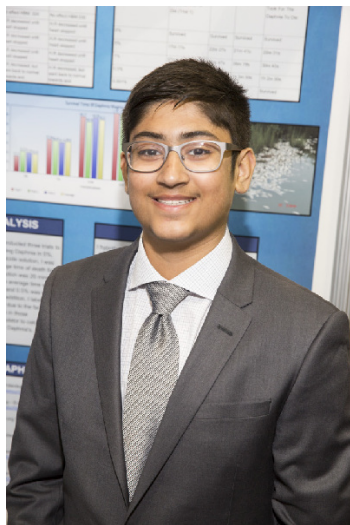


## CWSF 2015 - Fredericton, New Brunswick



### Muhammad Naqvi

#### A Huge Impact Due To A Small Quantity!

**Challenge:** Environment

**Category:** Intermediate

**Region:** Prince Edward Island

**City:** Summerside, PE

**School:** Athena Consolidated School

**Abstract:** This project looks into how the run-off from potato fungicide affects the survival rate of *Daphnia Magna*, using 5% fungicide contaminated spring water, 1%, 0.5% and 0.001%. The *Daphnia* were tested using a microscope to observe their reaction. My hypothesis was that the survival rate of a *Daphnia* will decrease as the percent of fungicide added to spring water increases. My results support my hypothesis.

#### Biography

There have been numerous discussions in the media regarding chemical runoff from crop fields entering the waters and affecting the aquatic life. In a fairly recent incident in O'Leary, Prince Edward Island, there was a runoff of fungicide that entered the water killing 1000s of fish. It was an unfortunate event and I wondered if it could have been prevented. I chose to conduct my fungicide experiment on *Daphnia Magna* for its ease of availability, easy to culture and observe. Also, because the heart and other organs are visible under a microscope. In the future, it will be very interesting to come up with a homemade fungicide which is eco-friendly to the aquatic life, but also effective towards reducing/preventing the growth of fungus and other bacteria. If not that, I would a prototype which filters the fungicide in the soil run-off, leaving the toxic waste behind. I'd advise all students who are interested in doing a science fair project to pick a topic that is both tough and fun to do. If you decide to pick something hard that is not something you enjoy, it's very difficult to do rather than if you would have picked something that interests you.

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