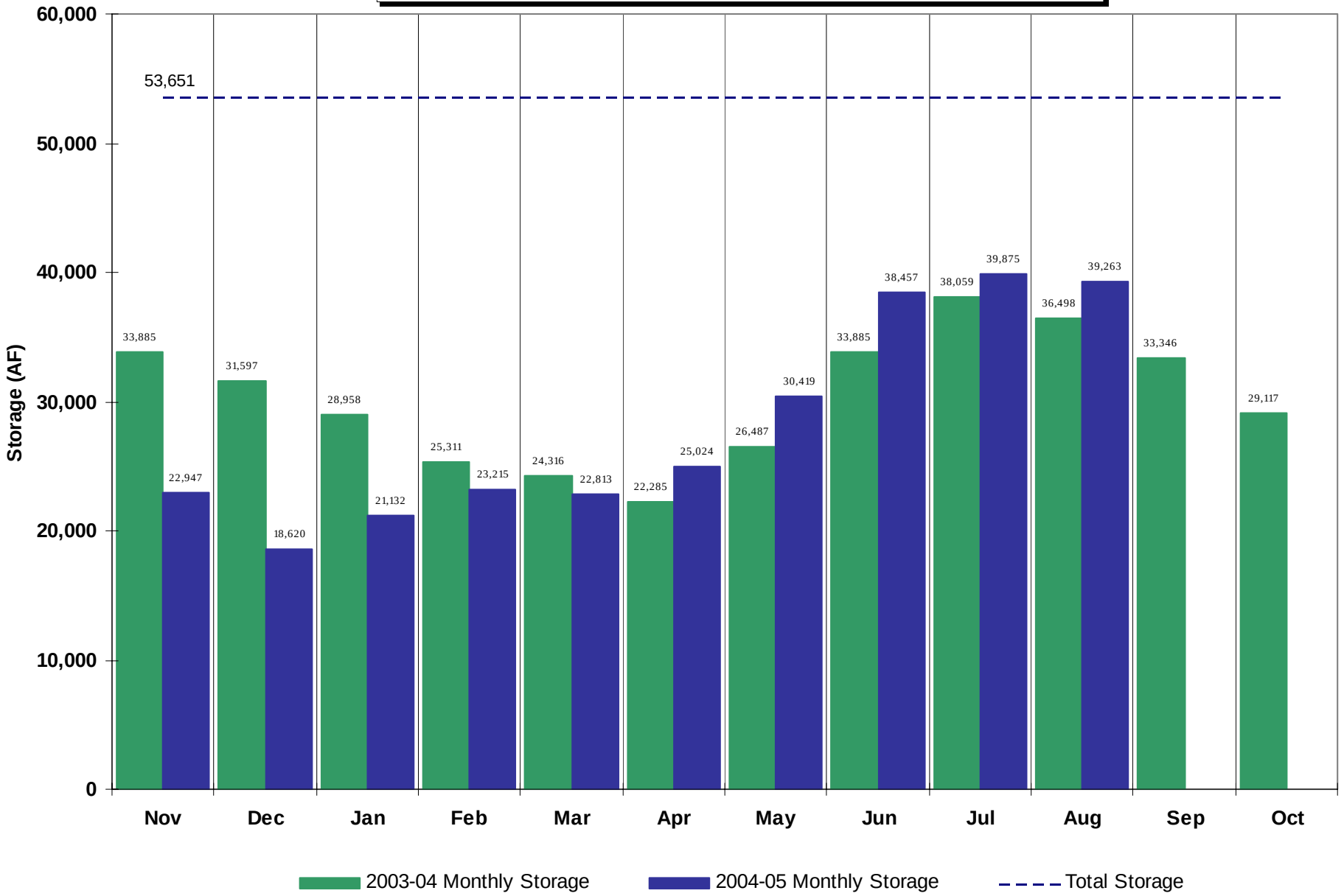
Cheesman Reservoir

(Municipal)



