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Heartland 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**



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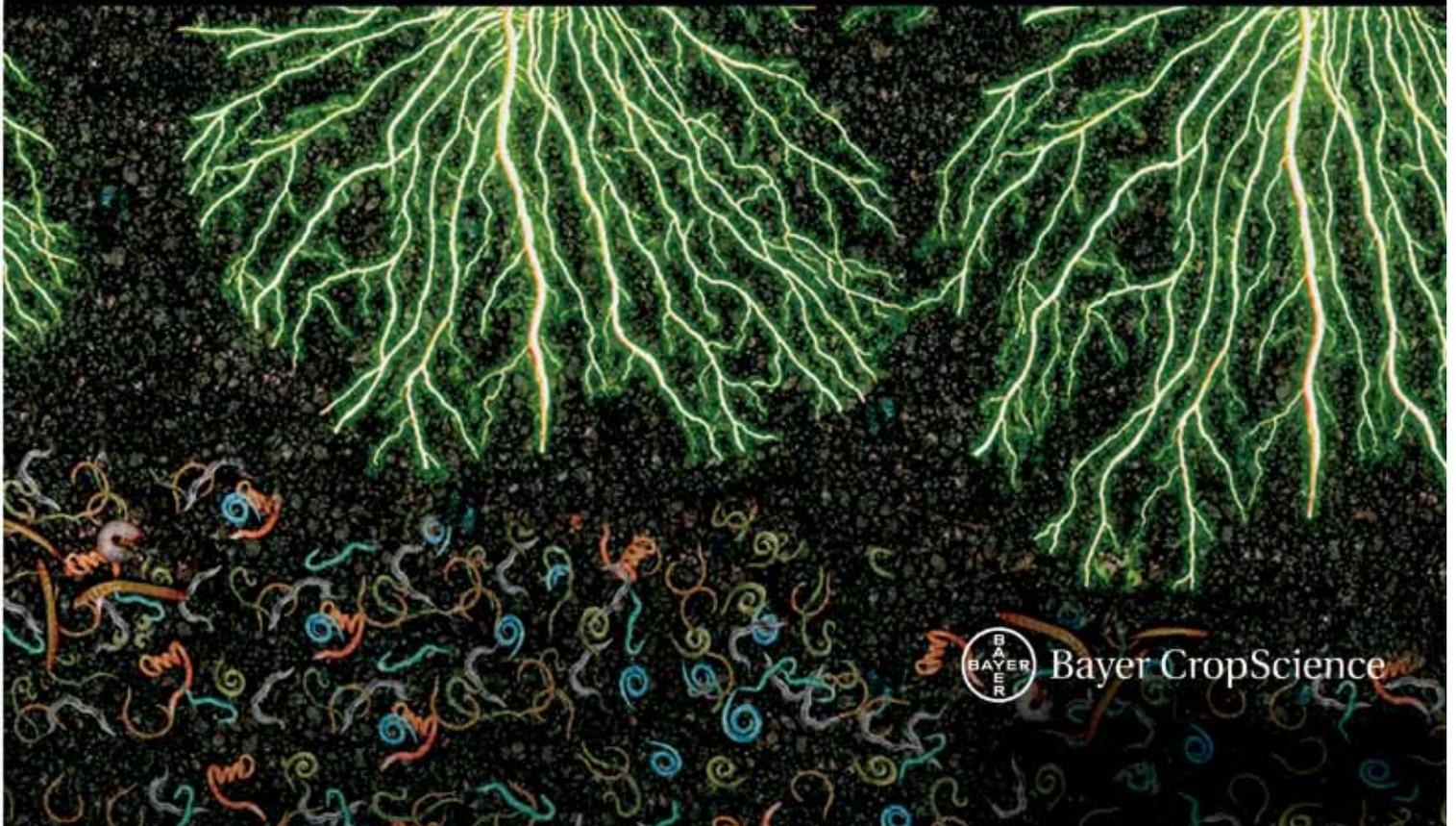
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 **PONCHO**

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# How to Interpret F.I.R.S.T. Trials

**F**armers Independent Research of Seed Technologies (F.I.R.S.T.) is an independent corn and soybean yield testing service. We compare product yield performance in grower fields across 14 states: Delaware, Illinois, Indiana, Iowa, Maryland, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Pennsylvania, South Dakota and Wisconsin. In 2011, we compared yields of 875 corn grain and 473 soybean products. In total, more than 63,900 plots spread across 260 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 F.I.R.S.T. seed tests. The only exceptions are check products (CK), chosen by F.I.R.S.T. managers to bridge results between early- and full-season tests, and Grower Comparison products (denoted by GC at the end of the product name), provided by our host farmers for their knowledge.

F.I.R.S.T. 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" single rows, four 30" single rows or four 30" twin rows spaced

8" apart). 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 products within a 10-day maturity range are pooled into a single all-season test or split into early- and full-season tests depending on entry volume. Soybean products must fall within a 0.7 maturity range.

All seed products entered in a region are seeded at each of six corn and four soybean locations within the region. Products are replicated three times per test 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 nonuniform 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, 2,000 to 12,000 and more than 12,000 eggs are classified as low, medium or high populations, respectively.

F.I.R.S.T. 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 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

## Footnotes and Abbreviations:

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

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

Brands identified with \* had no commercial seed lot number.

Brand names ending with GC are grower chosen product entries.

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

^ G2® brand seed is distributed by NuTech Seed, LLC. RPM® brand seed is distributed by Doeblers PA Seed. Supreme EX® brand seed is distributed by Seed Consultants, Inc. XL™ and Phoenix™ brand seeds are distributed by Beck's Superior Hybrids. G2®, RPM®, Supreme EX®, and XL™ are trademarks of Pioneer Hi-Bred.

ns – not significant

SCN Resistance:

S – Susceptible,

MR – Moderately Resistant,

R – Resistant.

region and individual site results. Statistically, the LSD value is the difference needed between two products to accurately state that one product is better than another 9 times out of 10 (90% probability).

F.I.R.S.T. 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 or additional results visit [www.firstseedtests.com](http://www.firstseedtests.com).

## Technologies

3000GT	Agrisure® 3000GT
3111	Agrisure® Viptera™ 3111
AMRW	Optimum® AcreMax™ Rootworm Protection
CB/LL	Agrisure® CB/LL
CB/LL/RW	Agrisure® CB/LL/RW
GT	Agrisure® GT
GT/CB/LL	Agrisure® GT/CB/LL
HX	HERCULEX® I Insect Protection
HXT	HERCULEX® XTRA Insect Protection
LL	LibertyLink® herbicide tolerance
RR	Roundup Ready® Soybeans
RR2	Roundup Ready® Corn 2
RR2Y	Genuity® Roundup Ready 2 Yield®
STX	SmartStax®
STS	STS® herbicide tolerance
VT2P	Genuity® VT Double PRO™
VT3	YieldGard VT Triple®
VT3P	Genuity® VT Triple PRO™

## Seed Treatments

A	Allegiance®
AC	Acceleron®
AM	ApronMaxx®
AP	Apron XL®
AV	Avicta®
C	Cruiser®
CM	CruiserMaxx®
E	Excalibre™
I	Inovate™ System
G	Gaucho®
O	Optimize®
P	Poncho®
T	Trilex®
T2	Trilex® 2000
T6	Trilex® 6000
V	VOTIVO®
n/a	not available

## Additional F.I.R.S.T. Data Available

Readers looking for more details about cropping practices, products tested, hosting a test location or desiring to search results online can visit [www.firstseedtests.com](http://www.firstseedtests.com). You can view our blog and download Harvest Reports by location or products tested lists sorted by region or company. Seed Scout is an online tool allowing you to search F.I.R.S.T. results by your interests; crop, state, region, maturity, or technology to identify the best seed products for your production practices.

There are 4 print editions. Each edition contains F.I.R.S.T. results from a different geography. Visit [www.firstseedtests.com](http://www.firstseedtests.com), click Media and Print Media to download or view all four editions or type [www.firstseedtests.com/printmedia.htm](http://www.firstseedtests.com/printmedia.htm) into your browser.

## Heartland Edition

Covering Iowa, Missouri and Nebraska

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**F.I.R.S.T.**  
Farmer's Independent Research  
of Seed Technologies

# How to Evaluate A Hybrid

**T**he largest limiting factor in a field is not the soil, Mother Nature or machinery; it's the farmer's acumen about seed selection. Seed selection is part science, part mystery and part luck. However, some parts of the process never change.

### Data Matters

It's not about having the most data (although that can be helpful) but having the right data. The key is finding tests that are near your area and match the most variables to your farm—soil type, soil condition, pest pressures (insects, weeds and diseases), previous crop grown and, of course, weather.

"I do a lot of plots myself. I also sell seed for CPS [Crop Production Services], which has plots; I use the University of Missouri trials; and I'm glad to have the F.I.R.S.T. plots now. F.I.R.S.T. is one more good source of info that's right in my backyard," says Shawn Kiefaber, who farms near Palmyra, Mo.

Kiefaber says multiple sources of data are important to him because he wants to see hybrids pitted against each other. F.I.R.S.T. gives him that opportunity, he notes, but in other trials, competing products aren't always compared and it's hard to draw meaningful conclusions. This is the first year the F.I.R.S.T. trials have expanded into Missouri.

### Secondary Factors

While yield is the main determinant of profit potential, it's usually not the deciding factor. The tipping point comes with secondary factors like standability, moisture, disease packages and traits.

"The No. 1 factor I'm looking at

is yield, of course, but it's no good having 200-plus bushels of corn and it's down," says Dwight Bartle, who farms near Brown City, Mich. "With F.I.R.S.T. test plots, I look at yield and then I look at standability [lodging]. I am extremely picky. The difference between a zero and a one is huge, in my opinion."

Grain moisture is also a factor in determining the hybrids he selects. Besides the cost of drying corn, another consideration is time. A difference of even three percentage points in moisture can considerably slow down Bartle's operation and hamper his productivity. He chooses hybrids that are at or below average moisture in yield trials. "Because of the time factor, moisture is critical," he says.

### Replication and Consistency

Replication takes much of the guesswork out of plot trials. "With replication, product performance anomalies are evened out," says Joe Bruce, F.I.R.S.T. general manager. "Just as taking more soil cores evens out the highs and lows of a soil test, replications in a yield test show you which hybrids win in terms of consistency. Farmers don't want to plant the hybrid that hit a home run one time then struck out the next; they want the one that consistently provides a good return on investment. Replications help identify a hybrid that delivers across multiple situations. That's what farmers need to look for because those results are more easily repeatable in their own field. That's why F.I.R.S.T. replicates every product three times per test location."

Farmers will take every data set they can get their hands on to confirm if a seed selection is a good

choice. Jon Schram, who farms near Gretna, Neb., is no exception. Schram uses F.I.R.S.T. data as well as plot data from local field trials. He says that most company plot trials are not replicated trials, so he looks at how individual hybrids did in as many locations as he can find. And Schram keeps data from multiple years. With hybrids cycling through development so fast he can usually find only two or three years' worth of data on any hybrid. However, he thinks looking back gives him an edge. At first, he doesn't pay much attention to what did well, he says, but looks instead for the ones that didn't do well. Anything in the bottom third or half of a plot trial he'll avoid.

"It's easier to eliminate the ones I will give a pass to and then weed it down," Schram says. "The consistent ones at the top jump out at you. If you pay attention to the top third and the bottom third of the tests, you notice those hybrids you should keep and those you should avoid."

### Test Everything

Once seeds make the cut, you should continue to compare them. Every field is an opportunity to learn what should make the cut for next year. Most of Schram's fields have a side-by-side trial or a split planter test so he can compare hybrids of the same maturity and characteristics.

"I like to keep a hybrid around for about three years. The first year, you're trying it; the second year, you're comfortable with it; and the third year, you put some newer stuff up against it," Schram says. "After two years, you have to have a handle on the hybrid, because in another two you might not be able to buy it even when you want to."



# 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.

**IMPORTANT:** This information 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.

\*Guidelines only – consult your state’s extension nematologist.

Photos courtesy of J. Eisenback, Virginia Tech University.

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BCSRVOTiVOB0130A





Corey Rozenboom, FIRST Manager



## Corn Field Notes: Iowa North

### Corn Stats:

Yield Range: 156.7-187.6 bu. per acre

Yield Average: 175.9 bu. per acre

Top \$ Per Acre: \$1,268.10

**Emmetsburg**—The Emmetsburg test site was planted this year on May 4. The plot did receive a few timely rains from pollination through grain fill that allowed the hybrids to finish the growing season strong in spite of an outbreak of gray leaf spot throughout the testing site. A visit to the site occurring late in the month of July also revealed the presence of eyespot, Physoderma brown spot, and Stewart's wilt. The differences in stalk quality between some of the hybrids were very apparent and the lodging scores here are a reflection of that. This test site was harvested on Oct. 19. The average yields were 198.1 bu. per acre.

**Greene**—The Greene test plot, which was planted on May 7, had some consistent rains right up to pollination, which allowed for good stand and tall plants. Then, some dry weather, combined with a high incidence of gray leaf spot as well as the appearance of corn aphids, provided enough stress to the hybrids to cause kernel abortion from the tip. The occurrence and extremity of kernel abortion varied, depending on the maturity of the hybrid. These same stressors—dry weather, gray leaf spot and corn aphids—also favored the development of stalk rot, which then led to the high lodging scores that are noted here. The test produced an average yield of 170.2 bu. per acre.

**Lu Verne**—The Lu Verne test plot was planted on May 4, and some of the early seasonal rains experienced here helped this site get off to a great start this season—that is, until pollination. The kernel set was nearly all the way to the tip on ears across the testing site. Hot and dry weather occurring from mid-July all the way to mid-August followed, which then lowered kernel weights and yields.

In order to be a top performer at this site, hybrids needed to have good tolerance toward gray leaf spot and Stewart's wilt. The lodging that was experienced here was insignificant, so it did not hinder the harvest or the yield. The average yields produced on this site were 185.6 bu. per acre.

**Mason City**—The Mason City test site was planted on May 11. Some high temps experienced through the reproductive stages as well as the occurrence of an early outbreak of gray leaf spot both took a big toll on this continuous corn site and also caused the presence of tip dieback. The high numbers of Western corn rootworm beetles noted late in the month of August also may have hampered pollination from silk feeding. Corn flea beetles were observed as well, and Stewart's wilt was also observed among the susceptible hybrids. Ouch! The rough season that was experienced this year put yield averages at 149.4 bu. per acre. The

Photo courtesy of Corey Rozenboom



An aerial view of the Emmetsburg, IA testing location. You can see a healthy soybean field in the foreground, and the differences in the corn plot testing in the upper right half of the image.

# F.I.R.S.T. Iowa North Corn Results



ALL SEASON TEST 95 - 100 Day CRM

Top 30 of 54 tested

Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Emmetsburg	Greene	Lu Verne	Mason City	Paulina	Saratoga
Channel Jung	199-55VT3 7V429	VT3 VT3P	P500,V P500	99 96	<b>187.6</b> <b>187.3</b>	15.9 15.9	11 12	1,268.10 1,266.10	1 2	212.9 209.8	181.0 <b>184.0</b>	<b>207.2</b> 187.7	154.0 161.4	182.7 <b>193.4</b>	
LG Seeds G2 Genetics	LG2501VT3Pro 5H-0101^	VT3P HX,RR2	P500,V P1250,V	100 100	<b>186.4</b> <b>186.1</b>	16.8 15.9	5 3	1,252.40 1,257.90	4 3	199.4 209.2	<b>185.5</b> 182.1	195.2 191.4	<b>167.5</b> 161.7	184.6 186.3	
FS Seeds NuTech	FS 49SX1 5N-001*	STX 3000GT	C250 C250	99 100	<b>185.6</b> 185.0	16.9 16.7	4 8	1,246.20 1,243.80	5 6	<b>217.2</b> <b>218.8</b>	176.2 174.9	186.1 186.8	<b>165.8</b> 143.1	182.9 <b>201.4</b>	
Channel AgriGold	197-32VT3P A6276VT3	VT3P VT3	P500,V P500,V	97 101	184.7 184.1	16.8 17.9	10 3	1,241.00 1,227.90	7 12	208.1 <b>213.7</b>	178.7 180.1	196.4 191.8	153.3 153.8	186.9 181.0	
Cornelius Dekalb	C329-3000GT DKC51-85 GC	3000GT STX	C250 P500	100 101	184.0 184.0	16.3 16.7	7 2	1,240.40 1,237.10	9 11	210.2 204.5	168.6 178.6	195.2 194.9	152.6 <b>167.5</b>	<b>193.6</b> 174.5	
Channel G2 Genetics	199-54R 5X-895^*	RR2 HXT,RR2	P500,V C250	99 94	183.5 182.7	16.0 15.2	3 2	1,239.50 1,240.70	10 8	<b>228.2</b> 202.5	160.9 175.3	194.1 189.6	150.9 160.2	183.3 185.8	
LG Seeds Gold Country	LG2468VT3 95-15	VT3 STX	P500,V P500,V	97 95	181.5 180.4	16.5 16.5	10 1	1,221.90 1,214.50	13 14	200.5 205.4	173.9 163.3	190.0 185.2	162.9 157.6	180.4 190.6	
AgriGold Gold Country	A6220VT3Pro 96-20	VT3P VT3P	P500,V P250	98 96	180.1 179.3	16.5 15.8	10 6	1,212.50 1,212.80	16 15	195.1 198.2	170.2 <b>185.4</b>	192.3 172.4	152.3 160.2	190.7 180.2	
Channel AgriGold	196-06VT3P A6256STX	VT3P STX	P500,V P500,V	96 100	179.2 178.9	16.7 17.1	15 4	1,204.90 1,199.60	19 21	<b>222.3</b> <b>215.2</b>	167.0 170.6	187.1 176.5	151.5 152.7	168.3 179.4	
Kruger Wyffels	K-7495 W1831	VT3P VT3P	P500,V P250	95 97	178.8 178.6	15.9 15.9	5 12	1,208.60 1,207.20	17 18	198.6 194.0	179.4 168.0	192.6 <b>199.2</b>	<b>177.3</b> 149.4	146.2 182.5	
Pioneer Wyffels	P0115AM1 GC W2680 GC	HXT,RR2 RR2	C250 P250	101 100	178.3 177.9	17.0 15.9	6 7	1,196.40 1,202.50	22 20	197.9 194.2	175.8 167.5	194.6 191.0	153.0 154.6	170.1 182.1	
AgriGold Viking	A6203VT3 A91-00R	VT3 RR2	P500,V C250	96 100	177.5 177.0	16.7 16.7	6 3	1,193.40 1,190.10	24 27	201.9 193.1	171.1 173.9	190.8 186.0	154.1 156.6	169.5 175.4	
Jung Great Lakes	7452VT3 4689G3VT3	VT3 VT3	P500 P500,V	98 96	176.9 176.8	16.2 16.0	15 5	1,193.40 1,194.30	25 23	195.5 198.7	170.0 164.2	186.4 176.7	140.0 <b>167.3</b>	<b>192.4</b> 177.3	
Wyffels Titan Pro	W1941 1018	VT3 none	P250 C250	98 101	176.4 176.4	16.3 17.2	9 4	1,189.20 1,182.10	28 30	203.6 <b>217.1</b>	175.1 165.8	187.5 180.1	140.3 144.7	175.4 174.4	
Kruger Renze	K-6399VT3 2072-3000GT*	VT3 3000GT	P500,V C250	99 96	176.2 174.1	16.0 15.1	16 20	1,190.20 1,183.10	26 29	192.5 201.5	156.3 167.9	180.4 182.5	<b>163.6</b> 139.9	188.1 178.9	
<b>Test Average =</b>					<b>175.9</b>	<b>16.6</b>	<b>8</b>	<b>1,183.70</b>		<b>198.1</b>	<b>170.2</b>	<b>185.6</b>	<b>149.4</b>	<b>176.4</b>	
LSD (0.10) =					9.6	0.8	8			15.2	12.5	12.9	13.9	16.0	

Lost to Severe Stalk Lodging

lodging scores were right around 20 percent.

**Paulina**—A cool and wet start to the growing season here at the Paulina test site was then followed by some hot and dry weather during ear formation and pollination. Consequently, the corn plants had underdeveloped root systems that were limiting moisture uptake through the reproductive stages. When all of this was

combined with the foliar stress from gray leaf spot and eyespot, the effects experienced here were short ears, tip dieback occurring up to 1 inch and the kernel depth being relatively shallow. The average yields produced here were 176.4 bu. per acre.

**Saratoga**—A strong storm on Sept. 2 totally leveled this Saratoga testing site and left over 90 percent of the plants at ankle height

as well as completely lodged. The nearby wind-monitoring stations reported that there were sustained winds of 100+ mph experienced for over three minutes. Despite an effort to salvage some of the data, nothing in this test site was harvestable. Despite the wind damage, Mark Christianson, F.I.R.S.T. farmer member, successfully harvested nearby fields off the ground with a reel.

Site Information						2011 Rainfall (inches)					
Iowa North						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Emmetsburg	silty clay loam	minimum	soybean	140	5/4	4.49	7.72	3.91	1.81	-1.52	-3.34
Greene	silt loam	minimum	soybean	131	5/7	4.40	4.23	4.22	3.41	-0.91	-1.48
Lu Verne	silty clay loam	minimum	soybean	160	5/4	5.34	4.72	4.16	2.54	-1.85	-2.65
Mason City	silty clay loam	conventional	corn, 2+ yr	212	5/11	5.18	4.79	5.93	1.41	1.22	-3.26
Paulina	silty clay loam	minimum	soybean	135	5/2	4.73	4.98	2.12	0.96	-2.05	-3.31
Saratoga	silty clay loam	minimum	soybean	180	5/11	3.73	2.48	2.94	1.85	-3.24	-4.16

# PONCHO®/VOTiVO®

## CORN AND SOYBEAN Q&A

### WHAT IS PONCHO/VOTiVO SEED TREATMENT?

Poncho®/VOTiVO® is a seed-applied product that combines proven early-season insect control with biological protection from a broad range of nematodes in corn, soybeans, and cotton.

