



**CALIFORNIA STATE SCIENCE FAIR
2010 PROJECT SUMMARY**

Name(s) Karley J. Lassley	Project Number J2314
Project Title Which Local Plant Extracts Will Be an Effective Pesticide on Mosquito Larvae and Still Be Safe for Other Aquatic Life?	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals The purpose of my science project is to determine if local plant extracts will kill mosquito larvae and still be safe for other aquatic life. The reason I am doing this project is to find a natural pesticide for mosquito larvae that will not cause harm to other living creatures in our environment.</p> <p>Methods/Materials For my control I will place 10 mosquito larvae in a container filled with water. In my next test I will place 10 mosquito larvae in a container filled with 15% oleander extract and 85% water. In the next test I will place 10 mosquito larvae in a container filled with 5% oleander extract and 95% water. In the next test I will place 10 mosquito larvae in a container with 15% chrysanthemum extract and 85% water. In the next test I will place 10 mosquito larvae in a container with 5% chrysanthemum extract and 95% water. I will repeat all of these tests using 10 frog eggs in place of mosquito larvae.</p> <p>Results The results of my science project; Which local plant extracts will be an effective pesticide on mosquito larvae and still be safe for other aquatic life? I have found that of the variables used neither the chrysanthemum or the oleander would be safe to use in our ponds to kill mosquito larvae.</p> <p>Conclusions/Discussion After completing my project; Which local plant extracts will be an effective pesticide on mosquito larvae and still be safe for other aquatic life? I have found that my hypothesis for both oleander and chrysanthemum were incorrect. While both were very effective in killing the mosquito larvae they both also damaged the frog egg sack.</p>	
Summary Statement To determine if local plant extracts will be an effective pesticide for mosquito larvae and still be safe for our environment..	
Help Received Mother helped with typing and photos. UC Davis supplied mosquito larvae and mosquito information..	