

May 1, 2009
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

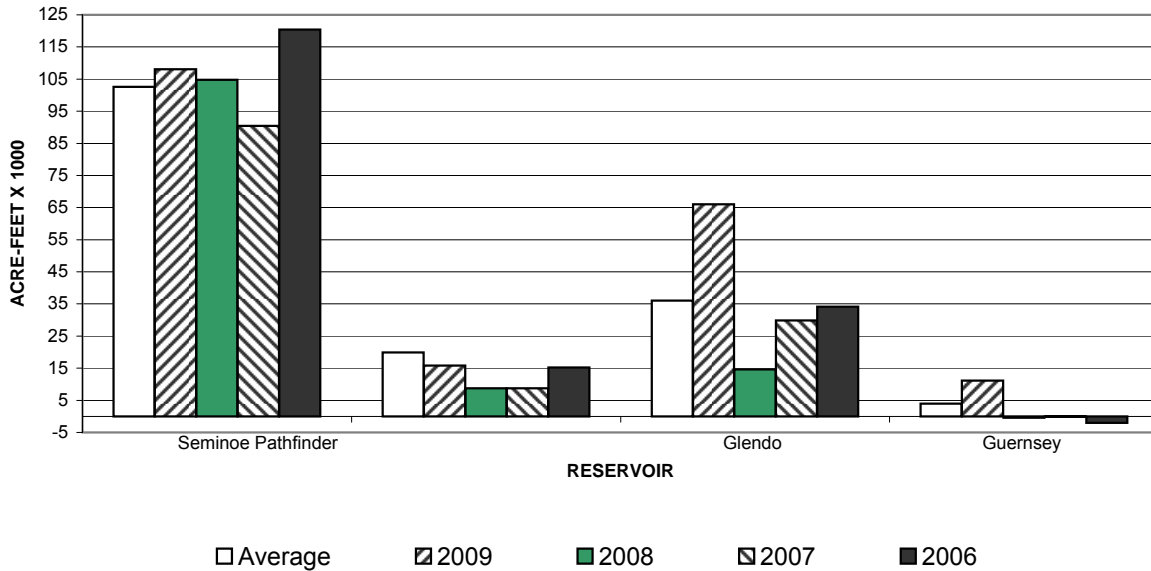
The April inflow was above average for Seminoe, Glendo, and Guernsey Reservoirs.

(1000 acre-feet)

Reservoir	April Inflow			April Historical Inflow			Accumulated Inflow (October - April)		
	W. Yr. 2009	30 Yr. Avg. ⁵	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006	W. Yr. 2009	30 Yr. Avg. ⁵	% of Avg.
Seminoe	108.1	102.6	105	104.8	90.4	120.4	306.5	297.0	103
Pathfinder ^{1,2}	15.8	19.9	79	8.7	8.7	15.2	61.6	58.6	105
Glendo ³	66.0	36.0	183	14.6	29.9	34.1	96.2	108.2	89
Guernsey ⁴	11.1	4.0	278	-0.4	-0.1	-2.0	19.1	13.8	138

- 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. (1979-2008)

NORTH PLATTE RIVER BASIN RESERVOIR INFLOW April



NORTH PLATTE RIVER BASIN OUTFLOW

The April outflow was below average for Glendo and Guernsey Reservoirs.

