Reading Statistical Tables *Handout*

Students will compile and utilize a statistical table using website data.

INSTRUCTIONS:

A watershed (also called a drainage basin) is an area on the land surface from which water flows, or has the potential to flow, into a stream or lake. Watersheds are *naturally* separated from adjacent basins by topographic divides. Therefore, watersheds can cross *political* boundaries such as county lines. For instance, some of the water from Hillsborough County flows into Pinellas County. In this lesson we will be examining several lakes from the Brooker Creek Watershed in Hillsborough County since water from these lakes ultimately flows into areas of northern Pinellas County.

1. Go to the website: www.Hillsborough.WaterAtlas.org. Open the ATLAS. Go to the first lake on your list. Use links in the website to define and learn the vocabulary terms and what the trophic state index means.
2. Complete the data table. Use the search box to move from lake to lake on the website.
3. *a.*Which has the greatest mean depth? *b.*The least mean depth? *c.*What does mean depth tell you?

DESCRIPTIVE DATA ON LAKES IN THE HILLSBOROUGH WATERSHED ATLAS:

	Lakes	Surface Area in Acres	Mean Depth in Feet	Maximum Depth in Feet	Trophic State	Impaired or OK?
1	Lake Alice					
2	Buck Lake					
3	Lake Calm					
4	Crescent Lake					
5	Island Ford Lake					
6	Juanta Lake					
7	Keystone Lake					
8	Little Moon					
9	Mound Lake					
10	Lake Taylor					

Name: Date:

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4. Tally the number of lakes according to the historic average of the Trophic State Index in the tables in the boxes below. If the lake is Impaired, write "Imp." instead of a tally mark.

Good		Fair	Poor
Oligotrophic 0-49	Mesotrophic 50-60	Eutrophic 61-69	Hypereutrophic 70-100

5. How can a lake in the Good section be impaired? If you found an impaired lake, go to that lake and click on the IMPAIRED icon. What other factors are considered when a lake is considered impaired?
Read the information. Click on the graph icon and read the graph.

6. There are four trophic states. Which is the mode for the lakes in the table?