

# CWSF 2019 - Fredericton, New Brunswick



## Jannah McCallum

### Weeding Out the Alternatives: Is Cinnamon an Herbicide?

**Challenge:** Environment

**Category:** Junior

**Region:** Prince Edward Island

**City:** Charlottetown, PE

**School:** Queen Charlotte Intermediate School

**Abstract:** I discovered that cinnamon could be used as an herbicide, potentially killing harmful weeds that are related to carrots, the main study of my project, such as Giant Hogweed and Cow Parsnip. This is much better for the environment than the herbicides that are being banned and are being used currently, which, for the most part are chemicals and poisons.

#### Biography

My name is Jannah McCallum and I go to Queen Charlotte Intermediate School. I'm a year ahead in school, so that puts me in quite the situation. I'm always the youngest in my class, leaving me at a disadvantage, which causes me to be very competitive. I started science fair when I was in grade four, starting with just a simple idea, 'What keeps Carrots fresh in storage.' I then discovered that cinnamon could have anti-fungal properties, which I used in my next years project. The cinnamon changed the way the mold grew. So in grade 6 I grew carrots with cinnamon as a pre-treatment and discovered that cinnamon stunted the growth of carrots, thus the idea for this year's project. I plan to grow this idea into a proper tool and try to see if it would work in the wild, and on plants that are actually grown and not just germination. I think that if you are interested in science, the fair is a great way to start. You can ease into it, and see what interests you. I wasn't too sold on the fair in 4th grade, but now I love it.

#### Awards

#### Value

Excellence Award - Junior - Silver Medal Sponsor: Youth Science Canada	
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
Total	\$2 000