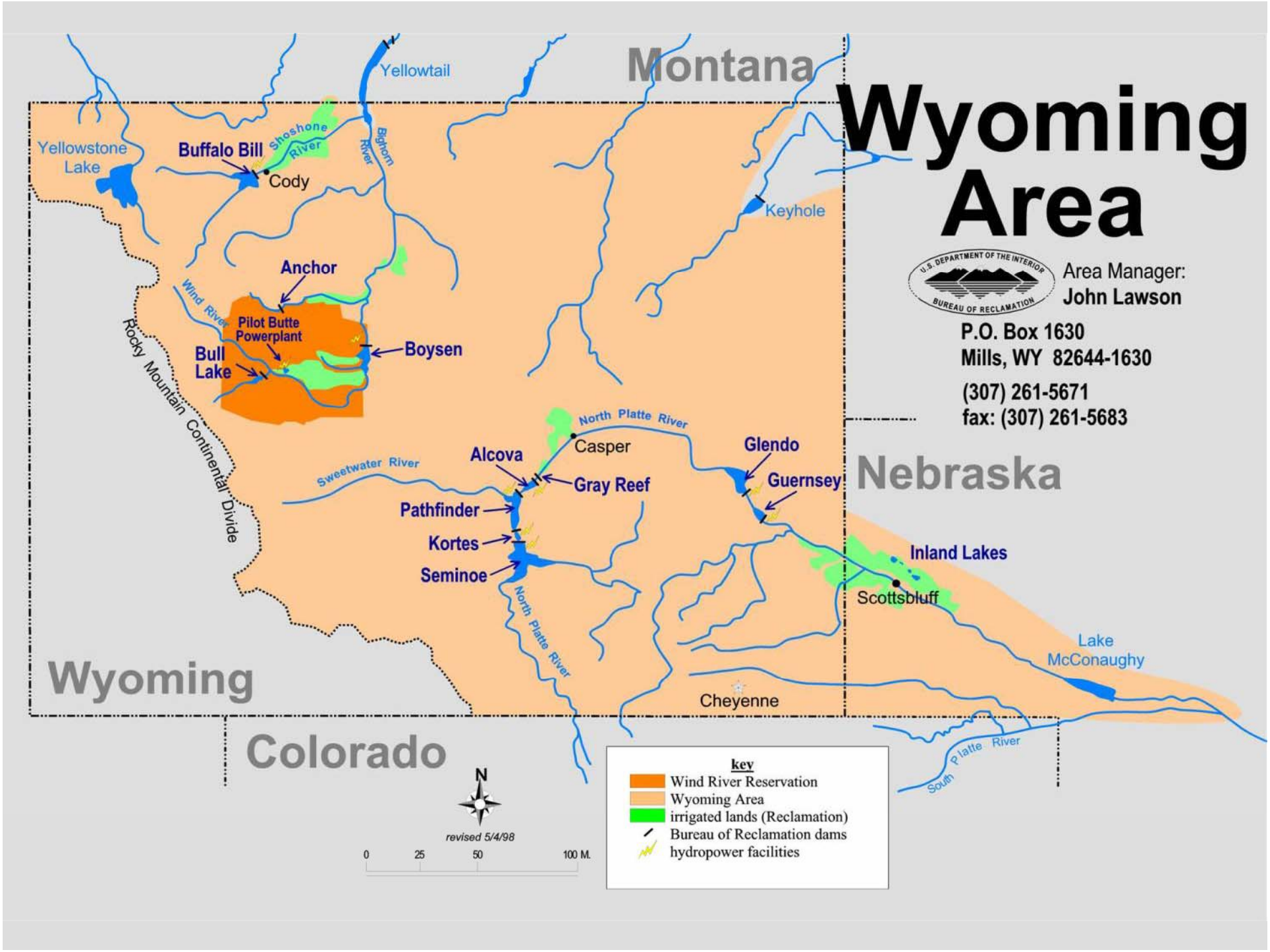
RECLAMATION

Managing Water in the West

Climate Issues Committee

John H. Lawson
Area Manager
Wyoming Area Office

November 22, 2010



U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
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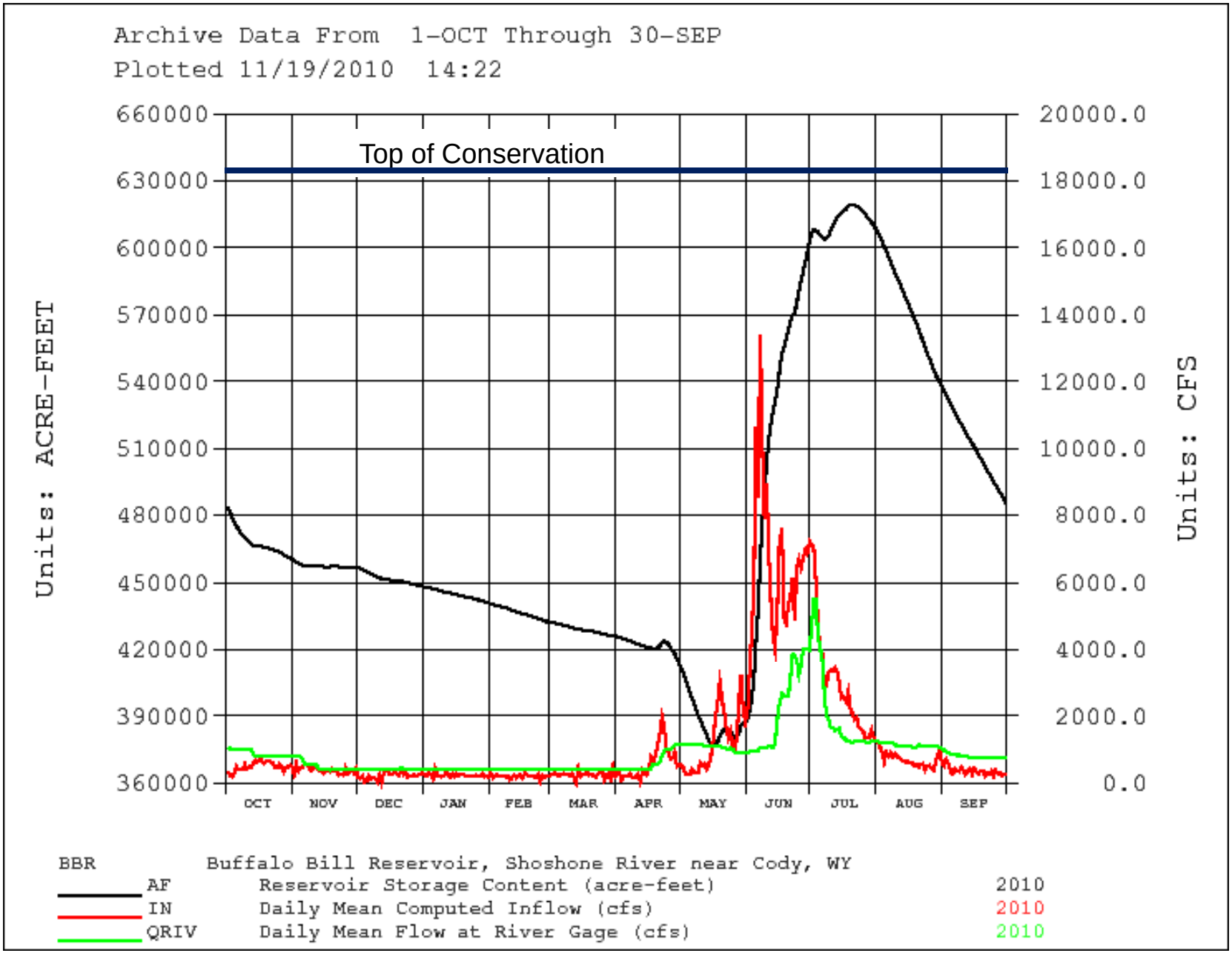
Water Year 2010 Summary (1000 x acre-feet)

Reservoir	Annual Inflow	Annual Outflow	Reservoir Content 9/30/2009	Reservoir Content 9/30/2010
Buffalo Bill	845 (101% Avg)	846 (101% Avg)	486	486 (110% Avg)
Boysen	1,193 (127% Avg)	1,214 (130% Avg)	660	639 (107% Avg)
North Platte System	2,077 (154% Avg)	1,524 (135% Avg)	1,700	2,024 (142% Avg)

