

Upper Midwest Edition

# FIRST

Farmer's Independent Research of Seed Technologies

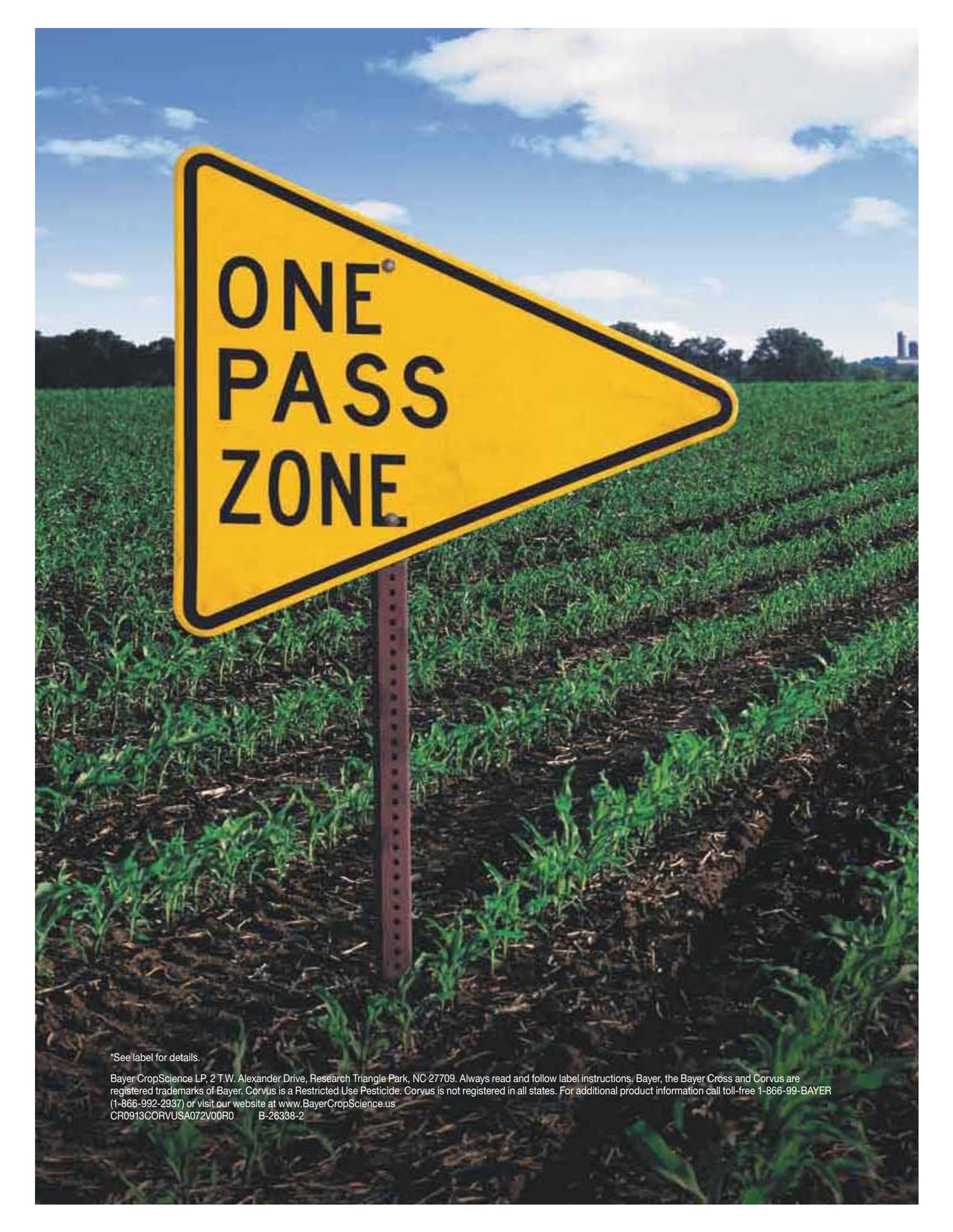
Evaluating Corn Hybrids and Soybean Varieties



Evaluation guide of corn hybrids and soybean varieties featuring independent on-farm yield tests



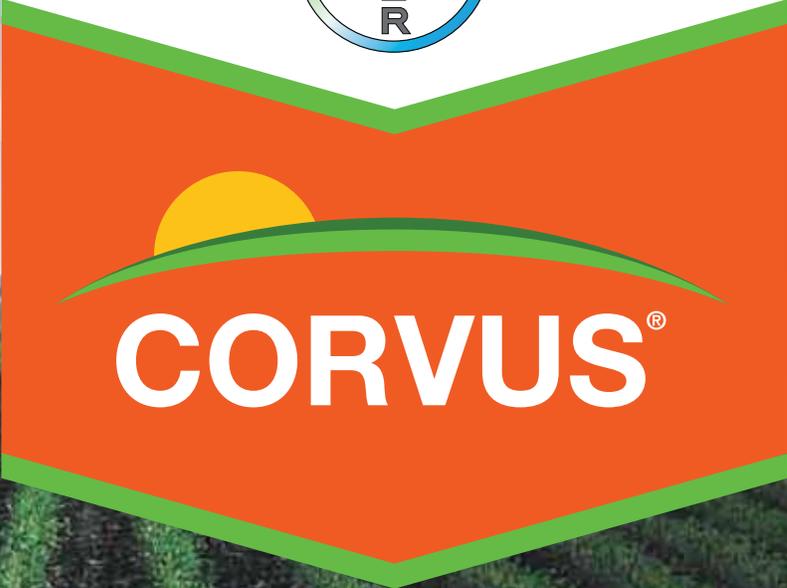
Sponsored By



**ONE  
PASS  
ZONE**

\*See label for details.

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CR0913CORVUSA072V00R0 B-26338-2

A large, stylized graphic of a corn cob is centered in the upper half of the advertisement. It features a green top and bottom, an orange middle section, and a yellow sun rising behind a green wave. The word "CORVUS" is written in white, bold, sans-serif capital letters across the orange section.

**CORVUS<sup>®</sup>**

# ONE PASS. ZERO DOUBTS.

▶ This year, leave your doubts behind in a single pass. At just 5.6 fl oz/A\*, Corvus<sup>®</sup> pre-emergence corn herbicide delivers season-long control of grass and broadleaf weeds.

- Burndown takes out early weeds.
- Residual prevents new weeds.
- Reactivation gets late weeds.

For more information, contact your Retailer  
or Bayer CropScience Representative.



Bayer CropScience



 **PONCHO**<sup>®</sup>

**VOTiVO**



SURE, WE COULD TELL YOU ABOUT THE POSITIVE EFFECTS OF  
TREATING YOUR SEEDS. BUT IT REALLY BOILS DOWN TO TWO WORDS:

**PONCHO<sup>®</sup>/VOTiVO<sup>®</sup>**

Applied on more than 14 million acres of corn already, Poncho<sup>®</sup>/VOTiVO<sup>®</sup> seed treatment from Bayer CropScience helps farmers achieve higher levels of production by using a systemic agent that helps protect the whole plant against insect pests. Poncho/VOTiVO also uses a biological component that protects against nematodes during early development, leading to healthier stands and larger yields. So get treated and get growing. For more information, contact your Seed Dealer or Bayer CropScience Representative, or visit [ponchovotivo.us](http://ponchovotivo.us).

**NOW AVAILABLE FOR CORN, COTTON AND SOYBEANS.**

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Covering Minnesota and the Dakotas

Other editions available at [www.firstseedtests.com/media.shtml](http://www.firstseedtests.com/media.shtml)

#### CORN RESULTS

- |  |  |
|--|--|
| <b>8 RDRV</b><br>Red River Valley        | <b>14 MNWC</b><br>Minnesota West Central |
| <b>10 SDNE</b><br>South Dakota Northeast | <b>16 MNSW</b><br>Minnesota Southwest    |
| <b>12 SDSE</b><br>South Dakota Southeast | <b>20 MNSE</b><br>Minnesota Southeast    |

#### SOYBEAN RESULTS

- |   |   |
|---|---|
| <b>22 NDEC</b><br>North Dakota East Central | <b>29 MNWC</b><br>Minnesota West Central  |
| <b>23 NDSE</b><br>North Dakota Southeast    | <b>30 MNCE</b><br>Minnesota Central       |
| <b>24 SDNE</b><br>South Dakota Northeast    | <b>32 MNSC</b><br>Minnesota South Central |
| <b>25 SDEC</b><br>South Dakota East Central | <b>34 MNSO</b><br>Minnesota South         |
| <b>28 SDSE</b><br>South Dakota Southeast    |   |

### Technologies\*

3000GT	Agrisure® 3000GT (CB,RW,LL,GT)
3011A	Agrisure® Artesian® (CB,RW,LL,GT)
3110	Agrisure® Viptera® 3110 (Vip,CB,LL,GT)
3111	Agrisure® Viptera® 3111 (Vip,CB,RW,LL,GT)
3122	Agrisure® 3122 (CB,HXX,RW,LL,GT)
3220	Agrisure® Viptera® 3220 (Vip,CB,HX,LL,GT)
AM	Optimum® AcreMax® (YGCB,HX,LL,RR2)
AM-R	Optimum® AcreMax® (YGCB,HX,RR2)
AM1	Optimum® AcreMax®1 (HXT,LL,RR2)
AMRW	Optimum® AcreMax® Rootworm (HXRW,LL,RR2)
AMRW-R	Optimum® AcreMax® Rootworm (HXRW,RR2)
AMX	Optimum® AcreMax® Xtra (YGCB,HXT,LL,RR2)
AMX-R	Optimum® AcreMax® Xtra (YGCB,HXT,RR2)
AMXT	Optimum® AcreMax® Xtreme (YGCB,HXT,LL,RR2)
B	Blended seed (i.e. refuge blend)
CB/LL	Agrisure® CB/LL
CB/LL/RW	Agrisure® CB/LL/RW
GT	Agrisure® GT
GT/CB/LL	Agrisure® GT/CB/LL
HX	Herculex® 1, contains LL
HX,RR2	Herculex® 1, Roundup Ready 2 Corn
HXRW	Herculex® Rootworm, contains LL
HXT	Herculex® Xtra (HX,HXRW,LL)
HXT,RR2	Herculex® Xtra, Roundup Ready 2 Corn
LL	LibertyLink®
None	Conventional, non-GMO
OI	Optimum® Intrasect® (YGCB,HX,LL,RR2)
OIX	Optimum® Intrasect® Xtra (YGCB,HXT,LL,RR2)
OIXT	Optimum® Intrasect® Xtreme (YGCB,HXT,RW,LL,RR2)
OT	Optimum® TRIssect® (HX,RW,LL,RR2)
RR	Roundup Ready® soybeans
RR2	Roundup Ready® 2 Corn
RR2Y	Genuity® Roundup Ready 2 Yield® soybeans
STS	STS® - sulfonyleurea tolerant soybeans
STX	SmartStax® (VT3P,HXX)
VT2P	Genuity® VT Double Pro®
VT3	YieldGard VT Triple®
VT3P	Genuity® VT Triple Pro®
YGCB	YieldGard® Corn Borer

\* The refuge component genetics may vary in a refuge blend seed product.

### Seed Treatments\*\*

?	information not provided
A	Allegiance®
AC	Acceleron® fungicide products
ACi	Acceleron® fungicide and insecticide products
AM	ApronMaxx®
AP	Apron XL®
AVB	Avicta® Complete Beans
AVC	Avicta® Complete Corn
C	Cruiser®
C2, C5, C1	Cruiser® at 0.25, 0.5 and 1.25 mg ai/seed, respectively
CC	CurryCoat™
CE	Cruiser Extreme®
CM	CruiserMaxx® Corn
CMB	CruiserMaxx® Beans
CMBV	CruiserMaxx® Beans with Vibrance
D	Dynasty® (azoxystrobin)
DPHB	DPH Boost™
EE	Evergol™ Energy
Es	Escalate®
Ex	Excalibre™
G	Gaucha®
I	Inovate™ System
M	Maxim XL®
MQ	Maxim Quattro®
None	untreated
O	Optimize®
PV	Poncho®/Votivo®
P2, P5, P1	Poncho® at 0.25, 0.5 and 1.25 mg ai/seed, respectively
R	Raxil® (tebuconazole)
RS	Right Stand™
SCE	SmartCote™ Extra
SDPI	Servo DPI
SS+	Soyshield Plus™
SStd	SureStand™
St	Stamina® (pyraclostrobin)
T	Trilex® (trifloxystrobin)
V	Votivo®
Z	zinc

\*\* Seed treatments may include unspecified plant health promoting components.

# How to Interpret FIRST Trials

**F**armer's Independent Research of Seed Technologies (FIRST) is an independent corn and soybean yield-testing service. We compare product yield performance in grower fields across 15 states: Delaware, Illinois, Indiana, Iowa, Kansas, Maryland, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Pennsylvania, South Dakota and Wisconsin. In 2013, we compared yields of 1,032 corn grain and 706 soybean products. In total, more than 78,210 plot strips in 500 tests spread across 308 farms were established.

Test locations are selected to represent the geographic diversity within a region. Ideal sites have uniform, well-drained soils with farmer hosts using production practices typical for the area.

Sponsoring seed companies submit their best products to desired test regions. They provide high-quality seed from commercial lots and fees to enter FIRST seed tests. Exceptions are check products (denoted by CK), chosen by FIRST managers to bridge results between early- and full-season tests, and Grower Comparison products (denoted by GC), provided by our host farmers for their knowledge.

FIRST managers package, randomize and plant seeds into host grower fields using slightly modified commercial planting equipment. Plot strips are 45' long and 10' wide (four 30" corn rows and soybean rows of either seven 15" rows or four 30" rows). Typically the center two corn rows and all soybean rows are used to measure yield.

Regions have been established to provide similarity by geography and crop maturity. Corn and soybean products within a 10-day and 0.7-group minimum maturity range, respectively, are pooled into a single all-season test or split into early- and full-season tests depending upon entry volume. All seed products entered in a region are seeded at each of six corn or four soybean locations within the region. Products are replicated three times per test, randomized and grouped in blocks from front to back and side to side. This provides more precision in yield measurement and flexibility should a disruptive event require elimination of non-uniform plot areas.

Soybean cyst nematode (SCN) levels are reported for most soybean test sites. Egg counts are taken per 100 ml of soil. Sites with up to 2,000 eggs, 2,001 to 12,000 eggs or more than 12,000 eggs are classified as low, medium or high populations, respectively.

FIRST regional summaries are designed to identify consistently high-yielding products from multiple locations. Product performance is averaged across all locations within a region. Regional summary tables rank the Top 30 corn and Top 20 soybean products on yield within a region. Grain yield, grain moisture and lodging are averaged from all locations and presented along with individual site yield results.

Regional summaries include least significant difference (LSD) for the region and individual site results. Statistically, the LSD value is the difference needed between two products to accurately state that

## Footnotes and Abbreviations:

Yields in **bold** are significantly above test average.

Brands in *italics* exceed the test's grain moisture limit.

Brand names ending with GC are grower-chosen comparison products.

Brand names ending with CK are check products in both early- and full-season tests.

# identifies rejected results omitted from summary

‡ identifies locations with 2 replications

§ identifies United Soybean Board-sponsored entries

^ G2® brand seed is distributed by NuTech Seed, LLC. HPT® brand seed is distributed by Hoegemeyer Hybrids, Inc. RPM® brand seed is distributed by Doeblers PA Hybrids, Inc. Supreme EX® brand seed is distributed by Seed Consultants, Inc. VPMMaxx® brand seed is distributed by AgVenture, Inc. XL® and Phoenix® brand seeds are distributed by Beck's Superior Hybrids. Curry®, G2®, HPT®, RPM®, Supreme EX®, VPMMaxx® and XL® are registered trademarks of DuPont Pioneer.

ns – not significant

SCN Resistance: S – susceptible, MR – Moderately Resistant, R – Resistant.

one product is better than another 9 times out of 10 (90% probability).

FIRST manager comments are provided for each test site. Comments provide insight regarding test conditions such as weather patterns, plant health and any other factors that may have impacted product results.

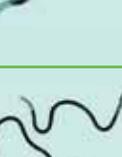
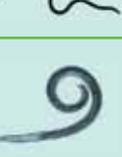
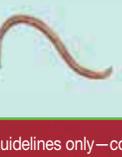
For more details, additional results and other editions visit [www.firstseedtests.com](http://www.firstseedtests.com).

**first** farmer's independent research of seed technologies

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# KNOW YOUR CORN NEMATODES

INFORMATION COMPILED FROM RECENT UNIVERSITY EXTENSION ARTICLES.

COMMON NAME	DAMAGE RATING	SOIL TYPE	THRESHOLD* (per 100 cc soil)	ADDITIONAL INFORMATION
 Needle	High	Sandy	5–25	Most damaging. Prefers cool, wet conditions. Can kill corn plants. Causes stubby roots. Found near rivers and streams and in continuous corn.
 Root-Lesion	Moderate	All types	50–100 Pre-plant soil	Most significant impact in Midwest corn. Smaller root systems that are dark and discolored. Moderate stunting.
 Lance	Moderate	Sandy and others	40–150	Reduces root system. Darkened and discolored roots. Moderate stunting and chlorosis.
 Dagger	Moderate	All types; worse in coarse soils	50–100	Kills root tips. Sensitive to tillage. Severe stunting and chlorosis. Fewer fine roots remaining.
 Stubby-Root	High	Sandy	50–100	Severe stunting and chlorosis. Stubby lateral roots. Excessive upper roots.
 Sting	High	Sandy	20–50	Severe stunting and chlorosis. Small, coarse, devitalized root system. Found in southern Illinois and in the South.
 Spiral	Damage with high populations	Heavier soils	300+	Mild stunting. Smaller-than-normal root system. Root decay.
 Root-Knot	Damage with high populations	Sandy	100	Corn damaged by root-knot nematodes often is stunted and has the appearance of moisture and nutrient deficiencies.
 Stunt	Damage with high populations	Heavier soils	150–300	Moderate stunting and chlorosis. Smaller-than-normal root system.

\*Guidelines only—consult your state's Extension nematologist for more information specific to your geography.

**IMPORTANT:** This advertisement is not intended to provide adequate information for use of these products. Read the label before using these products. Observe all label directions and precautions while using these products.

Photos courtesy of J. Eisenback, Virginia Tech University.

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CR1012PONVOTA033V00R0





**Corn Stats:**

Yield Range: 152.2-190.6 bu. per acre  
 Yield Average: 172.5 bu. per acre  
 Top \$ Per Acre: \$820

**Corn Field Notes: Red River Valley**

Mark Tollefson, FIRST Manager

**Casselton**—Heavy rain just as the corn was emerging damaged some test plots by causing ponding to occur. The test needed some heat and dry weather in early July; corn plants were uneven in height. The slow start helped contribute to high grain moistures at harvest. Plant heights at harvest were around 6' to 7' tall. These tests really came back and produced good yields despite their rough start.

**Colfax**—The ground at the Colfax test site remained saturated into May and we planted later than desired. Within a week of planting we had a heavy rain, which contributed to a loss of population in the early-season test, and one replication was eliminated. In early July the test was uneven and yellow and it looked like we might lose the test altogether. We did have a strong finish to the growing season and yields came in better than anticipated. With the slow start and October rain, grain moistures were high on this test.

**Elbow Lake**—When this site

was planted you could still see snow in the farmer's grove. These tests looked good all year long; they were weed-free and well drained, which resulted in a crop with a very uniform appearance this fall. At harvest, stalk health was good with no crop issues to hinder the harvest process. Area grain moistures have varied with soil type, averaging around 20%, but grain moistures at this site were drier than that due in part to the good soil drainage.

**Foxhome**—At harvest, portions of this test died prematurely from stress. Corn stalks in those areas were darker colored and some hybrids had stalk lodging. Stressed plants also had no leaves attached and the ears on those were smaller than they were on plants in healthy-looking areas. The stress was not limited to the test area; the rest of the field had a similar appearance. The symptoms appeared to be consistent with late-season water ponding but did not occur on lower ground. The yield results

are quite variable as evidenced by the check hybrid, which shows a yield difference of 40. bu per acre between tests at this location. Data for both tests was rejected.

**Gwinner**—This site had some heavy rains after planting. Plants in portions of the test turned yellow and were uneven in height in early July. We had a bit of a rebound and by August plants had a more uniform height and looked better. At harvest, there was some stalk lodging in portions of the test. A 3" rainfall in October slowed the harvest progress in this area and grain moisture remained around 20%.

**Hawley**—We planted a little late in the growing season since the spring was wet and cool in this area. July rainfall was 1.5" below the 30-year average. The corn was somewhat short, with an average height of 6' this year. Despite some strong winds at harvest, the corn stood well. Grain moisture remained high this fall due in part to the later planting date and the soggy fall weather.

Site Information Red River Valley						2013 Rainfall (inches)					
						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Casselton	silty clay	conventional	soybean	120	5/24	3.80	7.47	0.86	1.58	-2.60	-1.04
Colfax	sandy loam	conventional	sugarbeet	140	5/28	3.77	6.53	1.90	2.36	-1.58	-0.60
Elbow Lake	clay loam	conventional	soybean	155	5/11	3.00	5.09	4.38	1.60	0.70	-1.43
Foxhome	clay loam	conventional	sugarbeet	164	5/11	3.44	5.18	2.86	0.91	-0.53	-2.26
Gwinner	loam	conventional	soybean	117	5/10	4.07	9.98	1.29	0.53	-2.01	-1.61
Hawley	loam	conventional	soybean	120	5/23	2.28	4.15	1.68	1.74	-1.53	-0.93

Rainfall obtained on-site (\* denoted) or estimated from [www.weatherplot.com](http://www.weatherplot.com). Rainfall Normals (1981-2010) from National Climatic Data Center.

