



**CALIFORNIA STATE SCIENCE FAIR
2005 PROJECT SUMMARY**

Name(s) David Steffen	Project Number J1436
Project Title Comparing the Effects of Natural Pesticide on Mosquito Larvae	
Objectives/Goals My goal is to determine if I can use a safe natural pesticide to help control mosquito population. I will see if there is natural, environmentally safe, process that can kill mosquito larvae and reduce the chances of spreading West Nile Virus.	
Abstract Methods/Materials I will place 50 mosquito larvae into 4 different containers. Each container will have 16 cups of water. I will then place the natural pesticide into the water. 1 and a half cups of the following: One container will have orange peels Another container will have camphor leaves added. Another will have banana peels added. And the fourth container will have nothing added (control) I will then record results to determine how the natural substances effected the larvae. Larvae will also be fed to make sure starvation doesn't play into the results.	
Results Results were very exciting: Control - all 50 larvae lived Orange peels - all 50 larvae died within a very short time! (24 hours) banana peels - not much effect 7 of 50 died camphor leaves - similar to banana	
Conclusions/Discussion My experiment showed that orange peels will have a direct effect on killing mosquito larvae. This will provide a safe, natural pesticide, that you can use in standing water without the risk of hurting humans or animals. I think this will also help in keeping the spread of West Nile Virus under control.	
Summary Statement I want to see if there is a safe, natural, pesticide that can be used to help control mosquito population.	
Help Received Teacher helped set up project, and acquire mosquito larvae.	