

CALIFORNIA STATE SCIENCE FAIR 2005 PROJECT SUMMARY

Name(s)	Project Number	
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Project Title		
The Effect of Rain pH on Ryegrass		
Abstract		
The objective of this experiment was to ascertain the pH level at which ryo noticeable tissue destruction.	egrass would begin to show	
Aethods/Materials		
30 flats of ryegrass were grown and divided into five treatments of differe concentrations were created using distilled water and vinegar to simulate a using pH paper. Each flat was sprayed using a spritzer bottle with 280 mL week. Each application was applied until water was running off the blades	nt pH levels. The pH acid rain. The pH was measured of solution over a period of a a. After each application, plants	
were observed and any damage was recorded.		
Results The flats that were sprayed with a concentration of 49 parts water: 1 part v first signs of tissue deterioration. The 2:1 concentration (pH: 3) showed sign chlorophyll. The pure vinegar solution (pH: 2.5) resulted in the death of the	vinegar (pH: 3.5) showed the gnificant reduction in the plants.	
Conclusions/Discussion The results indicate that in short-term time periods, acid rain does not beconsistent to the second state of 3.0 has been measured between 3.0.3.5. Since rain pH of 3.0 has been measured between 3.0.3.5.	ome dangerous for ryegrass until	
suggest that this could be harmful to plant life.	area on the west coast, our data	
Summary Statement		
This project was done to determine the rain pH at which ryegrass begins to	o show damage.	
Help Received		
Teacher edited manuscript and provided instructions on cultivating grass.		