# FIRST Red River Valley Corn Results



## EARLY-SEASON TEST 85-90 Day CRM

Top 30 of 53 tested

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Casselton	Colfax†	Elbow Lake	Foxhome#	Gwinner‡	Hawley
Channel	186-31VT2PRIB	VT2P,B	AC,P5V	86	<b>187.5</b>	20.6	1	818	1	176.2	169.3	184.4	143.6	<b>194.0</b>	<b>213.8</b>
Dyna-Gro	CX29SS30	STX	AC,P5V	89	179.5	22.2	3	775	6	174.5	155.4	187.2	136.1	<b>205.1</b>	175.5
Dyna-Gro	D26VP56	VT3P	AC,P5V	86	179.4	21.0	1	780	3	160.4	189.0	173.5	117.6	<b>190.5</b>	183.7
Channel	189-03VT2PRIB	VT2P,B	AC,P5V	89	179.4	21.2	1	779	4	176.0	194.0	<b>197.5</b>	146.0	145.0	184.7
Hyland	8202RA	STX,B	CM,C2	85	179.3	21.9	1	776	5	182.3	174.7	175.1	165.2	<b>186.4</b>	177.8
Prairie Brand	851RA	STX,B	CM,C1	87	178.5	22.2	1	771	9	181.3	195.3	183.4	139.1	169.7	162.9
Rea	3B330-RIB	VT2P,B	AC,P2	90	178.4	22.0	2	772	8	182.3	184.8	178.0	135.9	173.2	173.5
Gold Country	84-75R2P	VT2P,B	AC,P5V	84	178.3	19.2	1	784	2	175.9	<b>208.4</b>	176.4	146.3	147.3	183.6
Dairyland	DS9487RA	STX,B	CM,C2	87	178.3	21.6	1	773	7	<b>184.8</b>	175.6	171.4	156.0	167.4	192.3
Seeds 2000	9001VP3220	3220,B	CM,C2	90	178.0	22.4	4	768	10	177.4	179.7	191.4	144.0	<b>144.9</b>	<b>196.5</b>
Gold Country	91-45RSS	STX,B	AC,P5V	91	177.2	22.6	2	764	11	177.5	190.9	194.8	153.9	141.8	181.1
LG Seeds	LG5408STX	STX	AC,P5V	90	177.0	23.4	1	759	12	164.8	181.5	188.5	151.2	181.9	168.4
AgVenture/Scherr	GL4132ABW	3000GT	P5	90	174.8	22.4	4	754	16	161.1	169.9	182.3	134.3	180.2	180.4
Dairyland	DS7985	GT/CB/LL	CM,C2	86	174.0	21.4	3	755	14	158.8	174.2	176.4	138.2	183.8	176.6
Rea	3A901-RIB	STX,B	AC,P5V	90	173.5	22.4	1	749	17	177.4	194.9	175.7	132.2	143.8	175.5
Dairyland	DS7085	GT/CB/LL	CM,C2	85	173.4	20.3	1	757	13	161.8	<b>200.7</b>	180.1	137.7	151.1	173.2
Wensman	W 8085VT2RIB	VT2P,B	AC,P2	84	171.6	19.0	1	755	15	157.0	173.9	183.4	153.0	177.2	166.5
AgVenture/Scherr	GL2708AB	GT/CB/LL	P5	87	171.1	22.0	3	740	20	164.9	194.2	165.8	138.4	166.8	163.7
Latham	LH4098VT3PRO GC	VT3P,B	AC,P2	90	170.9	21.9	1	740	21	<b>186.2</b>	177.7	175.7	152.9	149.5	165.3
Proseed	1288-3111	3111	CM,C2	88	170.6	21.4	5	740	22	160.5	186.8	170.8	149.6	153.0	181.7
Prairie Brand	821GTCB	GT/CB/LL	CM,C2	85	170.4	20.3	2	744	18	153.1	169.0	176.5	132.7	161.8	191.6
NuTech	5B-888	GT/CB/LL	MQ,C2	88	169.6	20.2	2	741	19	173.7	185.9	170.7	146.8	138.1	179.7
Renk	RK266VT3P	VT3P	AC,P2	85	169.5	21.1	1	737	23	174.1	160.8	180.5	132.8	163.6	168.3
NuTech	5B-186	GT/CB/LL	MQ,C2	86	169.1	21.7	2	733	24	166.4	174.4	176.0	141.2	178.2	150.3
Stine	9201VT3Pro	VT3P	AC,P2	86	168.9	21.3	3	733	25	<b>187.2</b>	173.6	159.7	117.3	150.3	173.6
Wensman	W 60851RR	RR2	AC,P2	85	167.9	21.3	1	729	26	167.0	148.4	180.8	154.8	174.1	169.3
Latham	LH3647VT2PRO GC	VT2P,B	AC,P5V	86	167.4	21.1	1	728	27	158.2	183.8	185.7	148.7	133.2	175.9
Rea	3B890-RIB	VT2P,B	AC,P5V	89	166.6	20.1	2	728	28	174.7	170.5	179.8	139.2	136.2	171.8
Titan Pro	6886 GC	RR2	AC,P2	86	166.6	20.8	1	726	29	166.8	157.5	173.6	146.9	140.7	194.5
Proseed	1287GT3000	3000GT	CM,C2	87	166.4	20.4	1	726	30	171.5	179.9	164.5	145.7	156.6	159.6
Golden Harvest	G94R16-3000GT CK	3000GT	CM,C2	94	165.8	23.8	2	710	42	153.6	175.4	173.7	158.5	171.6	154.6
<b>Test Average =</b>					<b>169.0</b>	<b>21.4</b>	<b>2</b>	<b>733</b>		<b>168.0</b>	<b>175.1</b>	<b>176.3</b>	<b>141.5</b>	<b>154.0</b>	<b>171.4</b>
LSD (0.10) =					13.9	1.5	2			14.8	25.6	19.2	ns	31.4	23.8

## FULL-SEASON TEST 91-94 Day CRM

Top 30 of 54 tested

Proseed	PX93VT2PB	VT2P,B	AC,P2	93	<b>190.6</b>	23.0	1	820	1	183.6	199.4	194.3	151.6	<b>182.2</b>	193.5
Wensman	W 80952VT2RIB	VT2P,B	AC,P2	95	<b>189.2</b>	23.4	1	812	3	179.4	190.0	<b>207.1</b>	158.8	159.9	<b>209.6</b>
Renk	RK522SSTX	STX	AC,P2	94	<b>189.0</b>	26.1	2	798	5	182.0	197.9	200.6	118.7	173.4	191.0
Seeds 2000	9503VT2PRIB	VT2P,B	AC,P2	94	<b>188.5</b>	23.4	5	809	4	184.9	190.9	194.5	143.2	166.3	<b>205.7</b>
NuTech	5B-290	GT/CB/LL	MQ,C2	91	<b>187.8</b>	21.7	3	814	2	<b>189.7</b>	193.0	190.0	170.6	171.1	195.4
Channel	195-58STXRIB	STX,B	AC,P5V	95	186.8	25.7	1	791	7	165.0	190.2	<b>206.1</b>	118.5	<b>186.4</b>	186.4
Channel	192-08VT2PRIB	VT2P,B	AC,P5V	92	185.9	24.9	1	791	8	178.8	<b>203.8</b>	191.6	132.3	152.8	<b>202.3</b>
NuTech/G2 Gen	5X-894	HXT,RR2	MQ,P1V,R	94	184.7	22.8	1	795	6	186.2	188.7	199.5	173.8	156.6	192.3
Proseed	PX92R	VT3P	AC,P2	92	184.7	25.6	1	782	12	187.8	<b>204.3</b>	189.6	176.3	143.9	197.9
Seeds 2000	9504VT3P	VT3P	AC,P2	94	183.7	24.0	1	785	10	184.4	195.9	189.7	158.3	174.0	174.5
Gold Country	94-29R2P	VT2P,B	AC,P2	94	183.2	23.3	1	786	9	161.8	203.4	185.6	146.5	171.1	194.0
Rea	4B285-RIB	VT2P,B	AC,P5V	93	183.2	23.6	2	785	11	173.1	195.0	187.2	158.5	162.3	198.4
Mustang	3291GENVT2P	VT2P	AC,P2	90	181.9	23.1	1	780	13	163.6	197.6	194.2	115.2	158.6	195.3
NuTech/G2 Gen	5X-795	HXT,RR2	MQ,C2	94	181.4	24.0	3	775	15	160.2	201.4	184.0	118.3	171.2	190.2
Viking	VS92-110	VT2P,B	AC,P2	92	181.3	25.5	1	768	17	184.7	198.8	178.4	140.7	157.7	187.1
Rea	4B941-RIB	VT2P,B	AC,P2	94	181.1	25.5	2	767	18	168.7	197.4	191.8	131.6	174.1	173.5
Wensman	W 90935VT3PRO	VT3P	AC,P2	93	180.4	22.9	1	776	14	165.0	187.8	200.6	153.1	161.2	187.3
Wensman	W 8184VT2RIB	VT2P,B	AC,P2	95	179.9	26.9	1	756	21	168.6	196.4	202.6	153.9	141.4	190.6
Seeds 2000	9202VT2PRIB	VT2P,B	CM,C2	92	179.5	22.7	1	773	16	162.7	188.7	191.5	140.3	174.6	179.9
Dyna-Gro	D34VC52	VT2P	AC,P5V	94	178.6	27.3	2	749	26	164.4	196.2	204.1	172.6	165.4	162.7
Dyna-Gro	CX32VP56	VT3P	P5V	92	178.1	26.0	1	752	23	157.2	181.8	201.9	141.9	160.7	188.8
Dairyland	DS9791RA	STX,B	CM,C2	92	177.9	24.7	1	757	20	164.3	176.8	187.9	141.6	171.8	188.7
Gold Country	93-07RSS	STX,B	AC,P5V	93	177.7	26.3	2	749	27	156.6	184.8	<b>214.6</b>	129.3	162.0	170.3
NuTech/G2 Gen	5X-193	HXT,RR2	MQ,C2	93	177.2	23.7	3	759	19	175.5	187.7	178.6	93.7	171.0	173.3
Wensman	W 7110VT3PRIB	VT3P,B	AC,P2	90	177.1	24.9	1	753	22	163.3	190.7	178.1	134.4	170.0	183.3
Producers	5144VT3PRIB	VT3P,B	AC,P5V	91	175.8	24.7	1	748	28	165.6	193.4	184.4	165.1	149.2	186.4
Proseed	1191SS	STX,B	AC,P2	91	175.7	24.2	1	750	25	174.3	186.8	190.2	129.5	136.2	191.0
Titan Pro	2M91-2P	VT2P,B	AC,P2,Z	91	175.1	23.1	2	752	24	176.1	193.7	188.2	162.0	131.9	185.4
Titan Pro	93A94	3000GT	CM,C2,Z	94	174.2	23.3	2	748	29	170.9	170.6	179.5	131.4	167.0	182.9
Dyna-Gro	D31SS31	STX	AC,P5V	91	174.1	23.9	2	745	30	174.8	186.4	176.2	142.4	157.3	175.7
Golden Harvest	G94R16-3000GT CK	3000GT	CM,C2	94	164.0	24.3	2	700	50	159.1	183.7	171.0	118.7	137.5	168.5
<b>Test Average =</b>					<b>176.0</b>	<b>24.5</b>	<b>2</b>	<b>750</b>		<b>168.2</b>	<b>187.0</b>	<b>186.9</b>	<b>142.7</b>	<b>156.2</b>	<b>181.5</b>
LSD (0.10) =					11.0	1.2	3			19.9	16.5	18.7	33.8	22.6	19.3

‡ = 2 replications, early-season test; # = rejected results, not included in summary, early- and full-season tests



Mark Tollefson, FIRST Manager



## Corn Field Notes: South Dakota Northeast

### Corn Stats:

Yield Range: 185.6-225.7 bu. per acre  
 Yield Average: 204.7 bu. per acre  
 Top \$ Per Acre: \$1,003

**Bath**—The corn on the Bath test site was consistently 9' or taller. This is the tallest corn I've harvested this year. There was some minor stalk lodging observed in the test but it didn't really affect its ability to be harvested or its results. FIRST farmer member Scott Sperry reported almost no rainfall in August and has been very pleased with his yields this year. Both tests delivered very consistent results with a tremendous yield level averaging 237.8 bu. per acre in the early test and 250.6 bu. per acre in the full-season test. I would rate these tests a 10 out of 10.

**Cavour**—We had a hailstorm in June and we lost some population and yield potential at the Cavour test site. At harvest, the ear shanks were weak and at some points the ears had drooped to within 6" of the ground. This made harvest a challenge. We saw some ears that had fallen off the plant but most held on to the stalk, just at a lower-than-desirable height. Not much stalk lodging was observed.

The average yield here was 164.9 bu. per acre in the early-season test and 158.6 bu. per acre in the full-season test.

**Clear Lake**—This test site was located next to a dairy farm. In past years, it has had a lot of manure applied on it. We had a hailstorm in June and some plant damage occurred, including some population loss. At harvest the ear shanks had fallen down, dropping ears to within inches of the soil surface. Grain moisture has varied by soil type in this area and generally has been wetter than desired.

**Howard**—In spite of a late planting date, this plot had fully matured and grain moisture was dry at harvest. We had some stalk lodging, which was spread out in both tests. Strong winds this fall caused most of the lodging, as the crop stood well until harvest. Even with rainfall being an inch below the 30-year averages in both July and August, we had some good yields.

**Watertown**—This was one of our first sites planted in South

Dakota this year. We had a good start to the growing season with ample moisture and adequate temperatures. July was 1" below the 30-year rainfall average and August was 2" below. At harvest, stalk condition and ear condition were fair and harvest went well. Some September rains helped keep grain moisture high, especially in the full-season hybrids. Average yields here were 213.6 bu. per acre and 218.2 bu. per acre in the early- and full-season tests, respectively.

**Webster**—The early-season test had highly variable results due to changing soil types, wildlife damage and sprayer tracks. Both tests had variable harvest grain moisture and were some of the wettest grain I've seen this year. The full-season test had a couple of plots with grain moisture over 30%. The full-season test had more uniform results despite wet grain. The early-season test was rejected for variable results but the full-season test is still valid.

Site Information South Dakota Northeast						2013 Rainfall (inches)					
						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Bath	silt loam	strip-till	soybean	148	5/9	6.03	2.85	2.30	2.50	-1.37	-0.10
Cavour	loam	strip-till	soybean	142	5/25	6.75	5.55	1.56	2.16	-1.36	-0.27
Clear Lake	silty clay loam	conventional	soybean	135	5/16	3.81	8.22	4.06	0.55	0.60	-2.40
Howard	loam	no-till	corn	150	5/31	4.12	3.83	2.49	2.06	-0.75	-1.03
Watertown	silty clay loam	conventional	soybean	211	5/9	3.37	5.29	2.48	0.59	-1.08	-2.29
Webster	silty clay	no-till	wheat	110	5/16	2.63	5.37	2.55	1.35	-1.17	-1.70

Rainfall obtained on-site (\* denoted) or estimated from [www.weatherplot.com](http://www.weatherplot.com). Rainfall Normals (1981-2010) from National Climatic Data Center.

# FIRST South Dakota Northeast Corn Results



## EARLY-SEASON TEST 91-96 Day CRM

Top 30 of 63 tested

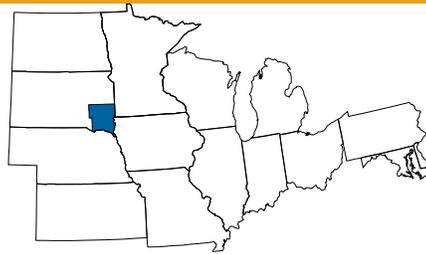
Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Bath	Cavour	Clear Lake	Howard	Watertown	Webster#
NuTech Renk	5B-290 RK522SSSTX	GT/CB/LL STX	MQ,C2 AC,P2	91 94	<b>225.7</b> <b>220.1</b>	17.2 18.4	3 1	1,003 972	1 2	251.0 252.2	<b>207.3</b> <b>239.2</b>	225.3 206.8	198.0 231.1	<b>247.0</b> <b>231.1</b>	197.4 190.2
Mustang Federal	4845GENSS 4440	STX VT3P	AC,P2 AC,P5V	96 94	<b>216.6</b> <b>216.3</b>	20.9 18.8	1 1	943 953	7 3	246.7 <b>255.4</b>	161.6 168.2	<b>231.7</b> <b>234.2</b>	<b>217.6</b> 184.0	<b>225.5</b> <b>239.9</b>	157.7 144.4
Viking Wensman	E22-92R W 7268VT3PRIB	VT2P,B VT3P,B	AC,P2 AC,P2	92 96	<b>216.1</b> 215.1	19.2 18.9	1 1	950 947	4 6	248.0 250.0	176.5 <b>184.9</b>	222.9 216.4	210.4 206.1	222.8 218.3	207.3 187.9
Titan Pro Rea	2M93-SS 4B285-RIB	STX,B VT2P,B	AC,P2,Z AC,P5V	93 93	214.9 214.3	20.5 17.6	2 2	938 950	10 5	252.9 249.0	164.5 168.9	<b>232.5</b> <b>236.2</b>	202.2 174.8	222.3 <b>242.8</b>	188.0 105.1
Pioneer Gold Country	P9917AMX GC 96-36R2P	AMX,B VT2P,B	CM,C2 AC,P5V	99 96	214.1 212.7	20.3 18.4	1 1	935 939	11 8	243.4 241.7	173.3 164.1	218.6 230.9	203.0 192.7	232.0 234.0	163.5 139.2
NuTech/G2 Gen Stine	5X-894 9209VT3Pro	HXT,RR2 VT3P	MQ,P1V,R AC,P2	94 91	212.3 212.1	18.0 19.1	2 1	939 933	9 13	237.3 234.0	181.1 161.5	229.9 213.9	202.5 <b>224.9</b>	210.9 226.2	160.7 189.6
Producers Kruger	5144VT3PRIB K4R-9194	VT3P,B STX,B	AC,P5V AC,P5V	91 94	211.8 210.3	18.4 18.1	1 2	935 930	12 14	231.3 242.0	165.4 172.6	220.3 228.0	215.7 197.0	226.2 211.9	190.6 92.8
Proseed Seeds 2000	1191SS 9504VT3P	STX,B VT3P	AC,P2 AC,P2	91 94	209.7 209.6	17.8 18.1	1 1	929 927	15 16	<b>254.8</b> 244.9	173.9 167.1	194.7 207.1	207.3 214.7	217.9 214.2	162.7 166.4
Kruger Wensman	KR-4195 W 80952VT2RIB	VT2P,B VT2P,B	AC,P5V AC,P2	95 95	209.6 209.1	18.6 17.7	1 1	924 927	18 17	<b>254.8</b> 240.1	167.0 155.8	210.2 228.3	207.2 185.6	209.0 235.6	169.0 175.0
AgVenture/Scherr Renk	VPmx RL4492HBW^ RK568VT3P	HXT,RR2 VT3P	P5 AC,P2	92 95	208.8 208.8	18.3 19.5	1 1	922 916	19 24	247.1 239.0	169.7 163.4	215.6 209.1	195.0 206.7	216.7 225.6	175.0 193.7
Kruger Viking	K4R-9091 E52-95R	STX,B VT2P,B	AC,P5V AC,P2	91 95	208.5 208.2	19.1 19.5	2 2	917 913	23 28	227.6 241.9	172.4 176.8	215.1 215.5	<b>217.3</b> 198.9	209.9 207.9	176.7 157.7
AgVenture/Scherr Rea	VPmx RL4616HBW^ GC 4B941-RIB	HXT,RR2 VT2P,B	CE,C1 AC,P2	94 94	208.0 207.9	18.0 18.8	2 2	920 916	20 25	245.8 248.1	183.0 174.8	215.5 220.7	180.5 195.3	215.3 200.6	157.8 140.5
Titan Pro Federal	93A94 4130	3000GT VT3P	CM,C2,Z AC,P2	94 91	207.5 207.1	17.8 17.6	1 1	919 918	21 22	239.7 244.6	175.2 155.3	215.3 219.4	189.1 212.9	218.4 203.5	159.6 167.1
Stine Rea	R9311VT3Pro 3A921-RIB	VT3P,B STX,B	AC,P2 AC,P5V	93 92	206.9 206.6	18.1 19.0	1 1	915 909	27 29	241.1 233.3	174.8 165.2	215.0 225.8	199.8 202.3	203.6 206.6	149.6 200.9
Producers Seeds 2000	5634VT3Pro 9202VT2PRIB	VT3P VT2P,B	AC,P5V CM,C2	96 92	206.5 206.3	19.1 17.4	1 3	908 916	30 26	239.9 232.0	170.0 160.1	211.6 204.4	176.3 212.8	234.8 222.4	166.1 207.4
Dekalb	DKC46-20RIB CK	VT3P,B	AC,P2	96	203.6	18.3	1	899	41	244.3	156.4	213.4	189.7	214.3	213.3
<b>Test Average =</b>					<b>205.1</b>	<b>18.7</b>	<b>2</b>	<b>904</b>		<b>237.8</b>	<b>164.9</b>	<b>213.0</b>	<b>195.9</b>	<b>213.6</b>	<b>173.1</b>
LSD (0.10) =					10.8	0.9	3			17.0	18.5	18.3	20.4	25.8	48.6