### I'VE USED PONCHO ON MY CORN – HOW DOES IT PERFORM ON SOYBEANS?

Poncho/VOTiVO brings to soybeans the trusted and reliable insect control of Poncho. The formulation delivers the rate of Poncho required to control many important early-season insect pests, such as aphids, bean leaf beetles, grape colaspis, seed corn maggots, wireworms, and others. Poncho is now available for soybeans in combination with VOTiVO.

### HOW DOES PONCHO/VOTiVO PROTECT PLANTS AGAINST NEMATODES?

Millions of spores of the bacteria in Poncho/VOTiVO are applied directly to every seed. Once the seed is planted and the environment is favorable for seed germination, the bacteria also germinate and begin to grow and multiply exponentially. The bacteria continue to grow with the plant to protect roots from nematode damage during the critical stage of plant establishment.

These bacteria compete with nematodes for space and food resources by forming a protective barrier around the young root in the rhizosphere (root zone) of the soil. The bacteria use root exudates, a food source for nematodes that also attracts the pest to plant roots. Fewer nematodes therefore reach the root surface, and some even die from lack of nutrients. Poncho/VOTiVO does not directly kill nematodes, but it renders many of them ineffective.

### ARE NEMATODES A PROBLEM IN CORN?

Nematodes can cause 30 percent crop losses in corn without exhibiting any above-ground symptoms. There are several species of plant-pathogenic nematodes that can be found in corn, including needle, root-lesion, lance, dagger, stubby root, sting, spiral, root-knot, and stunt. Depending on type and severity of infestation, nematodes can cause stunting, chlorosis, root decay, and other damage.

### I PLANT SOYBEAN CYST NEMATODE-RESISTANT SOYBEAN VARIETIES. DOESN'T THAT OFFER ADEQUATE NEMATODE PROTECTION?

Resistance has been bred into many soybean varieties, but no SCN-resistant variety offers total protection against this pest, which causes an estimated \$1 billion in crop losses annually. Some lines of SCN-resistant varieties have shown a slow decline in effectiveness due to SCN population shifts among its 16 distinct races. Depending on geographic location, soybean growers may also have infestations of root-knot and/or reniform nematodes.

### DOES PONCHO/VOTiVO PROVIDE ANY DISEASE PROTECTION?

Poncho/VOTiVO decreases nematode and insect damage to roots. Nematodes feed by piercing root tissue with their sharp mouth parts called stylets. The ensuing punctures serve as points of entry for several significant plant pathogens that cause seedling diseases. Soil insect feeding also damages young root tissue causing openings that other soilborne pests use as a means to establish infections.

### WHAT YIELD BENEFITS DOES PONCHO/VOTiVO PROVIDE?

In a three-year span and on 400+ corn field trials, Poncho/VOTiVO delivered an average of 6 to 8 bu/A over the 250 rate of Poncho. Even higher yields were seen in areas that have economically significant nematode populations.

In more than 100 head-to-head soybean trials conducted over the past year, Poncho/VOTiVO produced a consistent average of 1 to 1.5 bu/A more than the current Bayer CropScience premium seed treatment, Trilex® 6000 Soybean System,\*\* which in turn averages 4 to 6 bu/A more when tested against untreated checks in stressful environments.

### BEYOND YIELD, WHAT ARE THE BENEFITS OF USING PONCHO/VOTiVO?

Poncho/VOTiVO increases root development resulting in healthier and more vigorous plants. It has been shown to increase stands when compared to the untreated seed. A larger root system often results in enhanced water and nutrient uptake, resulting in increased yields.

### IS IT EFFECTIVE TO COMBINE A TRADITIONAL CHEMICAL WITH A BIOLOGICAL COMPONENT?

Combining a chemical and a biological component leads to the pairing of different modes of action for different types of pests into a simple-to-apply single formulation. It is a challenging task to pair a traditional seed treatment with a biological product, but Bayer CropScience has crafted a formulation that is stable in the container and on the seed from application time through planting.

### IS PONCHO/VOTiVO SAFE FOR THE SEED, INCLUDING CARRYOVER CORN SEED?

The germination of seed treated with Poncho/VOTiVO has been evaluated in the field and in the laboratory using industry-standard germination tests. These studies have shown Poncho/VOTiVO has no negative impact on germination speed or counts. Storage tests have shown no concerns when carrying over seed treated

\*\*Trilex 6000 Soybean System consists of Trilex 2000, Gaucho® 600 Flowable, Yield Shield® Concentrate Biological Fungicide, Precise™ Soybean, and Pro-Ized® red colorant.

the previous year with Poncho®/VOTiVO®. This product is undergoing additional germination evaluation by an independent seed lab as well as a university seed testing department.

## IS ANY SPECIAL EQUIPMENT NEEDED TO APPLY PONCHO®/VOTiVO® TO THE SEED?

No special equipment is needed to apply Poncho/VOTiVO to the seed. It can be applied using the same commercial seed-treatment equipment used to apply other leading seed treatments offered by Bayer CropScience or with standard soybean seed treatment equipment that has been certified by your Bayer CropScience representative. It is not for use in hopper box, planter box, slurry box, or other on-farm applications.

## BECAUSE PONCHO/VOTiVO CONTAINS A LIVING MICROORGANISM, ARE THERE ANY SPECIAL REQUIREMENTS FOR STORING THE PRODUCT OR TREATED SEED?

For best results, Poncho/VOTiVO must be stored between 32°F and 86°F. Ideally long-term product storage should have temperature-controlled conditions; areas typically used for long-term seed storage may also provide favorable conditions for product storage. Transportation through hot conditions will not affect the viability of Poncho/VOTiVO unless at higher temperatures for continuous periods of time. Once the product is on the seed, store treated seed at a standard temperature and humidity to assure seed viability.

## DOES THE BACTERIA IN PONCHO/VOTiVO CARRY OVER IN THE SOIL FROM YEAR TO YEAR?

While the bacteria is able to live and grow in the soil, it is not able to survive on dead plant tissue for very long. Therefore, an acre of treated seed will not result in a sustained population of bacteria from one season to the next.

## WILL PONCHO/VOTiVO BE EFFECTIVE IN ALL SOIL TYPES AND IN ENVIRONMENTS WITH VARIOUS TEMPERATURES AND MOISTURE?

**IMPORTANT:** This information 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.

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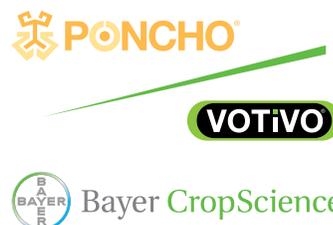
Poncho/VOTiVO has been shown to provide benefits on multiple seed types, including soybean, corn, and cotton. Yield benefits have been seen across a wide range of environments that includes all different types of soil. Moisture is needed to induce the spore of Poncho/VOTiVO to germinate. If there is enough moisture for a corn or soybean seed to germinate and grow, then there is adequate moisture for the bacteria to begin to multiply. The bacteria of Poncho/VOTiVO can grow across a wide temperature range.

## HOW LONG DOES THE PROTECTION LAST?

Poncho/VOTiVO provides protection through the critical time of plant development that includes seed germination, seedling emergence, and the establishment of the plant's production potential. Research shows the VOTiVO bacteria on the roots and in the rhizosphere 60+ days following seed germination. Unlike traditional nematicides, which begin to break down immediately, Poncho/VOTiVO keeps deterring nematodes from attacking the plant's root system through the first two generations of nematodes.

## IS PONCHO/VOTiVO COMPATIBLE WITH SEED-APPLIED INOCULANTS?

Yes. Poncho/VOTiVO has been tested by Bayer CropScience and was found to have compatibility similar to other commercial soybean seed treatments. Testing is underway by several manufacturers of inoculants (see companies' Web sites for additional information).





Corey Rozenboom, FIRST Manager



## Corn Field Notes: Iowa North West

### Corn Stats:

Yield Range: 152.9-204.8 bu. per acre

Yield Average: 186.7 bu. per acre

Top \$ Per Acre: \$1,350.20

**Emmetsburg**—After a May 4 planting, timely rains from pollination through grain fill allowed hybrids to finish strong in spite of gray leaf spot. Late July revealed eyespot, Physoderma brown spot and Stewart's wilt. Stalk-quality differences were apparent; lodging scores reflect that. Harvested Oct. 19, this plot averaged 196 bu. per acre and 204.6 bu. per acre on the early-season and full-season tests, respectively. The highest yield was 229.1 bu. per acre.

**Lu Verne**—Planted May 4, this site had a great start (until pollination) with early rains. Kernel set was nearly to the tip. A hot, dry mid-July to mid-August followed, lowering kernel weights and yields. Top performers could tolerate gray leaf spot and Stewart's wilt. Insignificant lodging did not hinder harvest or yields, which averaged 191.9 bu. per acre on the early-season test and 195.9 bu. per acre on the full-season test.

**Paullina**—A cool, wet beginning turned into hot, dry weather dur-

ing ear formation and pollination. Consequently, underdeveloped root systems limited moisture uptake through reproductive stages. Combined with foliar stress from gray leaf spot and eyespot, this resulted in short ears, tip dieback up to 1 inch and shallow kernel depth. Yields averaged 182.1 bu. per acre and 186.4 bu. per acre in the early-season and full-season tests, respectively.

**Rembrandt**—Hot, dry weather during ear formation and pollination caused tip dieback up to 1 inch, depending on pollination time. The small ears had good kernel depth. Besides gray leaf spot in susceptible hybrids, there was not much disease or insect pressure. Yields averaged 188.5 bu. per acre in the early-season test and 188.3 bu. per acre in the full-season test.

**Remsen**—Favorable early weather allowed ears more kernels per row than could be filled, due to the following hot, dry July and August. Tip dieback from 0.25 to 1 inch was common. Top hybrids

had good standability when a wind event green snapped others. Yields averaged 176.9 bu. per acre in the early-season test and 194.4 bu. per acre with full-season hybrids.

**Rinard**—This continuous corn site revealed hybrids' strengths and weaknesses to Goss's wilt, Northern corn leaf blight and gray leaf spot. These all limited yields; Goss's wilt, also prevalent in the nearby area, was the biggest killer. Ear-size, kernel-depth and stalk-integrity differences were apparent between hybrids. Yields averaged 155.6 bu. per acre in the early-season test and 179.6 bu. per acre in the full-season test.



Photo courtesy of Corey Rozenboom

Goss's Wilt at the Rinard test plot.

Site Information Iowa North West						2011 Rainfall (inches)					
						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Emmetsburg	silty clay loam	minimum	soybean	140	5/4	4.49	7.72	3.91	1.81	-1.52	-3.34
Lu Verne	silty clay loam	minimum	soybean	160	5/4	5.34	4.72	4.16	2.54	-1.85	-2.65
Paullina	silty clay loam	minimum	soybean	135	5/2	4.73	4.98	2.12	0.96	-2.05	-3.31
Rembrandt	silty clay loam	no-till	soybean	215	5/3	6.64	7.57	2.31	1.87	-2.06	-2.53
Remsen	silty clay loam	minimum	soybean	123	5/2	3.31	3.92	2.75	1.44	-1.97	-3.30
Rinard	silty clay loam	conventional	corn, 2+ yr	210	5/3	3.74	4.45	2.29	2.62	-2.41	-2.13

# F.I.R.S.T. Iowa North West Corn Results



## EARLY SEASON TEST 101 - 106 Day CRM

Top 30 of 54 tested

Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Emmetsburg	Lu Verne	Paulina	Rembrandt	Remsen	Rinard
G2 Genetics	5H-0601^	HX,RR2	P1250,V	106	<b>200.7</b>	18.5	5	1,333.10	1	<b>215.1</b>	200.1	<b>201.4</b>	202.1	191.6	<b>193.8</b>
G2 Genetics	5H-905^	HX,RR2	C250	105	<b>199.3</b>	18.0	3	1,328.30	3	<b>212.5</b>	197.8	<b>198.6</b>	196.2	193.1	<b>197.8</b>
Dekalb	DKC53-78 GC	STX	P250	103	<b>197.3</b>	16.4	5	1,329.20	2	<b>219.9</b>	<b>212.7</b>	<b>203.9</b>	<b>207.9</b>	189.5	150.0
Great Lakes	5339GT3	3000GT	P500,V	103	<b>196.1</b>	18.7	3	1,300.80	4	201.3	197.9	190.4	<b>203.0</b>	<b>210.7</b>	<b>173.5</b>
G2 Genetics	5H-0701^	HX,RR2	C250	106	194.2	18.3	4	1,291.70	6	204.9	191.7	193.4	<b>212.5</b>	187.1	<b>175.7</b>
Stine	9529VT3Pro*	VT3P	C250	106	193.1	18.8	16	1,280.10	7	190.5	<b>209.8</b>	190.1	191.9	<b>196.5</b>	<b>179.7</b>
Viking	50-04N	none	C250	104	192.1	18.4	2	1,276.90	8	202.5	195.5	186.4	194.8	189.6	<b>184.0</b>
Kruger	K-6201VT3	VT3	P500,V	101	190.6	17.9	14	1,271.20	9	206.5	<b>210.2</b>	190.5	200.0	<b>196.8</b>	139.3
Jung	7V570	VT3P	P500	105	190.2	18.3	3	1,265.10	10	207.1	193.7	190.2	<b>207.6</b>	157.6	<b>184.7</b>
Wyffels	W4267	VT3P	P250	105	188.9	17.7	4	1,261.60	11	<b>213.9</b>	196.6	193.1	175.4	<b>199.3</b>	155.2
Renk	RK708VT3P	VT3P	P250	105	188.1	17.3	7	1,259.60	12	205.4	202.0	192.2	192.1	<b>199.1</b>	137.5
AgriGold	A6319VT3Pro	VT3P	P500,V	103	187.3	17.9	4	1,249.20	13	201.7	196.6	187.4	184.6	<b>205.6</b>	147.6
Dyna-Gro	D40SS09	STX	P250	100	186.8	18.1	3	1,244.20	14	206.5	191.7	181.9	182.7	191.9	165.9
Producers	6694VT3Pro	VT3P	P250	106	185.9	17.9	3	1,239.90	16	195.5	204.9	<b>197.6</b>	180.5	177.6	159.2
Titan Pro	80A05GL	3000GT	C250	105	185.9	18.3	3	1,236.50	17	198.3	185.1	180.1	180.1	<b>202.6</b>	169.1
LG Seeds	LG2535STX	STX	P500,V	106	185.3	19.3	3	1,224.20	20	212.2	197.5	188.4	190.3	157.6	165.8
Kruger	K-6102VT3	VT3	P500,V	102	184.7	16.5	4	1,243.50	15	196.8	189.8	<b>198.9</b>	198.3	183.7	140.6
Titan Pro	1018	none	C250	101	184.1	16.9	5	1,236.10	18	190.0	177.8	179.9	<b>203.6</b>	173.3	<b>179.8</b>
Renze	2222-3000GT*	3000GT	C250	104	184.0	18.5	2	1,222.20	21	195.1	184.2	171.7	197.0	<b>195.1</b>	160.7
Viking	D44-06RL	STX	C250	106	183.2	19.0	4	1,212.80	29	200.9	203.8	188.0	183.8	165.4	157.1
Trelay	6VP125	VT3P	P500,V	102	183.1	17.9	6	1,221.20	22	185.1	194.5	191.8	184.4	186.1	156.9
Gold Country	103-09	VT3	P250	103	183.1	18.0	16	1,220.40	23	192.6	199.4	189.6	192.2	<b>194.0</b>	130.8
Trelay	6ST620	STX	P500,V	106	182.9	18.5	3	1,214.90	27	205.0	191.0	170.3	184.7	185.6	160.9
Dyna-Gro	D45VC90	VT2P	P250	105	182.9	19.5	5	1,206.70	30	204.3	184.2	172.3	184.8	181.7	170.3
G2 Genetics	5X-903^	HXT,RR2	P1250,V	103	182.8	18.0	4	1,218.40	24	204.2	178.7	175.4	183.0	177.6	<b>177.6</b>
Wyffels	W4179	3000GT	C250	105	182.2	17.8	4	1,216.00	25	204.2	173.6	165.4	192.3	187.3	170.1
Dairyland	ST-9206SSX	STX	C250	104	182.1	18.9	6	1,206.30	31	186.8	194.5	169.8	188.4	191.4	161.9
Great Lakes	5157G3VT3	VT3	P500,V	101	181.8	17.6	9	1,215.00	26	174.4	185.1	180.2	202.0	<b>193.3</b>	155.9
Dairyland	ST-9303SSX	STX	C250	103	181.6	16.3	9	1,224.30	19	205.6	205.0	174.6	194.3	161.9	148.3
Trelay	6ST576	STX	P500,V	104	181.3	17.2	5	1,214.90	28	<b>219.0</b>	<b>207.2</b>	193.0	197.2	148.4	123.0
Pioneer	P0528 CK	none	C250	105	194.0	18.0	2	1,293.00	5	208.1	207.5	193.4	209.4	183.8	161.5
<b>Test Average =</b>					<b>181.8</b>	<b>17.9</b>	<b>8</b>	<b>1,212.60</b>		<b>196.0</b>	<b>191.9</b>	<b>182.1</b>	<b>188.5</b>	<b>176.9</b>	<b>155.6</b>
LSD (0.10) =					13.7	1.0	7			16.4	15.3	14.5	14.1	16.4	17.2

## FULL SEASON TEST 107 - 110 Day CRM

Top 30 of 48 tested

Channel	209-77VT3	VT3	P500,V	109	<b>204.8</b>	19.6	6	1,350.20	1	<b>228.8</b>	<b>218.0</b>	195.6	198.2	205.8	182.4
Great Lakes	5939G3VT3	VT3	P500,V	109	204.0	19.6	4	1,345.00	2	<b>223.4</b>	202.2	190.6	186.8	<b>228.4</b>	192.5
Channel	209-85VT3P	VT3P	P500,V	109	203.1	19.9	3	1,336.30	3	<b>229.1</b>	<b>214.2</b>	195.3	191.6	193.9	194.6
AgriGold	A6458VT3	VT3	P500,V	110	202.9	20.2	3	1,332.20	4	202.5	194.9	193.9	193.1	<b>228.8</b>	<b>204.0</b>
Producers	6944VT3	VT3	P500,V	108	202.6	20.2	4	1,330.30	5	200.7	200.2	192.4	<b>208.2</b>	<b>224.9</b>	189.0
LG Seeds	LG2555VT3	VT3	P500,V	110	202.2	20.7	14	1,323.10	7	186.4	<b>216.3</b>	189.5	186.7	<b>228.7</b>	<b>205.3</b>
LG Seeds	LG2549VT3	VT3	P500,V	109	201.8	20.1	5	1,325.90	6	196.1	207.1	186.6	188.7	<b>222.0</b>	<b>210.3</b>
Wyffels	W6871	VT3	P250	110	201.0	21.3	17	1,309.80	10	195.1	205.8	186.2	<b>204.7</b>	<b>212.9</b>	<b>201.5</b>
Renk	RK818VT3P	VT3P	P250	108	200.7	20.1	4	1,318.70	8	210.6	196.4	<b>205.8</b>	188.1	<b>221.8</b>	181.2
Stine	9731VT3Pro*	VT3P	C250	110	200.5	20.9	10	1,310.20	9	208.6	197.6	<b>200.4</b>	187.5	<b>214.5</b>	194.2
Fielders Choice	NG6788	VT3	P250	111	199.8	20.6	3	1,308.30	11	218.6	198.6	<b>201.1</b>	<b>210.0</b>	183.9	186.7
Producers	7014VT3	VT3	P500,V	110	198.0	19.8	6	1,303.60	13	202.8	193.3	193.0	180.2	<b>212.6</b>	<b>206.3</b>
AgriGold	A6476VT3Pro	VT3P	P500,V	110	197.6	21.1	2	1,289.40	15	207.6	194.4	176.2	192.3	<b>209.2</b>	<b>205.6</b>
Fielders Choice	NG6723	VT3	P250	110	196.2	19.9	6	1,290.90	14	207.3	200.3	184.0	186.1	201.7	<b>197.5</b>
Gold Country	110-35	VT3	P250	110	195.7	20.6	3	1,281.40	18	<b>221.7</b>	204.8	195.7	186.5	175.4	190.1
G2 Genetics	5X-411^*	HXT,RR2	C250	111	195.3	21.8	3	1,268.30	23	219.4	186.5	<b>199.6</b>	185.9	197.7	182.9
NuTech	5N-1004*	3000GT	C250	110	195.2	19.6	9	1,287.00	17	211.2	195.9	187.1	193.9	<b>207.3</b>	176.0
Channel	210-44VT2P	VT2P	P500,V	110	195.2	21.1	8	1,273.80	21	217.3	187.3	195.3	196.3	186.5	188.2
NuTech	5B-1003*	GT/CB/LL	C250	110	194.9	21.1	5	1,271.80	22	212.4	187.8	<b>198.8</b>	178.2	199.2	193.2
Kruger	K-6408VT3	VT3	P500,V	108	194.6	18.9	11	1,289.10	16	215.4	199.5	191.0	190.6	<b>212.4</b>	158.7
Titan Pro	80A08GL	3000GT	C250	108	194.1	19.8	12	1,278.00	19	193.1	196.5	191.0	187.8	<b>210.9</b>	185.0
Titan Pro	81A10	CB/LL/RW	C250	110	193.6	20.7	4	1,266.80	24	199.8	200.0	194.4	191.7	192.5	183.1
Fielders Choice	NG6731	VT3	P250	107	192.7	19.1	2	1,274.80	20	212.7	204.7	<b>204.1</b>	183.6	<b>215.4</b>	135.5
NK Brand	N61P-3000GT GC	3000GT	C250	107	192.6	20.0	4	1,266.30	25	189.6	196.1	189.3	189.3	<b>207.8</b>	183.4
Trelay	6VP844	VT3P	P500,V	107	191.4	19.3	2	1,264.50	26	211.3	188.2	193.9	195.7	177.9	181.1
Stine	9531VT3Pro*	VT3P	C250	107	191.3	20.1	5	1,256.90	27	194.2	196.9	186.6	165.9	<b>218.3</b>	185.8
Kruger	K4-9710	STX	P500,V	110	191.0	21.2	3	1,245.50	30	219.5	189.8	173.4	191.5	185.2	186.6
Trelay	6VT823	VT3	P500,V	107	190.3	19.4	2	1,256.40	28	209.2	205.7	<b>205.0</b>	184.3	205.2	132.3
Kruger	K-7907	VT3P	P500,V	107	189.0	18.7	2	1,253.70	29	212.7	186.1	188.6	186.7	171.8	188.3
Great Lakes	5770VT3PRO	VT3P	P500,V	107	187.4	18.6	3	1,244.00	31	197.3	195.9	191.5	185.2	192.7	161.6
Pioneer	P0528 CK	none	C250	105	196.8	18.7	2	1,305.50	12	208.9	201.4	192.9	<b>214.4</b>	191.1	171.9
<b>Test Average =</b>					<b>191.5</b>	<b>19.9</b>	<b>6</b>	<b>1,260.00</b>		<b>204.6</b>	<b>195.9</b>	<b>186.4</b>	<b>188.3</b>	<b>194.4</b>	<b>179.6</b>
LSD (0.10) =					13.1	1.2	6			16.6	13.5	10.9	15.1	11.9	16.2



Corey Rozenboom, FIRST Manager



## Corn Field Notes: Iowa North Central

### Corn Stats:

Yield Range: 164.5-207.5 bu. per acre

Yield Average: 189.0 bu. per acre

Top \$ Per Acre: \$1,160.60

**Greene**—This plot, planted May 7, had consistent rains up to pollination, allowing good stand and tall plants. Dry weather, high gray leaf spot incidence and corn aphids provided enough stress to cause kernel abortion from the tip (varied by hybrid maturity). These stressors also favored stalk-rot development, leading to high lodging ratings. Early-season and full-season tests averaged 167.3 bu. per acre and 183.4 bu. per acre, respectively.

