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INSIDE
 Unbiased yield research for corn and soybean products tested near you. Find the *best* seed for your farm.
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2022 Performance Summary

Pennsylvania & Mid-Atlantic



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Mid Atlantic Independent Technology Service
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 Summary of the 2022 Season

We are proud to bring you this report presenting the top corn and soybean performances in FIRST's independent yield trials. FIRST is your trusted source for unbiased, accurate yield information about America's finest seed brands. Each hybrid and variety is tested at multiple locations with the best and most consistent performers appearing in this summary. For all the harvest reports and complete multi-year results for each product in the trials, visit us at www.firstseedtests.com.



FIRST Testing Methodology and Procedures

TESTING PROGRAM

Our testing program compares corn and soybean seed product yield and agronomic performance in grower fields across 16 states: Delaware, Illinois, Indiana, Iowa, Kansas, Kentucky, Maryland, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Pennsylvania, South Dakota and Wisconsin (Figure 1 & Figure 2).

Testing regions have been established to provide similarity by geography and crop maturity. Seed products within a predefined maturity range (e.g., 106 to 116 RM corn or 0.7 to 1.5 maturity soybeans) are pooled into a single, all-season test or split into early- and full-season tests depending on entry volume. Products are planted at five or six corn test locations or four soybean locations within a region.

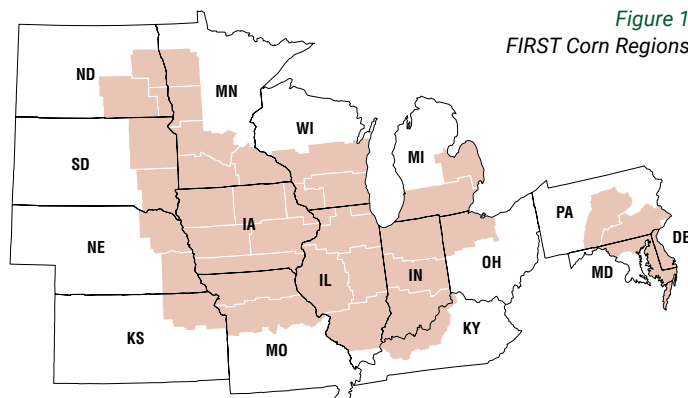


Figure 1
FIRST Corn Regions

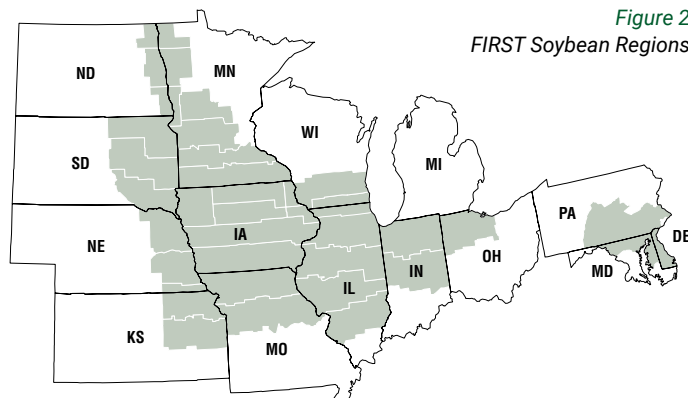


Figure 2
FIRST Soybean Regions

Test locations are selected to represent the geographic diversity within a region. Ideal sites have uniform, well-drained soils where farmer hosts use standard production practices for the area. Typically, all tests at a location are conducted adjacent to each other to minimize yield variance between tests.

Seed companies and/or seed distributors are invited to submit their most promising seed products within specified test maturity limits to desired test regions. They provide high-quality seed from commercial lots and fees to enter FIRST tests. The only exceptions are check products (CK after product names, i.e. A1234 CK), chosen by FIRST Managers to bridge results between early- and full-season tests, and Grower Comparison products (GC after the product name), often provided by host farmers for their knowledge as test space permits.

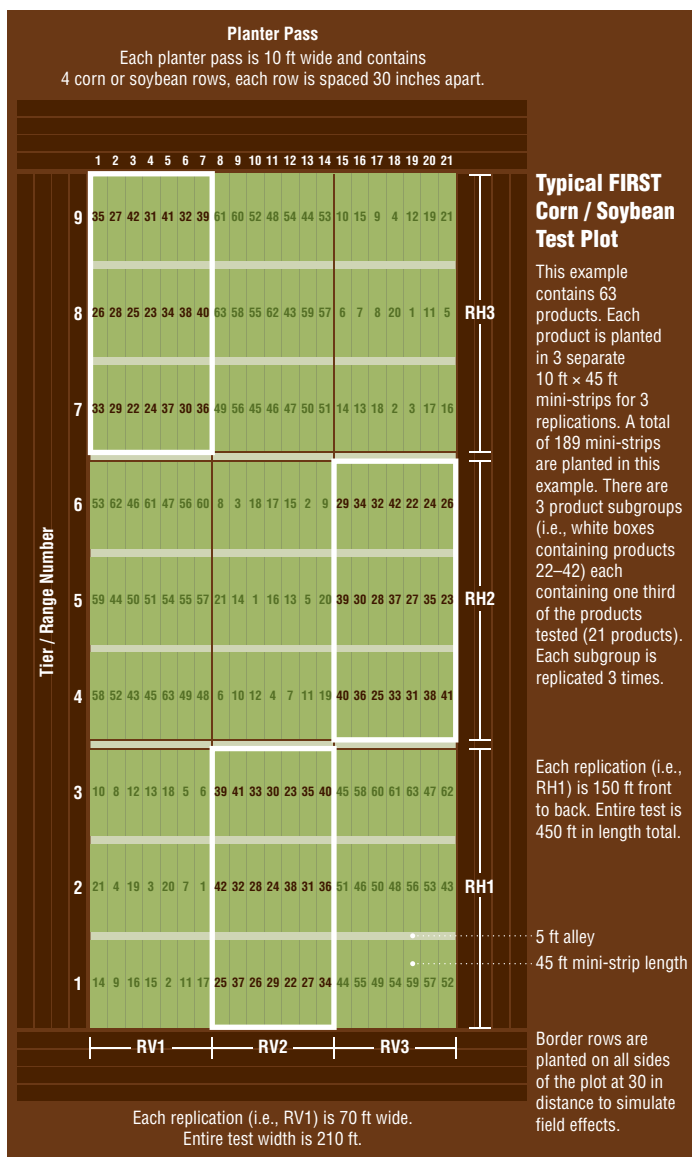
Products are replicated three times minimum per test and grouped in sub-blocks arranged in replication blocks from front to back and side to

side. This provides more precision in yield measurement and flexibility should a disruptive event (i.e., standing water) require elimination of non-uniform test areas.