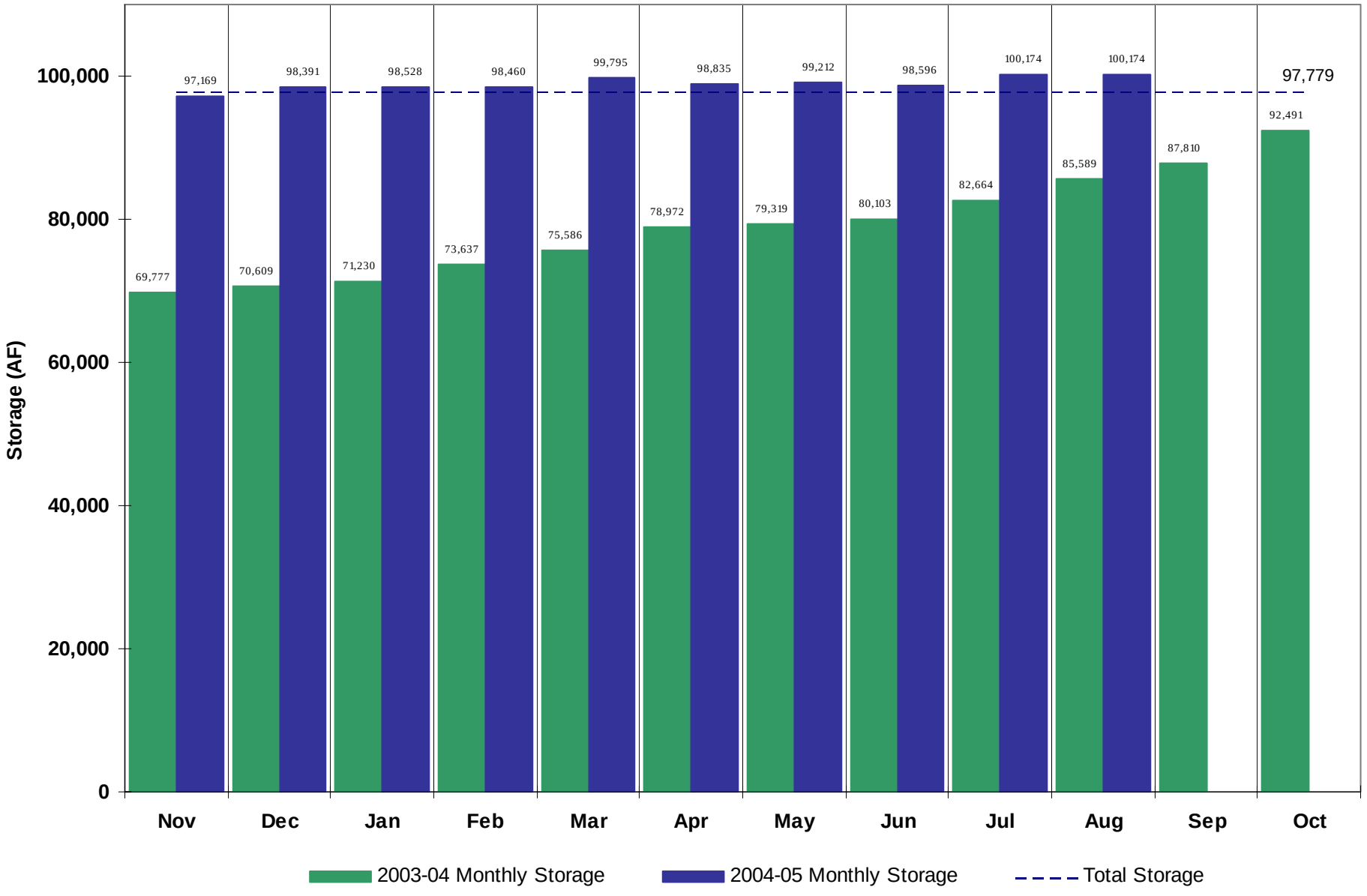
Spinney Mountain Reservoir

(Municipal)