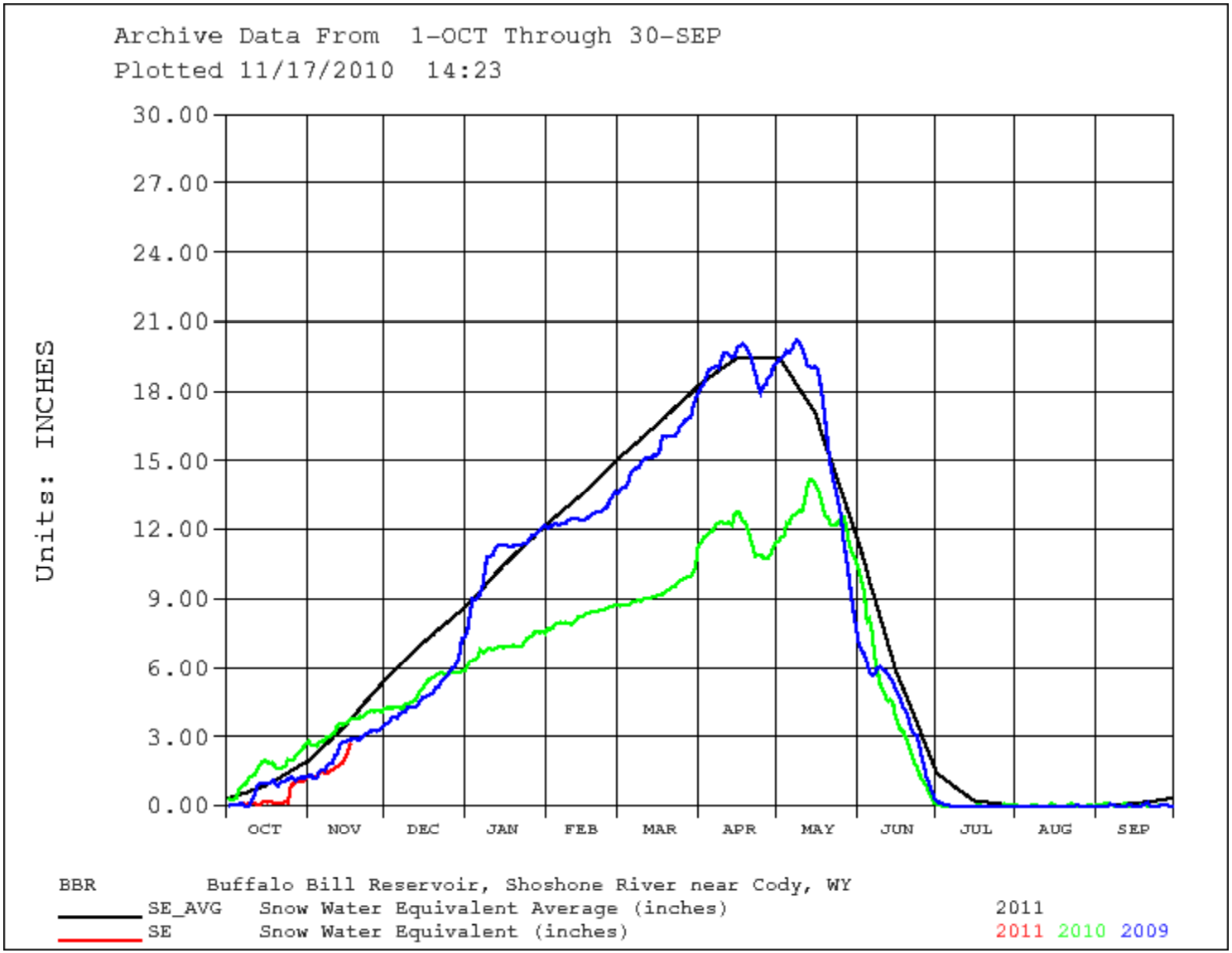
Average 1981-2010

Average 1993-2010 for Buffalo Bill Storage

Buffalo Bill Reservoir 2010 Operations

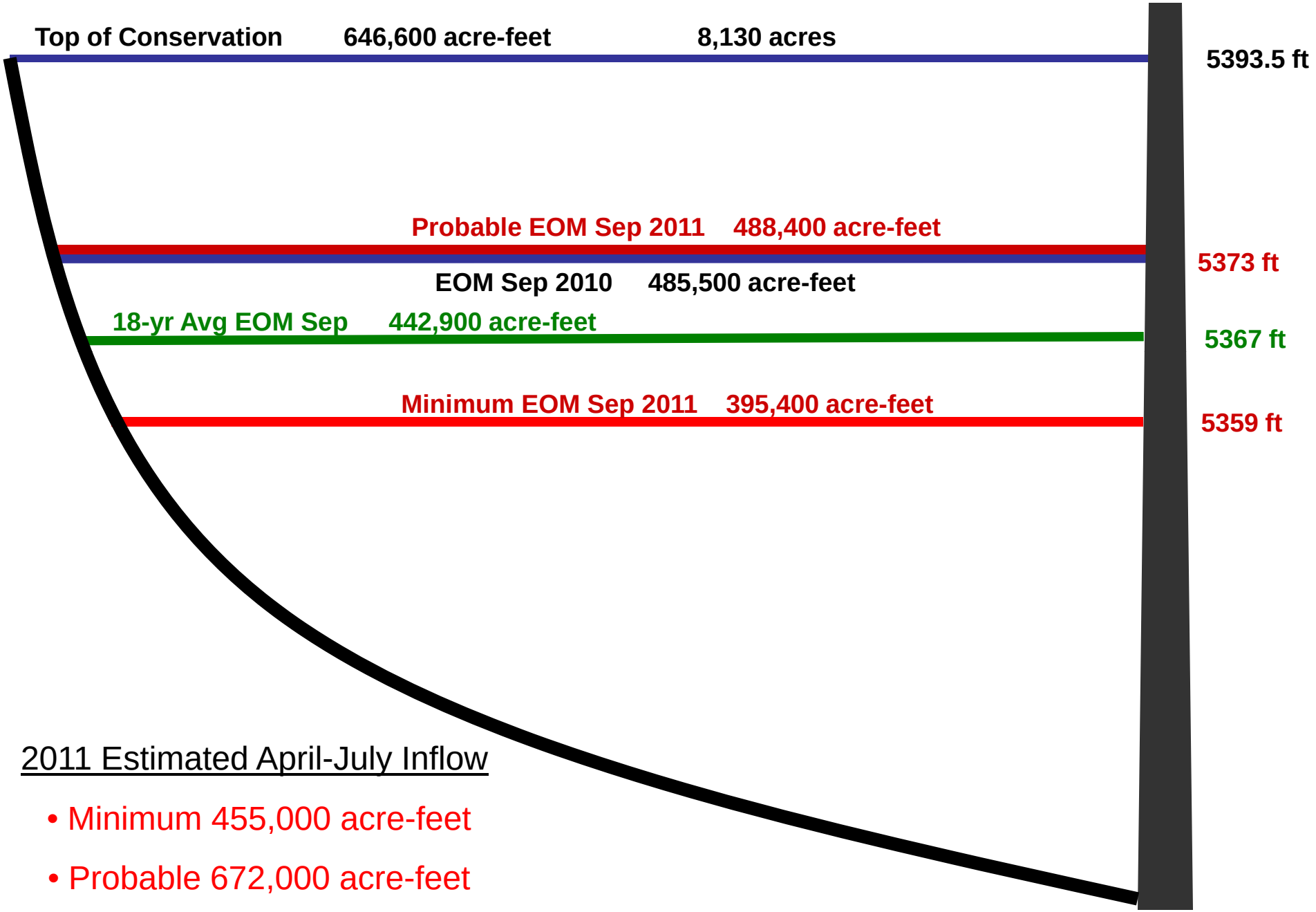


Basin above Buffalo Bill Reservoir
Snow Water Equivalent



Water Year	April-July Inflow (acre-feet)
2009	954,200
2010	674,200
2011	???
Average = 660,900	

