

## CWSF 2014 - Windsor, Ontario



### Josie Short, Emma Nicholas

#### Pump It!

**Challenge:** Innovation

**Category:** Intermediate

**Region:** Prairie Valley

**City:** Milestone, SK

**School:** Milestone School

**Abstract:** Pump It was used to automatically dispense Ivermectin, a substance used for pest control on cattle, horses, dogs, and sheep. The pump was originally used as a chemical dosing pump and a timer was added to make dispensing more accurate. It was tested with success on yearling bulls with water and tested on yearling heifers with Ivermectin.

#### Biographies

Josie - I am a grade 10 student at Milestone High School. I have attended to Milestone for my entire life. I have lived outside of Milestone on a farm my whole life as well, and have only recently sold my herd of Maine-Anjou cattle. I now frequently help a local bison rancher. After high school I would like to attend university to study my Degree in Agriculture: Animal Science. For our project we got the inspiration from our parents and the farm. It appealed to us because we can relate to the project through cattle and bison. In the future we would like to connect a remote to our timer. We would also like to connect the pump to a scale so the scale ...

Emma - My name is Emma Nicholas I'm in grade 9 and go to Milestone High School. I have lived on a cattle ranch my entire life, and have purebred Hereford and Gelbvieh cattle. I have been in the 4-H beef club for 9 years. I play volleyball with and outside of the school, I also play badminton and participate in track. When I graduate from High School, I plan to attend the Universtiy of Saskatchewan and receive a Bachelor of Science Degree from the College of Agriculture. We got the inspiration for our project from living on a farm and working with cattle and bison. We would like to expand our project and make it so you can have the animal step on the...

#### Awards

#### Value

Excellence Award - Intermediate - Silver Medal Sponsor: Youth Science Canada	\$300
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
Total	\$2 300