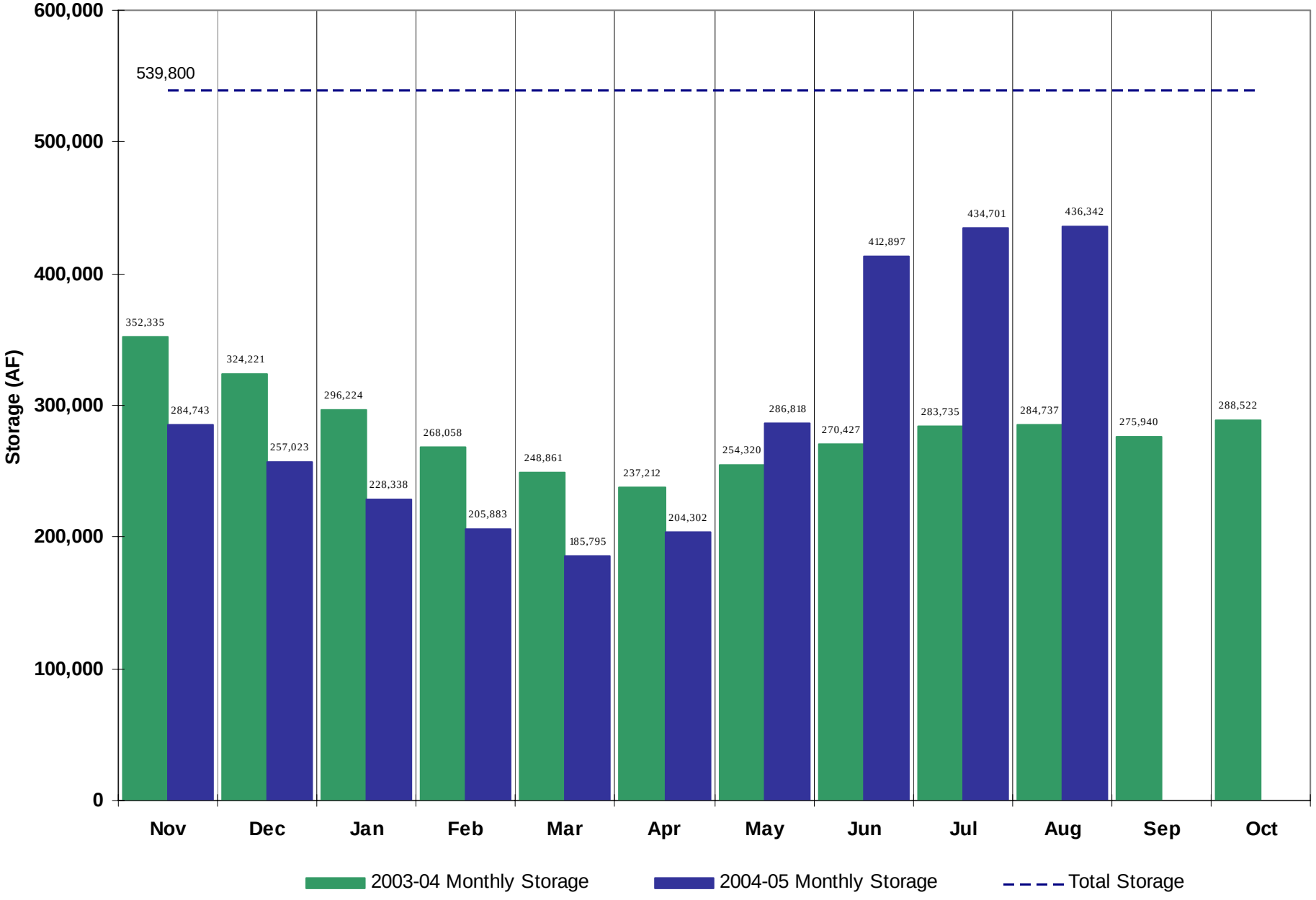


Eleven Mile Reservoir

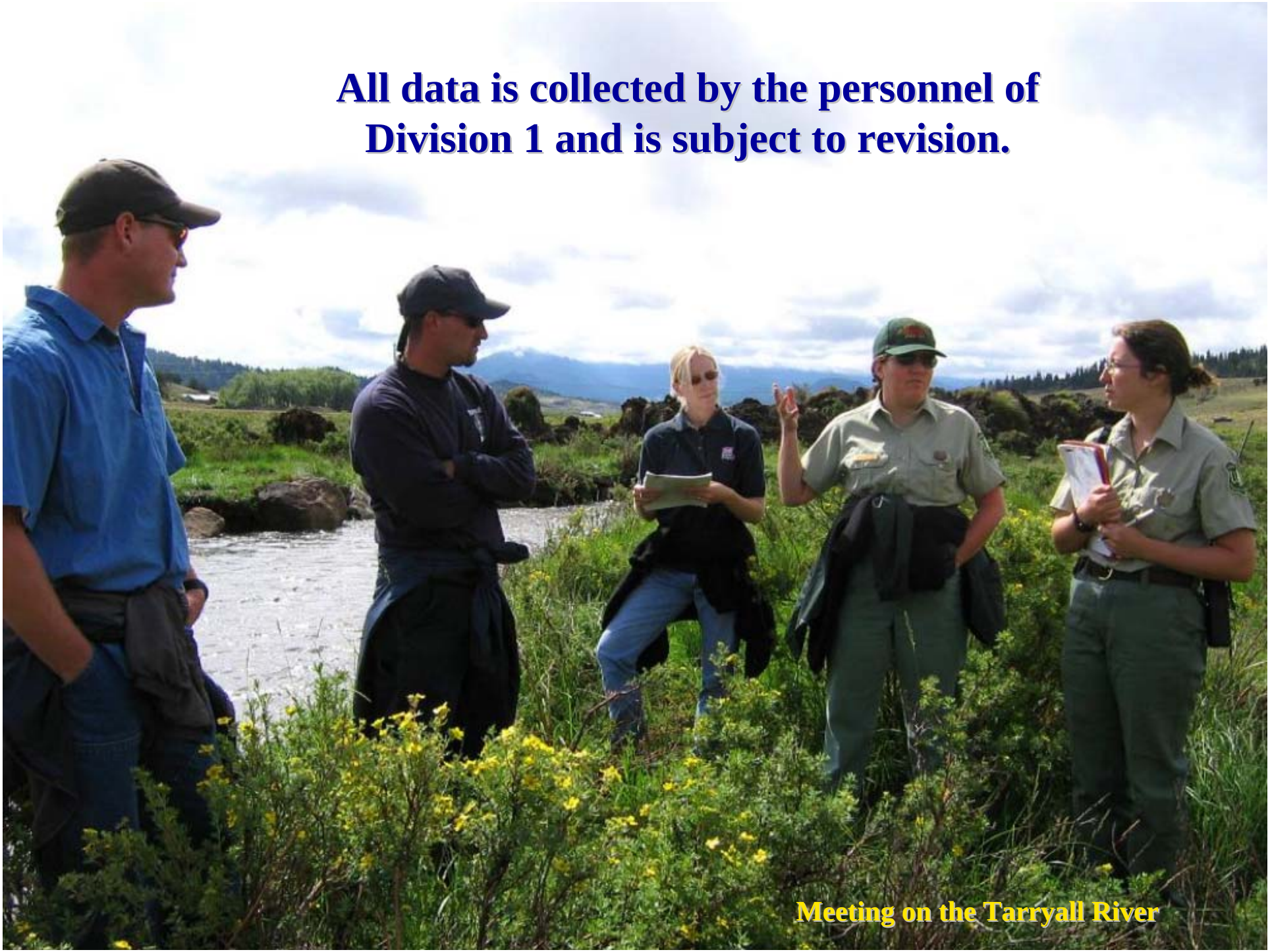
(Municipal)



Lake Granby


600,000
500,000
400,000
300,000
200,000
100,000
0
Storage (AF)
539,800
352,335
284,743
324,221
257,023
296,224
228,338
268,058
205,883
248,861
185,795
237,212
204,302
254,320
286,818
270,427
412,897
283,735
434,701
284,737
436,342
275,940
288,522
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
2003-04 Monthly Storage
2004-05 Monthly Storage
Total Storage

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



Meeting on the Tarryall River