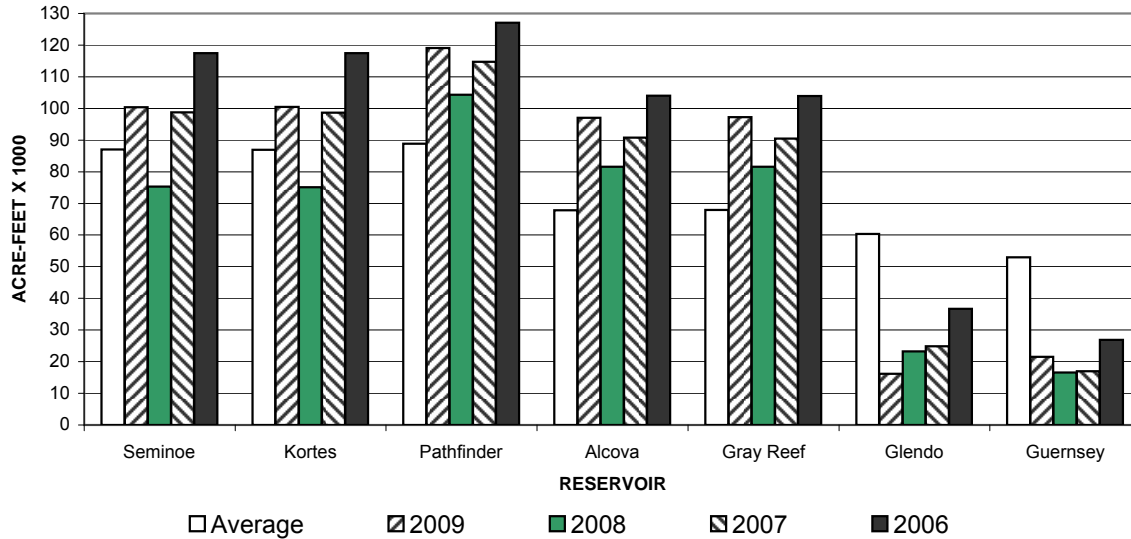
(1000 acre-feet)

Reservoir	April Outflow			April Historical Outflow			Accumulated Outflow (October - April)		
	W. Yr. 2009	30 Yr. Avg. ²	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006	W. Yr. 2009	30 Yr. Avg. ²	% of Avg.
Seminole	100.4	87.0	115	75.3	98.8	117.5	294.3	441.3	67
Kortes	100.5	86.9	116	75.1	98.7	117.5	294.4	441.1	67
Pathfinder	119.1	88.9	134	104.3	114.7	127.1	294.1	336.8	87
Alcova	97.0	67.8	143	81.6	90.8	104.0	292.6	334.5	87
Gray Reef	97.2	67.9	143	81.6	90.5	103.9	292.6	334.5	87
Glendo ¹	16.2	60.4	27	23.2	24.9	36.7	26.2	95.5	27
Guernsey	21.5	53.0	41	16.6	17.0	26.9	24.1	85.2	28

¹ In 1993 an outlet was constructed at Glendo Dam which is used to provide a flow of approximately 25 cubic feet per second, 15 year average (1994-2008).

² 30 year average (1979-2008).

NORTH PLATTE RIVER BASIN RESERVOIR OUTFLOW April



NORTH PLATTE RIVER BASIN RESERVOIR STORAGE

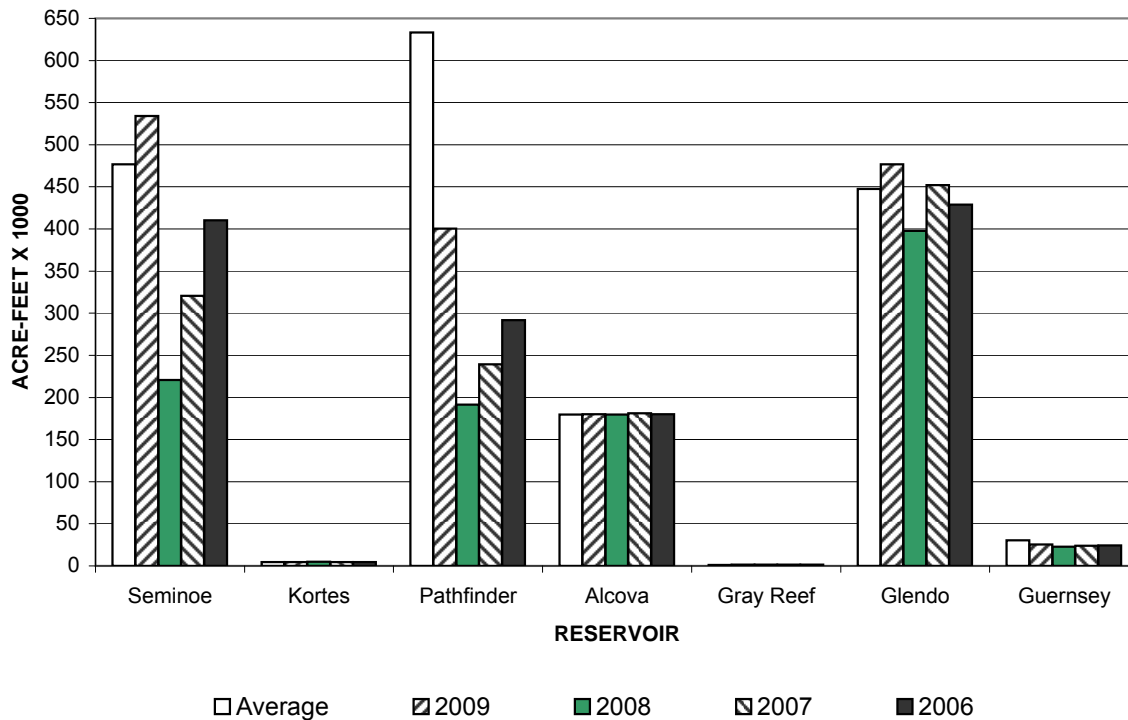
The April storage for Seminoe and Glendo reservoirs was above average.

