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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.

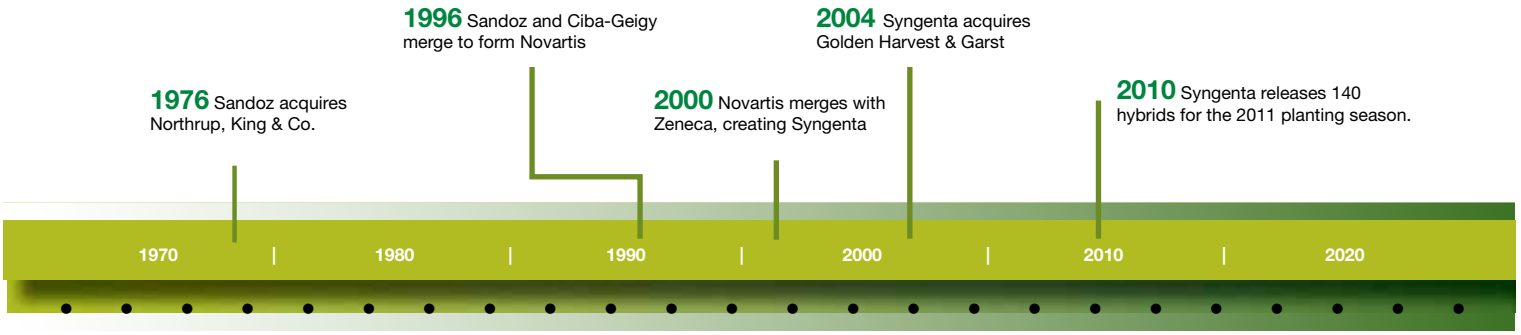
Growers know that a diverse genetic base means more than delivering outstanding yield. It also means more consistency and reduced risk.

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 Central and Southern Illinois, Indiana and Ohio
As well as parts of Pennsylvania, Maryland and Delaware

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.

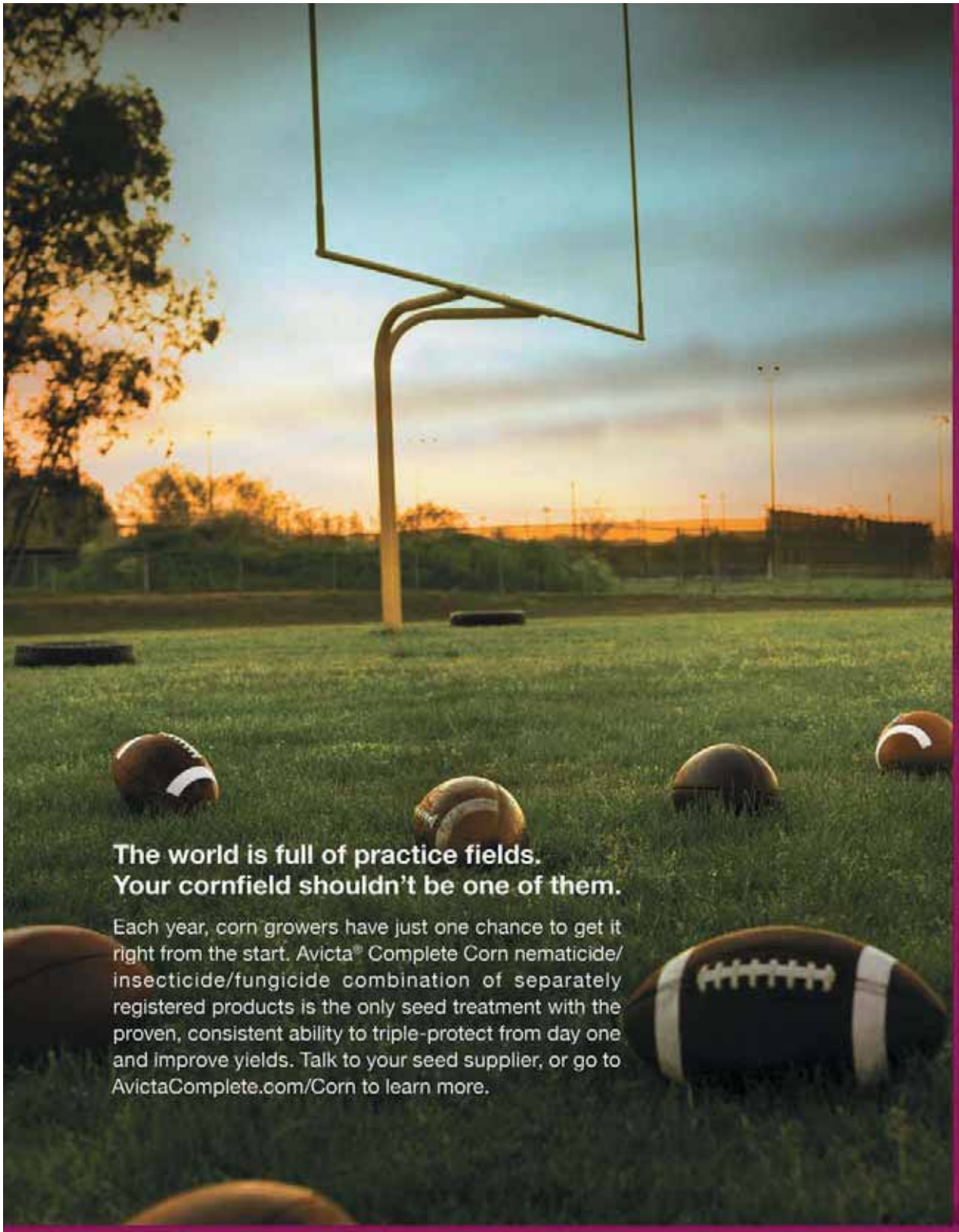
identifies rejected results that are omitted from summary

** 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

syngenta®

Farmer's Independent Research of Seed Technologies

ILWC Illinois West Central Corn Results

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

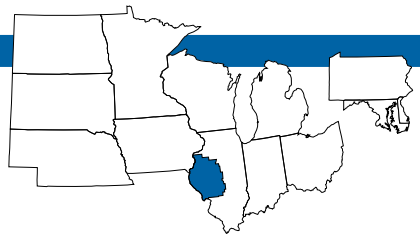
Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Clayton**	Easton#	Galva	Macomb	Virden**	Williamsville
Stone	6N52VT3	VT3	P250	**211.3**	17.9	2.4	$882.7	1	139.2	156.4	**225.9**	**236.6**	**218.0**	**236.9**
LG Seeds	LG2555VT3	VT3	P250	**210.3**	18.3	5.0	$876.4	2	118.7	150.1	**238.6**	**242.3**	**217.5**	**234.4**
Beck	5442VT3	VT3	P500	**206.5**	17.9	2.6	$862.7	3	112.3	170.9	**228.2**	**224.4**	**218.2**	**249.4**
Stine	9731VT3Pro	VT3P	P250	**206.3**	17.8	2.7	$862.3	5	127.1	153.3	**221.6**	**226.4**	**210.8**	**245.6**
Heritage	4610VT3	VT3	P250	**205.8**	17.6	3.8	$861.3	6	134.2	177.0	214.0	**232.1**	**219.9**	**228.6**
Dekalb	DKC58-83	VT3P	P250	**205.4**	17.0	4.1	$862.7	4	149.7	167.0	216.2	210.1	**217.8**	**233.0**
AgSource	5X-411B	HXT,RR2	C250	**205.4**	18.1	2.4	$857.0	7	**165.4**	162.1	**217.6**	220.2	207.2	216.6
Kruger	K-6010VT3	VT3	C250	**204.5**	17.5	2.0	$856.3	8	152.1	130.9	**220.9**	221.2	199.1	**229.4**
Great Lakes	5939G3VT3	VT3	P250	**203.7**	18.0	2.3	$850.4	9	138.9	168.0	210.8	**230.2**	198.8	**239.9**
Dyna-Gro	57V40	VT3	P250	**202.5**	17.8	1.7	$846.5	10	131.1	166.6	**223.8**	214.8	198.0	**245.0**
Channel	210-61VT3	VT3	P250	**202.1**	18.6	0.5	$840.7	12	109.2	101.7	214.6	**237.5**	**218.6**	**230.5**
NuTech	3T-110	VT3	C250	**201.3**	17.9	5.5	$840.9	11	103.0	114.8	**221.4**	**231.4**	205.6	**245.2**
LG Seeds	LG2549VT3	VT3	P250	**201.2**	18.1	0.4	$839.5	14	136.7	141.5	216.0	219.0	193.4	**240.8**
Dekalb	DKC57-50	VT3	P250	199.5	16.5	1.4	$840.4	13	**172.4**	148.7	203.6	210.0	195.2	216.4
Channel	209-77VT3	VT3	P250	199.2	17.4	1.9	$834.6	15	122.9	154.4	**218.5**	219.6	205.1	**229.7**
Horizon	66PV41R	VT3	P250	198.3	16.7	0.7	$834.3	16	146.7	150.9	205.6	219.4	206.3	213.7
AgriGold	A6458VT3	VT3	P250	197.7	18.3	2.5	$823.9	18	114.3	151.2	**220.8**	222.5	192.9	**237.8**
Dekalb	DKC59-35	VT3	P250	197.5	17.6	0.7	$826.5	17	152.6	139.9	213.0	200.9	197.8	223.1
Golden Harvest	H-8577 3000GT	3000GT	C500	196.9	17.7	5.2	$823.5	20	132.9	171.6	215.3	215.3	207.0	213.9
Beck	XL 5269HXR^*	HXT,RR2	P500	196.7	17.5	2.9	$823.7	19	144.8	148.1	216.6	195.3	191.4	**235.2**
Wyffels	W6871	VT3	P250	194.5	17.8	7.7	$813.0	22	97.1	172.5	**223.8**	214.4	207.3	**230.0**
AgriGold	A6476VT3	VT3	P250	194.3	18.0	0.4	$811.2	23	142.9	176.1	199.0	200.7	204.4	224.7
Dyna-Gro	V4993VT3	VT3	P250	194.2	16.9	4.5	$816.1	21	133.7	146.7	213.9	202.6	203.2	217.8
Merschman	Stine M-1109D-10	VT3	P500	193.0	17.4	3.8	$808.7	25	150.7	165.1	205.9	203.2	192.7	212.6
Croplan	6125VT3	VT3	C250	192.8	17.0	0.7	$809.8	24	124.6	149.9	199.9	204.2	199.8	**235.6**
Lewis	910VT3	VT3	P250	192.8	17.5	5.2	$807.4	27	123.6	168.2	**224.8**	205.0	182.4	**228.3**
Heritage	4602VT3	VT3	P250	192.6	17.8	2.6	$805.1	30	135.3	178.7	208.9	201.6	190.0	227.3
Beck	XL 5377HR^*	HX,RR2	P500	192.4	17.6	6.3	$805.2	29	150.5	159.7	195.7	205.6	197.2	212.8
Croplan	5757VT3	VT3	C250	192.3	16.8	1.3	$808.6	26	133.3	124.7	207.8	212.1	186.3	221.8
Croplan	5415VT3P	VT3P	C250	190.4	15.8	3.4	$805.4	28	146.0	148.5	178.3	202.3	194.9	**230.3**
Great Lakes	6069G3VT3 CK	VT3	P250	189.9	16.6	3.9	$799.5	35	134.9	152.5	195.6	212.0	189.9	217.0
Test Average =				**188.8**	**17.5**	**2.9**	**$791.0**		**128.3**	**145.3**	**202.4**	**206.9**	**190.1**	**216.6**
LSD (0.10) =				11.8	0.7	5.4			24.8	36.5	14.9	17.3	20.2	11.6

FULL SEASON TEST 111 - 114 Day CRM — Top 30 of 81 tested

Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Clayton**	Easton#	Galva	Macomb	Virden**	Williamsville
LG Seeds	LG2620VT3	VT3	P250	**215.6**	20.3	0.5	$887.7	1	156.9	128.5	**230.2**	**234.8**	213.6	**242.3**
Channel	214-14VT3P	VT3P	P250	**214.2**	19.4	0.5	$886.8	3	149.4	121.3	215.5	218.5	**235.3**	**252.2**
Stone	681-76VT3	VT3	P250	**214.0**	19.1	8.0	$887.6	2	**165.0**	145.4	**218.4**	225.1	**222.2**	239.3
AgriGold	A6553VT3	VT3	P250	**211.0**	20.9	0.2	$865.6	4	129.3	113.0	**218.2**	**252.5**	214.8	**240.1**
LG Seeds	LG2641VT3	VT3	P250	**207.9**	20.5	1.2	$855.0	6	156.6	153.6	203.9	**227.1**	218.1	234.0
Horizon	71PV08R	VT3	P250	**206.2**	18.4	3.0	$858.8	5	152.3	119.4	**218.3**	198.7	218.2	**243.5**
NuTech	G2 5X-215^	HXT,RR2	C250	**206.0**	20.2	3.2	$848.7	10	136.2	145.0	**223.0**	216.6	**221.2**	232.9
AgriGold	A6533VT3	VT3	P250	205.2	21.0	0.3	$841.3	12	135.5	141.1	205.3	222.6	**222.9**	239.6
Channel	213-32VT3	VT3	P250	204.7	21.8	0.5	$835.2	15	128.8	134.9	207.6	**231.6**	**220.1**	235.2
Kruger	K-6411VT3	VT3	C250	204.6	18.0	0.2	$854.2	7	138.2	140.9	**220.5**	207.2	**221.8**	235.3
Kruger	K-1211RR	RR2	P250	204.2	17.7	5.5	$854.1	8	153.7	152.7	205.0	221.6	210.8	229.8
Gateway	8812	VT3	C250	203.3	18.0	5.2	$848.8	9	136.7	138.3	**218.6**	208.6	218.1	234.3
Merschman	Stine M-911C-10	VT3	P500	203.1	18.5	9.4	$845.4	11	**162.2**	145.4	210.1	200.3	201.1	**242.0**
Great Lakes	6455G3VT3	VT3	P250	202.7	20.5	2.7	$833.6	16	146.1	162.3	206.6	**230.6**	197.1	232.9
Lewis	1011VT3	VT3	P250	202.3	18.9	3.0	$840.1	13	154.0	131.1	198.4	210.5	216.5	232.1
Golden Harvest	H-9138 3000GT	3000GT	C500	200.8	21.0	0.4	$823.3	21	132.2	126.4	**218.2**	222.5	193.7	237.3
Croplan	6286VT3P	VT3P	C250	200.6	19.6	6.2	$829.5	17	145.7	139.2	204.4	203.3	207.4	**242.2**
Garst	83X61-3000GT	3000GT	C500	200.5	20.8	4.0	$823.1	22	150.0	124.2	216.2	211.4	203.6	221.4
Stine	9806VT3	VT3	P250	200.2	22.0	1.0	$815.8	24	154.7	147.1	215.1	220.5	191.6	219.0
FS Seeds	FS63MV4	VT3P	P250	200.1	20.4	6.3	$823.4	20	119.5	157.0	214.1	219.9	**221.9**	225.3
Great Heart	HT-200VT3P	VT3P	P250,V	199.7	20.2	3.3	$822.8	23	146.5	107.2	202.2	222.4	198.1	229.1
Stone	6413VT3	VT3	P250	198.7	21.5	6.5	$812.2	27	147.3	150.4	212.0	198.9	204.9	230.5
NuTech	3A-511A	RR2	C250	198.5	18.0	11.8	$828.7	18	118.4	125.0	**226.4**	217.1	202.9	227.9
FS Seeds	FS64JV3	VT3	P250	197.5	21.0	0.2	$809.8	29	120.9	109.4	212.0	197.4	219.2	238.0
Garst	84Y14-3000GT	3000GT	C500	196.8	19.3	4.2	$815.2	25	138.3	149.3	**222.6**	202.9	205.4	214.8
Dekalb	DKC61-69	VT3	P250	196.4	17.3	3.5	$823.4	19	137.3	158.6	209.9	185.6	**224.3**	224.9
Kruger	K-6213VT3	VT3	P250	196.4	20.6	0.0	$807.2	30	107.1	156.7	**225.6**	216.9	198.8	233.8
Heritage	4642VT3	VT3	P250	195.8	19.4	5.0	$810.6	28	127.9	**174.4**	205.7	218.8	206.1	220.4
Great Heart	HT-212VT3	VT3	P250,V	195.6	18.5	0.3	$814.2	26	153.1	148.0	201.6	199.1	207.7	216.6
Withdrawn	EX7911	VT3P	P250	192.5	17.7	0.2	$805.1	31	**160.5**	147.2	208.9	192.2	175.0	226.0
Great Lakes	6069G3VT3 CK	VT3	P250	200.1	17.2	0.1	$839.4	14	**159.4**	125.5	208.8	205.6	199.7	227.2
Test Average =				**192.0**	**19.9**	**2.4**	**$792.9**		**130.9**	**134.1**	**202.7**	**202.9**	**198.5**	**225.3**
LSD (0.10) =				13.4	1.1	5.7			26.5	37.4	14.7	23.3	21.5	14.4

** = full tests, 2 replications; # = rejected results, not included in summary

Eric Beyers, FIRST Manager



Stats:
Yield Range: 70.7 to 252.5 bu. per acre
Yield Average: 182.0 bu. per acre
Top $ Per Acre: $1,047.90

Field Notes: Illinois West Central

Williamsville – This test site had excellent kernel depth, due in part to timely July rainfall. Gray leaf spot disease pressure was moderately high (fungicide was applied). The corn stood very well and there was no lodging. The average yield here was 216.6 bu. per acre and 225.3 bu. per acre for the early-season test and the full-season test, respectively.

Galva – Al Johnston applies his anhydrous nitrogen and dry fertilizers in a strip-till one-pass fall application. This process complements the rolling terrain by providing precise placement of row nutrients while maintaining valuable soil profiles in somewhat erodible soil terrain. The tests were planted directly into this strip-till zone. The results showed better seedling vigor, faster emergence and early-season corn development. At harvest, the site had very good ear development and kernel depth. Prior to flowering, severe winds green-snapped some hybrids, which reduced their final stand and yield. Moderate levels of gray leaf spot were present. The early- and full-season yield averages were 202.4 bu. per acre and 202.7 bu. per acre, respectively.

Macomb – Fields in this area yielded between 30 and 230 bu. per acre. The low-lying areas held too much rainfall. The soil surface between the corn rows in the plot was carpeted with an Irish-hued moss. The lodging scores consist of stalk lodging, root lodging and green snapping. Our test produced higher-end yields for this area at 206.9 and 202.9 bu. per acre for the early- and full-season tests, respectively.

Virden – While harvesting, it became apparent that the third replication of the corn tests exhibited lower yield variances than the first and second replications. These fields usually provide consistent data, so I asked Roger Ladage what happened. He explained, "It's like that everywhere this year. The combine monitor will show good yields, and then it may drop off. Low-yielding corn looks normal except for poor ear development." This year, yield results like these could be caused by soil compaction, flooding, denitrification, high heat in late August or any combination of these factors.

Easton – After emergence, this site did not get a break from the rain, and any slight depression held water. High heat in August did not help. At harvest, uneven plant heights and plant development was visually evident. In the end, unacceptable yield variability caused the data from this test to be rejected.

Clayton – The continuous rains throughout the growing season resulted in decreased yields. Field compaction in 2009 (previously planted with corn, conventional without fall tillage) together with 2010 rains diminished normal root growth. Root lodging in the plot was very abundant. Some nitrogen may have washed away with the constant rain.

Test Site Description						Test Average			Yield Check Comparison (Great Lakes 6069G3VT3)		
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	Stand (per A)	Lodging (%)	Yield (Bu/A)	Early Test	Full Test	*Difference
Clayton	silty clay loam	conventional	Corn, 2+ yr	165	5/26	33,100	9.7	129.6	134.9	159.4	-24.5
Easton	silt loam	minimum	Soybean	165	5/5	32,550	1.0	139.7	152.5	125.5	27.0
Galva	silty clay loam	strip-till	Soybean	205	5/5	33,950	1.0	202.6	195.6	208.8	-13.2
Macomb	silty clay loam	minimum	Soybean	180	5/6	33,600	1.9	204.9	212.0	205.6	6.4
Virden	silt loam	minimum	Corn	200	5/7	34,100	0.7	194.3	189.9	199.7	-9.8
Williamsville	silt loam	minimum	Soybean	140	4/30	31,050	0.0	221.0	217.0	227.2	-10.2

*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

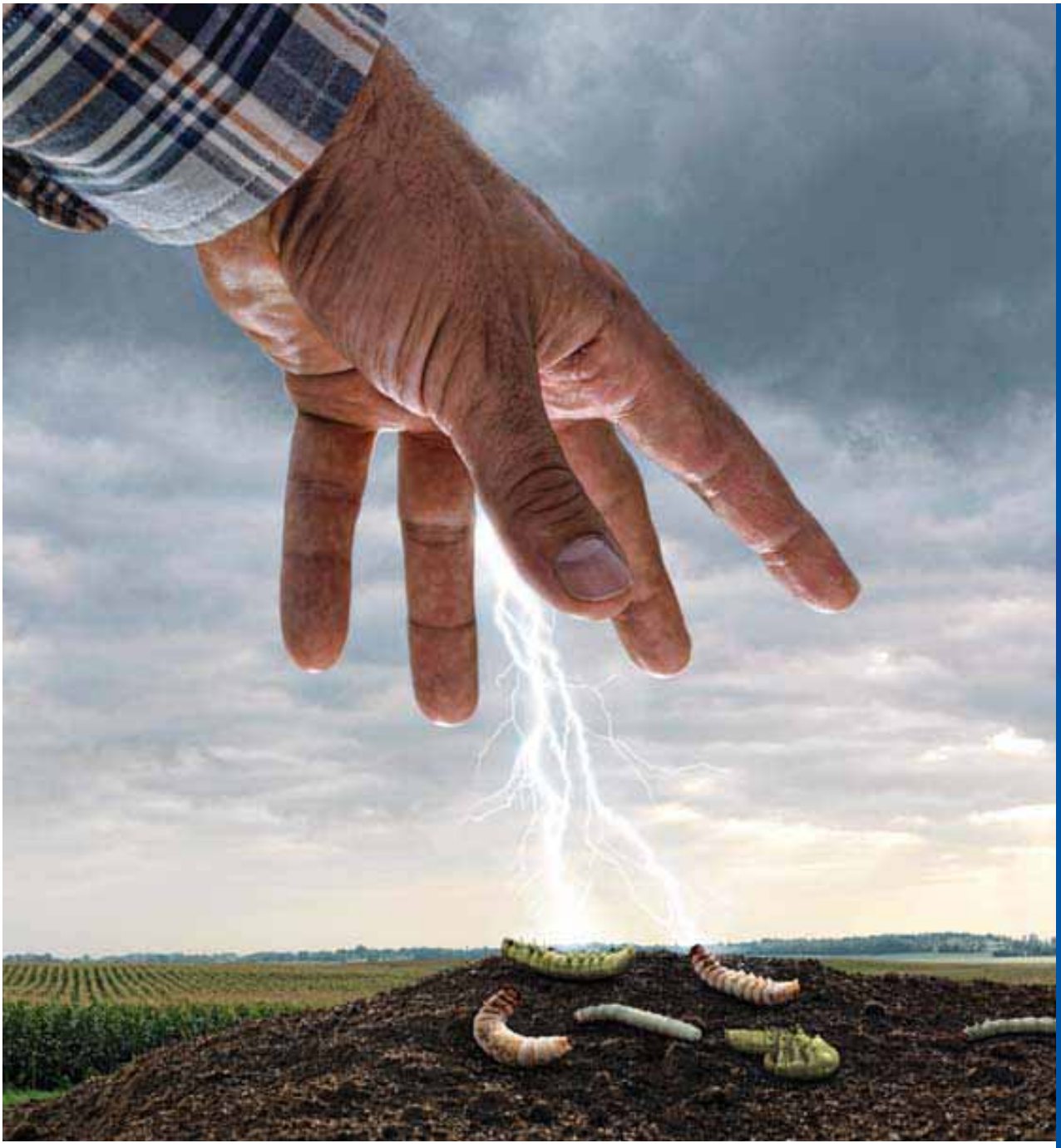
ILEC Illinois East Central Corn Results

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	Bethany	Forsyth	Rossville	Towanda	Tuscola	Watseka
Channel	209-77VT3	VT3	P250	**215.3**	16.5	0.4	$907.0	1	**220.1**	**214.0**	**189.1**	**212.6**	**215.1**	**240.6**
Heritage	4610VT3	VT3	P250	**212.2**	17.4	0.2	$889.1	3	**219.1**	**216.6**	188.4	**217.3**	**206.6**	**224.9**
Stine	9731VT3Pro	VT3P	P250	**212.1**	17.2	3.7	$889.8	2	**216.3**	**238.1**	**190.4**	**213.3**	**204.4**	209.9
Kruger	K-6010VT3	VT3	C250	**211.0**	17.5	0.1	$883.6	4	201.1	**215.0**	**197.9**	**216.6**	**214.8**	220.3
LG Seeds	LG2555VT3	VT3	P250	**209.3**	17.3	0.9	$877.5	5	**223.3**	**216.3**	188.0	**209.0**	**205.5**	213.5
NuTech	3T-110	VT3	C250	**208.1**	17.3	6.3	$872.5	6	**211.8**	**235.6**	172.6	**202.0**	**212.8**	214.0
Wyffels	W6871	VT3	P250	**207.3**	17.2	4.8	$869.6	7	**211.9**	**223.6**	179.3	**209.5**	**205.8**	213.5
Sun Prairie	SP617VT3	VT3	P250	**207.1**	17.3	7.6	$868.3	9	**217.9**	**216.8**	179.0	198.6	**211.7**	218.8
Stone	6N52VT3	VT3	P250	**207.0**	17.2	0.6	$868.4	8	185.3	**216.0**	**203.9**	**218.1**	194.4	**224.0**
Dyna-Gro	57V40	VT3	P250	**205.8**	17.2	2.0	$863.3	10	**225.8**	**215.2**	179.3	**204.2**	**206.7**	203.6
NuTech	G2 5X-411^	HXT,RR2	C250	**204.1**	18.3	0.6	$850.6	12	**210.5**	208.2	168.5	**210.6**	193.8	**232.8**
Channel	210-61VT3	VT3	P250	**203.9**	17.9	0.3	$851.8	11	**206.3**	208.4	**194.6**	**214.0**	200.9	199.3
Garst	85E98-3000GT	3000GT	C500	**202.2**	17.0	0.3	$849.2	13	199.2	206.5	**189.2**	**206.0**	201.7	210.8
Croplan	6125VT3	VT3	C250	**199.8**	15.9	1.0	$844.7	14	205.8	**217.1**	187.4	191.5	196.8	200.3
Lewis	910VT3	VT3	P250	**199.5**	16.3	3.4	$841.4	15	185.4	**226.1**	185.0	196.2	**205.8**	198.4
Beck	5442VT3	VT3	P500	**199.2**	16.9	2.9	$837.1	18	**206.2**	206.0	171.9	**212.6**	196.0	202.2
Heritage	4602VT3	VT3	P250	**199.1**	16.6	1.3	$838.2	17	192.9	**221.2**	188.7	**205.3**	198.4	188.1
Dekalb	DKC58-83	VT3P	P250	**198.9**	16.2	0.5	$839.4	16	202.9	193.0	**190.0**	189.2	197.1	220.9
Croplan	6425VT3P	VT3P	C250	198.2	17.1	2.9	$831.9	19	192.0	203.2	185.4	**202.1**	201.8	204.7
NuTech	G2 5X-908^	HXT,RR2	C250	196.9	17.8	0.1	$823.0	24	199.8	193.7	188.6	199.0	186.4	214.0
Bo-Jac	9459	3000GT	C250	196.3	17.3	0.8	$823.0	25	196.3	210.2	187.6	183.5	195.6	204.4
AgriGold	A6458VT3	VT3	P250	196.1	16.2	0.3	$827.5	20	193.2	201.2	185.7	**208.0**	197.4	191.2
Dekalb	DKC59-35	VT3	P250	196.0	16.4	0.1	$826.1	21	**207.5**	205.6	161.6	197.0	196.1	207.9
Golden Harvest	H-8969 3000GT	3000GT	C500	195.7	16.7	0.1	$823.4	23	202.3	**221.3**	169.7	188.4	202.5	190.2
LG Seeds	LG2549VT3	VT3	P250	195.6	16.5	0.2	$824.0	22	195.2	199.5	175.8	194.2	**207.0**	201.9
Golden Harvest	H-8577 3000GT	3000GT	C500	194.9	16.8	1.6	$819.6	27	179.9	202.7	**197.1**	196.2	185.8	207.7
Great Lakes	5939G3VT3	VT3	P250	194.2	16.0	1.0	$820.5	26	175.8	199.7	180.5	198.9	**208.9**	201.3
Heritage	4620VT3	VT3	P250	193.8	17.4	2.2	$812.0	29	202.2	190.4	171.7	198.8	190.7	208.7
Dyna-Gro	V4993VT3	VT3	P250	192.1	15.4	1.2	$814.5	28	191.6	201.2	175.8	188.8	199.2	195.9
Dekalb	DKC57-50	VT3	P250	191.6	15.5	0.2	$811.9	30	187.1	211.4	178.1	194.6	189.5	189.1
Great Lakes	6069G3VT3 CK	VT3	P250	183.6	15.7	5.7	$777.1	47	185.6	183.2	172.7	167.4	182.1	210.6
Test Average =				**188.7**	**16.5**	**2.3**	**$794.7**		**188.6**	**196.4**	**171.2**	**186.7**	**188.7**	**200.3**
LSD (0.10) =				9.8	0.7	5.8			17.4	16.1	17.9	13.0	14.8	20.9

FULL SEASON TEST 111 - 114 Day CRM — Top 30 of 72 tested

Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Bethany	Forsyth	Rossville	Towanda	Tuscola	Watseka
LG Seeds	LG2620VT3	VT3	P250	**215.9**	19.2	1.7	$894.9	1	**221.5**	216.9	**203.1**	**216.0**	**215.1**	222.8
Golden Harvest	H-9138 3000GT	3000GT	C500	**213.6**	19.4	0.1	$884.3	2	215.1	**219.2**	**197.5**	**212.0**	**218.1**	219.9
Channel	214-14VT3P	VT3P	P250	**211.1**	18.5	0.2	$878.7	4	**224.8**	206.9	188.0	198.7	211.3	**237.1**
Heritage	4642VT3	VT3	P250	**210.9**	18.0	0.2	$880.5	3	212.4	**226.2**	**194.8**	**205.8**	207.1	219.3
LG Seeds	LG2641VT3	VT3	P250	**209.6**	18.2	1.5	$874.0	5	215.0	215.3	**197.6**	194.8	**218.4**	216.5
AgriGold	A6553VT3	VT3	P250	**208.4**	18.3	1.2	$868.5	6	**228.6**	**232.4**	182.6	173.8	**218.7**	214.4
Great Heart	HT-200VT3P	VT3P	P250,V	**208.1**	18.6	0.2	$865.7	7	208.1	199.8	**202.4**	**204.4**	210.8	223.3
Garst	83R38-3000GT	3000GT	C250	**208.1**	19.3	0.7	$862.1	11	208.3	213.9	187.5	**211.7**	205.9	221.3
Stone	8T468VT3	VT3	P250	**208.0**	18.8	0.4	$864.2	8	**222.9**	189.4	192.0	**203.7**	**218.2**	221.8
FS Seeds	FS63MV4	VT3P	P250	**207.8**	19.0	0.6	$862.4	10	216.5	212.6	**201.3**	198.5	199.6	218.2
Channel	213-32VT3	VT3	P250	205.9	19.0	0.2	$854.5	13	209.8	195.5	**201.1**	**217.1**	204.7	207.3
Great Lakes	6354G3VT3	VT3	P250	205.8	18.5	0.4	$856.6	12	**218.6**	183.4	**194.8**	**223.6**	210.8	203.4
Wyffels	W8681	VT3	P250	205.5	19.8	1.0	$848.7	19	**220.3**	**222.0**	181.5	185.9	**215.0**	208.4
Sun Prairie	SPX2710VT3P	VT3P	P250	204.9	19.2	0.1	$849.3	17	209.4	200.8	**198.6**	**209.7**	206.2	204.8
Dekalb	DKC61-69	VT3	P250	204.2	15.8	1.6	$863.8	9	206.5	204.9	182.3	**211.1**	201.2	219.4
Dairyland	ST9414	VT3	P250	203.9	19.9	0.3	$841.6	23	**219.6**	205.9	166.1	**207.1**	213.2	211.6
Garst	84Y14-3000GT	3000GT	C500	203.4	17.8	0.7	$850.2	16	195.8	205.4	**203.8**	177.2	201.2	**236.8**
Gateway	8812	VT3	C250	203.3	17.2	1.4	$852.8	14	197.0	193.6	180.3	**211.5**	**214.8**	222.4
Great Lakes	6455G3VT3	VT3	P250	203.0	18.5	0.5	$845.0	21	204.0	201.0	182.2	**208.8**	210.1	211.9
AgriGold	A6533VT3	VT3	P250	203.0	18.7	0.2	$844.0	22	209.5	207.8	**195.4**	184.3	211.6	209.5
Croplan	6286VT3P	VT3P	C250	202.7	17.1	0.6	$850.8	15	194.7	206.3	**196.3**	**206.2**	197.9	214.7
FS Seeds	FS61BX1	SS	P250	202.6	17.4	0.3	$848.9	18	215.7	196.6	179.3	199.8	195.4	**228.8**
FS Seeds	FS62JV3	VT3	P250	202.5	17.7	1.2	$847.0	20	211.5	202.8	181.2	193.2	203.5	222.7
NuTech	5N-215	3000GT	C250	200.7	19.1	4.8	$832.4	28	**217.3**	216.5	176.6	189.7	195.1	208.9
FS Seeds	FS64JV3	VT3	P250	200.6	18.7	0.4	$834.0	27	203.1	203.1	182.6	200.6	197.1	217.1
Horizon	73PR15R	VT3P	P250	200.2	18.0	13.6	$835.8	25	214.3	214.5	179.3	179.4	212.4	201.4
Stone	6413VT3	VT3	P250	200.0	19.1	0.0	$829.5	29	205.6	193.0	186.4	185.4	213.6	216.0
Horizon	71PV08R	VT3	P250	199.7	16.8	4.2	$839.7	24	209.0	212.5	180.8	187.5	201.8	206.3
Dairyland	ST9313	VT3	C250	199.3	17.6	1.1	$834.1	26	**219.7**	203.6	171.2	183.6	205.4	212.5
Croplan	6463SS	SS	C250	198.4	18.4	0.0	$826.3	30	197.2	191.6	183.4	**203.8**	204.5	209.9
Great Lakes	6069G3VT3 CK	VT3	P250	177.2	15.5	1.8	$750.9	68	176.0	194.3	168.3	147.5	177.5	199.3
Test Average =				**195.7**	**18.2**	**1.9**	**$816.2**		**202.0**	**197.6**	**179.1**	**183.7**	**200.5**	**211.4**
LSD (0.10) =				10.5	0.8	5.2			15.1	19.4	13.7	19.6	14.3	17.0



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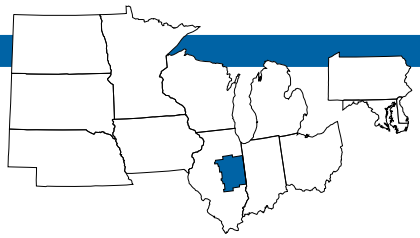


Stats:
Yield Range: 130.9 to 240.6 bu. per acre
Yield Average: 192.2 bu. per acre
Top $ Per Acre: $993.70

Field Notes: Illinois East Central

Forsyth – June was very wet, with over 15" of rain, which slowed seedling development. Jim Cullison commented that "around July 15 this field received 1.5" rain but, other than that, it was dry in July." High heat in August rushed plant maturity. Harvested ear sizes ranged from 3" to 4" for many hybrids. Despite these challenges, fields yielded an average of 196.4 bu. and 197.6 bu. per acre in the early- and full-season tests, respectively.

Towanda – In an attempt to minimize soil compaction, Judson Stover used a Dawn Pluribus strip-till toolbar in March to ready fields for corn planting. All nitrogen levels were applied in a sidedressing form into the strip-till area after seedlings had emerged. Stover mentioned that this field received only ¾" of rain for the entire month of July. High heat in August reduced the ear size and consistency. Some of the hybrids ears ranged from 3" to 4" in length. Lodging consisted of mostly stalk rot, although a few hybrids exhibited serious root lodging, which would suggest that corn rootworm pressure was high.

Bethany – Dave Shelton's timing and placement of nitrogen helped this corn-on-corn strip-till site produce good yields. The plot exhibited good medium-height plant growth and stood well. High heat in August reduced ear development in some hybrids. The average yield for the early test was 188.6 bu. per acre and the average yield for the full-season test was 202 bu. per acre.

Tuscola – John Carmack said that "this field had consistent stands, yields, and test weight (56 to 57 lbs. per bushel)." A July 19 rain (1.8") helped grain fill, but harvested ears were small in diameter. This may be partially due to a dry August with rainfall totals equaling 0.7". The lodging scores reflect limited green snapping in a few hybrids. Yields at this location averaged 188.7 bu. per acre for the early-season test and averaged 200.5 bu. per acre in the full-season test.

Rossville – Kevin Weinard commented on the field and weather this year by saying, "Considering the year, you've got to be happy about the good corn yields we're seeing." June was wet, July was dry and August was hot! Corn rootworm pressure was high this year. Any non-RW hybrids in the test were easily spotted because of their abundant root lodging. The lodging scores mainly reflect root lodging with an occasional stalk rot.

Watseka – This plot saw more midseason rain than some of the other test sites in this region. Linden Wessels reported that his field's rain totals were 3" to 4" in July and 2.25" in August. The harvested ears here had large diameters, but some hybrid ear lengths were smaller from lack of rain and high heat during early August. The lodging scores here reflect stalk rot.

Test Site Description						Test Average			Yield Check Comparison (Great Lakes 6069G3VT3)		
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	Stand (per A)	Lodging (%)	Yield (Bu/A)	Early Test	Full Test	*Difference
Bethany	silt loam	strip-till	Corn, 2+ yr	214	4/30	34,650	0.1	195.3	185.6	176.0	9.6
Forsyth	silty clay loam	minimum	Soybean	184	4/29	33,750	0.1	197.0	183.2	194.3	-11.1
Rossville	silty clay loam	minimum	Soybean	186	4/23	33,600	3.2	175.2	172.7	168.3	4.4
Towanda	silty clay loam	strip-till	Soybean	150	4/29	34,400	4.3	185.2	167.4	147.5	19.9
Tuscola	silty clay loam	no-till	Soybean	145	4/22	33,450	0.2	194.6	182.1	177.5	4.6
Watseka	sandy loam	minimum	Soybean	141	4/28	34,500	4.7	205.9	210.6	199.3	11.3

*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

EARLY SEASON TEST 108 - 112 Day CRM — Top 30 of 54 tested

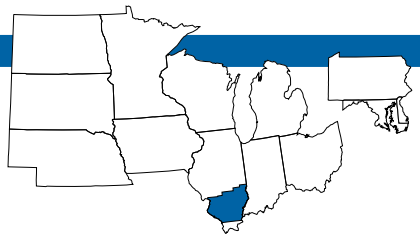
Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Belleville	Du Quoin	Flora	Marshall	Salem**	Vandalia
LG Seeds	LG2555VT3	VT3	P250	**183.2**	15.7	1.1	$775.4	1	**219.5**	**178.5**	139.0	182.8	169.9	209.4
Great Lakes	5939G3VT3	VT3	P250	**179.2**	15.3	0.3	$760.3	2	**221.9**	**174.4**	128.0	178.5	162.0	210.5
Stone	6013VT3	VT3	P250	**177.8**	15.5	0.1	$753.4	3	**215.5**	152.1	139.0	164.4	**175.6**	220.2
AgriGold	A6458VT3	VT3	P250	**177.3**	15.3	0.0	$752.2	4	208.8	166.3	**139.9**	163.9	166.5	218.2
Kruger	K-6010VT3	VT3	C250	**174.8**	15.6	0.0	$740.3	5	209.1	**170.6**	**140.1**	177.6	147.0	204.5
Croplan	6463SS	SS	C250	**174.1**	16.0	0.2	$735.6	8	**213.4**	159.8	121.2	174.2	148.3	**227.9**
LG Seeds	LG2549VT3	VT3	P250	**174.0**	15.2	0.0	$738.6	6	**213.0**	167.6	131.0	170.5	146.6	215.2
Croplan	6425VT3P	VT3P	C250	**174.0**	15.8	0.5	$736.0	7	203.9	159.2	138.7	170.5	165.1	206.8
Croplan	6125VT3	VT3	C250	172.5	15.0	0.3	$733.1	9	**222.7**	165.4	138.0	150.2	150.5	208.3
Wyffels	W7071	VT3	P250	172.3	15.7	0.0	$729.3	10	209.1	144.7	**146.4**	167.2	151.8	214.8
AgriGold	A6489VT3	VT3	P250	172.2	16.7	0.5	$724.5	12	209.9	165.6	139.2	157.9	156.1	204.6
AgriGold	A6476VT3	VT3	P250	171.6	15.8	0.5	$725.9	11	199.5	161.3	**148.2**	162.4	154.3	203.8
Stone	6223VT3	VT3	P250	170.6	16.1	0.2	$720.4	16	200.3	**171.5**	133.7	160.7	143.5	213.6
Horizon	72A06Q	3000GT	P250	170.5	15.8	0.0	$721.2	13	196.8	160.9	**142.0**	160.3	144.1	218.8
Beck	6288A3	3000GT	P500	170.5	16.6	0.0	$717.8	17	198.0	161.0	135.0	171.9	154.9	202.1
Beck	6179VT3	VT3	P500	170.4	15.8	0.0	$720.8	15	204.0	138.7	**144.7**	166.3	159.5	209.4
Wyffels	W6871	VT3	P250	170.2	15.5	0.0	$721.2	14	199.4	166.0	126.5	153.7	152.4	223.1
Stine	9731VT3Pro	VT3P	P250	169.3	15.5	2.8	$717.4	18	181.0	**168.9**	110.6	180.4	165.0	209.7
Channel	210-61VT3	VT3	P250	169.3	15.6	0.1	$717.0	19	202.8	144.5	133.2	165.0	168.5	202.0
Beck	5442VT3	VT3	P500	169.2	15.7	1.4	$716.1	21	203.3	154.3	127.5	165.6	155.6	208.6
Stone	6204GVT3P	VT3P	P250	168.8	15.6	0.3	$714.9	23	**215.0**	152.5	125.7	154.6	148.3	216.5
Heritage	4602VT3	VT3	P250	168.5	15.4	0.4	$714.4	24	191.8	164.7	130.6	166.5	153.5	203.9
Kruger	K-6408VT3	VT3	P250	168.3	14.7	0.3	$716.5	20	189.3	141.8	131.3	166.2	168.9	212.4
LG Seeds	LG2616VT3	VT3	P250	168.1	15.7	0.1	$711.5	26	193.0	163.3	137.3	149.5	150.7	214.5
FS Seeds	FS62JV3	VT3	P250	168.0	16.0	0.0	$709.8	28	204.3	166.3	133.3	162.3	147.1	194.4
Kruger	K-6411VT3	VT3	C250	167.9	15.0	0.1	$713.6	25	194.1	162.3	129.1	169.1	145.4	207.6
Dyna-Gro	57V40	VT3	P250	167.2	15.5	0.0	$708.5	29	196.5	154.1	120.4	157.2	160.1	214.7
Croplan	6150VT3	VT3	C250	167.1	15.0	0.0	$710.2	27	210.7	157.6	125.1	144.6	160.4	204.2
Dyna-Gro	D52Q90*	3000GT	P250	167.1	15.8	0.0	$706.8	30	196.6	147.5	137.2	136.9	166.4	217.7
Wyffels	XW6927	RR2	P250	166.2	14.9	0.2	$706.8	31	**214.0**	117.2	122.7	152.9	164.1	**226.5**
Beck	5716A3 CK	3000GT	P500	168.8	15.5	0.1	$715.3	22	200.6	149.2	135.4	178.3	145.5	203.8
Test Average =				**166.7**	**15.6**	**0.6**	**$706.0**		**200.0**	**152.8**	**128.7**	**163.1**	**150.2**	**205.2**
LSD (0.10) =				6.0	0.6	9.4			12.6	15.8	11.2	20.0	23.7	19.3

FULL SEASON TEST 113 - 116 Day CRM — Top 30 of 60 tested

AgriGold	A6533VT3	VT3	P250	**186.7**	16.3	0.1	$787.4	1	219.7	**170.3**	144.6	**197.7**	**175.3**	212.5
LG Seeds	LG2620VT3	VT3	P250	**185.9**	16.3	0.3	$784.0	2	**227.7**	162.1	142.2	**199.7**	173.9	209.8
Great Lakes	6455G3VT3	VT3	P250	**182.8**	16.6	0.1	$769.6	3	**230.3**	**165.3**	142.3	179.1	166.7	213.1
Channel	214-14VT3P	VT3P	P250	**182.0**	16.0	0.1	$769.0	4	**226.0**	161.1	**147.7**	163.9	**184.4**	209.1
LG Seeds	LG2641VT3	VT3	P250	**181.4**	16.1	0.3	$766.0	5	**223.5**	142.7	140.7	160.6	**196.9**	**224.1**
Dairyland	ST9414	VT3	P250	**180.8**	17.0	1.1	$759.4	7	**233.8**	153.0	145.1	169.7	169.5	213.5
Stone	6503VT3	VT3	P250	**180.4**	16.5	0.5	$759.9	6	**234.0**	**166.0**	135.4	167.7	167.7	211.6
Great Lakes	6354G3VT3	VT3	P250	**180.1**	16.5	2.3	$758.7	8	**229.6**	**170.3**	140.9	160.7	169.1	210.1
FS Seeds	FS64JV3	VT3	P250	178.6	15.7	0.0	$755.9	9	210.7	160.0	134.8	**184.0**	163.6	218.7
Channel	216-63VT3	VT3	P250	177.2	16.9	0.0	$744.7	10	**223.5**	158.6	**148.5**	160.9	160.7	211.1
LG Seeds	LG2642VT3	VT3	P250	176.4	16.9	0.0	$741.3	11	**225.5**	**165.2**	**153.0**	166.6	149.4	198.4
Dyna-Gro	57V21	VT3	P250	175.3	17.3	1.0	$734.9	15	**223.3**	154.8	**149.0**	166.1	150.3	208.5
Stone	6413VT3	VT3	P250	175.1	16.1	0.1	$739.4	12	206.3	**171.8**	126.1	172.2	155.7	218.5
FS Seeds	FS66S21	CB/LL	P250	174.9	17.4	0.3	$732.8	17	**226.2**	**171.5**	136.6	160.1	159.1	196.0
Stine	9806VT3	VT3	P250	174.4	17.1	0.0	$732.0	19	210.0	154.4	131.8	182.7	159.9	207.5
Merschman	M-1015B-15	VT3P	P500	174.3	16.0	0.1	$736.4	14	213.7	154.4	116.8	178.2	167.7	214.7
Croplan	6926VT3P	VT3P	C250	173.9	16.0	0.2	$734.7	16	217.4	154.2	**148.4**	157.2	168.8	197.4
Kruger	K-6213VT3	VT3	P250	173.8	15.5	0.1	$736.5	13	211.1	161.9	113.7	180.7	157.7	217.4
Kruger	K-6116VT3	VT3	C250	173.2	15.8	0.1	$732.6	18	209.4	154.5	137.5	177.6	152.6	207.6
AgriGold	A6632VT3Pro	VT3P	P250	172.8	16.4	0.1	$728.4	21	**223.5**	155.2	**146.5**	176.5	140.4	194.7
Golden Harvest	H-9138 3000GT	3000GT	C500	172.5	16.8	0.0	$725.4	25	197.7	151.9	134.1	**184.4**	159.5	207.6
FS Seeds	FS65BV3	VT3	P250	172.1	17.0	2.1	$722.8	26	**224.4**	152.8	136.5	166.7	169.2	183.2
Great Heart	HT-212VT3	VT3	P250,V	171.7	15.7	0.1	$726.7	22	208.6	148.4	142.5	163.1	146.8	**220.8**
Channel	213-32VT3	VT3	P250	171.7	15.9	0.0	$725.9	23	211.6	**175.2**	123.8	159.9	142.2	217.5
Wyffels	W8681	VT3	P250	171.6	16.9	0.1	$721.1	28	218.8	144.0	133.2	181.1	153.2	199.2
Dyna-Gro	57V59	VT3	P250	171.4	15.6	0.1	$725.9	24	213.5	134.8	144.0	163.5	157.6	214.9
FS Seeds	FS65U41	GT/CB/LL	P250	171.2	16.9	0.3	$719.5	29	206.6	**172.2**	133.1	160.8	159.4	194.9
Great Lakes	6576G3VT3	VT3	P250	171.1	16.8	0.5	$719.5	30	214.2	161.1	138.4	168.2	156.8	187.7
Croplan	6286VT3P	VT3P	C250	170.7	15.7	0.3	$722.5	27	199.3	152.0	129.6	176.8	153.3	213.1
Croplan	6763VT3	VT3	C250	169.5	15.8	0.0	$717.0	31	211.7	159.9	128.3	154.6	155.0	207.7
Beck	5716A3 CK	3000GT	P500	172.2	15.7	0.0	$728.8	20	205.9	151.6	**146.8**	161.5	154.5	212.7
Test Average =				**168.6**	**16.3**	**0.4**	**$711.1**		**209.7**	**148.1**	**132.4**	**166.3**	**154.2**	**200.8**
LSD (0.10) =				10.3	0.7	1.6			13.3	16.5	13.3	17.0	20.3	18.3

** = 2 replications

Eric Beyers, FIRST Manager



Stats:
Yield Range: 104.7 to 234 bu. per acre
Yield Average: 167.6 bu. per acre
Top $ Per Acre: $1,002.70

Field Notes: Illinois South

Vandalia – This site contended with some strong winds from thunderstorms early in July, which caused snapping in some hybrids prior to flowering. Hybrids affected by green snapping did experience yield reduction. Root lodging here was minimal. And although gray leaf spot, common rust and Stewart's disease were present here, all three of them were moderate.

Salem – This test site had excellent pollination, but the harvested kernel depth varied in size. Tom Beyers mentioned that their last rain here was in late August. The harvested stalk integrity was very good, as can be seen in the low lodging scores. Warm, dry fall conditions resulted in very little grain-moisture difference among the products tested. The average yields at this location were 150.2 bu. per acre and 152.4 bu. per acre for the early- and full-season tests, respectively.

Flora – Kent Warren remarked that the corn planted later in this area was yielding around 60 bu. per acre. This test plot was originally planted on April 21, but a 5" cold rain killed it. The field surrounding the test plot was not replanted and yielded around 160 bu. per acre to 175 bu. per acre. In comparison, the test plot's averages of 128.7 bu. per acre for the early-season test and 132.4 bu. per acre for the full-season test were very good, considering the May 25 replant date. The test plot had ear sizes that were about 1.5" in diameter and 4" in length.

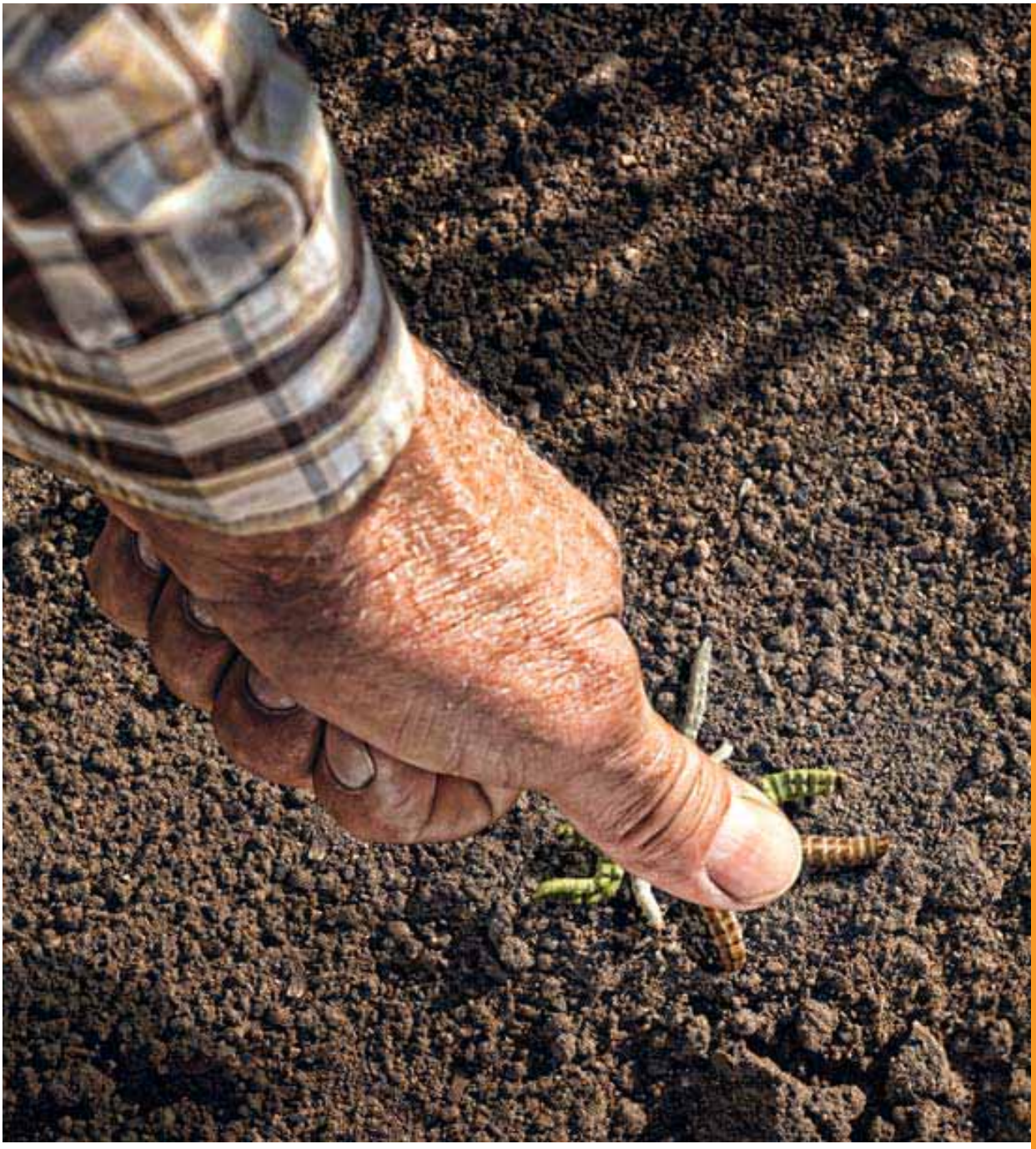
Marshall – Considering that only minimal rains fell during August and September, this replanted site yielded some excellent results. Butch noted that in his 50-plus years of farming, this was the first year he has harvested the entire month of September, save Sundays. Harvested kernel depth was very good and there was not lodging present at this site.

Belleville – We harvested grain from this field that had excellent kernel depth, which contributed to the exceptional yields we realized here. Although lodging scores were minimal, stalk and root integrity were compromised. Strong winds could have impacted lodging dramatically. Don Barttelbort commented that rains came when needed but that the 90+°F heat was brutal.

Du Quoin –This site had excellent uniform seedling emergence, so plant populations were a little higher than normal. Don Polczynski reported that the local elevator calculated a 60-lb. test weight on the harvested grain from the test plot and did not find enough substantial aflatoxins in the grain to merit any dockage. Most of the test plot hybrids' kernel depth and quality was excellent, but a few experienced lower kernel quality. Perhaps some drought, the high heat of August, and the presence of ear tip grain damage from feeding ear worms caused some grain to develop aflatoxins.

Test Site Description						Test Average			Yield Check Comparison (Beck 5716A3)		
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	Stand (per A)	Lodging (%)	Yield (Bu/A)	Early Test	Full Test	*Difference
Belleville	silt loam	minimum	Soybean	160	5/30	34,850	0.3	204.9	200.6	205.9	-5.3
Du Quoin	clay loam	no-till	Soybean	187	5/24	27,050	0.4	150.5	149.2	151.6	-2.4
Flora	silty clay loam	minimum	Soybean	185	5/25	26,600	0.0	130.6	135.4	146.8	-11.4
Marshall	silty clay loam	minimum	Soybean	189	5/29	29,950	0.0	164.7	178.3	161.5	16.8
Salem	silty clay loam	minimum	Soybean	160	4/20	26,150	0.1	152.2	145.5	154.5	-9.0
Vandalia	silty clay loam	minimum	Soybean	170	4/20	29,250	2.1	203.0	203.8	212.7	-8.9

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



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

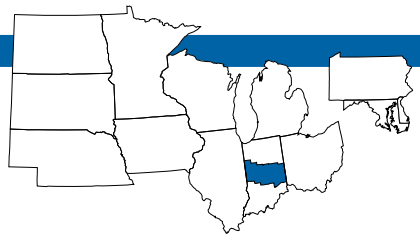
Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Greensburg	Otterbein	Perrysville	Spiceland#	Windfall	Wingate
LG Seeds	LG2555VT3	VT3	P250	**251.7**	18.3	2.5	$1,107.7	1	**190.1**	267.0	**286.6**	222.1	234.3	**280.6**
Stewart	7T630	VT3	P250	**250.1**	19.1	2.1	$1,094.7	2	184.4	254.5	**287.6**	212.9	**243.4**	**280.8**
Specialty	4970VT3	VT3	P250	**249.1**	19.5	2.5	$1,087.3	3	180.5	**276.6**	269.9	220.2	238.4	**280.0**
Steyer	10901VT3P	VT3P	P250	**244.0**	17.9	1.8	$1,076.8	5	183.9	260.5	270.6	221.0	238.6	266.5
Specialty	4969VT3	VT3	P250	**244.0**	19.3	3.3	$1,066.5	8	187.5	**274.2**	270.4	214.0	226.6	261.3
Channel	209-77VT3	VT3	P250	242.8	18.5	3.3	$1,067.1	7	**188.9**	**274.7**	281.1	180.7	227.0	242.3
Heritage	4610VT3	VT3	P250	242.4	19.4	2.5	$1,058.8	9	184.5	263.9	261.9	210.3	225.6	**276.3**
Channel	210-61VT3	VT3	P250	242.4	19.7	2.1	$1,056.6	10	176.1	**275.5**	256.3	219.9	228.9	**275.4**
Dekalb	DKC58-83 GC	VT3P	P250	241.9	17.8	2.0	$1,068.2	6	187.7	**275.1**	258.2	**239.8**	239.3	249.0
Specialty	4958VT3	VT3	P250	239.1	18.1	2.1	$1,053.7	11	**192.3**	228.8	275.1	225.6	213.0	**286.2**
Heritage	4602VT3	VT3	P250	238.8	18.4	2.5	$1,050.2	13	176.4	242.6	261.7	205.5	235.7	**277.4**
Stine	9731VT3Pro	VT3P	P250	237.9	17.8	3.1	$1,050.6	12	185.1	233.9	271.2	231.3	**240.4**	258.8
LG Seeds	LG2549VT3	VT3	P250	236.7	17.3	1.5	$1,048.8	14	172.9	254.6	260.8	224.4	232.7	262.7
Great Lakes	5939G3VT3	VT3	P250	235.0	17.7	2.9	$1,038.5	17	183.1	250.1	245.3	203.6	220.9	**275.8**
Golden Harvest	H-8577 3000GT	3000GT	C500	234.9	17.2	1.8	$1,041.5	15	187.1	256.1	**285.0**	226.5	215.2	230.9
Ebberts	2909VT3*	VT3	P250	234.6	18.8	2.1	$1,029.0	20	161.0	254.2	266.8	220.0	234.2	256.7
AgriGold	A6458VT3	VT3	P250	234.5	17.7	1.9	$1,036.3	18	159.7	264.4	273.2	197.0	239.3	235.7
Pioneer	P1184XR GC	HXT,RR2	P250	234.0	18.1	1.2	$1,031.2	19	183.1	237.3	**286.5**	214.7	233.8	229.1
Great Lakes	5643VT3PRO	VT3P	P250	232.5	16.0	2.0	$1,039.3	16	181.5	247.9	252.7	207.3	217.9	262.3
Heritage	4620VT3	VT3	P250	232.0	19.6	1.4	$1,012.0	24	170.1	247.3	249.4	223.2	**243.5**	249.6
Beck	5442VT3	VT3	P500	230.6	18.5	1.8	$1,013.5	23	187.6	232.8	275.6	**244.4**	205.0	251.9
Beck	XL 5377HR^*	HX,RR2	P500	230.5	17.3	1.4	$1,021.3	22	172.3	249.6	241.0	195.0	**240.8**	248.8
AgriGold	A6384VT3Pro	VT3P	P250	229.5	16.5	1.6	$1,022.4	21	174.9	261.6	235.8	213.5	227.8	247.4
Beck	XL 5269HXR^*	HXT,RR2	P500	226.5	18.3	1.8	$996.8	25	174.5	243.8	251.2	208.0	224.8	238.2
Garst	85E98-3000GT	3000GT	C500	222.3	19.2	1.6	$972.3	27	172.0	264.4	244.4	198.9	211.5	219.0
Channel	209-19VT3	VT3	P250	220.0	16.9	4.5	$977.5	26	163.3	226.0	242.6	207.4	219.9	248.0
Great Lakes	5783G3VT3	VT3	P250	212.2	16.9	2.2	$942.8	28	172.7	214.9	245.4	188.6	205.7	222.5
Beck	XL 5354HXR^	HXT,RR2	P500	211.3	18.4	1.4	$929.3	31	157.6	239.6	217.6	211.3	207.5	234.0
LG Seeds	LG2548VT3	VT3	P250	210.7	17.8	1.6	$930.5	30	143.8	233.3	229.0	188.2	210.8	236.6
Ebberts	7357VT3*	VT3	P250	209.8	16.4	2.3	$935.3	29	168.7	248.0	235.3	176.4	200.0	197.0
Dekalb	DKC61-69 CK	VT3	P250	**245.4**	17.8	2.7	$1,083.7	4	**199.2**	261.4	260.2	210.1	228.6	**277.8**
Test Average =				**229.2**	**18.0**	**2.1**	**$1,010.2**		**173.0**	**249.0**	**253.2**	**206.9**	**222.8**	**247.8**
LSD (0.10) =				14.4	0.9	1.6			15.5	24.9	28.6	26.3	16.7	25.0

FULL SEASON TEST 111 - 114 Day CRM — Top 30 of 45 tested

Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Greensburg	Otterbein	Perrysville	Spiceland#	Windfall	Wingate
LG Seeds	LG2641VT3	VT3	P250	**255.5**	18.9	1.6	$1,119.9	1	**192.6**	**294.0**	271.2	236.0	**265.3**	273.9
Channel	214-14VT3P	VT3P	P250	**254.4**	19.8	1.7	$1,108.2	2	182.7	263.6	**279.7**	**246.2**	**255.0**	**299.0**
Channel	213-32VT3	VT3	P250	**248.5**	19.2	1.3	$1,086.9	4	178.1	269.9	275.0	226.6	246.7	**294.6**
Golden Harvest	H-9138 3000GT	3000GT	C500	247.1	19.9	1.2	$1,075.6	6	169.6	265.8	264.5	**250.3**	237.3	**295.2**
Great Lakes	6354G3VT3	VT3	P250	245.9	19.6	1.3	$1,072.6	9	175.9	257.4	**290.1**	229.9	**256.7**	265.4
LG Seeds	LG2620VT3	VT3	P250	245.3	19.2	1.8	$1,072.9	8	172.9	**282.3**	268.1	212.1	248.6	287.9
Specialty	6989VT3	VT3	P250	244.8	18.5	2.0	$1,075.9	5	180.7	**283.2**	**285.3**	231.5	239.4	248.9
Great Lakes	6455G3VT3	VT3	P250	244.6	18.9	1.5	$1,072.1	10	174.8	270.7	251.2	239.9	**260.1**	271.1
Ebberts	7642VT3P	VT3P	P250	243.2	17.9	1.7	$1,073.2	7	177.9	266.4	256.3	243.9	244.8	269.9
AgriGold	A6632VT3Pro	VT3P	P250	242.6	19.3	1.0	$1,060.4	12	170.1	279.6	268.0	234.0	234.3	269.7
Garst	83X61-3000GT	3000GT	C500	242.1	19.4	2.7	$1,057.5	13	179.3	267.4	256.2	**264.1**	237.6	248.2
Garst	83R38-3000GT	3000GT	C250	242.0	18.3	1.3	$1,065.0	11	181.0	263.0	261.0	223.6	235.5	287.6
AgriGold	A6533VT3	VT3	P250	240.9	19.3	1.8	$1,053.0	14	178.3	280.2	261.1	222.6	**254.0**	249.0
Stine	9806VT3	VT3	P250	238.2	19.8	2.4	$1,037.6	20	175.0	256.1	270.2	222.7	236.5	268.9
Steyer	11002-3000GT	3000GT	C250	237.4	17.9	1.2	$1,047.6	15	170.1	262.1	262.8	226.1	232.0	271.2
Beck	5716A3	3000GT	P500	237.0	17.7	1.2	$1,047.3	16	177.9	277.6	263.0	225.1	234.7	243.9
Beck	XL 6077HR^*	HX,RR2	P500	237.0	18.1	1.9	$1,044.5	17	155.7	261.0	252.4	233.0	241.1	278.5
Ebberts	2711QUAD*	3000GT	P250	236.8	18.0	1.3	$1,044.3	18	188.5	**290.8**	230.8	214.4	216.0	280.2
Pioneer	P1395XR GC	HX	P250	236.8	19.7	1.7	$1,032.2	21	173.7	260.3	257.7	197.2	246.3	285.7
Specialty	6987VT3	VT3	P250	236.5	18.5	1.8	$1,039.4	19	181.2	253.5	238.7	229.6	244.1	272.1
Stewart	8T308	VT3	P250	235.8	19.4	1.3	$1,030.0	23	175.6	259.5	261.4	228.6	227.2	262.7
AgriGold	A6476VT3	VT3	P250	233.3	18.2	1.3	$1,027.5	24	179.0	258.0	258.2	205.0	233.0	266.7
Ebberts	8672QUAD*	3000GT	P250	232.1	19.2	1.8	$1,015.2	29	162.9	277.5	239.5	204.4	230.5	277.5
Heritage	4642VT3	VT3	P250	231.8	19.0	2.3	$1,015.3	28	**195.6**	270.8	220.3	220.7	232.1	251.4
Steyer	11201VT3P*	VT3P	P250	231.7	16.8	5.1	$1,030.1	22	163.7	254.4	250.4	**250.3**	200.5	270.8
Withdrawn	EX711	RR2	P250	230.6	17.1	2.3	$1,023.2	25	154.5	271.1	250.7	239.5	223.3	244.6
Ebberts	7501RR*	RR2	P250	229.9	17.6	2.3	$1,016.6	26	177.4	235.9	244.5	218.9	235.4	267.5
Stewart	7V828	VT3P	P250	229.5	17.5	1.2	$1,015.5	27	174.1	277.2	236.7	220.6	218.5	250.1
Heritage	4676VT3	VT3	P250	229.4	18.5	1.2	$1,008.2	31	160.5	258.5	247.7	224.9	229.6	255.1
Stewart	7T344	VT3	P250	228.9	17.9	2.0	$1,010.1	30	170.4	248.1	241.2	226.2	226.0	261.4
Dekalb	DKC61-69 CK	VT3	P250	**247.4**	16.9	2.6	$1,099.2	3	186.0	273.1	265.1	241.8	228.2	**290.1**
Test Average =				**234.7**	**18.6**	**1.9**	**$1,031.0**		**171.9**	**259.3**	**253.8**	**226.2**	**235.0**	**262.2**
LSD (0.10) =				12.7	0.8	1.4			17.4	22.3	23.3	17.9	15.6	27.4

= early test, rejected results, not included in summary

Rich Schleuning, FIRST Manager



Stats:
Yield Range: 127.6 to 299.0 bu. per acre
Yield Average: 230.1 bu. per acre
Top $ Per Acre: $1,315.30

Field Notes: Indiana Central

Perrysville – What a surprise this test turned out to be! Dennis Hughs commented on how yield was varying from farm to farm, with some 20 to 30 bu. per acre below last year and some just shy of last year. This test produced 253 bu. per acre in both the early-season test and the full-season tests. Plant health was good, as all products were still holding leaves. Cobs were good and hard with deep kernel set as well. It was an excellent test here in Perrysville!

Spiceland – This test location had heavy rain early in the spring, which led to standing water that hurt the corn yield in the front and back sides of the test area. The rest of the season provided ideal weather, leading to good yields. A light infestation of anthracnose was present. The early-season test data has been rejected due to non-uniform water impact on corn yield. Larry Bever commented that the wettest corn they shelled was 17.5%.

Windfall – This test site had plenty of, but not excessive, moisture, as indicated by the high yields. Stalk rot was present at this test site and did impact the stand of several products. Ear and grain quality was good. Stalks retained ears well in the downed-corn areas. Root depth was shallow here this year. The yield averages for the early- and full-season tests were 222.8 bu. per acre and 235 bu. per acre in turn.

Otterbein – Our Otterbein test location produced some exceptional yields for the conditions we had this year (249 bu. per acre average in our early test and 259.3 bu. per acre in our full-season test). Steve Gick made a good management call to spray with Stratego, as anthracnose and gray leaf spot would have hurt this plot. With all the rain this year, roots were shallow and the combine could pull the plant out of the ground. Some late test varieties were hard to shell.

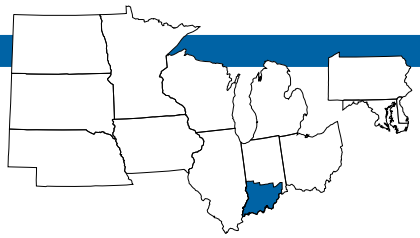
Greensburg – This location got off to a great start with good emergence and final stand. This area happened to catch a nice rain in July, which helped, as July and August were both hot months here. These hot months reduced top-end yield potential. Gray leaf spot, rust and light anthracnose were present. An application of Quilt was made to the plot before tassel when the surrounding field was full tassel.

Wingate – This location was fortunate enough to get a great start ahead of the heavy rains in the early spring. It had excellent emergence and final stand for no-till corn on corn. There were some hybrids in the full-season test that had soft cobs, which made for difficult shelling. We also noticed some anthracnose present, and had we not harvested in a timely manner, it would have made for a more difficult time. Yield here was exceptional, being around 250 bu. per acre.

Test Site Description						Test Average			Yield Check Comparison (Dekalb DKC61-69)		
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	Stand (per A)	Lodging (%)	Yield (Bu/A)	Early Test	Full Test	*Difference
Greensburg	silt loam	conventional	Corn, 2+ yr	185	5/9	34,150	1.7	172.5	199.2	186.0	13.2
Otterbein	silt loam	minimum	Soybean	216	4/20	34,200	2.1	254.2	261.4	273.1	-11.7
Perrysville	silty clay loam	no-till	Soybean	132	4/21	32,550	1.0	253.5	260.2	265.1	-4.9
Spiceland	silty clay loam	minimum	Soybean	214	5/10	35,400	1.4	216.6	210.1	241.8	-31.7
Windfall	silty clay loam	conventional	Soybean	185	4/22	31,250	4.2	228.9	228.6	228.2	0.4
Wingate	silty clay loam	no-till	Corn, 2+ yr	210	4/21	35,350	1.5	255.0	277.8	290.1	-12.3

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

Rich Schleuning, FIRST Manager



Stats:
Yield Range: 82.3 to 223.4 bu. per acre
Yield Average: 162.0 bu. per acre
Top $ Per Acre: $997.00

Field Notes: Indiana South

Columbus – This location had a great plant establishment in spite of receiving 5.4" of rainfall in May. These rains caused flooding but did not impact crop stand. Above-normal rainfall continued into June (8.6"), then nearly stopped in July (1.6") and August (0.8"). The very limited rainfall and late-season high temperatures created considerable stress for this crop. Ears for the most part were small with considerable tip-back. Plants looked good in spite of this. Yields are variable but statistically valid. This test is ideal for evaluating stress tolerance.

Carlisle – This test plot in Sullivan County was planted on April 21. The total rain here in July was 3.6" and in August only 0.6". Low yields can be attributed to the high heat in July and August and to the low August rainfall. Some stalk rot was apparent but low in overall occurrence. We did observe good ear retention at this site. The average yield produced 175.6 bu. per acre with a low yield of 140.7 bu. per acre and a high of 203.7 bu. per acre. The field surrounding the plot had areas with no grain production due to the extremely dry conditions.

Elnora – Heavy April and May rainfall reduced final stands on this no-till planted in sandy clay soil in Daviess County. Yields were variable but did not correlate to final stands. The early season being wet coupled with the late season being hot and dry impacted yield results heavily. There were some foliar diseases present (gray leaf spot and Northern corn leaf blight). Many products still had green stalks at harvest. The yields here ranged from 126.8 bu. per acre to 191.1 bu. per acre for an average of 159.4 bu. per acre.

Versailles – The clay loam soil at this Ripley County test location had ample soil moisture through June with a total of 9.2" of rain. We achieved very good seedling establishment but the wet conditions limited root growth. Unfortunately, the next rainfall didn't come until late August. Despite the smaller root masses and dry conditions, stalk quality was good, with many plants having green stalks at harvest. Some products even retained green leaves up until going through the combine. There were some signs of light soil compaction at this location. Yields

Photo courtesy of Rich Schleuning

When a planting crew hits the road, they must be prepared to plant multiple locations over an extended period of time. Seed for multiple regions, tools, spare parts, insecticide and starter fertilizer are many of the supplies needed. Don't forget to take a load of patience too, as Mother Nature can change the best laid plans in a hurry.

Farmer's Independent Research of Seed Technologies

ALL SEASON TEST 108 - 116 Day CRM — **Top 30 of 54 tested**

Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Carlisle	Columbus	Elnora	Folsomville	Grammer**	Versailles
Garst	84J30-3000GT	3000GT	C500	173.9	20.6	1.0	$753.3	2	181.6	138.6	166.4	188.0	205.9	163.0
Dyna-Gro	57V40	VT3	P250	173.7	19.5	1.3	$758.2	1	189.8	135.7	**191.1**	168.4	194.7	162.4
LG Seeds	LG2555VT3	VT3	P250	173.7	20.8	1.8	$751.4	3	189.0	131.8	155.5	180.2	**214.3**	171.6
Channel	216-63VT3	VT3	P250	172.9	22.6	1.0	$738.6	6	190.1	116.3	165.1	181.1	**220.5**	164.1
Channel	214-14VT3P	VT3P	P250	172.4	21.9	1.5	$740.1	5	**199.3**	**158.9**	161.2	167.7	181.3	165.9
Dyna-Gro	D52Q90*	3000GT	P250	172.3	19.8	1.0	$750.5	4	178.6	133.8	**179.9**	169.4	199.9	172.0
LG Seeds	LG2641VT3	VT3	P250	171.0	22.3	1.2	$732.1	9	181.5	134.8	167.6	169.0	201.3	171.6
Great Lakes	6354G3VT3	VT3	P250	170.7	21.8	1.5	$733.3	7	171.6	150.3	162.4	180.2	205.2	154.6
Garst	82R05-3000GT	3000GT	C500	169.2	24.0	1.3	$715.7	17	174.4	140.4	174.0	182.6	176.2	167.5
Stewart	8T814	VT3	P250	169.1	22.9	1.0	$720.9	14	176.0	143.3	173.3	161.8	200.2	160.0
Great Lakes	5939G3VT3	VT3	P250	168.6	20.3	1.2	$731.9	10	179.6	132.2	152.0	169.3	212.0	166.3
LG Seeds	LG2620VT3	VT3	P250	168.3	21.4	1.2	$725.0	12	**196.4**	127.7	159.0	**193.4**	182.1	150.9
Stewart	7T630	VT3	P250	168.1	20.7	1.5	$727.7	11	170.3	**152.0**	164.8	168.6	179.6	173.1
Stine	9731VT3Pro	VT3P	P250	167.7	19.3	1.3	$733.0	8	174.9	120.1	172.0	171.2	190.8	176.9
Stewart	7T945	VT3	P250	166.5	19.9	1.0	$724.8	13	187.1	125.4	171.4	156.8	182.9	175.1
Channel	210-61VT3	VT3	P250	165.5	20.7	1.7	$716.4	16	185.0	138.3	143.9	170.1	171.6	**184.2**
Specialty	4970VT3	VT3	P250	165.5	21.7	1.3	$711.5	21	189.0	128.3	139.8	173.7	189.7	172.3
Stewart	8T755	VT3	P250	165.4	21.0	1.7	$714.5	20	191.4	134.9	**177.8**	123.2	208.3	156.7
Specialty	6987VT3	VT3	P250	165.2	20.4	1.3	$716.6	15	179.4	138.3	166.6	123.3	**216.6**	167.1
Heritage	4676VT3	VT3	P250	165.2	20.7	1.4	$715.2	18	180.6	108.0	158.2	169.5	188.7	**186.0**
Channel	213-32VT3	VT3	P250	165.0	21.3	1.3	$711.3	22	191.3	103.8	159.1	178.9	196.4	160.7
Stine	9806VT3	VT3	P250	164.7	23.0	1.3	$701.6	27	166.6	96.6	**182.7**	167.0	207.4	168.1
Golden Harvest	H-9138 3000GT	3000GT	C500	164.4	22.8	1.0	$701.3	28	177.6	110.7	**184.4**	158.0	179.9	175.9
Mycogen	2V732	VT3	C250	163.6	20.5	1.3	$709.2	23	**203.7**	120.0	157.8	157.6	170.2	172.1
Beck	6288A3	3000GT	P500	162.9	22.1	1.2	$698.4	29	164.5	136.3	151.7	176.2	191.7	156.9
Specialty	4958VT3	VT3	P250	162.8	18.7	1.2	$714.5	19	182.8	113.5	162.9	169.0	191.0	157.5
Beck	5442VT3	VT3	P500	162.5	19.9	1.0	$707.4	24	157.4	99.6	**178.3**	186.4	194.4	159.1
LG Seeds	LG2549VT3	VT3	P250	161.8	19.7	1.0	$705.3	25	173.6	91.0	146.9	162.1	**221.3**	175.6
Heritage	4602VT3	VT3	P250	161.1	19.4	1.3	$703.7	26	177.9	122.5	163.8	168.3	178.4	155.8
Golden Harvest	H-8969 3000GT	3000GT	C500	159.2	19.0	1.0	$697.3	30	174.2	95.5	**178.7**	164.3	168.4	174.1
Test Average =				**162.0**	**21.2**	**1.2**	**$698.6**		**175.6**	**118.5**	**159.4**	**162.5**	**191.5**	**164.3**
LSD (0.10) =				13.8	1.4	n.s.			17.7	33.2	17.8	27.5	21.4	13.2

** = 2 replications

here averaged 164.3 bu. per acre, ranging from a low of 138.6 to a high of 186.0 bu. per acre.

Folsomville – This test location was replanted due to the heavy rains in April. With the warm weather and ample rain, the replant was out of the ground in just three days. The crop was also able to reach pollination before the rain stopped. This fast-paced restart helped in the long run to produce higher yields than expected given the heat and dry conditions that we experienced in July and August. Yields here ranged from 117.3 bu. per acre to 193.4 bu. per acre with an average yield of 162.5 bu. per acre. Harvest conditions here were very dry. We nearly lost this test when the neighboring field caught fire. Fortunately, the farmer and fire department were able to extinguish the fire before it reached the plot.

Grammer – Rainfall here was ample early in the growing season but dwindled to only 0.4" during July. The crop received enough early-season heat units to complete pollination prior to the extremely hot and dry conditions in the middle to late season. These hot conditions led to deterioration of stalk quality at harvest. In spite of these less-than-ideal conditions, the average yield for this Bartholomew County test plot was 191.5 bu. per acre with a low yield of 162.3 bu. per acre and a high of 223.4 bu. per acre.

Test Site Description						Test Average		
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	Stand (per A)	Lodging (%)	Yield (Bu/A)
Carlisle	sandy clay loam	conventional	Soybean	165	4/21	31,000	1.3	175.6
Columbus	sandy clay	conventional	Soybean	157	5/8	33,700	1.0	118.5
Elnora	sandy clay	no-till	Soybean	145	4/21	31,500	1.0	159.4
Folsomville	silt loam	minimum	Corn	284	5/26	34,200	1.3	162.5
Grammer	clay loam	minimum	Soybean	203	5/9	30,800	1.7	191.5
Versailles	clay loam	no-till	Soybean	261	5/9	31,300	1.0	164.3

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S. ILLINOIS & INDIANA *2010 HARVEST CORN RESULTS*

Garst

BRAND	F.I.R.S.T. TRIAL LOCATION	YIELD RANK	YIELD (Bu/A)
85E98 - 3000GT	LaCrosse, IN	1 out of 42	**299.6**[1] Full Season
83X61 - 3000GT	Spiceland, IN	1 out of 45	**264.1**[1] Full Season
84J30 - 3000GT	Roanoke, IN	4 out of 42	**189.0**[1] Full Season
84J30 - 3000GT	Folsomville, IN	3 out of 54	**188.0**[1]

GoldenHarvest

BRAND	F.I.R.S.T. TRIAL LOCATION	YIELD RANK	YIELD (Bu/A)
H-9138 3000GT	Winamac, IN	2 out of 45	**295.2**[1] Full Season
H-8577 3000GT	La Crosse, IN	2 out of 42	**291.8**[1] Early Season
H-8577 3000GT	Pennsville, IN	4 out of 36	**285.0**[1] Early Season
H-9138 3000GT	Spiceland, IN	3 out of 45	**250.3**[1] Full Season

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

SYNGENTA TRIALS

BRAND	***OUTPERFORMS :***
N74R - 3000GT	Pioneer P1395XR by an avg of ***10.3*** bu/A in 32 IL locations[2]
N72Q - 3000GT	Pioneer 33N58 by an avg of ***7.7*** bu/A in 5 IL locations[2]
N73V - 3000GT	Pioneer P1395XR by an avg of ***4.1*** bu/A in 18 IL locations[2]

S. ILLINOIS – INDIANA & OHIO *2010 HARVEST SOYBEAN RESULTS*

Soybeans

OUTPERFORMS :

NK
SOYBEANS

- All Competitors' products, averaging ***63.1*** bu/A in 98 IL locations[3]
- All Asgrow products, 64% of the time, averaging ***55.1*** bu/A in 211 IN & OH locations[4]
- All Pioneer products, 77% of the time, averaging ***54.7*** bu/A in 111 IN & OH locations[4]

syngenta

F.I.R.S.T. trials [1]NK head to head comparisons against Pioneer in Central/Southern Illinois. [2]2010 Syngenta Seeds Trials – In-State 11/1/2010 [3]2010 Syngenta Seeds Trials – Great Lakes 11/1/2010

CLASSIFICATION: PUBLIC

Farmer's Independent Research of Seed Technologies

OHWC Ohio West Central Corn Results

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

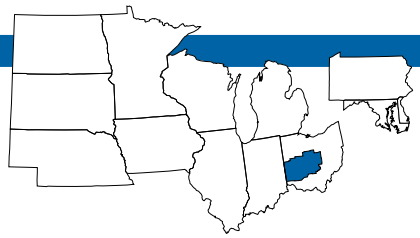
Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Caledonia**	Celina	Dunkirk	Lewistown	Springfield	Versailles
Steyer	10901VT3P	VT3P	P250	**192.4**	15.0	1.0	$846.6	1	**215.0**	196.7	209.6	173.6	**194.6**	164.6
LG Seeds	LG2555VT3	VT3	P250	**192.0**	15.0	1.0	$844.8	2	**230.4**	**203.5**	207.7	171.2	181.3	157.8
Stewart	7T630	VT3	P250	189.1	14.9	1.0	$832.6	3	189.2	**207.0**	**227.1**	167.2	178.3	165.9
Ebberts	2909VT3*	VT3	P250	188.7	14.8	1.0	$831.4	4	211.4	189.1	220.7	164.7	180.6	165.8
Stewart	7T945	VT3	P250	187.8	15.1	1.0	$825.8	5	205.6	185.2	219.0	167.5	184.7	165.0
Mycogen	2P612 GC	VT3	C250	186.7	14.6	1.0	$823.7	6	189.0	189.6	215.2	167.7	187.8	**170.8**
Channel	210-61VT3	VT3	P250	186.3	15.0	1.0	$819.7	8	203.4	199.0	207.2	171.0	174.6	162.3
Steyer	10903VT3P	VT3P	P250	185.6	15.2	1.0	$815.5	10	208.2	191.6	201.4	162.7	184.2	165.6
Stine	9731VT3Pro	VT3P	P250	184.9	14.9	1.0	$814.1	11	192.6	189.1	**229.1**	162.0	180.3	156.0
Steyer	10902GT*	GT	C250	184.8	15.0	1.0	$813.1	12	206.0	**206.2**	200.3	166.3	165.2	164.9
Channel	209-19VT3	VT3	P250	184.7	14.4	1.0	$816.0	9	194.6	195.1	217.4	166.8	180.8	153.6
Specialty	*4970VT3*	*VT3*	*P250*	*184.5*	*15.4*	*1.0*	*$809.6*	*13*	*188.1*	*194.3*	*200.8*	*169.9*	***199.7***	*154.4*
Specialty	4958VT3	VT3	P250	183.2	14.8	1.0	$807.2	14	207.5	182.4	210.8	169.7	174.1	154.7
Specialty	4969VT3	VT3	P250	183.2	14.9	1.0	$806.6	15	198.4	194.8	209.2	166.4	174.1	156.0
Channel	209-77VT3	VT3	P250	181.7	14.9	1.2	$800.0	16	190.9	199.0	198.4	166.6	175.4	160.0
Great Lakes	5643VT3PRO	VT3P	P250	181.2	14.6	1.2	$799.5	17	187.5	191.9	198.7	173.5	166.0	**169.3**
LG Seeds	LG2549VT3	VT3	P250	181.0	14.6	1.0	$798.6	18	**218.2**	182.9	198.7	155.6	182.8	147.7
Great Lakes	5783G3VT3	VT3	P250	180.5	14.6	1.0	$796.4	20	204.8	179.6	200.4	165.2	170.1	162.6
Ebberts	7357VT3*	VT3	P250	180.4	14.4	1.0	$797.0	19	199.1	174.0	201.5	164.9	175.8	167.0
Buckeye	RR8606VT3 GC	VT3	C250	179.7	14.6	1.2	$792.8	22	182.1	192.6	191.3	168.6	177.1	166.7
FS Seeds	FS54SX1 GC	SS	P250	179.5	14.4	1.2	$793.0	21	191.4	196.0	196.2	162.1	168.4	162.8
Stewart	6T725	VT3	P250	179.3	14.6	1.2	$791.1	23	193.9	186.1	202.0	163.8	175.8	154.0
Great Lakes	5939G3VT3	VT3	P250	178.7	15.1	1.0	$785.7	24	192.7	183.1	201.1	154.3	177.0	164.2
Beck	5442VT3	VT3	P500	178.5	15.1	1.0	$784.9	25	191.7	191.3	205.3	159.8	171.3	151.4
Stewart	EXP7A	SS	P250	177.3	14.7	1.0	$781.7	26	183.2	193.8	201.1	156.5	175.7	153.3
LG Seeds	LG2548VT3	VT3	P250	177.1	14.9	1.2	$779.8	27	191.4	178.9	200.7	166.8	173.2	151.8
Beck	XL 5377HR^*	HX,RR2	P500	176.4	14.4	1.0	$779.3	28	194.1	167.9	189.4	170.1	170.9	165.9
Beck	XL 5354HXR^	HXT,RR2	P500	174.8	14.8	1.0	$770.2	29	183.3	168.4	213.5	156.9	164.3	162.4
Beck	XL 5269HXR^*	HXT,RR2	P500	173.4	14.6	1.0	$765.0	30	177.4	182.8	201.5	159.0	169.8	150.0
Dekalb	DKC61-69 CK	VT3	P250	186.8	15.2	1.0	$820.8	7	193.2	196.5	199.1	**186.5**	187.6	158.0
Test Average =				**182.7**	**14.8**	**1.0**	**$804.8**		**197.1**	**189.6**	**205.8**	**165.9**	**177.4**	**160.2**
LSD (0.10) =				7.9	0.4	n.s			16.3	13.0	15.0	12.4	11.4	8.7

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

FS Seeds	FS63MV4 GC	VT3P	P250	**195.9**	16.2	1.0	$854.9	1	**226.4**	193.2	**205.6**	180.0	**207.9**	162.1
Stewart	7V828	VT3P	P250	188.8	15.7	1.0	$826.8	2	209.4	**217.4**	195.4	167.5	184.6	158.5
Steyer	11201VT3P*	VT3P	P250	185.5	16.5	1.0	$807.9	3	196.9	**212.6**	200.5	176.4	167.9	158.4
Specialty	6989VT3	VT3	P250	184.9	16.1	1.0	$807.5	4	**222.9**	193.8	190.6	154.0	176.4	**171.9**
Channel	213-32VT3	VT3	P250	184.8	16.3	1.0	$805.9	5	210.7	**212.8**	193.9	168.5	167.7	155.1
Mycogen	2H735 GC	RR2	C250	184.3	16.0	1.0	$805.4	6	203.5	184.1	199.4	**187.0**	170.7	161.0
Stewart	8T308	VT3	P250	184.0	16.3	1.2	$802.4	7	**220.3**	189.5	189.4	172.5	173.2	159.3
Fielders Choice	NG6759	VT3	P250	183.3	16.0	1.2	$801.0	8	197.5	183.6	193.2	181.6	181.7	162.4
Steyer	11301-3000GT*	3000GT	C250	183.3	16.0	1.2	$801.0	9	201.1	204.9	195.2	156.8	181.6	160.3
Great Lakes	6229G3VT3	VT3	P250	182.8	15.7	1.0	$800.5	10	202.1	192.5	194.6	169.5	165.9	**172.0**
Specialty	6987VT3	VT3	P250	182.4	16.3	1.2	$795.4	11	203.4	205.1	188.6	169.0	169.5	158.5
Fielders Choice	NG6723	VT3	P250	181.9	16.3	1.2	$793.3	15	211.0	190.7	189.9	168.1	171.2	160.6
Stine	9806VT3	VT3	P250	181.8	16.4	1.2	$792.3	17	189.8	195.4	193.5	172.2	166.3	**173.3**
LG Seeds	LG2641VT3	VT3	P250	181.6	16.2	1.0	$792.5	16	193.1	197.7	192.5	164.1	177.9	164.1
Ebberts	7642VT3P	VT3P	P250	181.4	15.6	1.2	$794.9	12	191.0	194.3	191.2	180.7	169.6	161.4
FS Seeds	FS64JV3 GC	VT3	P250	181.3	16.8	1.0	$787.9	20	206.9	198.6	194.7	151.5	174.8	161.5
Stewart	7T765	VT3	P250	181.2	15.5	1.0	$794.6	13	200.0	188.8	193.3	178.2	176.1	151.0
Ebberts	7501RR*	RR2	P250	181.0	15.5	1.0	$793.7	14	192.0	204.1	193.0	169.4	176.6	150.7
Great Lakes	6354G3VT3	VT3	P250	180.9	15.8	1.0	$791.6	18	205.7	195.2	190.8	158.1	170.4	165.0
Stewart	7T875	VT3	P250	180.7	15.8	1.0	$790.7	19	209.5	188.4	191.2	160.6	181.3	152.9
Beck	XL 6464HR^*	HX,RR2	P500	180.5	16.5	1.0	$786.1	23	195.6	183.3	203.1	178.3	169.3	153.1
Beck	5716A3	3000GT	P500	179.8	15.9	1.2	$786.3	21	196.7	197.4	179.1	176.5	174.6	154.4
Steyer	11002-3000GT	3000GT	C250	179.6	16.1	1.0	$784.3	24	199.5	192.5	179.1	158.5	168.7	**179.4**
Fielders Choice	NG6789	VT3	P250	179.6	16.6	1.0	$781.6	28	193.0	186.5	202.2	153.8	183.6	158.7
Specialty	6946VT3	VT3	P250	179.4	16.3	1.0	$782.4	26	202.7	193.7	185.2	163.5	172.8	158.2
Fielders Choice	NG6820	VT3	P250	179.3	15.5	1.0	$786.2	22	205.2	179.6	185.9	**184.9**	174.6	145.8
LG Seeds	LG2616VT3	VT3	P250	178.8	15.9	1.0	$781.9	27	188.6	179.1	186.8	163.6	**193.1**	161.5
Beck	XL 6077HR^*	HX,RR2	P500	177.3	15.8	1.0	$775.9	29	196.8	169.7	196.8	168.2	174.7	157.5
Beck	6179VT3	VT3	P500	176.9	16.4	1.0	$770.9	31	194.0	179.1	198.5	160.2	170.7	159.0
Ebberts	2711QUAD*	3000GT	P250	176.8	15.6	1.2	$774.7	30	198.3	185.5	184.7	164.6	170.4	157.2
Dekalb	DKC61-69 CK	VT3	P250	178.3	15.4	1.0	$782.4	25	198.4	182.9	193.1	165.0	176.5	153.9
Test Average =				**180.9**	**16.1**	**1.1**	**$789.9**		**200.0**	**191.8**	**190.7**	**167.9**	**174.9**	**159.8**
LSD (0.10) =				8.2	0.4	n.s.			15.9	16.4	14.6	16.0	11.2	10.8

** = early test, 2 replications

Rich Schleuning, FIRST Manager



Stats:
Yield Range: 145.8 to 230.4 bu. per acre
Yield Average: 181.8 bu. per acre
Top $ Per Acre: $1,009.40

Field Notes: Ohio West Central

Springfield – This area had ideal growing conditions this season. Good ear set and kernel depth with good test weight were the results of such an ideal season. The crop had matured to the point of starting blacklayer when the dry conditions of August set in. Larry Timmons has been very pleased with the crop he produced, which averaged 177.4 bu. per acre in the early-season test and 174.9 bu. per acre in the full-season test.

Caledonia – After emergence, this plot got pounded by rain, which led to some ponding in some of the lower areas of the plot. Gerald Scekel said the plot had perfect conditions after the early spring rains. The area did receive some nice rain in July. The stalk quality was good on all hybrids, which made for a nice harvest. Average yield here was 197.1 bu. per acre in the early-season test and 200 bu. per acre for the full-season test.

Lewistown – Early-season conditions provided satisfactory emergence and stand establishment. According to Sam Kinney, the month of July was terribly dry and hot. Early-season rains somehow got these hybrids to maturity without losing a lot of yield. Stalk quality was very good, making for an easy harvest. The average yield here in Lewistown was 165.9 bu. per acre for the early-season test and 167.9 bu. per acre for the full-season test.

Dunkirk – Here in Dunkirk we experienced quality soil moisture early in the season, which was followed by some timely rainfall in July during pollination and grain fill. Stalk rot was present at harvest but lodging scores were minor. Soil water-holding capacity was a key factor at this test site. We had great yields for this area at an average of 205.8 bu. per acre in the early test and 190.7 bu. per acre for the full-season test.

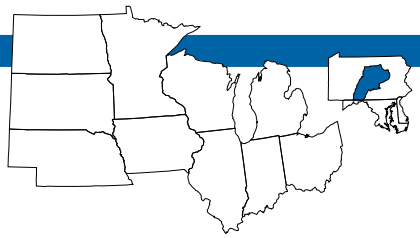
Versailles – This test location had ample rain throughout the month of June, which really helped the crop obtain good pollination. Overall, disease was not an issue here and no lodging issues were observed at harvest. Stalk pinch tests, however, confirmed that stalk quality was starting to deteriorate. Fortunately, we did not have any strong winds prior to harvest. The average yield here for the early-season was 160.2 bu. per acre and for the full-season we produced 159.8 bu. per acre.

Celina – This test plot was planted on May 7 and saw good weather conditions from then through grain fill. There were some nice rainfalls that kept this non-irrigated site moist. The kernel set and fill here were good and were accompanied by pleasant harvesting weather. This field produced an average of 189.6 bu. per acre in the early-season test and an average of 191.8 bu. per acre in the full-season test.

Test Site Description						Test Average			Yield Check Comparison (Dekalb DKC61-69)		
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	Stand (per A)	Lodging (%)	Yield (Bu/A)	Early Test	Full Test	*Difference
Caledonia	sandy clay loam	conventional	Wheat	174	5/25	31,950	1.0	198.6	193.2	198.4	-5.2
Celina	sandy clay loam	minimum	Soybean	216	5/7	31,200	1.0	190.7	196.5	182.9	13.6
Dunkirk	loamy sand	no-till	Soybean	186	5/6	31,750	1.2	198.3	199.1	193.1	6.0
Lewistown	sandy clay	no-till	Soybean	179	5/29	32,800	1.0	166.9	186.5	165.0	21.5
Springfield	sandy clay loam	no-till	Soybean	187	4/29	30,150	1.1	176.2	187.6	176.5	11.1
Versailles	sandy clay loam	conventional	Soybean	186	4/28	30,200	1.0	160.0	158.0	153.9	4.1

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

Rob Kauffman, FIRST Manager



Stats:
Yield Range: 121.8 to 232.0 bu. per acre
Yield Average: 195.5 bu. per acre
Top $ Per Acre: $1,219.70

Field Notes: Pennsylvania Central

Many farmers in central Penn. are not accustomed to seeing high yields like 2010. With the exception of Juniata county and its dry June most sites experienced above-average rainfall and yields. Planting season was right on time– late April to Mid-May. Good early soil moisture and temps had corn coming through without a problem. No-till site emergence was as good as ever and most plots had very little stress through the summer. Final stand populations were within 2% of planting population. Weed control was excellent with no significant issues at any site. Disease was held to minor leaf infections, some northern leaf blight and some gray leaf spot, but only on lower leaves. No rootworm lodging was observed and silk feeding was due to Japanese beetles but it did not affect pollination. Stalk diseases were not a factor except again for Juniata county which had some anthracnose. Rainfall was regular throughout most of the summer with storms coming west to east, many of which did not make it over the mountains into eastern Penn. or the Delmarva area. Harvest was later due to later planting dates, higher grain moistures and drying costs. The only negative for the season was that earlier maturity hybrids and early-planted fields did not do as well as expected but later maturities made up for the yield.

Danville – Each year, planting date and maturity make or break corn yields. This plot was planted at the right time to take advantage of the rains. Early-planting and shorter-maturity hybrids missed the later rains. Overall, the plot saw little stress due to environment or disease. The average yield produced on this plot was 178 bu. per acre.

Northumberland – You cannot always tell early in the season how poorly or how well a crop will do. In June this plot was going through some drought stress, but timely rains and heat came in July and August, which made for some big corn yields and also some of the tallest corn harvested this year. This site averaged a yield of 200 bu. per acre with a high of 229.9 bu. per acre.

Martinsburg – This plot saw very little stress all year. There were a few weeks in early August without rainfall, which cut into yields a little, but there were no

Photo courtesy of Mark Querna

In the spring, Mark Querna's shop becomes seed packaging central. Seed provided by sponsors is packaged in envelopes to plant single rows 45 feet long. Plots are planted with either four 30" rows, seven 15" single rows, or four 30" twin rows spaced 8-inches apart. Seed envelopes are assembled in planting order based on computer generated plot randomizations and stored in boxes until planted. Precision is critical here, one mistake and the wrong product is planted in the wrong plot.

Farmer's Independent Research of Seed Technologies

ALL SEASON TEST 99 - 109 Day CRM — **Top 30 of 30 tested**

Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Centre Hall	Danville	Martinsburg	McVeytown	Northumberland	Ringtown
Growmark FS	5667GT3	3000GT	C250	**209.3**	18.5	0.2	$1,101.4	1	222.9	**199.1**	**228.0**	170.5	212.7	**222.5**
Channel	205-94VT3	VT3	P250	**206.5**	19.3	7.5	$1,082.6	2	212.8	**197.5**	213.9	172.0	**229.9**	213.0
Channel	209-77VT3	VT3	P250	205.0	20.7	2.1	$1,067.5	4	**231.7**	169.2	208.4	**179.2**	217.4	**224.2**
Doeblers	554GRQ	3000GT	C250	203.2	18.4	0.3	$1,069.8	3	209.8	**197.0**	220.9	175.1	204.0	212.4
Hubner	H5346VT3	VT3	P250	202.0	17.9	1.4	$1,066.1	5	217.5	191.2	201.5	166.0	**223.9**	211.8
Hubner	H6330GENSS	SS	P250	202.0	19.9	0.3	$1,056.0	9	227.7	180.5	214.8	**183.9**	212.9	192.4
TA Seeds	TA525-13V*	VT3	P250	200.5	17.5	0.9	$1,060.1	6	**232.0**	186.7	212.2	156.1	203.0	212.9
TA Seeds	TA565-18*	GT	P250	200.4	18.3	0.7	$1,055.6	10	224.9	194.3	207.1	172.0	187.0	217.2
Hubner	H5222VT3	VT3	P250	200.3	18.0	3.2	$1,056.6	8	230.8	178.4	219.0	159.4	209.4	204.6
Growmark FS	5595VT3*	VT3	P250	200.2	17.9	1.2	$1,056.6	7	219.7	177.2	215.2	172.7	201.4	214.9
TA Seeds	TA545-20*	3000GT	P250	199.7	18.1	0.5	$1,052.9	12	216.4	**196.8**	211.2	167.3	187.8	218.6
Hubner	H5451VT3	VT3	P250	198.8	20.4	1.4	$1,036.7	14	220.0	171.2	206.8	171.4	213.1	210.2
Channel	199-55VT3	VT3	P250	198.5	16.3	1.1	$1,055.5	11	213.4	179.9	**225.5**	154.7	192.5	**225.1**
Fielders Choice	NG6686	VT3	P250	197.9	19.2	5.3	$1,038.0	13	214.9	177.4	202.2	171.3	215.9	205.4
Augusta	A2857*	None	C250	196.8	19.0	2.6	$1,033.2	15	211.4	178.4	204.5	158.5	**219.8**	207.9
Dyna-Gro	D49VP59	VT3P	P250	196.6	20.2	1.9	$1,026.3	17	210.6	182.1	193.2	171.9	213.0	208.8
Doeblers	RPM 633HXR^	HX,RR2	C250	196.5	21.3	0.6	$1,020.3	18	219.2	173.5	211.4	168.2	201.6	205.0
Augusta	A5558VT3	VT3	P250	194.3	19.9	4.0	$1,015.7	20	204.3	165.2	191.3	169.5	214.0	221.3
Augusta	A5457P*	None	P250	194.1	19.2	2.5	$1,018.1	19	217.4	160.5	**223.8**	173.0	188.5	201.4
Dekalb	DKC52-59 GC	VT3	P250	193.7	16.8	1.7	$1,027.6	16	202.2	177.0	216.2	151.9	195.6	219.0
Augusta	A2855GT3*	3000GT	C250	193.0	18.9	2.3	$1,013.7	21	211.9	179.4	215.1	147.2	206.1	198.2
Dyna-Gro	D40SS09	VT3	P250	191.0	18.5	2.1	$1,005.1	22	198.2	187.5	215.7	155.8	188.8	200.0
Augusta	A2752GT3*	3000GT	C250	190.4	17.9	2.2	$1,004.8	23	198.7	172.0	209.5	159.7	196.2	206.0
Dyna-Gro	56R60	HXT,RR2	P250	190.3	18.7	2.9	$1,000.5	24	218.1	189.4	201.8	159.7	168.5	204.5
Pioneer	33K04 GC	HXT,RR2	C250	189.7	19.2	1.2	$995.0	25	208.3	170.8	204.8	172.5	192.2	189.8
Doeblers	RPM 615HRQ^	HXT,RR2	C250	188.6	19.8	1.7	$986.4	26	206.0	189.4	202.0	140.7	185.8	207.5
Augusta	A5337EVT3	VT3	C250	188.2	21.0	1.2	$978.6	27	204.6	152.9	197.8	164.8	200.4	208.6
Fielders Choice	NG6729	VT3	P250	186.5	21.4	1.6	$967.9	28	207.4	148.4	203.7	162.8	190.0	206.7
TA Seeds	TA531-00*	None	P250	182.8	17.2	3.6	$967.9	29	222.2	174.9	205.3	121.8	175.1	197.4
Augusta	A2850CC*	CB/LL	P250	167.2	17.0	9.4	$886.2	30	198.8	143.4	185.3	133.9	154.3	187.4
Test Average =				**195.5**	**18.9**	**2.3**	**$1,026.8**		**214.5**	**178.0**	**208.9**	**162.8**	**200.0**	**208.5**
LSD (0.10) =				10.0	0.9	2.6			16.9	18.3	13.5	15.3	19.7	13.1

Test Site Description						Test Average		
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	Stand (per A)	Lodging (%)	Yield (Bu/A)
Centre Hall	silt loam	conventional	Corn	161	5/17	32,200	1.8	214.5
Danville	silt loam	no-till	Soybean	167	5/1	32,200	0.9	178.0
Martinsburg	silty clay loam	no-till	Corn	170	5/7	34,400	1.6	208.9
McVeytown	clay loam	no-till	Soybean	135	5/10	30,700	7.0	162.8
Northumberland	sandy clay loam	no-till	Soybean	166	5/1	33,200	0.8	200.0
Ringtown	clay loam	minimum	Soybean	155	5/11	32,300	1.3	208.5

stalk or leaf diseases present. Heat also helped the crop mature well so that this year was overall about as good as one could hope for in this location. This Martinsburg test plot produced an average of 208.9 bu. per acre.

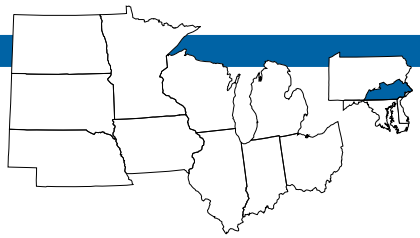
McVeytown – This plot looked really rough in June. Heat and lack of rain stressed corn until the middle of July. Desperately needed rains finally arrived in the middle to end of July. Corn height was very short because of the dry early season and many of the hybrids had ears only inches from the ground. Looking at the physical plot and seeing the yields, one couldn't help but wonder where the corn came from. It was very deceptive.

Ringtown – This site was consistent all season. It rained when we planted, rained most of the growing season and rained when we harvested. There was some gray leaf spot in this test, but not enough to cause lodging. Very little plant stress was observed here all summer. This was an excellent test, producing an average of 208.5 bu. per acre.

Centre Hall – This test plot was, in a word, "good." We saw good population with good rainfall, good weed control, good fertility and good standibility, and we saw good results! There was very little disease and very little plant stress. The sum of this equation is good yields that averaged 214.5 bu. per acre.

PASE Pennsylvania Southeast Corn Results

Rob Kauffman, FIRST Manager



Stats:
Yield Range: 121.0 to 232.5 bu. per acre
Yield Average: 185.3 bu. per acre
Top $ Per Acre: $1,234.60

Field Notes: Pennsylvania Southeast

Planting dates were right on target for most mid-Atlantic farmers. Although some started in early April, most hit the fields with force the third week to the last week of April, finishing around early- to mid-May. The PASE region started planting April 24 and finished May 7. Soil temps and moisture were excellent; most plots emerged around 7 days after planting. All PASE grain locations received good rainfall through May although some locations turned dry in June.

Timing of the dry weather did not seem to severely stunt corn in height or yield. Plots in the northern part of the region had excellent precipitation the entire summer with very little stress. Some storms caused green snapping at Elverson but only two hybrids showed any lodging because of it. Gray leaf spot was seen at most locations but came too late in the season do much more than infect the leaves. Anthracnose was present as well, but with an early harvest and no major storms lodging was minimal. Stalk rots were not evident and fungicide applications were not made this year. Overall plant health was good with only a few hybrid-specific related problems.

Herbicides worked well with the rainfall that came in May. Lebanon plot had some burcucumber come in late, with only runners reaching the ear at it highest point, it did not affect yield or harvest. Hailstorm at Lebanon caused some leaf shredding in September but it was only cosmetic damage.

Rootworm was the major insect pest, but most hybrids were protected. Adult rootworms did not cause any pollination problems due to feeding on silks. Most farmers were pleasantly surprised with yields in 2010. Although yields were not as good as 2009, with weather conditions less than optimum, yields were still respectable.

Spring Grove –There was ample early-season moisture to get uniform seedling establishment here at our Spring Grove test plot. Rainfall in June was limited but enough rain came in the middle of July to make up for June's shortcomings. This provided enough energy for pollination and grain fill. Some gray leaf spot showed up late in the season, causing only cosmetic injury. Spring Grove produced an average yield of 196.1 bu. per acre.

Elverson – This test site was an excellent plot! At Elverson this year we had very nice population and adequate rainfall. This, added to good weed control, excellent fertility and good weather, made for exceptional yields. The only real issue that we faced here this year was in some hybrids that had high lodging scores due to green snap from a mid-June thunderstorm. There was very little disease present and the stalk quality was good, as was the root structure. Overall, this was a great site.

Lancaster – This was a hot summer here in Lancaster. If it had not been for some timely rainfall in the middle of July, this corn-on-corn field may not have produced much

Photo courtesy of Rob Kauffman

The rolling hills of the Mid-Atlantic region are beautiful but make crop production and locating ideal uniform test sites a bit more challenging. Corn stand counts and roto-tilling of alleys between plots have just been completed. Corn plots are 45 feet in length by 10 feet wide. Field randomization of products creates a checker board appearance.

Farmer's Independent Research of Seed Technologies

ALL SEASON TEST 105 - 115 Day CRM — **Top 30 of 30 tested**

Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Elverson	Hanover	Kutztown	Lancaster	Lebanon	Spring Grove
Augusta	A5461GTCBLL	GT/CB/LL	P250	193.1	18.2	4.0	$1,017.6	1	223.2	151.1	190.9	185.5	206.6	201.5
Augusta	A06-06CBLL*	CB/LL	C250	192.5	18.8	2.8	$1,011.6	2	**232.5**	**175.1**	**200.1**	170.3	181.5	195.5
Channel	214-14VT3P	VT3P	P250	192.0	19.9	2.6	$1,003.7	4	223.0	157.8	192.1	170.2	**211.9**	197.0
TA Seeds	TA717-20*	3000GT	P250	191.7	20.1	2.0	$1,001.2	6	220.8	159.8	187.8	169.3	203.2	209.1
Hubner	H5555VT3	VT3	P250	191.5	18.8	3.4	$1,006.3	3	**228.0**	154.8	181.3	173.0	206.9	204.8
TA Seeds	TA778-13V*	VT3	P250	191.1	21.3	1.4	$992.3	9	210.9	156.2	**203.0**	**196.2**	197.6	182.9
Channel	210-61VT3	VT3	P250	190.0	19.2	2.2	$996.6	8	196.8	150.1	193.2	**187.6**	203.1	209.1
Fielders Choice	NG6893	VT3	P250	189.7	21.5	2.5	$984.1	12	195.2	161.8	182.2	183.5	201.2	**214.1**
Growmark FS	6296VT3	VT3	P250	189.2	17.1	10.0	$1,002.3	5	208.1	167.0	187.2	168.0	210.7	194.1
Hubner	EX606RR	RR2	P1250	189.0	17.8	5.8	$997.9	7	225.5	160.7	189.0	145.8	198.1	**214.8**
Doeblers	*RPM 723HXR^**	*HX,RR2*	*P250*	*188.8*	*22.2*	*2.4*	*$976.1*	*14*	***227.1***	*152.5*	*190.5*	*141.1*	***212.7***	*208.7*
Augusta	A5460GT3*	3000GT	C250	188.0	18.3	5.2	$990.3	10	212.2	152.1	**199.7**	166.1	190.1	207.6
Doeblers	RPM 725HRQ^	HXT,RR2	C250	187.8	21.7	4.4	$973.3	17	216.9	154.7	183.4	153.7	204.7	**213.4**
Augusta	*A6166GTCBLL**	*GT/CB/LL*	*C250*	*187.0*	*22.6*	*1.5*	*$964.9*	*20*	*203.4*	*161.2*	*181.3*	*171.0*	*204.6*	*200.4*
Augusta	A6164GT3*	3000GT	C250	186.8	19.8	1.8	$977.0	13	216.6	151.9	194.9	165.8	193.8	197.9
Channel	209-77VT3	VT3	P250	186.4	17.5	5.9	$985.6	11	**231.0**	131.2	182.6	186.2	189.4	198.0
Channel	213-32VT3	VT3	P250	185.6	18.8	4.1	$975.3	15	215.4	157.1	177.1	174.0	194.3	195.4
Dyna-Gro	57V59	VT3	P250	185.6	19.0	5.8	$974.4	16	212.1	158.5	183.6	179.6	192.8	187.2
Fielders Choice	NG6729	VT3	P250	184.4	18.9	3.1	$968.6	19	213.1	133.2	190.2	180.5	190.5	198.8
TA Seeds	TA657-13VP*	VT3P	P250	183.9	18.1	11.2	$969.6	18	218.9	144.5	165.9	177.5	188.9	207.7
TA Seeds	TA765-00*	NONE	P250	183.4	21.5	7.9	$951.4	24	221.3	121.8	188.6	156.5	201.2	210.9
Dyna-Gro	57V40	VT3	P250	180.9	17.4	5.9	$957.0	21	195.8	121.0	187.5	178.9	199.4	202.8
Augusta	A5558VT3	VT3	P250	180.4	17.1	17.9	$955.7	22	215.3	142.0	170.4	169.7	210.3	174.7
Augusta	A5337EVT3	VT3	C250	180.4	19.4	7.7	$945.3	25	200.6	158.7	175.6	173.9	186.5	187.3
Fielders Choice	NG6834	VT3	P250	179.7	19.9	2.8	$939.4	27	200.0	152.5	184.5	164.0	192.4	184.9
Fielders Choice	NG6686	VT3	P250	179.5	16.5	9.5	$953.6	23	207.3	148.8	188.6	167.6	196.2	168.5
Doeblers	679GRQ	3000GT	C250	177.9	17.0	0.6	$942.9	26	203.4	138.7	184.3	166.1	195.9	178.8
Hubner	H5505VT3P	VT3P	P250	175.8	17.8	12.0	$928.2	28	176.0	149.3	194.3	169.5	167.0	198.8
Pioneer	34P92 GC	HXT,RR2	C250	174.2	19.1	1.8	$914.1	30	174.2	**170.7**	178.4	160.5	184.5	176.7
Dekalb	DKC53-78 GC	SS	P250	173.2	15.3	4.1	$925.3	29	200.8	129.8	188.2	163.7	193.6	162.8
Test Average =				**185.3**	**19.0**	**5.1**	**$972.7**		**210.8**	**150.8**	**186.5**	**170.5**	**197.0**	**196.1**
LSD (0.10) =				11.3	1.1	7.3			14.8	19.2	11.4	16.0	14.3	17.1

Test Site Description						Test Average		
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	Stand (per A)	Lodging (%)	Yield (Bu/A)
Elverson	silt loam	no-till	Soybean	195	4/30	33,000	5.4	210.8
Hanover	silty clay loam	conventional	Soybean	190	5/14	32,200	0.5	150.8
Kutztown	silt loam	conventional	Soybean	170	4/8	32,600	12.6	186.5
Lancaster	silty clay loam	no-till	Corn	165	5/6	30,900	1.8	170.5
Lebanon	silt loam	minimum	Soybean	154	5/8	32,300	8.8	197.0
Spring Grove	silty clay loam	no-till	Corn	165	4/29	33,400	1.3	196.1

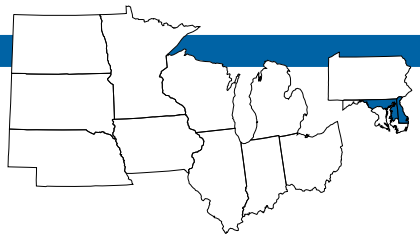
of a yield. These rains, though, certainly helped this non-irrigated field produce yield results of 141.1 bu. per acre to 196.2 bu. per acre for an average of 170.5 bu. per acre. A dry September did reduce yields but it also helped dry corn moisture.

Kutztown – It was a hotter-than-normal summer in Kutztown this year. We did have ample rainfall, except for middle to late August. Some gray leaf spot and anthracnose were present. Stand problems were evident with some products. This test is especially useful for assessing both yield and lodging potential.

Lebanon – This test site saw ample rainfall most of the summer. A dry middle of August may have taken some of the top-end yield. There was some gray leaf spot but it was not severe enough to affect standability or yield. A hailstorm in late July cut some leaves but did not impact normal corn maturing. Overall, this was a good plot, both in yield and in standability measurements.

Hanover – This test site had heavy rain right after planting, which caused some herbicide injury. The hot and dry conditions of June and July added to the plant stress, as this is a non-irrigated field. Corn was shortened, with most hybrids under six feet in height. Desperately needed rains finally came in late July. The ears and kernels looked good, but the ears were small in diameter due to the early-season stress levels.

Rob Kauffman, FIRST Manager



Stats:
Yield Range: 115 to 225.2 bu. per acre
Yield Average: 169.4 bu. per acre
Top $ Per Acre: $1,191.90

Field Notes: Delaware Maryland North

Of the three Mid-Atlantic regions, Delmarva had the toughest conditions. A hot and dry summer followed by late-season storms tested corn hybrids all season long. Planting was done in timing with all plot cooperators and rain during planting did not hold things back like previous years. The last plot was planted by May 15.

Growing conditions early were good; plants showed excellent emergence and early season vigor. Most plots reached knee high by June 10. After mid-June corn was under severe moisture stress. Most locations saw less than 1" of rainfall for the remainder of June and July. Some locations did get a shower in mid-July, which kept things alive. Generally the farther south you went in the Delmarva region the more severe the drought. Some farmers disked down corn fields in July and planted soybeans only to have drought conditions worsen.

Due to the high drought stress we saw higher than normal stalk-rot issues. Anthracnose was bad, and we also had some Diplodia. Thankfully all but two plots were harvested before a major storm went through in early October.

Weed control was good due to soil moisture and early rains, perennial bindweed and some common lambsquarters were scattered but did not cause any yield or harvest issues. Insect pressure was low due to crop rotation from wheat or soybeans. Yields were off from years before, but with the droughty summer conditions most farmers were glad to get something. Many will be looking at changing some hybrids due to the success or lack of performance through this season.

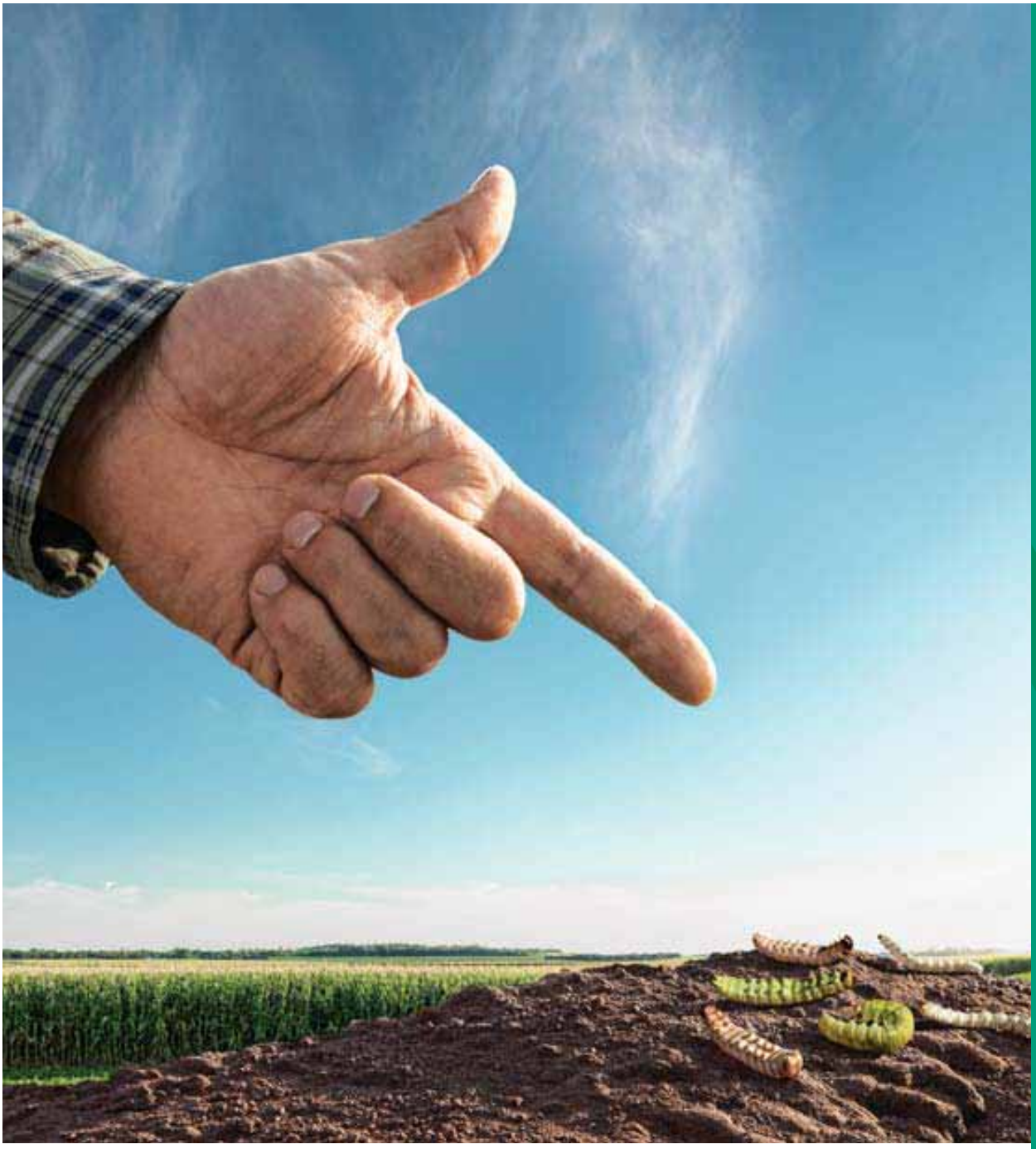
Middletown – The Middletown test plot, which was previously planted with soybeans, was seeded on May 4. We experienced a very hot and dry summer. The lack of rain caused lower yields in the hybrids planted here, as they matured earlier than the fuller season products, which had a higher yield. The average yield for this test location was 158 bu. per acre.

Bridgeville – Bridgeville was no exception to the hot and dry summer we experienced in this region. Even with irrigation, the weather caused some stress to our corn crop this year. To add to the hot and dry summer, late-season storms and heavy rains caused the corn to go down; some hybrids were root lodged while others broke at the knees. Only a few hybrid yields were affected by field loss. Some anthracnose was present prior to harvest. No fungicide was applied.

Chestertown – Chestertown also suffered from the hot and dry weather this year. June and July were extremely bad, and the end result was a decrease in productivity. We did receive a few showers in late July that saved

Photo courtesy of Eric Beyers

F.I.R.S.T. host farmers will harvest the crop around the test to give F.I.R.S.T managers access to the plots. Here you quickly notice varying degrees of lodging and color attributed to soybean varietal diversity at harvest.



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Farmer's Independent Research of Seed Technologies

ALL SEASON TEST 105 - 115 Day CRM — **Top 30 of 30 tested**

Company	Brand	Technology	Insecticide Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Bridgeville	Chestertown	Middletown	Sudlersville	Warwick	Westminster
Channel	214-14VT3P	VT3P	P250	**189.4**	19.3	7.4	$992.9	1	**225.2**	**158.9**	170.4	**179.7**	**183.4**	**218.5**
Augusta	A06-06CBLL*	CB/LL	C250	**183.3**	17.3	11.5	$970.1	2	211.8	**163.6**	167.1	174.6	**177.3**	205.3
Hubner	H5909VT3P	VT3P	P250	**181.2**	19.5	2.6	$949.0	3	209.9	140.8	172.2	170.2	170.1	**224.1**
Doeblers	RPM 633HXR^	HX,RR2	C250	176.8	18.7	2.7	$929.5	6	207.0	**162.9**	162.5	167.0	**179.6**	181.6
TA Seeds	TA778-13V*	VT3	P250	176.2	20.1	4.7	$920.2	9	201.9	145.2	**185.9**	171.5	165.7	187.1
TA Seeds	TA717-11*	CB/LL	P250	176.1	19.3	3.5	$923.2	7	207.1	150.6	**186.7**	169.7	151.4	191.2
Augusta	A5461GTCBLL	GT/CB/LL	P250	176.0	16.7	9.9	$934.1	4	**223.6**	**156.0**	139.7	175.1	157.6	203.7
Hubner	H5505VT3P	VT3P	P250	175.9	16.9	5.1	$932.7	5	202.8	150.8	161.3	167.7	165.5	207.3
Channel	213-32VT3	VT3	P250	175.2	18.8	2.3	$920.7	8	211.4	140.3	177.0	155.9	162.1	204.4
Hubner	H5655VT3	VT3	P250	174.4	18.6	3.6	$917.3	10	216.4	142.1	147.0	159.9	169.8	**211.0**
Hubner	H5555VT3	VT3	P250	172.5	18.1	4.6	$909.5	11	204.8	142.5	158.9	151.4	**174.8**	202.5
Augusta	A5462GT3*	GT	P250	171.2	18.6	4.6	$900.5	13	206.4	138.3	158.8	170.4	153.7	199.3
TA Seeds	TA656-00*	None	P250	170.7	17.4	17.1	$903.0	12	205.4	146.3	154.7	149.1	165.3	203.3
Dyna-Gro	57V59	VT3	P250	170.5	18.4	2.1	$897.7	15	**218.6**	115.0	171.2	159.5	156.6	201.9
Growmark FS	6296VT3	VT3	P250	170.0	17.3	21.8	$899.7	14	190.5	150.2	170.0	165.6	145.1	198.4
Doeblers	*RPM 723HXR^**	*HX,RR2*	*P250*	*169.9*	*20.3*	*21.8*	*$886.5*	*16*	*177.7*	*147.4*	*167.1*	***178.2***	*150.7*	*198.0*
Doeblers	721XY	None	C250	168.1	19.9	23.3	$878.7	20	191.7	146.7	165.4	165.1	148.6	191.3
Dyna-Gro	57V40	VT3	P250	167.7	17.9	17.5	$885.0	17	199.1	141.9	157.9	163.3	152.9	190.9
Pioneer	34F96 GC	HXT,RR2	C500	166.8	17.8	7.8	$880.7	19	195.8	132.4	161.2	155.6	159.6	196.3
Augusta	A5558VT3	VT3	P250	166.5	16.7	16.9	$883.7	18	193.1	132.8	154.5	168.1	149.0	201.2
Channel	210-61VT3	VT3	P250	165.7	18.0	21.2	$874.1	21	182.1	132.9	146.9	169.3	172.6	190.2
TA Seeds	*TA765-00**	*None*	*P250*	*165.3*	*20.5*	*22.6*	*$861.6*	*22*	*168.7*	*146.4*	*159.1*	*176.4*	*157.3*	*184.0*
Fielders Choice	NG6834	VT3	P250	163.5	19.6	13.3	$855.9	23	188.3	128.5	159.6	166.5	152.3	185.6
Augusta	A6164GT3*	3000GT	C250	162.0	18.5	9.0	$852.5	24	186.8	137.6	172.9	152.7	142.1	179.9
Fielders Choice	NG6729	VT3	P250	160.8	17.6	18.8	$849.8	25	177.0	135.4	138.3	173.3	152.2	188.6
Augusta	A5337EVT3	VT3	C250	160.2	18.4	23.4	$843.5	27	177.1	142.3	138.6	158.7	163.7	180.8
Augusta	A5460GT3*	3000GT	C250	160.0	18.1	6.0	$843.6	26	211.1	128.9	138.6	164.7	148.6	167.9
TA Seeds	TA790-18*	GT	P250	157.9	20.1	16.4	$824.6	29	190.0	135.0	133.0	157.7	144.4	187.1
Fielders Choice	NG6686	VT3	P250	157.0	16.4	30.8	$834.5	28	180.2	128.3	140.1	169.4	140.2	183.9
Dekalb	DKC52-59 GC	VT3	P250	149.9	14.8	15.3	$802.7	30	189.4	117.6	124.7	150.9	138.3	178.7
Test Average =				**169.4**	**18.3**	**12.3**	**$891.9**		**198.4**	**141.3**	**158.0**	**165.2**	**158.4**	**194.8**
LSD (0.10) =				9.9	1.0	11.5			18.2	12.2	19.6	12.3	15.8	16.2

this crop from failure. Most of the hybrids put on an ear, but the kernel size was small and the ear length was very short.

Sudlersville – The hot summer heat and lack of precipitation took its toll on our Queen Anne County test plot this summer; it was amazing that we were able to even grow a crop here. This field, previously planted with wheat and soybeans, was planted on May 4. Despite the hot and dry conditions of summer, we were able to harvest a crop that yielded an average of 165.2 bu. per acre!

Westminster – It was hard to believe the relatively high yields we were able to gain with so little rain and such hot temperatures here this summer. This test plot was planted with soybeans last year and we seeded it with corn on May 14 this year. The yield range was between 167.9 bu. per acre and 224.1 bu. per acre for an average of 194.8 bu. per acre.

Warwick – Summer was hot and dry here in Warwick. The dry weather in June caused the corn to be very short. Many of the hybrids' ears were within inches of the ground. Timely rainfall in July and August did help make a decent crop. The timing of harvest resulted in few product differences based on grain moisture but lodging differences were quite apparent. Anthracnose was the main stalk disease evident at this location.

Test Site Description						Test Average		
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	Stand (per A)	Lodging (%)	Yield (Bu/A)
Bridgeville	sandy loam	conventional	Soybean	259	5/4	34,400	35.1	198.4
Chestertown	sandy loam	minimum	Corn, 2+ yr	179	5/5	31,600	0.7	141.3
Middletown	sandy loam	conventional	Soybean	215	5/4	32,400	17.3	158.0
Sudlersville	sandy clay	no-till	Wheat/soy-bean	160	5/4	31,300	0.3	165.2
Warwick	sandy loam	minimum	Soybean	169	5/15	33,800	17.3	158.4
Westminster	clay loam	no-till	Soybean	185	5/14	32,800	2.7	194.8

Eric Beyers, FIRST Manager

Stats:

Yield Range: 48.1 to 73.2 bu. per acre
Yield Average: 62.1 bu. per acre
Top $ Per Acre: $813.50

Field Notes: Illinois North Central

Towanda – A Dawn Pluribus strip-till bar was used in the standing corn stubble to provide a clean, tilled 10" strip. (see *www.dawnequipment.com* for more info) The tilled zone boosted yields since the plot yields rivaled the surrounding field's early-May no-till planting date. Harvested seed size ranged from 2,800 to 3,800 seeds per pound. The seed coat quality was excellent.

Macomb – Winds from numerous storms caused significant lodging. Harvested seed size ranged from 3,300 to 4,000 seeds per pound. Plant emergence was uniform with good singulation. Plants ranged from 42" to 55" tall.

Rossville – Plants were average heights of 35"to 48" with lower pod placement around 2" above the soil. Harvested seed had excellent seed coat quality and sizes ranged from 3,300 to 4,000 seeds per pound. Many plants had reduced pod set in the top foot, perhaps from high August heat.

Easton – Harvested seed size was very small, ranging between 3,600 to 4,200 seeds per pound. Harvested plant heights averaged 36" to 42". This test plot exhibited great yields for a May 31 planting date. Many soybean fields in the area were planted as late as July.

Test Site Description

Site	Soil Texture	Tillage	Spacing	Planting Date	Stand	SCN Pop.
Easton	silt loam	minimum	30, TR8	5/31	139,400	low
Macomb	silty clay loam	minimum	30, TR8	5/27	139,400	medium
Rossville	silty clay loam	minimum	30, TR8	5/27	104,500	low
Towanda	silty clay loam	strip-till	30, TR8	5/27	104,500	medium

2.9 - 3.6 Maturity Group — **Top 30 of 54 tested**

Company	Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Easton	Macomb	Rossville	Towanda
FS Seeds	HS33A02	RR2Y	3.3	R	AC	**69.3**	7.0	3.3	$744.9	**71.1**	66.1	**67.9**	**72.2**
Dyna-Gro	37RY33	RR2Y	3.3	R	AC	**69.2**	7.2	3.9	$716.3	**70.2**	**69.8**	**63.9**	**73.0**
Stone	2R3401	RR2Y	3.4	R	AC	**69.2**	7.1	3.9	$695.5	**71.0**	67.1	**65.3**	**73.2**
Kruger	K2-3402	RR2Y	3.4	R	AC	**68.1**	7.1	3.3	$686.4	65.4	**69.7**	**64.8**	**72.4**
Channel	3402R2	RR2Y	3.4	R	AC	**67.9**	7.2	3.7	$685.1	**67.7**	67.5	**64.8**	**71.5**
Channel	3303R2	RR2Y	3.3	R	AC	**65.9**	6.7	5.0	$679.9	**67.1**	65.7	**66.9**	63.9
Withdrawn	EX333	RR2Y	3.3	MR	AC	**65.3**	7.0	8.2	$673.4	62.0	64.4	**64.4**	**70.3**
Diener	3311CR2	RR2Y	3.2	MR	AC	65.0	7.0	2.6	$670.8	**66.1**	66.1	60.5	67.2
Asgrow	AG3131	RR2Y	3.1	R	AC	65.0	7.2	6.4	$664.3	63.2	66.6	61.2	68.8
Stine	3522-4	RR	3.5	R	CM	64.6	6.8	13.3	$661.7	59.3	68.0	**63.1**	68.1
Asgrow	AG3030	RR2Y	3.0	R	AC	64.5	7.3	10.3	$655.2	64.6	66.6	**62.7**	64.2
Kruger	K2-3002	RR2Y	3.0	R	AC	64.3	7.1	6.7	$653.9	58.3	68.0	60.7	**70.2**
Asgrow	AG3231	RR2Y	3.2	R	AC	64.0	7.1	0.8	$651.3	60.7	65.5	61.4	68.2
Diener	3261CR2	RR2Y	3.2	R	AC	63.7	6.8	7.3	$651.3	60.7	**70.7**	59.7	63.6
Channel	3404R2	RR2Y	3.4	R	AC	63.6	6.9	7.9	$650.0	62.4	**68.9**	58.4	64.5
Lewis	361R2	RR2Y	3.6	R	AC	63.4	6.9	3.4	$648.7	63.7	67.1	59.2	63.7
Kruger	K2-3103	RR2Y	3.1	R	AC	63.3	6.9	7.7	$647.4	59.4	66.2	59.8	67.9
FS Seeds	HS31A02	RR2Y	3.1	R	AC	62.9	6.9	5.4	$644.8	61.1	63.4	60.4	66.5
Kruger	K2-3302	RR2Y	3.3	R	AC	62.8	7.3	5.1	$637.0	62.3	65.9	60.0	62.8
FS Seeds	HS35A02	RR2Y	3.5	R	AC	62.7	6.9	7.5	$637.0	61.6	64.4	59.3	65.3
Diener	3551CR2	RR2Y	3.5	R	AC	62.6	7.3	5.0	$635.7	60.9	63.5	58.9	66.9
Dyna-Gro	39RY30	RR2Y	3.0	R	AC	62.5	7.0	4.9	$633.1	61.2	65.2	59.8	63.6
Asgrow	AG3431	RR2Y	3.4	R	AC	62.5	6.9	5.1	$629.2	63.1	64.2	60.2	62.6
Withdrawn	EX331	RR2Y	3.1	MR	AC	62.5	7.6	19.6	$625.3	61.0	62.6	58.9	67.4
Stone	2R2801	RR2Y	2.8	R	AC	62.4	7.4	6.5	$622.7	61.3	60.8	61.2	66.3
Stone	2R3001	RR2Y	3.0	R	AC	62.1	6.8	4.5	$618.8	59.2	63.1	60.5	65.4
Kruger	K2-2901	RR2Y	2.9	R	AC	62.0	7.0	4.8	$616.2	58.3	63.7	60.2	65.9
Beck	XL 299NR^	RR	2.9	R	ES	61.9	7.3	11.1	$603.2	61.6	61.7	57.9	66.5
Diener	3012CR2	RR2Y	3.0	R	AC	61.6	6.8	4.3	$588.9	58.6	61.8	59.6	66.3
Diener	3131CR2	RR2Y	3.1	R	AC	61.5	6.9	4.9	$586.3	64.5	62.0	57.2	62.1
Site Averages =						**62.1**	**7.1**	**7.1**	**$683.1**	**60.5**	**62.4**	**59.6**	**65.8**
LSD (0.10) =						3.2	0.3	7.8		5.5	6.0	2.3	4.0

Field Notes: Illinois South Central

Eric Beyers, FIRST Manager

Stats:
Yield Range: 43.3 to 71.1 bu. per acre
Yield Average: 57.1 bu. per acre
Top $ Per Acre: $791.80

Tuscola – John Carmack's field surrounding the test plot, planted May 7, yielded around 66 bu. per acre. The test plot's later planting date of May 28 may have reduced some yield potential, as it averaged 50.4 bu. per acre. Harvested plant heights were from 42" to 55" tall. Plant internode lengths were from 3" to 4" long. Lodging on this site was minimal, as this field had a uniform stand.

Forsyth – Plants at this site had even emergence and uniform seed singulation within all rows. The harvested seed coat quality was excellent. Heights ranged from 36" to 50". Jim Cullison commented that his combine yield monitor ranged upward of 85 bu. per acre in certain areas.

Virden – This had moderately high lodging due to very tall plants of 42" to 55" at harvest. The lower three nodes aborted pod development due to flooding, and the upper plant pod development suffered from high heat in August. Sudden death syndrome (SDS) pressure at this plot was slight.

Clayton – Soybean plants ranged from 42" to 55" tall with lower pods located 5" above the soil line. Lodging at this site was moderately high and thus required harvesting in only one direction.

Test Site Description

Site	Soil Texture	Tillage	Spacing	Planting Date	Stand	SCN Pop.
Clayton	silty clay loam	no-till	30, TR8	5/26	104,500	low
Forsyth	silty clay loam	minimum	30, TR8	5/28	139,400	low
Tuscola	silty clay loam	no-till	30, TR8	5/28	104,500	medium
Virden	silt loam	conventional	30, TR8	5/28	139,400	medium

3.4 - 4.1 Maturity Group — **Top 30 of 54 tested**

Company	Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Clayton	Forsyth	Tuscola	Virden
Asgrow	AG3731	RR2Y	3.7	R	AC	**63.2**	6.1	0.9	$695.2	**69.5**	67.3	**55.4**	**60.4**
Channel	3701R2	RR2Y	3.7	R	AC	**62.7**	6.4	0.4	$689.7	**68.1**	**70.3**	**54.9**	57.3
Withdrawn	EX337	RR2Y	3.7	MR	AC	**61.4**	6.5	5.3	$675.4	**67.3**	68.6	51.5	**58.0**
Stone	2R3401	RR2Y	3.4	R	AC	**61.3**	6.7	1.0	$674.3	**69.0**	**70.8**	52.6	52.9
Asgrow	AG3931	RR2Y	3.9	R	AC	**61.1**	6.7	3.9	$672.1	58.7	**69.7**	52.9	**63.0**
Asgrow	AG3830	RR2Y	3.8	R	AC	**60.5**	6.3	3.7	$665.5	60.6	65.9	53.7	**61.7**
FS Seeds	HS39A02	RR2Y	3.9	R	AC	60.3	6.6	1.5	$663.3	60.9	**71.1**	**56.3**	52.9
Kruger	K2-3801	RR2Y	3.8	R	AC	59.9	6.7	1.3	$658.9	60.9	67.5	53.5	57.6
FS Seeds	HS38R80	RR	3.8	R	CM	59.8	6.6	0.4	$657.8	63.1	65.8	**54.2**	55.9
Kruger	K2-3602	RR2Y	3.6	R	AC	59.5	6.5	5.2	$654.5	62.9	67.2	50.8	57.2
Diener	3712CR2	RR2Y	3.7	R	AC	59.4	6.5	0.3	$653.4	**68.1**	65.7	52.4	51.5
Diener	3551CR2	RR2Y	3.5	R	AC	59.2	6.5	0.9	$651.2	62.5	66.7	52.1	55.3
Stone	2R3701	RR2Y	3.7	R	AC	59.2	6.4	2.1	$651.2	66.0	65.0	51.2	54.5
Stone	2R3901	RR2Y	3.9	R	AC	58.9	6.5	6.0	$647.9	61.4	66.0	**53.9**	54.1
Stone	2R3801	RR2Y	3.8	R	AC	58.5	6.1	2.3	$643.5	**67.3**	65.8	48.4	52.4
Kruger	K2-3601	RR2Y	3.6	R	AC	58.5	6.7	3.8	$643.5	58.0	69.0	52.5	54.4
Diener	3822CR2	RR2Y	3.9	R	AC	58.5	6.6	5.3	$643.5	64.0	62.3	51.9	55.8
Beck	XL 400NR^	RR	4.0	R	ES	58.5	6.3	5.8	$643.5	61.9	65.3	52.3	54.5
Asgrow	AG3831	RR2Y	3.8	R	AC	58.5	6.6	8.8	$643.5	59.1	65.5	53.3	56.1
Kruger	K2-4101	RR2Y	4.1	R	AC	58.2	6.2	2.7	$640.2	63.2	66.1	49.0	54.5
Stone	2R3600	RR2Y	3.6	R	AC	58.1	6.9	3.0	$639.1	60.8	65.7	52.3	53.5
FS Seeds	HS37A02	RR2Y	3.7	R	AC	58.1	6.4	6.1	$639.1	59.8	65.8	52.3	54.6
Kruger	K2-3402	RR2Y	3.4	R	AC	58.0	7.2	0.9	$638.0	**66.3**	57.7	**54.8**	53.2
Stone	2R3900	RR2Y	3.9	R	AC	57.9	6.2	2.4	$636.9	65.3	61.9	48.1	56.1
Channel	4102R2	RR2Y	4.1	R	AC	57.8	6.8	1.9	$635.8	58.2	63.8	50.6	**58.7**
eMerge	389FYC	None	3.8	R	CM	57.8	6.7	9.6	$635.8	61.5	62.6	52.2	54.7
Beck	XL 325NR^	RR	3.4	R	ES	57.6	6.4	4.0	$633.6	60.6	63.2	52.0	54.4
Channel	4000R2	RR2Y	4.0	R	AC	57.0	6.5	4.4	$627.0	61.4	62.2	48.6	55.9
Lewis	381R2	RR2Y	3.8	R	AC	56.9	6.1	3.4	$625.9	61.6	63.7	49.3	53.0
eMerge	348TCS	STS	3.4	R	CM	56.7	6.9	1.2	$623.7	60.8	62.6	52.4	51.1
Site Averages =						**57.1**	**6.6**	**3.5**	**$628.5**	**60.6**	**63.6**	**50.4**	**54.0**
LSD (0.10) =						3.4	0.4	4.5		5.7	5.5	3.4	4.0

XYLEM MOBILITY

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Eric Beyers, FIRST Manager

Stats:
Yield Range: 23.0 to 61.4 bu. per acre
Yield Average: 49.7 bu. per acre
Top $ Per Acre: $679.10

Field Notes: Illinois South

Marshall – This plot had good yields for a May 29 planting date. Harvested seeds were near 3,400 to 4,200 seeds per pound. The internode lengths were 2" to 3". Minimal lodging was reported.

Du Quoin – Harvested seed had great coat quality and larger sizes of 2,400 seeds per pound to 3,200 seeds per pound. Plant heights ranged from 36" to 46" tall. This plot had excellent yields (54.6 bu. per acre average) for single 30" row planting. Soybean cyst nematode (SCN) tests reflected high pressure.

Belleville – This site had severe lodging from heavy rains. Most harvesting was one direction. Harvested seed size varied widely from 2,600 seeds per pound to 4,000-plus seeds per pounds. Plant heights were up to 55". It is possible that sudden death syndrome (SDS) at this site may have contributed to some varieties' low yields.

Vandalia – Multiple (three- to five-inch) rains immediately after planting reduced stands. Rains continued through early July, making replant impossible. Yields were surprisingly good, despite lower populations. Harvested seed size ranged from 2,500 seeds per pound to 3,000 seeds per pound. SCN tests reflect moderately high pressure.

Test Site Description

Site	Soil Texture	Tillage	Spacing	Planting Date	Stand	SCN Pop.
Belleville	silt loam	no-till	30, TR8	5/30	104,500	medium
Du Quoin	clay loam	minimum	30	5/24	122,000	high
Marshall	silty clay loam	conventional	30, TR8	5/29	139,400	low
Vandalia	silty clay loam	minimum	30, TR8	5/30	84,900	high

4.0 - 4.7 Maturity Group — Top 30 of 36 tested

Company	Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Belleville	Du Quoin	Marshall	Vandalia
Kruger	K2-4601	RR2Y	4.6	R	AC	**55.8**	9.0	0.8	$613.8	**56.0**	57.8	**55.8**	53.5
Diener	4415CR	RR	4.4	R	AC	54.3	9.5	3.3	$597.3	**52.1**	55.2	51.0	**58.8**
Beck	XL 466NR^*	RR	4.6	R	ES	53.8	8.6	6.3	$591.8	**52.4**	55.0	**55.3**	52.3
FS Seeds	HS45A02	RR2Y	4.5	R	AC	53.7	8.9	1.4	$590.7	47.8	**59.3**	**57.4**	50.4
Beck	XL 400NR^	RR	4.0	R	ES	53.6	8.1	6.4	$589.6	**52.2**	50.5	**55.3**	**56.4**
Kruger	K2-3902	RR2Y	3.9	R	AC	53.5	9.4	8.2	$588.5	**56.3**	54.0	52.4	51.3
FS Seeds	HS47A02	RR2Y	4.7	R	AC	53.1	8.8	3.2	$584.1	48.6	55.3	**54.6**	53.7
FS Seeds	HS45T70	RR,STS	4.5	R	CM	53.0	8.8	2.1	$583.0	45.3	**60.0**	**56.1**	50.7
Kruger	K2-4302	RR2Y	4.3	R	AC	53.0	8.4	3.3	$583.0	49.4	**59.4**	50.7	52.4
Kruger	K2-4202	RR2Y	4.2	R	AC	52.4	9.4	0.3	$576.4	49.0	55.3	53.7	51.7
Kruger	K2-4101	RR2Y	4.1	R	AC	51.3	8.1	7.8	$564.3	50.6	58.0	54.0	42.5
Kruger	K2-4201	RR2Y	4.2	R	AC	51.2	8.6	2.5	$563.2	45.3	55.8	51.7	52.1
Diener	4001CR2	RR2Y	4.0	R	AC	51.1	8.3	6.3	$562.1	46.0	58.4	51.7	48.3
Beck	XL 432NR^*	RR	4.3	R	ES	50.6	8.8	4.6	$556.6	39.2	**61.4**	**57.3**	44.3
Channel	4700R2	RR2Y	4.7	R	AC	50.5	8.9	6.2	$555.5	50.0	54.0	46.5	51.6
FS Seeds	HS44A02	RR2Y	4.4	MR	AC	50.2	8.2	5.1	$552.2	44.1	54.9	48.9	52.8
Stone	2R4201	RR2Y	4.2	R	AC	49.9	9.6	6.4	$548.9	43.0	55.0	**55.8**	45.6
Stone	2R3900	RR2Y	3.9	R	AC	49.4	8.4	9.2	$543.4	43.5	57.7	52.1	44.2
Dyna-Gro	37RY47	RR2Y	4.7	R	AC	49.1	8.5	1.8	$540.1	41.8	55.3	42.6	**56.5**
Kruger	K2-4701	RR2Y	4.7	R	AC	48.8	8.9	1.9	$536.8	43.2	54.1	47.0	50.8
Beck	445NR*	RR,STS	4.4	R	ES	48.7	8.7	6.3	$535.7	40.0	57.2	**55.9**	41.6
Hoffman	HL42L11*	LL	4.2	R	None	48.7	9.5	16.5	$535.7	41.5	50.1	51.5	51.5
Beck	426NL*	LL	4.2	R	ES	48.6	9.1	9.9	$534.6	50.8	48.8	51.5	43.2
FS Seeds	HS47A91	RR2Y	4.7	S	AC	48.4	8.8	3.8	$532.4	40.9	54.9	46.2	51.6
eMerge	e4310S*	STS	4.3	R	CM	48.2	9.2	10.9	$530.2	44.7	50.2	48.8	49.0
eMerge	e4510S*	STS	4.5	R	CM	47.9	9.0	7.6	$526.9	37.7	55.1	53.9	44.9
Dyna-Gro	35X43	RR	4.3	MR	AC	47.8	8.9	18.7	$525.8	35.4	56.7	48.5	50.5
Dyna-Gro	39RY41	RR2Y	4.1	R	AC	47.6	9.7	1.8	$523.6	40.6	55.2	50.8	43.8
Channel	4500R2	RR2Y	4.5	S	AC	47.3	8.7	3.0	$520.3	38.7	52.8	45.1	52.4
Kruger	K2-4501	RR2Y	4.5	S	AC	47.2	8.6	5.4	$519.2	38.1	54.8	43.3	52.5
Site Averages =						**49.7**	**8.9**	**5.9**	**$546.8**	**43.3**	**54.6**	**51.0**	**49.9**
LSD (0.10) =						6.0	0.6	9.4		8.2	3.9	3.5	5.3

Rich Schleuning, FIRST Manager

Stats:
Yield Range: 56.0 to 86.2 bu. per acre
Yield Average: 73.7 bu. per acre
Top $ Per Acre: $938.70

Field Notes: Indiana Central

Greensburg – This plot had heavy rain and some ponding. Some varieties retained dead leaves, creating a hard feed into the cylinder. There was moderate lodging on varieties that elongated due to good early-season weather. Top pods had no or BB-sized beans, indicative of a dry late season.

Windfall – Ample rainfall patterns this year delivered tall soybean plants, with heights ranging from 38" to 49". Surprisingly, there were some short varieties that were only 24" tall, with no evidence of water issues. The dry fall and rapid drydown made harvest losses a challenge with head shatter and cracked or split beans.

Otterbein – This location had tremendous vegetative growth as bean height ranged from 40" to 60". All products stood well at harvest. Some varieties had five to seven pods per node, each containing three beans. Fungicide was applied to this test plot. Average yield was 75.6 bu. per acre.

Wingate – A few products lodged slightly. Rainfall was above normal. In spite of being fairly well drained, water still shortened up plants in a few areas. Plant height ranged from 27" to 47". Yields averaged 70.9 bu. per acre.

Test Site Description

Site	Soil Texture	Tillage	Spacing	Planting Date	Stand	SCN Pop.
Greensburg	silt loam	no-till	15	5/10	165,200	low
Otterbein	silt loam	no-till	15	5/11	164,600	low
Windfall	silty clay loam	conventional	15	5/10	159,900	medium
Wingate	silty clay loam	no-till	15	5/10	154,100	low

3.4 - 4.1 Maturity Group — **Top 30 of 36 tested**

Company	Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Greensburg	Otterbein	Windfall	Wingate
Stewart	3300R2	RR2Y	3.3	R	AC	**79.3**	8.4	1.3	$856.4	75.1	**86.1**	**86.2**	69.6
Diener	3712CR2	RR2Y	3.7	R	AC	**79.2**	9.1	1.0	$855.4	76.0	81.2	80.4	**79.1**
Beck	XL 325NR^	RR	3.4	R	ES	79.0	9.3	2.2	$853.2	**81.0**	76.9	81.8	**76.4**
Ebberts	2291RR2*	RR2Y	2.9	R	AC	78.7	9.9	1.0	$850.0	77.2	76.0	**86.0**	75.4
Ebberts	1365RR*	RR	3.6	R	T6	78.4	8.9	1.3	$846.7	**78.7**	80.3	75.6	**79.0**
Ebberts	2300RR2*	RR2Y	3.0	R	AC	78.2	9.3	2.7	$844.6	**82.8**	79.2	80.9	70.0
Stewart	3600R2	RR2Y	3.6	R	AC	77.2	8.8	1.5	$833.8	**78.5**	79.5	78.4	72.4
Stewart	3400R2	RR2Y	3.4	R	AC	76.8	8.6	2.3	$829.4	75.8	**83.7**	80.3	67.4
Ebberts	2350RR2*	RR2Y	3.5	R	AC	76.7	9.1	1.8	$828.4	74.7	77.3	79.8	74.8
Diener	3822CR2	RR2Y	3.9	R	AC	76.4	9.6	2.2	$825.1	70.3	75.4	81.6	**78.4**
Channel	3701R2	RR2Y	3.7	R	AC	75.8	8.7	1.0	$818.6	69.7	82.2	79.5	71.6
Ebberts	2341RR2*	RR2Y	3.4	R	AC	75.5	9.2	3.3	$815.4	75.8	76.0	79.8	70.3
Beck	XL 362NR^	RR	3.6	R	ES	75.4	10.1	1.0	$814.3	**79.3**	73.7	75.2	73.3
Channel	3502R2	RR2Y	3.5	R	AC	75.2	9.3	2.3	$812.2	**78.7**	75.2	82.6	64.1
Ebberts	2311RR2*	RR2Y	3.1	R	AC	74.7	10.5	1.0	$806.8	75.9	80.2	79.8	62.9
Beck	XL 357NR^	RR	3.5	R	ES	74.6	8.7	4.3	$805.7	**78.9**	72.4	72.0	74.9
Stewart	3677R2	RR2Y	3.6	R	AC	74.5	9.2	1.7	$804.6	71.6	72.9	**84.9**	68.6
Steyer	3402R2*	RR2Y	3.4	R	CM	74.4	8.9	2.0	$803.5	70.5	76.7	80.7	69.7
Diener	3551CR2	RR2Y	3.5	R	AC	73.8	9.9	1.8	$797.0	70.4	76.0	73.0	75.6
LG Seeds	C3616R2	RR2Y	3.6	R	AC	73.7	10.3	1.3	$796.0	71.2	74.7	76.1	72.7
Diener	4001CR2	RR2Y	4.0	R	AC	73.7	8.6	2.3	$796.0	76.6	77.3	71.5	69.2
Channel	3801R2	RR2Y	3.8	R	AC	72.9	8.4	1.0	$787.3	70.4	72.9	76.2	72.2
Stewart	3800R2	RR2Y	3.8	R	AC	72.5	9.0	1.0	$783.0	66.7	78.6	75.0	69.6
Channel	4101R2	RR2Y	4.1	R	AC	72.5	9.9	1.5	$783.0	60.8	82.0	71.8	75.5
Channel	3600R2	RR2Y	3.6	R	AC	72.4	10.0	1.5	$781.9	69.4	70.1	74.2	75.9
Beck	393NR*	RR	3.9	R	ES	72.0	8.5	3.2	$777.6	74.2	66.7	78.1	68.8
Stewart	4309R2	RR2Y	4.3	R	AC	71.1	9.7	2.0	$767.9	69.1	74.0	73.8	67.4
Steyer	3801R2*	RR2Y	3.8	R	CM	70.5	10.0	3.0	$761.4	71.0	72.6	74.3	64.1
Stewart	3200R2	RR2Y	3.2	R	AC	69.9	10.6	1.9	$754.9	70.0	73.0	70.5	65.9
Channel	4000R2	RR2Y	4.0	R	AC	69.4	8.9	1.3	$749.5	61.1	77.3	74.7	64.3
Site Averages =						**73.7**	**9.3**	**2.0**	**$796.1**	**71.8**	**75.6**	**76.5**	**70.9**
LSD (0.10) =						5.5	0.6	n.s.		6.4	7.1	6.6	5.5

Rob Kauffman, FIRST Manager

Stats:
Yield Range: 9.1 to 57.3 bu. per acre
Yield Average: 36.5 bu. per acre
Top $ Per Acre: $630.10

Field Notes: Mid-Atlantic

The addition of LibertyLink soybeans in the trials made it more difficult to keep perfectly clean plots, as herbicides went to a conventional program to be able to spray all replications in a timely fashion.

Planting dates and soil moisture at planting were excellent, except for the Preston, Maryland site, and got soybeans off to a good start. Rainfall after planting was the major yield-limiting factor. All locations at some time went through a prolonged period without precipitation.

Insects were not a problem at any of the locations. Mites and aphids were not observed despite being so hot and dry through the summer. No fungicides were applied due to lack of pressure and anticipation of lower-than-normal yields through the application window. Rainfall timing had much to do with how the beans looked and yielded.

Plots with early-season rain looked good–tall with pods the whole height of the soybean. However, when dry weather hit, most pods had one bean per pod and yields suffered. Plots that experienced early drought were very short and nodes were close together and very close to the ground, which made harvest difficult. Both situations caused yields to be lower than normal.

Christiana – Although this test location was planted and emerged very well, it was rendered useless, as it was not harvested due to extensive, season-long deer foraging.

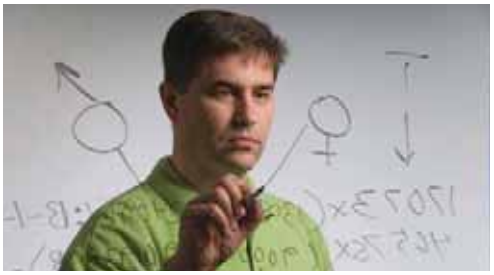
Test Site Description

Site	Soil Texture	Tillage	Spacing	Planting Date	Stand	SCN Pop.
Christiana		no-till	15	5/24		
Hanover	silty clay loam	conventional	15	5/25	192,800	n/a
Mount Joy	silt loam	no-till	15	5/22	198,500	n/a
Preston	sandy loam	no-till	15	6/17	184,000	n/a

3.5 - 4.0 Maturity Group — **Top 24 of 24 tested**

Company	Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Christiana	Hanover	Mount Joy	Preston
Pioneer	93Y80 GC	RR	3.8	R	None	**41.3**	13.0	1.7	$454.3		49.9	**57.3**	16.8
Doeblers	RPM DB3809RR^	RR	3.8	R	CM,O	39.5	15.1	1.3	$434.5		48.2	**54.5**	15.8
Doeblers	RPM DB3909RR^	RR	3.9	R	CM,O	39.2	14.8	2.6	$431.2		46.8	48.2	**22.5**
TA Seeds	TS4299RS	RR,STS	4.2	R	T6,E	38.8	14.3	4.3	$426.8		48.6	46.9	**20.9**
Channel	3701R2	RR2Y	3.7	R	AC	38.7	14.0	2.6	$425.7		49.5	48.9	17.6
NK Brand	S36-B6	RR	3.6	MR	CM,O	38.2	14.2	1.7	$420.2		44.7	52.8	17.2
Channel	3600R2	RR2Y	3.6	R	AC	38.1	14.5	2.6	$419.1		**50.3**	47.8	16.1
Channel	3801R2	RR2Y	3.8	R	AC	38.0	13.9	2.0	$418.0		48.6	49.5	16.0
Dyna-Gro	37RY39	RR2Y	3.9	R	AC	37.9	14.0	3.7	$416.9		46.5	50.7	16.4
TA Seeds	TS3609L*	LL	3.6	MR	T6,E	37.8	14.9	2.6	$415.8		48.5	49.8	15.0
Asgrow	AG3803	RR	3.8	R	None	37.5	13.8	3.1	$412.5		43.7	50.4	18.3
TA Seeds	TS3989RS	RR,STS	3.9	R	T6,E	37.2	14.9	1.0	$409.2		46.6	49.0	15.9
Public	Monocacy	None	4.0	S	None	36.1	15.2	7.0	$397.1		**51.6**	40.9	15.7
Dyna-Gro	38RY35	RR2Y	3.5	R	AC	36.0	13.8	5.4	$396.0		46.1	46.3	15.7
TA Seeds	TS3919L*	LL	3.9	MR	T6,E	35.4	14.4	2.6	$389.4		41.4	48.5	16.2
TA Seeds	TS3619RS*	RR,STS	3.6	MR	T6,E	35.3	13.7	12.3	$388.3		44.8	47.2	14.0
Hubner	H35-10R2	RR2Y	3.5	R	AC	35.1	13.7	2.6	$386.1		41.4	48.4	15.4
Dyna-Gro	32RY40	RR2Y	4.0	R	AC	35.0	14.7	2.0	$385.0		43.8	43.2	18.0
Doeblers	RPM DB3519RR^	RR	3.5	R	CM,O	34.5	14.0	1.3	$379.5		43.1	46.4	13.9
Hubner	H39-01R2	RR2Y	3.9	R	AC	34.5	13.9	3.1	$379.5		44.4	47.4	11.7
Dyna-Gro	39RY41	RR2Y	4.1	R	AC	34.1	14.6	1.7	$375.1		35.7	53.3	13.3
Channel	4000R2	RR2Y	4.0	R	AC	32.9	13.6	4.6	$361.9		45.2	44.4	9.1
Channel	3502R2	RR2Y	3.5	R	AC	32.8	14.5	4.7	$360.8		35.9	48.4	14.1
TA Seeds	TS4819L*	LL	4.8	MR	T6,E	32.0	15.0	2.7	$352.0		41.7	38.3	16.0
Site Averages =						**36.5**	**14.3**	**3.3**	**$401.5**		**45.3**	**48.3**	**15.9**
LSD (0.10) =						4.7	1.0	5.7			4.9	5.2	3.6

Severe Deer Feeding - Not Harvested



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."

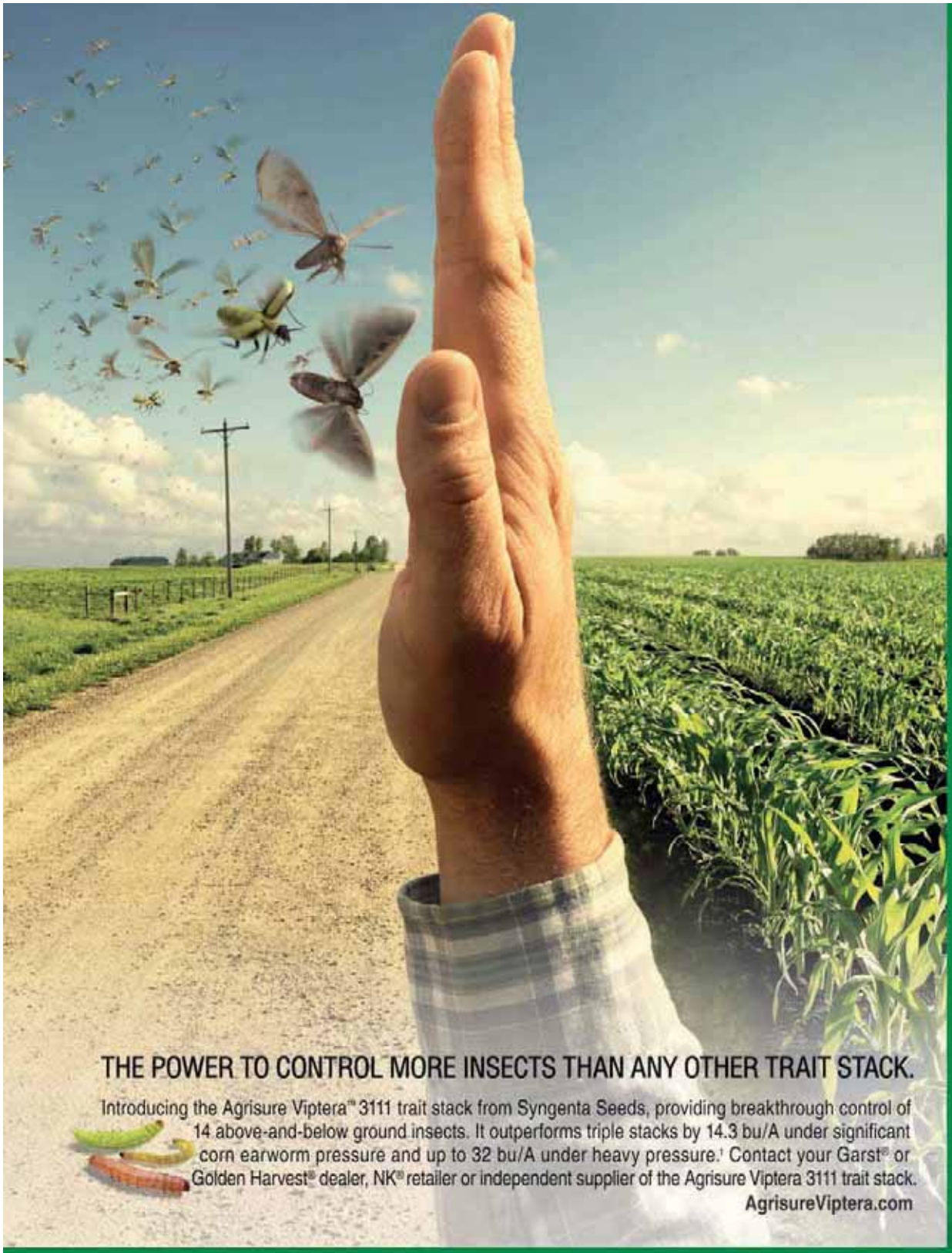
Higher Highs

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.