

Town of Star Valley Ranch  
**Water Status Report**  
 December, 2007

2008 No. 1

January 1, 2008

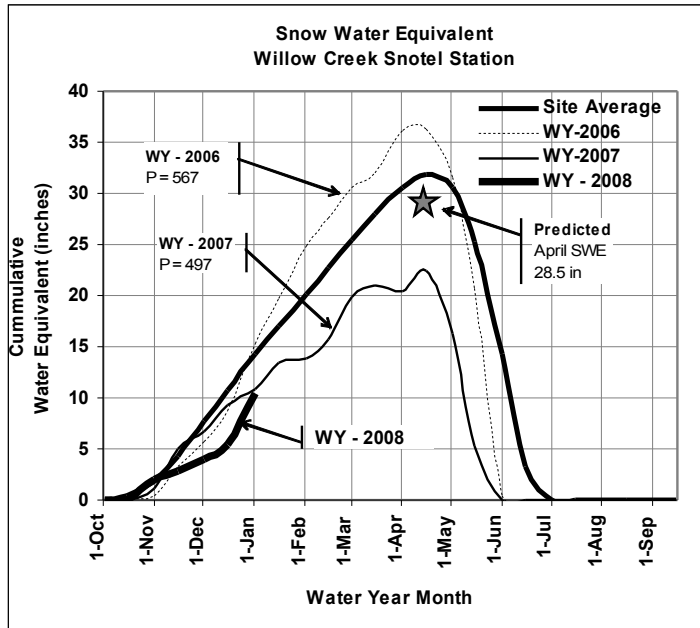


Figure 1. Accumulation of snow water equivalent for this water year (2008) compared to previous water years.

**Water Status Reports**

A 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.

**Introduction**

This is the first of the snow reports for the winter of 2007-08. They present data on the snow water equivalent, which is the amount of released from the snow upon melting, at the Willow Creek Snotel station described in the "Water Status Reports."

**December**

The early winter of the 2008 water year was dry with a total snow water equivalent (SWE) in early December of 51% of average. Late December snows raised the SWE to 10.5 inches which is 73% of average. So far the 2008 water year is similar to 2007 year but the predicted SWE in mid-April (the peak accumulation) is predicted to be 28.5 inches, which is greater than the observed April peak last year. The predicted peak SWE will change as more observations become available.

**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 and Prater springs in 2006 and 2007.

Date	Water Year Snow Water Equivalent (inches)				Site Av.
	Site Av.	2005 -06	2006-07	2007-08	
1-Oct	0	0	0	0	0%
15-Oct	0.4	0.1	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		
1-Feb	20.2	24.9	13.8		
15-Feb	22.7	27.6	15.7		
1-Mar	25.4	30.6	19.9		
15-Mar	28	32	21.2		
1-Apr	30.6	36.1	20.4		
15-Apr	31.9	36.3	0		
1-May	30.6	31.6			
15-May	25.3	20.7			
1-Jun	14.3	0.5			
15-Jun	3.3	0	0		
1-Jul	0	0	0	0%	0%