(1000 acre-feet)

Reservoir	Total Storage End of April			End of April Historical Storage			Total Conservation Storage Capacity	Percent of Capacity
	W. Yr. 2009	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006		
	Seminoe	534.2	476.8	112	220.6	320.6		
Kortes	4.7	4.6	102	4.9	4.7	4.7	4.7	100
Pathfinder	400.3	633.4	63	191.3	239.5	291.9	1016.5	39
Alcova	180.2	179.7	100	179.7	181.1	179.9	184.4	98
Gray Reef	1.5	1.3	115	1.6	1.7	1.5	1.8	83
Glendo	476.6	447.5	107	397.9	452.2	428.8	517.5	92
Guernsey	25.5	30.4	84	22.7	24.0	24.3	45.6	56
Total	1623.0	1773.7	92	1018.7	1223.8	1341.5	2787.8	58

¹ Average is based on the 1979-2008 period.

NORTH PLATTE RIVER BASIN RESERVOIR STORAGE End of April



NORTH PLATTE RIVER BASIN RESERVOIR STORAGE OWNERSHIP

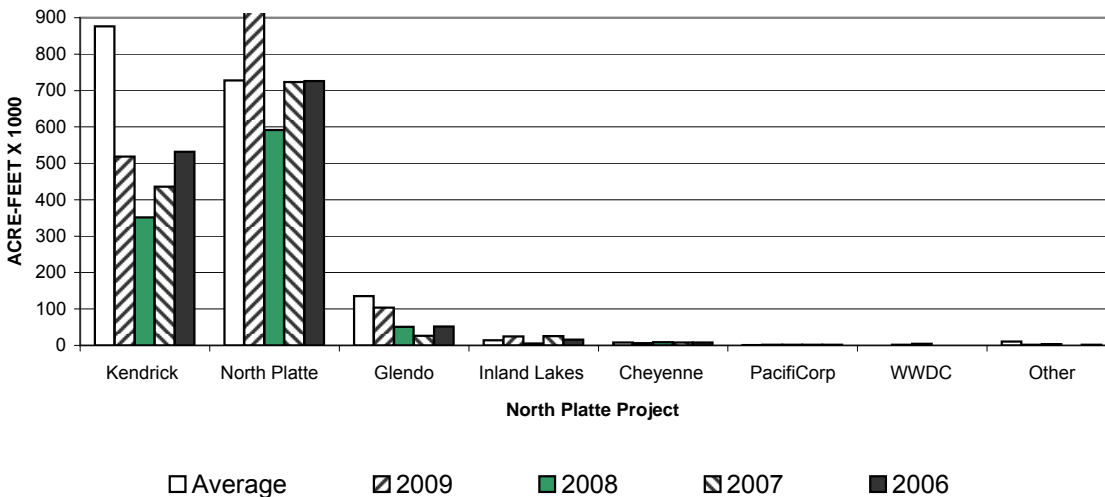
North Platte and Inland Lakes Ownerships was above average for April.
Kendrick Ownership at the end of April was the 5th lowest in the last 30 years.