## FULL-SEASON TEST 97-100 Day CRM

Top 30 of 45 tested

AgVenture/Scherr Kruger	VPmx RL5718HBW^ K4R-9199	HXT,RR2 STX,B	P5 AC,P5V	99 99	<b>216.1</b> 214.8	20.5 21.9	5 1	943 930	1 3	260.9 <b>268.3</b>	<b>177.1</b> 166.5	<b>229.4</b> <b>220.3</b>	190.0 <b>206.9</b>	209.7 234.2	229.4 192.7
Proseed NuTech/G2 Gen	PX99C3000GT 3F-198AM	3000GT AM-R,B	CM,C2 MQ,C2	99 98	213.9 213.6	21.7 20.3	2 1	927 933	4 2	261.0 261.3	<b>182.5</b> 167.8	215.3 206.6	192.6 194.4	227.8 217.2	204.2 234.5
Channel Gold Country	197-68STXRIB GC 97-40RSS	STX,B STX,B	AC,P5V AC,P5V	97 97	213.2 211.8	23.2 21.3	2 3	916 920	7 6	251.7 260.0	174.6 158.4	203.9 217.8	203.7 200.8	209.9 228.3	235.1 205.6
Wensman Rea	W 7320VT3PRIB 5A980-RIB	VT3P,B STX,B	AC,P2 AC,P5V	101 98	211.5 210.0	24.6 19.2	1 3	901 923	12 5	241.6 248.9	<b>178.1</b> 169.4	218.8 202.5	185.4 199.9	233.4 221.5	211.4 217.6
Golden Harvest Titan Pro	G01P52-3011A GC TP 39-98 SS	3011A STX	AVC,C2 AC,P5V,Z	101 98	209.6 209.0	23.4 22.0	6 1	899 904	14 9	252.0 249.1	161.3 154.2	218.3 <b>208.5</b>	175.1 <b>206.5</b>	216.2 230.0	234.7 205.5
Dekalb Wensman	DKC50-66 GC W 9288STXRIB	VT3 STX,B	AC,P2 AC,P2	100 98	208.7 207.9	20.4 22.9	1 2	911 894	8 17	253.2 263.4	156.1 168.3	218.2 208.4	189.9 184.5	227.9 238.0	206.9 185.0
Wensman Rea	W 91011STX 5A992-RIB	STX STX,B	AC,P2 AC,P5V	101 99	207.6 207.4	23.0 21.1	3 2	893 902	19 10	255.0 256.0	171.2 154.1	210.3 219.6	188.0 180.9	226.8 214.2	194.2 219.8
Curry Viking	417-91 T71-99R	HXT,RR2 GT	MQ,C2,R CM,C2	97 99	207.4 207.0	21.0 21.0	4 3	902 900	11 13	258.8 250.6	166.4 <b>176.8</b>	210.5 <b>229.3</b>	168.5 173.8	219.4 200.3	220.6 211.2
Producers Rea	5898STXRIB 5A508-RIB	STX,B STX,B	AC,P5V AC,P5V	98 99	207.0 206.8	22.6 22.0	2 1	892 894	20 18	257.9 253.5	162.1 169.1	207.4 198.8	178.9 182.4	229.9 231.9	205.6 204.8
Wensman AgVenture/Scherr	W 70975VT3PRO VPmx R5849AMX^ GC	VT3P AMX,B	AC,P2 P5	97 99	206.4 206.3	20.7 21.0	1 1	899 897	15 16	256.5 230.9	147.0 171.5	223.4 214.4	160.4 194.6	230.9 215.1	220.3 211.0
Titan Pro Curry	89A98GLV 420-45	3111 HXT,RR2	CM,C2,Z MQ,C2,R	98 100	206.0 205.5	22.2 22.1	8 1	890 888	22 23	241.0 251.6	149.5 156.5	221.3 201.6	183.6 188.8	223.7 235.5	217.0 199.2
Titan Pro Proseed	1M99-3P PX101RVT3P	VT3P VT3P	AC,P5V,Z AC,P2	99 101	204.7 204.6	20.9 22.2	1 1	891 884	21 25	235.1 246.6	155.6 156.5	217.0 200.7	195.5 188.9	220.6 214.7	204.2 220.4
Kruger Renk	KR-7400 RK598SSTX	VT3P,B STX,B	AC,P5V AC,P5V	100 100	203.6 203.0	21.1 22.0	3 1	885 878	24 27	247.1 236.9	154.4 143.7	209.5 206.1	179.1 200.3	227.8 228.7	203.6 202.1
Titan Pro Producers	2M00-SS 5904VT3PRIB	STX VT3P,B	AC,P1V AC,P5V	100 99	202.6 202.1	22.0 20.4	3 4	876 882	29 26	244.2 260.7	144.9 146.7	204.0 212.2	183.3 172.3	218.7 225.2	220.4 195.5
Proseed Rea	PX97SSR 4A971-RIB	STX,B STX,B	AC,P2 AC,P5V	97 97	202.1 200.2	21.2 20.0	1 1	878 876	28 30	254.7 249.4	151.0 134.6	193.6 208.1	163.6 189.8	227.4 220.6	222.0 198.6
Dekalb	DKC46-20RIB CK	VT3P,B	AC,P2	96	198.1	19.6	1	869	32	246.7	164.9	206.5	166.6	210.3	193.7
<b>Test Average =</b>					<b>204.2</b>	<b>21.7</b>	<b>2</b>	<b>885</b>		<b>250.6</b>	<b>158.6</b>	<b>207.9</b>	<b>183.5</b>	<b>218.2</b>	<b>206.4</b>
LSD (0.10) =					10.9	1.2	ns			17.1	17.6	17.6	21.6	20.1	28.9

# = rejected results, early-season test not included in summary



**Corn Stats:**

Yield Range: 183.0-215.7 bu. per acre  
 Yield Average: 200.2 bu. per acre  
 Top \$ Per Acre: \$946

**Corn Field Notes: South Dakota Southeast**

Mark Tollefson, FIRST Manager

**Beresford**—Many of the corn stalks had broken off above the ear at harvest. I noticed some minor stalk and ear lodging as well. In the late-season test there were some widely varied yields, which could be attributed to the dry weather in July and variable soil type here. In both tests, grain moisture was dry, resulting in an easy harvest. Overall, grain yield was very good here, averaging 172.9 bu. per acre in the early-season test and 159.1 bu. per acre in the full-season test. The Beresford site had very good weed control and there was minimal disease present.

**Chancellor**—This was my best-looking test site in July with really good early-season vigor and full dark green leaves. Good stands at harvest with no lodging issues, coupled with both tests having clean, dry corn, helped make for good harvest conditions. This area got hit with drought last year so it was nice to see good yields this year averaging 198.3 bu. per acre in the early-season

test and 201.1 bu. per acre in the full-season test.

**Colton**—This site had good stalk health at harvest with some very tall corn; most hybrids had tassels attached. We did have some minor stalk lodging in areas but ear shanks held well and were much tougher than in any other area so far this year. Reports of 270 bu. per acre on combine yield monitors have been seen in parts of some of the local fields. We have some very nice test plot yields at this site as well. They averaged 222.7 bu. per acre in the early-season test and 238.4 bu. per acre on the full-season test.

**Ethan**—With July rainfall 1.5" above the 30-year average and near-normal August rainfall, this location was able to produce some good yields. These tests had uniform stands and looked excellent from one end to the other. The crop and grain were both dry, creating excellent harvest conditions. This test yielded an average of 184 bu. per acre in the early-season test and 199.3 bu. per acre in the full-season test.

**Flandreau**—The Flandreau test site was planted on May 15 this year. Heavier soils at this location and September rain have contributed to increased grain moisture in these tests. Stalk health at this site is the best I've seen in South Dakota this year. These tests have looked terrific throughout the growing season and we ended up with some superior yields. The average early-season test yield was 220.5 bu. per acre followed by an average of 218.5 bu. per acre on the full-season test.

**Salem**—Weak ear shanks resulted in ears easily falling off the plant during harvest, and most of the leaves had been blown off the stalks as well. Both the early- and full-season tests had dry corn and harvest went well. Timely rains helped produce good yields as July and August rainfalls both slightly exceeded the 30-year averages for the area. Yield averages were 192.3 bu. per acre and 195 bu. per acre in the early- and full-season test, respectively.

Site Information						2013 Rainfall (inches)					
South Dakota Southeast						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Beresford	silty clay loam	conventional	soybean	150	5/15	5.99	4.22	1.97	5.75	-1.31	2.90
Chancellor	silty clay loam	conventional	soybean	125	5/14	8.17	6.17	0.78	3.75	-2.29	0.85
Colton	silty clay loam	conventional	soybean	170	5/14	3.77	2.98	1.25	2.72	-2.28	-0.81
Ethan	loam	no-till	soybean	125	5/25	3.89	3.01	4.07	2.94	1.48	-0.11
Flandreau	clay loam	conventional	soybean	140	5/15	3.23	4.94	1.90	2.83	-1.64	-0.67
Salem	clay loam	minimum	soybean	106	5/13	7.34	8.02	3.84	3.19	0.35	0.03

Rainfall obtained on-site (\* denoted) or estimated from [www.weatherplot.com](http://www.weatherplot.com). Rainfall Normals (1981-2010) from National Climatic Data Center.

# FIRST South Dakota Southeast Corn Results



## EARLY-SEASON TEST 98-103 Day CRM

Top 30 of 63 tested

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Beresford	Chancellor	Colton	Ethan	Flandreau	Salem
Producers Renk	6108STXRIB RK666SSTX	STX,B STX	AC,P5V AC,P2	101 102	<b>210.7</b> <b>210.6</b>	17.9 17.5	1 2	933 935	2 1	179.5 <b>192.9</b>	206.4 205.4	234.9 233.0	182.6 189.4	<b>240.2</b> 238.1	<b>220.7</b> 204.9
LG Seeds Proseed	LG5499STXRIB PX99C3000GT	STX,B 3000GT	AC,P5V CM,C2	100 99	<b>208.7</b> 208.0	17.8 16.5	1 1	925 928	4 3	186.2 170.3	205.8 <b>217.5</b>	229.2 227.1	197.8 <b>207.3</b>	221.0 232.8	212.1 192.8
Curry Titan Pro	422-09 1M02-SS	HXT,RR2 STX	MQ,C2,R AC,P1V,Z	102 102	206.7 206.6	18.2 18.5	2 4	914 912	7 8	174.5 185.0	212.9 213.1	229.0 226.4	188.1 195.3	216.3 227.3	<b>219.2</b> 192.7
Great Lakes Kruger	4879STXRIB K4R-9901	STX,B STX,B	AC,P5V AC,P5V	98 101	206.5 206.1	17.5 17.5	3 2	916 915	5 6	161.1 173.6	188.2 201.4	240.3 <b>252.7</b>	194.1 170.6	237.0 <b>240.6</b>	<b>218.5</b> 197.4
Wensman Great Lakes	W 7320VT3PRIB 5283STXRIB	VT3P,B STX,B	AC,P2 AC,P5V	101 102	206.0 205.8	18.2 17.9	2 2	911 911	9 10	175.4 164.5	201.1 216.7	234.4 <b>246.8</b>	200.2 179.8	235.9 223.5	189.0 203.3
Prairie Brand Producers	1022SX 5898STXRIB	STX STX,B	CM,C1 AC,P5V	100 98	205.2 203.4	18.0 17.4	2 1	908 903	11 13	<b>191.4</b> 155.8	199.8 201.7	229.4 243.7	185.8 184.6	221.9 228.8	203.1 205.6
NuTech/G2 Gen Titan Pro	3D-802AMX TP 39-02 SS	AMX-R,B STX	MQ,C2 AC,P5V,Z	102 102	203.0 203.0	17.5 17.6	2 1	901 900	14 15	183.9 169.5	209.2 212.9	212.7 236.9	186.9 188.2	217.1 227.5	208.4 183.1
Titan Pro LG Seeds	TP 35-01 2P LG5522VT3PRIB	VT2P VT3P,B	AC,P2,Z AC,P5V	101 103	202.6 202.6	18.0 18.3	1 3	897 892	18 23	180.3 184.1	207.2 194.8	235.9 <b>247.9</b>	188.4 180.2	221.4 221.0	182.5 187.6
Renk NuTech	RK629VT3P 5N-9802	VT3P 3000GT	AC,P2 MQ,C2	102 98	202.5 202.4	17.4 16.2	2 1	899 905	16 12	171.5 169.9	205.4 205.5	230.3 230.4	190.8 192.1	<b>239.8</b> 213.0	177.4 203.2
Wensman Wensman	W 9325STXRIB W 7290VT3PRIB	STX,B VT3P,B	AC,P2 AC,P2	102 99	201.9 201.6	17.5 16.7	1 2	896 899	20 17	172.4 159.4	204.1 206.1	226.5 228.7	178.2 183.5	225.8 226.2	204.5 205.7
Kruger Mustang	K4R-9199 5850GENSS	STX,B STX	AC,P5V AC,P2	99 100	201.4 201.3	16.9 18.0	1 1	897 891	19 25	160.7 <b>196.6</b>	200.9 193.7	236.4 210.3	178.4 184.5	227.6 206.5	204.3 <b>216.3</b>
Wensman Heine	W 9288STXRIB 733VT3	STX,B VT3	AC,P2 AC,P2	98 102	201.2 200.9	17.2 17.4	3 1	894 892	22 24	183.3 163.3	196.9 186.1	217.9 235.0	181.6 189.3	225.0 237.9	202.4 193.6
Pioneer Dekalb	P0062AMX GC DKC49-29RIB GC	AMX,B STX,B	CM,C2 AC,P2	100 99	200.6 200.0	16.5 16.9	2 1	895 891	21 26	174.1 165.7	199.6 198.4	225.2 212.0	196.3 196.1	214.5 227.9	193.6 199.9
Dekalb LG Seeds	DKC53-56RIB GC LG5470STXRIB	STX,B STX,B	AC,P5V AC,P5V	103 98	200.0 199.3	18.2 17.1	1 3	884 886	29 27	179.9 159.9	178.8 210.4	228.0 218.1	189.2 179.3	<b>239.2</b> 219.5	184.7 208.5
Pfister Producers	1821RA 5904VT3PRIB	STX,B VT3P,B	CM,C2 AC,P5V	100 99	198.4 198.1	16.6 16.5	1 3	885 884	28 30	182.7 156.0	207.7 191.5	229.7 237.4	169.1 197.7	208.3 223.7	192.9 182.3
Dekalb <b>Test Average =</b>	DKC52-59 CK	VT3	AC,P2	102	193.5	16.4	1	864	50	151.7	201.3	213.6	194.0	223.7	176.4
LSD (0.10) =					10.0	0.7	2			14.9	19.1	21.2	18.1	18.5	21.5

## FULL-SEASON TEST 104-107 Day CRM

Top 30 of 42 tested

Renk Heine	RK776VT3P 790VT3Pro	VT3P VT3P	AC,P2 AC,P2	107 106	<b>215.7</b> 213.6	19.5 19.9	3 3	946 935	1 2	168.3 144.2	<b>225.2</b> 217.3	<b>261.9</b> <b>273.2</b>	192.9 213.2	<b>247.9</b> 237.0	197.8 196.7
NuTech/G2 Gen Kruger	5H-707 KR-7506	HX,RR2 VT3P,B	MQ,P1V,R AC,P5V	107 106	211.3 209.5	19.4 19.4	3 1	928 920	3 5	<b>189.2</b> 152.1	214.1 205.7	235.6 236.1	205.7 219.6	229.7 <b>219.8</b>	193.6
Dairyland Mustang	DS99306 7805GENSS	3000GT STX	CM,C2 AC,P2	106 105	209.2 209.1	18.1 19.4	4 2	925 918	4 6	175.1 157.8	199.8 209.9	242.4 246.4	211.4 210.8	231.1 229.2	195.3 200.4
Kruger Renze	K4R-9306 2224-3000GT	STX,B 3000GT	AC,P5V CM,C2	106 104	208.4 208.0	21.3 18.7	1 4	905 917	11 7	153.7 157.1	193.1 <b>226.8</b>	246.2 230.1	216.7 203.5	225.7 228.6	<b>214.7</b> 201.9
Heine Wensman	798STX W 7330VT3PRIB	STX VT3P,B	AC,P2 AC,P2	107 104	207.6 207.4	20.9 18.7	1 1	904 914	13 8	168.0 177.1	214.1 202.9	243.5 254.4	210.4 200.7	211.1 217.2	198.2 192.1
NuTech/G2 Gen Titan Pro	5H-806 TP 39-05 SS	HX,RR2 STX	MQ,C2 AC,P2,Z	106 105	206.6 206.1	19.4 19.3	2 1	907 905	9 12	168.8 154.2	202.8 194.7	238.4 242.8	212.9 203.3	230.2 222.3	186.3 <b>219.1</b>
NuTech/G2 Gen Great Lakes	5H-805 5785VT3PRIB	HX,RR2 VT3P,B	MQ,P1V,R AC,P5V	105 107	205.6 204.3	18.5 19.7	1 1	907 895	10 15	162.4 <b>197.8</b>	192.2 189.8	249.8 241.7	197.6 192.3	226.8 221.0	205.0 183.3
Titan Pro Kruger	2M04-2P K4R-9304	VT2P,B STX,B	AC,P2,Z AC,P5V	104 104	204.3 203.7	19.7 18.9	3 2	895 897	16 14	168.6 157.7	200.1 204.4	241.1 236.9	209.1 206.3	223.2 218.4	183.6 198.4
Wensman Kruger	W 91073STXRIB K4R-9205	STX,B STX,B	AC,P5V AC,P5V	107 105	203.6 203.1	19.6 19.0	3 2	893 894	18 17	129.7 146.2	<b>220.1</b> 214.7	231.9 223.8	212.4 194.6	224.9 229.5	202.6 209.6
Renk Stine	RK752SSTX 9632SS	STX,B STX	AC,P5V CM,C2	105 107	203.1 202.6	19.6 19.9	2 4	891 887	19 20	149.8 151.0	203.0 205.8	241.7 247.3	204.8 206.9	229.3 209.9	189.7 194.9
Titan Pro LG Seeds	2M07-SS LG5533VT3P	STX,B VT3P	AC,P5V,Z AC,P5V	107 107	202.0 201.7	20.3 19.6	4 1	882 884	24 22	154.3 163.0	204.5 <b>220.3</b>	222.4 238.6	207.4 189.7	214.9 209.5	208.5 189.0
Producers Great Lakes	6884VT3PRIB 5688STX	VT3P,B STX	AC,P5V AC,P5V	107 106	201.7 200.0	19.6 19.4	2 2	884 878	23 26	<b>194.4</b> 136.9	195.4 196.2	252.0 <b>261.8</b>	185.3 195.9	204.0 213.1	178.9 196.1
LG Seeds Stine	LG5524VT3P 9534VT3Pro	VT3P VT3P	AC,P5V AC,P2	105 106	199.9 199.8	18.9 19.5	1 4	880 877	25 27	168.2 172.7	186.1 198.6	239.5 222.0	196.5 190.1	223.3 225.0	185.8 190.3
Heine NuTech/G2 Gen	810VT3Pro 5H-905	VT3P HX,RR2	AC,P2 MQ,C2	107 105	199.8 199.6	20.1 17.6	3 1	874 885	29 21	163.0 139.9	205.0 195.0	217.4 234.6	211.6 218.9	217.4 216.3	184.2 193.1
Renze Producers	3264SST 6734VT3Pro	STX VT3P	CM,C2 AC,P5V	107 107	199.6 198.2	19.8 18.2	2 2	874 876	30 28	160.6 129.9	189.3 206.0	244.1 242.2	194.1 194.9	221.0 226.4	188.2 189.6
Dekalb <b>Test Average =</b>	DKC52-59 CK	VT3	AC,P2	102	192.0	16.3	1	858	39	141.5	198.1	218.0	196.8	221.5	176.3
LSD (0.10) =					11.8	1.3	2			28.3	17.3	21.9	21.0	19.9	19.5



**Corn Stats:**  
 Yield Range: 183.9-219.5 bu. per acre  
 Yield Average: 201.7 bu. per acre  
 Top \$ Per Acre: \$945

## Corn Field Notes: Minnesota West Central

Mark Querna, FIRST Manager

**Bird Island**—A 5" rain in June caused ponding on this site, especially for the early-season test. Overall yield and data quality were reduced a bit as a result. However, stalks stood well at harvest. The saturated soils, along with a delayed killing frost date, allowed the full-season products to reach blacklayer even without much rainfall from July through harvest. The early-season test yielded 190.8 bu. per acre while the full-season test yielded 193 bu. per acre.

**Clinton**—This site was planted on my second day of test plot seeding. Wet weather through June slowed crop development but also recharged dry soils. Unfortunately, very little rain fell here in July and August. The field surrounding the test plot site yielded 175 to 180 bu. per acre at 19% moisture, but FIRST farmer Doug Nelson noted that one more rain in July would have bumped averages up to 200 bu. per acre. Nathan Nelson, Doug Nelson's son, told me that this fall he could definitely see where the sand veins

in the fields were because of quick drops on the yield monitor.