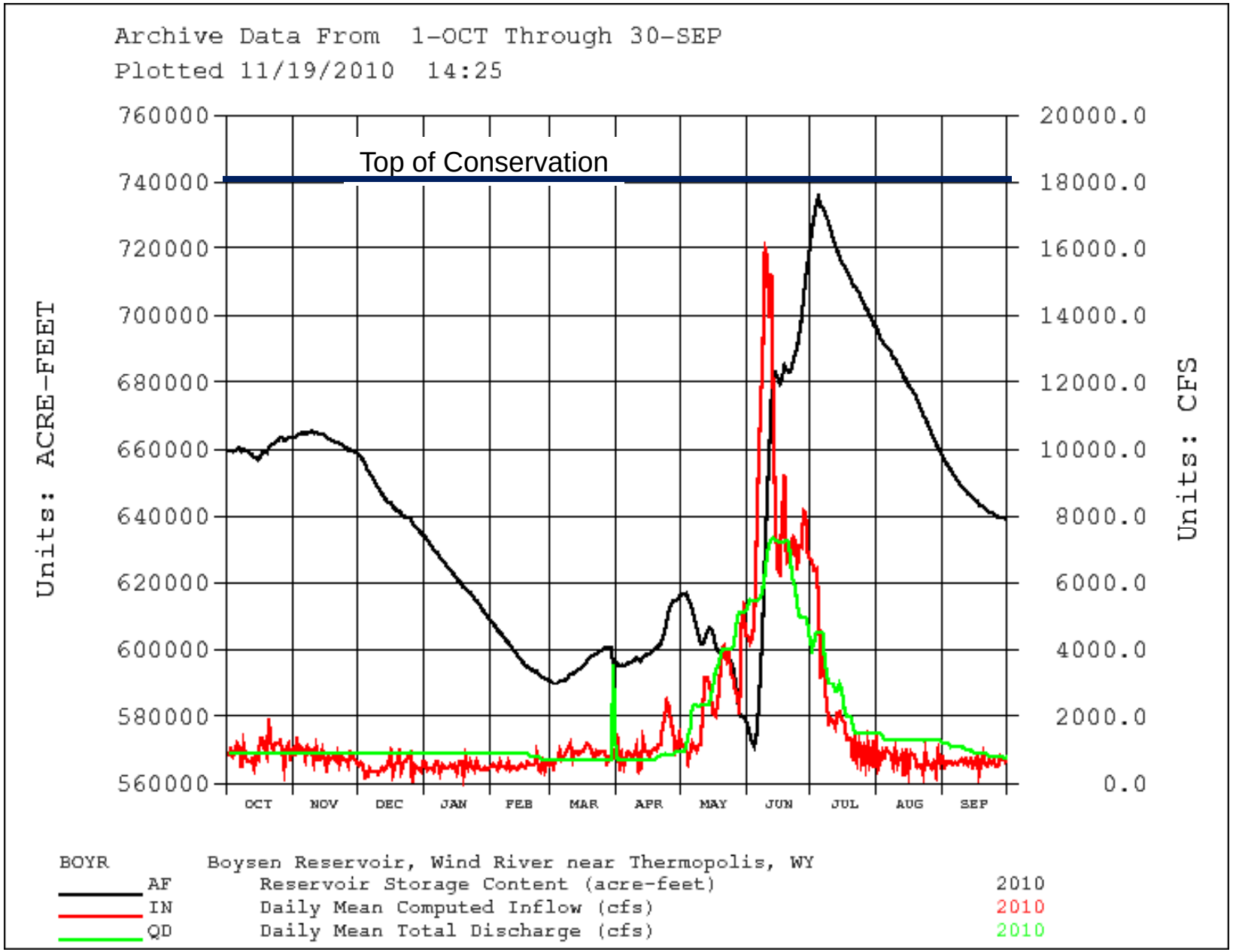
Buffalo Bill Reservoir



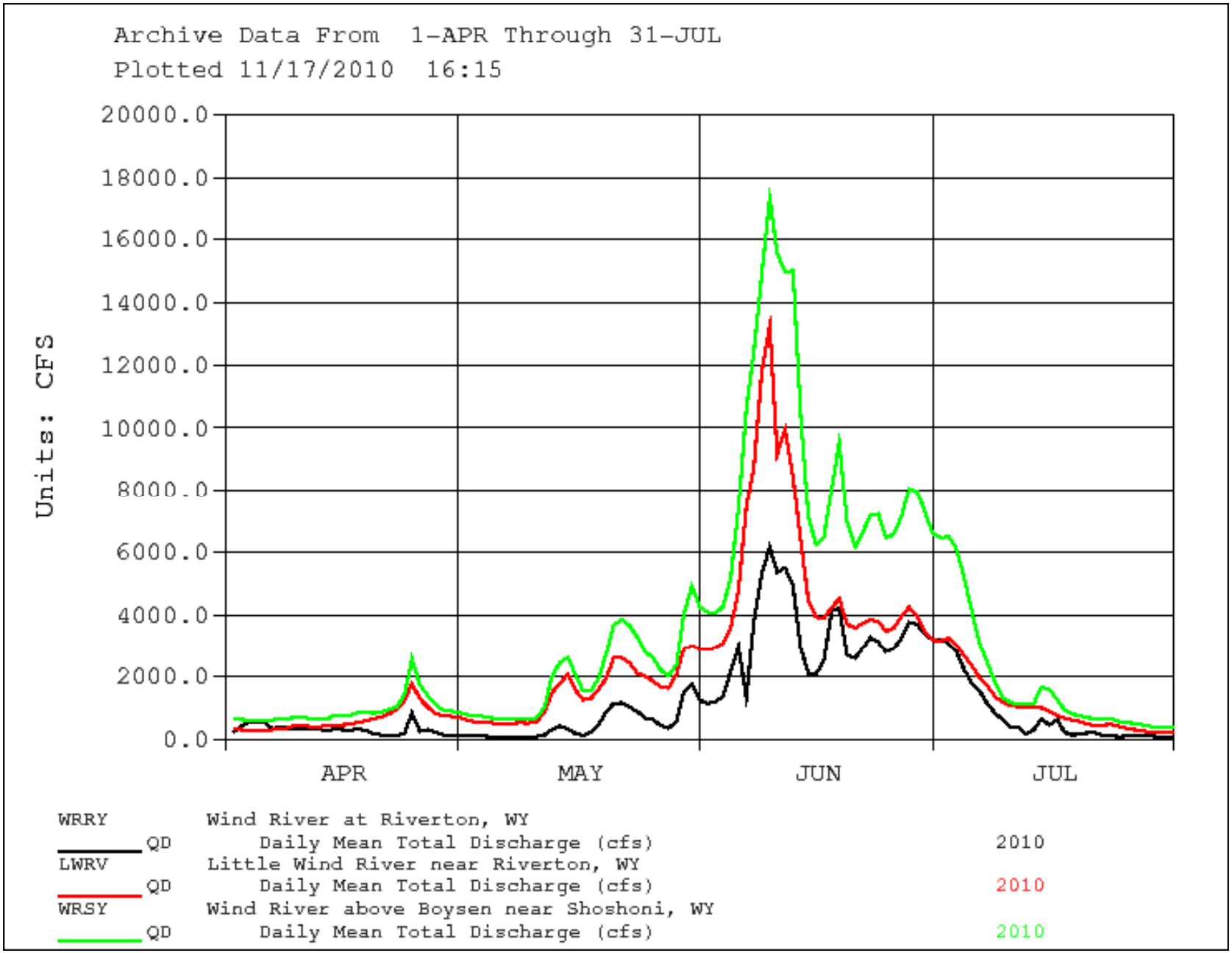
2011 Estimated April-July Inflow

- Minimum 455,000 acre-feet
- Probable 672,000 acre-feet

Boysen Reservoir 2010 Operation

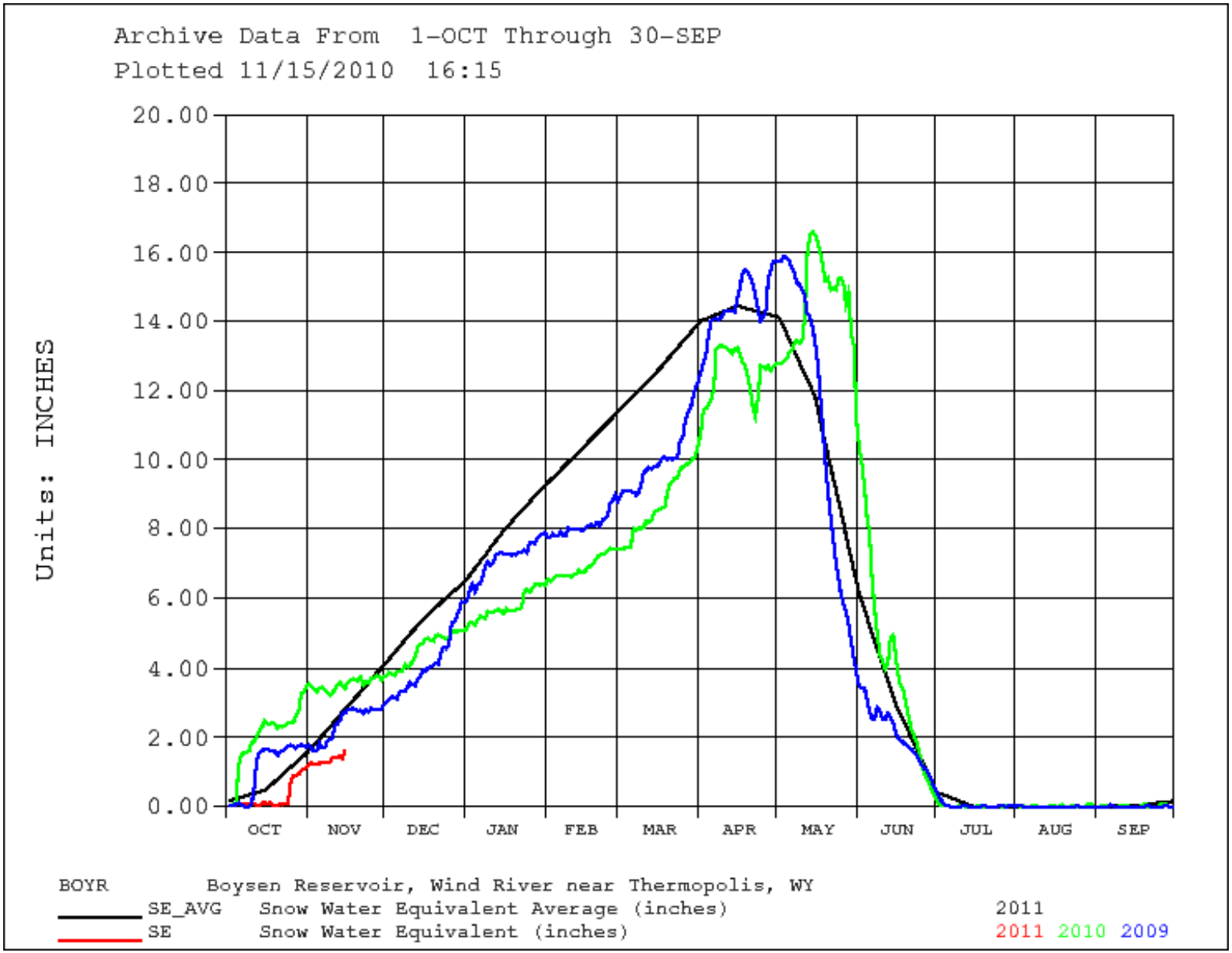


Wind and Little Wind River Flows Apr-July 2010



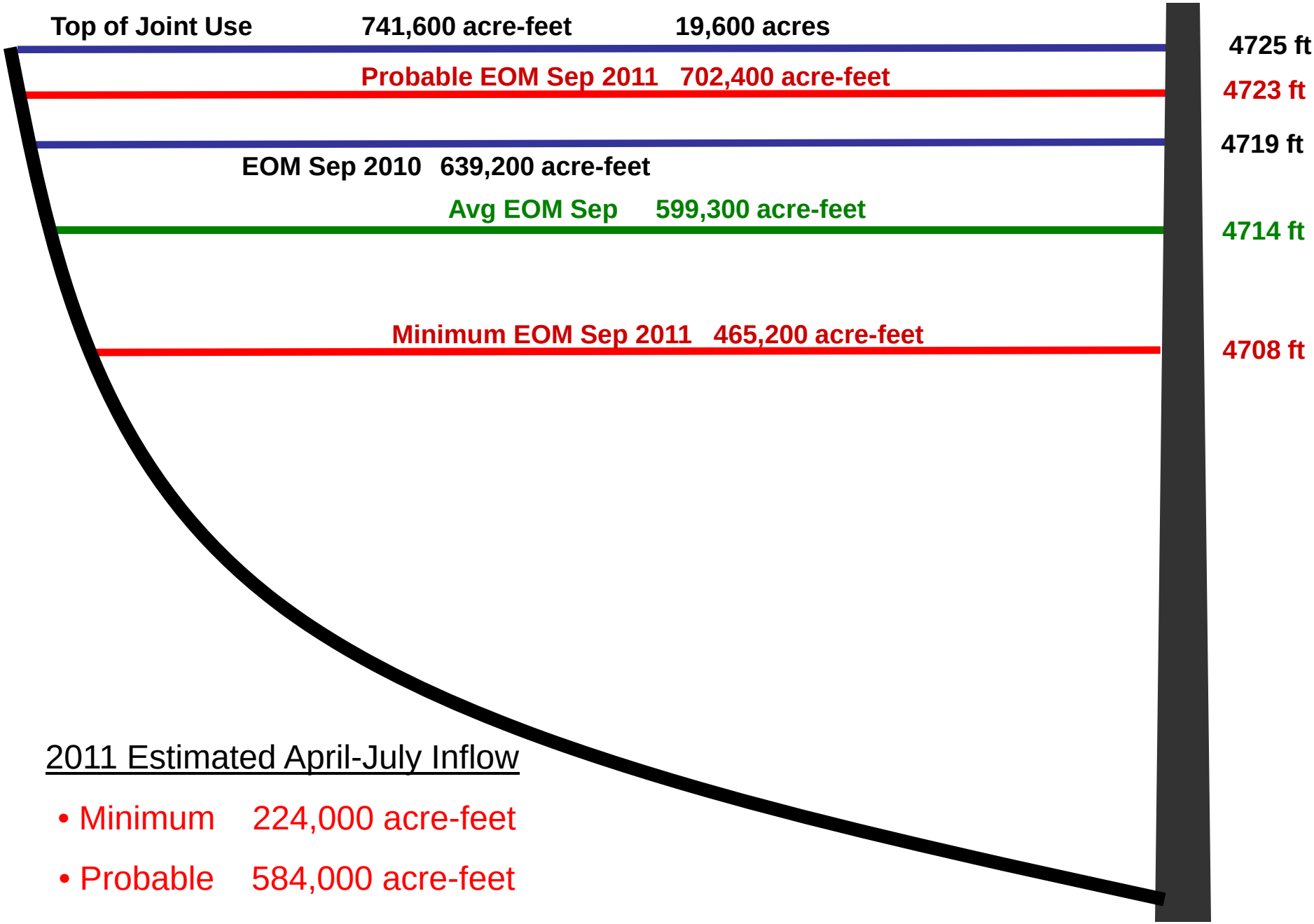
Basin above Boysen Reservoir

Snow Water Equivalent



Water Year	April-July Inflow (acre-feet)
2009	803,000
2010	860,900
2011	???
Average = 555,900	

