

**November 1, 2007**  
**WATER SUPPLY AND UTILIZATION REPORT**  
**NORTH PLATTE RIVER BASIN**  
**WYOMING AREA OFFICE**

**This report concerns the operation of Reclamation facilities in the North Platte River Basin.**

**Reclamation defines a water year as the time period of October 1 through September 30. Water year is abbreviated in this report as W. Yr.**

**Other organizations furnished information for the Water Supply and Utilization Report. Their cooperation is greatly appreciated.**

This report is available on the Internet and can be accessed by following these steps:

1. Log on to the Great Plains Home Page at: <http://www.usbr.gov/gp>
2. On left side of page Select [Water Operations](#).
3. Under Water Operations Select [Water Management Information](#).
4. Under Water Management Select [Water Supply Report](#).
5. Under North Platte River Basin, select [Current Month or reports from the previous 12 months](#).

## NORTH PLATTE RIVER BASIN INFLOW

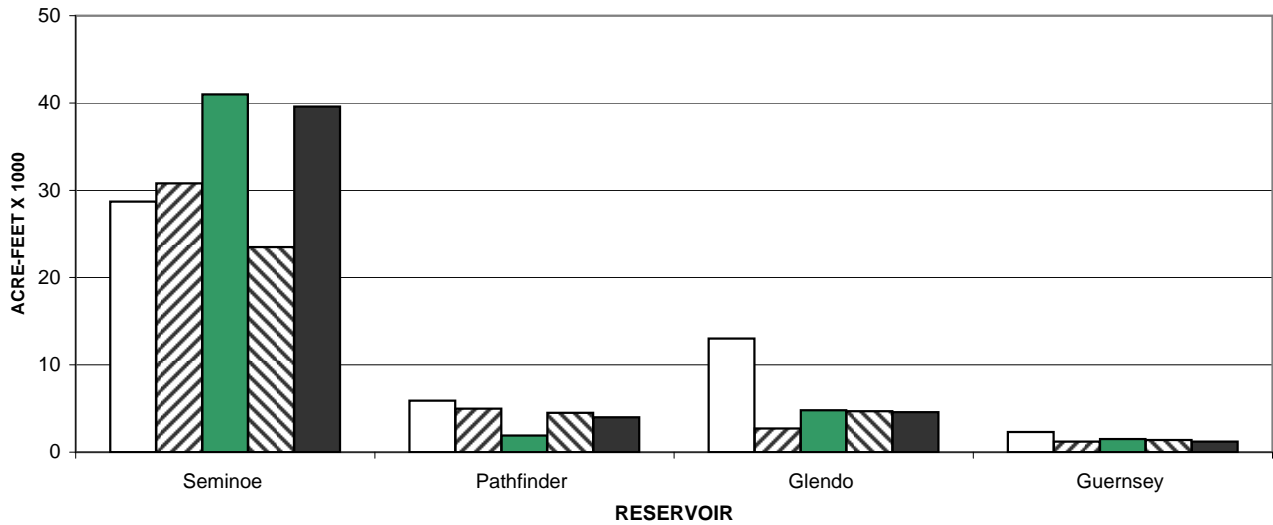
The October inflows were below average for all reservoirs except Seminoe Reservoir in the North Platte Basin.

(1000 acre-feet)

Reservoir	October Inflow			October Historical Inflow			Accumulated Inflow (October)		
	W. Yr. 2008	30 Yr. Avg. <sup>5</sup>	% of Avg.	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005	W. Yr. 2008	30 Yr. Avg. <sup>5</sup>	% of Avg.
<b>Seminoe</b>	<b>30.8</b>	<b>28.7</b>	<b>107</b>	<b>41.0</b>	<b>23.5</b>	<b>39.6</b>	<b>30.8</b>	<b>28.7</b>	<b>107</b>
Pathfinder <sup>1,2</sup>	5.0	5.9	85	1.9	4.5	4.0	5.0	5.9	85
Glendo <sup>3</sup>	2.7	13.0	21	4.8	4.7	4.6	2.7	13.0	21
Guernsey <sup>4</sup>	1.2	2.3	52	1.5	1.4	1.2	1.2	2.3	52

- 1 It is assumed that there is no gain between Seminoe and Kortes Dams.
- 2 River gain between Kortes and Pathfinder Dams.
- 3 River gain between Pathfinder and Glendo Dams.
- 4 River gain between Glendo and Guernsey Dams.
- 5 30 year average. (1978-2007)

### NORTH PLATTE RIVER BASIN RESERVOIR INFLOW October



## NORTH PLATTE RIVER BASIN OUTFLOW

The October outflows for the North Platte Reservoirs were below average.

