

CWSF 2005 - Vancouver, British Columbia



Tye Minion

Achieving the Best Possible Lettuce Growth in a Cold Water Recirculating Aquaponics System

Division: Biotechnology

Category: Intermediate

Region: Central Alberta

City: Innisfail, AB

School: Innisfail Junior Senior High School

Abstract: In aquaponics the macronutrients (nitrogen, phosphorus and potassium) and micronutrients (boron, copper, iron, etc.) plants use come from fish food. The results of three experiments indicate the limiting factor for plant growth in an aquaponics system is probably a micronutrient. This has implications for commercialization of aquaponics compared to hydroponics.

Awards	Value
The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario	\$1 500
Silver Medal - Biotechnology & Pharmaceutical Sciences Intermediate Sponsor: Rx&D Health Research Foundation	\$700
Total	\$2 200