**Iowa Falls**—This corn-on-corn site, which was planted May 6, revealed hybrids' weaknesses to gray leaf spot and Northern corn leaf blight; symptoms were severe in some, preventing top-end yields. A midseason visit noted high populations of Western corn rootworm beetles doing some silk feeding. Tip dieback 0.5 to 1.5 inches occurred. Average yields were 180.5 bu. per acre in the early-season test and 183.5 bu. per acre in the full-season test.

**Mason City**—This continuous corn site was planted May 11. High temps through reproductive stages and gray leaf spot caused tip dieback. High numbers of Western corn rootworm beetles noted in late August may have reduced pollination from silk feeding. Corn flea beetles and Stewart's wilt (among susceptible hybrids) were observed. The rough season yielded 162.7 bu. per acre on the early-season and 177.7 bu. per acre on the full-season tests. Lodging scores around 20 percent for the early-season tests were halved on the full-season test (10.1 percent).

**Oelwein**—Well-timed rains allowed hybrids a great start and good finish with good kernel depth. A late-August visit revealed a high incidence of gray leaf spot, moderate eyespot and some silk feeding from Northern and Western corn rootworm. A Sept. 3 storm brought 4.5 inches of rain and big wind, causing the lodging scores seen. Yields aver-

aged 199.7 bu. per acre in the early-season test and 203 bu. per acre in the full-season test.

**Saratoga**—A Sept. 2 storm leveled this site, leaving over 90 percent of plants ankle-high and lodged. Wind-monitoring stations reported sustained winds of 100+ mph for over three minutes. Despite efforts to salvage data, nothing was harvestable. Fields where Mark Christianson, F.I.R.S.T. farmer member, has harvested off the ground with a reel have done well.

**Waterloo**—This no-till site, which was planted on May 7 had good growth and tall corn. Lodging differences between hybrids were noted. High gray leaf spot incidence likely caused yield separation among genetics. Excessive heat during early July caused tip dieback from 0.5 to 1.5 inches but timely rains filled kernels well. Yields averaged 207.9 bu. per acre in the early-season test and 223.9 bu. per acre for the full-season test.

Site Information Iowa North Central						2011 Rainfall (inches)					
						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Greene	silt loam	minimum	soybean	131	5/7	4.40	4.23	4.22	3.41	-0.91	-1.48
Iowa Falls	silt loam	conventional	corn, 2+ yr	180	5/6	4.60	5.15	3.36	2.04	-2.71	-3.47
Mason City	silty clay loam	conventional	corn, 2+ yr	212	5/11	5.18	4.79	5.93	1.41	1.22	-3.26
Oelwein	loam	conventional	corn, 2+ yr	209	5/10	2.71	4.24	8.90	3.29	4.31	-2.00
Saratoga	silty clay loam	minimum	soybean	180	5/11	3.73	2.48	2.94	1.85	-3.24	-4.16
Waterloo	silty clay loam	no-till	soybean	202	5/7	3.83	4.04	5.18	3.30	0.58	-0.91

# F.I.R.S.T. Iowa North Central Corn Results



## EARLY SEASON TEST 101 - 106 Day CRM

Top 30 of 78 tested

Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Greene	Iowa Falls	Mason City	Oelwein	Saratoga	Waterloo
Fielders Choice	NG6731	VT3	P250	107	205.5	19.8	2	1,152.40	1	175.4	205.0	186.5	223.1		237.7
Pioneer	P0210HR GC	HX,RR2	P1250,V	102	200.0	17.9	10	1,136.80	2	171.2	190.1	194.0	214.4		230.2
Viking	D44-06RL	STX	C250	106	199.1	20.0	4	1,115.00	4	172.9	208.6	162.0	228.9		223.2
Steyer	10603	STX	P250	106	199.1	20.0	4	1,115.00	5	178.0	198.7	161.3	221.3		236.0
Fontanelle	5T426	VT3	P250	102	196.8	18.8	16	1,111.50	6	183.1	187.6	183.2	215.2		214.8
AgriGold	A6323GT3	3000GT	P500,V	103	196.1	18.7	8	1,108.40	7	176.7	201.6	168.0	216.7		217.7
G2 Genetics	5H-0601^	HX,RR2	P1250,V	106	195.0	19.1	9	1,099.00	8	173.7	182.1	188.8	199.8		230.8
Kruger	K-6201VT3	VT3	P500,V	101	194.4	18.7	13	1,098.70	9	184.2	181.1	192.8	192.3		221.6
FS Seeds	FS 56TV4	VT3P	C250	106	194.3	19.2	6	1,094.30	11	165.3	199.1	159.0	217.9		230.3
Dekalb	DKC55-09 GC	STX	P250	105	193.7	19.2	3	1,090.90	13	182.8	189.7	179.3	205.8		211.0
G2 Genetics	5X-903^	HXT,RR2	P1250,V	103	193.1	18.6	4	1,092.20	12	181.2	194.7	184.4	205.1		199.9
G2 Genetics	5H-502^*	HX,RR2	C250	102	193.0	18.1	3	1,095.50	10	173.4	193.7	179.1	213.4		205.5
Kruger	K4-9302	STX	P500,V	102	193.0	18.8	4	1,090.10	15	169.8	197.7	174.6	214.2		208.7
Trelay	6S1576	STX	P500,V	104	192.8	18.6	7	1,090.50	14	170.3	211.2	163.9	200.2		218.6
Jung	7S555	STX	P500	102	192.7	18.9	3	1,087.60	16	176.1	191.3	174.3	209.9		212.0
Cornelius	C459SS	STX	C250	105	192.4	20.2	3	1,075.90	21	169.7	176.1	167.6	218.3		230.1
Great Lakes	5339GT3	3000GT	P500,V	103	191.7	19.1	5	1,080.40	19	184.1	188.2	164.8	200.1		221.5
Dekalb	DKC53-78 GC	STX	P250	103	191.2	18.1	6	1,085.30	17	181.6	183.4	188.1	200.5		202.2
G2 Genetics	5H-905^	HX,RR2	C250	105	191.2	18.2	5	1,084.50	18	175.8	193.2	175.3	196.5		215.3
Stine	9529VT3Pro*	VT3P	C250	106	190.8	19.5	5	1,072.30	24	166.7	205.2	163.0	200.5		218.4
Croplan	5338VT3 GC	VT3	C250	103	189.8	18.5	20	1,074.30	22	164.4	198.5	171.7	203.9		210.5
Trelay	6VT154	VT3	P500,V	102	189.8	18.6	19	1,073.50	23	166.5	175.5	185.0	204.9		216.9
Cornelius	C344VT3P	VT3P	C250	103	189.7	18.0	7	1,077.50	20	175.4	168.5	177.1	203.7		224.0
LG Seeds	LG2535STX	STX	P500,V	106	189.6	20.2	2	1,060.20	30	168.6	190.8	156.0	211.4		221.4
Gold Country	101-99	STX	P250	104	189.3	18.9	3	1,068.40	25	173.1	184.8	178.0	202.7		208.1
Gold Country	103-09	VT3	P250	103	188.9	19.2	13	1,063.90	27	183.0	178.0	176.7	185.0		221.9
LG Seeds	LG2508VT3Pro	VT3P	P500,V	104	188.5	18.4	4	1,067.70	26	176.6	179.6	161.4	214.3		210.5
Renze	2222-3000GT*	3000GT	C250	104	187.8	18.8	8	1,060.70	28	164.1	195.4	178.5	195.8		205.1
Wyffels	W4267	VT3P	P250	105	187.4	18.5	5	1,060.70	29	178.9	173.7	175.1	207.4		201.9
Epley	E1418GT3000	3000GT	C250	104	185.3	18.8	9	1,046.60	31	173.9	156.6	179.1	194.5		222.3
Pioneer	P0533XR CK	HXT,RR2	C250	105	198.9	19.3	9	1,119.40	3	182.4	187.5	182.9	232.1		209.4
<b>Test Average =</b>					<b>183.6</b>	<b>18.6</b>	<b>10</b>	<b>1,038.20</b>		<b>167.3</b>	<b>180.5</b>	<b>162.7</b>	<b>199.7</b>		<b>207.9</b>
LSD (0.10) =					12.0	0.8	10			15.7	20.4	15.7	16.1		15.9

Lost to Severe Lodging

## FULL SEASON TEST 107 - 110 Day CRM

Top 30 of 54 tested

Channel	209-77VT3	VT3	P500,V	109	207.5	20.3	9	1,159.50	2	190.8	193.8	193.6	209.7		249.7
Renk	RK795VT3P	VT3P	P250	109	207.4	20.1	2	1,160.60	1	194.0	184.3	194.1	225.6		238.9
FS Seeds	FS 60TV4	VT3P	C250	110	207.4	20.5	7	1,157.30	4	203.4	188.4	212.6	199.6		232.8
Cornelius	C594VT3P	VT3P	P250	109	207.1	20.1	3	1,158.90	3	200.8	203.8	184.5	208.7		237.5
Wyffels	W6871	VT3	P250	110	205.7	21.5	9	1,139.60	6	180.7	207.6	187.6	215.8		236.7
G2 Genetics	5H-1001^	HX,RR2	P1250,V	110	204.8	20.6	20	1,142.00	5	187.2	199.4	191.3	210.3		235.8
LG Seeds	LG2555VT3	VT3	P500,V	110	204.3	21.8	21	1,129.40	8	194.4	198.0	185.5	193.9		249.5
AgriGold	A6458VT3	VT3	P500,V	110	203.2	21.0	5	1,129.80	7	199.7	183.2	186.1	210.1		237.0
LG Seeds	LG2549VT3	VT3	P500,V	109	201.6	21.3	7	1,118.50	12	180.3	189.0	186.7	212.5		239.5
NuTech	5N-1004*	3000GT	C250	110	201.2	20.8	12	1,120.30	11	183.0	207.4	173.7	204.6		237.4
G2 Genetics	5H-0701^	HX,RR2	C250	106	200.7	19.6	7	1,127.10	10	197.3	194.8	186.2	208.6		216.7
Channel	209-85VT3P	VT3P	P500,V	109	200.4	20.7	6	1,116.60	14	197.1	182.4	187.1	198.4		236.8
Fontanelle	6V879	VT3P	P500,V	107	200.3	19.3	2	1,127.30	9	194.5	179.9	188.7	205.3		233.3
AgriGold	A6476VT3Pro	VT3P	P500,V	110	200.3	20.5	6	1,117.70	13	205.5	183.8	183.1	187.0		242.3
Great Lakes	5939G3VT3	VT3	P500,V	109	199.0	20.6	12	1,109.60	17	187.3	192.1	178.4	206.6		230.5
NK Brand	N63R-3000GT GC	3000GT	C250	109	198.9	20.5	10	1,109.90	15	190.5	190.3	186.1	209.7		217.7
Gold Country	110-35	VT3	P250	110	198.1	20.7	5	1,103.80	19	181.5	195.0	175.9	202.4		235.6
Stine	9731VT3Pro*	VT3P	C250	110	198.0	22.0	4	1,093.00	22	182.8	186.2	178.1	218.1		224.8
Titan Pro	80A08GL	3000GT	C250	108	197.9	20.4	20	1,105.10	18	176.9	209.8	173.9	198.7		230.2
NuTech	5B-1003*	GT/CB/LL	C250	110	196.4	21.0	4	1,092.00	23	188.8	170.9	184.3	202.2		235.6
Channel	210-61VT3	VT3	P500,V	110	195.9	21.4	8	1,086.10	28	192.4	175.3	180.9	203.7		227.1
Channel	210-57STX	STX	P500,V	110	195.6	21.1	4	1,086.80	27	193.9	180.6	171.5	200.9		231.0
Titan Pro	81A10	CB/LL/RW	C250	110	195.4	20.7	5	1,088.80	26	174.2	192.2	183.6	188.7		238.4
AgriGold	A6473STX	STX	P500,V	109	195.3	21.0	6	1,085.90	29	173.3	195.7	178.0	206.3		223.4
FS Seeds	FS 58MV4	VT3P	C250	108	195.0	20.3	5	1,089.70	24	176.4	204.2	175.7	199.6		219.0
Steyer	10903	VT3P	P250	109	194.6	20.9	4	1,082.80	31	180.8	191.9	177.8	197.0		225.3
Gold Country	107-17	VT3P	P250	107	194.3	19.2	2	1,094.30	20	179.3	172.3	183.7	205.2		231.0
Kruger	K-7907	VT3P	P500,V	107	194.1	19.2	3	1,093.20	21	189.3	167.9	199.3	202.5		211.5
Wyffels	W5077	VT3P	P250	107	193.9	19.5	3	1,089.70	25	177.5	178.3	174.0	219.2		220.4
Great Lakes	5770VT3PRO	VT3P	P500,V	107	193.6	19.8	2	1,085.70	30	179.6	189.5	179.0	199.1		220.7
Pioneer	P0533XR CK	HXT,RR2	C250	105	197.6	19.6	6	1,109.70	16	175.2	187.1	186.6	225.0		214.2
<b>Test Average =</b>					<b>194.3</b>	<b>20.5</b>	<b>8</b>	<b>1,084.40</b>		<b>183.4</b>	<b>183.5</b>	<b>177.7</b>	<b>203.0</b>		<b>223.9</b>
LSD (0.10) =					10.7	0.8	10			14.7	19.5	15.1	15.1		14.7

Lost to Severe Lodging



Randy Meinsma, FIRST Manager



## Corn Field Notes: Iowa West Central

### Corn Stats:

Yield Range: 145.5-187.7 bu. per acre

Yield Average: 168.4 bu. per acre

Top \$ Per Acre: \$1,188.30

**Dunlap**—In this well-matured plot, most stalks were dry and standing well. Crops received some early-season wind; we saw green snap remnants. Gray leaf spot was noted. Lodging scores reflect stalk lodging, which averaged 14.1 percent on the early-season test and fell to 3.9 percent on full-season hybrids. Hot, dry conditions after pollination set this plot back. May, June and August each received 6 inches of rain; July, only 3.5. Yields averaged 186.6 bu. per acre in the early-season test and 194.1 bu. per acre in the full-season hybrids.

**Glidden**—Hot, dry conditions impacted plants. Ears had tip dieback and kernel blanks. Corn-on-corn fields were hit hard. Weak stalks and winds of 45 mph just before harvest caused lodging. No major pests or disease were seen. Yields were roughly 30 bu. per acre below normal at 172.2 bu. per acre in the early-season test and 177.4 bu. per acre in the full-season test.

**Oakland**—This location had decent rainfall. Midseason winds

caused green snap—especially in the full-season test—resulting in yield variability. Plants were well matured and tall with short- to medium-length, well-pollinated ears. Stalks were strong and stood well. Some hybrids had weak ear shanks; some head shatter and light leaf disease was observed. Yields averaged 179.3 bu. per acre in the early-season test and 181.9 bu. per acre in the full-season test.

**Slater**—Winds hit just before pollination, causing root lodging. Lodging scores were 81 percent for the early-season test. Plants recovered and goose-necked upward. Ears were short with small diameter. Lots of rain fell early; then weather turned hot and rains decreased. Despite lodging, stalks held up well. Minor foliar disease and occasional green snap occurred. Lodging decreased, averaging 10.8 percent in the full-season test.

**Winterset**—This plot endured everything. A wet, cool start led into a hot growing season and little rain from June to August. Ears were

short, having tip dieback with blank strips from tip to base on the side nearest the ground. August winds caused lodging. In September, an early frost hurt plants one last time. Yields averaged just over 134 bu. per acre.

**Yale**—This plot received lots of rain and cool conditions early. Midseason was hot and dry. Most foliage was off. Standability was fair to good. Luckily, this location missed the high winds prevalent in the area. Light gray leaf spot was noticed. Yields were good, considering the weather, averaging 169.5 bu. per acre for the early-season test and 183.8 bu. per acre on the full-season test.



Photo courtesy of Corey Rozenboom

Ear tip dieback was a problem for parts of Iowa.

Site Information Iowa West Central						2011 Rainfall (inches)					
						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Dunlap	silt loam	conventional	soybean	164	4/29	6.01	6.23	3.53	6.47	-1.60	1.98
Glidden	silty clay loam	conventional	corn	213	5/1	3.57	4.42	4.01	1.48	-1.22	-3.02
Oakland	silty clay loam	no-till	soybean	160	4/29	5.89	3.66	1.46	6.40	-2.34	2.79
Slater	loam	no-till	soybean	148	5/5	5.21	5.83	2.62	2.73	-2.82	-2.28
Winterset	silty clay loam	no-till	soybean	123	5/10	6.75	10.22	2.12	2.92	-2.11	-1.06
Yale	silty clay loam	minimum	soybean	180	4/30	4.33	6.82	1.91	2.09	-3.32	-2.41

# F.I.R.S.T. Iowa West Central Corn Results



## EARLY SEASON TEST 105 - 110 Day CRM

Top 30 of 54 tested

Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Dunlap	Glidden	Oakland	Slater	Winterset	Yale
Producers	7014VT3	VT3	P500,V	110	<b>186.7</b>	16.4	26	1,188.30	1	<b>212.6</b>	<b>201.4</b>	<b>207.3</b>	<b>169.4</b>	132.5	<b>196.9</b>
LG Seeds	LG2555VT3	VT3	P500,V	110	<b>180.6</b>	16.8	43	1,147.70	2	<b>213.2</b>	174.7	176.6	<b>182.4</b>	140.5	<b>196.0</b>
Great Lakes	5939G3VT3	VT3	P500,V	109	<b>180.1</b>	16.5	28	1,145.90	3	<b>203.9</b>	186.1	<b>199.9</b>	158.2	139.2	<b>193.1</b>
AgriGold	A6458VT3	VT3	P500,V	110	<b>179.4</b>	16.5	35	1,141.40	4	<b>211.3</b>	186.9	188.6	159.5	129.9	<b>200.0</b>
LG Seeds	LG2549VT3	VT3	P500,V	109	<b>178.5</b>	16.5	29	1,135.70	5	<b>205.5</b>	<b>200.1</b>	<b>200.9</b>	156.0	120.4	188.0
Dyna-Gro	V4993VT3	VT3	P250	109	<b>177.5</b>	15.8	17	1,132.50	6	190.0	177.0	<b>197.4</b>	<b>169.9</b>	148.4	182.1
FS Seeds	FS 60TV4	VT3P	C250	110	<b>175.8</b>	16.2	24	1,119.80	7	<b>205.5</b>	188.6	<b>196.8</b>	146.8	143.8	173.3
Kruger	K-6408VT3	VT3	P500,V	108	<b>175.4</b>	16.3	26	1,116.90	8	<b>204.0</b>	188.2	<b>193.3</b>	153.4	142.7	170.9
Dyna-Gro	57V40	VT3	P250	110	173.7	17.4	34	1,101.30	9	185.2	179.3	<b>195.9</b>	162.4	133.7	185.5
Channel	209-85VT3P	VT3P	P500,V	109	173.0	16.6	30	1,100.30	10	195.5	190.3	174.1	<b>165.3</b>	124.6	<b>188.1</b>
Wyffels	W6871	VT3	P250	110	173.0	16.8	27	1,099.40	11	186.9	184.3	190.7	153.1	148.8	174.1
Renk	RK818VT3P	VT3P	P250	108	171.3	16.8	22	1,088.60	12	194.4	174.8	<b>196.2</b>	152.4	132.1	178.1
Dekalb	DKC59-35 GC	VT3	P250	109	170.5	16.6	17	1,084.40	14	195.9	155.1	185.7	164.9	141.9	179.3
FS Seeds	FS 58MV4	VT3P	C250	108	170.3	16.0	22	1,085.70	13	197.5	164.4	<b>193.8</b>	144.5	<b>153.8</b>	167.8
G2 Genetics	5H-0601^	HX,RR2	P1250,V	106	170.1	16.0	19	1,084.40	15	191.8	173.6	183.5	164.4	140.9	166.6
G2 Genetics	5F-1201^	HXT,RR2	P1250,V	112	170.0	18.6	24	1,072.70	22	194.1	177.3	166.3	159.9	148.6	173.6
LG Seeds	LG2544VT3	VT3	P500,V	108	169.9	15.9	38	1,083.50	16	183.1	168.6	174.3	153.3	140.3	<b>200.0</b>
Garst	85E98-3000GT GC	3000GT	C250	109	169.5	16.8	31	1,077.20	19	<b>200.1</b>	187.7	173.0	150.4	125.5	180.5
Wyffels	W5077	VT3P	P250	107	169.4	15.4	16	1,082.50	17	186.7	174.3	176.6	153.6	151.3	173.7
Channel	210-57STX	STX	P500,V	110	169.3	17.1	19	1,074.60	21	<b>201.2</b>	184.6	171.6	148.0	144.3	166.1
NuTech	5N-1004*	3000GT	C250	110	169.2	16.3	23	1,077.40	18	191.2	160.4	181.5	156.2	146.5	179.5
AgriGold	A6384VT3Pro	VT3P	P500,V	106	168.6	15.5	28	1,076.90	20	184.1	170.6	186.6	143.0	148.7	178.6
Titan Pro	X81A12GL	GT	C250	111	167.9	17.5	31	1,064.10	25	194.7	166.9	181.1	157.6	125.8	181.0
Fielders Choice	NG6723	VT3	P250	110	167.5	16.1	22	1,067.40	24	191.9	166.0	188.5	140.7	141.9	175.7
Channel	210-44VT2P	VT2P	P500,V	110	167.5	17.3	39	1,062.40	26	198.5	180.3	174.8	155.6	120.7	175.1
FS Seeds	FS 56TV4	VT3P	C250	106	167.4	15.3	21	1,070.10	23	188.9	171.9	176.8	161.1	<b>153.4</b>	152.4
Kruger	K4-9710	STX	P500,V	110	167.2	17.3	20	1,060.50	27	192.8	181.5	178.0	<b>173.4</b>	113.2	164.1
LG Seeds	LG2529VT3Pro	VT3P	P500,V	107	165.6	15.6	25	1,057.40	28	187.7	167.9	180.2	151.7	138.4	167.6
Kruger	K4-9205	STX	P500,V	105	165.5	15.6	19	1,056.70	29	195.1	165.5	175.3	152.3	128.9	176.1
Renk	RK741VT3P	VT3P	P250	108	164.4	15.2	19	1,051.30	30	191.8	160.3	178.0	143.1	149.1	163.9
Pioneer	P1292AM1 CK	HXT,RR2	C250	112	164.6	18.3	30	1,039.90	36	176.3	<b>191.3</b>	175.0	157.6	134.9	152.5
<b>Test Average =</b>					<b>165.3</b>	<b>16.3</b>	<b>26</b>	<b>1,052.40</b>		<b>186.6</b>	<b>172.2</b>	<b>179.3</b>	<b>149.3</b>	<b>134.8</b>	<b>169.5</b>
LSD (0.10) =					10.1	0.9	11			13.3	18.5	12.1	15.8	17.5	18.6

