



**CALIFORNIA STATE SCIENCE FAIR
2007 PROJECT SUMMARY**

Name(s) Yuliya Tumaykina	Project Number J0920
Project Title Ecologically Safe Methods of Getting Rid of Whiteflies	
Abstract Objectives/Goals The goal of this experiment is to find a way to get rid of whiteflies with out harming the ecology around. Methods/Materials The question is, How does changing of the natural factors applying to the whiteflies affect the viability of whiteflies? It is hypothesized that at least one of the substances will prevent whitefly eggs from developing because many of the substances used kill germs. The procedure of the experiment is as follows. Some leaves infected with whitefly eggs were gotten and put in six plastic containers. Each container contained 3 infected leaves and 1-2 fresh leaves. Also, each of the containers were sprayed inside with a different substance- eucalyptus oil, pine tree oil, lavender extract, onion juice, regular arrowhead drinking water, and some lady bugs. The containers were covered with a thin net so that the whiteflies, the leaves and the ladybugs would not suffocate. Data was collected every other day to see if anything had hatched or if the eggs had gotten larger. Results The results support the hypothesis. The leaves that were sprayed with onion juice showed no whitefly egg development. Also, the ladybugs ate all of the whitefly eggs.	
Summary Statement The project summary is to find a way to get rid of whiteflies with out harming the ecology around.	
Help Received My parents helped me buy the items needed for this experiment. Professor Mark Hoddle encouraged me not to give up when a sudden cold killed all of the whiteflies I was working with. He told me to try and search for whiteflies and whitefly eggs in plant nurseries.	