

CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s)
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Project Number

Project Title

Does Wi-Fi Make Plants Die?

Abstract

Objectives/Goals

The objective is to study the growth of wheatgrass seeds in 2 environments. The 1st environment is next to a Wi-Fi router. The 2nd environment is away from a Wi-Fi router A negative of positive impact on plant growth in the Wi-Fi environment may suggest a negative or positive impact on human health.

Methods/Materials

Materials: containers, bowls, plates, plastic wrap, potting soil, wheatgrass seeds water, strainer, pitcher, tablespoon, measuring cup, ruler, thermometer, Wi-Fi touter, paper, marker, camera, notebook, pencil

Methods: 1) Sprout the wheatgrass seeds 2) Plant one tablespeon of spouted seeds in each container 3) Give each container ½ cup of water 4) Place 4 containers next to a Wi Exrouter and 4 containers away from the Wi-Fi router. All containers are placed 65 inches from the ground with a similar amount of sunlight and temperature. 5) Water each container dail with ½ sup of water 6) For 10 days, measure the height, number of sprouts, and wheatgrass color 7) Perford data and take photos daily 8) I determined it would be helpful to measure the room temperature and started measuring the room temperature on the 4th day.

Results

- -The sprouts growing next to the WifFi were 20 to 25 mm taker than the sprouts away from the Wi-Fi.
- -The number of spouts growing next to the Wi-Fi was 100 to 180 spouts greater per container than the number sprouts growing away from the Wi-Fi.
- -Both sets of sprouts turned from white to light green to darker green. The spouts growing next to the Wi-Fi grew darker sooner over the 10 days.
- -After the 3rd day, I noticed the sprouts next to the Wi-Fi were growing better. I therefore decided to measure the room temperature. The room temperature was one to two degrees higher in the area with the Wi-Fi router.

Conclusions/Discussion

The results did not support my hypothesis because the sprouts next to the Wi-Fi router grew taller, thicker, and darker during the 10-day measurement period. I believe more research should be done regarding Wi-Fi routers and radiation to protect all living things.

Summary Statement

The point of this project is to determine if Wi-Fi radiation has a positive or negative impact on plant growth.

Help Received

My mom helped purchase the materials and gave guidance during the measurement phase. My dad taught me how to use Excel to great graphs from spreadsheets.

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