Special Sponsored Section 2013

Ohio River and Mid-Atlantic Edition

Farmer's Independent Research of Seed Technologies FIRST

Evaluating Corn Hybrids and Soybean Varieties









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

first farmer's independent research of seed technologies

BAYER PONCHO VOTiVO

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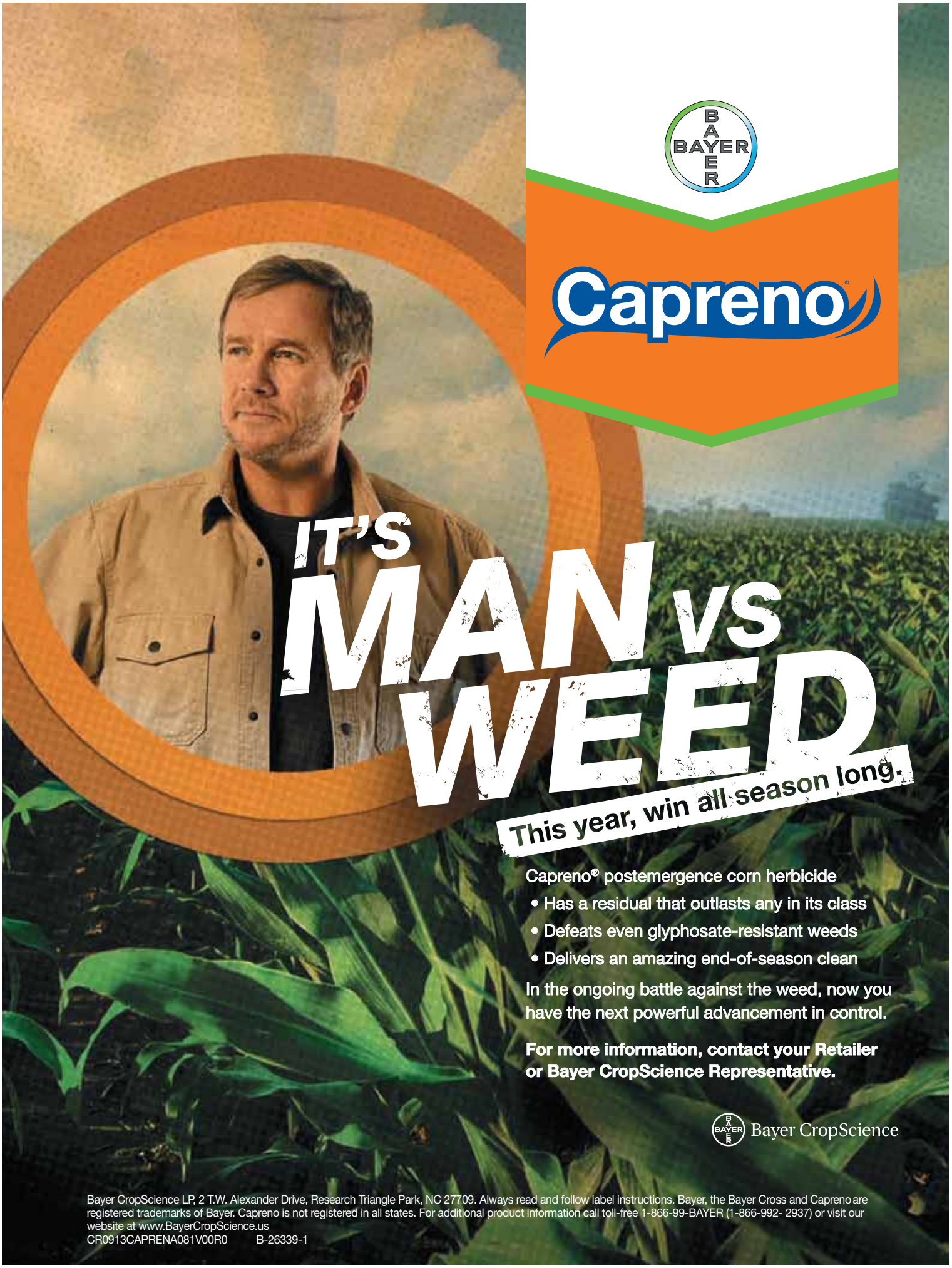


Contents

Ohio River and Mid-Atlantic Edition

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

Other editions available at www.firstseedtests.com/media.shtml

Corn Results

SOYBEAN RESULTS

Technologies*

3000GT	Agrisure® 3000GT (CB,RW,LL,GT)
3011A	Agrisure® Artesian® (CB,RW,LL,GT)
3110	Agrisure® Viptera® 3110 (Vip,CB,LL,GT)
3111	Agrisure® Viptera® 3111 (Vip,CB,RW,LL,GT)
3122	Agrisure® 3122 (CB,HXX,RW,LL,GT)
3220	Agrisure® Viptera® 3220 (Vip,CB,HX,LL,GT)
AM	Optimum® AcreMax® (YGCB,HX,LL,RR2)
AM-R	Optimum® AcreMax® (YGCB,HX,RR2)
AM1	Optimum® AcreMax®1 (HXT,LL,RR2)
AMRW	Optimum® AcreMax® Rootworm (HXRW,LL,RR2)
AMRW-R	Optimum® AcreMax® Rootworm (HXRW,RR2)
AMX	Optimum® AcreMax® Xtra (YGCB,HXT,LL,RR2)
AMX-R	Optimum® AcreMax® Xtra (YGCB,HXT,RR2)
AMXT	Optimum® AcreMax® Xtreme (YGCB,HXT,LL,RR2)
B	Blended seed (i.e. refuge blend)
CB/LL	Agrisure® CB/LL
CB/LL/RW	Agrisure® CB/LL/RW
GT	Agrisure® GT
GT/CB/LL	Agrisure® GT/CB/LL
HX	Herculex® 1, contains LL
HX,RR2	Herculex® 1, Roundup Ready 2 Corn
HXRW	Herculex® Rootworm, contains LL
HXT	Herculex® Xtra (HX,HXRW,LL)
HXT,RR2	Herculex® Xtra, Roundup Ready 2 Corn
LL	LibertyLink®
None	Conventional, non-GMO
OI	Optimum® Intrasect® (YGCB,HX,LL,RR2)
OIX	Optimum® Intrasect® Xtra (YGCB,HXT,LL,RR2)
OIXT	Optimum® Intrasect® Xtreme (YGCB,HXT,RW,LL,RR2)
OT	Optimum® TRIsect® (HX,RW,LL,RR2)
RR	Roundup Ready® soybeans
RR2	Roundup Ready® 2 Corn
RR2Y	Genuity® Roundup Ready 2 Yield® soybeans
STS	STS® - sulfonylurea tolerant soybeans
STX	SmartStax® (VT3P,HXX)
VT2P	Genuity® VT Double Pro®
VT3	YieldGard VT Triple®
VT3P	Genuity® VT Triple Pro®
YGCB	YieldGard® Corn Borer

** The refuge component genetics may vary in a refuge blend seed product.*

Seed Treatments**

?	information not provided
A	Allegiance®
AC	Acceleron® fungicide products
ACi	Acceleron® fungicide and insecticide products
AM	ApronMaxx®
AP	Apron XL®
AVB	Avicta® Complete Beans
AVC	Avicta® Complete Corn
C	Cruiser®
C2, C5, C1	Cruiser® at 0.25, 0.5 and 1.25 mg ai/seed, respectively
CC	CurryCoat™
CE	Cruiser Extreme®
CM	CruiserMaxx® Corn
CMB	CruiserMaxx® Beans
CMBV	CruiserMaxx® Beans with Vibrance
D	Dynasty® (azoxystrobin)
DPHB	DPH Boost™
EE	Evergol™ Energy
Es	Escalate®
Ex	Excalibre™
G	Gaucho®
I	Inovate™ System
M	Maxim XL®
MQ	Maxim Quattro®
None	untreated
O	Optimize®
PV	Poncho®/Votivo®
P2, P5, P1	Poncho® at 0.25, 0.5 and 1.25 mg ai/seed, respectively
R	Raxil® (tebuconazole)
RS	Right Stand™
SCE	SmartCote™ Extra
SDPI	Servo DPI
SS+	Soyshield Plus™
SStd	SureStand™
St	Stamina® (pyraclostrobin)
T	Trilex® (trifloxystrobin)
V	Votivo®
Z	zinc

*** Seed treatments may include unspecified plant health promoting components.*

How to Interpret FIRST Trials

Farmer's Independent Research of Seed Technologies (FIRST) 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 2013, we compared yields of 1,032 corn grain and 706 soybean products. In total, more than 78,210 plot strips in 500 tests spread across 308 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 FIRST seed tests. Exceptions are check products (denoted by CK), chosen by FIRST 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.

FIRST 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 minimum 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 or four soybean locations within the region. Products are replicated three times per test, randomized 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, 2,001 to 12,000 eggs or more than 12,000 eggs are classified as low, medium or high populations, respectively.

FIRST 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 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).

FIRST 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.

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. VPMaxx® brand seed is distributed by AgVenture, Inc. XL® and Phoenix® brand seeds are distributed by Beck's Superior Hybrids. Curry®, G2®, HPT®, RPM®, Supreme EX®, VPMaxx® and XL® are registered trademarks of DuPont Pioneer.

ns – not significant

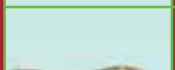
SCN Resistance: S – susceptible, MR – Moderately Resistant, R – Resistant.

For more details, additional results and other editions visit *www.firstseedtests.com.*

first farmer's independent research of seed technologies

KNOW YOUR CORN NEMATODES

INFORMATION COMPILED FROM RECENT UNIVERSITY EXTENSION ARTICLES.

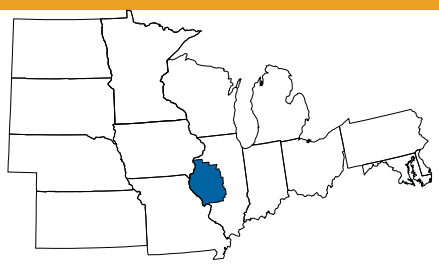
COMMON NAME		DAMAGE RATING	SOIL TYPE	THRESHOLD* (per 100 cc soil)	ADDITIONAL INFORMATION
	Needle	High	Sandy	5–25	Most damaging. Prefers cool, wet conditions. Can kill corn plants. Causes stubby roots. Found near rivers and streams and in continuous corn.
	Root-Lesion	Moderate	All types	50–100 Pre-plant 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.

Photos courtesy of J. Eisenback, Virginia Tech University.

PONCHO® VOTiVO®

Bayer CropScience



Corn Stats:
Yield Range: 155.7-226.6 bu. per acre
Yield Average: 194.1 bu. per acre
Top $ Per Acre: $996

Corn Field Notes: Illinois West Central

Eric Beyers, FIRST Manager

New in 2013—Gross income for conventional hybrids (designated with Technology "none") is calculated using a premium price 10% higher than the price used for genetically modified products in the test.

Clayton—This site received more than 4" of rain within minutes of planting and more rain that week. The heavy rains led to the test being discarded in July. Glyphosate was mistakenly applied and killed the conventional products. After review it was suspected that many of the stand reductions were hybrid-specific, so the site was harvested. Where ears existed, their kernel set, ear-tip fill and kernel depth were impressive. After reviewing yields, it was clear that stand and yield variation were not due to genetics, but rather to being planted in very wet verses moderately wet spots. Test results were rejected due to variable yield.

Delavan—Glyphosate was mistakenly applied postemergence and killed the conventional hybrids. This field received a timely 1.5" rain in July. Kernel set, grain quality and kernel depth were all very good. Lodging scores reflect a minimal amount of stalk rot. Estimated monthly rainfall totals here were 15" in May, 6" in June, 3.62" in July and 0.76" in August.

Galva—This test field received 15.89" of rain in May. Another 12.34" was added in June. These rains caused stress from which the crop never rebounded. Only 2.22" fell on July 1 and then it shut off for the rest of July and August. Any area in the field where water sat left corn roots too wet. Any area where water quickly drained had good yields. This field was also a second-year corn-on-corn site. Harvested ears varied in size from 3" to 7" with little girth. Most grain was small in size. Plant heights ranged from 6' to 8' tall. Lodging scores reflect stalk rot.

Macomb—FIRST farmer member Jerry Lewis was excited to report excellent corn yields in most fields. The trials had excellent plant emergence that produced large ears with a healthy girth. Kernel set, grain quality and kernel depth were excellent. Plant height ranged from 7' to 9' tall. The lodging scores reflect stalk lodging from stalk rot.

Virden—This site was planted late due to relentless spring rain. On-site rainfall totals were 16" in May, 5.75" in June, 2.75" in July and zero inches in August. After pollination, a strong windstorm root lodged the trials. It laid some hybrids completely flat, but they did goose-neck upright enough to make harvest possible. Ear development, kernel set and kernel depth were all good. Plant height ranged from 8' to 10' tall.

Williamsville—This site was planted late due to more than 16" of rainfall in May. It emerged nearly perfectly and had great yields. Kernel set, ear tips and kernel depth were very good. Standability was good, with minimal lodging due to stalk rot. Part of the full-season test stayed wet too long and yield suffered. Plants there had no ears or small ears. All the plants looked to be normal height, but some did not pollinate; that replication was dropped from the test.

Site Information						2013 Rainfall (inches)					
Illinois West Central						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Clayton	silty clay loam	minimum w/ fall till	corn, 2+ yr	136	5/24	14.25	6.13	2.99	0.50	-1.25	-3.36
Delavan	silty clay loam	strip-till	soybean	213	5/15	8.26	5.09	1.62	0.92	-2.72	-2.58
Galva	silty clay loam	strip-till	corn	209	5/14	13.89	12.34	7.22	2.49	3.38	-1.73
Macomb	silty clay loam	conventional w/ fall till	soybean	183	5/15	9.44	3.35	1.94	0.14	-2.19	-3.37
Virden	silt loam	conventional w/ fall till	soybean	200	6/7	11.58	3.01	2.31	0.47	-1.30	-2.45
Williamsville	silt loam	minimum w/ fall till	soybean	170	6/7	11.25	3.78	1.98	0.84	-2.49	-2.45

Rainfall obtained on-site (* denoted) or estimated from *www.weatherplot.com.* Rainfall Normals (1981-2010) from National Climatic Data Center.

FIRST Illinois West Central Corn Results

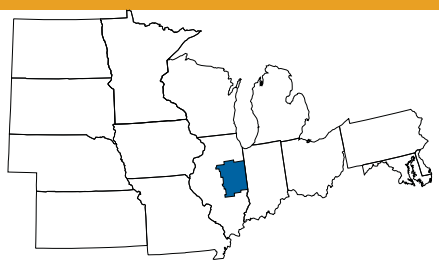
EARLY-SEASON TEST 105-110 Day CRM — **Top 30 of 63 tested**

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Clayton#	Delavan#	Galva	Macomb	Virden	Williamsville‡
AgriGold	A6472VT3Pro	VT3P	AC,P5V	110	206.6	16.3	3	923	1	198.8	252.8	151.1	**243.8**	**207.3**	224.0
Renk	RK797SSTX	STX	AC,P2	109	201.6	15.8	17	903	2	185.4	242.1	151.1	233.2	199.6	222.3
Pfister	2574RA	STX,B	CM,C2	110	199.3	17.6	19	884	6	211.4	250.4	**183.5**	**244.8**	158.4	210.4
Beck	XL 5475AMX^	AMX,B	Es	108	199.2	16.7	4	888	5	209.1	242.0	**180.2**	235.2	185.1	196.1
Wyffels	W6487RIB	VT3P,B	AC,P5V	110	198.9	16.3	5	889	3	147.8	240.4	138.3	236.8	195.9	224.4
Mycogen	2V709	STX,B	CM,C2	110	197.5	17.7	18	875	9	182.9	247.5	**174.1**	236.1	165.1	214.5
Wyffels	W5138	STX	AC,P5V	108	197.2	15.8	6	883	7	200.4	256.0	129.8	237.8	204.2	216.8
FS InVISION	FS 60ZV4	VT3P	AC,P5V	110	196.0	16.6	12	874	10	218.0	**268.1**	123.6	233.0	199.4	227.9
NK Brand	N61P-3000GT	3000GT	AVC,C5	107	195.8	16.9	20	872	11	206.3	242.9	**155.5**	228.3	180.6	218.9
NuTech/G2 Gen	5Z-109	OI	MQ,P1V,R	109	195.4	16.9	18	870	14	149.9	248.3	132.3	**241.5**	192.8	214.8
Stine	9632SS	STX	CM,C2	107	194.6	15.8	18	872	12	207.5	254.2	146.0	235.6	179.3	217.3
Great Lakes	5785VT3PRIB	VT3P,B	AC,P5V	107	194.6	16.0	5	871	13	188.0	247.2	130.4	235.0	204.6	208.3
Stone	5828RIB	STX,B	AC,P5V	108	193.7	15.6	0	869	15	194.2	231.4	152.5	217.3	195.0	209.9
Pfister	2547RA	STX,B	CM,C2	108	193.2	16.3	1	863	16	199.8	246.5	**164.0**	221.2	189.4	198.1
LG Seeds	LG5591VT3P	VT3P	AC,P5V	109	193.1	16.7	16	861	17	**219.8**	262.0	118.9	**242.2**	190.1	221.3
LG Seeds	LG2575VT3PRIB	VT3P,B	AC,P5V	110	192.9	16.6	17	860	20	217.3	245.0	148.1	230.9	176.4	216.3
Channel	210-95STXRIB	STX,B	AC,P5V	110	192.7	16.4	21	860	21	204.2	254.7	**154.9**	225.0	164.4	226.5
Renk	RK809GTCBLLRW	3000GT	CE,C2	110	192.7	16.8	1	858	24	193.9	**263.6**	135.6	224.2	198.5	212.3
Renk	RK776VT3P	VT3P	AC,P2	107	192.6	16.3	8	860	22	188.4	260.6	116.6	**242.3**	184.7	226.8
Wyffels	W5787RIB	VT3P,B	AC,P5V	108	192.5	16.1	12	861	18	193.1	245.7	103.1	**243.6**	198.4	224.7
Great Lakes	6087VT3PRIB	VT3P,B	AC,P5V	110	192.4	16.5	15	859	23	211.3	247.9	134.8	229.9	194.1	210.8
Steyer	10703GENSS RIB	STX,B	SStd	107	191.9	15.6	21	861	19	193.7	257.7	139.8	**241.9**	169.1	216.6
Great Lakes	5939VT3PRIB	VT3P,B	AC,P5V	109	191.9	16.3	8	857	26	205.2	261.6	101.3	231.5	205.5	**229.1**
Steyer	11004GENSS RIB	STX,B	SStd	110	191.8	16.8	6	854	28	202.1	242.3	140.7	219.7	184.2	222.4
Lewis	R1407SS	STX,B	AC,P5V	107	191.2	15.4	1	858	25	205.4	238.2	141.4	220.8	200.3	202.2
Dairyland	DS9809RA	STX,B	CM,C2	109	191.0	16.1	2	854	29	203.9	240.2	**173.1**	213.5	182.5	195.0
Stone	6058RIB	STX,B	AC,P5V	110	190.8	16.2	24	853	30	197.9	248.5	150.4	227.7	166.6	218.3
LG Seeds	LG2549VT3PRIB	VT3P,B	AC,P5V	109	190.8	16.4	6	852	31	180.0	254.7	117.0	231.9	192.2	221.9
Spectrum	5967	None	AC,P5V	109	177.9	16.1	11	876	8	killed	killed	81.8	231.0	179.7	219.1
Spectrum	5889	None	CM,C2,St	108	173.5	15.8	13	855	27	killed	killed	103.9	225.4	167.4	197.4
Pioneer	P1018AMX CK	AMX,B	MQ,P1V	110	199.9	17.4	20	888	4	**221.8**	255.2	**198.4**	232.9	155.9	212.5
Test Average =					**188.9**	**16.4**	**9**	**847**		**191.8**	**248.8**	**131.4**	**227.4**	**185.2**	**211.4**
LSD (0.10) =					19.4	0.8	ns			27.4	14.6	23.4	12.7	20.4	17.3

