

Great Lakes Edition

FIRST

Farmer's
Independent
Research of
Seed
Technologies

Evaluating Corn Hybrids and Soybean Varieties



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



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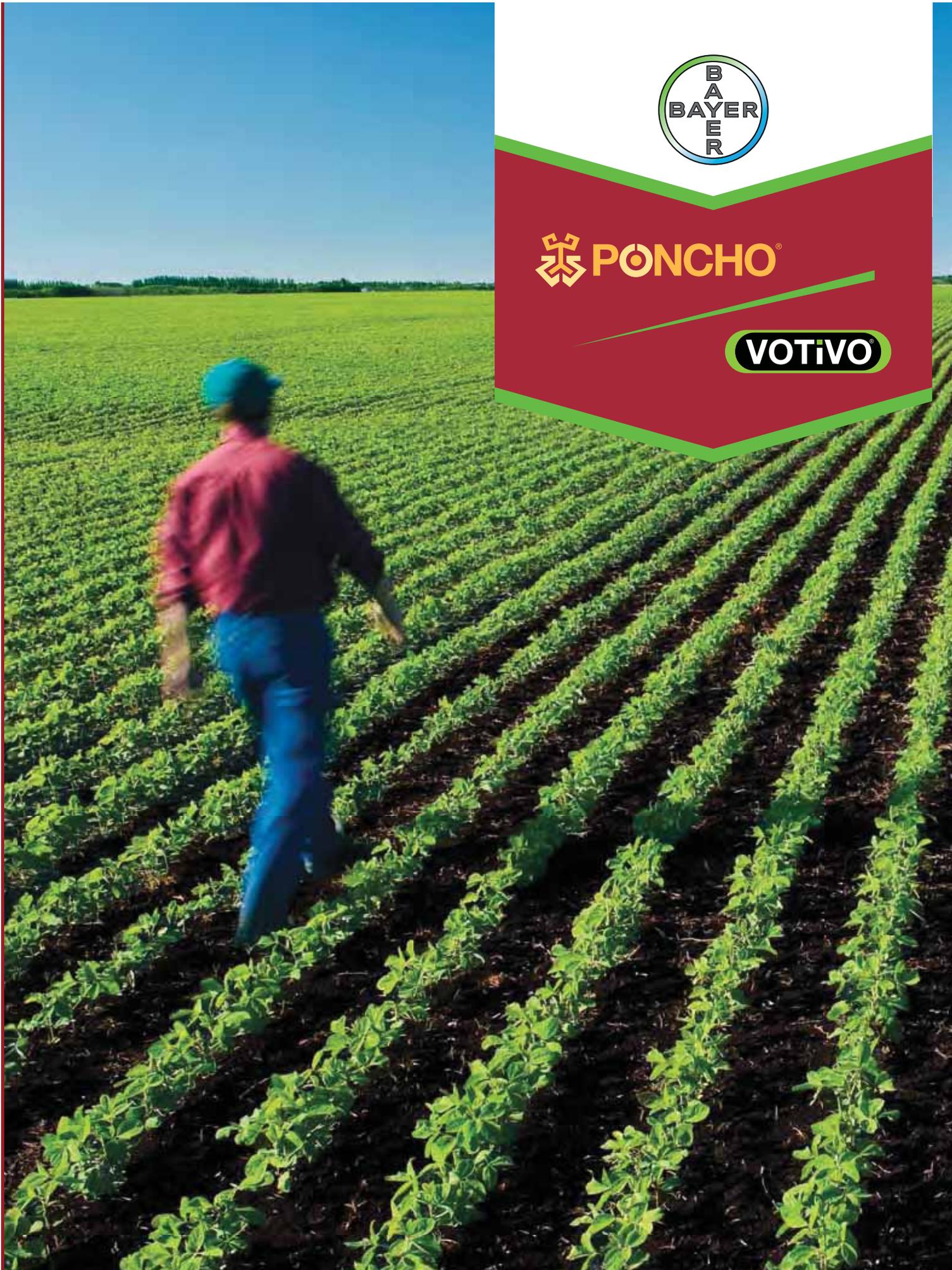
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How to Interpret F.I.R.S.T. Trials

Farmer's Independent Research of Seed Technologies (F.I.R.S.T.) is an independent corn and soybean yield testing service. We compare product yield performance in grower fields across 15 states: Delaware, Illinois, Indiana, Iowa, Kansas, Maryland, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Pennsylvania, South Dakota and Wisconsin. In 2012, we compared yields of 914 corn grain and 679 soybean products. In total, more than 72,486 plot strips spread across 298 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. Exceptions are check products (denoted by 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), 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" rows or four 30" rows). Typically the center two corn rows and all

soybean rows are used to measure yield.

Regions have been established to provide similarity by geography and crop maturity. Corn and soybean products within a 10-day and 0.7-group maturity range, respectively, are pooled into a single all-season test or split into early- and full-season tests depending upon entry volume. All seed products entered in a region are seeded at each of six corn 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 non-uniform plot areas.

Soybean cyst nematode (SCN) levels are reported for most soybean test sites. Egg counts are taken per 100 ml of soil. Sites with up to 2,000 eggs, 2,000 to 12,000 eggs or 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 corn and Top 20 soybean products on yield within a region. Grain yield, grain moisture and lodging are averaged from all locations and presented along with individual site yield results.

Regional summaries include least significant difference (LSD) for the region and individual site

Footnotes and Abbreviations:

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

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

Brand names ending with GC are grower chosen comparison products.

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

identifies rejected results omitted from summary

‡ identifies locations with 2 replications

§ identifies United Soybean Board sponsored entries

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

ns – not significant

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

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.

Technologies

3111	Agrisure® Viptera™ 3111
3122	Agrisure® 3122
4011	Agrisure® 4011
3000GT	Agrisure® 3000GT
AM1	Optimum® AcreMax® 1
AMX	Optimum® AcreMax® Xtra
CB/LL	Agrisure® CB/LL
CB/LL/RW	Agrisure® CB/LL/RW
Conv	Conventional, non-GMO
GT	Agrisure® GT
GT/CB/LL	Agrisure® GT/CB/LL
HX	HERCULEX® I Insect Protection
HXT	HERCULEX® XTRA Insect Protection
LL	LibertyLink® herbicide tolerance
OI	Optimum® Intrasect™
RR	Roundup Ready® Soybeans
RR Lo Lin	Roundup Ready® Low Linolenic acid soybeans
RR2	Roundup Ready® Corn 2
RR2Y	Genuity® Roundup Ready 2 Yield®
STS	STS® herbicide tolerance
STX	SmartStax®
STX-R	SmartStax® Refuge Corn Blend
VT2P	Genuity® VT Double PRO™
VT2P-R	Genuity® VT Double PRO® RIB Corn Blend
VT3	YieldGard VT Triple®
VT3P	Genuity® VT Triple PRO™
VT3P-R	Genuity® VT Triple PRO® RIB Corn Blend

Seed Treatments

A	Allegiance®
Ac	Acceleron®
Am	ApronMaxx®
Ap	Apron XL®
Avc	Avicta® Complete Corn
C2, C5, C1	Cruiser® @ 0.25, 0.5 and 1.25 mg ai/seed
Ce	Cruiser® Extreme
CMB	CruiserMaxx® Beans
D	Dynasty®
Es	Escalate®
Ex	Excalibre™
G	Gaucho®
I	Inovate™ System
Mq	Maxim® Quattro
Mx	Maxim® XL
O	Optimize®
P2, P5, P1	Poncho® at 0.25, 0.5 and 1.25 mg ai/seed
Pr	Protinus™
R	Raxil®
Rc	Rancona®
S	Stamina®
SDPI	Servo™ DPI
SS+	SoyShield™ Plus
SStd	SureStand™
T	Trilex®
T2	Trilex® 2000
T6	Trilex® 6000
Th	thiabendazole
V	VOTIVO®
Z	zinc

Great Lakes Edition

Covering Wisconsin, Michigan,
portions of Illinois, Indiana and Ohio

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

Contents

6 Season Overview

A look at the target trends

CORN RESULTS

8 WICE Wisconsin Central	22 MITH Michigan Thumb
12 WISO Wisconsin South	24 MISO Michigan South
14 NCTS North Central Tri-State	26 INNO Indiana North
16 ILNO Illinois North	28 OHNW Ohio Northwest

SOYBEAN RESULTS

30 WISO Wisconsin South
32 NCSL North Central State Line
33 ILNO Illinois North
34 INNO Indiana North
35 OHNW Ohio Northwest

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

There are four 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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Season Overview Statistics



Corn Yield

	2012 vs. 2011		(bu. per acre)				
	% change	bu. (+/-)	2012	2011	2010	2009	2008
Minimum	4.9	0.3	6.4	6.1	30.1	84.6	18.8
Average	-8.8	-15.8	163.0	178.8	191.9	202.4	191.9
Maximum	3.5	9.8	286.8	277.0	299.6	310.6	281.0

Soybean Yield

	2012 vs. 2011		(bu. per acre)				
	% change	bu. (+/-)	2012	2011	2010	2009	2008
	-72.2	-17.1	6.6	23.7	4.4	20.7	18.3
	-13.5	-7.7	49.3	57.0	59.6	54.0	51.9
	2.4	2.2	94.3	92.1	91.2	80.3	90.9

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

The 2012 growing season is one most farmers will never forget. Overall, corn averaged lower yields than any year since 2008. Good yields were comparable to most good years. In these areas, growers achieved their most profitable year ever by selling high-yielding crops with commodity prices at all-time-high levels. Other growers would like to forget that the drought of 2012 happened. Crop yields were very low but, fortunately, the high commodity prices helped soften the blow a bit.

Corn yields were outstanding in portions of North Dakota, South Dakota, Minnesota, northern Iowa and Pennsylvania. These areas had either timely rainfalls or soils with excellent water-holding capacities to deliver the yield. Ample summer heat sped along crop maturation too. Harvest at Minnesota and northern Iowa F.I.R.S.T. locations was completed well ahead of normal. With the exception of some Minnesota locations where saturated spring soils hampered seedling establishment, yield data quality was outstanding. And I am still impressed by the Pennsylvania corn yields; they emulated a typical Midwest bumper crop year.

The drought of 2012 really hurt eastern Nebraska, northern Missouri and southern portions of Illinois and Indiana. F.I.R.S.T. did not obtain acceptable corn yield results from 31 of the 66 tests in these areas. We have never experienced this level of crop failure before. It was not unusual for corn yields to range from zero to 75 bu. per acre in these situations. Once corn yields dip below 40 bu.

Corn Technologies Tested

Traits Tested	(% of entries containing traits)			
	2012	2011	2010	2009
Conventional	1.1	0.9	1.0	1.2
Glyphosate	98.8	98.8	98.0	94.2
LibertyLink	40.9	42.6	32.4	19.1
Corn Borer	96.9	96.5	94.2	96.2
Rootworm	84.4	86.2	88.8	90.4
Triple Stack*	84.3	86.0	88.2	89.0
*Triple Stack = CB + RW + herbicide tolerant trait				
Refuge Blends Tested				
Blend	10.1	0.9	—	—
Non-Blend	89.9	99.1	—	—
Key Technologies Tested				
VT3P	45.1	30.8	11.3	0.0
STX	13.5	14.2	9.5	0.0
3000GT	9.4	10.7	9.4	3.8
VT3	6.9	20.5	50.4	74.7
HX,RR	5.6	5.7	3.9	2.1
HXT,RR2	4.1	7.0	7.9	8.6
VT2P	2.5	2.6	0.1	0.0
OI,RR	2.4	0.0	0.0	0.0
GT/CB/LL	2.1	1.9	0.9	1.4
3111	1.7	2.7	0.0	0.0

— items not available for testing

per acre, it is impossible to accurately measure grain moisture and data quality diminishes drastically.

Drought impact hurt corn yield and data quality across central portions of Iowa, Illinois, Indiana and Ohio. The worst-case corn yield and data quality was just as severe but happened less frequently. Results from 11 tests in these areas were unacceptable due to drought.

Soybean yield levels were well below the normal previous-year levels but were generally better

Soybean Technologies Tested

	(% of entries)			
	2012	2011	2010	2009
Seed Treatment Use				
Treated	88.3	96.5	93.7	87.8
Untreated	11.7	3.5	6.3	12.2
Key Technologies Tested				
RR2Y	88.5	89.8	72.8	46.1
RR2/STS	2.8	0.1	0.5	0.0
RR	8.5	9.8	21.4	47.9
RR/STS	0.1	0.3	0.7	2.3
RR Lo Lin	0.0	0.0	0.0	0.2
LL	—	—	3.4	3.5
Conv	0.1	—	1.2	0.0

— items not accepted for testing

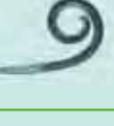
than expectations heading into harvest. Late-season rains associated with Hurricane Isaac fell across much of the Mississippi and Ohio River corridors to boost soybean yields. Soybean tests in Nebraska and South Dakota were hardest hit by the drought; in three regions, we lost 4 of 12 tests due to yields ranging from zero to 25 bu. per acre. With yields this low, results are unreliable. Grain moisture readings are unavailable due to low grain quantity. In those instances, higher-yielding products performed "well" due to being located in soil with greater moisture availability and not necessarily due to genetics.

Despite the tough conditions, there is a tremendous amount of good information to glean from the 2012 F.I.R.S.T. yield results. We hope you find the results beneficial as you make seed selections for 2013.

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

KNOW YOUR CORN NEMATODES

INFORMATION COMPILED FROM RECENT UNIVERSITY EXTENSION ARTICLES.

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

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

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

Photos courtesy of J. Eisenback, Virginia Tech University.

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Corn Stats:

Yield Range: 139.6-184.1 bu. per acre
 Yield Average: 166.1 bu. per acre
 Top \$ Per Acre: \$1,325.70

Corn Field Notes: Wisconsin Central

Jason Beyers, F.I.R.S.T. Manager

Ellisville—This was a beautifully uniform irrigated plot. Emergence was excellent on most hybrids, and plants looked fairly healthy most of the season. Clark Riemer, F.I.R.S.T. farmer, said he “tried to water every time it was looking stressed.” Plants were all standing like trees and appeared to be disease-free at harvest. Most ears were still standing straight up with excellent ear retention. This plot yielded an average of 212.7 bu. per acre in the early-season test and 209.7 bu. per acre in the full-season test.

Fox Lake—This location was following rye, and the crop residue made it extremely difficult to find moisture at the time of planting. Nonetheless, it still germinated well. Plants did look like they were struggling all season long, but good timely rains around pollination and grain fill saved most hybrids. The only disease found was slight mold on the ears. This test averaged 142.1 bu. per acre in the early-season test and 143 bu. per acre in the full-season test.

Oxford—This location was one of our last ones planted (May 16) and achieved really good stands. Yield levels were good (averaging more than 200 bu. per acre for early- and full-season tests) due to being irrigated. Some plants were showing mold on the tips of the ears. There appeared to be anthracnose present in some stalks, but all were still standing perfectly. Drydown was good for most hybrids, giving us a nice moisture range.

Plover—We planted this plot fairly early (May 8) compared to the surrounding region but achieved really good stands. F.I.R.S.T. farmer Matt Hintz has a slightly sandy soil here that dried out quickly when rainfall was short in June and July. Plant health was still really good at the time of harvest, with everything standing perfectly. Most hybrids still had ears standing straight up and had good ear retention. The average yield here was 83.2 bu. per acre in the early-season test and 86.6 bu. per acre for the full-season test.

Taylor—The data at this site was rejected because of emergence issues. At planting it was difficult to find moisture at a uniform soil depth. As a result, two-thirds of the plants emerged timely, but the other third sat in dry soil for three weeks until it rained; then they emerged. In June there was corn 12” tall (early emergence) next to another plant that was only 5” tall (delayed emergence). This made for variable grain moisture and yield at harvest.

Tomah—The Tomah test plot started off with great emergence and kept getting good timely rain-falls. Gene Baumgarten, F.I.R.S.T. farmer, had plants that were all standing perfectly at harvest time with a lot of upright ears. Some hybrids were showing a little mold development on the ear when the husks were tightly wrapped. Other than that, there was no evidence of any disease and overall this was a nice uniform plot. The average yields here were 185 bu. per acre in the early-season test and 190.8 bu. per acre in the full-season test.

Site Information Wisconsin Central						2012 Rainfall (inches)*					
						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Ellisville	sandy loam	strip-till	corn, 2+ yr	220	5/12	33.20	3.31	2.37	2.73	-1.36	-0.88
Fox Lake	silt loam	conventional	rye	159	5/14	31.70	3.55	0.46	2.33	-4.15	-2.23
Oxford	sandy loam	minimum	green beans, rye	218	5/16	33.10	7.34	0.60	1.49	-4.11	-2.87
Plover	loam	no-till	soybean	158	5/8	31.20	5.02	2.14	0.59	-2.24	-3.33
Taylor	sandy loam	conventional	corn, 2+ yr	155	5/13	32.30	5.17	4.39	0.52	-0.09	-3.98
Tomah	silt loam	minimum	soybean	175	5/13	31.30	4.53	2.31	0.55	-2.45	-3.86

*Rainfall estimates provided by Telvent. Grower supplied rainfall data in field notes.

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



EARLY-SEASON TEST 95-100 Day CRM

Top 30 of 45 tested

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Ellisville	Fox Lake	Oxford	Plover	Taylor*	Tomah
Pioneer	P0193HR	HX,RR2	MQ,C2	101	176.0	28.0	1	1,269	2	233.4	158.5	204.8	89.2	48.0	194.2
Great Lakes	4879VT3PRO	VT3P	AC,P5V	98	173.3	27.3	1	1,253	3	216.2	169.9	198.9	87.7	46.0	194.0
Golden Harvest	H-7069 3000GT	3000GT	CE,C2	96	171.2	26.3	1	1,243	4	204.3	138.1	228.3	91.3	45.2	193.8
Dyna-Gro	D34VP52	VT3P	AC,P5V	94	171.0	26.4	1	1,241	5	215.9	145.9	198.2	101.4	57.2	193.4
Trelay	4VP897	VT3P	AC,P5V	95	170.4	26.8	1	1,235	6	206.3	154.5	212.6	81.6	38.6	197.1
Channel	196-76VT3P	VT3P	AC,P5V	96	169.6	26.7	1	1,229	7	214.1	142.3	189.5	104.2	35.8	198.1
Stine	9422VT3Pro	VT3P	AC,P2	96	168.6	26.3	1	1,224	8	205.6	184.0	191.1	91.1	34.6	171.4
G2 Genetics	5X-895^	HXT,RR2	MQ,R,C2	97	168.4	26.3	1	1,223	9	214.0	140.6	201.3	109.5	61.5	176.5
FS InVISION	FS 46SV4	VT3P	AC,P2	96	167.5	26.5	1	1,215	10	216.4	129.9	220.4	82.6	29.7	188.2
AgriGold	A6203VT3	VT3P	AC,P5V	97	167.3	27.4	1	1,209	11	204.7	166.7	201.6	85.3	44.7	178.2
Jung	7V499	VT3P	AC,P5V	99	165.6	26.9	1	1,199	12	213.6	154.3	182.2	79.4	48.3	198.6
LG Seeds	LG5470VT3Pro	VT3P	AC,P5V	98	165.6	27.3	1	1,198	13	229.8	138.3	173.6	85.3	40.3	200.8
FS InVISION	FS 49SX1 RIB	STX-R	AC,P2	99	165.4	27.1	1	1,197	14	218.3	162.9	185.5	73.0	64.3	187.5
NuTech	5N-798	3000GT	MX,C2	98	165.1	26.7	1	1,197	15	213.5	142.7	198.0	103.9	46.2	167.2
Channel	197-32VT3P	VT3P	AC,P5V	97	164.9	26.8	1	1,195	16	219.6	137.2	196.3	73.5	31.0	197.9
AgriGold	A6252VT3Pro	VT3P	AC,P5V	100	164.9	27.4	1	1,192	17	217.9	148.7	187.6	68.2	35.0	202.3
Jung	7V457	VT3P	AC,P5V	98	164.2	27.6	1	1,186	19	213.3	140.1	190.8	95.5	29.8	181.1
Renk	RK580SSTX RIB	STX-R	AC,P2	98	164.0	27.0	1	1,187	18	208.3	153.1	197.3	88.3	55.8	173.0
G2 Genetics	5X-0004^	HXT,RR2	MQ,R,P1V	100	163.5	27.9	1	1,179	22	215.2	141.3	184.7	89.1	62.4	187.0
Renk	RK598VT3P	VT3P	AC,P2	100	163.3	26.8	1	1,183	20	212.6	154.1	174.7	89.1	45.8	186.2
Jung	7S429RIB	STX-R	AC,P5V	96	162.9	26.3	1	1,183	21	199.9	131.9	208.3	85.7	78.3	188.7
LG Seeds	LG5499VT3Pro	VT3P	AC,P5V	100	162.7	28.3	1	1,172	25	241.5	124.6	187.3	67.8	45.0	192.2
G2 Genetics	5Z-198^	OL,RR2	MQ,R,P1V	98	162.3	27.0	1	1,175	23	224.2	144.7	198.2	75.6	39.4	168.9
Dekalb	DKC46-20 GC	VT3P	AC,P2	96	162.1	26.7	1	1,175	24	210.4	133.6	201.6	87.0	69.7	178.0
NuTech	5N-197	3000GT	MQ,R,C2	97	161.3	26.8	1	1,169	26	209.9	136.9	182.2	92.5	50.9	185.2
G2 Genetics	5H-399^	HX,RR2	MQ,R,P1V	99	161.3	27.8	1	1,164	28	218.5	148.0	169.1	66.3	69.0	204.6
Dekalb	DKC48-12RIB GC	STX-R	AC,P2	98	161.2	26.8	1	1,168	27	209.2	149.4	172.6	93.2	90.2	181.5
AgriGold	A6256STXRIB	STX-R	AC,P5V	100	160.5	27.1	1	1,162	29	210.6	150.3	161.2	99.8	79.5	180.6
LG Seeds	LG5444VT3Pro	VT3P	AC,P5V	96	159.9	26.6	1	1,160	31	211.1	113.4	202.7	94.6	41.9	177.5
Dyna-Gro	D35VP40	VT3P	AC,P2	95	159.6	26.0	1	1,160	30	209.9	121.4	195.0	76.7	55.4	194.8
Pioneer	P0062AM1 CK	AM1,RR2	MQ,P1V	100	175.4	26.8	1	1,271	1	217.0	156.3	219.2	95.5	79.9	189.0
Test Average =					162.0	26.9	1	1,173		212.7	142.1	186.9	83.2	52.8	185.0
LSD (0.10) =					13.0	0.8	ns			12.5	17.6	20.3	14.1	22.7	13.7

