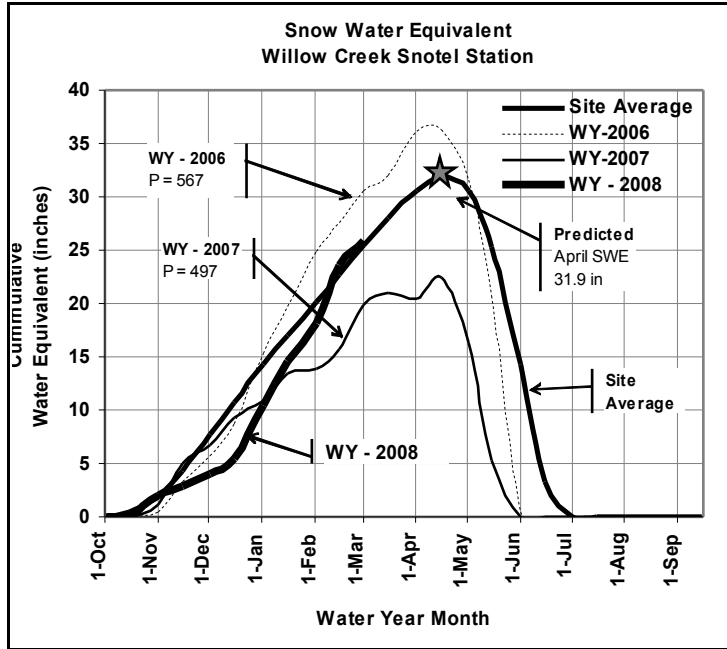


Town of Star Valley Ranch  
**Water Status Report**  
 February, 2008

2008 No.3

March 4, 2008



**Figure 1.** Accumulation of snow water equivalent for this water year (2008) compared to previous water years for the Willow Creek Snotel Station at 8380 feet southeast of Bedford, WY.

**February**

The drier than average winter became an average winter during February when an additional 8 inches of water was added to the snow pack for a total snow water equivalent (SWE) on March 1 of 102% of average. The 2008 water year has surpassed last year, which was the 6<sup>th</sup> driest on record, and the predicted SWE in mid-April (the peak accumulation) at 31.9 inches, is average. This prediction assumes that March and early April snow fall will provide an additional 6 inches of snow water. Note, as shown on the graph, the snow fall last year in March provided no new water to the snow pack.

The discharges from Prater Spring this summer should be around 550 gpm. Much better than last year.

Date	Water Year Snow Water Equivalent (inches)				
	Site Av.	2005-06	2006-07	2007-08	Site Av.
1-Oct	0.0	0.0	0.0	0.0	0%
15-Oct	0.4	0.1	0.0	0.0	0%
1-Nov	1.9	0.5	1.2	2.0	105%
15-Nov	4.3	3.3	5	2.9	67%
1-Dec	7.7	5.7	6.7	4.0	52%
15-Dec	10.7	8.7	9.3	5.5	51%
1-Jan	14.3	15.3	10.9	10.5	73%
15-Jan	17	19.7	13.4	14.6	86%
1-Feb	20.2	24.9	13.8	18.1	90%
15-Feb	22.7	27.6	15.7	23.6	104%
1-Mar	25.4	30.6	19.9	25.9	102%
15-Mar	28	32	21.2		
1-Apr	30.6	36.1	20.4		
15-Apr	31.9	36.3	0.0		
1-May	30.6	31.6	0.0		
15-May	25.3	20.7	0.0		
1-Jun	14.3	0.5	0.0		
15-Jun	3.3	0.0	0.0		
1-Jul	0	0	0	0%	0%

**About the Graph**

The graph shows the monthly snow water equivalent for various water years (WY). A WY begins in October (the month with the lowest stream flow) of one calendar and continues to September of the following calendar year; it is named for the second calendar year. The **Site Average line** shows the average monthly SWE for the site since 1982. The **heavy black line** is the measured SWE for the current water year (WY-2008). The **WY-2006** and **2007** lines show the data for the last two water years. The **callouts** present the June discharge in gallons per minute (gpm) as measured at Prater Spring in 2006 and 2007.

**Water Status Reports**

This water status report is based on snow moisture data from the automated Willow Creek Snotel station located at an elevation of 8380 feet in the Salt River Range near Bedford. Snow depth, air temperature, water stored in snow (snow water equivalent - SWE), and precipitation are measured hourly and reported here for the 1<sup>st</sup> and 15<sup>th</sup> of each month. Special Report No. 1 (December, 2006) describes methods to interpret the SWE data presented here.