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

Wyffels	W7888RIB	STX,B	AC,P5V	114	**226.6**	19.1	7	996	1	209.8	268.8	**184.2**	254.6	**213.8**	**253.8**
ProHarvest	8330StaxRIB	STX,B	AC,P5V	113	**222.5**	20.6	13	970	2	211.6	263.3	**176.4**	252.8	**212.9**	**247.7**
AgriGold	A6533VT3PRIB	VT3P,B	AC,P5V	113	**217.0**	17.9	8	961	3	205.1	248.2	149.5	250.8	**225.2**	**242.6**
Pfister	2674RA	STX,B	CM,C2	112	**216.4**	18.5	8	955	4	200.5	247.9	169.1	250.1	**215.2**	231.3
Stone	6258RIB	STX,B	AC,P5V	112	214.3	17.5	4	951	5	209.7	263.0	**174.7**	251.4	198.9	232.3
Dekalb	DKC63-33RIB GC	STX,B	AC,P5V	113	214.2	17.4	20	951	6	207.7	260.6	**182.0**	**261.9**	177.5	235.5
Dyna-Gro	D52SS91RIB	STX,B	AC,P5V	112	213.7	19.0	7	940	8	153.4	263.2	**187.8**	245.7	195.1	226.2
FS InVISION	FS 61JX1	STX	AC,P5V	111	213.0	18.3	2	941	7	208.0	241.7	**178.2**	237.1	207.6	229.2
Mycogen	2C786	STX	CM,C2	114	212.5	21.0	0	924	12	207.6	245.8	**191.3**	238.9	**218.0**	201.9
Dairyland	DS9212SSX	STX	CM,C2	112	211.3	18.0	10	935	9	214.6	265.0	**181.5**	240.1	206.8	216.8
Pfister	2770RA	STX,B	CM,C2	113	210.3	21.1	0	914	15	212.1	252.0	**177.1**	235.9	**217.3**	210.9
LG Seeds	LG5618STX	STX	AC,P5V	113	210.2	18.9	6	925	11	199.4	258.3	156.4	255.7	205.6	223.1
Dekalb	DKC62-08RIB GC	STX,B	AC,P5V	112	209.8	18.2	4	927	10	**225.8**	265.3	155.5	**255.8**	**214.2**	213.8
Great Lakes	6348STX	STX	AC,P5V	113	209.1	18.3	9	924	13	207.9	246.9	**182.7**	236.7	194.7	222.3
Renk	RK941VT3P	VT3P	AC,P2	114	208.3	21.0	13	906	22	160.9	267.4	165.5	249.0	209.3	209.5
FS InVISION	FS 63SX1 RIB	STX,B	AC,P5V,Z	113	207.7	20.8	10	905	23	211.6	255.6	**171.6**	248.0	195.0	216.1
Renk	RK890VT3P	VT3P	AC,P2	113	206.4	17.8	1	914	16	211.9	250.2	109.9	**257.9**	**211.1**	**246.8**
Pioneer	P1162AM1 GC	AM1,B	CE,C2	111	206.0	17.9	1	912	17	163.9	230.2	**169.8**	226.4	**214.0**	213.6
Great Lakes	6354VT3PRIB	VT3P,B	AC,P5V	113	205.8	18.6	1	908	18	218.9	239.5	138.3	251.1	205.8	228.1
LG Seeds	LG2620VT3PRIB	VT3P,B	AC,P5V	113	205.2	18.0	3	908	19	214.3	243.6	117.4	244.4	**220.1**	238.7
Dyna-Gro	CX53VP22	VT3P	AC,P5V	113	205.1	18.0	7	908	20	**235.0**	259.0	132.0	243.7	206.3	238.2
Pfister	2595RA	STX,B	CM,C2	111	204.5	18.9	2	900	24	202.9	253.5	158.3	233.0	202.1	224.6
Dairyland	DS9311SSX	STX	CM,C2	112	203.8	18.7	1	898	25	210.9	249.1	**179.6**	225.8	202.4	207.2
Pfister	2672RA	STX,B	CM,C2	112	203.2	18.9	0	895	27	202.5	234.7	**173.1**	231.2	204.6	203.7
Beck	XL 6175AMX^	AMX,B	Es	112	203.0	18.1	8	898	26	211.2	249.6	**171.5**	242.9	197.5	200.1
Great Lakes	6232VT3PRIB	VT3P,B	AC,P5V	112	201.9	17.9	6	894	28	202.2	268.7	126.3	245.5	201.7	234.0
Lewis	R1312SS	STX,B	AC,P5V	112	201.8	17.8	3	894	29	196.9	253.4	159.5	233.7	202.5	211.5
AgriGold	A6517VT3PRIB	VT3P,B	AC,P5V	113	201.8	17.7	5	894	30	201.9	246.3	145.2	238.1	200.5	223.4
Spectrum	6104	None	CM,C2,St	111	187.6	17.1	4	919	14	killed	killed	84.1	250.9	199.7	215.6
Spectrum	6241	None	AC,P5V	112	187.5	19.3	5	908	21	killed	killed	98.2	253.2	191.8	206.8
Pioneer	P1018AMX CK	AMX,B	MQ,P1V	110	198.2	17.0	21	882	41	169.0	261.0	**186.9**	244.0	150.7	211.1
Test Average =					**199.2**	**18.5**	**9**	**881**		**195.6**	**256.3**	**142.4**	**242.6**	**190.6**	**221.1**
LSD (0.10) =					15.7	0.8	ns			28.2	15.4	26.9	13.2	19.4	19.7

= not included in summary, killed non-GMOs, early- and late-season tests; ‡ = 2 replications, late-season test



Corn Stats:
Yield Range: 176.9-221.0 bu. per acre
Yield Average: 202.5 bu. per acre
Top $ Per Acre: $985

Corn Field Notes: Illinois East Central

Eric Beyers, FIRST Manager

New in 2013—Gross income for conventional hybrids (designated with Technology "none") is calculated using a premium price 10% higher than the price used for genetically modified products in the test.

Bethany—FIRST farmer member Mike Bland said that his sidedress nitrogen (N) really helped improve his on-farm yields and it did the same in the trials. Abundant early-season rain potentially leached away some herbicide and N. The trials had a few signs of green snap but most lodging reported was due to stalk rot. Plant heights were 9' to 11' tall and ear development was excellent. Kernel depth was 0.5".

Forsyth—Glyphosate was mistakenly post-applied to this site and conventional hybrids did not survive. FIRST farmer Jim Cullison stated that one of his nearby fields experienced 15% green snap from strong winds. Some full-season hybrids lodged from the same event. This did not affect any early hybrids. A lack of rain during July and August caused some hybrids to cannibalize their stalks while developing yield. These hybrids were prematurely dead at harvest and had small grain and grain moistures below 15.5%.

Paxton—The lack of rain in July and August resulted in less-than-favorable ear development. Kernel set was good with minimal tip reduction but many ears only measured 4" in length. Kernel depth was shallow to moderate. Some minimal stalk and root lodging was noted.

Towanda—FIRST farmer Judson Stover commented that he has seen more consistent corn yields across his fields now since he has tiled them. This test showed deep kernel depth and robust 10' to 12' plant heights. This site received 1.42" of rain each in July and August. For August, that is an inch more than most other farms in this test region, which may help explain the tremendous top end yields. Stalk lodging was apparent but overall it was minimal.

Tuscola—Some hybrids at this site had good kernel depth near 0.5" and then others only had 0.25" to 0.375" depths. July had less than 2.5" of rainfall and August had only 0.81". This no-till test may have helped conserve some soil moisture during the drought stress as well. Plant lodging mainly reflects stalk lodging due to stalk rot.

Watseka—While this site had uniform stands, its early emergence was stunted in some areas. FIRST farmer Linden Wessels felt that he may have pushed spring tillage too quickly on wet soil and possibly created some compaction issues. Wessels also commented on the numerous replants that happened due to the May to June rains. Most of the trial, with the exception of some lower areas of the field, appeared to be uniform in plant height at harvest. Kernel depth was near 0.5" and kernel set was great with little ear-tip dieback on ears. Lodging was slight, but more could have happened if a strong wind had developed, as some hybrids had cannibalized their stalks due to a lack of rain in July, August and September. Corn heights ranged from 4' in the low hole areas to 10' to 12' normally. Grain quality was excellent.

Site Information						2013 Rainfall (inches)					
Illinois East Central						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Bethany	silt loam	strip-till	soybean	180	5/16	6.33	4.78	2.97	0.82	-1.54	-2.35
Forsyth	silty clay loam	minimum w/ fall till	soybean	186	5/16	8.39	5.56	2.02	0.82	-1.96	-2.95
Paxton	silty clay loam	minimum w/ fall till	soybean	174	5/13	5.77	5.87	3.79	1.59	-0.49	-1.89
Towanda	silty clay loam	strip-till	soybean	180	5/14	8.33	4.26	1.42	1.99	-2.72	-2.29
Tuscola	silty clay loam	no-till	soybean	164	5/17	6.71	8.85	2.45	0.81	-2.31	-2.45
Watseka	sandy loam	minimum w/ fall till	corn, 2+ yr	202	5/8	6.65	7.57	1.92	2.60	-2.57	-0.85

Rainfall obtained on-site (* denoted) or estimated from *www.weatherplot.com.* Rainfall Normals (1981-2010) from National Climatic Data Center.

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FIRST Illinois East Central Corn Results

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

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Bethany	Forsyth#	Paxton	Towanda	Tuscola	Watseka‡
Sun Prairie	SP2640VT3PRIB	VT3P,B	AC,P2	110	**210.7**	17.6	0	934	4	220.5	203.0	165.0	**243.3**	192.9	231.9
LG Seeds	LG5591VT3P	VT3P	AC,P5V	109	**210.4**	16.7	0	938	2	225.6	184.8	**177.6**	217.3	**202.6**	229.1
AgriGold	A6472VT3Pro	VT3P	AC,P5V	110	**210.4**	17.7	0	933	5	223.4	208.8	167.8	**235.4**	191.8	233.7
NK Brand	N61P-3000GT	3000GT	AVC,C5	107	207.3	17.8	0	918	9	217.4	206.1	172.5	226.2	**197.3**	223.3
LG Seeds	LG5533VT3P	VT3P	AC,P5V	107	206.9	16.6	2	923	7	226.1	184.0	168.0	222.4	193.9	224.1
Great Lakes	6087VT3PRIB	VT3P,B	AC,P5V	110	206.9	17.0	0	921	8	217.7	194.9	171.9	**239.6**	188.2	217.0
Channel	210-95STXRIB	STX,B	AC,P5V	110	206.1	17.0	2	917	11	220.0	**219.6**	167.3	220.6	192.4	230.3
Beck	Beck 5509A3	3000GT	Es	110	205.5	17.3	0	913	12	224.6	196.5	160.9	**241.0**	179.8	221.0
Great Lakes	5939VT3PRIB	VT3P,B	AC,P5V	109	204.7	17.1	0	910	14	226.1	180.5	167.8	215.2	192.7	221.7
Renk	RK791SSTX	STX,B	AC,P2	108	204.0	16.4	0	911	13	210.2	199.6	171.4	221.7	191.4	225.5
FS InVISION	FS 60ZV4	VT3P	AC,P5V	110	204.0	16.7	1	909	16	210.9	168.2	151.5	224.5	192.5	**240.7**
Renk	RK776VT3P	VT3P	AC,P2	107	203.9	16.4	0	910	15	**229.0**	184.2	164.7	228.5	180.7	216.5
Dyna-Gro	CX50VP43	VT3P	AC,P5V	110	203.8	16.7	1	908	18	216.4	189.7	150.4	**236.0**	**197.7**	218.5
NuTech/G2 Gen	5Z-709	OI	MQ,P1V,R	109	203.5	16.8	0	907	19	224.9	194.5	150.6	228.7	184.4	228.8
Wyffels	W5787RIB	VT3P,B	AC,P5V	108	203.4	16.3	0	909	17	218.1	182.7	157.7	**236.4**	179.5	225.1
Steyer	11004GENSS RIB	STX,B	SStd	110	203.4	16.9	0	906	20	213.6	179.6	159.8	225.5	188.9	229.2
NuTech/G2 Gen	5Z-109	OI	MQ,P1V,R	109	203.4	17.4	1	903	22	219.9	188.8	163.3	220.2	191.4	222.3
Augusta	A5658GTCBLL	GT/CB/LL	CE,C2	108	203.0	16.7	1	905	21	220.5	180.9	157.0	229.8	185.0	222.9
Augusta	A4658GT3110	3110	CE,C2	108	203.0	17.4	0	901	23	213.5	177.0	155.3	**237.1**	183.4	225.7
Renk	RK809GTCBLLRW	3000GT	CE,C2	110	201.3	17.2	0	895	28	225.6	186.3	158.7	**234.9**	172.7	214.8
Great Lakes	5785VT3PRIB	VT3P,B	AC,P5V	107	201.2	16.3	0	899	24	224.2	172.2	162.1	213.3	187.4	219.1
Wyffels	W6487RIB	VT3P,B	AC,P5V	110	201.2	16.7	1	897	25	221.8	182.6	153.7	226.6	186.8	217.1
LG Seeds	LG2575VT3PRIB	VT3P,B	AC,P5V	110	201.0	16.9	0	895	29	224.2	197.8	163.7	212.9	182.5	221.8
Stone	6058RIB	STX,B	AC,P5V	110	200.6	16.3	1	896	27	207.8	**218.7**	156.7	218.5	185.2	**234.8**
Stine	9632SS	STX	CM,C2	107	200.4	15.9	1	897	26	211.4	211.3	165.7	229.7	186.7	208.7
Stone	5828RIB	STX,B	AC,P5V	108	200.2	16.2	0	895	30	215.2	199.5	**184.9**	204.8	190.4	205.6
Wyffels	W5138	STX	AC,P5V	108	200.2	16.6	1	893	31	213.9	211.8	148.0	224.6	187.2	227.1
Spectrum	5967	None	AC,P5V	109	197.3	16.5	3	969	1	223.2	killed	145.1	215.1	185.9	217.3
Spectrum	5889	None	CM,C2,St	108	190.3	16.3	3	936	3	202.2	killed	150.6	212.7	175.9	209.9
Spectrum	5648	None	CM,C2,St	106	188.5	16.6	0	926	6	215.3	killed	156.3	191.9	171.3	207.6
Pioneer	P1018AMX CK	AMX,B	MQ,P1V	110	206.3	17.1	0	918	10	213.6	204.5	**177.5**	227.9	195.1	217.2
Test Average =					**198.2**	**16.9**	**1**	**886**		**214.1**	**193.9**	**157.0**	**219.8**	**183.7**	**216.5**
LSD (0.10) =					10.2	0.6	5			14.8	23.3	19.5	14.6	11.6	17.3

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

Wyffels	W7888RIB	STX,B	AC,P5V	114	**221.0**	19.6	0	969	3	233.7	211.5	187.4	**254.4**	**200.5**	229.2
Dyna-Gro	D52SS91RIB	STX,B	AC,P5V	112	**219.2**	19.6	0	961	5	**238.4**	**223.1**	175.8	249.2	**203.4**	229.1
Dyna-Gro	D51VP32	VT3P	AC,P5V	111	**217.6**	18.0	0	963	4	234.4	204.4	180.0	247.0	**199.3**	227.3
Great Heart	HT-7240VT3PRIB	VT3P,B	AC,P5	112	**217.0**	18.4	0	958	6	229.5	213.7	184.1	244.8	193.9	232.9
Great Heart	HT-7150VT3P	VT3P	AC,P5	111	**216.9**	18.4	0	958	7	233.4	193.7	186.3	234.7	186.3	**243.7**
Dyna-Gro	CX53VP22	VT3P	AC,P5V	113	**216.5**	18.4	0	956	8	228.3	175.3	179.4	248.5	186.1	**240.2**
LG Seeds	LG5618STX	STX	AC,P5V	113	**215.7**	19.4	0	947	10	230.1	207.9	184.5	**255.7**	188.9	219.5
Steyer	11504VT2PRO RIB	VT2P,B	SStd	114	214.8	18.1	0	950	9	230.4	162.3	172.8	246.6	187.9	236.4
AgriGold	A6533VT3PRIB	VT3P,B	AC,P5V	113	214.6	18.8	0	945	11	**242.6**	185.3	173.2	238.1	**199.6**	219.3
Stine	R9739VT3Pro	VT3P,B	AC,P2	113	213.8	19.1	0	940	12	233.2	171.2	169.3	240.6	**200.5**	225.4
Dairyland	DS9311SSX	STX	CM,C2	112	213.3	18.9	0	939	14	228.4	217.8	178.2	245.0	184.9	229.9
Channel	213-59STXRIB	STX,B	AC,P5V	113	213.1	18.6	0	940	13	221.1	205.8	169.5	246.3	191.5	237.3
Mycogen	2A749	STX,B	CM,C2	111	213.0	19.1	0	937	15	228.6	209.8	175.9	236.0	183.4	**241.2**
AgriGold	A6499STX	STX	AC,P5V	112	211.9	19.3	0	931	20	229.0	211.0	156.9	**250.6**	**203.0**	219.9
Wyffels	W7477RIB	VT3P,B	AC,P5V	112	211.7	18.0	1	937	16	**238.0**	195.2	157.8	237.2	195.8	229.6
FS InVISION	FS 62MV4 RIB	VT3P,B	AC,P2,Z	112	211.2	18.3	0	933	17	226.6	166.9	179.5	240.3	186.7	222.9
Dairyland	DS9111SSX	STX	CM,C2	111	211.1	18.4	1	932	18	226.9	185.7	176.0	231.6	193.3	227.9
Pfister	2595RA	STX,B	CM,C2	111	211.1	18.8	1	930	22	231.1	204.2	183.0	231.0	184.0	226.2
Augusta	A4564GENSS	STX	M,D,P5	114	211.1	20.9	0	919	30	223.5	204.0	176.0	**249.9**	184.4	221.9
Dairyland	DS9212SSX	STX	CM,C2	112	210.8	18.1	7	932	19	226.5	188.2	166.6	241.9	186.4	232.4
Wyffels	W7718RIB	STX,B	AC,P5V	112	210.8	18.4	0	931	21	224.6	194.6	182.4	237.5	189.6	220.1
Mycogen	2V779	STX,B	CM,C2	112	210.3	18.8	0	926	25	224.9	209.6	**189.1**	231.4	185.0	221.2
Renk	RK890VT3P	VT3P	AC,P2	113	210.2	18.2	0	929	24	230.9	196.1	145.2	**252.5**	193.4	229.2
Augusta	A5565VT3Pro	VT3P	M,D,P5	114	209.9	19.4	0	921	27	230.1	195.0	168.9	241.7	180.0	228.8
Stone	6258RIB	STX,B	AC,P5V	112	209.2	18.1	0	925	26	223.3	181.4	149.4	245.3	**208.7**	219.2
Great Lakes	6354VT3PRIB	VT3P,B	AC,P5V	113	209.1	18.8	0	921	28	219.8	193.8	181.9	243.6	189.4	210.9
NK Brand	N70J-3011A	3011A	AVC,C5	112	208.7	18.6	0	920	29	230.6	199.0	169.3	221.5	**199.3**	222.9
Dekalb	DKC62-97RIB GC	VT3P,B	AC,P2	112	206.9	17.3	0	919	31	225.6	164.4	154.0	235.5	187.8	231.6
Spectrum	6241	None	AC,P5V	112	203.3	19.2	0	985	1	**235.3**	killed	162.3	224.2	174.0	220.9
Spectrum	6104	None	CM,C2,St	111	200.1	16.5	0	983	2	222.1	killed	149.6	237.7	179.7	211.4
Pioneer	P1018AMX CK	AMX,B	MQ,P1V	110	209.2	17.2	0	930	23	222.5	201.4	**190.9**	222.2	185.7	224.8
Test Average =					**206.7**	**18.9**	**0**	**913**		**222.9**	**191.5**	**167.5**	**234.6**	**185.4**	**223.1**
LSD (0.10) =					8.9	0.8	1			12.2	27.0	21.1	15.3	12.4	14.7

= results not included in summary, non-GMO products killed, early- and full-season tests; ‡ = 2 replications, early-season test

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Corn Stats:
Yield Range: 168.3-211.7 bu. per acre
Yield Average: 190.4 bu. per acre
Top $ Per Acre: $992

Corn Field Notes: Illinois South

Eric Beyers, FIRST Manager

New in 2013—Gross income for conventional hybrids (designated with Technology "none") is calculated using a premium price 10% higher than the price used for genetically modified products in the test.

Belleville—These trials were under water three times within weeks of planting. The site received three 5" rainfalls that reduced stands of a few products. John Barttelbort commented that in July, a wind microburst (a strong wind downdraft) vortexed through the trials, causing some stalk lodging. Stalk integrity varied by hybrid. Some stood very well and others did not. Yields were excellent. Kernel set, ear-tip fill and kernel depth were all excellent. Plant height ranged from 10' to 12' tall.

Du Quoin—This site received more than 4" of cold rain immediately upon planting. The combination of rain and soil pathogens reduced stands in some hybrids or stunted corn in some plots with good stands. The rains persisted for weeks, preventing conventional postemergence herbicide application. To control weeds 12" tall, glyphosate was applied, killing the conventional seed products. The non-GMOs were replanted on June 21 but their results are not reported. July provided timely rains totaling 3.88". Ears produced good kernel set and depth. Hybrids had large flex ears in reduced-stand areas. Grain quality was very good. Stalk lodging from stalk rot was significant.

Flora—FIRST farmer member Kent Warren said that early and abundant rain must have leached away the early-season-applied nitrogen (N). He also said their later sidedress-applied N helped yields tremendously. The trials had healthy plants 10' to 12' tall. Most ears had good kernel set with minimal ear-tip reduction. Kernel depth was good at about 0.375" to 0.5" deep. Stalk integrity was good, as many plants still exhibited healthy stalk rinds.

Salem— FIRST farmer member Tom Beyers stated that "like the trial field, any areas [in his field] that retained excess spring rains stunted the hybrids' growth." Test plants in wet, low areas had stunted growth and lacked crop canopy, allowing fall panicum to flourish and further rob yields. Water affected about one-third to half of the trial area. Drier areas had taller plants, better kernel depth and better yield. Early-season test results were rejected due to high variability. One full-season test replication was discarded to improve data quality.

