Minnesota Soybean Northern Office

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www.mnsoybean.org

Minnesota Soybean Research & Promotion Council

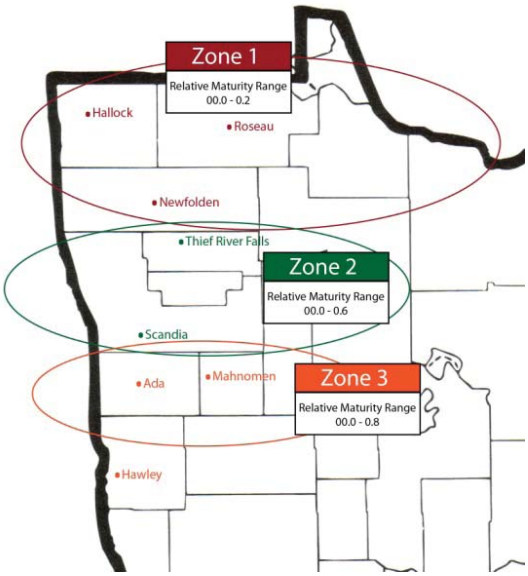
Dear MN Soybean Member:

We want to thank you for your membership in the Minnesota Soybean Growers Association. Your membership, along with other memberships in our County, allows us to be an organized county.

As an organized county, our County Soybean Growers Association is working with other area county soybean associations to help expand the research and information available to us as soybean growers. One example of this is our Coordinated Soybean Variety Trial program. The trial results from 2012 are attached.

We want to thank the plot cooperators for hosting the 2012 site on their land. We also want to thank the University of Minnesota Extension for making these plots possible. The Minnesota Soybean Research & Promotion Council and seed companies helped fund these trials. Please thank them.

Below is a map highlighting the seven coordinated variety trials and zones in NW Minnesota. Please take a look at the enclosed trial results. It contains individual results from the two locations in the southern zone (Zone 3) as well as the combined results from the two locations.



The results from the other two zones will be available in the near future on the internet at:
http://www.smallgrains.org/soybeanwebsite/index.html

Sincerely,
Your County Soybean Growers Association Board

2012 Soybean Variety Trials - Combined Data from Zone 3
Becker/Mahnomen & Norman

a program of the Becker/Mahnomen & Norman County Soybean Growers Association

Combined Data Interpretation: The combined data will allow you to see how varieties perform across different environments. As you evaluate these tables you may want to see how a variety performs in your area and compare it to how it performs in several locations before making a variety selection decision. Combining data also typically improves your ability to detect smaller differences in yields (ex. LSD) because it increases the number of replications in the statistical analysis.

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.

Collaborators: Howard Person, U of MN Extension Educator, Marshall & Pennington Counties; Ben Arlt, U of MN Extension Educator, Norman & Mahnomen Counties; Jim Stordahl, U of MN Extension Educator, Polk County; Phil Glogoza, U of MN Extension, Regional Crops Educator and Galen Thompson, NWROC, Research Fellow

2012 Combined Data - Zone 3 - EARLY MATURITY

Company	Variety	Relative Maturity	Ada Yield (bu/A)	Mahnomen Yield (bu/A)	Avg across locations
Producers Hybrids	0301 R2	0.3	53.6	52.5	53.1
NorthStar Genetics	NS0318R2	0.3	52.0	51.1	51.6
Wensman Seed Co.	W 3032R2	0.3	48.1	53.0	50.5
Peterson Farms Seed	PFS 13R03	0.3	50.5	48.5	49.5
Peterson Farms Seed	PFS 12R03	0.3	50.5	47.8	49.2
Legend Seeds	LS 03R22	0.3	52.1	45.9	49.0
Syngenta	S02-B4	0.2	47.8	50.1	49.0
Hyland Seeds	HS 01RY02	0.1	49.0	47.9	48.5
Channel	0205R2	0.2	47.5	48.7	48.1
Legend Seeds	LS 009R20	.09	45.6	49.7	47.6
Seeds 2000	0091 RR2Y	00.9	47.7	47.1	47.4
Hyland Seeds	HS 03RY33	0.3	46.9	46.4	46.6
Thunder Seed Inc.	3303R2Y	0.3	49.7	42.6	46.2
Hefty Seed Co.	H02Y11	0.2	44.1	45.7	44.9
		Average bu/A	*48.9*	*48.4*	*48.6*
		LSD .2 =	*3.8*	*2.4*	*2.4*

All yields are adjusted to 13% moisture.