## FULL SEASON TEST 111 - 114 Day CRM

Top 30 of 45 tested

AgriGold	A6553VT3	VT3	P500,V	113	<b>187.7</b>	19.0	17	1,182.50	1	<b>220.3</b>	<b>194.3</b>	202.2	164.2	147.6	197.4
Producers	7394VT3	VT3	P500,V	113	<b>186.2</b>	18.3	15	1,176.30	2	209.3	184.3	203.1	<b>180.1</b>	136.9	<b>203.3</b>
AgriGold	A6533VT3	VT3	P500,V	113	<b>185.3</b>	19.2	9	1,166.50	3	212.7	183.2	198.5	171.4	141.3	<b>204.9</b>
Channel	212-17VT3P	VT3P	P500,V	112	182.7	17.1	10	1,159.70	4	<b>219.7</b>	176.5	196.3	164.4	146.7	192.8
Dekalb	DKC62-97 GC	VT3P	P250	112	182.0	17.7	12	1,152.50	5	207.1	185.0	194.3	162.5	<b>155.0</b>	188.3
Dekalb	DKC63-84 GC	VT3	P250	113	181.5	17.1	12	1,152.10	6	201.2	<b>200.6</b>	197.1	163.7	142.2	183.9
Garst	83R38-3000GT GC	3000GT	C250	113	181.3	19.4	11	1,140.40	8	209.9	190.0	194.2	172.0	138.4	183.1
LG Seeds	LG2620VT3	VT3	P500,V	113	181.1	18.2	15	1,144.60	7	213.5	184.5	175.0	169.9	142.2	201.3
Pioneer	P1151HR GC	HX,RR2	C250	111	180.2	17.9	13	1,140.20	9	187.4	<b>193.8</b>	192.3	<b>174.8</b>	140.4	192.2
LG Seeds	LG2602VT3	VT3	P500,V	112	180.1	18.8	25	1,135.50	10	<b>222.2</b>	<b>200.9</b>	187.4	155.7	119.2	195.1
Producers	7224VT3	VT3	P500,V	112	178.7	18.2	28	1,129.40	11	<b>216.2</b>	170.7	202.6	155.9	128.5	198.2
G2 Genetics	5H-712^*	HX,RR2	P1250,V	112	177.5	17.9	16	1,123.10	12	203.3	175.4	191.4	<b>181.1</b>	134.2	179.3
Wyffels	W7997	VT3P	P250	113	177.3	18.0	6	1,121.40	13	203.1	178.4	195.4	155.2	<b>150.9</b>	180.8
Great Lakes	6232G3VT3	VT3	P500,V	112	176.8	18.3	24	1,116.90	15	210.4	164.2	<b>204.8</b>	159.5	126.8	195.3
Great Lakes	6354G3VT3	VT3	P500,V	113	176.8	18.5	16	1,116.10	16	213.2	183.9	177.5	160.3	146.8	178.9
Channel	214-14VT3P	VT3P	P500,V	114	176.5	17.6	1	1,118.10	14	194.0	177.3	203.5	165.4	126.8	191.7
AgriGold	A6573VT3	VT3	P500,V	114	176.4	19.6	18	1,108.70	19	201.4	174.5	187.4	164.7	137.5	192.6
Wyffels	W7147	VT3P	P250	111	175.0	16.8	15	1,112.10	17	193.6	170.8	194.7	163.3	135.1	192.6
Kruger	K-7312	VT3P	P500,V	112	174.4	16.6	15	1,109.20	18	209.3	167.5	197.6	141.8	136.0	194.0
Titan Pro	80A13GLV	3111	C250	113	174.1	17.7	9	1,102.50	20	210.5	154.5	194.6	159.0	141.8	184.1
LG Seeds	LG2636VT3	VT3	P500,V	114	174.0	19.4	13	1,094.50	23	199.7	171.8	187.6	159.0	139.4	186.2
Renk	RK858VT3P	VT3P	P250	112	173.9	17.5	18	1,102.10	21	186.4	172.5	197.2	169.2	142.7	175.1
Renk	RK831VT3P	VT3P	P250	112	173.3	17.8	14	1,097.00	22	182.2	188.9	191.9	152.8	141.9	182.2
Renze	2332HXT/LL/RR2	HXT,RR2	C250	111	171.8	18.8	11	1,083.20	25	196.5	186.4	172.1	157.9	129.8	188.1
Stine	9732VT3Pro*	VT3P	C250	112	171.7	18.8	11	1,082.60	26	193.5	170.7	193.2	145.9	137.6	189.1
Kruger	K-7211	VT3P	P500,V	111	171.6	17.3	22	1,088.40	24	<b>215.1</b>	<b>192.8</b>	153.3	163.5	115.4	189.4
Garst	84H71-3000GT GC	3000GT	C250	112	171.3	18.8	20	1,080.00	29	188.6	165.9	185.1	159.6	143.1	185.6
G2 Genetics	5H-013^*	HX,RR2	P1250,V	113	170.9	17.9	21	1,081.40	27	204.8	188.6	159.5	161.6	126.5	184.4
FS Seeds	FS 62MV4	VT3P	C250	112	170.6	17.5	14	1,081.20	28	169.9	182.8	186.1	150.1	147.2	187.4
Channel	211-99VT3P	VT3P	P500,V	111	169.6	16.9	9	1,077.40	30	199.4	181.4	<b>213.0</b>	134.1	134.7	154.7
Pioneer	P1292AM1 CK	HXT,RR2	C250	112	161.0	18.7	16	1,015.50	39	183.7	175.8	164.3	141.4	130.7	170.3
<b>Test Average =</b>					<b>171.5</b>	<b>18.0</b>	<b>15</b>	<b>1,084.90</b>		<b>194.1</b>	<b>177.4</b>	<b>181.9</b>	<b>157.9</b>	<b>134.1</b>	<b>183.8</b>
LSD (0.10) =					12.6	1.0	12			19.6	12.7	22.1	16.5	14.9	18.2

# PLANT IT AND THE PROTECTION GROWS

Poncho®/VOTiVO® seed treatment combines the most trusted seed-applied insecticide in corn with the most revolutionary, complete nematode protection on the seed. The result is a powerful new seed treatment for your corn and soybean seed that protects early-season seedlings and roots from numerous insect and nematode pests.

Poncho/VOTiVO employs a new biological mode of action with a unique bacteria strain that lives and grows with young roots, creating a living barrier that prevents important nematode species from reaching the roots. Poncho/VOTiVO also provides control of many critical early-season insect pests. This dual protection results in improved plant vigor, which in turn results in a more uniform crop and consistently higher yields.

Poncho/VOTiVO brings immediate, consistent protection through the critical phases of vigorous plant growth. From seed germination to plant establishment, Poncho/VOTiVO secures a foundation for the best yields.

## PONCHO/VOTiVO ADVANTAGES:

### CORN

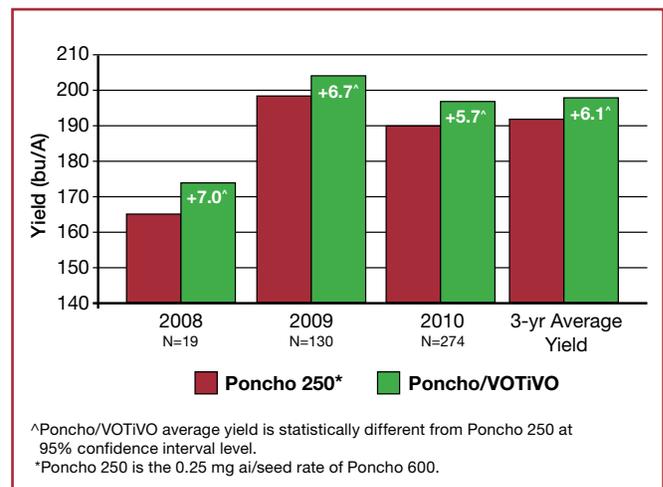
- Controls black cutworms, wireworms, and other important early-season insects common in corn.
- New mode of action protects against nematode damage from a wide range of species.
- Valuable seed is protected from the moment it is planted.
- Maximizes early-season plant stands, uniformity, and vigor for higher yields.

### SOYBEANS

- Controls early-season aphids, overwintering bean leaf beetles, and other important early-season insects common in soybeans.
- New mode of action protects against nematode damage from soybean cyst nematode (SCN) and other significant types of nematodes.
- Complements existing SCN-resistant soybean varieties for even greater protection.
- Promotes higher yields through a healthier root system and a more vigorous and uniform crop.

## CORN TRIAL DATA

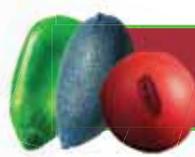
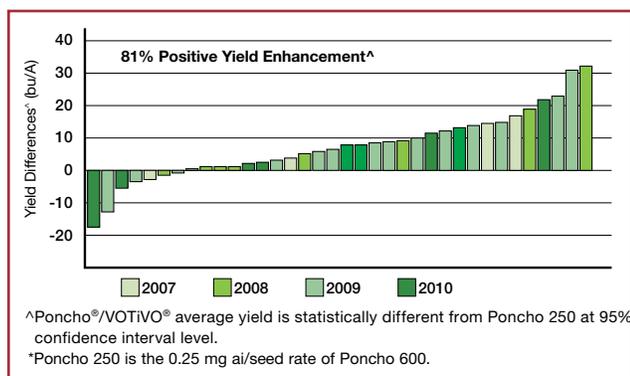
**Poncho®/VOTiVO® Corn Demo Yield Comparisons**  
423 Trials, 2008–10, U.S.





### Corn – Yield Advantage Over Poncho 250\*

2007–10 University Trials (36) with High Nematode Infestations



AVAILABLE FOR CORN, COTTON,  
AND SOYBEANS.

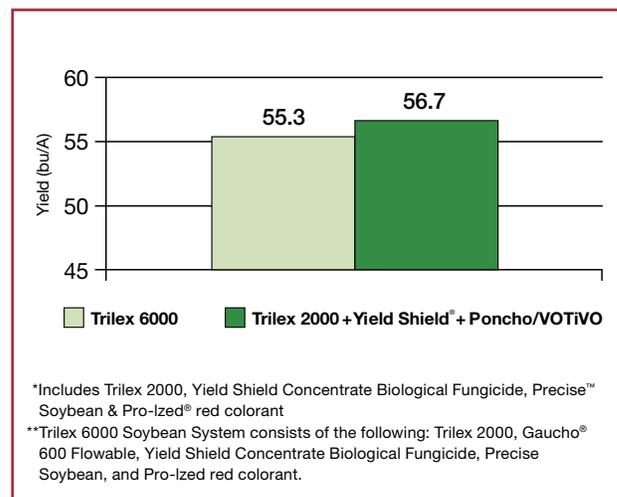
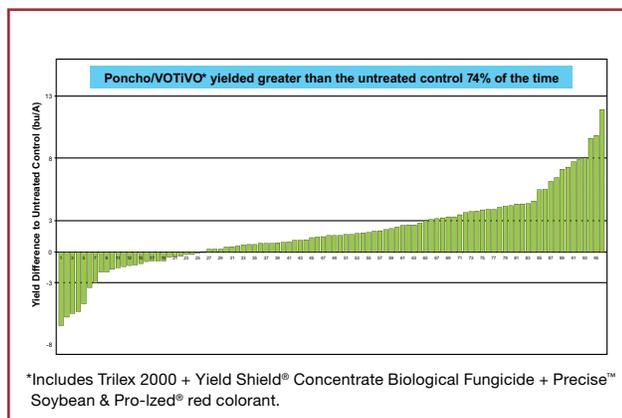
### Soybean – Poncho<sup>®</sup>/VOTiVO<sup>®</sup>\* Benefit Over Trilex<sup>®</sup> 6000\*\* Soybean System

2010 Yield Summary Locations: AR(3), IA(10), IL(8), IN(2) KY, LA, MN, MO(4), NC, NE(2)

## SOYBEAN TRIAL DATA

### 2010 Yield Field Trials

Benefit over Untreated Seed



For more information, visit [PonchoVOTiVO.us](http://PonchoVOTiVO.us).

**IMPORTANT:** This information 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.





Randy Meinsma, FIRST Manager



## Corn Field Notes: Iowa East Central

### Corn Stats:

Yield Range: 166.8-224 bu. per acre

Yield Average: 195.5 bu. per acre

Top \$ Per Acre: \$1,398.90

**Central City**—A major windstorm lodged this plot at the roots just after pollination. Some green snap could also be seen throughout the test. Lodging scores reflect both stalk issues. Yield variability was impacted by stalk-quality issues. Stalks were starting to get weak fast. Ear shanks were also very weak. Ears had very good pollination and large kernels.

**Keystone**—This plot, planted on May 20, the latest of this region, looked good until high winds this summer put the hurt on it. Green snap reduced populations by 50 percent in some hybrids. Root lodging was very bad with rows offset by 30 inches or more. Harvest was attempted but abandoned due to ear loss (from weak ear shanks), stalk breakage on contact with the combine head and difficulties staying on harvest rows.

**Muscatine**—This location, which was planted May 7, had ample rainfall for seedling establishment. Weather was hot and dry in July and August which affected the top

end yield after pollination. Gray leaf spot was seen throughout the plot. Plants began to lodge due to weak stalks and recent windy days. Ears easily detached due to weak ear shanks. We averaged 189.1 bu. per acre in the early-season test and 200.4 bu. per acre in the full-season test.

**Oskaloosa**—This was a very nice-looking plot. Planted on May 9, this location received over 9 inches of rain in June. Things turned hot and dry with less than 3 total inches of rain in July and August. Some gray leaf spot was noticed in the test; some Goss's wilt was also reported in the area. Plants were tall; stalks still held up well with some lodging. Large kernel depth and strong cobs made for easy shelling.

**Victor**—This was a good-looking plot. We received some strong winds, causing some green snap on a few hybrids. Pollination was very good with ears filled to the tips with large, deep kernels. Some gray leaf spot was observed. Plants were tall with healthy stalks. Rainfall was

about 10 inches in May and June followed by only about 4 inches in July and August.

**Washington**—This plot, planted on May 8, was dry early, wet in mid-July, then very dry late in the season. Ears were well pollinated and filled to the tip. Root lodging was observed with a few products. Stalks were strong but ear shanks were weak. Gray leaf spot, Goss's wilt and Northern corn leaf blight were all reported in the area. Wind damage was seen in the area, but this test plot was not affected.



Photo courtesy of Randy Meinsma

Randy Meinsma combines the Washington, Iowa soybean plot. Meinsma needed to switch between harvesting corn and soybeans in this region frequently as the crops matured.

Site Information Iowa East Central						2011 Rainfall (inches)					
						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Central City	loam	no-till	soybean	190	5/7	3.34	4.70	4.03	2.39	-0.69	-2.95
Keystone	silty clay	minimum	soybean	176	5/20	5.23	5.06	2.69	1.71	-1.42	-2.38
Muscatine	silt loam	conventional	corn	220	5/7	4.90	9.30	2.15	1.75	-2.05	-2.39
Oskaloosa	silty clay loam	minimum	soybean	160	5/9	3.19	4.45	2.09	1.22	-2.44	-3.88
Victor	silt loam	minimum	soybean	171	5/10	5.12	5.13	2.76	1.20	-1.71	-3.18
Washington	silty clay loam	no-till	soybean	167	5/8	5.52	8.61	1.64	0.85	-3.67	-4.27

# F.I.R.S.T. Iowa East Central Corn Results



## EARLY SEASON TEST 105 - 110 Day CRM

Top 30 of 63 tested

Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Central City	Keystone	Muscatine	Oskaloosa	Victor	Washington
AgriGold	A6458VT3	VT3	P500,V	110	<b>218.9</b>	19.8	7	1,374.70	1	210.3		<b>210.0</b>	<b>216.4</b>	<b>230.4</b>	<b>227.6</b>
LG Seeds	LG2549VT3	VT3	P500,V	109	<b>215.2</b>	19.7	8	1,352.00	2	199.2		<b>216.2</b>	<b>221.3</b>	204.5	<b>234.9</b>
Great Lakes	5939G3VT3	VT3	P500,V	109	<b>214.9</b>	19.6	7	1,350.60	3	201.5		<b>206.0</b>	<b>220.9</b>	<b>217.1</b>	<b>229.0</b>
Dyna-Gro	57V40	VT3	P250	110	<b>211.9</b>	20.8	12	1,325.40	5	<b>217.2</b>		<b>213.4</b>	202.7	208.3	<b>217.7</b>
FS Seeds	FS 60TV4	VT3P	C250	110	<b>210.6</b>	18.5	17	1,329.40	4	189.2		<b>210.6</b>	<b>210.5</b>	<b>231.5</b>	211.3
Wyffels	W6871	VT3	P250	110	<b>210.2</b>	20.2	16	1,318.00	7	191.9		198.0	<b>216.5</b>	211.0	<b>233.8</b>
Cornelius	C594VT3P	VT3P	P250	109	<b>209.2</b>	18.8	13	1,319.00	6	186.7		201.5	<b>212.6</b>	<b>218.2</b>	<b>227.0</b>
AgriGold	A6476VT3Pro	VT3P	P500,V	110	<b>208.3</b>	19.4	19	1,310.20	8	197.3		195.1	<b>215.3</b>	<b>219.8</b>	214.0
LG Seeds	LG2555VT3	VT3	P500,V	110	<b>207.1</b>	19.8	29	1,300.60	9	<b>220.3</b>		<b>204.4</b>	209.8	181.2	<b>219.9</b>
Channel	210-57STX	STX	P500,V	110	<b>205.6</b>	19.8	11	1,291.20	10	188.8		200.5	206.0	212.6	<b>220.0</b>
Lewis	1009SS	STX	P500,V	109	204.1	20.0	11	1,280.70	11	195.6		<b>209.8</b>	190.3	209.3	215.7
Fontanelle	7A631	STX	P250	110	203.3	20.3	16	1,274.20	12	195.5		<b>204.7</b>	194.5	200.9	<b>221.1</b>
Pfister	2570SS	STX	C250,AV	110	201.7	19.7	13	1,267.20	14	198.4	Lost to Severe Lodging	196.5	208.6	199.8	205.3
Stine	9532VT3Pro*	VT3P	C250	106	201.5	18.7	12	1,271.00	13	191.8		203.9	196.2	202.0	213.6
Stone	5913VT3	VT3	P500,V	109	200.8	18.9	14	1,265.50	15	164.5		189.6	<b>213.3</b>	<b>223.7</b>	212.8
Dairyland	ST-9210SSX	STX	C250	110	200.7	19.7	11	1,260.90	16	194.2		189.6	205.0	205.9	208.9
Dyna-Gro	V4993VT3	VT3	P250	109	199.2	17.8	10	1,260.90	17	192.7		177.1	201.4	212.6	212.0
FS Seeds	FS 58MV4	VT3P	C250	108	199.1	18.8	6	1,255.30	18	198.6		202.2	190.4	206.2	198.3
Fontanelle	7V657	VT3P	P250	110	197.6	18.4	20	1,247.80	19	185.9		<b>206.3</b>	194.6	182.9	<b>218.1</b>
Channel	209-85VT3P	VT3P	P500,V	109	197.5	18.8	19	1,245.20	20	173.3		<b>205.8</b>	200.6	194.2	213.7
G2 Genetics	5X-909^*	HXT,RR2	C250	109	196.5	19.9	13	1,233.50	25	176.7		186.0	203.5	214.3	201.9
Renk	RK818VT3P	VT3P	P250	108	196.4	19.4	11	1,235.40	23	184.1		194.3	194.8	211.3	197.6
LG Seeds	LG2529VT3Pro	VT3P	P500,V	107	196.2	17.7	8	1,242.40	21	202.8		185.6	196.9	200.0	195.5
Stine	9731VT3Pro*	VT3P	C250	110	196.1	21.1	12	1,225.10	30	202.0		198.0	205.4	193.5	181.7
AgriGold	A6384VT3Pro	VT3P	P500,V	106	196.0	17.6	11	1,241.70	22	201.7		184.7	183.0	202.1	208.3
G2 Genetics	5H-0701^	HX,RR2	C250	106	195.3	18.0	3	1,235.30	24	192.7		182.0	202.7	202.9	196.1
Cornelius	C582VT3P	VT3P	C250	109	195.2	19.1	12	1,229.30	27	199.0		190.0	203.1	196.7	187.2
Kruger	K-6408VT3	VT3	P500,V	108	194.9	18.3	13	1,231.30	26	174.8		195.1	192.7	210.5	201.6
Garst	85E98-3000GT GC	3000GT	C250	109	194.8	18.8	18	1,228.20	28	181.0		181.0	196.5	196.8	<b>218.6</b>
Wyffels	W5077	VT3P	P250	107	194.1	18.2	5	1,226.70	29	195.9		181.1	187.6	196.5	209.6
Pioneer	P1292AM1 CK	HXT,RR2	C250	112	189.1	20.7	15	1,183.30	50	198.0		172.9	192.4	196.9	185.1
<b>Test Average =</b>					<b>194.3</b>	<b>18.9</b>	<b>13</b>	<b>1,224.30</b>		<b>183.4</b>			<b>189.1</b>	<b>195.4</b>	<b>200.3</b>
LSD (0.10) =					11.3	0.9	10			27.0		14.7	14.7	14.6	14.3

