

## CALIFORNIA STATE SCIENCE FAIR 2006 PROJECT SUMMARY

Name(s)	Project Number
Ben J. Pfenninger	J1625
	JIUZJ
Project Title	
The Natives Strike Back	
Abstract	
Objectives/Goals	id min on motive and non-motive plants
The objective of tis experiment was to find out the effect of acid rain on native and non-native plants. <b>Methods/Materials</b>	
36 native, and 36 non native seeds were planted in separate containers. Then they were equally divided,	
one for control and one for experimentation. The experimentation group received distilled water the first day and an acid substitute (pH was 4) the control group received just distilled water. The acid solution	
was made by mixing 4 parts vinegar and 6 parts water. The plants were watered with an atomizer bottle.	
Plants were right next to each other and received same amount of sunlight, moisture, and soil. Everyday the pH of the soil and the temperature of the room where the plants grew was measured. At the end of the	
experiment success was measured based on blade length and survival rate.	
<b>Results</b> The data suggested that the acid mixture did not effect the plant growth but did effect how many sprouts	
grew. Grass on both sides sprouted better with just water but Native grass seemed less affected by the	
acid mixture. The acid solution did nothing to effect the native grass's growth. The non-native's growth did change but not drastically. One should note that since there was only one sprout that a solid	
conclusion could not be made.	was only one sprout that a solid
Conclusions/Discussion The Data did not support my hypothosis which was that Non-Natives would do better under acid rain then	
Native.	Natives would do better under acid fam then
Summary Statement	
Native plants are less damaged by acid rain then Non-Native plants in Tulare County.	
Help Received	
Father helped with graphic design	