For Additional Information Contact:
Russ Severson, University of MN Extension
email: rseverso@umn.edu

University of Minnesota EXTENSION Driven to Discover℠

Project Funding provided by:
Minnesota Soybean Research & Promotion Council

2012 Combined Data - Zone 3 - LATE MATURITY

Company	Variety	Relative Maturity	Ada Yield (bu/A)	Mahnomen Yield (bu/A)	Avg across locations
Dyna-Gro Seed	S08RY23	0.8	52.0	51.6	51.8
Proseed Inc.	P2 11-50	0.5	50.7	53.0	51.8
Dyna-Gro Seed	37RY06	0.6	47.2	56.0	51.6
Thunder Seed Inc.	3307R2Y	0.7	49.0	52.9	51.0
Dairyland Seed Company	DSR-0606/R2Y	0.6	50.4	51.1	50.8
Dairyland Seed Company	DSR-0404/R2Y	0.4	50.6	50.0	50.3
NorthStar Genetics	NS0717R2	0.7	48.5	51.2	49.8
Integra Seed	78070R	0.8	46.7	52.7	49.7
Peterson Farms Seed	PFS 12R05	0.5	50.7	48.8	49.7
Peterson Farms Seed	PFS 12R06	0.6	47.6	51.5	49.6
Integra Seed	20600	0.6	48.3	50.4	49.3
Dairyland Seed Company	DSR-0904/R2Y	0.8	49.4	48.6	49.0
Legend Seeds	LS 06R21	0.6	48.5	48.2	48.3
Proseed Inc.	P2 20-70	0.7	48.1	48.5	48.3
Legend Seeds	LS 05R22N	0.5	43.5	53.0	48.2
Wensman Seed Co.	W 3050NR2	0.5	48.2	48.2	48.2
Proseed Inc.	P2 10-80	0.8	46.0	50.4	48.2
Thunder Seed Inc.	3205R2Y	0.5	51.7	44.7	48.2
Dyna-Gro Seed	31RY08	0.8	48.7	47.0	47.8
Wensman Seed Co.	W 3058NR2	0.5	49.8	45.8	47.8
Gold Country Seed	0140	0.9	45.7	49.8	47.8
Pioneer Hi-Bred International	90Y70	0.7	44.2	51.3	47.7
Hefty Seed Co.	H04Y12	0.4	47.2	48.2	47.7
NorthStar Genetics	NS0537R2	0.5	47.8	47.1	47.4
REA Hybrids	65G22	0.5	51.2	43.0	47.1
Channel	0501R2	0.5	46.8	47.2	47.0
Channel	0605R2	0.6	44.3	49.7	47.0
REA Hybrids	66G22	0.6	47.0	47.0	47.0
Proseed Inc.	P2 11-60	0.6	44.0	50.0	47.0
NuTech Seed	7063	0.6	45.6	47.8	46.7
Hyland Seeds	HS 07RY27	0.7	45.0	48.3	46.7
REA Hybrids	64G14	0.4	47.4	45.9	46.6
Pioneer Hi-Bred International	90Y51	0.5	41.9	50.7	46.3
Hyland Seeds	HS 04RY03	0.4	47.0	45.6	46.3
NuTech Seed	6088	0.8	45.4	46.7	46.1
NuTech Seed	6098	0.8	44.5	47.5	46.0
NorthStar Genetics	NS0626R2	0.6	43.2	48.7	45.9
NuTech Seed	6070	0.7	43.3	47.9	45.6
Thunder Seed Inc.	3108R2Y	0.8	46.4	44.0	45.2
Syngenta	S06-H5	0.6	45.0	45.3	45.2
Dyna-Gro Seed	S04RY13	0.4	46.6	42.1	44.4
		Average bu/A	*47.2*	*48.7*	*48.0*
		LSD .2 =	*2.6*	*4.4*	*2.8*

All yields are adjusted to 13% moisture.

Becker/Mahnomen County Soybean Variety Trials

a program of the Becker/Mahnomen County Soybean Growers Association

Cooperator/Location: Steve Kahlbaugh, Mahnomen, MN
Planting Date: May 15, 2012
Harvest Date: September 26, 2012
Experimental Design: RCB 3 replications

County Soybean Board:
- **Bill Zurn**, Chairman, Callaway, MN, colzurn@yahoo.com
- **Bryan Klabunde**, Vice Chairman, Waubun, MN bryan.klabunde@gmail.com
- **Margaret Jirava**, Secretary, Ogema, MN majbjirava@hotmail.com
- **Karolyn Zurn**, Treasurer & State Director, Callaway, MN colzurn@yahoo.com
- **Mitch Hoekstra**, Crop Research Coordinator, Mahnomen, MN mitchh@arvig.net