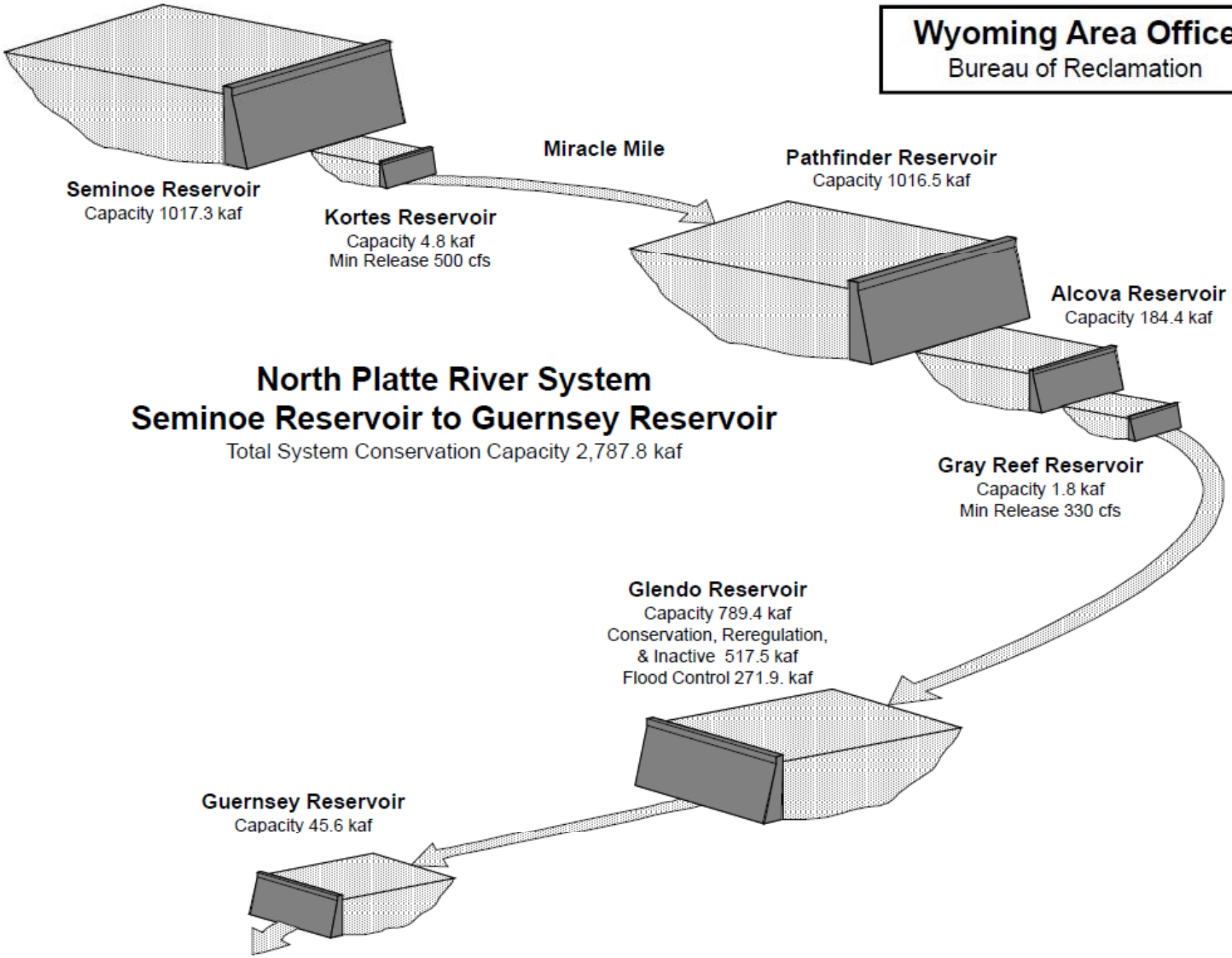
Boysen Reservoir



2011 Estimated April-July Inflow

- Minimum 224,000 acre-feet
- Probable 584,000 acre-feet

Wyoming Area Office
Bureau of Reclamation

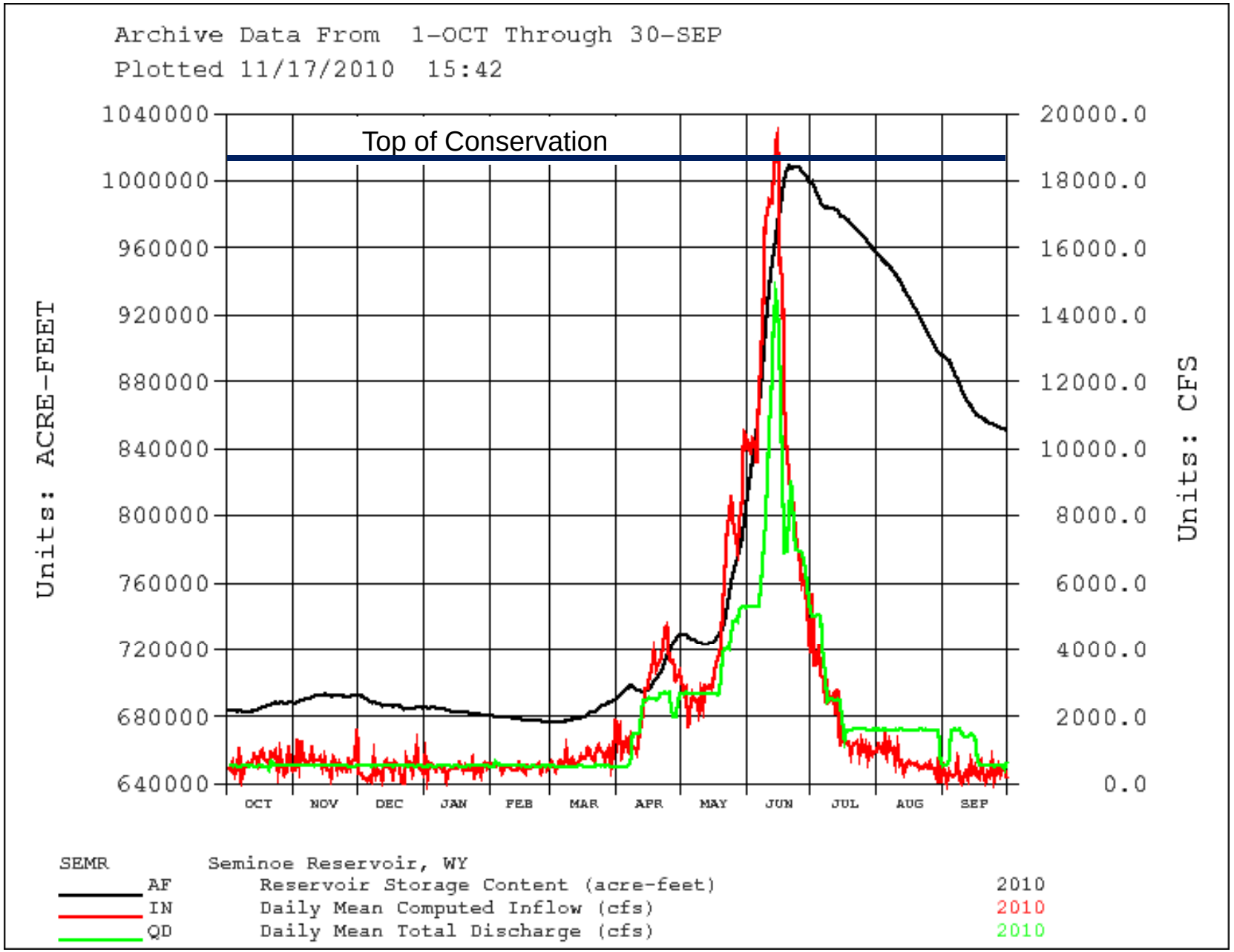


North Platte River System
Seminoe Reservoir to Guernsey Reservoir

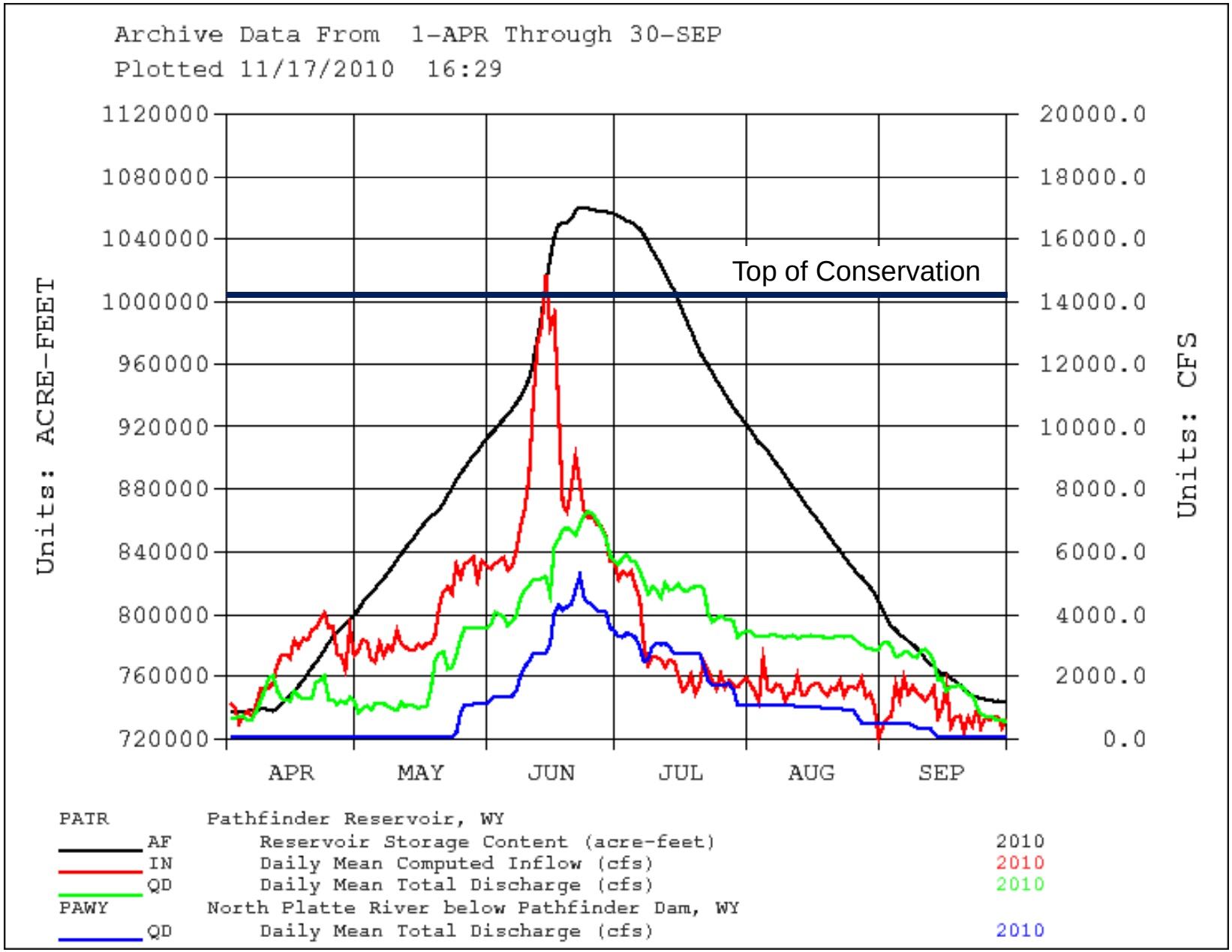
Total System Conservation Capacity 2,787.8 kaf

