Special Sponsored Section

Ohio River and Mid-Atlantic Edition

Farmer's Independent Research of Seed Technologies FIRST

Evaluating Corn Hybrids and Soybean Varieties

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

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

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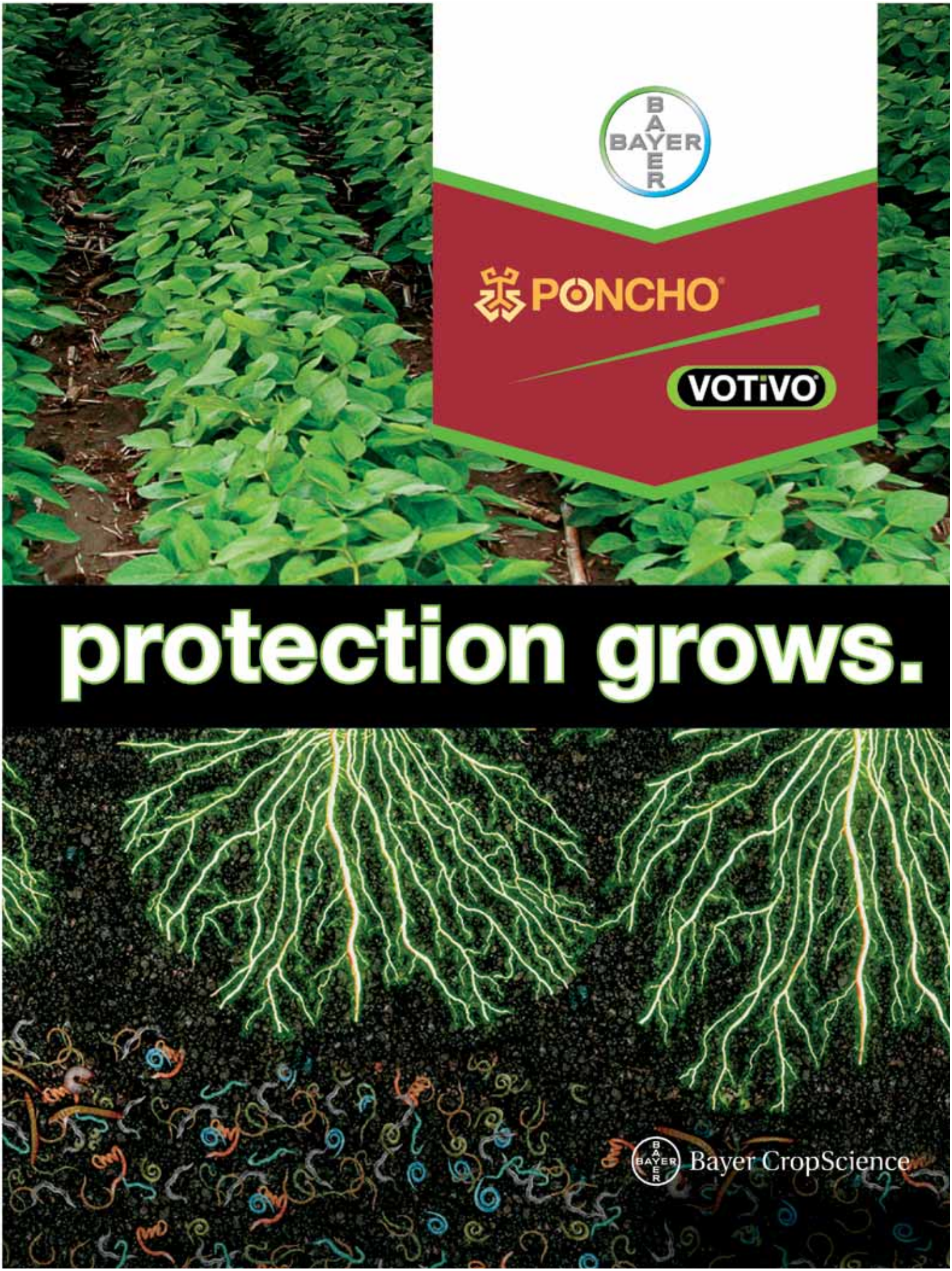
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How to Interpret F.I.R.S.T. Trials

Farmers Independent Research of Seed Technologies (F.I.R.S.T.) is an independent corn and soybean yield testing service. We compare product yield performance in grower fields across 14 states: Delaware, Illinois, Indiana, Iowa, Maryland, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Pennsylvania, South Dakota and Wisconsin. In 2011, we compared yields of 875 corn grain and 473 soybean products. In total, more than 63,900 plots spread across 260 farms were established.

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

Sponsoring seed companies submit their best products to desired test regions. They provide high-quality seed from commercial lots and fees to enter F.I.R.S.T. seed tests. The only exceptions are check products (CK), chosen by F.I.R.S.T. managers to bridge results between early- and full-season tests, and Grower Comparison products (denoted by GC at the end of the product name), provided by our host farmers for their knowledge.

F.I.R.S.T. managers package, randomize, and plant seeds into host grower fields using slightly modified commercial planting equipment. Plot strips are 45' long and 10' wide (four 30" corn rows and soybean rows of either seven 15" single rows, four 30" single rows or four 30" twin rows spaced 8" apart). The center two corn rows and all soybean rows are used to measure yield.

Regions have been established to provide similarity by geography and crop maturity. Corn products within a 10-day maturity range are pooled into a single all-season test or split into early- and full-season tests depending on entry volume. Soybean products must fall within a 0.7 maturity range.

All seed products entered in a region are seeded at each of six corn and four soybean locations within the region. Products are replicated three times per test and grouped in blocks from front to back and side to side. This provides more precision in yield measurement and flexibility should a disruptive event require elimination of nonuniform plot areas.

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

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

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

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

For more details or additional results visit *www.firstseedtests.com.*

Footnotes and Abbreviations:

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

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

Brands identified with * had no commercial seed lot number.

Brand names ending with GC are grower chosen product entries.

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

identifies rejected results omitted from summary

** identifies locations with 2 replications

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

ns – not significant

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

Covering portions of Illinois, Indiana, Ohio, Pennsylvania, Delaware and Maryland

Other editions available at www.firstseedtests.com/printmedia.htm

Contents

Technologies

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

Seed Treatments

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

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

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

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

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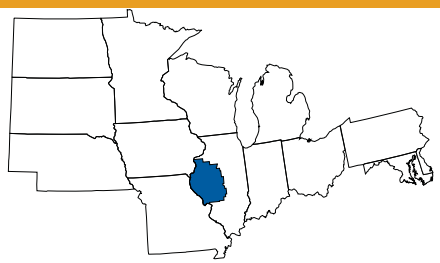
F.I.R.S.T.® Farmer's Independent Research of Seed Technologies

Eric Beyers, FIRST Manager



Corn Stats:
Yield Range: 178.4-226 bu. per acre
Yield Average: 202.0 bu. per acre
Top $ Per Acre: $1,532.80

Corn Field Notes: Illinois West Central

Clayton—Terry Smith, F.I.R.S.T. farmer member for this location, says area yields averaged 60 to 70 bu. per acre. His farm received 17 inches of rain in June alone. After July 10, though, only 0.3 inch came until Labor Day. Many ears only measured 3 to 4 inches long. Data was rejected due to wide yield variation (20 to 100 bu. per acre across reps of a single product) from the weather conditions.

Delavan—Lack of rain in July and August and high heat may have caused some hybrids to produce substandard ear development. Although lodging was minimal, a pinch test in randomly selected hybrids revealed stalk rot and compromised stalk strength. Dave Diekhoff, F.I.R.S.T. farmer member, was happy his second-year corn strip-till fields averaged 187 bu. per acre.

Galva—Al Johnston, Galva's F.I.R.S.T. farmer member is excited to have such tremendous yields. May had good rains, but precipitation afterward was minimal. June was dry and July had just one rainfall of only half an inch. Aug. 10 brought some rain. Plant heights were around 8 to 9 feet. Lodging scores reflect root lodging. Plant leaf and stalk health appeared good. Average yields were 221.2 bu. per acre and 223.2 bu. per acre for the early- and full-season tests, respectively.

Macomb—Jerry Lewis, the F.I.R.S.T. farmer member for Macomb, felt that fungicide treatment contributed to many hybrids having excellent leaf health. Lodging scores predominantly reflect moderately high stalk-rot pressure. Green snapping was noted. Plant heights averaged 10 to 12 feet. Kernel depth and grain quality were excellent; yields were also good. The site averaged 204.3 bu. per acre on the early-season test with a high performer yielding 235 bu. per acre. Full-season results averaged 210.6 bu. per acre with a high performer yielding 234.6 bu. per acre.

Virden—F.I.R.S.T. farmer member Roger Ladage's corn-on-corn acres took a bad hit. Rains in May and June caused flooding and persistently saturated soils in most lower levels. July and August had no rain and high heat. Ear development suffered from the strenuous conditions. Grain quality was average to slightly poor with stalk-rot pressure being high to severe. The early-season test was kept, but the full-season test was rejected because of standing water ponding.

Williamsville—Nick Constant, the F.I.R.S.T farmer member for this location, says area cornfields were yielding 0 to 100 bu. per acre in low-lying areas, where May and June rains either drowned or dwarfed plants. Conversely, rains totaled only 1.5 inches for July and August. Splitting a lodged plant's stalk revealed severe stalk-rot disease in the lower three to four nodes. This moderately well-drained plot averaged yields just above 200 bu. per acre.

Site Information						2011 Rainfall (inches)					
Illinois West Central						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Clayton	silty clay loam	conventional	corn, 2+ yr	160	5/12	4.43	10.33	1.36	0.53	-2.21	-2.89
Delavan	silty clay loam	strip-till	soybean	193	5/6	4.20	4.75	0.43	0.73	-4.78	-4.10
Galva	silty clay loam	strip-till	corn	226	5/10	6.71	4.65	2.00	2.48	-2.56	-1.92
Macomb	silty clay loam	minimum	soybean	175	5/10	4.56	9.08	1.44	0.26	-3.59	-4.42
Virden	silt loam	minimum	corn	200	5/4	3.75	8.13	0.89	0.37	-3.62	-3.66
Williamsville	silt loam	conventional	soybean	160	5/5	3.86	5.64	1.14	0.42	-2.36	-2.70

F.I.R.S.T. Illinois West Central Corn Results

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

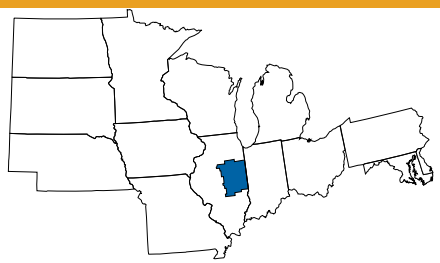
Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Clayton#	Delavan	Galva	Macomb	Virden#	Williamsville
Bo-Jac	9460	3111	C250	110	**213.7**	18.5	1	1,477.20	1	129.5	186.0	**246.9**	**235.0**	177.4	**223.3**
FS Seeds	FS 60TV4	VT3P	C250	110	**210.8**	18.3	4	1,458.20	2	156.0	**223.8**	233.3	**220.1**	166.9	209.8
AgriGold	A6476VT3Pro	VT3P	P500,V	110	**209.8**	20.7	2	1,438.70	3	134.8	181.1	**234.2**	**228.4**	182.5	**222.8**
Channel	210-61VT3	VT3	P500,V	110	207.4	19.7	1	1,427.40	4	145.6	202.1	231.4	**217.7**	175.1	210.9
Steyer	10901	STX	P250	109	205.9	20.1	0	1,415.00	5	123.3	184.5	**237.0**	205.9	**200.6**	201.6
Great Heart	*HT-154-3111VIP**	*3111*	*C250*	110	*205.0*	*21.9*	*2*	*1,399.60*	*12*	*131.7*	***213.4***	*210.9*	*209.8*	*169.1*	***221.9***
Channel	209-77VT3	VT3	P500,V	109	204.7	20.1	1	1,406.80	7	137.5	193.8	230.5	213.4	180.7	205.0
Beck	5442VT3	VT3	P1250,V	110	204.0	19.2	3	1,406.60	8	145.5	201.1	225.0	**215.2**	180.8	197.7
Kruger	K4-9710	STX	P500,V	110	203.5	19.1	2	1,403.60	9	125.0	**210.6**	216.2	202.5	**193.4**	194.8
Great Lakes	5939G3VT3	VT3	P500,V	109	203.4	20.2	1	1,397.40	13	139.6	**208.5**	225.7	**215.4**	158.3	208.9
G2 Genetics	5X-909^*	HXT,RR2	C250	109	203.1	18.9	0	1,401.90	10	124.1	**203.1**	227.1	209.0	164.0	212.3
NuTech	5N-1004*	3000GT	C250	110	203.0	20.0	5	1,395.60	15	113.1	195.0	225.9	212.4	**192.2**	189.3
Stine	9531VT3Pro*	VT3P	C250	107	202.9	17.0	1	1,410.20	6	122.2	**218.4**	220.9	212.9	155.8	206.6
Heritage	4602VT3	VT3	P250	109	201.9	18.4	1	1,396.10	14	132.0	179.7	232.3	207.7	169.1	**220.9**
Dyna-Gro	D51VP40	VT3P	P250	110	200.4	20.0	0	1,377.80	19	133.3	188.6	222.6	205.1	177.4	208.1
Heritage	4636GENVT3P	VT3P	P250	110	200.0	19.6	1	1,377.00	20	122.4	196.4	221.4	210.4	169.1	202.6
Renk	RK818VT3P	VT3P	P250	108	199.9	19.1	0	1,378.80	17	146.5	197.1	224.0	207.4	164.4	206.6
Masters Choice	MCT-6054	3111	P250	110	199.9	19.9	0	1,374.80	21	131.3	182.6	224.9	205.2	174.5	212.4
Dairyland	ST-9210SSX	STX	C250	110	199.6	19.9	3	1,372.70	22	143.3	187.1	232.4	214.5	152.3	211.8
Croplan	6125VT3	VT3	C250	109	199.5	17.9	3	1,382.00	16	117.8	187.1	227.8	211.0	162.0	209.8
Pioneer	P1018HR GC	HX,RR2	C250	110	199.5	18.6	3	1,378.50	18	125.5	177.2	222.1	211.5	162.2	**224.4**
Fielders Choice	NG6788	VT3	P250	111	198.4	19.3	4	1,367.50	23	111.6	182.9	228.9	210.3	166.0	204.1
FS Seeds	FS 58MV4	VT3P	C250	108	196.5	18.7	1	1,357.30	25	126.8	174.4	217.0	208.4	156.9	**225.9**
Great Heart	HT-950VT3P*	VT3P	P250	109	196.5	19.9	2	1,351.40	28	118.1	185.9	230.6	211.0	161.6	193.3
Croplan	5757VT3	VT3	C250	106	196.2	18.0	2	1,358.70	24	127.2	190.6	222.8	203.6	155.5	208.6
AgriGold	A6458VT3	VT3	P500,V	109	196.2	19.2	6	1,352.80	27	122.1	202.5	210.7	196.9	162.5	208.3
Renk	RK795VT3P	VT3P	P250	109	196.1	19.8	1	1,349.20	29	123.9	186.3	232.5	200.7	166.4	194.6
G2 Genetics	5H-1001^	HX,RR2	P1250,V	110	195.9	18.4	2	1,354.60	26	143.3	202.5	219.3	205.0	148.0	204.7
G2 Genetics	5H-0701^	HX,RR2	C250	106	194.0	17.4	0	1,346.40	30	141.6	178.9	214.2	203.1	173.0	200.7
Dyna-Gro	V4993VT3	VT3	P250	108	193.3	17.7	1	1,340.10	31	135.7	**205.7**	210.3	205.1	153.9	191.7
Pioneer	P1184XR CK	HXT,RR2	C250	111	203.6	19.8	1	1,400.80	11	145.9	187.1	227.1	207.8	181.9	214.1
Test Average =					**193.9**	**18.7**	**2**	**1,339.00**		**127.5**	**184.8**	**221.2**	**204.3**	**156.9**	**202.1**
LSD (0.10) =					14.4	1.1	4			28.9	17.9	13.0	10.8	28.8	14.8

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

Great Lakes	6232G3VT3	VT3	P500,V	112	**226.0**	23.7	2	1,532.80	1	141.9	203.9	**242.0**	**226.1**	178.2	**231.8**
Great Lakes	6354G3VT3	VT3	P500,V	113	**224.7**	23.6	0	1,524.60	3	139.8	**221.3**	**243.8**	**230.9**	158.0	202.9
Lewis	1215VT3P	VT3P	P500,V	115	**224.5**	22.4	3	1,530.00	2	123.0	**226.9**	**239.3**	212.4	181.2	219.2
Stone	6404GVT3P	VT3P	P500,V	114	**223.2**	22.8	0	1,518.90	4	158.4	**221.0**	232.5	**226.3**	167.3	212.9
LG Seeds	LG2602VT3	VT3	P500,V	112	**223.2**	23.6	2	1,514.40	5	137.2	208.7	230.2	**225.1**	170.3	228.7
LG Seeds	LG2620VT3	VT3	P500,V	113	**222.9**	23.7	0	1,511.80	7	131.2	210.2	**239.0**	**234.6**	176.7	207.7
AgriGold	A6533VT3	VT3	P500,V	113	**222.3**	24.3	0	1,504.40	9	123.3	219.5	**239.5**	214.5	166.7	215.7
FS Seeds	FS 62MV4	VT3P	C250	112	221.3	22.0	2	1,510.40	8	145.3	**220.0**	227.9	219.1	150.9	218.2
Kruger	K-7514	VT3P	P500,V	114	220.5	20.3	3	1,514.30	6	118.7	200.5	**238.3**	**230.1**	170.8	212.9
Dyna-Gro	CX11113*	VT3P	P250	113	220.1	22.4	0	1,500.00	11	128.4	212.6	237.0	218.0	144.7	212.7
Gateway	9812	VT3	C250	112	220.0	23.4	0	1,493.80	14	**162.0**	217.8	220.5	219.6	171.5	221.9
AgriGold	A6573VT3	VT3	P500,V	113	219.4	24.9	2	1,481.50	18	145.3	208.8	233.2	217.8	156.5	217.9
LG Seeds	LG2636VT3	VT3	P500,V	114	219.3	24.2	1	1,484.70	16	128.2	203.2	229.0	220.0	154.5	224.9
Stone	6324GVT3P	VT3P	P500,V	113	219.1	20.7	3	1,502.50	10	130.6	210.9	**239.1**	224.5	179.3	201.9
Pfister	2574HXTR	HXT,RR2	C250,AV	110	219.0	23.9	3	1,484.30	17	127.4	**220.8**	207.7	219.6	154.7	227.9
Steyer	11406	VT3P	P250	114	218.8	21.6	5	1,495.50	12	**165.1**	208.2	**241.4**	208.2	188.0	217.2
Renk	RK902VT3P	VT3P	P250	113	218.5	22.3	2	1,489.60	15	113.9	200.6	235.0	224.4	146.2	214.0
Heritage	4640GENVT3P	VT3P	P250	111	218.1	21.0	1	1,494.00	13	143.0	**220.4**	222.7	215.7	166.4	213.5
Steyer	11302	VT3P	P250	113	216.6	21.9	1	1,478.80	19	100.7	208.4	223.2	**226.9**	153.2	207.8
Heritage	4662GENVT3P	VT3P	P250	112	216.5	22.1	0	1,477.10	21	127.1	210.0	**243.4**	223.5	158.0	189.0
Wyffels	W7147	VT3P	P250	111	216.4	21.7	13	1,478.60	20	149.3	200.6	234.8	214.2	176.9	215.9
NK Brand	N72F-3000GT	3000GT	C250	113	215.9	23.0	8	1,468.10	27	138.9	204.6	230.5	212.2	169.7	216.2
Dyna-Gro	D52VP20	VT3P	P250	112	215.8	21.6	3	1,475.00	23	111.2	199.5	**245.3**	206.5	132.4	211.7
Channel	214-14VT3P	VT3P	P500,V	114	215.7	21.3	1	1,475.90	22	112.1	201.7	232.3	215.0	170.3	213.9
Renk	RK858VT3P	VT3P	P250	112	215.4	22.3	1	1,468.50	26	115.9	205.8	229.6	**226.5**	163.9	199.8
Croplan	6286VT3PRO	VT3P	C250	112	214.6	21.1	9	1,469.50	25	127.3	215.5	221.2	198.3	138.4	223.5
Kruger	K-7211	VT3P	P500,V	111	214.3	20.3	8	1,471.70	24	150.4	204.7	236.0	216.7	136.9	199.6
Wyffels	W7477	VT3P	P250	112	214.1	22.8	0	1,457.00	28	125.5	**227.3**	216.1	217.5	164.0	195.5
Wyffels	W7997	VT3P	P250	113	212.8	21.7	0	1,454.00	29	115.9	212.0	212.1	211.0	167.8	216.1
Channel	212-08VT3P	VT3P	P500,V	112	212.1	20.8	1	1,453.90	30	152.1	186.8	229.5	214.6	156.6	217.3
Pioneer	P1184XR CK	HXT,RR2	C250	111	200.0	21.5	0	1,367.50	71	126.8	187.1	225.2	205.2	176.9	182.3
Test Average =					**210.0**	**22.6**	**2**	**1,429.80**		**128.3**	**200.6**	**223.2**	**210.6**	**159.3**	**205.4**
LSD (0.10) =					11.7	1.0	6			33.4	19.3	14.2	14.2	36.5	23.6

= rejected results, not included in summary, Virden - only full season test

Eric Beyers, FIRST Manager



Corn Stats:
Yield Range: 147.2-194.3 bu. per acre
Yield Average: 172.3 bu. per acre
Top $ Per Acre: $1,150.30

Corn Field Notes: Illinois East Central

Bethany—Due to a nasty July 26 thunderstorm that wreaked havoc with high winds and 2.5 to 3 inches of rain, Mike Bland, F.I.R.S.T. farmer member, averaged only 136.8 bu. per acre in the early-season test and 143.6 bu. per acre on the full-season test. Some hybrids were completely flattened and harvest was accomplished by going in only one direction. Plant heights were between 10 and 12 feet.

