**Unit 2.2 Stream Discharge**

The data for this example is available at:

USGS 05014500 Swiftcurrent Creek at Many Glacier MT

<http://waterdata.usgs.gov/mt/nwis/uv/?site_no=05014500&PARAmeter_cd=00060,00065,00010>

USGS 05017500 St. Mary River near Babb MT

<http://waterdata.usgs.gov/mt/nwis/uv/?site_no=05017500&PARAmeter_cd=00060,00065,00010>

1. Plot monthly discharge data from January 2010- December 2014 and calculate average annual discharge for each watershed. Remember that data are presented as cubic feet per second and you will need to change units to calculate a monthly or annual average.
2. Based on these plots, make generalized statements about how and when water is cycled through these watersheds. Consider the size of the watersheds in comparing the data and things like seasonality, snowpack and water sources. It will also be helpful to look up additional information about these watershed and plot their locations on a map.

In your 5 - 10 minute group presentation, include the following elements:

* What is the main idea?
* How does this method work?
* What kind of results were obtained using this method?
* How is the data analyzed? Where should it be used? Over what timescales is it useful?
* What are its advantages and disadvantages?
* What are the limitations to this method of analysis?
* How is this relevant to the Critical Zone?