

## CWSF 2011 - Toronto, Ontario



### Claire Bertens, Brooklyn McDonald

#### On Farm Algae Production

**Challenge:** Environment

**Category:** Junior

**Region:** Central Alberta

**City:** Olds, AB, Olds , AB

**School:** Deer Meadow School

**Abstract:** Different concentrations of dairy manure were tested to determine what is the best blend when producing algae for fuel and feed? We found out that 2% manure was the best blend because the cell count was highest, and the algae were able to use up all of the nutrients. We can make enough biodiesel and feed to support our farm.

#### Biographies

Claire - I am a grade seven student at Deer Meadow School in Olds Alberta. Some of my hobbies are horse riding, soccer, volleyball, running, working on my dairy farm, I am in beef 4-H, I ski and sled in the winter, I play the piano and the flute, I love to water-ski, and tubing with friends, camping, and going on holidays with friends. I love to Jumping and dressage with my horse Moochy, I also enjoy going to Pony club and going to Horse Camps. My career plans for the future are to be a vet or a doctor. Brooklyn and I have enjoyed science fair for four years. In the past Brooklyn and I have done studies on wetlands, biodiesel, and pasteurization. This i...

Brooklyn - I am a grade 7 student from Deer Meadow School in Olds Alberta. I enjoy riding my horse Calvin, and competing in Dressage, Stadium and Cross country shows and camps. I also really enjoy going to Pony Club with all my friends. In the winter I like to snowboard and sled. I like to play the clarinet in the school band, and I play soccer and volleyball too. My career plans for the future are to either be a doctor or a vet. I have a passion for science and my partner Claire and I have been in science fair together for four years now. Going to the Canada Wide Science fair will be a really awesome experience and it will be fantastic to view all the ...

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