(1000 acre-feet)

Reservoir	October Outflow			October Historical Outflow			Accumulated Outflow (October)		
	W. Yr. 2008	30 Yr. Avg. <sup>2</sup>	% of Avg.	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005	W. Yr. 2008	30 Yr. Avg. <sup>2</sup>	% of Avg.
Seminoe	33.3	47.7	70	32.6	32.1	32	33.3	47.7	70
Kortes	33.3	47.7	70	32.6	32.1	32.0	33.3	47.7	70
Pathfinder	19.0	30.1	63	10.2	10.6	9.0	19.0	30.1	63
Alcova	39.6	53.3	74	30.8	31.0	30.7	39.6	53.3	74
Gray Reef	39.5	53.2	74	30.7	30.8	30.7	39.5	53.2	74
Glendo <sup>1</sup>	1.7	4.1	41	1.4	1.6	1.6	1.7	4.1	41
Guernsey	0.2	9.4	2	0.1	0.1	0.2	0.2	9.4	2

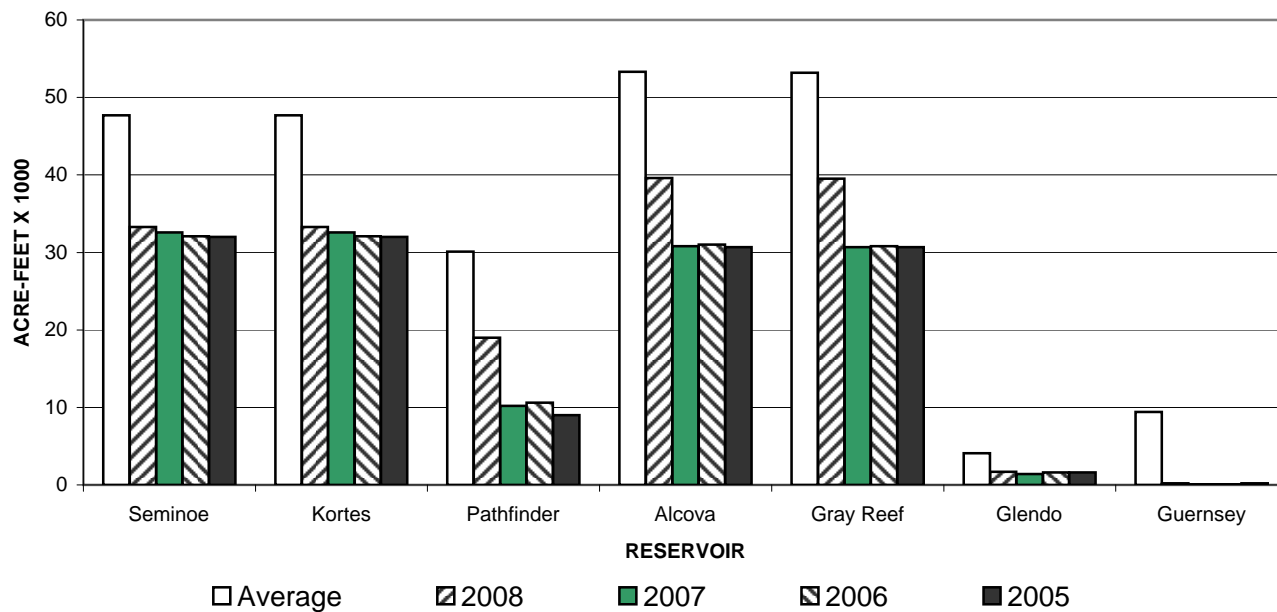
1 In 1993 an outlet was constructed at Glendo Dam which is used to provide a flow of approximately 25 cubic feet per second.

2 30 year average (1978-2007).