FIRST Field Managers package, randomize, and plant seeds into host grower fields using slightly modified commercial planting equipment to facilitate mini strip research. Individual plots (a.k.a. mini-strips) contain four corn rows spaced 30-inches apart, 45 feet in length (Figure 3). Soybean is planted in four rows spaced 30-inches apart or seven 15-inch spaced rows. Soil insecticide is typically applied to corn at planting. Seeding rate is based on standard area practices.

FIRST Managers measure yield from the center two corn rows or all soybean rows using customized commercial self-propelled combines. Grain from each plot is electronically weighed and moisture content measured. Soybean grain is sampled from one replicate per test for protein and oil content analysis.

Figure 3 FIRST Test Plot Layout



PERFORMANCE SUMMARIES

FIRST *Corn Grain and Soybean Top 30 Harvest Reports* are designed to identify high-yielding products at a single location. These reports are posted to www.firstseedtests.com generally within 2 days of harvest and provide product information, yield and agronomic results.

The *Corn Grain and Soybean Top 30 Region Summary* reports (Figures 4 & 5) identify products that consistently deliver top performance across a region by averaging product results from all test locations. These corn and soybean regional reports display grain Yield (Bu/A), grain Moisture (%), Lodging (%) and Gross Income (\$/A) averaged over all locations, presented alongside individual site yield results. This report is available shortly after the last *Harvest Report* for a region becomes available at www.firstseedtests.com.

In both reports, products are first ranked by Gross Income (\$/A). The 30 highest ranked Gross Income (\$/A) products are sorted by Yield (Bu/A) for public presentation. Nearly all tests include more than 30 products but only the Top 30 products are reported.

Figure 4 Corn Grain Performance Summary

EARLY-SEASON TEST 93-98 Day CRM Top 30 of 56 tested											Results in BOLD are significantly above test average.				
Company/Brand	Product/Brand	Technology	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Ear Size	Oilend	Protein	Starch	Break		
DAIRYLAND	DS-38100	QR.B	98	230.2	18.3	1	\$784	4	264.6	238.8	165.2	216.1	274.5		
FEDERAL	4880 VT2PRB	VT2PB	98	229.4	17.4	1	\$784	4	261.3	228.1	180.0	245.8	231.8		
HEFTY	H432VT2PRB	VT2PB	93	229.2	17.0	1	\$788	2	243.5	236.0	201.3	220.9	244.1		
DAIRYLAND	DS-3550AM	AM.B	95	227.8	17.4	1	\$781	7	259.3	242.4	179.5	223.0	235.0		
JUNG	470R429	VT2PB	97	227.7	16.9	1	\$782	5	269.1	232.1	146.2	222.5	248.5		
NORTHSTAR	NS-98-513 STXRIB	STX.B	98	227.2	16.7	2	\$782	6	250.4	254.9	174.4	213.6	242.6		
THUNDER	T6098 VT2P	VT2PB	98	225.5	17.1	1	\$775	8	251.0	232.9	164.4	234.4	244.6		
PIONEER	P9690 GC	QR.B	96	224.3	17.0	1	\$771	10	257.9	235.5	176.7	222.7	234.0		
THUNDER	T6996 VT2P	VT2PB	96	223.9	16.7	1	\$772	9	248.3	238.2	153.9	226.0	253.3		
HEFTY	H4542VT2P	VT2P	95	223.1	16.1	1	\$771	11	257.8	238.4	155.4	215.3	248.3		
LATHAM	LH-4657 VT2P RIB	VT2PB	96	222.6	16.8	1	\$767	12	264.9	236.2	153.5	222.5	236.1		
HEFTY	H4612VT2P	VT2PB	96	222.3	16.6	1	\$766	13	252.9	245.9	150.5	235.9	228.0		
INTEGRA	4601 VT2P	VT2P	96	222.2	16.8	2	\$765	14	244.1	231.6	152.8	234.1	248.2		

Figure 5 Soybean Performance Summary

ALL-SEASON TEST MATURITY GROUP 1.8-2.5 Top 30 of 72 tested											Results in BOLD are significantly above test average.				
Company/Brand	Product/Brand	Technology	Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Arlington	Oregon	Pennville	Warrenton				
CREDENZ	CZ-2121 GTLL GC	LLGT27	2.1	68.8	11.1	6	\$619	72.8	61.8	73.9	66.8				
FS WISDY	HS-2488B	RRX	2.2	67.6	10.8	7	\$599	68.1	70.5	61.1	64.8				
GENESIS	G2190GL	LLGT27	2.1	67.5	10.9	8	\$607	73.0	61.7	73.7	61.6				
GOLDEN HARVEST	GH2230X	RRX	2.2	66.8	11.0	6	\$602	64.7	66.9	70.4	65.3				
TITAN PRO	T-20E495	E3	2.2	66.7	11.3	8	\$600	65.3	62.4	72.5	66.5				
PIONEER	P23A15X U	RRX	2.3	66.6	11.0	8	\$600	67.9	63.4	65.7	69.5				
CREDENZ	CZ-2040 GTLL GC	LLGT27	2.0	66.4	10.8	6	\$598	71.7	65.8	69.5	58.7				
GENESIS	G235FE	E3	2.5	66.4	11.1	8	\$598	70.2	62.9	68.9	63.7				
LATHAM	L-2549 RZX	RRX	2.5	66.1	10.8	7	\$595	70.6	64.9	67.3	61.5				
LATHAM	L-2295 RZX	RRX	2.2	65.9	10.6	9	\$594	69.2	62.9	70.4	61.2				
GENESIS	G235DE	E3	2.3	65.8	11.1	8	\$592	64.0	64.2	67.9	67.1				
DAIRYLAND	DSR-2590E	E3	2.5	65.8	11.6	12	\$592	62.4	68.2	69.4	63.1				
ASROW	AS20W3 U	RRX	2.0	65.7	10.9	12	\$591	67.6	62.0	67.0	66.2				

PERFORMANCE MEASUREMENTS

- A Yield (Bu/A)** – Harvested grain weight and grain moisture are used to convert yield results to bushels per acre at 15% moisture (base moisture) for corn and 13% moisture for soybean. Grain shrinkage is additionally applied to product yields exceeding the base moisture.
- B Moisture (%)** – A calibrated electronic sensor measures moisture content of harvested grain.
- C Lodging (%)** – Estimated percentage of corn plants leaning more than 45° from vertical or stalks broken below the ear at harvest. Encompasses both stalk and root lodging. Estimated soybean plant leaning (0% = all plants vertical, 100% = all plants flat on the ground).
- D Gross Income (\$/A)** – Harvested crop value in dollars per acre is derived by multiplying crop yield and price per bushel minus drying costs, if any, to reach base moisture. Each Harvest Report and Performance Summary details specific crop price and drying costs.
- E Gross Income Rank** – Gross Income values are sorted from high to low then numbered consecutively (1, 2, 3...) from highest to lowest value. Ties are broken based on higher yield, lower lodging and lower moisture values.