Shumway—FIRST farmer member David Soltwedel shared that he was happy with the overall good yields. A few miles north of the trials, a small tornado green-snapped one of their corn fields near the town of Stewardson. The trials here had some green snap, but the main lodging cause was stalk rot. Plant heights were robust and ranged from 10' to 12' tall. Grain quality, kernel set and kernel depth were very good.

Vandalia—The Vandalia site had excellent yields for a June 11 planting date. Deep kernels had good cob retention, making them more difficult to thresh. Robust plant heights ranged from 10' to 12' tall.

Site Information						2013 Rainfall (inches)					
Illinois South						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Belleville	silt loam	conventional	soybean	160	5/26	9.05	7.64	4.71	1.98	0.66	-1.32
Du Quoin	clay loam	no-till	soybean	206	5/30	6.57	4.42	3.88	0.92	0.02	-2.22
Flora	silty clay loam	minimum	soybean	150	5/20	3.84	10.95	5.56	2.05	1.45	-1.09
Salem	silty clay loam	conventional	soybean	150	5/20	7.34	8.02	3.84	4.13	-0.18	0.74
Shumway	silt loam	minimum	soybean	206	6/12	7.28	5.30	5.13	0.97	1.17	-1.73
Vandalia	silty clay loam	minimum	soybean	188	6/11	6.77	7.41	7.08	3.34	3.48	0.14

Rainfall obtained on-site (* denoted) or estimated from *www.weatherplot.com.* Rainfall Normals (1981-2010) from National Climatic Data Center.

FIRST Illinois South Corn Results

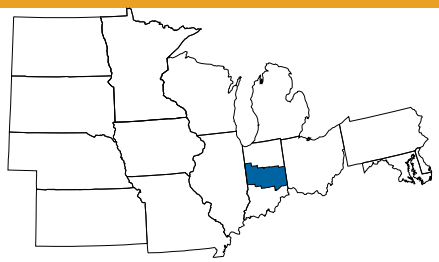
EARLY-SEASON TEST 107-112 Day CRM — **Top 30 of 60 tested**

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Belleville	Du Quoin#	Flora	Salem#‡	Shumway	Vandalia‡
Dyna-Gro	D52VC91	VT2P	AC,P5V	112	**209.2**	18.0	0	926	3	241.3	117.0	166.5	143.5	**191.3**	**237.7**
Augusta	A5658GTCBLL	GT/CB/LL	CE,C2	108	**207.6**	17.8	5	920	4	242.6	**173.4**	**182.6**	105.9	174.3	**230.7**
Spectrum	6241	None	AC,P5V	112	204.8	19.2	0	992	1	**251.7**	killed	165.5	137.2	183.6	218.4
Dairyland	DS9111SSX	STX	CM,C2	111	204.8	18.0	1	906	6	231.5	140.4	158.9	150.6	**195.5**	**233.2**
LG Seeds	LG5607VT3P	VT3P	AC,P5V	111	204.4	17.1	0	909	5	239.4	123.4	172.8	132.6	173.9	**231.6**
NuTech/G2 Gen	5Z-709	OI	MQ,P1V,R	109	203.0	16.9	1	904	7	225.0	**169.5**	162.0	126.2	**196.9**	**228.1**
Great Heart	HT-7150VT3P	VT3P	AC,P5	111	202.4	18.0	0	896	9	232.3	151.4	149.1	158.2	**198.7**	**229.5**
AgriGold	A6458VT3PRIB	VT3P,B	AC,P5V	109	202.2	16.9	0	900	8	241.5	158.5	158.9	138.3	177.9	**230.6**
Great Heart	HT-7240VT3PRIB	VT3P,B	AC,P5	112	201.1	18.1	1	889	12	243.4	150.8	173.4	154.2	174.3	213.2
Great Lakes	5939VT3PRIB	VT3P,B	AC,P5V	109	200.2	16.7	2	892	10	251.1	158.1	157.0	147.3	164.1	**228.7**
Augusta	A4658GT3110	3110	CE,C2	108	200.1	17.9	8	886	13	245.0	**167.5**	171.9	145.3	168.9	214.4
Stine	9631VT3Pro	VT3P	CM,C2	109	200.0	17.0	1	890	11	230.9	**167.4**	173.6	127.4	169.4	226.2
Wyffels	W6487RIB	VT3P,B	AC,P5V	110	198.9	16.8	1	886	14	240.1	129.9	177.6	124.4	164.7	213.2
Beck	XL 5828AMX^	AMX,B	Es	109	198.7	17.1	1	884	15	236.8	**172.1**	163.4	138.9	**194.8**	199.8
Spectrum	5967	None	AC,P5V	109	198.4	16.9	2	973	2	229.7	killed	176.2	156.0	180.0	207.5
FS InVISION	FS 60ZV4	VT3P	AC,P5V	110	198.2	17.2	2	881	16	243.1	158.1	155.2	157.6	180.0	214.6
Dekalb	DKC62-08RIB GC	STX,B	AC,P5V	112	198.0	18.6	2	873	18	249.2	143.6	160.2	109.3	177.7	204.9
Dairyland	DS9212SSX	STX	CM,C2	112	197.7	18.0	13	875	17	207.5	161.8	157.5	156.5	**190.6**	**235.2**
Stone	6274RIB	VT2P,B	AC,P5V	112	197.6	18.2	0	873	19	234.5	151.0	161.6	143.6	**193.0**	201.1
Beck	Phoenix 5832A3^	3000GT	Es	112	195.8	18.7	2	863	25	238.5	116.5	162.0	126.9	181.5	201.0
Pfister	2574RA	STX,B	CM,C2	110	195.7	18.4	1	864	23	231.4	140.9	170.9	155.3	187.5	192.9
Great Heart	HT-950VT3PRIB	VT3P,B	AC,P5	109	195.3	16.9	5	870	20	236.8	162.9	157.4	133.0	172.3	214.5
FS InVISION	FS 62MV4 RIB	VT3P,B	AC,P2,Z	112	194.8	17.6	4	864	24	219.2	158.1	160.5	151.8	189.0	210.6
Stine	9740VT3Pro	VT3P	CM,C2	110	194.6	18.4	0	859	28	221.0	130.0	171.0	136.2	160.2	226.1
Seed Consultants	SCS 10HR94	HX,RR2	MQ,P1V	108	194.5	16.9	0	866	21	234.8	110.2	167.8	131.1	180.0	195.5
AgriGold	A6472VT3Pro	VT3P	AC,P5V	110	194.5	17.2	1	865	22	233.3	129.9	162.0	145.1	186.0	196.5
Channel	209-53STXRIB	STX,B	AC,P5V	109	193.4	17.5	0	858	29	232.1	137.8	160.7	146.0	**197.0**	183.6
Stine	9632SS	STX	CM,C2	107	193.1	16.5	4	862	26	240.2	160.6	155.7	142.1	153.6	223.0
AgriGold	A6408VT3PRIB	VT3P,B	AC,P5V	107	192.7	16.5	2	860	27	233.5	105.6	163.4	135.8	167.3	206.5
FS InVISION	FS 59SX1 RIB	STX,B	AC,P5V,Z	109	192.4	17.3	0	855	30	228.6	164.9	165.9	117.2	174.4	200.6
Pioneer	P1018AMX CK	AMX,B	MQ,P1V	110	189.8	16.7	7	846	36	230.1	146.0	155.5	129.1	165.9	207.6
Test Average =					**193.0**	**17.7**	**3**	**859**		**232.6**	**147.9**	**162.0**	**138.9**	**174.4**	**203.0**
LSD (0.10) =					14.3	0.8	7			18.8	19.1	20.0	ns	16.2	24.8

FULL-SEASON TEST 113-116 Day CRM — **Top 30 of 54 tested**

Wyffels	W7806RIB	VT2P,B	AC,P5V	113	**211.7**	19.6	3	928	1	253.2	140.8	180.7	**197.6**	180.4	**246.6**
FS InVISION	FS 66JV4 RIB	VT3P,B	AC,P2,Z	116	**203.3**	20.0	1	889	3	240.4	135.7	176.7	**179.3**	179.7	**240.6**
Wyffels	W7888RIB	STX,B	AC,P5V	114	203.0	20.4	0	886	4	256.9	154.3	176.6	**178.2**	180.0	223.3
Dyna-Gro	D53VC13	VT2P	AC,P5V	113	196.7	19.4	5	864	5	235.7	126.8	156.6	**180.9**	176.8	233.7
Great Lakes	6530VT3PRIB	VT3P,B	AC,P5V	115	196.4	19.7	6	861	6	248.8	154.3	157.0	**198.5**	157.2	220.7
Steyer	11407VT3PRO RIB	VT3P,B	SStd	114	196.0	19.8	1	858	8	249.7	147.5	167.7	152.7	181.4	228.6
Channel	215-52VT3PRIB	VT3P,B	AC,P5V	115	195.4	19.2	0	859	7	254.4	150.3	154.0	171.3	168.9	228.5
LG Seeds	LG2641VT3PRIB	VT3P,B	AC,P5V	114	194.6	18.9	5	857	9	254.1	153.0	175.6	131.6	178.5	233.1
Wyffels	W8557	VT3P	AC,P5V	115	194.6	20.0	0	851	11	255.0	150.0	180.7	154.3	164.3	218.7
Great Lakes	6354VT3PRIB	VT3P,B	AC,P5V	113	193.9	19.2	2	852	10	257.0	107.2	160.5	144.8	170.9	**236.3**
LG Seeds	LG5618STX	STX	AC,P5V	113	193.6	20.1	0	847	16	252.5	**170.6**	176.0	131.7	175.1	232.7
FS InVISION	FS 65CX1 RIB	STX,B	AC,P5V,Z	115	193.4	20.3	0	845	21	232.3	110.9	161.6	162.9	183.9	226.5
Channel	213-59STXRIB	STX,B	AC,P5V	113	193.1	18.7	3	851	12	234.5	118.9	186.2	152.5	170.9	221.2
Great Lakes	6686VT3PRO	VT3P	AC,P5V	116	193.1	19.6	2	847	17	240.2	144.8	172.4	167.0	155.6	230.2
Beck	Beck 6348A3	3000GT	Es	113	193.1	19.6	9	847	18	224.5	127.1	168.6	**180.1**	168.6	223.6
Steyer	11504VT2PRO RIB	VT2P,B	SStd	114	192.8	19.4	9	846	19	232.5	155.6	176.0	158.0	178.6	218.9
AgriGold	A6533VT3PRIB	VT3P,B	AC,P5V	113	192.8	19.6	6	845	22	229.4	136.9	180.1	151.4	177.1	225.8
AgriGold	A6517VT3PRIB	VT3P,B	AC,P5V	113	192.2	18.9	12	846	20	252.9	111.9	173.1	148.8	165.3	221.1
Stone	6432RIB	VT2P,B	AC,P5V	114	192.1	19.8	2	841	24	249.8	143.4	166.6	175.0	158.8	210.1
Channel	215-82VT3PRIB	VT3P,B	AC,P5V	115	191.9	18.3	2	848	14	243.7	147.5	177.4	140.7	173.1	224.4
Stone	6364RIB	VT2P,B	AC,P5V	113	191.7	19.2	1	843	23	**261.8**	125.2	184.7	138.7	157.7	215.4
Dairyland	DS9314SSX	STX	CM,C2	114	191.5	20.6	2	835	31	235.4	146.1	174.1	145.9	191.9	210.0
Dyna-Gro	D55VP77	VT3P	AC,P5V	115	191.4	19.9	2	838	28	249.5	**158.9**	170.9	146.5	177.5	212.4
NuTech/G2 Gen	5Z-1505	OI	MQ,P1V,R	115	191.0	18.9	1	841	25	220.7	141.2	174.3	152.6	185.6	221.6
Augusta	A5565VT3Pro	VT3P	M,D,P5	114	191.0	19.9	1	836	30	242.2	140.5	164.3	162.3	172.9	213.4
AgriGold	A6559VT2Pro	VT2P	AC,P5V	113	190.2	18.8	3	838	29	243.5	123.4	181.1	139.8	165.0	221.7
NuTech/G2 Gen	5Z-113	OI	MQ,P1V,R	113	190.1	18.3	1	840	26	237.3	135.3	171.4	166.7	179.9	195.1
Steyer	11304GENSS RIB	STX,B	SStd	113	190.1	18.5	2	839	27	234.2	122.5	165.6	139.2	**198.2**	213.4
Steyer	11406	None	SStd	114	186.5	19.3	1	903	2	217.0	killed	181.0	158.0	177.9	198.6
Spectrum	6515	None	CM,C2,St	115	176.2	20.2	10	849	13	192.5	killed	169.0	119.4	169.9	230.3
Pioneer	P1018AMX CK	AMX,B	MQ,P1V	110	190.9	17.3	1	848	15	220.6	132.3	175.4	167.2	176.5	215.0
Test Average =					**187.8**	**19.5**	**4**	**827**		**230.9**	**134.0**	**169.5**	**149.7**	**172.5**	**216.5**
LSD (0.10) =					15.5	0.9	11			29.5	22.2	19.4	26.8	25.4	19.7

= not included in summary, rejected results (Salem early-season test), non-GMOs killed (Du Quoin); ‡ = 2 replications



Corn Stats:
Yield Range: 232.1-274.0 bu. per acre
Yield Average: 252.7 bu. per acre
Top $ Per Acre: $1,249

Corn Field Notes: Indiana Central

Rich Schleuning, FIRST Manager

Greensburg—You could not tell the short hybrids from the tall here; crop height was from 12' to 15' tall with ears over 6' above the ground. This test had great stalk quality and stalks and some leaves were still green. There was disease pressure of rust and leaf blight, but it did not affect grain fill or stalk quality. In 2012, test average yields were 117 bu. per acre in the early-season test and 120 bu. per acre in the full-season test. Wow, at an average of 293.3 bu. per acre, this yield is likely the highest average we have ever had on a test.

Otterbein—This crop uniformly emerged within a week of planting. There was some green snap from a July storm before pollination started. Some products had a high percentage of broken stalks, reducing yield and increasing variability and the least significant difference (LSD) value. Diseases present include diplodia stalk rot, anthracnose, rust, fusarium and aspergillus ear rot. Ear size ranged from 16 to 20 kernels around and from 30 to 38 kernels long. Some ears were half-exposed, as husks had opened up, while others remained fully enclosed. A full-season test replication was lost to a combine that strayed into our test.

Perrysville—This crop got off to a good start with excellent emergence and early vigor. It was able to reach full maturity since grain moistures were dry for this season. Grain quality was good with a bright color. Lodging scores were light, as only the plant tops broke off. This was the first location in this region that did not have green plants.

Spiceland—We started planting on May 17 and finished May 25 due to a sudden storm. The later-planted corn had grain moisture levels one to two points higher than the corn that had been planted earlier, and they were also still green, with more disease pressure and poorer stalk quality; the early-season test had better plant health and stalk quality. Grain color varied from dull to bright yellow. Disease pressure included corn leaf blight, anthracnose and rust. The replication containing the late planting was removed.

Windfall—This crop showed good early vigor, as it was out of the ground within five days. This was helpful for utilizing all the rain this area received in July. Some water sat on the test, setting the crop behind in ponded areas. Stunted plants did catch up but that caused grain moistures to be variable. The crop was standing nicely at harvest; most early-test ears were still upright and late-test ears were mostly hanging down. Diseases present included anthracnose, stalk rot, rust and corn leaf blight. Some light insect feeding was noticed on the ear tip.

Wingate—There were two planting dates here. We started on May 9 with good conditions; then, due to weather, we finished planting on May 16. Moisture levels varied across the test, as did yield. Diseases present were anthracnose, corn leaf blight and low amounts of gray leaf spot. As subsoil changed, so did the crop yield. Ear development was good with no ear-tip dieback; ears also had shallow kernel depth and were easy to shell.

Site Information						2013 Rainfall (inches)					
Indiana Central						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Greensburg*	clay loam	minimum	soybean	339	5/18	4.04	3.67	2.39	2.24	-1.57	-1.70
Otterbein	silt loam	minimum	soybean	185	5/8	4.60	6.31	2.51	1.97	-1.69	-1.64
Perrysville	silty clay loam	minimum	soybean	147	5/15	3.93	5.03	5.59	1.32	1.00	-2.07
Spiceland	silt loam	no-till	soybean	210	5/17	4.45	4.31	2.87	1.52	-1.68	-1.73
Windfall*	silty clay loam	conventional	soybean	149	5/17	5.46	7.77	2.69	3.12	-1.63	-0.45
Wingate	silty clay loam	no-till	soybean	186	5/16	3.56	4.75	3.87	1.59	-0.61	-1.96

Rainfall obtained on-site (* denoted) or estimated from *www.weatherplot.com.* Rainfall Normals (1981-2010) from National Climatic Data Center.

FIRST Indiana Central Corn Results

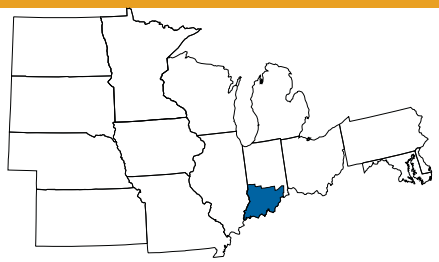
EARLY-SEASON TEST 105-110 Day CRM — **Top 30 of 54 tested**

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Greensburg	Otterbein‡	Perrysville	Spiceland‡	Windfall	Wingate
Great Heart	HT-7150VT3P	VT3P	AC,P5	111	**274.0**	20.6	0	1,236	2	303.7	250.0	**261.3**	301.7	**270.9**	256.3
Dairyland	DS9306	3000GT	CM,C2	106	**271.3**	16.8	0	1,249	1	307.0	249.2	**265.0**	293.3	255.8	257.3
Augusta	A5658GTCBLL	GT/CB/LL	CE,C2	108	**271.0**	20.1	0	1,226	4	**323.8**	247.0	252.1	290.4	**273.3**	239.6
FS InVISION	FS 60ZV4	VT3P	AC,P5V	110	**270.4**	19.3	0	1,228	3	**328.6**	235.6	232.4	**333.1**	242.2	250.2
Specialty	4611GENVT3PRIB	VT3P,B	AC,P5V	110	**269.8**	20.0	1	1,221	5	293.7	243.8	**257.6**	**325.2**	249.6	248.6
NuTech	5B-410	GT/CB/LL	MQ,C2	110	**268.9**	19.6	1	1,219	7	315.8	232.5	248.8	312.3	247.6	256.5
Augusta	A4658GT3110	3110	CE,C2	108	267.4	20.3	0	1,208	8	310.9	249.6	**262.7**	293.6	246.4	240.9
Ebberts	9488SSX	STX	AC,P5	108	265.6	19.0	0	1,208	9	296.7	243.5	245.8	292.2	261.5	254.0
Dairyland	DS9610	3000GT	CM,C2	110	265.5	19.9	1	1,202	12	307.0	239.1	246.0	290.0	253.0	**258.1**
Stine	R9632SS	STX,B	CM,C2	107	264.5	18.8	0	1,205	10	296.8	237.2	253.7	288.3	258.7	252.0
Ebberts	7909VT3P	VT3P	AC,P5	108	264.1	19.2	0	1,200	13	311.5	251.2	236.8	277.3	261.8	245.9
NuTech/G2 Gen	5Z-709	OI	MQ,P1V,R	109	264.0	18.8	0	1,203	11	309.9	240.4	240.0	306.4	236.3	251.1
AgriGold	A6472VT3Pro	VT3P	AC,P5V	110	264.0	20.1	0	1,194	14	286.0	247.9	241.9	305.1	248.5	254.7
Ebberts	7109VT3P	VT3P	AC,P5	108	262.7	19.2	0	1,194	15	298.9	248.2	236.5	312.4	240.8	239.5
Dyna-Gro	CX50VP43	VT3P	AC,P5V	110	262.7	19.4	0	1,193	16	301.3	250.6	237.2	284.6	257.2	245.4
NuTech/G2 Gen	5Z-109	OI	MQ,P1V,R	109	262.3	19.4	0	1,191	19	294.8	227.4	**258.1**	298.4	**264.8**	230.3
Steyer	10703GENSS RIB	STX,B	SStd	107	261.5	18.5	0	1,193	17	283.1	235.6	256.4	296.7	256.5	240.8
Stewart	7A747RIB	STX,B	AC,P5V	110	261.2	18.4	1	1,192	18	288.1	243.7	234.4	307.3	254.5	239.1
Great Lakes	6087VT3PRIB	VT3P,B	AC,P5V	110	260.0	18.5	0	1,186	20	292.2	242.9	252.6	284.4	248.3	239.6
Great Lakes	5939VT3PRIB	VT3P,B	AC,P5V	109	259.9	18.7	0	1,184	21	284.1	233.3	250.8	291.9	243.4	255.8
FS InVISION	FS 59SX1 RIB	STX,B	AC,P5V,Z	109	258.8	19.8	0	1,172	28	298.1	229.5	234.1	293.9	240.2	256.7
Dyna-Gro	CX48VP76	VT3P	AC,P5V	108	258.6	17.9	0	1,184	22	299.7	239.7	243.2	287.6	244.0	237.2
LG Seeds	LG5528VT3P	VT3P	AC,P5V	105	258.0	19.0	0	1,174	26	282.2	253.1	244.9	274.0	246.4	247.5
Great Heart	HT-950VT3PRIB	VT3P,B	AC,P5	109	257.8	18.9	0	1,174	27	312.9	239.9	239.6	293.7	226.8	234.0
LG Seeds	LG5533VT3P	VT3P	AC,P5V	107	257.4	18.2	0	1,176	25	297.9	235.7	246.6	279.9	249.3	235.1
FS InVISION	FS 55ZV4 RIB	VT3P,B	AC,P2,Z	105	257.3	17.2	1	1,182	23	292.0	247.2	242.2	286.1	246.9	229.3
Stewart	6V556RIB	VT3P,B	AC,P5V	107	256.5	17.5	1	1,177	24	303.8	**256.9**	245.4	271.4	223.3	238.3
NK Brand	N60F-3111	3111	AVC,C5	107	256.0	18.8	0	1,166	29	298.9	228.2	224.1	305.9	247.5	231.2
Great Lakes	5525VT3PRO	VT3P	AC,P5V	105	256.0	18.9	0	1,165	30	289.8	**257.6**	231.5	271.2	238.2	247.4
LG Seeds	LG2575VT3PRIB	VT3P,B	AC,P5V	110	255.2	19.2	0	1,160	31	280.7	249.7	233.9	291.7	250.0	225.0
Great Heart	HT-7240VT3PRIB CK	VT3P,B	AC,P5	112	**270.2**	20.5	0	1,219	6	297.9	244.1	**257.7**	312.9	257.6	251.0
Test Average =					**256.6**	**18.9**	**0**	**1,168**		**293.5**	**236.1**	**241.3**	**287.6**	**242.9**	**238.0**
LSD (0.10) =					11.8	0.7	ns			22.9	17.8	15.8	28.9	20.8	19.7

