Pinellas County Watershed Atlas Learning Kit

Precipitation at Keystone Road - Advanced

Student Handout

INSTRUCTIONS: Go to the website: www.Pinellas.WaterAtlas.org

Go to the bottom where it says New Near Real Time Data Mapping Application. You are looking at the sites where live data is recorded in Pinellas County.

BROOKER CREEK AT KEYSTONE ROAD:

1. Zoom in to the area north and east of Lake Tarpon and find Keystone Road. You will have to click and drag the map to center it. Find the station labeled "Brooker Ck Preserve Rainfall NR Tarpon Springs" (station ID # 280842082392000).

2. Click on the green bubble, observe the data available to you (map of site, type of data recorded, links available, etc.), and answer the following questions:
   a. What data does this station record? _____
   b. How often is the data updated? _____

3. Click on the 24-hour, 7-day, and 31-day graphs to answer the following questions by looking at the precipitation graph:
   a. Has it rained in the last 31 days? _____
   b. What about in the last 7 days? _____
   c. In the last 31 days which date had the most precipitation and how much occurred?
   _____

4. Now you will make a table of the precipitation data for the last 24 hours. Click on the 'data' tab and select the option to view 'the last 24 hours worth' of data. Select a time period of 3 hours where precipitation occurred. This would be equal to 12 measurements. Complete the table using these data.

Date/Time (x-axis)	Rainfall Value (y-axis)

5. What unit is precipitation recorded in? _____

Name: Date:

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6. Using data from the table above create a line graph in the space below. Be sure to label x-axis, y-axis, and provide units.

7. What 1 hour period had the highest precipitation amount? _____

8. What was the **total** precipitation for this 1 hour period? _____

9. If you were asked to predict the precipitation totals for this same area exactly 12 months (1 year) from now, what would you predict, and why? _____
_____
_____

10. How would you describe the environmental conditions that caused the precipitation amounts observed in your data set? _____
_____
_____

11. Are the precipitation data you just recorded considered discrete or continuous? Explain why. _____
_____
_____

12. Who would be interested in seeing graphs of precipitation over time? _____
_____

13. Why would these individuals be interested in these data? _____
_____

14. What additional information might you include with these precipitation charts and why? _____
_____
_____
_____