Pathfinder Spill –June 24, 2010

Seminoe Reservoir 2010 Operations



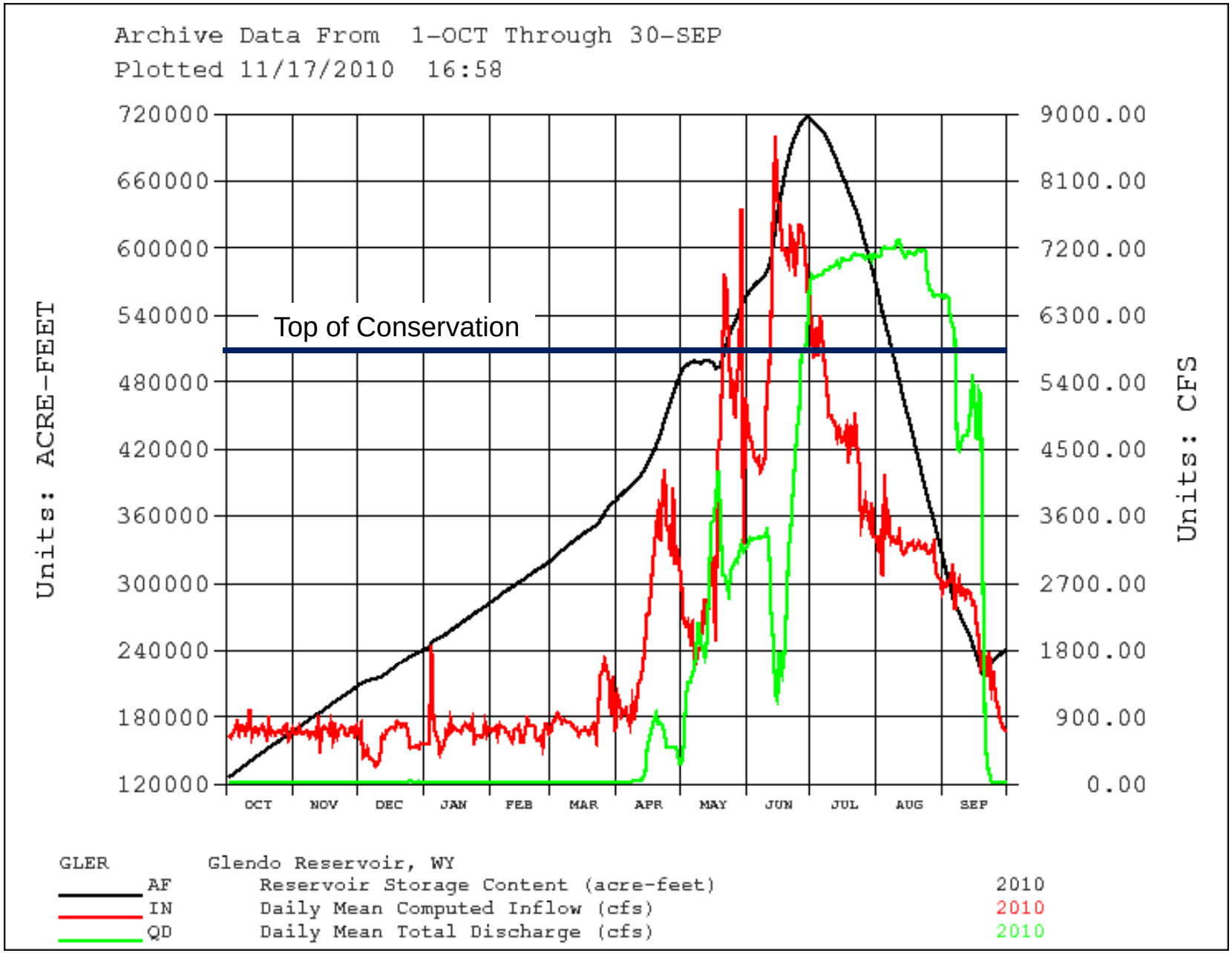
Pathfinder Reservoir Apr-Sep 2010 Operations



N. Platte River Casper (6/17) 6500 cfs

N. Platte River Casper (6/17) 6500 cfs

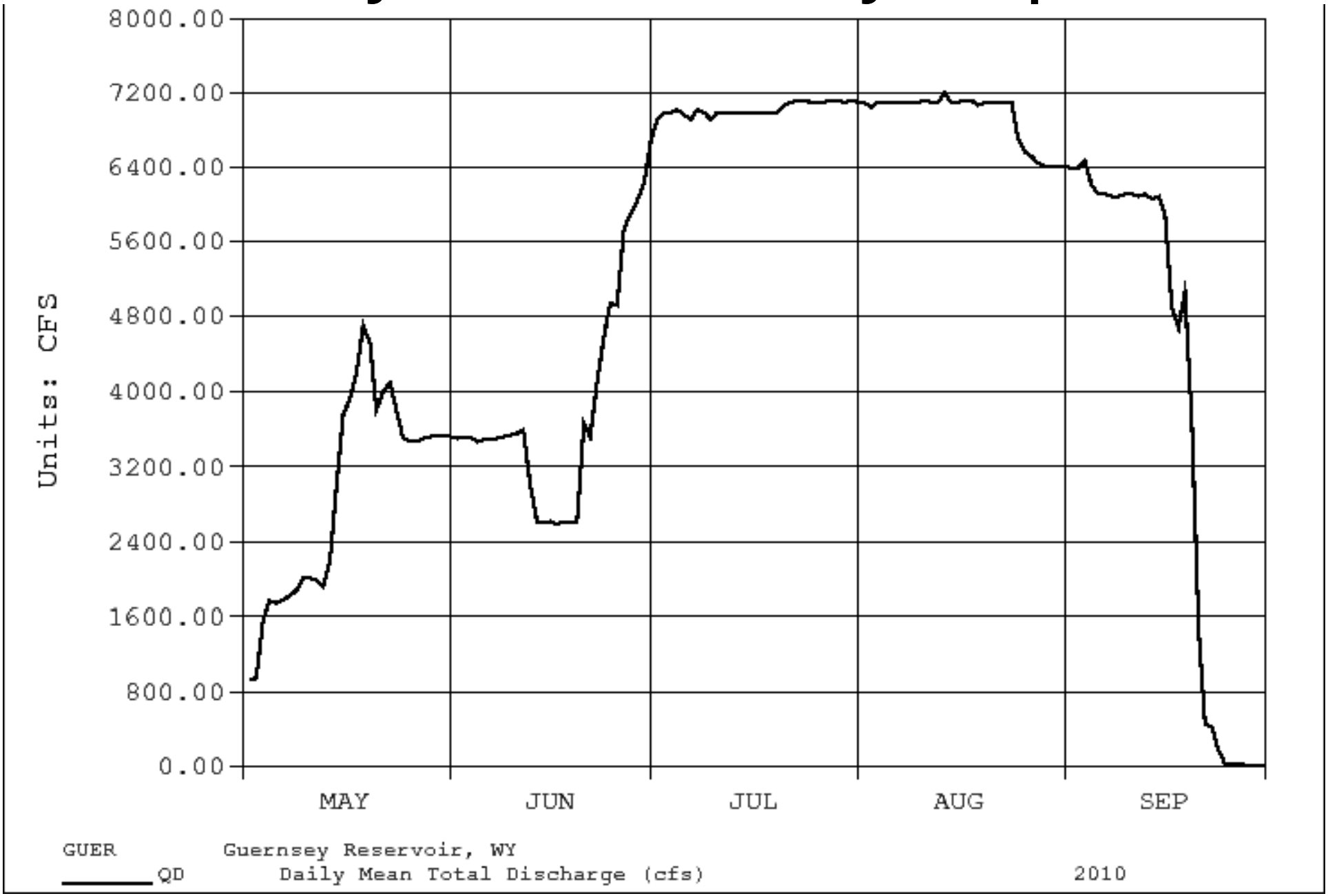
Glendo Reservoir Operations 2010



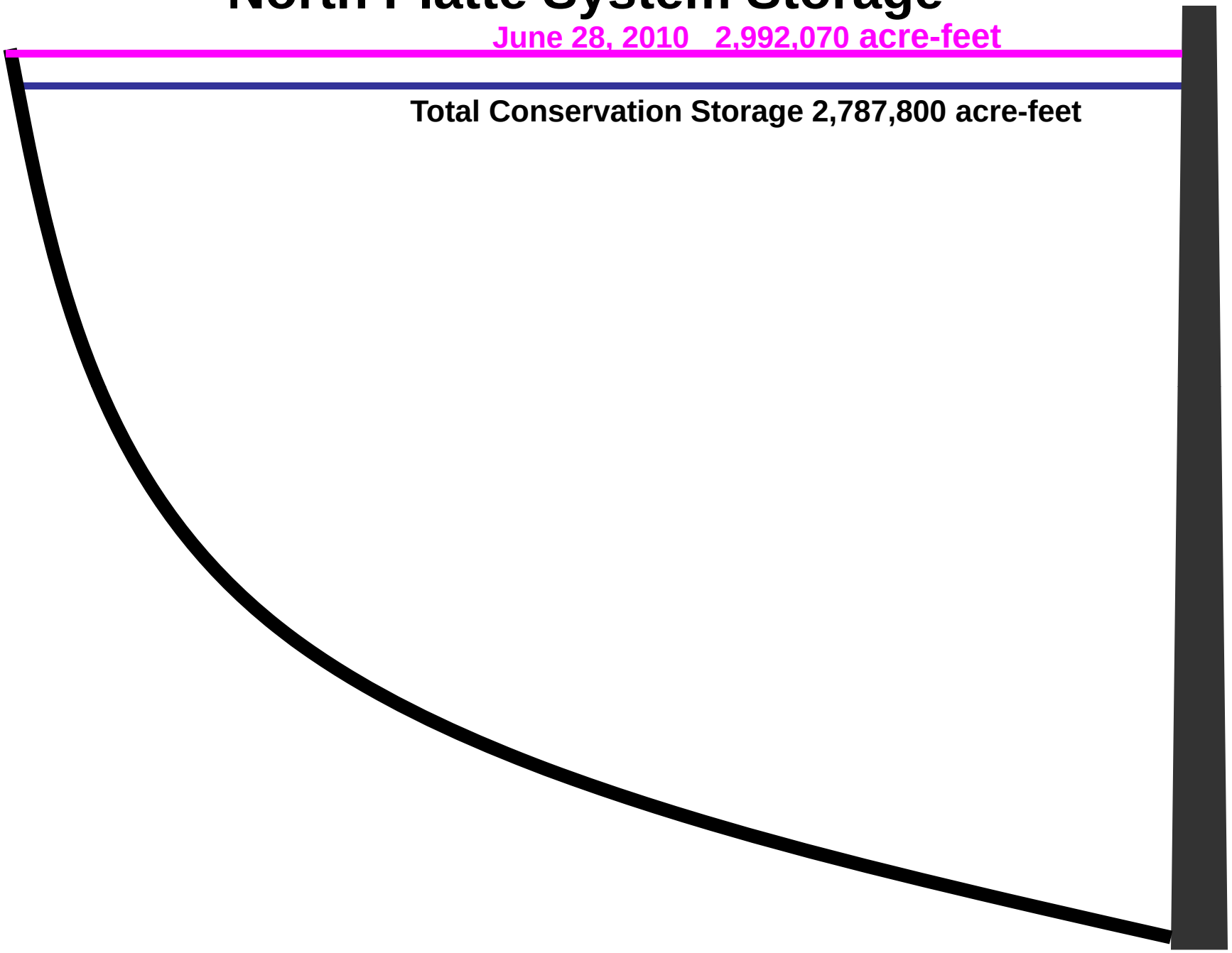
Glendo Reservoir (6/17) 4644.86 ft (654 kaf)

