



Colorado Science and Engineering Fair

2025 Team 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: Dangerous Weeds

Team Leader's Name: Elle Bohnen

Team Member 1: Grady Steerman

Team Member 2:

School and City: Stratton Schools

Sponsor's Name: Dannette McConnell

Category: Plant Sciences

Division: Senior (grades 9 - 12)

Abstract (250 words or less):

This experiment is called "Dangerous Weeds." The purpose was to determine what different weed killers are doing to the soil. Farmers and people taking care of their lawns want their soil to be full of nutrients and support their crops or grass so knowing what weed killers are doing to the soil is important. The hypothesis was if Makaze, BioAdvanced Lawn Weed and Crabgrass Killer, and a natural mixture of weedkiller is being poured on three different dandelion's then Makaze will kill the weed faster, but will be more harmful to the soil. This is because it contains glyphosate which is more harmful than other herbicide ingredients. In this experiment, dandelions were planted and sprayed with the three different weed killers. The soil was tested for organic matter, nitrogen, and pH before and after the weed killers were applied. The Makaze weed killer killed the fragile dandelion first within hours of applying while the dandelions with natural and BioAdvanced weed killers were both fully dead after 24 hours. The Makaze weed killer also had the poorest soil health out of the 3 weed killers. The hypothesis was proven correct because the Makaze weed killer killed the weed the fastest, but was more harmful to the soil. This experiment showed how harmful glyphosate is to soil health and that there are better options available for weed killers.

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

Team Leader's Signature: _____

Date: _____

Team Member 1's Signature: _____

Date: _____

Team Member 2'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 your Finalist Verification/Permission Form. **A signed copy of this form must be included in your notebook.**