

CALIFORNIA STATE SCIENCE FAIR 2009 PROJECT SUMMARY

Name(s)

Calvin D. Nishimoto

Project Number

J2315

Project Title

Investigating the Effects of Automotive Fluids on the Regeneration of Planarians

Abstract

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Objectives/Goals

My project is to determine if water containing trace amounts of automotive fluids has an effect on planarians regeneration.

Methods/Materials

I conducted my experiment by first adding used and unused motor oil, used and unused coolant, and used and unused transmission fluid to spring water. I then filtered the water before placing two planarian tails in ten cups of each test variable. I then observed and recorded how many planarians regenerated.

Results

After completing my investigation, the used motor oil and unused coolant most negatively effected the planarian's regeneration rate.

Conclusions/Discussion

My conclusion is that when you dump hazardous wastes in to our ground water, even though it gets filtered, it can still be harmful to our environment. In addition, used motor oil and unused coolant were the worst fluid contaminents.

Summary Statement

In my project, I determined that filtered automotive fluids had a negative effect on planarians regeneration.

Help Received

Stereoscope from science teacher; Dad got me automotive fluids and supervised my experiment