**Glencoe**—This was the first site I planted this year. A cold, wet spring delayed field operations into May and the weather stayed cool and wet through June. July was drier and August was both dry and warm. An Aug. 4 rainfall of 2.8" helped pull the crop to maturity. There was not a killing frost until mid-October and that also helped the full-season products reach physiological maturity.

**Granite Falls**—This site got off to an excellent start, but two-thirds of the test plots spent two days under water in early June due to a 5" rainfall. The plants showed amazing resiliency, bouncing back with tremendous yields. FIRST farmer member Keith Beito noted that a lot of corn was pushed over by high winds from Renville to Marshall but that this site stood well at harvest. The higher-yielding products had ears that looked like footballs as they came through the combine.

**Litchfield**—Rain in April delayed planting until May 12 but soil condi-

tions were excellent when seeded. Rain in May and June was not as excessive here so the crop got off to a good start. It was cool and dry in July. August stayed dry but warmed considerably, helping the corn to finish well. The full-season test was located on slightly higher ground and frost held off until mid-October, allowing these hybrids to reach maximum economic yield. The early-season test had an average yield of 202.5 bu. per acre and the full-season test produced 223.6 bu. per acre.

**Nicollet**—Spring rain delayed planting here until May 24. June stayed wet but was then followed by only light rain in July and August. This test plot was a well-drained field with no irrigation. Harvest saw the plants standing perfectly with no lodging. Yields were excellent here, considering all the weather challenges experienced this year. The average yield in the early-season test was 202.3 bu. per acre and this was followed by a slight increase to 204.1 bu. per acre for the full-season test.

Site Information Minnesota West Central						2013 Rainfall (inches)					
						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Bird Island	clay loam	conventional	soybean	160	5/10	2.17	6.12	1.64	1.04	-1.92	-2.45
Clinton	silty clay loam	conventional	soybean	150	5/11	2.49	6.97	2.15	1.41	-1.44	-1.70
Glencoe*	clay loam	conventional	corn, 2+ yr	165	5/10	10.00	10.00	4.00	3.00	-0.37	-1.43
Granite Falls*	clay loam	minimum	soybean	157	5/12	n/a	7.00	2.10	3.20	-0.92	-0.07
Litchfield*	clay loam	minimum	soybean	246	5/12	2.18	5.34	1.41	1.26	-2.42	-2.60
Nicollet	clay loam	minimum	soybean	155	5/24	4.12	5.16	2.73	1.66	-1.56	-2.56

Rainfall obtained on-site (\* denoted) or estimated from [www.weatherplot.com](http://www.weatherplot.com). Rainfall Normals (1981-2010) from National Climatic Data Center.

# FIRST Minnesota West Central Corn Results



## EARLY-SEASON TEST 93-98 Day CRM

Top 30 of 72 tested

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Bird Island	Clinton	Glencoe	Granite Falls	Litchfield	Nicollet
Channel Renk	197-68STXRIB RK522SSTX	STX,B STX	AC,P5V AC,P2	97 94	<b>217.0</b> <b>212.7</b>	21.7 19.9	0 0	940 931	1 3	193.7 205.7	<b>196.7</b> 180.1	<b>241.9</b> 219.9	210.7 <b>236.0</b>	<b>234.5</b> <b>220.7</b>	<b>224.7</b> 213.6
NuTech	5N-9802	3000GT	MQ,C2	98	<b>211.8</b>	20.1	0	926	5	<b>215.2</b>	184.0	218.9	225.0	216.8	211.1
Dyna-Gro	D34VC52	VT2P	AC,P5V	94	<b>210.8</b>	19.0	0	928	4	199.8	181.1	<b>231.9</b>	<b>233.6</b>	194.5	<b>223.9</b>
Dahlman	R49-312SSRIB	STX,B	AC,P2	98	<b>207.8</b>	20.3	0	908	9	<b>211.5</b>	175.2	223.7	220.4	202.6	213.2
NuTech/G2 Gen	3F-198AM	AM-R,B	MQ,C2	98	207.1	18.3	0	915	6	194.6	180.6	217.0	225.9	200.2	<b>220.8</b>
LG Seeds	LG5444VT3PRIB	VT3P,B	AC,P5V	96	206.5	18.0	0	914	7	191.9	178.2	<b>213.3</b>	<b>235.1</b>	208.0	212.6
Producers	5634VT3Pro	VT3P	AC,P5V	96	206.4	19.1	0	908	10	194.2	186.9	218.0	219.8	208.0	211.3
Enestvedt	E652VT3P	VT3P	CM,C2	95	206.4	19.4	0	906	11	191.0	183.5	216.9	216.0	213.8	217.3
Channel	196-77STXRIB	STX,B	AC,P5V	96	205.8	19.4	0	903	12	178.8	175.9	216.7	218.4	<b>227.1</b>	217.6
Titan Pro	2M95-2P	VT2P,B	AC,P2,Z	95	205.8	19.9	0	901	14	197.3	179.0	217.8	218.8	202.3	<b>219.4</b>
LG Seeds	LG5470STXRIB	STX,B	AC,P5V	98	205.6	20.9	0	895	18	188.2	160.3	<b>228.9</b>	221.7	216.4	218.0
Dahlman	R47-35VT3PRIB	VT3P,B	AC,P2	94	205.3	19.3	0	902	13	<b>209.2</b>	172.1	219.9	218.7	199.3	212.5
Prairie Brand	4284SX	STX	P5V	93	205.2	17.9	0	909	8	200.7	177.6	201.5	214.0	<b>221.9</b>	215.3
Wensman	W 9288STXRIB	STX,B	AC,P2	98	205.1	21.9	0	888	22	198.6	173.6	223.9	221.0	198.1	215.3
Latham	LH4455VT3PRO	VT3P,B	AC,P5V	94	204.2	19.6	0	895	19	183.8	186.7	212.0	216.9	207.6	<b>218.3</b>
Renk	RK568VT3P	VT3P	AC,P2	95	204.0	19.1	0	897	16	205.3	171.2	221.8	208.6	209.9	207.2
Dekalb	DKC46-20RIB GC	VT3P,B	AC,P2	96	203.9	18.4	0	900	15	<b>213.1</b>	170.0	224.2	218.2	192.8	205.3
Producers	5898STXRIB	STX,B	AC,P5V	98	203.9	21.0	0	887	23	193.3	159.8	<b>239.8</b>	221.1	209.8	199.3
LG Seeds	LG5425STX	STX	AC,P5V	95	202.5	18.2	0	895	20	206.3	<b>193.5</b>	202.7	216.0	205.9	190.5
Anderson	615VT3P	VT3P	CE,C2	98	201.8	18.2	0	892	21	<b>210.0</b>	163.9	223.4	225.3	196.1	192.3
Viking	VS94-571	VT2P,B	AC,P2	94	201.7	21.1	0	877	30	191.7	185.5	211.5	215.1	200.4	205.9
Dekalb	DKC43-48RIB GC	VT3P,B	AC,P2	93	201.6	17.2	1	896	17	190.5	168.1	224.1	221.4	200.4	204.9
Stine	R9311VT3Pro	VT3P,B	AC,P2	93	200.4	18.0	0	887	24	185.5	182.0	208.7	207.9	207.9	210.3
Gold Country	99-33RSS	STX,B	AC,P5V	99	200.2	18.7	0	882	25	182.5	186.6	207.1	218.0	193.8	213.4
Gold Country	93-07RSS	STX,B	AC,P5V	93	199.8	18.8	0	880	27	195.1	176.9	202.5	<b>233.2</b>	191.0	199.9
Latham	LH4568VT3PRO	VT3P,B	AC,P2	95	199.5	18.2	0	882	26	177.3	170.6	226.7	201.1	216.8	204.7
Wensman	W 90967STX	STX	AC,P2	96	199.5	18.5	0	880	28	201.2	175.6	198.4	206.6	207.3	207.9
Pioneer	P9526AMX GC	AMX,B	CM,C2	95	199.4	19.1	0	877	31	198.4	160.9	205.6	221.5	<b>221.6</b>	188.4
Titan Pro	1M96-3P	VT3P,B	AC,P2,Z	96	198.6	17.9	0	879	29	187.5	187.0	213.4	214.6	193.3	196.0
Dekalb	DKC48-12RIB CK	STX,B	AC,P2	98	<b>212.1</b>	19.3	0	932	2	198.5	<b>193.9</b>	205.5	<b>235.4</b>	<b>225.5</b>	213.8
<b>Test Average =</b>					<b>198.3</b>	<b>18.9</b>	<b>0</b>	<b>873</b>		<b>190.8</b>	<b>172.1</b>	<b>209.5</b>	<b>212.5</b>	<b>202.5</b>	<b>202.3</b>
LSD (0.10) =					9.0	1.1	ns			18.4	17.0	18.3	18.8	14.6	16.0

## FULL-SEASON TEST 99-102 Day CRM

Top 30 of 48 tested

Jung	7S522RIB	STX,B	AC,P5V	101	<b>219.5</b>	24.4	0	936	3	196.5	<b>207.8</b>	<b>246.7</b>	203.6	<b>244.4</b>	217.8
Titan Pro	TP 39-02 SS	STX	AC,P5V,Z	102	<b>219.2</b>	23.3	0	941	2	203.6	190.6	<b>242.7</b>	212.0	<b>242.6</b>	<b>223.5</b>
Pioneer	P0062AMX GC	AMX,B	CM,C2	100	<b>217.5</b>	21.2	0	945	1	<b>212.5</b>	197.1	<b>241.4</b>	206.3	<b>239.0</b>	208.6
Latham	LH5215VT2PRO	VT2P	AC,P2	101	<b>217.5</b>	25.2	0	923	6	207.6	<b>210.1</b>	209.5	<b>233.7</b>	<b>237.1</b>	206.8
Gold Country	102-88RSS	STX,B	AC,P5V	102	<b>215.6</b>	23.7	0	923	7	194.5	168.0	236.4	217.7	<b>252.0</b>	<b>225.1</b>
Wensman	W 9325STXRIB	STX,B	AC,P2	102	213.8	23.6	0	916	8	193.2	193.1	235.8	<b>221.1</b>	<b>240.9</b>	198.8
Wensman	W 91011STX	STX	AC,P2	101	213.7	24.2	0	912	11	205.1	191.6	234.3	211.5	220.6	218.8
Latham	LH5219SS	STX,B	AC,P5V	102	213.7	26.7	0	899	20	209.5	<b>207.2</b>	210.7	205.6	230.7	218.3
Producers	6108STXRIB	STX,B	AC,P5V	101	213.3	23.6	0	914	9	<b>211.8</b>	<b>203.2</b>	213.2	<b>225.1</b>	<b>237.1</b>	189.2
Jung	7S506RIB	STX,B	AC,P5V	100	212.4	20.8	0	925	5	198.8	190.8	226.9	<b>221.1</b>	<b>229.1</b>	207.4
Dyna-Gro	D39VP14RIB	VT3P,B	AC,P5V	99	211.1	21.9	0	914	10	209.8	183.8	225.2	193.3	228.2	<b>226.1</b>
LG Seeds	LG5499STXRIB	STX,B	AC,P5V	100	210.4	23.9	0	900	19	202.0	195.5	230.6	208.6	<b>240.1</b>	184.7
Gold Country	98-38RSS	STX,B	AC,P5V	98	209.9	21.4	0	911	12	191.6	188.9	225.0	212.1	228.8	212.7
Renk	RK633SSTX	STX	AC,P2	101	209.9	23.1	0	902	17	194.9	190.2	222.6	213.7	233.9	203.9
Dekalb	DKC52-04RIB GC	VT3P,B	AC,P2	102	209.7	21.9	0	907	14	191.3	196.9	235.4	203.2	222.4	209.0
Titan Pro	TP 39-00 SS	STX	AC,P5V	100	209.2	21.7	0	906	15	188.3	194.9	211.7	218.2	231.0	211.3
Dahlman	R50-306SSRIB	STX,B	AC,P5	101	209.1	20.7	0	911	13	191.3	200.1	221.2	215.7	220.0	206.2
Wensman	W 7320VT3PRIB	VT3P,B	AC,P2	101	208.9	22.8	0	899	21	168.4	196.4	224.0	212.6	221.9	<b>230.3</b>
Renk	RK666SSTX	STX	AC,P2	102	208.5	22.2	0	901	18	178.8	193.7	236.0	202.2	<b>237.3</b>	203.0
Enestvedt	E671VT3P	VT3P	CM,C2	100	207.6	21.0	0	903	16	194.1	191.7	224.4	200.9	221.3	213.4
Gold Country	100-95R3P	VT3P,B	AC,P5V	100	206.2	21.3	0	895	23	194.9	187.5	220.6	203.2	225.2	205.5
Renk	RK598SSTX	STX,B	AC,P5V	100	205.7	21.5	0	892	24	202.5	177.8	216.3	212.8	223.9	201.1
LG Seeds	LG2501VT3PRIB	VT3P,B	AC,P5V	100	205.2	19.9	0	898	22	184.5	185.8	227.5	202.6	221.8	208.7
NuTech/G2 Gen	5Z-0105	OI	MQ,P1V,R	101	204.9	22.5	0	884	25	196.4	166.9	215.2	196.4	231.7	<b>222.6</b>
Latham	LH5185VT2PRO	VT2P,B	AC,P5V	101	204.1	22.1	0	882	28	182.3	180.7	235.6	190.1	220.5	215.2
NuTech/G2 Gen	5H-202	HX,RR2	MQ,C2	102	204.0	21.6	0	884	26	187.8	170.9	229.2	205.0	227.4	203.7
Dahlman	R50-33VT3PRIB	VT3P,B	AC,P2	100	202.9	20.9	0	883	27	182.8	179.8	232.4	213.7	221.6	186.9
Viking	VS100-511	STX,B	AC,P2	100	202.9	21.9	0	878	31	194.4	176.4	219.7	199.7	224.6	202.3
Producers	5904VT3PRIB	VT3P,B	AC,P5V	99	201.0	19.7	0	881	29	181.8	178.7	223.7	198.8	215.7	207.4
Anderson	537R	RR2	M	101	199.7	19.0	0	879	30	193.1	172.5	224.6	189.4	225.2	193.3
Dekalb	DKC48-12RIB CK	STX,B	AC,P2	98	214.1	20.5	0	934	4	<b>212.4</b>	186.6	<b>242.8</b>	<b>219.8</b>	<b>235.1</b>	211.7
<b>Test Average =</b>					<b>205.0</b>	<b>22.3</b>	<b>0</b>	<b>885</b>		<b>193.0</b>	<b>185.3</b>	<b>221.6</b>	<b>202.4</b>	<b>223.6</b>	<b>204.1</b>
LSD (0.10) =					9.7	1.1	ns			17.7	17.2	18.8	17.1	12.0	18.0



Mark Querna, FIRST Manager



## Corn Field Notes: Minnesota Southwest

### Corn Stats:

Yield Range: 169.3-213.0 bu. per acre  
 Yield Average: 194.8 bu. per acre  
 Top \$ Per Acre: \$938

**Easton**—Planting conditions here were very moist. Persistent rain delayed field operations and continued through June, when I observed water standing in nearby fields. July and August were quite dry so it is surprising that the corn here was as good as it was. FIRST farmer member Tom Warmka noted that they were disappointed with soybean yields but were quite happy with what they had seen in their corn fields this fall.

**Jackson**—Planting conditions were quite good despite persistent spring rainfall that delayed field operations. The rain continued, dropping 15" in May and 7.46" in June (including 5" in one day). The rain stressed corn development. The amount of rain tapered to only 0.22" in July and 2.95" in August. This rapid soil moisture change had FIRST farmer member Steve Ryberg believing yields would be below average; while field variations are more evident this year, yields overall are quite good.

**Jeffers**—The corn surrounding this site was at the V2 stage when these tests were planted. The tests

were planted into saturated soil, but continued rain in June helped with stand establishment. Yields in the tests never caught up to those of the corn that was planted earlier. FIRST farmer member Rick Quade told me the corn around the test was at 21% moisture. Yields have varied across his land, but his brother's field three miles west yielded 225 bu. per acre; that site got more rain at pollination time.

**Lake Crystal**—This is the only corn test site I managed this year that looked tremendous from planting through harvest. Plenty of moisture was available through June but it was not as excessive as it was in other areas of Minnesota. July and August were warmer, allowing the crop to reach maturity. Rainfall in July and August was more plentiful here than at many other sites in Minnesota. The moisture through pollination and seed fill, coupled with a very late frost on Oct. 20, allowed this crop to reach maturity with excellent quality.

**Redwood Falls**—A cold, wet April delayed planting here until May 13.

Emergence and early growth were excellent here in Redwood Falls. The test plot site looked amazing when I took stand counts in mid-June. Steve Prokosch noted that temperatures were excellent for ear determination, but then the weather became quite dry at the V7 stage. No frost occurred until mid-October and this allowed full-season hybrids to reach black-layer. Yields were markedly lower in areas that were lower on this level site. I believe that in these areas the roots did not fully develop, restricting nutrient uptake when it became dry.

**Tracy**—This site has been continuous corn for three years. FIRST farmer member Brian Hicks added lime last fall as part of a long-term soil-management program. This year had the wettest spring ever seen in this area and that delayed planting until May 13. A "duck drowner" rain of 5" fell mid-June, causing uneven plant development in these soils. Rain was almost non-existent in July and August, taking the top off these yields. Average yield here was 193.4 bu. per acre.

Site Information Minnesota Southwest						2013 Rainfall (inches)					
						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Easton	clay loam	minimum	soybean	140	6/1	3.55	9.38	4.82	1.58	0.39	-3.02
Jackson*	clay loam	minimum	soybean	165	5/14	4.15	7.46	0.22	2.95	-3.56	-1.09
Jeffers*	clay loam	minimum	soybean	120	6/2	10.00	10.00	0.50	1.50	-3.55	-2.02
Lake Crystal	clay loam	minimum	soybean	140	5/13	3.71	5.63	1.52	2.25	-2.80	-1.93
Redwood Falls	clay loam	conventional	soybean	180	5/13	3.39	5.54	0.61	1.78	-3.03	-1.88
Tracy	silty clay loam	conventional	corn, 2+ yr	150	5/13	5.20	7.33	0.86	1.31	-2.31	-1.86

Rainfall obtained on-site (\* denoted) or estimated from [www.weatherplot.com](http://www.weatherplot.com). Rainfall Normals (1981-2010) from National Climatic Data Center.