For more yield results visit www.firstseedtests.com
FIRST does not make product endorsements.

STATISTICS REPORTED

Least Significant Difference (LSD) is provided on all replicated results to facilitate valid product comparisons. Statistically, the LSD value is the minimum difference needed between two products to declare that one product is greater than another. FIRST calculates LSD at the 10% level (p = 0.10). Product yield differences equal or greater than the LSD (0.10) value would have been greater one versus the other nine times out of 10 (90% probability). Typically, low LSD values indicate high-quality test results. However, keep in mind that LSD values increase as: test yield level increases, p values decrease [i.e. LSD (0.05) value > LSD (0.10) value > LSD (0.25) value] and as data variability increases. Just because LSD values are higher in some tests vs. others does not mean the results are low quality. Multiple factors have a role in LSD value magnitude.

Coefficient of Variance (CV) measures the average difference between the replications of a test entry, averaged for all the entries in the test, then divided by the average of all observations recorded and expressed as a percentage. Higher values indicate more unexplained variability in proportion to the test average than lower values. Researchers within the seed industry may drop yield data from consideration when CV's are above 15% because the unexplained variance is high or the yield level is low or both. Low yield levels at a test site do not estimate yield potential well, nor are there as many or as great a difference between hybrids and varieties compared to higher yield conditions.

Data Rejected – If a data table has “Data Rejected” stamped across it, we have deemed this data is highly variable and of very poor quality, typically due to weather or uncontrolled factors. Rejection decisions are based on statistical analysis of yield results. Data with very high CV and/or low F-test values (the ratio of variability between entry averages divided by the variability between entry replications) are often rejected.

OTHER INFORMATION

Estimated Maturity (corn only) – Product maturity is determined by linear regression comparison of harvest grain moisture and company stated relative maturity (RM). Products with estimated maturity exceeding the test maximum by at least 1 RM are identified in italics. These products may have an unfair yield advantage over peers due to later maturity.

Bold Identified Means – These product means are significantly better than the test average for that measured parameter.

Check Product (CK) – When early- and full-season tests are conducted at a site, an identical check product is planted in both tests. Check yield results allow growers to comparatively view product performance in both early- and full-season tests. No product yield adjustments are made based on check performance.

Grower Comparison (GC) products – These products, identified with a “GC” product name suffix, are often supplied by growers hosting test sites and included when space permits. Grower comparison products allow direct comparison to products in our tests.

United Soybean Board (USB) Products (soybean only) – Products identified with a “S” product name suffix are funded by soybean checkoff dollars. This program strives to gather yield and grain composition results from genetics that otherwise would not be available.

TECHNOLOGY CODE LEGEND

Product Suffix Key

CK	Check product found in early- and full- season tests
GC	Grower Comparison product from farmer cooperators or field manager
§	United Soybean Board sponsored entry

Corn Seed Technology Key

CODE	DESCRIPTION
3010	Agrisure® 3010 (GT,CB,LL), formerly GT/CB/LL
3011	Agrisure® 3011 (CB,RW,LL,GT)
3110	Agrisure® Viptera® 3110 (Vip, CB,LL,GT)
3111	Agrisure® Viptera® 3111 (Vip,CB,RW,LL,GT)
A	Agrisure® Artesian®
AT	Agrisure® Total (CB,HXX,RW,LL,GT), formerly Agrisure® 3122
AM	Optimum® AcreMax® (YGCB,HX,LL,RR2)
AM1	Optimum® AcreMax® 1 (HXT,LL,RR2)
AML	Optimum® AcreMax® Leptra (Vip,YGCB,HX,LL,RR2)
AQ	Optimum® AQUAmax®
CONV	conventional corn
D	Duracade™ (CB,HX,RW,RW2,LL,GT), formerly Agrisure Duracade® 5122
DV	DuracadeViptera™ (Vip,CB,HX,RW,RW2,LL,GT), formerly Agrisure Duracade® 5222
DVZ	DuracadeViptera™ Z3 (Vip,CB,VTP,RW,RW2,LL,GT), formerly Agrisure Duracade® 5332
DG	DroughtGard®
E	Enlist™ (2,4-D, glyphosate, fop tolerance)
GT	Agrisure® GT
GTA	Agrisure® GTA
PC	PowerCore™ (HX,VT2P)
QR	Qrome™
RR2	Roundup Ready® 2 Corn
STX	SmartStax® (VT3PHXX)

STXP	SmartStax® PRO (VT3PHXX)
TRE	Trecepta®
VT2P	VT Double PRO®
V	Viptera™ (Vip,CB,HX,LL,GT), formerly Agrisure Viptera® 3220

Soybean Seed Technology Key

CODE	DESCRIPTION
CONV	Conventional
E3	Enlist E3® (2,4-D, choline, glyphosate, LL)
LLGT27	LibertyLink® GT27®
RR	glyphosate tolerant (formerly Roundup Ready)
RR2Y	Roundup Ready 2 Yield®
RRX	Roundup Ready 2 Xtend®
RXF	Roundup Ready 2 XtendFlex®
ST	Sulfonylurea tolerant

Soybean Cyst Nematode (SCN) Resistance Rating

CODE	SOYBEAN CYST NEMATODE DESCRIPTION
NA	information is not available
S	susceptible
MR	moderate resistance
R	resistant

FIRST would like to thank the United Soybean Board for support and funding for the soybean entry and quality reporting program.

