



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

Name(s) Andrew (Andy) J. Hiller	Project Number 22093
Project Title Super Sow Bugs	
Abstract Objectives/Goals The objective of my experiment was to determine what amount of light sow bugs prefer when given the choice of a shaded terrarium or a non-shaded terrarium. Methods/Materials I wrapped two terrariums with black construction paper. Then I put soil in each terrarium, followed by fifteen sow bugs in each one. Immediately after I placed a light with a 50 watt grow light over the terrariums. Then I placed weed cloth over one of the terrariums. My purpose was to create two different environments for comparison. Results The sow bugs in terrarium A (shaded) were healthier and more active than the sow bugs in terrarium B. In terrarium B (unshaded) the sow bugs were not as healthy, less active, and one of them died. In conclusion, I observed that the sow bugs preferred less light. If they were exposed to too much light, they would become sickly and possibly die. Conclusions/Discussion My results did support my hypothesis, because my hypothesis was that I thought the sow bugs would prefer dark areas and my results confirmed that. Conducting this experiment greatly expanded my knowledge of zoology and isopods. Before, I didn't know of sow bugs light preferences and now I know everything from their eating habits to their preferred habitats.	
Summary Statement In this project I compared the light preferences of sow bugs; it was evident that they preferred less light.	
Help Received My mom, Suanne, helped type my report, my teacher, Mrs. Underwood conferenced with me, and my dad, Tom helped with setting up my graph.	