



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

Name(s) Amanda B. Haney	Project Number J0912
Project Title Acid Rain: Friend or Foe?	
Abstract Objectives/Goals The purpose of my Science Fair experiment was to find out which level of acidity, 3, 4, 5 or 6, was most harmful to plant growth. I hypothesized that my controlled group, with a neutral pH level of 7, would grow the tallest and have the most leaves, because there was no acid to affect the growth. Methods/Materials To test my hypothesis I planted 20 seeds in 5 groups of 4, with the seeds and soil as my control. Each group was watered with a different pH level of water. The groups were labeled: group 3, 4, 5, 6 and 7 (group 3 was watered with water a pH level of 3, group 4 was watered with water a pH level of 4, etc.). Each plant was watered with 59.15ml (1/4 cup) of water. The plants were watered as needed, and I measured them every 4-8 days. Results My results revealed that my hypothesis was incorrect. Although my controlled group had the most leaves, it did not grow the tallest. The most acidic plant, watered with a pH level of 3, grew the tallest, but did not have the most leaves. Conclusions/Discussion In conclusion my results did not support my hypothesis; however, I believe that if I continued this project for a longer period of time (such as a year) I would see results supporting my hypothesis. I believe this additional time would be needed to ensure that the acidity level in the soil is equal to the acidity level in my pH solution.	
Summary Statement The purpose of my Science Fair experiment was to find out which level of acidity, 3, 4, 5 or 6, was most harmful to plant growth.	
Help Received	