Norman County Soybean Variety Trials

a program of the Norman County Soybean-Corn Growers Association

Cooperator/Location: *Wayne & John Brandt, Ada, MN*
Planting Date: *May 15, 2012*
Harvest Date: *September 25, 2012*
Experimental Design: RCB 3 replications

County Soybean Board:
- **Corey Hanson**, Chairman & State Delegate, Gary, MN cmhanson@arvig.net
- **Lance Gilbertson**, Vice Chairman, Shelly, MN lanceallen1@hotmail.com
- **David Swenson**, Secretary, Shelly, MN daswenson@rrv.net
- **Danny Brandt**, Treasurer, Ada, MN, ldanbrandtfarms@hotmail.com
- **Bryan Hest**, Director, Perley, MN bdhest@aol.com

Coordinated County Variety Trials and Research Trials:

The data presented here is part of a coordinated effort by County Soybean Grower Associations and U of M Extension to expand the amount of research information that soybean growers in NW Minnesota have access to. These trials are funded by your Minnesota Soybean Check-off and entry fees paid by seed companies.

There are seven county associations at seven locations across NW Minnesota that participated in this coordinated effort. 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 13, 2012 and at future county meetings.

About These Variety Plot Trials:

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.

Collaborators: Howard Person, U of MN Extension Educator, Marshall & Pennington Counties; Ben Arlt, U of MN Extension Educator, Norman & Mahnomen Counties; Jim Stordahl, U of MN Extension Educator, Polk County; Phil Glogoza, U of MN Extension, Regional Crops Educator and Galen Thompson, NWROC, Research Fellow

For Additional Information Contact:
Russ Severson, University of MN Extension
email: rseverso@umn.edu

University of Minnesota Extension Driven to Discover

Project Funding provided by:
Minnesota Soybean Research & Promotion Council

2012 Mahnomen - EARLY MATURITY

Company	Variety	Relative Maturity	Yield (bu/A)
Wensman Seed Co.	W 3032R2	0.3	53.0
Producers Hybrids	0301 R2	0.3	52.5
NorthStar Genetics	NS0318R2	0.3	51.1
Syngenta	S02-B4	0.2	50.1
Legend Seeds	LS 009R20	.09	49.7
Channel	0205R2	0.2	48.7
Peterson Farms Seed	PFS 13R03	0.3	48.5
Hyland Seeds	HS 01RY02	0.1	47.9
Peterson Farms Seed	PFS 12R03	0.3	47.8
Seeds 2000	0091 RR2Y	00.9	47.1
Hyland Seeds	HS 03RY33	0.3	46.4
Legend Seeds	LS 03R22	0.3	45.9
Hefty Seed Co.	H02Y11	0.2	45.7
Thunder Seed Inc.	3303R2Y	0.3	42.6
		Location Average (bu/A)	*48.4*
		LSD 0.2 =	*2.4*

All yields are adjusted to 13% moisture.

2012 Ada - EARLY MATURITY

Company	Variety	Relative Maturity	Yield (bu/A)
Producers Hybrids	0301 R2	0.3	53.6
Legend Seeds	LS 03R22	0.3	52.1
NorthStar Genetics	NS0318R2	0.3	52.0
Peterson Farms Seed	PFS 13R03	0.3	50.5
Peterson Farms Seed	PFS 12R03	0.3	50.5
Thunder Seed Inc.	3303R2Y	0.3	49.7
Hyland Seeds	HS 01RY02	0.1	49.0
Wensman Seed Co.	W 3032R2	0.3	48.1
Syngenta	S02-B4	0.2	47.8
Seeds 2000	0091 RR2Y	00.9	47.7
Channel	0205R2	0.2	47.5
Hyland Seeds	HS 03RY33	0.3	46.9
Legend Seeds	LS 009R20	.09	45.6
Hefty Seed Co.	H02Y11	0.2	44.1
		Location Average (bu/A)	*48.9*
		LSD 0.2 =	*3.8*

All yields are adjusted to 13% moisture.

