

## CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s) **Project Number** Mitzi K. Larson 22050 **Project Title** Can Household Products Deter Whitefly on Home Garden **Abstract Objectives/Goals** The objective of my experiment was to see if homeowners could decrease the a oun of pesticides usedx in their gardens. Methods/Materials Materials: pencil, styrofoam cups, Casaba Melon seeds, hose, ruler measuring eux, dirt, soil, sprayx bottles, WD-40, instant coffee, Acetone, 100% Corn Oil, water, Palmelive Dish soap, 2 Tablespoons. Methods:Plant two Casaba seeds in each of the 24 styrofoam cups 1/2 an inch deep. Water every otherx day. After noticind 10-15 Whitefly per leaf begin spraying. You'll need 6 spray bottles of the same type. In the first bettle pour 1 pile of water. In the next bottle mix 2 tablespoons of instant coffee with 1 pint of water. Do this with an bottle, but use acetone, WD-40, dish soap, corn oil, and acetone, repaeating the 2 tables poors with 1 pint of water ratio. With the first set of 4 plants saturate the leaves with water. Do the same woth each set of 4 plantsusing a different substance. Saturate the leaves with the same substace every third day, but still water and record average the number of whitefly per leaf. Continue this procedure times. In this experiment the problem was solved, and my hypthesis was correct. The dish soap did the best job to deter the greatest amount of white fly **Conclusions/Discussion** The dish soap did do the best job to deter whitefly as I said in my hypothesis. If I could make any changes I would lower the household product to water ratio due to obvious burning to the leafes. Summary Statement To see of household oducts can deter whitefly on home gardens. Help Received My Mom: Helping me come up with the great idea. Father: Telling the best depth to plant the plants. Ralph Strahm: For providing me with the Casaba Melon seeds. Mrs. Miranda: pushing me to go further