## FULL SEASON TEST 111 - 114 Day CRM

Top 30 of 63 tested

LG Seeds	LG2602VT3	VT3	P500,V	112	<b>224.0</b>	21.2	23	1,398.90	1	<b>214.2</b>		211.4	<b>233.8</b>	219.0	<b>241.5</b>
Great Lakes	6232G3VT3	VT3	P500,V	112	<b>216.3</b>	21.2	11	1,350.80	2	202.1		215.2	205.3	222.3	<b>236.6</b>
Great Lakes	6354G3VT3	VT3	P500,V	113	212.3	21.1	12	1,326.30	3	196.8		<b>225.9</b>	207.7	191.7	<b>239.2</b>
AgriGold	A6573VT3	VT3	P500,V	114	212.2	22.0	21	1,320.90	4	188.7		206.1	<b>218.3</b>	<b>225.7</b>	222.0
Stine	9732VT3Pro*	VT3P	C250	112	210.9	21.9	10	1,313.40	5	<b>206.6</b>		<b>217.9</b>	207.7	210.1	212.0
LG Seeds	LG2636VT3	VT3	P500,V	114	210.5	22.6	15	1,307.20	7	191.8		215.1	207.4	210.3	<b>227.9</b>
Channel	214-14VT3P	VT3P	P500,V	114	208.1	19.9	13	1,306.30	8	176.5		207.2	207.9	<b>226.1</b>	223.0
Cornelius	C623VT3P	VT3P	P250	110	207.6	18.9	16	1,308.40	6	175.4		201.2	205.8	<b>229.7</b>	226.1
LG Seeds	LG2620VT3	VT3	P500,V	113	207.0	21.2	22	1,292.70	9	186.8		202.5	<b>230.1</b>	189.4	226.4
FS Seeds	FS 64JV3	VT3	C250	114	205.7	21.9	14	1,281.00	12	190.7		204.4	208.8	215.6	208.8
Cornelius	C646VT3P	VT3P	P250	112	205.1	21.0	20	1,281.90	11	<b>205.3</b>		206.2	196.6	199.2	218.0
Pioneer	P1498HR GC	HX,RR2	P1250,V	114	205.0	21.9	16	1,276.60	14	174.1		208.2	<b>221.9</b>	206.3	214.6
Renk	RK880SSTX	STX	P250	112	204.7	20.3	18	1,283.00	10	199.7		197.1	192.7	212.3	221.8
Cornelius	C728VT3P	VT3P	P250	113	204.7	20.8	17	1,280.40	13	185.8		191.0	209.9	219.3	217.3
Channel	212-75VT3P	VT3P	P500,V	112	204.1	20.9	15	1,276.10	15	167.2		210.7	204.3	215.1	223.4
AgriGold	A6533VT3	VT3	P500,V	113	203.1	21.6	19	1,266.30	16	179.1		213.6	213.9	187.8	<b>220.9</b>
Fielders Choice	NG6818	VT3	P250	114	202.2	20.6	13	1,265.80	17	168.7		<b>217.0</b>	192.3	213.0	220.0
Wyffels	W7147	VT3P	P250	111	202.2	20.8	23	1,264.80	18	188.1		191.8	206.6	207.7	217.0
Renk	RK858VT3P	VT3P	P250	112	201.8	20.5	17	1,263.80	19	152.4		<b>220.9</b>	207.0	188.3	<b>240.2</b>
Wyffels	W7477	VT3P	P250	112	201.7	21.0	14	1,260.60	23	151.3		204.6	<b>224.6</b>	215.4	212.6
Renze	2370HXT/LL/RR2*	HXT,RR2	C250	113	201.6	21.8	9	1,256.00	26	194.5		204.8	199.7	205.9	202.9
NuTech	5V-514*	3111	C250	114	201.3	21.9	9	1,253.60	27	186.4		204.4	192.4	218.0	205.1
AgriGold	A6553VT3	VT3	P500,V	113	201.1	21.1	29	1,256.40	25	177.9		201.9	202.8	209.5	213.5
Channel	211-99VT3P	VT3P	P500,V	111	200.9	19.8	18	1,261.70	21	188.6		202.3	205.6	195.8	212.1
Kruger	K-7211	VT3P	P500,V	111	200.5	19.2	29	1,262.10	20	190.8		199.1	205.0	217.1	190.5
Channel	212-17VT3P	VT3P	P500,V	112	200.3	19.2	17	1,260.90	22	164.0		210.6	201.0	214.4	211.3
Kruger	K-7312	VT3P	P500,V	112	200.3	19.6	9	1,258.90	24	157.1		213.8	199.3	215.0	216.2
Garst	83R38-3000GT GC	3000GT	C250	113	200.2	22.5	13	1,243.70	30	168.2		192.8	202.7	208.2	<b>229.2</b>
Dairyland	ST-9111SSX	STX	C250	111	199.8	22.0	14	1,243.80	29	186.8		<b>218.3</b>	200.6	181.6	211.8
Lewis	1211VT3P	VT3P	P500,V	111	198.8	19.9	13	1,248.00	28	152.5		198.2	204.0	217.2	222.1
Pioneer	P1292AM1 CK	HXT,RR2	C250	112	189.8	20.7	17	1,187.70	49	194.2		172.1	196.3	192.0	194.6
<b>Test Average =</b>					<b>196.7</b>	<b>21.0</b>	<b>16</b>	<b>1,229.30</b>		<b>169.6</b>		<b>200.4</b>	<b>203.6</b>	<b>198.1</b>	<b>211.9</b>
LSD (0.10) =					18.7	1.2	11			33.4		16.1	13.6	27.2	14.6



Randy Meinsma, FIRST Manager



## Corn Field Notes: Missouri North West

### Corn Stats:

Yield Range: 137.2-173.5 bu. per acre

Yield Average: 157.2 bu. per acre

Top \$ Per Acre: \$1,090.00

**Farragut**—This plot was planted the earliest in the region, on April 28. But it was hit by strong winds and hail in August. All products were severely lodged within the row, making a difficult harvest slightly easier. Upright stalks were getting weak. Ear rot was observed on downed plants. No major pests or disease were seen. Neighboring fields had very low yields from weather damage. Yields averaged 181.3 bu. per acre from the early-season test and 176.8 bu. per acre from the full-season test.

**Lamoni**—This location, which was planted on May 3, looked good at harvest. It had a cool, wet start; then, from June to August, rainfall was below average. Yields were outstanding considering the weather. Plants were standing well and remained intact at harvest. No major disease was present. Yields averaged 173.4 bu. per acre in the early-season test and 168.3 bu. per acre in the full-season test.

**Lathrop**—A very cool, wet start to the season turned hot and dry in June, continuing through July. This stress caused poor seed set on ear tips. Wind damage was seen in the area but missed this plot. Baythroid was applied to control black cutworm. Plants looked very healthy, but gray leaf spot was noticed. Occasional root lodging was observed. This site yielded an average of 148.8 bu. per acre from the early-season test and 156.8 bu. per acre from the full-season test.

**Maryville**—This plot location had 100-mph winds and large hail damage on Aug. 18, causing significant damage. Leaves were shredded and lodging (stalk and root) was prevalent. No pest problems were noted. Ears were well pollinated with kernels to the tip. Rainfall was normal in July and above normal in August. Average yields were 159.9 bu. per acre and 170.8 bu. per acre from the early-season and full-

season tests, respectively.

**Mt. Ayr**—This plot looked good from the road but the combine told a different story. Hot, dry weather during pollination and grain fill effected yields. Plants were tall with very short ears, showing tip dieback and small kernels. Neither disease nor pest problems were observed. Average yields were 136.1 bu. per acre from the early-season test and 141.3 bu. per acre from the full-season test.

**Trenton**—Due to wet weather, this plot was planted on May 4. The early-season wet and cool weather shifted to hot and very dry weather from the middle to late parts of the growing season. These stressful conditions impacted this site in a big way. Tall plants had short, small-diameter ears with very small seeds, and stalks began showing signs of weakness. No major pest problems or disease were seen. Yields in neighboring fields were less than in the plot.

Site Information Missouri North West						2011 Rainfall (inches)					
						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Farragut	silt loam	no-till	soybean	150	4/28	5.53	4.57	2.58	3.69	-1.55	-0.16
Lamoni	silty clay loam	no-till	soybean	151	5/3	5.65	7.79	3.71	5.15	-1.25	0.90
Lathrop	silt loam	no-till	soybean	168	5/3	5.24	5.79	5.38	6.08	0.23	2.33
Maryville	silty clay loam	minimum	soybean	150	5/2	5.19	7.38	2.13	5.99	-3.50	1.39
Mt. Ayr	silty clay loam	minimum	soybean	140	5/2	5.96	8.11	3.21	5.68	-2.12	0.71
Trenton	silt loam	minimum	soybean	159	5/4	7.37	4.37	3.46	6.89	-1.87	1.92

# F.I.R.S.T. Missouri North West Corn Results



EARLY SEASON TEST 107 - 112 Day CRM

Top 30 of 42 tested

Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Farragut	Lamoni	Lathrop	Maryville	Mt. Ayr	Trenton
Dekalb Channel	DKC62-97 GC	VT3P	P250	112	165.5	17.2	16	1,050.10	1	200.1	175.8	150.9	162.3	157.7	146.2
Dekalb Channel	212-17VT3P	VT3P	P500,V	112	164.9	17.2	20	1,046.30	2	196.3	173.6	157.5	184.0	159.9	118.0
LG Seeds	LG2555VT3	VT3	P500,V	110	164.5	17.9	30	1,040.90	3	195.6	177.4	146.4	186.0	149.8	131.5
Channel	212-75VT3P	VT3P	P500,V	112	163.8	18.3	17	1,034.80	4	175.5	184.3	168.7	165.8	133.5	154.8
Kruger	K-7611	VT3P	P500,V	111	162.9	17.4	18	1,032.80	5	195.7	173.3	167.6	154.1	138.2	148.2
Fielders Choice	NG6789	VT3	P250	113	162.2	18.3	31	1,024.70	6	180.7	182.9	149.5	162.7	156.1	141.4
Taylor	8820	VT2P	P250	112	161.4	17.9	19	1,021.30	7	200.2	178.9	168.5	157.0	130.0	134.0
Stine	9732VT3Pro*	VT3P	C250	112	161.0	19.3	21	1,013.10	9	160.0	182.9	156.9	176.5	124.8	164.6
Lewis	1209VT2P	VT2P	P500,V	109	160.1	16.6	18	1,018.20	8	205.2	167.2	152.3	158.1	140.8	136.8
LG Seeds	LG2602VT3	VT3	P500,V	112	159.6	19.2	25	1,004.70	11	170.3	175.6	150.3	184.4	145.5	131.2
Taylor	88A111*	VT2P	P250	111	159.0	17.7	20	1,006.90	10	181.8	167.7	155.2	154.8	148.0	137.5
Stine	9729VT3Pro*	VT3P	C250	110	158.9	18.3	22	1,003.90	13	184.6	172.2	146.2	168.6	129.4	152.6
AgriGold	A6458VT3	VT3	P500,V	110	158.7	17.8	23	1,004.60	12	178.6	178.0	145.0	179.1	149.6	121.9
Kruger	K-7211	VT3P	P500,V	111	157.8	17.0	25	1,002.00	14	183.1	190.7	158.4	153.3	142.5	119.0
Kruger	K4-9710	STX	P500,V	110	156.8	17.2	13	994.90	15	184.6	169.1	133.1	166.9	141.7	145.3
FS Seeds	FS 62MV4	VT3P	C250	112	156.0	17.7	21	987.90	16	172.0	183.8	143.5	155.4	141.9	139.2
G2 Genetics	5F-1201^	HXT,RR2	P1250,V	112	155.5	17.9	20	983.90	19	172.0	172.7	142.0	186.4	149.3	110.7
Channel	209-85VT3P	VT3P	P500,V	109	154.9	16.7	20	984.80	17	195.4	171.1	156.0	155.7	119.9	131.4
Dekalb	DKC59-35 GC	VT3	P250	109	154.9	16.8	15	984.40	18	178.2	172.9	139.5	165.9	143.8	129.1
Fielders Choice	NG6798	VT3P	P250	112	154.8	17.3	21	981.80	20	195.4	173.0	147.5	161.4	129.7	121.7
Dyna-Gro	57V40	VT3	P250	110	154.8	18.1	23	978.70	23	196.0	181.0	156.6	122.7	138.9	133.6
AgriGold	A6476VT3Pro	VT3P	P500,V	110	154.4	17.1	20	980.10	21	172.5	166.3	139.9	173.8	157.9	115.9
G2 Genetics	5X-812^*	HXT,RR2	C250	112	154.3	18.4	24	974.40	24	178.2	177.7	140.7	153.0	136.6	139.8
FS Seeds	FS 60TV4	VT3P	C250	110	153.9	16.4	22	979.60	22	206.1	178.8	169.4	176.5	125.4	66.9
G2 Genetics	5H-013^*	HX,RR2	P1250,V	112	153.5	17.7	29	972.00	26	172.7	170.2	146.8	175.5	133.1	122.4
FS Seeds	FS 61BX1	STX	C250	111	153.4	17.4	18	972.60	25	191.4	172.7	151.0	154.2	138.0	113.0
AgriGold	A6473STX	STX	P500,V	109	153.1	17.3	19	971.00	27	184.3	178.5	150.3	148.3	142.9	114.4
Garst	85E98-3000GT GC	3000GT	C250	109	152.9	17.0	26	970.90	28	183.9	168.1	143.0	140.8	136.4	145.4
Lewis	1110VT2P	VT2P	P500,V	110	150.7	16.3	13	959.60	30	180.5	170.6	135.7	137.2	137.5	142.6
Taylor	88C112*	VT2P	P250	110	150.6	17.4	19	954.80	31	192.8	183.6	150.4	150.5	133.4	92.6
Pioneer	P1292AM1 CK	HXT,RR2	C250	112	152.0	17.7	20	962.50	29	163.5	160.7	144.3	169.4	134.7	139.1
<b>Test Average =</b>					<b>154.3</b>	<b>17.4</b>	<b>21</b>	<b>978.40</b>		<b>181.3</b>	<b>173.4</b>	<b>148.8</b>	<b>159.9</b>	<b>136.1</b>	<b>126.3</b>
LSD (0.10) =					11.6	0.6	9			18.6	10.5	11.8	12.1	17.2	19.5

FULL SEASON TEST 113 - 116 Day CRM

Top 30 of 36 tested

Lewis	1215VT3P	VT3P	P500,V	115	173.5	19.7	20	1,090.00	1	192.8	197.0	168.9	184.9	151.8	145.8
LG Seeds	LG2620VT3	VT3	P500,V	113	172.3	19.5	24	1,083.30	2	186.8	175.6	167.6	183.0	156.1	164.8
AgriGold	A6533VT3	VT3	P500,V	113	171.7	19.7	25	1,078.70	3	176.5	160.2	164.6	202.1	156.3	170.6
Kruger	K-7215	VT3P	P500,V	115	168.6	19.7	10	1,059.20	4	188.9	180.6	174.2	172.6	140.7	154.7
AgriGold	A6573VT3	VT3	P500,V	114	167.2	19.8	24	1,050.00	5	183.7	173.4	153.5	165.1	160.3	167.2
AgriGold	A6553VT3	VT3	P500,V	113	166.5	20.1	25	1,044.40	8	174.6	171.2	172.4	181.2	148.3	151.5
Dekalb Channel	DKC64-69 GC	VT3P	P250	114	166.0	18.4	33	1,048.30	6	173.9	174.4	171.6	172.1	148.6	155.5
Channel	214-14VT3P	VT3P	P500,V	114	165.9	18.4	17	1,047.70	7	207.2	170.3	159.7	171.9	140.5	145.5
Dyna-Gro	D52VP20	VT3P	P250	112	164.8	18.3	22	1,041.10	9	189.8	171.9	176.7	162.7	145.1	142.4
Kruger	K-7312	VT3P	P500,V	112	162.8	17.6	19	1,031.30	10	186.0	160.9	144.2	179.6	145.1	160.9
G2 Genetics	5H-515^*	HX,RR2	C250	115	162.5	19.9	18	1,020.10	12	170.7	165.9	161.1	180.6	137.6	159.1
Pioneer	P1395HR GC	HX,RR2	C250	113	162.4	18.3	18	1,026.00	11	159.1	167.8	159.4	189.3	131.6	167.2
FS Seeds	FS 65BV3	VT3	C250	115	161.7	20.4	25	1,013.10	15	175.5	159.8	149.3	187.5	146.5	151.7
Kruger	K-7514	VT3P	P500,V	114	161.1	17.9	19	1,019.40	13	176.5	155.9	163.4	175.3	149.3	146.1
FS Seeds	FS 64JV3	VT3	C250	114	161.1	18.5	28	1,016.90	14	162.8	160.3	159.3	176.0	155.9	152.2
LG Seeds	LG2636VT3	VT3	P500,V	114	160.6	19.3	20	1,010.60	16	169.6	163.7	154.3	177.2	138.4	160.3
Great Lakes	6530G3VT3 GC	VT3	P500,V	115	160.6	20.1	22	1,007.40	20	176.1	174.8	171.9	187.7	164.7	88.3
Great Lakes	6455G3VT3 GC	VT3	P500,V	114	160.6	20.3	30	1,006.60	21	172.0	170.8	160.0	176.8	138.4	145.7
Garst	83Z99-3000GT GC	3000GT	C250	113	160.4	21.7	36	999.70	23	172.0	186.3	154.1	148.7	149.4	151.8
Kruger	K-7516	VT3P	P500,V	116	160.2	19.0	17	1,009.30	17	191.1	162.6	155.1	170.6	136.6	145.0
FS Seeds	FS 63BV1	VT2P	C250	113	159.5	18.2	20	1,008.00	19	177.1	183.4	165.9	159.2	148.9	122.3
Dekalb	DKC63-84 GC	VT3	P250	113	159.4	17.8	20	1,009.00	18	179.7	176.1	160.8	158.7	124.0	157.3
Dyna-Gro	CX11113*	VT3P	P250	113	158.2	17.8	7	1,001.40	22	208.9	162.6	123.5	159.8	145.4	148.8
Stine	9806VT3Pro*	VT3P	C250	114	158.2	22.0	10	984.80	24	183.9	157.4	162.0	170.4	137.7	137.8
FS Seeds	FS 66S41	GT/CB/LL	C250	116	157.3	22.1	35	978.80	26	161.5	184.9	159.1	163.2	138.3	136.7
Stine	9808VT3Pro*	VT3P	C250	116	156.8	25.0	15	964.30	30	166.2	174.3	143.2	183.8	152.8	120.3
Channel	216-63VT3	VT3	P500,V	116	156.1	19.1	22	983.00	25	183.1	175.8	150.4	161.1	124.2	141.8
Channel	216-96VT3P	VT3P	P500,V	116	154.3	19.0	26	972.10	27	175.9	177.0	171.8	121.5	148.5	131.3
Channel	213-32VT3	VT3	P500,V	113	154.3	19.1	23	971.70	28	169.1	150.6	151.5	168.6	143.5	142.5
G2 Genetics	5H-513^*	HX,RR2	C250	113	153.6	19.8	15	964.60	29	172.1	149.5	144.9	184.4	126.2	144.7
Pioneer	P1292AM1 CK	HXT,RR2	C250	112	150.0	18.3	19	947.60	34	175.3	159.8	142.7	165.0	115.1	142.3
<b>Test Average =</b>					<b>160.0</b>	<b>19.5</b>	<b>22</b>	<b>1,005.60</b>		<b>176.8</b>	<b>168.3</b>	<b>156.8</b>	<b>170.8</b>	<b>141.3</b>	<b>145.8</b>
LSD (0.10) =					12.0	0.8	12			17.9	11.7	13.0	17.2	17.6	17.8



**Corn Stats:**

Yield Range: 145.5-182.4 bu. per acre  
 Yield Average: 165.7 bu. per acre  
 Top \$ Per Acre: \$1,217.70

**Corn Field Notes: Missouri North East**

Jason Beyers, FIRST Manager

**Batavia**—This location started with great emergence; however, the rest of the season was all downhill. Crops received too much rain at times, too little rain at others, and had poor pollination. This plot actually yielded better than some other area farms. Average yields here were 170.9 bu. per acre from the early-season test and 158.7 bu. per acre from the full-season test. F.I.R.S.T. farmer member Shawn Adam said most corn was averaging between 125 and 130 bu. per acre. The rough season also caused extremely weak ear shanks.

**Clarence**—Though this location looked great early, uncontrolled fall panicum substantially impacted results. Yield varied widely from plot to plot. Differences between 0 and 126 bu. per acre were attributed to high weed pressure and low late-season rainfall. (July and August were 3.5 and 2.5 inches below average, respectively.) All data

was lost due to the weed pressure.

