

Great Plains Soil Fertility Conference

March 4-5, 2008

Web Page - <http://www.ipni.net/gpsfc>

DoubleTree Hotel

3203 Quebec Street

Denver, CO 80207

Phone: (303) 321-3333

Great Plains Block - \$99 single/\$109 double

Registration Fee (includes breakfasts, luncheon, refreshment breaks and proceedings):

Before Feb.20\$ 130

After Feb 20\$ 150

Student.....\$ 50

Extra Proceedings (w/S&H)...\$ 25

Tuesday, March 4

8:00 am – 5:00 pm

Biofuel Crops and Nutrients

Biofuels and Nutrient Management, Paul Fixen

Biofuels and Soil Carbon, Jerry Hatfield

Production and Fertilization of Alternative Biofuel

Crops (Grain Sorghum), Kevin Bronson

Response of Camelina to Nitrogen, Phosphorus, and Sulfur, Grant Jackson

Winter Canola Fertility for the East-central Great Plains, Vic Martin, Bill Heer, David Mengel, Chad Godsey

Greenhouse Gases & Atmospheric Depositions

Nitrogen Fertilization Effects on Nitrous Oxide Emissions from Irrigated Cropping Systems, Ardell Halvorson, Steve Del Grosso, Curtis Reule

Achieving Economic and Greenhouse Gas Goals through Tillage and N Management, David Archer, Ardell Halvorson

Impacts of Cropping Intensity on Soil C and Net Greenhouse Gas Fluxes for Dryland Cropping in Northeastern Colorado, S.J. Del Grosso, L.A. Sherrod, A.R. Mosier, G.A Peterson, L.R. Ahuja, N. Hansen

Agriculture's Contribution to Nitrogen Deposition in Rocky Mountain National Park, J.G. Davis, N.M. Marcillac, J.S. Baron

N Management

Strip Tillage for Sugarbeet and its Implications for N Fertilizer Management, Bart Stevens, Bill Iverson, Bob Evans, Jay Jabro, James Kim

Strip-till Versus Broadcast N Application for Sugar Beet and Dry Beans, Gary Hergert

Management of Enhanced Efficiency Nitrogen Fertilizers, Barney Gordon

Update on Using Active Sensors to Manage N Application on Corn, J. Shanahan, J.Schepers, R. Ferguson

Calibration of the Nitrate Soil Test for Malting

Barley for Western ND, R.J. Goos, B.E. Johnson, et al

Wednesday, March 5

8:00 am – 12:00 noon

Soil Fertility and Cropping Systems

Long-term Phosphorus Studies in Western Canada, Rigas Karamanos

Tillage, Cropping Sequence, and Nitrogen Fertilization Effects on Dryland Soil Nitrogen and Malt Barley Yield, Upendra Sainju

Skip Row Grain Sorghum, Richard Ferguson

Use of Skip-row Planting as a Strategy for Drought Mitigation in the West Central Great Plains, Merle Vigil, David Nielsen, Francisco Calderon, David Poss

A Comparison of Dryland Grasspea (*Lathyrus sativus* L.) and Admiral Pea (*Pisum sativum* L.) Grown under Different Row Spacings, F.J. Calderón, D.C. Nielsen, M.F. Vigil, J.G. Benjamin, M. Mikha

Nutrient Management

Impact of Grid Point Sampling Intensity on Phosphorus and Potassium Uncertainty, Robert Miller

Impact of Growth Hormones on Nutrient Excretion, Shawn Archibeque, Thomas Borch, Jessica Davis

A Decision Aid for Fertilizer Placement with Seed, Ron Gelderman

Tifton 85 Bermudagrass Response to Potassium, Chloride, and Sulfur at Two Nitrogen Rates, V.A. Haby, W.M. Stewart, A.T. Leonard

Inclusion of Weather and Soil Data in N Yield Response Curves and Economic Models, Clain Jones, Duane Griffith