2012 Mahnomen - LATE MATURITY

Company	Variety	Relative Maturity	Yield (bu/A)
Dyna-Gro Seed	37RY06	0.6	56.0
Legend Seeds	LS 05R22N	0.5	53.0
Proseed Inc.	P2 11-50	0.5	53.0
Thunder Seed Inc.	3307R2Y	0.7	52.9
Integra Seed	78070R	0.8	52.7
Dyna-Gro Seed	S08RY23	0.8	51.6
Peterson Farms Seed	PFS 12R06	0.6	51.5
Pioneer Hi-Bred International	90Y70	0.7	51.3
NorthStar Genetics	NS0717R2	0.7	51.2
Dairyland Seed Company	DSR-0606/R2Y	0.6	51.1
Pioneer Hi-Bred International	90Y51	0.5	50.7
Integra Seed	20600	0.6	50.4
Proseed Inc.	P2 10-80	0.8	50.4
Dairyland Seed Company	DSR-0404/R2Y	0.4	50.0
Proseed Inc.	P2 11-60	0.6	50.0
Gold Country Seed	0140	0.9	49.8
Channel	0605R2	0.6	49.7
Peterson Farms Seed	PFS 12R05	0.5	48.8
NorthStar Genetics	NS0626R2	0.6	48.7
Dairyland Seed Company	DSR-0904/R2Y	0.8	48.6
Proseed Inc.	P2 20-70	0.7	48.5
Hyland Seeds	HS 07RY27	0.7	48.3
Hefty Seed Co.	H04Y12	0.4	48.2
Legend Seeds	LS 06R21	0.6	48.2
Wensman Seed Co.	W 3050NR2	0.5	48.2
NuTech Seed	6070	0.7	47.9
NuTech Seed	7063	0.6	47.8
NuTech Seed	6098	0.8	47.5
Channel	0501R2	0.5	47.2
NorthStar Genetics	NS0537R2	0.5	47.1
REA Hybrids	66G22	0.6	47.0
Dyna-Gro Seed	31RY08	0.8	47.0
NuTech Seed	6088	0.8	46.7
REA Hybrids	64G14	0.4	45.9
Wensman Seed Co.	W 3058NR2	0.5	45.8
Hyland Seeds	HS 04RY03	0.4	45.6
Syngenta	S06-H5	0.6	45.3
Thunder Seed Inc.	3205R2Y	0.5	44.7
Thunder Seed Inc.	3108R2Y	0.8	44.0
REA Hybrids	65G22	0.5	43.0
Dyna-Gro Seed	S04RY13	0.4	42.1
		Location Average (bu/A)	*48.7*
		LSD 0.2 =	*4.4*

All yields are adjusted to 13% moisture.

2012 Ada - LATE MATURITY

Company	Variety	Relative Maturity	Yield (bu/A)
Dyna-Gro Seed	S08RY23	0.8	52.0
Thunder Seed Inc.	3205R2Y	0.5	51.7
REA Hybrids	65G22	0.5	51.2
Peterson Farms Seed	PFS 12R05	0.5	50.7
Proseed Inc.	P2 11-50	0.5	50.7
Dairyland Seed Company	DSR-0404/R2Y	0.4	50.6
Dairyland Seed Company	DSR-0606/R2Y	0.6	50.4
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NuTech Seed	7063	0.6	45.6
NuTech Seed	6088	0.8	45.4
Hyland Seeds	HS 07RY27	0.7	45.0
Syngenta	S06-H5	0.6	45.0
NuTech Seed	6098	0.8	44.5
Channel	0605R2	0.6	44.3
Pioneer Hi-Bred International	90Y70	0.7	44.2
Proseed Inc.	P2 11-60	0.6	44.0
Legend Seeds	LS 05R22N	0.5	43.5
NuTech Seed	6070	0.7	43.3
NorthStar Genetics	NS0626R2	0.6	43.2
Pioneer Hi-Bred International	90Y51	0.5	41.9
		Location Average (bu/A)	*47.2*
		LSD 0.2 =	*2.6*

All yields are adjusted to 13% moisture.

Thank you to the following Seed Companies for participating in the 2012 Soybean Variety Trials:

Asgrow - www.asgrowanddekalb.com
Channel - www.channel.com
Croplan Genetics - www.croplangenetics.com
Dairyland Seed Company - www.Dairylandseed.com
Dyna-Gro Seed - www.dynagroseed.com
Gold Country Seed - www.goldcountryseed.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
NuTech Seed - www.nutechseed.com
Peterson Farms Seed - www.petersonfarmsseed.com
Pioneer Hi-Bred International - www.pioneer.com
Prairie Brand - www.prairiebrand.com
Producers Hybrids - www.producershybrids.com
Proseed Inc. - www.proseed.net
REA Hybrids - www.rea-hybrids.com
Seeds 2000 - www.seeds2000.net
Stine Seeds - www.stineseed.com
Syngenta - www.syngenta-us.com
Thunder Seed Inc. - www.thunderseed.com
Wensman Seed Company - www.wensmanseed.com