## NORTH PLATTE RIVER BASIN

### RESERVOIR OUTFLOW

October



## NORTH PLATTE RIVER BASIN RESERVOIR STORAGE

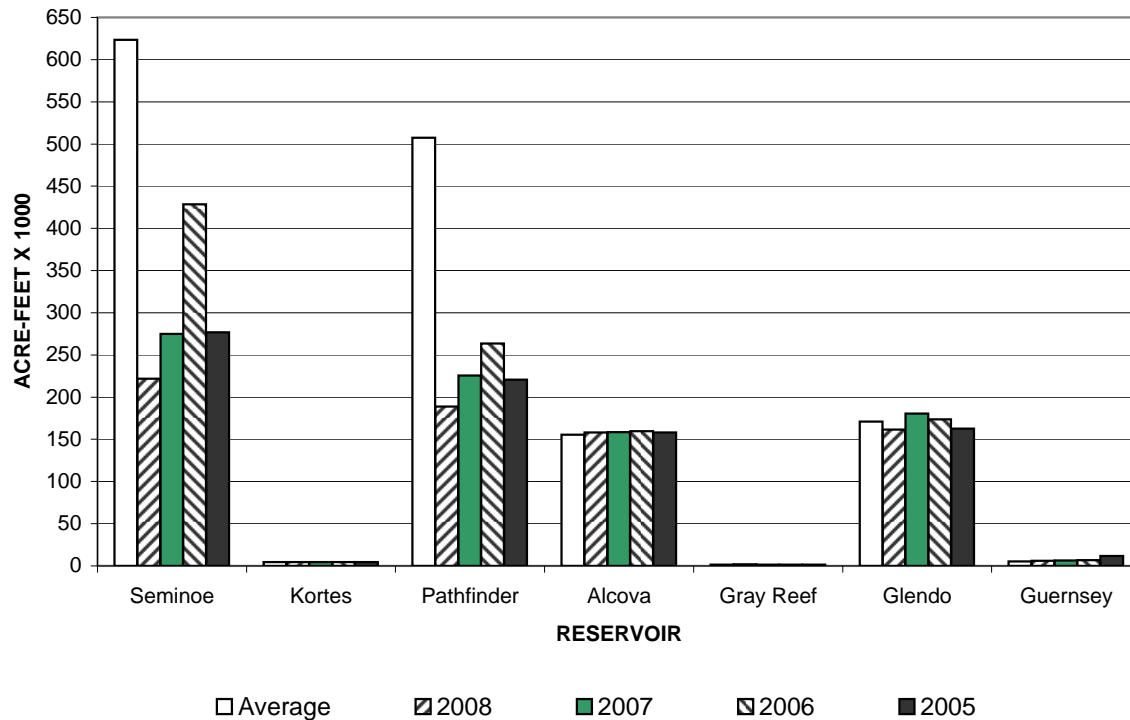
The October storage for the major reservoirs; Seminoe and Pathfinder was below average.  
The Pathfinder and Seminoe Reservoir storages were the lowest October storage in the last 30 years.

(1000 acre-feet)

Reservoir	Total Storage End of October			End of October Historical Storage			Total Conservation Storage Capacity	Percent of Capacity
	W. Yr. 2008	30 Yr. Avg. <sup>1</sup>	% of Avg.	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005		
Seminoe	221.9	623.5	36	274.8	428.6	277.0	1017.3	22
Kortes	4.7	4.6	102	4.7	4.7	4.7	4.7	100
Pathfinder	188.9	507.5	37	225.7	263.6	220.6	1016.5	19
Alcova	158.3	155.4	102	158.7	159.5	158.3	184.4	86
Gray Reef	1.8	1.4	129	1.6	1.6	1.5	1.8	100
Glendo	161.7	171.1	95	180.6	173.7	162.6	517.5	31
Guernsey	6.2	5.3	117	6.5	7.0	11.7	45.6	14
<b>Total</b>	<b>743.5</b>	<b>1468.8</b>	<b>51</b>	<b>852.6</b>	<b>1038.7</b>	<b>836.4</b>	<b>2787.8</b>	<b>27</b>

<sup>1</sup> Average is based on the 1978-2007 period.

