

Otter Tail/Grant County Soybean Variety Trials

A program of the Otter Tail/Grant County Soybean-Corn Growers Association

Cooperator/Location: *Darin Roehl, Fergus Falls, MN*
Planting Date: *May 29, 2013*
Harvest Date: *October 2, 2013*
Experimental Design: *RCB 3 replications*

County Board:

Brian Kjesbo, Chair, Ashby, MN
kjesbo424@hotmail.com

Ryan Rogness, Treasurer, Fergus Falls, MN
ryanrogness@hotmail.com

Dana Blume, Secretary/MSGa Director, Elbow Lake, MN
dkblume@runestone.net

Travis Rosholl, Vice Chair, Erhard, MN

Tony Endreson, Promotion/Membership/Scholarship, Wendell, MN
Endreso1@runestone.com

Doug Holen, Fergus Falls, MN
Holen009@umn.edu

Bill Shores, Industry Rep/Promotion/Membership, Ashby, MN
Bill.shores@wensmansseed.com

Coordinated County Variety Trials and Research Trials:

The data presented here is part of a coordinated effort by MN County Soybean Grower Associations, ND County Crop Improvement Associations, U of MN Extension and NDSU and to expand the amount of research information that soybean growers have access to in NW Minnesota and SE North Dakota. These trials are funded by Minnesota & North Dakota Soybean Check-off and entry fees paid by seed companies.

There were a total of 12 locations across MN and ND that participated in this coordinated effort: Nine were MN soybean county associations and three were ND county crop improvement associations. In Minnesota, each trial location had additional research trials on either plant populations and micro nutrients or fungicides. The results of these trials will be disseminated in the On-Farm Cropping Trials Booklet which will be available at the Prairie Grains Conference, December 12, 2013 and at future county meetings.

About This Variety Plot Trial:

The County Soybean Variety Plots are randomized small plot trials. They utilized three replicated blocks in each location. The soybean plots were planted with a Haldrup small plot cone planter and harvested with a small plot Zurn combine. For weed control, the plots were sprayed with glyphosate by the farmer-cooperator using commercial size equipment, utilizing driving lanes through the plots.

Data Interpretation:

Statistics are a mathematical tool used to summarize and interpret groups of numbers. In these tables we used a LSD (least significant difference) test to determine if differences in yield are due to genetic differences between varieties or due to other causes such as variability in soil type or fertility, or other environmental factors.

If the difference between two varieties exceeds the LSD value, it means that with 80 percent probability, the higher yielding variety is significantly different in yield. If the difference between two varieties is less than the LSD value, then the variety yields are considered the same. The LSD number is also a measure of variability within a trial and a large number indicates there is more variability in a location compared to a location with a small LSD number.

Coefficient of Variation (CV) is an indicator of how much variability there was within the soybean trial location (uneven seeding rate, emergence, insect damage, disease, soil type etc.) that was not due to any effect of the varieties. A CV of less than 15 indicates a very uniform trial site. Therefore, differences in soybean yields are the result of varieties rather than other external factors.

County Collaborators: Howard Person, U of MN Extension Educator, Marshall & Pennington Counties; Jerry Buckley, U of MN Extension Educator, Norman & Mahnomen Counties; Brian Zimprich, NDSU Extension Agent, Ransom County; Melissa Blawat, NDSU Extension Agent, Sargent County and Jason Goltz, NDSU Extension Agent, Richland County.

