

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s)

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Project Number

J2219

Project Title

Kikuyu Grass Be Gone

Abstract

Objectives/Goals

The objective of this study is to see if any common household substances can control Kikuyu Grass in established lawns.

Methods/Materials

Constructed a temperature and lighting-controlled greenhouse. Planted 10 trays with sod grass and Kikuyu Grass. Allowed the Kikuyu grass to establish and then introduced different household substances and measured their effects on both the Kikuyu Grass and the sod grass.

Results

Salt and baking soda were found to have the best result controlling the Kikuyu Grass. These substances also did serious harm to the established lawn grass. Ran a recovery phase to see if the lawn grass would recover. During the recovery phase the lawn grass treated salt recovered and the Kikuyu Grass did not.

Conclusions/Discussion

The tray treated with salt did the best at controlling Kikuyu Grass while allowing the desirable lawn grass to recover. It is important to control Kikuyu Grass since it is an invasive species and causes harm to parks, golf courses, and crops. I'd like to continue exploring salt to control Kikuyu grass keeping in mind the overall impact of introducing salt to an environment.

Summary Statement

I used household substances to control Kikuyu Grass in established lawn grass.

Help Received

My dad helped me design my greenhouse. I built the greenhouse myself. I choose the household substances and conducted the experiments myself.