FULL-SEASON TEST 101-104 Day CRM

Top 30 of 36 tested

Trelay	5VP688	VT3P	AC,P5V	101	184.1	28.3	1	1,326	1	221.9	151.3	247.7	87.1	56.2	212.5
Channel	204-06VT3P	VT3P	AC,P5V	104	181.3	28.1	1	1,307	2	212.7	130.3	239.9	117.2	47.3	206.3
NuTech	5B-604	GT/CB/LL	MQ,R,C2	104	181.0	28.4	1	1,303	4	198.5	150.9	238.1	100.3	59.8	217.2
LG Seeds	LG2501VT3Pro GC	VT3P	AC,P5V	101	180.6	27.8	1	1,303	3	203.1	142.3	238.3	123.7	57.6	195.7
AgriGold	A6323GT3	3000GT	AC,P5V	103	179.3	29.0	1	1,287	5	232.6	164.7	227.2	69.6	49.5	202.2
FS InVISION	FS 53TV4	VT3P	AC,P2	103	178.3	28.1	1	1,285	6	214.2	145.8	236.7	97.1	43.7	197.9
Great Lakes	5157VT3PRO	VT3P	AC,P5V	101	174.5	27.8	1	1,259	8	213.4	152.4	225.6	81.0	52.7	200.3
G2 Genetics	5H-202^	HX,RR2	MQ,R,P1V	102	173.7	28.0	1	1,252	9	237.9	134.1	226.9	57.1	35.3	212.3
Renk	RK629VT3P	VT3P	AC,P2	101	173.2	28.1	1	1,248	10	208.2	138.2	221.9	102.6	48.7	195.0
Jung	7S555RIB	STX-R	AC,P5V	102	172.8	29.2	1	1,240	14	210.9	143.6	218.2	108.5	68.0	182.7
Great Lakes	5368VT3PRO	VT3P	AC,P5V	103	172.7	28.1	1	1,245	11	210.7	155.7	229.1	61.1	40.7	206.9
Jung	7S546RIB	STX-R	AC,P5V	102	172.5	28.2	1	1,243	12	201.7	158.5	214.6	103.9	63.8	183.7
Channel	202-25VT3P	VT3P	AC,P5V	102	172.2	28.1	1	1,241	13	211.0	138.3	231.7	71.9	80.0	207.9
Channel	203-43VT3P	VT3P	AC,P5V	103	171.9	28.1	1	1,239	15	227.4	132.5	224.9	92.2	61.0	182.6
G2 Genetics	5Z-802^	OL,RR2	MQ,R,P1V	102	171.9	28.4	1	1,237	16	220.8	144.6	214.9	80.7	58.9	198.6
Renk	RK635VT3P	VT3P	AC,P2	102	171.6	28.4	1	1,235	17	214.4	138.3	237.2	73.4	51.1	194.5
NuTech	5N-803	3000GT	MQ,R,C2	103	170.9	28.4	1	1,230	18	211.6	147.0	230.0	73.9	57.2	191.8
LG Seeds	LG5522VT3Pro	VT3P	AC,P5V	103	170.7	28.3	1	1,229	20	205.2	143.8	216.5	79.6	64.6	208.5
Channel	202-32STX	STX	AC,P5V	104	170.5	29.4	1	1,222	22	207.2	142.7	221.4	86.6	47.6	194.8
NuTech	5N-001	3000GT	MQ,R,C2	101	170.4	27.7	1	1,230	19	207.0	148.7	209.0	97.2	43.9	190.0
Golden Harvest	H-7652 4011 GC	4011	MQ,C2	101	170.0	27.8	1	1,227	21	221.7	145.2	217.2	82.8	48.2	182.9
Pioneer	P0413AM1	AM1,RR2	MQ,P1V	104	169.0	28.6	1	1,215	23	215.5	144.3	217.9	88.5	62.6	178.7
NK Brand	N45P-4011	4011	MQ,C2	101	167.4	27.5	1	1,210	25	209.5	134.2	211.2	88.9	57.6	193.2
FS InVISION	FS 54VX1 RIB	STX-R	AC,P2	104	167.4	28.2	1	1,206	26	207.8	160.5	192.9	84.6	39.6	191.0
AgriGold	A6276VT3	VT3P	AC,P5V	101	167.3	28.6	1	1,203	28	204.3	138.5	219.2	84.8	45.7	189.7
Dairyland	DS9501SSX	STX	AVC,C2	101	167.2	26.6	1	1,213	24	202.7	144.0	234.0	76.8	32.6	178.6
Garst	87W74-3000GT	3000GT	CE,C2	102	167.0	27.8	1	1,205	27	196.0	150.5	220.2	81.6	59.9	186.8
Trelay	6ST576RIB	STX-R	AC,P5V	104	167.0	29.1	1	1,199	29	212.1	141.6	212.2	94.0	46.9	175.3
Dairyland	DS6604	RR2	CE,C2	104	162.0	27.6	1	1,170	30	218.9	130.7	204.5	76.5	20.5	179.6
Jung	7V540	VT3P	AC,P5V	101	161.5	27.4	1	1,167	31	193.1	132.6	202.8	103.3	41.2	175.8
Pioneer	P0062AM1 CK	AM1,RR2	MQ,P1V	100	177.4	27.3	1	1,283	7	216.4	156.5	228.9	94.1	74.0	191.3
Test Average =					170.1	28.2	1	1,226		209.7	143.0	220.3	86.6	52.4	190.8
LSD (0.10) =					12.0	0.9	ns			11.8	12.5	18.7	16.1	15.9	13.2

= rejected results, not included in summary

PONCHO®/VOTiVO®

CORN AND SOYBEAN Q&A

WHAT IS PONCHO/VOTiVO SEED TREATMENT?

Poncho®/VOTiVO® is a seed-applied product that protects young plants from pests and nematodes before they can strike. It has a systemic agent that is absorbed into new roots immediately and a unique biological component that creates a living barrier of protection for corn, soybean and cotton plants.

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's roots, protecting them 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 \$1.5 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 the nematode and insect damage to roots that can lead to disease. 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 four-year span of 600+ 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 200 head-to-head soybean trials conducted over the past two years, Poncho/VOTiVO produced a consistent average of 1 to 2.5 bu/a more than the current Bayer CropScience premium seed treatment, Trilex® 2000 + Gaucho®, 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 protects young plants from pests during critical early development stages, preventing irreversible damage before it happens. It increases root development, resulting in more vigorous plants. A larger root system often results in enhanced water and nutrient uptake, which leads to stronger stands and healthier plant establishment.

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.

Bayer CropScience LP, 2 TW Alexander Drive, Research Triangle Park, NC 27709. Always read and follow label instructions. Bayer (reg'd), the Bayer Cross (reg'd), Gaucho® On Demand™, Poncho®, Trilex®, VOTiVO®, and Yield Shield® are trademarks of Bayer. Gaucho, Poncho, Poncho/VOTiVO, Trilex 2000, VOTiVO, and Yield Shield are not registered in all states. For additional product information, call toll-free 1-866-99-BAYER (1-866-992-2937) or visit our Web site at www.BayerCropScience.us.

CR0912PONVOTA025V00R0

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 the previous year with Poncho/VOTIVO.

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 (such as the On Demand™ system) or with standard soybean seed treatment equipment that has been certified by your Bayer CropScience representative. It is not for use in hopper box, planter box, slurry box or other on-farm applications.

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

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

DO THE BACTERIA IN PONCHO/VOTIVO CARRY OVER IN THE SOIL FROM YEAR TO YEAR?

While the bacteria are able to live and grow in the soil, bacteria are 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.

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



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

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. As long as the seed is able to germinate and grow in the environment, Poncho/VOTIVO will be effective.

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 continuing by several manufacturers.



Corn Stats:

Yield Range: 129.9-168.8 bu. per acre
 Yield Average: 150.7 bu. per acre
 Top \$ Per Acre: \$1,229.70

Corn Field Notes: Wisconsin South

Jason Beyers, F.I.R.S.T. Manager

Arlington—This location struggled all season long, beginning just after planting as cool conditions affected germination. Then limited rainfall compounded all the issues. Most hybrids were not much taller than waist-high. Some late-season grass moved in due to poor canopy closure. Sidney Stibbs, F.I.R.S.T. farmer, saw no evidence of any disease present at harvest. This test plot averaged 106 bu. per acre in the early-season test and 115.7 bu. per acre in the full-season test.

Janesville—The Janesville test plot was planted on May 5 through May 6, which ended up being a bad time to plant corn. A cold snap over the next week really affected germination of all corn in southern Wisconsin and northern Illinois. At this location the lack of rainfall during June and July played into the reduced stand. A rainfall of only 1" around July 20 helped boost yields of most of the later-season hybrids. Stalk quality was still good at harvest, as there was little disease present.

Oregon—This plot started out promising with good emergence, but then the rain quit until late July. A late-July rain did help the later-season hybrids fill ears and kernels but was too late for the early-season products. All of the lodging present was from goose-necking due to high winds after pollination. Gray leaf spot was present on some plants. Hybrids were slower at drying down here compared to other area plots planted about the same time. This test plot produced an average of 138.5 bu. per acre in the early-season test and an average of 158 bu. per acre in the full-season test.

Spring Green—This was an excellent corn plot. Everything emerged well and the season started out looking fantastic. Will Hutters, F.I.R.S.T. farmer, spent most of the summer running the irrigator. Plants stood well at harvest but there were several leaf diseases present as well. Ear retention was still good and most ears had good kernel depth. Corn started to dry down well. Hutters was able to produce an average

of 198.3 bu. per acre in the early-season test and 192.7 bu. per acre in the full-season test.

Watertown—These were really surprising yields for dryland sand. Plants all emerged really well and looked uniform at growth stage V5. June was a little dry, leading to short plant height. Some ears were only 12" to 14" off the ground. Leaf blight, anthracnose, gray leaf spot and smut all were present at harvest. Most hybrids were standing well, aiding in easy harvest. The Watertown test site produced an average of 143 bu. per acre in the early-season test and an average of 159.1 bu. per acre in the full-season test.

Woodstock—Rainfall was the limiting factor at this location. The plot was off to a great start, and then June and July destroyed yield potential. There was some stalk rot and anthracnose present at harvest, but most hybrids stood well. Pollination was stressed the most; there was a lot of ear tip-back, and the kernels on the nubbin ears were huge. Everything had good cob quality.

Site Information Wisconsin South						2012 Rainfall (inches)*					
						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Arlington	silt loam	conventional	corn, 2+ yr	168	5/11	2.32	0.28	2.81	2.06	-1.35	-1.84
Janesville	silt loam	strip-till	soybean	168	5/5	2.68	0.39	2.25	2.78	-1.68	-1.52
Oregon	silt loam	strip-till	soybean	166	5/10	3.02	0.29	2.21	1.75	-1.50	-2.64
Spring Green	sandy loam	minimum	wheat	210	5/4	2.34	0.58	2.62	2.56	-2.20	-1.68
Watertown	sandy loam	conventional	soybean	166	5/11	3.30	0.32	2.07	2.14	-2.65	-1.92
Woodstock	silt loam	conventional	corn, 2+ yr	238	5/10	3.23	0.97	1.82	1.32	-2.34	-3.05

*Rainfall estimates provided by Telvent. Grower supplied rainfall data in field notes.

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



EARLY-SEASON TEST 99-104 Day CRM

Top 30 of 45 tested

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Arlington	Janesville	Oregon	Spring Green	Watertown	Woodstock
NuTech	5B-604	GT/CB/LL	MQ,R,C2	104	160.8	24.3	6	1,177	1	105.2	180.4	156.0	227.1	159.2	136.8
Golden Harvest	H-7891 3000GT GC	3000GT	CE,C2	103	155.8	23.0	6	1,147	2	107.3	177.6	152.3	224.9	154.3	118.4
Great Lakes	5368VT3PRO	VT3P	AC,P5V	103	153.0	21.9	8	1,131	3	100.9	178.0	156.5	213.2	146.3	123.2
LG Seeds	LG2508VT3Pro GC	VT3P	AC,P5V	104	152.3	23.9	4	1,117	4	103.9	164.2	155.5	210.5	150.6	129.2
NuTech	5N-803	3000GT	MQ,R,C2	103	151.9	23.7	5	1,115	6	112.9	155.2	146.5	220.3	164.6	112.0
Renk	RK629VT3P	VT3P	AC,P2	101	151.2	22.4	4	1,116	5	110.4	181.6	137.8	213.0	131.0	133.2
Great Lakes	4879VT3PRO GC	VT3P	AC,P5V	98	150.5	22.0	10	1,112	7	105.3	173.7	144.9	205.6	137.2	136.3
LG Seeds	LG2501VT3Pro	VT3P	AC,P5V	101	149.6	21.2	10	1,109	8	116.0	188.1	127.7	217.3	138.8	109.8
LG Seeds	LG5522VT3Pro	VT3P	AC,P5V	103	149.6	23.5	7	1,099	10	105.8	182.9	152.4	197.5	162.0	96.8
Channel	202-25VT3P	VT3P	AC,P5V	102	149.5	22.5	8	1,103	9	107.6	173.4	144.1	211.7	143.8	116.3
Pioneer	P0533AM1	AM1,RR2	MQ,P1V	105	149.2	23.6	8	1,095	12	108.8	161.2	141.1	199.7	144.2	140.0
Channel	203-43VT3P	VT3P	AC,P5V	103	148.9	22.6	4	1,098	11	90.4	179.8	158.4	210.5	139.6	114.8
NK Brand	N49W-3000GT GC	3000GT	MQ,C2	102	148.0	23.2	8	1,088	15	108.7	169.1	133.9	190.2	143.2	142.6
G2 Genetics	5X-903^	HXT,RR2	MQ,R,P1V	103	147.8	22.7	6	1,089	14	127.6	154.9	121.0	203.1	145.2	134.9
FS InVISION	FS 53TV4	VT3P	AC,P2	103	147.2	22.7	5	1,085	16	106.7	173.5	148.0	205.8	138.8	110.3
Renk	RK635VT3P	VT3P	AC,P2	102	144.4	21.6	3	1,069	17	111.0	169.5	152.3	181.0	141.8	110.9
Channel	204-06VT3P	VT3P	AC,P5V	104	144.4	23.3	11	1,062	19	113.4	161.6	110.2	219.8	137.9	123.5
Channel	202-32STX	STX	AC,P5V	104	144.4	23.9	3	1,059	20	92.8	166.4	139.5	197.0	153.3	117.6
FS InVISION	FS 49S1 RIB	STX-R	AC,P2	99	144.3	21.5	4	1,069	18	127.9	165.9	147.8	176.3	138.2	109.4
G2 Genetics	5Z-802^	Ol,RR2	MQ,R,P1V	102	144.0	23.7	6	1,057	22	93.4	158.0	126.6	206.4	159.9	119.8
Dyna-Gro	D39VP14	VT3P	AC,P5V	99	143.1	22.0	6	1,058	21	102.6	165.6	141.5	198.6	132.1	118.4
Dairyland	DS9303SSX	STX	AVC,C2	103	142.9	22.1	6	1,056	24	112.3	149.9	153.6	182.9	152.7	105.8
NK Brand	N45P-4011	4011	MQ,C2	101	142.8	22.9	6	1,051	26	122.1	146.8	121.5	199.6	147.7	118.8
Trelay	6ST576RIB	STX-R	AC,P5V	104	142.7	23.1	5	1,050	28	105.5	171.0	142.0	181.9	157.5	98.2
Great Lakes	5015VT3PRO	VT3P	AC,P5V	100	142.4	21.7	11	1,054	25	87.2	168.5	124.3	204.8	130.0	139.5
Dairyland	DS9501SSX	STX	AVC,C2	101	142.3	20.9	5	1,056	23	107.9	137.6	143.4	222.8	142.7	99.6
Pioneer	P0062AM1 GC	AM1,RR2	MQ,P1V	100	141.8	21.7	8	1,049	29	106.5	161.0	137.7	165.1	152.5	128.0
Dyna-Gro	D40SS09 RIB	STX-R	AC,P2	100	141.7	21.3	6	1,050	27	104.6	157.1	134.3	183.8	156.3	114.1
AgriGold	A6252VT3Pro	VT3P	AC,P5V	100	141.5	21.6	9	1,047	30	92.1	173.4	134.7	196.7	142.5	109.8
NuTech	5N-001	3000GT	MQ,R,C2	101	141.5	22.5	7	1,044	31	100.7	150.9	134.0	202.9	137.4	123.2
Pioneer	P0413AM1 CK	AM1,RR2	MQ,P1V	104	148.6	23.5	7	1,092	13	118.2	178.1	127.7	210.0	154.6	102.7
Test Average =					144.0	22.6	6	1,061		106.0	162.1	138.5	198.3	143.0	116.0
LSD (0.10) =					11.5	0.9	ns			15.4	16.5	15.2	14.7	16.5	18.1