For Additional Information Contact:

Russ Severson, University of MN Extension
email: rseverso@umn.edu

Grant Mehring, NDSU Extension
email: grant.mehring@ndsu.edu



Project Funding provided by:

Minnesota Soybean
Research & Promotion Council

2013 Fergus Falls - EARLY MATURITY

Company	Variety	Relative Maturity	Yield (bu/A)
Nuseed/Seeds 2000	2071 RR2YN	0.7	51.4
Prairie Brand	PB-0777R2	0.7	47.6
Prairie Brand	PB-0863R2	0.7	46.4
Thunder Seed Inc.	3307 R2Y	0.7	46.0
Asgrow	AG0732	0.7	44.0
NorthStar Genetics	NS 0537R2	0.5	43.9
Stine Seeds	05RC68	0.5	41.8
<i>Location Average (bu/A)</i>			45.9
CV: 4.1		LSD 0.2	2.5

2013 Fergus Falls - LATE MATURITY

Company	Variety	Relative Maturity	Yield (bu/A)
NorthStar Genetics	NS 1257R2	1.1	48.6
Thunder Seed Inc.	3114 R2Y	1.4	48.2
NorthStar Genetics	NS 1249NR2	1.2	48.1
Hyland Seeds	HS 11RY07	1.4	47.1
Nuseed/Seeds 2000	2122 RR2YN	1.2	46.8
Proseed Inc.	2-140	1.4	46.5
NuTech Seed	6143	1.4	45.6
Stine Seeds	11RD00	1.1	44.9
REA Hybrids	71G20	1.1	44.7
Peterson Farms Seed	PFS 12R12	1.2	44.5
Proseed Inc.	PX12	1.2	44.2
Thunder Seed Inc.	3211 R2Y	1.1	44.1
Proseed Inc.	PX11	1.1	43.6
REA Hybrids	71G14	1.1	43.2
Integra Seeds	21115N	1.1	42.9
Prairie Brand	PB-1234R2	1.2	37.2
Asgrow	AG1431	1.4	36.9
<i>Location Average (bu/A)</i>			44.2
CV: 10.7		LSD 0.2	7.8

All yields are adjusted to 13% moisture.

2013 Fergus Falls - MID MATURITY

Company	Variety	Relative Maturity	Yield (bu/A)
Nuseed/Seeds 2000	2093 RR2YN	0.9	48.1
Prairie Brand	PB-0866R2	0.8	47.4
Thunder Seed Inc.	3408 R2YN	0.8	46.9
NuTech Seed	6098	0.9	46.6
Proseed Inc.	PX08	0.8	46.6
Hyland Seeds	HS 09RYS12	0.9	46.4
REA Hybrids	69G14	0.9	44.5
Channel	0906R2	0.9	44.5
Renk	RS082R2	0.8	44.5
Integra Seeds	20815	0.8	44.4
NuTech Seed	6088	0.8	43.5
NuTech Seed	6093	0.9	42.3
Integra Seeds	20810	0.8	42.2
Peterson Farms Seed	PFS 14R09N	0.9	42.1
Peterson Farms Seed	PFS 13R08N	0.8	41.9
NorthStar Genetics	NS 0839NR2	0.8	39.8
Peterson Farms Seed	PFS 11R08	0.8	39.6
<i>Location Average (bu/A)</i>			44.2
CV: 5.6		<i>LSD 0.2</i>	3.3

Thank you to the following Seed Companies for participating in the 2013 Soybean Variety Trials:

Asgrow - www.asgrowanddekalb.com
Channel - www.channel.com
Dairyland Seed Company - www.dairylandseed.com
Dyna-Gro Seed - www.dynagroseed.com
Gold Country Seed - www.goldcountryseed.com
Golden Harvest - www.syngenta.com
Hefty Seed Company - www.heftyseed.com
Hyland Seeds - www.hylandseeds.com
Integra Seed - www.integraseed.com
Legend Seeds - www.legendseeds.net
NorthStar Genetics - www.northstargenetics.com

Nuseed/Seeds 2000 - www.seeds2000.net
NuTech Seed - www.nutechseed.com
Peterson Farms Seed - www.petersonfarmsseed.com
Prairie Brand - www.prairiebrand.com
Producers Hybrids - www.producershybrids.com
Proseed Inc. - www.proseed.net
REA Hybrids - www.rea-hybrids.com
Renk Seeds - www.renkseed.com
Stine Seeds - www.stineseed.com
Thunder Seed Inc. - www.thunderseeds.com
Wensman Seed Company - www.wensmanseed.com