# FIRST Minnesota Southwest Corn Results



## EARLY-SEASON TEST 96-101 Day CRM

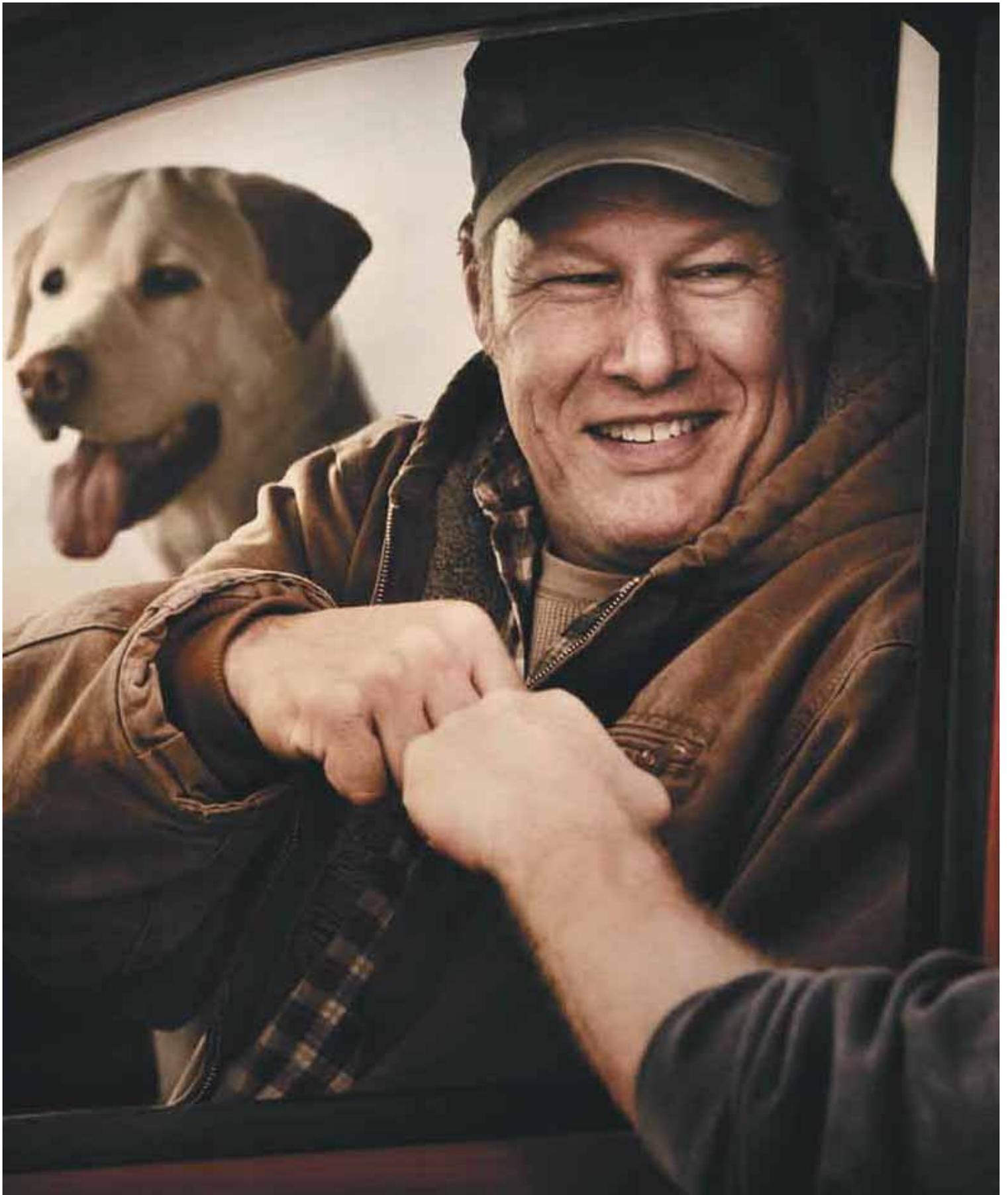
Top 30 of 63 tested

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Easton	Jackson	Jeffers	Lake Crystal	Redwood Falls	Tracy
Channel	197-68STXRIB	STX,B	AC,P5V	97	<b>213.0</b>	18.9	0	938	1	<b>210.3</b>	216.6	187.1	<b>246.6</b>	191.3	<b>226.3</b>
Gold Country	102-88RSS	STX,B	AC,P5V	102	<b>207.3</b>	19.7	0	908	3	<b>211.6</b>	200.5	<b>195.3</b>	<b>241.4</b>	178.7	<b>216.0</b>
Jung	7S506RIB	STX,B	AC,P5V	100	<b>206.8</b>	19.0	0	910	2	<b>206.9</b>	205.8	186.0	<b>238.1</b>	197.7	206.0
LG Seeds	LG5499STXRIB	STX,B	AC,P5V	100	<b>206.5</b>	20.5	0	901	6	<b>208.1</b>	205.7	<b>193.8</b>	232.8	184.3	214.1
Jung	7S522RIB	STX,B	AC,P5V	101	<b>205.5</b>	20.1	0	899	7	<b>209.4</b>	211.4	183.2	233.6	192.9	202.3
Wyffels	W2277RIB	VT3P,B	AC,P5V	100	<b>204.7</b>	18.5	0	903	4	204.7	202.0	181.6	223.7	196.2	<b>219.7</b>
Gold Country	98-38RSS	STX,B	AC,P5V	98	<b>204.6</b>	18.4	0	903	5	189.4	213.7	186.2	<b>243.7</b>	194.7	200.1
Producers	6108STXRIB	STX,B	AC,P5V	101	202.1	19.8	0	885	11	<b>208.1</b>	188.8	<b>188.1</b>	228.2	189.1	210.4
Channel	199-29STXRIB	STX,B	AC,P5V	99	201.8	17.6	0	895	8	<b>208.5</b>	196.4	182.0	230.6	195.3	198.2
Titan Pro	TP 39-00 SS	STX	AC,P5V	100	201.7	18.6	0	889	9	<b>206.5</b>	208.1	173.1	224.0	198.6	199.6
LG Seeds	LG5470STXRIB	STX,B	AC,P5V	98	200.6	19.4	0	881	13	204.4	<b>225.0</b>	166.5	222.5	184.4	201.0
Producers	5898STXRIB	STX,B	AC,P5V	98	199.7	19.3	0	877	18	199.4	203.3	177.9	228.3	182.8	206.7
Wensman	W 91011STX	STX	AC,P2	101	199.4	19.4	0	875	19	195.1	215.3	178.2	220.8	<b>202.8</b>	184.0
LG Seeds	LG5444VT3PRIB	VT3P,B	AC,P5V	96	199.1	17.0	0	886	10	183.1	202.4	180.5	<b>236.4</b>	195.1	196.8
Wyffels	X1807	VT3P	AC,P5V	97	198.2	16.3	0	885	12	185.4	208.7	179.1	227.0	192.1	196.8
Wensman	W 9288STXRIB	STX,B	AC,P2	98	198.2	19.2	0	871	22	201.4	215.8	182.1	227.2	175.3	187.6
Prairie Brand	1022SX	STX	CM,C1	100	197.8	20.4	0	863	28	193.7	196.6	173.2	214.6	195.7	213.2
LG Seeds	LG2501VT3PRIB	VT3P,B	AC,P5V	100	197.6	17.1	0	879	15	190.1	195.3	182.3	223.1	195.9	199.0
Channel	196-77STXRIB	STX,B	AC,P5V	96	197.4	17.0	0	878	17	<b>205.5</b>	187.6	179.7	216.6	189.0	206.1
Prairie Brand	1010VT3	VT3	CM,C2	101	197.4	17.6	0	875	20	204.7	203.8	173.1	231.8	179.1	192.1
Dahlman	R50-33VT3PRIB	VT3P,B	AC,P2	100	197.0	18.6	0	869	26	<b>207.6</b>	186.1	168.0	224.1	190.9	205.4
Titan Pro	TP 39-98 SS	STX	AC,P5V,Z	98	196.7	18.0	0	870	24	180.8	<b>218.6</b>	170.7	212.4	185.8	211.9
Wyffels	W1787RIB	VT3P,B	AC,P5V	96	196.4	17.5	0	872	21	192.0	203.2	182.0	228.5	189.0	183.6
NuTech/G2 Gen	3F-198AM	AM-R,B	MQ,C2	98	196.0	15.7	0	879	16	204.3	207.3	170.1	217.3	177.7	199.5
Dekalb	DKC50-77RIB GC	VT3P,B	AC,P2	100	196.0	17.5	0	870	25	200.5	199.2	183.2	216.8	184.3	191.8
Wensman	W 7097SVT3PRO	VT3P	AC,P2	97	194.9	17.7	0	864	27	193.2	190.8	170.1	223.0	180.6	211.4
Jung	7S417RIB	STX,B	AC,P5V	96	194.7	16.0	0	871	23	184.1	208.3	171.5	213.2	193.2	197.9
Pioneer	P0193AM GC	AM,B	CM,C2	101	194.4	18.3	0	859	31	189.3	202.2	171.6	220.4	188.3	194.4
Titan Pro	1M96-3P	VT3P,B	AC,P2,Z	96	193.8	16.9	0	863	29	190.1	208.6	167.2	218.6	174.3	203.7
Channel	195-58STXRIB	STX,B	AC,P5V	95	192.8	16.1	0	862	30	190.3	201.3	168.4	223.8	202.1	170.6
Dekalb	DKC52-04RIB CK	VT3P,B	AC,P2	102	199.0	17.9	0	881	14	195.4	206.8	<b>189.7</b>	<b>235.8</b>	172.8	193.5
<b>Test Average =</b>					<b>194.1</b>	<b>18.0</b>	<b>0</b>	<b>859</b>		<b>192.8</b>	<b>199.4</b>	<b>174.6</b>	<b>220.6</b>	<b>183.9</b>	<b>193.4</b>
LSD (0.10) =					8.8	1.0	ns			12.2	17.5	13.5	14.5	18.3	20.8

## FULL-SEASON TEST 102-105 Day CRM

Top 30 of 48 tested

Gold Country	102-88RSS	STX,B	AC,P5V	102	<b>211.0</b>	20.8	0	919	1	<b>221.9</b>	202.1	183.1	235.8	201.4	<b>221.7</b>
Titan Pro	TP 39-05 SS	STX	AC,P2,Z	105	<b>206.7</b>	21.1	0	899	3	209.7	203.6	179.9	232.9	203.9	<b>210.0</b>
Mustang	6604GENVT3P	VT3P	AC,P2	104	<b>206.2</b>	19.5	1	905	2	219.9	206.6	176.9	237.9	203.7	192.0
Wensman	W 9325STXRIB	STX,B	AC,P2	102	<b>206.0</b>	20.4	1	899	4	218.4	195.3	182.6	228.6	200.9	<b>210.3</b>
Jung	7S577RIB	STX,B	AC,P5V	104	<b>205.6</b>	20.5	0	897	5	197.8	<b>216.1</b>	179.3	<b>240.3</b>	199.7	200.3
Renze	2224-3000GT	3000GT	CM,C2	104	<b>205.1</b>	20.8	5	893	6	204.6	211.9	179.3	<b>240.6</b>	206.4	187.6
Pioneer	P0533AM1 GC	AM1,B	CM,C2	105	<b>204.4</b>	20.9	1	890	7	207.4	203.7	185.3	221.9	206.1	201.7
Titan Pro	TP 39-02 SS	STX	AC,P5V,Z	102	202.0	19.4	0	887	8	213.1	189.4	<b>186.2</b>	220.5	205.5	197.2
Dekalb	DKC53-56RIB GC	STX,B	AC,P5V	103	201.3	19.9	0	881	12	204.3	195.6	172.7	233.9	208.7	192.3
Wyffels	W2888	STX	AC,P5V	102	201.0	19.5	0	882	11	214.6	207.8	181.9	233.9	184.9	182.9
Wyffels	W3007RIB	VT3P,B	AC,P5V	103	200.9	19.2	0	883	10	208.9	200.1	175.2	234.5	204.7	181.7
Viking	C78-05R	VT3P,B	AC,P2	105	200.8	18.4	3	887	9	217.7	190.8	173.9	228.6	205.4	188.4
Titan Pro	2M04-2P	VT2P,B	AC,P2,Z	104	200.1	21.3	0	869	16	216.9	201.7	<b>186.5</b>	225.4	185.7	184.3
Renk	RK752SSTX	STX,B	AC,P5V	105	199.6	21.1	0	868	20	206.9	204.1	176.7	<b>241.3</b>	191.6	177.0
NuTech/G2 Gen	3D-802AMX	AMX-R,B	MQ,C2	102	199.2	19.9	1	872	15	200.5	193.5	176.1	227.4	193.1	204.8
Wensman	W 7320VT3PRIB	VT3P,B	AC,P2	101	199.1	19.2	0	875	14	216.4	197.7	177.9	226.7	193.3	182.3
Channel	203-44STXRIB	STX,B	AC,P5V	103	198.3	19.7	0	869	17	206.5	201.4	171.6	224.7	201.2	184.3
Wyffels	W4797RIB	VT3P,B	AC,P5V	106	198.0	19.4	0	869	18	219.7	191.3	173.6	233.5	201.0	169.0
NuTech/G2 Gen	5H-805	HX,RR2	MQ,P1V,R	105	197.7	20.2	0	864	22	204.3	208.0	175.8	220.0	201.5	176.5
NuTech/G2 Gen	5H-502	HX,RR2	MQ,C2	102	197.6	19.0	0	869	19	196.1	206.0	174.7	227.7	206.1	174.7
Trelay	6ST541RIB	STX,B	AC,P5V	104	197.6	19.8	0	865	21	201.0	200.1	173.2	235.9	196.0	179.5
Producers	6318STX	STX	AC,P5V	103	197.0	19.9	0	862	25	214.3	200.0	168.2	214.6	198.8	185.9
Renk	RK666SSTX	STX	AC,P2	102	196.6	19.5	0	863	23	<b>224.1</b>	184.2	163.1	230.9	187.6	189.7
LG Seeds	LG5522VT3PRIB	VT3P,B	AC,P5V	103	195.8	21.3	0	850	31	217.0	198.8	176.2	220.1	201.1	161.7
Renk	RK629VT3P	VT3P	AC,P2	102	195.6	18.6	0	863	24	213.4	199.3	169.2	227.7	178.6	185.5
Pfister	2225SS	STX	CM,C2	102	195.4	20.5	0	852	29	201.4	191.7	170.7	220.8	205.2	182.8
Producers	6394VT3Pro	VT3P	AC,P5V	103	194.4	19.1	3	855	27	212.2	196.9	175.9	232.1	196.4	152.8
Gold Country	101-56RSS	STX,B	AC,P5V	101	194.3	19.9	0	851	30	208.9	202.9	168.9	218.2	188.8	178.3
Wyffels	W3998	STX	AC,P5V	105	194.0	19.2	0	853	28	186.1	194.2	168.1	229.0	193.6	192.7
Kruger	KR-7303	VT3P,B	AC,P5V	103	193.1	17.7	0	856	26	201.6	187.8	175.8	232.0	186.7	174.7
Dekalb	DKC52-04RIB CK	VT3P,B	AC,P2	102	199.6	18.4	0	881	13	214.2	195.5	170.8	224.4	201.1	191.5
<b>Test Average =</b>					<b>195.4</b>	<b>20.0</b>	<b>1</b>	<b>855</b>		<b>204.4</b>	<b>195.8</b>	<b>172.8</b>	<b>225.6</b>	<b>193.2</b>	<b>180.5</b>
LSD (0.10) =					8.3	1.0	1			16.9	17.6	12.6	13.6	15.8	26.2



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Bayer CropScience



**Corn Stats:**

Yield Range: 165.0-216.7 bu. per acre  
 Yield Average: 193.1 bu. per acre  
 Top \$ Per Acre: \$908

**Corn Field Notes: Minnesota Southeast**

Mark Querna, FIRST Manager

**Cannon Falls**—Planting was delayed by 12" of snow on May 2 and persistent spring rain. I have never planted into more saturated soil conditions, yet this site still had uniform emergence and looked great in late June. Rains continued until early July. A killing frost on Oct. 20 was late enough for corn to reach blacklayer. Grain moisture was higher than other sites but grain quality was quite good.

**Dexter**—This location received consistent light rain throughout April, May and June. A foot of snow fell here on May 2 and low temperatures prevented field work until May 13. I was planting elsewhere and was unable to plant here before the rain returned. Despite moving the test plot location to a field that had better drainage than the original site, there was no opportunity to plant before mid-June. Therefore, ultimately no corn test was done here. Farmer Eric Lee could only plant 75% of his total corn acres due to wet conditions this year. The corn Lee did harvest yielded an average of 191 bu. per acre with grain moisture around 24%.

**Eyota**—The Eyota location suffered from the same wet conditions as most of southeastern Minnesota and northeastern Iowa. Spraying, tilling and seeding prevented planting acres turned out to be more work than growing a normal crop. Yields were quite good in spite of the delayed planting. FIRST farmer Paul Wendt summed up the feelings of every farmer I worked with this year by stating, "My family, my crew and I are ready to put this year behind us. We're looking forward to 2014."

**Kasson**—The soil here was dry but compacted. There is pattern tile every 50' on this site, but the corn looked visibly better directly over the tile lines into mid-July. Roots never had a chance to thrive, and as it dried out in July and August, the corn stagnated and was very slow to dry down in spite of not having a killing frost until Oct. 20. Yields were very good for this late planting date but grain quality took a hit as my combine shelled the wet corn.

**Madison Lake**—I planted three different early-season tests at this

site, as I determined that the full-season test would have little value to farmers and seedsmen alike.

Tests one and two were of high and fair data quality, respectively. Test three suffered from poor weed control due to persistent wet soil conditions. Its yield results were inconsistent and of little value statistically; the results were rejected. The positive note to take from this location is that an ultra-early hybrid doesn't need to be chosen if planting is delayed into June. Yields were still respectable for such a challenging growing season.

**New Richland**—This site was planted two weeks after the rest of the field. Leon Schoenrock, FIRST farmer member was happy to see the good yields, as it reaffirms that farmers want to and should plant corn as late as June 2. May 2 brought 12" of snow, delaying all field activity until May 13. June stayed cool and wet. July and August were very dry. The higher temperatures of August and no killing frost until Oct. 19 allowed full-season corn to blacklayer.

Site Information Minnesota Southeast						2013 Rainfall (inches)					
						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Cannon Falls	silty clay loam	minimum	soybean	200	5/31	5.41	4.19	1.98	1.70	-1.83	-2.94
Dexter					n/a	12.65	13.09	10.14	7.92	5.35	2.94
Eyota					n/a	11.74	6.61	2.78	2.49	-1.70	-2.26
Kasson	silt loam	minimum	soybean	178	6/3	8.41	5.34	2.79	2.96	-1.65	-1.85
Madison Lake	clay loam	conventional	soybean	125	6/8	4.00	4.73	2.87	1.09	-1.45	-3.09
New Richland*	clay loam	minimum	soybean	152	6/2	9.00	6.00	3.00	1.00	-1.42	-3.75

Rainfall obtained on-site (\* denoted) or estimated from [www.weatherplot.com](http://www.weatherplot.com). Rainfall Normals (1981-2010) from National Climatic Data Center.

# FIRST Minnesota Southeast Corn Results



## EARLY-SEASON TEST 95-100 Day CRM

Top 30 of 63 tested

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Cannon Falls	Kasson	Madison Lake 1	Madison Lake 2	Madison Lake 3*	New Richland
Channel	197-68STXRIB	STX,B	AC,P5V	97	<b>209.9</b>	25.4	0	890	1	222.6	<b>217.2</b>	208.9	203.7	176.9	197.0
LG Seeds	LG5499STXRIB	STX,B	AC,P5V	100	<b>203.8</b>	27.8	0	852	9	<b>224.0</b>	195.1	199.6	197.2	190.4	<b>203.3</b>
NuTech	5N-9802	3000GT		98	<b>203.0</b>	24.4	0	866	4	214.5	<b>200.3</b>	212.0	185.0	159.9	<b>203.1</b>
LG Seeds	LG5470STXRIB	STX,B	AC,P5V	98	<b>203.0</b>	26.5	0	855	7	<b>227.2</b>	<b>201.6</b>	205.5	182.1	163.6	<b>198.4</b>
Channel	199-29STXRIB	STX,B	AC,P5V	99	<b>202.7</b>	23.6	0	869	3	<b>225.6</b>	<b>198.4</b>	185.7	202.4	179.6	<b>201.4</b>
Wensman	W 9288STXRIB	STX,B	AC,P2	98	<b>202.1</b>	26.4	0	852	10	216.8	192.4	211.3	186.2	162.5	<b>203.6</b>
Mustang	4897GENSS	STX	AC,P2	97	<b>201.0</b>	21.5	0	872	2	221.1	191.7	<b>214.0</b>	177.9	168.3	<b>200.5</b>
Gold Country	98-38RSS	STX,B	AC,P5V	98	<b>200.2</b>	25.4	1	849	12	<b>224.7</b>	180.3	<b>217.9</b>	182.3	184.5	195.9
Producers	5898STXRIB	STX,B	AC,P5V	98	<b>199.9</b>	26.7	0	841	15	<b>225.7</b>	<b>201.9</b>	198.5	174.3	194.6	<b>199.0</b>
Jung	7S405RIB	STX,B	AC,P5V	95	<b>199.4</b>	23.3	0	856	6	219.5	<b>205.8</b>	<b>225.9</b>	159.6	163.5	186.2
Channel	196-77STXRIB	STX,B	AC,P5V	96	<b>199.3</b>	23.6	0	854	8	<b>225.4</b>	181.6	206.3	189.3	185.1	193.9
Titan Pro	TP 39-00 SS	STX	AC,P5V	100	<b>198.8</b>	24.2	0	849	13	<b>226.5</b>	192.9	178.6	200.5	161.0	195.3
AgriGold	A6257STXRIB	STX,B	AC,P5V	100	198.4	26.6	0	835	19	<b>226.1</b>	<b>198.2</b>	<b>213.7</b>	159.1	174.9	194.8
Viking	E52-95R	VT2P,B	AC,P2	95	197.7	22.7	0	852	11	220.1	196.5	209.3	175.3	141.7	187.3
Titan Pro	1M96-3P	VT3P,B	AC,P2,Z	96	196.5	19.6	0	862	5	215.1	<b>203.2</b>	198.2	171.5	170.6	194.3
Mustang	4845GENSS	STX	AC,P2	96	195.6	23.4	0	839	17	214.7	196.6	212.0	164.8	168.2	189.8
Wensman	W 70975VT3PRO	VT3P	AC,P2	97	195.1	23.6	0	836	18	221.2	181.8	187.0	194.9	168.6	190.5
Titan Pro	2M95-2P	VT2P,B	AC,P2,Z	95	195.0	22.6	0	840	16	<b>224.4</b>	192.0	200.9	176.2	162.0	181.7
Dyna-Gro	D38SS50	STX	P5	98	194.0	21.4	0	842	14	211.5	181.6	207.9	174.4	145.7	194.8
Renk	RK568VT3P	VT3P	AC,P2	95	193.0	22.6	0	832	20	218.9	173.9	197.5	183.9	181.2	190.7
Producers	5634VT3Pro	VT3P	AC,P5V	96	193.0	23.0	0	830	21	<b>224.4</b>	183.8	205.2	160.6	163.3	191.0
Jung	7S457RIB	STX,B	AC,P5V	98	193.0	24.2	0	824	25	220.3	188.6	190.6	182.4	172.3	183.3
NuTech/G2 Gen	3F-198AM	AM-R,B	MQ,C2	98	190.2	20.8	0	828	22	214.1	177.9	187.7	192.3	146.4	179.0
LG Seeds	LG2501VT3PRIB	VT3P,B	AC,P5V	100	189.5	22.0	1	820	27	214.9	175.5	198.4	178.6	144.5	180.2
Viking	D37-98RL	STX,B	AC,P2	98	189.5	22.7	0	816	28	218.9	171.1	180.1	188.4	158.5	188.9
Wensman	W 7290VT3PRIB	VT3P,B	AC,P2	99	189.5	23.0	1	815	29	217.8	168.0	191.0	183.0	161.6	187.9
LG Seeds	LG5444VT3PRIB	VT3P,B	AC,P5V	96	188.4	20.4	0	822	26	216.4	160.9	201.7	166.3	149.9	196.9
Viking	C44-95R	VT3P,B	AC,P2	95	188.1	19.2	0	827	23	197.3	177.1	191.8	184.0	155.5	190.5
Gold Country	99-33RSS	STX,B	AC,P5V	99	188.1	22.5	0	811	31	210.6	179.1	202.2	166.1	152.0	182.5
Channel	195-58STXRIB	STX,B	AC,P5V	95	186.4	20.7	0	812	30	214.0	178.3	198.7	158.1	174.4	183.0
Dekalb	DKC50-77RIB CK	VT3P,B	AC,P2	100	191.1	22.3	0	825	24	222.7	186.4	184.7	164.8	176.3	196.7
<b>Test Average =</b>					<b>188.6</b>	<b>23.3</b>	<b>0</b>	<b>809</b>		<b>211.8</b>	<b>180.1</b>	<b>194.2</b>	<b>169.7</b>	<b>162.9</b>	<b>187.1</b>
LSD (0.10) =					9.9	1.5	ns			11.1	17.6	19.4	34.6	ns	11.2