Forsyth—Jim Cullison, F.I.R.S.T. farmer member, and I enjoyed seeing rep-by-rep hybrid-performance comparisons on this site. We were amazed at how some hybrids embraced the drought and high heat with good yields while others did not. Ear development was variable and the lodging scores reflect a high stalk-rot disease pressure. Plant heights were 10 to 12 feet.

Rossville—Here, the corn plants showed incredible stalk strength, considering the total rainfall was only about a half-inch for all of July and August. Numerous times the corn head jammed from the wet, green stalks. Plants were 10 to 12 feet tall and some hybrids showed poor ear development. Total averages were 179.9 bu. per acre in the early-season test and 194.1 bu. per acre in the full-season test.

Towanda—This plot was very pleasing to Judson Stover, F.I.R.S.T. farmer member, for Towanda. One of his fields averaged 215 bu. per acre and he was quite happy with these good yields. Plant heights were between 9 and 10 feet. Ear development and kernel quality were very good. The lodging score reflects some minor root lodging in some of the hybrids, yet overall the site was standing very well.

Tuscola—The Tuscola site suffered from a lack of water. John Carmack, F.I.R.S.T. farmer member, commented on how his fields missed the July and August rains and how the high heat played a role in poor ear development. Because of the heat, the summer nighttime temperatures did not drop enough to allow relief for the corn. Carmack harvested ears ranging from 3 to 5 inches long. Both stalk and root diseases reflect the lodging scores. Plants were only 8 to 9 feet tall.

Watseka—This plot showed nice ear development and good grain quality with 9- to 10-foot plant heights. Linden Wessels, F.I.R.S.T. farmer member for this location noted how his sandy soils stayed sealed, unlike some black, silt-like clays that will crack during a drought period. He felt that this contributed toward better yields this season. (Yields averaged 192.6 bu. per acre in the early-season test and 195.5 bu. per acre for the full-season test.) Gray leaf spot disease was evident with a moderate level of pressure.

Photo courtesy of Eric Beyers

Lodging at the Bethany location was especially bad this year due to high winds.

Site Information						2011 Rainfall (inches)					
Illinois East Central						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Bethany	silt loam	strip-till	corn, 2+ yr	205	5/18	2.99	5.16	1.44	0.54	-3.20	-3.85
Forsyth	silty clay loam	conventional	soybean	194	5/13	5.60	5.45	0.50	0.82	-4.14	-3.57
Rossville	silty clay loam	conventional	soybean	228	5/20	3.09	4.95	2.48	2.60	-2.32	-1.27
Towanda	silty clay loam	strip-till	soybean	200	5/9	4.51	4.87	2.29	1.59	-4.71	-2.37
Tuscola	silty clay loam	no-till	soybean	139	5/19	3.63	6.74	1.74	1.69	-2.74	-2.48
Watseka	sandy loam	conventional	corn, 2+ yr	219	5/20	5.96	6.12	1.70	2.28	-3.71	-2.01

F.I.R.S.T. Illinois East Central Corn Results

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

Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Bethany	Forsyth	Rossville	Towanda	Tuscola	Watseka
Great Heart	HT-950VT3P*	VT3P	P250	109	**184.1**	16.6	13	1,097.20	1	**167.2**	169.1	190.8	**218.7**	**155.2**	203.3
Beck	5442VT3	VT3	P1250,V	110	**182.3**	17.6	12	1,082.00	2	139.1	163.9	**210.3**	**225.5**	147.3	207.9
Phoenix	5552A4^*	3111	P1250,V	110	**181.9**	18.2	7	1,076.80	5	149.7	**191.3**	193.5	215.3	149.0	192.5
Great Heart	HT-120VT3P*	VT3P	P250	110	**181.8**	18.0	10	1,077.20	4	143.1	171.9	185.4	**235.3**	148.9	206.1
Channel	209-77VT3	VT3	P500,V	109	181.1	16.9	9	1,078.00	3	150.4	174.3	194.8	202.9	**155.0**	209.2
Heritage	4602VT3	VT3	P250	109	180.5	16.9	11	1,074.40	6	154.0	185.0	180.6	213.0	**158.2**	192.4
LG Seeds	LG2555VT3	VT3	P500,V	110	179.2	17.8	26	1,062.70	8	95.8	**203.9**	**202.3**	216.6	**161.9**	194.5
Great Heart	HT-110SS*	STX	P250	110	179.1	17.3	17	1,064.30	7	135.1	173.3	194.6	**219.5**	151.3	200.5
Mycogen	*2V702*	*HXT,RR2*	*C250*	112	*178.8*	*18.8*	*11*	*1,055.80*	*14*	*132.7*	*186.7*	*182.0*	***223.2***	*144.2*	*203.7*
Pioneer	P1018HR GC	HX,RR2	C250	110	178.5	17.3	21	1,060.70	10	90.7	187.1	192.6	210.3	**157.5**	**232.8**
Sun Prairie	SP-X2689	VT3P	P250	110	178.2	16.5	9	1,062.50	9	145.2	184.4	172.4	217.5	152.4	197.4
Heritage	4636GENVT3P	VT3P	P250	110	178.1	17.3	7	1,058.40	12	**159.6**	178.4	187.1	208.9	148.7	185.9
Kruger	K4-9710	STX	P500,V	110	177.9	17.8	3	1,054.90	15	153.4	156.7	190.6	208.1	154.3	204.4
Wyffels	W6871	VT3	P250	110	177.7	17.7	16	1,054.20	17	128.9	186.6	179.7	**226.5**	147.2	197.4
Stone	5913VT3	VT3	P500,V	109	177.6	16.8	7	1,057.60	13	154.4	170.6	182.1	214.0	151.4	193.1
G2 Genetics	5F-1201^	HXT,RR2	P1250,V	112	177.6	17.9	19	1,052.70	18	129.8	182.3	**197.4**	190.1	149.2	**216.6**
G2 Genetics	5H-0701^	HX,RR2	C250	106	177.3	15.9	7	1,059.80	11	159.4	190.1	185.0	183.7	154.3	191.1
AgriGold	A6458VT3	VT3	P500,V	109	176.9	16.6	12	1,054.30	16	151.0	**198.4**	169.6	206.2	138.3	198.1
Steyer	10901	STX	P250	109	176.6	16.9	16	1,051.20	19	143.6	176.3	186.4	212.5	144.3	196.7
Fielders Choice	NG6788	VT3	P250	111	176.5	18.2	6	1,044.90	22	**165.8**	157.5	179.4	200.3	152.8	203.0
Channel	210-61VT3	VT3	P500,V	110	176.4	17.4	12	1,047.80	20	135.4	167.0	192.4	212.0	154.3	197.0
AgriGold	A6476VT3Pro	VT3P	P500,V	110	176.1	17.0	20	1,047.80	21	146.2	178.3	175.2	205.4	**160.1**	191.5
Heritage	8610GENSS	STX	P250	109	175.3	17.9	7	1,039.10	25	140.4	172.2	186.0	206.4	147.2	199.8
Garst	85E98-3000GT	3000GT	C250	109	175.0	16.8	11	1,042.10	23	129.2	173.3	184.0	210.8	150.9	202.0
Croplan	6125VT3	VT3	C250	109	174.5	16.2	14	1,041.80	24	155.3	185.0	172.0	212.7	141.6	180.1
LG Seeds	LG2549VT3	VT3	P500,V	109	174.4	16.8	10	1,038.60	27	148.6	178.8	180.4	216.1	147.3	175.2
Renk	RK795VT3P	VT3P	P250	109	174.1	17.7	1	1,032.80	31	144.7	154.2	190.2	209.0	149.3	197.2
FS Seeds	FS 60TV4	VT3P	C250	110	173.7	16.4	10	1,036.10	29	124.9	170.3	187.5	209.9	146.7	202.9
Kruger	K-7907	VT3P	P500,V	107	173.5	15.5	8	1,038.80	26	159.4	169.0	170.1	205.6	144.3	192.6
Bo-Jac	9460	3111	C250	110	173.4	16.6	16	1,033.50	30	141.6	175.6	173.9	203.2	137.5	208.3
Pioneer	P1184XR CK	HXT,RR2	C250	111	174.9	17.6	5	1,038.00	28	154.2	164.8	181.5	207.0	144.0	197.8
Test Average =					**170.8**	**16.8**	**12**	**1,017.00**		**138.6**	**168.0**	**179.9**	**205.4**	**140.5**	**192.6**
LSD (0.10) =					11.0	0.7	12			20.9	22.2	16.1	13.0	14.0	21.3

FULL SEASON TEST 111 - 114 Day CRM — Top 30 of 90 tested

Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Bethany	Forsyth	Rossville	Towanda	Tuscola	Watseka
Great Lakes	6354G3VT3	VT3	P500,V	113	**194.3**	18.2	12	1,150.30	1	161.7	**193.9**	211.6	**226.9**	**146.8**	**224.8**
Renk	RK858VT3P	VT3P	P250	112	**187.2**	17.7	6	1,110.60	2	162.6	186.7	198.3	218.0	142.6	**214.9**
Channel	212-08VT3P	VT3P	P500,V	112	**186.8**	17.3	6	1,110.10	3	**180.0**	**192.6**	189.6	223.4	129.0	206.1
LG Seeds	LG2620VT3	VT3	P500,V	113	**186.4**	18.3	13	1,103.00	4	145.9	**200.2**	210.6	215.1	141.9	204.7
Great Heart	HT-167VT3P*	VT3P	P250	111	**185.8**	17.8	12	1,101.80	5	**165.8**	182.6	204.9	221.5	134.1	205.8
FS Seeds	FS 62MV4	VT3P	C250	112	**184.5**	18.1	7	1,092.70	6	**167.6**	185.0	199.7	220.1	143.2	191.1
Stone	6404GVT3P	VT3P	P500,V	114	183.8	18.1	4	1,088.60	7	162.5	**195.0**	183.4	**232.5**	142.5	186.9
Dairyland	ST-9111SSX	STX	C250	111	183.3	19.1	9	1,081.00	12	**173.7**	184.5	200.3	216.7	141.5	182.8
Golden Harvest	H-9138 3000GT	3000GT	C250	113	183.1	19.0	4	1,080.30	13	152.6	188.5	197.0	216.3	138.2	205.7
AgriGold	A6533VT3	VT3	P500,V	113	183.0	18.6	12	1,081.50	11	161.0	178.6	200.5	221.9	140.1	195.6
Dyna-Gro	CX11113*	VT3P	P250	113	182.7	17.8	13	1,083.40	9	149.6	177.8	212.5	206.8	137.3	212.0
Pfister	2574HXTR	HXT,RR2	C250,AV	110	182.6	18.4	8	1,080.10	14	162.2	187.7	195.2	220.2	136.4	193.6
Wyffels	W7147	VT3P	P250	111	182.5	17.3	28	1,084.50	8	143.4	190.9	206.6	216.0	132.9	205.4
Wyffels	W7997	VT3P	P250	113	182.0	17.0	9	1,082.90	10	156.8	160.8	199.1	220.1	139.7	**215.7**
Channel	212-17VT3P	VT3P	P500,V	112	181.6	17.2	5	1,079.60	15	161.7	173.9	203.9	212.5	135.9	201.6
Stone	6324GVT3P	VT3P	P500,V	113	181.0	17.2	6	1,076.00	16	156.1	185.0	192.4	212.1	136.2	204.4
FS Seeds	FS 61BX1	STX	C250	111	180.9	17.1	15	1,075.90	17	**164.7**	178.4	208.3	210.6	122.3	201.1
LG Seeds	LG2602VT3	VT3	P500,V	112	180.9	18.3	19	1,070.50	18	136.7	186.5	211.9	209.9	134.2	206.3
Great Lakes	6455G3VT3	VT3	P500,V	114	180.2	18.5	20	1,065.40	19	133.1	183.2	204.5	216.4	135.8	208.4
Heritage	4640GENVT3P	VT3P	P250	111	178.7	16.9	3	1,063.70	20	149.5	171.1	207.9	204.7	132.5	206.4
Great Heart	HT-200VT3P*	VT3P	P250	112	178.6	17.7	13	1,059.50	22	120.2	183.6	203.9	214.2	133.2	**216.2**
Mycogen	2D744	STX	C250,AV	111	178.5	17.3	7	1,060.70	21	162.3	175.3	205.2	208.3	119.3	200.8
Steyer	11406	VT3P	P250	114	178.2	17.5	19	1,058.10	23	156.7	171.5	196.7	**227.3**	117.8	199.1
Sun Prairie	SP-X2867	VT3P	P250	113	177.7	18.0	7	1,052.90	24	151.8	164.1	192.1	208.0	143.2	206.9
FS Seeds	FS 64JV3	VT3	C250	114	177.5	18.0	22	1,051.70	26	152.4	178.8	196.8	193.3	117.9	**225.5**
Merschman	M-1211K-15*	VT3P	P250	111	177.5	18.1	11	1,051.20	27	147.3	173.0	183.1	221.3	122.0	**218.2**
Wyffels	W7477	VT3P	P250	112	177.1	18.0	8	1,049.30	29	153.1	174.4	183.9	216.7	135.4	198.9
Steyer	11302	VT3P	P250	113	176.9	17.3	17	1,051.20	28	154.1	156.3	202.0	207.6	136.4	204.8
Kruger	K-7211	VT3P	P500,V	111	176.7	16.9	18	1,051.80	25	102.6	**192.1**	211.8	**225.5**	132.3	195.8
Kruger	K-7514	VT3P	P500,V	114	176.1	16.8	7	1,048.70	30	149.9	183.9	197.6	212.6	119.7	192.8
Pioneer	P1184XR CK	HXT,RR2	C250	111	164.1	18.0	3	972.30	82	148.8	157.1	168.8	195.5	123.2	191.4
Test Average =					**173.7**	**18.0**	**12**	**1,029.20**		**143.6**	**171.4**	**194.1**	**209.6**	**127.9**	**195.5**
LSD (0.10) =					10.4	0.9	12			19.4	19.6	18.5	14.1	15.4	18.0

PONCHO®/VOTiVO®
CORN AND SOYBEAN Q&A

WHAT IS PONCHO/VOTiVO SEED TREATMENT?

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

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

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

HOW DOES PONCHO/VOTiVO PROTECT PLANTS AGAINST NEMATODES?

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

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

ARE NEMATODES A PROBLEM IN CORN?

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

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

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

DOES PONCHO/VOTiVO PROVIDE ANY DISEASE PROTECTION?

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

WHAT YIELD BENEFITS DOES PONCHO/VOTiVO PROVIDE?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

HOW LONG DOES THE PROTECTION LAST?

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

IS PONCHO/VOTiVO COMPATIBLE WITH SEED-APPLIED INOCULANTS?

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

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

CRP0311PONVOT0012-R00

Bayer CropScience

Eric Beyers, FIRST Manager

Corn Stats:
Yield Range: 115.9-160.2 bu. per acre
Yield Average: 139.7 bu. per acre
Top $ Per Acre: $1,037.30

Corn Field Notes: Illinois South

Belleville—Yields averaging 173.1 bu. per acre in the early-season test and 170 bu. per acre in the full-season test were higher than elsewhere on F.I.R.S.T. farmer member John Barttlebort's farm, where 130 to 150 bu. per acre is common this year. A July windstorm caused root lodging in numerous hybrids and green snap in others. August was dryer and hotter than usual. Ear development suffered from heat and lack of adequate irrigation. Some hybrids' grains were moldy and poor quality. Heights were 10 to 12 feet.

Du Quoin—Hybrid around the plot averaged 100 to 130 bu. per acre. Matt Polczynski's corn appeared normal, with heights between 9 and 12 feet. All were standing nicely with well-pollinated ears 5 to 7 inches long. So, why the lower yields? Small kernels. Perhaps the lack of nighttime relief from August heat limited fill. Yields averaged 146.2 bu. per acre in the early-season test and dropped to 140.2 bu. per acre in the full-season test. Lodging was almost nonexistent at 0.1 percent.

Flora— Planting took place on May 21, the earliest location to be sown in this region. Wet conditions after planting, plus 15 inches of rain in June, reduced plants across flatter fields within the area, including a small area of F.I.R.S.T. farmer member Kent Warren's trial plot.

After June, rainfall was limited. Some hybrids' seed set suffered from the dry, hot July and August. Heights were 9 to 11 feet. The early test lost one replication to poor stand establishment. Full-season results were rejected due to variability from water ponding.

Salem—A storm around Aug. 2 produced over 2 inches of rain and heavy wind, causing green snap in some hybrids, almost entirely reducing stands. Some hybrids had prominent root lodging. Plant heights were roughly 10 feet. Most ear development, kernel set and grain quality were good.

Shumway—The plot's yields were poorer than most of F.I.R.S.T. farmer member David Soltwedel's fields. June rains limited post herbicide application, so the crop contended with early weed pressures. Ear development was poor in some hybrids, good in others. Plant heights were 8 to 10 feet. Stalk and root integrity were good. Average yields were 103.2 bu. per acre and 132.9 bu. per acre on the early-season and full-season test, respectively.

Vandalia—After a June 2 planting date this location received 19 inches of rain in June alone. However, emergence was uniform. A thunderstorm after pollination caused abundant green snap in some hybrids, causing yield variability. Lodging scores mainly reflect green snap; stalk lodging was also present.

Yield differences reflect soil change and the full test's slight elevation advantage. Seed set was good; quality, poor. Plant heights were 7 to 10 feet.

Site Information						2011 Rainfall (inches)					
Illinois South						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Belleville	silt loam	conventional	soybean	160	6/3	3.51	7.55	2.23	1.28	-2.16	-2.65
Du Quoin	clay loam	no-till	soybean	223	6/1	5.97	8.27	5.77	0.87	0.54	-3.34
Flora	silty clay loam	minimum	soybean	167	5/21	4.28	7.57	5.54	0.56	0.75	-3.62
Salem	silty clay loam	conventional	soybean	186	6/2	1.97	9.58	3.65	0.75	-1.48	-2.82
Shumway	silt loam	conventional	soybean	206	5/23	4.98	5.88	3.68	1.16	-0.18	-2.57
Vandalia	silty clay loam	conventional	corn	158	6/2	3.73	12.77	5.10	1.12	1.24	-2.61

F.I.R.S.T. Illinois South Corn Results

EARLY SEASON TEST 107 - 112 Day CRM — Top 30 of 60 tested

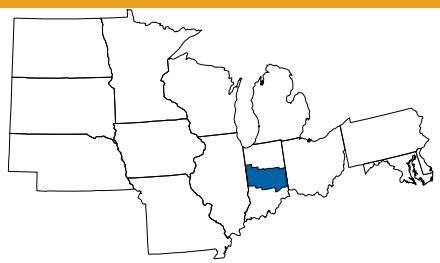
Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Belleville	Du Quoin	Flora‡	Salem	Shumway	Vandalia
Pfister	2674HXTR	HXT,RR2	C250,AV	111	**150.1**	14.8	5	975.70	1	186.5	147.5	146.7	**150.2**	**133.4**	136.5
Stine	9729VT3Pro*	VT3P	C250	110	144.8	14.7	3	941.20	2	**201.2**	149.0	159.1	140.3	113.4	106.0
Channel	212-08VT3P	VT3P	P500,V	112	144.7	14.7	0	940.60	3	173.3	**159.5**	149.1	137.2	**121.3**	127.7
Kruger	K4-9710	STX	P500,V	110	144.5	14.9	0	939.30	4	177.3	149.7	142.9	**153.7**	105.1	138.4
Kruger	K-4207	VT2P	P500,V	107	144.2	14.4	1	937.30	5	168.2	140.9	157.9	136.3	115.0	**147.0**
Channel	212-75VT3P	VT3P	P500,V	112	143.1	15.0	1	930.20	6	184.5	156.1	148.8	139.7	107.2	122.2
Wyffels	W7477	VT3P	P250	112	142.8	15.0	0	928.20	7	172.4	152.7	143.1	139.8	**128.3**	120.2
Pioneer	P1018HR GC	HX,RR2	C250	110	142.0	15.2	6	922.30	8	176.2	155.6	135.3	134.0	**124.9**	125.9
Croplan	6125VT3	VT3	C250	109	141.2	14.6	1	917.80	9	164.1	153.9	149.5	140.5	105.7	133.5
Augusta	A5560VT3	VT3	P250	110	141.2	14.7	4	917.80	10	**202.9**	153.6	135.1	129.4	106.5	119.8
FS Seeds	FS 62MV4	VT3P	C250	112	141.1	15.1	4	916.80	11	175.1	154.8	157.1	124.7	111.3	123.5
Wyffels	W7147	VT3P	P250	111	140.8	15.0	12	915.20	12	179.4	**170.1**	140.2	134.3	97.9	123.1
Dairyland	ST-9111SSX	STX	C250	111	140.8	15.2	2	914.50	13	184.8	158.7	148.9	128.9	111.7	111.7
Great Lakes	6232G3VT3	VT3	P500,V	112	139.4	14.9	11	906.10	14	178.6	147.8	133.8	125.6	113.3	137.4
Steyer	11204	VT3P	P250	112	138.7	14.7	3	901.60	15	166.4	**160.9**	162.1	109.1	115.7	118.2
Golden Harvest	H-8969 3111	3111	C250	111	138.5	14.8	2	900.30	16	186.3	153.1	139.9	126.2	107.8	117.5
Lewis	1110VT2P	VT2P	P500,V	110	138.2	14.5	0	898.30	17	179.6	152.2	139.3	135.6	98.7	123.5
G2 Genetics	5H-1001^	HX,RR2	P1250,V	110	138.2	15.4	6	896.90	18	159.3	148.1	150.1	135.4	116.8	119.5
Stone	6012GVT2P	VT2P	P500,V	110	138.1	14.5	2	897.70	19	188.4	142.8	135.9	142.7	106.2	112.7
Pfister	2574HXTR	HXT,RR2	C250,AV	110	138.1	15.1	1	897.30	20	169.4	143.7	143.9	133.3	110.1	128.3
LG Seeds	LG2602VT3	VT3	P500,V	112	137.9	14.8	10	896.40	21	165.0	158.5	150.9	132.7	104.6	115.6
Stine	9731VT3Pro*	VT3P	C250	110	137.8	14.8	4	895.70	22	183.9	148.0	149.9	138.3	111.5	95.3
LG Seeds	LG2555VT3	VT3	P500,V	110	137.8	14.7	21	895.70	23	174.5	**164.2**	138.8	101.8	108.0	139.5
Wyffels	W7213	GT/CB/LL	C250	111	137.3	15.1	4	892.10	24	**199.2**	148.4	127.9	118.6	111.0	118.8
Stone	6022GVT2P	VT2P	P500,V	110	137.0	14.8	0	890.50	25	182.1	156.1	140.8	128.0	93.2	121.6
LG Seeds	LG2549VT3	VT3	P500,V	109	137.0	14.2	2	890.50	26	171.1	149.2	149.4	125.7	110.8	116.0
Stine	9732VT3Pro*	VT3P	C250	112	137.0	15.0	4	890.50	27	163.8	140.3	157.1	141.0	104.4	115.5
Heritage	4640GENVT3P	VT3P	P250	111	136.7	14.5	2	888.60	28	**192.8**	144.6	126.5	134.5	87.2	134.7
AgriGold	A6458VT3	VT3	P500,V	109	136.6	14.3	4	887.90	29	172.5	144.1	136.6	123.9	116.7	125.5
Wyffels	W6871	VT3	P250	110	136.6	14.8	4	887.90	30	190.3	141.8	147.6	118.4	91.8	129.6
Pioneer	P1184XR CK	HXT,RR2	C250	111	129.7	15.4	2	841.80	46	159.5	147.0	140.1	124.0	**120.0**	87.7
Test Average =					**134.6**	**14.8**	**4**	**875.00**		**173.1**	**146.2**	**142.1**	**126.8**	**103.2**	**116.4**
LSD (0.10) =					12.2	0.3	7			17.8	12.8	22.5	22.0	14.5	23.2

FULL SEASON TEST 113 - 116 Day CRM — Top 30 of 72 tested

Kruger	K-7215	VT3P	P500,V	115	160.2	16.0	0	1,037.30	1	**187.2**	149.4	133.2	**153.7**	137.5	173.3
Kruger	K-7516	VT3P	P500,V	116	160.1	15.9	1	1,037.00	2	**191.5**	148.8	170.5	140.6	136.6	**183.1**
Stone	6324GVT3P	VT3P	P500,V	113	158.0	15.4	4	1,025.40	3	**189.7**	155.4	145.8	**153.9**	137.4	153.4
Lewis	1215VT3P	VT3P	P500,V	115	157.4	16.0	1	1,019.20	4	175.2	157.7	167.5	**154.9**	129.7	169.5
LG Seeds	LG2636VT3	VT3	P500,V	114	155.9	16.0	3	1,009.50	5	**196.3**	141.0	151.8	132.3	137.9	172.0
Steyer	11302	VT3P	P250	113	155.2	15.5	0	1,006.90	6	178.3	144.9	154.1	**150.7**	138.2	164.0
Great Heart	HT-333VT3*	VT3	P250	113	154.6	16.5	5	999.10	8	**192.6**	146.9	160.7	146.4	133.2	153.7
Great Lakes	6530G3VT3	VT3	P500,V	115	154.3	15.7	6	1,000.20	7	172.7	138.0	172.2	134.6	149.4	177.0
Golden Harvest	H-9138 3000GT	3000GT	C250	113	154.1	16.4	2	996.30	9	**201.4**	133.3	142.6	136.4	142.7	156.7
Great Lakes	6455G3VT3	VT3	P500,V	114	153.5	15.6	10	995.40	10	**193.1**	135.3	149.0	133.3	118.1	**187.5**
Kruger	K-7514	VT3P	P500,V	114	153.2	15.5	1	993.90	11	178.7	150.5	154.3	131.9	137.9	166.8
Dyna-Gro	CX11113*	VT3P	P250	113	153.0	15.3	1	993.40	12	178.7	144.6	160.6	137.0	131.5	173.0
LG Seeds	LG2620VT3	VT3	P500,V	113	153.0	15.8	15	991.40	13	**190.7**	151.7	137.8	118.6	131.5	172.3
AgriGold	A6573VT3	VT3	P500,V	113	152.9	16.0	7	990.00	14	**188.7**	139.2	136.2	**147.2**	137.6	151.6
Garst	83M47-GT/CB/LL	GT/CB/LL	C250	115	152.5	15.6	9	989.00	15	169.3	133.2	142.2	134.5	136.3	**189.0**
Stone	6404GVT3P	VT3P	P500,V	114	151.5	16.0	0	981.00	16	183.1	141.3	137.5	145.7	114.6	172.7
Channel	214-14VT3P	VT3P	P500,V	114	150.3	15.3	5	975.80	17	179.8	**159.1**	159.3	133.6	142.5	136.7
FS Seeds	FS 66S41	GT/CB/LL	C250	116	149.7	17.4	11	964.10	19	174.0	138.7	143.6	121.7	131.9	**182.1**
Fielders Choice	NG6818	VT3	P250	114	149.4	15.8	0	968.10	18	175.8	146.0	163.5	140.8	140.0	144.2
NK Brand	N74R-3000GT	3000GT	C250	113	149.0	16.3	2	963.70	20	**190.4**	133.9	133.1	**147.4**	140.4	132.7
Channel	213-32VT3	VT3	P500,V	113	148.7	16.0	0	962.80	21	177.3	145.3	148.8	134.5	109.4	176.9
Dairyland	ST-9414Q	HXT,RR2	C250	114	148.3	16.1	4	959.90	23	181.3	131.4	159.8	142.6	133.7	152.4
Croplan	6960VT3PRO	VT3P	C250	114	148.2	15.7	9	960.70	22	**194.6**	154.9	164.8	125.0	139.4	127.1
Kruger	K-7614	VT3P	P500,V	114	147.8	15.9	2	957.40	24	164.6	142.2	166.7	138.9	134.0	159.3
Garst	82K01-3111	3111	C250	116	147.7	17.0	8	952.70	28	180.4	137.8	150.7	123.7	122.1	174.6
G2 Genetics	5H-515^*	HX,RR2	C250	115	147.5	16.2	2	954.30	26	156.9	128.8	141.9	128.5	**151.9**	171.4
Steyer	11406	VT3P	P250	114	147.3	15.6	5	955.20	25	175.4	155.8	157.6	122.5	131.2	151.8
Steyer	11501	VT3P	P250	115	147.2	15.9	10	953.50	27	179.2	139.9	**174.1**	119.2	135.1	162.7
Beck	XL 6626HXR^*	HXT,RR2	P1250,V	114	147.2	16.7	2	950.50	30	138.2	142.3	131.5	139.8	137.4	178.2
NK Brand	N72F-3000GT	3000GT	C250	113	146.9	16.1	15	950.80	29	161.5	141.3	139.2	133.2	149.8	148.9
Pioneer	P1184XR CK	HXT,RR2	C250	111	146.8	16.0	2	950.50	31	168.6	138.5	131.2	126.8	136.4	163.9
Test Average =					**144.7**	**16.1**	**6**	**936.30**		**170.0**	**140.2**	**149.2**	**127.3**	**132.9**	**153.0**
LSD (0.10) =					16.4	0.6	11			16.9	17.6	23.2	19.5	17.7	26.6

‡ = 2 replications early test, rejected full season test - not included in summary

Rich Schleuning, FIRST Manager



Corn Stats:
Yield Range: 193.9-240.3 bu. per acre
Yield Average: 214.5 bu. per acre
Top $ Per Acre: $1,490.10

Corn Field Notes: Indiana Central

Greensburg—We had a tough year. Wet conditions and late calendar date prompted us to plant on May 20 into wet soils, resulting in soil compaction, poor seed furrow closure and sidewall compaction. The hot, dry summer caused barren stalks and small ears 4 to 10 inches long with six to 12 kernels around. Rainfall was 6.8 inches in May, 5.9 in June, 0.6 in July and 2.1 in August. Saturated early-spring soils caused poor stands, creating variable yields in the early test. These unreliable yields were rejected. In the full test, one replication with similar issues was removed, allowing us to salvage quality results.

Otterbein—This was the earliest planted site in the region by more than a week. Later, in a seven-week stretch, we received a half-inch of rain. Overall we ended up with nearly 6 inches less rainfall than the 30-year average for July and August. Ear size varied widely. Plants were standing nicely but a stalk-pinch test showed presence of stalk rot. There was light diplodia on some ear tips. Steve noted a swing in yields, which averaged 202 bu. per acre and 222.1 bu. per acre for the early-season and full-season tests, respectively.

Perrysville—Yields were surprising. July and August each received only 0.8 inch of rain. Plants were as tall as the combine, with little difference between products. Stalk quality was good, considering plants put their limited energy into making ears. Little disease was present but ear mold or rot was observed. Yields averaged 233.1 bu. per acre on the early-season test and 246.9 bu. per acre on the full-season test.

Spiceland—Planting conditions were ideal once we finally got into the field on June 1. We saw excellent emergence and final stand. Ear shanks were weak, with some dropped ears. The late planting was fortunate; pollination started after the extreme heat and dry weather. Stalk quality was good but had root lodging. Ear-tip dieback was 1 inch on some hybrids.

Windfall—Over 5 inches of rain in May and 6 in June caused water ponding and drown out of numerous strips, causing loss of one repetition in the full-season test. Later, this field set a record for most days without rain and days above 90 degrees. Yield was surprising, averaging over 200 bu. per acre. Plants were short, with root lodging, and grain quality was fair.

Wingate—We saw nice yields considering the season. Average yields were 219.3 bu. per acre in the early-season test and 238.7 bu. per acre in the full-season test. Last year this location yielded just short of 300 bu. per acre. At harvest, corn was standing excellently with light lodging. Plants were fully intact with heights exceeding 12 feet. Grain quality was excellent with good kernel depth and a hard cob, making for a nice harvest.

Site Information						2011 Rainfall (inches)					
Indiana Central						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Greensburg	clay loam	conventional	corn, 2+ yr	185	5/20	6.83	5.93	0.64	2.12	-4.38	-2.65
Otterbein	silt loam	minimum	soybean	222	5/10	5.49	7.38	2.03	7.19	-2.78	3.03
Perrysville	silty clay loam	no-till	soybean	132	5/19	5.20	5.53	3.18	3.32	-1.62	-0.55
Spiceland	silt loam	no-till	soybean	170	6/1	7.98	2.96	2.88	2.01	-1.69	-1.73
Windfall	silty clay loam	conventional	corn	201	5/23	5.10	6.77	1.16	3.16	-4.68	-2.29
Wingate	silty clay loam	minimum	soybean	190	5/18	6.97	5.76	2.52	2.68	-2.29	-1.48

F.I.R.S.T. Indiana Central Corn Results

EARLY SEASON TEST 105 - 110 Day CRM — Top 30 of 42 tested

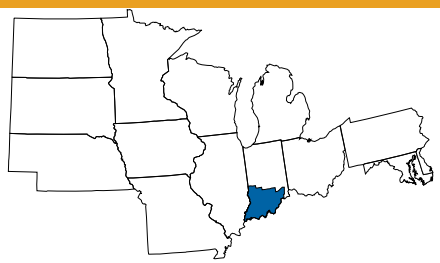
Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Greensburg#‡	Otterbein	Perrysville	Spiceland	Windfall‡	Wingate
Ebberts	7501VT3P	VT3P	P250	109	**240.3**	18.3	0	1,490.10	1	129.9	216.4	**270.7**	237.2	**240.4**	**236.7**
Ebberts	2909VT3P	VT3P	P250	109	229.7	17.8	1	1,427.80	2	98.1	221.6	250.9	**238.6**	222.1	215.1
AgriGold	A6436VT3Pro	VT3P	P500,V	109	229.7	18.0	1	1,426.40	3	56.6	215.0	239.6	231.3	**246.1**	216.5
NuTech	5B-1003*	GT/CB/LL	C250	110	227.6	19.0	1	1,406.60	5	101.1	**232.7**	250.7	234.9	203.8	216.0
Heritage	4602VT3	VT3	P250	109	226.6	17.7	0	1,409.20	4	110.9	205.7	247.5	216.6	**241.7**	221.7
G2 Genetics	5H-0701^	HX,RR2	C250	106	224.0	17.1	0	1,397.10	6	117.7	206.1	235.3	**248.5**	199.2	230.9
LG Seeds	LG2555VT3	VT3	P500,V	110	223.9	18.0	4	1,390.40	8	117.4	196.3	**265.5**	200.4	222.7	234.5
Steyer	10901	STX	P250	109	223.5	17.6	0	1,390.60	7	105.7	192.7	247.9	216.6	228.3	232.1
Stewart	*7V776*	*VT3P*	*P500,V*	*110*	*223.2*	*20.2*	*0*	*1,371.30*	*12*	*122.1*	*214.8*	*241.8*	***240.5***	*207.8*	*211.3*
Specialty	8610GENSS	STX	P250	109	221.6	18.3	0	1,374.10	10	100.2	187.5	240.1	230.1	224.6	225.8
Heritage	4636GENVT3P	VT3P	P250	110	221.2	18.8	0	1,368.30	14	127.4	223.7	246.8	221.8	210.7	203.1
Steyer	1097	3000GT	C250	109	220.8	17.9	4	1,371.80	11	100.6	194.8	249.2	206.2	209.2	**244.5**
Heritage	8610GENSS	STX	P250	109	220.7	18.4	0	1,367.90	15	87.1	192.5	232.7	**238.1**	219.2	221.1
Stewart	6V556	VT3P	P500,V	106	220.3	16.3	1	1,379.30	9	113.8	204.8	222.5	231.8	210.8	231.8
NuTech	5N-1004*	3000GT	C250	110	220.1	17.6	1	1,369.50	13	87.8	223.2	224.2	226.4	187.6	**239.2**
G2 Genetics	5H-1001^	HX,RR2	P1250,V	110	220.1	18.0	2	1,366.80	16	93.1	220.9	**254.7**	215.6	197.0	212.3
Great Lakes	5939G3VT3	VT3	P500,V	109	219.7	18.0	2	1,364.30	17	107.6	197.0	229.3	227.0	219.4	226.0
Specialty	4636GENVT3P	VT3P	P250	110	219.1	18.6	0	1,356.70	20	116.6	208.3	242.4	230.0	209.1	205.5
LG Seeds	LG2549VT3	VT3	P500,V	109	218.7	17.5	1	1,361.40	18	101.7	193.7	230.0	207.4	227.9	234.4
Steyer	10903	VT3P	P250	109	218.3	18.5	0	1,352.40	22	75.3	**243.6**	216.8	229.2	191.0	210.8
AgriGold	A6458VT3	VT3	P500,V	109	218.2	17.3	0	1,359.60	19	79.4	203.4	242.0	219.4	202.8	223.5
NK Brand	N63R-3000GT	3000GT	C250	109	218.0	18.2	2	1,352.50	21	78.7	211.6	228.2	216.4	207.2	226.5
Ebberts	7358VT3P*	VT3P	P250	108	217.0	17.6	0	1,350.20	23	102.0	197.6	246.0	225.4	194.2	221.8
Specialty	4602VT3	VT3	P250	109	216.4	18.0	0	1,343.80	24	123.0	209.5	231.5	217.9	201.0	222.1
Stine	9731VT3Pro*	VT3P	C250	110	215.5	18.5	1	1,335.00	27	71.8	205.7	231.2	233.0	173.9	233.8
Seed Consultants	SCS 11HR02^	HX,RR2	P1250,V	110	214.7	18.1	1	1,332.60	28	116.3	218.7	233.8	210.6	205.0	205.5
Seed Consultants	SCS 10HR62^	HX,RR2	P1250,V	106	213.6	16.5	0	1,336.10	26	130.3	187.1	241.4	205.7	201.5	232.2
G2 Genetics	5X-909^*	HXT,RR2	C250	109	212.9	18.0	0	1,322.10	30	68.4	187.6	228.7	221.8	203.6	222.7
G2 Genetics	5X-908^*	HXT,RR2	C250	108	212.4	18.2	1	1,317.70	31	87.5	196.7	243.8	201.9	208.5	211.3
AgriGold	A6384VT3Pro	VT3P	P500,V	106	212.2	16.1	0	1,329.90	29	101.2	196.4	227.1	195.7	198.4	**243.2**
Great Lakes	6162G3VT3 CK	VT3	P500,V	111	215.6	18.3	1	1,336.90	25	99.3	202.6	252.1	210.1	199.9	213.1
Test Average =					**215.9**	**17.8**	**1**	**1,341.90**		**98.9**	**202.0**	**233.1**	**218.7**	**206.4**	**219.3**
LSD (0.10) =					14.4	0.9	1			33.5	25.0	20.8	19.0	22.6	17.4

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

LG Seeds	LG2620VT3	VT3	P500,V	113	**229.7**	19.1	1	1,418.90	1	140.9	238.1	**277.0**	232.2	**241.0**	248.7
Channel	212-75VT3P	VT3P	P500,V	112	**227.5**	19.3	1	1,403.90	2	**156.2**	217.5	263.1	241.6	**245.2**	241.5
Ebberts	7861VT3P*	VT3P	P250	111	**226.3**	19.0	0	1,398.50	3	149.6	**252.3**	260.9	238.7	207.3	249.0
Great Lakes	6354G3VT3	VT3	P500,V	113	**226.1**	18.9	1	1,398.00	4	**159.8**	**250.8**	250.6	240.2	212.5	242.8
Great Lakes	6232G3VT3	VT3	P500,V	112	**225.7**	19.6	2	1,390.80	5	138.6	239.2	263.3	231.7	221.3	**260.3**
Stewart	7V828	VT3P	P500,V	112	224.2	18.6	0	1,388.20	6	144.3	227.9	253.2	**260.7**	219.0	239.8
Heritage	4644GENVT3P	VT3P	P250	111	223.4	18.6	1	1,383.30	7	134.2	247.3	257.9	233.8	224.1	243.2
AgriGold	A6533VT3	VT3	P500,V	113	222.5	19.5	1	1,371.70	9	146.1	233.5	260.0	238.6	215.3	241.4
G2 Genetics	5H-013^*	HX,RR2	P1250,V	113	222.2	19.6	1	1,369.20	11	128.9	247.8	262.5	240.7	206.5	246.6
Ebberts	7642VT3P	VT3P	P250	111	222.1	18.6	1	1,375.20	8	126.5	228.3	256.8	**260.4**	207.8	252.9
Steyer	11302	VT3P	P250	113	221.6	18.7	1	1,371.50	10	132.6	**253.0**	255.9	230.3	219.1	238.9
LG Seeds	LG2636VT3	VT3	P500,V	114	220.3	20.7	1	1,350.20	16	127.1	230.2	255.1	242.7	225.4	241.0
Steyer	11406	VT3P	P250	115	219.9	19.5	2	1,355.70	13	133.5	227.1	253.2	229.9	218.7	**257.1**
Specialty	4644GENVT3P	VT3P	P250	111	218.7	18.2	1	1,356.80	12	134.7	235.4	262.5	230.1	223.3	226.1
Heritage	4640GENVT3P	VT3P	P250	111	218.3	18.1	0	1,355.00	14	139.1	228.7	238.1	250.6	219.8	233.3
Channel	212-08VT3P	VT3P	P500,V	112	218.3	18.2	1	1,354.30	15	127.1	238.1	262.6	235.8	214.0	232.1
Steyer	11401	3000GT	C250	114	217.5	20.0	2	1,337.60	18	147.9	197.0	**270.7**	234.1	212.2	243.2
Steyer	11204	VT3P	P250	112	216.5	18.7	0	1,339.90	17	133.8	245.1	239.6	240.7	207.6	232.3
AgriGold	A6573VT3	VT3	P500,V	113	215.9	20.9	3	1,322.00	23	118.9	227.0	247.5	236.5	211.2	254.5
LG Seeds	LG2602VT3	VT3	P500,V	112	215.8	20.0	1	1,327.20	21	152.3	204.7	254.2	233.5	200.2	250.0
AgriGold	A6476VT3Pro	VT3P	P500,V	110	215.2	18.5	2	1,333.20	19	147.2	224.2	242.1	228.0	198.4	251.0
Seed Consultants	SCS 11HQ31^	HXT,RR2	P1250,V	113	214.9	20.4	1	1,319.10	24	103.9	223.5	**270.1**	225.8	215.5	250.5
Golden Harvest	H-9138 3000GT	3000GT	C250	113	214.9	21.8	3	1,310.00	29	124.8	239.1	234.4	236.6	209.2	245.5
Stewart	8V226	VT3P	P500,V	112	214.6	18.7	1	1,328.20	20	150.3	210.8	241.0	243.1	206.8	235.3
Garst	84U58-3111	3111	C250	111	214.6	19.0	1	1,326.20	22	121.9	222.5	263.4	230.9	204.1	244.6
Great Lakes	6455G3VT3	VT3	P500,V	114	214.3	20.4	1	1,315.40	27	116.9	228.2	251.2	229.6	214.4	245.6
G2 Genetics	5X-812^*	HXT,RR2	C250	112	213.5	19.6	2	1,315.60	26	**160.7**	217.6	254.0	225.1	176.3	247.0
Ebberts	2014VT3P	VT3P	P250	112	213.2	19.1	1	1,316.90	25	99.0	231.8	251.0	247.0	210.8	239.6
Pioneer	P1184R GC	RR2	C250	111	211.8	19.1	0	1,308.30	30	113.3	218.3	230.6	**265.3**	204.2	238.9
Specialty	4640GENVT3P	VT3P	P250	111	211.1	17.6	1	1,313.50	28	137.0	211.5	243.8	244.6	187.6	242.2
Great Lakes	6162G3VT3 CK	VT3	P500,V	111	210.4	18.9	1	1,300.90	35	122.9	228.4	232.5	224.9	214.9	238.5
Test Average =					**213.0**	**19.4**	**1**	**1,314.00**		**126.0**	**222.1**	**246.9**	**236.0**	**208.3**	**238.7**
LSD (0.10) =					11.5	1.0	2			27.9	26.4	21.0	16.1	23.4	15.9

= rejected early test results not included in summary; ‡ = 2 replications full season test

Rich Schleuning, FIRST Manager



Corn Stats:
Yield Range: 152.9-227.6 bu. per acre
Yield Average: 191.8 bu. per acre
Top $ Per Acre: $1,428.40

Corn Field Notes: Indiana South

Carlisle—This plot was planted on May 21. Over the next two months, Between May and June this area received over 10 inches of rain, causing reduced stands with some lost plots. Jeff Mann, F.I.R.S.T. farmer member had to replant the field around the plot. The crop was in good health and standing well with light stalk rot. Early test data was rejected due to water damage and raccoon damage in multiple replications of numerous select hybrids. The full-season test was acceptable and yielded an average of 187.4 bu. per acre.

Columbus—Rainfall total for July was barely over a half-inch. High winds lodged corn. Stalk rot was prevalent due to dry conditions, as plants put all their effort into making ears. Shelling was hard because of soft cobs and deep kernel set. Kernels were not bright yellow. Only two reps were used due to water ponding. An average of 209.7 bu. per acre was harvested on the early-season test and 211.3 bu. per acre on the full-season test.

Elnora—The hot and dry July during pollination made for variable ear size, some barren stalks and inconsistent yields. Some ears were as short as soda cans with kernels missing on one side. Corn was standing perfectly with no lodging. Ear retention was weak on some hybrids. Stalk quality was starting to deteriorate by harvest.

Folsomville—Lodging scores are related to green snap and light root lodging. Some area fields had up to 40 percent green snap. Variable yields are due to green snap and associated yield loss. The site experienced high heat and dry conditions in July and part of August. Ears had good retention with decent kernel depth. Average early-season yields were 204 bu. per acre. The full-season test produced higher yield averages of 220.3 bu. per acre.

Grammer—Heavy rainfall after the May 20 planting date caused some ponding, and plots were lost. At sidedressing, the soil clumps behind the anhydrous bar looked and felt like stones. Extreme heat and dryness in July stole the top end yield potential. At harvest, corn stood well, but a pinch test showed poor stalk quality. Tip-back ears, barren stalks and small ears were common. The early-season test was rejected because of yield differences due partly to poor populations and stress from early-season excess water. The full test had variable conditions isolated to a single replication, eliminated to preserve results.

Huntingburg—The ability to handle heat at pollination was the deciding factor in the big swing in yields. We noted excellent grain quality with a good, deep kernel set. The crop was standing nicely at harvest with slight lodging due to stalk rot. Some hybrids were still green; only a handful had ears hanging down.

Site Information						2011 Rainfall (inches)					
Indiana South						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Carlisle	sandy loam	minimum	soybean	165	5/21	4.97	5.95	3.13	0.57	-1.79	-3.32
Columbus	sandy loam	no-till	soybean	143	5/19	9.54	5.15	0.72	4.39	-4.30	-0.38
Elnora	sandy clay	no-till	soybean	147	5/18	9.57	4.01	2.49	2.91	-2.85	-1.31
Folsomville	silty clay loam	conventional	corn, 2+ yr	233	5/18	7.70	6.14	6.45	2.23	1.33	-1.80
Grammer	clay loam	no-till	soybean	174	5/20	8.13	6.62	1.26	2.09	-3.76	-2.68
Huntingburg	clay loam	no-till	wheat	244	5/20	7.94	6.76	5.56	2.44	0.44	-1.59

F.I.R.S.T. Indiana South Corn Results

EARLY SEASON TEST 107 - 112 Day CRM — Top 30 of 42 tested

Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Carlisle#	Columbus‡	Elnora	Folsomville	Grammer#	Huntingburg
LG Seeds	LG2602VT3	VT3	P500,V	112	**227.6**	15.8	3	1,428.40	1	**231.7**	228.6	**205.2**	**240.8**	165.3	**235.9**
Pioneer	P1018HR GC	HX,RR2	C250	110	214.3	15.5	2	1,346.90	2	194.0	229.6	183.3	231.6	147.6	**212.5**
Stewart	8V226	VT3P	P500,V	112	211.9	15.6	1	1,331.20	3	157.9	222.8	**195.4**	230.2	144.0	199.2
Dekalb	DKC61-88 GC	VT3P	P250	111	208.3	14.9	1	1,312.30	4	186.3	208.8	174.9	**237.7**	137.6	**211.9**
Great Lakes	6232G3VT3	VT3	P500,V	112	206.7	16.1	3	1,295.40	6	177.3	231.1	**188.5**	205.2	150.1	202.0
Great Lakes	5939G3VT3	VT3	P500,V	109	206.2	15.3	3	1,297.20	5	173.3	208.4	**189.3**	218.7	153.8	208.5
Specialty	4640GENVT3P	VT3P	P250	111	204.6	14.7	1	1,289.00	7	187.3	218.2	138.6	**247.0**	124.7	**214.4**
LG Seeds	LG2555VT3	VT3	P500,V	110	203.0	15.7	3	1,274.60	8	182.8	213.9	**187.2**	201.6	162.1	209.4
NuTech	5B-1003*	GT/CB/LL	C250	110	203.0	16.5	0	1,269.80	10	216.7	221.5	173.2	213.0	129.6	204.3
Channel	212-17VT3P	VT3P	P500,V	112	202.7	15.8	1	1,272.10	9	158.9	204.7	170.2	**244.1**	79.3	191.9
Channel	212-75VT3P	VT3P	P500,V	112	202.4	16.1	2	1,268.40	12	185.1	214.0	166.8	222.0	155.6	206.6
Specialty	4662GENVT3P	VT3P	P250	112	202.3	15.9	4	1,269.00	11	186.3	231.5	176.4	223.7	141.0	177.6
Heritage	4662GENVT3P	VT3P	P250	112	201.5	16.1	1	1,262.80	14	146.3	224.1	181.1	206.9	139.1	193.8
Golden Harvest	H-8940 3000GT	3000GT	C250	111	201.3	15.4	2	1,265.80	13	174.4	197.4	160.5	**235.1**	129.4	**212.3**
LG Seeds	LG2549VT3	VT3	P500,V	109	199.8	15.2	2	1,257.50	15	186.3	200.7	177.8	217.5	**183.5**	203.1
Stine	9731VT3Pro*	VT3P	C250	110	199.5	15.5	1	1,253.90	16	151.4	214.2	174.1	189.0	118.6	**220.5**
Stine	9729VT3Pro*	VT3P	C250	110	198.6	15.6	2	1,247.60	17	204.3	212.8	163.1	232.2	159.1	186.1
Stewart	7V996	VT3P	P500,V	111	198.2	16.1	1	1,242.10	19	197.1	208.7	152.7	219.5	134.8	**211.8**
NK Brand	N68B-3111	3111	C250	111	197.9	15.9	1	1,241.40	20	169.3	213.6	152.1	227.9	74.9	198.0
Stine	9732VT3Pro*	VT3P	C250	112	197.3	16.9	1	1,231.70	21	174.4	183.3	144.6	**242.5**	123.6	**218.6**
Fielders Choice	NG6789	VT3	P250	113	195.4	16.6	1	1,221.60	22	191.5	181.3	164.8	225.5	132.9	209.8
Fielders Choice	NG6798	VT3P	P250	112	193.7	15.2	1	1,219.10	23	180.9	229.3	157.8	198.2	131.5	189.6
Heritage	4640GENVT3P	VT3P	P250	111	193.1	14.3	1	1,216.50	24	194.6	219.1	144.7	228.6	84.8	179.9
Stewart	7T945	VT3	P500,V	111	193.1	15.5	1	1,213.60	25	194.9	215.7	166.6	201.4	143.4	188.5
G2 Genetics	5H-1001^	HX,RR2	P1250,V	110	192.2	15.6	1	1,207.40	26	219.1	208.5	177.2	199.1	149.0	184.0
Specialty	8696GENSS	STX	P250	112	191.8	15.9	1	1,203.20	27	220.0	225.6	145.1	218.6	63.5	178.0
Augusta	A5560VT3	VT3	P250	110	191.2	15.8	3	1,200.00	28	184.5	209.6	179.0	193.1	123.5	182.9
Garst	84J30-3111	3111	C250	112	186.7	15.4	1	1,174.00	30	193.3	200.1	143.9	205.8	109.1	197.0
Steyer	1097	3000GT	C250	109	186.4	14.9	0	1,174.30	29	207.0	183.9	157.9	215.6	141.6	188.2
NuTech	5N-1004*	3000GT	C250	110	183.4	14.6	1	1,155.40	31	184.7	183.6	150.3	195.5	140.9	204.3
AgriGold	A6533VT3 CK	VT3	P500,V	113	198.9	16.7	2	1,242.90	18	186.2	199.7	**189.7**	205.5	125.1	200.7
Test Average =					**192.6**	**15.6**	**2**	**1,209.50**		**182.8**	**209.7**	**162.4**	**204.0**	**133.0**	**194.3**
LSD (0.10) =					23.3	0.7	7			46.4	25.5	24.5	30.4	41.1	17.3

FULL SEASON TEST 113 - 116 Day CRM — Top 30 of 42 tested

Channel	214-14VT3P	VT3P	P500,V	114	208.4	18.2	0	1,292.90	1	200.6	**239.1**	178.2	**267.0**	146.0	219.4
Dekalb	DKC63-84 GC	VT3	P250	113	203.0	16.8	1	1,267.90	2	196.8	**234.5**	181.9	218.6	175.6	210.6
LG Seeds	LG2641VT3	VT3	P500,V	114	202.8	19.1	1	1,252.70	3	190.6	218.1	168.5	235.2	**193.1**	211.4
Great Lakes	6530G3VT3	VT3	P500,V	115	201.9	18.7	2	1,249.60	4	169.3	231.3	167.6	**258.1**	174.6	210.4
NK Brand	N74R-3000GT	3000GT	C250	113	201.6	19.7	0	1,241.70	5	184.2	188.6	182.2	238.5	188.9	**227.1**
Great Lakes	6455G3VT3	VT3	P500,V	114	201.2	19.5	1	1,240.40	6	182.7	213.8	147.6	**257.8**	174.6	**230.8**
Golden Harvest	H-9447GT/CB/LL	GT/CB/LL	C250	115	201.0	19.7	2	1,238.00	7	**217.9**	225.8	162.3	238.7	154.9	206.6
Great Lakes	6354G3VT3	VT3	P500,V	113	200.5	17.8	1	1,246.30	8	189.7	210.2	**198.8**	247.1	156.2	201.1
Steyer	11406	VT3P	P250	115	200.5	18.0	2	1,245.10	9	208.8	225.7	162.7	238.4	159.7	207.6
LG Seeds	LG2620VT3	VT3	P500,V	113	199.6	18.9	0	1,234.10	10	191.3	210.9	176.0	226.2	172.8	220.3
G2 Genetics	5H-716^*	HX,RR2	C250	116	199.6	20.9	3	1,222.20	11	177.6	227.1	166.6	224.1	184.5	217.6
Heritage	4782GENVT2P	VT2P	P250	113	198.0	19.5	1	1,220.70	12	202.2	218.1	180.9	240.6	145.3	200.7
Stine	9808VT3Pro*	VT3P	C250	116	197.1	23.3	0	1,192.70	13	170.3	210.7	185.5	210.5	183.8	**221.9**
Channel	216-63VT3	VT3	P500,V	116	196.8	19.8	0	1,211.50	14	205.2	222.3	166.8	226.3	147.1	212.9
Steyer	11302	VT3P	P250	113	196.7	17.8	1	1,222.70	15	211.2	214.9	136.1	244.3	179.8	194.0
Augusta	A7664VT3	VT3	P250	114	196.0	19.6	0	1,207.80	16	181.6	220.6	177.1	227.9	162.2	206.8
Dyna-Gro	CX11113*	VT3P	P250	113	195.8	17.9	0	1,216.50	17	170.3	222.2	169.2	232.5	167.2	213.4
Garst	83S06-3111	3111	C250	113	194.7	18.7	2	1,205.00	19	192.1	223.3	173.3	235.3	143.1	201.2
Augusta	A6867GTCBLL	GT/CB/LL	C500,AV	116	191.4	21.1	2	1,170.80	20	207.6	213.6	163.6	240.8	161.9	160.8
Steyer	11401	3000GT	C250	114	191.1	19.0	2	1,181.00	21	180.5	209.4	161.9	229.8	163.7	201.0
Stewart	8V886	VT3P	P500,V	115	190.2	18.9	2	1,176.00	22	185.5	218.0	177.2	186.9	146.0	**227.3**
Stine	9806VT3Pro*	VT3P	C250	114	190.0	21.1	0	1,162.20	23	176.5	190.4	173.8	251.8	131.7	215.8
Stewart	8E624	VT2P	P500,V	113	189.5	17.9	1	1,177.40	24	194.5	216.3	160.2	224.5	141.9	199.4
Stewart	8V446	VT3P	P500,V	113	188.8	18.9	4	1,167.40	25	211.2	211.5	154.0	164.1	187.3	204.5
Specialty	4782GENVT2P	VT2P	P250	113	188.7	19.4	1	1,163.90	26	168.7	220.5	177.2	209.4	181.0	175.5
Dyna-Gro	D55VC21	VT2P	P250	115	188.2	18.4	1	1,166.50	27	196.0	183.8	149.3	236.4	160.1	203.5
Channel	216-96VT3P	VT3P	P500,V	116	187.7	18.7	2	1,161.70	28	174.8	209.7	165.7	216.8	164.5	194.8
G2 Genetics	5H-013^*	HX,RR2	P1250,V	113	187.4	18.2	1	1,162.60	29	186.7	202.1	120.3	234.1	178.3	202.6
Specialty	4919GENVT3P	VT3P	P250	115	186.9	18.8	2	1,156.20	30	166.1	214.0	163.5	192.6	167.6	217.4
Channel	213-32VT3	VT3	P500,V	113	185.5	19.4	0	1,144.20	31	169.7	222.9	158.6	234.6	129.6	197.6
AgriGold	A6533VT3 CK	VT3	P500,V	113	194.8	18.2	1	1,208.50	18	205.8	206.7	167.8	223.9	152.8	211.5
Test Average =					**190.9**	**19.1**	**2**	**1,179.60**		**187.4**	**211.3**	**162.8**	**220.3**	**161.6**	**202.3**
LSD (0.10) =					18.1	1.0	4			24.9	23.0	24.9	35.5	29.0	19.3

= rejected early test results not included in summary; ‡ = 2 replications full season test

PLANT IT AND THE PROTECTION GROWS

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

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

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

PONCHO/VOTiVO ADVANTAGES:

CORN

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

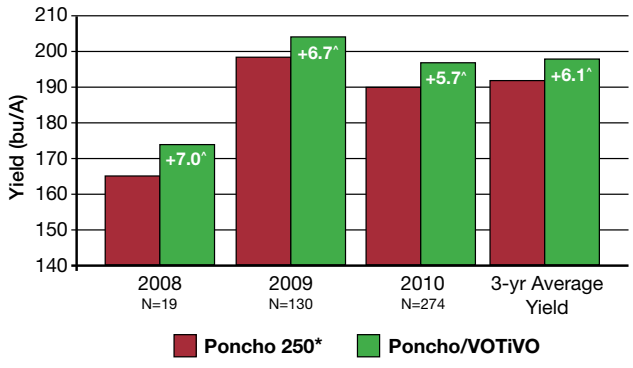
SOYBEANS

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

CORN TRIAL DATA

Poncho®/VOTiVO® Corn Demo Yield Comparisons

423 Trials, 2008–10, U.S.



^Poncho/VOTiVO average yield is statistically different from Poncho 250 at 95% confidence interval level.
*Poncho 250 is the 0.25 mg ai/seed rate of Poncho 600.

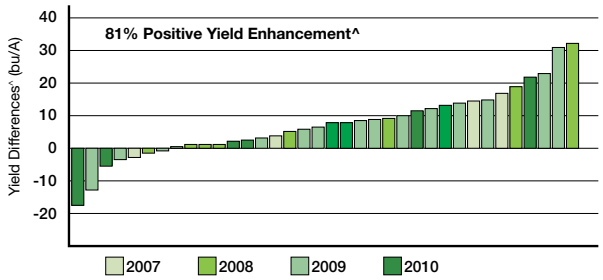
CRP0311PONVOT0010-R00

PONCHO®

VOTiVO®

Corn – Yield Advantage Over Poncho 250*

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



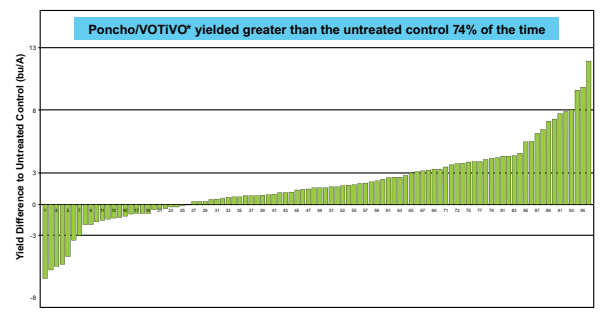
^Poncho®/VOTiVO® average yield is statistically different from Poncho 250 at 95% confidence interval level.
*Poncho 250 is the 0.25 mg ai/seed rate of Poncho 600.

AVAILABLE FOR CORN, COTTON, AND SOYBEANS.

SOYBEAN TRIAL DATA

2010 Yield Field Trials

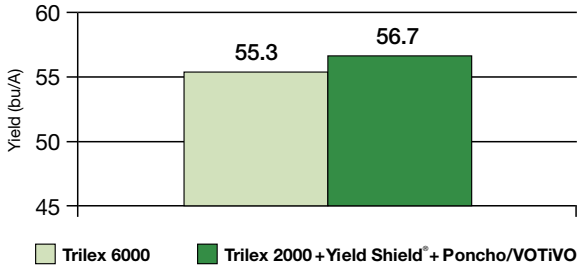
Benefit over Untreated Seed



*Includes Trilex 2000 + Yield Shield® Concentrate Biological Fungicide + Precise™ Soybean & Pro-Ized® red colorant.

Soybean – Poncho®/VOTiVO®* Benefit Over Trilex® 6000** Soybean System

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



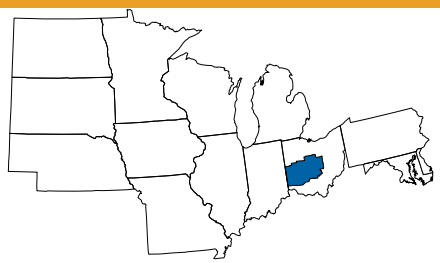
*Includes Trilex 2000, Yield Shield Concentrate Biological Fungicide, Precise™ Soybean & Pro-Ized® red colorant
**Trilex 6000 Soybean System consists of the following: Trilex 2000, Gaucho® 600 Flowable, Yield Shield Concentrate Biological Fungicide, Precise Soybean, and Pro-Ized red colorant.

For more information, visit PonchoVOTiVO.us.

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

Bayer CropScience

Rich Schleuning, FIRST Manager



Corn Stats:
Yield Range: 159.1-181.9 bu. per acre
Yield Average: 170.5 bu. per acre
Top $ Per Acre: $1,069.00

Corn Field Notes: Ohio West Central

Caledonia—Wet conditions delayed planting and now harvest. This nice crop was nice to harvest with no sign of disease. Ear size was good. Ears were 48 kernels long and 16 to 20 around. Grain moistures are high due to the late planting date and poor late-fall drying conditions.This site was planted on June 1. Most area crops are averaging 175 to 200 bu. per acre. As this is being prepared for printing, the extension office said harvest is only 15 percent complete in Ohio.

Celina—Delayed planting was typical in this area, having received over 9 inches of rain in May. This plot was no exception with a planting date of June 2. Standing was good but a stalk-pinch test revealed deteriorating quality. Some mold was starting on ears where husks had peeled back, allowing exposure. Yields averaged 178.2 bu. per acre.

Dunkirk—With ample moisture, plant heights were between 8.5 and 10 feet. Final stand was fair; we planted 34,000 and stand averaged 30,500. Plant health was good; corn was standing straight. One full-season replication was lost due to poor grass control. Rainfall was 7 inches in May, 2.6 in June, 7.3 in July, 5.2 in August, 6.1 in September and 4 in October. The 30-year average here is 20 inches, and so far this year we have received approximately 32.4 inches.

Lewistown—We had ample rain from May to July before heat came. The lake-bed soils took the late-July and August heat fairly well, as yields indicate. Stalk quality was excellent; Stratego was applied for disease control. The plot was good considering the season. A wet fall has caused a long harvest for the F.I.R.S.T. farmer members for this location. They hope to start harvesting by Thanksgiving. They do not care to make ruts in their no-till field, so they're determined to wait out the excessive moisture.

Springfield—At press time, harvest is not completed but results can be found at www.firstseedtests.com. The wet spring and fall continued into harvest. The push is to get soybeans out; all wagons and trucks are occupied with this. Additionally, the wet fall added moisture, and dryers have not been started up yet. Reports of 50 to 60 bu. per acre have come from 50 to 60 miles south, where extreme heat hurt yields. Reports around the Springfield latitude have been 170 to 200 bu. per acre—surprising, since planting was not until June.

Versailles—After planting, which took place on June 2, a 3-inch rain reduced stand to 27,300 plants per acre. A late-season August hailstorm cut some tops off plants. Stalk rot was observed and lodged-corn ears had only 28 to 30 kernels per row, compared to 48 in standing corn. We missed some much-needed rains; a mile away, corn was averaging 150 to 165 bu. per acre.

Site Information						2011 Rainfall (inches)					
Ohio West Central						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Caledonia	sandy clay loam	no-till	soybean	198	6/1	9.39	2.00	5.34	3.20	0.36	-1.55
Celina	sandy clay loam	minimum	soybean	190	6/2	9.12	3.76	1.47	5.11	-3.18	0.96
Dunkirk	sandy clay loam	no-till	soybean	203	6/1	7.03	2.68	7.30	5.28	3.38	1.70
Lewistown	sandy clay loam	no-till	soybean	179	6/3	7.80	2.70	3.12	5.07	-1.53	0.92
Springfield	sandy clay loam	no-till	soybean	140	6/3	7.37	3.53	4.31	2.00	-1.17	-2.68
Versailles	silty clay loam	conventional	soybean	168	6/2	6.08	4.96	3.08	2.34	-0.56	-1.04

F.I.R.S.T. Ohio West Central Corn Results

EARLY SEASON TEST 105 - 110 Day CRM — Top 30 of 42 tested

Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Caledonia	Celina	Dunkirk‡	Lewistown	Springfield	Versailles
Mycogen	2P616 GC	HXT,RR2	n/a	108	**181.9**	29.1	0	1,069.00	1	213.7	189.4	185.1	202.2		118.9
FS Seeds	FS 60TV4	VT3P	C250	110	**181.9**	29.6	0	1,066.30	2	203.8	**194.4**	197.3	195.2		119.0
NK Brand	N68B-3111	3111	C250	111	**181.9**	29.9	0	1,064.70	3	208.3	179.6	192.9	191.8		**136.8**
Steyer	11002	3000GT	C250	110	**181.2**	30.6	0	1,056.80	5	212.2	192.8	197.6	187.6		115.7
Ebberts	7357VT3P	VT3P	P250	107	179.1	28.0	0	1,058.50	4	182.3	178.9	**212.9**	204.4		117.2
Ebberts	2909VT3P	VT3P	P250	109	179.1	28.7	0	1,054.70	6	216.5	187.1	184.5	198.2		109.2
Ebberts	7501VT3P	VT3P	P250	109	177.9	29.6	1	1,042.80	8	206.2	189.3	195.2	193.5		105.2
Steyer	1097	3000GT	C250	109	176.5	27.8	0	1,044.20	7	204.9	181.8	183.3	201.2		111.4
Great Lakes	5939G3VT3	VT3	P500,V	109	176.1	28.7	0	1,037.10	10	207.9	184.1	180.8	196.2		111.3
Stewart	6V556	VT3P	P500,V	106	175.8	28.2	0	1,037.90	9	202.7	177.3	201.9	186.8		110.5
LG Seeds	LG2555VT3	VT3	P500,V	110	175.6	29.6	1	1,029.40	11	195.7	185.2	193.9	197.6		105.8
FS Seeds	FS 56TV4	VT3P	C250	106	174.0	30.0	0	1,017.90	13	209.2	176.3	**205.9**	175.9		102.6
G2 Genetics	5H-0701^	HX,RR2	C250	106	173.2	27.8	1	1,024.70	12	190.9	185.0	183.5	190.3		116.2
Fielders Choice	NG6731	VT3	P250	107	173.0	29.7	0	1,013.60	16	208.9	171.7	180.2	187.7		116.4
FS Seeds	FS 58MV4	VT3P	C250	108	172.3	29.5	0	1,010.50	17	203.7	178.1	183.7	185.0		111.0
NK Brand	N53C-3111 GC	3111	C250	105	172.2	28.5	0	1,015.10	15	196.6	182.8	187.7	189.5		104.6
NuTech	5B-1003*	GT/CB/LL	C250	110	172.1	29.6	0	1,008.90	18	200.8	**197.5**	171.5	173.1		117.8
NK Brand	N61P-3000GT GC	3000GT	C250	107	171.9	28.0	0	1,015.90	14	195.0	180.7	184.9	191.0		107.8
Specialty	4636GENVT3P	VT3P	P250	110	171.4	30.2	1	1,001.70	21	188.3	179.1	193.4	194.7		101.6
FS Seeds	FS 57SV3	VT3	C250	107	170.6	28.2	0	1,007.20	19	196.1	175.4	177.8	192.9		110.6
Mycogen	2C641 GC	RR2	n/a	108	170.5	28.7	1	1,004.10	20	204.2	170.5	177.2	188.9		111.9
Stine	9731VT3Pro*	VT3P	C250	110	170.1	29.9	1	995.60	24	208.3	168.3	197.9	178.0		98.1
G2 Genetics	5X-908^*	HXT,RR2	C250	108	169.5	28.2	0	1,000.70	22	197.1	174.6	188.0	177.8		110.1
Steyer	10701	VT3P	P250	107	168.3	28.5	0	992.10	26	182.1	164.7	188.8	187.5		118.3
Specialty	8610GENSS	STX	P250	109	167.6	29.6	0	982.50	29	206.1	167.3	186.2	174.2		104.4
Ebberts	7358VT3P*	VT3P	P250	108	167.3	27.6	0	990.80	27	199.0	170.3	171.3	177.1		119.0
Stine	9529VT3Pro*	VT3P	C250	106	167.3	28.1	1	988.20	28	195.4	171.7	185.5	178.9		105.2
Specialty	8390GENSS	STX	P250	105	167.0	26.9	0	992.50	25	193.0	185.2	182.6	159.3		115.0
NuTech	5N-1004*	3000GT	C250	110	166.8	29.0	0	980.80	30	198.4	184.6	170.4	173.5		107.2
Stewart	7A638	STX	P500,V	110	166.1	28.2	0	980.70	31	193.1	170.0	171.6	180.7		115.2
Great Lakes	6162G3VT3 CK	VT3	P500,V	111	170.1	29.7	0	996.60	23	192.8	186.2	187.0	177.8		106.7
Test Average =					**170.9**	**28.9**	**0**	**1,005.00**		**196.4**	**178.2**	**184.4**	**185.4**		**110.0**
LSD (0.10) =					9.0	1.6	1			21.0	15.7	18.4	19.4		13.2

Delayed Harvest - Visit www.firstseedtests.com For Results

FULL SEASON TEST 111 - 114 Day CRM — Top 30 of 42 tested

Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Caledonia	Celina	Dunkirk‡	Lewistown	Springfield	Versailles
Great Lakes	6232G3VT3	VT3	P500,V	112	177.8	31.6	0	1,031.60	1	**206.1**	183.3	184.3	206.3		109.0
Steyer	11302	VT3P	P250	113	177.5	32.0	0	1,027.70	2	188.1	184.0	194.7	210.3		110.3
Specialty	4662GENVT3P	VT3P	P250	112	176.5	31.1	0	1,026.70	4	191.9	181.0	188.4	199.8		121.6
Stewart	8V226	VT3P	P500,V	112	176.3	30.8	0	1,027.10	3	188.8	190.8	178.5	204.5		118.7
Stine	9732VT3Pro*	VT3P	C250	112	175.6	31.6	0	1,018.80	5	194.8	181.5	176.6	206.8		118.4
Great Lakes	6455G3VT3	VT3	P500,V	114	174.5	31.6	0	1,012.40	6	190.5	**203.7**	**197.9**	162.0		118.6
Stewart	7T945	VT3	P500,V	111	173.6	31.5	0	1,007.70	9	190.9	182.2	173.2	213.0		108.6
Steyer	11406	VT3P	P250	115	173.6	31.6	0	1,007.20	10	182.0	179.5	190.9	199.1		116.3
Great Lakes	6354G3VT3	VT3	P500,V	113	173.2	30.6	0	1,010.10	7	188.2	170.3	195.8	200.1		111.5
Specialty	4644GENVT3P	VT3P	P250	111	173.1	30.7	0	1,009.00	8	187.7	174.6	163.0	**218.8**		121.2
NuTech	5V-514*	3111	C250	114	172.7	31.9	0	1,000.50	12	186.8	188.6	189.8	188.0		110.5
Pioneer	P1395XR GC	HXT,RR2	C250	113	172.6	31.9	0	999.90	13	192.6	194.5	172.3	187.6		116.0
Dekalb	DKC62-97 GC	VT3P	P250	112	172.5	32.2	0	997.70	14	202.0	184.6	167.5	195.5		113.0
Steyer	11204	VT3P	P250	112	172.0	30.9	0	1,001.60	11	182.2	189.1	180.6	200.9		107.2
Specialty	4640GENVT3P	VT3P	P250	111	171.8	31.5	0	997.30	16	187.8	199.5	163.5	191.8		116.3
LG Seeds	LG2620VT3	VT3	P500,V	113	171.6	31.2	0	997.70	15	187.7	184.6	188.4	189.1		108.1
Stewart	7V996	VT3P	P500,V	111	171.2	32.4	0	989.20	22	196.4	175.6	183.7	185.5		114.7
Channel	213-32VT3	VT3	P500,V	113	171.2	33.3	0	984.60	24	193.5	190.6	161.0	186.7		**124.4**
Ebberts	7861VT3P*	VT3P	P250	111	171.1	31.0	0	995.80	18	183.9	188.1	171.5	197.2		114.8
FS Seeds	FS 63MV4	VT3P	C250	113	170.5	31.1	0	991.80	19	194.7	171.9	**202.6**	171.6		111.5
Garst	84J30-3111	3111	C250	112	170.5	31.4	0	990.30	20	185.1	174.1	188.2	199.1		106.1
Stine	9806VT3Pro*	VT3P	C250	114	170.4	31.4	0	989.70	21	197.2	184.3	152.6	211.1		106.7
Ebberts	2711QUAD	3000GT	P250	111	170.3	32.7	0	982.50	27	197.6	197.5	158.8	193.5		104.0
Channel	214-14VT3P	VT3P	P500,V	114	170.0	31.8	0	985.30	23	181.2	185.0	181.2	191.5		111.0
NuTech	5V-813*	3111	C250	113	169.9	32.4	0	981.70	28	170.7	200.2	182.5	186.2		109.7
Mycogen	2A695 GC	HXT,RR2	n/a	110	169.8	32.1	0	982.60	26	175.9	195.7	188.9	179.6		108.8
Steyer	11401	3000GT	C250	114	169.8	32.7	1	979.60	29	187.1	188.8	172.6	199.9		100.5
LG Seeds	LG2636VT3	VT3	P500,V	114	169.4	31.6	0	982.90	25	180.3	185.3	185.9	185.6		109.8
FS Seeds	FS 64JV3	VT3	C250	114	168.7	32.1	0	976.30	30	183.2	180.7	177.6	191.6		110.5
G2 Genetics	5H-013^*	HX,RR2	P1250,V	113	167.0	30.5	0	974.40	31	185.6	168.8	173.9	191.7		114.9
Great Lakes	6162G3VT3 CK	VT3	P500,V	111	171.2	30.9	0	996.90	17	186.6	188.8	178.2	199.6		102.9
Test Average =					**170.0**	**31.6**	**0**	**985.90**		**187.5**	**183.8**	**176.5**	**191.3**		**110.7**
LSD (0.10) =					10.3	1.4	0			16.8	16.5	21.0	22.2		11.4

Delayed Harvest - Visit www.firstseedtests.com For Results

‡ = 2 replications full season test

Rob Kauffman, FIRST Manager

Corn Stats:
Yield Range: 133.6-162.6 bu. per acre
Yield Average: 148.7 bu. per acre
Top $ Per Acre: $1,104.80

Corn Field Notes: Pennsylvania Central

Centre Hall— A wet spring forced a late planting date of May 31 here at the Centre Hall test plot. This, combined with some very hot and dry summer weather, resulted in delayed maturity for any hybrid over 105 days. Very high lodging, occurring up to over 50 percent in some hybrids, was observed.

Anthracnose and Giberella stalk rot were the main factors contributing to these problems. Fertility levels are excellent at this location, and some hybrids have a problem standing when these diseases are present. A Nov. 5 harvest showed average yields of 159.5 bu. per acre. This year's plot allowed farmers to look at the three big factors in hybrid selection: yield, standability and drydown. This was a good plot when you consider that it was under higher-than-normal stress levels.

Danville—Although the Danville test plot was planted later than normal, it was still planted about two weeks earlier than most of the other corn in the area. Growing conditions here were good except for a two-week period in late July and early August.

Corn rolled its leaves, but with the heavy limestone soils, this did not hurt yields very much. Overall, this is a great plot when it is under closer-to-normal growing conditions. With some of the plots experiencing severe drought, the Central Susquehanna River Valley was blessed with decent rainfall amounts through the summer. Very little disease was noted in the site and standability was very good. This plot was protected from the late-September storms.

Martinsburg—It was a wet spring prior to planting here at Martinsburg. After planting, which occured at this location on May 25, less than 1 inch of rain fell until late in July.

The corn plants here were extremely short; most of the plants averaged less than 6 feet tall. Some rains in August helped plants put on a nice ear with many of them almost touching the ground at harvest.

Although the hybrids survived the summer months, their maturity was delayed and their yields were greatly influenced by their maturity and their ability to handle extreme moisture stress. The lodging rate represents a combination of broken stalks as well as ear height. The higher the ear placement on the stalk, the better the rate (i.e. the lower the lodging score) will be.

McVeytown—This location was originally planted in May but poor emergence due to wet weather conditions forced a replant in early June. The late rains in August were ideally timed, due to the replanting, to help make better yields. Had the original planting been utilized, the dry conditions would have further reduced the yields. The corn height was short due to some early-season moisture stress; however, ear fill and kernel development was good, with the plant populations in the low 30,000s per acre.

Rainfall here was well below the 30-year average. The shortages each month were as follows: June was short 3.25 inches, July was short 2.7 inches, and August was short 0.6 inch. These shortages explain the low yields. The average yield on this test, from the replant, was 106.1 bu. per acre.

Northumberland—This test plot location both got off to a good start (after being planted on May 13) and finished looking good as well (being harvested on Nov. 7). There was very little disease and root lodging observed in this plot. What gray leaf spot was present came late in the growing

Photo courtesy of Joe Bruce

Seed containing envelopes are poised for pouring into planter seed meters.