FULL-SEASON TEST 105-108 Day CRM

Top 30 of 36 tested

Trelay	6VP844	VT3P	AC,P5V	107	168.8	25.5	4	1,230	1	125.7	203.3	177.3	195.3	182.2	128.9
G2 Genetics	5H-0504^	HX,RR2	MQ,R,P1V	105	165.0	24.8	8	1,206	2	136.3	199.6	164.3	202.4	162.1	125.3
LG Seeds	LG5533VT3Pro	VT3P	AC,P5V	107	163.0	24.0	3	1,195	3	123.6	214.1	168.3	205.5	155.9	110.6
LG Seeds	LG5541VT3Pro GC	VT3P	AC,P5V	108	163.0	25.9	5	1,186	4	105.1	205.7	178.0	200.0	174.0	115.4
Stine	9529VT3Pro	VT3P	AC,P2	107	162.9	26.6	5	1,181	5	114.7	198.2	166.9	215.3	161.4	120.9
Renk	RK795VT3P	VT3P	AC,P2	108	162.7	28.3	5	1,172	9	123.0	205.0	163.1	194.0	165.8	125.3
Jung	7V570	VT3P	AC,P5V	105	162.5	26.2	3	1,180	6	133.0	203.8	161.3	187.6	170.0	119.4
Great Lakes	5643VT3PRO	VT3P	AC,P5V	106	161.9	26.7	3	1,174	8	131.8	220.0	151.6	216.0	142.9	108.8
Great Lakes	5884VT3PRO	VT3P	AC,P5V	108	161.2	25.2	5	1,176	7	115.4	209.1	173.3	203.7	155.6	109.9
Trelay	6VP804	VT3P	AC,P5V	107	160.0	24.8	10	1,169	10	122.7	203.9	161.5	180.3	168.8	122.7
Trelay	7VP293	VT3P	AC,P5V	110	159.8	27.7	6	1,154	16	110.1	203.3	163.3	185.6	181.7	114.8
Trelay	7VP104	VT3P	AC,P5V	107	159.6	25.1	6	1,165	12	94.7	203.1	171.7	198.9	150.9	138.5
Jung	7V642	VT3P	AC,P5V	107	159.2	25.1	14	1,162	13	115.2	205.3	145.9	196.4	163.9	128.5
Renk	RK752SSTX	STX	AC,P2	106	159.0	24.8	8	1,162	14	110.9	210.6	139.4	214.6	154.1	124.6
AgriGold	A6356VT3Pro	VT3P	AC,P5V	105	158.9	25.2	3	1,159	15	120.5	219.9	166.4	201.1	136.4	108.9
AgriGold	A6408VT3Pro	VT3P	AC,P5V	107	158.4	23.1	4	1,165	11	113.3	217.1	158.4	201.5	157.2	103.0
Dyna-Gro	CX48VP76	VT3P	AC,P5V	108	158.0	25.9	3	1,149	17	115.1	217.1	166.3	175.7	159.8	114.0
AgriGold	A6433VT3Pro	VT3P	AC,P5V	108	157.8	27.5	6	1,140	22	110.8	192.8	171.8	194.4	163.8	113.1
Pioneer	P0916AM1	AM1,RR2	MQ,P1V	109	157.7	27.5	4	1,139	23	139.0	199.6	149.4	169.4	163.2	125.7
FS InVISION	FS 55ZV4	VT3P	AC,P2	105	157.0	24.5	5	1,149	18	102.1	206.1	149.0	217.4	151.4	115.9
G2 Genetics	5Z-407^	Ol,RR2	MQ,R,P1V	107	156.8	24.6	4	1,147	19	122.4	202.6	156.4	195.3	149.5	114.6
LG Seeds	LG2531VT3Pro	VT3P	AC,P5V	106	156.4	24.5	6	1,144	20	105.1	208.7	159.7	198.5	152.6	113.9
G2 Genetics	5H-806^	HX,RR2	MQ,R,P1V	106	155.9	24.8	5	1,139	24	114.2	206.0	146.9	184.6	172.6	111.2
Great Lakes	5785VT3PRO	VT3P	AC,P5V	107	155.6	23.9	4	1,141	21	111.0	203.8	158.2	194.1	145.3	121.4
Channel	208-48VT3P	VT3P	AC,P5V	108	155.6	25.0	9	1,136	25	107.4	187.4	152.2	179.7	176.1	130.8
Dekalb	DKC55-09RIB GC	STX-R	AC,P2	105	155.6	25.4	4	1,134	26	112.5	208.2	159.5	187.7	152.2	113.7
FS InVISION	FS 58MV4	VT3P	AC,P2	108	154.7	27.6	5	1,117	28	125.1	197.5	171.1	193.1	136.6	104.7
NuTech	5N-406	3000GT	MQ,R,C2	106	154.5	25.8	5	1,124	27	112.1	186.6	164.2	166.1	180.9	116.9
Channel	207-13VT3P	VT3P	AC,P5V	107	152.2	27.0	9	1,102	31	106.5	202.2	144.1	185.6	162.2	112.8
Renk	RK708SSTX	STX	AC,P2	105	151.8	24.8	2	1,109	30	117.5	178.1	153.0	189.1	157.3	115.6
Pioneer	P0413AM1 CK	AM1,RR2	MQ,P1V	104	152.4	24.6	5	1,114	29	121.3	184.8	130.6	219.2	156.3	102.3
Test Average =					157.4	25.7	5	1,146		115.7	202.8	158.0	192.7	159.1	116.1
LSD (0.10) =					ns	1.2	ns			15.4	13.9	14.3	16.5	17.8	13.1



Corn Stats:

Yield Range: 153.1-215.3 bu. per acre
 Yield Average: 181.4 bu. per acre
 Top \$ Per Acre: \$1,591.70

Corn Field Notes: North Central Tri-State

Jason Beyers, F.I.R.S.T. Manager

Lancaster—This plot started out a little on the tough side. Several hybrids did not have much of a root system until the brace roots started to form. Rainfall late in the pollination process helped the fuller-season varieties. Almost all the lodging scores represent stalk lodging. Yield levels were surprising for the amount of stress that these hybrids endured this season. Darrel Crapp, F.I.R.S.T. farmer, was able to produce 156 bu. per acre in the early season and 184 bu. per acre in the full season on this Lancaster test plot.

Manchester—F.I.R.S.T. farmer John Crock had ideal planting conditions at his Delaware County test plot and most hybrids emerged rather quickly. The plot was off to a good start but then deteriorated from there. The early-season hybrids in the plot suffered through pollination. Crock commented that the field around the plot averaged around 170 bu. per acre. There was no disease noted at harvest, and all lodging was root related. Crock did produce an average of 170.3 bu.

per acre in the full-season test while the early-season hybrids produced only 139.1 bu. per acre.

Miles—This location did not receive any ample amounts of rainfall, but the ones that did come were timely. The later-season hybrids definitely had an advantage with better pollination conditions. There was very little disease pressure, and all hybrids had good stalk quality and were standing. Ear shanks on some were beginning to get weak. The Miles test plot averaged 211 bu. per acre in the early-season test and 253.8 bu. per acre in the full-season test.

Milledgeville—The Milledgeville test plot was an excellent plot this year. Corn here did receive a small amount of stress. Still, every critical time this plot needed a rain, Steve Hollewell, F.I.R.S.T. farmer, would get 0.5" more than surrounding areas. Some of the hybrids experienced some ear tip-back on the tip of the ear, but most were filled with kernels to the tip. Most ears had 16 to 18 deep-set kernels around

each cob. In July, a small hailstorm damaged some of the leaves and bruised the stalks but there was no other disease present at the time of harvest.

Postville—Early-season emergence was good on the Postville test plot, and everything looked uniform at growth stage V5. Glenn Griffin, F.I.R.S.T. farmer, caught some decent rains during the growing season. Most hybrids were standing very nicely, with good roots and stalks. Ear retention was still good and cobs were solid, which made shelling easy. There was evidence of some anthracnose on some hybrids. Kernel size was large as well.

Warren—This location struggled most of the growing season, with rainfall being the most limiting factor. There was a small amount of foxtail pressure due to lack of plant height and leaf shading by most hybrids. Ears averaged 14 rows of kernels around and they were relatively short, with almost 2" of tip-back on most of them. All lodging was root, and little disease could be found.

Site Information North Central Tri-State						2012 Rainfall (inches)*					
						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Lancaster	silt loam	conventional	corn	238	4/27	2.73	1.36	1.63	1.53	-2.69	-2.67
Manchester	loam	conventional	corn, 2+ yr	211	4/26	2.52	1.64	1.69	2.59	-3.22	-2.25
Miles	clay loam	minimum	soybean	140	4/26	1.28	2.04	0.84	2.56	-3.18	-2.02
Milledgeville	silt loam	minimum	soybean	220	4/24	1.20	1.96	2.03	2.45	-2.26	-2.02
Postville	silt loam	minimum	soybean	220	4/26	4.67	1.30	2.09	2.09	-2.36	-2.57
Warren	silt loam	conventional	corn, 2+ yr	242	4/27	2.56	0.73	0.94	2.01	-2.93	-2.59

*Rainfall estimates provided by Telvent. Grower supplied rainfall data in field notes.

F.I.R.S.T. North Central Tri-State Corn Results



EARLY-SEASON TEST 101-106 Day CRM

Top 30 of 54 tested

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Lancaster	Manchester	Miles	Milledgeville	Postville	Warren
Renk	RK752SSTX	STX	AC,P2	106	193.2	21.5	6	1,431	1	177.5	165.8	226.9	254.2	190.6	144.2
Pioneer	P0533AM1	AM1,RR2	MQ,P1V	105	190.4	19.9	5	1,419	2	192.3	179.4	207.7	228.7	184.8	149.2
Titan Pro	1M05-SS	STX	AC,P2	105	189.5	21.5	3	1,403	3	170.3	167.1	224.1	245.7	179.7	149.9
Pioneer	P0062AM1	AM1,RR2	MQ,P1V	100	182.6	18.5	4	1,369	4	191.7	159.7	212.6	237.8	165.5	128.0
Wyffels	W3007	VT3P	AC,P5V	103	182.5	19.9	6	1,360	5	171.9	142.1	211.9	264.3	185.5	119.2
G2 Genetics	5H-806^	HX,RR2	MQ,R,P1V	106	182.5	20.1	6	1,359	6	156.8	141.1	232.6	276.3	189.7	98.3
G2 Genetics	5H-0504^	HX,RR2	MQ,R,P1V	105	182.4	21.9	3	1,349	9	168.7	138.9	214.5	263.9	192.6	115.7
NuTech	5B-604	GT/CB/LL	MQ,R,C2	104	182.2	20.2	9	1,356	7	160.4	121.9	227.4	279.2	207.6	96.7
Kruger	K-7303	VT3P	AC,P5V	103	181.3	19.8	6	1,352	8	177.1	153.4	207.7	252.0	183.0	114.5
Renk	RK708SSTX	STX	AC,P2	105	180.1	19.5	3	1,344	10	148.0	178.6	193.0	246.8	164.7	149.2
FS InVISION	FS 552V4	VT3P	AC,P2	105	179.3	19.5	3	1,339	11	180.3	128.2	212.0	270.2	174.5	110.5
AgriGold	A6384VT3Pro	VT3P	AC,P5V	106	179.1	23.0	5	1,318	15	155.8	123.8	230.6	278.7	181.4	104.4
Steyer	10604-3000GT	3000GT	MQ,C2	105	178.8	19.9	9	1,333	12	187.0	120.3	230.6	264.4	183.7	86.6
LG Seeds	LG5550VT3Pro	VT3P	AC,P5V	106	178.8	20.8	3	1,328	13	171.2	121.6	216.9	282.1	193.7	87.1
Trelay	6ST576RIB	STX-R	AC,P5V	104	177.3	19.9	2	1,321	14	159.4	151.0	209.2	257.3	168.3	118.8
Steyer	10603GENSS RIB	STX-R	MQ,C2	106	177.2	22.3	3	1,308	21	131.6	148.4	215.6	246.2	179.5	141.8
Viking	D84-06RL	STX-R	AC,P2	106	176.7	21.5	3	1,309	20	156.3	143.3	211.8	237.3	164.1	147.3
NuTech	5N-406	3000GT	MQ,R,C2	106	176.3	21.1	5	1,308	22	145.7	149.6	209.6	249.2	191.9	111.5
LG Seeds	LG2501VT3Pro	VT3P	AC,P5V	101	176.0	18.8	4	1,318	16	149.6	134.2	227.5	244.5	187.0	113.2
Renk	RK629VT3P	VT3P	AC,P2	101	175.8	18.8	3	1,316	17	143.3	150.0	237.3	244.4	161.7	117.9
Channel	204-06VT3P	VT3P	AC,P5V	104	175.4	19.6	8	1,309	19	174.9	131.4	206.7	259.8	176.3	103.3
NuTech	5N-803	3000GT	MQ,R,C2	103	175.3	20.6	5	1,303	26	147.8	144.9	215.0	246.9	181.6	115.4
Cornelius	C303SS	STX	CE,C2	101	175.2	20.4	3	1,303	25	137.8	157.5	201.7	248.7	163.4	142.1
G2 Genetics	5X-903^	HXT,RR2	MQ,R,P1V	103	174.6	19.5	4	1,303	24	156.8	163.2	204.8	219.3	165.8	137.8
Great Lakes	5368VT3PRO	VT3P	AC,P5V	103	174.3	18.8	3	1,305	23	143.2	141.1	208.3	266.6	181.9	104.5
Kruger	K4R-9205	STX-R	AC,P5V	105	174.0	19.8	2	1,297	29	158.3	159.7	202.8	245.3	162.9	115.2
Channel	203-43VT3P	VT3P	AC,P5V	103	173.9	19.1	6	1,300	27	170.4	127.4	214.2	257.9	175.0	98.4
Titan Pro	81A04GL	3000GT	MQ,C2	104	173.7	19.3	6	1,298	28	151.2	112.4	231.7	265.4	179.9	101.3
FS InVISION	FS 56TX1 RIB	STX-R	AC,P2	106	173.3	21.3	4	1,284	30	161.2	149.2	205.6	230.1	173.6	120.1
Dairyland	DS6604	RR2	CE,C2	104	171.0	18.7	4	1,281	31	159.3	131.0	216.9	229.3	194.9	94.8
Pioneer	P0621HR CK	HX,RR2	MQ,P1V	106	176.1	20.4	4	1,310	18	172.5	130.5	235.7	248.4	166.3	103.0
Test Average =					173.1	19.9	4	1,290		156.0	139.1	211.0	243.6	175.6	113.1
LSD (0.10) =					14.6	1.0	4			19.1	17.7	17.1	15.9	16.5	20.3

FULL-SEASON TEST 107-110 Day CRM

Top 30 of 54 tested

Titan Pro	2M07-SS	STX	AC,P5V	107	215.3	21.9	6	1,592	1	199.7	219.6	276.5	269.5	180.2	146.4
Dairyland	DS9210SSX	STX	AVC,C2	110	206.7	24.2	3	1,514	3	191.9	203.7	256.7	249.8	182.6	155.5
AgriGold	A6458VT3	VT3	AC,P5V	109	205.5	22.7	3	1,514	2	178.3	192.3	260.1	270.9	197.0	134.4
Wyffels	W5787	VT3P	AC,P5V	108	203.0	22.6	5	1,497	4	188.9	180.7	262.8	253.9	195.2	136.7
Stine	9731SS	STX	AC,P2	110	202.2	23.0	4	1,488	5	193.6	194.8	257.5	252.4	160.4	154.2
Wyffels	W6871	VT3	AC,P5V	110	199.2	24.3	3	1,458	8	194.1	194.3	270.0	276.2	176.7	84.1
Steyer	11004GENSS	STX	MQ,C2	110	198.9	23.7	3	1,460	6	189.3	208.7	250.7	245.5	172.1	126.8
Steyer	10901GENSS RIB	STX-R	MQ,C2	109	197.7	22.4	10	1,459	7	174.9	178.9	268.2	261.4	159.4	143.1
Channel	210-57STX	STX	AC,P5V	110	197.2	24.2	3	1,444	11	177.1	203.6	254.0	242.6	182.8	123.2
Cornelius	C594VT3P	VT3P	CE,C2	109	196.3	22.9	5	1,445	10	198.0	213.6	252.0	259.7	163.4	91.2
Trelay	7VP518	VT3P	AC,P5V	110	195.8	22.2	5	1,446	9	188.0	186.5	250.9	274.4	168.4	106.4
Trelay	7VP293	VT3P	AC,P5V	110	195.4	23.2	8	1,437	14	176.8	200.1	280.7	257.7	175.8	81.1
Dairyland	DS9610	3000GT	MQ,C2	110	195.1	24.4	4	1,428	16	200.9	177.4	264.0	262.6	183.3	82.4
Kruger	K-7810	VT3P	AC,P5V	110	194.7	21.9	4	1,439	13	190.8	192.4	250.2	257.4	179.9	97.2
Channel	209-77VT3	VT3	AC,P5V	109	194.7	24.0	4	1,427	17	194.2	178.9	270.9	273.4	161.7	89.2
AgriGold	A6408VT3Pro	VT3P	AC,P5V	107	194.0	20.6	9	1,442	12	175.0	197.0	259.2	251.0	184.3	97.5
G2 Genetics	5H-1005^	HX,RR2	MQ,R,P1V	110	193.4	27.4	9	1,398	28	190.6	167.2	260.3	269.2	183.7	89.6
Jung	7S681RIB	STX-R	AC,P5V	108	193.1	24.1	3	1,415	21	180.2	181.2	243.3	251.7	168.3	133.9
Great Lakes	5785VT3PRO	VT3P	AC,P5V	107	192.9	20.4	5	1,435	15	196.2	163.0	244.8	254.7	199.8	98.8
Steyer	10803GENSS	STX	MQ,C2	107	192.3	21.4	10	1,425	18	179.1	181.5	250.6	253.7	163.5	125.3
Great Lakes	5939G3VT3	VT3	AC,P5V	109	191.9	22.7	9	1,414	22	186.0	147.9	260.9	270.4	191.4	95.0
Titan Pro	81A10GL	3000GT	MQ,C2	110	191.8	23.9	7	1,407	25	197.2	179.2	257.9	254.7	169.4	92.3
G2 Genetics	5Z-407^	OI,RR2	MQ,R,P1V	107	191.4	20.4	6	1,424	19	183.8	186.3	256.9	253.1	159.4	109.1
FS InVISION	FS 60TV4	VT3P	AC,P2	110	191.3	22.7	3	1,410	24	182.2	167.0	262.9	286.8	154.6	94.5
Channel	207-13VT3P	VT3P	AC,P5V	107	191.2	21.8	3	1,414	23	175.9	179.0	256.2	252.1	182.1	101.8
Kruger	K-7907	VT3P	AC,P5V	107	191.1	21.3	6	1,416	20	173.1	172.4	262.2	256.9	165.9	116.0
Pioneer	P0916AM1	AM1,RR2	MQ,P1V	109	190.7	22.9	7	1,404	26	149.8	190.8	253.4	260.7	169.2	120.1
LG Seeds	LG2549VT3	VT3	AC,P5V	109	190.1	23.2	3	1,398	27	182.3	181.5	259.4	252.5	177.8	87.2
Channel	209-85VT3P	VT3P	AC,P5V	109	189.5	24.3	4	1,387	30	169.9	181.0	264.6	262.9	159.3	99.2
Trelay	7VP104	VT3P	AC,P5V	107	187.6	20.6	4	1,394	29	198.8	141.3	260.5	257.5	165.9	101.6
Pioneer	P0621HR CK	HX,RR2	MQ,P1V	106	177.2	20.4	6	1,318	48	170.9	135.7	245.5	242.4	163.4	105.1
Test Average =					189.6	22.8	5	1,397		184.6	170.3	253.8	254.0	173.2	101.8
LSD (0.10) =					14.7	1.0	ns			15.8	24.1	12.3	16.1	14.7	17.9



Corn Field Notes: Illinois North

Jason Beyers, F.I.R.S.T. Manager

Corn Stats:

Yield Range: 99.5-164.8 bu. per acre
 Yield Average: 135.9 bu. per acre
 Top \$ Per Acre: \$1,209.00

Grand Ridge—This location started off with ideal soil conditions and favorable weather following planting and continuing until growth stage V5, but that was followed by an extreme shortage of rainfall. Early-season hybrids suffered the most during pollination with less than an inch of rain in July. An instrumental rain came later, helping the full-season corn. The soil type in this plot exhibits very strong water-holding capacity which helped to achieve the yield levels present; the ultra-early test averaged 144.4 bu. per acre, the early-season test averaged 197.5 bu. per acre, and the full-season test averaged 211.5 bu. per acre. All lodging noted was due to stalk lodging, and there was stalk rot present in several hybrids. Overall, it was surprising that yield levels of some hybrids were as high as they were.

Malta—Early emergence here was excellent; corn had a dark green color and was uniform in height when corn was 18" tall. Early-season rainfalls aided in this

good start, but then June and July experienced limited rainfall. It was evident by looking at ear samples that the earlier-maturing hybrids suffered at pollination time. The later hybrids received a timely rain to help with kernel set. Most hybrids experienced a good kernel-fill period. There was very little disease present and stalk quality was excellent during harvest.

Mazon—Planting conditions here in Mazon were excellent; the corn emerged evenly and looked really promising until after growth stage V5, when the faucet turned off. Rainfall was limited the rest of the season. All hybrids were short in stature and most ears were lucky to have a few kernels on them. As you can see in the photo, the ears that did pollinate fairly well showed signs of mold growing on them. All lodging present was stalk lodging; they had simply cannibalized themselves.

Sublette—This location received a fair amount of rainfall during the season compared to surround-

ing counties. A mid-season storm caused some root lodging, which are the numbers that you see in the report. There was some mold present on some of the ears at the time of harvest, as well as small amounts of leaf blight. Pollination on the earlier-season hybrids was not as uniform as on the full-season ones. Plant health overall was still pretty good, but some hybrids were demonstrating some weak ear shanks. Most hybrids had good kernel fill with nice, sturdy cobs.

Walnut—Early emergence was good here with only a few hybrids



Photo courtesy of Jason Beyers

Hybrids tested at Mazon, Ill. were short and most ears had very few kernels. However, ears that did pollinate well often had mold issues.

Site Information						2012 Rainfall (inches)*					
						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Grand Ridge	silty clay loam	conventional	corn, 2+ yr	234	4/18	5.45	2.88	0.72	2.80	-3.65	-0.84
Malta	silty clay loam	conventional	corn, 2+ yr	250	4/24	1.49	2.33	2.17	1.93	-2.20	-2.43
Mazon	silty clay loam	minimum	soybean	196	4/19	4.82	2.34	0.79	3.68	-3.21	0.18
Sublette	silty clay loam	conventional	corn, 2+ yr	260	4/20	2.66	2.28	1.76	3.38	-2.47	-0.71
Walnut	silt loam	conventional	corn, 2+ yr	135	4/18	2.49	2.57	0.94	3.09	-2.91	-1.35
Winnebago	silt loam	conventional	corn, 2+ yr	254	4/25	3.78	1.24	2.09	1.06	-2.18	-3.55

*Rainfall estimates provided by Telvent. Grower supplied rainfall data in field notes.

