

Backyard Precipitation Station (for all ages!)

Most ecosystems, like the bosque, rely on precipitation (rain, snow, and hail) to grow and support plants and animals. Some of the rain flows into the Rio Grande and some falls onto and into the ground for plants and humans to use. Knowing how much precipitation an area gets is important when looking at the overall health of an ecosystem. Learn how to create your own precipitation gauge and how to analyze data in this activity!

Create your own Precipitation Gauge!

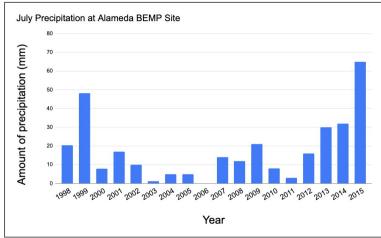
Materials:

- Large soda/juice bottle
- Tape/paper clips
- Rocks/gravel/sand
- Marker

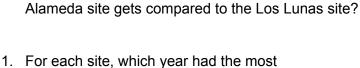
Method:

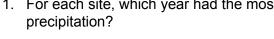
- 1. Cut the top off of your bottle below the rounded top.
- 2. Fill the bottom with rocks, gravel, or sand so it is flat.
- 3. Using a permanent marker, mark every half inch on your bottle after the rocks.
- 4. Flip the lid you cut off over and place it inside the bottom piece to make a funnel. Secure with tape or paper clips.
- 5. Put your gauge in an open area. You can check it every day, week, or month (BEMP checks the rain gauges in the bosque every month).
- 6. Reset your gauge after you record the amount. Pour the collected water in a plant if you can! Create a graph of your data!

data.

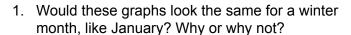


1. The Alameda BEMP site is north of the Los Lunas

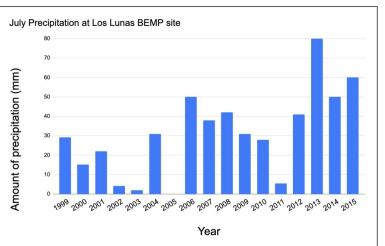




1. What is being shown in these graphs?



1. Plants, like the native Cottonwood tree, depend on lots of water to grow and live. Do you expect the cottonwood trees to be healthier at the Alameda or Los Lunas site? Why?





Take it to the next level! Look at the graphs and

answer the following questions related to the BEMP

a. What is the x-axis (independent variable)?

b. What is the y-axis (dependent variable)?

BEMP site by almost 30 miles. Is there any

difference in the amount of precipitation the