

## CWSF 2012 - Charlottetown, Prince Edward Island



### Olivia Giffen

#### E. Coli Be Gone

**Challenge:** Health

**Category:** Intermediate

**Region:** Chignecto West

**City:** West St. Andrews, NS

**School:** South Colchester Academy

**Abstract:** The project objective was to find an essential oil in which sprout seeds could be conditioned that in turn would inhibit E. coli. Disc diffusion was used to test 3 oils. Oil of oregano was found to be the most inhibitory, working equally well at 100% and 10% concentrations. The effect of conditioning sprout seeds with oil of oregano was determined in a growth trial.

#### Biography

I am a grade 10 student at South Colchester Academy, in Brookfield Nova Scotia. There I have honors with distinction and am actively involved. I enjoy many extra circular activities such as track and field, cross-country and volleyball. I'm also involved in leadership organizations such as NSSSA and Global Vision. I show horses competitively on the gold circuit in the Maritimes. My inspiration for this project came from concern for my health, and that of others, due to food spoilage. I plan to further my education in Science and eventually become an Optometrist.