

# CWSF 2019 - Fredericton, New Brunswick



## Emily Goodson, Nikki van Schaik

### Comparing the Effects of Aerobically Decomposed Waste on Plant Development

**Challenge:** Environment

**Category:** Intermediate

**Region:** Simcoe County

**City:** Beeton, ON, Thornton, ON

**School:** Banting Memorial H.S., Bear Creek S.S.

**Abstract:** This project explores the effects of composts on plant productivity. Experimentation was conducted to determine which method of composting benefits plants most: vermicompost, rolling compost or box compost. The purpose of this project was to discover a method to improve the efficiency of agriculture while minimizing environmental impacts. Implementing compost reduces food waste, reduces carbon emissions, helps meet global food demand and improves agricultural efficiency.

#### Biographies

Emily - My name is Emily Goodson, I'm a grade nine attending Banting Memorial High School, and I've had a passion for science since I was little. I have been attending our Regional Science Fair since grade four, and Canada Wide Science Fair since grade seven. Every year I strive to find a way that I can make a difference in the world, and focus my efforts on environmental sciences, and finding innovative ways to combat the environmental crises of today. I enjoy being outdoors, learning about sciences, and sketching. I enjoy volunteering at a wildlife rehabilitation centre in my town and helping to make a difference in the lives of the animals. I

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Nikki - My name is Nikki van Schaik, and I am a grade 9 student attending Bear Creek Secondary School in Barrie, Ontario. I love to be outdoors camping, canoeing, swimming, playing volleyball, skiing, and doing track and field. I do competitive trampoline, and I am currently working on my lifesaving certifications as well as volunteering in aquatics at the YMCA. I first discovered my passion for environmental sciences after taking part in the Regional Science Fair in grade 5. Ever since, I have been participating in the science fair, returning with different innovative environmental projects every year. I attended CWSF last year in Ottawa, and I was ...

#### Awards

#### Value

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|---|---------|
| Excellence Award - Intermediate - Bronze Medal<br>Sponsor: Youth Science Canada                                 |         |
| Western University Scholarship<br>Bronze Medallist - \$1000 Entrance Scholarship<br>Sponsor: Western University | \$1 000 |
| Total   | \$1 000 |