



## CWSF 2011 - Toronto, Ontario



My name is Josie Mielhausen and I am a grade 10 student at Bruce Peninsula District School. I live in Lion's Head Ontario, which is part of the Niagara Escarpment surrounded by the waters of Georgian Bay and Lake Huron. I live with my family on a beef farm. I represent my school by competing in cross-country running, badminton, golf, volleyball, tennis and Science and Technology fairs. This is my fourth Canada-Wide Science Fair competition.

**Biography** 

## Josie Mielhausen

**Phyto Filter** 

Challenge: Innovation
Category: Intermediate
Region: Bluewater

City: Lion's Head, ON

**School:** Bruce Peninsula District S.S. & E.S.

**Abstract:** Water quality impairment due to nutrient enrichment from agricultural

activities is a worldwide concern. Phytoremediation technology using aquatic plants is increasingly applied to remediate eutrophic waters. Native

and non-native aquatic plant species were tested as potential

phyto-removal agents for Phosphates. An aquatic plant containment system

was developed and evaluated for ease of construction, deployment, maneuverability, and removal. Questionnaires were used to determine

nutrient management strategies.

Awards	Value
Excellence Award - Intermediate - Silver Medal	\$700
Sponsor: Youth Science Canada	
The University of Western Ontario Scholarship	\$2 000
Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Total	\$2 700