PRODUCTS TESTED



For the complete list of products, visit www.firstseedtests.com/archive/national-summary-reports/2022-program-guide/

CORN REGIONS: PACE, PASE, DMNO



Site Description: PACE (See corn results table on page 6)

Site	FIRST Farmers	Soil Texture	Tillage	Previous Crop	Total Nitrogen (lbs)	Date Planted	Date Harvested	Average		Yield History		
								Stand × 1,000	Yield	Bu/A	Years	
Centre Hall	Wade Wolfe	silt loam	no-till	soybeans	155	23-May	9-Nov	30.9	186.9	184.9	18	
Danville	Rich & Stan Crone	silt loam	minimum	corn	202	30-May	2-Nov	29.5	235.4	187.3	19	
Martinsburg	Marcus Martin	silt loam	no-till	soybeans	205	17-May	3-Nov	30.8	221.4	181.1	20	
McVeytown	Charles Groff	sandy loam	conventional	corn	153	26-May	19-Nov	31.5	179.5	173.3	15	
Northumberland	Scott Shoop	silt loam	no-till	soybeans	210	30-May	5-Dec	31.8	229.2	208.0	17	
Ringtown	Scott Careyva	silt loam	no-till	soybeans	205	16-May	21-Nov	31.0	242.3	234.3	13	
									PACE	176.8	20	

Site Description: PASE (See corn results table on page 6)

Site	FIRST Farmers	Soil Texture	Tillage	Previous Crop	Total Nitrogen (lbs)	Date Planted	Date Harvested	Average		Yield History		
								Stand × 1,000	Yield	Bu/A	Years	
Elverson	Dave Mast	loam	no-till	soybeans, rye cover crop	207	18-May	15-Oct	32.1	288.5	199.9	21	
Kutztown	Jon Stutzman	silt loam	no-till	wheat, cover crop	268	24-May	14-Nov	32.0	235.5	216.7	19	
Lebanon	Steve Wenger	silt loam	conventional	corn, 2+ yr	200	2-May	23-Sep	–	–	205.1	19	
Mechanicsburg	Daryl Alger	silt loam	no-till	soybeans	240	14-May	29-Oct	33.7	204.9	279.3	3	
Mount Joy	John Conley	silt loam	no-till	timothy	165	25-May	20-Oct	28.4	229.7	185.2	4	
Spring Grove	Jim Bange	silt loam	minimum	corn	218	31-May	8-Oct	30.9	210.1	216.1	14	
									PASE	191.8	20	

Site Description: DMNO (See corn results table on page 7)

Site	FIRST Farmers	Soil Texture	Tillage	Previous Crop	Total Nitrogen (lbs)	Date Planted	Date Harvested	Average		Yield History		
								Stand × 1,000	Yield	Bu/A	Years	
Bridgeville	Ken Arney	sandy loam	conventional	soybeans	212	10-May	29-Sep	32.6	256.9	217.9	18	
Chestertown	Tom Mason	silt loam	minimum	corn, 2+ yr	198	21-May	12-Oct	32.6	222.2	180.5	13	
Middletown	Bill Alfree	silt loam	conventional	soybeans	229	5-May	11-Oct	32.6	146.9	203.4	19	
Princess Anne	Roger Richardson	sandy loam	minimum	soybeans	120	11-May	26-Sep	32.4	185.3	–	new site	
Upperco	Doug Armacost	loam	no-till	soybeans	234	1-Jun	18-Nov	32.6	212.6	–	new site	
Warwick	Jonathan Quinn	silt loam	no-till	soybeans	195	31-May	22-Oct	32.4	163.3	182.7	20	
									DMNO	178.3	20	

CORN REGIONAL ANNUAL YIELD AVERAGES FOR 2018–2022

FIRST Region	Average Yield by Year (Bu/A)					Since Inception	
	2022	2021	2020	2019	2018	Bu/A	#Years
PACE	215.7	233.0	191.2	215.0	173.4	176.8	20
PASE	233.7	261.4	229.6	246.8	207.3	191.8	20
DMNO	197.8	222.1	216.2	208.2	185.0	178.3	20

Corn Results: PACE (See site description on page 5)