### NORTH PLATTE RIVER BASIN RESERVOIR STORAGE End of October



## NORTH PLATTE RIVER BASIN RESERVOIR STORAGE OWNERSHIP

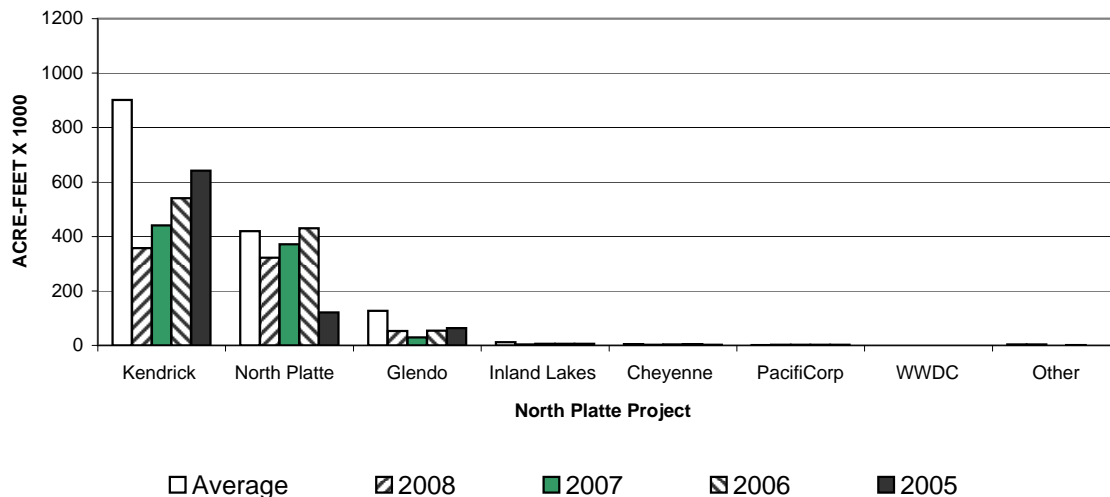
Kendrick ownership was the lowest for the end of October in the last 30 years.  
 Glendo ownership at the end of October was the third lowest in the last 30 years.

(1000 acre-feet)

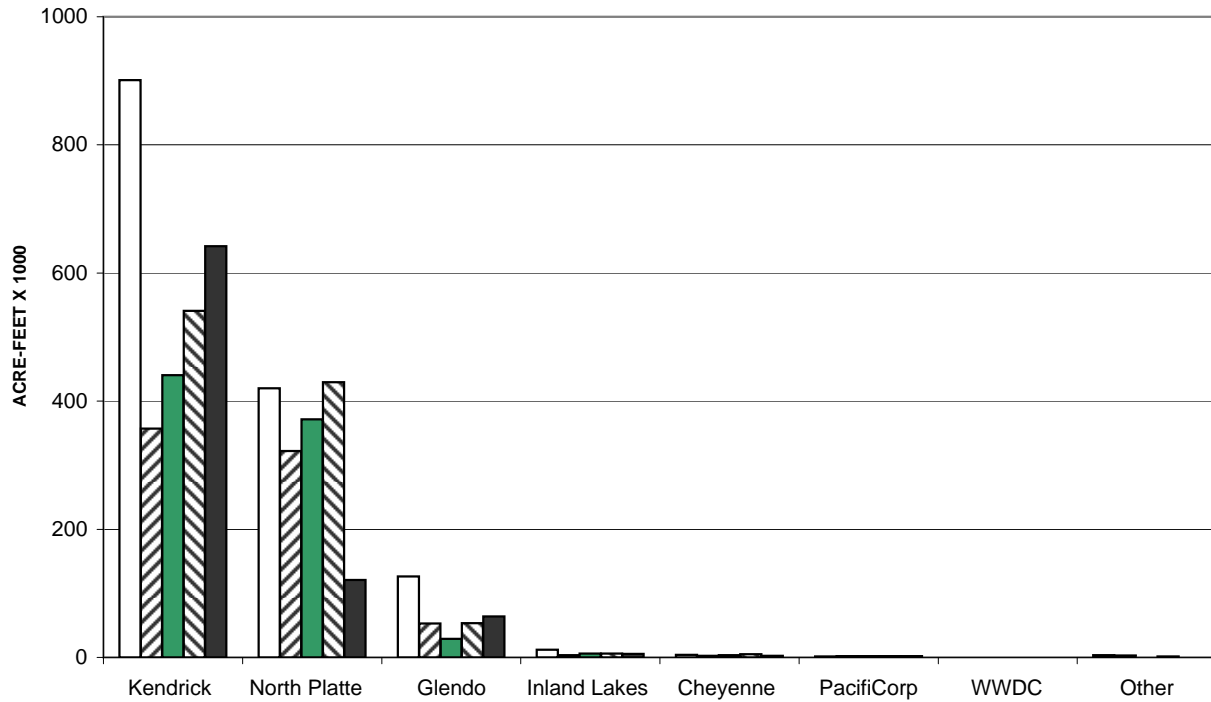
Ownership	Ownership of water End of October			End of October Historical Ownership			Total Storage Capacity	Percent of Capacity
	W. Yr. 2008	30 Yr. Avg. <sup>5</sup>	% of Avg.	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005		
Kendrick	357.0	901.3	40	440.6	540.9	642.0	1201.7	30
North Platte <sup>1</sup>	322.4	420.1	77	371.6	429.7	120.7	1062.1	30
Glendo	52.8	126.5	42	29.0	53.6	63.7	183.2	29
Inland Lakes <sup>2</sup>	3.7	12.1	31	6.1	6.0	5.6	46.0	8
Cheyenne <sup>3</sup>	2.5	4.2 <sup>6</sup>	60	3.3	4.9	2.5	10.0	25
PacifiCorp <sup>4</sup>	2.0	1.7	118	2.0	2.0	2.0	2.0	100
WWDC <sup>8</sup>	0.0	N/A	N/A	0.0	0.0	0.0	N/A	N/A
Other <sup>7</sup>	3.1	3.4	91	0.0	1.7	0.0	N/A	N/A

