

## CWSF 2009 - Winnipeg, Manitoba



### Oliver Journal

#### Soil Amending Properties of Charcoal

**Division:** International / None

**Category:** Intermediate

**Region:** Vancouver Island

**City:** Duncan, BC

**School:** Frances Kelsey Secondary

**Abstract:** This experiment tested the ability of charcoal to retain and release nutrients and water, compared to gravel of the same approximate size as the control. Nutrients and water were passed through home-constructed cartridges of charcoal and of gravel. A colorimeter was used to determine the concentration of the nutrients retained and subsequently released, and charcoal was found to have superior retention and slower release.

#### Biography

Oliver Journal is a grade 10 student at Frances Kelsey Secondary School on Vancouver Island, BC. He plays violin and piano, and sings in a choir, and enjoys soccer, fencing, juggling, and riding his bike. He is interested in politics, drama, debating and enjoys his self-paced school. He hopes to study law, science and music at university, to pursue a career in teaching and politics. He has done lots of Science Fair projects over the years, winning his division several times and is very happy to be on the BC team at the Canada-Wide Fair for the second time!

#### Awards

#### Value

The University of Western Ontario Scholarship	\$1 500
Silver Medallist - \$1500 Entrance Scholarship	
Sponsor: University of Western Ontario	
Silver Medal - Physical & Mathematical Sciences - Intermediate	\$700
Sponsor: Encana Corporation	
Total	\$2 200

