Name:_____   Date:_____

Exploring the DWP Data

Background:

> The Los Angeles Department of Water and Power, also know as the DWP, wants to encourage people to conserve water. They will use the water used in 2010 as a baseline to compare water savings. The question they want to research is:

> **How is water used in Los Angeles?**

Instructions:

1. Refer back to the statistical questions you and your team wrote in the previous lesson. Write them down on poster paper.

2. Your questions should cover each of the following three (3) types of variation:

    a. Variation in water use across time.
    b. Variation in water use across space.
    c. Variation in water use between types of buildings.

3. Next, login to RStudio and load the `dwp_2010` water dataset.

4. Then, use what you know about analyzing data to answer your team's statistical questions. Write the answers on poster paper.

5. Continue exploring the data to inform the DWP. Write down one interesting finding on the poster paper.

6. Finally, write a brief explanation to the DWP about how water is used in Los Angeles. Can you give them any advice on how to conserve water based on these data?

7. What statistical questions cannot be answered by the DWP data?