



**CALIFORNIA STATE SCIENCE FAIR
2003 PROJECT SUMMARY**

Name(s) Nicole L. Sheaffer	Project Number S1423
Project Title Effects of Aluminum on Leaf Consumption in Porcellio laevis	
Abstract Objectives/Goals I wanted to determine that higher concentrations of aluminum in leaves has a negative correlation to the consumption of those leaves. Methods/Materials I used an oven to dry the leaves and I then added 10 ml of aluminum solution and distilled water to each cluster of 0.10 g of leaves. Then I determined how the aluminum affected the consumption by counting the fecal pellets. Results My data supported my hypothesis with the exception of a "spike" in the leaves that contained 1,000 micrograms of aluminum. Conclusions/Discussion The "spike" in the 1,000 microgram concentration led me to believe that a trace amount of aluminum is either wanted or needed by the sowbugs.	
Summary Statement I put different concentrations of aluminum into Bougainvillea leaves and tested the consumption of the leaves in Porcellio laevis (sowbugs) in an attempt to determine if aluminum affects the consumption rate of the sowbugs.	
Help Received Mr. Nordell helped me to collect the leaves and bugs, and to help me mix the aluminum solution; Sister helped to count the fecal pellets for one of the trials while I was away.	