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



ULTRA-EARLY TEST 101-105 Day CRM

Top 30 of 48 tested

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Grand Ridge	Malta	Mazon	Sublette	Walnut	Winnebago
G2 Genetics	5H-0504^	HX,RR2	MQ,R,P1V	105	149.3	19.1	5	1,116	1	187.7	159.4	81.6	204.8	196.4	65.9
Golden Harvest	H-7891 3000GT	3000GT	CE,C2	103	146.3	16.9	13	1,104	2	167.3	170.7	76.7	205.0	184.4	73.6
Titan Pro	81A04GL	3000GT	MQ,C2	104	136.5	17.6	7	1,027	3	172.2	156.5	58.2	195.4	178.8	57.7
Great Lakes	5368VT3PRO	VT3P	AC,P5V	103	132.9	17.4	4	1,001	4	154.9	182.9	42.6	207.7	169.5	39.9
LG Seeds	LG552VT3Pro	VT3P	AC,P5V	103	131.6	17.9	6	989	6	151.0	168.6	54.7	196.3	181.4	37.7
Jung	7S555RIB	STX-R	AC,P5V	102	131.3	17.7	4	987	7	152.0	154.8	57.7	189.0	173.0	61.3
Beck	Beck 4536A3	3000GT	Es	101	130.6	15.9	9	989	5	157.1	153.7	65.1	187.1	152.5	67.8
Pioneer	P0533AM1	AM1,RR2	MQ,P1V	105	130.6	18.0	9	981	8	166.0	146.8	45.6	211.3	130.5	83.5
Steyer	10403VT3PRO	VT3P	MQ,C2	104	130.0	16.9	6	981	9	148.0	156.9	54.4	199.3	167.3	54.0
Beck	Beck 5114A4	3111	Es	105	128.2	16.8	6	967	10	149.0	143.2	62.0	179.7	148.2	87.1
NuTech	5N-803	3000GT	MQ,R,C2	103	128.0	18.3	7	960	12	135.3	164.9	50.3	192.2	185.4	40.1
Pfister	2333SS	STX	AVC,C2	104	127.8	17.2	4	963	11	132.2	147.9	59.4	203.4	158.9	64.9
Stone	5508RIB	STX-R	AC,P5V	105	124.9	17.7	3	939	14	139.3	160.9	35.4	193.0	161.1	59.8
Cornelius	C344VT3P	VT3P	CE,C2	102	124.5	16.6	6	940	13	166.1	154.5	51.5	186.0	127.8	61.0
FS InVISION	FS 53TV4	VT3P	AC,P2	103	124.5	16.9	9	939	15	136.2	165.2	41.7	180.3	158.0	65.8
Garst	87W74-3000GT	3000GT	CE,C2	102	124.2	16.5	8	938	16	147.7	118.9	81.1	164.2	167.4	65.8
Cornelius	C303SS	STX	CE,C2	101	123.2	16.7	4	930	17	145.1	182.2	53.2	167.7	149.9	41.0
Channel	203-43VT3P	VT3P	AC,P5V	103	122.5	17.3	6	923	19	153.4	136.9	49.7	174.5	171.8	48.9
Channel	204-06VT3P	VT3P	AC,P5V	104	122.5	17.7	8	921	20	160.6	145.9	63.9	164.8	129.9	69.8
Titan Pro	1M05-SS	STX	AC,P2	105	122.4	17.7	8	920	21	155.0	159.6	27.1	185.1	163.7	44.0
Pfister	2225RR	RR2	AC,P2	101	122.3	16.8	4	923	18	163.7	148.7	36.5	163.1	171.2	50.7
Channel	202-32STX	STX	AC,P5V	104	122.0	17.5	7	918	22	130.8	161.8	49.7	175.4	162.5	52.0
FS InVISION	FS 54VX1 RIB	STX-R	AC,P2	104	121.9	17.9	4	916	23	161.8	167.7	25.3	181.3	139.0	56.3
Cornelius	C447VT3	VT3	CE,C2	104	121.4	17.6	6	913	24	160.9	143.3	48.2	175.6	165.6	35.0
NuTech	5B-604	GT/CB/LL	MQ,R,C2	104	121.2	17.8	7	911	25	154.0	166.7	40.5	174.7	145.6	45.6
Jung	7V570	VT3P	AC,P5V	105	120.8	18.0	6	907	26	125.8	145.6	30.3	215.7	172.5	34.8
Renk	RK708SSTX	STX	AC,P2	105	119.8	18.2	7	899	27	140.3	182.7	50.6	157.2	130.7	57.5
NK Brand	N45P-4011	4011	MQ,C2	101	119.3	17.7	6	897	28	144.4	157.1	38.2	169.8	152.0	54.1
Steyer	10604-3000GT	3000GT	MQ,C2	105	118.4	17.9	7	890	29	153.5	130.0	44.5	157.7	169.7	55.2
AgriGold	A6359STXRIB	STX-R	AC,P5V	105	118.3	18.2	13	888	30	121.2	152.3	36.6	169.7	169.8	59.9
Test Average =					121.5	17.5	7	914		144.4	151.8	49.3	174.9	156.4	52.0
LSD (0.10) =					14.8	0.9	ns			23.9	16.3	17.4	21.0	18.6	11.0

EARLY-SEASON TEST 106-109 Day CRM

Top 30 of 60 tested

Renk	RK752SSTX	STX	AC,P2	106	159.6	20.5	8	1,187	1	213.4	180.3	69.6	237.7	174.1	82.3
Great Lakes	5884VT3PRO	VT3P	AC,P5V	108	157.3	20.4	3	1,170	2	252.4	165.0	55.2	214.0	194.7	62.3
Great Lakes	5939G3VT3	VT3	AC,P5V	109	154.7	22.5	4	1,141	4	227.1	175.2	35.2	214.7	201.2	74.5
AgriGold	A6458VT3	VT3	AC,P5V	109	154.5	22.3	5	1,140	5	228.2	178.5	34.2	232.5	180.8	72.5
FS InVISION	FS 59SV4	VT3P	AC,P2	109	154.2	22.0	7	1,140	6	217.4	155.9	41.8	236.5	200.0	73.3
LG Seeds	LG2549VT3	VT3	AC,P5V	109	154.1	22.0	3	1,139	7	231.2	169.5	45.9	188.6	208.2	80.9
Dyna-Gro	CX48VP76	VT3P	AC,P5V	108	153.8	20.6	4	1,143	3	220.9	183.1	54.5	209.3	183.7	71.0
Cornelius	C533SS	STX	CE,C2	107	153.1	20.6	11	1,138	8	227.2	165.8	48.3	204.8	201.3	71.3
Beck	XL 5475AMX^	AMX,RR2	Es	108	151.9	20.8	3	1,128	9	206.6	165.8	83.9	195.1	186.3	73.9
Stone	5913VT3	VT3	AC,P5V	109	151.1	22.4	7	1,115	11	231.0	177.5	34.4	222.9	200.2	35.7
Titan Pro	2M07-SS	STX	AC,P5V	107	150.3	20.6	10	1,117	10	212.4	166.1	46.0	218.0	180.7	78.5
Steyer	10901GENSS RIB	STX-R	MQ,C2	109	149.2	22.1	5	1,102	13	206.7	176.6	27.8	227.6	201.9	54.8
Trelay	6VP844	VT3P	AC,P5V	107	148.6	21.1	3	1,102	12	216.0	165.8	39.9	221.5	196.6	51.8
Channel	207-13VT3P	VT3P	AC,P5V	107	147.6	20.3	10	1,098	14	205.9	167.1	54.0	224.4	170.1	64.0
AgriGold	A6433VT3Pro	VT3P	AC,P5V	108	146.8	22.8	3	1,081	17	195.3	179.4	27.6	219.7	214.4	44.6
Great Lakes	5785VT3PRO	VT3P	AC,P5V	107	146.6	19.5	6	1,094	15	228.5	171.0	69.3	206.0	147.6	57.0
LG Seeds	LG5533VT3Pro	VT3P	AC,P5V	107	146.1	18.7	5	1,094	16	202.9	180.8	56.6	226.5	160.1	49.5
G2 Genetics	5H-309^	HX,RR2	MQ,R,P1V	109	145.7	22.4	3	1,075	19	191.9	165.1	43.8	232.1	189.3	51.7
Dyna-Gro	D49VP88	VT3P	AC,P5V	109	144.9	22.8	4	1,067	20	194.4	152.4	33.8	217.5	197.9	73.4
YIELDDirect	5E58-GENSS	STX	AC,P5	107	144.6	19.8	7	1,078	18	192.4	164.7	27.9	188.3	222.1	72.1
Steyer	10803GENSS	STX	MQ,C2	107	143.4	20.4	6	1,067	21	196.1	172.9	67.3	192.3	175.3	56.5
Renk	RK795VT3P	VT3P	AC,P2	108	142.3	23.2	4	1,047	29	177.9	160.1	40.6	214.0	191.1	69.9
Stone	5714GVT3P	VT3P	AC,P5V	107	142.0	19.3	6	1,061	22	196.8	151.3	41.7	210.6	196.6	54.8
Cornelius	C594VT3P	VT3P	CE,C2	109	141.7	21.0	6	1,051	25	206.5	172.7	48.5	199.4	171.4	51.9
Trelay	7VP104	VT3P	AC,P5V	107	141.1	19.6	7	1,053	24	210.2	150.0	51.4	218.3	158.5	58.3
AgriGold	A6408VT3Pro	VT3P	AC,P5V	107	140.8	18.5	6	1,055	23	186.1	177.4	68.9	222.0	139.7	50.5
Kruger	K-7306	VT3P	AC,P5V	106	140.7	19.7	7	1,050	26	189.3	165.7	87.3	203.1	124.4	74.5
Cornelius	C582SS	STX	CE,C2	108	140.6	20.8	5	1,044	30	215.0	158.9	18.3	227.3	197.0	27.2
G2 Genetics	5H-806^	HX,RR2	MQ,R,P1V	106	140.2	19.2	8	1,048	28	194.0	162.8	68.6	177.3	171.0	67.3
Stone	5724GVT3P	VT3P	AC,P5V	107	139.2	19.2	6	1,040	31	217.1	166.9	37.8	170.4	199.1	43.8
Pioneer	P0916AM1 CK	AM1,RR2	MQ,P1V	109	141.6	21.6	4	1,048	27	188.8	153.9	81.1	202.6	171.2	51.9
Test Average =					140.0	20.7	6	1,040		197.5	162.2	43.2	208.7	170.0	58.6
LSD (0.10) =					16.8	1.3	5			28.9	15.9	18.2	24.6	27.8	13.3



PONCHO®/VOTIVO® SEED TREATMENT BY BAYER

Bayer's Poncho®/VOTIVO® seed treatment protects young plants from pests during critical early development stages, leading to healthier root development and stronger stands. Applied directly to the seed, its systemic agent is absorbed by new roots immediately, never giving pests the opportunity to strike. Its revolutionary biological component – a unique bacteria strain that lives and grows with young roots – prevents nematodes from reaching the plant and causing damage.

Poncho/VOTIVO protects the whole plant, above and below ground, supporting healthier plant performance, improving vigor and positively impacting yield. The combination of a living barrier of protection with powerful control of critical early-season insects results in consistent defense of your crop from seed germination to plant establishment.

BENEFITS OF PONCHO/VOTIVO

CORN

- Controls black cutworms, wireworms and other important early-season insects.

- Systemic mode of action protects the entire plant, supporting healthier plant establishment.
- Living bacteria protects roots 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.
- Systemic mode of action protects the entire plant, supporting healthier plant establishment.
- Living bacteria protects roots 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.

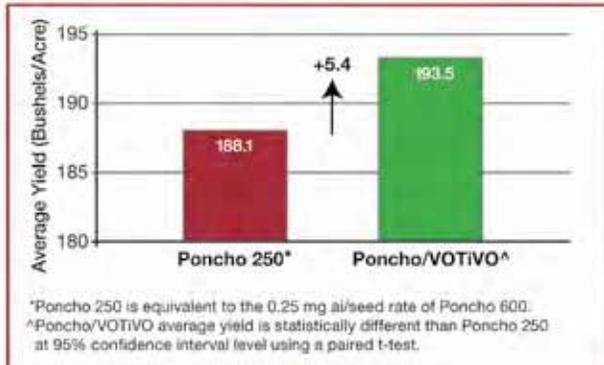


PONCHO

VOTIVO

RESEARCH IN CORN

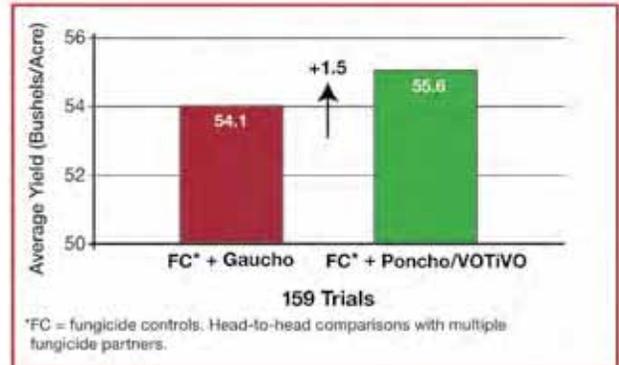
2007–2011 Poncho®/VOTIVO® Yield Enhancement over Poncho 250*



Poncho® 250 (left) vs. Poncho®/VOTIVO® (right)
Blue Earth, MN in June 2012 showing taller, fuller plants.

RESEARCH IN SOYBEANS

2010 and 2011 Poncho®/VOTIVO® Yield Enhancement over Gaucho®



Gaucho® + Trilex® (left) vs. Poncho®/VOTIVO® (right)
Sampson, NC, extremely high sting nematode population.

For more information, visit PonchoVOTIVO.us.

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



Bayer CropScience

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



FULL-SEASON TEST 110-113 Day CRM

Top 30 of 75 tested

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Grand Ridge	Malta	Mazon	Sublette	Walnut	Winnebago
AgriGold	A6533VT3	VT3	AC,P5V	113	164.8	23.8	8	1,209	1	242.7	186.0	37.0	221.6	196.2	105.4
LG Seeds	LG5618VT3Pro	VT3P	AC,P5V	112	161.4	22.6	6	1,190	2	234.4	174.5	48.8	228.5	207.1	74.8
LG Seeds	LG2620VT3	VT3	AC,P5V	113	160.6	24.1	7	1,177	3	234.8	190.6	38.4	222.3	172.9	104.6
Pfister	2574SS	STX	AVC,C2	110	159.2	22.1	8	1,176	4	213.5	174.8	54.9	227.5	169.0	115.6
Dairyland	DS9212Q	HXT,RR2	AVC,C2	112	158.8	23.9	11	1,165	6	207.6	185.5	67.0	227.2	175.9	89.6
Steyer	11208VT3PRO	VT3P	MQ,C2	111	158.2	21.5	5	1,172	5	225.4	177.5	61.5	218.1	170.4	96.4
Renk	RK858VT3P	VT3P	AC,P2	113	157.5	25.7	7	1,146	10	233.0	167.0	36.5	228.9	199.3	80.5
Croplan	6640VT3PRO	VT3P	AC,P2,Z	113	157.1	23.0	8	1,156	7	238.2	179.4	48.4	203.5	198.9	74.2
Golden Harvest	H-8969 3122	3122	CE,C2	111	156.6	22.6	5	1,155	8	218.6	185.3	38.4	224.0	194.2	79.1
FS InVISION	FS 61BX1 RIB	STX-R	AC,P2	111	156.3	22.4	5	1,153	9	227.7	177.9	33.0	255.7	156.5	86.9
Channel	213-40VT3P	VT3P	AC,P5V	113	156.1	24.3	5	1,143	11	213.7	157.7	75.7	225.1	181.2	83.4
Stine	9733VT3Pro	VT3P	AC,P2	113	155.7	24.2	8	1,140	13	217.1	181.6	36.9	227.1	176.1	95.6
Pfister	2660GT	3000GT	AVC,C2	110	155.0	22.9	7	1,141	12	213.6	159.2	43.8	232.9	188.1	92.3
Steyer	11203-3000GT	3000GT	MQ,C2	112	154.9	23.0	5	1,140	14	212.1	165.7	40.1	242.2	203.7	65.7
FS InVISION	FS 62MV4	VT3P	AC,P2	112	154.1	25.4	5	1,123	17	213.2	184.8	46.0	237.6	155.6	87.4
Beck	Beck 5509A3	3000GT	Es	110	153.4	22.6	5	1,131	15	212.6	163.3	36.4	228.1	223.1	57.0
Great Lakes	6087VT3PRO	VT3P	AC,P5V	110	152.7	23.5	6	1,122	18	227.3	174.8	48.3	214.0	179.9	71.6
Kruger	K4R-9710	STX-R	AC,P5V	110	152.4	23.3	6	1,120	19	195.3	160.0	42.0	202.8	220.3	93.8
Dyna-Gro	D51VP32	VT3P	AC,P5V	111	152.3	21.1	7	1,130	16	222.3	182.6	56.1	231.7	135.4	85.9
Great Lakes	6232VT3PRO	VT3P	AC,P5V	112	152.2	24.4	5	1,114	20	226.6	163.5	26.8	243.2	202.4	50.9
Channel	211-99VT3P	VT3P	AC,P5V	111	151.4	23.2	13	1,113	21	216.3	168.5	43.6	248.4	165.6	65.9
Dyna-Gro	CX52VP91	VT3P	AC,P5V	112	150.6	22.4	7	1,111	22	232.7	177.4	50.4	233.4	110.4	99.0
Renk	RK880STX RIB	STX-R	AC,P2	112	150.5	22.5	4	1,110	24	182.4	162.9	35.0	234.3	195.1	93.5
Kruger	K-7911	VT3P	AC,P5V	111	150.4	22.2	8	1,111	23	211.3	179.5	47.9	219.7	169.9	80.0
LG Seeds	LG2602VT3Pro	VT3P	AC,P5V	112	149.8	25.1	5	1,093	30	243.9	169.6	28.2	231.3	145.9	79.9
Croplan	6265VT3PRO	VT3P	AC,P2,Z	112	149.3	23.9	8	1,095	27	213.2	169.8	56.7	226.8	158.3	70.7
Steyer	11004GENSS	STX	MQ,C2	110	149.1	22.8	6	1,098	25	243.7	160.0	47.5	212.1	166.1	65.1
Great Lakes	6354G3VT3	VT3	AC,P5V	113	149.1	23.8	6	1,094	28	229.1	163.4	42.2	219.7	131.3	108.6
Stine	9732VT3Pro	VT3P	AC,P2	111	149.0	22.8	4	1,098	26	212.7	169.5	38.6	204.6	181.2	87.5
Stone	6134GVT3P	VT3P	AC,P5V	111	147.7	21.5	8	1,094	29	201.8	171.8	64.8	224.9	173.2	49.4
Pioneer	P0916AM1 CK	AM1,RR2	MQ,P1V	109	142.9	22.1	6	1,056	45	190.5	154.1	77.3	197.4	174.6	63.3
Test Average =					146.1	23.4	6	1,073		211.5	165.1	41.4	214.7	167.0	76.7
LSD (0.10) =					16.0	1.3	ns			24.5	16.4	22.6	22.6	24.3	16.4

that struggled with the early planting date. All the hybrids had good color and appearance at growth stage V4. As in much of the country, June and July produced very little rainfall. A mid-season wind caused a fair amount of hybrids to have some root lodging and be goose-necked at the time of harvest. There was evidence of some stalk rot and a multitude of leaf diseases were present as well. Yields at this location (averaging 156.4, 170.0 and 167.0

bu. per acre in the ultra-early, early and full-season tests, respectively) were surprising after all the stress the corn endured this growing season.

Winnebago—Planting conditions here were ideal and corn was off to a great start. I visited the plot around growth stage V5 and everything was nice and uniform. Then Mother Nature took her toll on the field. Rainfall was limited during June and July. A late-July rain helped with the pollination of the full-

season hybrids, but the damage was already done on the earlier-season hybrids. Plant health at harvest was still good, with any lodging scores reflecting stalk lodging. There was some evidence of anthracnose and leaf blight present. It was just a challenging year in this area. The yields at this test site averaged only 52 bu. per acre in the ultra-early test, 58.6 bu. per acre in the early-season test, and 76.7 bu. per acre in the full-season test.

Site Information						2012 Rainfall (inches)*					
Illinois North						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Grand Ridge	silty clay loam	conventional	corn, 2+ yr	234	4/18	5.45	2.88	0.72	2.80	-3.65	-0.84
Malta	silty clay loam	conventional	corn, 2+ yr	250	4/24	1.49	2.33	2.17	1.93	-2.20	-2.43
Mazon	silty clay loam	minimum	soybean	196	4/19	4.82	2.34	0.79	3.68	-3.21	0.18
Sublette	silty clay loam	conventional	corn, 2+ yr	260	4/20	2.66	2.28	1.76	3.38	-2.47	-0.71
Walnut	silt loam	conventional	corn, 2+ yr	135	4/18	2.49	2.57	0.94	3.09	-2.91	-1.35
Winnebago	silt loam	conventional	corn, 2+ yr	254	4/25	3.78	1.24	2.09	1.06	-2.18	-3.55

*Rainfall estimates provided by Telvent. Grower supplied rainfall data in field notes.

PONCHO®/VOTIVO® SIGNIFICANTLY INCREASES SOYBEAN YIELD FOR IOWA FARMER

Bayer CropScience's Poncho/VOTiVO Seed Treatment Strengthens Crops

For more than three decades, Bob Mehmert has been growing corn and soybeans on his 700-acre farm in West Point, Iowa. Mehmert Farms is family-owned and splits the acreage between corn and soybeans and rotates the crops every year.

For the 2012 growing season, Mehmert's seed salesman discussed treating some of his soybeans with Bayer CropScience's Poncho®/VOTiVO® seed treatment. Mehmert had never used a seed treatment before but was willing to try a mini-bulk (50 bags) of soybean seed treated with Poncho/VOTiVO.

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

It contains a unique strain of bacteria that, upon seed germination, begins to grow and multiply. The bacteria continue to increase with the developing plant, blocking nematodes, including the soybean cyst nematode (SCN), from reaching the root surface, thereby protecting the plant's roots from damage. The insecticide component of Poncho/VOTiVO also provides fast-acting, long-lasting insect control for pests, such as early-season aphids, overwintering bean leaf beetles, grape colaspis, seed corn maggots and wireworms, which are commonly found in soybeans.

Poncho/VOTiVO's control and suppression of damaging pests and unique combination of an insecticide and biological seed treatment represent exciting proof points of Bayer CropScience's commitment to cultivating ideas and answers.

"When my seed salesman approached me about using Poncho/VOTiVO on my soybeans this year, I viewed it as just another gimmick," stated Mehmert. "However, I was willing to give it a try on about 50 acres out of 130 acres of my soybeans."

Mehmert planted the Poncho/VOTiVO-treated soybean seeds next to the untreated soybean seeds. This allowed for a



side-by-side comparison in the field where all the growing conditions and cultural practices were the same – the only difference was Poncho/VOTiVO. And, the comparison between the Poncho/VOTiVO soybeans and untreated soybeans was unmistakable.

"Before I even harvested with my combine, it was unreal to see the line of Poncho/VOTiVO-treated crops that looked healthier and were taller than the untreated crops – even my 11-year-old son could tell the difference," stated Mehmert. "The stem quality of the Poncho/VOTiVO soybeans was so much better than the untreated soybeans. The stems of the treated soybeans didn't have any dead spots, and you could tell that the root system was better."

He harvested the soybeans mid-October and was amazed when he noticed the combine's yield monitor results. "In the untreated soybeans, there was 11 to 12.5 percent moisture, but in the Poncho/VOTiVO soybeans, the crops were about two percent wetter – running at 14 to 15.5 percent moisture," stated Mehmert. "The most impressive and exciting finding was that the combine was showing that the Poncho/VOTiVO soybeans produced 10 to 12 bushels per acre more than the untreated soybeans."

Mehmert had been hesitant to purchase Poncho/VOTiVO, but soon realized that just half a bushel of added yield paid for the seed treatment. And, after this year's drought, he is looking forward to seeing what Poncho/VOTiVO will do for his soybeans in a wet year.

"Next year, we are supposed to go into an El Niño weather pattern, which produces more rain. And in wet years, we experience more diseases in soybeans," stated Mehmert. "Because of the success I had with the Poncho/VOTiVO soybeans this growing season, I'm planning on using Poncho/VOTiVO on all of my soybeans, and I'm really anticipating what I will see next year with a different type of weather pattern."

For more information about Poncho/VOTiVO, visit www.BayerCropScience.us or contact your local sales representative for product information.



Rich Schleuning, F.I.R.S.T. Manager



Corn Field Notes: Michigan Thumb

Corn Stats:

Yield Range: 156.6-200.1 bu. per acre
Yield Average: 179.5 bu. per acre
Top \$ Per Acre: \$1,440.20

Breckenridge—This location's crop reached full maturity with nice drydown. The season's drought and high temperatures were not an issue here. The crop was planted later (May 17) but got off to a good start with uniform emergence. The crop pollinated after the high temperatures in late June. Josh Humm, F.I.R.S.T. farmer, had nice grain quality with good kernel depth, making it easy to shell off the cob. This was just an all-around nice plot. Humm's test averaged 185.8 bu. per acre.

Brown City—A final stand of 31,500 was short of the 36,000 seeds that were dropped. A reduced stand may have been a blessing with the stress level associated with this season. Stalk quality was good with no disease present. The Brown City test site had good grain quality and moisture for this time of the year. F.I.R.S.T. farmer Dwight Bartle provided on-site monthly rainfall totals of 1.2"

in April, 2.9" in May, 1.2" in June, 4.6" in July, 4" in August and 2.9" in September. The average yield here was 173.2 bu. per acre.

Davison—One thing you can count on in Michigan is deer. Deer feeding kept corn on the back replication (which was ultimately removed from the location data summary) of the test plot knee-high all season, and then they started to roam into the rest of the plot. Stalk quality and grain quality were good, with no disease or ear rot. The drought affected this area early in the summer but not as severely as areas further south. Grain moistures were nice for this time of year. We were lucky to get the plot

out before Hurricane Sandy hit. F.I.R.S.T. farmer Bill Hunt was able to produce an average of 141.8 bu. per acre on this test site.

Freeland—On the second attempt to harvest this location we were able to get it done; standing water made the first attempt impossible. In late July, John Wartz, F.I.R.S.T. farmer, measured 12" of rain in one day and timely rain the rest of the season. We were so glad to harvest this location before Hurricane Sandy hit this area. Plant health and grain quality were excellent with no disease present. Wartz was able to produce an average of 177.9 bu. per acre on this all-season test site.

Photo courtesy of Jason Beyers



The weigh bucket (above), located in the combine grain tank, measures grain weight and moisture used to determine product yield.



Photo courtesy of Rich Schleuning

The Henderson, Mich. test turned out well. This photo taken July 26 shows healthy plants with long ears and complete kernel set. Yield averaged 200.3 bu. per acre here.

F.I.R.S.T. Michigan Thumb Corn Results



ALL-SEASON TEST 92-101 Day CRM

Top 30 of 45 tested

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Breckenridge	Brown City	Davison‡	Freeland	Henderson	Peck‡
NuTech Channel	5N-001 197-67VT3P	3000GT VT3P	MQ,R,C2 AC,P5V	101 97	200.1 198.8	23.1 22.9	0 0	1,440 1,432	1 3	210.0 215.4	186.2 202.2	181.6 148.5	202.5 208.5	222.7 219.1	197.8 199.2
Great Lakes	4879VT3PRO	VT3P	AC,P5V	98	198.6	21.5	0	1,437	2	199.1	192.9	170.0	188.3	208.6	232.4
G2 Genetics	5H-399^	HX,RR2	MQ,R,P1V	99	194.1	24.4	0	1,391	5	210.5	189.9	147.1	187.5	226.5	203.3
Dairyland	DS9399	3000GT	AVC,C2	99	192.8	22.5	1	1,391	6	200.5	180.5	160.2	191.0	223.4	201.1
Rupp	xr8264	3111	CE,C2	92	192.7	19.3	0	1,405	4	208.9	193.0	144.9	172.0	224.3	213.0
G2 Genetics	5Z-198^	OI,RR2	MQ,R,P1V	98	191.3	21.7	0	1,384	7	199.4	178.3	148.0	193.3	215.8	213.2
Renk	RK568VT3P	VT3P	AC,P2	95	191.1	21.8	0	1,382	8	190.1	196.2	156.9	191.0	211.1	201.2
NuTech	5N-197	3000GT	MQ,R,C2	97	188.8	22.3	0	1,363	10	178.1	164.1	164.4	198.5	218.6	209.1
Renk	RK585VT3P	VT3P	AC,P2	97	187.8	20.3	0	1,365	9	185.2	190.6	143.2	198.8	202.2	207.0
G2 Genetics	5X-895^	HXT,RR2	MQ,R,C2	97	187.6	22.5	0	1,353	13	189.3	178.5	146.6	181.9	205.6	223.9
Channel	196-06VT3P	VT3P	AC,P5V	96	187.5	21.9	0	1,355	12	193.7	182.2	157.2	181.1	216.5	194.3
Rupp	xrT94-06	VT3P	AC,P2	94	187.4	21.7	0	1,355	11	208.9	184.0	137.7	176.4	215.0	202.2
Rupp	xrT97-06	3111	CE,C2	100	184.6	22.6	0	1,331	14	180.8	192.5	148.8	186.8	203.6	195.2
Renk	RK598VT3P	VT3P	AC,P2	100	183.6	22.0	0	1,327	15	193.8	183.2	149.4	175.0	207.5	192.7
Great Lakes	5015VT3PRO	VT3P	AC,P5V	100	183.4	22.0	0	1,325	16	177.8	189.4	135.0	181.3	203.8	212.8
Renk	RK629VT3P	VT3P	AC,P2	101	183.0	23.4	0	1,316	18	203.6	174.4	142.5	177.3	208.1	192.0
Stine	9417VT3	VT3	AC,P2	98	182.7	21.9	0	1,321	17	196.8	181.9	141.7	189.8	187.3	198.4
Steyer	10002GENSS RIB	STX-R	MQ,C2	100	182.5	23.1	0	1,314	19	197.4	177.4	153.4	174.6	191.9	200.3
NuTech	5N-798	3000GT	MX,C2	98	181.4	21.5	0	1,313	20	179.8	184.6	146.9	159.0	210.2	208.0
Steyer	9503-3000GT	3000GT	MQ,C2	99	180.7	22.3	0	1,304	21	197.8	167.3	143.5	169.2	209.1	197.3
Hyland	HL CVR68	VT3	P2	96	180.0	22.2	0	1,300	22	182.8	172.3	141.7	182.0	201.0	200.4
Dairyland	DS9501SSX	STX	AVC,C2	101	178.7	21.3	0	1,294	23	179.1	174.1	139.8	184.0	204.2	190.8
Rupp	xr8701	VT2P-R	AC,P2	101	177.8	21.3	0	1,288	24	180.0	179.1	152.7	163.9	190.1	200.8
Renk	RK580STX RIB	STX-R	AC,P2	98	177.5	22.3	0	1,281	26	192.3	160.2	150.1	176.9	195.4	190.1
Renk	RK578VT3P	VT3P	AC,P2	96	176.9	20.1	0	1,287	25	182.5	163.8	141.2	189.9	201.0	183.1
Hyland	8486	STX	P2	100	176.0	20.5	0	1,278	28	180.5	153.9	137.1	175.0	198.4	211.1
G2 Genetics	5X-193^	HXT,RR2	MQ,R,P1V	93	175.9	20.6	0	1,277	29	184.3	179.2	136.2	170.9	185.9	198.8
G2 Genetics	5X-795^	HXT,RR2	MQ,R,C2	94	175.7	19.6	0	1,280	27	185.4	192.8	126.6	155.8	195.3	198.2
Stine	9422VT3Pro	VT3P	AC,P2	96	175.3	20.1	0	1,275	30	181.8	166.5	135.2	180.7	185.5	201.8
Test Average =					179.5	21.4	0	1,299		185.8	173.2	141.8	177.9	200.3	197.9
LSD (0.10) =					10.3	0.9	1			15.6	21.2	24.3	19.5	13.1	22.1
‡ = 2 replications															

Henderson—We decided to wait on planting due to the cold early spring conditions because Charlie Guziak, F.I.R.S.T. farmer, had to thaw his planter out after a hard freeze. We planted on May 17. Overall this was an all-around nice plot. Plants here were well over 10' tall with ears at least 5' off the ground. With the high summer heat, plants had reached full

maturity before the first frost. We harvested this Shiawassee County test plot on Oct. 25 and were able to produce an average of 200.3 bu. per acre.

Peck—Final stand here was good considering the challenging spring conditions that we had this year. Plant health was good at harvest as the crop was still green. Headline was applied alone

at growth stage V5 for disease control and then was tank-mixed with Warrior for rootworm beetle control and applied again at brown silk. Mark Johnston, F.I.R.S.T. farmer, supplied the following monthly rainfall totals: 1.3" in April, 2.6" in May, 1.5" in July, 3.6" in August and 2.8" in September. The average yield from this Peck test plot was 197.9 bu. per acre.

Site Information						2012 Rainfall (inches)*					
Michigan Thumb						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Breckenridge	sandy loam	conventional	soybean	282	5/17	2.06	2.58	5.78	6.08	3.01	2.63
Brown City	clay loam	conventional	wheat	188	5/3	3.40	1.75	2.73	2.04	-0.30	-1.00
Davison	sandy clay loam	conventional	soybean	172	5/18	4.02	1.26	2.81	2.56	-0.33	-0.63
Freeland	sandy clay loam	no-till	soybean	178	5/18	3.51	2.54	4.39	8.49	1.81	5.18
Henderson	loamy sand	conventional	soybean	162	5/17	4.94	1.84	3.72	3.09	0.60	-0.11
Peck	sandy loam	conventional	corn, 2+ yr	198	5/15	3.03	1.62	2.52	2.56	-0.23	-0.69

*Rainfall estimates provided by Telvent. Grower supplied rainfall data in field notes.



Rich Schleuning, F.I.R.S.T. Manager



Corn Field Notes: Michigan South

Corn Stats:

Yield Range: 116.8-154.5 bu. per acre

Yield Average: 135.5 bu. per acre

Top \$ Per Acre: \$1,112.00

Charlotte—This was a tough year to reach the target population, yet a good year not to have a thick stand at this May 17 planted location. The final stand was 31,000 out of 34,500 seeds planted. Jim & Dennis Orr, F.I.R.S.T. farmers, had yields that were better than expected, as the site caught a good shower in July. Grain moisture was high as plants were rejuvenated by August rain. Plant health, stalk quality and grain quality were good. This plot averaged 131.1 bu. per acre.

Decatur—A cool and damp spring delayed planting until mid-May. The later planting date was a good thing as pollination missed the extreme heat in late June and early July. F.I.R.S.T. farmer Mike Stamp had great grain and stalk quality with no disease present. Even with irrigation, yield variance across the field was still present. Stamp produced an average of 170.1 bu. per acre on this test location.

Marshall—The drought shortened the crop height to a maximum of 5'9" on the Marshall test plot. Ear placement was knee-high or shorter. There was fusarium and penicillium ear rot present as well. Kernel red streak was present from all the stress. Raccoons destroyed two replications of a couple hybrids, eliminating them from the report. In short, this test had many significant stresses that factor into the

low yields. The final yield average was only 62.7 bu. per acre with the best results at 79.4 bu. per acre for this test plot.

Mason—A later-than-normal planting date (May 16) allowed the pollination window to miss the extreme heat. This location did have some hail damage early in the season. The crop was standing well at harvest, but a bump test showed stalk quality starting to deteriorate. The grain color was good and the kernels were set deep with a hard cob. Tony Igl, F.I.R.S.T. farmer, had a stand of 30,500 out of 33,000 seeds planted and no lodging was present. The average yield of this test site was 137.3 bu. per acre.

Reading—This test plot, which was planted on May 2, had ear

sizes varying from 14 to 18 kernels around and 16 to 28 kernels long. Tom Schroeder, F.I.R.S.T. farmer, said plant height was from 4' to 6.5' tall. Ear placement was low with some only 18" from the ground, as you can see by the picture on the next page. Late-season grass was an issue in the area due to above-normal sunlight levels at the soil surface, caused by drought-stress-related short corn height and poor canopy closure. Plant health was good, with good ear retention. Yields averaged 134.3 bu. per acre.

Riga—The Riga test site, planted the earliest in this region, on May 1, was in an area that lacked rain and had an abundance of heat throughout the growing season. Yields were better than



Photos courtesy of Rich Schleuning

The Reading test plot had varied plant height ranging from 4' to 6.5' tall. Late-season grass became an issue because the canopy never closed.

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



ALL-SEASON TEST 96-105 Day CRM

Top 30 of 48 tested

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Charlotte	Decatur	Marshall*	Mason	Reading	Riga
NuTech	5N-001	3000GT	MQ,R,C2	101	154.5	23.1	0	1,112	1	152.8	175.6	61.0	147.1	152.4	144.6
NuTech	5B-604	GT/CB/LL	MQ,R,C2	104	154.0	24.7	0	1,102	2	139.8	180.0	72.7	149.7	171.2	129.5
G2 Genetics	5X-0004^	HXT,RR2	MQ,R,P1V	100	153.0	23.3	0	1,101	3	144.0	171.0	72.2	165.1	173.9	110.8
Steyer	10604-3000GT	3000GT	MQ,C2	105	146.5	27.5	0	1,038	8	145.6	182.8	64.6	163.2	124.4	116.3
Channel	203-43VT3P	VT3P	AC,P5V	103	146.2	24.3	0	1,048	5	143.3	190.1	64.5	137.1	157.5	103.1
G2 Genetics	5H-0504^	HX,RR2	MQ,R,P1V	105	145.8	23.7	0	1,047	6	142.1	165.0	75.9	143.3	162.0	116.5
Steyer	10403VT3PRO	VT3P	MQ,C2	104	145.3	24.9	0	1,039	7	119.3	217.1	74.1	137.3	138.0	114.8
G2 Genetics	5Z-198^	OL,RR2	MQ,R,P1V	98	145.0	20.6	0	1,053	4	137.9	185.5	55.6	145.9	150.1	105.6
Great Lakes	4727STXRIB	STX-R	AC,P5V	97	142.3	21.9	0	1,029	9	135.2	177.8	72.5	156.6	143.7	98.2
Great Lakes	5368VT3PRO	VT3P	AC,P5V	103	142.0	25.8	0	1,013	10	126.3	195.4	65.7	138.6	137.1	112.6
Great Lakes	5339GT3	3000GT	AC,P5V	103	141.2	26.2	0	1,005	12	144.1	163.6	71.1	135.3	149.9	112.9
AgriGold	A6323GT3	3000GT	AC,P5V	103	141.1	26.5	0	1,004	13	130.4	167.8	65.2	140.7	156.4	110.4
Channel	200-91VT3P	VT3P	AC,P5V	100	140.8	24.3	0	1,009	11	142.9	182.9	58.2	138.9	116.3	122.8
Rupp	xr8239	VT3P	AC,P2	103	139.3	26.2	0	992	16	139.3	194.7	68.6	134.7	131.4	96.3
AgriGold	A6384VT3Pro	VT3P	AC,P5V	106	139.1	27.6	0	986	20	137.7	204.7	48.3	126.0	108.3	118.7
AgriGold	A6252VT3Pro	VT3P	AC,P5V	100	139.0	22.2	0	1,004	14	146.5	160.4	69.0	135.6	148.2	104.5
Channel	197-67VT3P	VT3P	AC,P5V	97	138.8	24.4	0	995	15	150.1	163.1	62.7	136.9	143.3	100.6
G2 Genetics	5Z-802^	OL,RR2	MQ,R,P1V	102	138.1	24.8	0	988	19	120.8	162.8	61.2	140.4	152.7	113.6
Dairyland	DS9303SSX	STX	AVC,C2	103	137.9	24.3	0	988	18	130.9	179.8	78.6	139.2	131.0	108.6
Rupp	xr8414	STX	AC,P2	101	137.6	25.0	0	984	21	128.0	174.4	59.8	132.5	140.9	112.2
AgriGold	A6276VT3	VT3	AC,P5V	101	137.3	24.5	0	983	22	122.2	178.6	67.9	131.8	157.1	96.6
G2 Genetics	5H-399^	HX,RR2	MQ,R,P1V	99	137.2	22.7	0	989	17	136.3	172.7	61.7	146.7	137.3	92.9
Channel	202-32STX	STX	AC,P5V	104	136.3	26.7	0	969	24	126.1	177.8	79.4	137.6	137.3	102.7
Renk	RK598VT3P	VT3P	AC,P2	100	136.1	22.9	0	980	23	131.2	171.9	55.1	147.3	128.1	102.1
Steyer	10201-3111	3111	MQ,C2	102	135.2	24.6	0	968	25	125.0	194.0	54.5	137.8	137.5	81.6
AgriGold	A6389VT3Pro	VT3P	AC,P5V	105	134.5	28.2	0	951	29	133.2	198.8	52.5	126.3	99.9	114.3
G2 Genetics	5H-202^	HX,RR2	MQ,R,P1V	102	134.2	23.0	0	966	26	137.2	178.2	52.5	130.2	127.3	98.1
NuTech	5N-798	3000GT	MX,C2	98	133.4	21.3	0	966	27	138.1	178.4	52.6	132.4	112.3	105.8
Rupp	xrT97-06	3111	CE,C2	100	131.5	21.6	0	951	28	141.9	158.6	61.7	140.7	133.5	82.8
G2 Genetics	5X-895^	HXT,RR2	MQ,R,C2	97	131.4	22.5	0	948	30	140.1	166.3	54.4	132.2	138.6	80.0
Test Average =					135.5	24.0	0	972		131.1	170.1	62.7	137.3	134.3	104.7
LSD (0.10) =					12.7	1.5	ns			16.1	28.3	10.1	15.6	34.2	21.6
* = not included in summary, damage from wildlife															

thought possible based on a July 25 visit. Ear size was 14 kernels to 20 kernels around and 18 kernels to 28 kernels long. Grain quality was fair, as color was a pale yellow with light test weight. As you walked a row, you could find good ears, but there were also barren stalks. Plant health was good and the crop stood perfectly at harvest. The average yield here was 104.7 bu. per acre.



The ears hung low on the Reading test plot this year. Some ears were only 18" from the ground, although ear retention was good for most of the plot.

Site Information						2012 Rainfall (inches)*					
Michigan South						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Charlotte	sandy clay loam	no-till	soybean	164	5/17	2.63	1.20	1.64	1.61	-1.41	-1.77
Decatur	sandy loam	conventional	corn, 2+ yr	214	5/18	2.20	1.37	2.96	3.31	-1.42	-0.74
Marshall	sandy clay	no-till	soybean	176	5/2	1.08	0.87	1.73	1.66	-2.41	-2.05
Mason	clay loam	no-till	corn, 2+ yr	170	5/16	3.16	1.76	2.25	1.66	-1.01	-1.64
Reading	sandy loam	conventional	soybean	164	5/2	2.43	0.79	4.03	4.54	0.24	0.71
Riga	loam	no-till	clover	170	5/1	1.92	2.36	0.96	2.83	-2.51	-0.67

*Rainfall estimates provided by Telvent. Grower supplied rainfall data in field notes.



Corn Stats:

Yield Range: 114.6-178.7 bu. per acre
 Yield Average: 154.1 bu. per acre
 Top \$ Per Acre: \$1,323.70

Corn Field Notes: Indiana North

Rich Schleuning, F.I.R.S.T. Manager

Howe—Overall, F.I.R.S.T. farmer John Larimer had a good-looking crop. Heights were normal, with no disease present. There was light insect feeding on ear tips. Grain quality was good, but soft cobs made it difficult to shell off grain without breakage. At planting soil moisture was variable, as evaporation was high, so some seeds were placed into dry soil, which led to variable emergence and population. Yields averaged 183 bu. per acre in the early-season test and 187.2 bu. per acre in the full-season test.

La Crosse—The drought made a difference in ear size and grain fill. Plant heights were anywhere from 5.5' to 7' tall with stalks of a lesser quality than typical years. Ear size varied, with tip-back of 2"-plus along with zipper effect. Ears had 12 to 16 kernels around and were 10 to 20 kernels long. Some stalks were completely barren. Kernel depth and cob quality was good. The surrounding field averaged 120 bu. per acre while the test itself averaged about 104 bu. per acre.

Monroe—This crop got off to a great start, but then the drought took hold. Plant heights varied from 4' to 5'10". The crop stood well considering the Oct. 22 harvest and drought stress. When there were ears, they varied from 12 to 16 kernels around and 14 to 30 kernels long. Some fusarium ear rot and light aspergillus ear rot were present. Yields in the early test averaged 107 bu. per acre while the highly variable full-season test was rejected.

South Bend—This was a nice plot to harvest. This site is under irrigation, but the area received good timely rains. Crop stress was minimal, with very light ear tip-back. We had good plant health and kernel set. Grain test weight ranged from 57 lbs. to 60.5 lbs.

Wolcott—There was a soil compaction issue here from when lime was applied six years ago. In a normal year this would have not shown up; when we laid out the test plot we thought we were far enough away. The front and back ends of the early test were impacted by compac-

tion and ultimately rejected. The back two-thirds of the full-season test were good with better-than-expected yield. Bruce Furrer, F.I.R.S.T. farmer, commented on how variable yields were. The drought made for poor pollination with ear tip-back. Stalk quality was good with light lodging. Some rust was present. In heavily compacted areas, ears ranged from nonexistent to 12 kernels around and 14 kernels long.

Woodburn—This crop got off to a great start but extreme heat and lack of rain took away yield potential. Crop height was short with the tallest at 5'9"; some ears were only knee-high. Rex Coomer, F.I.R.S.T. farmer, supplied the following rain totals: 1.5" in April, 0.74" in May, 0.72" in June, 1" in July, 3.6" in August and 4.22" in September. Ear retention was poor on some hybrids; ears had dropped or would drop if bumped. Plant health was good, but some fusarium ear rot and aspergillus ear rot were present. Data quality was better than expected for a drought year.

Site Information Indiana North						2012 Rainfall (inches)*					
						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Howe	sandy loam	conventional	soybean	173	5/11	0.89	1.08	2.29	4.01	-1.60	-0.04
La Crosse	sandy loam	conventional	soybean	188	4/17	2.77	3.20	2.49	2.39	-1.82	-1.69
Monroe	silty clay loam	conventional	corn, 2+ yr	235	4/18	2.79	1.01	3.58	6.49	-0.81	2.74
South Bend	sandy clay	strip-till	corn, 2+ yr	198	5/4	1.60	1.73	5.09	3.09	1.09	-0.67
Wolcott	silt loam	conventional	wheat	143	4/18	2.37	2.08	3.00	4.22	-1.50	0.90
Woodburn	silty clay	minimum	soybean	218	4/18	1.42	1.52	3.55	4.39	-0.69	0.75

*Rainfall estimates provided by Telvent. Grower supplied rainfall data in field notes.

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



EARLY-SEASON TEST 103-108 Day CRM

Top 30 of 36 tested

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Howe	La Crosse†	Monroe#	South Bend	Wolcott#	Woodburn
AgriGold	A6408VT3Pro	VT3P	AC,P5V	107	178.7	18.7	3	1,324	1	226.0	121.0	137.8	273.2	145.6	135.7
Great Lakes	5785VT3PRO	VT3P	AC,P5V	107	167.2	18.8	3	1,238	2	208.8	119.9	132.6	239.3	145.7	135.4
Ebberts	7909VT3P	VT3P	AC,P5	108	162.7	20.3	2	1,199	4	193.1	118.8	129.1	264.8	154.5	107.5
LG Seeds	LG5533VT3Pro	VT3P	AC,P5V	107	162.5	18.5	2	1,205	3	201.4	136.7	110.3	239.8	180.2	124.5
Garst	85V88-3000GT	3000GT	CE,C2	107	162.5	20.8	1	1,195	5	195.5	106.3	131.4	259.1	137.7	120.4
Partners Brand	PB 7632GT/CB/LL	GT/CB/LL	CE,C2,Pr	106	158.7	18.6	2	1,176	6	210.9	123.2	120.6	238.0	164.6	101.0
NK Brand	N61P-3000GT	3000GT	CE,C2	107	157.2	21.3	1	1,154	7	205.3	96.1	124.7	244.3	139.4	115.7
G2 Genetics	5Z-008^	OI,RR2	MQ,R,P1V	108	154.3	21.1	2	1,134	9	205.9	112.7	93.8	247.2	167.8	112.1
Seed Consultants	SCS 10HR62^	HX,RR2	MQ,P1V	106	153.8	19.8	2	1,135	8	211.7	124.4	99.7	207.7	120.8	125.3
NuTech	5B-604	GT/CB/LL	MQ,R,C2	104	152.5	18.9	2	1,129	10	184.7	110.5	106.7	261.0	173.4	99.5
G2 Genetics	5H-0504^	HX,RR2	MQ,R,P1V	105	151.4	19.7	2	1,118	11	188.2	100.9	122.9	232.1	167.4	113.0
Ebberts	6587VT2P	VT2P	AC,P5	107	151.0	20.9	2	1,110	14	187.0	103.8	111.7	253.6	74.8	98.8
Stewart	6V556	VT3P	AC,P5V	107	150.8	19.7	2	1,113	12	193.8	109.3	118.0	252.7	140.9	80.4
G2 Genetics	5H-806^	HX,RR2	MQ,R,P1V	106	150.2	19.3	2	1,110	13	171.6	89.7	105.3	263.2	108.3	121.0
LG Seeds	LG2529VT3Pro	VT3P	AC,P5V	107	148.0	20.6	1	1,089	16	214.8	115.3	81.2	253.0	137.8	75.7
Ebberts	9501SS	STX	AC,P5	109	147.8	21.0	2	1,086	17	195.3	106.2	114.6	219.2	153.2	103.9
AgriGold	A6384VT3Pro	VT3P	AC,P5V	106	147.3	20.3	2	1,085	18	211.1	99.8	97.7	247.5	149.7	80.5
Ebberts	7358VT3P	VT3P	AC,P5	108	146.4	20.4	2	1,078	19	203.0	100.4	97.7	235.2	91.9	95.6
Specialty	4383GENVT3P	VT3P	AC,P5V	105	146.0	19.6	2	1,078	20	197.9	96.0	109.8	239.2	146.8	87.3
Stine	9529VT3Pro	VT3P	AC,P2	107	144.2	19.4	3	1,066	21	153.8	102.1	103.0	248.8	142.7	113.4
Specialty	83R90GENSSRIB	STX-R	AC,P5V	105	142.6	19.7	2	1,053	22	196.9	103.9	108.9	203.2	157.0	100.0
Dyna-Gro	CX48VP76	VT3P	AC,P5V	108	142.1	19.2	2	1,051	23	197.8	88.0	93.6	232.6	136.6	98.5
Partners Brand	PB 7895RR	RR2	AC,P5V	108	141.9	19.0	2	1,050	24	186.1	109.3	83.0	241.2	154.3	89.8
Seed Consultants	SCS 10HQ72^	HXT,RR2	MQ,R,P1V	107	141.4	19.9	1	1,043	26	176.3	118.5	110.6	223.0	154.7	78.5
Stewart	5A988RIB	STX-R	AC,P2	103	141.3	19.6	3	1,044	25	167.2	91.6	105.1	239.9	114.8	102.8
Great Lakes	5368VT3PRO	VT3P	AC,P5V	103	137.5	19.0	2	1,018	27	156.9	83.4	108.6	224.6	138.2	113.9
G2 Genetics	5Z-407^	OI,RR2	MQ,R,P1V	107	136.9	19.3	3	1,012	29	187.1	93.7	106.2	221.2	149.2	76.3
Partners Brand	PB 7559RR	RR2	CE,C2,Pr	105	136.8	18.6	1	1,014	28	171.7	110.5	101.3	206.5	137.3	93.9
Seed Consultants	SCS 10HQ32^	HXT,RR2	MQ,P1V	103	136.3	19.7	2	1,006	30	189.6	106.1	102.8	214.0	76.8	69.0
Stewart	6V629	VT3P	AC,P5V	107	135.1	19.8	2	997	31	158.0	99.6	111.3	207.9	131.0	98.6
Ebberts	9307SS CK	STX	AC,P5	107	149.6	19.8	2	1,104	15	186.4	99.6	132.5	215.8	109.1	113.8
Test Average =					145.7	19.7	2	1,075		183.0	104.0	107.0	235.3	137.7	99.1
LSD (0.10) =					18.7	1.0	ns			28.1	20.6	22.0	25.0	44.7	11.9

FULL-SEASON TEST 109-112 Day CRM

Top 30 of 48 tested

Ebberts	7712VT3P	VT3P	AC,P5	112	178.5	23.0	2	1,303	1	183.6	93.0	105.3	270.2	230.8	114.7
Ebberts	7222VT3P	VT3P	AC,P5	112	177.7	22.3	1	1,300	2	188.2	111.1	88.9	271.1	231.3	86.6
Specialty	4611GENVT3P	VT3P	AC,P5V	110	175.5	22.3	1	1,284	3	217.8	111.1	85.5	244.0	195.1	109.6
Unity	5512SS	STX	MQ,C2	112	173.6	22.9	1	1,268	6	194.6	119.3	84.5	260.3	189.6	104.3
NK Brand	N70J-4011	4011	CE,C2	112	173.4	22.1	1	1,270	5	222.2	118.8	120.0	212.2	198.6	115.3
LG Seeds	LG2575VT3Pro	VT3P	AC,P5V	110	173.1	21.0	1	1,272	4	191.4	114.2	112.4	250.6	189.5	119.8
Channel	212-09STX	STX	AC,P5V	112	170.5	23.5	1	1,243	10	193.8	105.0	90.0	246.3	175.0	132.2
NuTech	5B-410	GT/CB/LL	MQ,R,C2	110	169.7	21.2	1	1,246	7	207.3	101.8	102.1	229.9	194.2	115.2
Unity	7811-3000GT	3000GT	MQ,C2	111	169.6	21.5	1	1,244	8	206.3	104.3	106.4	246.3	182.1	108.8
Stewart	7V747	VT3P	AC,P5V	110	169.6	22.4	1	1,241	11	200.6	93.0	75.3	255.4	209.4	89.6
Dairyland	DS9610	3000GT	MQ,C2	110	169.4	21.3	2	1,244	9	192.3	107.3	122.6	248.6	193.3	105.7
Specialty	8656GENVT3P	VT3P	AC,P5V	111	169.0	22.7	1	1,235	14	194.0	131.7	82.4	222.8	198.6	97.7
Seed Consultants	SC 10AGT92	GT/CB/LL	MQ,P1V	109	168.9	22.1	1	1,237	13	196.5	110.4	97.3	240.3	201.8	95.5
Dyna-Gro	CX52VP91	VT3P	AC,P5V	112	168.5	22.4	1	1,233	15	187.8	116.6	113.6	224.9	201.4	111.7
Dairyland	DS9212Q	HXT,RR2	AVC,C2	112	167.8	19.9	3	1,238	12	185.6	119.2	104.4	237.1	178.8	118.2
Great Lakes	6087VT3PRO	VT3P	AC,P5V	110	167.6	21.1	1	1,231	16	182.4	111.1	85.6	241.7	182.2	120.5
LG Seeds	LG2549VT3	VT3	AC,P5V	109	167.2	21.3	1	1,228	17	173.3	122.9	97.1	205.0	192.8	141.8
Channel	211-99VT3P	VT3P	AC,P5V	111	167.0	21.6	2	1,225	19	185.6	128.0	107.5	249.9	204.1	67.3
AgriGold	A6458VT3	VT3	AC,P5V	109	166.9	21.1	1	1,226	18	184.2	115.1	102.1	192.7	204.0	138.3
Dyna-Gro	D51VP32	VT3P	AC,P5V	111	166.8	21.8	2	1,223	20	179.8	113.5	107.8	250.4	187.7	102.6
Dairyland	DS911SSX	STX	AVC,C2	111	165.9	21.1	3	1,219	21	186.7	123.7	102.2	204.6	196.0	118.7
G2 Genetics	5H-1005^	HX,RR2	MQ,R,P1V	110	164.7	23.1	1	1,202	22	184.2	133.1	95.9	252.8	176.8	76.5
Seed Consultants	SCS 11HR21^	HX,RR2	MQ,P1V	112	164.5	22.9	1	1,201	23	211.3	99.4	75.2	247.3	178.5	85.9
AgriGold	A6478VT3Pro	VT3P	AC,P5V	111	162.9	20.7	1	1,199	24	187.5	104.4	86.5	226.9	177.7	118.2
Garst	85E98-3000GT	3000GT	CE,C2	109	162.9	21.3	1	1,196	25	162.3	106.0	93.1	219.8	202.3	124.2
LG Seeds	LG2602VT3Pro	VT3P	AC,P5V	112	162.0	23.3	1	1,181	27	198.0	83.0	68.0	225.1	222.8	81.1
G2 Genetics	5H-309^	HX,RR2	MQ,R,P1V	109	161.4	21.7	1	1,184	26	185.6	105.7	95.0	253.2	200.4	62.3
Ebberts	6292VT2P	VT2P	AC,P5	112	160.8	23.2	2	1,173	28	179.8	98.5	76.2	232.6	187.5	105.5
Dairyland	DS9210SSX	STX	AVC,C2	110	158.8	22.7	1	1,160	29	184.3	98.0	96.3	221.1	189.2	101.5
Ebberts	7861VT3P	VT3P	AC,P5	111	158.6	22.9	2	1,158	30	185.5	94.6	81.3	244.1	184.3	84.3
Ebberts	9307SS CK	STX	AC,P5	107	153.9	20.0	1	1,135	37	159.1	96.8	117.0	223.7	184.6	105.1
Test Average =					162.5	22.1	1	1,190		187.2	104.9	95.0	234.9	190.1	95.4
LSD (0.10) =					ns	1.3	1			27.3	22.0	37.5	32.2	20.3	11.4

‡ = 2 replications, La Crosse early-season test, Wolcott full-season test; # = rejected results, not included in summary, Wolcott early-season test, Monroe full-season test



Corn Stats:

Yield Range: 131.4-159.3 bu. per acre
 Yield Average: 146.0 bu. per acre
 Top \$ Per Acre: \$1,145.80

Corn Field Notes: Ohio Northwest

Rich Schleuning, F.I.R.S.T. Manager

Bloomdale—The Hoytville clay soil type is known to hold moisture; sometimes that is a bad thing but it helped this season. Emergence was slow with the cool, wet spring conditions. Larry Bishop, F.I.R.S.T. farmer, commented that he had been very happy with his yield. Area yields ranged from 75 bu. per acre to 180 bu. per acre. Bishop produced an average of 146.4 bu. per acre in the early-season test and 149.1 bu. per acre in the full-season test.

Fayette—This plot had enough moisture to get the crop off to a good start but extreme heat and dryness stressed the crop at pollination. There were no diseases present at harvest. Crop height was shortened by the lack of moisture. Grain quality was good with good kernel set and easy shelling off the cob. Randy Carother, F.I.R.S.T. farmer, said area yields ranged from 130 bu. per acre to 145 bu. per acre. Carother averaged 125.5 bu. per acre in the early-season test and 134.7 bu. per acre in the full-season test.

Hamler—This location got off to a great start with uniform emergence. The 100-plus degree temperatures and dryness this summer took its toll. Pollination was uneven, with poor kernel set. There was fusarium ear rot and aspergillus ear rot present. Yield averages around the area were approximately 120 bu. per acre. Nathan Like, F.I.R.S.T. farmer, produced an average of 113.2 bu. per acre in the early-season test, and the data for the full-season test was rejected due to highly variable yields.

Leipsic—This site went from one extreme to another. Last year delivered a rough wet season and difficult delayed harvest while this year had a drought. Spring conditions led to an uneven stand but that may have been helpful for reducing plant competition for water and nutrients in a drought. Some stalks aborted ears while other hybrids with flex ears compensated. Plant health was good considering the extreme weather. Highly variable yields in the full-season test gave us

poor data quality so that test was rejected. The crop looked rough early in the season but managed to pull through. The early-season test averaged 157 bu. per acre.

McComb—It was quite a difference from last year's struggle to get crops planted and harvested because of wet conditions all season to this year's drought. The heavy clay soil retained moisture throughout the season. We had good plant health, as Quilt was applied. The light lodging is from root lodging and the top of the plants were broken off. Yields were better than expected for the year; last year's plot average was 176 bu. per acre.

Tiffin—Lodging scores are the result of a mix of light disease and the winds of Hurricane Sandy. The stress from drought and heat also led to weak ear shanks, as there were dropped ears on the ground. Yields in the area were in the range of 150 bu. per acre but yields a few miles south averaged under 100 bu. per acre. This area was lucky to get enough rain to make a crop.

Site Information Ohio Northwest						2012 Rainfall (inches)*					
						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Bloomdale	clay loam	no-till	wheat	175	4/30	3.20	3.45	2.68	4.77	-1.11	1.34
Fayette	sandy loam	conventional	soybean	165	4/27	2.13	0.95	4.61	3.19	0.98	-0.41
Hamler	loam	conventional	soybean	205	4/23	2.99	2.87	2.03	4.70	-1.88	1.06
Leipsic	silt loam	conventional	clover	205	4/20	2.95	2.40	2.64	5.75	-1.20	2.59
McComb	clay loam	conventional	soybean	180	4/24	2.99	2.87	2.03	4.70	-1.88	1.06
Tiffin	sandy clay loam	conventional	soybean	205	5/2	1.82	2.82	1.59	2.93	-1.96	-0.57

*Rainfall estimates provided by Telvent. Grower supplied rainfall data in field notes.

F.I.R.S.T. Ohio Northwest Corn Results



EARLY-SEASON TEST 103-108 Day CRM

Top 30 of 36 tested

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Bloomdate	Fayette	Hamler#	Leipscic#	McComb	Tiffin
Mycogen Channel	2P616 207-13VT3P	HXT,RR2 VT3P	AVC,C2 AC,P5V	108 107	152.0 150.8	22.9 22.8	2 2	1,095 1,087	1 2	162.1 145.3	129.5 139.7	102.0 131.8	173.0 172.2	169.7 151.1	175.7 164.7
Stewart	6V556	VT3P	AC,P5V	107	150.6	22.7	1	1,085	3	162.0	130.5	112.9	159.3	146.2	192.9
G2 Genetics	5H-0504^	HX,RR2	MQ,R,P1V	105	149.2	22.4	2	1,077	4	133.7	141.9	128.6	180.1	145.9	165.0
Ebberts	6587VT2P	VT2P	AC,P5	107	149.0	22.9	2	1,073	5	154.7	135.8	107.0	171.2	154.4	171.1
LG Seeds	LG5541VT3Pro	VT3P	AC,P5V	108	148.4	22.5	2	1,070	6	143.9	127.6	136.9	172.3	151.3	158.3
Great Lakes	5785VT3PRO	VT3P	AC,P5V	107	148.2	22.6	2	1,069	7	150.2	126.7	129.6	171.4	144.5	166.9
Rupp	xr8034	3000GT	CE,C2	105	148.0	22.8	1	1,066	8	150.9	138.9	129.0	155.9	149.4	163.6
Partners Brand	PB 7632GT/CB/LL	GT/CB/LL	CE,C2,Pr	106	147.2	22.5	2	1,062	9	138.8	130.3	131.0	161.2	151.0	171.0
Steyer	10702-3000GT	3000GT	MQ,C2	108	145.9	22.7	2	1,052	10	148.9	128.0	108.5	160.4	141.3	188.5
Specialty	4383GENVT3P	VT3P	AC,P5V	105	145.8	22.7	1	1,051	11	154.8	139.1	112.3	160.9	142.1	165.5
NK Brand	N61P-3000GT	3000GT	CE,C2	107	145.0	22.7	2	1,045	12	149.9	125.8	126.4	153.0	152.7	161.9
Ebberts	7358VT3P	VT3P	AC,P5	108	144.8	22.7	2	1,044	13	163.0	131.8	115.2	147.3	145.8	165.6
G2 Genetics	5Z-008^	OL,RR2	MQ,R,P1V	108	144.7	22.6	2	1,043	14	144.6	165.5	101.0	152.2	136.0	169.0
NuTech	5B-604	GT/CB/LL	MQ,R,C2	104	144.5	22.6	2	1,042	15	150.5	116.6	113.1	153.7	152.6	180.7
Rupp	xrJ07-20	STX	AC,P2	107	144.2	23.0	2	1,038	16	150.4	106.8	120.4	177.2	137.8	172.5
Ebberts	9501SS	STX	AC,P5	109	144.0	22.9	2	1,037	17	157.7	118.5	105.9	167.2	146.7	167.9
Rupp	xrD07-19	VT2P	AC,P2	107	142.0	23.0	2	1,022	18	142.9	118.8	104.7	175.7	139.2	170.6
Specialty	83R90GENSSRIB	STX-R	AC,P5V	105	141.6	22.8	2	1,020	19	146.1	98.3	128.4	154.9	145.9	176.0
LG Seeds	LG5533VT3Pro	VT3P	AC,P5V	107	141.0	22.5	2	1,017	20	137.5	124.2	110.4	166.5	143.5	163.7
Doebbers	594GRQ	3000GT	MQ,P1V	107	141.0	22.8	2	1,016	21	157.1	121.8	115.8	134.9	150.7	165.7
G2 Genetics	5H-806^	HX,RR2	MQ,R,P1V	106	140.8	22.6	2	1,015	22	144.6	118.5	98.8	171.0	142.5	169.2
Stewart	5A988RIB	STX-R	AC,P2	103	140.4	22.4	2	1,013	23	153.1	135.4	92.9	153.6	141.6	165.7
Steyer	10403VT3PRO	VT3P	MQ,C2	104	140.0	22.5	2	1,010	24	144.9	149.4	112.5	147.3	131.2	154.5
Stine	9529VT3Pro	VT3P	AC,P2	107	138.6	22.7	2	999	25	137.2	120.9	114.1	151.8	141.9	165.5
Great Lakes	5368VT3PRO	VT3P	AC,P5V	103	137.9	22.4	2	995	26	131.4	115.8	113.3	163.3	135.8	167.8
Steyer	10603GENSS RIB	STX-R	MQ,C2	106	137.8	22.8	2	993	27	149.3	109.5	86.8	163.7	146.1	171.4
Steyer	10803GENSS	STX	MQ,C2	107	137.7	22.8	2	992	28	137.5	119.8	101.2	149.3	146.3	172.3
Ebberts	7909VT3P	VT3P	AC,P5	108	137.7	22.9	2	992	29	149.6	132.4	128.6	113.0	134.6	168.2
Doebbers	RPM 588AMX^	AMX,RR2	MQ,P1V	107	137.5	22.8	2	991	30	137.5	104.1	119.0	152.0	141.0	171.1
Ebberts	9307SS CK	STX	AC,P5	107	134.0	22.7	2	966	34	133.0	134.0	91.9	143.8	139.7	161.5
Test Average =					142.3	22.7	2	1,026		146.4	125.5	113.2	157.0	144.6	167.1
LSD (0.10) =					10.7	ns	ns			14.7	23.9	24.0	26.0	12.9	18.2

FULL-SEASON TEST 109-112 Day CRM

Top 30 of 42 tested

Specialty	4611GENVT3P	VT3P	AC,P5V	110	159.3	23.3	1	1,146	1	152.8	149.9	119.6	177.4	155.6	178.9
Dairyland	DS9111SSX	STX	AVC,C2	111	158.4	22.8	1	1,141	2	157.5	143.1	137.2	166.7	162.3	170.6
Steyer	11203-3000GT	3000GT	MQ,C2	112	158.2	22.9	2	1,139	3	163.4	154.3	101.0	163.2	140.7	174.4
Rupp	xr8217	VT3P	AC,P2	110	158.1	23.1	1	1,138	4	162.4	158.0	109.2	149.2	137.5	174.4
Stewart	7V747	VT3P	AC,P5V	110	157.9	22.9	1	1,137	5	154.8	153.2	105.4	180.0	143.9	179.5
Mycogen	2V707	STX	AVC,C2	110	157.2	23.0	1	1,132	6	154.6	139.1	125.2	160.5	154.1	181.0
Ebberts	7222VT3P	VT3P	AC,P5	112	157.0	23.1	1	1,130	7	159.0	136.3	141.7	125.4	159.5	173.3
Ebberts	7712VT3P	VT3P	AC,P5	112	156.5	22.8	1	1,128	8	164.0	138.6	150.0	139.8	144.2	179.0
Ebberts	6292VT2P	VT2P	AC,P5	112	154.3	23.2	1	1,110	9	155.7	149.9	137.9	163.2	151.4	160.0
NuTech	5B-410	GT/CB/LL	MQ,R,C2	110	153.4	23.1	1	1,104	10	161.5	149.2	147.7	170.2	145.5	157.2
Stine	9731VT3Pro	VT3P	AC,P2	110	153.0	23.3	1	1,101	11	149.3	138.8	115.5	111.9	153.3	170.4
Great Lakes	6087VT3PRO	VT3P	AC,P5V	110	152.9	23.1	1	1,101	12	141.7	128.6	123.6	160.5	161.4	179.7
Dairyland	DS9610	3000GT	MQ,C2	110	152.7	22.9	1	1,100	13	161.1	130.6	154.2	157.9	150.0	168.9
Specialty	4640GENVT3P	VT3P	AC,P5V	111	152.3	23.2	1	1,096	14	144.6	135.3	115.9	160.0	162.6	166.6
Ebberts	7861VT3P	VT3P	AC,P5	111	152.2	23.5	1	1,094	15	148.1	129.0	129.4	140.3	156.2	175.6
Channel	212-09STX	STX	AC,P5V	112	151.8	22.9	1	1,093	16	150.6	148.4	140.6	155.9	142.8	165.3
Stine	9728EVT3Pro	VT3P	AC,P2	109	151.6	23.3	1	1,090	17	142.0	142.0	110.7	154.0	152.1	170.1
Partners Brand	PB 8155RR	RR2	CE,C2,Pr	111	151.4	23.3	1	1,089	18	155.3	139.5	101.3	175.8	140.2	170.6
Steyer	10901GENSS RIB	STX-R	MQ,C2	109	150.8	23.0	1	1,086	20	141.7	127.9	107.8	140.6	151.7	181.8
LG Seeds	LG2549VT3	VT3	AC,P5V	109	150.7	23.2	1	1,084	21	137.3	134.7	142.6	168.5	162.5	168.2
Specialty	8656GENVT3P	VT3P	AC,P5V	111	150.3	23.0	1	1,082	22	141.4	141.5	145.0	160.6	149.4	169.0
LG Seeds	LG2602VT3Pro	VT3P	AC,P5V	112	150.0	23.1	1	1,080	23	153.1	119.6	103.7	140.3	158.9	168.3
G2 Genetics	5H-1005^	HX,RR2	MQ,R,P1V	110	149.9	23.5	1	1,077	24	157.6	132.5	148.5	149.1	148.3	161.1
Partners Brand	PB 8242-3111	3111	CE,C2,Pr	112	149.0	23.1	1	1,072	25	151.4	116.8	136.4	142.3	165.1	162.8
Specialty	4608GENVT3P	VT3P	AC,P5V	109	148.7	23.2	1	1,070	26	139.1	141.6	129.9	123.4	146.3	167.7
LG Seeds	LG2575VT3Pro	VT3P	AC,P5V	110	148.5	22.8	1	1,070	27	140.5	143.4	123.1	154.2	144.7	165.4
G2 Genetics	5H-309^	HX,RR2	MQ,R,P1V	109	147.3	22.8	1	1,061	28	150.0	112.6	130.3	162.7	148.4	178.2
Great Lakes	6232VT3PRO	VT3P	AC,P5V	112	147.3	23.2	1	1,060	29	148.7	129.4	168.0	172.2	155.1	156.1
Stine	9732VT3Pro	VT3P	AC,P2	111	147.2	23.0	2	1,060	30	146.4	130.8	132.4	149.3	149.8	161.6
Steyer	11004GENSS	STX	MQ,C2	110	146.8	23.1	1	1,057	31	147.5	138.4	116.6	176.3	144.0	157.2
Ebberts	9307SS CK	STX	AC,P5	107	150.8	22.9	1	1,086	19	161.6	141.9	119.8	155.0	137.3	162.3
Test Average =					149.7	23.1	1	1,077		149.1	134.7	124.2	153.1	149.0	165.8
LSD (0.10) =					10.6	0.4	ns			13.5	22.3	37.3	ns	13.7	17.7

= rejected results, not included in summary, Hamler and Leipsic full-season tests

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

Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)*
Arlington	silt loam	no-till	15	5/13	166.5	low	2.06
Lancaster	silt loam	conventional	15	5/13	158.5	medium	1.53
Spring Green	sandy loam	no-till	15	5/13	167.0	high	2.56
Watertown	sandy loam	no-till	15	5/14	143.8	medium	2.14

*Rainfall estimates provided by Telvent. Grower supplied rainfall data in field notes.



Jason Beyers, F.I.R.S.T. Manager

Soybean Stats:

Yield Range: 52.8-62.6 bu. per acre
 Yield Average: 58.3 bu. per acre
 Top \$ Per Acre: \$1,064.20

Soybean Field Notes: Wisconsin South

Arlington—Most of the fuller-season varieties were cut short with an early frost. Any of the plants that were taller than 36" had some lodging. Seed size was excellent on most varieties. Sidney Stibbs, F.I.R.S.T. farmer, stated that the rains in July helped tremendously to relieve the stress the soybeans were under and help them pod. I could not find any evidence of any disease present. This was a very nice, uniform location. The average yield here was 71.1 bu. per acre.

Lancaster—Conditions started out great at Lancaster with excellent emergence. Late-season rain also helped to finish out the top

half of the plants. Plants were short due to the midseason lack of rainfall. All plants were standing perfectly and were disease-free. A few of the late-season varieties received a killing frost that aided in defoliation. The Lancaster test plot produced an average yield of 64.8 bu. per acre.

Spring Green—It was a good thing this sand was irrigated this year. Will Hutters, F.I.R.S.T. farmer, commented, "Most of the time I had to water just to keep the plants alive, and by the time the irrigator made the circle, it was time to water again." Plants were all short, were standing great and had spindly little stems. I could

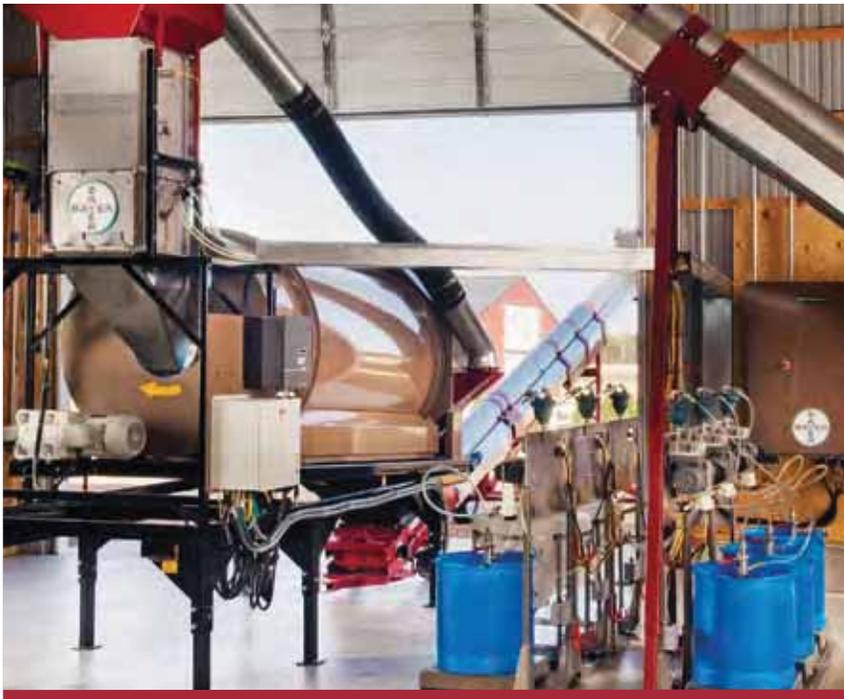
not find any disease, but this field has a history of high cyst counts. The average yield at the Spring Green test plot was 47.6 bu. per acre.

Watertown—This location started out well after its May 14 planting date. The plot had uniform emergence. Rainfall in June was limited, but we were fortunate to receive some key rains in July. Plants were all short, with the tallest being 32". There was no disease present, and plants were all standing perfectly. It was surprising that this location yielded an average of 49.5 bu. per acre, being that it is on dryland sand.

1.8-2.5 Maturity Group

Top 20 of 54 tested

Company/Brand	Product/Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Arlington	Lancaster	Spring Green	Watertown
Channel	2306R2	RR2Y	2.3	R	Ac,PV	62.6	10.0	6	1,064	75.9	67.8	52.1	54.4
LG Seeds	C2500R2	RR2Y	2.5	R	Ac	62.6	10.3	9	1,064	76.3	73.7	47.7	52.8
FS Hisoy	HS 24A12	RR2Y	2.4	R	CMB	61.4	9.9	6	1,044	73.6	69.2	53.8	49.0
Viking	2300R2	RR2Y	2.3	S	Ac	60.9	10.0	7	1,035	76.3	72.5	44.3	50.4
Dyna-Gro	39RY25	RR2Y	2.5	S	Ac	60.8	10.0	5	1,034	70.7	78.6	41.4	52.3
FS Hisoy	HS 22A21	RR2Y	2.2	S	CMB	60.8	10.1	9	1,034	71.7	67.5	51.2	52.7
NK Brand	S24-K2 \$	RR2Y	2.4	S	CMB	60.6	10.1	11	1,030	72.3	71.4	42.8	56.0
Renk	RS213NR2	RR2Y	2.1	R	None	60.5	10.0	4	1,029	76.5	63.5	49.5	52.6
LG Seeds	C2465R2	RR2Y	2.4	S	Ac	60.1	10.0	4	1,022	71.1	70.7	45.2	53.4
Titan Pro	22M12	RR2Y	2.2	R	CMB	60.0	10.0	6	1,020	69.0	67.5	51.2	52.2
Jung	1225RR2	RR2Y	2.2	R	Ac,0	59.9	9.9	4	1,018	69.5	66.8	51.9	51.4
Viking	2202R2N	RR2Y	2.2	R	None	59.9	9.9	7	1,018	72.7	67.7	44.2	55.1
Dyna-Gro	S24RY73	RR2Y	2.4	R	Ac	59.9	10.0	8	1,018	70.4	67.4	51.8	49.8
Trelay	24RR19	RR2Y	2.4	S	Ac,Ex	59.7	10.0	6	1,015	72.3	74.5	40.7	51.1
Trelay	25RR91	RR2Y	2.5	R	Ac,Ex	59.6	10.0	8	1,013	68.1	65.7	51.6	52.8
Dairyland	DSR-2411R2Y	RR2Y	2.4	S	CMB	59.5	10.0	7	1,012	71.8	73.3	46.4	46.6
Jung	1232RR2	RR2Y	2.3	R	Ac,0	59.4	10.1	5	1,010	71.6	69.9	43.8	52.1
Renk	RS202NR2	RR2Y	2.0	R	Am	59.3	10.0	4	1,008	75.0	56.7	56.4	49.0
Titan Pro	23M9	RR2Y	2.3	S	CMB	59.2	10.0	6	1,006	69.7	73.4	45.0	48.8
Pioneer	92Y30 \$	RR	2.3	R	None	59.1	10.0	5	1,005	71.8	63.0	47.5	53.9
Site Averages =			58.3	10.0	5	991	71.1	64.8	47.6	49.5			
LSD (0.10) =			ns	0.1	ns		6.1	6.5	5.1	4.8			



 **PONCHO**[®]

VOTIVO[®]

SANDERS' SEEDS NOW PROVIDED "ON DEMAND"

Bayer CropScience's New On Demand™ Seed Treatment System Increases Production for Jimmy Sanders, Inc.

ON DEMAND™ SEED TREATMENT

"Innovation in seed treatment application is essential to help growers protect their crops and achieve quality yields in a sustainable way," said Kerry Grossweiler, seed technology and application manager at Bayer CropScience LP. "On Demand is the first and only fully automated seed treatment system developed to make treating seeds easier, more accurate and more efficient – benefiting seed treaters and ultimately the growers as well." Bayer was keen to enlist seed treaters to use On Demand™ in a pilot program. They invited Vincent Kerperien, the Jimmy Sanders location manager in Light, Arkansas, to attend the pilot training. After learning about the program, Vincent agreed to install a system at his facility.

FAVORABLE FEEDBACK

Vincent has been using the system for the past 13 months and is pleased with the benefits it brings. "One of the most impressive features of the system is the reporting functionality, which includes batch reports," Vincent says. "In just minutes, you can determine how the seeds were treated, how many gallons of seed treatment were used and which treatments were employed on specific batches. The reporting features will help seed treaters keep track of information in a much easier and more accurate way than ever before. The On Demand chemical delivery system

is very accurate, which is extremely important in seed treating. On Demand takes a lot of the math and potential human error out of seed treatment."

"In a 10-hour day, On Demand has been saving us at least an hour every day," Vincent adds. He also points out that this system is popular with their employees, mainly because cleanup is safer and faster. Treaters used to have to clean 2.5-gallon jugs for disposal. Now they are no longer exposed to chemicals because On Demand is a completely closed system that reduces the risk of unnecessarily handling chemicals.

CLEAR RECOMMENDATION

"Another key point for me is that On Demand works just like Bayer CropScience said it would work," Vincent adds. "And it is easy to operate. Our company is definitely planning to continue using the On Demand system." And Vincent's customers will continue to benefit from buying their treated seeds on demand.

Jimmy Sanders, Inc. is a well-known name in Mid-South farming circles. Since the company was founded in 1953, it has grown into one of the leading agricultural input supply and distribution businesses in the Mid-South, operating from 77 locations in eight states. Its multifaceted operations include seed production and sales. This is where Jimmy Sanders and Bayer share a common interest.



F.I.R.S.T. North Central State Line Soybean Results

Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)*
Janesville	silt loam	no-till	15	5/14	161.0	low	2.78
Miles	clay loam	conventional	15	5/12	138.7	high	2.56
Warren	silt loam	conventional	15	5/12	170.4	medium	2.01
Winnebago	silt loam	conventional	15	5/11	157.7	low	1.06

*Rainfall estimates provided by Telvent. Grower supplied rainfall data in field notes.