**Greentop**—Rainfall majorly impacted results here. The early growing season began well. Terry Sevits, F.I.R.S.T. farmer member, said, “At the end of June, a 5-inch rain came very quickly,” but July and August cumulatively produced under 0.5 inch of rain. Stalk quality was excellent, but ear shanks were weak. Very little disease was present. Yields averaged 146.8 bu. per acre from the early-season test and 149.2 bu. per acre from the full-season test.

**Kahoka**—This plot fared really well for the conditions experienced. The plot was planted on May 10, the latest of the plots in this region due to wet conditions. The early growing season was excessively wet, followed by only 0.4 inch of rain during July and August. Plants maintained good stalk and root quality at harvest. Anthracnose and gray leaf spot was evident. This plot averaged 161.3 bu. per acre from the early-

season hybrids and 156.4 bu. per acre from the full-season hybrids.

**Mt. Pleasant**—Corn plants here were standing very well early in the season. Stalk quality was holding well and there was significant green left in the stalks. Trace amounts of anthracnose and gray leaf spot could be found. The cobs were good, stiff and easy to shell. Rainfall was limited at times. Yields averaged 181.6 bu. per acre and 185.2 bu. per acre from the early-season and full-season tests, respectively.

**Palmyra**—This location, which was planted on May 9, received heavy winds near pollination, causing slight amounts of green snap in some hybrids. Ears were extremely long but did not have proportionate girth (12-14 rows). Plants were very tall as well. Only small traces of disease were present. Overall, this was a nice, uniform test location. Yields averaged 176.1 bu. per acre from the early-season test and 170.2 bu. per acre from the full-season test.

Site Information Missouri North East						2011 Rainfall (inches)					
						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Batavia	silt loam	conventional	corn	185	5/9	4.43	9.60	0.75	1.07	-4.56	-4.05
Clarence	silt loam	minimum	soybean	195	5/9	8.90	9.02	0.64	1.68	-3.72	-2.43
Greentop	silty clay	conventional	soybean	250	5/9	5.30	18.70	2.63	1.09	-2.26	-3.49
Kahoka	silt loam	minimum	soybean	277	5/10	3.66	7.96	2.59	2.89	-2.69	-1.70
Mt. Pleasant	silty clay loam	minimum	soybean	195	5/3	3.52	5.75	3.23	2.67	-2.05	-1.92
Palmyra	silt loam	conventional	soybean	240	5/9	3.52	5.75	3.23	2.67	-2.05	-1.92

# F.I.R.S.T. Missouri North East Corn Results



EARLY SEASON TEST 107 - 112 Day CRM

Top 30 of 36 tested

Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Batavia	Clarence	Greentop	Kahoka	Mt. Pleasant	Palmyra
AgriGold	A6458VT3	VT3	P500,V	110	180.0	23.5	4	1,214.10	1	188.9		156.3	175.3	189.6	<b>189.9</b>
FS Seeds	FS 60TV4	VT3P	C250	110	176.3	22.3	9	1,195.50	2	186.2		151.6	158.6	<b>200.7</b>	184.6
Pfister	2674HXTR	HXT,RR2	C250,AV	111	175.8	24.4	8	1,181.00	3	179.5		157.6	170.4	179.6	<b>192.0</b>
Dyna-Gro	57V40 GC	VT3	P250	110	175.5	24.3	3	1,179.50	4	178.2		162.4	164.6	<b>205.9</b>	166.6
Pfister	2574HXTR	HXT,RR2	C250,AV	110	173.7	24.9	7	1,164.30	6	<b>191.1</b>		132.8	153.3	<b>200.6</b>	<b>190.6</b>
LG Seeds	LG2602VT3	VT3	P500,V	112	173.3	25.5	11	1,158.50	9	185.6		<b>165.7</b>	145.6	185.9	183.5
Kruger	K-7211	VT3P	P500,V	111	172.8	23.3	10	1,166.60	5	180.8		150.5	163.3	194.2	175.2
G2 Genetics	5H-1001^	HX,RR2	P1250,V	110	172.3	23.2	1	1,163.70	7	173.1		<b>168.9</b>	162.2	185.7	171.7
AgriGold	A6473STX	STX	P500,V	109	171.7	23.3	3	1,159.10	8	169.5		157.7	162.8	196.0	172.7
NK Brand	N72Q-3111 GC	3111	C250	112	171.6	25.6	7	1,146.60	14	188.9		117.0	<b>182.5</b>	195.3	174.2
G2 Genetics	5H-013^^	HX,RR2	P1250,V	112	171.5	24.3	5	1,152.70	11	171.9		157.7	174.9	184.7	168.2
FS Seeds	FS 62MV4	VT3P	C250	112	171.5	24.5	6	1,151.60	12	167.1		141.8	<b>189.1</b>	187.5	172.0
Stine	9729VT3Pro*	VT3P	C250	110	171.3	23.1	4	1,157.50	10	162.3		<b>170.3</b>	167.1	163.3	<b>193.4</b>
Channel	212-75VT3P	VT3P	P500,V	112	170.9	23.9	3	1,150.70	13	165.7		159.2	163.6	193.7	172.4
AgriGold	A6476VT3Pro	VT3P	P500,V	110	170.2	24.0	8	1,145.40	16	172.9		141.9	160.7	195.0	180.3
NuTech	5B-1003*	GT/CB/LL	C250	110	169.6	24.5	7	1,138.90	18	173.1		136.4	163.3	190.9	184.3
Kruger	K-7611	VT3P	P500,V	111	169.3	22.7	5	1,146.00	15	171.2		137.3	177.8	184.3	176.0
Stine	9732VT3Pro*	VT3P	C250	112	168.8	24.2	3	1,135.00	19	166.8		132.9	177.2	170.4	<b>196.9</b>
Lewis	1110VT2P	VT2P	P500,V	110	168.7	23.1	5	1,139.90	17	187.5		120.5	173.7	183.8	178.2
G2 Genetics	5X-812^^	HXT,RR2	C250	112	168.3	25.4	6	1,125.60	23	175.0		154.0	172.3	168.8	171.4
Kruger	K4-9710	STX	P500,V	110	167.3	23.8	5	1,126.90	20	154.4		<b>164.7</b>	160.4	180.7	176.5
Stine	9731VT3Pro*	VT3P	C250	110	167.0	24.2	3	1,122.90	24	168.2		<b>163.6</b>	143.7	180.9	178.4
Lewis	1209VT2P	VT2P	P500,V	109	166.9	23.5	4	1,125.70	22	153.6		139.5	165.9	<b>200.3</b>	175.2
NuTech	5N-1004*	3000GT	C250	110	166.3	22.6	6	1,126.20	21	154.6		154.3	164.1	182.2	176.4
Channel	210-44VT2P	VT2P	P500,V	110	164.9	24.2	3	1,108.80	25	<b>194.0</b>		134.2	143.9	189.1	163.3
NK Brand	N68B-3111 GC	3111	C250	111	164.0	24.2	2	1,102.70	26	174.9		136.8	154.2	180.0	174.1
Pfister	2570SS	STX	C250,AV	110	162.5	23.6	3	1,095.60	27	176.0		160.1	135.2	173.5	167.8
FS Seeds	FS 61BX1	STX	C250	111	162.0	23.5	7	1,092.70	28	173.3		139.1	160.2	178.3	159.3
Channel	212-17VT3P	VT3P	P500,V	112	161.3	23.4	5	1,088.50	29	142.2		156.4	168.3	163.9	175.6
LG Seeds	LG2549VT3	VT3	P500,V	109	161.1	23.2	3	1,088.10	30	158.9		140.8	165.0	157.5	183.2
Pioneer	P1184XR CK	HXT,RR2	C250	111	160.4	23.8	5	1,080.50	32	149.3		143.7	165.6	181.4	162.2
<b>Test Average =</b>					<b>167.3</b>	<b>23.8</b>	<b>5</b>	<b>1,127.00</b>		<b>170.9</b>		<b>146.8</b>	<b>161.3</b>	<b>181.6</b>	<b>176.1</b>
LSD (0.10) =					13.3	1.2	ns			19.6		15.7	21.0	16.1	11.0

Lost to Poor Weed Control

## FULL SEASON TEST 113 - 116 Day CRM

Top 30 of 36 tested

Fielders Choice	NG6882	RR2	P250	116	<b>182.4</b>	25.8	3	1,217.70	1	167.5		<b>171.8</b>	167.8	<b>221.5</b>	<b>183.4</b>
Kruger	K-7215	VT3P	P500,V	115	<b>179.3</b>	25.8	2	1,197.00	2	159.9		<b>172.3</b>	<b>185.6</b>	195.8	<b>182.9</b>
LG Seeds	LG2620VT3	VT3	P500,V	113	176.2	25.6	3	1,177.40	3	<b>191.3</b>		131.7	<b>182.7</b>	199.8	175.4
Lewis	1215VT3P	VT3P	P500,V	115	173.2	26.5	2	1,152.60	4	170.5		139.2	<b>189.4</b>	183.5	<b>183.5</b>
Stine	9808VT3Pro*	VT3P	C250	116	172.9	27.7	2	1,144.40	6	173.5		155.5	166.1	182.5	<b>186.8</b>
NK Brand	N74R-3000GT GC	3000GT	C250	113	170.5	26.7	1	1,133.70	9	150.5		<b>183.5</b>	159.3	191.8	167.5
Channel	216-96VT3P	VT3P	P500,V	116	170.3	26.1	3	1,135.40	7	156.5		<b>180.3</b>	138.7	<b>202.4</b>	173.6
Kruger	K-7514	VT3P	P500,V	114	170.1	23.8	2	1,145.80	5	155.1		159.7	169.8	186.9	178.8
LG Seeds	LG2636VT3	VT3	P500,V	114	170.1	26.0	3	1,134.60	8	162.7		152.9	<b>179.7</b>	170.1	<b>184.9</b>
AgriGold	A6553VT3	VT3	P500,V	113	169.3	25.9	3	1,129.70	10	<b>185.8</b>		150.7	158.5	178.3	173.4
AgriGold	A6573VT3	VT3	P500,V	114	167.6	25.8	5	1,118.90	11	160.9		153.9	155.2	189.7	178.3
AgriGold	A6533VT3	VT3	P500,V	113	167.3	25.5	8	1,118.40	12	161.2		146.5	154.2	<b>202.6</b>	171.9
Lewis	1115VT2P	VT2P	P500,V	115	166.1	27.1	2	1,102.40	16	162.4		161.5	155.6	178.2	172.8
Channel	214-14VT3P	VT3P	P500,V	114	165.6	25.0	2	1,109.50	13	157.3		131.7	161.2	195.8	<b>181.8</b>
Channel	216-63VT3	VT3	P500,V	116	165.4	24.9	4	1,108.70	14	160.6		139.3	154.6	<b>201.8</b>	170.6
Fielders Choice	NG6788	VT3	P250	111	165.2	25.1	4	1,106.30	15	166.2		<b>163.9</b>	152.9	175.6	167.6
FS Seeds	FS 64JV3	VT3	C250	114	164.0	25.1	7	1,098.30	17	149.7		147.9	157.9	195.9	168.8
FS Seeds	FS 63BV1	VT2P	C250	113	163.5	25.2	4	1,094.50	18	160.2		147.8	144.2	196.1	169.0
G2 Genetics	5H-513^^	HX,RR2	C250	113	163.2	26.7	3	1,085.10	22	151.0		149.2	156.6	189.1	169.9
Channel	213-32VT3	VT3	P500,V	113	163.1	25.5	3	1,090.30	19	144.7		153.3	171.4	188.0	158.0
NK Brand	N78S-3111 GC	3111	C250	116	163.0	28.1	3	1,076.90	25	140.5		156.1	158.7	183.4	176.2
NuTech	5V-514*	3111	C250	114	162.4	24.9	3	1,088.60	20	164.0		142.5	147.5	197.8	160.4
Pioneer	P1395HR	HX,RR2	C250	113	162.2	24.9	2	1,087.20	21	139.3		161.9	173.2	168.7	167.7
Stine	9806VT3Pro*	VT3P	C250	114	160.8	26.8	2	1,068.70	26	172.4		123.9	164.7	166.5	176.4
Fielders Choice	NG6798	VT3P	P250	112	160.2	24.1	2	1,077.70	23	141.9		153.7	131.5	<b>201.3</b>	172.8
G2 Genetics	5H-515^^	HX,RR2	C250	115	159.4	27.7	3	1,055.10	27	179.4		129.0	124.0	<b>202.1</b>	162.5
G2 Genetics	5X-1301^^	HXT,RR2	P1250,V	113	157.3	26.0	2	1,049.20	28	165.3		140.4	149.1	170.3	161.2
FS Seeds	FS 66S41	GT/CB/LL	C250	116	157.1	27.0	16	1,043.10	29	167.6		146.0	138.0	168.3	165.8
FS Seeds	FS 65BV3	VT3	C250	115	156.8	27.3	5	1,039.70	30	154.4		145.9	149.6	160.9	173.2
G2 Genetics	5H-716^^	HX,RR2	C250	116	155.9	26.6	5	1,037.00	31	152.8		149.7	131.1	187.7	158.4
Pioneer	P1184XR CK	HXT,RR2	C250	111	160.2	24.2	4	1,077.20	24	153.3		140.3	170.8	175.9	160.9
<b>Test Average =</b>					<b>164.0</b>	<b>25.9</b>	<b>4</b>	<b>1,094.30</b>		<b>158.7</b>		<b>149.2</b>	<b>156.4</b>	<b>185.2</b>	<b>170.2</b>
LSD (0.10) =					13.1	1.4	6			24.1		13.5	22.3	16.0	10.0

Lost to Poor Weed Control



Tim Dozier, FIRST Manager



## Corn Field Notes: Nebraska North East

### Corn Stats:

Yield Range: 161.5-208.6 bu. per acre

Yield Average: 190.3 bu. per acre

Top \$ Per Acre: \$1,290.20

**Beemer**—This irrigated site had excellent stand with very little lodging. Gray leaf spot was controlled by application of Headline fungicide. Plots received 80 lbs nitrogen sidedressed per acre which really helped yields. Stalk quality was excellent. Harvest results were consistent. Average yields were 221 bu. per acre from the early-season test and 226 bu. per acre from the full-season hybrids.

**Columbus**—There was excellent emergence and growth at this irrigated, continuous corn site. The site was planted on April 30 a week earlier than all other sites in this region. Two extreme wind events about a week apart in early July caused lodging or green snap (or both) in almost every variety, resulting in yield variability with a greater effect on the full-season hybrids. Fungicide was applied for gray leaf spot. Excessive July heat caused tip dieback in many products. Average yields were 213.2 bu.

per acre from the early-season test and 206.4 bu. per acre from the full-season test.

**Dodge**—Slightly wet soil at planting with lower-than-average temperatures proved to be a real emergence test. Some hybrids had 100 percent emergence; some had poor emergence. High winds in late June at about Stage V7 or V8 caused significant green snap in susceptible products, although there was no lodging. Pollination and yield for this dry-land location was very good.

**Hartington**—The stand at this dry-land location was good with virtually 100 percent emergence. Rainfall was timely and right on the 30-year average through July, dropping slightly below this average in August. Pollination was good and ears had good kernel set. There was very little gray leaf spot and the corn was standing nicely. Average yields here were 164.9 bu. per acre for the early-season hybrids and 173.1 bu. per acre for the full-season hybrids.

**Hooper**—This site had good conditions at planting and excellent emergence. Heavy rain around the one-leaf stage washed out some plants and moved trash around, covering up plants. Late June, July and early August were very hot and dry, hurting pollination. Moderate lodging appeared to be due to stalk rot and high gray leaf spot. Yields averaged 177.9 bu. per acre from the early-season hybrids and 187.7 bu. per acre from the full-season hybrids.

**Laurel**—This irrigated location produced very good yields despite being hailed on twice. There was some difference in yield between early- and full-season varieties, perhaps due to high temps during pollination of the early test. Early-season hybrids had some curled ear tips and tip dieback not seen in the full-season trial. The early-season averaged yields were 189.3 bu. per acre while the full-season test produced an average of 201 bu. per acre.

Site Information Nebraska North East						2011 Rainfall (inches)					
						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Beemer	silty clay loam	no-till	soybean	190	5/3	7.62	4.61	2.38	4.75	-1.09	1.16
Columbus	silt loam	minimum	corn, 2+ yr	310	4/30	6.45	6.78	2.43	4.94	-0.64	1.28
Dodge	silty clay loam	minimum	soybean	145	5/3	7.35	6.25	2.26	4.96	2.10	4.49
Hartington	silty clay loam	no-till	soybean	135	5/6	4.66	5.56	3.89	2.48	-0.28	-1.96
Hooper	silty clay loam	no-till	soybean	140	5/3	4.70	4.28	2.77	3.87	2.61	3.40
Laurel	silt loam	no-till	soybean	150	5/6	5.00	8.97	2.98	4.54	-1.19	0.10

# F.I.R.S.T. Nebraska North East Corn Results



## EARLY SEASON TEST 105 - 110 Day CRM

Top 30 of 30 tested

Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Beemer	Columbus	Dodge	Hartington†	Hooper	Laurel
G2 Genetics	5H-0701^	HX,RR2	C250	106	200.7	15.8	1	1,250.40	1	243.5	210.2	168.8	189.7	189.8	201.9
AgriGold	A6458VT3	VT3	P500,V	110	199.2	16.6	3	1,237.00	2	228.8	238.2	187.2	163.2	182.6	195.4
Heine	824VT3P	VT3P	P250	110	198.5	16.6	2	1,232.70	3	221.0	232.7	197.8	162.6	191.5	185.1
LG Seeds	LG2549VT3	VT3	P500,V	109	196.5	16.6	2	1,220.30	4	232.5	237.8	183.4	171.8	173.1	180.4
Producers	7014VT3	VT3	P500,V	110	195.1	16.4	3	1,212.50	6	230.9	231.0	172.7	166.5	177.9	191.6
AgriGold	A6384VT3Pro	VT3P	P500,V	106	194.8	15.5	2	1,215.10	5	234.1	235.2	179.1	173.7	152.5	194.4
Kruger	K4-9710	STX	P500,V	110	194.4	16.7	1	1,206.70	7	232.5	206.7	163.4	176.9	181.3	205.4
NuTech	5N-1004*	3000GT	C250	110	192.5	16.1	2	1,197.80	8	226.2	216.5	177.9	172.6	181.9	180.1
NuTech	5B-1003*	GT/CB/LL	C250	110	191.6	16.4	1	1,190.80	9	222.1	222.9	163.1	169.0	184.3	188.0
G2 Genetics	5H-0601^	HX,RR2	P1250,V	106	191.0	15.9	1	1,189.50	11	225.1	219.2	162.5	157.9	181.6	199.7
Producers	6694VT3PRO	VT3P	P250	106	190.8	15.5	1	1,190.10	10	220.1	222.5	157.0	179.0	184.9	181.3
Heine	810VT3P	VT3P	P250	108	190.8	16.3	1	1,186.30	12	207.8	215.4	175.9	166.7	188.2	190.9
Heine	817STX	STX	P250	109	190.2	16.4	2	1,182.10	13	222.5	228.9	167.7	162.8	166.2	192.9
Stine	9531VT3Pro	VT3P	C250	107	189.1	16.3	1	1,175.70	14	216.3	206.6	180.5	158.3	184.4	188.7
Kruger	K-6408VT3	VT3	P500,V	108	188.3	15.5	2	1,174.50	15	207.1	210.7	156.9	174.7	188.1	192.1
LG Seeds	LG2544VT3	VT3	P500,V	108	188.3	16.2	3	1,171.20	18	234.0	208.6	169.1	159.4	159.8	199.1
Dekalb	DKC58-33 GC	VT3	P250	108	188.1	15.8	3	1,171.90	17	219.4	208.8	167.1	154.3	188.5	190.6
Fontanelle	7A631	STX	P250	110	187.9	16.7	1	1,166.40	19	217.0	212.8	170.8	156.9	173.7	196.1
Kruger	K4-9205	STX	P500,V	105	187.6	15.1	2	1,172.00	16	219.5	211.4	145.6	164.0	199.4	185.8
Channel	210-61VT3 GC	VT3	P250	110	187.2	16.8	3	1,161.60	20	230.6	192.0	150.2	163.1	186.0	201.1
LG Seeds	LG2529VT3Pro	VT3P	P500,V	107	185.5	15.5	3	1,157.10	21	230.5	214.8	167.0	175.7	149.9	175.2
Kruger	K-7907	VT3P	P500,V	107	185.0	15.2	0	1,155.30	22	211.7	238.4	124.5	162.2	180.0	192.9
Stine	9731VT3Pro	VT3P	C250	110	185.0	16.8	2	1,147.90	23	212.5	222.5	156.2	167.7	173.6	177.6
Channel	208-72VT3 GC	VT3P	P250	108	182.6	17.1	1	1,131.70	25	217.1	198.1	158.7	163.2	178.5	180.1
Stine	9529VT3Pro	VT3P	C250	106	178.5	15.3	1	1,114.30	26	210.5	215.6	162.7	163.6	145.4	173.4
Dekalb	DKC59-88 GC	VT3	P250	109	178.4	15.2	0	1,114.10	27	202.0	207.0	153.8	152.0	176.3	179.5
AgriGold	A6359STX	STX	P500,V	105	174.5	16.3	1	1,085.00	28	218.7	167.0	127.8	151.7	181.6	200.1
G2 Genetics	5X-908^*	HXT,RR2	C250	108	173.6	17.0	0	1,076.30	29	204.7	190.3	129.8	159.8	169.7	187.1
G2 Genetics	5H-1001^	HX,RR2	P1250,V	110	173.0	16.3	1	1,075.60	30	225.5	180.1	117.6	148.1	176.7	189.7
Fontanelle	7V657 CK	VT3P	P250	110	182.9	16.1	2	1,138.10	24	206.0	193.2	165.3	160.7	188.5	183.8
<b>Test Average =</b>					<b>188.1</b>	<b>16.1</b>	<b>2</b>	<b>1,170.00</b>		<b>221.0</b>	<b>213.2</b>	<b>162.0</b>	<b>164.9</b>	<b>177.9</b>	<b>189.3</b>
LSD (0.10) =					11.6	0.5	2			11.4	16.9	16.5	11.4	15.0	14.6