ALL-SEASON TEST 102-112 Day CRM Top 30 of 47 tested									Results in BOLD are significantly above test average.					
Company/ Brand	Product/ Brand	Technology	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Centre Hall	Danville	Martinsburg	McVeytown	Northumberland	Ringtown
Dyna-Gro	D50VC09RIB	VT2P	110	235.7	23.5	1	\$1,695	1	210.6	266.2	239.7	193.1	233.6	271.2
Mid-Atlantic	MA8110	TRE	111	233.6	24.7	1	\$1,673	2	200.7	245.7	253.5	191.9	239.9	269.6
Pioneer	P0732Q GC	QR	107	228.6	22.3	1	\$1,651	3	188.7	248.7	240.4	172.0	254.2	267.7
Seedway	SW 1021VT	VT2P	110	224.9	23.6	1	\$1,616	4	206.4	238.8	228.7	185.3	233.5	256.8
Seed Consultants	SC1112AM	AM	111	224.0	26.0	1	\$1,596	8	187.5	237.1	221.8	191.9	249.4	256.7
Seed Consultants	SC1053AM	AM	105	223.3	22.0	2	\$1,615	5	196.8	238.1	234.4	200.2	222.1	248.3
DeKalb	DKC58-64RIB GC	STX	108	223.0	23.3	2	\$1,604	7	197.3	230.6	221.3	188.5	238.5	262.0
Seedway	SW 6540VT	VT2P	109	222.0	23.4	3	\$1,596	9	196.5	251.2	219.6	179.2	247.1	238.5
Chemgro	6535RDD	VT2PDG	105	221.7	20.2	2	\$1,611	6	176.4	254.8	201.5	192.7	245.6	259.5
Augusta	A1961 TRE	TRE	111	221.4	23.7	2	\$1,590	11	194.3	253.6	217.9	179.6	232.3	250.5
Revere	0918 SXRIB	STX	109	221.2	22.9	2	\$1,594	10	184.5	236.3	210.8	214.1	242.4	239.3
Seed Consultants	SC1071AM	AM	107	220.7	23.6	2	\$1,585	12	192.4	248.7	211.6	175.8	244.3	251.6
Chemgro	7035RDP	VT2P	110	219.6	22.8	1	\$1,583	13	188.5	234.5	236.4	178.3	218.7	261.1
Augusta	A1560 VT2P	VT2P	110	218.8	22.9	1	\$1,577	14	181.2	238.3	231.7	177.4	230.8	253.2
Hefty	H6064	STX	110	218.7	24.9	1	\$1,565	18	193.3	221.7	228.2	180.0	239.9	248.8
Hefty	H5764	STXP	107	217.9	22.8	1	\$1,571	16	179.6	232.9	229.0	191.3	233.2	241.3
Augusta	A1962 DGV2P	VT2P	112	217.7	27.3	1	\$1,544	26	174.9	249.6	213.9	185.4	244.6	238.1
Augusta	A1359 VT2P	VT2P	108	217.5	25.9	2	\$1,551	23	196.4	245.4	223.1	168.7	229.2	242.0
Pioneer	P0924Q GC	QR	109	217.3	23.4	1	\$1,563	20	181.2	244.1	221.1	186.1	220.2	250.9
Augusta	A4463 VT2P	VT2P	113	216.8	24.5	2	\$1,553	22	191.2	236.1	229.1	175.8	239.6	229.3
DeKalb	DKC59-82RIB GC	VT2P	109	216.1	21.1	2	\$1,566	17	202.5	226.6	210.5	176.6	233.6	246.7
Revere	0297 VT2PRIB	VT2P	102	215.8	19.8	2	\$1,572	15	190.4	227.6	236.2	167.4	228.2	245.1
Mid-Atlantic	MA8108	VT2P	110	215.8	22.8	1	\$1,556	21	184.7	227.0	223.3	180.8	224.1	255.0
Seedway	SW 0606VT	VT2P	106	214.6	19.5	2	\$1,564	19	181.3	233.4	205.3	200.5	232.5	234.5
Hubner	H6390RCSS	STX	108	214.4	22.8	2	\$1,545	25	185.8	236.4	212.4	195.3	228.1	228.4
Chemgro	6725RDP	VT2P	107	214.4	24.0	1	\$1,538	27	197.1	254.2	235.4	144.1	234.1	221.3
Mid-Atlantic	MA8128	VT2P	112	214.3	24.3	1	\$1,536	28	192.3	237.4	206.5	178.1	229.9	241.5
Revere	0518 VT2PRIB	VT2P	105	213.3	20.5	4	\$1,549	24	198.5	226.5	201.0	173.0	228.4	252.2
Hefty	H5944	STX	109	211.5	22.0	1	\$1,528	30	181.5	231.9	213.6	175.5	230.0	236.5
Hubner	H6287RCSS	STX	104	209.3	18.9	4	\$1,529	29	194.7	218.0	214.1	198.6	205.9	224.6
Averages =				215.9	23.3	1	\$1,554		186.9	235.4	221.4	179.5	229.2	242.3
LSD (0.10) =				8.3	0.9	1			14.3	12.4	15.5	16.9	12.7	14.4

Corn Results: PASE (See site description on page 5)

ALL-SEASON TEST 105-115 Day CRM Top 30 of 54 tested									Results in BOLD are significantly above test average.					
Company/ Brand	Product/ Brand	Technology	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Elverson	Kutztown	Lebanon [#]	Mechanicsburg	Mount Joy	Spring Grove
DeKalb	DKC61-41RIB GC	VT2P	111	253.0	23.3	1	\$1,845	2	293.2	251.1	180.3	252.6	238.1	229.9
Revere	1307 TCRIB	TRE	113	252.5	22.2	1	\$1,846	1	304.3	274.4	206.2	206.9	248.8	228.4
Pioneer	P1136AM GC	AM	111	252.2	22.6	2	\$1,843	3	294.5	243.4	120.6	241.3	247.4	234.6
Chemgro	7335RDD	VT2PDG	113	249.9	22.7	0	\$1,826	4	302.1	250.1	174.8	243.5	237.5	216.1
Hubner	H6663RCSS	STX	113	248.9	26.0	0	\$1,801	5	306.0	250.4	166.6	247.4	235.8	204.9
Seed Consultants	SC1093AM	AM	109	247.2	23.9	1	\$1,797	6	302.9	257.7	121.0	207.1	245.8	222.4
Hefty	H6354	STX	113	243.9	23.0	1	\$1,781	7	282.9	256.0	199.7	232.0	232.9	215.8
Augusta	A4463 VT2P	VT2P	113	243.2	22.8	1	\$1,778	8	288.0	248.2	152.8	248.5	217.8	213.4
Mid-Atlantic	MA8136	VT2PDG	113	242.7	23.7	1	\$1,767	10	299.1	233.1	147.9	235.5	224.9	220.7
Revere	1577 VT2PRIB	VT2P	115	242.4	23.2	1	\$1,765	12	293.3	245.5	176.7	207.3	236.2	229.8
Seedway	SW 1021VT	VT2P	110	241.8	22.3	2	\$1,768	9	306.0	214.8	191.5	219.2	242.8	226.2
Chemgro	6929RSX	STX	109	241.5	21.8	1	\$1,767	11	293.1	242.3	185.3	202.1	231.2	239.0
Augusta	A1961 TRE	TRE	111	241.3	22.9	1	\$1,760	13	299.3	239.7	159.6	215.5	228.5	223.6
Revere	1398 VT2PRIB	VT2P	113	240.9	23.5	1	\$1,754	15	296.0	243.4	162.8	221.8	228.4	214.9
Mid-Atlantic	MA8145	VT2P	114	240.8	24.1	1	\$1,754	16	296.4	251.8	145.7	226.4	240.0	189.5
Augusta	A1964-3110	3110	114	240.4	25.9	1	\$1,737	21	300.4	251.2	123.5	210.7	230.5	209.3
Axis	59R27RIB GC	VT2P	111	240.1	22.2	2	\$1,756	14	309.3	238.5	147.7	197.1	248.0	207.8
Augusta	A1359 VT2P	VT2P	108	239.8	22.3	3	\$1,752	18	301.8	241.1	99.2	190.9	245.4	219.7
Chemgro	6725RDP	VT2P	107	239.5	21.6	2	\$1,753	17	308.3	238.2	168.3	191.4	232.5	224.4
Hefty	H6524 RIB	STX	115	239.4	25.2	1	\$1,737	22	290.0	252.8	163.2	228.9	230.1	195.4
NK Brand	NK1082-DV	DV	110	239.3	23.9	2	\$1,739	20	293.0	260.6	166.9	189.6	235.4	218.1
Mid-Atlantic	MA8110	TRE	111	238.5	22.4	1	\$1,741	19	290.2	252.5	123.4	194.5	227.3	227.9
Augusta	A1259-5222	DV	109	238.2	24.2	2	\$1,729	24	310.9	275.0	164.2	177.9	229.6	197.5
Hubner	H1330S	STX	113	238.1	24.9	1	\$1,728	26	289.5	243.7	163.9	217.7	236.7	202.9
DeKalb	DKC59-82RIB GC	VT2P	109	235.9	21.7	2	\$1,729	25	287.6	240.1	164.3	190.9	256.0	205.2
Revere	0707 DGV2PRIB	VT2PDG	107	235.6	20.7	1	\$1,730	23	292.5	224.6	185.7	190.1	249.9	220.8
Augusta	A3363 VT2PDG	VT2PDG	113	235.5	24.8	1	\$1,706	29	282.9	242.4	204.1	197.6	244.1	210.3
Seedway	SW 1345TR	TRE	113	234.6	22.8	1	\$1,711	27	282.4	240.8	144.8	201.8	227.2	220.8
Hubner	H6390RCSS	STX	108	234.2	22.5	1	\$1,711	28	278.8	251.8	167.9	202.1	224.5	214.0
Chemgro	6815RDP	VT2P	108	233.0	21.9	1	\$1,705	30	279.0	241.7	145.3	207.9	216.5	219.9
Averages =				233.7	23.2	1	\$1,691		288.5	235.5	161.0	204.9	229.7	210.1
LSD (0.10) =				11.6	1.2	1.5			15.8	26.4	37.4	22.5	11.3	16.9