FULL-SEASON TEST 111-114 Day CRM — **Top 30 of 63 tested**

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Greensburg	Otterbein‡	Perrysville	Spiceland‡	Windfall	Wingate
Dyna-Gro	CX53VP22	VT3P	AC,P5V	113	**264.8**	20.1	0	1,198	1	297.0	251.7	253.9	262.1	**259.9**	**264.1**
Specialty	42V843	VT3P,B	AC,P5V	112	**264.5**	22.5	0	1,180	3	**319.0**	247.3	260.7	282.0	224.1	254.0
Dyna-Gro	D52SS91RIB	STX,B	AC,P5V	112	**263.0**	22.4	0	1,174	5	**312.4**	236.6	256.6	275.5	238.2	**258.5**
Unity	5512SS-RIB	STX,B	AC,P2V	112	**262.5**	22.0	1	1,175	4	**310.8**	227.5	267.3	270.2	**251.5**	247.8
Ebberts	9451SSX	STX	AC,P5	111	**262.2**	20.5	0	1,183	2	306.0	249.0	253.7	275.6	237.4	251.2
AgriGold	A6499STX	STX	AC,P5V	112	260.9	22.8	0	1,162	6	298.7	220.4	262.7	283.5	250.7	249.5
LG Seeds	LG5618STX	STX	AC,P5V	113	259.8	22.9	0	1,157	10	302.9	239.6	**269.2**	286.0	215.6	245.6
Channel	213-59STXRIB	STX,B	AC,P5V	113	259.7	22.3	0	1,160	7	296.5	232.7	**277.5**	271.3	240.1	240.3
FS InVISION	FS 62MV4 RIB	VT3P,B	AC,P2,Z	112	256.8	20.4	0	1,159	8	287.6	219.2	267.1	271.7	**251.4**	243.5
Unity	7811-3000GT	3000GT	CM,C2	111	256.4	20.6	0	1,156	11	287.9	232.8	257.8	277.2	234.7	248.2
Steyer	11407VT3PRO RIB	VT3P,B	SStd	114	256.3	22.3	0	1,145	13	296.3	213.9	242.7	**294.7**	**262.1**	227.8
Steyer	11208VT3PRO RIB	VT3P,B	SStd	112	256.0	19.9	0	1,159	9	278.2	231.5	249.6	268.4	**259.1**	249.0
Seed Consultants	SC 11AQ43	3000GT	MQ,P1V	114	255.8	23.9	0	1,133	20	304.5	222.3	262.8	261.7	246.0	237.5
Seed Consultants	SC 11AQ03	3000GT	MQ,P1V	110	255.3	20.3	1	1,153	12	280.5	239.3	266.4	282.3	218.7	244.5
Unity	5514SS	STX	AC,P2V	114	255.2	23.7	0	1,131	22	297.2	212.6	265.6	277.2	220.4	**258.2**
Golden Harvest	G12J11-3011A	3011A	AVC,C5	112	254.7	21.2	0	1,145	14	294.2	228.7	253.8	276.1	229.9	245.6
Steyer	11304GENSS RIB	STX,B	SStd	113	254.4	20.9	0	1,145	15	296.7	224.7	265.6	263.8	243.0	232.7
Stewart	7A837RIB	STX,B	AC,P5V	111	254.0	21.1	0	1,142	16	277.8	250.2	248.1	276.2	220.6	250.8
Channel	212-86STXRIB	STX,B	AC,P5V	112	252.7	20.7	0	1,139	17	293.2	209.8	245.2	279.0	**258.7**	230.2
NuTech/G2 Gen	5F-811AM	AM,B	MQ,C2	111	252.6	20.6	0	1,139	18	285.3	237.0	266.5	274.6	235.1	216.8
AgriGold	A6517VT3PRIB	VT3P,B	AC,P5V	113	251.5	20.0	0	1,138	19	297.7	249.7	231.4	241.7	245.9	242.4
Golden Harvest	G13G41-3000GT	3000GT	AVC,C5	113	251.1	21.6	0	1,126	23	284.0	216.9	245.0	270.8	248.0	242.0
Doeblers	698GRQ	3000GT	MQ,C2	114	250.6	23.0	0	1,115	30	296.8	236.1	240.3	255.0	240.9	234.6
Specialty	41A743	STX,B	AC,P5V	111	250.1	21.2	0	1,124	25	293.7	232.6	255.1	271.9	199.7	247.7
Ebberts	7712VT3P	VT3P	AC,P5	112	250.1	22.4	3	1,117	26	291.5	186.9	255.1	282.7	236.8	247.4
AgriGold	A6573VT3PRIB	VT3P,B	AC,P5V	114	249.3	22.0	0	1,116	28	295.7	232.6	248.9	261.9	222.7	234.2
Great Lakes	6232VT3PRIB	VT3P,B	AC,P5V	112	249.0	20.2	0	1,125	24	299.4	213.2	258.8	246.2	233.6	242.9
Steyer	11103GENSS RIB	STX,B	SStd	111	248.5	21.3	0	1,116	29	299.7	229.4	236.8	279.1	218.2	227.9
Ebberts	6411VT2P	VT2P	AC,P5	111	248.0	21.1	0	1,115	31	287.4	211.4	245.4	271.6	239.2	232.7
LG Seeds	LG2602VT3PRIB	VT3P,B	AC,P5V	112	247.4	20.4	0	1,117	27	282.8	222.2	252.2	283.3	220.1	223.8
Great Heart	HT-7240VT3PRIB CK	VT3P,B	AC,P5	112	251.8	21.0	0	1,133	21	**310.6**	248.0	246.1	266.9	212.3	226.6
Test Average =					**248.7**	**21.6**	**0**	**1,115**		**289.8**	**221.8**	**251.0**	**265.7**	**228.2**	**235.8**
LSD (0.10) =					12.9	1.0	ns			19.3	31.6	17.0	26.0	23.1	19.9

‡ = 2 replications, Spiceland early- and full-season tests, Otterbein full-season test



Corn Stats:
Yield Range: 192.2-236.6 bu. per acre
Yield Average: 213.9 bu. per acre
Top $ Per Acre: $1,075

Corn Field Notes: Indiana South

Rich Schleuning, FIRST Manager

Carlisle—When we were finally able to plant this location, the weather conditions were far from ideal but were the best available. Two days after planting, the site received more than 3" of rain. The back half of the full-season test was lost by the second week of June. When the rains came in, it was mostly 2" to 5" per event. All tests here were lost to ponding that made it impossible to get two complete replications.

Columbus—Planting conditions at this site were okay but far from ideal. A heavy rain just missed us after planting. Yields in the area were better than expected, considering the conditions. At harvest, the early-season test hybrids had most ears hanging down with good retention, but the full-season hybrids had only 50% of ears hanging down. A difference in standability was noticed between the tests. It is interesting that the difference in average yield between early- and full-season tests in northern Indiana was minor. As we moved south, full-season products had higher average yield.

Elnora—The planting date here was later than normal due to wet spring conditions. The planting window was good for emergence and early vigor. We were able to get weed pressure cleaned up; then dry conditions set in. Plant height was shorter than normal. Ear size varied from 12 to 16 kernel rows around and 22 to 36 kernels long with some ear-tip dieback. Stalk quality looked good, but a pinch test showed that stalks were weak and hollow.

Folsomville—A late planting date had good emergence, which came within seven days of planting. Pollination missed the hot, dry conditions. Plant health was good with low disease pressure. Plant height ranged from 7' to 12' tall with good ear retention and grain quality. At harvest, stalks still had moisture and some were still green. Ear size was small but there were a lot of ears with the high plant population.

Grammer—We planted in less-than-ideal conditions because more rainfall and the prevented planting date were nearing. Poor planting conditions and ponding from the heavy rains that followed caused sporadic stands. Ears had light tip dieback and kernels that aborted after pollination. Some plots where ponding had occurred had plants with tops off, no leaves and brittle stalks at harvest. Diseases present included rust, anthracnose, corn leaf blight and light fusarium ear rot. The fusarium was only seen on a few kernels when the husks were peeled back.

Huntingburg—These were not the best soil conditions to plant into but we were pushing the prevented planting date and impending rain. The soil type and weather conditions made emergence difficult, which led to uneven final stand. Ear and kernel size varied across the tests. As the plant population changed, the ear kernel count ranged from 12 to 16 around and 28 to 44 long. Overall, plant health was good with low disease pressure. There was some late-season weed pressure that also played a role in grain fill, as an aerial herbicide application was made.

Site Information						2013 Rainfall (inches)					
Indiana South						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Carlisle	sandy loam	conventional	soybean	198	5/27	5.48	10.39	3.97	2.47	-0.77	-0.84
Columbus	clay loam	no-till	soybean	136	5/18	3.96	4.56	2.35	2.50	-1.72	-1.04
Elnora	sandy clay	no-till	soybean	274	5/27	6.95	7.85	3.20	1.26	-1.54	-2.05
Folsomville	silty clay loam	conventional	corn, 2+ yr	229	5/26	4.48	6.02	5.90	3.21	1.54	-0.04
Grammer	clay loam	minimum	soybean	209	5/24	4.55	4.28	2.05	2.63	-2.02	-0.91
Huntingburg	clay loam	no-till	wheat	144	5/27	4.51	4.84	3.66	2.74	-0.66	-0.53

Rainfall obtained on-site (* denoted) or estimated from *www.weatherplot.com.* Rainfall Normals (1981-2010) from National Climatic Data Center.

FIRST Indiana South Corn Results

EARLY-SEASON TEST 107-112 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	Carlisle	Columbus	Elnora	Folsomville	Grammer‡	Huntingburg
Pfister	2672RA	STX,B	CM,C2	112	222.5	19.1	0	1,012	2		247.6	185.5	260.2	207.6	**211.8**
LG Seeds	LG2575VT3PRIB	VT3P,B	AC,P5V	110	221.3	17.6	0	1,015	1		251.1	197.6	273.8	214.4	169.4
Augusta	A5658GTCBLL	GT/CB/LL	CE,C2	108	220.3	17.3	0	1,012	3		249.0	192.6	280.0	217.5	162.2
Stewart	7E743RIB	VT2P,B	AC,P5V	110	218.5	17.3	0	1,003	4		246.4	201.1	275.5	195.0	174.4
Pfister	2574RA	STX,B	CM,C2	110	217.8	19.0	0	991	8		241.1	204.1	243.9	225.0	174.8
Great Lakes	5939VT3PRIB	VT3P,B	AC,P5V	109	217.7	17.1	0	1,001	5		219.8	199.7	281.0	225.4	162.7
FS InVISION	FS 60ZV4	VT3P	AC,P5V	110	217.3	17.7	0	996	6		235.8	200.7	**294.9**	195.8	159.5
Partners Brand	PB 8132-3000GT	3000GT	CM,C2	111	217.1	18.3	0	992	7		241.8	195.0	268.1	201.3	179.1
Pfister	2595RA	STX,B	CM,C2	111	216.6	19.2	0	984	10		**252.7**	190.3	271.1	213.9	155.0
Steyer	11208VT3PRO RIB	VT3P,B	SStd	112	216.4	18.4	0	988	9		241.1	191.6	268.8	206.1	174.4
Golden Harvest	G12J11-3011A	3011A	AVC,C5	112	214.5	18.2	0	980	11		234.0	186.3	260.9	216.4	175.1
Dyna-Gro	D52VC91	VT2P	AC,P5V	112	214.3	18.7	0	977	12		**251.6**	182.0	268.2	213.7	155.9
Stine	R9632SS	STX,B	CM,C2	107	211.8	17.3	0	973	13		210.7	193.7	263.1	215.6	175.9
LG Seeds	LG5607VT3P	VT3P	AC,P5V	111	211.2	18.2	0	965	14		210.8	187.5	**284.7**	**229.7**	143.4
FS InVISION	FS 59SX1 RIB	STX,B	AC,P5V,Z	109	210.9	17.9	0	965	15		225.6	182.7	251.2	212.1	182.8
Partners Brand	PB 8242VIP3111 GC	3111	CM,C2	112	210.8	18.5	0	962	16		221.3	176.6	265.3	207.4	183.3
Seed Consultants	SCS 1094AM-R	AM-R,B	MQ,P1V	109	209.2	17.4	0	960	17		224.9	185.8	260.1	181.4	**193.8**
FS InVISION	FS 61JX1	STX	AC,P5V	111	209.1	19.0	0	951	19		237.4	188.4	256.8	198.9	164.1
Seed Consultants	SCS 11HR12	HX,RR2	MQ,P1V	111	209.0	18.7	0	953	18		208.2	196.5	238.0	219.4	183.1
Steyer	11103GENSS RIB	STX,B	SStd	111	207.6	19.1	0	944	22		239.4	179.8	256.9	194.4	167.4
Great Lakes	6232VT3PRIB	VT3P,B	AC,P5V	112	207.3	18.1	0	948	20		212.4	194.9	281.8	192.7	154.7
Seed Consultants	SC 11AQ03	3000GT	MQ,P1V	110	207.3	18.2	0	947	21		241.4	150.1	260.6	191.6	**192.6**
Augusta	A4658GT3110	3110	CE,C2	108	203.4	17.7	0	932	24		220.6	178.9	247.5	197.5	172.4
Stewart	7A837RIB	STX,B	AC,P5V	111	202.9	18.8	0	924	25		231.6	196.7	264.4	169.0	152.7
Pfister	2674RA	STX,B	CM,C2	112	201.8	18.7	0	920	27		237.6	169.7	249.6	187.5	164.8
Great Lakes	6087VT3PRIB	VT3P,B	AC,P5V	110	201.2	17.8	0	921	26		212.9	186.5	244.9	218.1	143.8
Seed Consultants	SCS 1093AAHQ	OT	MQ,P1V	109	201.1	18.1	0	920	28		227.6	145.4	268.7	192.2	171.8
Steyer	11004GENSS RIB	STX,B	SStd	110	200.6	17.6	0	920	29		207.9	160.0	264.7	213.9	156.7
LG Seeds	LG2602VT3PRIB	VT3P,B	AC,P5V	112	200.0	18.6	0	912	30		211.7	166.7	263.3	203.1	155.0
FS InVISION	FS 57QX1 RIB	STX,B	AC,P5V,Z	107	198.2	17.2	1	911	31		221.7	169.7	259.1	187.0	153.5
Pioneer	P1221AMXT CK	AMXT,B	MQ,P1V	112	204.0	18.3	0	932	23		209.9	185.2	265.0	207.3	152.7
Test Average =					**208.2**	**18.2**	**0**	**952**			**226.6**	**185.0**	**260.9**	**203.1**	**165.4**
LSD (0.10) =					14.7	0.7	ns				24.7	24.8	22.0	23.4	26.3

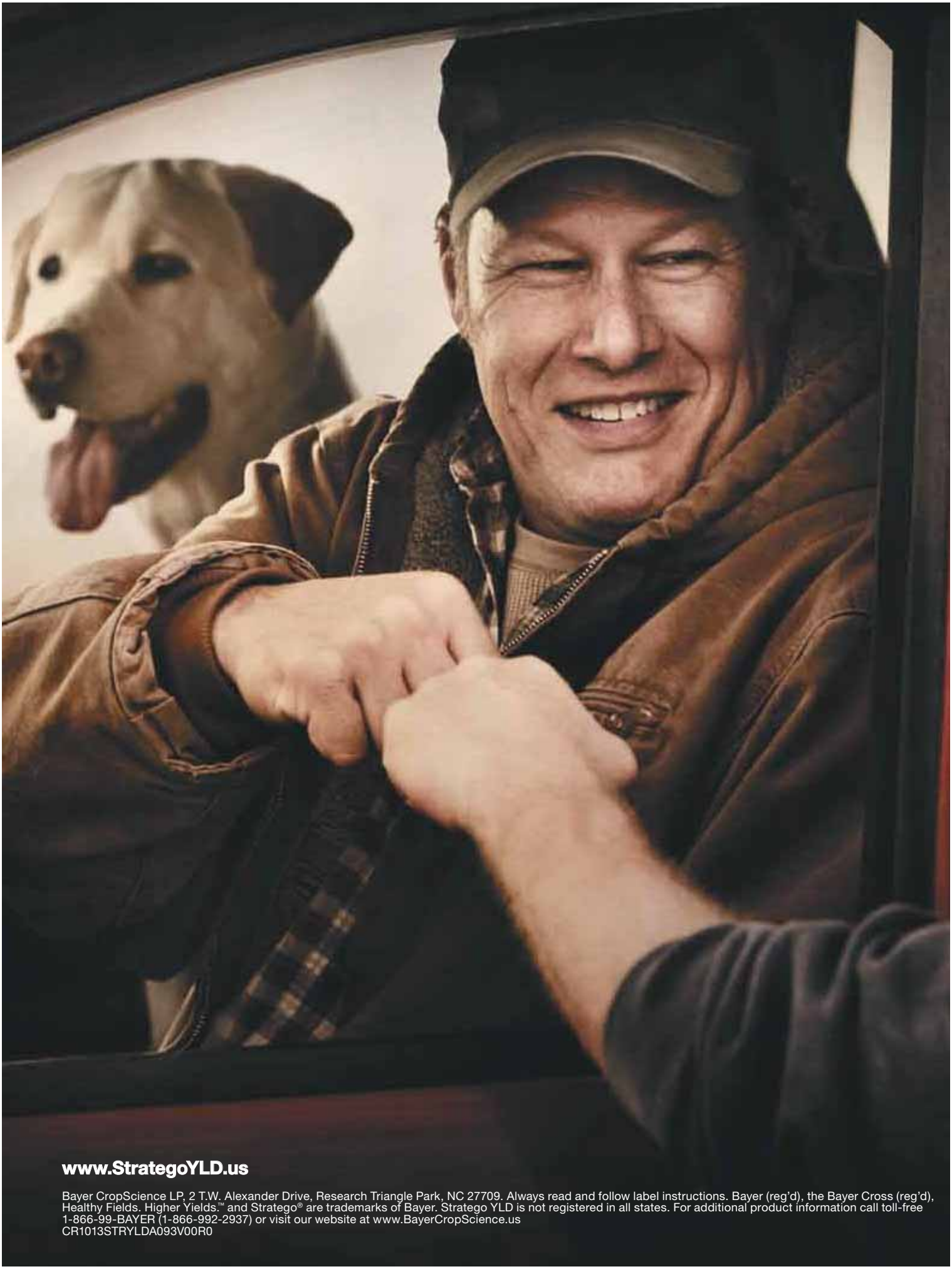
Test was lost due to water ponding issues

FULL-SEASON TEST 113-116 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	Carlisle	Columbus	Elnora	Folsomville	Grammer‡	Huntingburg
Channel	215-52VT3PRIB	VT3P,B	AC,P5V	115	**236.6**	19.3	0	1,075	1		278.0	187.0	281.7	236.2	200.3
Steyer	11407VT3PRO RIB	VT3P,B	SStd	114	**236.6**	20.2	0	1,069	2		279.0	179.4	266.2	**259.5**	198.7
Stewart	8V623RIB	VT3P,B	AC,P5V	112	**235.6**	19.8	0	1,067	3		275.3	**208.1**	266.3	225.7	202.8
Steyer	11504VT2PRO RIB	VT2P,B	SStd	114	233.0	19.3	0	1,058	4		256.3	**207.6**	272.7	233.8	194.4
BioGene	BG 860V2	VT2P,B	AC,P5V	116	231.5	21.9	0	1,037	7		269.6	**206.2**	266.8	229.7	185.2
Golden Harvest	G16K01-3111	3111	AVC,C5	113	231.1	21.4	0	1,038	6		217.2	**208.9**	272.7	243.3	**213.2**
FS InVISION	FS 66JV4 RIB	VT3P,B	AC,P2,Z	116	230.7	20.4	0	1,042	5		255.2	**204.6**	259.1	232.6	201.9
NuTech/G2 Gen	5H-216	HX,RR2	MQ,P1V,R	116	228.7	20.8	0	1,030	8		262.6	163.8	275.7	238.3	202.9
Partners Brand	PB 8333-3000GT	3000GT	AC,P2	113	228.4	20.7	0	1,030	9		250.5	184.1	**283.3**	232.4	191.5
Pfister	2770RA	STX,B	CM,C2	113	227.2	21.0	0	1,022	12		255.8	199.7	267.3	238.7	174.5
NuTech/G2 Gen	3F-515AM	AM-R,B	MQ,C2	115	225.6	19.6	0	1,023	11		269.2	181.4	269.6	225.6	182.1
Stewart	8E663RIB	VT2P,B	AC,P5V	113	225.0	20.1	0	1,018	13		218.4	190.0	276.2	238.1	202.5
FS InVISION	FS 65CX1 RIB	STX,B	AC,P5V,Z	115	224.5	20.3	1	1,014	15		262.3	190.6	266.6	237.7	165.1
Dekalb	DKC63-33RIB GC	STX,B	AC,P5V	113	224.2	18.2	0	1,025	10		236.0	196.2	274.8	222.5	191.4
Seed Consultants	SC 11AQ72	3000GT	MQ,P1V	116	223.7	21.9	1	1,002	19		260.7	196.3	274.3	192.9	194.5
LG Seeds	LG5701VT3P	VT3P	AC,P5V	116	222.8	18.7	0	1,015	14		256.1	174.7	279.2	225.8	178.3
LG Seeds	LG2636VT3PRIB	VT3P,B	AC,P5V	114	222.2	19.1	1	1,010	17		266.2	178.9	261.1	238.6	166.0
Partners Brand	PB 8447GT GC	GT	CM,C2	114	222.0	20.2	1	1,003	18		265.8	173.3	**289.9**	188.9	192.2
Channel	214-14VT3PRIB	VT3P,B	AC,P5V	114	221.9	18.8	0	1,011	16		271.1	188.0	262.4	211.8	176.1
BioGene	BG 832V2	VT2P,B	AC,P5V	113	221.6	20.3	0	1,001	20		247.6	187.3	273.7	220.9	178.5
Stewart	8E753RIB	VT2P,B	AC,P5V	114	221.0	20.4	0	998	21		242.5	183.0	275.2	226.8	177.6
Steyer	11406GENSS RIB	STX,B	SStd	114	220.6	20.9	0	993	22		270.2	165.0	265.6	238.0	164.1
Seed Consultants	SC 11AQ43	3000GT	MQ,P1V	114	220.1	21.1	0	990	24		243.6	178.2	256.2	231.7	190.6
Pfister	3488HR	HX,RR2	CM,C2	115	219.0	21.6	0	982	28		262.2	193.1	262.6	175.2	201.8
Augusta	A4564GENSS	STX	M,D,P5	114	217.9	21.6	0	977	29		258.1	172.5	272.8	207.9	178.2
BioGene	BG 850V2	VT2P,B	AC,P5V	114	217.5	19.0	0	990	25		245.5	190.8	242.4	227.1	181.8
Channel	215-82VT3PRIB	VT3P,B	AC,P5V	115	217.0	18.3	0	991	23		256.7	176.6	252.3	224.7	174.6
Dyna-Gro	D53VC13	VT2P	AC,P5V	113	217.0	18.9	0	988	27		263.0	167.0	252.2	219.1	183.5
Golden Harvest	G10S30-3110 GC	3110	AC,P5V	110	216.8	18.6	0	989	26		277.5	156.2	251.2	237.5	161.7
Steyer	11304GENSS RIB	STX,B	SStd	113	213.4	18.8	0	972	30		235.5	169.8	258.1	222.2	181.5
Pioneer	P1221AMXT CK	AMXT,B	MQ,P1V	112	205.6	18.6	0	938	41		242.4	154.0	239.7	204.7	187.1
Test Average =					**219.5**	**19.9**	**0**	**994**			**251.3**	**181.2**	**264.6**	**217.7**	**182.5**
LSD (0.10) =					14.9	0.7	ns				31.3	21.0	18.1	28.2	26.2

Test was lost due to water ponding issues

‡ = 2 replications, early-season test



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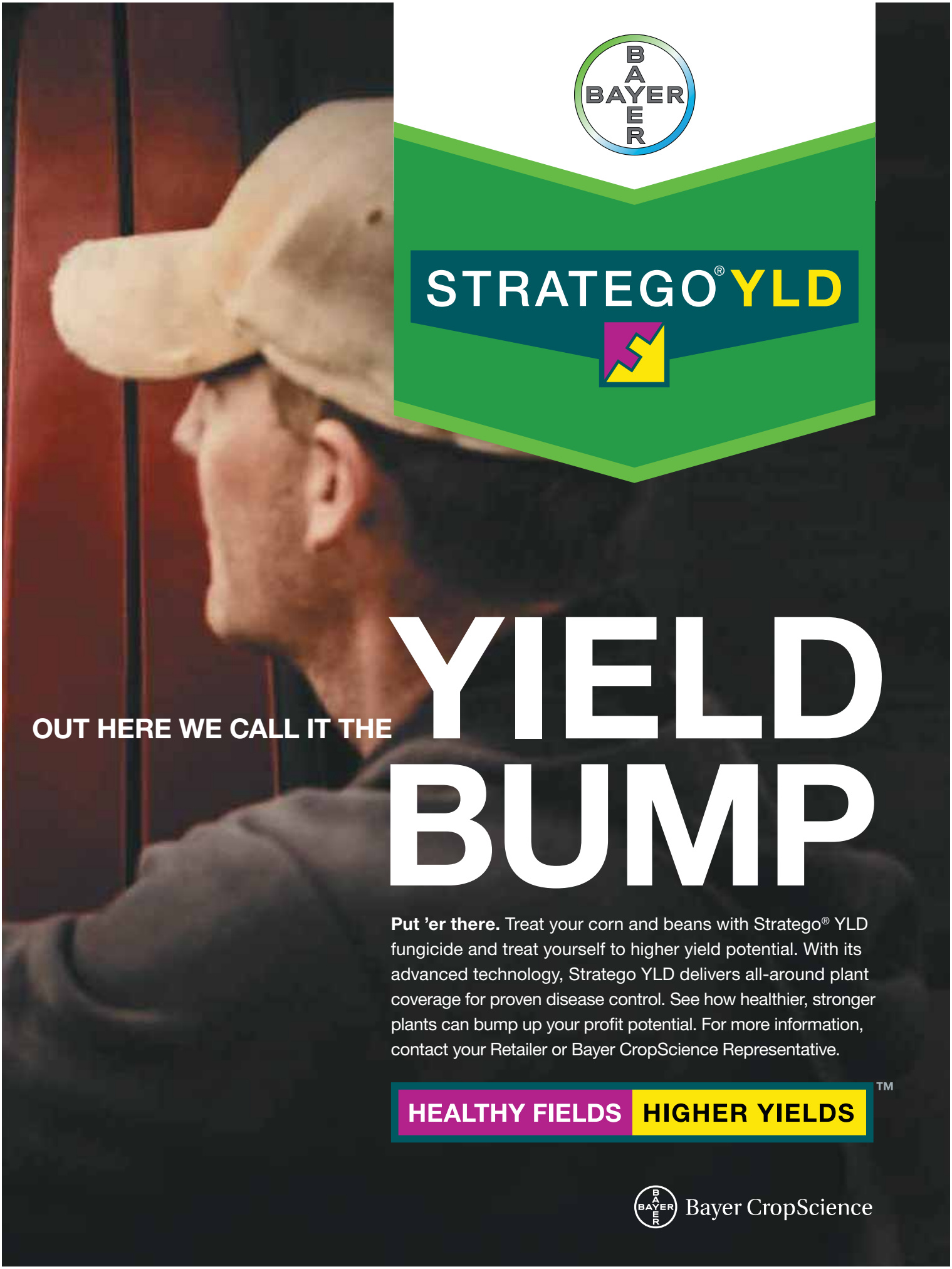
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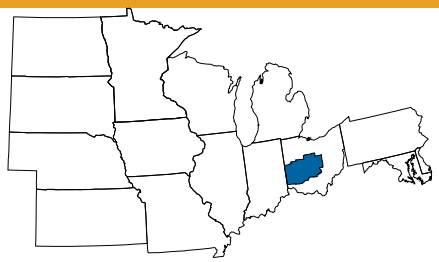


Corn Stats:
Yield Range: 178.6-208.9 bu. per acre
Yield Average: 190.5 bu. per acre
Top $ Per Acre: $928

Corn Field Notes: Ohio West Central

Rich Schleuning, FIRST Manager

Caledonia—The soil type varied here so much that each test was placed on a different one. The early-season and full-season tests were placed on sandy loam and clay loam soils, respectively. The sandy loam soil drained better in this wet season, resulting in better plant health, kernel size, kernel set and corn yield. The poorly drained clay loam soil had more ponding. Corn disease (anthracnose and corn leaf blight) was more prevalent on this soil along with weaker corn stalks and more yield variation. Overall corn ear size ranged from 14 to 18 kernels around and up to 48 kernels long.

Celina—This crop had uniform emergence with good stands. Extensive soil moisture helped the crop but also hurt it, as nitrogen (N) loss was very apparent. Light amounts of anthracnose, rust and corn leaf blight were present. The crop stood nicely with only light lodging. Ear size ranged from 14 to 16 kernels around and 28 to 36 kernels per row. Area bushels per acre were in the mid-160s and varied by location.

Dunkirk—The field surrounding our test was planted two weeks earlier than the test and averaged 180 bu. per acre. With all the rain this season, herbicide residual control weakened, which allowed late-season grass throughout the test. Final stand was sporadic due to the weather conditions this season. Some hybrids with flex ear traits developed large ears under the conditions at this location. The crop stood well and had light disease pressure from anthracnose, eyespot and rust.

Lewistown—This location had an even emergence. Standability was good at harvest with light plant disease present and very little lodging. The lake-bed soil was able to absorb this season's rain. This soil type did make for some variability. Sandbars showed during dry conditions. FIRST farmer member Rich Kinney commented that record yields have been recorded in the area this year. This test produced an average of 216.4 bu. per acre in the early-season test followed by an increase to 230.6 bu. per acre in the full-season test.

Venedocia—A nice strong uniform emergence and low stress made for a nice crop at the Venedocia trial test plot. No disease was present and standability was excellent. This area had ample rain all season. FIRST farmer member Bill Evans said yields were remarkably high and in fact were the best he has ever seen. Area yields were in the range of 230+ bu. per acre. Bill also noted that pollination temperatures were in the 80s with nighttime weather cooling off, and that helped make this crop.

Versailles—With a later-than-normal planting date of May 20, this crop was pollinating during the dry spell in August. This hurt the full yield potential and caused short ear length and light kernel set. The crop was standing nicely at harvest with light disease pressure. With an overabundance of rain this spring and early summer, there was some N loss, which was evident in plant appearance and likely impacted final yield.

Site Information						2013 Rainfall (inches)					
Ohio West Central						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Caledonia*	loam	no-till	soybean	180	5/20	3.00	6.00	1.00	2.00	-3.27	-1.02
Celina*	sandy clay loam	minimum	soybean	206	5/16	4.00	4.00	2.00	2.00	-2.81	-1.55
Dunkirk*	sandy loam	no-till	soybean	220	5/17	2.00	4.00	3.00	1.00	-0.70	-2.31
Lewistown*	sandy clay loam	no-till	soybean	210	5/17	3.00	5.00	4.00	1.00	-0.67	-2.50
Venedocia*	loam	strip-till	soybean	210	5/14	2.00	4.00	2.00	3.00	-2.35	-0.72
Versailles*	sandy clay loam	conventional	wheat	180	5/20	1.00	8.00	6.00	1.60	1.59	-1.72

Rainfall obtained on-site (* denoted) or estimated from *www.weatherplot.com.* Rainfall Normals (1981-2010) from National Climatic Data Center.

FIRST Ohio West Central Corn Results

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

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Caledonia‡	Celina‡	Dunkirk	Lewistown	Venedocia	Versailles
Steyer	11004GENSS RIB	STX,B	SStd	110	200.3	22.3	1	895	1	227.6	163.7	159.9	**252.6**	234.2	**163.5**
Augusta	A5658GTCBLL	GT/CB/LL	CE,C2	108	199.0	22.1	1	890	2	247.4	165.2	164.7	225.0	234.7	157.1
NuTech/G2 Gen	5Z-709	OI	MQ,P1V,R	109	198.7	22.5	1	887	3	250.7	157.0	170.5	227.2	230.9	155.7
LG Seeds	LG2549VT3PRIB	VT3P,B	AC,P5V	109	198.4	22.1	1	887	4	246.4	160.8	**189.5**	216.2	231.8	145.4
Ebberts	7109VT3P	VT3P	AC,P5	108	198.4	22.3	1	886	6	255.2	159.0	160.6	208.3	247.1	160.0
LG Seeds	LG5533VT3P	VT3P	AC,P5V	107	198.3	22.1	1	887	5	240.3	151.9	**182.3**	230.6	233.0	151.6
Buckeye	RR8788SSRIB	STX,B	AC,P2	107	198.0	22.1	1	886	7	234.1	156.6	177.3	232.1	241.8	146.2
Buckeye	RR9171VT3PRIB	VT3P,B	AC,P2	110	198.0	22.4	1	884	8	244.4	154.7	172.6	225.0	239.6	151.7
Augusta	A4658GT3110	3110	CE,C2	108	197.5	22.5	1	881	9	253.6	150.8	159.7	209.3	248.8	**162.8**
Dekalb	DKC57-75RIB	STX,B	AC,P5V	107	196.0	22.1	1	877	11	244.3	157.2	165.4	226.2	231.7	151.1
NuTech/G2 Gen	5F-008AM	AM,B	MQ,C2	108	196.0	22.5	1	875	13	250.3	145.5	**182.7**	225.7	217.1	154.8
Rupp	xrJ07-20	STX,B	AC,P2	107	195.9	22.2	1	876	12	241.3	155.0	161.7	229.8	232.3	155.3
Doeblers	RPM 633HXR^	HX,RR2	MQ,C2	110	195.3	22.3	1	873	14	249.7	154.3	171.8	225.3	229.3	141.3
Stine	9631VT3Pro	VT3P	CM,C2	109	193.4	22.2	1	864	16	236.7	153.2	175.2	225.4	214.3	155.4
Buckeye	RR9128VT3PRIB	VT3P,B	AC,P2	110	193.4	22.4	1	864	17	240.6	153.0	178.3	215.9	227.1	145.4
FS InVISION	FS 55ZV4 RIB	VT3P,B	AC,P2,Z	105	193.3	22.1	1	865	15	232.1	154.9	165.2	219.2	238.9	149.5
Pfister	2574RA	STX,B	CM,C2	110	192.7	22.3	1	861	18	237.8	157.2	170.9	209.3	230.1	150.6
Steyer	10702VIP3111	3111	SStd	107	192.2	22.0	1	860	19	222.3	165.1	163.6	209.1	233.2	160.0
NuTech	5B-410	GT/CB/LL	MQ,C2	110	192.1	22.4	1	858	20	229.7	155.9	167.5	216.1	232.2	151.1
Rupp	xr8034	3000GT	CM,C2	105	191.8	22.2	1	857	22	240.9	150.4	172.6	207.5	233.0	146.3
Great Lakes	5525VT3PRO	VT3P	AC,P5V	105	191.6	21.8	1	858	21	241.8	148.8	173.0	215.2	227.3	143.3
Pfister	2413RA	STX,B	CM,C2	105	191.3	22.2	1	855	23	227.7	150.1	181.3	215.9	219.5	153.4
Rupp	xrJ10-91	STX,B	AC,P2	110	191.3	22.3	1	855	24	224.1	153.5	171.8	220.5	233.1	145.0
Great Lakes	5785VT3PRIB	VT3P,B	AC,P5V	107	191.1	22.0	1	855	25	245.2	155.6	166.5	201.4	223.9	153.9
Pfister	2547RA	STX,B	CM,C2	108	190.2	22.2	1	850	26	222.4	163.2	158.7	211.3	233.9	151.4
Doeblers	RPM 657AM^	AM,B	MQ,P1V	112	190.2	22.4	1	849	27	248.8	144.6	167.4	213.0	227.0	140.6
Steyer	10803GENSS RIB	STX,B	SStd	108	190.2	22.4	1	849	28	225.4	144.8	176.1	208.8	232.0	154.2
LG Seeds	LG2575VT3PRIB	VT3P,B	AC,P5V	110	189.8	22.3	1	848	29	235.4	155.1	161.3	213.1	226.4	147.4
Ebberts	9488SSX	STX	AC,P5	108	189.7	22.2	1	848	30	209.6	155.4	158.9	227.7	235.1	151.4
Stine	R9632SS	STX,B	CM,C2	107	189.4	22.3	1	846	31	218.5	159.6	153.4	203.9	239.5	161.6
Golden Harvest	G12J11-3011A CK	3011A	AVC,C5	112	197.1	22.5	1	880	10	238.9	152.2	162.7	232.1	242.5	154.2
Test Average =					**192.3**	**22.2**	**1**	**859**		**235.2**	**153.6**	**166.8**	**216.4**	**230.1**	**151.6**
LSD (0.10) =					8.2	ns	ns			22.6	11.7	14.8	17.6	21.0	10.5

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

Steyer	11407VT3PRO RIB	VT3P,B	SStd	114	**208.9**	23.4	1	928	1	**231.0**	152.3	172.3	**289.6**	249.1	159.1
Steyer	11208VT3PRO RIB	VT3P,B	SStd	112	197.1	23.3	1	876	2	217.7	153.3	165.6	243.4	244.5	157.8
Integra	9642VT3PRO	VT3P	AC,P2	114	196.7	23.3	1	874	3	192.3	155.3	153.8	254.8	254.4	**169.7**
Augusta	A4564GENSS	STX	M,D,P5	114	196.1	23.6	1	870	4	225.1	143.6	153.4	232.7	249.7	**172.1**
Ebberts	7222VT3P	VT3P	AC,P5	112	195.9	23.3	1	870	5	197.2	156.7	164.8	232.9	**266.1**	157.8
Rupp	xrD11-13	VT2P,B	AC,P2	111	195.9	23.3	1	870	6	224.2	**165.0**	156.3	245.9	234.5	149.5
Pfister	2674RA	STX,B	CM,C2	112	193.5	23.3	1	860	7	209.9	147.0	169.3	244.0	241.0	149.8
LG Seeds	LG5618STX	STX	AC,P5V	113	192.7	23.2	1	857	8	201.5	155.0	165.9	229.7	247.2	157.1
Seed Consultants	SCS 1131YHR	OI	MQ,P1V	113	192.4	23.2	1	855	9	207.5	152.1	165.2	237.7	239.1	152.9
Ebberts	6411VT2P	VT2P	AC,P5	111	192.3	23.2	1	855	10	192.4	148.7	159.2	**263.4**	238.2	152.0
Steyer	11103GENSS RIB	STX,B	SStd	111	190.6	23.2	1	847	11	197.3	147.5	171.6	229.8	236.2	161.4
Pfister	2770RA	STX,B	CM,C2	113	190.0	23.3	1	844	14	191.7	142.9	152.7	253.1	239.6	160.1
Ebberts	7712VT3P	VT3P	AC,P5	112	189.9	23.0	1	845	13	208.5	143.9	162.7	224.2	239.0	161.0
Augusta	A5565VT3Pro	VT3P	M,D,P5	114	189.4	23.5	1	840	16	167.2	141.5	155.3	255.0	255.3	162.1
Great Lakes	6232VT3PRIB	VT3P,B	AC,P5V	112	188.9	23.0	1	841	15	188.0	153.8	159.1	224.4	244.4	163.4
Golden Harvest	G14R38-3000GT GC	3000GT	AVC,C5	114	188.4	23.3	1	837	17	**230.5**	154.3	150.5	214.8	224.6	155.7
NK Brand	N71U-3122 GC	3122,B	AVC,C5	113	188.3	23.1	1	837	18	196.5	143.0	157.7	220.7	255.0	157.1
Steyer	11304GENSS RIB	STX,B	SStd	113	187.9	23.3	1	835	19	196.1	143.0	160.0	225.7	233.4	**168.9**
NuTech/G2 Gen	5Z-612	OI	MQ,P1V,R	112	187.4	23.2	1	833	20	207.6	**168.5**	155.6	231.7	219.3	141.7
LG Seeds	LG2636VT3PRIB	VT3P,B	AC,P5V	114	186.8	23.7	1	828	21	194.3	145.9	165.4	222.4	238.4	154.2
FS InVISION	FS 63SX1 RIB	STX,B	AC,P5V,Z	113	186.3	23.7	1	826	23	200.5	135.0	161.8	224.1	238.5	158.0
Pfister	2595RA	STX,B	CM,C2	111	186.1	23.2	1	827	22	199.2	148.2	150.2	233.3	235.0	150.5
Doeblers	RPM 689AMXT^	AMXT,B	MQ,C2	113	185.3	22.9	1	825	24	216.1	146.2	158.7	213.7	234.8	142.2
NuTech/G2 Gen	5Z-1205	OI	MQ,P1V,R	112	185.0	23.1	1	823	25	204.1	134.9	**175.4**	222.3	233.0	140.0
Beck	XL 6175AMX^ GC	AMX,B	Es	112	184.6	23.2	2	821	26	215.4	125.0	160.1	224.2	235.4	147.7
NuTech/G2 Gen	5F-811AM	AM,B	MQ,C2	111	184.1	23.3	1	818	27	191.6	131.3	161.5	237.1	236.0	147.1
Doeblers	698GRQ	3000GT	MQ,C2	114	184.1	23.4	1	817	28	206.1	141.1	165.4	209.7	232.9	149.5
Ebberts	9451SSX	STX	AC,P5	111	183.8	23.3	1	817	29	166.6	163.9	155.3	213.3	250.8	152.8
Pfister	2672RA	STX,B	CM,C2	112	183.4	23.3	1	815	30	193.0	151.9	156.3	223.6	229.1	146.5
Rupp	xrD12-32	VT2P,B	AC,P2	112	182.6	23.0	1	813	31	199.5	131.1	158.9	234.0	225.4	146.8
Golden Harvest	G12J11-3011A CK	3011A	AVC,C5	112	190.3	23.3	2	845	12	204.6	132.3	167.1	224.9	253.1	159.7
Test Average =					**188.6**	**23.3**	**1**	**838**		**200.2**	**146.7**	**160.4**	**230.6**	**239.8**	**153.8**
LSD (0.10) =					10.9	ns	ns			27.8	17.9	14.5	28.2	18.2	14.5

‡ = 2 replications, full-season test

Rob Kauffman, FIRST Manager

Corn Stats:
Yield Range: 183.6-220.3 bu. per acre
Yield Average: 205.9 bu. per acre
Top $ Per Acre: $876

Corn Field Notes: Pennsylvania Central

Centre Hall—The Centre Hall test plot was planted on May 16 and saw good emergence; early development got this test off to a fast start. Then, in the last week of a June, a strong storm with straight-line winds caused some green snap and goose-necking. The green snap was evident in fewer than five plots but the lodging was evident in almost 20% of all plots to some degree. The lodging rating is 95% root lodging. Although the lodging was evident the corn was able to re-root. The harvestability and yield were not affected to a large degree. The average yield from our Centre Hall test was 215.9 bu. per acre. Overall, I would rate this test a 7 out of 10.

Danville—It was just a little too wet in early spring and a little too dry in August. This weather prevented this test from delivering some big yields. The Danville FIRST test was planted on May 20 on a nonirrigated test plot. Seedling emergence was excellent and corn looked good for most of the season. Some late anthracnose did weaken the stalks of a few hybrids, causing them to break below the ear during some fall storms. We lost one conventional hybrid when it was accidentally sprayed with glyphosate. This test yielded an average of 168.6 bu. per acre with a high-producing product yielding 182.8 bu. per acre. Overall, I would rate this test a 7 out of 10.

Martinsburg—The Martinsburg test plot is a second-year corn field and the disease pressure was high. It required resistance to gray leaf spot, anthracnose and Northern corn leaf blight to stand up this year. Although some hybrids were lodged badly they retained enough stalk integrity to feed through the header. Moisture was good until mid-August and September; this aided some weak stalks as corn was trying to finish out its yield. Although at an average of 207.1 bu. per acre this test does not have the highest yield, it is one of the best to look at to see how a hybrid may perform on a more normal year. Overall I would rate this test an 8 out of 10.

McVeytown—The McVeytown FIRST test was hosted by FIRST farmer member Charles Groff. This test was planted on May 6 on a well-drained, nonirrigated field. Strong storms at the end of June caused some root lodging and stalk green snap. Damage, however, was minimal, affecting only a few of the hybrids. Rainfall was adequate until August, when the site went for a few weeks without rain. This dry spell took the top end yield potential off the products at this site. Although this test did not

Photo courtesy of Jason Beyers

Our plot combines are modified versions of those used widely by farmers to harvest. These machines collect grain from individual plots. Grain weight and moisture is electronically measured then entered into a computer for later analysis.

FIRST Pennsylvania Central Corn Results

ALL-SEASON TEST 99-109 Day CRM — **Top 24 of 24 tested**

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Centre Hall	Danville#	Martinsburg	McVeytown	Northumberland	Ringtown
TA Seeds	TA583-28RIB	STX,B	AVC,C2	108	220.3	17.9	13	876	1	226.3	168.9	223.1	**188.2**	**270.8**	244.2
Dyna-Gro	D49VP88	VT3P	AC,P5V	109	218.7	18.5	7	867	3	**236.1**	174.4	220.2	184.9	242.6	**254.2**
TA Seeds	TA544-28RIB	STX,B	AVC,C2	104	217.4	17.0	1	870	2	217.8	177.7	224.4	**198.0**	241.4	244.9
TA Seeds	TA565-20	3000GT	AVC,C2	106	215.3	18.1	3	855	4	223.0	182.8	207.4	**188.6**	246.9	242.8
Chemgro	6947RVP	VT3P	AC,P5V	109	212.5	17.5	16	847	5	225.1	172.0	**232.2**	181.4	247.3	217.2
Doeblers	554GRQ	3000GT	MQ,C2	105	211.9	17.5	1	845	7	226.0	169.6	210.5	171.9	247.8	245.8
FS InVISION	FS 55R25VT3P	VT3P,B	AC,P2	105	210.8	17.5	6	841	9	232.1	171.7	210.1	175.1	243.5	232.0
Dekalb	DKC53-56RIB GC	STX,B	AC,P5	103	210.6	16.9	5	843	8	216.4	168.8	217.7	183.6	239.3	237.9
Dekalb	DKC52-04RIB GC	VT3P,B	AC,P5	102	210.5	16.3	10	846	6	222.5	160.8	197.9	183.7	247.9	**250.2**
Chemgro	6547RVP	VT3P	AC,P5	105	207.7	17.5	16	828	10	218.6	175.2	203.6	175.1	247.4	226.1
Doeblers	RPM 589AMXT^	AMXT,B	MQ,C2	107	206.1	19.5	8	812	15	219.1	167.1	195.6	169.5	242.7	242.7
Hubner	H5333RC3P	VT3P,B	AC,P5V	107	206.0	17.5	11	821	11	209.5	175.2	215.6	169.5	254.4	211.5
Dyna-Gro	D47SS23	STX	AC,P5V	106	205.5	18.4	8	815	13	200.1	163.8	**227.3**	164.8	245.1	231.8
Pioneer	P0210HR GC	HX,RR2	MQ,P1V	102	204.4	16.5	29	820	12	226.1	159.9	209.7	139.4	**263.0**	228.1
Pioneer	P0604YHR GC	OI	CM,C2	106	204.1	17.8	20	812	16	214.3	175.1	178.7	158.4	**261.8**	236.3
Doeblers	RPM 603XRR^	RR2	MQ,C2	108	203.8	18.0	5	810	18	214.6	155.3	216.9	156.4	242.1	237.4
Augusta	A2954GT3000	3000GT	CE,C2	104	203.4	17.6	10	811	17	193.2	176.3	210.1	163.4	244.4	232.9
Augusta	A4658GT3110	3110	CE,C2	108	202.7	18.6	24	803	19	217.4	162.2	187.7	175.6	**259.4**	213.9
Chemgro	6337RVP	VT3P	AC,P5	103	202.1	15.7	9	815	14	218.1	163.3	203.5	151.6	242.4	233.7
Augusta	A5658GTCBLL	GT/CB/LL	CE,C2	108	200.4	18.0	9	797	20	206.2	160.8	193.6	176.0	239.0	226.9
Doeblers	RPM 537AMX^	AMX,B	MQ,P1V	103	198.0	18.8	10	783	21	203.1	154.0	185.9	184.7	225.8	234.3
Augusta	A2956	None	CE,C2	106	193.9	19.7	23	763	23	208.7	killed	186.6	146.8	242.1	185.1
Augusta	A2847GT3000	3000GT	CE,C2	99	191.0	16.0	25	769	22	198.8	173.3	201.9	134.4	226.4	210.9
Doeblers	RPM 498HXR^	HX,RR2	MQ,P1V	99	183.6	16.4	20	737	24	207.8	169.5	209.9	164.4	186.1	163.9
Test Average =					**205.9**	**17.6**	**12**	**820**		**215.9**	**168.6**	**207.1**	**170.2**	**243.7**	**228.5**
LSD (0.10) =					19.6	1.2	11			16.6	15.6	19.4	16.2	15.4	20.5

= not included in summary

have some of the highest yields, it does offer results more "typical" to the area from a standability and yield perspective. Overall, I would rate this test an 8 out of 10.

Northumberland—"Optimal" is the word I would use to best describe the test in Northumberland this year. Early planting on May 1 was followed by excellent emergence and early vigor. The right combination of rainfall and heat produced some of the best corn yields for this area. That was really nice considering this is a nonirrigated field. There was minimal lodging with all hybrids standing perfectly except one; this prohibited us from evaluating stalk and plant health. This test did allow us to see the top end yield potential, which averaged 243.7 bu. per acre on this test. The highest-producing hybrid yielded an astonishing 270.8 bu. per acre. Overall, I would rate this test a 9 out of 10.

Ringtown—The Ringtown FIRST test was hosted by our FIRST farmer member Scott Careyva. This test was planted on May 1 and was one of the nicest-looking tests through July. We had good emergence and excellent stands here. Timely rain during early summer helped the crop before August turned off the water supply on this nonirrigated field. A late-season storm broke some hybrids off just below the ear; however, most were picked up by the header. This test shows nice corn stalk strength differences for central Pennsylvania. The main disease on this test was anthracnose with some diplodia. The average yield from this test was 228.5 bu. per acre. Overall, I would rate this test an 8 of 10.

Site Information						2013 Rainfall (inches)					
Pennsylvania Central						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Centre Hall	silt loam	conventional	corn	200	5/16	2.56	4.49	4.99	1.44	1.08	-2.10
Danville	silt loam	no-till	soybean	180	5/20	2.85	4.72	3.46	1.65	0.01	-1.89
Martinsburg	silt loam	conventional	corn	190	5/14	2.34	3.67	2.69	2.82	-0.57	-0.19
McVeytown	silty clay loam	no-till	soybean	200	5/6	2.03	2.72	2.28	2.13	-1.29	-1.34
Northumberland	silt loam	no-till	soybean	240	5/1	3.33	3.87	3.74	1.96	0.29	-1.58
Ringtown	clay loam	no-till	wheat/soybean	210	5/1	2.74	5.53	3.74	2.52	-0.30	-1.23

Rainfall obtained on-site (* denoted) or estimated from *www.weatherplot.com*. Rainfall Normals (1981-2010) from National Climatic Data Center.

Rob Kauffman, FIRST Manager

Corn Stats:
Yield Range: 215.6-253.2 bu. per acre
Yield Average: 231.0 bu. per acre
Top $ Per Acre: $1,063

Corn Field Notes: Pennsylvania Southeast

Elverson—The Elverson test was planted on May 2 and growing conditions were excellent. The only dry weather on this nonirrigated, silt loam soil test plot came the first two weeks of June. We did see some gray leaf spot and anthracnose but they were not severe enough to cause any lodging problems. The only drawback to this test was some inconsistent stands, possibly caused by some wetter soils right after planting. This is a moderately drained test plot and a well-drained area may have had more consistency. We harvested this test on Oct. 17 with yields averaging 237.3 bu. per acre. The highest-yielding hybrid produced 269.7 bu. per acre. Overall, I would rate this test a 7 out of 10.

Hanover—We planted the Hanover FIRST test on May 15 into a corn-on-corn, nonirrigated area. Conventional tillage of this silty clay loam soil with excellent soil moisture levels and appropriate temperatures helped for an above-average emergence here this year. The corn continued to look good throughout the summer. Dry weather came in late August and September and allowed for excellent crop drydown. There were no major weather issues and very little lodging to interfere with a timely and efficient harvest. This test, which was harvested on Oct. 24, averaged 214.2 bu. per acre with the highest-yielding hybrid reaching 238.8 bu. per acre. Overall, I would rate this test an 8 out of 10.

Kutztown—The Kutztown test was planted on FIRST farmer member Jon Stutzman's farm on May 2. We noted excellent emergence on this no-till, silt loam test plot. Ample rainfall was received the entire growing season on this well-drained test site. Temperatures were moderate with no prolonged heat waves. Foliar diseases were present but fungicide did not allow them to cause any real problem for most hybrids; there was some stalk lodging so this test gave us a good look at stalk health at harvest. The highest-producing hybrid yielded an impressive 280.7 bu. per acre and the entire test averaged 248.7 bu. per acre. Overall, I would rate this test a 9 out of 10.

Lancaster—A no-till corn-on-corn site is always a challenging environment for hybrid disease resistance and for researchers to generate good stands and quality data. This year worked out to deliver rain when needed and some moderate storms at harvest to test stalk quality. The only dry spell of the summer came for about two weeks in early to mid-July but the corn seemed to hold up through that period. A late-season storm a day before harvest caused some hybrids to break over; most of the breakage was right at ear level. For the most part, stalk integrity prevented harvest weights from being greatly affected. This was a nice test to evaluate the vigor and stalk strength of hybrids. Overall, I would rate this test a 7 out of 10.

Lebanon—The Lebanon test was planted on April 27 into silt loam soil on FIRST farmer member Steve Wenger's farm. We noted excellent growing conditions for most of the

Photo courtesy of Jason Beyers

This shows a typical seed storage room. Preparation begins more than 4 weeks before planting. Countless hours are spent packaging seed and organizing seed packets in planting order before storing them in planting boxes. Considerable planning, organization and preparation is necessary for efficient planting operations on these replicated tests.

FIRST Pennsylvania Southeast Corn Results

ALL-SEASON TEST 105-115 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	Elverson	Hanover	Kutztown	Lancaster	Lebanon	Spring Grove
Chemgro	7147RVP	VT3P	AC,P2	111	**253.2**	21.0	3	1,063	1	**262.6**	225.7	264.0	**216.9**	**276.4**	**273.4**
Mid-Atlantic	MA8099VT3P	VT3P	AC,P2	109	**246.9**	21.4	7	1,035	2	249.4	**238.8**	**280.7**	194.2	244.0	**274.5**
Steyer	11504VT2PRO RIB	VT2P,B	SStd	114	**243.8**	22.0	5	1,018	4	249.4	223.6	**271.6**	199.1	244.8	**274.5**
Augusta	A4564GENSS	STX	M,D,P5	114	**243.8**	23.8	0	1,007	6	249.2	213.6	264.1	**224.7**	251.8	259.5
Dekalb	DKC62-97RIB GC	VT3P,B	AC,P5	112	243.7	20.7	4	1,025	3	244.7	**229.7**	259.4	**223.0**	239.5	265.8
Dyna-Gro	D52VC91	VT2P	AC,P5V	112	241.2	22.1	1	1,006	7	237.8	222.4	**268.0**	194.2	246.3	**278.5**
Hubner	H4744RC2P	VT2P,B	AC,P5V	113	240.8	22.9	1	1,000	8	255.6	220.8	259.5	192.7	244.3	**271.8**
Dyna-Gro	CX53VP22	VT3P	AC,P5V	113	240.4	20.6	7	1,012	5	240.0	227.9	255.8	199.1	248.5	**270.8**
Mid-Atlantic	MA5105-3000GT	3000GT	AC,P2	109	238.1	21.5	6	997	9	**258.1**	217.1	253.9	202.6	251.5	245.2
TA Seeds	TA683-13VP	VT3P	AVC,C2	112	238.0	21.9	15	994	11	246.6	213.1	**268.3**	**219.2**	216.0	264.6
FS InVISION	FS 64R46SS	STX,B	AC,P5V	114	237.9	22.7	0	989	13	249.6	216.3	256.9	189.1	**256.3**	259.4
Steyer	11407VT3PRO RIB	VT3P,B	SStd	114	237.5	22.5	10	989	14	247.6	215.4	257.2	193.6	234.2	**276.9**
Steyer	11103GENSS RIB	STX,B	SStd	111	235.2	22.3	3	980	16	231.7	219.8	255.7	206.5	250.2	247.1
TA Seeds	TA614-22DPRIB	VT2P,B	AVC,C2	110	235.0	19.6	7	995	10	243.0	226.5	233.5	212.2	238.7	256.2
Doeblers	RPM 689AMXT^	AMXT,B	MQ,C2	113	234.9	22.8	3	976	20	243.0	221.6	**267.4**	177.8	243.2	256.1
Doeblers	RPM 657AM^	AM,B	MQ,P1V	112	234.7	22.3	4	978	18	245.7	208.9	**271.4**	172.2	243.9	266.3
Doeblers	RPM 633HXR^	HX,RR2	MQ,C2	110	234.6	22.2	4	978	19	245.5	202.9	**279.0**	199.3	228.6	252.0
Hubner	H5420VT3P	VT3P	AC,P5V	110	234.0	20.2	9	987	15	235.7	212.8	254.8	190.7	241.7	268.2
Doeblers	RPM 647AM1^	AM1,B	MQ,C2	110	233.8	22.2	7	975	21	226.3	199.7	247.2	208.4	**253.0**	268.3
Dekalb	DKC62-08RIB GC	STX,B	AC,P5	112	233.7	22.2	1	975	22	232.7	214.6	248.7	202.2	251.8	252.1
Dyna-Gro	D55VP77	VT3P	AC,P5V	115	233.4	22.3	4	973	23	236.1	215.3	245.5	185.7	**253.1**	264.7
TA Seeds	TA583-28RIB	STX,B	AVC,C2	108	233.0	18.7	9	992	12	235.6	215.1	263.7	183.6	242.9	257.0
Doeblers	698GRQ	3000GT	MQ,C2	114	233.0	24.5	5	958	29	253.4	213.1	250.3	207.0	243.4	231.0
Doeblers	RPM 589AMXT^	AMXT,B	MQ,C2	107	232.6	20.6	5	979	17	236.9	209.4	242.7	197.8	235.4	**273.1**
TA Seeds	TA744-22DPRIB	VT2P,B	AVC,C2	114	232.3	24.3	1	956	30	224.2	204.7	**274.0**	195.8	246.7	248.3
Augusta	A5565VT3Pro	VT3P	M,D,P5	114	231.7	22.5	1	964	25	244.9	207.3	246.9	187.7	**252.6**	250.6
Steyer	11304GENSS RIB	STX,B	SStd	113	228.7	21.2	1	959	27	219.5	209.7	235.0	200.2	251.2	256.3
Hubner	H6615RCSS	STX,B	AC,P5V	111	228.5	21.1	2	959	28	227.2	204.4	244.4	203.0	232.0	259.9
Pioneer	P0891AM1 GC	AM1,B	CM,C2	108	228.3	19.2	3	969	24	233.4	204.2	254.1	179.9	237.5	260.7
Doeblers	RPM 603XRR^	RR2	MQ,C2	108	225.8	18.7	6	961	26	238.4	214.6	237.4	172.0	231.3	261.0
Test Average =					**231.0**	**21.7**	**6**	**966**		**237.3**	**214.2**	**248.7**	**196.9**	**232.8**	**256.1**
LSD (0.10) =					12.8	0.9	9			20.1	14.7	17.8	20.0	19.6	13.7

growing season. Exceptional emergence and early vigor was observed on this test. The corn developed big ears and overall stalk quality was superior. A heavy rainstorm and wind in September did cause some hybrids to root lodge severely while other hybrids were not affected at all. This was an outstanding test to judge root strength and drydown. We harvested an average of 232.8 bu. per acre on this test plot with the highest-yielding hybrid producing 276.4 bu. per acre. Overall, I would rate this test an 8 out of 10.

Spring Grove—The Spring Grove test was planted on FIRST farmer Jim Bange's York County farm on May 17. As in other area tests, we noted excellent emergence followed by ample rainfall throughout the summer. The summer heat never peaked enough to stress the corn. A late-June storm did cause some green snap but very little damage was observed and lodging was minimal. Northern corn leaf blight and gray leaf spot were present but fungicide controlled any outbreak. Stalks stayed healthy and green until harvest. This was possibly one of the nicest tests I harvested. Top yields on this test plot were 275.8 bu. per acre and the average yield was 256.1 bu. per acre. I would give this test a perfect rating of 10 out of 10.

