Soils and Crops 2013, Poster Presentations

Effects of Plant Derived Smoke Solution on Seed Germination of Forages.
Y. Abu, Y. Bai and J. Romo

Addition of Lime and Gypsum to Ethiopian Soils to Enable Lentil Growth.
A. Adane and J. Schoenau

Fungal Endophytes from Saline Environments in Saskatchewan Confer Salt and Drought Tolerance to Crop Plants.
E. Cronin, Z. Boubakir and S. Kaminskyj

Effect of Replacing Corn Grain by Wheat-based Dried Distillers' Grains with Solubles Dietary Energy and Protein Value in Cattle.
D. Damiran, A. Jonker, M. Yari, S. Abeysekara, and P. Yu

Effects of Barley Based Diets with Different Rumen Degradable Protein Balance on Performance and Carcass Characteristic of Feedlot Steers.
D. Damiran, A. Jonker, M. Yari, S. Abeysekara, and P. Yu

Modeling AMF Distribution Associated with Environmental Factors and its Contribution to Plant P Uptake.
M. Dai, C. Hamel, H. Wang and Y. Gan

Measurements of Nitrous Oxide Emissions from Irrigated and Dryland Cropping Systems in Saskatchewan.
C. David, A. Mackay, R. Farrell, W. Helgason and R. Lemke

Comparative Germination of Cicer Milkvetch and Purple Prairie Clover Under Varying Temperature and Osmotic Pressure.
F. Gao, M. Schellenberg and M. Kehler

Large Scale Validation of an AM Fungal-Based Biofertilizer and its Management with Rhizobium for Bean production, in Central and Western Cuba.
C. Hamel, R. Rivera, A. Calderón, M. Nápoles, L. Ruiz and collaborators

Influence of Biochar Amendment on Greenhouse Gas Production in two Fertilized Prairie Soils.
R. Hangs, J. Schoenau and H. Ahmed

Spring Wheat Yield in the Semiarid Canadian Prairies: Effects of Precipitation Timing and Soil Texture Over Recent 30 years.
Y. He, Y. Wei, R. DePauw, B. Qian, R. Lemke, A. Singh, R. Cuthbert, B. McConkey and H. Wang

Soil Microbial Community Response to Buried Crop Residues is Site-Specific and Depends on Depth of Burial.
B. Helgason, E. Gregorich, H. Janzen, B. Ellert and R. Dick

Determining the Representative Sampling Size for Soil Testing in Direct Seeding Fields.
W. Hu, B. Si and J. Schoenau

Quantifying Nitrogen Fixation of Agroforestry Shrubs Species by the 15N Dilution and Natural Abundance Techniques Under the Greenhouse Condition.
G. Issah, A. Kimaro, D. Knight and J. Kort

Assessing Microbial Communities in Different Soils After Transplantation to a Common Location.
P. Katulanda, B. Helgason and F. Walley

Evaluation of a Closed-Path Fourier Transform Infra-Red (FTIR) Multi-Component Gas Analyzer for the Simultaneous Measurement of Nitrous Oxide, Carbon Dioxide and Methane.
F. Krijnen, D. Richman, R. Lemke and R. Farrell

100 years of Farming: The Effects of Fallow and Nitrogen Fertilizer on Soil Microbial Abundance and Community Structure in a Wheat System.
S. Kuzmicz, B. Helgason and J. Germida

Linkage Analysis of Seed Color Loci in Flax (*Linum usitatissimum* L.).
K. Lindenback, H. Booker and L. Young

The Influence of Zinc Fertilization on Lentil Seed Yield and Zinc Concentration in Ten Saskatchewan Soils.
M. Maqsood, J. Schoenau and A. Vandenberg

Spatial and Statistical Variability of Soil Properties for Rields in BMPs in the Steppler Watershed, South Tobacco Creek, Research Design and Preliminary Results.
A. Moulin, M. Bock, J. Yarotski and X. Geng

Priming of Soil Microbial Communities for N_2O Emissions in a Long-Term Manure Agricultural System with a Change in Nitrogen Source.
R. Pearce, R. Lemke, B. Helgason and R. Farrell

First Year Results of 12 Annual Species Polyculture.
I. Piche and M. Schellenberg

Effect of Forage Legumes on Phosphorus Availability to a Following Canola Crop.
M. Rehmut, J. Schoenau and P. Jefferson

Are Two Cultivars Better than One? Performance of Leafed and Semi-Leafless Pea Mixtures Under Weedy Conditions.
L. Syrovy and S. Shirtliffe

Bioavailability and Dissipation of Pyroxasulfone Herbicide in Saskatchewan Soils.
A. Szmigielski, J. Schoenau and E. Johnson

Integrated Disease Management of Leaf Spots and Crown Rust of Oats.
J. Taylor, C. Kirkham, J. Woytowich, T. Dament, H.R. Kutcher and G. Peng

Nutritive Value of Canola Meal (yellow and brown) and Presscake (brown) in Relation to Processing Conditions Induced Changes of Their Protein Molecular Structure.
K. Theodoridou and P. Yu

Variable Rate Irrigation - The Next Big Thing in Irrigated Agriculture?
D. Tomasiewicz, E. Derdall, L. Hingley and B. Vestre

Response of *Brassica napus, B. rapa,* and *B. juncea* Seedling Emergence to Seed-Row Placed Liquid Ammonium Thiosulfate and Ammonium Polyphosphate.
R. Urton, T. King, J. Schoenau, and C. Grant

Can Amendment with Biochar Improve Crop Growth on Salt Affected Soils?
B. Weiseth and J. Schoenau

Steps Towards Understanding Variation for Water and Nitrogen Uptake and Use in *Brassica napus.*
H. Zakeri, L. Ehman, T. Wambach, I. Parkin, S. Robinson, E. Johnson, Y. Gan, R. Datla, J. Schoenau, R. Bueckert, S. Vail