Poster Presentations

Meeting Demand with a New Interdisciplinary Program in Organic Agriculture. A.L. Elliott, F.H. Stonaker, J.G. Davis, H.G. Hughes

Nitrogen Mineralization and Forage Quality Resulting from Manure, Compost and Urea Topdressed on an Irrigated Grass Pasture, Katherine C. Doesken, Jessica G. Davis, Joe Brummer, Terry Engle

Nitrogen Mineralization Rate across Productivity Level Management Zones, M.E. Moshia, R. Khosla, D.G. Westfall, J.G. Davis, R. Reich

Microbial Communities and C Cycling under Deficit-Irrigated Maize, Mary Stromberger, Kiera Coffin, Neil Hansen

The Effectiveness of Recovered Phosphates as Fertilizer in Slightly Acidic and Alkaline Soil Conditions, Michael S. Massey, Jessica G. Davis, Ron E. Sheffield

Land Application of Anaerobically Digested Biosolids in USEPA Region 8, Robert Brobst, William Kennedy, Michael Massey

Validation of the Pre-sidedress Nitrate Test for Poultry Manured Corn Fields, T.A. Bauder, D. Quarles, R.J. Pearson

Evaluating Three Hand-Held Remote NDVI Sensors for Nitrogen Management in Irrigated Corn, T.M. Shaver, D.G. Westfall, R. Khosla

Affect of Tillage Intensity on Wheat and Grain Sorghum, Alan Schlegel, Loyd Stone, Troy Dumler, Curtis Thompson

Nutrient Uptake and Manganese Fertilization Response in Conventional and Glyphosate-resistant Isogenetic Soybean Lines, Jami Loecker, Nathan Nelson, Barney Gordon, Larry Maddox, Keith Janssen

Historical Yield Performance in Western Kansas, John Holman, Curtis Thompson, Alan Schlegel

Dryland Corn Yield and Water use Affected by Seeding Rate and Row Configuration, Brett Allen

Tillage and Crop Rotation Effects on Nitrogen Availability and Use Efficiency, Chengci Chen, Clain Jones

Nitrogen Recalibration for Wheat in North Dakota, D.W. Franzen, G. Endres, K. McKay, J. Lukach, R. Ashley

Wheat Roots and Residue Effects on Soil Aggregation and Carbon, Brian Wienhold, Wally Wilhelm

Relationships between Soil CO₂, Water Soluble Organic C and N, and Potential N Mineralization, Rick Haney, Will Brinton

Copper and Zinc Fertilization of Wheat, Brian Olson, Dale Leikam

The Use of the Active Sensors to Manage N Fertilization of Sorghum in Kansas, Drew Tucker, David Mengel

Effect of P rate and Placement on Crop Yield in Strip-till Cropping Systems, Kent Martin, David Mengel

Quick Test for Cation Exchange Capacity in Soils, R.J. Goos, B.E. Johnson

Effect of Grid versus Whole-field Soil Sampling on N Recommendations and Quality for Sugar Beet, Gary Hergert

Nitrogen Rate and Timing for Irrigated Hard White Wheat, Gary Hergert

Residual Effects of Manure and N Fertilizer on Corn Yield and Soil N and P Under Drip and Furrow Irrigation, Abdel Berrada, Ardell D. Halvorson, Michael E. Bartolo, James Valliant

Seedrow Nitrogen Placement Guidelines. How do they Apply? Rigas Karamanos

Nitrogen Fertilizer Product and Application Alternatives for Furrow-irrigated Sugar Beet, Jay Norton, Michael Killen, Sandra Frost

2008 Committee

Alan Blaylock, *Agrium, U.S.*, **Chair**

Randy Brown, *Agrilience*

David Franzen, *North Dakota State Univ*

Ardell Halvorson, *USDA-ARS*

Tom Jensen, *International Plant Nutrition Inst*

Clain Jones, *Montana State Univ*

Larry Murphy, *Fluid Fertilizer Foundation*

Alan Schlegel, *Kansas State Univ*

Mike Stewart, *International Plant Nutrition Inst*

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