

The amazing Edith  
Ambriz and Adriana  
Allen's Ozone  
Project!!!

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# Purpose

How does ozone affect leaves/the development of leaves?



# Hypothesis

We think that the leaf will be more affected by higher amounts of ozone and not affected by lower amounts of ozone. We think the higher amounts will make the leaf brown and shriveled.

# Materials

- Ozone strips (and distilled water)
- Leaves (alive)
- Toothpicks
- String
- Scissors



# Procedures



- Wash hands first!
- Poke hole in ozone strip with toothpick
- Cut and tie string in hole
- Go outside and grab leaf from bush (always the same bush)
- Poke hole in leaf with toothpick
- Tie string in hole
- Tie ozone strip and leaf to stair railing outside
- Come back in an hr. and cut string from railing
- Calculate ozone (ppb)

# Parts of an experiment

- Independent Variable: The independent variable is the ozone level for that day
- Dependent Variable: The dependent variable are the condition of the leaves
- Constant: The constant is the time we put the leaves outside



# Lab Safety

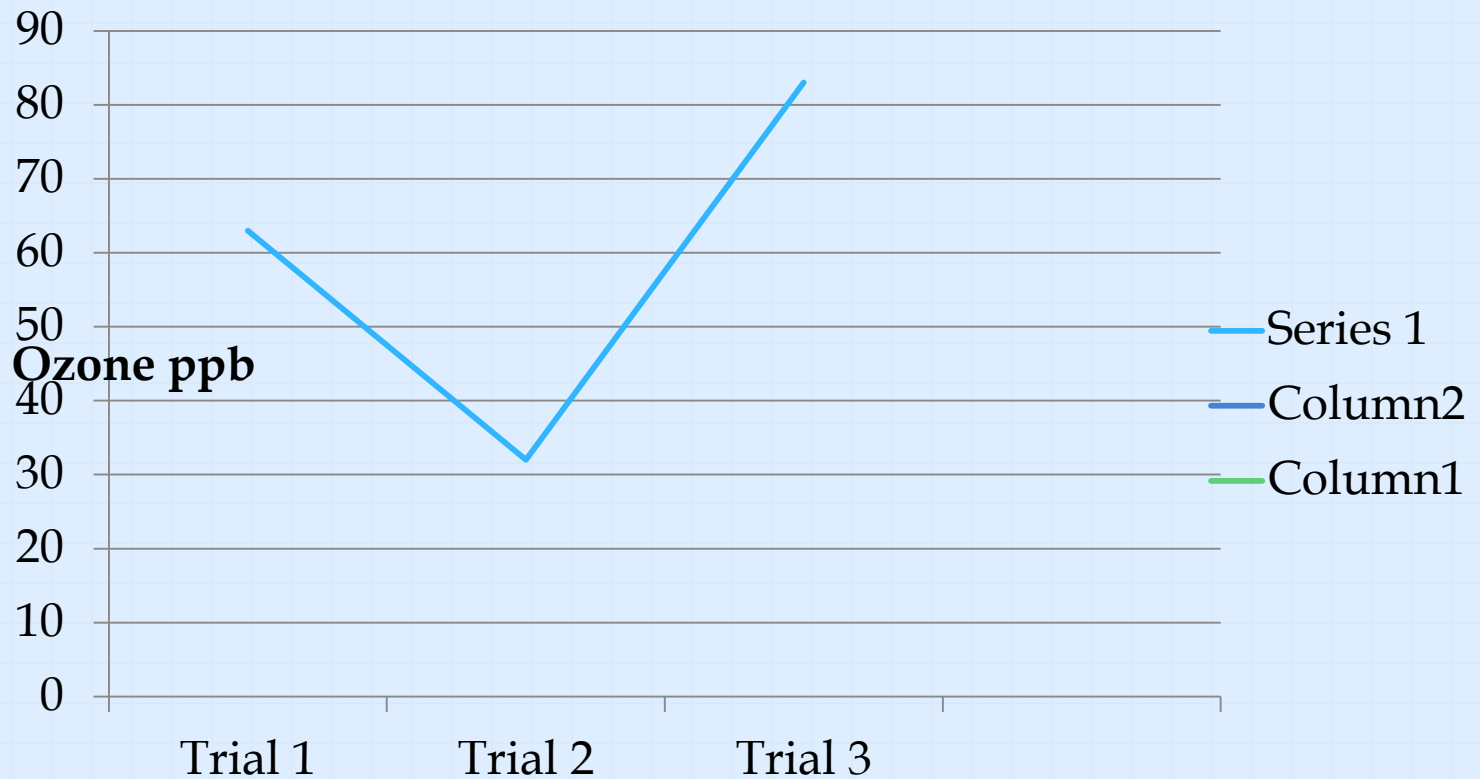
- Wash hands before and after conducting experiment.
- Do not eat or lick any of the supplies used for the experiment.



# Data Table

IndVariable	Trial 1	Trial 2	Trial 3	Average
Ozone (ppb)	30ppb	110ppb	15ppb	52.33
Humidity	63%	32	83%	none
Temp.	39	56	57	none
Date	3/1/13	3/4/13	3/5/13	none

# Graph of ozone readings





# Conclusion

Our data did not support our hypothesis. We learned that the ozone actually affects the leaf in no way at all. The leaf stayed the same before and after experimentation.



If we continue this experiment next year, we'll use a different type of plant and test for a longer amount of time.

Bye!