Glendo Reservoir (7/2) 4648.52 ft (712 kaf)

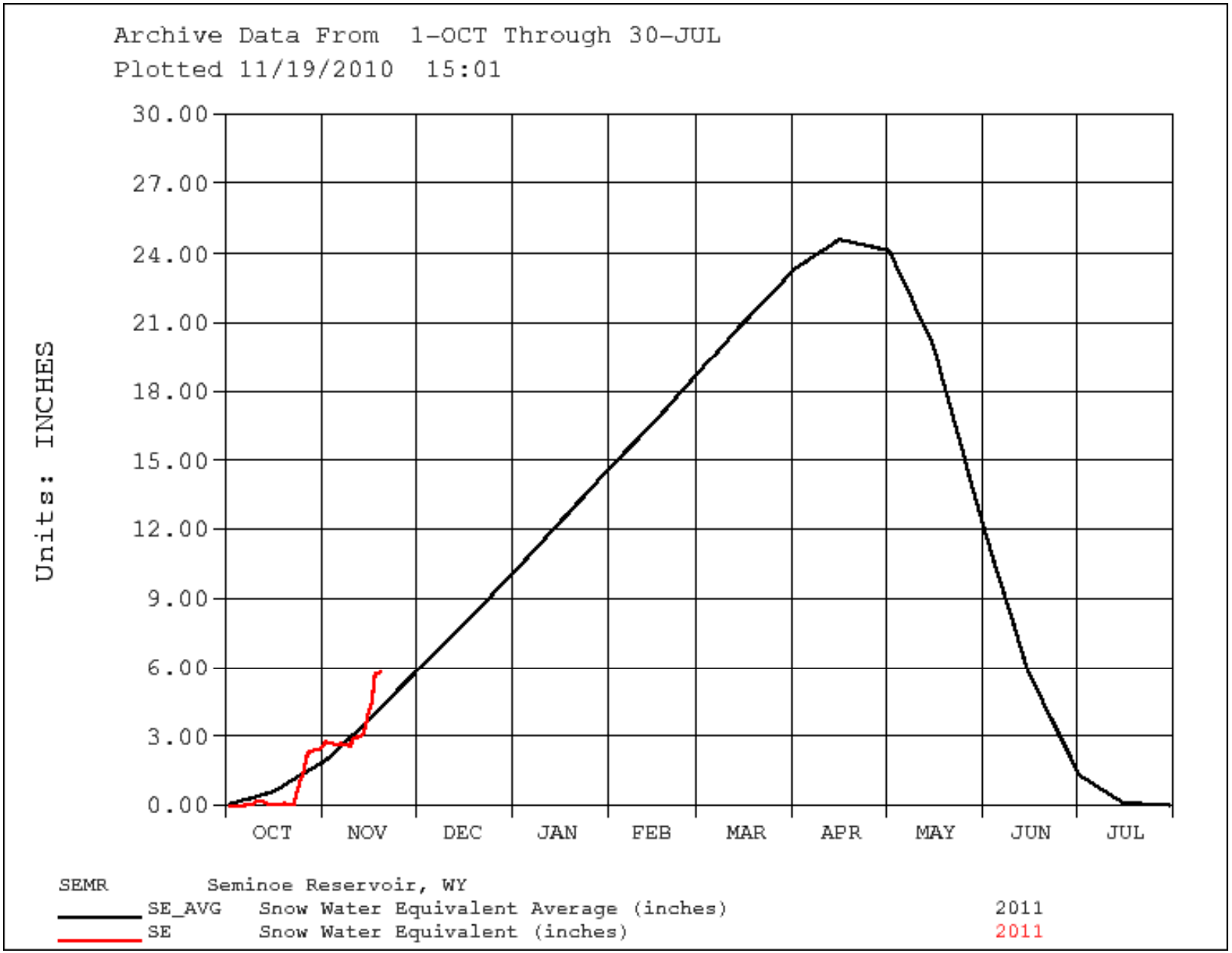
Guernsey Release May-Sep 2010



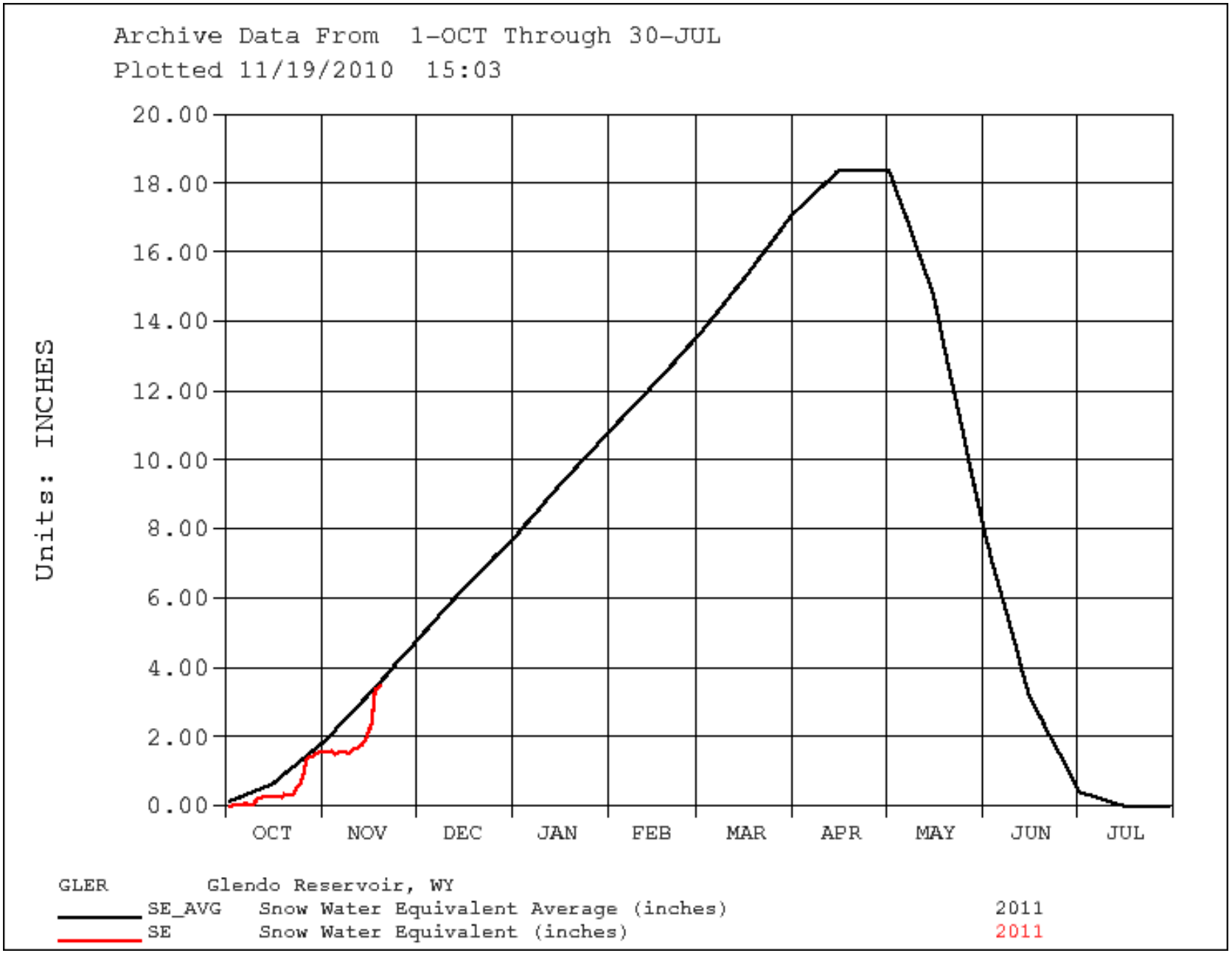
North Platte System Storage



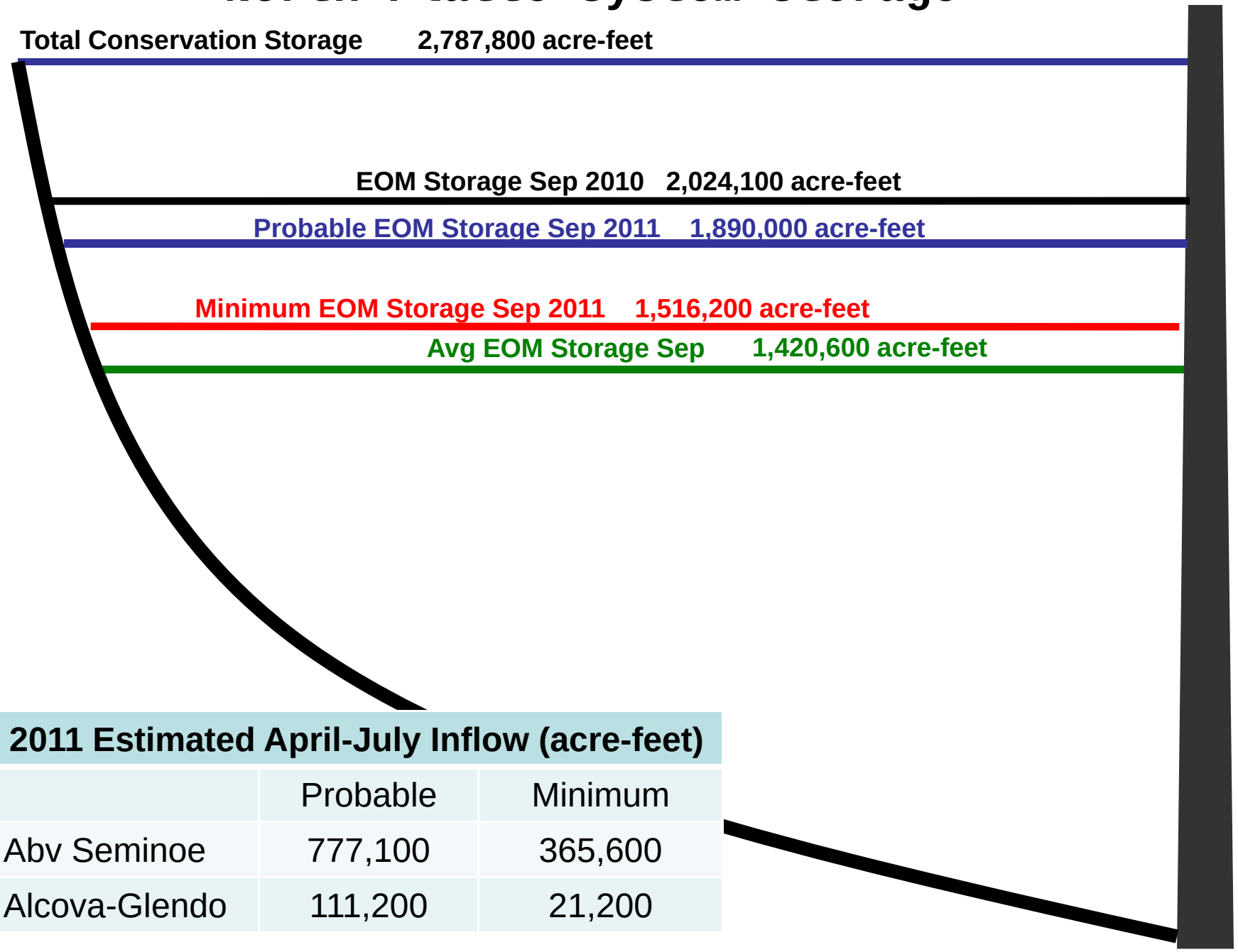
Basin above Seminoe Reservoir