[#]Lebanon results rejected due to yield variability, not included in summary average.

Corn Results: **DMNO** (See site description on page 5)

ALL-SEASON TEST 106-116 Day CRM | Top 30 of 48 tested

Results in **BOLD** are significantly above test average.

Company/ Brand	Product/ Brand	Technology	Relative Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Gross Income Rank	Bridgeville	Chester town	Middletown	Princess Anne	Upperco	Warwick
Mid-Atlantic	MA8136	VT2PDG	113	215.9	16.7	12	\$1,501	1	279.4	240.1	172.2	202.2	230.4	170.9
Revere	1577 VT2PRIB	VT2P	115	214.1	16.7	8	\$1,486	2	266.4	247.3	157.9	200.5	221.9	190.4
Augusta	A3363 VT2PDG	VT2PDG	113	209.3	16.8	13	\$1,460	3	275.8	218.2	151.7	199.5	235.7	175.1
Mid-Atlantic	MA8110	TRE	111	208.4	16.0	11	\$1,452	4	282.7	236.3	174.6	189.9	207.0	160.0
Golden Harvest	G15J91-V	V	115	207.3	18.0	6	\$1,433	6	240.6	241.0	159.5	182.5	230.4	190.0
Augusta	A1964-3110	3110	114	207.2	17.0	8	\$1,441	5	258.0	223.7	153.5	194.9	246.1	166.9
Augusta	A1961 TRE	TRE	111	205.0	15.6	10	\$1,431	7	256.7	229.3	153.1	195.3	233.7	161.9
Revere	1125 SSX	STX	111	204.8	16.4	9	\$1,426	9	255.5	227.8	161.7	182.3	239.3	161.9
Revere	1307 TCRIB	TRE	113	204.7	15.9	11	\$1,428	8	268.0	229.0	168.7	181.9	217.8	162.8
Revere	1525 V	V	115	203.9	18.3	6	\$1,408	16	238.4	234.6	164.8	178.9	234.7	171.8
Augusta	A7162 VT2P	VT2P	112	203.8	16.7	14	\$1,420	11	251.5	222.8	144.0	195.7	215.4	193.7
Chemgro	7525RDP	VT2P	115	203.7	17.9	9	\$1,411	14	245.8	224.6	173.9	187.7	221.9	168.1
Axis	59R27RIB GC	VT2P	111	203.5	16.3	14	\$1,420	10	254.0	215.0	135.0	184.1	214.4	218.2
Augusta	A1465 VT2P	VT2P	112	203.1	16.8	12	\$1,412	13	276.6	227.5	139.1	176.1	209.1	189.9
Hubner	H4828RC2P	VT2P	116	203.0	17.1	11	\$1,413	12	262.0	218.8	165.1	190.2	202.3	179.8
Seed Consultants	SC1122Q	QR	112	202.6	16.6	11	\$1,409	15	255.8	229.6	133.4	171.5	236.6	188.8
Augusta	A7168 VT2P	VT2P	116	202.3	18.7	6	\$1,401	20	259.8	212.7	159.7	191.4	210.4	180.1
Great Heart	HT-7541TRE	TRE	115	202.0	17.4	14	\$1,404	18	264.5	216.5	129.8	198.6	218.2	184.4
MorCorn	MC 4311	TRE	113	201.7	16.1	9	\$1,407	17	276.1	220.4	164.4	194.1	211.0	144.3
Pioneer	P0924Q GC	QR	109	201.1	16.0	11	\$1,395	22	262.0	249.4	157.6	174.9	212.0	150.6
Seed Consultants	SC1093AM	AM	109	200.7	16.0	10	\$1,403	19	259.9	212.9	145.9	182.2	235.7	167.7
Hubner	H1880D	VT2P	118	200.1	17.7	15	\$1,386	24	267.8	226.2	115.2	194.5	224.4	172.7
Revere	0707 DGVT2PRIB	VT2PDG	107	199.4	15.6	8	\$1,395	21	255.3	208.7	172.3	198.8	200.1	161.3
Chemgro	7505RDP	VT2P	115	199.4	16.9	6	\$1,385	25	252.7	225.5	164.2	186.2	189.8	178.1
Golden Harvest	G10L16-DV	DV	110	198.8	16.0	9	\$1,390	23	241.0	209.4	178.8	185.0	245.2	133.4
NK Brand	NK1082-DV	DV	110	198.4	16.4	8	\$1,381	26	233.9	222.5	165.8	181.2	233.2	153.7
Pioneer	P1136AM GC	AM	111	197.7	16.1	17	\$1,378	27	262.8	220.1	134.9	183.1	238.5	146.8
DeKalb	DKC61-41RIB GC	VT2P	111	197.5	15.9	15	\$1,377	28	272.7	221.5	134.7	187.4	204.3	164.4
Hubner	H09G056	VT2PDG	109	196.6	15.7	17	\$1,374	29	271.9	210.8	134.8	191.0	201.8	169.0
Great Heart	HT-7499TRE	TRE	114	196.5	17.2	10	\$1,358	30	264.1	240.1	139.1	182.1	185.2	168.3
Averages =				197.8	16.5	11	\$1,376		256.9	222.2	146.7	185.3	213.6	162.9
LSD (0.10) =				13.4	0.5	6.7			15.4	18.6	19.7	11.8	19.2	16.7