F.I.R.S.T. Pennsylvania Central Corn Results

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

Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Centre Hall	Danville	Martinsburg	McVeytown	Northumberland	Ringtown
Fielders Choice	NG6710	VT3P	P250	108	**162.6**	23.3	2	1,104.50	2	**183.0**	182.2	108.3	**119.1**	201.4	181.5
GROWMARK FS	5667GT3*	3000GT	C250	106	**160.0**	18.8	9	1,104.80	1	**180.8**	178.6	109.7	108.2	**202.0**	180.9
TA Seeds	TA545-20	3000GT	P250	104	157.3	18.9	2	1,085.80	3	172.4	170.3	**113.2**	110.5	200.1	177.4
Hubner	H5333VT3P	VT3P	P500,V	107	156.5	21.2	2	1,071.20	6	**181.0**	163.9	109.6	**130.6**	187.6	166.3
Channel	199-55VT3	VT3	P500,V	99	156.1	17.5	4	1,082.90	4	**185.1**	178.6	**111.1**	99.8	189.2	172.9
TA Seeds	TA565-20	3000GT	P250	106	155.6	19.0	4	1,073.60	5	162.3	**191.0**	99.4	115.1	185.1	180.5
Augusta	A5658GTCBLL	GT/CB/LL	C250	108	155.6	20.9	5	1,066.20	7	162.6	182.0	87.8	114.9	**201.9**	**184.5**
Hubner	H4310VT2P	VT2P	P500,V	108	155.1	22.2	5	1,057.80	8	165.7	171.7	98.5	115.3	200.1	179.2
Fielders Choice	*NG6788*	*VT3*	*P250*	111	*153.9*	*25.2*	*2*	*1,038.10*	*13*	*160.0*	*176.6*	*75.7*	*116.2*	***207.5***	***187.2***
Augusta	A2854CBLL	CB/LL	C250	104	152.7	19.2	6	1,052.90	9	159.3	178.3	**128.5**	104.2	177.1	168.9
Channel	208-72VT3	VT3	P500,V	107	152.4	23.6	7	1,034.00	14	157.3	167.9	90.8	111.8	200.4	**186.2**
TA Seeds	TA587-22DP	VT2P	P250	108	152.0	21.0	1	1,041.20	10	174.9	172.3	103.1	105.8	192.4	163.5
Masters Choice	MC-534	None	P250	107	152.0	21.6	4	1,038.90	11	176.0	155.2	80.1	118.0	**205.8**	177.1
Hubner	H5222VT3	VT3	P500,V	101	150.4	18.8	10	1,038.50	12	168.8	**186.6**	99.8	94.7	188.0	164.5
Augusta	A5560VT3	VT3	P250	109	148.8	23.1	7	1,011.50	20	153.9	167.5	96.8	98.4	197.5	178.4
Fielders Choice	NG6705	STX	P250	108	147.1	20.2	3	1,010.60	21	170.6	168.9	102.2	110.7	186.8	143.4
Hubner	H5288VT3P	VT3P	P500,V	104	147.0	19.0	9	1,014.30	16	152.0	178.2	86.4	112.5	182.7	170.4
TA Seeds	TA525-13VP	VT3P	P250	102	146.9	18.6	1	1,015.10	15	147.6	182.8	99.3	116.3	168.6	166.7
Doeblers	529GRV	3111	C250	103	146.7	18.6	6	1,013.70	17	169.1	156.3	96.6	104.9	188.7	164.8
Masters Choice	MC-5250	None	P250	102	146.7	18.7	14	1,013.30	18	145.7	174.0	98.0	97.1	192.9	172.3
Channel	202-32STX	STX	P500,V	102	146.5	18.6	10	1,012.30	19	149.2	177.5	80.4	103.9	190.4	177.3
Dyna-Gro	D43QV30	3111	P250	103	146.0	18.8	8	1,008.10	22	168.6	166.5	76.6	112.9	184.2	167.2
Dyna-Gro	D45VC90	VT2P	P250	105	144.6	18.1	3	1,001.00	23	144.1	178.0	78.9	104.1	190.4	171.8
Doeblers	554GRQ	3000GT	C250	105	144.1	18.4	4	996.50	24	154.7	160.8	105.7	94.4	177.3	171.8
Masters Choice	MCT-527	3000GT	P250	105	142.1	17.8	14	984.80	25	141.0	157.5	98.4	77.4	193.4	**184.9**
Fielders Choice	NG6677	STX	P250	106	140.9	19.0	8	972.20	26	167.7	156.6	71.8	117.5	169.4	162.6
Masters Choice	MC-5320	None	P250	103	136.9	23.3	9	929.90	28	130.8	171.5	94.6	94.1	156.7	173.7
Fielders Choice	NG6681	STX	P250	106	135.5	20.4	10	930.20	27	140.0	148.2	89.4	95.6	170.8	169.1
Hubner	H6110GENSS	STX	P500,V	98	134.3	18.1	10	929.70	29	156.5	165.6	80.6	99.0	151.2	152.6
Augusta	A2954CBLL	CB/LL	C250	104	133.6	18.1	17	924.80	30	105.3	157.0	90.7	79.4	189.4	179.8
Test Average =					**148.7**	**20.0**	**7**	**1,021.90**		**159.5**	**170.7**	**95.4**	**106.1**	**187.6**	**172.6**
LSD (0.10) =					11.0	1.2	8			17.9	13.9	15.6	12.5	14.0	10.8

season and did not affect standability.

Rainfall was adequate for most of the growing season and the heavy limestone soil helped the hybrids go through any of the dry periods experienced. There was a three-week-or-less span where the plants were stressed from the high heat and lack of moisture, but the yields were only marginally affected from this.

Drydown and harvest were close to the average of past years. This was an excellent plot again for hybrid evaluation.

Ringtown—This Ringtown site was an excellent test plot with consistent plot results. Although the soil is more of a clay or shale type, this region can still produce some nice corn yields if it gets enough rainfall. With the growing season here being a little shorter than most of the other PACE region plots due to elevation, there is always a concern as to whether or not the hybrids can mature adequately before the frost comes in the fall. With the planting date a week later than normal, some of the hybrids did not drydown as liked, but they still were able to give excellent yields. Most of the hybrids stood well, and disease was not an issue.

Site Information						2011 Rainfall (inches)					
Pennsylvania Central						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Centre Hall	silt loam	minimum	corn, 2+ yr	200	5/31	6.38	2.77	1.84	5.29	-2.95	0.43
Danville	silt loam	no-till	soybean	150	5/31	7.90	3.94	2.81	6.49	-1.77	1.78
Martinsburg	silty clay loam	no-till	corn	160	5/25	5.73	0.75	2.57	4.84	-0.98	1.60
McVeytown	clay loam	no-till	soybean	165	6/4	6.76	1.80	2.02	4.28	-2.77	-0.58
Northumberland	sandy clay loam	no-till	soybean	235	5/13	6.47	3.53	3.57	6.99	-1.01	2.28
Ringtown	clay loam	no-till	soybean	185	5/13	5.01	4.36	2.34	6.56	-3.55	0.99

Rob Kauffman, FIRST Manager

Corn Stats:
Yield Range: 106.2-133.5 bu. per acre
Yield Average: 120.9 bu. per acre
Top $ Per Acre: $906.10

Corn Field Notes: Pennsylvania South East

Elverson—This test site held together very well after going through a very difficult growing season. Many farmers in the Elverson area got corn yields that were half as large as those in normal years, but they were still happy to get what yields they did, considering how hot and dry this year was.

The months of June and July were extremely dry, followed by a wet and stormy August and September. There was some evidence of gray leaf spot observed but it came late in the season and did not affect the corn yield or standability.

This was an excellent test plot as far as statistics are concerned, with very little variability. A few more inches of rainfall would have set this plot right where it usually yields.

Hanover—May and June were good months here at the Hanover test plot. Corn was off to a good start until the rains stopped and the heat started. July and August saw almost no rain while at the same time the temperatures were in the 90s and 100s.

This was a year of two extremes: a wet and cool spring was followed by a hot and dry summer, then finished with a wet and stormy fall. (It was "just like an Oreo cookie," one farmer told me.) You would have needed to have a heat- and drought-tolerant hybrid to achieve good yields this year.

Most of the hybrids had very little kernel set due to the extreme heat that occurred during pollination. This plot looked so good in mid-June and so awful in mid-August. The variability was good simply because most hybrids yielded so little.

Kutztown – This plot was yet to be harvested at press time, but results can be found at www.first-seedtests.com. The yields for this location are expected to be around 100 bu. per acre.

This test location got planted early (on May 19) and had excellent stands, but with the hot and dry summer, the yields were lower than they usually are. Hurricane Lee caused most of the hybrids to lay flat on the ground, and harvest will occur when stalks are dry and feed through the combine.

Lancaster—This Lancaster site was a good plot! Despite having some below-average populations in the test, the yields here were very consistent. The amounts of rainfall were below normal for the months of June and July but most of the hybrids seemed to handle the stress quite well. Although the yield amounts were lower than normal, a few showers experienced throughout the growing season kept hybrids from shutting down on maturation and also kept all maturities equal for yield comparison.

The plot also allowed for good lodging rates. Some hybrid resistance to certain stalk rots were very evident, with some gray leaf spot and Anthracnose coming in very late in the growing season. We had very nice and consistent results in a year that was not outstanding in yields.

Lebanon—It was nice to see which of the hybrids tested performed well under some good growing conditions. With a lot of the plots in the southeastern Pennsylvania region put under severe or moderate stress, it was good to have a plot that actually received adequate rainfall levels.

Photo courtesy of Rob Kauffman

An early season photo from one of our Mid-Atlantic geography test locations. Corn stand counts and roto-tilling of alleys between plots were completed shortly before this photo was taken.

F.I.R.S.T. Pennsylvania South East Corn Results

ALL SEASON TEST 105 - 115 Day CRM — **Top 30 of 36 tested**

Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Elverson	Hanover	Kutztown	Lancaster	Lebanon	Spring Grove
Channel	214-14VT3P	VT3P	P500,V	114	**133.5**	23.5	4	906.10	1	126.9	36.8		154.4	**208.0**	**141.6**
Hubner	H5609VT3P	VT3P	P500,V	112	**133.5**	24.1	1	904.10	2	117.7	**67.0**		152.2	**211.1**	119.6
Channel	212-08VT3P	VT3P	P500,V	112	**132.4**	22.9	4	900.70	3	**133.3**	33.0		**170.7**	194.1	**130.8**
Dyna-Gro	CX11114*	VT3P	P250	114	129.0	22.8	4	877.80	4	129.5	31.0		**159.4**	201.1	124.1
Augusta	A0720CBLL	CB/LL	C250	112	128.9	24.2	5	872.70	5	128.8	**46.6**		148.5	191.8	128.6
Channel	212-17VT3P	VT3P	P500,V	112	128.5	24.4	12	869.30	6	120.6	40.5		149.2	203.2	129.1
TA Seeds	TA717-20	3000GT	P250	114	128.4	25.1	5	866.40	7	124.0	**54.8**		145.7	190.2	127.2
Dyna-Gro	57V59	VT3	P250	114	127.3	22.8	7	866.30	8	115.0	**56.8**		145.9	188.5	**130.4**
Hubner	H6762GENSS	STX	P500,V	114	125.8	25.1	2	848.80	9	125.7	29.6		141.9	**205.4**	126.6
Fielders Choice	NG6818	VT3	P250	114	125.0	23.9	14	847.20	10	122.0	**51.4**		143.8	185.5	122.1
Pioneer	35K01 GC	RR2	C250	115	123.1	22.0	34	840.20	11	114.0	39.4		144.5	199.4	118.2
TA Seeds	TA657-13VP	VT3P	P250	111	123.0	23.2	6	835.80	12	120.9	36.1		145.4	196.1	116.4
Augusta	A5462GT3000	3000GT	C500,AV	112	123.0	25.1	2	829.90	15	116.3	**49.8**		139.7	186.0	123.0
Augusta	A6164GT3000	3000GT	C250	115	123.0	25.3	7	829.30	16	129.4	41.6		145.6	185.7	112.7
Channel	208-72VT3	VT3	P500,V	107	122.6	22.8	9	834.30	13	119.5	**42.6**		151.9	190.0	108.9
TA Seeds	TA720-20	3000GT	P250	113	122.5	25.3	4	826.00	17	122.2	39.6		141.0	183.5	126.2
Hubner	H5333VT3P	VT3P	P500,V	107	121.8	21.6	6	832.50	14	113.1	30.6		145.3	201.4	118.8
Channel	211-99VT3P	VT3P	P500,V	111	121.3	23.7	3	822.70	18	115.3	21.8		147.0	203.5	119.0
Augusta	A5461GTCBLL	GT/CB/LL	C500,AV	111	121.2	24.9	6	818.40	19	**134.6**	26.1		149.2	185.1	110.8
GROWMARK FS	6313VP3*	VT3P	P250	114	121.2	25.9	5	815.40	21	125.3	22.7		141.5	190.0	126.3
Doeblers	674GRQ	3000GT	C250	112	121.0	24.9	4	817.10	20	118.4	**50.2**		142.3	178.2	115.9
GROWMARK FS	6296VT3*	VT3	P250	112	119.3	24.2	6	807.70	22	113.4	38.1		144.9	184.4	115.5
Fielders Choice	NG6843	VT3	P250	114	118.7	24.7	16	802.10	23	114.2	22.4		146.5	**205.1**	105.5
Augusta	A0606GTCBLL	GT/CB/LL	C500,AV	111	118.1	25.4	12	796.00	24	112.3	26.2		**156.6**	176.9	118.7
Masters Choice	MCT-628	3000GT	P250	115	116.8	22.6	8	795.40	25	114.1	35.4		133.5	180.3	120.6
Doeblers	RPM 633HXR^	HX,RR2	C250	110	116.6	25.6	7	785.30	28	121.5	12.6		152.8	182.6	113.7
Augusta	A7664VT3	VT3	P250	114	116.3	24.8	6	785.60	27	112.6	37.2		138.6	179.2	113.7
Hubner	H6555GENSS	STX	P500,V	111	116.2	24.4	3	786.10	26	108.5	30.3		145.0	178.9	118.4
Masters Choice	MC-534	None	P250	107	114.8	22.5	6	782.10	29	114.7	20.5		142.7	191.6	104.4
Augusta	A5560VT3	VT3	P250	109	114.6	22.1	4	781.90	30	113.8	22.7		144.9	184.3	107.3
Test Average =					**120.9**	**24.0**	**7**	**819.10**		**118.3**	**33.9**		**145.0**	**189.3**	**118.0**
LSD (0.10) =					9.5	1.1	8			11.8	8.6		10.9	14.4	12.3

Results available at www.firstseedtests.com

The so-called "racehorse hybrids" really shine with the growing season here in Lebanon County. Rains came often and with a good amount of inches. The temperatures experienced this year were high enough for good hybrid maturity but also did not restrict any pollination. The direction of the rows also helped, as Hurricane Lee blew its winds from the east and only a few hybrids showed any root lodging. This was an excellent plot in which hybrids could go to the max in terms of yield.

Spring Grove – This Spring Grove test site had good emergence and early-season vigor this year. This plot looked really good going into the month of July. July was very hot, receiving less than 1 inch of rainfall. The rains did start again in late August, but by that time some of the hybrids were past being helped. A thinner stand and a later planting date helped this location get the yield that was harvested. This plot was harvested after a snowfall in late October, which had no real contribution on the harvest data. Standability was still good at the time of harvest and disease pressure was very low. Considering the challenges this site faced this year, this was a good test location.

Site Information						2011 Rainfall (inches)					
Pennsylvania South East						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Elverson	silt loam	no-till	soybean	210	5/11	3.43	1.68	1.27	12.33	-4.37	6.89
Hanover	silty clay loam	conventional	soybean	185	5/10	4.34	0.92	2.11	7.52	-2.57	3.42
Kutztown	silt loam	conventional	soybean	185	5/9	4.24	3.05	2.63	10.28	-2.74	5.51
Lancaster	silty clay loam	no-till	corn	230	5/27	5.70	4.07	1.88	6.72	-2.53	3.02
Lebanon	silt loam	no-till	soybean	190	5/5	3.90	5.84	2.08	11.63	-2.82	7.87
Spring Grove	silty clay loam	no-till	corn	200	5/27	4.11	1.08	2.82	7.13	-1.86	3.03

Rob Kauffman, FIRST Manager

Corn Stats:
Yield Range: 110.6-145.7 bu. per acre
Yield Average: 128.7 bu. per acre
Top $ Per Acre: $1,000.60

Corn Field Notes: Delaware Maryland North

Bridgeville—The growing season started off well at this full-season test site. We saw good emergence and early growth; however, extremely hot and dry conditions from July through early August really hurt yields. Despite irrigation, hybrids saw lots of moisture stress. Rains and a late hurricane finished a hard season. Ear mold and sprouted kernels were evident. With most ears upright, late rainfall caused molds to flourish. Mycotoxin and aflatoxin will be a concern for local grain distributors. Stalk quality was good and allowed most hybrids, even if lodged, to get good yield data.

Average yields were 141.3 bu. per acre with a high producer yielding 176 bu. per acre. Average lodging scores were 13.3 percent, which was not terrible, considering the adverse weather of Hurricane Lee.

Photo courtesy of Corey Rozenboom

A Gleaner K2 harvests corn plots, 2 rows per pass, stopping at 45 feet intervals to measure yield and grain moisture.

Chestertown—Planting late (May 30) probably helped yields because of hot and dry weather from July to early August. Good organic matter (2 percent) was also a benefit. Many area fields yielded under 50 bu. per acre. Plant height was extremely short with most hybrids below 7 feet.

Ear development was good in length but the diameter was small, and kernel length was shorter than in normal seasons. A lodging score of 95 percent root lodging due to Hurricane Lee did not help yields. In general, however, this plot was standing very well and data is good for being under stressful circumstances. Yields averaged 63.2 bu. per acre with a top performer yielding 100.2 bu. per acre.

Middletown—When spring started things looked good, but in July the rainfall quit until late August. Most hybrids experienced severe stress followed by heavy disease pressure and a late-season hurricane. This was the perfect storm for a lot of area farmers. A very wet spring made planting difficult; this was followed by an extremely hot and dry July and August. The growing season finished with a storm to lay over hybrids that had weak stalks from the summer stress.

Most plots were severely lodged but we did feed what grain was there through the combine. Some hybrids did stand and even made a little yield!

Highly variable yields, due to lodging from hurricane winds and stresses of the dry growing season, caused rejection of this data. Yields were minimal. We had an average yield of 85.5 bu. per acre with a top producer yielding only 126.1 bu. per acre.

Sudlersville—Bacterial stalk rot was observed when corn was only 24 inches tall, causing hybrids to lose 10 to 20 percent of the planted population. Lodging scores will indicate which hybrids were more susceptible to this bacterial stalk blight. Plants remaining were susceptible to breakage in early-August storms.

High temperatures in late July and August hurt yields, though the crops did receive water—most overhead pivot irrigation systems were running 24 hours to keep soils moist and cool.

Hurricane Lee visited late in the season to finish a tough year for farmers. Lodging was significant with an average score of 48.6 percent. This site averaged a total yield of 129.2 bu. per acre and had a top performer that yielded 173.4 bu. per acre.

Warwick— Like most of the Delmarva peninsula, timing was the difference between getting a crop to harvest and having almost nothing to harvest. Timing here refers both to when the corn was planted and to when and if you got any rains.

Although yields were not bin busting, they were better than

F.I.R.S.T. Delaware Maryland North Corn Results

ALL SEASON TEST 105 - 115 Day CRM — **Top 30 of 42 tested**

Company/ Brand	Seed Brand	Technology	Insecticide Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Bridgeville	Chestertown	Middletown#	Sudlersville	Warwick	Westminster
Fielders Choice	NG6788	VT3	P250	111	**145.7**	20.3	5	1,000.60	1	**176.0**	**88.4**	104.4	135.9	**153.2**	175.0
Fielders Choice	NG6883*	VT3P	P250	116	144.0	21.7	18	983.90	3	160.5	73.2	70.5	150.3	144.7	**191.2**
Dyna-Gro	CX11113*	VT3P	P250	113	142.4	18.5	10	984.30	2	161.6	**78.1**	**119.2**	156.7	145.8	169.7
Channel	212-08VT3P	VT3P	P500,V	112	141.4	19.7	5	973.20	4	158.7	70.6	89.1	159.8	143.6	174.3
Hubner	H4822VT2P	VT2P	P500,V	114	140.3	22.4	5	956.10	5	**170.2**	41.8	95.1	**173.4**	142.5	173.7
Hubner	H6762GENSS	STX	P500,V	114	138.8	20.9	12	951.10	6	147.5	**79.7**	84.5	159.8	138.1	168.9
GROWMARK FS	6313VP3*	VT3P	P250	114	138.2	21.9	7	943.60	7	149.7	71.4	91.3	153.8	141.7	174.6
Augusta	A6164GT3000	3000GT	C250	115	137.9	21.6	15	942.50	8	151.4	**100.2**	54.6	126.5	136.8	174.5
Hubner	H4600VT2P	VT2P	P500,V	112	137.1	21.2	6	938.40	10	163.1	77.0	98.8	140.9	136.7	167.6
Fielders Choice	NG6840*	VT3	P250	115	136.9	20.3	11	940.20	9	137.1	**91.9**	74.5	147.4	141.8	166.1
Pioneer	33N58 GC	HX,RR2	C250	113	135.6	21.3	10	927.80	12	161.3	64.2	72.7	144.9	135.3	172.1
Channel	211-99VT3P	VT3P	P500,V	111	135.3	19.3	14	932.60	11	153.0	63.9	100.9	129.4	145.4	**185.0**
Channel	214-14VT3P	VT3P	P500,V	114	133.6	20.2	16	917.80	13	165.6	60.9	**126.1**	129.5	141.1	170.7
Hubner	H5709VT3P	VT3P	P500,V	114	133.0	21.5	1	909.40	15	140.3	53.9	**121.9**	**161.6**	138.6	170.8
Dyna-Gro	CX11114*	VT3P	P250	114	132.6	20.2	13	911.00	14	136.7	59.4	110.6	143.8	145.7	177.4
TA Seeds	TA778-28	STX	P250	115	131.7	20.4	3	904.10	16	147.7	**81.0**	104.3	140.8	120.6	168.4
Channel	212-17VT3P	VT3P	P500,V	112	131.6	20.4	10	903.40	17	159.2	39.6	83.7	128.4	**153.6**	177.3
Doeblers	674GRQ	3000GT	C250	112	131.0	20.7	16	898.30	18	136.1	66.2	103.6	143.8	133.7	175.2
Doeblers	RPM 633HXR^	HX,RR2	C250	110	129.3	20.9	13	886.00	20	144.7	40.7	96.2	134.3	149.6	177.4
NK Brand	N68B-3000GT GC	3000GT	C250	111	129.1	19.0	20	890.80	19	154.6	55.7	69.9	99.6	146.9	**188.5**
TA Seeds	TA717-20	3000GT	P250	114	127.4	21.9	19	869.80	22	120.7	**89.6**	80.9	122.7	128.1	175.9
Augusta	A5462GT3000	3000GT	C500,AV	112	127.2	21.4	13	870.00	21	129.7	68.9	72.7	129.4	135.6	172.2
TA Seeds	TA720-20	3000GT	P250	113	127.1	21.3	13	869.70	23	137.0	66.9	85.9	135.1	135.0	161.4
Augusta	A0720CBLL	CB/LL	C250	112	125.4	20.9	18	859.30	25	127.0	72.8	74.1	97.4	150.6	179.1
Augusta	A0606GTCBLL	GT/CB/LL	C500,AV	111	125.4	21.4	24	857.70	28	130.2	65.9	99.2	111.6	133.2	**186.2**
Masters Choice	MC-534	None	P250	107	124.4	18.7	21	859.30	26	133.1	42.0	92.5	117.0	149.4	180.7
Doeblers	RPM 725HRQ^	HXT,RR2	C250	115	124.4	21.3	17	851.20	30	140.1	35.1	76.5	145.5	123.4	177.9
Hubner	H6652GENSS	STX	P500,V	110	124.1	18.1	10	859.10	27	140.6	75.4	109.8	115.9	131.0	157.5
Masters Choice	MCT-6053	3000GT	P250	110	123.7	19.2	16	852.90	29	130.3	55.1	68.6	143.5	127.1	162.3
Dekalb	DKC52-59 GC	VT3	P250	102	123.5	15.8	13	862.00	24	113.4	**87.8**	74.8	110.5	138.0	167.8
Test Average =					**128.7**	**20.3**	**15**	**883.60**		**141.3**	**63.2**	**85.5**	**129.2**	**137.1**	**172.6**
LSD (0.10) =					16.0	1.1	11			24.5	14.7	26.8	31.2	14.0	11.7

= rejected results, not included in summary

previous years due to planting in mid-May instead of late April, plus a few small rainfalls kept corn maturing through July and August.

Stands were thinner than usual but for this year it was a benefit, allowing hybrids to get good ear development. Hurricane Lee did very little damage here and with the exception of a few hybrids most had little standability issues.

Westminster—This site is several miles further inland than other sites in this region and also received some timely showers; therefore, this plot was able to yield about 100 bu. per acre more than many other sites. Just like business, location is everything: less than 10 miles north, corn was averaging 50 to 75 bu. per acre.

This Westminster location usually is a stress location because of the soil type, but the past two years saw good rainfall and yields were above average for the Delmarva region. There was very little stalk disease and hybrids were only stressed a few days when temperatures rose to the 100-degree range. Overall, this plot allowed hybrids to maximize their genetics. Yields averaged 172.6 bu. per acre with a top producer yielding 191.2 bu. per acre.

Site Information						2011 Rainfall (inches)					
Delaware Maryland North						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Bridgeville	sandy loam	minimum	soybean	180	4/30	2.07	1.72	1.62	12.33	-2.89	7.83
Chestertown	silt loam	minimum	corn	182	5/30	2.19	0.94	1.85	18.83	-2.95	14.27
Middletown	sandy loam	conventional	pasture	220	5/3	2.84	1.74	4.44	18.90	0.14	15.43
Sudlersville	sandy clay	no-till	horseradish	205	5/6	1.85	2.09	1.67	17.90	-2.61	13.64
Warwick	sandy loam	no-till	wheat/soybean	195	5/23	2.89	2.15	4.60	20.52	0.30	17.05
Westminster	clay loam	no-till	wheat	165	5/28	2.18	1.01	3.62	5.13	-0.15	2.08

F.I.R.S.T. Illinois North Central Soybean Results

Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Delavan	silty clay loam	no-till	30	5/7	95.8	low	0.73
Macomb	silty clay loam	minimum	30	5/10	104.5	medium	0.26
Rossville	silty clay loam	conventional	30	5/19	139.4	low	2.60
Towanda	silty clay loam	no-till	30	5/9	104.5	medium	1.59

Eric Beyers, FIRST Manager

Soybean Stats:
Yield Range:54.4-63.9 bu. per acre
Yield Average: 60.5 bu. per acre
Top $ Per Acre: $766.20

Soybean Field Notes: Illinois North Central

Delavan—Dave Diekhoff, F.I.R.S.T. farmer member was very pleased to report that his field yielded an average of 62.8 bu. per acre, with a top performer producing 67.7 bu. per acre. This plot's planted seed population was uniformly spaced at 5.5 seeds per foot (2.18-inch seed spacing) on 30-inch rows. Harvested plants were 36 inches tall and were standing perfectly. Seed size ranged from 3,000 to 3,600 seeds per pound with good seed quality.

Macomb—Jerry Lewis, Macomb's F.I.R.S.T. farmer member reported that many soybean fields in the area were yielding between 60 and 70 bu. per acre. His harvested plants displayed good health and standability. His plot received abundant rains in May and June followed by spotted showers in July and August. There was little or no lower branching on the plants. Seed size was near 3,000 seeds per pound with good seed quality.

Rossville—Kevin Weinard, the F.I.R.S.T. farmer member for this location commented that the rainfall total for this field in July and August equaled only about 0.5 inch. Considering the climate, these yields were much better than expected, averaging 47.2 bu. per acre. Harvested plants here were between 36 and 42 inches tall and were standing perfectly. Harvested grain quality suffered to a poor rating. The harvested seed size was between 3,000 and 4,000 seeds per pound.

Towanda—Judson Stover, F.I.R.S.T. farmer member, was very pleased that his plot host field averaged 72 bu. per acre. Harvested plants here displayed good lower branching. Some varieties did show some minor lodging, but harvest was not affected. Harvested plants were between 36 and 42 inches tall. Harvested seed size varied from 2,800 to 4,000 seeds per pound. The seeds here were also of good quality.

2.9 - 3.6 Maturity Group — **Top 20 of 54 tested**

Company/ Brand	Seed Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Delavan	Macomb	Rossville	Towanda
Stone	2R2801	RR2Y	2.8	R	AC	**63.9**	12.7	0	766.20	**67.3**	**70.5**	**52.2**	65.4
Channel	3303R2	RR2Y	3.3	R	AC	**63.6**	11.7	2	763.20	63.4	69.0	**53.0**	69.0
Pfister	34R20	RR2Y	3.4	R	CM	63.5	12.8	0	761.40	65.1	68.4	46.2	**74.1**
Stone	2R3401	RR2Y	3.4	R	AC	63.3	12.7	0	759.90	64.1	65.6	47.3	**76.3**
Channel	3402R2	RR2Y	3.4	R	AC	63.3	12.7	0	759.30	62.5	68.8	**50.8**	71.0
Kruger	K2-3202	RR2Y	3.2	R	AC	62.5	12.8	1	749.40	64.1	69.6	48.1	68.0
Kruger	K2-2803	RR2Y	2.8	R	AC	62.3	12.6	0	747.00	64.5	67.9	48.4	68.2
Dyna-Gro	34RY36	RR2Y	3.6	R	AC	62.1	11.9	2	744.90	61.0	67.5	47.9	71.9
Channel	3205R2	RR2Y	3.2	R	AC	61.9	12.0	0	743.10	61.2	68.9	48.7	68.9
Dyna-Gro	37RY33	RR2Y	3.3	R	AC	61.8	13.0	0	741.30	61.4	68.5	49.4	67.8
Diener	3494CR2	RR2Y	3.4	R	AC	61.8	12.7	0	741.00	63.5	67.2	47.2	69.1
Steyer	3203R2	RR2Y	3.2	R	AC	61.7	12.5	1	740.70	64.9	64.3	49.5	68.2
FS Hisoy	HS 33A02	RR2Y	3.3	R	CM	61.6	13.0	1	738.90	63.9	68.2	48.1	66.1
Dairyland	DSR-2995R2Y	RR2Y	2.9	MR	CM	61.6	12.4	0	738.60	**67.2**	66.6	47.7	64.7
Dairyland	DSR-3232R2Y	RR2Y	3.2	R	CM	61.6	13.1	1	738.51	61.2	67.2	48.6	69.2
G2 Genetics	7362^*	RR	3.6	R	T6	61.5	12.4	1	738.30	64.2	66.6	46.4	68.9
Stone	2R3001	RR2Y	3.0	R	AC	61.5	12.3	0	738.00	63.1	65.9	47.4	69.6
Steyer	3204R2	RR2Y	3.2	MR	AC	61.5	12.4	0	737.40	65.9	65.4	49.9	64.6
Great Lakes	GL2949R2	RR2Y	2.9	R	AC	61.4	12.6	1	736.80	**67.7**	65.6	49.6	62.7
Diener	3012CR2	RR2Y	3.0	R	AC	61.4	12.3	1	736.50	63.3	66.2	49.7	66.3
Site Averages =						**60.5**	**12.5**	**1**	**726.04**	**62.8**	**65.8**	**47.2**	**66.3**
LSD (0.10) =						3.0	0.5	2		3.8	4.3	3.5	5.9

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Information compiled from recent university extension articles.

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

*Guidelines only – consult your state's extension nematologist.

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

Photos courtesy of J. Eisenback, Virginia Tech University.

Bayer CropScience

F.I.R.S.T. Illinois South Central Soybean Results

Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Clayton	silt loam	conventional	30	5/11	139.4	low	0.53
Forsyth	silty clay loam	conventional	30	5/13	122.0	low	0.82
Tuscola	silty clay loam	no-till	30	5/19	139.4	medium	1.69
Virden	silt loam	minimum	30	5/12	87.1	medium	0.37

Eric Beyers, FIRST Manager

Soybean Stats:
Yield Range: 41.2-48.6 bu. per acre
Yield Average: 44.8 bu. per acre
Top $ Per Acre: $583.20

Soybean Field Notes: Illinois South Central

Clayton—Due to rains in May and June, most of F.I.R.S.T. farmer member Terry Smith's soybean planting was delayed enough for him to opt for "no plant" crop insurance. After seeing the poor yields, he felt that the "no plant" was a better choice this season. We were lucky enough to get this trial planted the same day as the corn trial, on May 11. Harvested plant heights were between 18 and 30 inches.

Forsyth—Jim Cullison, F.I.R.S.T. farmer member for this location said his farm received 18 inches of rain in June alone. Portions of May were also very wet on this test site. This farm experienced high temps of 100-plus degrees for two to three weeks. It also missed most of the July and August rains. The plants were between 24 and 36 inches tall at harvest. Seed quality was fair and the seed size varied between 3,300 and 4,500 seeds per pound.

Tuscola—This soybean trial site underwent a great deal of climatic stress. After the May 19 planting date, the plot received 15-plus inches of rain in June alone. During July and August it experienced record heat for weeks, plus it missed some local rains. In spite of that, the harvested seed quality was very good. Plant heights here ranged from 24 to 30 inches. Lower-plant branching was non-existent here.

Virden—Roger Ladage, F.I.R.S.T. farmer member, says most of his soybeans were yielding around mid-50s bu. per acre. He is still waiting on 25 acres of replanted soybeans to mature for harvest. May and June rains were devastating here. July through September gave high temperatures and drought. The plants here were 36 to 42 inches tall at harvest and seed quality was fair with variable size.

3.4 - 4.1 Maturity Group — **Top 20 of 54 tested**

Company/ Brand	Seed Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Clayton	Forsyth‡	Tuscola	Virden
Diener	3955CR2	RR2Y	3.9	R	AC	**48.6**	10.9	0	583.20	**43.1**	**51.0**	**48.2**	52.1
Diener	4025CR2	RR2Y	4.0	R	AC	47.8	12.8	0	573.30	39.6	**51.3**	47.6	52.6
FS Hisoy	HS 38A02	RR2Y	3.8	R	CM	47.0	10.7	0	564.00	**43.5**	46.3	47.4	50.8
Great Lakes	GL4059R2	RR2Y	4.0	R	AC	47.0	12.8	0	563.70	40.2	46.9	46.0	54.8
Channel	3701R2	RR2Y	3.7	R	AC	46.9	12.0	0	563.10	38.2	**49.7**	46.7	53.1
Kruger	K2-4202	RR2Y	4.1	R	AC	46.9	13.2	0	562.66	41.0	**49.7**	45.5	51.4
Channel	4102R2	RR2Y	4.1	R	AC	46.7	13.0	0	559.80	39.1	**51.1**	47.0	49.4
Kruger	K2-3802	RR2Y	3.8	R	AC	46.5	10.6	0	557.40	**43.1**	44.4	45.6	52.7
FS Hisoy	HS 36A12	RR2Y	3.6	R	CM	46.5	11.4	0	557.40	40.0	45.0	47.3	53.5
Great Lakes	GL3879R2	RR2Y	3.8	R	AC	46.3	10.8	0	555.90	**42.3**	47.2	45.3	50.5
Steyer	3603R2	RR2Y	3.6	R	AC	46.3	11.2	0	555.90	40.5	45.4	44.0	**55.4**
Stone	2R3801	RR2Y	3.8	R	AC	46.2	10.4	0	554.40	**42.2**	42.7	45.6	54.3
Diener	3712CR2	RR2Y	3.7	R	AC	46.2	12.9	0	554.10	39.7	48.7	42.9	53.4
Kruger	K2-4102	RR2Y	4.1	R	AC	46.2	12.9	0	554.10	40.4	44.9	46.8	52.6
FS Hisoy	HS 38A12	RR2Y	3.8	R	CM	46.1	12.4	0	553.50	39.8	41.6	**48.7**	54.4
Kruger	K2-3701	RR2Y	3.6	R	AC	46.1	11.4	0	553.20	38.1	49.2	43.3	53.8
Pfister	38R25	RR2Y	3.8	R	CM	45.8	10.4	0	549.90	40.4	43.1	45.7	54.1
Steyer	3404R2	RR2Y	3.4	R	AC	45.8	12.3	0	549.90	40.5	40.9	43.6	**58.3**
FS Hisoy	HS 39A02	RR2Y	3.9	R	CM	45.8	13.1	0	548.95	39.0	48.0	45.3	50.7
LG Seeds	C3770R2	RR2Y	3.7	R	AC	45.7	10.6	0	548.40	**41.6**	47.0	43.7	50.5
Site Averages =						**44.8**	**12.2**	**0**	**538.01**	**38.6**	**44.0**	**44.7**	**52.1**
LSD (0.10) =						3.0	1.1	ns		2.9	5.3	3.5	3.3

‡ = 2 replications

F.I.R.S.T. Illinois South Soybean Results

Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Belleville	silt loam	conventional	30	6/3	122.0	medium	1.28
Du Quoin	clay loam	no-till	30	6/1	122.0	high	0.87
Shumway	silt loam	conventional	30	5/24	122.0	low	0.75
Vandalia	silty clay loam	conventional	30	6/2	139.4	medium	1.12

Eric Beyers, FIRST Manager

Soybean Stats:
Yield Range: 44.1-54.8 bu. per acre
Yield Average: 50.5 bu. per acre
Top $ Per Acre: $657.60

Soybean Field Notes: Illinois South

Belleville—This site had the shortest plants noted for this group of varieties. Harvested plants were between 24 and 36 inches. Don Barttlebort, F.I.R.S.T. farmer member for this location says that it did not rain much in July and August. Despite their height, plants were podded heavily and yielded exceptionally. Harvested seed was between 3,300 and 3,600 seeds per pound with exceptional grain quality. The average yield here was 59.8 bu. per acre with a top performer yielding 67.4 bu. per acre.

Du Quoin—Don Polczynski said his field received a good rain the week of July 4 but that there was no rain after that until September. Late July and August were dry, and high heat took its toll. Harvested seed sizes were variably smaller, ranging from 3,000 to 4,000 seeds per pound. Harvested plant height was 48 inches. The seed quality was good, as were the yields, considering the climate.

Shumway—David Soltwedel, F.I.R.S.T. farmer member, commented that his field around the plot averaged 47 bu. per acre. Harvested plants had excellent growth of nearly 50 inches tall, but late-season heat and drought conditions took their toll. Harvested seed size was between 3,800 and 4,200 seeds per pound. Seed pods were abundant, but the climate reduced the fill. Seed quality was good.

Vandalia—This site's plants were monstrous! Heights averaged between 48 and 60 inches, which made harvesting quite the challenge. Although vegetative growth was excessive, seed development suffered. Most plants had three-bean pods but contained smaller seeds, ranging in size from 3,500 to 4,500 seeds per pound. This site had no lodging. Ronnie Sloan, Vandalia's F.I.R.S.T. farmer member says that in June this site had 19 inches of rain!

4.0 - 4.7 Maturity Group — **Top 20 of 42 tested**

Company/ Brand	Seed Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Belleville	Du Quoin	Shumway	Vandalia
Dyna-Gro	39RY43	RR2Y	4.3	R	AC	**54.8**	11.1	0	657.60	60.9	**51.0**	**51.6**	**55.7**
Stone	2R4302	RR2Y	4.3	R	AC	**54.2**	11.1	0	650.40	62.0	49.1	**49.6**	**56.1**
LG Seeds	C4411R2	RR2Y	4.4	R	AC	53.4	11.1	0	640.20	**63.4**	47.7	44.9	**57.4**
Pfister	43R29	RR2Y	4.3	R	CM	52.9	11.4	0	634.80	58.2	47.6	**48.8**	**57.0**
Steyer	4203R2	RR2Y	4.2	MR	AC	52.8	11.1	0	633.60	59.9	46.7	**48.7**	**55.9**
Kruger	K2-4502	RR2Y	4.5	R	AC	52.6	11.4	0	631.50	61.5	49.7	45.7	53.6
Steyer	4701R2	RR2Y	4.7	MR	AC	52.6	11.5	0	631.20	62.1	**51.2**	45.2	51.9
Dyna-Gro	31RY45	RR2Y	4.5	R	AC	52.4	11.3	1	628.80	**65.1**	48.3	47.3	48.9
FS Hisoy	HS 40A12	RR2Y	4.0	R	CM	52.3	11.0	0	627.90	60.3	44.8	**49.3**	**54.9**
Stone	2R4201	RR2Y	4.2	R	AC	52.1	11.5	0	625.20	56.7	49.2	47.8	**54.7**
FS Hisoy	HS 45A12	RR2Y	4.5	R	CM	52.1	11.5	0	624.60	58.1	49.1	46.2	**54.8**
Channel	4205R2	RR2Y	4.2	R	AC	52.0	11.4	0	624.30	61.4	47.0	**49.1**	50.6
Stone	2R4402	RR2Y	4.4	R	AC	51.9	11.3	0	622.80	62.2	49.5	46.4	49.5
FS Hisoy	HS 42A12	RR2Y	4.2	R	CM	51.7	11.2	0	620.70	58.3	46.0	48.3	54.3
Kruger	K2-4102	RR2Y	4.1	R	AC	51.6	11.5	0	619.20	60.5	45.8	**50.7**	49.4
LG Seeds	C4625R2	RR2Y	4.6	S	AC	51.6	11.5	0	619.20	**67.4**	42.4	45.6	51.0
Lewis	441R2	RR2Y	4.4	R	AC	51.4	11.5	0	617.10	61.6	49.0	47.7	47.4
Stone	2R4500STS	RR2Y,STS	4.5	S	AC	51.4	11.6	0	617.10	**66.8**	45.7	42.4	50.8
Channel	4305R2	RR2Y	4.3	R	AC	51.1	11.0	0	613.20	61.0	49.4	44.3	49.7
Lewis	412R2	RR2Y	4.1	R	AC	50.9	11.6	0	611.10	61.8	41.5	**49.0**	51.4
Site Averages =						**50.5**	**11.4**	**0**	**605.51**	**59.8**	**46.8**	**45.5**	**49.7**
LSD (0.10) =						3.5	0.3	1		3.0	3.6	3.0	5.0

F.I.R.S.T. Indiana Central Soybean Results

Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Greensburg	silt loam	no-till	15	5/21	n/a	n/a	2.12
Otterbein	silt loam	no-till	15	5/20	148.3	low	7.19
Windfall	silty clay loam	conventional	15	5/22	158.9	low	3.16
Wingate	silty clay loam	no-till	15	5/19	157.7	n/a	2.68

Rich Schleuning, FIRST Manager

Soybean Stats:
Yield Range: 71.5-81.0 bu. per acre
Yield Average: 76.6 bu. per acre
Top $ Per Acre: $931.12

Soybean Field Notes: Indiana Central

Greensburg—This location was planted on May 21, before the surrounding fields were. When burndown was applied to the surrounding fields in June, this test was accidentally sprayed with Gramoxone Inteon, killing all emerged soybean plants. Due to the late calendar date, the test was not replanted and data was lost.