- 1 This includes North Platte Guernsey and North Platte Pathfinder.
- 2 Water stored temporarily in mainstem facilities for later transfer to the Inland Lakes. This table does not reflect that water currently stored in the Inland Lakes.
- 3 The City of Cheyenne has a storage contract to store water in Seminoe Reservoir by exchange of Upper North Platte Basin water through a system of trans-basin diversions.
- 4 Pacific Power has a storage contract to store water in Glendo Reservoir for Dave Johnston Powerplant.
- 5 Average is based on the 1978-2007 period.
- 6 Average is based on the 1982-2007 period.
- 7 Water which is captured in the re-regulation space of Glendo in addition to storage rights, operational water account, and replacement of evaporation losses is labeled as "Re-regulation of Natural Flow" per Wyoming Board of Control Order Docket Number I-2000-3-8 in water Division Number One. In accordance with 2007 Natural Flow and Ownership Procedures, the operational account may contain up to 15,000 acre-feet. On October 31, 2007, the Operational account contained 3,132 Acre-feet and Re-Regulation space contained 0 Acre-feet.
- 8 Wyoming Water Development Commission contracted a portion of Glendo Reservoir re-regulation space for storage of non-project water in 2007.

### Ownership of Water End of October



**NORTH PLATTE RIVER BASIN  
OWNERSHIP OF WATER  
End of October**



**INLAND LAKES RESERVOIR STORAGE**

( acre-feet)

Reservoir	Total Storage End of October	30 Year Average <sup>5</sup>	Percent of Average	Total Storage Capacity
Lake Alice	294	1,100	27	11,034 <sup>1</sup>
Little Lake Alice	237	146 <sup>6</sup>	162	1,166 <sup>2</sup>
Lake Winters Creek	607	709 <sup>6</sup>	86	1,746 <sup>3</sup>
Lake Minatare	17,400	29,300	59	58,795 <sup>4</sup>

1 At Elevation 4182.0

2 At Elevation 4139.0

3 At Elevation 4125.0

4 At Elevation 4125.0

5 30 year average. (1978-2007)

6 17 year average. (1991-2007)

**NORTH PLATTE RIVER BASIN GROSS GENERATION**

Power generation was below average for all powerplants in the North Platte Basin.

