

Team Leader's Name: Joshua Wells

School and City: Weldon Valley School, Weldona Colorado

Team Leader's Signature:

Team Member 1's Signature: 7/9

Team Member 2's Signature:____

Team Member 1: Zander Braun

Sponsor's Name: Krista M. Dunn

2024 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.

Team Member 2:

Title of Project: Plant Warfare: Investigating the Mechanisms of Plant Allelopathy on Agriculture Crops

Category: Plant Sciences (PLNT)	Division: Senior (9th - 12th grades)
Abstract (250 words or less):	
on germination of common crops: wh	o test allelopathic dilutions from Kentucky BlueGrass and Brohm seed eat, barley, and oats. We hypothesized that oats would germinate ld have the most harmful effects on the seeds, and that Kentucky Blue ects on germination.
starting from 0% up to 100%. Five sectoral of 15 seeds for each percentage of	hes: 3 petri dishes for each dilution measured in increments of 10%, ds of wheat, barley or oats were put in their perspective dishes with a f solution giving 33 petri dishes for each type of seed. The seeds were was conducted twice to test the effect of a more potent dilution.
did have a negative impact on germin	othesis with the Kentucky BlueGrass seed in that the higher solution ation. The Brohm seed had the opposite effect. Wheat seed grew the nation growth. Kentucky grass seed had the most potent allelopathic
natural herbicide or fertilizer. This wo	ore studies need to be conducted using Kentucky Bluegrass seed as a uld be a cheap method to naturally kill out weeds in crops. Plant bicides without causing serious environmental problems or posing a
We hereby certify that the above statement year's research. We also attest that the ab	ts are correct and the information provided in the Abstract is the result of one over properly reflects our own work.
MI	M1.116

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.

Date: