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Farmer's Independent Research of Seed Technologies

FIRST

A hybrid evaluation guide featuring independent, large plot, on-farm yield tests conducted with farmers and for farmers

Syngenta Seeds:
Fulfilling our (Genetic Diversity) Promise

By David Morgan, President, Syngenta Seeds, Inc.

At the heart of every productive crop are elite genetics developed by some of the sharpest minds in agriculture. How well a crop stands, uses nutrients, resists pests, matures and yields is built into its genes through years of plant breeding and trait development.

With this in mind, a few years ago, we at Syngenta had the foresight to bring together three brands with deep genetic pools, each with distinctive strengths. Our plant breeders told us that it would take four to five years to realize the full potential in the combined genetic pool of these three companies.

We made a promise to you, our customers, that Syngenta would have the greatest genetic diversity in the industry within that time.

This year we began to deliver on that promise.

Thanks to the genetics now available in our corn and soybeans, Pioneer and Monsanto now trail Syngenta Seeds in yield throughout many areas of the country.

Across Illinois, Garst®, Golden Harvest® and NK® brand corn hybrids are out-yielding Pioneer corn hybrids 64 percent of the time by 6.7 bu/A on average at 1,074 locations. And H-9138 3000GT brand from Golden Harvest is out-yielding DeKalb's DKC61-21 Brand (GENSS) by 19.1 bu/A on average at 32 locations in Illinois.*

In Fonda, Iowa, 85E98-3000GT brand from Garst finished first against 12 hybrids, beating DeKalb's DKC57-50 Brand by 22 bu/A with an amazing 244.2 bu/A yield.

In two separate Servi-Tech plots in eastern Nebraska, Syngenta products ranked first, second and third out of 14 hybrids. We beat leading hybrids from DeKalb, Pioneer, Mycogen and Channel Bio.

Our soybeans – long an industry leader in yield and value – still beat competitors three out of four times. I recently spoke with a grower whose NK brand soybeans out-yielded his DeKalb corn. With our consistently high NK soybean yields in Illinois, it wouldn't surprise me if there were multiple growers whose NK soybeans out-yielded their DeKalb corn hybrids.

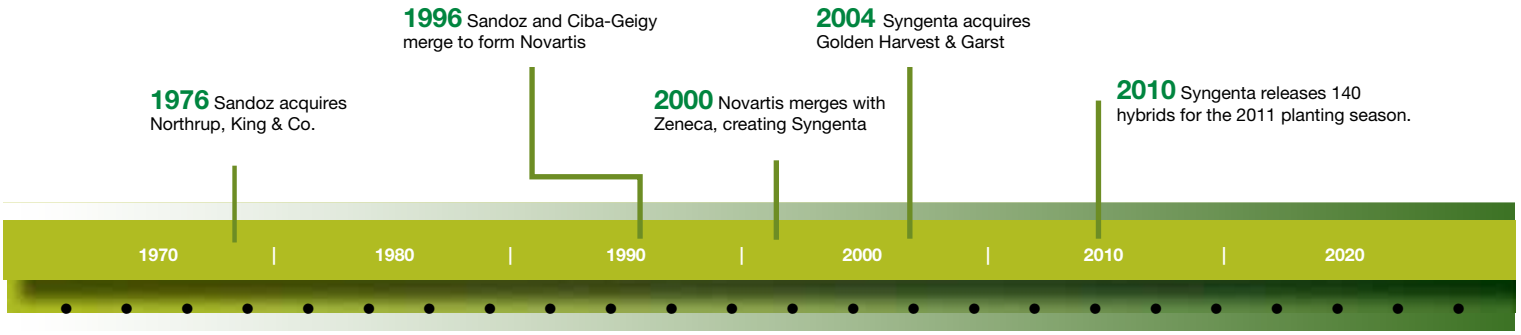
Growers know that a diverse genetic base means more than delivering outstanding yield. It also means more consistency and reduced risk.

This year's Goss's Wilt outbreak demonstrated how our genetics result in improved yield. Syngenta hybrids rated tolerant to Goss's Wilt provided superior performance versus competitors.

As impressive as this last year has been, we are expecting even greater achievements in 2011. We are offering 140 new corn hybrids of diverse genetics to growers for 2011. That's 140 new corn hybrids tailored to perform at optimum levels across a variety of growing conditions and down to a field-by-field level.

In addition, as strong as our results are in 2010 and will be in 2011, our experimental hybrids look even more promising. We have just begun to see the fruits of our labors.

With so many developments in seeds, Syngenta is better equipped today than ever before to help you maximize the productivity of every acre our science touches. After all, "Bringing plant potential to life" is what keeps our hearts racing and our minds focused on an even brighter tomorrow.



 **Yield data from 2010 Syngenta Seed Trials.*

syngenta

Technologies

3000GT	Agrisure® 3000GT
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®
RR	Roundup Ready® Soybeans
RR2	Roundup Ready® Corn 2
RR2Y	Genuity™ Roundup Ready 2 Yield®
SS	SmartStax™
STS	STS®
VT2	YieldGard VT Rootworm/RR2™
VT2P	Genuity™ VT Double PRO™
VT3	YieldGard VT Triple®
VT3P	Genuity™ VT Triple PRO™
YGCB	YieldGard® Corn Borer

Seed Treatments

AC	Acceleron®
AM	ApronMaxx®
AP	Apron XL®
AVC	Avicta® Complete Corn
C	Cruiser®
CM	CruiserMaxx®
E	Excalibre™
ES	Escalate™
I	Inovate™ System
O	Optimize®
P	Poncho®
T	Trilex®
T6	Trilex® 6000
V	Votivo™

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.You can view or 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 containing F.I.R.S.T. results from different geographies. Visit www.firstseedtests.com, click Media and Print Media to download or view all results editions or type www.firstseedtests.com/printmedia.htm into your browser.

Cover photo by Denny Eilers

Covering Iowa and Eastern Nebraska

Contents

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

Farmer's 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 13 states: Delaware, Illinois, Indiana, Iowa, Maryland, Michigan, Minnesota, Nebraska, North Dakota, Ohio, Pennsylvania, South Dakota and Wisconsin. In 2010, we compared yields of 874 corn and 439 soybean products. In total, more than 58,500 plots spread across 248 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, chosen by F.I.R.S.T. managers to bridge results between early- and full-season tests, and Grower Choice products (denoted by GC at the end of the product name), provided by our host farmers for their own 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 the 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 eggs 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 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. Here you will find insight regarding test conditions such as weather patterns, plant health and any other factors that may have impacted product results.

Footnotes and Abbreviations:

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

Brands in ***italics*** exceed the grain moisture limit for this test.

Brands identified with * had no commercial seed lot number.

Brand names ending with GC are grower chosen product entries.

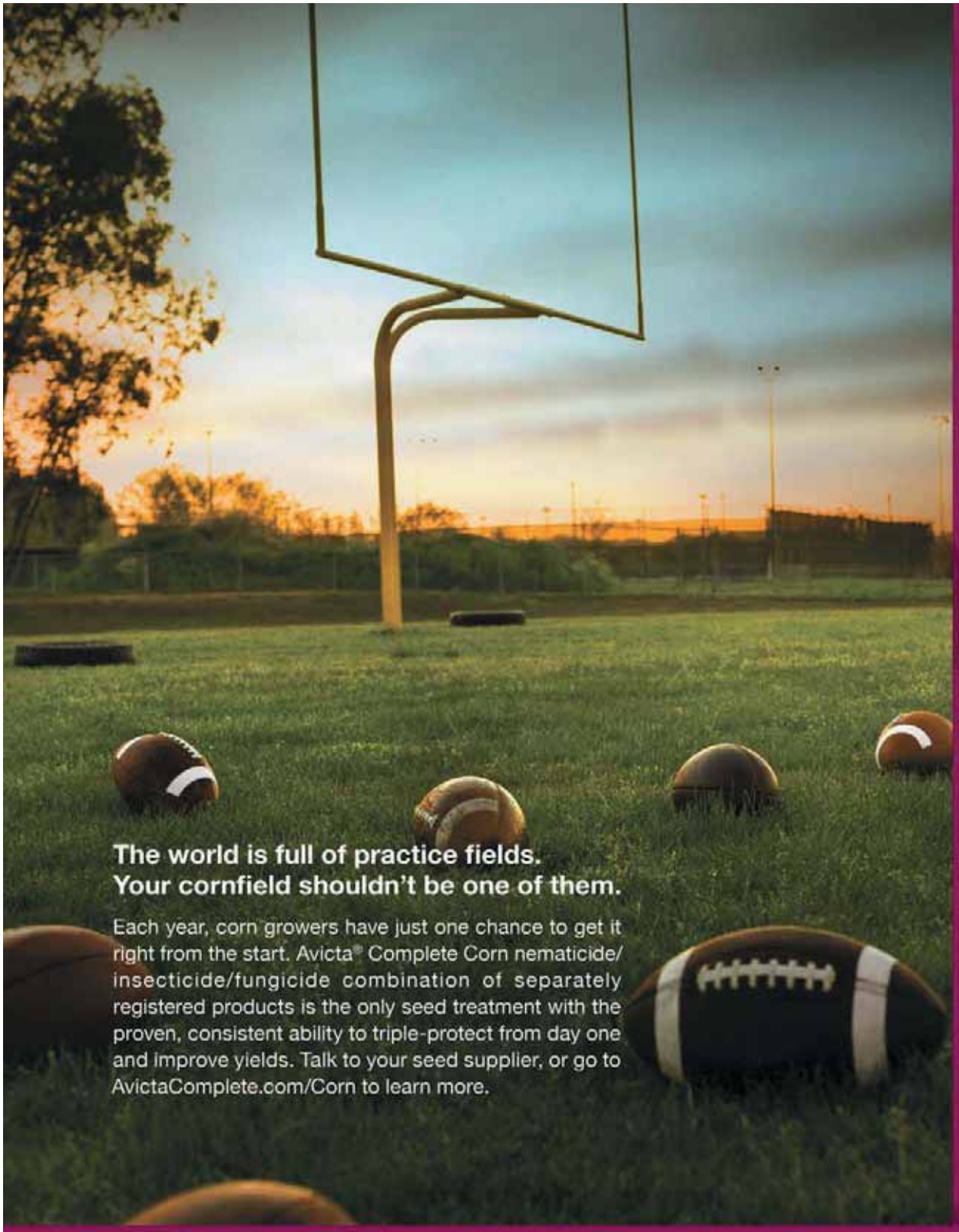
identifies rejected results that are omitted from summary

** identifies locations with 2 replications

^ G2® brand seed is distributed by NuTech Seed, LLC. HPT® brand seed is distributed by Hoegemeyer Hybrids, Inc. RPM® brand seed is distributed by Doebler's PA Seed. XL™ brand seed is distributed by Beck's Superior Hybrids. G2®, HPT®, RPM®, and XL™ are trademarks of Pioneer Hi-Bred.

ns – not significant

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



The world is full of practice fields. Your cornfield shouldn't be one of them.

Each year, corn growers have just one chance to get it right from the start. Avicta® Complete Corn nematicide/insecticide/fungicide combination of separately registered products is the only seed treatment with the proven, consistent ability to triple-protect from day one and improve yields. Talk to your seed supplier, or go to AvictaComplete.com/Corn to learn more.

Avicta® Complete Corn

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2010 Season Highlights

Variability was the watchword of the 2010 growing season. While growers strive for consistency, the results were highly variable this year. Corn yields varied from 30.1 bu. to 299.6 bu. per acre. Soybean yields varied from 4.4 bu. to 91.2 bu per acre. In some cases, those results provide a unique opportunity to judge seeds on individual aspects of their performance.

"2010 was a fantastic year for data even though we had a lot of variability," says Eric Beyers, F.I.R.S.T. manager for parts of Illinois. "People should not by any means look at the data as not having credibility, but they may need to take a little more time to understand it. It was a very good year for data because it culminated in a lot of answers."

By looking at various plots and determining what happened there, Beyers says, it's possible to make decisions on a wide range of factors and how they fit into your farming operation. This year's data will take extra effort to distill because yield isn't going to tell the whole story, he notes. The data from stressed plots with lower yields are actually more valuable in determining which hybrids and varieties perform best in stressful situations.

CORN

In general, corn yields were lower and more variable than is normally seen in F.I.R.S.T. testing, points out Joe Bruce, general manager for F.I.R.S.T. Corn yields averaged 10.5 bu. per acre less this year than in 2009 across all testing areas.

"The soil uniformity of Iowa and Illinois traditionally provide very consistent results. Although planting was timely and we had normal temperatures, factors such as excessive rainfall, standing water and unresolved soil compaction from the wet, late 2009 harvest introduced stressors that limited corn yield," Bruce says. "At many locations, nitrogen was a limiting factor." Saturated soils led to nitrogen losses by denitrification and nitrate subsoil leaching. The situation was often worse in high-residue corn-on-corn production, where nitrogen was used by microbes to decompose residue.

"Despite having a great looking crop mid-season, the stresses of 2010 severely hampered corn yield potential."

— Joe Bruce, F.I.R.S.T. General Manger

"Despite having a great looking crop midseason, the stresses of 2010 severely hampered corn yield potential," Bruce adds.

Corn yields in the Minnesota and mid-Atlantic regions were a pleasant surprise, with yields trending above average. Ample but not excessive rainfall combined with moderate temperatures produced outstanding corn yields, Bruce says. All the Minnesota regions averaged more than 200 bu. per acre, and the top yield in southeast Minnesota was 233.9 bu. per acre. The Pennsylvania regions averaged more than 185 bu. per acre, and the top-yielding hybrid in the central Pennsylvania region averaged 209.3 bu. per acre over six locations, with one location reaching 228 bu. per acre—an unusually high yield for that area of the country.

"The farmers in central Pennsylvania were pleasantly surprised with their corn yields. I know 200 bu. is often seen in the Midwest, but to hit 200 bu. here is unheard of," says Rob Kauffman, F.I.R.S.T. manager for the mid-Atlantic region. "The central Pennsylvania region was a bin-buster this year."

GENETICS

No single company's genetics dominated the corn trials. While Monsanto-owned companies came out on top in past years' results, Bruce comments that wasn't the case for 2010.

"It appeared that this year genetics from all major seed players were very competitive, and no single genetics supplier dominated the Top 30 harvest reports," Bruce says. "It appears many of these suppliers have finally integrated the best trait technologies into their elite genetics, creating a very competitive stable of products across the industry."

Corn Yield						Soybean Yield					
	% change '09 to '10	bu. (+/-) '09 to '10	(bu. per acre) 2010	2009	2008	% change '09 to '10	bu. (+/-) '09 to '10	(bu. per acre) 2010	2009	2008	
Minimum	-64.4	-54.5	30.1	84.6	18.8	-78.7	-16.3	4.4	20.7	18.3	**Minimum**
Average	-5.3	-10.8	191.6	202.4	191.9	+10.4	+5.6	59.6	54.0	51.9	**Average**
Maximum	-3.5	-11.0	299.6	310.6	281.0	+13.6	+10.9	91.2	80.3	90.9	**Maximum**

Data from all F.I.R.S.T. plots tested during that year. Any rejected data was eliminated from these figures.

It's good to see competition in the industry, and Mark Tollefson, F.I.R.S.T. manager for South Dakota, notes that he enjoys seeing how independent testing gives smaller independent companies a way to effectively test their products against larger ones.

"We've seen some smaller regional companies consistently show up in the Top 30 results, and often they'll pop up in the Top 10," Tollefson says. "The more companies that are in play, the more choices farmers have, and it's great to see how these small regional players stack up against some of these larger companies."

One percent of corn hybrids tested were conventional hybrids. A large percentage of hybrids contained multiple GMO traits; 98% contained a glyphosate-tolerant trait; 32.4% contained LibertyLink; and more than 88% were a triple stack, containing protection from corn borer and corn rootworm and at least one herbicide-tolerance trait.

SOYBEANS

For soybeans, Bruce comments, "Wow! Where did the yield come from?"

Soybean yields were above average in most areas with low disease incidence. Yields averaged 5.6 bu. per acre above 2009 levels, and the maximum yield of 91.2 bu. per acre topped the 2009 maximum by nearly 11 bu. Low yields were anticipated due to dry conditions over much of the country during the critical pod-fill stage. However, yields trended above average for most of the F.I.R.S.T. testing areas, Bruce says. The Iowa and mid-Atlantic regions were notable exceptions to that trend.

"In Iowa, late-season rainfall coupled with sudden death syndrome (SDS) reduced yield and increased yield variability," Bruce says. "The mid-Atlantic region had dry conditions, especially Preston, which limited yield potential."

SDS pressure was very high in southern parts of Iowa. Randy Meinsma, the F.I.R.S.T. manager for central and southern Iowa, points out that results in south central Iowa locations, especially Keystone and Slater, create an excellent opportunity to identify varieties with above-normal SDS tolerance, as the SDS pressure there was very high.

"Wow! Where did the [soybean] yield come from?"

— Joe Bruce, F.I.R.S.T. General Manger

Illinois also saw some SDS pressure. Since other stressors exacerbate the disease, the areas in Illinois that had it the worst were those that were planted May 6, says Jason Beyers, F.I.R.S.T. manager for northern Illinois and Wisconsin. Those plots endured a cold snap a week after planting, which hurt emergence and stressed the plants early.

"The good thing about having such high SDS pressure [across multiple locations] is that you can look at a variety and cross it with other tests in the region to see how it did," Meinsma says. "If it yielded low in one plot with heavy SDS pressure and did really well in another plot that didn't have SDS pressure, it tells you something."

Meinsma cautions that if a variety did not pop up in the Top 30, it could be because it fell below the reported results in that region, but it also might not have been tested there. To tell if a variety was tested in that plot, you'll need to look at the complete list of products tested, which can be downloaded as a PDF from *www.FirstSeedTests.com*. Click 2010 Reports, select the crop, and the list of Products Tested is the first link. If you're interested in a specific soybean variety or corn hybrid, that crop's Products Tested list will identify other regions it was tested in, making it easier to cross-reference data for a particular seed number.

WEATHER

Mother Nature is always a factor in farming, and this year was no exception. "Weather conditions played a big role," says Rich Schleuning, F.I.R.S.T. manager. Schleuning manages the greatest north/south geographical swath of F.I.R.S.T. testing plots, from Michigan to southern Indiana and east into Ohio.

"One of the most amazing things about this year's harvest was I had guys in the Michigan Thumb region and in southern Indiana telling me

continued on page 10

Farmer's Independent Research of Seed Technologies

NENE Nebraska Northeast Corn Results

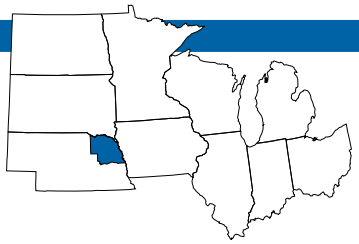
EARLY SEASON TEST 105 - 110 Day CRM — Top 30 of 36 tested

Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Columbus	Hartington	Hooper	Laurel	Oakland	West Point
Kruger	K-6010VT3	VT3	C250	**211.0**	15.3	1.2	$947.9	1	**240.0**	166.6	**199.8**	**228.8**	207.6	**223.0**
LG Seeds	LG2544VT3	VT3	P250	**209.4**	15.5	4.7	$939.7	2	236.5	**187.8**	**193.9**	219.9	211.8	206.6
Mycogen	2T699	VT3	C250	**208.3**	14.9	4.8	$937.9	3	220.6	**193.5**	**195.7**	217.1	**220.6**	202.4
Wensman	W7562VT3	VT3	P250	**208.0**	15.2	3.5	$935.0	4	234.2	183.0	189.7	223.3	**218.1**	199.7
Heine	810VT3PRO	VT3P	P250	**206.1**	15.9	1.5	$922.8	5	212.2	178.8	**191.1**	**228.0**	214.4	**212.1**
Fielders Choice	NG6726	VT3	P250	**205.0**	16.1	6.5	$916.9	8	228.3	180.6	175.3	219.9	**218.5**	**207.3**
AgriGold	A6384VT3Pro	VT3P	P250	202.6	13.9	1.5	$917.3	6	233.8	167.3	187.6	223.3	202.6	200.7
Kruger	K-6006VT3	VT3	C250	201.8	14.1	1.6	$912.6	9	225.8	172.2	183.8	219.4	**215.1**	194.7
Producers	7014VT3	VT3	P250	201.6	15.4	2.7	$905.2	11	232.1	174.6	179.2	209.8	**215.3**	198.4
LG Seeds	LG2549VT3	VT3	P250	201.5	15.0	2.8	$906.8	10	232.0	176.4	181.3	214.8	**215.9**	188.5
Renze	1300VT3	VT3	C250	200.8	15.8	1.5	$899.6	13	234.6	168.2	177.8	216.0	210.6	197.3
AgriGold	A6458VT3	VT3	P250	200.1	15.0	2.1	$900.5	12	233.0	172.9	**190.6**	208.7	208.0	187.4
Stine	9531VT3Pro	VT3P	P250	199.9	15.4	1.0	$897.6	15	214.8	166.6	176.6	**227.8**	211.6	202.2
Wensman	W7473VT3	VT3	P250	199.4	14.8	2.3	$898.3	14	**243.4**	174.5	169.8	214.6	206.9	187.3
Fielders Choice	NG6723	VT3	P250	198.8	15.1	1.7	$894.1	16	209.5	167.3	188.8	222.3	205.4	199.5
Fielders Choice	NG6696	VT3	P250	197.5	15.3	1.0	$887.3	18	210.9	172.5	176.1	**228.2**	206.6	190.4
Kruger	K-6408VT3	VT3	P250	197.0	14.8	2.4	$887.5	17	220.4	177.9	178.9	212.3	194.9	197.8
NuTech	3T-110	VT3	C250	196.6	16.0	3.3	$879.8	20	218.6	167.8	184.8	206.2	209.3	192.7
Mycogen	X20686	HXT,RR2	P250	195.8	15.2	4.0	$880.1	19	226.0	171.8	175.2	218.3	199.8	183.4
Fielders Choice	NG6686	VT3	P250	192.7	15.1	1.0	$866.7	22	227.0	179.4	176.7	192.1	191.6	189.5
Wensman	W7455VT3	VT3	P250	192.4	15.1	1.2	$865.3	23	209.7	170.7	171.8	214.7	204.4	182.8
NuTech	G2 5H-511^	HX,RR2	C250	192.3	15.5	1.2	$862.9	24	225.9	166.0	182.1	199.2	185.8	195.0
Wensman	W7433VT3	VT3	P250	192.2	14.2	1.7	$868.7	21	200.7	179.2	184.8	203.8	193.6	190.9
NuTech	G2 5H-509^	HX,RR2	C250	191.6	15.5	1.2	$859.8	25	221.4	174.9	163.8	206.5	197.1	186.0
Renze	7270RR2	RR2	C250	190.3	14.6	1.3	$858.3	27	210.3	162.4	173.2	211.0	190.8	194.1
Hoegemeyer	HPT 8041^ GC	HX,RR2	C250	190.3	15.8	1.2	$852.5	28	229.8	164.3	154.5	218.2	193.9	181.1
Producers	6814VT3	VT3	P250	189.8	14.1	2.3	$858.4	26	194.2	183.1	183.3	198.7	187.4	192.0
NuTech	3T-810	VT3	C250	188.7	16.8	1.0	$840.7	31	193.0	161.4	182.3	211.5	194.5	189.6
Heine	816VT3	VT3	P250	187.9	15.8	1.2	$841.8	30	197.3	168.3	175.8	209.6	194.9	181.6
Mycogen	2K662	HXT,RR2	C250	187.3	14.8	3.5	$843.8	29	208.1	156.0	172.5	218.0	185.2	183.7
Hoegemeyer	HPT 8102^ CK	HX,RR2	C250	**205.2**	16.2	3.1	$917.2	7	**239.4**	175.0	180.3	**227.3**	210.7	198.3
Test Average =				**196.3**	**15.2**	**2.1**	**$882.5**		**220.8**	**171.6**	**179.0**	**213.6**	**200.3**	**192.6**
LSD (0.10) =				8.2	0.7	2.9			18.2	15.2	11.4	10.9	14.2	14.5

FULL SEASON TEST 111 - 114 Day CRM — Top 30 of 36 tested

Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Columbus	Hartington	Hooper	Laurel	Oakland	West Point
Channel	212-65VT3P GC	VT3P	P250	**213.2**	15.8	1.2	$955.1	1	225.5	**204.7**	189.3	217.5	217.7	**224.2**
Kruger	K-6213VT3	VT3	P250	**210.6**	15.2	1.7	$946.6	2	216.0	194.9	193.9	**234.3**	214.6	210.1
AgriGold	A6553VT3	VT3	P250	**209.5**	16.0	2.5	$937.5	3	219.7	192.1	193.5	211.9	**223.2**	216.3
Producers	7394VT3	VT3	P250	207.8	16.3	2.0	$928.3	6	212.9	**198.7**	184.4	214.0	**223.4**	213.4
LG Seeds	LG2620VT3	VT3	P250	207.4	16.3	1.5	$926.6	8	204.9	192.3	185.1	213.0	**228.0**	221.1
Stine	9726VT3Pro	VT3P	P250	207.2	17.5	4.5	$919.5	11	213.5	185.9	191.7	212.8	220.5	218.7
Channel	211-99VT3P	VT3P	P250	206.8	15.0	2.6	$930.6	4	219.4	173.5	**198.2**	221.3	211.9	216.2
Kruger	K-6411VT3	VT3	C250	206.2	14.9	1.8	$928.4	5	223.1	172.4	191.7	217.4	216.7	215.7
AgriGold	A6533VT3	VT3	P250	206.2	16.2	2.2	$921.7	9	224.4	174.2	183.1	217.1	216.6	221.7
Fontanelle	7V657	VT3P	P250	206.0	15.0	2.6	$927.0	7	216.4	166.7	187.5	**225.3**	220.4	219.6
Kruger	K-1211RR	RR2	P250	204.9	15.3	1.7	$920.5	10	206.2	195.4	171.1	219.3	213.9	**223.5**
Heine	854VT3	VT3	P250	204.4	16.1	2.7	$914.2	12	226.1	171.9	189.0	210.2	208.9	220.5
Producers	7414VT3	VT3	P250	202.5	15.8	1.8	$907.2	14	212.2	192.9	174.0	217.2	215.1	203.7
Fontanelle	8T478	VT3	P250	202.1	15.4	1.7	$907.4	13	200.1	185.4	189.0	216.3	216.6	205.2
Renze	1399VT3	VT3	C250	201.8	16.1	2.4	$902.6	15	222.9	176.5	180.7	210.1	203.2	217.2
Stine	9806VT3Pro	VT3P	P250	201.2	17.5	2.0	$892.8	21	207.0	174.1	184.9	211.9	215.4	214.1
Heine	842VT3	VT3	P250	200.9	16.2	1.0	$898.0	16	222.8	184.6	172.3	209.0	201.3	215.3
Garst	83R38-3000GT GC	3000GT	C250	200.9	17.0	1.2	$894.0	19	220.9	176.4	191.8	211.5	200.0	204.8
Channel	214-14VT3P GC	VT3P	P250	200.5	16.5	1.5	$894.7	18	220.9	176.5	181.8	207.6	204.3	212.1
Stine	9728VT3Pro	VT3P	P250	199.8	17.3	2.7	$887.6	24	217.0	161.9	173.5	215.2	215.0	216.4
Heine	826VT3	VT3	P250	199.7	15.4	1.3	$896.7	17	223.1	184.1	187.6	202.6	197.3	203.7
Garst	84U58-3000GT GC	3000GT	C500	199.0	15.4	1.2	$893.5	20	219.0	182.0	166.2	205.0	211.2	210.3
Mycogen	2V732	VT3	C250	198.9	15.8	1.3	$891.1	22	207.2	172.2	176.0	213.8	204.5	219.7
Kruger	K-7614	VT3P	P250	198.7	16.2	1.0	$888.2	23	203.0	174.2	176.2	223.2	208.5	206.8
AgriGold	A6476VT3	VT3	P250	197.4	15.5	3.2	$885.8	26	209.3	159.5	178.9	216.6	210.9	209.3
Renze	1340VT3	VT3	C250	197.2	15.4	1.8	$885.4	27	202.6	184.3	170.1	208.7	205.8	211.4
LG Seeds	LG2616VT3	VT3	P250	196.8	14.9	2.0	$886.1	25	200.9	179.5	172.5	216.6	208.7	202.8
Garst	84N18-3000GT	3000GT	C500	194.5	16.4	2.4	$868.4	30	201.7	178.0	183.8	195.7	202.7	205.0
Heine	852VT3	VT3	P250	193.5	15.9	1.3	$866.4	31	193.9	166.9	186.2	192.3	203.5	218.4
Dekalb	DKC62-54 GC	VT3	P250	193.3	15.2	1.3	$868.9	29	217.2	170.8	157.1	208.9	197.3	208.2
Hoegemeyer	HPT 8102^ CK	HX,RR2	C250	196.9	16.2	1.3	$880.1	28	229.6	170.1	174.5	209.6	197.9	199.8
Test Average =				**200.6**	**16.0**	**2.0**	**$897.9**		**212.5**	**178.9**	**180.3**	**211.6**	**208.9**	**211.6**
LSD (0.10) =				8.1	0.6	1.5			19.1	18.4	15.4	13.4	12.9	10.2

Tim Dozier, FIRST Manager



Stats:
Yield Range: 154.5 to 243.4 bu. per acre
Yield Average: 198.5 bu. per acre
Top $ Per Acre: $1195.50

Field Notes: Nebraska NENE

Oakland – This test site provided high-quality results. We were able to get an excellent stand to start things off. This was partially due to ample rainfall early in the season that continued through the rest of the season, helping to deliver strong yields at harvest. Good stalk quality at harvest was another result; thus, no lodging was observed. The plants were healthy, with little disease and perfect weed control.

Hartington – This test site was located on an upland rolling hill topography. Early-season conditions were ideal to establish a strong and vigorous stand. Rainfall for the area was above average to really boost yield potential. There were no weed-control issues at this location and disease pressure was light. Production results showed an average of 171.6 bu. per acre for the early test and 178.9 bu. per acre for the full-season test.

Laurel – As the corn yields indicate, this non-irrigated test location delivered. Corn seedling establishment was excellent. Rainfall patterns in the area were very good all season long. Despite the higher rainfall conditions, minimal foliar diseases were observed here and we had perfect weed control. This crop had very little stress and the yields reflect that. Average yield for the early-season test was 213.6 bu. per acre and the full-season test averaged 211.6 bu. per acre.

Columbus – The corn from this test site was harvested as high-moisture for feedlot consumption. Excellent stand and very little lodging was observed. A wet spring and early summer conditions promoted early growth. Gray leaf spot was a problem throughout the testing area. Stratego was applied to minimize yield impact. Final yields for this test site averaged 220.8 bu. per acre for the early-season test and 212.5 bu. per acre for the full-season test.

West Point – Weather conditions at this site were ideal all season with abundant timely rainfalls and ideal temperatures. Planting conditions were ideal at this no-till site, giving us a good uniform stand throughout the test area. No issues with disease or weed control were observed here. Yields were quite uniform and consistent here as well. The average yield for the early test was 192.6 bu. per acre and the average yield for the full-season test was 211.6 bu. per acre.

Hooper – This trial had an excellent stand, perfect weed control and little foliar disease pressure. There was abundant rainfall in the spring, resulting in saturated soils and probably some nitrogen loss. Heavy winds a week before harvest resulted in significant lodging. The average yield here was 179 bu. per acre in the early-season test with a slight rise to 180.3 bu. per acre for the full-season test.

Test Site Description						Test Average			Yield Check Comparison (Hoegemeyer HPT 8102^)		
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	Stand (per A)	Lodging (%)	Yield (Bu/A)	Early Test	Full Test	*Difference
Columbus	silt loam	minimum	Corn, 2+ yr	200	4/28	30,400	1.2	216.7	239.4	229.6	9.8
Hartington	silty clay loam	no-till	Soybean	135	5/3	25,300	0.5	175.3	175.0	170.1	4.9
Hooper	silty clay loam	no-till	Soybean	150	4/29	24,847	6.1	179.7	180.3	174.5	5.8
Laurel	silty clay loam	no-till	Soybean	150	5/3	25,500	1.1	212.6	227.3	209.6	17.7
Oakland	silty clay loam	no-till	Soybean	140	4/29	30,400	1.0	204.6	210.7	197.9	12.8
West Point	silty clay loam	no-till	Soybean	150	4/29	25,600	2.3	202.1	198.3	199.8	-1.5

*Apply the difference to brands in the full-season test before comparing them to brands in the early-season test.

Photo courtesy of Mark Querna

Preparation for F.I.R.S.T. plot planting. Seed from participating companies is stored on shelves at the far end of Mark Querna's farm shop. Two employees carefully prepare each corn hybrid or soybean variety's seed for test plot planting. Seed is counted for planting in individual rows. Each envelope contains seed for one planter box. Those envelopes are then arranged in boxes in planting order so the person riding the planter grabs the seed packet intended for the next plot and empties the contents into the planter row units. Accuracy is vital in all steps of the process.

continued from page 7

they were ready to harvest at the same time," Schleuning says. "We had a lot of variability across regions all year, but this was one of the driest, nicest and fastest harvests I can remember."

Schleuning says that weather varied widely across his plots. In the Michigan Thumb region, for example, he had some plots that received adequate rainfall and some that were moisture-deprived. "In those plots, you can make very good cross-comparisons [of individual hybrids] and see how they did across all areas. It's a great way to check the consistency of performance," Schleuning adds.

Many areas of the F.I.R.S.T. testing regions saw above-average rainfall. "Southern Iowa just got hammered," Meinsma says. "One of my farmers told me that they were 200% over average rainfall. We had water standing in fields that never had problems before. We had fields that were cross-tiled and still had water standing."

Tim Dozier, F.I.R.S.T. manager for Nebraska, calculates the state averaged 20 bu. to 25 bu. per acre below normal due to weather. "It was disappointing to see all the rainfall we had after we had really good planting. We hit the rapid growth period in June, and that's when we started getting multiple 3" to 4" rainfalls. Yields were hurt by too much moisture." Dozier also saw high winds in areas. Du Bois, Neb., saw 40–50 mph winds in June, and he experienced up to 70 mph winds at the Gretna and Cook locations. Du Bois withstood the June winds without lodging, but other areas weren't so lucky.

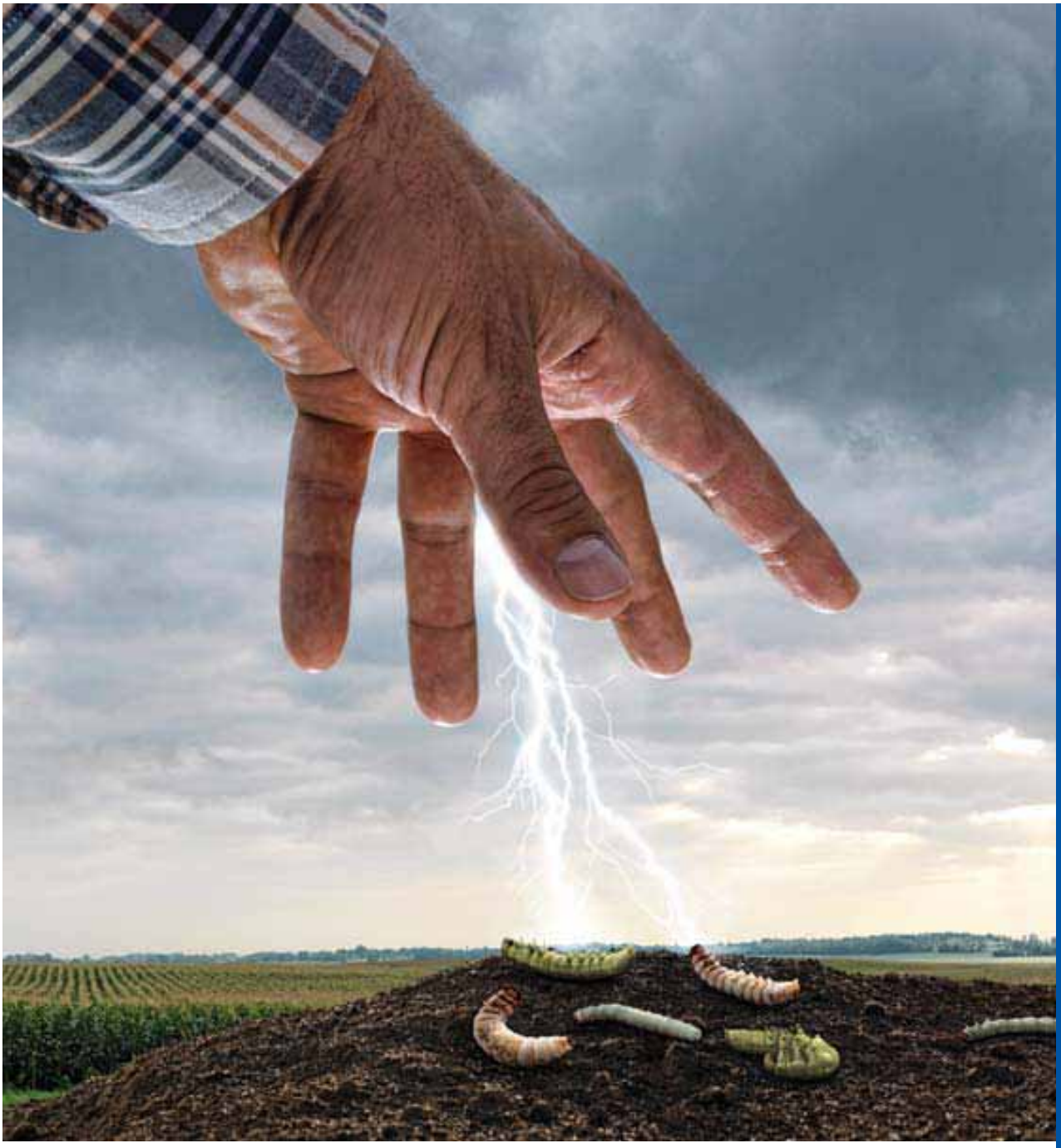
Mark Querna, F.I.R.S.T. manager for Minnesota, says winds of up to 50 mph in late October caused some hybrids to break off below the ear while they were freshly exposed during plot harvest. More than adequate moisture and warm temperatures meant roots didn't have to search for water all season and resulted in weaker stalks across multiple plots. "I noticed in corn that the stalks were thin and weak looking; these thin stalks were a result of rapid growth and shallow roots," Querna says.

In contrast, last year tough stalks were a necessity and a blessing for some South Dakota growers. Some spring planting was delayed in that area as some farmers were still harvesting their 2009 corn crop, Tollefson says. "Their crop was 30% [moisture] last fall. Those who had to wait [to harvest] actually did pretty well. It stood well. It dried down well and it harvested well." This year's harvest was the opposite; it went much faster than normal and conditions were favorable across all F.I.R.S.T. testing areas.

"Corn harvesting conditions were dry to the point that most farmers in our area didn't have to use dryers this year," Jason Beyers says. "We picked a lot of 33% corn last year. This year, most of the corn moisture tested right at 15%."

In areas where you wouldn't have expected problems, stressed plants reacted in unexpected ways this year. Eric Beyers comments that in his Virden, Ill., plot, yields dropped significantly partway through harvesting of a third replication. While trying to solve the mystery with the local F.I.R.S.T. farmer, he found out that it was a phenomenon that was happening in other fields too. The yield monitor showed sudden drop-offs in yield in various places. They finally surmised that it was due to compaction issues or a soil type difference.

"The physiological characteristics of the plant were the same, but it was showing up in the yield," Beyers says. "With combine monitors, GPS and good soil tests, you can really tell what's going on in the field. If you look at the data, think about what's going on and let it soak in, with just a little common sense even the really variable tests will give you great clues as to what is happening."



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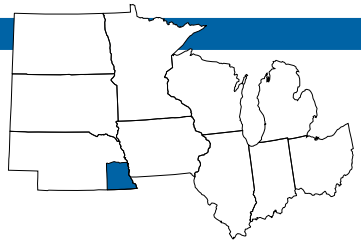
Tim Dozier, FIRST Manager



Stats:
Yield Range: 117.7 to 247.6 bu. per acre
Yield Average: 187.2 bu. per acre
Top $ Per Acre: $1230.30

Field Notes: Nebraska Southeast

Beatrice – This test location was planted on April 20 and looked great all season long through harvest on Sept. 29. Excellent seedling establishment was consistent through harvest. Rainfall was ample and timely throughout the growing season. Weather temperature patterns provided normal daytime temperatures with slightly above-average nighttime temperatures. There were no problems with weed control and very little disease pressure was observed. This corn crop had very good growing conditions and rewarded us with a great-standing, high-yielding, easy-to-harvest crop. The average yield here was 175.1 bu. per acre.

Cook – Despite being our last-planted site in the region (May 5), this non-irrigated site got off to a very nice start. It seemed that nearly every seed germinated. Excellent full-season moisture delivered great yields for this geography. The crop had no issues with weed or disease control to contend with. Daytime temperatures were mostly below 90°F while evening temperatures were slightly above average. This crop was standing very well at fall, making for an easy and enjoyable harvest. Final yields showed an average of 146.2 bu. per acre.

Burr – This was an excellent test plot. The crop got off to a great start with excellent seedling establishment. Early-season rainfall was borderline excessive without causing negative impact on the plant health. There was no evidence of disease issues at this location. Weed control was perfect all season. The crop had no stress to speak of because of normal temperatures. The early Sept. 20 harvest date makes this location good for assessing hybrid differences in grain moisture. This is ideal for identifying products that are best suited for early grain harvest. The final stand values exceeded seeding rate is due in part to smaller seed size. Yields here averaged 171.6 bu. per acre.

Seward – Growing conditions at this site in Seward County were nearly perfect all season. The crop was planted timely (April 28) and received abundant rainfall; plus, an additional five inches of supplemental irrigation was applied. Spring conditions were ideal for uniform emergence of nearly every seed at this no-till site. Headline fungicide was applied at 50% brown silk, providing very good disease control. No weed-control or lodging issues were observed here. The result of this nearly perfect growing season made this our top-yielding location in

Photo courtesy of Jason Beyers

This commercial planter is modified for an individual to dump seed from prearranged envelopes into wells that transfer seed into planting units. Special meter inserts reduce seed well volume to minimize seed need, and speed meter priming and clean out between plots.

Farmer's Independent Research of Seed Technologies

ALL SEASON TEST 107 - 116 Day CRM — **Top 30 of 45 tested**

Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Beatrice	Burr	Cook	Du Bois	Gretna**	Seward
Producers	7414VT3	VT3	P250	**197.8**	16.3	0.8	$784.8	2	179.2	180.3	145.6	**203.4**	**247.6**	230.4
LG Seeds	LG2620VT3	VT3	P250	**197.5**	16.4	1.3	$783.1	3	191.3	166.0	**167.9**	**212.1**	213.1	234.7
Kruger	K-6213VT3	VT3	P250	**197.3**	15.7	0.8	$785.7	1	**193.8**	178.7	157.9	192.3	214.0	**246.8**
NuTech	G2 5H-515^	HX,RR2	C250	**196.9**	16.2	1.0	$781.7	6	189.2	180.6	135.7	**208.4**	228.3	239.0
Mycogen	2V732	VT3	C250	196.2	15.6	1.0	$781.9	4	177.6	**195.6**	157.3	197.9	217.9	230.7
Kruger	K-1211RR	RR2	P250	196.2	15.6	2.3	$781.9	5	184.4	183.2	**164.3**	186.3	227.3	231.6
Merschman	Stine M-911C-10	VT3	P500	195.6	15.7	1.3	$779.0	7	180.2	190.3	152.6	197.5	216.2	237.0
LG Seeds	LG2555VT3	VT3	P250	195.2	15.6	1.8	$777.9	8	188.9	173.1	142.4	**202.0**	230.3	234.2
Stine	9806VT3Pro	VT3P	P250	194.8	17.9	0.8	$765.1	14	190.8	175.5	148.7	201.0	**235.3**	217.2
Producers	7394VT3	VT3	P250	194.1	16.2	0.8	$770.6	12	190.3	185.1	142.6	191.6	231.3	223.7
LG Seeds	LG2641VT3	VT3	P250	193.9	16.0	1.4	$770.8	11	176.5	150.7	146.6	**213.8**	**239.8**	236.2
Kruger	K-6411VT3	VT3	C250	193.8	15.6	1.2	$772.3	10	179.4	175.5	150.9	183.0	230.4	**243.6**
Dekalb	DKC61-69 GC	VT3	P250	193.7	15.1	0.8	$774.3	9	181.6	186.1	149.2	187.2	219.6	238.2
Taylor	T1940	VT3	P250	192.5	15.6	0.8	$767.1	13	169.2	**194.4**	146.3	192.9	213.2	238.7
AgriGold	A6553VT3	VT3	P250	192.5	16.4	0.8	$763.3	15	183.5	172.7	158.0	197.3	212.2	231.4
Producers	6814VT3	VT3	P250	191.2	15.8	1.3	$761.0	18	178.6	181.5	152.6	189.0	220.0	225.2
Kruger	K-7614	VT3P	P250	191.1	16.1	0.8	$759.1	19	170.8	166.6	152.3	190.3	220.2	**246.5**
Kruger	K-6010VT3	VT3	C250	190.9	15.1	0.8	$763.1	16	181.2	176.3	**166.8**	195.1	196.5	229.5
AgriGold	A6458VT3	VT3	P250	190.6	14.9	1.2	$762.9	17	174.6	158.9	137.7	201.0	**244.2**	227.0
AgriGold	A6533VT3	VT3	P250	190.6	16.5	0.8	$755.3	20	**192.6**	158.7	144.4	200.9	211.9	235.2
Stine	9726VT3Pro	VT3P	P250	189.3	17.6	1.5	$744.9	27	172.5	163.8	132.0	200.1	**234.6**	232.9
Taylor	8820 DP	VT3	P250	189.2	15.8	1.0	$753.0	22	171.1	182.4	146.7	174.9	215.7	**244.1**
Fielders Choice	NG6789	VT3	P250	188.3	16.3	1.0	$747.1	25	177.0	177.0	153.0	186.5	202.4	233.7
Producers	7014VT3	VT3	P250	188.2	14.9	0.8	$753.3	21	183.4	169.6	146.4	188.7	214.6	226.3
AgriGold	A6476VT3	VT3	P250	187.9	15.7	0.8	$748.3	24	180.2	181.1	153.4	197.4	193.0	222.4
Fielders Choice	NG6726	VT3	P250	187.9	16.0	1.8	$746.9	26	165.7	173.6	144.1	183.7	231.5	228.7
Fielders Choice	NG6723	VT3	P250	187.8	15.4	0.8	$749.3	23	176.7	168.8	145.8	185.9	223.2	226.3
Fielders Choice	NG6893	VT3	P250	186.0	17.5	1.0	$732.4	29	170.9	165.4	151.8	190.3	220.6	217.0
Taylor	9913 TP	VT3	P250	185.9	16.4	1.3	$737.1	28	174.3	159.7	143.1	183.8	228.7	225.7
NuTech	G2 5X-215^	HXT,RR2	C250	184.7	16.7	0.8	$731.0	30	159.3	174.2	**162.2**	176.5	217.3	218.7
Test Average =				**187.2**	**15.9**	**1.1**	**$744.4**		**175.1**	**171.6**	**146.2**	**188.2**	**215.8**	**226.2**
LSD (0.10) =				9.7	0.7	0.6			16.3	20.6	13.6	13.7	16.5	16.2

** = 2 replications

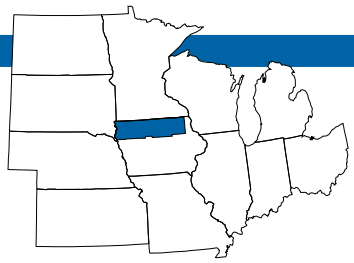
southeast Nebraska with a yield average of 226.2 bu. per acre and a top-yielding hybrid producing 246.8 bu. per acre.

Gretna – Excessive rainfall in spring and early summer resulted in much standing water and loss of nitrogen at our only site using tillage. The field recovered fairly well except for the lower areas, where yields were hurt. Final stand was pretty good, though there was some lodging observed in a few products. Weed control here was outstanding all season. The excessive spring rainfall caused excessive crop damage that generated variable yields in one replication of this test. This replication was eliminated to create statistically valid, reliable yield results. The final yield average for this site was 215.8 bu. per acre.

Test Site Description						Test Average		
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	Stand (per A)	Lodging (%)	Yield (Bu/A)
Beatrice	silty clay loam	no-till	Soybean	146	4/20	26,100	0.0	175.1
Burr	silty clay loam	no-till	Soybean	135	4/20	26,000	1.4	171.6
Cook	silty clay loam	no-till	Soybean	150	5/5	25,800	1.1	146.2
Du Bois	silty clay loam	no-till	Soybean	148	4/15	25,500	1.7	188.2
Gretna	silt loam	minimum	Soybean	165	4/20	31,300	1.4	215.8
Seward	silt loam	no-till	Soybean	160	4/28	31,600	1.0	226.2

Du Bois – This no-till test site was the first test planted in the region (April 15) and had very good stand establishment. Rainfall was abundant and timely during growing season. Strong winds and heavy rainfall at about the seven-leaf growth stage produced leaning plants and some eventual goose-necking. Fortunately, this did not translate to lodging or any harvest difficulties, as lodging scores came in relatively low. There were no problems with weeds or diseases at this location. Grain yield ranged from 158.1 bu. per acre to 213.8 bu. per acre with a yield average for this test of 188.2 bu. per acre.

Jason Beyers, FIRST Manager



Stats:
Yield Range: 58.1 to 222.7 bu. per acre
Yield Average: 176.7 bu. per acre
Top $ Per Acre: $849.80

Field Notes: Iowa North

Paullina – This location started off great until the second half of July. Over the next month it received over 7.5" of rain in two big rainfalls, causing some water stress in the field during pollination, as evidenced by tip dieback and short ears. The following weeks brought very warm weather with high nighttime temps that accelerated grain fill and resulted in some shallow kernels. With all the stress, the plant heights of most hybrids were highly variable as you went across the field. The ultra-early test yielded 169.8 bu. per acre.

Lu Verne – Over 19" of rain was reported near this site during June and July, possibly reducing nitrogen availability and making plant height variable. Any small amounts of compaction present in the plot area were easy to pick out as you worked your way across the plot. Midseason water stress and warm nights added their toll on grain fill and kernel depth. Some curled ear tips and tip dieback was observed as well as some moderate levels of gray leaf spot. There was little to no lodging present at the time of harvest. The 174.9 bu. per acre ultra-early test average yield was between the 159.0 bu. and 181.6 bu. per acre average yields for early- and full-season tests, respectively.

Emmetsburg – This site was a TRAIN WRECK! Early-season rainfall really hurt the emergence of most hybrids. Water pockets that have not been noted for years appeared in the plot area. This plot received two separate hailstorms. A June 25 storm stripped leaves as much as 35%. Another storm followed on July 18, adding insult to injury. As if that wasn't enough, some farm help accidently harvested off some areas of the plot test. Data has been rejected for this test as we have only two replications of poor data at best.

Mason City – This site had adequate rain from planting through the middle of July, when the rain backed off. There were some curled ear tips and tip dieback observed, indicating some stress during early kernel development. Kernel depth, however, was still good after another dose of much-needed rain in September. There were no known diseases present in this field. Any lodging noted was attributed to stalk lodging. Yield levels this year for this location were definitely not up to the potential of this soil type. Harvest showed an average yield of 181.5 bu. per acre.

Photo courtesy of Eric Beyers

Harvesting a soybean plot in Miles, Iowa. After cutting cross alleys between plot strips, this Gleaner K2 harvests all 7 rows, capturing grain weight and moisture while the operator scores lodging for the plot ahead.

Farmer's Independent Research of Seed Technologies

ULTRA-EARLY SEASON TEST 95 - 100 Day CRM — **Top 30 of 60 tested**

Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Emmetsburg#	Greene	Lu Verne	Mason City	Paullina	Saratoga
Cornelius	C329-3000GT	3000GT	C250	**198.4**	15.9	2.7	$786.5	1	194.6	**203.5**	185.1	194.5	186.1	**222.7**
AgriGold	A6276VT3	VT3	P250	**198.4**	16.4	1.6	$782.5	2	203.8	193.5	**195.7**	192.0	191.6	**219.2**
Channel	196-06VT3	VT3	P250	**195.9**	15.5	3.2	$779.7	3	174.6	**203.7**	188.0	**198.1**	179.8	209.9
Trelay	5VP688	VT3P	P250	**193.6**	15.0	4.5	$774.4	4	121.3	**207.5**	176.7	193.2	181.4	209.2
Great Lakes	4689G3VT3	VT3	P250	**192.7**	15.2	2.8	$769.3	5	185.5	**202.9**	182.1	182.7	**193.5**	202.4
LG Seeds	LG2469VT3	VT3	P250	**192.3**	15.4	2.5	$766.1	6	195.4	**207.3**	170.1	191.1	191.7	201.5
Trelay	5ST259	SS	P250	192.0	16.2	2.1	$758.8	8	169.2	195.1	181.1	**198.1**	**194.9**	190.7
Channel	199-55VT3	VT3	P250	191.4	15.4	1.8	$762.5	7	200.2	**201.7**	189.5	196.0	164.4	205.6
NuTech	G2 5H-696^	HX,RR2	C250	190.5	16.0	1.8	$754.4	9	164.6	**204.7**	191.5	196.3	173.0	187.2
Jung	7475VT3	VT3	P250	188.9	15.9	1.6	$748.8	10	174.3	198.6	**203.2**	178.4	154.2	210.3
Great Lakes	5090G3VT3	VT3	P250	188.4	16.4	1.6	$743.0	13	114.2	189.5	178.5	194.6	184.0	195.2
Renze	2181-3000GT	3000GT	C250	187.8	15.9	2.5	$744.4	11	116.3	**206.4**	179.7	177.7	159.8	**215.6**
NuTech	G2 5H-700^	HX,RR2	C250	187.2	15.8	5.2	$742.8	14	156.3	179.2	189.3	**203.8**	165.2	198.3
Renk	RK580VT3	VT3	P250	186.2	15.2	2.7	$743.3	12	191.0	179.0	179.6	192.3	187.6	192.5
Dekalb	DKC50-44 GC	VT3	P250	186.2	16.4	2.8	$734.4	20	178.8	189.1	179.4	187.3	171.4	203.9
Renze	7131RR2	RR2	C250	185.9	15.6	2.7	$739.1	16	115.8	195.1	171.0	176.8	187.9	198.7
Renze	7079RR2	RR2	C250	185.6	15.5	1.6	$738.7	17	122.3	192.3	175.8	180.6	170.9	208.6
AgriGold	A6220VT3Pro	VT3P	P250	185.2	14.9	3.0	$741.5	15	122.0	200.7	175.2	179.1	169.1	201.8
Jung	7452VT3	VT3	P250	185.2	15.8	1.8	$734.9	19	186.7	178.9	174.6	194.4	**201.7**	176.4
Dairyland	ST9799	VT3	C250	184.3	15.3	2.1	$735.0	18	163.7	194.6	175.4	191.2	183.6	176.5
LG Seeds	LG2478VT3Pro	VT3P	P250	183.2	15.4	1.6	$729.9	22	156.7	194.5	163.2	183.5	167.6	207.4
Channel	197-14VT3	VT3	P250	183.0	15.2	2.3	$730.5	21	115.3	183.8	189.7	179.9	170.4	191.0
Wyffels	W1941	VT3	P250	182.3	15.2	4.5	$727.7	23	190.8	162.7	**195.1**	183.2	178.8	191.6
Jung	7S488	SS	P250	182.1	16.1	3.5	$720.4	25	175.9	196.2	171.7	177.6	170.2	194.8
Viking	A61-00R	RR2	C250	182.1	16.3	2.5	$718.9	26	120.6	182.4	172.6	181.6	181.5	192.4
Gold Country	96-20	VT3P	P250	182.0	15.2	2.5	$726.5	24	187.3	180.8	175.8	**208.3**	153.3	191.6
Trelay	4VP726	VT3P	P250	181.1	15.8	2.5	$718.6	27	58.1	190.3	179.8	176.8	165.8	192.6
NuTech	3T-401	VT3	C250	181.1	16.5	2.7	$713.5	30	129.8	168.4	181.0	195.5	155.4	205.1
Great Lakes	4840VT3PRO	VT3P	P250	179.7	15.5	2.3	$715.2	28	176.4	190.8	173.7	176.0	146.4	**211.7**
Dairyland	ST9395	VT3	C250	177.7	14.4	2.7	$715.1	29	153.3	189.0	171.5	168.5	174.3	185.0
Test Average =				**181.0**	**15.7**	**2.4**	**$718.8**		**155.5**	**184.5**	**174.9**	**181.5**	**169.8**	**194.0**
LSD (0.10) =				11.2	0.4	n.s.			60.7	16.9	19.1	15.2	22.0	16.4

= rejected results, not included in summary

Test Site Description						Test Average		
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	Stand (per A)	Lodging (%)	Yield (Bu/A)
Emmetsburg	silty clay loam	conventional	Corn, 2+ yr	160	4/21	34,400	1.5	155.5
Greene	loam	conventional	Soybean	150	4/27	34,500	5.8	184.5
Lu Verne	loam	minimum	Soybean	160	4/21	33,400	1.3	174.9
Mason City	silty clay loam	conventional	Corn, 2+ yr	180	4/29	34,400	2.0	181.5
Paullina	silty clay loam	conventional	Soybean	135	4/22	32,500	1.8	169.8
Saratoga	silt loam	minimum	Soybean	181	4/28	33,500	1.3	194.0

Greene – Emergence at this test location was good and even, and the plot had plenty of rainfall until the middle of August. This plot was located on a slight hillside facing the south sun, allowing heavier rainfalls to run off easier and resulting in slightly more drying and warming capabilities when the sun was out.

Ears here were pollinated well and had good kernel set. There was very little disease pressure visible at harvest and the corn was standing fairly well. Overall, this was a nice uniform plot. The average yield from the ultra-early test results harvested Sept. 28 were 184.5 bu. per acre.

Saratoga – This site had great weather all season long. Very low incidences of insect or disease pressure combined with timely rains gave this field what it needed for great yields. The kernels were set to the very tip of the ear and, despite an accelerated accumulation of GDUs through grain fill, kernel depth was average. Mark Christianson commented that the yield levels in the later-season hybrids in his area "were by far out-yielding the earlier-season hybrids this year." It should also be noted that he thought the soil type for the full-season test had a slight advantage this year over the location of the ultra-early and early tests.

Farmer's Independent Research of Seed Technologies

EARLY SEASON TEST 101 - 106 Day CRM — Top 30 of 60 tested

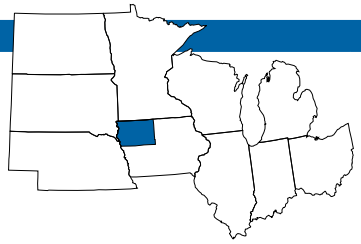
Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Emmetsburg#	Havelock	Lu Verne	Paullina	Remsen	Rinard
AgriGold	A6384VT3Pro	VT3P	P250	**200.4**	13.7	8.9	$812.0	1	178.0	**211.1**	**184.1**	**190.4**	214.8	201.4
Great Lakes	5643VT3PRO	VT3P	P250	**196.3**	13.9	2.5	$793.8	2	91.1	200.8	165.9	183.0	**229.0**	202.7
Dairyland	ST9006	VT3	P250	**196.0**	14.2	11.1	$790.3	5	173.5	**213.0**	173.5	179.5	217.6	196.2
LG Seeds	LG2529VT3Pro	VT3P	P250	**195.4**	13.8	6.7	$791.0	3	80.3	**209.1**	**179.8**	**190.3**	207.7	190.0
Channel	199-55VT3	VT3	P250	194.2	13.2	5.3	$790.8	4	188.7	**207.1**	169.4	**197.2**	213.7	183.5
Jung	7S555	SS	P250	192.4	13.7	5.0	$779.6	6	171.7	177.9	**186.3**	158.9	**233.4**	205.3
Jung	7610VT3	VT3P	P250	191.5	14.5	3.0	$769.8	9	185.2	202.0	158.6	183.4	212.1	201.5
Kruger	K-6006VT3	VT3	C250	190.9	14.7	7.7	$765.9	11	167.0	186.9	170.3	178.3	202.7	**216.1**
Wensman	W7433VT3	VT3	P250	190.8	13.9	12.1	$771.6	8	79.4	199.6	**189.7**	185.6	187.6	191.5
Titan Pro	1059	None	None	190.8	15.2	6.7	$761.7	14	166.3	187.0	158.3	**195.5**	**219.9**	193.3
Renk	RK682VT3	VT3	P250	190.7	14.5	3.4	$766.6	10	179.3	201.4	**186.3**	178.3	202.6	184.7
Dekalb	DKC52-59 GC	VT3	P250	190.6	13.0	5.4	$777.6	7	172.5	198.4	164.0	**192.4**	208.4	190.0
Dairyland	ST9206Q	HXT,RR2	C250	190.5	15.3	4.0	$759.7	15	164.2	183.7	161.5	**205.8**	**220.6**	180.8
NuTech	5N-705	3000GT	C250	190.3	14.4	2.3	$765.8	12	181.8	181.8	162.3	180.5	207.3	**219.4**
AgriGold	A6389VT3	VT3	P250	189.4	14.0	4.1	$765.2	13	144.7	181.5	163.0	177.5	218.7	206.5
LG Seeds	LG2510STX	SS	P250	187.2	14.1	9.3	$755.5	16	164.3	**210.3**	150.7	170.5	216.6	187.8
NuTech	3T-401A	VT3	C250	187.2	14.3	5.2	$754.0	17	182.1	184.0	164.1	168.2	219.0	200.6
Mycogen	2J597	SS	C250	187.1	14.8	11.5	$749.9	20	175.3	189.6	**186.5**	172.0	213.3	174.3
NuTech	G2 5H-502^	HX,RR2	C250	186.9	14.6	2.1	$750.6	19	156.1	174.0	167.2	171.1	194.8	**227.2**
Wyffels	W2681	VT3	P250	185.9	13.7	3.2	$753.3	18	183.5	172.2	167.5	180.6	**221.5**	187.9
Mycogen	2K592	VT3	C250	185.0	15.4	5.9	$737.0	28	175.1	184.4	151.9	**191.5**	208.7	188.7
Stine	9523VT3	VT3	P250	184.8	13.8	11.7	$748.1	21	176.4	188.2	166.1	177.1	204.2	188.6
LG Seeds	LG2527VT3	VT3	P250	184.3	14.1	4.0	$743.8	22	172.9	177.1	161.6	180.8	205.8	196.3
Kruger	K-7302	VT3P	P250	183.8	14.2	2.7	$741.1	25	158.5	157.5	162.1	**194.8**	202.3	202.2
Renk	RK698VT3	VT3	P250	183.6	14.1	4.2	$741.0	26	143.2	199.4	149.6	154.5	216.6	197.7
Dekalb	DKC51-86 GC	VT3P	P250	182.3	13.6	3.7	$739.4	27	173.5	184.5	159.3	179.3	198.6	189.7
Renk	RK670VT3	VT3	P250	182.1	13.1	3.8	$742.2	24	163.1	177.2	144.2	170.9	213.1	205.2
Kruger	K-6201VT3	VT3	P250	181.7	14.3	11.4	$731.9	29	166.9	197.0	142.6	176.5	210.8	181.6
Renze	2190HXT/LL/RR2	HXT,RR2	C250	181.5	14.2	1.8	$731.8	30	159.3	181.8	169.7	172.6	194.0	189.4
LG Seeds	LG2515HX	HX	P250	177.8	12.4	9.3	$729.7	31	172.9	178.9	140.8	183.9	197.8	187.5
Pioneer	35K04 CK	HXT,RR2	P250	186.5	15.5	3.2	$742.3	23	161.4	180.1	165.5	185.6	200.4	200.9
Test Average =				**181.3**	**14.1**	**6.0**	**$731.9**		**151.0**	**183.3**	**159.0**	**170.2**	**203.6**	**190.4**
LSD (0.10) =				13.4	0.5	6.5			85.9	20.8	16.8	20.1	15.9	19.9

FULL SEASON TEST 107 - 110 Day CRM — Top 30 of 48 tested

Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Emmetsburg#	Havelock	Lu Verne	Paullina	Remsen	Rinard
Dyna-Gro	V4993VT3	VT3	P250	**207.0**	14.4	2.5	$833.0	1	166.6	**214.6**	**209.4**	191.7	**244.0**	215.9
Channel	209-77VT3	VT3	P250	**204.8**	14.9	3.6	$820.0	2	132.8	**215.8**	**209.3**	**200.9**	**238.9**	**231.3**
Kruger	K-6408VT3	VT3	P250	**202.4**	15.0	2.6	$809.6	3	**175.9**	187.6	200.2	**210.7**	226.2	214.0
Kruger	K-6010VT3	VT3	C250	**201.8**	15.4	2.8	$804.0	4	158.3	194.8	**217.4**	**197.7**	232.3	210.3
Wyffels	W6871	VT3	P250	**198.3**	15.9	4.3	$786.1	5	157.7	206.6	193.3	**198.3**	231.0	203.1
NuTech	3T-110	VT3	C250	**197.8**	16.2	5.4	$781.7	7	135.7	205.6	194.2	194.4	**238.8**	218.0
Dekalb	DKC59-35 GC	VT3	P250	196.9	15.4	2.1	$784.4	6	150.8	188.1	198.8	**207.9**	223.6	212.2
Dekalb	DKC57-50 GC	VT3	P250	193.7	14.7	2.3	$777.1	8	141.7	190.4	194.2	194.3	233.9	207.6
Great Lakes	5939G3VT3	VT3	P250	193.6	15.0	5.2	$774.4	9	142.5	187.1	166.3	**199.6**	**244.2**	222.0
Wensman	W7473VT3	VT3	P250	193.4	15.0	7.0	$773.6	10	162.8	208.8	167.3	190.6	228.2	202.9
Wensman	W7562VT3	VT3	P250	192.1	15.4	11.2	$765.3	11	123.9	**217.0**	184.3	**195.7**	**239.4**	192.4
Dyna-Gro	57V40	VT3	P250	192.1	16.3	7.1	$758.4	14	147.1	**215.2**	187.2	184.1	222.0	197.1
Mycogen	2C641	RR2	C250	190.5	15.0	2.1	$762.0	12	156.6	194.8	178.8	177.0	224.3	211.4
AgriGold	A6458VT3	VT3	P250	189.8	14.8	4.3	$760.7	13	147.6	208.2	172.7	180.7	225.4	203.9
Wyffels	W6261	VT3	P250	187.6	15.9	4.6	$743.6	16	99.3	192.8	**206.4**	**200.0**	218.8	208.3
Channel	210-61VT3	VT3	P250	186.5	16.2	6.0	$737.0	19	122.0	202.2	**205.6**	156.6	230.6	202.1
Renze	7270RR2	RR2	C250	186.4	15.3	2.3	$743.4	17	132.4	197.1	180.7	184.0	218.9	205.0
LG Seeds	LG2529VT3Pro	VT3P	P250	186.2	13.6	5.6	$755.2	15	126.5	189.0	192.9	189.5	203.0	216.1
Renze	1300VT3	VT3	C250	185.7	15.6	4.5	$738.3	18	152.1	190.6	192.3	161.3	209.1	208.5
Stine	9528VT3Pro	VT3P	P250	185.7	16.9	2.0	$728.7	21	150.4	198.6	173.9	183.2	205.6	202.6
NuTech	5X-206A	HXT,RR2	C250	184.9	16.6	2.8	$727.8	22	150.4	175.8	182.6	169.3	208.4	222.9
Producers	7014VT3	VT3	P250	182.6	14.9	3.0	$731.1	20	150.8	201.7	160.1	146.9	206.0	**229.9**
AgriGold	A6476VT3	VT3	P250	182.6	16.1	1.8	$722.4	27	147.2	184.2	172.2	151.1	229.4	211.6
NuTech	1N-109	CB/LL/RW	C250	182.1	15.2	2.6	$726.9	23	151.9	189.5	186.4	166.1	208.5	189.9
NuTech	G2 5X-509^	HXT,RR2	C250	181.4	16.1	4.7	$717.6	30	83.2	201.6	193.1	168.4	**240.0**	201.9
Producers	6944VT3	VT3	P250	180.8	15.3	3.6	$721.0	28	149.2	198.3	182.3	144.7	209.2	201.3
LG Seeds	LG2549VT3	VT3	P250	180.5	14.7	2.7	$724.2	24	117.2	189.0	176.8	158.9	219.9	221.1
AgSource	5H-005A	HX,RR2	C250	179.6	14.4	2.1	$722.7	26	144.4	183.7	176.7	145.0	220.8	207.1
Renk	RK744VT3	VT3	P250	179.2	14.1	5.4	$723.3	25	100.8	195.9	180.7	185.4	225.8	186.7
NuTech	G2 5H-007^	HX,RR2	C250	179.1	14.7	2.1	$718.5	29	114.6	195.8	168.8	178.1	227.0	190.0
Pioneer	35K04 CK	HXT,RR2	P250	177.5	15.6	3.7	$705.7	36	124.6	185.4	171.5	181.2	201.2	201.0
Test Average =				**183.6**	**15.3**	**3.7**	**$732.0**		**131.6**	**188.8**	**181.6**	**176.3**	**216.3**	**205.7**
LSD (0.10) =				14.1	0.5	n.s.			44.1	20.4	19.5	19.3	17.8	19.1

= rejected results, not included in summary

Jason Beyers, FIRST Manager



Stats:
Yield Range: 69.4 to 244.2 bu. per acre
Yield Average: 179.8 bu. per acre
Top $ Per Acre: $946.50

Field Notes: Iowa Northwest

Paullina – Although this location started off great with wonderful weather through the middle of July, we received over 7.5" of rain in two huge storms during the next month. This massive rainfall caused some water stress in the field during pollination. The following weeks brought very warm weather with high nighttime temperatures, which accelerated grain fill and resulted in some shallow kernels. The early test yielded 170.2 bu. per acre and the full-season test yielded 176.3 bu. per acre.

Remsen – The Remsen test location proved to be a nice and uniform plot. There were little to no disease issues to mention on this plot, although there were several reports of Goss's wilt in other northwest Iowa farms this year. This plot is also located on a nice slope that provided adequate drainage for the bountiful rains experienced here. The early-season test provided an average yield of 203.6 bu. per acre.

Emmetsburg – This test plot was our train wreck site. It seemed as if anything that could go wrong, did. Two hailstorms hit this plot. The first one stripped leaves as much as 35% while the second caused more damage to the crop. To add to this misery, farm help accidently harvested off some of the plot. The data for this test has been rejected with only two replications of poor data at best.

Havelock – This test received over 15" of rainfall in June and July alone. It is suspected that some nitrogen loss reduced plant vigor and took the top end off of yields. Despite the wet midseason weather, the crops recovered reasonably well. There was little to no lodging observed. Early-season tests averaged a yield of 183.3 bu. per acre while our full-season test produced an average yield of 188.8 bu. per acre.

Lu Verne – This test site received over 19" of rain in June and July, possibly reducing nitrogen availability. The midseason water stresses and warm nights took their toll on grain fill and kernel depth. Some curled ear tips and tip dieback was observed. We also noted that there was a moderate level of gray leaf spot as well. There was little to no lodging to report at harvest. Early-season tests showed an average of 159 bu. per acre while full-season results were an average of 181.6 bu. per acre.

Rinard – This test saw timely rains all season long, supporting productive plant growth. The only issue to report was some stalk decomposition, which set in due to the very dry weather prior to harvest, and some snapping above the ears, which was prevalent though the field. The stalk decomposition caused some stalk lodging at the base of the plants, but overall this field performed well. Early-season tests showed an average yield of 190.4 bu. per acre and full-season production averaged 205.7 bu. per acre.

Test Site Description						Test Average			Yield Check Comparison (Pioneer 35K04)		
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	Stand (per A)	Lodging (%)	Yield (Bu/A)	Early Test	Full Test	*Difference
Emmetsburg	silty clay loam	conventional	Corn, 2+ yr	160	4/21	33,450	1.4	141.3	161.4	124.6	36.8
Havelock	silt loam	conventional	Soybean	191	4/20	34,100	1.1	186.1	180.1	185.4	-5.3
Lu Verne	loam	minimum	Soybean	160	4/21	32,600	1.2	170.3	165.5	171.5	-6.0
Paullina	silty clay loam	conventional	Soybean	135	4/22	32,600	2.5	173.3	185.6	181.2	4.4
Remsen	silty clay loam	conventional	Soybean	200	4/22	33,350	4.8	210.0	200.4	201.2	-0.8
Rinard	silty clay loam	conventional	Corn, 2+ yr	200	4/20	32,900	15.9	198.1	200.9	201.0	-0.1

*Apply the difference to brands in the full-season test before comparing them to brands in the early-season test.

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IOWA & NEBRASKA *2010 HARVEST CORN RESULTS*

Garst

BRAND	F.I.R.S.T. TRIAL LOCATION	YIELD RANK	YIELD (Bu/A)
85E98 - 3000GT	*Central City, IA*	1 *out of* 72	**202.4**[1] *Early Season*
85V88 - 3000GT	*Central City, IA*	4 *out of* 72	**200.6**[1] *Early Season*
83R38 - 3000GT	*Hooper, NE*	4 *out of* 36	**191.8**[1] *Full Season*

Check out our entire performance in the F.I.R.S.T trials featured in this publication

GoldenHarvest *SYNGENTA TRIALS*

BRAND	***OUTPERFORMS :***
H-8577 3000GT	Pioneer 35F44 by an avg of ***12.5*** bu/A in 13 IA locations[2]
H-9173 3000GT	All Pioneer products, 69% of the time, by an avg of ***5.8*** bu/A in 58 NE locations[3]
H-8672 3000GT	Pioneer 35F44 by an avg of ***5.6*** bu/A in 15 IA locations[2]
H-9377 GT/CB/LL	All Pioneer products, 73% of the time, by an avg of ***5.0*** bu/A in 37 NE locations[3]

SYNGENTA TRIALS

BRAND	***OUTPERFORMS :***
N61P - 3000GT	Pioneer P0916XR by an avg of ***12.6*** bu/A in 8 NE locations[3]
N68B - 3000GT	All Pioneer Products, 73% of the time, by an avg of ***7.8*** bu/A in 64 NE locations[3]
N71G - 3000GT	Pioneer 33W84 by an avg of ***6.4*** bu/A in 18 IA locations[2]
N49J - 3000GT	DeKalb DKC52-59 by an avg of ***3.5*** bu/A in 24 IA locations[2]

IOWA & NEBRASKA *2010 HARVEST SOYBEAN RESULTS*

Soybeans

OUTPERFORMS :

NK SOYBEANS

- All Asgrow products, 62% of the time, averaging ***69.7*** bu/A in 127 NE locations[4]
- All Pioneer products, 70% of the time, averaging ***65.3*** bu/A in 87 NE locations[4]
- All Competitors products, averaging ***62.5*** bu/A in 519 IA locations[4]
- All Asgrow products, averaging ***62.4*** bu/A in 390 IA locations[4]
- All Stine products, 65% of the time, averaging ***60.0*** bu/A in 86 IA locations[4]

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[1]F.I.R.S.T. trials, [2]2010 Syngenta Seeds Corn Trials - Heartland 10/26/2010 [3]2010 Syngenta Seeds Corn Trials - High Plains 10/29/2010 [4]2010 Syngenta Seeds Soybean Trials - Heartland 11/1/2010

CLASSIFICATION: PUBLIC

How to Select Seed

Profit potential is determined before equipment is readied and before precipitation falls. Strands of genetic code are all wrapped up in the mystery of a seed, coated with a seed treatment waiting in bags, boxes or bins to be selected, ordered and delivered. The first step to determining profit potential is selecting the right seed—the right seed for the soil type and conditions, the local insects, weed and disease pressure and, of course, weather conditions. Never mind that nearly all of these factors are only predictable widely varying degrees of accuracy.

KNOW YOUR DATA SOURCES

When the decision matters as much as seed selection does, data counts, and quality data counts more. The best place to go for data is your own on-farm trials, says Mark Christianson, who farms near Saratoga, Iowa. To have the most on-farm data possible, Christianson has participated in the F.I.R.S.T. trials for the past two years, and also runs his own plot trials on his farm. For 2010, his plot trials had 19 hybrids in addition to the 174 hybrids that were tested in F.I.R.S.T. trials at his location.

"I like to have two or three sources of data: one is F.I.R.S.T., another is my own plots, and I look at plots that other producers have done in the area," he says.

Ronnie Sloan, who has spent 14 years as a F.I.R.S.T. farm cooperator near Vandalia, Ill., agrees that independent data matters most.

"What seed companies put out is propaganda," he says. "They never have anything bad to say about their own products, which tells me how believable their data is. I like F.I.R.S.T. because it's independent and everything is replicated. Any particular number that shows up [in the Top 30] has been looked at 18 times."

F.I.R.S.T. performance summaries, which are published in these pages, have three replications per site. Corn sites have six locations per summary and soybeans have four, which means corn hybrids have been tested and brought to yield 18 times and soybean varieties have been tested 12 times per region. Companies often have the same number tested in multiple geographies, so checking other regional summaries gives an even better performance overview.

"My whole farm is basically a test plot," says Tom Walsh, a F.I.R.S.T. farmer near Litchfield, Minn. With a yield monitor, Walsh says, you can glean information off your entire farm. "With the price of corn the way it is, 10 bu. per acre could make you a lot of money," he adds.

All three farmers place the highest value on the information on what has been grown on their own farm. After that, they point out, F.I.R.S.T. plot data is the most trusted not only because it's independent, but also because F.I.R.S.T. uses real on-farm conditions and reports things like soil type, previous tillage, previous crop and units of nitrogen applied, which are not always reported in other trials.

"It's easier to position hybrids on my own farm when I can see what other plot conditions were when that number performed well," Walsh says.

CONSISTENCY IS KEY

Yield is the No. 1 consideration when selecting a hybrid, but a bin-busting yield at one location isn't good enough, Christianson points out. Good yields across multiple locations are required for him to pick a particular number for use on his farm.

"I look for consistency. A lot of my soil types are quite variable, so to have seeds that do well across a broad range of environments is important to me," Christianson says. That's the reason to look at everything you can, Sloan agrees.

"I look at every piece of data I can. I have stacks of it that I go through," Sloan says. "I'm looking at consistency: If there's anything that shows up in the Top 10 in several plots, it's a pretty good hybrid. If it shows up in every plot, it's really good. I go back and look at data from the last two to three years and see how that hybrid performed in other years too."

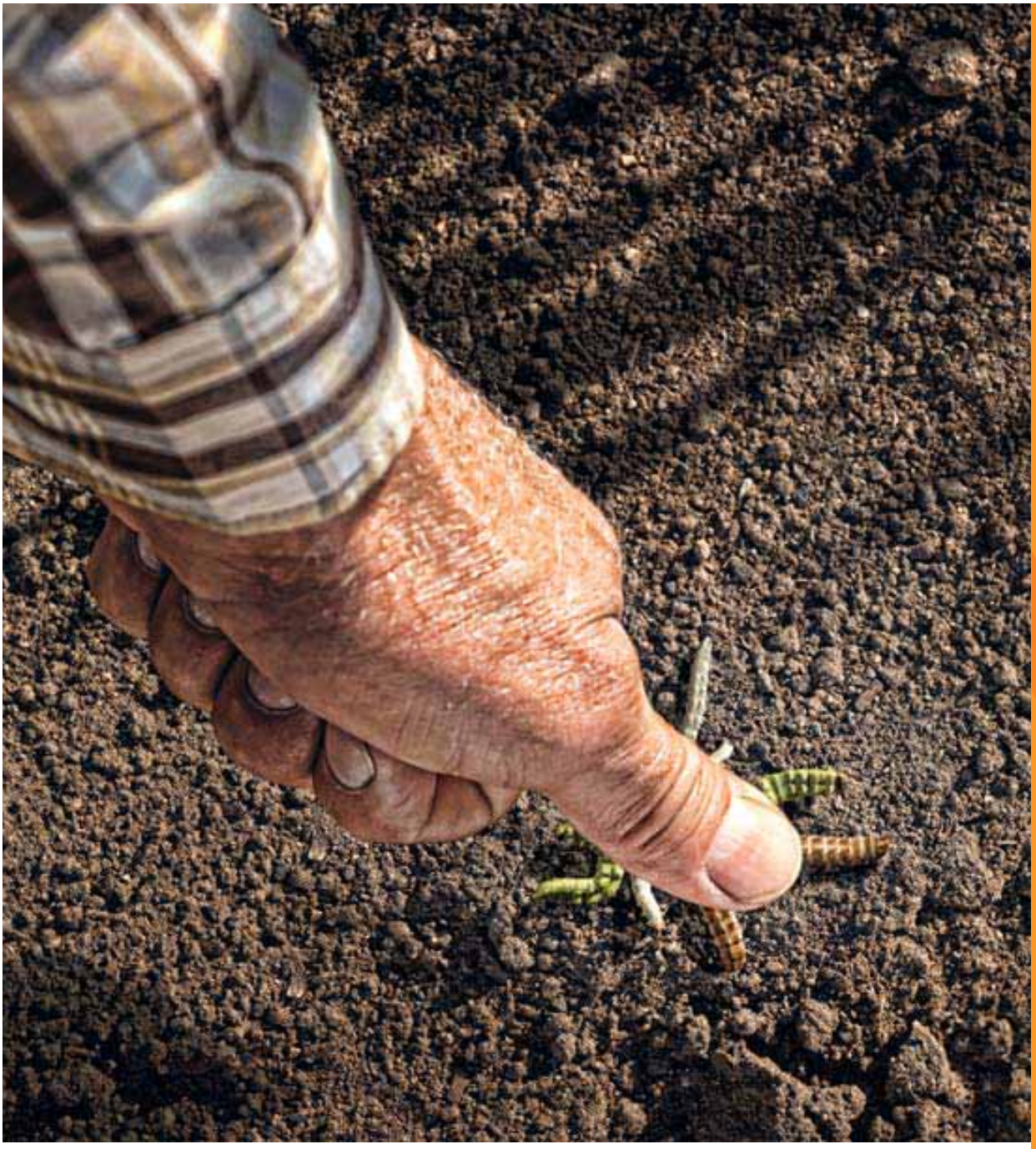
Sloan says that while a hybrid's life cycle is pretty short, probably only four or five years, having archived data can help you see which seeds are top performers in multiple years with varying weather patterns.

BRAND LOYALTY

Farmers point out that brand loyalty is too costly these days, and it's all about performance.

"I'm not nearly as brand loyal as I used to be," Christianson says. "I was almost 100% Pioneer at one time, but when they merged with DuPont 10 years ago, I had a hard time getting the seed numbers that I needed and I knew I needed a

continued on page 22



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continued from page 20

backup supply. That's when I started seriously looking at other genetics." Christianson says he now plants a Channel hybrid and has picked up some AgriGold to try for 2011.

"It's all about the performance of a particular product more than the company. I was fairly loyal to NK for soybeans up until this year. I had two varieties that didn't do that well, and I had some Pioneer beans that did gangbusters in my own fields, outyielding others by 7 or 8 bu. That's $70 to $80 an acre in income. That's why I spend so much time making my seed decisions."

Christianson points out that at $80 an acre, a bad seed decision can be a $6,400 wrong answer per field. At that pay rate, he says, it pays to pore over the data and pick the best seeds solely on their merits.

Sloan says that he's not really brand loyal either, although his corn hybrids have run pretty heavy on Monsanto. He plants some LG, Channel, AgriGold and Pioneer too. He says he's also watching Becks and DeKalb, which had some good numbers in plot trials this year. Sloan says he contracts nearly 100% of his soybeans to raise seed for Monsanto, so the decision on what to plant in those acres is already made.

STANDABILITY

After yield, standability was the most significant trait in corn hybrid selection. Poor standability is literally throwing money on the ground and it's a factor to watch, Sloan says.

"I look at the yield, but I also look at the standability," he says. "I look at how did it stand, how did it emerge, how did it do at harvest, what was the final stand and what was the moisture. I don't want a hybrid that yields great but lodges."

OTHER FACTORS

Other traits are as variable as the farms they're on. Most of the hybrids planted on these growers' farms followed the pattern found in the charts to the right, where nearly all of them were glyphosate-tolerant and the vast majority had some form of Bt trait.

SOYBEANS

For soybeans, all three farmers mentioned they planted all glyphosate-tolerant varieties this year. The No. 1 thing that Walsh says he needs to look at, in conjunction with yield, is disease resistance.

"I plant a more defensive soybean because of the kind of soils that I have," Walsh says. "Yield is still important, but I need a cyst nematode resistance package on all of my fields. I have a lot of high pH soils and I need something that will do well under iron chlorosis, and I look for a shorter bean because of white mold concerns. I also like to have the gene for Phytophthora resistance." Without those traits, Walsh says, high yields won't happen on his farm due to disease pressure. He eliminates soybean varieties from contention if they don't have the right disease resistance and then looks at yield numbers to determine his final choices.

WHEN TO BUY

Just before Thanksgiving, Walsh, Sloan and Christianson said they had all or nearly all their seed purchased for the following year. All three said the decisions were made because they had so much data from running plot trials on their own farms, as well as participating in F.I.R.S.T., and with early purchasing discounts, they had made their selections for pricing reasons too.

"I'm concerned about the availability of the newer numbers, and that's another reason I buy early," Walsh says. "One company called me and told me that it might run short [on a particular hybrid]. And that variety turned out very well. If you want the right numbers, ordering early is a good idea."

Key Corn Technologies Tested

	(% of entries containing traits indicated)		
	2010	2009	2008
Conventional	1.0	1.2	0.9
Glyphosate	98.0	94.2	88.7
LibertyLink	32.4	19.1	9.7
Corn Borer	94.2	96.2	95.5
Rootworm	88.8	90.4	86.6
Triple Stack*	88.2	89.0	79.7

Triple stack = CB + RW + any herbicide tolerant trait

Key Corn Insect Technologies Tested

	(% of entries)		
	2010	2009	2008
YGVT3	50.4	74.7	72.3
VT3P	11.3	—	—
SS	9.5	—	—
3000GT	9.4	3.8	0.4
HXT, RR2	7.9	8.6	2.0
HX, RR	3.9	2.1	2.1

— items not available or not tested

HOW TO DECIDE

There are a multitude of factors that will impact your seed buying decisions, but yield weighted with the traits necessary to do well in an individual farmer's field conditions are the right way to go.

"With F.I.R.S.T. trials, or any trials for that matter, you need to match as many factors as you can to the way you do things on your farm," Walsh says. "If your soil type is like the soil from a particular plot, or if you have similar tillage practices, you should weigh those results more heavily. All the factors can influence how a hybrid does, and they're all very important."

Farmer's Independent Research of Seed Technologies

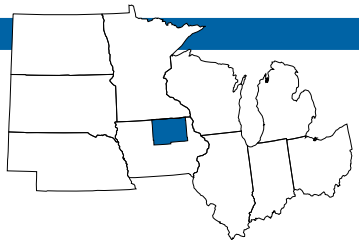
EARLY SEASON TEST 101 - 106 Day CRM — Top 30 of 66 tested

Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Greene	Iowa Falls	Mason City	Oelwein	Saratoga	Waterloo
Great Lakes	5643VT3PRO	VT3P	P250	**213.4**	20.3	6.4	$808.4	1	**234.7**	**238.1**	199.3	189.8	211.5	206.7
Jung	7S555	SS	P250	**212.6**	20.7	5.6	$801.9	2	**222.7**	**207.6**	198.0	**210.5**	**222.4**	**214.2**
Gold Country	101-99	SS	P250	**212.0**	20.8	4.8	$798.8	3	**228.4**	194.9	**209.2**	**203.9**	220.9	**214.9**
Dairyland	ST9006	VT3	P250	**205.6**	20.6	11.1	$776.3	5	217.7	**206.6**	199.8	194.4	211.5	203.7
Jung	7610VT3	VT3P	P250	**205.0**	21.3	4.2	$768.3	9	215.9	196.1	191.2	**209.5**	212.7	204.5
NuTech	3T-401A	VT3	C250	**204.5**	20.1	4.5	$776.3	4	203.2	202.8	193.8	197.8	**225.9**	203.5
Stine	9523VT3	VT3	P250	**204.3**	20.4	5.4	$773.1	7	214.7	**207.8**	191.4	**202.4**	210.3	199.0
Cornelius	C339VT3	VT3	C250	**203.9**	20.4	4.6	$771.6	8	214.9	**227.2**	180.0	181.8	217.0	202.5
LG Seeds	LG2529VT3Pro	VT3P	P250	**203.7**	20.0	5.8	$774.1	6	216.5	194.1	199.8	188.8	211.5	**211.3**
Cornelius	C447VT3	VT3	P250	**202.7**	20.3	8.6	$767.8	10	**226.0**	189.7	**208.5**	194.7	206.3	191.0
Mycogen	2J597	SS	C250	**202.0**	20.9	4.6	$760.3	13	212.4	198.3	190.2	200.4	215.1	195.7
Trelay	6ST576	SS	P250	201.4	20.8	7.4	$758.9	14	**221.2**	172.3	186.0	194.7	**224.9**	**209.5**
Cornelius	C319VT3	VT3	P250	200.0	19.8	6.3	$761.6	12	200.3	190.9	194.3	196.3	211.3	206.8
Renze	1219VT3	VT3	C250	199.9	20.1	7.4	$758.8	15	210.8	184.2	199.4	175.8	215.3	**213.7**
AgriGold	A6389VT3	VT3	P250	199.3	20.5	6.3	$753.4	16	204.6	183.8	**204.5**	185.1	217.9	199.9
Channel	199-55VT3	VT3	P250	198.7	19.1	3.6	$762.2	11	211.9	180.9	193.7	179.7	**228.9**	197.1
LG Seeds	LG2532VT3	VT3	P250	197.0	20.3	8.6	$746.2	18	201.9	191.3	198.2	184.6	215.0	191.1
FS Seeds	FS56SV3	VT3	P250	197.0	20.9	6.9	$741.5	19	210.4	199.4	189.9	192.9	201.0	188.5
NuTech	G2 5X-905^	HXT,RR2	C250	195.8	20.7	4.1	$738.6	21	197.2	194.5	180.1	178.7	221.1	203.3
Titan Pro	80A01GL	3000GT	C250	195.4	20.5	3.6	$738.6	20	208.8	196.3	172.5	177.9	211.7	204.9
LG Seeds	LG2525RR2	RR2	P250	194.9	20.6	4.2	$735.9	22	199.9	198.2	176.9	175.3	**224.6**	194.2
Trelay	5VP688	VT3P	P250	193.8	18.5	5.3	$748.1	17	203.3	191.0	183.5	199.2	202.0	183.7
Wyffels	W2681	VT3	P250	193.6	20.1	4.1	$734.9	23	209.2	175.3	182.3	189.9	200.4	204.5
NuTech	G2 5H-404^	HX,RR2	C250	193.2	20.6	5.0	$729.5	26	209.0	195.6	184.6	192.2	196.6	180.9
FS Seeds	FS52SV3	VT3	P250	193.0	20.2	6.0	$731.9	24	183.4	**210.7**	180.2	183.9	214.0	185.5
AgSource	5N-804A	3000GT	C250	192.3	20.3	3.5	$728.4	27	202.6	201.2	171.5	194.3	188.1	196.3
Trelay	6VT154	VT3	P250	192.2	20.3	4.2	$728.1	28	192.7	192.1	196.2	187.1	198.6	186.2
AgSource	3T-603A	VT3	C250	192.0	20.8	11.0	$723.5	30	207.1	167.8	172.0	199.2	204.4	201.6
Gold Country	101-01	VT3	P250	191.9	19.8	5.8	$730.8	25	197.1	187.8	197.6	179.8	199.3	189.9
AgriGold	A6276VT3	VT3	P250	191.2	20.0	5.9	$726.6	29	206.6	143.5	188.3	179.6	**223.7**	205.7
Pioneer	35K04 CK	HXT,RR2	P250	190.6	21.3	7.1	$714.4	42	200.2	161.7	188.5	192.9	199.4	200.8
Test Average =				**191.7**	**20.4**	**6.1**	**$725.6**		**203.9**	**181.3**	**183.1**	**184.1**	**204.3**	**194.7**
LSD (0.10) =				9.9	0.5	4.5			14.2	23.0	18.3	17.3	17.9	14.3

FULL SEASON TEST 107 - 110 Day CRM — Top 30 of 48 tested

Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Greene	Iowa Falls	Mason City	Oelwein	Saratoga	Waterloo
Gold Country	110-35	VT3	P250	**216.3**	22.5	5.2	$800.3	1	**214.7**	187.4	**228.1**	**197.6**	**250.1**	**219.8**
Dyna-Gro	57V40	VT3	P250	**213.3**	23.6	5.1	$779.8	3	**216.2**	**227.3**	**212.7**	185.3	234.0	204.5
Channel	209-77VT3	VT3	P250	**212.1**	22.0	5.6	$789.0	2	**236.5**	171.2	**209.9**	192.2	**245.9**	**216.7**
Kruger	K-6010VT3	VT3	C250	**210.8**	22.6	5.2	$779.1	4	**218.8**	174.1	**215.5**	196.1	**251.8**	208.5
Wyffels	W6871	VT3	P250	**210.3**	23.6	5.6	$768.9	6	**210.4**	172.7	**207.5**	**203.9**	**259.3**	208.2
Channel	210-61VT3	VT3	P250	**207.5**	24.0	4.6	$755.3	9	179.7	**206.7**	200.1	**199.0**	**244.8**	**214.6**
Channel	209-19VT3	VT3	P250	**207.1**	21.8	21.6	$772.1	5	208.4	190.4	196.1	**201.1**	233.5	**212.9**
NuTech	G2 5X-509^	HXT,RR2	C250	**206.6**	23.1	3.3	$759.5	8	**208.8**	**215.0**	198.3	193.8	226.0	197.8
AgriGold	A6384VT3Pro	VT3P	P250	201.6	20.6	7.2	$761.2	7	194.4	**215.2**	179.4	173.4	234.2	**213.1**
Renze	7270RR2	RR2	C250	200.5	21.6	5.3	$749.1	10	**208.7**	189.0	203.3	170.8	235.1	196.3
Wyffels	W6261	VT3	P250	200.5	23.0	6.8	$737.8	13	173.8	**204.1**	**206.4**	183.1	226.1	209.5
Dyna-Gro	V4993VT3	VT3	P250	200.4	21.7	4.5	$747.9	11	181.7	180.8	**205.0**	187.5	**241.9**	205.4
Kruger	K-6408VT3	VT3	P250	200.0	22.1	3.6	$743.2	12	186.0	196.2	199.6	172.7	236.4	209.0
Dairyland	ST9410	VT3	C250	198.1	23.1	6.0	$728.2	15	205.2	146.6	193.0	193.0	234.5	**216.5**
AgriGold	A6458VT3	VT3	P250	198.0	22.8	8.6	$730.2	14	193.2	172.0	178.5	**207.7**	230.9	205.6
LG Seeds	LG2549VT3	VT3	P250	197.9	23.2	8.3	$726.7	16	194.0	186.9	186.6	185.7	228.7	205.5
Wyffels	W7071	VT3	P250	197.5	24.0	4.5	$718.9	17	195.9	**209.9**	170.7	190.7	212.8	204.8
LG Seeds	LG2555VT3	VT3	P250	196.1	23.5	10.9	$717.7	19	**217.9**	**199.1**	164.8	188.1	215.6	190.8
NuTech	G2 5H-608^	HX,RR2	C250	193.5	22.5	3.8	$716.0	20	174.9	180.5	203.4	177.4	221.8	203.1
Mycogen	2C641	RR2	C250	192.1	21.6	4.0	$717.7	18	191.5	169.2	188.5	173.5	**238.3**	191.8
Great Lakes	5939G3VT3	VT3	P250	191.6	23.1	5.2	$704.3	25	193.7	183.6	163.8	186.5	228.0	193.7
NuTech	3A-406A	GT	C250	189.7	21.0	4.1	$713.3	21	171.3	163.0	177.7	189.9	**240.0**	196.4
Stine	9528VT3Pro	VT3P	P250	189.6	24.7	3.3	$684.8	31	**211.8**	150.7	179.4	179.2	218.4	198.1
FS Seeds	FS57SV3	VT3	P250	188.3	20.9	5.3	$708.8	23	169.6	180.4	191.1	165.0	223.8	199.6
LG Seeds	LG2547VT3	VT3	P250	187.8	22.8	5.0	$692.6	28	190.4	176.3	176.0	171.7	213.9	198.5
NuTech	1N-109	CB/LL/RW	C250	186.9	21.4	7.8	$699.8	26	169.9	182.3	168.5	177.9	228.3	194.2
Stine	9531VT3Pro	VT3P	P250	186.8	22.6	5.6	$690.4	29	151.5	181.8	194.4	172.4	218.4	202.3
FS Seeds	FS60MV4	VT3P	P250	185.8	21.8	8.5	$692.7	27	169.9	167.8	177.8	184.4	216.8	198.3
Renze	1300VT3	VT3	C250	185.5	22.7	10.6	$684.9	30	178.5	165.2	192.7	166.9	213.0	196.9
Dekalb	DKC52-59 GC	VT3	P250	184.7	19.3	4.0	$707.0	24	201.6	147.2	190.9	181.2	198.2	189.2
Pioneer	35K04 CK	HXT,RR2	P250	189.5	21.4	9.1	$709.5	22	202.7	162.6	183.2	185.2	210.1	193.4
Test Average =				**190.6**	**22.3**	**6.4**	**$706.2**		**188.3**	**174.4**	**184.1**	**180.6**	**219.7**	**197.6**
LSD (0.10) =				11.9	0.6	5.1			20.2	24.1	20.0	16.4	18.0	15.4

Jason Beyers, FIRST Manager



Stats:
Yield Range: 139.8 to 259.3bu. per acre
Yield Average: 191.3 bu. per acre
Top $ Per Acre: $938.70

Field Notes: Iowa North Central

Oelwein – This Fayette County test location had excellent stands with good, even emergence, getting this plot off to a great start. Kevin Lockard reported a large amount of rootworm pressure in fields surrounding the plot. The entire plot area was standing very well but the stalk rots were starting to work on the early-maturity hybrids. The early test average yield here was 184.1 bu. per acre and the full-season test yields averaged 180.6 bu. per acre.

Iowa Falls – This plot got off to a great start and received adequate rainfall until July 25, when the faucet turned off. We only recorded one-half inch of rain during August and early September. There was very little evidence of any disease present at the time of harvest. No root lodging was observed here; the majority of lodging occurred above the ears. The early test average yield was 181.3 bu. per acre and the full-season test yield average was 174.4 bu. per acre.

Saratoga – This test site had great weather all season long, which was combined with very low incidences of insect or disease pressure and timely rains to give this field what it needed for great yields. Kernels were set to the very tip of the ear and, despite an accelerated accumulation of GDUs through grain fill, kernel depth was average.

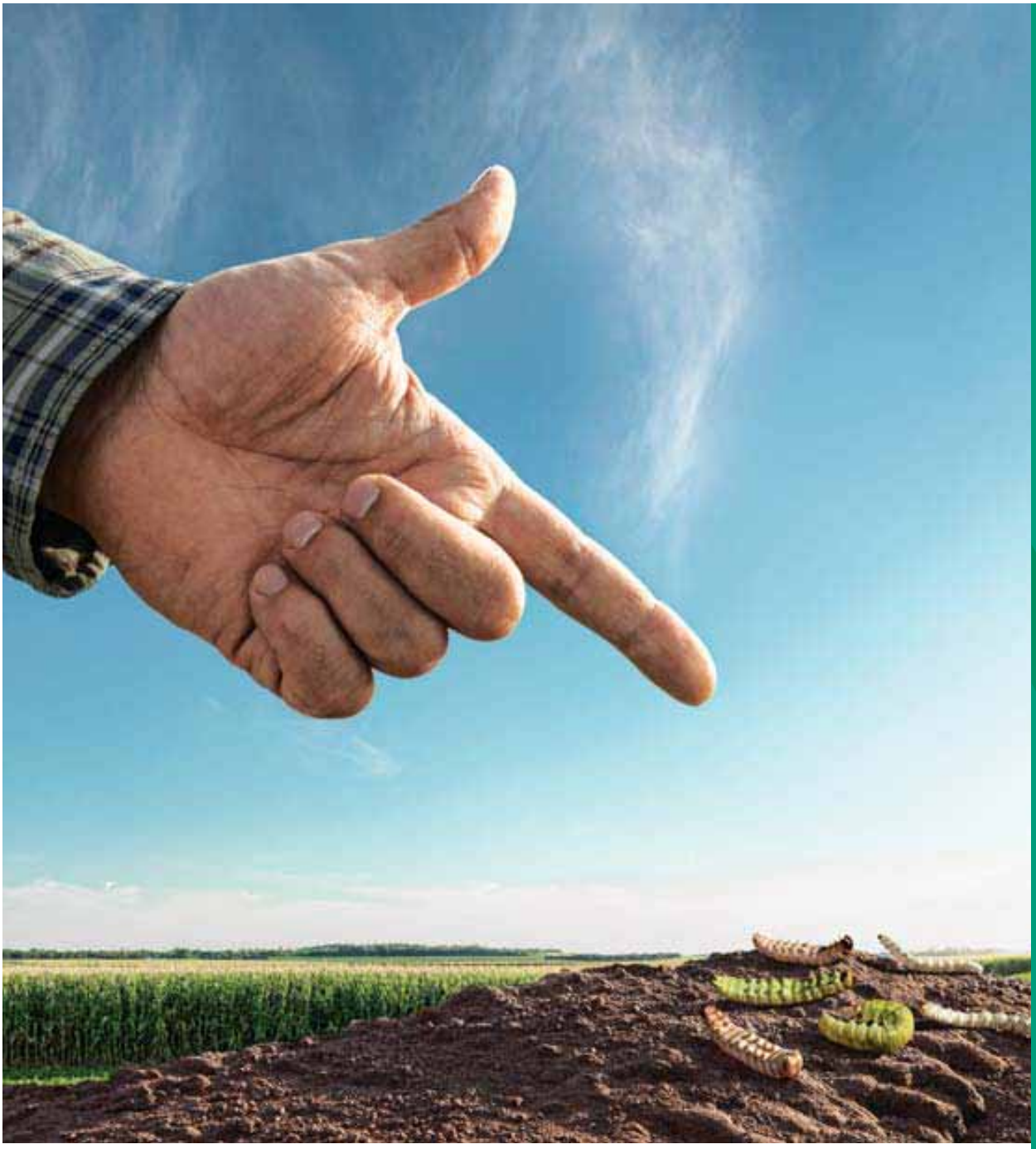
Waterloo – This plot got off to a great start with an early planting date (April 29). Emergence was good and even and the stands were exceptional. Although it seemed to never stop raining in late July and all of August, the plot area is well tiled and never held any surface water for any extended period of time. Very little disease was noted on this test site. The early-season yield average was 194.7 bu. per acre and the full-season test yield average was 197.6 bu. per acre.

Mason City – This site had adequate rain from planting through the middle of July. There were some curled ear tips and tip dieback observed, indicating some stress during early kernel development. Kernel depth, however, was still good after another dose of needed rains in September. No known diseases were present in this field. The early test results showed a yield average of 183.1 bu. per acre and the full-season yield average was 184.1 bu. per acre.

Greene – This test location showed excellent emergence, being both even and uniform. It enjoyed plentiful rain until the middle of August. The ears of corn were pollinated well and had a quality kernel set. Very little disease pressure was visible at harvest. Corn was standing fairly well. Overall, this was a nice and uniform plot. Yields here were higher for the early test at 203.9 bu. per acre while the full-season yield averaged 188.3 bu. per acre.

Test Site Description						Test Average			Yield Check Comparison (Pioneer 35K04)		
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	Stand (per A)	Lodging (%)	Yield (Bu/A)	Early Test	Full Test	*Difference
Greene	loam	conventional	Soybean	150	4/28	34,600	5.1	196.1	200.2	202.7	-2.5
Iowa Falls	silt loam	conventional	Corn	198	4/23	32,800	10.9	177.9	161.7	162.6	-0.9
Mason City	silty clay loam	conventional	Corn, 2+ yr	180	4/29	33,450	1.8	183.6	188.5	183.2	5.3
Oelwein	loam	conventional	Corn	191	5/3	33,050	4.0	182.4	192.9	185.2	7.7
Saratoga	silt loam	minimum	Soybean	181	4/28	32,700	1.1	212.0	199.4	210.1	-10.7
Waterloo	silty clay loam	no-till	Soybean	187	4/29	33,500	13.7	196.2	200.8	193.4	7.4

*Apply the difference to brands in the full-season test before comparing them to brands in the early-season test.



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Farmer's Independent Research of Seed Technologies

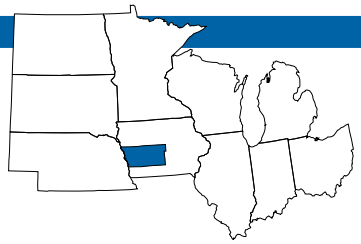
EARLY SEASON TEST 105 - 110 Day CRM — Top 30 of 48 tested

Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Dunlap	Glidden	Oakland	Slater	Winterset	Yale
Stine	9731VT3Pro	VT3P	P250	**212.9**	18.3	1.2	$1,032.9	1	**229.5**	**268.5**	**222.6**	**200.7**	**176.7**	**179.4**
LG Seeds	LG2555VT3	VT3	P250	**206.5**	18.3	4.5	$1,001.8	2	213.8	246.4	**224.8**	**191.2**	150.3	**212.3**
Wyffels	W6871	VT3	P250	**205.1**	18.4	2.2	$994.1	3	214.3	**270.3**	**224.7**	179.9	156.2	**184.9**
Producers	7014VT3	VT3	P250	**200.7**	18.3	1.2	$973.7	4	197.8	244.2	209.3	**188.3**	**195.8**	168.9
Channel	209-19VT3	VT3	P250	198.2	17.7	1.6	$966.9	5	198.8	**251.0**	219.0	180.2	159.2	**180.9**
Merschman	Stine M-1109D-10	VT3	P500	196.4	18.1	1.0	$954.6	6	212.0	248.7	211.7	169.1	**187.6**	149.4
FS Seeds	FS60MV4	VT3P	P250	194.3	17.5	2.8	$949.6	7	197.7	**252.4**	**230.5**	**193.3**	139.0	152.9
Great Lakes	5643VT3PRO	VT3P	P250	193.2	16.9	1.0	$949.5	8	205.0	225.8	**226.5**	157.5	159.1	**185.4**
NuTech	3T-110	VT3	C250	193.2	18.4	1.5	$936.4	10	**219.4**	**256.9**	207.4	165.1	109.5	**200.6**
Channel	209-77VT3	VT3	P250	193.1	17.2	1.0	$946.4	9	209.3	**271.6**	**231.6**	162.7	159.9	123.3
Kruger	K-6408VT3	VT3	P250	190.7	17.7	1.0	$930.3	13	208.7	228.3	**229.0**	142.6	169.7	166.0
NuTech	3A-710	GT	C250	190.3	17.3	1.2	$931.8	12	185.2	**265.6**	195.1	172.6	**186.1**	137.0
Wyffels	W6261	VT3	P250	190.1	18.0	1.0	$924.8	14	214.5	223.3	210.3	164.4	161.6	166.4
Wyffels	W7071	VT3	P250	189.8	18.3	1.0	$920.8	16	215.2	229.4	213.4	**186.1**	148.9	146.0
LG Seeds	LG2549VT3	VT3	P250	189.0	18.3	1.6	$916.9	17	186.7	240.3	203.0	168.5	152.9	**182.7**
Renze	1300VT3	VT3	C250	188.6	18.1	1.0	$916.7	18	201.7	228.5	211.1	**189.3**	135.8	165.1
Kruger	K-6006VT3	VT3	C250	188.1	17.3	1.3	$921.0	15	209.4	220.9	210.7	159.1	168.2	160.5
NuTech	G2 5X-411^	HXT,RR2	C250	187.3	18.6	1.0	$906.2	21	210.6	222.8	191.2	144.6	**178.0**	**176.5**
NuTech	G2 5H-511^	HX,RR2	C250	186.9	18.3	1.5	$906.7	20	186.4	227.5	215.6	178.6	163.2	149.9
NuTech	*3T-810*	*VT3*	*C250*	*186.5*	*19.4*	*1.9*	*$895.6*	*23*	***225.8***	*185.3*	*206.6*	*180.4*	*173.7*	*147.4*
Renze	1219VT3	VT3	C250	185.9	16.6	1.0	$916.1	19	200.7	212.7	200.9	168.5	**182.3**	150.2
NuTech	1N-109	CB/LL/RW	C250	184.4	17.6	1.0	$900.4	22	186.2	230.0	215.2	150.4	148.1	**176.4**
Titan Pro	80A08GL	3000GT	C250	183.5	18.3	1.0	$890.3	27	166.8	230.8	211.1	168.6	161.9	161.9
Titan Pro	1059	None	None	182.7	17.2	1.3	$895.4	24	186.6	232.1	204.1	178.4	113.1	**182.1**
AgriGold	A6384VT3Pro	VT3P	P250	181.9	16.8	1.0	$894.8	25	199.6	225.4	207.2	164.3	125.9	168.8
LG Seeds	LG2529VT3Pro	VT3P	P250	181.5	16.6	1.3	$894.4	26	206.6	203.6	213.1	160.0	165.6	140.1
Kruger	K-6010VT3	VT3	C250	180.2	17.8	1.2	$878.3	30	191.0	245.5	**225.8**	167.0	117.2	134.6
Renze	7270RR2	RR2	C250	180.1	17.4	1.0	$881.0	29	182.0	234.1	194.7	165.8	115.0	**189.1**
Masters Choice	MCT527*	3000GT	P250	178.7	16.5	3.4	$881.4	28	203.2	218.7	205.9	159.1	139.8	145.4
Titan Pro	89A06GL	3000GT	C250	178.0	16.7	2.2	$876.4	31	200.1	218.0	197.3	156.9	149.8	145.7
Pioneer	P1184XR CK	HXT,RR2	P250	192.4	18.1	1.0	$935.2	11	**224.0**	240.5	208.3	163.3	168.9	149.3
Test Average =				**183.3**	**17.6**	**1.4**	**$895.0**		**196.0**	**229.4**	**206.7**	**162.2**	**150.3**	**155.2**
LSD (0.10) =				15.0	0.6	n.s.			23.0	21.5	14.4	19.9	24.4	18.9

FULL SEASON TEST 111 - 114 Day CRM — Top 30 of 48 tested

Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Dunlap	Glidden	Oakland	Slater	Winterset	Yale
Channel	213-32VT3	VT3	P250	**213.1**	20.4	2.5	$1,013.7	1	**241.5**	**244.9**	225.7	**171.7**	181.7	**213.1**
Dyna-Gro	57V40	VT3	P250	**208.4**	18.8	1.0	$1,006.4	2	227.5	238.7	218.6	**187.3**	189.8	**188.7**
Producers	7414VT3	VT3	P250	**207.5**	20.4	1.2	$987.1	5	221.4	**258.5**	**228.3**	**171.8**	**200.2**	164.8
Stine	9806VT3Pro	VT3P	P250	**207.4**	22.3	1.2	$968.9	9	217.9	**246.8**	213.4	**198.4**	184.1	184.0
Merschman	Stine M-911C-10	VT3	P500	206.5	19.0	3.2	$995.3	3	231.1	**246.7**	211.5	**188.3**	180.7	180.5
Mycogen	2V732	VT3	C250	205.8	19.2	1.3	$990.1	4	213.0	**251.4**	221.1	**175.7**	189.7	184.0
Producers	7394VT3	VT3	P250	205.4	20.4	1.5	$977.1	7	226.1	242.9	**235.0**	152.4	187.4	**188.7**
Channel	214-14VT3P	VT3P	P250	204.8	19.6	1.0	$981.6	6	**234.8**	**248.2**	**228.3**	133.2	**198.5**	185.5
FS Seeds	FS64JV3	VT3	P250	203.9	20.4	1.2	$970.0	8	217.5	231.7	217.5	170.3	195.6	**190.9**
LG Seeds	LG2620VT3	VT3	P250	203.2	20.6	1.0	$964.8	10	221.3	237.7	**230.8**	164.0	192.9	172.2
Great Lakes	6354G3VT3	VT3	P250	202.5	20.6	1.0	$961.5	11	221.5	**244.8**	**230.9**	154.6	177.0	185.9
LG Seeds	LG2641VT3	VT3	P250	201.0	20.4	2.5	$956.2	14	**234.3**	239.3	204.7	167.4	179.8	180.2
Kruger	K-6213VT3	VT3	P250	200.2	19.5	1.0	$960.5	12	**236.4**	**252.7**	220.8	143.4	193.0	154.7
AgriGold	A6476VT3	VT3	P250	198.6	19.1	1.0	$956.4	13	228.5	234.6	224.3	**185.3**	175.2	143.4
Kruger	K-7614	VT3P	P250	197.9	19.9	1.2	$945.9	17	219.5	207.0	224.2	150.9	177.5	**208.3**
Kruger	K-1211RR	RR2	P250	197.5	18.6	2.0	$955.5	15	218.0	224.9	214.5	149.2	180.9	**197.3**
Kruger	K-6411VT3	VT3	C250	196.5	18.1	2.4	$955.1	16	213.1	237.6	211.2	**173.4**	176.0	167.4
Great Lakes	6455G3VT3	VT3	P250	196.1	20.3	3.3	$933.7	22	208.1	218.9	214.4	133.0	**205.5**	**196.4**
FS Seeds	FS63MV4	VT3P	P250	196.1	20.5	1.2	$932.0	23	227.5	**252.2**	207.3	135.0	185.3	169.1
Dyna-Gro	D52VP20*	VT3P	P250	196.0	19.0	1.0	$944.7	18	228.0	211.9	217.1	154.9	187.9	176.1
AgriGold	A6553VT3	VT3	P250	194.2	20.4	4.1	$923.8	30	229.6	216.7	**229.7**	126.6	187.4	175.3
Wyffels	W8430	RR2	P250	194.0	20.4	1.0	$922.9	31	221.1	218.5	199.0	148.0	**199.3**	177.9
LG Seeds	LG2616VT3	VT3	P250	193.6	19.4	2.4	$929.7	25	207.9	228.9	219.1	138.8	186.4	180.7
Mycogen	2H735	RR2	C250	193.5	19.4	1.0	$929.2	27	220.1	**250.1**	208.1	118.2	177.9	186.4
Renze	1340VT3	VT3	C250	193.2	18.7	1.0	$933.8	21	210.1	230.9	209.0	**172.5**	176.9	159.7
Dekalb	DKC62-54 GC	VT3	P250	193.1	18.6	1.5	$934.2	20	216.4	214.6	**232.4**	117.5	**202.5**	175.1
Renze	1399VT3	VT3	C250	192.8	18.9	2.0	$930.2	24	200.6	**244.2**	219.0	158.3	183.9	150.8
Mycogen	2C641	RR2	C250	192.5	17.6	1.0	$940.0	19	224.6	227.6	204.9	170.1	150.8	177.1
FS Seeds	FS61BX1	SS	P250	192.3	18.7	1.0	$929.5	26	223.9	**247.7**	208.9	147.3	160.7	165.5
Dyna-Gro	57V38	VT3	P250	192.1	19.1	1.0	$925.1	29	213.9	220.9	216.7	**173.5**	185.2	142.2
Pioneer	P1184XR CK	HXT,RR2	P250	192.0	18.7	1.2	$928.0	28	226.3	241.0	205.6	156.1	162.6	160.4
Test Average =				**193.3**	**19.6**	**1.9**	**$926.1**		**217.3**	**229.0**	**212.8**	**149.3**	**177.3**	**174.0**
LSD (0.10) =				13.7	0.6	2.4			17.0	14.1	13.7	21.2	21.2	13.2

Randy Meinsma, FIRST Manager



Stats:
Yield Range: 108.8 to 271.6 bu. per acre
Yield Average: 188.3 bu. per acre
Top $ Per Acre: $1306.70

Field Notes: Iowa West Central

Dunlap – Rainfall was more than ample the entire season here at our Dunlap test plot. Excellent seedling establishment was maintained throughout harvest. Due to small seed size, some harvest populations were above 34,000. Plant heights were very tall at the time of harvest and the ears were long with deep kernels. There were signs of leaf disease and anthracnose present.

Oakland – This test location was very nice and uniform. We had great plant establishment with ample rainfall all season. Minor levels of leaf disease were present on the upper leaves while a low level of anthracnose was also present at the base of the cornstalks. The plants were very tall with large ears and strong cobs. The reported lodging was at the roots and we observed no weed-control problems.

Glidden – This Carroll County test plot was wonderful and provided some excellent yields (229.4 bu. per acre in the early-season test and 229 bu. per acre in the full-season test). The location was very nice and the crops were uniform. Ample, but not excessive, rainfall all season long helped produce the yields attained here. Pollination was excellent, with complete seed set. The ears were large and filled to the tip with large kernels. We observed no disease pressure on the medium to tall plants here and the weed control was excellent as well. This was a great test plot.

Yale – This test site had very good stand establishment. Rainfall was abundant all season, which impacted yields similar to all surrounding fields. Some gray leaf spot and anthracnose was apparent on these tall plants. The grain moisture was very dry due to excellent harvest weather and the ears remained well-attached to the stalks.

Winterset – Despite being tiled ground, this crop suffered from wet feet all season. Yield results were a bit more variable (early-season yields ranged from 109.5 bu. per acre to 195.8 bu. per acre and full-season yields ranged from 143 bu. per acre to 205.5 bu. per acre) than normal but are still reliable. Gray leaf spot and anthracnose were present, potentially impacting results and yield variation. The plants were medium to tall with no weed-control issues.

Slater – Historically, this location has provided some excellent data. The rainfall that we received here this year has exceeded our average rainfall by a wide margin. Diseases that were present and observed included gray leaf spot and anthracnose, but weed control here was not a problem. The ears in this crop were securely attached to the stalks, but the cobs were soft. Plants in this field were short.

Test Site Description						Test Average			Yield Check Comparison (Pioneer P1184XR)		
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	Stand (per A)	Lodging (%)	Yield (Bu/A)	Early Test	Full Test	*Difference
Dunlap	silt loam	minimum	Corn	200	5/4	33,950	2.9	206.7	224.0	226.3	-2.3
Glidden	silty clay loam	minimum	Soybean	203	4/22	33,950	1.0	229.2	240.5	241.0	-0.5
Oakland	silt loam	no-till	Soybean	160	5/4	33,900	1.5	209.8	208.3	205.6	2.7
Slater	loam	minimum	Soybean	171	4/29	33,350	2.6	155.8	163.3	156.1	7.2
Winterset	silty clay loam	no-till	Soybean	143	4/29	33,850	1.1	163.8	168.9	162.6	6.3
Yale	loam	minimum	Soybean	150	4/22	33,300	1.0	164.6	149.3	160.4	-11.1

*Apply the difference to brands in the full-season test before comparing them to brands in the early-season test.

Farmer's Independent Research of Seed Technologies

IAEC Iowa East Central Corn Results

EARLY SEASON TEST 105 - 110 Day CRM — Top 30 of 72 tested

Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Central City	Keystone	Oskaloosa	Swedesburg	Victor	Washington
Channel	209-77VT3	VT3	P250	**215.4**	17.7	1.0	$1,050.8	1	194.0	**225.8**	218.1		**229.9**	**209.2**
Stone	6N52VT3	VT3	P250	**215.1**	18.1	1.2	$1,045.5	2	**201.0**	213.3	**219.4**		220.7	**220.9**
Dekalb	DKC58-83 GC	VT3P	P250	**212.5**	17.5	1.0	$1,038.6	3	**200.4**	**228.9**	208.4		213.0	**211.9**
Wyffels	W6871	VT3	P250	**211.7**	18.9	1.0	$1,021.3	5	190.3	**224.7**	209.4		**236.8**	197.3
Kruger	K-6107VT3	VT3	C250	**211.4**	17.4	1.2	$1,034.2	4	**201.7**	**226.9**	199.4		215.2	**213.9**
NuTech	3T-110	VT3	C250	205.8	18.7	1.0	$994.7	10	191.8	**227.1**	205.1		220.8	184.2
FS Seeds	FS60MV4	VT3P	P250	205.5	18.1	1.6	$998.8	6	186.0	**224.5**	202.1		**228.9**	186.2
Stine	9731VT3Pro	VT3P	P250	205.3	18.4	1.2	$995.1	8	191.4	219.7	198.8		**231.5**	185.0
Channel	210-61VT3	VT3	P250	205.1	18.7	1.0	$991.4	13	188.4	**222.9**	204.0		216.9	193.1
Channel	208-72VT3	VT3	P250	204.9	17.8	1.2	$998.7	7	194.0	218.7	203.4		**221.7**	186.6
AgriGold	A6458VT3	VT3	P250	204.8	18.4	1.0	$992.7	12	198.2	**222.9**	173.9		221.3	**207.8**
Lewis	910VT3	VT3	P250	204.3	17.9	1.2	$994.8	9	188.1	219.7	206.2		**222.4**	185.3
Dekalb	DKC59-35 GC	VT3	P250	204.3	18.0	1.0	$993.9	11	187.2	209.0	198.0		211.3	**216.1**
Renze	1300VT3	VT3	C250	202.9	18.1	1.9	$986.2	14	190.0	205.1	203.7		218.4	197.4
LG Seeds	LG2549VT3	VT3	P250	201.8	18.5	1.0	$977.2	17	196.7	207.3	181.6		209.0	**214.4**
Kruger	K-6010VT3	VT3	C250	201.2	17.8	1.0	$980.6	16	194.0	219.5	156.5		219.5	**216.7**
Fontanelle	7V657	VT3P	P250	200.6	18.2	1.2	$974.1	20	181.5	190.5	215.5		212.6	203.0
Titan Pro	1098	None	None	200.1	17.9	1.2	$974.4	19	188.4	211.3	193.5		209.6	197.7
Kruger	K-6408VT3	VT3	P250	199.9	16.8	1.2	$983.3	15	189.5	217.9	197.9		215.1	178.9
NuTech	G2 5X-411^	HXT,RR2	C250	199.5	18.7	1.2	$964.3	25	182.2	196.2	192.4		**224.3**	202.3
Wyffels	W6261	VT3	P250	199.4	17.9	1.0	$971.0	22	190.3	210.5	191.5		214.1	190.5
Channel	209-19VT3	VT3	P250	199.1	17.1	1.2	$976.7	18	190.9	**230.0**	155.7		**229.7**	189.3
Merschman	Stine M-1109D-10	VT3	P500	197.5	18.0	1.9	$960.8	27	195.9	207.9	189.8		220.8	173.1
Titan Pro	80A10	CB/LL/RW	C250	197.4	17.7	1.2	$963.0	26	183.3	198.9	206.8		218.2	179.6
Lewis	1107VT3	VT3	P250	197.0	16.9	1.2	$968.2	23	190.3	214.8	205.0		212.3	162.5
Garst	85V88-3000GT GC	3000GT	C500	196.3	17.8	1.2	$956.8	29	**200.6**	209.2	179.4		207.1	185.0
Trelay	7VP164	VT3P	P250	196.1	16.6	1.0	$966.4	24	197.1	204.9	200.2		215.6	162.9
Great Lakes	5643VT3PRO	VT3P	P250	195.6	17.1	1.0	$959.5	28	184.3	183.3	200.9		216.3	193.1
NuTech	1N-109	CB/LL/RW	C250	193.8	17.7	1.0	$945.5	31	194.7	212.1	157.9		213.2	191.1
Kruger	K-6006VT3	VT3	C250	193.4	17.3	1.0	$947.0	30	192.3	213.5	161.2		**225.0**	174.8
Pioneer	P1184XR CK	HXT,RR2	P250	200.2	18.2	1.0	$972.2	21	186.0	217.7	160.5		**219.9**	**216.7**
Test Average =				**193.0**	**17.5**	**1.1**	**$942.6**		**183.4**	**205.0**	**178.7**		**208.8**	**187.7**
LSD (0.10) =				14.7	0.6	n.s.			15.0	15.1	38.6		12.9	15.4

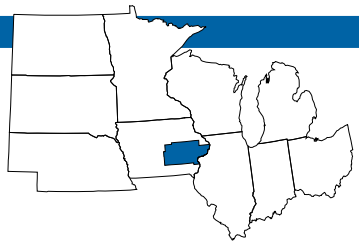
Not Harvested - Poor weed control, weather related

FULL SEASON TEST 111 - 114 Day CRM — Top 30 of 54 tested

Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Central City	Keystone	Oskaloosa	Swedesburg	Victor	Washington
AgriGold	A6553VT3	VT3	P250	**219.0**	20.8	1.0	$1,018.8	3	200.3	215.4	**229.6**		**228.6**	**221.1**
LG Seeds	LG2620VT3	VT3	P250	**218.6**	20.4	1.0	$1,022.2	1	202.5	212.7	**231.6**		**230.4**	216.0
Channel	214-14VT3P	VT3P	P250	214.8	19.8	1.2	$1,012.1	4	197.5	202.7	**228.1**		**236.9**	208.6
Renk	RK880SSTX	SS	P250	214.4	19.1	1.2	$1,019.3	2	197.7	**225.5**	224.4		**231.4**	193.1
Stine	9806VT3Pro	VT3P	P250	213.4	22.0	1.0	$977.4	24	205.1	186.7	224.3		227.0	**223.9**
Dyna-Gro	D52VP20*	VT3P	P250	212.1	19.1	1.0	$1,008.3	6	206.6	205.3	200.5		**240.0**	208.0
FS Seeds	FS63MV4	VT3P	P250	211.6	20.2	1.0	$992.0	11	200.5	200.2	210.9		**229.5**	216.9
Lewis	1011VT3	VT3	P250	211.5	18.8	1.0	$1,009.3	5	201.8	186.2	216.1		**230.3**	**223.0**
Mycogen	2H735	RR2	C250	211.3	19.6	1.2	$998.2	8	202.2	210.7	210.6		217.6	215.2
Great Lakes	6455G3VT3	VT3	P250	210.7	20.6	1.2	$982.7	17	199.5	205.6	220.1		226.2	202.1
Trelay	8T468	VT3	P250	210.3	19.3	1.0	$997.2	9	206.0	195.9	225.0		214.1	210.6
Dyna-Gro	57V38	VT3	P250	210.2	18.9	1.0	$1,001.8	7	202.1	196.9	224.5		209.6	218.1
LG Seeds	LG2641VT3	VT3	P250	209.7	20.6	1.0	$978.0	22	200.1	201.0	224.7		222.1	200.4
Kruger	K-7614	VT3P	P250	209.3	19.4	1.0	$991.2	12	**207.5**	199.6	206.6		217.6	215.2
Renze	1399VT3	VT3	C250	209.2	18.9	1.2	$997.0	10	202.4	194.2	211.0		223.3	214.9
Great Lakes	6354G3VT3	VT3	P250	209.1	20.5	1.0	$976.5	26	193.2	210.6	224.7		208.4	208.4
AgriGold	A6533VT3	VT3	P250	208.9	20.7	1.4	$973.1	29	187.5	206.4	219.5		226.1	205.1
Fontanelle	8V437	VT3P	P250	208.2	19.6	1.0	$983.5	16	205.0	191.5	213.7		221.2	209.5
Kruger	K-6213VT3	VT3	P250	207.6	19.6	1.0	$980.7	20	196.1	215.8	216.9		215.8	193.3
AgriGold	A6476VT3	VT3	P250	207.1	19.0	1.0	$985.8	15	198.0	209.7	204.4		213.5	209.9
Stone	7N88VT3	VT3	P250	206.9	19.6	1.2	$977.4	23	201.5	204.4	211.5		220.7	196.3
LG Seeds	LG2616VT3	VT3	P250	206.8	19.2	1.0	$981.9	19	196.5	207.5	223.4		212.7	193.9
Kruger	K-1211RR	RR2	P250	206.4	18.3	1.0	$991.1	13	204.0	203.6	217.6		203.9	203.1
FS Seeds	E6003	GT/CB/LL	P250	206.1	19.8	1.4	$971.1	30	192.0	**220.3**	203.3		**231.2**	183.7
Dyna-Gro	57V40	VT3	P250	205.7	19.0	1.0	$979.1	21	200.7	200.3	202.5		227.7	197.2
Mycogen	2V732	VT3	C250	204.4	18.7	1.5	$976.6	25	187.8	202.0	213.4		213.0	205.6
Cornelius	C649VT3	VT3	P250	203.5	17.9	1.0	$982.1	18	179.6	200.7	211.4		213.4	212.3
Renk	RK848VT3P	VT3P	P250	203.3	18.4	1.0	$975.0	27	203.2	**220.0**	193.9		213.4	186.2
Merschman	Stine M-1012F-10	VT3	P500	203.3	19.0	3.8	$967.7	31	200.6	202.5	213.7		214.6	184.9
Trelay	7VP745	VT3P	P250	203.2	18.5	1.0	$973.3	28	201.7	197.0	202.9		211.3	202.9
Pioneer	P1184XR CK	HXT,RR2	P250	207.0	18.9	1.0	$986.6	14	184.6	188.4	223.0		220.6	218.3
Test Average =				**205.2**	**19.5**	**1.4**	**$971.0**		**194.0**	**200.2**	**213.1**		**216.4**	**202.3**
LSD (0.10) =				9.7	0.7	1.7			13.3	16.5	13.8		11.5	17.6

Not Harvested - Poor weed control, weather related

Randy Meinsma, FIRST Manager



Stats:
Yield Range: 90.5 to 240.0 bu. per acre
Yield Average: 199.0 bu. per acre
Top $ Per Acre: $1187.00

Field Notes: Iowa East Central

Central City – This test location provided very consistent, uniform results. The field was well drained, which minimized the impact of excessive rainfall in this region. Plants were medium height and showed a light infestation of leaf disease and anthracnose. Ears developed good-sized kernels. Plant quality was deteriorating fast, as ear retention was weak. Yields for this test averaged 183.4 bu. per acre for the early test and 194 bu. per acre for the full-season test.

Keystone – This test location farmed by Eric and Don Franzenburg provided excellent results. Just like other Iowa locations, rainfall was excessive all season. This test plot is on a slope and drained very well. Plants were very tall and had great pollination. Very little leaf disease was observed, but slight anthracnose was. The ears produced good-sized deep kernels and the test plot averaged a yield of 205 bu. per acre for the early test and 200.2 bu. per acre for the full-season test.

Swedesburg – This test site was lost due to extremely wet conditions all season that impacted herbicide application. Harvest was attempted, but dense weed pressure repeatedly plugged up the combine head. Even if it had been successfully harvested, the data would have been rejected due to the influence of weeds.

Washington – Rainfall was very high at this test plot location. Fortunately, the test was located in such a way that drainage was good. Anthracnose was present, with stalk quality deteriorating very quickly. There was little or no foliar disease pressure observed, and yield results for both early and late tests were excellent at 187.7 bu. per acre and 202.3 bu. per acre, respectively.

Oskaloosa – This site received an excessive amount of rain all season. The early test had standing water on multiple occasions. Anthracnose and stalk lodging was apparent, with a few root-lodged hybrids. There was little or no foliar disease present. Early test yield results are statistically valid but highly variable; use them knowingly. Late test results showed no standing water and provided excellent yield results. Early-season yields were 178.7 bu. per acre and full-season yields were 213.1 bu. per acre.

Victor – Drainage was very good on this plot, which was critical for the success here. Plants were tall and healthy, with most leaves intact at harvest. Ears were large, with deep kernels and complete seed sets. There were no weed-control issues or diseases observed. Early test yields were an average of 208.8 bu. per acre and the full-season test yielded an average of 216.4 bu. per acre.

Test Site Description						Test Average			Yield Check Comparison (Pioneer P1184XR)		
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	Stand (per A)	Lodging (%)	Yield (Bu/A)	Early Test	Full Test	*Difference
Central City	loam	minimum	Soybean	178	5/5	33,400	1.3	188.7	186.0	184.6	1.4
Keystone	silt loam	minimum	Soybean	150	5/3	33,700	1.1	202.6	217.7	188.4	29.3
Oskaloosa	silty clay loam	minimum	Soybean	183	4/20	34,400	1.4	195.9	160.5	223.0	-62.5
Swedesburg	silty clay loam	no-till	Soybean		4/21				Not harvested		
Victor	silt loam	minimum	Soybean	163	5/3	33,400	1.0	212.6	219.9	220.6	-0.7
Washington	silty clay loam	no-till	Soybean	180	4/21	32,750	1.7	195.0	216.7	218.3	-1.6

*Apply the difference to brands in the full-season test before comparing them to brands in the early-season test.

Jason Beyers, FIRST Manager

Stats:

Yield Range: 46.8 to 83.2 bu. per acre
Yield Average: 61.1 bu. per acre
Top $ Per Acre: $832.00

Field Notes: Iowa North

Emmetsburg – This plot experienced significant hail damage on June 25 and, to a lesser degree, damage on July 18. This damage, coupled with over 5" of rain during the second week of August, tested varietal ability to recover from intense weather systems. Plants ranged in height from 20" to 42".

Algona – It was an unusually wet spring, with over 19" of rain reported near the site through June and July. Root health appeared to be affected by moderate water stress, which limited pod filling throughout a relatively dry August. Plant heights ranged from 35" to 46".

Floyd – This location demonstrated the ability of offensive varieties to reach high-end yield potential. Strong growth through vegetative stages caused some lodging; however, all varieties rebounded through maturity and harvested well. Plants ranged from 30" to 47" in height.

New Hampton – The Chickasaw County location was all about offensive performance. No disease or insect pressure was observed. Adequate rainfall and moderate temperatures allowed varieties an exceptional opportunity to set and fill a lot of pods. Plants here ranged from 24" to 47". Overall, this was an excellent field.

Test Site Description

Site	Soil Texture	Tillage	Spacing	Planting Date	Stand	SCN Pop.
Algona	clay loam	conventional	15	5/17	127,000	low
Emmetsburg	silty clay loam	conventional	15	5/17	114,500	medium
Floyd	silt loam	no-till	15	5/18	115,900	low
New Hampton	silt loam	no-till	15	5/18	106,900	low

1.8 - 2.5 Maturity Group — Top 30 of 63 tested

Company	Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Algona	Emmetsburg	Floyd	New Hampton
Renk	RS241R2	RR2Y	2.4	S	AC	**68.6**	11.5	7.5	$891.8	**55.9**	64.2	**71.0**	**83.2**
Titan Pro	23M9	RR2Y	2.3	S	CM	**67.9**	11.6	6.5	$882.7	**54.9**	**67.1**	**73.3**	**76.4**
Wensman	W3230R2	RR2Y	2.3	S	AC	**67.3**	11.7	5.8	$874.9	53.8	**66.0**	**71.6**	**77.9**
Hefty	H23Y10	RR2Y	2.3	S	AC	**66.3**	11.4	6.3	$861.9	**56.7**	63.6	68.1	**76.6**
FS Seeds	HS24A01	RR2Y	2.4	S	AC	**66.2**	11.5	4.4	$860.6	52.5	**65.3**	**70.9**	**75.9**
Kruger	K2-2301	RR2Y	2.3	S	AC	**65.1**	11.4	4.3	$846.3	**54.7**	63.2	68.8	73.6
Channel	2402R2	RR2Y	2.4	S	AC	**64.8**	11.7	8.8	$842.4	54.1	**66.8**	66.7	71.6
Prairie Brand	PB-1920R2	RR2Y	1.9	S	AC	64.4	11.9	9.3	$837.2	52.7	**64.6**	67.9	72.3
FS Seeds	HS24R91	RR	2.4	S	CM	64.3	11.7	12.8	$835.9	51.4	**64.9**	68.5	72.3
Dairyland	DSR-2011RR*	RR	2.0	S	CM	64.1	11.3	3.1	$833.3	51.6	61.2	66.2	**77.5**
Kruger	K2-1901	RR2Y	1.9	R	AC	64.0	11.1	7.0	$832.0	52.4	**64.4**	**72.4**	66.7
Prairie Brand	PP-242	RR2Y	2.4	MR	CM	63.7	11.7	7.3	$828.1	51.6	63.0	68.5	71.8
FS Seeds	HS23A02	RR2Y	2.3	R	AC	63.5	11.7	8.9	$825.5	**55.4**	59.6	66.7	72.3
Dyna-Gro	36RY19	RR2Y	1.9	R	AC	62.9	11.2	6.5	$817.7	54.0	63.1	68.0	66.6
Wensman	W3212NR2	RR2Y	2.1	R	AC	62.8	11.4	3.2	$816.4	50.2	58.9	**76.8**	65.2
Prairie Brand	PB-2042R2	RR2Y	2.0	R	CM	62.8	11.5	3.4	$816.4	50.9	57.7	65.1	**77.4**
Titan Pro	20M1*	RR2Y	2.0	R	CM	62.8	11.3	5.6	$816.4	**55.2**	59.5	**71.5**	64.9
Titan Pro	20M70	RR2Y	2.0	S	CM	62.1	12.2	21.8	$807.3	50.1	59.8	67.0	71.6
Kruger	K2-1902	RR2Y	1.9	R	AC	61.9	11.6	2.9	$804.7	51.7	57.4	67.6	71.0
Hefty	H23Y11	RR2Y	2.3	MR	AC	61.9	11.6	7.6	$804.7	50.0	61.4	66.7	69.5
FS Seeds	HS21A02	RR2Y	2.1	R	AC	61.8	11.4	4.1	$803.4	49.8	57.2	66.0	74.0
Dairyland	DSR-2560RR	RR	2.5	S	CM	61.8	11.5	19.1	$803.4	52.4	63.5	62.7	68.5
NuTech	G2 7230^	RR	2.3	R	CM	61.7	11.3	12.8	$802.1	50.7	59.6	64.8	71.7
Prairie Brand	PB-2110R2	RR2Y	2.1	S	CM	61.7	12.0	20.4	$802.1	47.9	62.0	65.0	72.0
SOI	2398RR	RR	2.3	S	None	61.6	11.5	6.4	$800.8	48.7	64.1	63.1	70.6
SOI	STAR 2481NRR2Y	RR2Y	2.4	R	CM	61.6	11.9	8.5	$800.8	49.0	60.7	66.1	70.7
Channel	2400R2	RR2Y	2.4	R	AC	61.6	12.3	16.0	$800.8	51.4	61.6	65.9	67.4
Viking	2201R2N	RR2Y	2.2	R	AC	61.5	12.4	8.7	$799.5	53.4	59.7	66.2	66.5
Dyna-Gro	33RY23 GC	RR2Y	2.3	R	AC	61.4	11.7	9.3	$798.2	50.4	58.9	67.6	68.7
Hefty	H19Y11	RR2Y	1.9	MR	CM	61.3	11.4	30.9	$796.9	50.8	62.4	63.9	68.0
Site Averages =						**61.1**	**11.7**	**8.6**	**$794.7**	**51.2**	**59.1**	**65.2**	**68.9**
LSD (0.10) =						3.7	0.6	6.0		3.0	5.2	3.8	5.4

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Jason Beyers, FIRST Manager

Stats:

Yield Range: 42.4 to 83.8 bu. per acre
Yield Average: 62.8 bu. per acre
Top $ Per Acre: $838.00

Field Notes: Iowa North Central

Galva – This plot received favorable weather, providing minimal crop stress and high yields. Plant heights ranged from 32" to 42", causing some taller varieties to lodge slightly. No limiting diseases were observed. Timely rains and moderate temperatures produced yields up to 83.8 bu. per acre with an average of 71 bu. per acre.

Havelock – The Pocahontas County plot received over 8" of rain in June. Irregular patterns of extremely dry and wet periods throughout the season caused a stunted appearance, with plant heights ranging from 22" to 40" and small seeded beans.

Iowa Falls – The field was clean all season, with no significant limiting diseases or insect pressure. Adequate rain fell from spring through mid-July, with over 3.5" in the third week of July alone. After that, less than 1" of rain fell the rest of the growing season. Plants ranged in height from 33" to 47" and had good pod loads.

Manchester – There were many reports of sudden death syndrome (SDS) in the area; however, it could not be confirmed at this no-till field. Despite severe wind events, the test plots rebounded well from some mid-season lodging.

Test Site Description

Site	Soil Texture	Tillage	Spacing	Planting Date	Stand	SCN Pop.
Galva	silty clay loam	conventional	15	5/5	107,900	low
Havelock	silt loam	conventional	15	5/5	121,700	medium
Iowa Falls	clay loam	conventional	15	5/4	124,400	high
Manchester	loam	no-till	15	5/4	120,200	medium

2.1 - 2.8 Maturity Group — **Top 30 of 45 tested**

Company	Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Galva	Havelock	Iowa Falls	Manchester
Titan Pro	23M9	RR2Y	2.3	S	CM	**73.0**	11.7	4.8	$730.0	**83.8**	**63.6**	**72.7**	**71.9**
FS Seeds	HS24R91	RR	2.4	S	CM	**67.9**	11.7	8.6	$679.0	**75.7**	**65.2**	65.1	65.6
Kruger	K2-2301	RR2Y	2.3	S	AC	**67.8**	11.6	4.0	$678.0	**80.5**	48.0	**75.8**	**67.0**
Prairie Brand	PB-2558NRR	RR	2.5	R	T6	**67.5**	11.7	3.9	$675.0	**77.9**	55.9	**69.6**	**66.5**
Dairyland	DSR-2560RR	RR	2.5	S	CM	**67.4**	11.7	8.2	$674.0	**77.1**	**59.8**	67.2	65.6
Prairie Brand	PP-242	RR2Y	2.4	MR	CM	66.1	11.8	6.7	$661.0	74.7	57.2	66.2	**66.1**
NuTech	6281	RR	2.8	S	CM	66.0	11.5	5.3	$660.0	72.2	**61.7**	63.2	**67.0**
Dyna-Gro	V25N9RR	RR	2.5	R	CM	65.8	11.8	6.8	$658.0	**75.7**	53.8	66.8	**66.8**
SOI	2534RR	RR	2.5	S	None	65.7	11.7	8.0	$657.0	71.1	58.9	66.1	**66.7**
Dairyland	DSR-2011RR*	RR	2.0	S	None	64.8	11.7	2.8	$648.0	75.1	52.1	62.6	**69.3**
Titan Pro	28M40*	RR2Y	2.8	R	None	64.6	12.7	24.5	$646.0	74.3	59.0	61.3	63.6
Prairie Brand	PB-2632R2	RR2Y	2.6	R	CM	64.4	12.6	29.5	$644.0	**76.6**	58.4	62.8	59.8
Kruger	K2-2802	RR2Y	2.8	R	AC	64.3	11.9	9.7	$643.0	73.4	53.7	65.5	64.7
FS Seeds	HS24A01	RR2Y	2.4	S	AC	64.0	11.6	5.7	$640.0	**76.3**	45.0	65.4	**69.3**
FS Seeds	HS28A02	RR2Y	2.8	R	AC	63.9	11.9	6.9	$639.0	72.2	**61.0**	60.3	61.9
FS Seeds	HS23A02	RR2Y	2.3	R	AC	63.8	11.8	6.5	$638.0	68.3	54.2	66.8	**66.0**
NuTech	G2 7258^	RR	2.5	R	CM	63.5	11.8	4.9	$635.0	71.5	58.0	64.8	59.8
Titan Pro	26M20	RR2Y	2.6	R		63.3	12.9	27.1	$633.0	71.5	**59.5**	62.1	60.1
NuTech	G2 7260^	RR	2.6	R	CM	63.1	11.4	3.1	$631.0	66.3	**61.1**	62.5	62.5
SOI	STAR 2481NRR2Y	RR2Y	2.4	R	CM	62.7	11.9	7.9	$627.0	70.8	53.1	63.4	63.6
NuTech	G2 7230^	RR	2.3	R	CM	62.6	11.5	4.4	$626.0	71.3	53.1	63.7	62.1
Kruger	K2-2502	RR2Y	2.5	R	AC	62.5	12.2	12.1	$625.0	64.2	57.3	65.6	62.8
Kruger	K2-2803	RR2Y	2.8	R	AC	62.4	11.9	5.0	$624.0	69.5	**60.9**	62.5	56.5
Prairie Brand	PB-2667NRR	RR	2.6	R	T6	62.3	11.8	5.4	$623.0	68.1	54.8	62.5	63.7
Kruger	K2-2703	RR2Y	2.7	R	AC	62.0	12.3	23.8	$620.0	**76.4**	46.0	64.3	61.4
Channel	2401R2	RR2Y	2.4	R	AC	61.4	11.8	3.8	$614.0	70.7	53.6	61.8	59.6
Dyna-Gro	38RY28	RR2Y	2.8	R	AC	61.3	11.6	5.2	$613.0	70.7	57.5	58.5	58.6
Channel	2400R2	RR2Y	2.4	R	AC	61.2	11.8	9.9	$612.0	68.1	50.0	66.9	59.8
Kruger	K2-2701	RR2Y	2.7	R	AC	61.2	12.0	12.4	$612.0	66.9	56.9	60.3	60.8
NuTech	2660RN	RR	2.6	R	CM	61.1	11.8	2.6	$611.0	70.5	52.4	60.5	60.9
Site Averages =						**62.8**	**11.8**	**8.2**	**$627.9**	**71.0**	**54.3**	**63.8**	**62.1**
LSD (0.10) =						4.5	0.5	6.9		4.4	5.2	4.7	3.9

Randy Meinsma, FIRST Manager

Stats:
Yield Range: 4.4 to 90.2 bu. per acre
Yield Average: 54.6 bu. per acre
Top $ Per Acre: $967.10

Field Notes: Iowa South Central

Yale – Above-normal rainfall and temperatures throughout the growing season were experienced by Dennis Mleynek at the Guthrie County test plot. This location was well drained, which helped the plots withstand the wet conditions, though the plants were moderately tall and subsequently susceptible to lodging. Sudden death syndrome (SDS) impacted several products, which had no pods in the plant tops.

