



Colorado Science and Engineering Fair

2025 Individual Project Abstract Form

Please print 2 copies of the completed form. Sign both copies, keep 1 for your notebook and submit 1 copy to your Regional Fair Director with your other paperwork.

Title of Project: The Effects of Grey Water on Agricultural Crops

Finalist's Name: Hailey Yarbrough

School and City: Green Mountain High School, Lakewood

Sponsor's Name: Jennifer Flores

Category: Plant Sciences

Division: Senior (grades 9 - 12)

Abstract (250 words or less):

The issue of growing crops is starting to get bigger throughout the world. The project will focus on seeing if grey water can replace tap water for growing crops, plants and so many other sources that use water for growing. If gray water starts to be used to grow crops and plants we would see a great significance in how much water the human race is saving. We hypothesize that gray water can be used without having a significant impact on plant growth. We will test our hypothesis by using two agriculturally relative plants, lettuce and radishes. We will use three different gray water compositions on the two plants. This hypothesis will be tested by measuring the plants' growth rate.

I hereby certify that the above statements are correct and the information provided in the Abstract is the result of one year's research. I also attest that the above properly reflects my own work.

Finalist's Signature:

Date:

In addition, all students must complete the ISEF Student Checklist (1A), Research Plan, Approval Form (1B), and Checklist for Adult Sponsor (1), and any other ISEF forms required for this type of project. See the International Rules and Guidelines for form requirements. Return COPIES of all of these forms to your Regional Fair Director with you Finalist Verification/Permission Form. **A signed copy of this form must be included in your notebook.**