



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

Name(s) Clare R. Ouyang	Project Number 22282
Project Title The Effect of Garlic Salt on the Development of Mosquitoes	
Abstract Objectives/Goals The purpose of my experiment was to find out if garlic salt was really effective in killing mosquito larvae, and what it would do to the development of the larvae. My hypothesis was that the higher the amount of garlic salt in the solution, the more mosquito larvae would die, and would develop slower than those in the concentrations with less garlic salt. Methods/Materials I mixed garlic salt with drinking water for different concentrations of solution, and poured eighty milliliters into each of twenty baby food jars. They were five (control, 0.1 grams of garlic salt/mL, 0.3g/mL, 0.5g/mL, 0.7g/mL) with four jars in each group. Next, I picked up 10 mosquito larvae of <i>Culiseta Incidens</i> into each jar. Until all mosquitoes have either died or became adults, I recorded the growth and development of the mosquitoes everyday. Results The mosquitoes living in the 0.3 grams, 0.5 grams and 0.7 grams solutions were barely able to live to the pupa stage. While the larvae in the control and 0.1 solutions, most were likely to live until adulthood. Conclusions/Discussion My hypothesis was correct-the garlic salt has effects on killing mosquitoes. The more garlic salt present in the solution, the more likely that less mosquitoes are going to live. Also, the higher the concentration, the slower the mosquito larvae will develop.	
Summary Statement My project was about controlling the growth and survival rate of mosquitoes using various concentration of garlic salt solutions.	
Help Received Mr. Francis Lee helped gather mosquito eggs.	