

*Area Growers Seminars*  
*2009*



Jan. 27<sup>th</sup> - Southern Minnesota Growers Seminar, Willmar Holiday Inn

Feb. 3<sup>rd</sup> - Minn-Dak Growers Seminar Wahpeton Eagles Club

Feb. 5<sup>th</sup> - Fargo Growers Seminar Fargo Holiday Inn

Feb. 10<sup>th</sup> - Grand Forks Growers Seminar, Alerus Center

Feb. 12<sup>th</sup> - Grafton Growers Seminar Grafton Parish Center

March 18<sup>th</sup> & 19<sup>th</sup>  
International Sugarbeet Institute  
Fargodome, Fargo, ND



*39<sup>th</sup> Annual*  
*Sugarbeet Research*  
*Reporting Session*



*January 13, 2009*  
*Fargo Holiday Inn*



- (\*) Author presenting the paper.
- (\*\*) Partially funded by the Sugarbeet Research and Education Board of Minnesota and North Dakota.

*CEU Credits will be awarded to CCA holders*

*Sponsored by: NDSU, Univ. of MN, and Sugarbeet Research & Education Board of MN & ND*

**Speakers should use 12 to 13 minutes for presentations and leave 2 to 3 minutes for questions.**

**Morning Chair:** Jeff Stachler, Agronomist, Dept. of Plant Science, NDSU / Univ. of MN., Fargo, ND

8:00-8:30 \*\*Coffee

8:30-8:45 \*\* **Granular insecticides and seed treatments for springtail management in sugarbeet.** Robert J. Dregseth\*, Mark A. Boetel, and Allen J. Schroeder; Entomology Dept., NDSU, Fargo, ND

8:45-9:00 \*\* **Seed treatments and postemergence insecticides to control sugarbeet root maggot.** Mark A. Boetel\*, Robert J. Dregseth, and Allen J. Schroeder; Entomology Department, NDSU, Fargo, ND

9:00-9:15 **Strip trial evaluation of Poncho Beta insecticide in the Red River Valley of MN and ND.** Alan Cattanaach<sup>1</sup>, Jeff Daniels<sup>2</sup>, Mark A. Boetel<sup>3</sup>, and Robert J. Dregseth<sup>3</sup>; <sup>1</sup>American Crystal Sugar Co; <sup>2</sup>Bayer CropSciences; <sup>3</sup>Entomology, NDSU

9:15-9:30 \*\* **Challenging current nitrogen recommendations: Sugarbeet response to nitrogen in different RRV locations and soils.** Albert L. Sims\*, NW Research and Outreach Center, Univ. of MN., Crookston, MN

9:30-9:45 \*\* **The effect of previous crop on sugarbeet yield and quality and soil N mineralization in Southern Minnesota.** John A. Lamb<sup>1</sup>, Albert Sims<sup>2</sup>, Mark Bredehoeft<sup>3</sup>, and Chris Dunsmore<sup>3</sup>; <sup>1</sup>Dept. of Soil, Water and Climate, Univ. of MN, St. Paul; <sup>2</sup>NW Research & Outreach Center, Univ. of MN, Crookston; <sup>3</sup>Southern MN Beet Sugar Coop., Renville, MN

9:45-10:00 **Starter type products for sugarbeet production.** Mark Bredehoeft\* and Chris Dunsmore; Southern Minnesota Beet Sugar Coop., Renville, MN

10:00-10:15 **BREAK**

10:15-10:30 **Campus strip-till results.** Dave Franzen; Soil Science Dept., NDSU, Fargo, ND

10:30-10:45 \*\* **Tillage research for sugarbeet and rotation crops.** Laura F. Overstreet\*; Soil Science Dept., NDSU, Fargo, ND

10:45-11:00 **Hyperspectral remote sensing for detection of Rhizoctonia Crown and Root Rot of sugarbeet.** Greg Reynolds<sup>1</sup>, Carol E. Windels<sup>1</sup>, Ian MacRae<sup>1</sup>, and Soizik Laquette<sup>2</sup>; <sup>1</sup>Univ. of MN, NW Research & Outreach Center, Crookston; <sup>2</sup>Univ. of ND., Dept. of Earth System Science and Policy, Grand Forks, ND

11:00-11:15 \*\* **Rhizoctonia crown and root rot on sugarbeet following corn.** Jason R. Brantner<sup>1</sup>, Albert L. Sims<sup>1</sup>, Carol E. Windels<sup>1</sup>, Mark Bredehoeft<sup>2</sup>, and Chris Dunsmore<sup>2</sup>; <sup>1</sup>NW Research & Outreach Center, Univ. of MN., Crookston; <sup>2</sup>Southern MN Beet Sugar Coop., Renville, MN

11:15-11:30 \*\* **Long-term effect of a single application of factory lime on Aphanomyces root rot and sugarbeet.** Carol E. Windels<sup>1</sup>, Jason R. Brantner<sup>1</sup>, Albert L. Sims<sup>1</sup>, and Carl A Bradley<sup>2</sup>; <sup>1</sup>Univ. of MN., NW Research & Outreach Center, Crookston; <sup>2</sup>Dept. of Crop Sciences, Univ. of Illinois, Urbana

11:30-11:45 **Interpreting fungicide trial data for controlling Cercospora Leaf Spot (CLS)-CLS control or CLS control, Rhizoctonia suppression and plant health (you be the judge).** Larry J. Smith\*, Head NW Research & Outreach Center, Univ. of MN., Crookston, MN

11:45-12:00 \*\* **Effect of temperature on Rhizoctonia disease development and fungicide efficacy in controlling Rhizoctonia root rot on sugarbeet.** Mohamed F. R. Khan<sup>1</sup>, Issa Qandah<sup>1</sup>, & Melvin D. Bolton<sup>2</sup>; <sup>1</sup>Department of Plant Pathology, NDSU, Fargo, ND and <sup>2</sup>USDA-ARS Northern Crop Sci. Lab., Fargo, ND

**12:00-1:00 UNSPONSORED LUNCH**

**Afternoon Chair:** Mohamed Khan, Extension Sugarbeet Specialist, Dept. of Plant Pathology, NDSU/Univ. of MN., Fargo, ND

1:00-1:15 \*\* **Development of BNYVV mutants is affected by type of resistance gene.** Charlie Rush\*; Texas A & M Experiment Station, Bushland, TX

1:15-1:30 \*\* **Weed control in sugarbeet.** Jeff Stachler\*, Agronomist, Dept. of Plant Sciences, NDSU and Univ. of MN., Fargo, ND

1:30-1:45 **Storage properties of frost-damaged roots.** Karen (Klotz) Fugate<sup>1</sup>, Larry Campbell<sup>1</sup>, and Larry Smith<sup>2</sup>; <sup>1</sup>USDA-ARS, Northern Crop Sci. Lab, Fargo; <sup>2</sup>NW Res. & Outreach Center, Univ. of MN., Crookston, MN.

1:45-2:00 \*\* **Effect of fungicides on sugarbeet yield, quality, and respiration rates.** Mohamed F. R. Khan, Aaron Carlson\*; Plant Pathology Dept., NDSU/Univ. of MN, Fargo, ND

2:00-2:15 \*\* **Managing Cercospora Leaf Spot with fungicides.** Mohamed F. R. Khan\*; Plant Pathology Dept., NDSU/Univ. of MN, Fargo, ND

2:15-2:30 \*\* **Enzymatic hydrolysis of sugarbeet pulp for cellulose isolation and ethanol production.** Scott W. Pryor\*, Rachel Rorick, and Nurum Nahar; Dept. of Ag & Biosystems Engineering, NDSU, Fargo, ND