Otterbein—The yield here was better than expected, as this location went without rain for seven weeks. Late rain helped make the yields we harvested. They averaged 66.9 bu. per acre and had a top performer producing 73.6 bu. per acre. The beans were dry, and some top pods even split open. All varieties were standing straight, which made for a nice harvest. There was some light insect pressure late in the season that damaged the top pods.

Windfall—On May 28, just six days after planting, this location received 4 inches of rain with some hail as well. The next week it got hit with hail again, accompanied by winds of 70 mph. High heat and little to no rainfall became the norm during midsummer. Rains returned just in time for pod fill during August and September. In spite of these obstacles, yields averaged 79.4 bu. per acre with a top producer yielding 85.9 bu. per acre.

Wingate—The Wingate test site pulled through a tough year. The plot was planted on May 19, the earliest one for this region Some pods contained only two beans due to the extreme heat at fill, but the top of the plant made up the difference. There was insect damage to some upper pods. Varieties were standing nicely with slight lodging. Some varieties still held some dry leaves at harvest. Steve Stine, F.I.R.S.T. farmer member commented on how heavy the test weight has been on beans.

3.1 - 3.8 Maturity Group — **Top 20 of 36 tested**

Company/ Brand	Seed Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Greensburg	Otterbein	Windfall	Wingate
Steyer	3402R2	RR2Y	3.4	MR	AC	81.0	10.9	0	931.12	Data lost due to herbicide injury	70.2	82.5	**90.2**
Stewart	3412R2	RR2Y	3.4	MR	AC	80.6	10.7	0	927.28		70.4	82.9	88.6
Specialty	3494CR2	RR2Y	3.4	R	AC	80.5	11.0	0	925.75		70.1	80.0	**91.4**
Channel	3402R2	RR2Y	3.4	R	AC	80.1	10.9	0	920.77		64.5	83.8	**91.9**
Specialty	3712CR2	RR2Y	3.7	R	AC	79.7	10.9	0	916.17		**73.1**	78.3	87.6
Ebberts	2342RR2*	RR2Y	3.4	R	AC	79.4	10.8	0	913.10		69.9	81.8	86.5
Stewart	3300R2	RR2Y	3.3	MR	AC	79.3	10.5	0	912.33		71.1	79.0	87.9
Ebberts	2322RR2*	RR2Y	3.2	R	AC	79.2	10.6	0	911.18		**73.1**	80.8	83.8
Ebberts	2300RR2	RR2Y	3.1	R	AC	78.6	11.4	0	903.90		64.8	**85.6**	85.4
Channel	3105R2	RR2Y	3.1	R	AC	78.2	10.8	0	898.92		69.2	82.4	82.9
Stewart	3800R2	RR2Y	3.8	MR	AC	78.0	11.3	1	897.38		67.1	78.0	89.0
Channel	3701R2	RR2Y	3.7	R	AC	78.0	11.3	0	897.00		**73.6**	81.4	79.0
Channel	3303R2	RR2Y	3.3	R	AC	77.7	10.7	0	893.17		65.4	83.6	84.0
Ebberts	2372RR2*	RR2Y	3.5	R	AC	77.3	11.2	0	888.95		67.0	79.9	85.0
Ebberts	2312RR2*	RR2Y	3.1	R	AC	77.1	11.1	0	887.03		63.1	77.8	**90.5**
Stewart	3400R2	RR2Y	3.4	MR	AC	77.1	10.6	0	886.65		70.0	80.2	81.1
Specialty	3311CR2	RR2Y	3.2	MR	AC	77.1	11.0	0	886.27		69.3	79.7	82.2
Specialty	3822CR2	RR2Y	3.8	R	AC	77.1	11.5	0	886.27		66.6	78.6	86.0
Seed Consultants	SCS 9330RR^	RR	3.3	R	T2,G	76.8	11.0	0	882.82		68.8	81.2	80.3
Steyer	3602R2	RR2Y	3.6	MR	AC	76.5	11.4	0	880.13		69.0	76.4	84.2
Site Averages =						**76.6**	**11.1**	**0**	**880.51**		**66.9**	**79.4**	**83.4**
LSD (0.10) =						5.6	0.7	1			6.2	4.7	6.3

F.I.R.S.T. Mid-Atlantic Soybean Results

Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Lebanon	clay loam	no-till	15	6/2	155.9	n/a	7.52
Hanover	silty clay loam	conventional	15	5/28	144.9	n/a	11.63
Middletown	loamy sand	no-till	15	5/30	143.7	n/a	18.90
Preston	sand	no-till	15	5/19	143.4	n/a	17.41

Rob Kauffman, FIRST Manager

Soybean Stats:
Yield Range: 45.0-56.8 bu. per acre
Yield Average: 51.8 bu. per acre
Top $ Per Acre: $698.70

Soybean Field Notes: Mid-Atlantic

Hanover—Some of the extremely dry summer conditions caused the crops here to suffer. The soybean plants here were very short with the pods close to the ground. We did experience some rains in August and they did increase the size of the beans. This site averaged a yield of 44.5 bu. per acre with a top performer of 54.3 bu. per acre.

Lebanon—This plot had an excellent year for rainfall amounts it received. Heavy rains before leaf drop caused some varieties to lodge severely, but yields for those severely lodged plots were only slightly lowered. This is a great plot to assess stalk/root strength and yield across these soybean varieties.

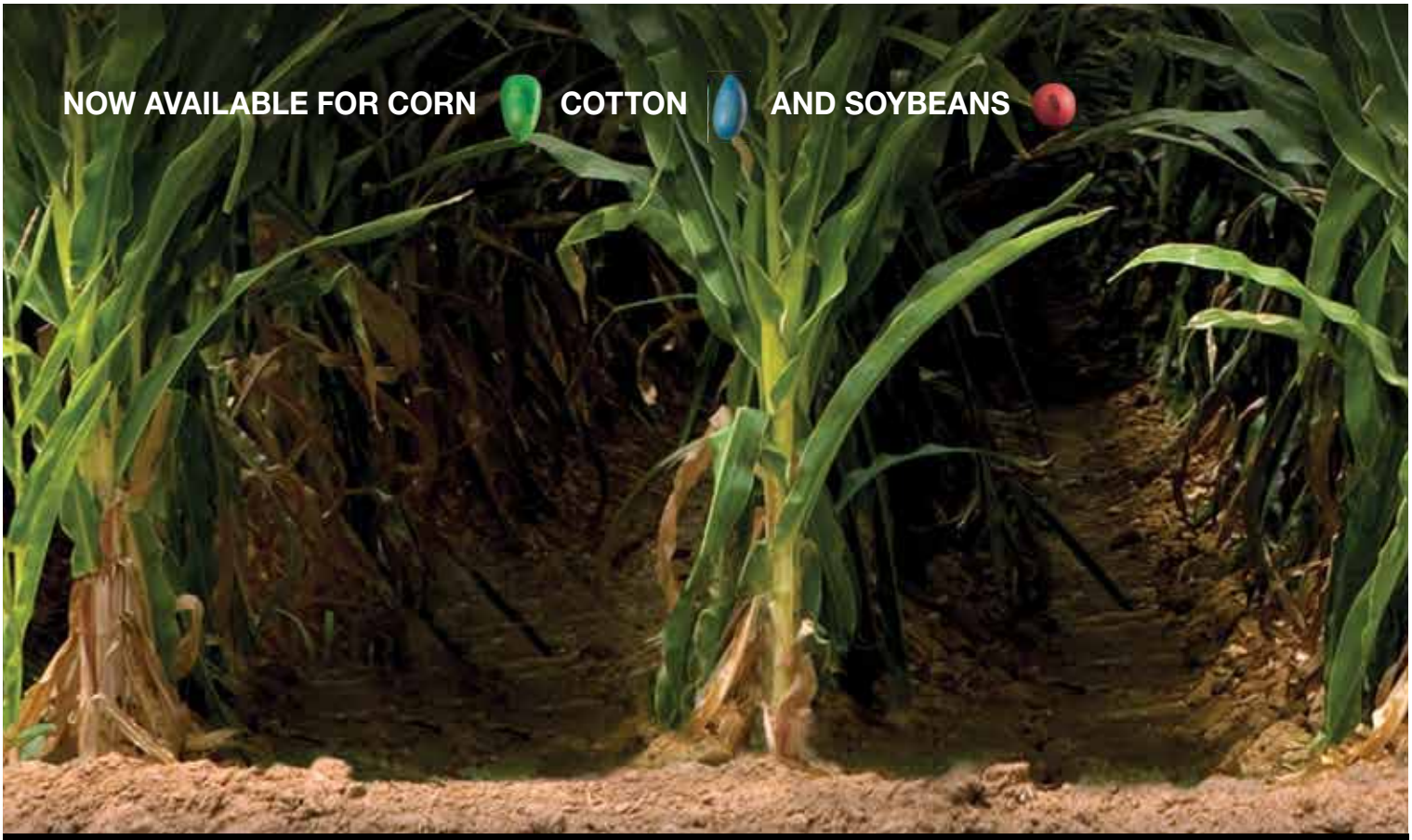
Middletown—Summer weather conditions were extremely hot and dry. Adequate moisture was received to get good emergence and early growth; however, the hot and dry months of July and early August did cause a large amount of stress to all of the varieties here. Plant heights were in the range of 18 to 24 inches tall. Stand was not an issue on this test plot and there was very little shattering observed. The yields were good considering everything that this site experienced this season.

The production at this site averaged a yield of 50.4 bu. per acre with a top performer producing a yield of 61.7 bu. per acre.

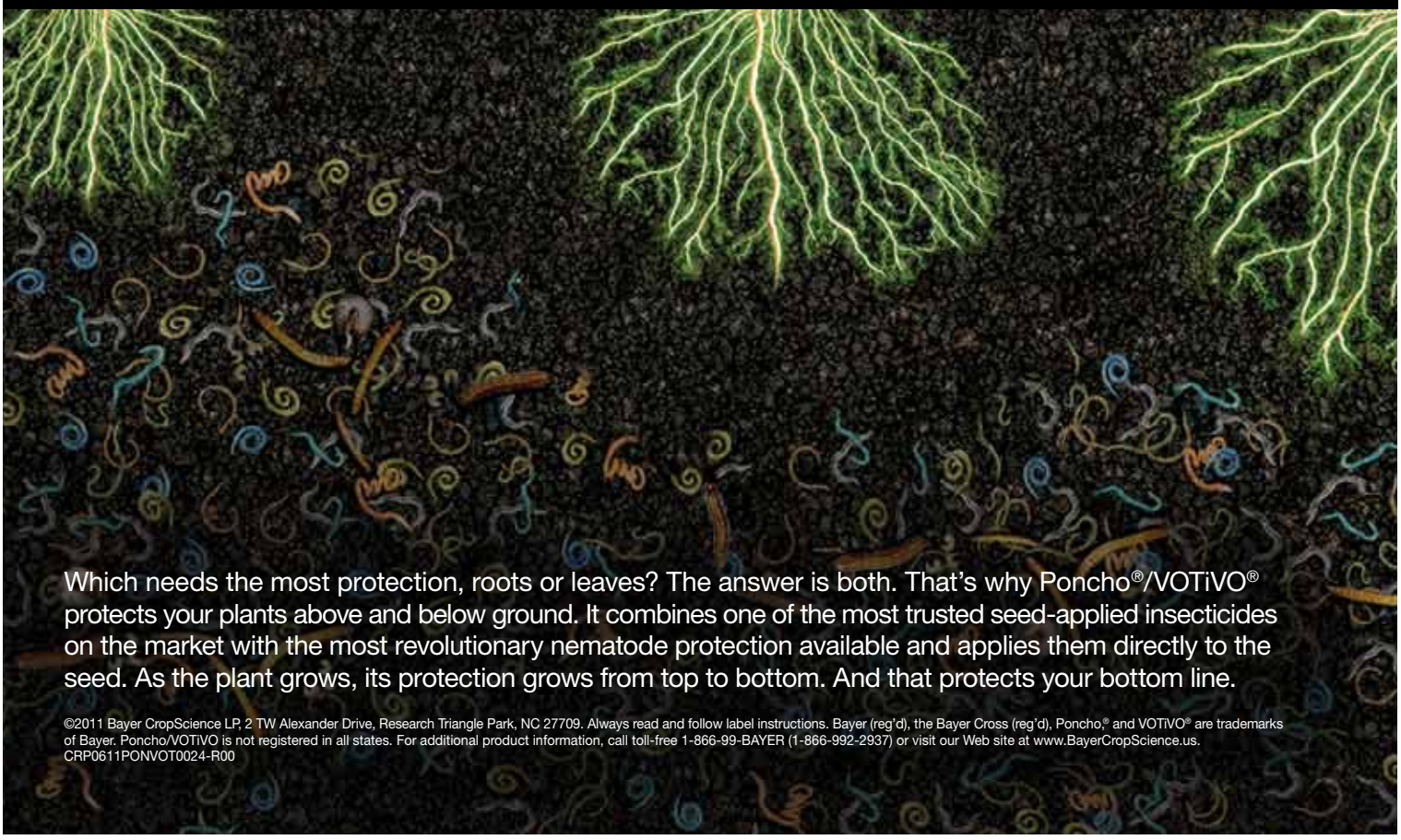
Preston—The Preston test site is an irrigated test site that also received an additional 4 inches of rain throughout the summer months this year. The extreme weather that was brought in from Hurricane Irene caused some of the varieties tested here to lodge severely. The production here at the Preston test site averaged a yield of 57 bu. per acre, with a top performer at this site producing a yield of 72.1 bu. per acre. When all things are considered, this was an excellent plot in terms of both yield and standability.

3.4 - 4.1 Maturity Group — **Top 24 of 24 tested**

Company/ Brand	Seed Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Hanover	Lebanon	Middletown	Preston
NK Brand	S36-B6 GC	RR	3.6	S	CM	56.8	15.5	17	698.70	**52.1**	53.4	**61.7**	60.0
Channel	3905R2	RR2Y	3.9	R	AC	56.0	16.1	5	687.82	43.7	**59.1**	**58.6**	**62.5**
Channel	4102R2	RR2Y	4.1	R	AC	55.7	15.7	3	684.86	48.3	**59.8**	49.3	**65.4**
TA Seeds	TS4129R2	RR2Y	4.1	R	A,G	55.4	16.3	7	680.23	**54.3**	57.3	54.4	55.5
Channel	3701R2	RR2Y	3.7	R	AC	54.4	15.8	4	668.79	39.4	54.0	52.1	**72.1**
Mid-Atlantic Seed	MAS3802NRR*	RR	3.8	MR	AC	54.1	15.8	3	665.16	50.3	**61.5**	48.2	56.4
Dyna-Gro	37RY39	RR2Y	3.9	R	AC	54.0	15.6	20	664.40	48.6	55.2	**56.7**	55.6
Hubner	H39-12R2	RR2Y	3.9	R	AC,E	54.0	16.0	12	663.99	**51.8**	**60.7**	46.0	57.6
Hubner	H34-12R2	RR2Y	3.4	R	AC,E	53.4	16.0	7	656.29	46.0	56.1	49.6	61.9
TA Seeds	TS3989RS	RR,STS	3.9	R	A,G	52.9	16.1	8	650.34	**52.3**	56.9	46.2	56.3
Channel	3402R2	RR2Y	3.4	R	AC	52.4	15.9	7	643.82	45.5	58.2	50.5	55.3
TA Seeds	TS4299RS	RR,STS	4.2	R	A,G	52.1	15.6	8	640.14	45.3	50.1	52.1	60.7
Doeblers	RPM DB3809RR^	RR	3.8	R	A,G	51.8	16.0	5	636.03	44.1	57.4	50.8	54.7
Hubner	H36-12R2	RR2Y	3.6	R	AC,E	50.8	15.9	7	624.79	42.1	55.2	46.2	59.8
Mid-Atlantic Seed	MAS3955RR	RR	3.9	R	AC	50.6	16.4	4	621.52	38.7	49.5	48.5	**65.7**
Mid-Atlantic Seed	MAS3781NRR	RR	3.7	R	AC	50.5	15.6	9	621.10	41.8	51.7	50.5	58.0
Hubner	H34-11R2	RR2Y	3.4	R	AC,E	50.5	16.0	5	620.39	37.8	55.6	52.1	56.4
Dyna-Gro	36RY38	RR2Y	3.8	R	AC	50.1	15.2	6	616.53	44.0	53.8	48.9	53.7
Dyna-Gro	34RY36	RR2Y	3.6	R	AC	49.6	16.5	9	608.52	36.3	58.9	49.3	53.7
TA Seeds	TS3829R2	RR2Y	3.8	R	A,G	49.4	16.5	11	606.68	45.6	53.2	47.7	51.1
Site Averages =						**51.8**	**15.9**	**10**	**637.20**	**44.5**	**55.4**	**50.4**	**57.0**
LSD (0.10) =						5.4	0.6	12		7.2	3.7	4.2	5.0



Plant it and the



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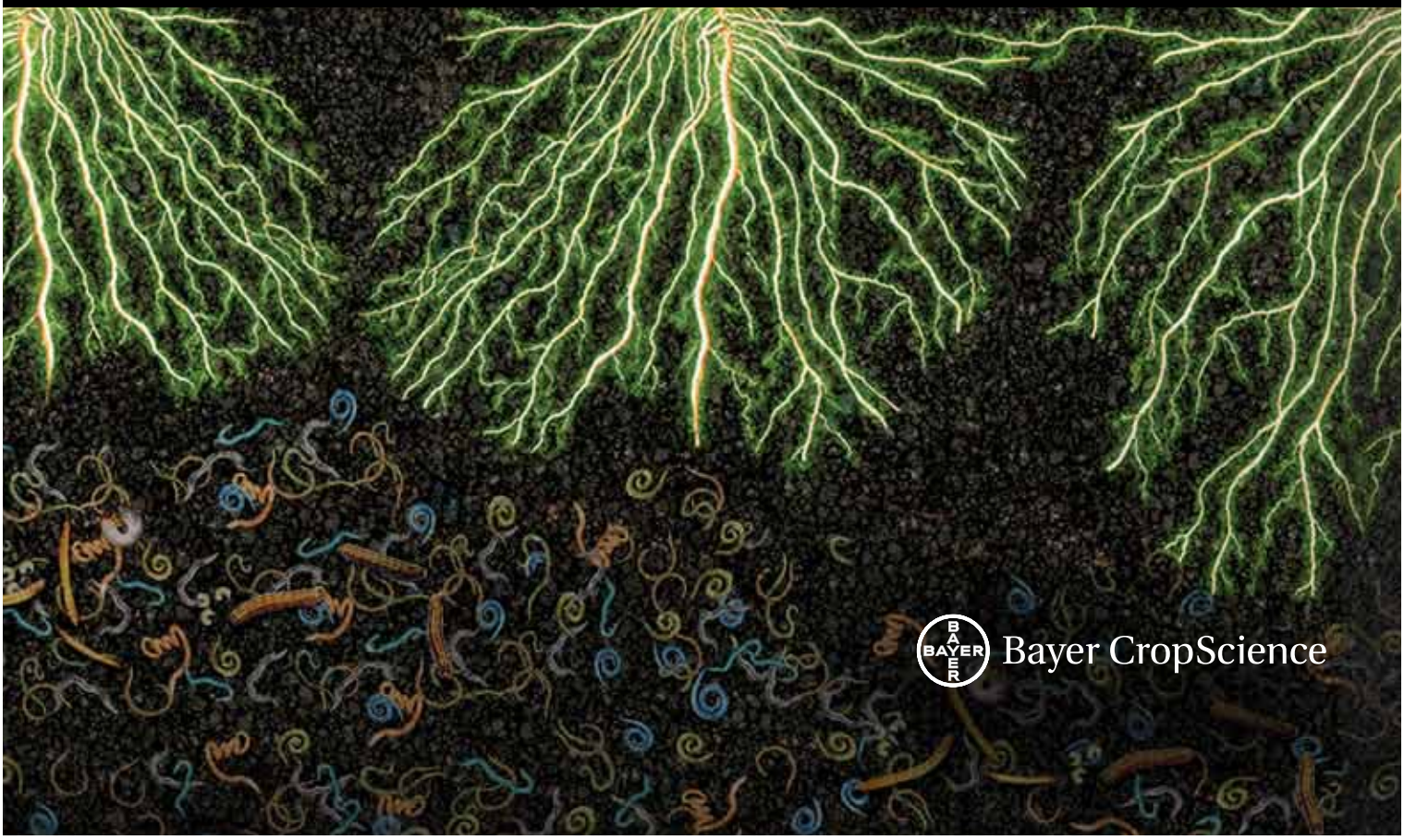

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