

# Grasslands and Climate Change

Lesson Title: Grasslands and Climate Change

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Name: \_\_\_\_\_



## Experiment:

Once you have laid out the plots with the help of your teacher, you should complete the information asked for on this student sheet.

1. Illustrate your **experimental layout** and explain how you treated each transect line.

2. Here, keep track of the **observations** you note as you run the experiment.

3. Here, make a data table to keep track of your **data**. Include the mass of the grass and non-grass material for each plot.

	Grass/Control	Non-Grass/Control	Grass/Watered	Non-Grass/Watered
Plot 1				
Plot 2				
Plot 3				
Plot 4				
Plot 5				
Plot 6				

4. Now, **analyze** your data. It may be helpful to create charts and/or graphs using the information you included in the data table.

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### **Post-Experiment Questions:**

Now that you have completed your experiment, reread the short EurekaAlert article and pp. 26-27 in the Cherry & Braasch book.

How was your experiment similar to or different from those performed at the Angelo Reserve?

How was your experiment similar to or different from those performed in the Tundra (pp. 26-27 in Cherry & Braasch book)?

Did the amounts (mass) of fruits and seeds (reproduction) differ between your control and experimental plants due to increased water?

Do you think increasing or decreasing rainfall in your school yard would change plant reproduction?

Do you think increasing or decreasing rainfall could also affect the animals that live in your school yard (remember reading about the grasshoppers and spiders in the Angelo Reserve, and caribou in the tundra)?

Do you think increasing or decreasing rainfall might affect the crops and horticultural plants grown in your town or state?