(1000 acre-feet)

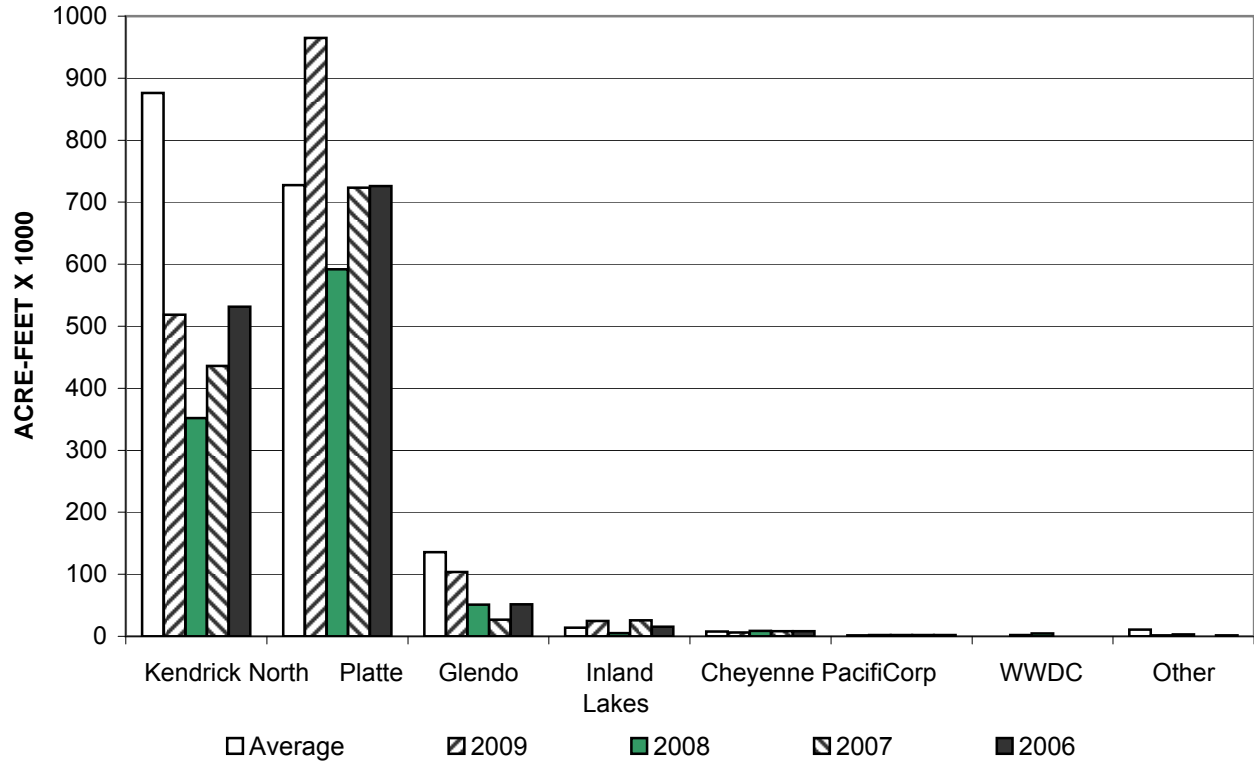
Ownership	Ownership of water End of April			End of April Historical Ownership			Total Storage Capacity	Percent of Capacity
	W. Yr. 2009	30 Yr. Avg. ⁵	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006		
Kendrick	518.5	876.3	59	352.0	436.2	531.4	1201.7	43
North Platte ¹	964.7	727.3	133	591.7	723.2	725.9	1062.1	91
Glendo	103.6	135.7	76	51.1	26.7	51.6	183.2	57
Inland Lakes ²	24.6	13.9	177	5.2	25.6	15.5	46.0	53
Cheyenne ³	6.1	7.8 ⁶	78	8.9	8.3	8.3	10.0	61
PacifiCorp ⁴	2.0	1.3	154	2.0	2.0	2.0	2.0	100
WWDC ⁸	2.0	N/A	N/A	4.6	0.0	0.0	N/A	N/A
Other ⁷	1.5	10.8	14	3.1	0.0	1.6	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 Seminole Reservoir by exchange of Upper North Platte Basin water through a system of trans-basin diversions.
- 4 PacifiCorp has a storage contract to store water in Glendo Reservoir for Dave Johnston Powerplant.
- 5 Average is based on the 1979-2008 period.
- 6 Average is based on the 1982-2008 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 2008 Natural Flow and Ownership Procedures, the operational account may contain up to 15,000 acre-feet. On April 30, 2009, the Operational account contained 1,509 Acre-feet, the Re-Regulation space contained 0 Acre-feet.