Site Information						2013 Rainfall (inches)					
Pennsylvania Southeast						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Elverson	silt loam	no-till	soybean	182	5/2	2.87	7.94	3.59	4.20	-1.37	0.40
Hanover	silty clay loam	conventional	corn	175	5/15	2.76	7.22	4.97	5.61	1.04	1.83
Kutztown	silt loam	no-till	pumpkin	255	5/2	2.02	4.64	4.10	4.50	-0.42	0.40
Lancaster	silty clay loam	no-till	corn	205	5/10	3.20	6.62	4.30	4.58	-0.14	1.16
Lebanon	silt loam	conventional	corn	205	4/27	2.05	4.06	6.53	3.55	1.97	-0.09
Spring Grove	silty clay loam	no-till	wheat/soybean	205	5/17	3.03	7.03	4.82	5.54	1.00	1.94

Rainfall obtained on-site (* denoted) or estimated from *www.weatherplot.com*. Rainfall Normals (1981-2010) from National Climatic Data Center.

Rob Kauffman, FIRST Manager

Corn Stats:
Yield Range: 191.2-227.7 bu. per acre
Yield Average: 209.1 bu. per acre
Top $ Per Acre: $928

Corn Field Notes: Delaware Maryland North

Bridgeville—The Bridgeville test is planted on FIRST farmer member Ken Arney's farm in Sussex County in Delaware. We planted this test on May 3 and observed good soil emergence with plenty of rainfall for most of the growing season. Irrigation was only needed twice during all of June, July and August. Anthracnose caused some hybrids to lodge but overall standability was good. There were no major storms through the fall. This was a growing season that had almost too much rainfall but ample drainage prevented this from hurting yields. The average yield from this test was 241.9 bu. per acre. The highest-yielding hybrid on this test produced 267 bu. per acre. Overall, I would rate this test a 7 out of 10.

Photo courtesy of Rob Kauffman

This was an outstanding corn production year in the Mid-Atlantic area. Ample rainfall and moderate temperatures were the ticket for high yields in 2013. This Greencastle, Penn. test site exemplifies early-season corn growth this year.

Chestertown—The Chestertown test was planted on FIRST farmer member Tom Mason's Kent County farm on May 21. On this test we observed excellent emergence and fantastic early vigor. Rainfall was excellent throughout most of the growing season. Late August and early September did dry a little on this nonirrigated site but not enough to hurt yields. Some rains in June were very heavy, at one point reaching 7" in one night, but soils did seem to drain adequately. This test showed the corn finishing off very well with some of the best yields ever taken. The test, which was harvested on Oct. 15, averaged a yield of 236.1 bu. per acre. Overall, I would rate this test an 8 out of 10.

Middletown—FIRST farmer member Bill Alfree hosted the Middletown test in New Castle County in Delaware. This test was planted on May 3 and became one of the highest-yielding tests I have ever harvested. I observed good emergence and rainfall throughout the season on this nonirrigated, well-drained test site. In addition to the adequate rain, the site never had temperatures reach a level too high above normal. There was no lodging on this test and standability was excellent. We harvested this test on Oct. 4 and the average yield here was 254 bu. per acre. The highest-producing hybrid yielded an average of 283.8 bu. per acre over three replications. Overall, I would rate this test a 9 out of 10. It would be nice if every field produced like this!

Sudlersville—Too much of a good thing is too much. This test was soaked with too much rain for most of May and all of June. The rainfall total for just one storm was over 9". Because of all the rainfall, a lot of nitrogen leached out of the root zone and soil conditions never dried enough to allow a sidedress application. To add insult to injury, the only dry weather came in August when the corn was trying to finish, which proved to further reduce yield potential. Overall, I would rate this test a 5 out of 10.

Warwick—The Warwick test site was hosted by FIRST farmer member Jonathan Quinn in Cecil County in Maryland. This test was planted on May 21 on a well-drained, nonirrigated field. Like most of the Delmarva, this test had enough timely rain to produce a very nice crop and in

FIRST Delaware Maryland North Corn Results

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

Company/ Brand	Product/ Brand	Technology	Seed Treatment	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Gross Income Rank	Bridgeville	Chestertown	Middletown	Sudlersville‡	Warwick	Westminster
Hubner	H4744RC2P	VT2P,B	AC,P5V	113	**227.7**	20.0	0	928	1	256.9	**257.9**	**279.6**	**107.8**	257.1	206.6
Dyna-Gro	CX53VP22	VT3P	AC,P5V	113	**225.0**	18.3	0	926	2	249.2	**262.7**	**281.3**	84.2	**261.3**	211.3
Augusta	A6665VT3Pro	VT3P	M,D,P5	115	**221.9**	19.4	0	908	3	245.5	241.7	**276.2**	81.4	257.5	**229.2**
Chemgro	7147RVP	VT3P	AC,P2	111	219.6	19.1	1	900	4	240.8	**256.6**	265.1	97.0	253.8	204.3
Dekalb	DKC62-97RIB GC	VT3P,B	AC,P5	112	219.0	19.0	1	898	5	247.1	235.6	253.3	**99.6**	**260.7**	**217.9**
TA Seeds	TA774-22DPRIB	VT2P,B	AVC,C2	116	218.6	23.1	0	874	12	249.6	**255.7**	**283.8**	62.5	248.3	211.5
Mid-Atlantic	MA5105-3000GT	3000GT	AC,P2	109	217.6	19.3	1	891	6	245.8	**255.4**	253.8	**102.7**	246.2	201.6
TA Seeds	TA683-13VP	VT3P	AVC,C2	112	216.6	19.2	2	887	7	244.0	249.3	**275.6**	84.8	251.3	194.5
FS InVISION	FS 64R46SS	STX,B	AC,P5V	114	216.6	20.9	0	878	8	241.2	242.2	**279.2**	68.9	250.6	**217.3**
Dyna-Gro	D55VP77	VT3P	AC,P5V	115	215.2	20.4	0	875	10	257.9	245.2	269.2	77.7	242.7	198.4
Augusta	A4564GENSS	STX	M,D,P5	114	214.4	21.9	0	863	18	**267.4**	246.2	264.3	62.5	248.3	197.4
Mid-Atlantic	MA8102VT3P	VT3P	AC,P2	110	214.3	19.3	0	877	9	247.0	229.3	268.9	**103.9**	237.4	199.1
Chemgro	7437RVP	VT3P	AC,P2	114	214.3	20.4	1	871	13	230.9	250.6	260.2	80.9	**260.3**	202.7
Augusta	A5262GT3000	3000GT	CE,C2	112	214.0	21.1	1	866	17	251.0	232.4	249.4	81.7	251.6	**217.7**
Mid-Atlantic	MA8099VT3P	VT3P	AC,P2	109	213.7	19.2	1	875	11	227.7	**264.9**	263.3	76.0	250.9	199.2
Augusta	A5565VT3Pro	VT3P	M,D,P5	114	213.7	20.5	1	868	15	254.8	229.2	266.3	88.2	240.6	203.0
TA Seeds	TA744-22DPRIB	VT2P,B	AVC,C2	114	213.3	21.6	0	861	19	256.9	234.7	251.2	87.3	247.4	202.0
Dyna-Gro	D52VC91	VT2P	AC,P5V	112	212.8	19.7	0	869	14	248.5	242.2	269.7	61.6	252.5	202.1
TA Seeds	TA753-28RIB	STX,B	AVC,C2	115	211.7	20.8	0	858	22	241.6	230.2	269.4	87.6	245.5	195.7
Doeblers	698GRQ	3000GT	MQ,C2	114	211.7	21.6	2	854	23	256.5	240.2	243.5	61.5	249.6	**218.7**
Hubner	H5420VT3P	VT3P	AC,P5V	110	211.1	18.7	1	867	16	246.5	239.5	266.8	74.5	248.6	190.4
Doeblers	RPM 657AM^	AM,B	MQ,P1V	112	210.0	19.4	0	859	20	247.7	**258.5**	252.3	80.5	238.6	182.5
Augusta	A0720GTCBLL	GT/CB/LL	CE,C2	111	208.3	21.1	1	843	26	249.6	232.8	254.6	72.3	243.9	196.5
Doeblers	RPM 603XRR^	RR2	MQ,C2	108	207.5	17.5	0	859	21	256.1	218.0	259.1	68.4	246.0	197.4
Doeblers	RPM 689AMXT^	AMXT,B	MQ,C2	113	207.3	19.9	0	845	25	239.4	232.0	255.7	87.5	235.8	193.4
TA Seeds	TA614-22DPRIB	VT2P,B	AVC,C2	110	207.1	18.0	4	854	24	242.1	223.2	249.0	68.0	249.1	211.0
Chemgro	7537RVP	VT3P	AC,P2	115	206.5	20.3	0	840	27	245.1	225.8	264.6	90.8	232.5	180.4
Dekalb	DKC62-08RIB GC	STX,B	AC,P5	112	204.6	19.2	1	838	28	240.9	242.6	226.3	88.7	241.8	187.3
Mycogen	2V709	STX,B	CM,C2	110	204.5	19.0	1	838	29	245.5	224.4	237.8	82.5	236.4	200.3
TA Seeds	TA617-20	3000GT	AVC,C2	110	202.6	17.8	10	837	30	214.1	202.0	255.3	72.9	260.0	211.3
Test Average =					**209.1**	**19.9**	**1**	**853**		**241.9**	**236.1**	**254.0**	**77.8**	**245.4**	**199.4**
LSD (0.10) =					11.9	0.8	4			19.3	15.1	16.2	19.5	14.7	17.9

‡ = 2 replications

addition the temperatures never got so excessive as to stress the crops. Corn seedlings emerged well after planting and continued to look good all season long. Disease was never able to get a handle on this test and corn was standing excellently at harvest. The only exception was for tops that were broken off due to late-season corn borer. This site produced an average of 245.4 bu. per acre. Overall, I would rate this test an 8 out of 10.

Westminster—This was planted on May 25. It was the last test planted; had it not been, the yields would have probably been even higher. We planted the Westminster test into some heavy residue but timely rain right after planting gave it a very good emergence. We also had adequate rainfall all summer which, combined with a lack of extreme heat, really factored into these good yields. Some drier weather in August and the late planting date are the only reasons these yields were not better than they were. We harvested this test on Nov. 15 and the average yield here was 199.4 bu. per acre. There was very little disease and standability at harvest was excellent. Overall, I would rate this test a 7 out of 10.

Site Information						2013 Rainfall (inches)					
Delaware Maryland North						Monthly				Vs. 30-year avg.	
Site	Soil Texture	Tillage	Prev. Crop	Units N	Planted	May	June	July	August	July	August
Bridgeville	loamy sand	conventional	soybean	240	5/3	3.08	7.55	3.98	4.26	-0.41	0.39
Chestertown	sandy loam	conventional	soybean	251	5/21	3.06	10.60	5.62	4.05	1.54	0.80
Middletown	loamy sand	minimum	soybean	275	5/3	3.05	7.00	4.70	4.08	0.15	0.31
Sudlersville	loamy sand	no-till	wheat/soybean	n/a	5/10	3.31	9.92	5.74	3.58	1.66	0.33
Warwick	sandy loam	minimum	soybean	186	5/21	2.81	6.66	3.86	3.60	-0.69	-0.17
Westminster	silty clay loam	no-till	soybean	250	5/25	3.03	6.22	5.45	3.17	1.13	-0.55

Rainfall obtained on-site (* denoted) or estimated from *www.weatherplot.com*. Rainfall Normals (1981-2010) from National Climatic Data Center.

FIRST Illinois North Central Soybean Results

Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Delavan	silty clay loam	no-till	30	6/10	103.3	low	1.06
Macomb	silty clay loam	minimum	30	6/8	112.2	medium	0.14
Paxton	silty clay loam	no-till	30	6/6	119.2	low	1.59
Towanda	silty clay loam	no-till	30	6/5	123.1	medium	1.99

Rainfall obtained on-site (*denoted) or estimated from *www.weatherplot.com*

Eric Beyers, FIRST Manager

Soybean Stats:
Yield Range: 48.7-62.6 bu. per acre
Yield Average: 56.7 bu. per acre
Top $ Per Acre: $809

Soybean Field Notes: Illinois North Central

Delavan—This field is now in its third year of production after being in set-aside for over a decade. Extremely wet spring conditions delayed planting until June 10; this delay seemed normal for many fields this year. Soybean plants were short at 18" to 30" in height, which could possibly be due to limited rainfall. Rainfall totals for the season were 9.14" in May, 4.68" in June, 1.56" in July and 1.06" in August. Seed quality was very good and seeds were mostly large in size. There was no lodging in the test and the average yield here was 57 bu. per acre.

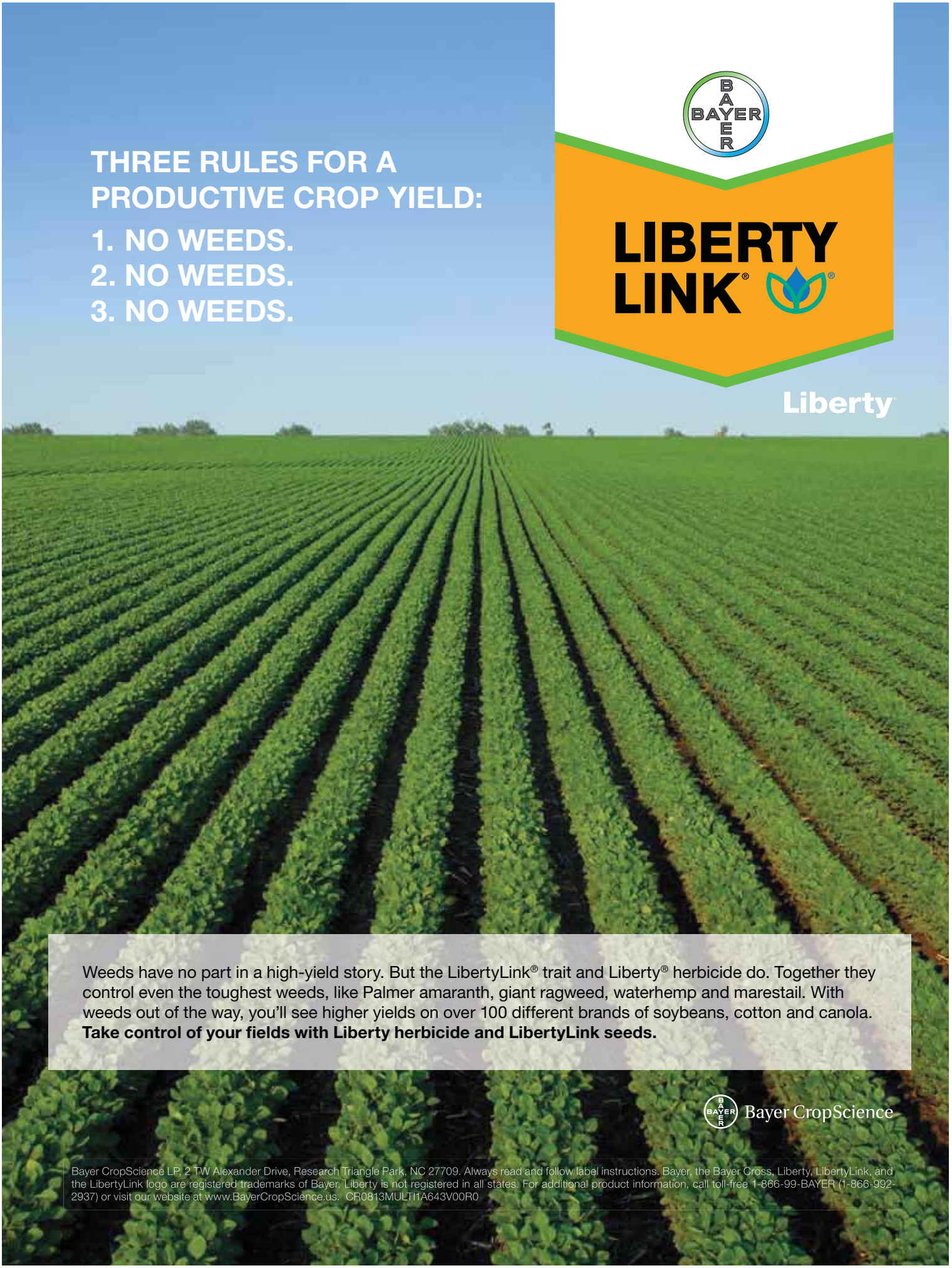
Macomb—FIRST farmer member Jerry Lewis was impressed with his good soybean yields despite the lack of rain in August this year. Plant heights ranged from 30" to 36" with little or no side branches. Seed quality was excellent and seeds were mostly large in size.

Paxton—Overall yield at the Paxton test site was good considering the weather this year. This test was planted on FIRST farmer member Mike Short's farm on June 6. Rainfall in July and August totaled 3.79" and 1.59", respectively. A July storm delivered hail and additional stress. This combined weather pattern must have hurt top end yields. The average yield on this test plot was 52.3 bu. per acre. The soybean plants here were shorter than normal at 24" to 30" tall. Seed quality was good and medium to large in size.

Towanda—FIRST farmer member Judson Stover hosted the Towanda test, which was planted on June 5. We harvested excellent yields considering the late planting date. They averaged 61.1 bu. per acre. This site received limited rainfall totaling only 1.42" in July and 1.99" in August. The seed quality was excellent, however, with large seeds. Harvested plants ranged from 30" to 42" in height and there was no lodging on this test.

2.8-3.8 Maturity Group — **Top 20 of 60 tested**

Company/ Brand	Product/ Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Delavan	Macomb	Paxton	Towanda
NK Brand	S38-W4 §	RR2Y	3.8	R	CMBV	**62.6**	16.7	0	809	60.1	**62.7**	**58.6**	**68.9**
FS Hisoy	HS 38A22	RR2Y	3.8	R	CMB	**61.4**	17.1	0	793	**66.0**	59.6	54.5	65.5
Stine	37RC82 §	RR2Y	3.7	R	CMB	**61.2**	16.6	0	791	61.8	**61.1**	55.5	**66.2**
Channel	3806R2/STS	RR2Y,STS	3.8	MR	ACi	**61.0**	17.1	0	788	**63.4**	59.6	**58.2**	62.7
Pfister	35R25	RR2Y	3.5	R	CMB	**60.5**	16.4	0	782	61.3	**61.0**	53.9	65.6
LG Seeds	C3989R2	RR2Y	3.8	R	AC,PV	**60.4**	16.7	0	781	60.9	59.0	54.9	**66.8**
LG Seeds	C3770R2	RR2Y	3.7	R	AC,PV	**59.9**	16.0	0	775	59.8	57.2	57.3	65.1
FS Hisoy	HS 33A32	RR2Y	3.3	R	CMB	**59.8**	15.9	0	774	56.7	**62.4**	55.1	65.0
Steyer	3604R2	RR2Y	3.6	MR	SStd	**59.8**	16.4	0	773	**63.5**	**60.4**	53.2	62.1
NuTech/G2 Gen	7360^	RR	3.6	R	SCE	**59.6**	17.3	0	770	60.9	59.2	54.4	63.9
Stone	2R3604	RR2Y	3.6	MR	ACi	59.3	16.1	0	767	61.0	58.4	53.6	64.1
Steyer	3406R2	RR2Y	3.4	MR	SStd	59.3	16.4	0	767	58.7	**60.3**	53.3	65.0
Asgrow	AG2933 §	RR2Y	2.9	R	ACi	59.3	16.5	0	767	**62.6**	58.0	50.9	65.8
Pfister	36R29	RR2Y	3.6	R	CMB	59.3	16.8	0	766	54.3	57.9	56.0	**69.1**
Asgrow	AG3334 GC	RR2Y	3.3	R	ACi	58.9	16.2	0	762	57.8	58.5	57.7	61.4
Asgrow	AG3832 §	RR2Y	3.8	R	ACi	58.9	16.7	0	761	59.1	58.2	55.6	62.5
Asgrow	AG3731 GC	RR2Y	3.7	R	ACi	58.5	16.6	0	756	58.0	59.0	56.3	60.8
Stone	2R3103	RR2Y	3.1	R	ACi	58.4	16.4	0	755	61.0	57.5	52.8	62.2
Great Heart	GT-376CR2	RR2Y	3.7	R	None	58.3	16.8	0	753	60.5	57.4	55.9	59.2
Pfister	37R23	RR2Y	3.7	R	None	58.1	17.1	0	751	57.5	57.4	55.7	61.6
Site Averages =						**56.7**	**16.6**	**0**	**733**	**57.0**	**56.5**	**52.3**	**61.1**
LSD (0.10) =						2.7	0.4	ns		5.4	3.2	5.2	5.1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FIRST Illinois South Central Soybean Results

Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Clayton*	silty clay loam	minimum	30	6/8	105.8	low	0.53
Forsyth	silty clay loam	minimum	30	6/6	123.6	low	0.82
Tuscola	silty clay loam	no-till	30	6/6	123.9	medium	0.81
Virden	silt loam	minimum	30	6/7	108.5	medium	0.57

Rainfall obtained on-site (*denoted) or estimated from *www.weatherplot.com*

Eric Beyers, FIRST Manager

Soybean Stats:
Yield Range: 46.8-59.4 bu. per acre
Yield Average: 53.7 bu. per acre
Top $ Per Acre: $770

Soybean Field Notes: Illinois South Central

Clayton—FIRST farmer member Terry Smith stated, "In July, August and September we had very little rain. The third week of September was our first real rain at 1.2"." The test field received a little more rain in July, measuring 1.56". It had plants 36" to 42" tall with most of them having very good side branching. A few did lodge slightly. Seed quality was average to good. Large seeds varied from round to oval in shape.

