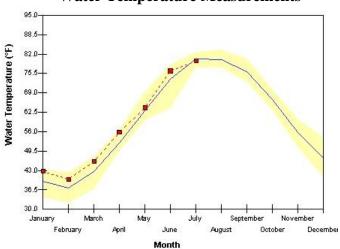
## **Chesapeake Bay Water Quality Measurements**

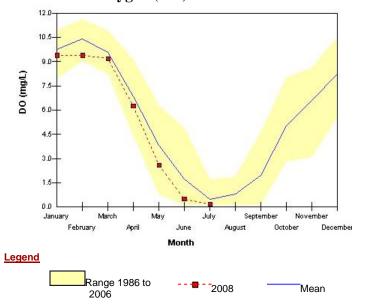
## Water Temperature Measurements



1. Describe the mean temperature change between February and July.

2. Describe the mean dissolved oxygen (DO) change between February and July.

## Dissolved Oxygen (DO) Measurements



3. What conclusion can be drawn from the data about the relationship between temperature and DO?

4. Alewife is a type of fish that lives in the Chesapeake Bay. Adult Alewife can survive in DO concentrations of 3.6 mg/L, however their eggs require a DO concentration of at least 5 mg/L. Which months do you think Alewife spawn (release eggs into the water)? Why?

- Graphs from: http://mddnr.chesapeakebay.net/bay\_cond/bay\_cond.cfm?param=bdo&station=CB52
- 5. How do human activities impact the temperature and DO of the Chesapeake Bay? What actions can you take to decrease the negative impacts on the bay?