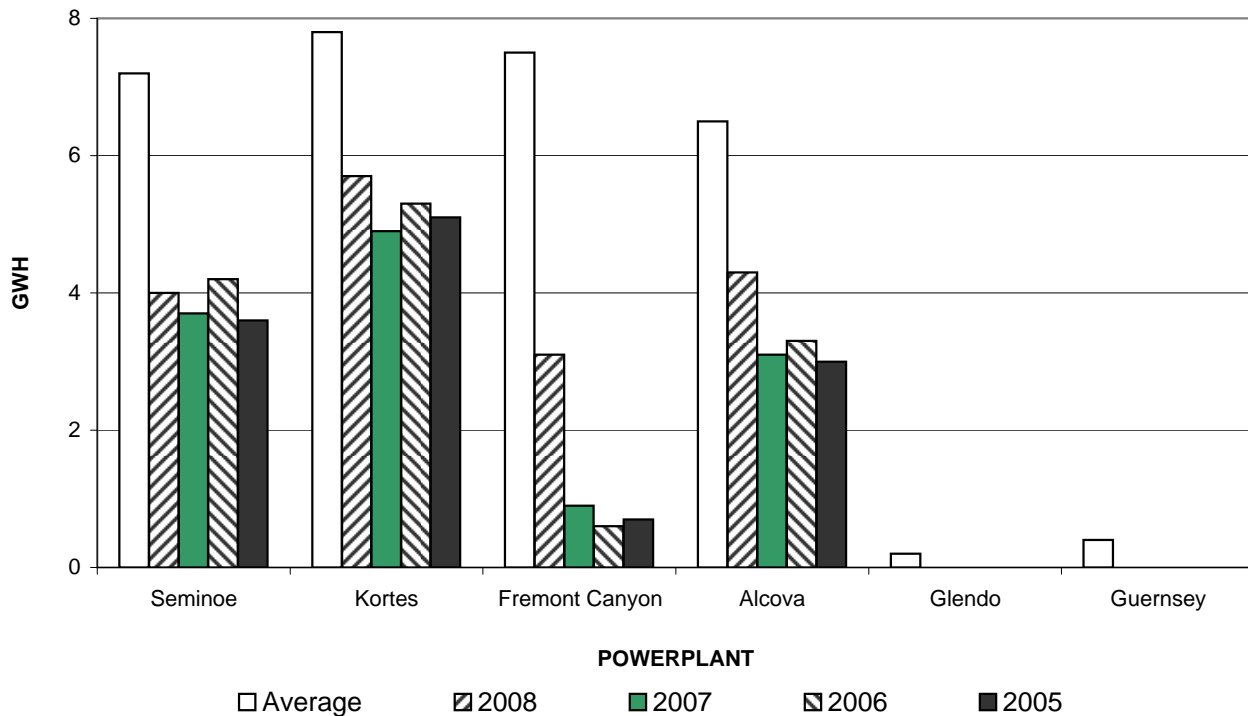
(Energy in giga-watt hours)

Powerplant	October Gross Generation			October Historical Generation			Accumulated Gross Gen. (October)		
	W. Yr. 2008	30 Yr. Avg. <sup>2</sup>	% of Avg.	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005	W. Yr. 2007	30 Yr. Avg. <sup>2</sup>	% of Avg.
Seminole	4.0	7.2	56	3.7	4.2	3.6	4.0	7.2	56
Kortes	5.7	7.8	73	4.9	5.3	5.1	5.7	7.8	73
Fremont Canyon <sup>1</sup>	3.1	7.5	41	0.9	0.6	0.7	3.1	7.5	41
Alcova	4.3	6.5	66	3.1	3.3	3.0	4.3	6.5	66
Glendo	0.0	0.2	0	0.0	0.0	0.0	0.0	0.2	0
Guernsey	0.0	0.4	0	0.0	0.0	0.0	0.0	0.4	0

1 The powerplant for Pathfinder Dam is Fremont Canyon.

2 Average is based on the 1978-2007 period.

**NORTH PLATTE RIVER BASIN  
GROSS GENERATION  
October**



**NORTH PLATTE ESTIMATED APRIL- JULY RUNOFF**

(1000 acre-feet)

Basin	July 1, 2007 Estimated April-July Runoff with actual April and May			30 Yr. April-July Runoff Avg. <sup>2</sup>	Most Probable % of Avg.	Comparative Actual April - July Runoff			
	Reasonable Maximum <sup>1</sup>	Expected	Reasonable Minimum <sup>1</sup>			W. Yr. 2006	W. Yr. 2005	W. Yr. 2004	W. Yr. 2003
Seminole Reservoir	495	395 <sup>3</sup>	345	700	56	546	733	277	530
Sweetwater River Above Pathfinder Reservoir	30	25 <sup>4</sup>	22	62	40	32	66	34	17
Alcova to Glendo	110	100 <sup>5</sup>	98.5	121	83	45	39	34	93

<sup>1</sup> The probability is estimated to be 9 chances in 10 that the actual volume will fall between the reasonable minimum and reasonable maximum.

<sup>2</sup> Average is based on the 1977-2006 period.

<sup>3</sup> The actual April-June inflow into Seminole Reservoir was 273,000 AF.

<sup>4</sup> The actual April-June inflow from Sweetwater River was 20,000 AF.

<sup>5</sup> The actual April-June gain between Alcova and Glendo Reservoirs was 96,000 AF.