Forsyth—This site had a disease present; it was either brown stem rot or sudden death syndrome. It caused many varieties to keep their leaves or petioles attached. Lower-yielding varieties seemed to be disease-susceptible. The top 6" to 10" of these plants' pods were dead with a gray discoloring. The healthier, higher-yielding varieties exhibited a clean sheen of healthy pods at the top of the plants. The disease caused a difference of about 20 bu. per acre between varieties. Seed quality and size also varied. Lower-yielding varieties had oval-shaped seeds that were erratic in size while the seeds of the healthy variety were large and round.

Tuscola—The yield of this trial averaged close to what FIRST farmer member John Carmack had been finding in surrounding fields; the test yielded an average of 44.3 bu. per acre. The lack of rain in July, which received 2.45" of rain, and in August, which had 0.81", appears to have lowered yield potential. Seed quality was good and sizes varied from medium and oval-shaped to large. Plant heights were 24" tall.

Virden—This site was planted later because of relentless early-season rains. On-site rain totals were 16" in May, 5.75" in June, 2.75" in July and zero inches in August. In the later season, a strong windstorm from the north caused many varieties to lodge in a southern direction. Plant heights ranged from 36" to 48" tall. Seed quality was good and sizes varied from medium and oval to large and round.

3.3-4.3 Maturity Group — **Top 20 of 60 tested**

Company/ Brand	Product/ Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Clayton	Forsyth	Tuscola	Virden
FS Hisoy	HS 42A12	RR2Y	4.2	R	CMB	**59.4**	14.6	0	770	**65.5**	60.3	**47.8**	**63.8**
NK Brand	S39-U2 §	RR2Y	3.9	R	CMBV	**57.9**	15.0	3	750	**63.8**	**62.4**	**47.7**	57.8
Stone	2R4003	RR2Y	4.0	R	ACi	**57.6**	14.6	0	747	**64.5**	**62.0**	45.0	58.8
Asgrow	AG4232 §	RR2Y,STS	4.2	R	ACi	**57.5**	16.0	1	744	61.9	**61.8**	47.2	59.0
FS Hisoy	HS 38A22	RR2Y	3.8	R	CMB	**57.4**	15.2	1	744	61.7	58.6	**48.1**	**61.3**
Great Heart	GT-385CR2	RR2Y	3.8	R	None	**56.9**	15.0	0	737	62.8	59.2	**49.0**	56.6
Great Heart	GT-427CR2	RR2Y	4.2	R	AP	**56.8**	14.6	0	737	**65.4**	57.2	46.5	58.0
FS Hisoy	HS 39A22	RR2Y	3.9	R	CMB	**56.7**	14.7	0	735	**65.9**	55.9	46.5	58.4
Lewis	414R2	RR2Y	4.1	MR	ACi	**56.7**	15.0	1	735	62.9	61.0	44.6	58.2
Stine	37RC82 §	RR2Y	3.7	R	CMB	**56.4**	14.9	0	731	**65.9**	60.8	45.5	53.3
LG Seeds	C3989R2	RR2Y	3.8	R	AC,PV	56.0	14.8	0	726	60.8	**63.3**	44.4	55.5
Steyer	3903R2	RR2Y	3.9	MR	SStd	55.7	14.7	0	722	60.2	60.7	41.9	**59.8**
Great Lakes	GL3729R2	RR2Y	3.7	R	AC,PV	55.4	14.7	1	718	59.7	59.4	45.2	57.4
Steyer	4203R2	RR2Y	4.2	MR	SStd	55.2	14.5	0	716	62.3	55.5	43.5	**59.3**
Asgrow	AG3832 §	RR2Y	3.8	R	ACi	55.2	14.9	0	716	60.6	58.0	45.1	57.0
Pfister	42R26	RR2Y	4.2	R	CMB	55.2	15.8	0	715	59.8	59.1	45.9	56.0
Asgrow	AG3934 GC	RR2Y	3.9	R	ACi	55.0	14.3	0	714	58.9	60.4	47.3	53.5
LG Seeds	C3650R2	RR2Y	3.6	R	AC,PV	55.0	15.3	1	712	60.5	60.7	44.2	54.5
NuTech/G2 Gen	7360^	RR	3.6	R	SCE	54.7	15.3	0	709	61.1	55.6	46.1	55.9
Dairyland	DSR-4010/R2Y	RR2Y	4.0	MR	CMB,O	54.7	15.4	8	708	59.8	54.0	46.6	58.3
Site Averages =						**53.7**	**14.9**	**1**	**696**	**59.3**	**56.4**	**44.3**	**54.9**
LSD (0.10) =						2.7	0.6	3		4.3	4.7	3.4	4.4

FIRST Illinois South Soybean Results

Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Belleville	silt loam	no-till	30	5/26	80.9	medium	1.98
Du Quoin	clay loam	no-till	30	5/30	62.7	high	0.92
Shumway	silt loam	minimum	30	6/12	114.8	low	0.97
Vandalia	silty clay loam	minimum	30	6/11	113.6	medium	3.34

Rainfall obtained on-site (*denoted) or estimated from *www.weatherplot.com*

Eric Beyers, FIRST Manager

Soybean Stats:
Yield Range: 53.6-66.8 bu. per acre
Yield Average: 61.1 bu. per acre
Top $ Per Acre: $868

Soybean Field Notes: Illinois South

Belleville—FIRST farmer member Don Barttelbort indicated the site received three 5" rains after planting. The excess water reduced soybean stand, but survivors branched significantly to make great yield. Barttelbort said that a windstorm microburst (a strong wind downdraft) with small vortexes flattened some varieties, but they still grew upright enough for the combine to harvest. Plant height ranged from 30" to 48" tall. Seed quality was fair to good with medium to very large seed.

Du Quoin—This site received more than 4" of very cold rain immediately after planting. The combination of cold rain and soil pathogens heavily reduced stands. In the following weeks of June, rain kept falling to the point that a replant was not possible. These early-season conditions stunted soybean plants even in test plots with good stands. Overall, plant height ranged from 12" to 36" tall. Seed quality and size varied greatly. Results from this test were rejected due to highly varied yield from excessive water and associated soybean stand reductions.

Shumway—Some varieties at this site had a few leaves and petioles still attached to the plant as if an early frost might have happened. Seed quality was good. Seed size was moderate to large, ranging from round to oval in shape. All varieties were standing perfectly at harvest. Final populations were also quite good. Overall yield level was decent for this test being planted on June 12.

Vandalia—The Vandalia site had excellent yields this year. Seed size was large and seed quality was very good. Sometime during the season, a strong windstorm must have moved in a southern direction through the area. Some varieties were lying nearly horizontal from a point about 5" to 6" off the ground. This greatly reduced combine speed but the reel did a good job of pulling them up into the header. Plant heights were robust at 40" to 50" tall.

3.8-4.7 Maturity Group — **Top 20 of 60 tested**

Company/ Brand	Product/ Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Belleville	Du Quoin#	Shumway	Vandalia
Asgrow	AG4232 §	RR2Y,STS	4.2	R	ACi	**66.8**	12.0	11	868	**74.8**	**49.1**	55.0	70.7
FS Hisoy	HS 42A12	RR2Y	4.2	R	CMB	65.9	11.7	11	857	69.8	**42.1**	56.8	**71.1**
NK Brand	S39-U2 §	RR2Y	3.9	R	CMBV	65.8	12.0	41	855	**71.5**	38.6	**59.9**	66.0
FS Hisoy	HS 39A22	RR2Y	3.9	R	CMB	65.6	11.9	0	853	70.8	31.9	**58.5**	67.4
Steyer	4203R2	RR2Y	4.2	MR	SStd	65.1	11.6	3	846	69.5	37.7	57.0	68.9
Dyna-Gro	39RY43	RR2Y	4.3	R	ACi	64.9	11.8	11	844	70.2	40.6	52.5	**72.0**
Stone	2R4003	RR2Y	4.0	R	ACi	64.5	11.8	1	839	69.2	21.7	51.9	**72.5**
Stone	2R4302	RR2Y	4.3	R	ACi	64.5	11.8	14	839	69.2	38.1	53.3	**71.1**
Pfister	43R29	RR2Y	4.3	R	CMB	64.4	11.7	5	837	66.0	34.9	**58.4**	68.9
LG Seeds	C4544R2	RR2Y	4.5	R	AC,PV	64.0	11.9	21	832	71.1	37.0	53.3	67.5
Seed Consultants	SCS 9443RR	RR	4.4	R	EE,G	63.9	12.0	12	831	69.1	28.5	53.9	68.8
Stone	2R4604STS	RR2Y,STS	4.6	R	ACi	63.8	11.9	14	829	68.2	**47.4**	**58.1**	65.0
Seed Consultants	SCS 9393RR	RR	3.9	R	EE,G	63.7	11.4	0	828	67.5	39.1	55.1	68.5
Dyna-Gro	31RY45	RR2Y	4.5	R	ACi	63.4	11.9	23	824	66.3	37.9	54.0	70.0
Channel	4306R2/STS	RR2Y,STS	4.3	R	ACi	63.3	11.6	1	823	69.5	33.1	52.9	67.5
Asgrow	AG3832 §	RR2Y	3.8	R	ACi	63.2	12.0	0	822	67.2	16.6	54.5	67.8
Great Heart	GT-427CR2	RR2Y	4.2	R	AP	63.2	11.7	6	822	66.9	23.4	52.9	69.8
FS Hisoy	HS 40A32	RR2Y	4.0	R	CMB	62.9	11.6	20	818	65.2	18.5	49.2	**74.3**
Steyer	4701R2	RR2Y	4.7	MR	SStd	62.8	12.1	1	816	**72.0**	32.1	55.3	61.0
Channel	4500R2/STS	RR2Y,STS	4.5	S	ACi	62.5	12.4	13	813	68.9	**41.1**	54.4	64.3
Site Averages =						**61.1**	**11.9**	**10**	**794**	**65.0**	**33.6**	**51.5**	**66.8**
LSD (0.10) =						5.2	0.3	14		6.4	7.2	5.6	4.2

= rejected results, not included in summary


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FIRST Indiana Central Soybean Results

Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Greensburg	clay loam	no-till	15	5/17	178.2	n/a	3.39
Otterbein	silt loam	no-till	15	5/16	166.5	n/a	2.09
Windfall*	silty clay loam	conventional	15	5/25	175.1	n/a	1.69
Wingate	clay loam	no-till	15	5/16	184.5	n/a	1.33

Rainfall obtained on-site (*denoted) or estimated from *www.weatherplot.com*

Rich Schleuning, FIRST Manager

Soybean Stats:
Yield Range: 68.0-78.4 bu. per acre
Yield Average: 73.6 bu. per acre
Top $ Per Acre: $1,000

Soybean Field Notes: Indiana Central

Greensburg—This test site produced a nice yield and good grain quality, considering the season. With a good start, plants grew to a maximum of 49" in height. We had heavy pod set on the bottom half of stalks; some varieties had up to six pods per node. Harvest was slow, as the crop was lodged in one direction. The tall plant height, dense population and right conditions created a chance for good yields, but when taking grain samples, I would find a stink bug in the grain. In the area, the average bushels per acre ranged from the 50s to the mid-70s.

Otterbein—Emergence was good but extreme conditions the rest of May and in June shortened plant heights on some varieties. Plant heights, node spacing and total pods varied. Plants ranged from 29" to 41" tall. Node spacing on the bottom half of the stem was from 1.5" to 2" with three to five pods per node and two to three soybeans per pod. There was a vast range in the number of three-soybean pods, from 12 per stalk to 22. Light insect feeding and light stink bug damage were also present.

Windfall—With heavy rains in June, ponding slowed plant development. Plants ranged from 26" to 41" tall. There was some light hail damage at the second trifoliolate leaf stage. Crop emergence was good. There was evidence of light infestations of disease and insects damaging the crop. The presence of stink bugs was noticed. The soybeans per pod varied from one to three soybeans, with most of the three-soybean pods on the bottom half of the plant.

Wingate—What a surprise here, with yields averaging 90.9 bu. per acre. Crops elongated from the start with the first pod set 5" to 6" off the ground. Plants were up to 50" tall, which led to heavy lodging. Plant health was good but some varieties with green stems were hard to pull out of the ground. Seed size was good with the help of September rain. Insect pressure was present; this location had the most damage I have ever seen from stink bugs.

2.8-3.8 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)	Greensburg	Otterbein	Windfall	Wingate
LG Seeds	C3989R2	RR2Y	3.8	R	AC,PV	**78.4**	12.8	7	1000	71.7	47.2	**95.9**	98.6
Dairyland	DSR-3595/R2Y	RR2Y	3.5	R	CMB,O	**78.0**	12.6	7	995	74.2	49.6	89.9	98.4
Stine	29RD22 §	RR2Y	2.9	R	CMB	**77.8**	13.0	4	992	**78.2**	47.1	91.0	94.9
FS Hisoy	HS 31A32	RR2Y	3.1	R	CMB	77.4	12.3	4	987	75.9	45.4	90.7	97.7
Seed Consultants	SCS 9363RR	RR	3.6	R	EE,G	77.1	12.9	2	983	76.2	**51.2**	86.2	94.8
Specialty	3200CR2	RR2Y	3.2	MR	AC,PV	77.0	12.4	4	982	**78.8**	48.3	85.6	95.2
Specialty	3790CR2	RR2Y	3.7	R	AC,PV	76.9	12.8	5	980	72.2	47.6	91.0	96.8
Ebberts	2333RR2	RR2Y	3.3	MR	ACi	76.7	12.4	3	978	71.7	46.3	**96.5**	92.4
Steyer	3403R2	RR2Y	3.4	MR	SStd	76.6	12.2	4	977	77.9	48.2	91.8	88.5
Steyer	3205R2	RR2Y	3.2	MR	SStd	76.6	12.9	6	977	**80.0**	44.9	84.6	96.7
Great Lakes	GL3729R2	RR2Y	3.7	R	AC,PV	76.4	12.3	8	974	73.6	46.5	**92.3**	93.1
Dairyland	DSR-3232/R2Y	RR2Y	3.4	MR	CMB,O	76.2	12.9	3	972	77.0	48.1	87.5	92.2
Seed Consultants	SCS 9328RR	RR	3.2	S	EE,G	76.2	12.9	4	972	76.5	50.2	86.6	91.4
LG Seeds	C3466R2	RR2Y	3.4	R	AC,PV	76.1	12.7	3	970	77.6	45.2	87.4	94.0
Great Lakes	GL3229R2	RR2Y	3.2	R	AC,PV	76.0	12.5	3	969	75.9	44.3	89.5	94.4
NK Brand	S38-W4 §	RR2Y	3.8	R	CMBV	75.4	12.7	5	961	**78.1**	44.5	84.4	94.5
Steyer	3802R2	RR2Y	3.8	MR	SStd	75.3	13.1	3	960	73.8	**51.9**	82.5	93.1
Ebberts	2324RR2	RR2Y	3.2	MR	ACi	75.3	12.7	4	960	**78.0**	46.2	86.2	90.9
Ebberts	2383RR2	RR2Y	3.8	MR	ACi	75.3	13.0	4	960	73.1	47.7	88.1	92.3
NK Brand	S34-Z1 §	RR2Y	3.4	R	CMBV	75.1	13.1	3	957	72.2	44.1	86.2	97.8
Site Averages =						**73.6**	**12.6**	**4**	**939**	**73.6**	**46.0**	**84.0**	**90.9**
LSD (0.10) =						4.1	0.6	3		4.4	4.7	8.1	7.8

FIRST Mid-Atlantic Soybean Results

Site Information

Site	Soil Texture	Tillage	Row Width (in)	Planting Date	Stand	SCN Pop.	August Rain (in)
Hanover	silty clay loam	no-till	15	5/25	161.5	n/a	5.61
Middletown	sandy loam	no-till	15	5/27	168.0	n/a	3.94
Preston	sandy loam	no-till	15	5/27	187.2	n/a	4.28
Westminster	sandy clay loam	no-till	15	5/25	134.1	n/a	3.17

Rainfall obtained on-site (*denoted) or estimated from *www.weatherplot.com*

Rob Kauffman, FIRST Manager

Soybean Stats:
Yield Range: 68.2-80.3 bu. per acre
Yield Average: 74.1 bu. per acre
Top $ Per Acre: $1,025

Soybean Field Notes: Mid-Atlantic

Hanover—Soybeans looked great on this test all season long. They did not get too tall but they podded up well and stood nicely through harvest. A drier late August and early September allowed soybeans to stay disease-free. The average yield from this test was 74.5 bu. per acre. Overall, I would rate this test a 7 out of 10.

Middletown—The Middletown FIRST test was planted on May 27 and the soybeans started off fast. They got extremely tall; most varieties were 48" or taller. Pod set was good but spacing was quite far apart. There were two obstacles in this test. One was that lodging was very high and some varieties did not harvest well. The other was that we had some issues with sprayer tire tracks from the herbicide application. For these reasons, I would rate this test a 6 out of 10.

Preston—Spring started almost too wet here on the Preston FIRST test site. Heavy rain and cooler weather slowed plant development early on. Slugs were present and bait was applied. Overall stands were not affected by the slugs. Rain continued through the growing season but an additional 5" was applied through late summer and fall. Except for some irrigation tracks this was an excellent test. Overall, I would rate this test a 9 out of 10.

Westminster—The Westminster FIRST test had an excellent stand of soybeans that was no-till planted into corn residue on May 25. Weed control here was good. The soybean plants were extremely tall with only one variety having any lodging issues. Those issues were due to stem rot. No pod shattering was observed at this late harvest date. Pods were positioned high above the ground to make an easy harvest. This test had some very nice yields. Overall, I would rate this test an 8 out of 10.

3.4-4.1 Maturity Group — **Top 20 of 30 tested**

Company/ Brand	Product/ Brand	Technology	Maturity	SCN Resistance	Seed Treatment	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income ($/A)	Hanover	Middletown	Preston	Westminster
Channel	3506R2	RR2Y	3.5	R	ACi	**80.3**	11.9	2	1025	71.2	**85.8**	**82.2**	**82.0**
Hubner	H40-13R2	RR2Y	4.0	MR	AC,PV	**79.9**	11.8	1	1020	73.1	**85.5**	79.1	**81.9**
Mycogen	5N342R2	RR2Y	3.4	MR	CMB	79.1	12.1	2	1010	76.1	79.9	**83.1**	77.4
Channel	3806R2/STS	RR2Y,STS	3.8	MR	ACi	78.3	11.9	2	1000	76.8	**82.6**	76.0	77.9
Steyer	3802R2	RR2Y	3.8	MR	SStd	76.7	12.3	2	979	70.1	**84.2**	77.4	75.2
Hubner	H34-11R2	RR2Y	3.4	R	AC,PV	75.9	12.0	4	969	**80.9**	72.1	77.2	73.4
Mid-Atlantic	MAS3511RR2	RR2Y	3.5	R	AC	75.9	11.9	6	969	72.4	75.3	**87.0**	68.9
Hubner	H37-14R2/STS	RR2Y,STS	3.7	R	AC,PV	75.9	11.6	7	969	**81.4**	70.3	**81.8**	70.0
Mid-Atlantic	MAS3802NRR2	RR2Y	3.8	R	AC	75.8	12.5	11	968	77.0	79.3	76.3	70.5
Mid-Atlantic	MAS3889NRR2	RR2Y	3.8	R	AC	75.6	12.7	2	965	76.6	72.6	74.5	78.5
Dyna-Gro	S35RY83	RR2Y	3.5	R	ACi	75.1	11.9	4	959	73.1	74.6	77.7	75.1
Hubner	H36-14R2	RR2Y	3.6	R	AC,PV	75.1	12.0	4	959	71.1	75.8	75.8	77.5
Steyer	3702R2	RR2Y	3.7	MR	SStd	75.1	11.9	5	959	76.3	72.9	74.5	76.7
Mid-Atlantic	MAS3689NRR2	RR2Y	3.6	R	AC	74.8	12.2	4	955	77.6	73.6	71.5	76.3
Doeblers	RPM DB4013RR^	RR	4.0	R	DPHB	74.4	11.6	3	950	71.7	74.7	68.9	**82.1**
Pioneer	93Y91 GC	RR	3.9	R	None	74.2	11.7	3	948	77.2	66.8	73.7	79.0
Channel	3607R2	RR2Y	3.6	MR	ACi	74.1	12.0	3	946	74.5	71.9	76.7	73.2
Doeblers	RPM DB3513RR^	RR	3.5	R	DPHB	73.9	11.5	2	944	73.1	72.3	73.6	76.5
Asgrow	AG3931 GC	RR2Y	3.9	R	None	72.7	12.2	9	928	74.1	69.2	76.1	71.5
Mid-Atlantic	MAS3599RR	RR	3.5	S	AC	72.5	12.2	5	926	74.1	73.5	68.4	73.9
Site Averages =						**74.1**	**12.1**	**5**	**947**	**74.5**	**72.4**	**75.3**	**74.4**
LSD (0.10) =						5.6	0.3	6		3.9	7.9	6.3	7.5

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