## FULL-SEASON TEST 101-104 Day CRM

Top 30 of 48 tested

Titan Pro	2M04-2P	VT2P,B	AC,P2,Z	104	<b>216.7</b>	31.5	0	886	3	<b>239.8</b>	<b>207.2</b>				<b>203.0</b>
AgriGold	A6319VT3PRIB	VT3P,B	AC,P5V	103	<b>216.5</b>	27.3	0	908	1	<b>238.4</b>	<b>207.5</b>				<b>203.5</b>
Gold Country	102-88RSS	STX,B	AC,P5V	102	<b>215.9</b>	29.4	0	894	2	<b>239.1</b>	<b>216.5</b>				192.1
Dekalb	DKC53-56RIB GC	STX,B	AC,P5V	103	<b>212.7</b>	28.5	0	885	4	<b>235.6</b>	<b>206.1</b>				196.4
Renk	RK666SSTX	STX	AC,P2	102	<b>212.3</b>	30.4	0	874	5	<b>235.5</b>	<b>218.3</b>				183.2
Dahlman	R51-313SSRIB	STX,B	AC,P2	102	<b>209.4</b>	29.8	0	865	8	222.4	<b>212.9</b>				192.9
Jung	7S522RIB	STX,B	AC,P5V	101	<b>209.3</b>	29.5	0	866	7	<b>234.3</b>	199.0				194.6
Trelay	55T932RIB	STX,B	AC,P5V	102	<b>209.2</b>	30.0	0	863	9	<b>237.2</b>	197.5				192.9
Producers	6108STXRIB	STX,B	AC,P5V	101	<b>207.8</b>	30.1	0	857	11	223.6	<b>211.6</b>				188.3
Dahlman	R53-319SSRIB	STX,B	AC,P2	105	203.9	31.3	0	834	19	218.3	200.7				192.6
Viking	C78-05R	VT3P,B	AC,P2	105	203.7	26.6	0	858	10	218.5	193.1				199.4
Viking	D41-03RL	STX,B	AC,P2	103	203.1	30.2	0	837	17	213.8	199.7				195.7
Trelay	6ST541RIB	STX,B	AC,P5V	104	202.6	28.7	0	842	14	222.4	195.6				189.8
Producers	6394VT3Pro	VT3P	AC,P5V	103	202.0	27.7	2	845	12	218.5	187.0				200.6
Titan Pro	TP 39-02 SS	STX	AC,P5V,Z	102	201.0	30.7	0	826	22	219.6	188.9				194.5
Wensman	W 7320VT3PRIB	VT3P,B	AC,P2	101	200.6	28.2	0	837	18	216.8	191.0				194.1
Wensman	W 91011STX	STX	AC,P2	101	200.1	28.9	0	831	20	211.6	194.1				194.5
AgriGold	A6267STX	STX	AC,P5V	102	198.8	30.8	0	816	28	218.0	192.6				185.7
NuTech/G2 Gen	5Z-0105	OI	MQ,P1V,R	101	198.7	25.6	0	841	15	222.9	185.1				188.0
Titan Pro	2M01-3P	VT3P,B	AC,P1V	101	198.4	25.7	0	840	16	225.7	181.4				188.2
Wensman	W 9325STXRIB	STX,B	AC,P2	102	198.3	29.7	0	819	26	219.9	184.7				190.4
Mustang	6604GENVT3P	VT3P	AC,P2	104	197.6	27.1	0	829	21	213.3	185.3				194.1
Gold Country	101-56RSS	STX,B	AC,P5V	101	197.2	28.4	0	821	23	213.0	184.4				194.1
Anderson	537R	RR2	M	101	197.0	23.7	0	844	13	213.0	191.4				186.7
Dairyland	DS9604SSX	STX	CM,C2	103	197.0	28.6	0	820	24	215.9	182.4				192.6
Renk	RK629VT3P	VT3P	AC,P2	102	195.8	27.4	0	820	25	214.0	193.1				180.2
Channel	203-44STXRIB	STX,B	AC,P5V	103	194.5	27.7	1	813	31	202.4	187.3				193.7
Viking	D81-01RL	STX,B	AC,P2	101	194.1	27.3	0	814	29	215.7	180.2				186.3
Jung	7S565RIB	STX,B	AC,P5V	103	194.0	26.1	0	819	27	200.3	194.9				186.9
Anderson	588VT3P	VT3P	CE,C2	101	192.3	25.7	0	814	30	207.1	189.7				180.0
Dekalb	DKC50-77RIB CK	VT3P,B	AC,P2	100	<b>206.1</b>	25.3	0	874	6	227.6	192.2				198.6
<b>Test Average =</b>					<b>197.6</b>	<b>28.1</b>	<b>0</b>	<b>824</b>		<b>215.2</b>	<b>188.6</b>				<b>188.9</b>
LSD (0.10) =					7.2	1.3	ns			12.6	16.3				13.9

# = early-season test results rejected, not included in summary

# FIRST North Dakota East Central Soybean Results

## Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Casselton	loam	conventional	30	5/17	139.5	n/a	2.23
Clifford	loamy sand	minimum	30	5/24	135.7	n/a	1.51
Dazey	sandy loam	conventional	30	5/27	139.9	n/a	2.03
Thompson	clay loam	conventional	30	5/27	139.1	n/a	1.31

Rainfall obtained on-site (\*denoted) or estimated from [www.weatherplot.com](http://www.weatherplot.com)



Kevin Coey, FIRST Manager

### Soybean Stats:

Yield Range: 34.0-50.0 bu. per acre  
 Yield Average: 42.9 bu. per acre  
 Top \$ Per Acre: \$638

## Soybean Field Notes: North Dakota East Central

**Casselton**—Casselton was planted on a garden spot this year and was above average all through the growing season. The heavy soil saw the crop through the late-summer dry period and the plants were tall and bushy, filling the pods at the top. Longer-season varieties had a big advantage; many of them were topping 60 bu. per acre in some replications. The average yield on this test was 50.1 bu. per acre.

**Clifford**—The test at Clifford this year moderately sloped down from west to east and planted north to south. The first replication on the west side aver-

aged 30 bu. per acre, the second 35 bu. per acre and the third an astounding 62 bu. per acre. While it was great to see such a beautiful crop, the extreme variance in yield level did not fall evenly between replications and so proved inconclusive. Therefore, the test results at this site were rejected.

**Dazey**—Our expectations for Dazey were high midseason, but like so many areas this year, dry soil during flower and pod fill limited plant height and yield. The site was uniform and free of any weeds, disease or pests. Average yield on this test was only

31.5 bu. per acre. FIRST farmer member Eric Broten had some fields that did catch more rain and those produced far better results than this test.

**Thompson**—The Thompson test was planted on a flat area with heavy soil and produced a tall, healthy crop. A few of the varieties were beginning to lodge significantly, but in other areas of the site they were shorter, drier and lower yielding. This suggests that plant health may have been an issue here. Overall, however, this was a uniform site and a very good test. This test averaged 47.2 bu. per acre.

## 0.0-0.7 Maturity Group

Top 20 of 60 tested

Company/Brand	Product/Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Casselton	Clifford#	Dazey	Thompson
Hefty	H05R3	RR2Y	0.5	S	I	50.0	15.0	0	638	60.4	49.0	40.0	49.5
Dyna-Gro	S08RY23	RR2Y	0.8	S	ACi	49.1	15.2	1	626	60.7	39.4	35.0	51.6
Wensman	W 3076R2	RR2Y	0.7	S	AC,PV	48.2	14.9	0	615	57.7	42.3	37.5	49.3
Wensman	W 3062NR2	RR2Y	0.6	MR	AC,PV	47.2	15.0	1	602	58.1	52.6	33.9	49.7
Renk	RS033R2	RR2Y	0.3	S	None	46.8	15.0	1	597	54.5	52.0	33.2	52.6
Rea	65G22	RR2Y	0.5	S	AC	46.5	14.8	5	593	56.4	50.1	35.8	47.3
Prairie Brand	PB-0863R2	RR2Y	0.7	MR	CMBV	46.3	15.1	2	590	53.5	48.4	34.7	50.6
Dyna-Gro	S06RY24	RR2Y	0.6	R	CMB	46.0	15.1	0	587	49.6	46.3	37.9	50.6
Kruger	K2-0504	RR2Y	0.5	S	ACi	45.9	14.8	0	585	54.5	40.0	32.5	50.8
Kruger	K2-0601	RR2Y	0.6	S	ACi	45.9	14.9	0	585	55.0	42.0	33.3	49.4
Mycogen	5B066R2	RR2Y	0.6	S	CMB	45.8	14.9	1	584	56.1	48.7	35.7	45.5
Pioneer	90M80 \$	RR	0.8	R	None	45.5	15.1	1	580	58.0	48.1	30.3	48.3
Prairie Brand	PB-0441R2	RR2Y	0.4	S	CMBV	45.5	15.2	2	580	55.1	50.0	32.5	48.9
Renk	RS053R2	RR2Y	0.5	S	None	45.3	14.9	0	578	57.6	40.9	30.2	48.1
Wensman	W 3058R2	RR2Y	0.5	S	AC,PV	44.9	15.0	2	572	52.6	49.5	34.4	47.6
Legend	LS-06R21 \$	RR2Y	0.6	S	AC	44.8	14.7	4	571	52.9	34.5	33.0	48.5
NuTech/G2 Gen	6043^	RR	0.4	S	SCE	44.6	14.7	0	569	51.5	33.8	33.4	48.9
Mustang	07724	RR2Y	0.7	R	AC	44.5	15.1	0	567	57.9	51.0	28.4	47.2
Proseed	PX06	RR2Y	0.6	MR	AC	44.3	15.0	0	565	55.4	45.2	27.5	50.1
Rea	66G14	RR2Y	0.6	R	AC	44.3	15.1	0	565	55.8	45.5	29.2	47.9
<b>Site Averages =</b>						<b>42.9</b>	<b>15.0</b>	<b>1</b>	<b>548</b>	<b>50.1</b>	<b>42.6</b>	<b>31.5</b>	<b>47.2</b>
LSD (0.10) =						5.0	0.2	2		9.1	11.6	6.3	5.3

# = rejected results, not included in summary

# FIRST North Dakota Southeast Soybean Results

## Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Colfax	loamy sand	conventional	30	5/13	n/a	n/a	1.56
Great Bend	loam	conventional	30	5/17	134.1	n/a	1.38
Litchville	sandy loam	minimum	30	6/3	135.9	n/a	1.59
Oakes	sandy loam	no-till	30	5/14	136.0	n/a	0.73

Rainfall obtained on-site (\*denoted) or estimated from [www.weatherplot.com](http://www.weatherplot.com)



Kevin Coey, FIRST Manager

### Soybean Stats:

Yield Range: 26.4-37.0 bu. per acre  
 Yield Average: 32.5 bu. per acre  
 Top \$ Per Acre: \$472

## Soybean Field Notes: North Dakota Southeast

**Colfax**—Large hail damaged this location at emergence and was followed by a second, though smaller, hailstorm a few weeks later. The site was not replanted in hopes that the remaining stand would be adequate for yield. Sadly, disparate late-season weed pressure by harvest rendered the site useless for data, so the test plot was abandoned and no results were recorded.

**Great Bend**—This site was on level black clay soil typical of the valley and benefited from very favorable growing conditions throughout most of the flowering period. The plants were tall and

healthy. It looked like they would have high yields, but soil moisture in August was very limited and pods at the top contributed little at harvest. The average yield on this test was 44 bu. per acre.

**Litchville**—FIRST farmer member Mark Formo reported significant hail damage on this test plot and the surrounding field early in July. He has estimated the damage at about 5 to 7 bu. per acre by comparing his yield to that of like fields without hail damage. In either case, the dry soil conditions that followed were a yield-limiting factor. It is unusual for a test with a low average yield to produce

high-quality data. This location could make for another great test in the future. The average yield here was 21.1 bu. per acre.

**Oakes**—The test at Oakes this year was planted on a dome, draining to all four corners, and was uniform in soil type. Drift from the herbicide Milestone injured the stands early in the summer but the damage was minimal. Plant heights were reduced and all varieties appeared to be more bushy than normal. Dry soil late in the summer coupled with plant disease was the top yield-limiting factor. Average yield at the Oakes test plot was 32.5 bu. per acre.

## 0.5-1.2 Maturity Group

Top 20 of 60 tested

Company/Brand	Product/Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Colfax	Great Bend	Litchville	Oakes
Dairyland	DSR-1120/R2Y §	RR2Y	1.1	S	CMB	37.0	15.9	0	472	Test abandoned due to hail damage	45.4	28.0	37.5
Kruger	K2-1102 §	RR2Y	1.1	S	ACi	36.4	16.4	0	464		44.1	28.3	36.8
Asgrow	AG0832 §	RR2Y	0.8	S	ACi	36.3	15.8	0	463		47.6	27.1	34.3
Dyna-Gro	S09RY64 §	RR2Y	0.9	R	CMB	36.1	15.7	0	460		45.8	26.4	36.1
Dyna-Gro	S12RY44 §	RR2Y	1.2	R	CMB	35.4	15.8	0	451		44.3	24.7	37.1
Prairie Brand	PB-0777R2 §	RR2Y	0.7	R	CMBV	35.1	15.8	0	448		50.4	23.9	30.9
Kruger	K2-0901 §	RR2Y	0.9	S	ACi	34.9	16.0	0	445		45.7	24.4	34.5
Hefty	H09R4 §	RR2Y	0.9	MR	I	34.8	16.0	0	444		47.2	26.8	30.3
Kruger	K2-0601 §	RR2Y	0.6	S	ACi	34.6	15.5	0	441		43.9	26.8	33.0
Dairyland	DSR-0904/R2Y §	RR2Y	0.9	MR	CMB	34.5	16.1	0	440		43.5	25.8	34.1
Legend	LS-12R24N §	RR2Y	1.2	R	AC	34.4	15.7	0	439		45.2	24.5	33.5
Wensman	W 3062NR2 §	RR2Y	0.6	MR	AC,PV	34.0	15.7	0	434		47.1	22.3	32.7
Proseed	PX11 §	RR2Y	1.1	S	AC	34.0	15.8	0	434		47.2	20.4	34.3
Wensman	W 3076R2 §	RR2Y	0.7	S	AC,PV	34.0	16.0	0	434		45.2	24.7	32.1
Prairie Brand	PB-0609R2 §	RR2Y	0.6	R	CMBV	33.9	15.7	0	432		53.3	17.5	31.0
Hefty	H11R3 §	RR2Y	1.1	S	I	33.8	16.0	0	431		42.6	19.7	39.2
Kruger	K2-0801 §	RR2Y	0.8	S	ACi	33.7	15.9	0	430		43.7	25.5	31.9
Legend	LS-08R22N §	RR2Y	0.8	R	AC	33.7	16.0	0	430		49.1	19.2	32.7
Renk	RS084R2 (2)	RR2Y	0.8	S	None	33.6	15.8	0	428		44.6	23.6	32.6
Dairyland	DSR-0606/R2Y §	RR2Y	0.6	S	CMB	33.5	15.6	0	427		45.8	20.5	34.1
<b>Site Averages =</b>						<b>32.5</b>	<b>15.8</b>	<b>1</b>	<b>415</b>		<b>44.0</b>	<b>21.1</b>	<b>32.5</b>
LSD (0.10) =						3.8	0.4	ns			5.4	4.7	4.7

# FIRST South Dakota Northeast Soybean Results

## Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Bath*	silt loam	no-till	30	6/4	100.0	low	0.49
Clear Lake*	silty clay loam	conventional	30	6/3	102.6	low	0.60
Watertown	silty clay loam	conventional	30	6/3	98.1	low	0.59
Webster	silty clay	no-till	30	6/4	96.7	low	1.35

Rainfall obtained on-site (\*denoted) or estimated from [www.weatherplot.com](http://www.weatherplot.com)



Mark Tollefson, FIRST Manager

### Soybean Stats:

Yield Range: 39.6-53.5 bu. per acre  
Yield Average: 48.5 bu. per acre  
Top \$ Per Acre: \$696

## Soybean Field Notes: South Dakota Northeast

**Bath**—More than 6" of rain fell in May, contributing to a planting date of June 4. Both June and July were drier than typical, with rainfall being an inch below average each month. Despite the late planting, all soybeans were mature at harvest and showed no green stems or soybeans in the grain tank. This was a very clean field with no weed issues.

**Clear Lake**—Some heavy storms moved through after planting and Greg Lanners was concerned emergence would be an issue. We rebounded from the storm and in July the plot looked great. Rainfall was at a premium in July and through the first half

of August, resulting in slowed soybean development. We had some late-August rainfall and some late-season pod set took place. I observed many plants that had one or two pods on top that remained wet and tough at harvest. We had nice clean soybeans throughout the season and Lanners has been surprised with his soybean yields.

**Watertown**—We lost some yield in this test due to a total rainfall in August being 2" below the 30-year average. The test had average soybean heights of less than 32". Some random weeds and grass were noted in the test plots but were not a big problem.

We also noticed that some varieties had green stems at harvest.

**Webster**—We planted June 4, which helped the soybeans emerge quickly, and we had a nice-looking plot through the first part of July. The soybeans never developed a canopy when July and August rainfall ran close to 2" behind the 30-year average. The second application of Roundup came during a time when plant growth was slow from dry, cool weather so the Roundup was not as effective as we had hoped. Sporadic weed pressure from redroot pigweed and waterhemp was seen in the plot and was extensive in about 10 rows, causing us to lose a replication.

### 1.0-1.7 Maturity Group

Top 20 of 63 tested

Company/Brand	Product/Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Bath	Clear Lake	Watertown	Webster
Hefty	H12R4	RR2Y	1.2	MR	I	53.5	12.6	1	696	51.6	54.6	53.0	54.6
NK Brand	S17-B3 §	RR2Y	1.7	R	CMBV	53.4	13.2	6	694	50.9	62.0	54.9	45.7
Proseed	PX12	RR2Y	1.2	MR	AC	53.1	12.6	2	690	48.6	56.4	55.5	51.8
Dairyland	DSR-1120/R2Y	RR2Y	1.1	S	CMB	53.0	13.1	1	689	53.4	51.0	63.1	44.3
Scherr Seed	EX1.5RR2	RR2Y	1.5	n/a	G	52.8	13.0	2	686	51.4	58.2	54.9	46.6
Federal	F084NRR2Y	RR2Y	0.8	R	ACi	52.7	12.6	2	685	53.8	54.4	54.3	48.3
Kruger	K2-1602	RR2Y	1.6	R	ACi	52.4	13.0	3	681	56.0	54.7	54.7	44.1
Dyna-Gro	S12RY44	RR2Y	1.2	R	CMB	52.3	12.5	2	680	49.0	54.7	52.6	53.0
Seeds 2000	2122RR2YN §	RR2Y	1.2	R	CMB	52.1	12.6	2	677	50.1	58.1	60.0	40.0
Stine	10RD03 §	RR2Y	1.0	MR	None	52.0	12.2	1	676	49.8	55.8	58.0	44.5
Channel	1700R2 §	RR2Y	1.7	R	ACi	52.0	12.8	2	676	49.1	55.9	57.2	45.7
Dairyland	DSR-1515/R2Y	RR2Y	1.5	MR	CMB,O	51.6	12.6	4	671	49.4	54.0	60.1	42.9
Asgrow	AG1431 §	RR2Y	1.4	R	ACi	51.5	12.6	2	670	51.7	55.6	49.9	48.9
Hefty	H16R4	RR2Y	1.6	MR	I	51.4	12.8	1	668	50.6	59.4	50.8	44.8
NK Brand	S14-J7 §	RR2Y	1.4	S	CMBV	51.2	12.5	2	666	53.7	55.7	56.5	39.0
Proseed	P2 21-40	RR2Y	1.4	MR	AC	50.9	13.0	2	662	46.3	55.5	52.9	48.9
Federal	F143RR2Y	RR2Y	1.4	S	ACi	50.6	13.0	4	658	49.0	60.5	53.6	39.1
Wensman	W 3178R2	RR2Y	1.7	S	AC,PV	50.6	14.2	2	657	47.3	55.8	57.2	41.9
Hefty	H10R3	RR2Y	1.0	S	I	50.5	12.5	2	657	48.2	51.9	54.1	47.7
Hefty	H17R4	RR2Y	1.7	S	I	50.3	14.3	2	653	47.9	58.6	55.6	39.1
<b>Site Averages =</b>						<b>48.5</b>	<b>12.8</b>	<b>2</b>	<b>630</b>	<b>47.3</b>	<b>54.4</b>	<b>51.6</b>	<b>40.5</b>
LSD (0.10) =						4.7	0.7	2		6.0	5.7	7.2	7.0

# FIRST South Dakota East Central Soybean Results

## Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Cavour	sandy loam	minimum	30	6/4	71.5	low	2.13
Colton	clay loam	conventional	30	5/31	106.6	low	2.51
Flandreau	clay loam	conventional	30	6/3	108.6	low	2.83
Howard	loam	conventional	30	6/2	105.6	low	2.06

Rainfall obtained on-site (\*denoted) or estimated from [www.weatherplot.com](http://www.weatherplot.com)



Mark Tollefson, FIRST Manager

### Soybean Stats:

Yield Range: 53.0-65.8 bu. per acre  
 Yield Average: 59.7 bu. per acre  
 Top \$ Per Acre: \$855

## Soybean Field Notes: South Dakota East Central

**Cavour**—A heavy rain and hail-storm shortly after emergence cut the population in this test. The test plot was planted on June 4, but many area fields were being replanted on July 2, when the fields finally dried out from the storm. We had some weeds break through in spots of the test plot, as low populations kept the ground exposed. This primarily affected one replication, which was removed from the test. There were some plots that had green stems and a few that even held yellow leaves at harvest.

