

ISEF Sample Abstract & Certification

Plan, Plant, Save

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Category

Pick one only—
Mark an “X”
in box at right

- Animal Sciences
- Behavioral & Social Sciences
- Biochemistry
- Biomedical & Health Sciences
- Biomedical Engineering
- Cellular & Molecular Biology
- Chemistry
- Computational Biology and Bioinformatics
- Earth & Environmental Sciences
- Embedded Systems
- Energy: Sustainable Materials and Design
- Engineering Technology: Statics and Dynamics
- Environmental Engineering
- Materials Science
- Mathematics
- Microbiology
- Physics and Astronomy
- Plant Sciences
- Robotics & Intelligent Machines
- Systems Software
- Translational Medical Science

This study is related to aquaponics. My project consists of growing food using different methods of growing like aquaponics vs regular farming. This is important because if people can figure out a way to grow food even in the winter then it can save lives. Some people are starving and dying of hunger. Those people need lots of healthy food to eat like vegetables which you can grow with aquaponics. Aquaponics is significantly faster than regular growing methods meaning people who are very hungry don't have to wait months for food like when you are growing food with regular dirt farming methods. Not to mention aquaponics is a lot easier. The objective of this study was to see whether or not aquaponics are faster and more efficient growing methods than regular dirt farming methods. Aquaponic studies show hydroponics/aquaponic was 40-50 percent faster than regular farming methods (www.vhhydroponics.com). My hypothesis/research objective is that if aquaponics was faster and more efficient than regular growing methods then I would have a higher yield of crops and the crops would grow faster.

1. As a part of this research project, the student directly handled, manipulated, or interacted with (check all that apply):
 - human participants potentially hazardous biological agents
 - vertebrate animals microorganisms rDNA tissue

2. This abstract describes only procedures performed by me/us, reflects my/our own independent research, and represents one year's work only.
 - yes no

3. I/We worked or used equipment in a regulated research institution or industrial setting.
 - yes no

4. This project is a continuation of previous research.
 - yes no

5. My display board includes non-published photographs/visual depictions of humans (other than myself)
 - yes no

6. I/We hereby certify that the abstract and responses to the above statements are correct and properly reflect my/our own work.
 - yes no