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Site Description: PACE (See corn silage results table on page 9)

Site	FIRST Farmers	Soil Texture	Tillage	Previous Crop	Total Nitrogen (lbs)	Date Planted	Date Harvested	Average			
								Stand × 1,000	Yield (ton/ac)	Milk/Ton DM (lbs)	Milk/Ac (lbs)
Centre Hall	Wade Wolfe	silt loam	no-till	soybeans	155	23-May	28-Sep	31.7	20.6	3,760	27,532
Martinsburg	Gerald Smith	silt loam	no-till	corn	194	17-May	19-Sep	31.7	24.5	3,602	31,641
McVeytown	Charles Groff	silty clay loam	conventional	barley	200	26-May	31-Aug	31.7	17.2	3,191	19,645
New Bloomfield	Steve Adams	silt loam	no-till	corn, 2+ yr	190	3-Jun	24-Sep	30.7	22.0	3,505	27,822

Site Description: PASE (See corn silage results table on page 9)

Site	FIRST Farmers	Soil Texture	Tillage	Previous Crop	Total Nitrogen (lbs)	Date Planted	Date Harvested	Average			
								Stand × 1,000	Yield (ton/ac)	Milk/Ton DM (lbs)	Milk/Ac (lbs)
Greencastle	Steve Rudolf	silt loam	minimum	soybeans	216	13-May	3-Sep	31.0	22.7	3,535	28,637
Lebanon	Frank Graybill	silt loam	no-till	corn, 2+ yr	186	3-May	1-Sep	33.1	17.3	3,031	18,883
Mount Joy	Mike Brubaker	silt loam	minimum	corn, 2+ yr	198	27-May	10-Sep	30.8	21.2	3,598	26,902
Nottingham	Alan and Paul Mason	silt loam	no-till	corn, 2+ yr	180	25-May	15-Sep	30.5	21.6	3,473	26,978





Site Description: PASE (See soybean results table on page 11)

Site	FIRST Farmers	Soil Texture	Tillage	Previous Crop	Total Nitrogen (lbs)	Date Planted	Date Harvested	Average		Yield History	
								Stand × 1,000	Yield	Bu/A	Years
Duncannon	Glenn Ebersole	silt loam	conventional	corn	NULL	10-Jun	24-Nov	151.0	47.8	64.1	2
Martinsburg	Jim Smith	silt loam	conventional	corn	NULL	8-Jun	23-Nov	154.2	68.4	60.7	8
Mount Joy	Curt & Mike Buckwalter	silt loam	no-till	corn	18.0	6-Jun	21-Oct	155.0	74.0	71.0	7
Northumberland	Scott Shoop	silt loam	no-till	corn	NULL	10-Jun	21-Nov	149.0	65.8	57.3	8
									PASE	62.5	9

Site Description: DMNO (See soybean results table on page 11)

Site	FIRST Farmers	Soil Texture	Tillage	Previous Crop	Total Nitrogen (lbs)	Date Planted	Date Harvested	Average		Yield History	
								Stand × 1,000	Yield	Bu/A	Years
Chestertown	Tom Mason	silt loam	minimum	corn, rye cover crop	NULL	15-Jun	13-Dec	160.0	73.7	48.7	5
Preston	Roger Schmick	silt loam	no-till	grain sorghum	NULL	15-Jun	5-Nov	160.0	51.5	59.7	12
Princess Anne	Kevin Anderson	silt loam	no-till	corn/barley	NULL	16-Jun	12-Dec	159.3	55.7	74.9	1
Upperco	Doug Armacost	loam	no-till	corn	25.0	16-Jun	26-Nov	149.1	44.7	–	new site
									DMNO	59.9	9

SOYBEAN REGIONAL ANNUAL YIELD AVERAGES FOR 2018–2022

FIRST Region	Average Yield by Year (Bu/A)					Since Inception	
	2022	2021	2020	2019	2018	Bu/A	#Years
PASE	63.9	71.4	70.5	61.2	40.6	62.5	9
DMNO	56.6	63.1	65.6	53.9	55.0	59.9	9

Soybean Results: PASE (See site description on page 10)

ALL-SEASON TEST MATURITY GROUP 2.8-3.8 Top 30 of 54 tested								Results in BOLD are significantly above test average.			
Company/ Brand	Product/ Brand	Technology	Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Duncannon	Martinsburg	Mount Joy	Northumberland
Xitavo	XO 3861E	E3	3.8	68.6	11.3	3	\$939	49.6	70.2	86.7	67.8
Stine	32EE21 U	E3	3.2	68.6	10.3	4	\$941	56.9	69.9	72.3	75.2
Mid-Atlantic	MAS3220E3	E3	3.2	68.5	11.0	5	\$938	46.1	77.4	82.8	67.5
Xitavo	XO 3803E	E3,ST	3.8	68.4	11.2	3	\$938	56.4	68.7	77.1	71.5
NK Brand	NK30-U4XF U	RXF	3.0	67.9	10.7	3	\$931	49.8	72.4	78.9	70.6
Hubner	H35-31XF	RXF	3.5	67.9	10.9	2	\$930	47.7	70.8	85.5	67.6
Seedway	SG 3393E3	E3	3.3	67.8	11.0	6	\$930	53.4	76.2	76.4	65.3
Chemgro	C3354E	E3	3.3	67.7	10.7	4	\$927	51.7	70.1	77.7	71.1
Mid-Atlantic	MAS3884GT/LL	LLGT27	3.8	67.4	11.8	11	\$923	51.9	75.0	81.2	61.6
Xitavo	XO 3131E	E3	3.1	67.0	10.7	4	\$919	50.6	73.6	79.6	64.4
Chemgro	C3655E	E3	3.6	67.0	10.8	3	\$918	50.4	66.9	77.7	72.9
Seed Consultants	SC 7332E	E3	3.3	66.8	10.7	3	\$917	52.6	75.9	71.2	67.6
Zinesto	Z3203E	E3	3.2	66.8	10.6	2	\$916	45.0	74.7	79.1	68.5
Asgrow	AG33XF3 U	RXF	3.3	66.7	10.8	4	\$914	47.9	67.2	78.1	73.7
Seedway	SG 3442XTF	RXF	3.4	66.3	10.3	5	\$909	45.5	72.3	77.8	69.7
Xitavo	XO 2963E	E3	2.9	65.3	10.8	3	\$897	48.9	71.8	67.3	73.4
Pioneer	P31A73E U	E3	3.1	65.3	10.1	2	\$895	48.1	60.4	78.2	74.5
Chemgro	C3054E	E3	3.0	65.2	11.2	4	\$895	54.0	65.7	72.2	69.1
Innotech	3750E3S	E3,ST	3.7	65.2	10.7	4	\$893	51.3	64.8	78.3	66.4
Stine	31EF23 U	E3	3.1	65.1	10.9	2	\$892	52.0	64.3	75.4	68.6
Zinesto	Z3803E	E3	3.8	65.0	11.3	8	\$891	50.4	69.0	76.7	64.1
Stine	38EF32 U	E3	3.8	64.6	11.3	4	\$886	52.0	66.5	72.8	67.0
Mid-Atlantic	MAS3022E3/STS	E3,ST	3.1	64.6	10.5	2	\$885	46.8	77.1	70.0	64.3
Seed Consultants	SC 7372E	E3	3.7	64.6	11.1	3	\$883	45.4	63.9	89.8	59.2
Chemgro	C3755XF	RXF	3.7	64.5	11.1	2	\$885	54.7	61.6	69.5	72.2
Hubner	H39-31XF	RXF	3.9	64.3	11.5	3	\$881	46.1	61.3	81.1	68.9
Xitavo	XO 3483E	E3,ST	3.4	64.2	11.0	2	\$881	47.5	71.7	73.0	64.8
Zinesto	Z3001E	E3	3.0	64.2	11.0	3	\$880	49.0	68.4	76.3	63.1
Innotech	3.20E+06	E3	3.1	64.1	10.6	6	\$879	47.0	67.6	76.7	65.2
Zinesto	Z2902E	E3	2.9	63.5	10.8	2	\$871	45.8	72.6	64.5	71.1
Averages =				64.0	10.9	4	\$877	47.8	68.4	74.0	65.8
LSD (0.10) =				4.4	0.5	2		4.7	6.9	6.5	6.1