**Colton**—This test received some late-season rains and we saw an additional eight to 12 pods per plant

compared to other sites observed. We harvested in good conditions. Some of the longer-season varieties had a greenish tint to the stems at harvest. While some of the stems were tough, the soybeans and pods were dry and harvested very well. We were pleased with excellent yields from a nice-looking soybean test at this location.

**Flandreau**—The Flandreau test site had consistent soybean heights of over 3' tall and is easily the tallest soybean field I've seen this year. All soybean varieties had fully matured by harvest, the conditions of which were exceptional. Grain moisture was around 10%, but split soybeans didn't ap-

pear to be a problem in the grain samples. Excellent weed control helped make this a very good soybean plot.

**Howard**—Some weekend rainfall just prior to harvest pumped up grain moisture from 9% to 14%. All of the soybean plants seemed to have matured completely, as no green stems were seen at harvest. Our host, John Feller, made one application of Roundup this year, resulting in no weeds on the test. It was believed that dry summer weather reduced yield potential in this area; farmers have been pleasantly surprised to harvest yields around 50 bu. per acre.

### 1.6-2.3 Maturity Group

Top 20 of 63 tested

Company/ Brand	Product/ Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Cavour*	Colton	Flandreau	Howard
NK Brand	S20-T6 §	RR2Y	2.0	R	CMBV	<b>65.8</b>	11.9	3	855	<b>67.7</b>	73.3	<b>63.1</b>	58.9
Stine	19RA02 §	RR2Y	1.9	R	CMB	<b>64.9</b>	11.7	3	844	<b>69.7</b>	72.8	<b>61.8</b>	55.1
Wensman	W 3214NR2	RR2Y	2.1	R	AC,PV	64.5	11.7	3	839	63.3	77.3	55.1	62.3
NorthStar	NS 1916NR2	RR2Y	1.9	R	ACi	64.5	11.9	3	839	63.1	<b>78.2</b>	57.8	58.9
Titan Pro	22M12	RR2Y	2.2	R	CMBV	64.4	12.3	3	837	<b>68.9</b>	71.3	56.0	61.5
Great Lakes	GL2069R2	RR2Y	2.0	R	AC,PV	64.2	11.6	3	835	53.8	77.0	59.5	<b>66.6</b>
Wensman	W 3222NR2	RR2Y	2.2	R	AC,PV	63.7	11.8	3	828	59.3	76.1	55.1	<b>64.3</b>
Titan Pro	TP-18R73	RR2Y	1.8	R	CMBV	63.5	11.8	2	826	62.5	76.6	56.3	58.5
Hefty	H17R4	RR2Y	1.7	S	I	63.5	11.7	3	826	57.7	<b>82.2</b>	60.4	53.7
Rea	82G14	RR2Y	2.2	R	None	63.4	12.2	5	824	62.6	72.7	57.1	61.0
Great Lakes	GL2289R2	RR2Y	2.2	R	AC,PV	63.2	11.8	3	822	63.9	71.6	59.6	57.8
Kruger	K2-2301	RR2Y	2.3	S	ACi	62.5	13.1	8	812	63.0	66.9	59.8	60.1
Kruger	K2-2201	RR2Y	2.2	R	ACi	62.2	11.7	2	809	63.0	74.9	53.7	57.3
Federal	F181NRR2Y	RR2Y	1.8	R	ACi	62.2	11.9	3	809	53.4	74.2	57.5	<b>63.5</b>
Titan Pro	TP-21R63	RR2Y	2.1	MR	CMBV	62.2	12.2	3	809	62.0	71.1	59.5	56.2
Federal	F224NRR2Y	RR2Y	2.2	R	ACi	62.0	12.0	3	806	61.3	72.5	56.1	58.1
NorthStar	NS 1726NR2	RR2Y	1.7	R	ACi	61.9	11.6	3	805	<b>66.8</b>	69.1	56.5	55.3
Titan Pro	20M1	RR2Y	2.0	R	CMBV	61.6	11.6	3	801	63.7	70.8	53.6	58.1
NK Brand	S22-F8 §	RR2Y	2.2	S	CMBV	61.4	12.2	6	798	60.2	69.6	57.9	58.0
Kruger	K2-1901	RR2Y	1.9	R	ACi	61.3	11.7	2	797	<b>64.8</b>	69.4	53.7	57.1
<b>Site Averages =</b>			<b>59.7</b>			<b>12.0</b>		<b>3</b>	<b>776</b>	<b>56.0</b>	<b>70.2</b>	<b>56.0</b>	<b>56.5</b>
LSD (0.10) =			5.2			0.8		2		8.7	7.5	4.6	6.5
‡ = 2 replications													



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# FIRST South Dakota Southeast Soybean Results

## Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Beresford	silty clay loam	conventional	30	6/2	109.6	low	5.75
Chancellor	silty clay loam	conventional	30	6/3	112.8	low	3.75
Ethan	loam	no-till	30	5/25	105.8	low	2.83
Salem	loam	minimum	30	6/5	101.3	low	3.19

Rainfall obtained on-site (\*denoted) or estimated from [www.weatherplot.com](http://www.weatherplot.com)



Mark Tollefson, FIRST Manager

### Soybean Stats:

Yield Range: 45.1-60.4 bu. per acre

Yield Average: 53.0 bu. per acre

Top \$ Per Acre: \$785

## Soybean Field Notes: South Dakota Southeast

**Beresford**—This plot looked to be in really good shape during stand counts, with even stands and full rows in every plot. There were no major rain events to drown out crops in the area. Ken Frick, the FIRST farmer member for this site, is hopeful for good yields this year in the rest of his fields. At harvest we had dry soybeans and green stems on some varieties. The plot site had a slight slope and we noticed better yields on the lower ground of the test area.

**Chancellor**—This year, timely rains have had farmers optimistic about yields, which is very different from last year when drought

had hit this area hard. We had good harvest conditions and all varieties had dry soybeans. This site saw only a few green soybeans come through the combine and only a few splits in grain samples. We did have some areas in the test where waterhemp was not killed by Roundup. Poor weed control caused variable yields; thus, results were rejected.

**Ethan**—Recent rains here in Ethan brought grain moistures up so that they were ideal for harvest. This was a no-till location planted on wheat stubble. There were no weeds to speak of in the test and the harvesting went well. This site experienced a stretch of

dry weather in August that hurt soybean yield. All soybeans had fully matured, so there were no green stems to contend with.

**Salem**—While harvesting, we noticed that some of the full-season varieties had not fully matured and were green. We had a uniform field in June with good weed control throughout the season. August stayed dry and that caused some of the plots to lose yield from the drought stress. FIRST farmer member Kurt Stiefvater sprayed for aphids and that helped save some yield. We planted on June 5 into wetter-than-ideal conditions and were happy to see good stands in June.

### 2.1-2.8 Maturity Group

Top 20 of 72 tested

Company/Brand	Product/Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Beresford	Chancellor#	Ethan	Salem
Renk	RS224NR2	RR2Y	2.2	R	None	60.4	10.5	2	785	73.8	63.1	51.4	55.9
Titan Pro	24M21	RR2Y	2.4	R	CMBV	60.1	11.1	3	781	68.8	74.3	52.1	59.4
Wensman	W 3222NR2	RR2Y	2.2	R	AC,PV	59.5	10.4	2	774	69.5	74.8	52.1	56.8
Kruger	K2-2201	RR2Y	2.2	R	ACi	58.9	10.7	2	766	60.4	57.8	53.0	63.2
Asgrow	AG2431 §	RR2Y	2.4	S	AC	58.4	10.8	2	759	69.5	74.0	48.7	57.0
Renk	RS213NR2	RR2Y	2.1	R	CMB,O	58.4	10.6	3	759	62.8	74.5	47.4	65.1
Prairie Brand	PB-2419RR2	RR2Y	2.3	S	CMBV	57.6	10.9	5	749	67.8	57.1	47.6	57.4
Stine	22RD00 §	RR2Y	2.2	MR	CMB	57.1	10.3	2	742	63.6	74.9	52.2	55.4
Kruger	K2-2301	RR2Y	2.3	S	ACi	57.0	10.7	4	741	66.9	75.2	49.3	54.7
Kruger	K2-2402	RR2Y	2.4	R	ACi	56.9	10.5	3	740	69.2	66.1	49.2	52.4
Channel	1700R2	RR2Y	1.7	R	ACi	56.8	10.4	3	738	62.8	66.7	54.5	53.0
Kruger	K2-2303	RR2Y	2.3	MR	ACi	56.4	11.4	3	733	57.2	65.1	51.0	61.0
Stine	26RD02 §	RR2Y	2.6	R	CMB	56.3	11.4	3	732	70.8	77.2	45.7	52.3
Dairyland	DSR-2612/R2Y	RR2Y	2.6	R	CMB,O	56.1	11.8	3	729	59.6	70.7	48.9	59.8
Prairie Brand	PB-2668R2	RR2Y	2.6	R	CMBV	55.9	10.9	3	727	65.0	62.5	49.1	53.5
Prairie Brand	PB-2351R2	RR2Y	2.3	R	CMBV	55.8	10.6	5	725	56.4	49.1	52.6	58.4
Wensman	W 3256NR2	RR2Y	2.5	MR	AC,PV	55.7	10.7	9	724	62.7	73.5	44.2	60.3
NK Brand	S24-K2 §	RR2Y	2.4	S	CMBV	55.4	10.5	2	720	65.5	60.4	51.0	49.6
Titan Pro	22M12	RR2Y	2.2	R	CMBV	55.2	10.6	4	718	57.2	67.5	48.8	59.6
Dyna-Gro	S25RY44	RR2Y	2.5	R	ACi	55.1	10.7	7	716	58.0	62.4	45.6	61.6
Site Averages =			53.0	11.0	3	689	58.6	65.7	47.2	53.2			
LSD (0.10) =			5.6	1.4	2		9.0	13.2	5.2	8.3			

# = rejected results, not included in summary

# FIRST Minnesota West Central Soybean Results

## Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Battle Lake	sandy loam	minimum	30	5/13	141.6	n/a	1.25
Evansville	loam	conventional	30	5/28	140.9	n/a	1.29
Rothsay	sandy loam	conventional	30	6/8	137.9	n/a	1.28
Wheaton	clay loam	conventional	30	5/29	123.8	n/a	2.75

Rainfall obtained on-site (\*denoted) or estimated from [www.weatherplot.com](http://www.weatherplot.com)



Kevin Coey, FIRST Manager

### Soybean Stats:

Yield Range: 35.7-50.8 bu. per acre  
Yield Average: 42.5 bu. per acre  
Top \$ Per Acre: \$648

## Soybean Field Notes: Minnesota West Central

**Battle Lake**—This plot showed promise early in the season. Stands were good and weed pressure was low, with no disease being observed. By late August, though, drought had stressed the entire field due to a lack of significant rain and a light soil texture. As you can see in the results table, a few of the varieties did much better than others and these were also visually obvious in the field. Data from this Battle Lake test site was rejected due to unacceptable variability across replications.

**Evansville**—This test was situated on FIRST farmer member Reece Lund's best field. Soil moisture at planting was higher than

anyone would want but we did have good stands. The Evansville test did not have any significant pests and that allowed ideal plant development. The differences between plant types for height and branching were so pronounced that you could easily tell the varieties apart. This site received adequate rain, which provided us with an exceptional test.

**Rothsay**—Rothsay was the last FIRST test planted in the area and was set back during pod fill by dry soil conditions. Even so, it was evident at harvest that there was extreme variability between areas that had withstood periods of prolonged soil saturation

earlier in the growing season and those that had not. Also, half of the 60 varieties tested are susceptible to cyst nematode, but only two can be found in the Top 20 reported below.

**Wheaton**—The season began cool and moist but dry soil conditions developed throughout much of the growing season, limiting the midseason growth. The end result was moderate plant height at harvest. Yield was also average due to the dry and hot weather through pod fill. Some varieties died down much sooner than others and plant health issues were likely a yield-determining factor here this season.

### 0.5-1.2 Maturity Group

### Top 20 of 60 tested

Company/Brand	Product/Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Battle Lake#	Evansville	Rothsay	Wheaton
Renk	RS084R2 (2)	RR2Y	0.8	S	None	50.8	13.6	1	648	11.7	57.0	41.9	53.5
Mustang	08824 \$	RR2Y	0.8	R	AC	50.2	13.3	0	640	18.0	59.1	37.7	53.8
Legend	LS-12R24N \$	RR2Y	1.2	R	AC	48.4	13.5	1	617	11.5	52.5	41.9	50.8
Dyna-Gro	S09RY64	RR2Y	0.9	R	CMB	48.0	13.3	0	612	12.7	57.2	40.0	46.8
Mustang	12224 \$	RR2Y	1.2	R	AC	47.1	13.3	0	601	13.7	57.8	34.6	49.0
Wensman	W 3062NR2	RR2Y	0.6	MR	AC,PV	46.9	13.4	1	598	13.4	50.6	35.8	54.4
Hefty	H09R4	RR2Y	0.9	MR	I	46.9	13.6	1	598	12.4	57.1	35.8	47.8
Rea	71G14	RR2Y	1.1	R	AC	46.9	13.6	1	598	12.1	53.0	41.3	46.3
Hefty	H06R4	RR2Y	0.6	MR	I	46.0	13.3	0	587	8.7	56.8	37.7	43.6
Prairie Brand	PB-0777R2	RR2Y	0.7	R	CMBV	45.9	13.7	0	585	12.6	56.5	36.4	44.8
Gold Country	1243	RR2Y	1.2	R	ACi	45.7	13.5	1	583	12.9	56.3	37.4	43.3
Mustang	07724	RR2Y	0.7	R	AC	45.6	13.4	1	581	11.4	55.3	37.7	43.7
Proseed	PX06	RR2Y	0.6	MR	AC	45.5	13.1	1	580	13.1	55.4	35.5	45.7
Dyna-Gro	S12RY44	RR2Y	1.2	R	CMB	45.5	13.3	1	580	12.8	54.9	37.4	44.3
Rea	69G14	RR2Y	0.9	MR	AC	45.4	13.2	0	579	13.6	53.6	35.9	46.8
Dairyland	DSR-0904/R2Y	RR2Y	0.9	MR	CMB	45.2	13.3	0	576	13.4	55.6	32.4	47.6
Wensman	W 3090NR2	RR2Y	0.8	MR	AC,PV	45.0	13.4	0	574	9.2	49.3	35.3	50.5
Dairyland	DSR-0606/R2Y	RR2Y	0.6	S	CMB	45.0	13.1	1	574	14.4	56.9	32.3	45.9
Legend	LS-08R24N \$	RR2Y	0.8	R	AC	45.0	13.2	1	574	12.7	57.2	35.3	42.6
Prairie Brand	PB-1234R2	RR2Y	1.2	R	CMBV	44.6	13.5	2	569	11.4	57.4	29.9	46.4
<b>Site Averages =</b>			<b>42.5</b>	<b>13.3</b>	<b>1</b>	<b>542</b>	<b>12.3</b>	<b>55.0</b>	<b>28.2</b>	<b>44.4</b>			
LSD (0.10) =			6.4	0.4	8					3.8	4.5	7.8	7.1

# = rejected results, not included in summary

# FIRST Minnesota Central Soybean Results

## Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Clinton	silty clay loam	conventional	30	5/11	136.8	low	1.41
Glencoe*	clay loam	conventional	30	6/3	138.7	low	3.00
Litchfield*	clay	conventional	30	5/27	135.5	low	1.51
Willmar	clay loam	conventional	30	5/18	136.9	low	0.79

Rainfall obtained on-site (\*denoted) or estimated from [www.weatherplot.com](http://www.weatherplot.com)



Mark Querna, FIRST Manager

### Soybean Stats:

Yield Range: 53.0-63.7 bu. per acre  
 Yield Average: 59.1 bu. per acre  
 Top \$ Per Acre: \$812

## Soybean Field Notes: Minnesota Central

**Clinton**—I planted this site the same day that I planted the FIRST corn tests for farmer member Doug Nelson, so it was planted two weeks ahead of the surrounding soybeans. Nelson's field surrounding the test plot averaged 43 bu. per acre. I started harvest on Oct. 2 but was rained out before completing it. All the soybeans were mature here, although some varieties held onto leaves at harvest. There was not a killing frost here prior to harvest.

**Glencoe**—Spring rains saturated the soil and caused delayed planting and slow early growth on this test plot. FIRST farmer member Mark Krcil said they received hail on July 21 and it appeared to set the soy-

beans back. However, they received more rain in July and August than many of the sites I manage, thus allowing the soybeans to reach superior yield levels. Mark's father, Gary stated that their yields (in bu. per acre) have ranged from the low 40s to mid-50s this year, depending on soil saturation. Field tile is one management key that Krcil Farms continues to invest in, and it pays dividends in higher yields.

**Litchfield**—Planting here was delayed slightly due to light but persistent rains in May. FIRST farmer member Tom Walsh sprayed Cobalt for aphids in late July before pressure was high. Soybeans did not mature quickly in Minnesota this year. The

full-season varieties were especially wet. Plants were robust and healthy at harvest, putting considerable strain on my plot combine. Walsh's spring weather was not quite as extreme as in other areas that I tested. I attribute his great yields to excellent fertility management and the variable weather that occurred from planting through harvest.

**Willmar**—Planting conditions here were quite good in spite of several light rains during the spring. Quality conditions were sustained throughout the year, but FIRST farmer member Ed Arndorfer did spray for aphids in August. Plants were very tall at harvest with no lodging and pods were plentiful.

### 1.3-2.0 Maturity Group

Top 20 of 63 tested

Company/ Brand	Product/ Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Clinton	Glencoe	Litchfield	Willmar
Wensman	W 3121NR2	RR2Y	1.2	R	AC,PV	63.7	12.6	0	812	54.2	61.8	67.0	71.8
Dairyland	DSR-1515/R2Y	RR2Y	1.5	MR	CMB,O	63.3	12.6	0	807	50.8	61.3	70.8	70.3
LG Seeds	C2050R2	RR2Y	2.0	R	AC,PV	63.0	12.5	0	803	47.2	61.8	70.0	73.0
Wensman	W 3160NR2	RR2Y	1.6	R	AC,PV	62.9	12.9	0	802	49.8	61.0	71.4	69.5
NK Brand	S20-T6 \$	RR2Y	2.0	R	CMBV	62.7	12.6	0	799	53.4	63.4	65.9	68.1
Prairie Brand	PB-1566R2	RR2Y	1.6	R	CMBV	62.6	12.6	0	798	47.7	62.0	71.1	69.6
Channel	1405R2	RR2Y	1.4	R	ACi	62.4	12.8	0	796	43.7	65.5	70.7	69.5
Gold Country	2040	RR2Y	2.0	R	ACi	62.0	13.0	0	791	47.1	62.4	64.7	73.9
Latham	L2084R2	RR2Y	2.0	R	SS+	62.0	13.0	0	791	48.4	64.3	66.5	68.9
Wensman	W 3200NR2	RR2Y	2.0	R	AC,PV	61.8	13.1	0	788	43.6	64.9	70.3	68.2
Anderson	204R2Y	RR2Y	2.0	R	None	61.7	12.6	0	787	45.2	63.3	67.2	71.1
LG Seeds	C1530R2	RR2Y	1.5	R	AC,PV	61.4	12.7	0	783	47.7	61.6	69.4	66.7
Stine	20RD20 \$	RR2Y	2.0	R	CMB	61.4	13.7	0	782	43.8	65.7	67.6	68.6
Titan Pro	15M22	RR2Y	1.5	R	CMBV	61.0	12.6	0	778	47.0	61.1	68.4	67.6
Latham	L1985R2	RR2Y	1.9	R	SS+	60.5	12.9	0	771	51.1	56.5	65.0	69.3
Stine	19RA02 \$	RR2Y	1.9	R	CMB	60.4	13.3	0	770	50.9	57.5	68.6	64.5
Gold Country	2143	RR2Y	2.1	MR	ACi	60.3	15.8	0	765	47.7	67.3	60.6	65.4
Latham	L1585R2	RR2Y	1.5	R	SS+	60.2	12.8	0	768	50.6	61.0	65.5	63.6
NorthStar	NS 1528NR2	RR2Y	1.5	R	ACi	60.2	12.8	0	768	43.4	60.4	66.4	70.4
Asgrow	AG1733 \$	RR2Y	1.7	R	ACi	60.1	12.7	0	766	49.6	58.5	66.5	65.8
<b>Site Averages =</b>			<b>59.1</b>	<b>12.9</b>	<b>0</b>	<b>753</b>	<b>46.4</b>	<b>59.2</b>	<b>65.3</b>	<b>46.4</b>	<b>59.2</b>	<b>65.3</b>	<b>65.4</b>
LSD (0.10) =			3.7	1.0	0	5.4	4.4	5.4	6.5				



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## Soybean Field Notes: Minnesota South Central

### Soybean Stats:

Yield Range: 52.4-65.6 bu. per acre

Yield Average: 59.5 bu. per acre

Top \$ Per Acre: \$836

**Bird Island**—This location missed many of the spring and early-summer rains that dominated the area. It remained in a moisture deficit most of the year. June saw a 5" rainfall, which caused water saturation on part of this site; in general, however, these soybeans were in search of water all through the growing season. FIRST farmer member Doug Toreen noted at harvest that he "didn't know where the yield came from," considering the lack of rainfall. There was no lodging at this site and the soybeans produced an average of 59.8 bu. per acre in the early-season test followed by a bump up to 64.3 bu. per acre in the full-season test. Due to the dry weather the soybeans averaged less than 11% moisture.

