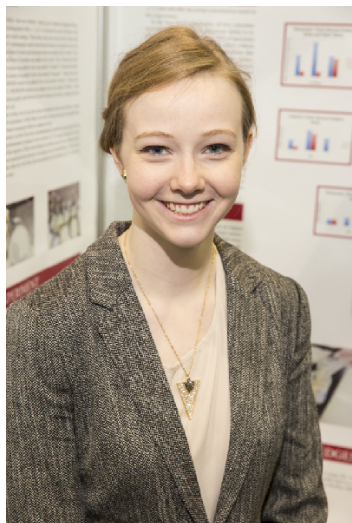


CWSF 2015 - Fredericton, New Brunswick



Megan Thomson

Concentrating on Neonicotinoids

Challenge: Environment

Category: Senior

Region: Bluewater

City: Lion's Head, ON

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

Abstract: Scientists debate the role of neonicotinoids in the population decline of pollinators. This project examined the effects of five concentrations of neonicotinoids on *Drosophila* and related the results to pollinators. The thirty-three trials conducted for this investigation showed that as the concentration of neonicotinoid increased, the success rates of *Drosophila*'s food seeking behaviour were consistently less than 75%, clearly confirming the impairment of the specimens.

Biography

My name is Megan Thomson. I am a grade 12 student at Bruce Peninsula District School in Lion's Head, Ontario. I live on the edge of Georgian Bay just outside of Lion's Head, which is a part of the Niagara Escarpment and located in an area designated as an UNESCO World Biosphere Reserve. I am involved with my school in athletics, sciences, and drama, as well as representing my school as a Student Senator for the school board. I am attending the University of Waterloo next year for Environmental Science. This is my first Canada Wide Science Fair. I was inspired to do this project by the recent popularity of neonicotinoids in the media and by my interest in the environment. I hope to continue working with this project as I move into my post-secondary career. My advice to other students thinking about doing a science fair project is to be genuinely interested in your topic, and to embrace the opportunities that arise.

Awards

Value

Excellence Award - Senior - Silver Medal Sponsor: Youth Science Canada	
Dalhousie University Faculty of Science Entrance Scholarship Senior Silver Medallist - \$2500 Entrance Scholarship Sponsor: Dalhousie University, Faculty of Science	\$2 500
UBC Science (Vancouver) Entrance Award Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver)	\$2 000
University of New Brunswick Canada-Wide Science Fair Scholarship Silver Medallist - \$2500 Entrance Scholarship Sponsor: University of New Brunswick	\$2 500
University of Ottawa Entrance Scholarship Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: University of Ottawa	\$2 000
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
Total	\$11 000