Slater – Large amounts of rain in a field that was not well drained contributed to severe SDS; several products produced no soybeans at all. SDS caused variable yields and a wide gap between the high- and low-yielding products. Plants were tall and vulnerable to lodging, producing small seeds.

Keystone – The test location in Benton County is sloped, which provided good drainage and eliminated problems associated with the excess rainfall. SDS did have a major influence on product performance; yields varied substantially.

Anamosa – Good drainage, contributed to uniform test results. Plants were tall and full of pods containing small to medium seeds. Plant lodging was high with some products and SDS symptoms were apparent on several varieties.

Test Site Description

Site	Soil Texture	Tillage	Spacing	Planting Date	Stand	SCN Pop.
Anamosa	loam	no-till	15	5/10	138,600	n/a
Keystone	silty clay loam	conventional	15	5/20	141,000	n/a
Slater	loam	conventional	15	5/18	144,900	n/a
Yale	loam	conventional	15	5/18	141,900	n/a

2.4 - 3.1 Maturity Group — Top 30 of 36 tested

Company	Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Anamosa	Keystone	Slater	Yale
SOI	2534RR	RR	2.5	S	None	**64.8**	10.9	19.3	$686.9	**85.4**	**57.9**	**48.5**	**67.4**
Channel	2800R2	RR2Y	2.8	R	AC	**63.1**	10.8	12.0	$668.9	82.7	**61.4**	**43.4**	65.0
Kruger	K2-2803	RR2Y	2.8	R	AC	62.3	11.0	10.0	$660.4	**85.2**	56.1	**44.1**	63.6
FS Seeds	HS25A02	RR2Y	2.5	R	AC	61.9	10.8	4.1	$656.1	76.7	54.4	**53.5**	63.0
FS Seeds	HS28A02	RR2Y	2.8	R	AC	61.9	10.9	13.5	$656.1	81.6	55.0	**46.9**	64.1
Dyna-Gro	38RY28	RR2Y	2.8	R	AC	61.2	11.0	14.1	$648.7	84.1	55.8	41.9	63.0
Prairie Brand	PB-2632R2	RR2Y	2.6	R	CM	60.7	11.7	28.9	$643.4	**86.8**	**57.3**	41.3	57.2
Kruger	K2-3002	RR2Y	3.0	R	AC	58.6	10.8	32.9	$621.2	**89.4**	53.3	33.6	57.9
Prairie Brand	PP-242	RR2Y	2.4	MR	CM	58.3	11.0	17.7	$618.0	82.6	51.9	40.5	58.1
FS Seeds	HS27A02	RR2Y	2.7	R	AC	58.0	10.6	22.8	$614.8	79.2	53.3	38.1	61.2
SOI	2716NRR	RR	2.7	MR	None	56.1	10.6	11.0	$594.7	77.7	47.1	31.7	**68.0**
Dyna-Gro	39RY30	RR2Y	3.0	R	AC	55.7	10.7	17.7	$590.4	84.2	46.5	32.4	59.5
FS Seeds	HS29R80	RR	2.9	R	CM	55.6	11.3	16.5	$589.4	**86.3**	38.5	29.8	**67.9**
NuTech	G2 7260^	RR	2.6	R	CM	55.4	10.2	6.4	$587.2	73.7	56.6	32.4	58.7
Kruger	K2X24A1	RR2Y	2.3	R	AC	55.3	10.7	25.9	$586.2	74.3	51.3	36.5	59.0
Prairie Brand	PB-2742R2*	RR2Y	2.8	R	CM	55.2	10.2	16.5	$585.1	**85.7**	34.1	40.4	60.5
Kruger	K2-3103	RR2Y	3.1	R	AC	55.2	10.5	18.7	$585.1	78.8	51.7	32.1	58.0
FS Seeds	HS24A01	RR2Y	2.4	S	AC	55.1	11.3	16.5	$584.1	**90.2**	42.5	33.1	54.7
Titan Pro	32M20	RR2Y	3.1	R	CM	54.9	11.4	24.3	$581.9	77.1	50.4	29.4	62.6
FS Seeds	HS29A02	RR2Y	2.9	R	AC	54.8	11.1	23.0	$580.9	81.6	46.8	27.7	63.1
Kruger	K2-2703	RR2Y	2.7	R	AC	54.5	10.2	29.9	$577.7	74.7	41.1	35.7	66.6
Prairie Brand	PB-2667NRR	RR	2.6	R	T6	53.6	11.2	5.4	$568.2	79.1	48.3	39.6	47.4
Dyna-Gro	33RY30	RR2Y	3.0	R	AC	53.0	10.9	30.4	$561.8	74.4	52.0	27.8	57.6
Channel	3002R2	RR2Y	3.0	R	AC	52.6	11.6	29.7	$557.6	75.9	38.3	32.8	63.5
Asgrow	AG2406 GC	RR	2.4	MR	CM	52.3	10.7	3.4	$554.4	76.9	47.1	32.3	52.8
SOI	2769NRR	RR	2.7	R	None	51.4	10.6	14.1	$544.8	77.4	55.5	19.3	53.3
Prairie Brand	PB-2636NRR	RR	2.6	R	T6	51.3	10.8	20.6	$543.8	84.0	42.0	26.1	53.0
Kruger	K2-2701	RR2Y	2.7	R	AC	51.2	11.2	29.3	$542.7	70.6	42.7	31.1	60.5
Titan Pro	28M40*	RR2Y	2.8	R	None	50.6	10.2	26.3	$536.4	83.3	28.0	31.7	59.4
Channel	2902R2	RR2Y	2.9	R	AC	50.4	11.2	16.1	$534.2	**86.4**	39.9	18.2	57.1
Site Averages =						**54.6**	**10.9**	**19.6**	**$579.3**	**80.4**	**45.8**	**32.8**	**59.5**
LSD (0.10) =						7.8	1.4	11.5		4.3	11.3	10.6	7.5

Randy Meinsma, FIRST Manager

Stats:
Yield Range: 38.5 to 87.8 bu. per acre
Yield Average: 67.7 bu. per acre
Top $ Per Acre: $931.50

Field Notes: Iowa South

Oakland – A well-drained field really paid off with the heavy rains experienced at the Oakland test plot. Mark Bentley, the farmer, also reported some early-season hail. Despite these conditions, a uniform stand of healthy plants was cultivated. Tremendous growing conditions generated extra-tall plants that led to above-normal lodging scores.

Winterset – The site drained nicely, which was a big advantage with all the heavy rain. The plants were tall with a lot of pods; however, as a result, lodging was a problem. Harvested seed size was moderate. The farmer, Mike Erdman chooses late planting and a fungicide application. This field performed better than neighboring fields planted earlier.

Oskaloosa – This site was located on top of a hill that provided excellent drainage. The plants were very tall, approximately 30" to 36", and healthy with excellent pod set. The lodging scores reflect tall plants that were falling over from the many pods.

Washington – Sudden death syndrome (SDS) was severe in areas of this test and was seen in surrounding fields. Yield variability is primarily due to SDS impacting some replications but not others. Statistically, this test is invalid, but it is useful for SDS tolerance assessment.

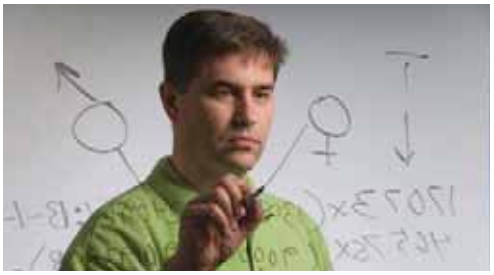
Test Site Description

Site	Soil Texture	Tillage	Spacing	Planting Date	Stand	SCN Pop.
Oakland	silty clay loam	no-till	15	5/19	142,900	n/a
Oskaloosa	silt loam	no-till	15	5/19	140,166	n/a
Washington	silty clay loam	no-till	15	5/19	136,100	n/a
Winterset	silty clay loam	minimum	15	5/18	162,000	n/a

2.9 - 3.6 Maturity Group — **Top 30 of 30 tested**

Company	Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Oakland	Oskaloosa	Washington#	Winterset
Dyna-Gro	33RY30	RR2Y	3.0	R	AC	**79.4**	10.3	32.5	$841.6	**77.3**	74.1	57.1	**86.9**
Kruger	K2-3402	RR2Y	3.4	R	AC	77.4	10.4	24.2	$820.4	**76.2**	71.0	61.8	**85.1**
Kruger	K2-3302	RR2Y	3.3	R	AC	76.6	10.8	34.5	$812.0	67.1	**74.9**	45.1	**87.8**
FS Seeds	HS33A02	RR2Y	3.3	R	AC	76.5	10.7	19.8	$810.9	**74.1**	**75.8**	55.5	79.7
Kruger	K2-3002	RR2Y	3.0	R	AC	76.3	10.5	36.0	$808.8	**75.8**	71.3	57.2	81.7
Dyna-Gro	37RY33	RR2Y	3.3	R	AC	75.7	10.4	34.2	$802.4	71.6	69.8	58.5	**85.7**
Titan Pro	28M40 GC	RR2Y	2.8	R	None	75.4	10.4	43.2	$799.2	69.0	**78.6**	44.6	78.5
FS Seeds	HS29A02	RR2Y	2.9	R	AC	74.9	10.7	24.3	$793.9	65.4	74.3	45.3	**85.0**
Channel	3502R2	RR2Y	3.5	R	AC	74.8	10.5	33.0	$792.9	73.6	69.9	45.1	80.9
Kruger	K2-3103	RR2Y	3.1	R	AC	74.2	10.2	30.9	$786.5	69.0	73.1	54.4	80.6
Prairie Brand	PB-3442R2	RR2Y	3.4	R	CM	73.9	10.5	36.6	$783.3	**75.1**	68.3	63.7	78.3
Channel	3002R2	RR2Y	3.0	R	AC	73.8	10.8	47.8	$782.3	68.5	69.8	54.0	83.0
Dyna-Gro	38RY35	RR2Y	3.5	R	AC	73.1	10.5	49.3	$774.9	**74.7**	64.0	58.0	80.6
Channel	3402R2	RR2Y	3.4	R	AC	72.5	10.3	26.5	$768.5	**75.7**	66.5	44.8	75.4
Prairie Brand	PB-3239NRR2	RR2Y	3.2	R	CM	72.4	10.4	31.3	$767.4	67.2	70.3	58.6	79.8
FS Seeds	HS35A02	RR2Y	3.5	R	AC	71.6	10.5	45.5	$759.0	70.9	60.5	53.0	83.5
Kruger	K2-2902	RR2Y	2.9	R	AC	71.5	11.0	52.7	$757.9	64.5	65.7	60.8	**84.3**
Kruger	K2-2803	RR2Y	2.8	R	AC	71.0	10.7	11.7	$752.6	72.6	64.3	60.9	76.1
Dyna-Gro	37T33	RR,STS	3.3	MR	CM	71.0	10.5	15.2	$752.6	67.3	71.2	47.9	74.4
Asgrow	AG2830 GC	RR2Y	2.8	R	AC	70.7	10.7	30.6	$749.4	64.8	63.9	55.4	83.3
SOI	STAR 3325NRR2Y	RR2Y	3.3	R	CM	70.6	10.5	47.1	$748.4	65.0	63.4	53.5	83.4
SOI	3422NRR	RR	3.4	R	None	70.4	10.4	7.6	$746.2	69.9	66.7	41.8	74.7
Kruger	K2-3602	RR2Y	3.6	R	AC	69.4	11.1	42.9	$735.6	60.8	72.4	47.8	75.1
FS Seeds	HS32A02	RR2Y	3.2	R	AC	68.9	10.6	17.6	$730.3	60.9	65.5	64.0	80.3
FS Seeds	HS31A02	RR2Y	3.1	R	AC	68.7	10.3	13.2	$728.2	61.5	62.9	66.3	81.6
Prairie Brand	PB-2959NRR2	RR2Y	2.9	R	AC	68.6	10.1	25.2	$727.2	70.4	59.0	61.9	76.5
Kruger	K2-3601	RR2Y	3.6	R	AC	68.0	11.0	33.8	$720.8	64.2	63.9	38.5	75.9
Prairie Brand	PB-3152R2	RR2Y	3.1	R	AC	67.5	10.5	23.2	$715.5	60.3	64.9	58.9	77.3
Prairie Brand	PB-3892R2	RR2Y	3.8	R	CM	67.4	10.6	32.6	$714.4	63.0	59.2	48.1	80.0
Prairie Brand	PB-3532R2	RR2Y	3.5	R	CM	67.3	10.7	59.9	$713.4	56.5	65.4	52.0	79.9
Site Averages =						**72.3**	**10.6**	**32.1**	**$766.6**	**68.4**	**68.0**	**53.8**	**80.5**
LSD (0.10) =						5.9	0.4	16.0		5.7	6.9	20.9	3.7

= rejected results, not included in summary



SEEDING SUCCESS

In plant breeding, the highest yield and lowest risk come from diversified genetics

Genetic diversity is the key to crop security, and nowhere is the importance of genetic diversity emphasized more than in Slater, Iowa, one of 22 Syngenta Seeds corn and soybean breeding and testing sites. A walk through the corn testing sites shows that these hybrids have been developed to sprout red, pink or yellow anthers and produce silks ranging from yellow to red, with several shades in between.

"This is a reflection of the genetic diversity that we're bringing to the row crop market," explains Geater. "We're seeing differences in color, height and leaf architecture because we're bringing together genetic parents that have never met before."

Syngenta seed breeding material comes from many different sources, including germplasm collections from Garst, Golden Harvest, CHS, and NK and GreenLeaf Genetics for corn and soybeans, AgriPro for wheat, and ROGERS for vegetables. Many of these collections were developed from independent gene pools.

"When Syngenta combined the corn germplasm collections under one roof, it created opportunities for genetic combinations that would have been impossible just a few years ago," says Geater.

More Choices, More Yield

Today, Syngenta has more parent material for corn and soybeans than any other seed company. Beyond variations in plant shape and color, the genetic diversity is pushing yield to new highs and risk to new lows.

"Plant breeding is like grain marketing," says Eric Boersma, corn portfolio manager with Syngenta Seeds. "You don't want to lock into one price, nor do you want to lock into one genetic family." In corn, for example, a germplasm collection that lacks the correct gene for a specific disease tolerance will never be able to produce a hybrid with tolerance to that disease.

"When your genetic pool is limited, you have fewer opportunities to improve product performance, and you expose the crop to more risk from unexpected pest and weather stresses," says Boersma. "We saw this happen this season with outbreaks of Goss's Wilt throughout the Corn Belt. Growers who planted a narrow range of hybrids with susceptibility to this disease were exposed to much more risk than growers who planted hybrids with more genetic diversity, and they paid the price for it."

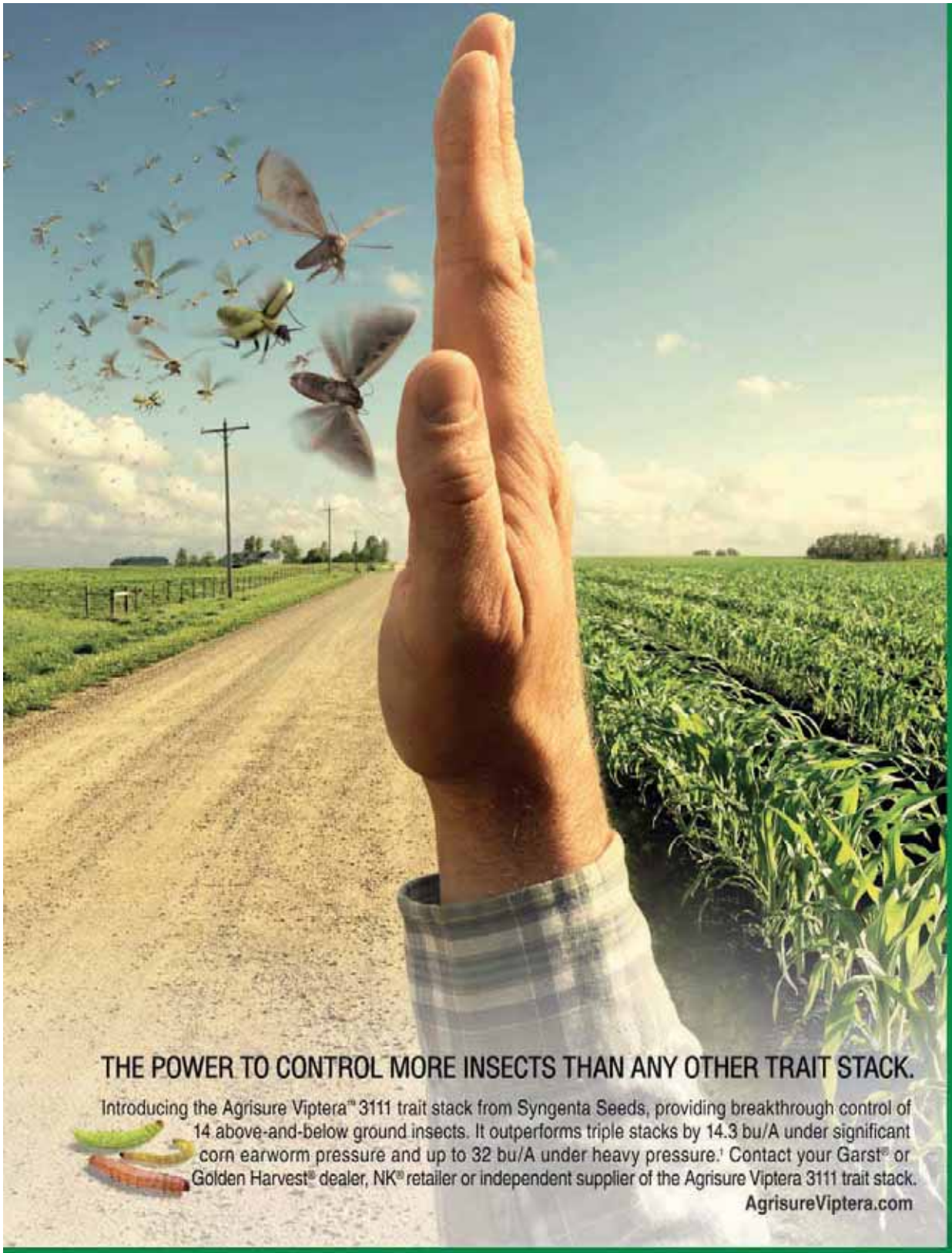
Higher Highs

By pushing the highs and lifting the lows, genetic diversity is generating a new level of yield potential that's just beginning to flow through the Syngenta corn pipeline.

"Things started to get really exciting about three years ago," says Geater. "By then, we had sorted out the strengths of each collection, and we could start mixing and matching the genetics in a way that would create a significant step change in product performance."

In 2007, for example, corn products in late-stage development yielded an average of 4 to 6 bushels per acre more than competitive products with comparable characteristics. Just two years later, products at the same stage of development averaged 8.5 to 10 bushels per acre more than comparable competitive products.

"It's a clear yield trend that gives proof to what we inherently know to be true: Greater genetic diversity equals greater yield and reduced risk," says Boersma.



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[1] 2007-2009 Syngenta data from replicated trials in locations with natural pest pressure.