## FULL SEASON TEST 111 - 114 Day CRM

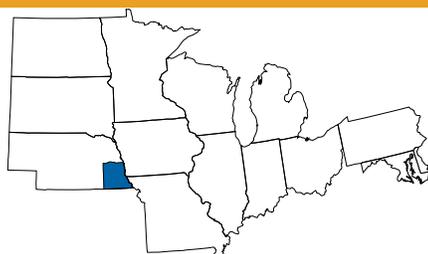
Top 30 of 30 tested

Producers	7394VT3	VT3	P500,V	113	208.6	17.6	2	1,290.20	1	242.0	232.1	179.1	197.8	191.1	209.2
AgriGold	A6553VT3	VT3	P500,V	113	206.8	17.6	5	1,279.10	2	236.3	221.5	194.3	180.5	196.9	211.3
LG Seeds	LG2620VT3	VT3	P500,V	113	206.2	17.5	3	1,275.90	3	238.0	234.4	175.9	186.2	191.9	210.6
G2 Genetics	5X-1301^*	HXT,RR2	P1250,V	113	204.1	17.7	4	1,261.80	4	230.9	229.0	186.8	166.5	203.4	208.2
Kruger	K-7312	VT3P	P500,V	112	202.9	16.4	1	1,261.00	5	240.8	231.5	170.4	165.7	210.8	198.3
Stine	9732VT3Pro*	VT3P	C250	112	202.9	18.1	1	1,252.40	6	217.5	224.5	180.4	189.6	198.9	206.2
AgriGold	A6573VT3	VT3	P500,V	114	199.4	18.1	3	1,230.80	8	241.4	223.9	184.3	154.5	191.3	200.7
Dekalb	DKC63-84 GC	VT3	P250	113	199.1	16.5	2	1,236.90	7	227.6	223.2	164.1	167.0	202.8	209.9
Producers	7224VT3	VT3	P500,V	112	198.3	17.7	4	1,226.00	10	228.0	218.4	180.8	175.1	189.1	198.3
Kruger	K-7211	VT3P	P500,V	111	198.2	16.8	2	1,229.80	9	235.6	196.3	159.1	185.7	197.3	214.9
G2 Genetics	5H-712^*	HX,RR2	P1250,V	112	195.8	17.6	1	1,211.00	11	226.8	219.4	156.2	178.4	189.7	204.4
Kruger	K-7611	VT3P	P500,V	111	194.9	16.8	2	1,209.40	12	231.7	215.7	161.1	172.3	184.6	204.1
Gateway	9812	VT3	C250	112	194.0	17.1	4	1,202.30	14	226.7	209.7	167.4	182.1	186.8	191.1
Channel	214-14VT3P GC	VT3P	P500,V	114	193.9	16.9	1	1,202.70	13	235.9	216.4	126.2	170.0	199.1	215.8
LG Seeds	LG2602VT3	VT3	P500,V	112	192.8	17.2	3	1,194.40	17	221.1	205.4	176.5	181.6	175.1	197.3
Heine	854VT3	VT3	P250	112	192.7	16.8	3	1,195.70	15	223.4	213.9	173.3	173.9	177.8	194.0
Channel	211-99VT3P GC	VT3P	P500,V	111	192.3	16.3	2	1,195.60	16	224.1	207.4	156.4	176.2	187.3	202.4
AgriGold	A6476VT3Pro	VT3P	P500,V	110	191.2	16.5	4	1,187.80	18	213.6	197.6	179.4	167.1	184.4	204.8
Dekalb	DKC61-69 GC	VT3	P250	111	189.8	15.6	3	1,183.40	19	221.8	212.5	154.0	165.2	184.2	201.0
Renze	3331SST*	STX	C250	112	189.6	16.8	1	1,176.50	20	222.3	218.9	162.6	177.0	169.3	187.5
Heine	828VT3P	VT3P	P250	111	188.9	16.7	1	1,172.60	21	221.3	218.2	145.5	165.7	185.8	197.1
Heine	836VT3P	VT3P	P250	112	188.2	16.5	1	1,169.20	22	210.8	218.1	147.8	175.6	182.8	193.8
Stine	9806VT3Pro	VT3P	C250	114	185.6	19.2	3	1,140.50	26	230.5	129.8	186.6	171.4	191.5	203.9
NuTech	5V-514*	3111	C250	114	185.0	17.6	1	1,144.20	24	207.2	200.9	150.7	177.4	184.6	189.1
G2 Genetics	5H-013^*	HX,RR2	P1250,V	113	184.3	17.2	6	1,141.70	25	239.9	172.2	163.3	169.6	157.9	202.9
NuTech	5N-813*	3000GT	C250	113	183.5	18.3	1	1,131.70	27	221.4	204.8	142.5	164.9	180.4	187.0
Renze	2370HXT/LL/RR2*	HXT,RR2	C250	113	178.9	17.5	2	1,106.90	28	216.6	181.4	143.3	161.3	179.3	191.4
G2 Genetics	5X-411^*	HXT,RR2	C250	111	177.0	17.6	1	1,094.70	29	218.2	197.8	127.0	152.7	181.6	184.9
Kruger	K-7514	VT3P	P500,V	114	161.5	17.0	1	1,001.30	30	210.4	113.7	72.6	169.3	191.9	211.1
Fontanelle	7V657 CK	VT3P	P250	110	187.2	16.2	3	1,164.40	23	218.6	203.0	145.7	172.5	183.3	200.1
<b>Test Average =</b>					<b>192.5</b>	<b>17.2</b>	<b>2</b>	<b>1,192.30</b>		<b>226.0</b>	<b>206.4</b>	<b>160.4</b>	<b>173.1</b>	<b>187.7</b>	<b>201.0</b>
LSD (0.10) =					14.1	0.6	3			12.3	20.1	16.3	7.1	15.4	10.5

† = 2 replications



Tim Dozier, FIRST Manager



## Corn Field Notes: Nebraska South East

### Corn Stats:

Yield Range: 134.8-171.4 bu. per acre

Yield Average: 155.9 bu. per acre

Top \$ Per Acre: \$1,196.40

**Beatrice**—Dry weather for three weeks after the early, April 29 planting date resulted in delayed emergence here on the Beatrice test plot. Precipitation was slightly below average for June through August, but temperatures were just about average. Overall, this was a great site with very good growing conditions. Production on this test yielded averages of 183.5 bu. per acre from the early-season test and 170.6 bu. per acre from the full-season test.

**Burr**—This site had excellent emergence from its May 4 planting date and it also had an excellent final stand. As in all southeast Neb. trials, yields were reduced significantly by above-average temperatures in July and early August and by very low rainfall. The above-average nighttime temperatures created a particularly difficult time for the corn plants, as they did not have an adequate break from the daytime heat. Pollination was poor.

The full-season test was rejected due to isolated variable yields.

**Cook**—This trial had excellent emergence and a very good stand; however, rainfall was far below average through early August. Temperatures were above average in July and early August. These conditions had significant impact on pollination and ultimately hurt yields. Neither pests nor disease issues were observed. One replication was lost in the full-season test. Average yields were 143.8 bu. per acre from the early-season hybrids and 127 bu. per acre from the full-season test.

**Du Bois**—A dry spring resulted in delayed emergence; however, there was a good final stand. From late June into early August temperatures averaged 95 degrees for a daily high. Pollination was significantly affected with some hybrids. Rainfall during the period was below average and corn was severely stressed. Strong August winds caused significant lodging with certain hybrids.

**Gretna**—This irrigated site started off with good (but large varietal differences in) emergence and vigor. There was 10 to 15 percent hail damage at Stage V6. There was significant lodging due to 60-mph winds that occurred on June 22. Gray leaf spot was very heavy, requiring a fungicide application. Despite the difficulties, this season's yields were quite nice, averaging 197.7 bu. per acre from the early-season test and 205.6 bu. per acre from the full-season test.

**Seward**—A very hot and dry July and early August hurt pollination, definitely reducing yield. Little disease or insect pressure was observed. Very heavy rain at about V1 moved corn stalks in this no-till field and covered many plots in one replication of the early-season test, resulting in a slightly reduced stand. This rep was eliminated from the results leaving Seward with only two replications in the final results instead of the usual three reps.

Site Information Nebraska South East						2011 Rainfall (inches)					
						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Beatrice	silty clay loam	no-till	soybean	140	4/29	3.63	6.86	3.44	6.04	-2.20	1.29
Burr	silty clay loam	no-till	soybean	135	5/4	4.08	4.92	3.21	5.38	-1.84	0.83
Cook	silty clay loam	no-till	soybean	120	5/4	4.29	4.40	3.47	9.48	-2.23	5.11
Du Bois	silty clay loam	no-till	soybean	140	4/29	4.15	5.21	2.73	8.79	-2.97	4.42
Gretna	silt loam	minimum	soybean	150	4/30	7.03	3.10	3.20	4.73	-0.12	1.31
Seward	silt loam	no-till	soybean	150	4/30	5.32	4.16	2.28	3.96	-1.75	-0.02

# F.I.R.S.T. Nebraska South East Corn Results



EARLY SEASON TEST 107 - 112 Day CRM

Top 30 of 36 tested

Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Beatrice	Burr <sup>†</sup>	Cook <sup>‡</sup>	Du Bois	Gretna	Seward <sup>‡</sup>
Taylor	8820	VT2P	P250	112	171.4	15.8	1	1,196.40	1	193.9	163.5	171.7	115.9	232.2	151.2
LG Seeds	LG2620VT3	VT3	P500,V	112	170.9	16.9	9	1,188.20	4	210.6	160.7	147.2	142.4	197.5	167.2
Taylor	1940	VT3	P250	112	170.6	15.9	1	1,190.40	3	201.0	159.6	156.7	144.1	213.9	148.2
Kruger	K-7211	VT3P	P500,V	111	170.3	14.7	6	1,192.10	2	187.6	158.2	150.6	122.2	214.5	188.5
G2 Genetics	5H-712 <sup>^</sup> *	HX,RR2	P1250,V	112	168.8	15.8	3	1,178.20	5	195.0	148.1	142.1	140.7	205.0	181.8
Taylor	88A111*	VT2P	P250	111	168.1	16.1	2	1,172.10	6	207.4	161.6	163.7	133.0	209.0	133.9
Dekalb	DKC62-97 GC	VT3P	P250	112	167.5	16.3	3	1,167.10	7	184.9	157.0	161.8	114.7	229.8	157.0
G2 Genetics	5H-013 <sup>^</sup> *	HX,RR2	P1250,V	113	166.0	15.6	5	1,159.50	8	196.4	162.8	146.9	150.3	194.1	145.2
Channel	212-45STX	STX	P250	112	165.6	14.7	0	1,159.20	9	196.9	159.8	150.3	121.7	201.2	163.9
LG Seeds	LG2555VT3	VT3	P500,V	110	165.4	16.2	14	1,152.80	10	198.8	153.2	156.1	124.9	182.6	176.7
Stine	9732VT3Pro*	VT3P	C250	112	164.8	17.2	2	1,144.50	13	201.6	149.8	140.6	126.5	217.0	153.5
Producers	7224VT3	VT3	P500,V	112	164.3	17.0	11	1,141.90	14	202.9	164.7	144.7	144.4	177.8	151.3
Kruger	K-7611	VT3P	P500,V	111	164.1	15.4	2	1,147.10	11	175.7	169.5	142.6	115.9	208.6	172.1
AgriGold	A6458VT3	VT3	P500,V	110	164.1	15.8	6	1,145.40	12	192.2	150.4	143.0	150.9	206.1	142.2
Producers	7014VT3	VT3	P500,V	110	162.8	15.8	5	1,136.30	15	179.8	153.5	134.3	140.1	210.9	158.1
Taylor	88C112*	VT2P	P250	110	161.1	15.4	3	1,126.10	16	178.0	158.6	141.7	141.2	205.1	141.8
Garst	84U58-3111 GC	3111	C250	111	160.1	16.3	0	1,115.50	17	178.4	149.7	139.3	130.2	206.6	156.2
Fielders Choice	NG6788	VT3	P250	111	159.4	15.6	0	1,113.40	19	174.6	154.2	145.2	135.4	211.3	135.8
AgriGold	A6476VT3Pro	VT3P	P500,V	110	159.2	15.2	2	1,113.60	18	188.9	144.3	137.1	131.4	203.1	150.1
G2 Genetics	5X-411 <sup>^</sup> *	HXT,RR2	C250	111	158.3	16.0	4	1,104.10	20	171.4	157.3	140.2	132.1	191.8	157.0
Kruger	K4-9710	STX	P500,V	110	156.6	15.2	1	1,095.40	21	196.3	149.2	140.8	116.9	207.1	129.3
Kruger	K-4207	VT2P	P500,V	107	156.1	13.7	6	1,092.70	22	186.1	166.9	157.8	97.0	203.3	125.6
G2 Genetics	5H-1001 <sup>^</sup>	HX,RR2	P1250,V	110	155.3	14.7	1	1,087.10	23	183.6	141.5	133.7	147.3	187.1	138.4
Fontanelle	8V437	VT3	P250	112	154.6	15.7	1	1,079.50	26	157.8	145.3	139.7	135.2	205.0	144.8
AgriGold	A6473STX	STX	P500,V	109	154.5	14.7	2	1,081.50	25	181.6	136.7	141.4	121.3	199.0	146.9
Fielders Choice	NG6798	VT3P	P250	112	154.0	15.2	2	1,077.20	27	177.5	144.6	143.7	115.3	209.3	133.3
Fielders Choice	NG6727	VT2P	P250	109	153.8	14.7	5	1,076.60	28	177.6	151.2	141.2	126.2	184.9	141.9
NuTech	5N-1004*	3000GT	C250	110	152.8	14.6	6	1,069.60	29	161.6	141.6	144.8	121.0	186.4	161.3
Stine	9729VT3Pro	VT3P	C250	110	151.5	16.2	9	1,056.00	30	173.2	148.4	139.2	126.2	168.5	153.5
Channel	210-61VT3	VT3	P250	110	150.9	15.9	4	1,052.90	31	170.9	139.3	141.2	111.2	187.5	155.2
Gateway	815 CK	VT3	P250	112	155.0	15.1	0	1,084.60	24	182.5	153.6	137.9	129.3	207.5	119.1
<b>Test Average =</b>					<b>158.7</b>	<b>15.5</b>	<b>4</b>	<b>1,108.30</b>		<b>183.5</b>	<b>151.9</b>	<b>143.8</b>	<b>126.6</b>	<b>197.7</b>	<b>148.8</b>
LSD (0.10) =					12.0	0.7	8			19.4	14.2	17.4	15.1	20.0	26.1

FULL SEASON TEST 113 - 116 Day CRM

Top 30 of 30 tested

Channel	214-14VT3P	VT3P	P500,V	114	164.2	16.8	4	1,142.00	1	176.2	154.6	130.1	126.5	233.1	155.0
Kruger	K-7215	VT3P	P500,V	115	163.7	17.8	1	1,134.40	2	158.3	164.6	148.6	143.6	221.6	146.4
LG Seeds	LG2620VT3	VT3	P500,V	113	160.0	17.4	5	1,110.40	3	174.5	171.0	132.7	112.9	216.9	163.2
Pioneer	P1498HR GC	HX,RR2	P1250,V	114	159.8	17.3	2	1,109.40	4	176.3	167.6	117.5	129.2	219.4	156.4
Kruger	K-7516	VT3P	P500,V	116	159.7	18.7	0	1,103.10	5	173.1	156.0	138.2	115.1	223.0	149.3
Stine	9808VT3Pro*	VT3P	C250	116	158.5	21.2	3	1,084.90	12	177.4	151.9	134.7	119.1	201.6	159.8
AgriGold	A6573VT3	VT3	P500,V	114	158.4	18.2	5	1,096.10	7	178.6	142.0	132.9	121.4	205.0	154.3
Channel	216-63VT3	VT3	P500,V	116	158.1	17.6	2	1,096.40	6	180.6	167.1	126.6	114.5	214.6	154.0
LG Seeds	LG2636VT3	VT3	P500,V	114	158.0	18.0	5	1,094.20	8	181.0	157.2	132.6	118.4	211.5	146.6
Producers	7574VT3	VT3	P500,V	115	157.9	18.4	9	1,091.90	10	171.7	174.3	118.6	125.1	217.2	156.7
AgriGold	A6533VT3	VT3	P500,V	113	157.2	17.9	14	1,089.00	11	178.9	163.3	128.4	120.7	187.1	170.8
Kruger	K-7514	VT3P	P500,V	114	157.0	16.4	2	1,093.50	9	160.2	161.7	135.1	132.0	208.7	149.2
AgriGold	A6553VT3	VT3	P500,V	113	156.5	18.1	3	1,083.40	13	173.4	166.8	121.8	121.3	213.1	152.7
Pioneer	33D49 GC	HX,RR2	C250	115	156.5	18.4	2	1,082.20	14	177.7	145.6	134.5	103.5	221.0	146.0
Producers	7394VT3	VT3	P500,V	113	154.4	17.5	13	1,071.20	15	186.0	161.4	124.8	118.7	191.1	151.6
Dekalb	DKC63-84 GC	VT3	P250	113	152.3	16.1	8	1,061.90	16	165.9	161.0	129.0	96.5	220.9	149.0
G2 Genetics	5H-515 <sup>^</sup> *	HX,RR2	C250	115	151.3	18.1	5	1,047.40	20	170.5	149.8	114.6	117.0	208.8	145.5
Stine	9806VT3Pro	VT3P	C250	114	151.3	19.9	2	1,040.60	22	172.9	150.3	132.7	121.4	189.2	140.2
Dekalb	DKC65-63 GC	VT3	P250	115	150.8	16.9	6	1,048.40	19	170.8	154.4	140.0	99.2	191.9	152.2
Kruger	K-7312	VT3P	P500,V	112	150.6	15.9	1	1,050.80	18	172.9	162.8	129.1	106.2	208.1	136.5
Fontanelle	8D912	VT3	P250	116	150.5	18.3	1	1,041.10	21	160.8	162.1	117.1	111.7	217.0	146.0
Garst	83L67-3111	3111	C250	113	150.1	17.7	18	1,040.60	23	178.7	164.7	131.4	99.5	187.6	153.5
Fontanelle	8T468	VT3	P250	114	148.9	16.5	23	1,036.70	24	192.0	162.6	122.1	86.3	177.6	166.6
NuTech	5V-514*	3111	C250	114	147.2	17.5	6	1,021.20	25	162.5	146.6	116.2	97.0	191.6	168.8
G2 Genetics	5H-513 <sup>^</sup> *	HX,RR2	C250	113	147.1	18.3	1	1,017.60	26	169.2	153.4	119.3	101.8	208.8	136.2
Fontanelle	8A818	STX	P500	115	143.6	18.0	3	994.40	27	167.0	145.3	103.6	102.8	200.9	143.8
G2 Genetics	5H-716 <sup>^</sup> *	HX,RR2	C250	116	143.1	18.6	2	988.80	28	162.5	159.1	122.7	103.5	191.5	135.1
G2 Genetics	5X-1301 <sup>^</sup> *	HXT,RR2	P1250,V	113	141.0	18.1	0	976.10	29	161.3	145.3	124.2	112.4	181.9	125.0
NuTech	5V-813*	3111	C250	113	134.8	17.5	5	935.20	30	139.5	148.8	108.7	91.7	191.9	142.0
Gateway	815 CK	VT3	P250	112	151.6	15.6	4	1,058.90	17	148.2	162.9	143.5	114.1	216.5	135.5
<b>Test Average =</b>					<b>153.1</b>	<b>17.8</b>	<b>5</b>	<b>1,061.40</b>		<b>170.6</b>	<b>157.8</b>	<b>127.0</b>	<b>112.8</b>	<b>205.6</b>	<b>149.6</b>
LSD (0.10) =					11.3	0.8	10			19.3	20.0	20.2	14.7	16.9	15.7

\* = full test rejected, not included in summary; † = 2 replications in Seward early and Cook full season tests

# F.I.R.S.T. Iowa North Soybean Results

## Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Algona	clay loam	conventional	15	5/17	142.3	low	2.56
Emmetsburg	silty clay loam	minimum	15	5/17	142.2	low	1.81
New Hampton	silty clay loam	no-till	15	5/16	136.7	low	2.19
Osage	silty clay loam	conventional	15	5/17	148.5	low	1.60



Corey Rozenboom, FIRST Manager

### Soybean Stats:

Yield Range: 48.5-66.1 bu. per acre

Yield Average: 61.8 bu. per acre

Top \$ Per Acre: \$740.04

## Soybean Field Notes: Iowa North

**Algona**—This site was planted on May 17, along with two of the other sites in the region. Wet weather early in the season followed by hot and very dry conditions during flowering and pod development took its toll on varieties due to shallow root systems. Heavy wind mid-August caused significant lodging, but most varieties were able to rebound well. A Sept. 15 freeze also nipped some later-maturing varieties during seed fill. The average yield at this site was 58.3 bu. per acre with a top performer producing 65.1 bu. per acre.

**Emmetsburg**—Timely rains

throughout the growing season and a lack of disease pressure at this site provided some big yields here. Despite an August wind-storm that caused lodging across the site, most varieties were easy to harvest. A mid-September freeze may also have nipped some later-maturing varieties that had not completed filling seeds prior to maturity. Yields here averaged 68.4 bu. per acre.

**New Hampton**—In spite of a dry start to the season (with the exception of a July 2 hailstorm), this no-till site received evenly spaced rains from mid-July to mid-August, allowing for tre-

mendous growth. White mold was observed within the plot during a visit in late August, and the effects could be seen while harvesting. Overall, this was a very consistent site.

**Osage**—In spite of dry weather at this site for most of August and September, timely rains during flowering and pod development set the stage for good yield potential here. The plants were tall from a lot of vegetative growth, resulting in some lodging; however, pod load and seed set were excellent across the site. A dry finish to the season resulted in small-seeded beans.

