

## CWSF 2013 - Lethbridge, Alberta



### Emma Nicholas

#### Expected Progeny Differences

**Challenge:** Discovery

**Category:** Junior

**Region:** Prairie Valley

**City:** Milestone, SK

**School:** Milestone School

**Abstract:** This project involves Expected Progeny Differences (EPD's) in cattle and how these numbers can affect the breeding decisions producers make. This project also examines the polled and horned genes of the cattle involved in this experiment. This research involves a personal and hands on approach to the basic understanding of cattle genetics.

#### Biography

My name is Emma Nicholas. I am 13 years old and live on a cattle ranch outside of Milestone, SK. I attend Milestone School (K-12). I have been a member of the Milestone Figure Skating Club for 10 years. I participate in many school extracurricular activities such as volleyball, curling, badminton, and track. I am also on our school SLC as head of canteen. I have been the Milestone 4-H Beef Club for 7 years. When I graduate high school I plan on attending the University of Saskatchewan and receiving my Bachelor of Agriculture and Animal Science and have a job somewhere within that. At my Regional Science Fair I won runner up Special Achievement award by Sask Energy. I have also won Member of the Year in our 4-H club. I have made the honour roll for the past 3 years. I got the inspiration for my project just from living on a farm my whole life and being around cattle. My further investigations would be to go more in depth with the horned and polled genetics. Some advice; know your project, be passionate about what you're telling the judges and be confident.

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