Jason Beyers, F.I.R.S.T. Manager

Soybean Stats:

Yield Range: 52.6-64.2 bu. per acre
Yield Average: 58.6 bu. per acre
Top \$ Per Acre: \$1,091.40

Soybean Field Notes: North Central State Line

Janesville—Emergence was excellent here, and plants had some good early-season growth. Joshua Tracy, F.I.R.S.T. farmer, commented that June and July were dry but that he received a 1" rain around July 20 that perked everything back up. Plants were all standing well, with little evidence of any disease present. Yields were surprising in this area, and the plot matched the field average. The plot average was 68.5 bu. per acre.

Miles—The plants were tall (some almost 60") at the Miles test plot, resulting in the lodging that you see on the report. This plot got off to a great start with good mois-

ture, and John Wilsons, F.I.R.S.T. farmer, caught some timely rains. Most of the later-maturing varieties were frosted off, leaving green stems and dead leaves to contend with. I could not find any disease at harvest, and noticed several four-bean pods. The average yield of the Miles test plot was 69.2 bu. per acre.

Warren—At the Warren test plot all varieties were short and standing perfectly at harvest. All of the stems had short internodes and were loaded with pods. The seed size was rather large. Some of the later-maturing varieties still had some green stems, making harvest difficult. There was no evidence

of any disease present at harvest. Overall, this was a surprisingly good plot for the stress it endured this season. The average yield on the Warren test plot was 58.7 bu. per acre.

Winnebago—Plants here in Winnebago were really short (12" to 24" tall), due to the lack of rainfall most of the season. Yields were higher than Eric Swanson, F.I.R.S.T. farmer, expected (averaging 37.8 bu. per acre) because his drilled soybeans around the plot averaged closer to 25 bu. per acre. There was no evidence of any disease present at harvest. Some of the early varieties a small amount of pod splitting.

2.1-2.8 Maturity Group

Top 20 of 54 tested

Company/Brand	Product/Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Janesville	Miles	Warren	Winnebago
Prairie Brand	PB-2230R2	RR2Y	2.2	S	CMB	64.2	10.6	12	1,091	69.2	81.5	66.3	39.6
Channel	2605R2	RR2Y	2.6	R	Ac,PV	63.0	10.4	21	1,071	72.9	72.0	62.2	44.9
Steyer	2202R2	RR2Y	2.2	MR	SStd	61.8	10.5	9	1,051	62.9	86.7	61.7	35.8
FS Hisoy	HS 22A21	RR2Y	2.2	S	CMB	61.8	10.8	11	1,051	65.7	81.0	61.1	39.3
Channel	2800R2	RR2Y	2.8	R	Ac,PV	61.7	10.8	20	1,049	72.1	64.0	67.3	43.2
Trelay	24RR19	RR2Y	2.4	S	Ac,Ex	61.6	10.6	6	1,047	72.0	72.6	63.7	38.1
FS Hisoy	HS 27A12	RR2Y	2.7	R	CMB	61.6	10.2	18	1,047	71.2	75.2	59.3	40.8
Prairie Brand	PB-2668R2	RR2Y	2.6	R	CMB	61.4	10.6	17	1,044	72.4	72.3	57.4	43.5
Asgrow	AG2632 §	RR2Y	2.6	MR	Ac,PV	61.4	10.7	17	1,044	73.0	67.7	66.3	38.6
Stone	2R2203	RR2Y	2.2	R	Ac,PV	61.3	10.3	12	1,042	69.9	81.3	53.8	40.1
Stone	2R2502	RR2Y	2.5	S	Ac,PV	61.1	10.5	7	1,039	75.1	64.9	65.1	39.1
Titan Pro	25M22	RR2Y	2.5	R	CMB	60.9	10.2	11	1,035	73.8	70.0	58.7	41.0
Stine	24RB00 §	RR2Y	2.4	MR	CMB	60.9	10.4	12	1,035	72.7	72.1	64.5	34.4
Steyer	2702R2	RR2Y	2.7	MR	SStd	60.8	10.1	14	1,034	68.5	71.2	59.5	43.8
Channel	2706R2	RR2Y	2.7	R	Ac,PV	60.7	10.5	21	1,032	71.0	67.1	63.5	41.1
Asgrow	AG2232 §	RR2Y	2.2	R	Ac,PV	60.5	10.5	15	1,029	65.5	81.6	59.1	35.6
Trelay	25RR91	RR2Y	2.5	R	Ac,Ex	60.4	10.3	14	1,027	71.0	69.3	61.2	40.0
Dairyland	DSR-2411R2Y	RR2Y	2.4	S	CMB	60.2	10.3	8	1,023	69.3	68.3	61.7	41.6
Jung	1232RR2	RR2Y	2.3	R	Ac,O	59.4	10.4	7	1,010	72.1	63.3	61.3	40.7
Titan Pro	23M9	RR2Y	2.3	S	CMB	59.4	10.5	10	1,010	78.1	65.2	57.2	37.0
Site Averages =						58.6	10.4	13	996	68.5	69.2	58.7	37.8
LSD (0.10) =						ns	0.3	ns		3.9	7.4	5.6	4.3

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

Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)*
Grand Ridge	silt loam	conventional	15	5/15	148.0	high	2.80
Malta	silt loam	no-till	15	5/15	125.9	low	1.93
Milledgeville	silt loam	conventional	15	5/11	147.3	medium	2.45
Walnut	silt loam	minimum	15	5/15	154.1	medium	3.09

*Rainfall estimates provided by Telvent. Grower supplied rainfall data in field notes.



Jason Beyers, F.I.R.S.T. Manager

Soybean Stats:

Yield Range: 60.2-75.8 bu. per acre
 Yield Average: 69.8 bu. per acre
 Top \$ Per Acre: \$1,288.60

Soybean Field Notes: Illinois North

Grand Ridge—The Grand Ridge test site was a great plot to harvest. Plants were loaded with pods from top to bottom. Most internodes were 3" to 5" long, making most varieties have some good height. Most of the later-maturing varieties still had green stems, but all the pods were good and dry. There was very little disease in the plot, and most seeds were large in size. The average yield at the Grand Ridge test site was 68.3 bu. per acre.

Malta—The Malta test site was a nice uniform plot with good yields. Plants were extremely tall with long internodes. Plants had more pods on the bottom and the

top third of the plant, with the midsection not podded as heavily. Seeds were larger than average, and there was no disease to be found. Most varieties struggled to emerge after planting due to lack of soil moisture. The Malta site averaged 69.1 bu. per acre.

Milledgeville—Wow, this plot was unbelievable. Conditions were ideal for soybeans at this location. This was the first planted plot in this region, on May 11. The plants were extremely tall, almost reaching 70" on some varieties. This plot was difficult to harvest due to all the lodging, green stems and leaf material. There was some evidence of white

mold seen in August. Seed size was large and plants were loaded with pods. The average yield in the Milledgeville site was 82.3 bu. per acre.

Walnut—Planting conditions here at the Walnut site were dry. The seeds actually sat in the soil for about three weeks after the May 15 planting date until it rained and then they finally sprouted and emerged. Alan Dale, F.I.R.S.T. farmer, caught a couple of late-season rains that really helped this plot put some pods on. Most varieties still had green stems and some leaves at the time of harvest. There was very little evidence of any disease present at harvest time.

2.4-3.1 Maturity Group

Top 20 of 54 tested

Company/Brand	Product/Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Grand Ridge	Malta	Milledgeville	Walnut
Pfister	30R22	RR2Y	3.0	R	CMB	75.8	11.1	27	1,289	73.3	74.9	83.2	71.6
Pfister	28R21	RR2Y	2.8	R	CMB	74.5	10.3	25	1,267	75.4	79.0	76.5	67.1
LG Seeds	C2835R2	RR2Y	2.8	R	Ac	73.8	10.2	28	1,255	71.5	72.1	86.7	64.8
Dyna-Gro	38RY28	RR2Y	2.8	R	Ac	73.7	10.2	25	1,253	76.7	72.7	83.7	61.7
NK Brand	S30-E9 §	RR2Y	3.0	R	CMB	73.6	10.3	24	1,251	72.6	75.0	83.1	63.5
Dairyland	DSR-2880R2Y	RR2Y	2.8	MR	CMB	73.5	10.2	24	1,250	71.4	72.7	87.0	62.8
Steyer	2703R2	RR2Y	2.7	MR	SStd	72.9	10.1	26	1,239	71.6	77.8	80.4	61.9
LG Seeds	C3220R2	RR2Y	3.1	R	Ac	72.8	10.7	27	1,238	77.3	74.2	79.4	60.1
Dairyland	DSR-2995R2Y	RR2Y	2.9	MR	CMB	72.2	10.6	27	1,227	72.8	71.7	87.1	57.3
NK Brand	S27-H6 §	RR	2.7	R	CMB	72.1	10.1	19	1,226	68.3	67.9	86.9	65.2
Stone	2R2801	RR2Y	2.8	R	Ac,PV	71.9	10.2	27	1,222	72.9	68.7	79.1	66.9
Stine	29RB22 §	RR2Y,STS	2.9	R	CMB	71.8	10.2	27	1,221	78.4	71.2	76.0	61.6
Channel	2800R2	RR2Y	2.8	R	Ac,PV	71.7	10.2	24	1,219	75.7	66.1	86.0	58.8
FS Hisoy	HS 29A22	RR2Y	2.9	R	CMB	71.5	10.7	21	1,216	68.4	65.0	91.2	61.3
Asgrow	AG2931 §	RR2Y	2.9	R	Ac,PV	71.5	10.1	23	1,216	70.6	74.2	79.5	61.7
LG Seeds	C2500R2	RR2Y	2.5	R	Ac	71.5	10.5	24	1,216	64.8	70.3	86.9	63.8
Channel	3106R2	RR2Y	3.1	R	Ac,PV	71.2	10.5	23	1,210	69.9	66.6	83.0	65.3
Stine	26RD02	RR2Y	2.6	R	CMB	71.1	10.2	24	1,209	70.8	64.3	94.3	54.9
Steyer	2702R2	RR2Y	2.7	MR	SStd	70.5	10.0	27	1,199	66.7	70.9	79.8	64.6
Dyna-Gro	S27RY03	RR2Y	2.7	R	Ac	70.4	10.1	28	1,197	72.6	75.0	77.9	56.0
Site Averages =			69.8	10.3	24	1,187	68.3	69.1	82.3	59.5			
LSD (0.10) =			5.2	0.3	6	4.2	6.1	6.9	5.3				

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

Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)*
Howe	sandy loam	conventional	15	5/11	108.9	n/a	4.01
La Crosse	sandy loam	conventional	15	5/14	108.7	n/a	2.39
Monroe	silt loam	minimum	15	5/9	102.3	n/a	6.49
Wolcott	sandy clay loam	minimum	15	5/5	101.6	Low	4.22

*Rainfall estimates provided by Telvent. Grower supplied rainfall data in field notes.



Rich Schleuning, F.I.R.S.T. Manager

Soybean Stats:

Yield Range: 43.0-61.6 bu. per acre
 Yield Average: 53.8 bu. per acre
 Top \$ Per Acre: \$953.00

Soybean Field Notes: Indiana North

Howe—This site had poor seedling emergence as soybeans laid in dry soil too long after the May 11 planting date. John Larimer, F.I.R.S.T. farmer, saw good plant health as the crop elongated up to 54" tall. With the tall plant height and late-season storms, the lodged crop only stood 24" above the soil surface. The average yield on this Howe site was 50 bu. per acre.

La Crosse—With the dry conditions this spring, F.I.R.S.T. farmer Myron Schafer had to plant soybeans over 2" deep to get to some moisture. This was the last plot planted in this region, on May 14. Plant height varied from

one end of the strip to the other. There was some late-season insect feeding on pods, resulting in either no soybean development or a pod filled with mold. Some of the bottom pods were empty, abandoned due to early-season stress. Plant health was good as crop stood nicely at harvest. The average yield at the La Crosse location was 51.3 bu. per acre.

Monroe—Conditions stayed dry after the May 9 planting on the Monroe test site; then, a light rain helped with emergence. In June there were plants at a unifoliate stage while others were just emerging from the soil. The August rains made for a nice crop.

The soybeans were a good size and had good plant health. Plant height ranged from 24" to 42" tall. David Bluhm, F.I.R.S.T. farmer, had an average yield of 56.6 bu. per acre.

Wolcott—The Wolcott site had a reduced stand with the tough spring this year. The site was planted on May 5. The late-July and August rains helped make this crop. Plant heights were from 42" up to 54" tall. Lodging was light with good plant health. There was a wide variance in node spacing in varieties. You could see pod feeding from insects, as mold was present. The average yield here was 57.1 bu. per acre.

2.7-3.4 Maturity Group

Top 20 of 48 tested

Company/Brand	Product/Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Howe	La Crosse†	Monroe†	Wolcott
Asgrow Specialty	AG3431 § 3494CR2	RR2Y RR2Y	3.4 3.4	R R	Ac,PV Ac,PV	61.6 60.4	14.5 14.8	2 3	953 934	56.2 51.8	58.3 56.1	69.3 70.3	62.5 63.4
Channel Dairyland	3303R2 DSR-3216R2Y	RR2Y RR2Y	3.3 3.2	R R	Ac,PV CMB	59.1 59.1	14.5 14.5	4 5	914 914	46.0 56.7	55.1 55.8	64.7 61.6	70.4 62.2
Burtch Seed Co.	342R2	RR2Y	3.4	R	Ac	58.2	14.2	7	901	50.9	65.6	58.1	58.0
FS Hisoy	HS 29A22	RR2Y	2.9	R	CMB	57.8	14.5	5	894	46.6	49.9	68.0	66.7
Ebberts Channel	2313RR2 3306R2	RR2Y RR2Y	3.1 3.3	R R	Ac Ac,PV	57.3 56.9	14.6 14.4	5 4	886 880	46.8 55.2	61.6 58.6	57.6 55.8	63.1 57.8
Channel Specialty	3402R2 2812CR2	RR2Y RR2Y	3.4 2.8	R R	Ac,PV Ac,PV	56.5 56.4	14.7 14.3	2 4	874 873	53.7 45.3	54.8 53.9	58.7 63.3	58.7 63.1
Specialty FS Hisoy	3151CR2 HS 30A22	RR2Y RR2Y	3.1 3.0	R R	Ac,PV CMB	56.4 56.1	14.5 14.5	2 5	873 868	54.3 51.1	55.6 59.4	59.1 54.2	56.5 59.7
Ebberts	2342RR2	RR2Y	3.4	R	Ac	55.9	14.6	6	865	51.8	58.6	58.1	55.0
Ebberts	2300RR2	RR2Y	3.0	R	Ac	55.8	14.3	4	863	52.9	51.6	63.3	55.4
Ebberts	2310RR2	RR2Y	3.1	R	Ac	55.8	14.7	6	863	48.6	59.2	59.4	55.9
LG Seeds	C2835R2	RR2Y	2.8	R	Ac	55.6	14.4	6	860	42.1	58.8	55.1	66.5
LG Seeds	C3111R2	RR2Y	3.1	R	None	55.5	14.6	3	859	53.6	54.5	56.2	57.5
Dairyland	DSR-3232R2Y	RR2Y	3.4	MR	CMB	54.8	14.8	7	847	47.5	48.3	66.2	57.2
Ebberts	2333RR2	RR2Y	3.3	R	Ac	54.7	14.5	5	846	52.7	50.8	57.7	57.5
Steyer	3104R2	RR2Y	3.1	MR	SStd	54.6	14.8	6	844	57.5	52.9	53.7	54.1
Site Averages =			53.8	14.6	4	832	50.0	51.3	56.6	57.1			
LSD (0.10) =			6.0	0.4	3		8.0	9.8	11.1	6.2			

† = 2 replications

F.I.R.S.T. Ohio Northwest Soybean Results

Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)*
Bloomdale	clay loam	no-till	30	5/24	104.5	n/a	4.77
Celina	loam	minimum	30	5/23	86.8	n/a	6.08
Dunkirk	sandy clay loam	no-till	30	5/24	104.5	n/a	3.74
Leipsic	sandy loam	minimum	30	6/1	97.8	n/a	5.75

*Rainfall estimates provided by Telvent. Grower supplied rainfall data in field notes.



Rich Schleuning, F.I.R.S.T. Manager

Soybean Stats:

Yield Range: 50.4-61.7 bu. per acre
 Yield Average: 57.3 bu. per acre
 Top \$ Per Acre: \$953.10

Soybean Field Notes: Ohio Northwest

Bloomdale—This test location went through some very dry conditions. According to Larry Bishop, F.I.R.S.T. farmer, a foliar application of Quadris, Warrior and 9-18-9 really turned the crop around. Late-August rains also helped put bushels on. Having six pods per node with nodes 1” apart on 40”-tall plants really delivered yield. Bishop was very pleased with the soybean yields on his farm averaging in the mid-70s bu. per acre.

Celina—This location struggled from the start. Soil conditions were dry at planting and required rain so the seeds could initiate germination. Seedlings struggled past the

initial dryness only to face a full-fledged drought and more stress. The soil moisture-holding capacity at this site varied with changes in subsoil. Some plants had access to deep subsoil moisture; others didn't. As a result, crop height was uneven across the test. Yields were a bit more variable than we would've liked but this had become the norm for the season.

Dunkirk—The hot and dry summer was followed with remnant rains from Hurricane Isaac in early fall. These late-season rains helped generate the 60-bu.-per-acre yield averages in the area. The plants had nice growth, from 48” to 55” tall, with solid pod set (up to five

Pods per node). We observed good plant health with no disease or insect pressure. The average yield on the Dunkirk test plot was 57.7 bu. per acre.

Leipsic—This late-planted plot location got help from an application of Quadris for disease control. The mid-season high temperatures appeared to put the hurt on this crop. After being sprayed with Quadris, the site appearance turned around and the plants started looking great. The late rains helped fill plant tops like a Christmas tree. Area soybean yields averaged in the low 50s to mid-50s bu. per acre, while this test produced 57.3 bu. per acre.

2.7-3.4 Maturity Group

Top 20 of 45 tested

Company/Brand	Product/Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Bloomdale	Celina	Dunkirk	Leipsic
Specialty	3494CR2	RR2Y	3.4	R	Ac,PV	61.7	15.6	1	953	64.1	63.4	62.9	56.5
Ebberts	2300RR2	RR2Y	3.0	R	Ac	61.4	15.5	1	949	61.9	69.6	56.7	57.5
Steyer	2702R2	RR2Y	2.7	MR	SStd	60.0	15.4	1	927	60.0	61.4	62.1	56.3
Pioneer	93Y40 \$	RR	3.4	R	None	60.0	15.6	1	927	63.0	58.9	61.4	56.5
Pioneer	92Y91 \$	RR	2.9	S	None	59.5	15.5	1	919	58.5	59.9	58.1	61.3
Specialty	2812CR2	RR2Y	2.8	R	Ac,PV	59.4	15.6	1	918	55.8	67.4	57.1	57.3
LG Seeds	C3399R2	RR2Y	3.4	R	Ac	59.0	15.4	1	912	63.8	56.5	58.5	57.1
Channel	3402R2	RR2Y	3.4	R	Ac,PV	58.9	15.6	1	910	59.0	62.8	57.8	55.9
Channel	3303R2	RR2Y	3.3	R	Ac,PV	58.7	15.6	1	907	57.8	57.1	57.0	62.8
Ebberts	2342RR2	RR2Y	3.4	R	Ac	58.5	15.7	1	904	58.6	51.4	61.3	62.6
Specialty	3200CR2	RR2Y	3.2	R	Ac,PV	58.4	15.4	1	902	55.6	59.2	60.0	58.6
Specialty	3012CR2	RR2Y	3.0	R	Ac,PV	58.4	15.5	1	902	56.0	57.5	63.6	56.6
Channel	2800R2	RR2Y	2.8	R	Ac,PV	58.4	15.6	1	902	56.6	68.2	55.3	53.5
Ebberts	2312RR2	RR2Y	3.1	R	Ac	58.1	15.5	1	898	56.8	60.3	61.9	53.5
Burtch Seed Co.	313R2	RR2Y	3.1	R	Ac	58.0	15.4	1	896	55.5	65.9	56.3	54.2
Specialty	3151CR2	RR2Y	3.1	R	Ac,PV	57.9	15.4	1	895	58.7	54.4	58.4	60.1
Channel	3306R2	RR2Y	3.3	R	Ac,PV	57.9	15.5	1	895	53.0	54.8	68.7	55.2
Stine	30RD02 \$	RR2Y	3.0	R	CMB	57.8	15.4	1	893	59.2	56.1	54.4	61.3
Ebberts	2293RR2	RR2Y	2.9	R	Ac	57.8	15.5	1	893	58.1	59.6	57.2	56.4
Burtch Seed Co.	363R2	RR2Y	3.6	R	Ac	57.5	15.5	1	888	59.7	51.0	66.2	52.9
Site Averages =			57.3			15.5		1	885	57.2	56.9	57.7	57.3
LSD (0.10) =			ns			ns		ns		6.4	8.5	7.3	4.5



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