### 1.8 - 2.5 Maturity Group

### Top 20 of 72 tested

Company/Brand	Seed Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Algona	Emmetsburg	New Hampton	Osage
FS Hisoy	HS 18A12	RR2Y	1.8	R	CM	66.1	8.8	3	740.04	60.5	70.0	67.1	66.7
FS Hisoy	HS 19A02	RR2Y	1.9	R	CM	65.9	9.2	6	737.52	59.7	72.1	64.0	67.6
Trelay	20RR43	RR2Y	2.0	R	AC	65.5	9.4	2	733.88	56.1	72.3	68.2	65.5
SOI	2049NRR2Y	RR2Y	2.0	R	CM,AP	65.4	9.2	3	731.92	57.7	70.3	68.7	64.7
Prairie Brand	PB-1823R2	RR2Y	1.8	R	CM	65.3	8.4	3	730.80	62.7	68.4	62.8	67.1
Channel	2305R2	RR2Y	2.3	R	AC	65.2	11.2	4	730.24	61.9	68.5	63.0	67.4
Dyna-Gro	36RY19	RR2Y	1.9	R	AC	65.1	9.2	4	728.56	62.4	72.3	62.4	63.1
Prairie Brand	PB-2042R2	RR2Y	2.0	R	CM	65.0	9.2	1	727.44	60.5	70.3	65.0	64.0
Viking	2044R2N	RR2Y	2.0	R	AC	64.9	9.3	3	726.32	61.7	73.1	61.1	63.5
Trelay	24RR19	RR2Y	2.4	S	AC	64.9	13.8	6	725.31	63.5	73.9	61.6	60.4
Kruger	K2-1902	RR2Y	1.9	R	AC	64.7	9.0	1	724.64	59.0	72.0	64.3	63.5
Viking	2000R2N	RR2Y	2.0	R	AC	64.6	9.2	5	723.80	58.9	68.8	63.1	67.7
Kruger	K2-2301	RR2Y	2.3	S	AC	64.6	13.4	6	722.72	63.6	74.8	55.1	64.8
Prairie Brand	PB-2242R2	RR2Y	2.2	R	CM	64.6	11.4	3	723.24	65.1	70.6	61.0	61.6
FS Hisoy	HS 21A02	RR2Y	2.1	R	CM	64.5	9.1	2	722.40	60.0	72.8	62.3	62.9
Gold Country	1741	RR2Y	1.7	R	AC	64.4	8.4	2	720.72	61.5	71.1	61.1	63.7
Kruger	K2-1901	RR2Y	1.9	R	AC	64.3	8.9	3	720.44	61.1	67.5	63.0	65.7
Viking	2174RR	RR	2.1	MR	AC	64.2	10.7	1	718.76	56.7	73.9	64.0	62.1
Kruger	K2-2102	RR2Y	2.1	R	AC	63.8	9.9	3	714.84	56.3	71.1	59.2	68.7
NuTech	6228*	RR	2.2	S	T6	63.7	10.3	2	713.72	58.1	73.9	60.9	62.0
<b>Site Averages =</b>						<b>61.8</b>	<b>11.9</b>	<b>4</b>	<b>691.67</b>	<b>58.3</b>	<b>68.4</b>	<b>58.5</b>	<b>62.1</b>
LSD (0.10) =						3.9	2.6	2		5.2	5.2	5.2	5.3

# F.I.R.S.T. Iowa North Central Soybean Results

## Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Galva	silty clay loam	conventional	15	5/18	139.9	low	2.79
Havelock	silt loam	conventional	15	5/18	134.8	low	1.71
Iowa Falls	clay loam	conventional	15	5/18	155.1	low	2.04
Shell Rock	loam	conventional	15	5/16	156.0	low	2.18



Corey Rozenboom, FIRST Manager

### Soybean Stats:

Yield Range: 45.6-65.9 bu. per acre

Yield Average: 57.4 bu. per acre

Top \$ Per Acre: \$738.10

## Soybean Field Notes: Iowa North Central

**Galva**—Well-timed rains all season and very little pest pressure from disease or insects provided a great offensive test here. Plants had tremendous vegetative growth and good pod load right up to the top. Considering the height of the plants, there was not much lodging to note. Green stem was present in some later varieties even though the seed was dry.

**Havelock**—Root health was the key to top-performing varieties at this site. Persistent rains early in the season kept this field saturated from planting to the first weeks of July. Water stress

leading into flowering resulted in stunted plants, significant bacterial blight and few pods low in the canopy. In spite of a Sept. 15 freeze, earlier varieties finished well. The average yield was 54.4 bu. per acre with a top performer producing 63.1 bu. per acre.

**Iowa Falls**—This was a very nice uniform site with a lot of growth and very tall plants. The site was planted on May 18, the same date as three of the four locations for this region. Adequate moisture during early reproductive stages and extreme growth in these narrow rows was enough to cause white mold to

take out plants in susceptible varieties. Later varieties in this test may not have completed seed fill before a Sept. 15 freeze.

**Shell Rock**—A hot, dry July appeared to interfere with the first couple weeks of flowering at the Shell Rock location. After a couple of much-needed showers at the end of July, more dry weather from mid-August through September took its toll on pod development and seed filling. This was evidenced by fewer pods and small-seeded beans. There was not much evidence of disease pressure here. The site was very uniform.

### 2.1 - 2.8 Maturity Group

Top 20 of 72 tested

Company/Brand	Seed Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Galva	Havelock	Iowa Falls	Shell Rock
Prairie Brand	PB-2242R2	RR2Y	2.2	R	CM	65.9	7.9	3	738.10	77.3	57.0	65.8	63.3
FS Hisoy	HS 22A12	RR2Y	2.2	R	CM	65.0	7.5	2	728.00	75.0	63.1	63.1	58.8
Gold Country	2341	RR2Y	2.3	S	AC	64.1	7.9	4	717.90	72.4	58.0	65.9	60.2
SOI	2013NRR2Y	RR2Y	2.0	R	CM,AP	63.2	7.7	3	707.80	78.0	56.8	63.7	54.2
Prairie Brand	PB-2143R2	RR2Y	2.0	R	CM	62.7	7.6	2	702.20	70.4	59.8	64.8	55.6
SOI	2430RR2Y	RR2Y	2.4	S	CM,AP	62.6	7.9	2	701.10	73.4	58.8	61.8	56.5
Viking	2300R2	RR2Y	2.3	S	AC	62.2	7.8	2	696.60	68.9	56.5	64.4	58.8
G2 Genetics	7250^*	RR	2.5	R	T6	61.7	8.1	2	691.00	69.1	61.3	65.5	50.7
Hefty	H22Y12	RR2Y	2.2	MR	I	61.6	7.6	2	689.90	71.3	59.3	63.2	52.6
FS Hisoy	HS 22A01	RR2Y	2.4	S	CM	61.4	7.9	2	687.70	69.0	57.1	63.0	56.3
Channel	2402R2	RR2Y	2.4	S	AC	61.1	7.8	2	684.30	69.1	53.0	62.0	60.4
Pfister	24R28	RR2Y	2.4	S	CM	61.0	7.9	2	683.20	70.6	55.0	60.3	58.2
Dyna-Gro	31RY25	RR2Y	2.5	MR	AC	60.8	8.4	10	681.00	67.5	61.5	63.8	50.2
Titan Pro	24M21	RR2Y	2.4	R	AC	60.5	8.4	6	677.60	73.6	55.2	58.7	54.3
Kruger	K2-2301	RR2Y	2.3	S	AC	60.3	7.7	2	675.40	71.0	55.2	54.3	60.5
FS Hisoy	HS 19A02	RR2Y	1.9	R	CM	60.3	7.5	2	675.40	67.9	55.9	60.0	57.2
Hefty	H23Y10	RR2Y	2.2	S	I	60.1	7.7	2	673.10	69.3	51.0	61.5	58.7
Prairie Brand	PB-2419RR2	RR2Y	2.3	S	CM	60.1	7.9	2	673.10	71.1	55.5	56.9	56.8
Prairie Brand	PB-2391R2	RR2Y	2.3	S	CM	60.1	7.8	2	673.10	67.5	52.5	64.3	55.9
Titan Pro	23M9	RR2Y	2.3	S	CM	59.7	7.8	2	668.60	69.9	51.8	60.8	56.1
<b>Site Averages =</b>						<b>57.4</b>	<b>8.3</b>	<b>3</b>	<b>643.40</b>	<b>65.2</b>	<b>54.4</b>	<b>57.3</b>	<b>52.7</b>
LSD (0.10) =						3.5	0.5	4		5.6	4.4	5.2	4.6

# F.I.R.S.T. Iowa South Central Soybean Results

## Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Anamosa	silty clay loam	no-till	15	5/23	108.2	n/a	2.82
Keystone	silty clay loam	conventional	15	5/20	145.7	n/a	1.71
Slater	loam	minimum	15	5/19	149.7	n/a	2.73
Yale	loam	conventional	15	5/19	164.2	n/a	2.09



Randy Meinsma, FIRST Manager

### Soybean Stats:

Yield Range: 57.8-70.5 bu. per acre

Yield Average: 64.0 bu. per acre

Top \$ Per Acre: \$831.61

## Soybean Field Notes: Iowa South Central

**Anamosa**—This plot, planted May 23, was the latest planted in this region. On June 8 and July 11, this plot was hit hard by hail. Despite extensive damage in the first event, the small plants recovered, becoming very bushy to compensate for lost plants. The downside was greater lodging late in the season. Yields were a bit variable across the plot. Large stems produced many branches with full pods; some plants were slow to drop leaves with a few green stems.

**Keystone**—Once plants were up after the May 20 plant date, things went well. This site had tall plants with many pods. Even

with strong windstorms during growth, there was very little lodging. No major diseases were seen and there were no pest problems. This plot did receive a small rainfall before harvesting, yet all plants were clear of leaves and stems were dry at the time of harvest. The pods were dry and shelled with ease.

**Slater**—This plot, planted on May 19, withstood early heavy rains, a cool start to the growing season, and the following heat and dryness by catching rain that helped it recover from the harsh early conditions. The plants were medium height with many pods

but small seeds. No major pests or disease were evident. The plot received rain before harvest. Most lodging was due to taller plants lying over, but lodging did not affect harvesting.

**Yale**—A hot and dry growing season described the year for Yale. With a little more rain, the plot would have produced a much better yield. Pods were small and contained very small seeds. There were no pests or disease evident. Plants were medium in height. The average yield was 58.4 bu. per acre with a top producer yielding 64.6 bu. per acre.

### 2.4 - 3.1 Maturity Group

Top 20 of 42 tested

Company/Brand	Seed Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Anamosa	Keystone	Slater	Yale
FS Hisoy	HS 25A12	RR2Y	2.5	R	CM	70.5	11.7	26	831.61	65.9	78.6	78.0	59.4
SOI	2534RR	RR	2.5	S	CM,AP	70.1	11.2	14	826.89	70.6	75.0	72.9	61.8
Prairie Brand	PB-2419RR2	RR2Y	2.3	S	CM	69.6	11.1	19	820.69	73.8	74.3	71.4	58.7
Titan Pro	23M9	RR2Y	2.3	S	CM	68.2	11.0	11	804.17	68.6	73.6	73.3	57.1
Dyna-Gro	31RY25	RR2Y	2.5	MR	AC	68.1	11.9	26	803.88	68.2	70.5	75.1	58.7
FS Hisoy	HS 24A01	RR2Y	2.4	S	CM	68.0	11.4	20	801.81	72.1	66.6	75.7	57.4
Prairie Brand	PB-2412X	RR2Y	2.4	R	CM	67.8	11.3	9	799.45	66.1	66.5	73.8	64.6
Prairie Brand	PB-2544R2	RR2Y	2.5	R	CM	66.8	11.8	26	787.65	66.6	68.9	76.1	55.4
G2 Genetics	7282^*	RR	2.8	R	T6	65.0	12.8	12	767.00	66.1	64.4	66.3	63.2
Kruger	K2-2904	RR2Y	2.9	R	AC	64.9	12.2	19	766.12	62.1	67.3	65.7	64.6
Kruger	K2-2803	RR2Y	2.8	R	AC	64.9	11.7	19	765.53	63.1	66.9	66.5	63.0
FS Hisoy	HS 25A11	RR2Y	2.5	S	CM	64.9	11.9	13	765.23	65.9	69.8	68.1	55.6
G2 Genetics	7310^*	RR	3.1	R	T6	64.8	13.3	21	764.58	64.7	66.5	68.1	60.0
FS Hisoy	HS 27A12	RR2Y	2.7	R	None	64.3	11.2	15	759.04	71.8	66.1	62.8	56.6
G2 Genetics	7272^*	RR	2.7	R	T6	64.3	11.5	16	759.04	61.1	68.2	70.0	58.0
Dyna-Gro	38RY28	RR2Y	2.8	R	AC	64.3	11.7	18	759.04	61.2	66.0	66.1	64.0
FS Hisoy	HS 29A12	RR2Y	2.9	R	CM	64.2	12.3	28	757.56	63.2	69.9	64.6	59.1
Kruger	K2-2602	RR2Y	2.6	R	AC	64.2	11.5	19	757.27	65.5	63.6	66.0	61.6
NK Brand	S28-K1 GC	RR	2.8	S	CM	64.1	11.9	19	756.09	61.7	64.5	67.1	63.0
FS Hisoy	HS 28A02	RR2Y	2.8	R	CM	64.0	12.0	19	754.61	61.9	64.2	65.3	64.4
<b>Site Averages =</b>			<b>64.0</b>	<b>12.2</b>	<b>20</b>	<b>754.34</b>	<b>64.3</b>	<b>66.1</b>	<b>67.0</b>	<b>58.4</b>			
LSD (0.10) =			4.2	2.6	12		6.8	6.1	4.1	5.3			

# F.I.R.S.T. Iowa South Soybean Results

## Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Oakland	silt loam	no-till	15	5/18	158.0	n/a	6.40
Oskaloosa	silt loam	conventional	15	5/18	157.8	n/a	1.75
Washington	silty clay loam	no-till	15	5/17	140.8	n/a	0.85
Winterset	silty clay loam	minimum	15	5/19	152.1	n/a	2.92



Randy Meinsma, FIRST Manager

### Soybean Stats:

Yield Range: 64.9-74.7 bu. per acre

Yield Average: 68.9 bu. per acre

Top \$ Per Acre: \$881.85

## Soybean Field Notes: Iowa South

**Oakland**—This plot was planted on May 18. The plants were healthy with almost all leaves dropped off at harvest time. The plants were medium height, having many small pods containing small seeds. The plot did have a light frost before harvest. Weather was very hot and dry during the last part of the growing season. The average yield on this test was 62.5 bu. per acre.

**Oskaloosa**—This plot is set on top of a hillside with great drainage, which helped the site cope with the abundance of early rains. The soybean plants were medium to tall with plenty

of pods. Seeds from the pods were small in size. There were no major pests or disease present at harvest. Stems were strong and stood well. The soil was very loose under the plants; there was no compaction.

**Washington**—This plot overcame all the bad weather and performed well. It was the earliest plot planted in this region with a May 17 planting date. Plants had short, strong stems with many pods and small seed size. There was no disease observed, unlike past years. The plot received a small amount of rain prior to harvesting which helped restore grain moisture

for the site, contrasting with low grain moisture experienced in the surrounding area due to hot, dry weather.

**Winterset**—This location has always performed well with soybeans and this year was no exception. The plot received a lot of rain right after planting. Some fields in the area did not get planted until weeks after this plot was planted. The season was cool for the start of growth. Several small rains at pod fill helped yields to a great extent. A light frost in September slowed drydown and caused damage to the tops of the plants.

## 2.9 - 3.6 Maturity Group

## Top 20 of 30 tested

Company/Brand	Seed Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Oakland*	Oskaloosa	Washington	Winterset
Kruger	K2-2803	RR2Y	2.8	R	AC	74.7	10.9	2	881.85	64.8	73.9	79.3	71.0
Channel	3303R2	RR2Y	3.3	R	AC	73.8	10.6	9	870.45	63.8	73.9	72.5	74.9
FS Hisoy	HS 33A02	RR2Y	3.3	R	CM	71.4	11.0	9	842.13	66.9	74.8	72.2	67.1
Titan Pro	32M20	RR2Y	3.2	R	AC	71.3	10.8	9	841.34	63.3	71.9	76.6	65.4
Dyna-Gro	31RY34	RR2Y	3.4	R	AC	71.1	11.0	8	839.37	67.2	75.7	71.4	66.3
Kruger	K2-3202	RR2Y	3.2	R	AC	71.0	10.9	6	837.80	66.4	72.6	74.3	66.1
Channel	3402R2	RR2Y	3.4	R	AC	70.7	11.2	12	833.87	66.8	75.3	69.3	67.4
Asgrow	AG2931 GC	RR2Y	2.9	R	AC	70.3	10.8	3	829.54	67.9	70.2	72.1	68.6
Pfister	34R20	RR2Y	3.4	R	CM	70.3	11.3	10	829.15	65.6	75.9	69.6	65.3
Kruger	K2-3602	RR2Y	3.6	R	AC	70.1	11.7	14	827.57	45.5	80.0	71.7	58.7
Kruger	K2-3103	RR2Y	3.1	R	AC	69.8	10.6	7	824.03	65.4	76.9	67.0	65.6
Kruger	K2-2904	RR2Y	2.9	R	AC	69.8	10.7	4	823.64	60.1	74.2	71.9	63.3
Kruger	K2-3402	RR2Y	3.4	R	AC	69.7	11.0	11	822.85	67.7	67.5	72.9	68.8
Dyna-Gro	37RY33	RR2Y	3.3	R	AC	69.0	11.0	7	814.20	70.2	69.5	72.1	65.4
FS Hisoy	HS 29A12	RR2Y	2.9	R	CM	69.0	10.9	5	813.81	61.2	66.2	73.8	66.9
Kruger	K2-2703	RR2Y	2.7	R	AC	68.5	10.3	1	808.30	68.3	69.9	69.4	66.2
Asgrow	AG3030 GC	RR2Y	3.0	R	AC	68.4	10.7	3	807.12	63.5	60.5	75.5	69.2
Channel	3205R2	RR2Y	3.2	R	AC	68.1	10.4	7	803.97	61.3	69.4	70.5	64.5
Kruger	K2-3701	RR2Y	3.6	R	AC	68.1	10.7	8	803.19	46.0	71.1	71.1	62.0
Titan Pro	34M21	RR2Y	3.4	R	AC	68.0	10.7	8	802.40	66.4	76.7	68.5	58.8
<b>Site Averages =</b>						<b>68.9</b>	<b>10.8</b>	<b>8</b>	<b>813.05</b>	<b>62.5</b>	<b>70.6</b>	<b>70.6</b>	<b>65.5</b>
LSD (0.10) =						5.3	0.5	7		6.1	6.0	5.1	4.9

\* = not included in summary, high grain moistures

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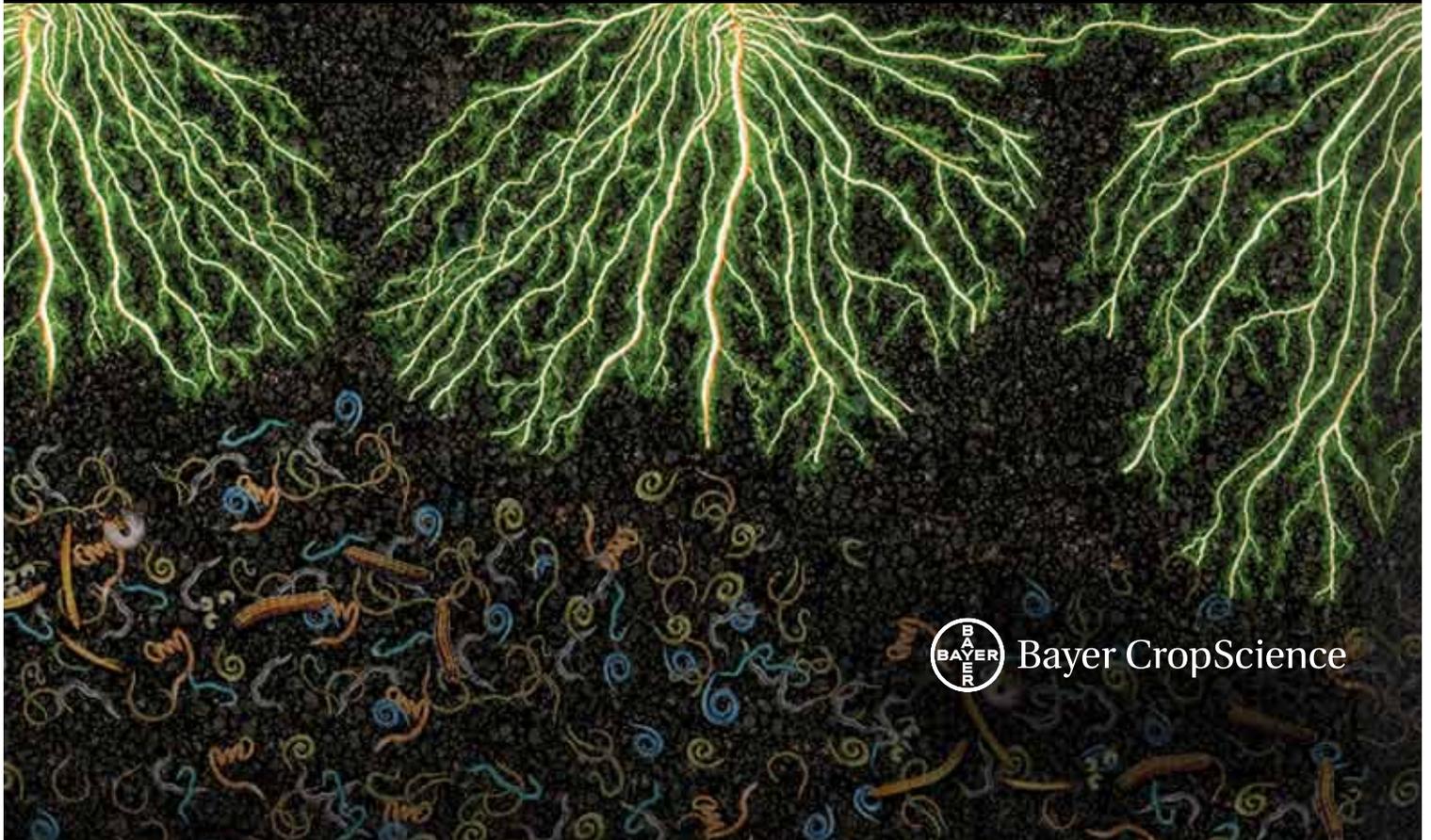
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