



**CALIFORNIA STATE SCIENCE FAIR
2010 PROJECT SUMMARY**

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| Name(s) Dustin N. Rutherford | Project Number J1225 |
| Project Title Effects of Various Environmental Pollutants on Tenebrio molitor | |
| Abstract Objectives/Goals I will investigate the effects of four modern day environmental pollutants on mealworms caused by industrialization. Methods/Materials I will use 625 mealworms, divided into 5 groups containing five containers in each group, with 25 mealworms in each container. The five groups are: 1. Environmentally Friendly Dish Soap 2. Acid Rain 3. Livestock Run-off 4. Car Exhaust 5. Control Group/Tap Water Results I determined that the various pollutants did have an effect on weight, development and deaths of the mealworms. Conclusions/Discussion The Environmentally Friendly Dish Soap killed the most worms, however; they developed faster than the other groups. The least amount of worms died in the Livestock Run-off Group and the Car Exhaust Group developed the slowest. | |
| Summary Statement Environmental pollutants will have various effects on the development of Tenebrio Molitor (mealworms). | |
| Help Received Mom proof-read my papers, my dad helped me acquire car exhaust and my teacher loaned me his scale. | |