Ownership of Water



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



INLAND LAKES RESERVOIR STORAGE

(acre-feet)

Reservoir	Total Storage End of April	30 Year Average ⁵	Percent of Average	Total Storage Capacity
Lake Alice	3,511	3,200	110	11,034 ¹
Little Lake Alice	357	233 ⁶	153	1,166 ²
Lake Winters Creek	391	538 ⁶	73	1,746 ³
Lake Minatare	38,970	31,900	122	58,795 ⁴

1 At Elevation 4182.0

2 At Elevation 4139.0

3 At Elevation 4125.0

4 At Elevation 4125.0

5 30 year average. (1979-2008)

6 18 year average. (1991-2008)

NORTH PLATTE RIVER BASIN GROSS GENERATION

Power generation was below average for Glendo and Guernsey power plants in the North Platte Basin.

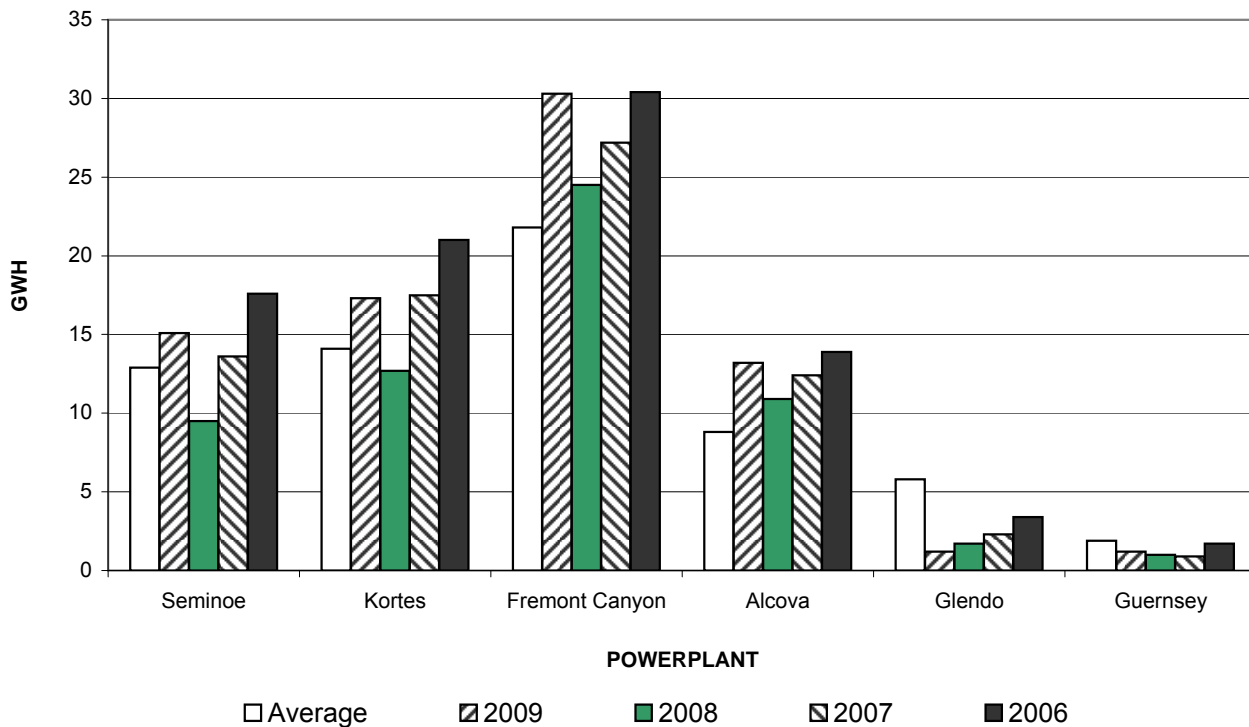
(Energy in giga-watt hours)

Powerplant	April Gross Generation			April Historical Generation			Accumulated Gross Gen. (October - April)		
	W. Yr. 2009	30 Yr. Avg. ²	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006	W. Yr. 2009	30 Yr. Avg. ²	% of Avg.
Seminole	15.1	12.9	117	9.5	13.6	17.6	41.1	66.8	62
Kortes	17.3	14.1	123	12.7	17.5	21.0	48.6	73.3	66
Fremont Canyon ¹	30.3	21.8	139	24.5	27.2	30.4	60.2	86.7	69
Alcova	13.2	8.8	150	10.9	12.4	13.9	30.9	41.2	75
Glendo	1.2	5.8	21	1.7	2.3	3.4	1.2	7.9	15
Guernsey	1.2	1.9	63	1.0	0.9	1.7	1.2	3.0	40

¹ The powerplant for Pathfinder Dam is Fremont Canyon.

