

Beth has asked me to look at the flow data that B&M has submitted for purposes of noting trends and/or unusual artifacts of the data collection. The following are some comments concerning their data sets and a request on their behalf to do some interpretation with their monthly reports.

- Measurements appear to be taken at low or base flows for the first two sample dates. Storm events have been missed and as a consequence there exists negative (preliminary) stage discharge trends for some localities. How does B&M intend to try to chart higher discharge values and present representative stage discharge curves? Will 6 points be enough to profile these stream reaches?
- For stations on the main stem does B&M have a method to do comparisons against USGS data? How good is B&M agreement with USGS data?
- Some of the discharge rates are very low (Newport drainage 12-1 and Stoneroller Creek, 13-9; i.e. .6 to 1.0 cfs) . What types of problems have the low discharge rates represented. Should some form of weir or flume be used at these sites?
- For station 13.8 (Belvidere Road) there is very little difference in the stage elevation but marked changes in the "apparent" discharge rate. Is this just an artifact of the spread in the chart axis? Will you be identifying base flows for all of the individual sites?
- Station 18-1(Aptakistic Creek) is "flashy" by comparison with other sites. Is this an artifact of the stream profile or are there other reasons for the flashiness?
- Station 17-1 (Buffalo Creek) is a large stream bed and the watershed is capable of some very high discharge rates. Does your staff have some **safe** ways of monitoring this stream bed at higher discharge rates?
- It would be useful to identify base flow vs. the area drained.
- As you do your monthly reports could you comment on individual sites that represent unique or special patterns and/or trends. We value your observations.
- Have there been any discussions with SMC on the desirability of profiling flood discharge rates. These high flows represent significant events for the delivery of nutrients.

JKB