**Madison Lake**—Planting was delayed until June 14 here in Madison Lake due to persistent small rains and unseasonably cool weather. Once established, this site did very well. The soybean plants were tall and healthy at harvest. There was no lodging on this site. FIRST farmer Mike Krenik did spray for aphids in August, and rain in later August and September helped produce the yields you see for this site. Minnesota was able to avoid a killing frost until Oct. 20, which helped all late-season products to maximize yield. Moisture on this test was in the mid-11% on average. This site produced an average of 65.2 bu. per acre in the early-season test with a slight increase to 65.9 bu. per acre in the full-season test.

**Nicollet**—It was very wet and cool here from spring through the end of June. We delayed planting until June 3, which hampered early-season growth. July and August followed with quite dry and warm conditions. The soybean plants here in Nicollet were tall and healthy with no lodging at harvest. Yields have been above average here this year, but the range between high and low yield for both soybeans and corn has been more pronounced. FIRST farmer members Wayne and Dale Bjoklund did spray for aphids in August. I have noticed that yields are higher this year where aphids were controlled early. The average yield on this test was 56.7 bu. per acre in the early-season test and that increased slightly to 58.3 bu. per acre in the full-season test. Moisture on this test plot was in the mid-13% on average.

**Wabasso**—This test site was planted earlier than any other

soybean test plot in this region. It was planted on May 18 and we happened to get it in the ground right before another rainy period in May. The wet spring was followed by dry weather from July through August. In a year with normal rainfall, there is ample tile drainage, but under the extremely wet conditions of this year, the tile system was not adequate to drain one of the three early-season test replications. The soybeans in this replication were very short, lower yielding and a bit variable. The higher CV value reflects this variability for this test. Considering the wet spring and dry summer, soybeans on this test plot yielded well, averaging 48.4 bu. per acre in the early-season test and 56.9 bu. per acre in the full-season test. FIRST farmer member Leon Plaetz sprayed for aphids in August. He told me that yields were all over the place this year, both in soybeans and in corn.



Heavy snow delayed planting across southeast Minnesota. This photo was taken May 3 at Mark Querna's farm in New Richland, Minn. The snowfall that began on May 2 measured a foot deep.

Photo courtesy of Mark Querna

# FIRST Minnesota South Central Soybean Results



Mark Querna, FIRST Manager

## Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Bird Island	clay loam	conventional	30	5/24	137.4	low	1.04
Madison Lake*	clay loam	conventional	30	6/14	138.7	low	1.74
Nicollet	clay loam	conventional	30	6/3	137.9	low	1.48
Wabasso	clay loam	conventional	30	5/18	137.8	low	1.78

Rainfall obtained on-site (\*denoted) or estimated from [www.weatherplot.com](http://www.weatherplot.com)

## 1.5-1.8 Maturity Group

Top 20 of 42 tested

Company/Brand	Product/Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Bird Island	Madison Lake	Nicollet	Wabasso
Channel	1700R2	RR2Y	1.7	R	ACI	63.1	11.1	0	805	65.7	69.1	55.8	61.7
Asgrow	AG1733	RR2Y	1.7	R	ACI	61.7	11.2	0	787	69.5	61.5	57.1	58.7
Asgrow	AG1832 §	RR2Y	1.8	MR	ACI	61.3	11.4	0	782	65.4	69.6	55.8	54.2
NK Brand	S18-C2 §	RR2Y	1.8	R	CMBV	61.3	12.0	0	782	62.4	64.7	60.6	57.3
Prairie Brand	PB-1722R2	RR2Y	1.7	R	CMBV	60.9	11.3	0	776	67.6	70.9	61.8	43.4
Latham	L1585R2	RR2Y	1.5	R	SS+	60.9	11.4	0	776	62.7	66.0	63.7	51.0
Anderson	184R2Y	RR2Y	1.8	R	None	60.9	11.4	0	776	62.2	65.4	62.0	54.1
Channel	1805R2	RR2Y	1.8	MR	ACI	60.0	11.3	0	765	59.0	70.0	57.5	53.5
Dairyland	DSR-1515/R2Y	RR2Y	1.5	MR	CMB,O	59.6	11.1	0	760	59.5	68.3	52.9	57.7
Titan Pro	15M22	RR2Y	1.5	R	CMBV	59.3	11.3	0	756	62.7	69.4	58.2	47.0
Hefty	H18Y12	RR2Y	1.8	MR	I	59.2	11.3	0	755	59.6	68.5	63.7	44.9
Prairie Brand	PB-1566R2	RR2Y	1.6	R	CMBV	59.1	11.4	0	754	60.5	64.7	63.0	48.0
Renk	RS183NR2	RR2Y	1.8	R	CMB,O	59.1	11.7	0	754	60.0	63.2	58.1	55.1
Stine	16RA02 §	RR2Y	1.6	R	CMB	58.9	11.1	0	751	63.5	70.3	55.1	46.7
Dairyland	DSR-1808/R2Y	RR2Y	1.8	R	CMB,O	58.8	11.6	0	750	61.7	66.2	60.6	46.8
Dyna-Gro	S18RY33	RR2Y	1.8	R	ACI	58.6	11.4	0	747	64.2	65.5	57.3	47.4
Wensman	W 3160NR2	RR2Y	1.6	R	AC,PV	58.4	11.3	0	745	57.8	67.4	60.3	48.2
NorthStar	NS 1528NR2	RR2Y	1.5	R	ACI	57.7	11.4	0	736	60.0	64.8	57.8	48.1
LG Seeds	C1780R2	RR2Y	1.7	R	AC,PV	57.6	11.4	0	734	60.9	67.6	52.8	48.9
Viking	1707R2N	RR2Y	1.7	R	ACi,Ex	57.3	11.6	0	731	61.8	66.5	55.7	45.1
Viking	2000R2N CK	RR2Y	2.0	R	ACi,Ex	61.1	11.3	0	779	64.2	67.3	56.6	56.4
<b>Site Averages =</b>			<b>57.6</b>	<b>11.4</b>	<b>0</b>	<b>734</b>	<b>59.8</b>	<b>65.2</b>	<b>56.7</b>	<b>48.4</b>			
LSD (0.10) =			4.5	0.2	ns				5.5	4.6	5.7	6.5	

## 1.9-2.2 Maturity Group

Top 20 of 45 tested

Company/Brand	Product/Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Bird Island	Madison Lake	Nicollet	Wabasso
Gold Country	2243	RR2Y	2.2	R	ACi	65.6	11.7	0	836	74.6	69.1	60.4	58.2
Wensman	W 3200NR2	RR2Y	2.0	R	AC,PV	65.3	11.9	0	833	76.3	67.5	61.9	55.6
LG Seeds	C2050R2	RR2Y	2.0	R	AC,PV	64.8	11.4	0	826	66.7	69.2	63.8	59.4
Latham	L1985R2	RR2Y	1.9	R	SS+	64.6	11.5	0	824	62.9	71.0	62.7	61.7
Titan Pro	20M1	RR2Y	2.0	R	CMBV	64.2	11.4	0	819	62.2	69.3	64.9	60.3
Dairyland	DSR-2250/R2Y	RR2Y	2.2	MR	CMB,O	64.2	11.5	0	819	70.1	64.0	58.5	64.0
Prairie Brand	PB-2024R2	RR2Y	2.0	R	CMBV	64.1	12.1	0	817	71.6	64.4	60.0	60.5
Titan Pro	TP-21R63	RR2Y	2.1	MR	CMBV	63.8	11.7	0	813	68.4	65.3	61.2	60.2
Dyna-Gro	S20RY94	RR2Y	2.0	R	ACi	63.6	11.7	0	811	63.8	67.9	63.4	59.2
Dyna-Gro	S22RY64	RR2Y	2.2	MR	ACi	63.3	11.4	0	807	68.2	67.1	58.7	59.0
LG Seeds	C2222R2	RR2Y	2.2	R	AC,PV	63.1	11.6	0	805	69.3	66.9	59.3	56.8
Latham	L2084R2	RR2Y	2.0	R	SS+	63.0	12.2	0	803	64.3	67.3	60.5	59.8
Mustang	21993	RR2Y	2.1	R	AC	62.8	11.3	0	801	68.3	65.2	60.6	57.0
Stine	20RD20 §	RR2Y	2.0	R	CMB	62.7	12.1	0	799	66.5	67.4	57.6	59.4
Asgrow	AG2031 §	RR2Y	2.0	R	ACi	62.3	11.9	0	794	67.4	65.2	56.3	60.3
Dairyland	DSR-2105/R2Y	RR2Y	2.1	R	CMB,O	62.1	12.2	0	792	66.5	65.6	58.4	57.9
Prairie Brand	PB-2230R2	RR2Y	2.1	R	CMBV	62.0	11.5	0	791	66.0	65.8	57.5	58.8
Gold Country	2040	RR2Y	2.0	R	ACi	62.0	11.6	0	791	60.7	69.6	61.1	56.7
Wensman	W 3222NR2	RR2Y	2.2	R	AC,PV	62.0	11.8	0	791	60.4	68.9	60.6	58.2
Anderson	204R2Y	RR2Y	2.0	R	None	61.9	11.6	0	789	65.6	64.2	60.6	57.0
Viking	2000R2N CK	RR2Y	2.0	R	ACi,Ex	61.8	11.5	0	788	60.4	69.1	58.5	59.1
<b>Site Averages =</b>			<b>61.4</b>	<b>11.7</b>	<b>0</b>	<b>783</b>	<b>64.3</b>	<b>65.9</b>	<b>58.3</b>	<b>56.9</b>			
LSD (0.10) =			3.8	0.4	ns				6.4	3.9	5.2	5.4	

## Soybean Field Notes: Minnesota South

### Soybean Stats:

Yield Range: 48.3-62.4 bu. per acre

Yield Average: 55.9 bu. per acre

Top \$ Per Acre: \$796

**Easton**—Persistent light rains through April and May delayed planting until June 7. These wet conditions also continued throughout June, slowing plant development. Rainfall events in June were big here in Easton and in Jeffers, causing quite a bit of ponding and hampering root development. When I conducted stand counts here in mid-June, there was water standing in the low areas of several fields. From July through mid-September the weather was drier than normal, and I believe roots could not access enough nutrients to properly feed pod development. Yields this year have been “disappointing,” according to FIRST plot host Tom Warmka. These plants were very short at maturity and few plots yielded well here. Yield results were also a bit variable due to the wet conditions but not so variable as to void the test results. Average yields on the Easton FIRST test plot were averaging only 38.6 bu. per acre in the early-season test and 42.6 bu. per acre in the full-season test.

**Jeffers**—Excessive rainfall from April through June delayed planting until June 7 and subsequently delayed crop development. Mild hail fell on July 21, but that fortunately did not affect the test greatly. Rick Quade, the FIRST farmer member for the Jeffers site, stated that a hailstorm on Labor Day weekend did lower yields around the plot. On Aug. 15, Quade sprayed Lorsban to control aphids. Plants were short

at harvest with no lodging. Average yields here at the Jeffers FIRST test site were 47.6 bu. per acre in the early-season test and down a bushel to 46.6 bu. per acre in the full-season test. Quade mentioned that this was about 10 bu. per acre less than his best fields. Yields of both soybeans and corn have been highly variable this year due to heavy rainfall until July 1.

**Kasson**—Both this plot site and the surrounding field were planted June 3. FIRST farmer member Brian Herbst sprayed for aphids in mid-August. There was no lodging on this site. The 1.5” of rain in August and lack of frost through harvest helped this site produce top end yields. Herbst told me that he invested very little in this field because he believed yields would be below average. The average yield on this site, however, was 71.9 bu. per acre in the early-season test and 69.3 bu. per acre in the full-season test. Herbst also told me that the variety planted around the plot in rows spaced 20” apart

showed a yield of over 90 bu. per acre in more than one spot.

**New Richland**—Persistent rains in April, May and June (as well as 12” of snow on May 2) delayed planting here until June 3. Despite very moist conditions at planting, this site still showed good early growth. FIRST farmer member Leon Schoenrock sprayed Silencer for aphids. Receiving 1” of rain in both August and September was just enough to allow these soybeans to yield well. Schoenrock applies some phosphorus and potassium every fall before soybeans, keeping his fertility levels high on his fields. There was no lodging on this test, and average yields were 64.9 bu. per acre in the early-season test followed by 65 bu. per acre in the full-season test. Yield results in 2013 across southern Minnesota have shown that even a small rainfall at the proper time can help maximize yields as well as control aphid pressure. Missing one key rain can lower yields dramatically.



Photo courtesy of Mark Querna

On May 2 falling snow disrupted planting across much of southeast Minnesota. This photo was taken May 3 at Mark Querna's farm in New Richland, Minn. The snowfall measured 12” deep at Querna's farm.

# FIRST Minnesota South Soybean Results



Mark Querna, FIRST Manager

## Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Easton*	clay loam	conventional	30	6/7	131.6	low	1.26
Jeffers*	clay loam	conventional	30	6/7	135.9	low	3.00
Kasson	silt loam	conventional	30	6/3	134.9	low	2.96
New Richland*	clay loam	conventional	30	6/3	133.9	low	1.24

Rainfall obtained on-site (\*denoted) or estimated from [www.weatherplot.com](http://www.weatherplot.com)

## 1.6-1.9 Maturity Group

Top 20 of 36 tested

Company/Brand	Product/Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Easton	Jeffers	Kasson	New Richland
Gold Country	2040	RR2Y	2.0	R	ACi	60.5	11.0	0	771	45.6	53.1	77.3	65.8
NK Brand	S17-B3 §	RR2Y	1.7	R	CMBV	59.6	10.8	0	760	42.5	48.1	73.5	74.2
Wensman	W 3200NR2	RR2Y	2.0	R	AC,PV	58.9	10.9	0	751	40.4	51.3	77.5	66.4
Wensman	W 3160NR2	RR2Y	1.6	R	AC,PV	58.8	10.8	0	750	40.4	53.8	76.0	65.0
Channel	1805R2	RR2Y	1.8	MR	ACi	58.4	10.7	0	745	39.8	49.8	74.3	69.6
Prairie Brand	PB-1722R2	RR2Y	1.7	R	CMBV	58.4	10.7	0	745	44.6	51.8	68.4	68.6
LG Seeds	C1917R2	RR2Y	1.9	R	AC,PV	58.0	11.3	0	740	44.3	47.7	75.2	64.8
Prairie Brand	PB-1566R2	RR2Y	1.6	R	CMBV	57.9	10.7	0	738	39.0	50.5	75.7	66.5
Gold Country	1644	RR2Y	1.6	R	ACi	57.8	10.8	0	737	45.2	46.6	72.2	67.2
SOI	1741NRR2Y	RR2Y	1.7	R	CMB	57.6	10.7	0	734	38.5	50.6	72.1	69.1
Prairie Brand	PB-1843R2	RR2Y	1.8	R	CMBV	57.6	11.1	0	734	43.6	50.2	72.0	64.6
Gold Country	1943	RR2Y	1.9	R	ACi	57.5	10.6	0	733	43.0	49.9	68.0	69.2
Dairyland	DSR-1808/R2Y	RR2Y	1.8	R	CMB,O	57.4	10.9	0	732	46.3	46.5	70.1	66.7
Latham	L1948R2	RR2Y	1.9	R	SS+	56.9	10.2	0	725	38.5	48.5	75.5	64.9
Prairie Brand	PB-1982R2	RR2Y	1.8	R	CMBV	56.9	10.9	0	725	42.9	46.8	73.8	63.9
Asgrow	AG1733 §	RR2Y	1.7	R	ACi	56.5	10.7	0	720	39.4	48.5	70.9	67.3
Viking	1984R2N	RR2Y	1.9	R	ACi,Ex	56.3	11.3	0	718	45.4	45.8	68.4	65.5
Stine	16RA02 §	RR2Y	1.6	R	CMB	56.2	10.3	0	717	35.7	50.7	71.2	67.3
Pioneer	91Y92 §	RR	1.9	R	EE,G	55.8	10.7	0	711	42.4	46.4	73.2	61.1
Viking	1707R2N	RR2Y	1.7	R	ACi,Ex	55.7	10.7	0	710	38.1	47.7	72.0	65.1
Viking	2000R2N CK	RR2Y	2.0	R	ACi,Ex	57.7	10.8	0	736	40.5	51.9	72.3	66.1
<b>Site Averages =</b>			<b>55.8</b>	<b>10.7</b>	<b>0</b>	<b>711</b>	<b>38.6</b>	<b>47.6</b>	<b>71.9</b>	<b>64.9</b>			
LSD (0.10) =			3.9	0.6	ns		6.5	4.6	5.3	4.8			

## 2.0-2.3 Maturity Group

Top 20 of 54 tested

Company/Brand	Product/Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Easton	Jeffers	Kasson	New Richland
Dyna-Gro	S20RY94	RR2Y	2.0	R	ACi	62.4	11.3	0	796	50.9	54.0	71.5	73.0
Titan Pro	22M12	RR2Y	2.2	R	CMBV	59.9	11.7	0	764	54.8	48.3	69.1	67.2
Stine	20RD20 §	RR2Y	2.0	R	CMB	59.6	12.0	0	760	46.9	52.2	72.8	66.4
Renk	RS213NR2	RR2Y	2.1	R	CMB,O	59.5	12.2	0	759	47.2	50.7	71.6	68.5
Dyna-Gro	S22RY64	RR2Y	2.2	MR	ACi	59.1	11.2	0	754	43.8	48.4	72.8	71.4
Channel	2306R2	RR2Y	2.3	R	ACi	59.1	11.8	0	754	48.9	50.7	73.4	63.2
Asgrow	AG2232 §	RR2Y	2.2	R	ACi	59.1	13.3	0	753	51.2	46.6	72.6	65.9
LG Seeds	C2050R2	RR2Y	2.0	R	AC,PV	58.8	11.0	0	750	40.6	50.1	79.9	64.5
Stine	22RD00 §	RR2Y	2.2	MR	CMB	58.8	11.2	0	750	48.3	48.2	67.4	71.4
Prairie Brand	PB-2024R2	RR2Y	2.0	R	CMBV	58.8	12.2	0	750	39.8	51.4	73.8	70.2
Dairyland	DSR-2250/R2Y	RR2Y	2.2	MR	CMB,O	58.4	11.1	0	745	49.3	48.3	65.2	70.8
Gold Country	2243	RR2Y	2.2	R	ACi	58.2	11.3	0	742	49.7	47.6	69.5	65.9
NK Brand	S22-F8 §	RR2Y	2.2	S	CMBV	58.2	11.8	0	742	49.6	43.4	71.7	68.2
Titan Pro	20M1	RR2Y	2.0	R	CMBV	58.0	11.0	0	740	43.9	50.3	70.3	67.4
LG Seeds	C2222R2	RR2Y	2.2	R	AC,PV	57.5	11.2	0	733	41.2	48.7	73.4	66.7
Kruger	K2-2301	RR2Y	2.3	S	ACi	57.3	11.8	0	731	46.5	44.2	70.9	67.6
Asgrow	AG2031 §	RR2Y	2.0	R	ACi	57.0	10.3	0	727	40.7	47.5	70.4	69.4
Channel	2105R2	RR2Y	2.1	MR	ACi	57.0	13.6	0	726	50.8	44.9	71.3	61.1
Wensman	W 3222NR2	RR2Y	2.2	R	AC,PV	56.9	11.1	0	725	47.1	49.2	70.4	60.7
Titan Pro	23M9	RR2Y	2.3	S	CMBV	56.6	11.6	0	722	45.7	43.6	71.3	65.8
Viking	2000R2N CK	RR2Y	2.0	R	ACi,Ex	57.2	10.6	0	729	38.8	50.9	72.0	66.9
<b>Site Averages =</b>			<b>55.9</b>	<b>11.5</b>	<b>0</b>	<b>713</b>	<b>42.6</b>	<b>46.6</b>	<b>69.3</b>	<b>65.0</b>			
LSD (0.10) =			4.1	0.9	ns		5.7	4.1	4.8	5.2			



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