Alcova to Glendo Reach

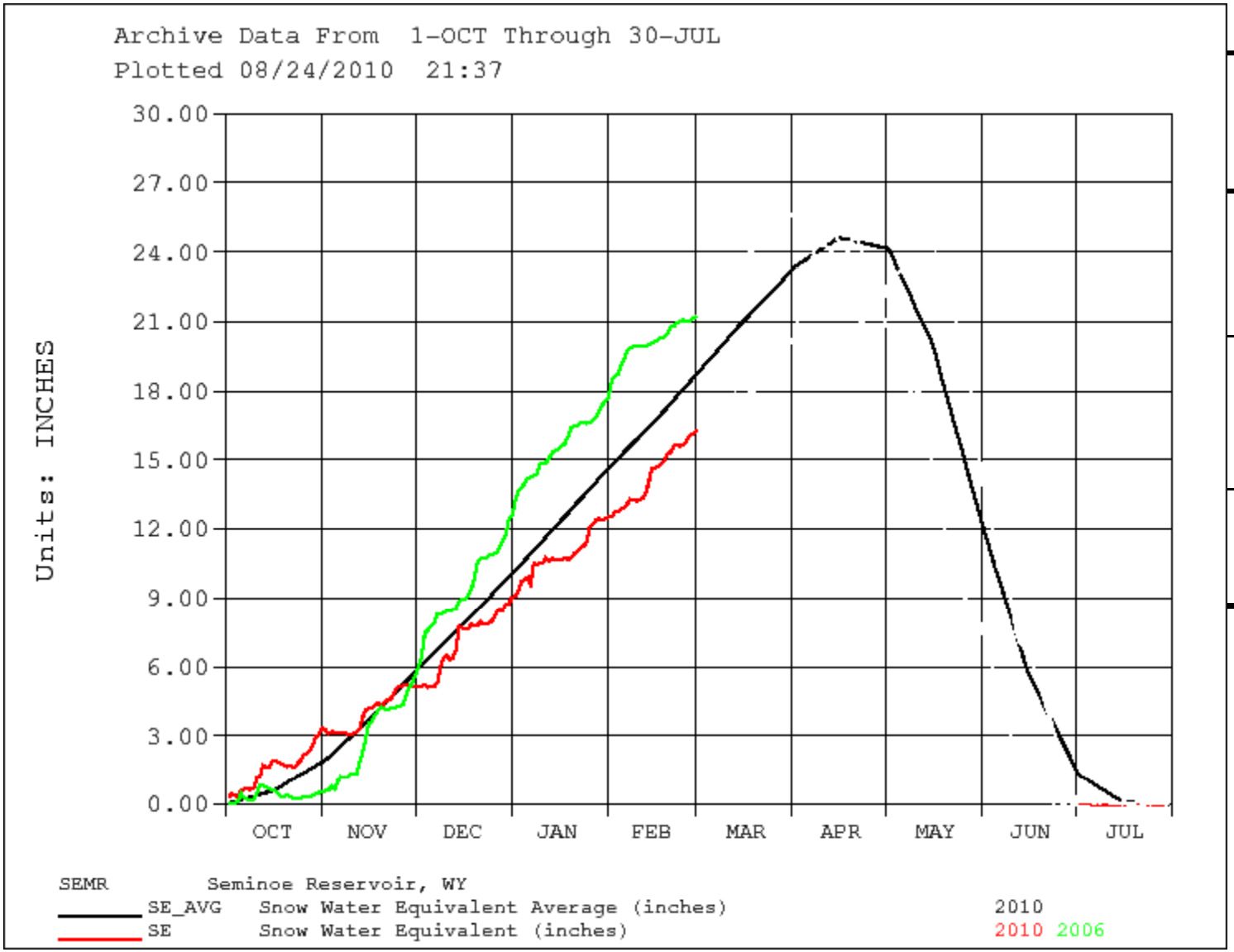


North Platte System Storage



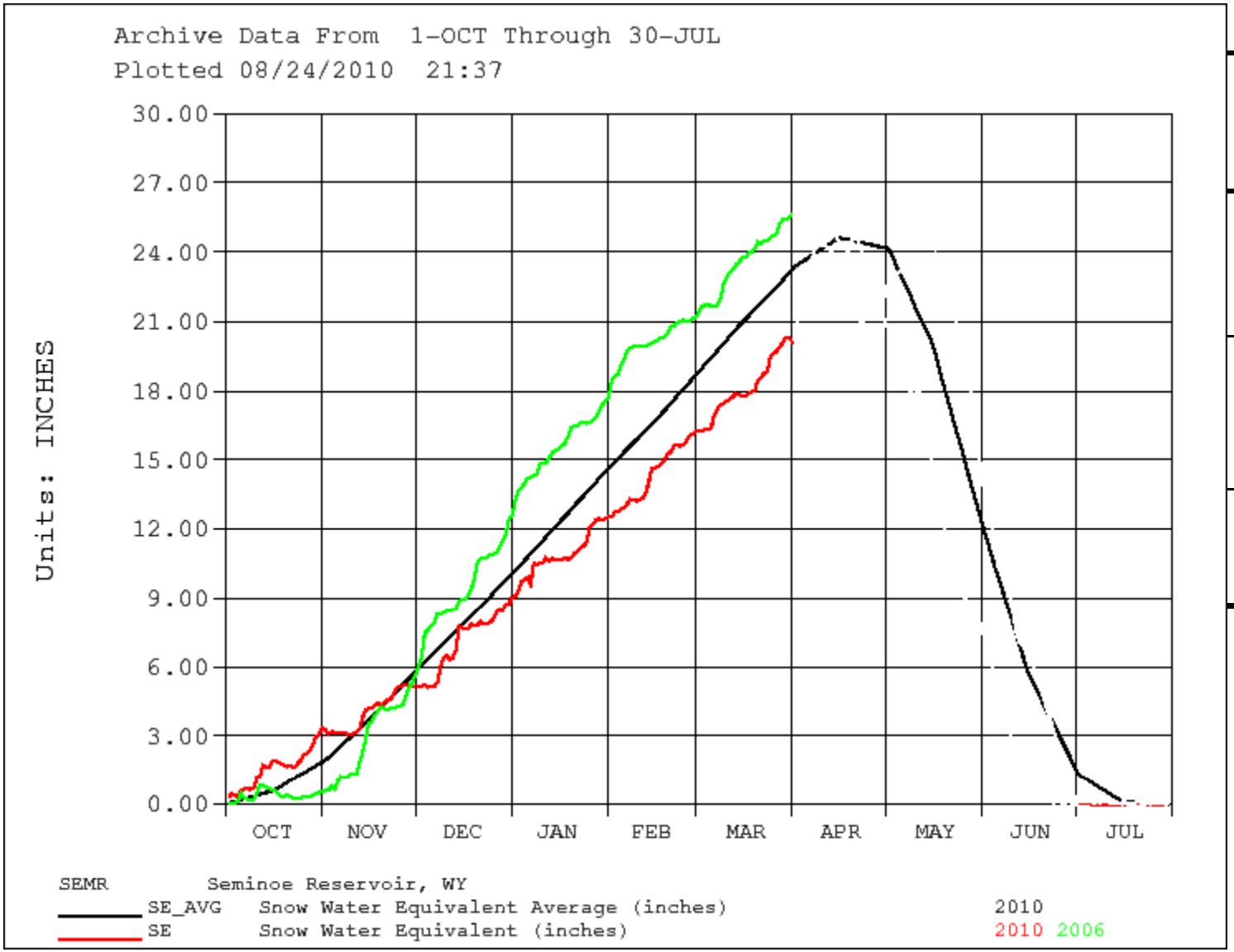
2011 Estimated April-July Inflow (acre-feet)		
	Probable	Minimum
Abv Seminoe	777,100	365,600
Alcova-Glendo	111,200	21,200

Basin above Seminoe Reservoir
March 1 - Snow Water Equivalent



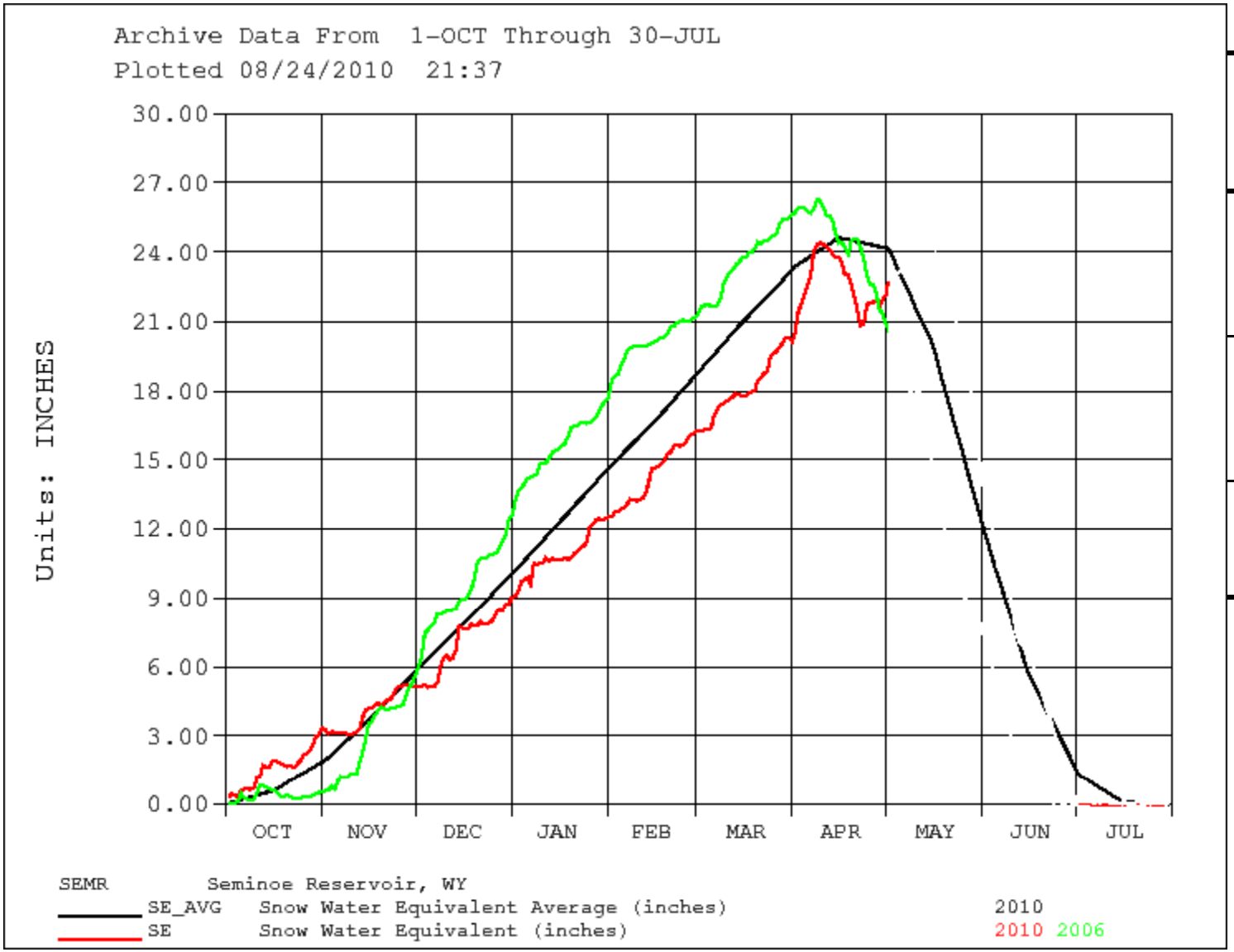
Water Year	April-July Inflow (acre-feet)
2006	875,000 Forecasted
2010	590,000 Forecasted March 1
Average 714,000	

Basin above Seminoe Reservoir
April 1 - Snow Water Equivalent



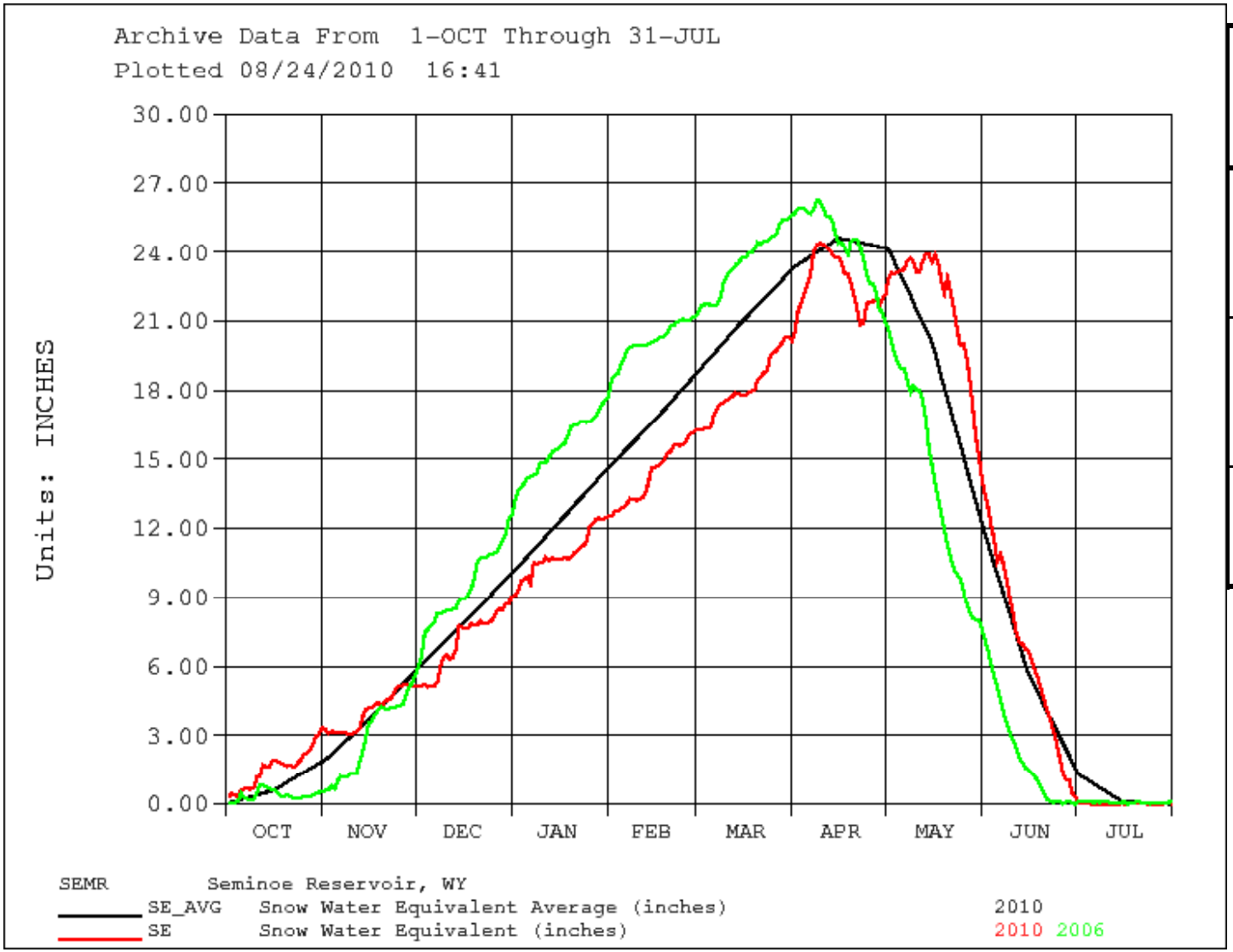
Water Year	April-July Inflow (acre-feet)
2006	875,000 Forecasted
2010	650,000 Forecasted April 1
Average 714,000	

Basin above Seminoe Reservoir
May 1 - Snow Water Equivalent



Water Year	April-July Inflow (acre-feet)
2006	570,000 Forecasted
2010	800,000 Forecasted
Average 714,000	

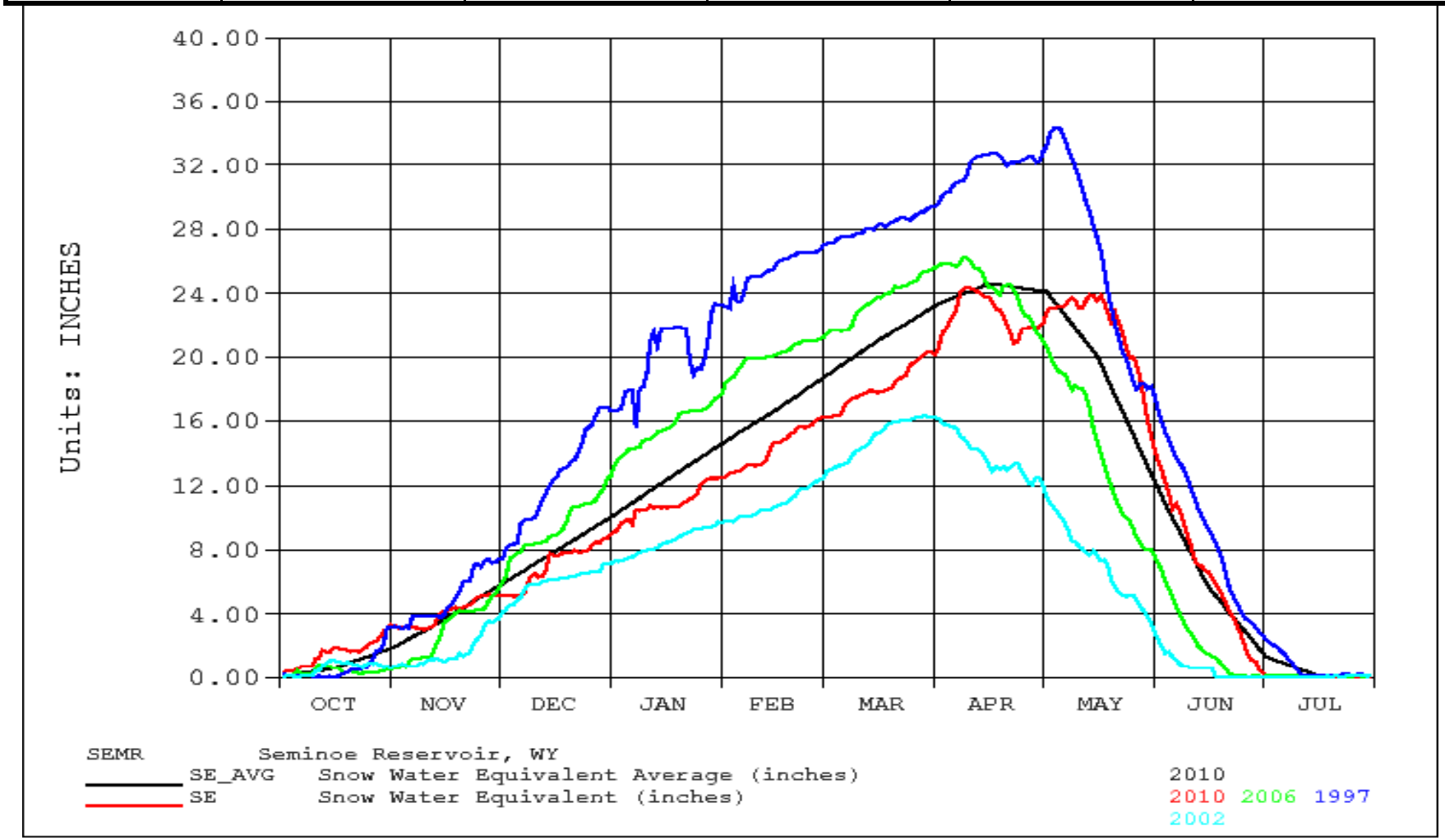
Basin above Seminoe Reservoir
Actual Snow Water Equivalent



Water Year	April-July Inflow (acre-feet)
2006	546,100
2010	1,241,900
Average 714,000	

Seminoe Reservoir April – July Forecasted Inflows (af)

Water Year	February	March	April	May	Actual Inflow
2002	350,000	410,000	300,000	250,000	118,000
1997	1,000,000	1,000,000	1,050,000	1,160,000	1,073,800
2006	950,000	875,000	875,000	570,000	546,100
2010	500,000	590,000	650,000	800,000	1,241,900



Pathfinder Spill – June 19, 2010