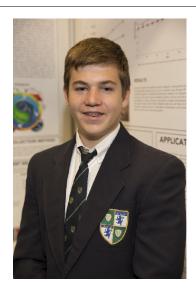




CWSF 2016 - Montreal, Quebec



Bjorn Svorkdal

Barrel-ponics: Is it an improvement over traditional farming?

Challenge: Resources
Category: Intermediate
Region: Vancouver Island
City: Saanichton, BC

School: Glenlyon Norfolk School

Abstract: For my science fair project I tested an barrel-style aquaponics system that

uses ideas from hydroponics and aquaculture to grow food. Aquaponics uses fish waste and ammonium that is cycled through the system and processed by nitrifying bacteria to be used as plant nutrients. In my project I tested the height of lettuce and the weight of wheat grass in both systems.

Biography

I was inspired to do my aquaponics project when visiting Sweden in 2013. Our family friends had just heard about aquaponics and this inspired me to investigate this idea further. I plan to do further research and see how I can improve the pre-existing system by making it an easy put together system and adding a place with surface area for bacteria to grow on. This project was a hard project and can be done if your willing and eager to put in the time. I also participate in competitive weightlifting, I have also participated in 4H poultry and competitive rowing.

Awards	Value
Excellence Award - Intermediate - Bronze Medal	
Sponsor: Youth Science Canada	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$1 000



