



**CALIFORNIA STATE SCIENCE FAIR
2015 PROJECT SUMMARY**

Name(s) Joshua B. Weinerth	Project Number J2117
Project Title The Effect of Neonicotinoid Chemicals on Bee Health	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals To determine the effect of neonicotinoid chemicals on the health of honeybees.</p> <p>Methods/Materials Varying levels of neonicotinoid chemicals were given to 11 different groups of caged bees via a food solution. Resulting changes in health were recorded.</p> <p>Results I found that the greater the concentration of neonicotinoids, the faster the bees were killed.</p> <p>Conclusions/Discussion My experiment did indeed show that neonicotinoid chemicals harm bees. However, I did not expose the bees to the chemicals the same way the bees would be exposed in nature. I believe that an interesting follow up to this experiment would be to use the same concentration of neonicotinoids that would be found in plant nectar after the plant had chemical applied to it. This would prove if the chemicals are fatal to honeybees at recommended applications levels.</p>	
Summary Statement My project is about the effect of neonicotinoid chemicals on the health of honeybees.	
Help Received I received help from my dad, grandpa, and science teachers Ms. Phillippe, and Mrs. Ransom	