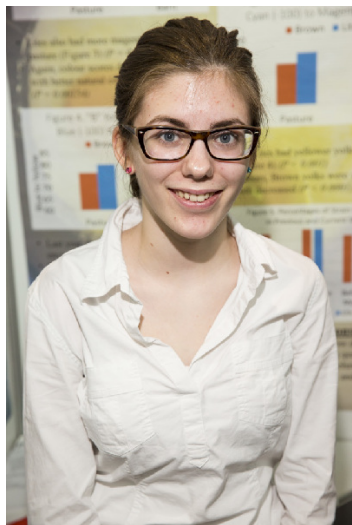


## CWSF 2015 - Fredericton, New Brunswick



### Maria Duynisveld

#### Eggs-aming the Connection Between Foraging Behavior and Egg Characteristics

**Challenge:** Resources

**Category:** Junior

**Region:** Chignecto East

**City:** Wallace, NS

**School:** Pugwash District High School

**Abstract:** Does laying hen foraging behavior affect egg characteristics on pasture? Foraging behavior and egg traits from two laying hen strains on pasture and indoors were studied. Different strains' albumens reacted differently to environments. Foraging behaviors and environment affected yolk colour. Hen behaviors changed over a year. This shows a strain-diet interaction with albumens, learned foraging behavior, and that eggs are affected by grazing behavior.

#### Biography

My name is Maria Duynisveld. I am 14 years old and a Grade 8 student at Pugwash District High School in Pugwash, Nova Scotia. I am an editor on the Yearbook Committee, a member of 4-H, and am on the volleyball, basketball, cross-country running, curling, and track and field teams. I run on school and club track teams, and participate in 5Ks on my own. I enjoy reading and spending time on my family's farm. I also like to write, poetry especially. This year, I performed an experiment on the effects of laying hen foraging on egg characteristics. The previous year, I observed laying hen behaviour for differences between breeds, but I came short of making the Provincial team. I drew on the experience of my previous project for this year's, and hope to continue on this subject.

#### Awards

#### Value

4-H Canada Award - Junior Sponsor: 4-H Canada	\$500
Excellence Award - Junior - Gold Medal Sponsor: Youth Science Canada	\$250
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
<b>Total</b>	<b>\$4 750</b>