² Average is based on the 1979-2008 period.

**NORTH PLATTE RIVER BASIN
GROSS GENERATION
April**



NORTH PLATTE ESTIMATED MAY-JULY RUNOFF

The May 1, 2009, water supply forecast indicates above average April - July runoff for Seminoe Reservoir and Alcova to Glendo gain. The forecast for the North Platte River system is shown in the two tables below.

(1000 acre-feet)

Forecast Points	May 1, 2009 Forecast of April-July Runoff			30 Yr. April-July Runoff Avg. ²	Expected % of Avg.	Comparative Actual April - July Runoff			
	Reasonable Maximum ¹	Expected	Reasonable Minimum ¹			W. Yr. 2008	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005
Seminoe Reservoir	920	770	620	704	109	956	425	546	733
Sweetwater River Above Pathfinder Reservoir	60	45	35	61	74	52	24	32	66
Alcova to Glendo	220	170	120	122	139	209	102	45	39

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

² Average is based on the 1979-2008 period.

³ Actual inflows are as follows.

	April (KAF)
Seminoe Reservoir	108.1
Sweetwater River	10
Alcova to Glendo	66

(1000 acre-feet)

Forecast Points	May 1, 2009 Forecast of April-July Runoff						30 Yr. April-July Runoff Avg. ¹
	Chance of Exceeding						
	95%	75%	50%	% of Avg	25%	5%	
Seminoe Reservoir	620	709	770	109	831	920	704
Sweetwater River Above Pathfinder Reservoir	35	41	45	74	51	60	61
Alcova to Glendo Gain	120	150	170	139	190	220	122

¹ Average is based on the 1979-2008 period.

NORTH PLATTE SNOWPACK WATER CONTENT

The tables shown below display the Snotel and Snow Courses used in the development of the April-July snowmelt runoff forecasts displayed on page eight of this report.

SWE in inches ¹

WATERSHED	May 1, 2009 snow-water content			Comparative May 1 snow-water content		
	W. Yr. 2009	30 Yr. Avg. ²	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006
Seminole Reservoir	22.8	21.6	105	22.8	14.1	19.8
Pathfinder Reservoir	10.9	14.5	75	11.6	5.6	11.1
Glendo Reservoir	12.0	11.2	106	10.8	5.0	6.2

Seminole Reservoir Watershed

SWE in inches ¹

Stations (Elevation)	Water Content	30 Yr. Avg. ²
Cameron Pass (10,300) ³	33.0	29.5
Columbine Lodge(9,300) ³	18.4	19.0
Park View (9,200) ³	6.6	7.4
Brooklyn (10,200) ⁴	25.4	28.3
Fox Park (9,060) ³	7.1	5.3
North Barrett (9,400) ³	26.0	22.7
North French (10,130) ⁴	38.4	34.5
Old Battle (9,800) ⁴	39.7	36.8
Ryan Park (8,400) ³	8.0	7.2
Webber Springs (9,250) ⁴	24.9	25.3
Watershed Average	22.8	21.6

Pathfinder Reservoir Watershed

SWE in inches ¹

Stations (Elevation)	Water Content	30 Yr. Avg. ²
South Pass (9,040) ⁴	15.6	18.1
Grannier Meadows (8,860) ³	10.1	14.6
Larsen Creek (9,020) ³	7.1	10.9
Watershed Average	10.9	14.5

Glendo Reservoir Watershed

SWE in inches ¹

Stations (Elevation)	Water Content	30 Yr. Avg. ²
Casper (7,900) ⁴	14.2	17.3
Laprele Creek (8,375) ⁴	8.9	7.4
Reno Hill (8,500) ⁴	15.5	15.0
Windy Peak (7,900) ⁴	9.2	5.2
Watershed Average	12.0	11.2

¹ SWE (Snow Water Equivalent) is the amount of water in the snowpack expressed in inches)

² Average is based on the 1971-2000 period

³ Represents a Natural Resources Conservation Service (NRCS) Snow Course Site.

⁴ Represents a NRCS Snowpack Telemetry Network (SNOTEL) Site.