

CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s) **Project Number** Spencer D. Christensen 22431 **Project Title** The Use of Phytoremediation to Lower Selenium Levels/in Soil **Abstract Objectives/Goals** My objective was to learn how much selenium was abstracted from the ground erent plants. Another objective was to see what efect the selenium had on the different plant f these plants would take up more selenium if they were planted in more. Methods/Materials First I tested how much selenium would saturate the entire one gallon pot full of soil. I then planted the seeds in stater pots and waited until they grew and transplanted them into the selenium contaminated soil. I took growth and water charts until they were ready to be tested. I cleaned the plants of with water and put them in a freezer room where later they were tested for sclenium uptak **Results** the results were canola took up more selenium than broccoin all the reps. Also when the selenium amount increased so did the uptake by both plants, and the plants with more selenium were bigger. **Conclusions/Discussion** Over all most of my hypothese were correct. My first hypothesis has correct both plants took up selenium so was my second (Canola took up more selenium than broccoli), but my third was off. The more selenium contaminated in the soil did change the amount taken up by both plants. Summary Statement My project is about. use of phtoremedeation to clean soil. **Help Received** Dr. Banuelevs help type and test report, mother helped type.