

An Environmental Study: Activated Carbon as a Neutralizing Agent of a Pesticide Imidachloprid

Lopez, Isabella (School: J.W. Nixon High School)

The purpose of this experiment was to prove that activated carbon can neutralize the harmful effects of Imidacloprid, a pesticide. Using activated carbon can be a way for farmers and landowners to clean polluted areas or crops. The experiment was conducted in tanks that were built for this experiment. Each trial utilized a different concentration of the activated carbon solution. In Tank A, dependent on the trial # a specific dosage of Imidacloprid and/or the activated carbon solution was sprayed. I observed the number of flies still alive in each experimental tank at the end of a 1-hour period and collected my data. Tank B, is connected to Tank A, no direct spraying of Imidacloprid or activated carbon solution took place. The effects on Tank B flies are due to the diffusion of the chemicals from Tank A. My data showed that activated carbon can reduce the effects Imidacloprid. This means that farmers may be able to use the activated carbon on their crops to reduce the effects on the environment and to prevent the pesticide from spreading to other fields of crops.