Soybean Results: DMNO (See site description on page 10)

ALL-SEASON TEST MATURITY GROUP 3.7-4.7 Top 30 of 54 tested								Results in BOLD are significantly above test average.			
Company/ Brand	Product/ Brand	Technology	Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Chestertown	Preston	Princess Anne	Upperco
Golden Harvest	GH4343XFS	RXF,ST	4.3	62.5	15.0	5	\$882	83.4	53.3	65.2	48.0
Xitavo	XO 3922E	E3	3.9	61.6	14.7	2	\$870	84.5	52.9	55.1	53.8
Seed Consultants	SC 7472E	E3	4.7	60.9	14.9	8	\$859	69.9	54.9	63.5	55.3
NK Brand	NK39-T5E3S U	E3,ST	3.9	60.5	14.8	7	\$854	71.5	57.6	57.8	55.1
Stine	38EF32 U	E3	3.8	60.4	14.8	5	\$853	77.2	59.0	56.6	48.7
Asgrow	AG47XF3 U	RXF,ST	4.7	60.1	14.7	5	\$850	76.4	50.9	63.9	49.4
Hubner	H48-31XF	RXF	4.8	59.9	14.5	5	\$846	76.4	51.9	62.3	48.9
Hubner	H42-31XF	RXF	4.2	59.4	14.7	4	\$840	81.1	50.0	59.0	47.6
Mid-Atlantic	MAS3822E3/STS	E3,ST	3.9	59.3	14.8	5	\$837	69.8	57.1	60.5	49.7
Golden Harvest	GH4093E3 U	E3	4.0	59.2	14.9	5	\$837	77.7	56.3	64.3	38.7
Xitavo	XO 3803E	E3,ST	3.8	59.2	14.6	3	\$834	72.9	57.1	51.0	55.6
Innotech	3958E3S	E3,ST	3.9	59.1	14.7	7	\$836	78.5	55.4	64.0	38.6
Xitavo	XO 4522E	E3	4.5	59.1	15.0	6	\$834	82.8	52.8	47.8	53.0
Revere	4606XFS	RXF,ST	4.6	59.0	14.6	12	\$833	70.8	52.0	64.6	48.6
Xitavo	XO 4722E	E3	4.7	58.5	14.8	8	\$827	78.1	52.2	57.3	46.5
MorSoy	MS 4640 XF	RXF,ST	4.6	58.4	14.5	8	\$825	76.1	50.4	61.0	46.1
Golden Harvest	GH4222XF U	RXF	4.2	58.4	14.6	4	\$825	79.3	51.1	57.8	45.3
Mid-Atlantic	MAS4721E3/STS	E3,ST	4.7	58.3	15.1	9	\$824	77.3	53.1	58.6	44.2
Xitavo	XO 4132E	E3	4.1	58.2	14.7	6	\$822	81.5	51.8	54.4	45.0
Mid-Atlantic	MAS4675E3/STS	E3,ST	4.6	57.8	15.0	5	\$816	73.4	50.6	59.1	48.1
Golden Harvest	GH3762E3S	E3,ST	3.7	57.8	14.7	5	\$815	69.7	56.4	56.1	48.8
Seed Consultants	SC 7412E	E3	4.1	57.5	14.4	5	\$813	78.2	48.7	57.8	45.4
NK Brand	NK45-V9E3	E3	4.5	57.5	15.1	9	\$812	70.2	55.7	55.6	48.6
Xitavo	XO 4653E	E3,ST	4.6	57.4	14.9	6	\$811	71.9	53.2	60.8	43.8
Xitavo	XO 4371E	E3	4.3	57.4	14.7	4	\$810	76.3	53.3	51.3	48.7
Zinesto	Z3903E	E3	3.9	57.4	14.9	4	\$809	70.4	52.9	51.1	55.0
Stine	41EE62 U	E3	4.1	57.3	14.6	9	\$809	74.7	52.1	54.4	48.0
Mid-Atlantic	MAS4021E3	E3	4.0	57.2	14.7	8	\$808	79.7	54.3	56.4	38.3
Uni South Genetics	USG7461XFS GC	RXF,ST	4.6	56.4	14.8	7	\$798	75.2	48.5	61.7	40.3
Mid-Atlantic	MAS4622E3	E3,ST	4.6	56.0	14.7	6	\$790	77.5	50.0	51.7	44.6
Averages =				56.4	14.8	6	\$797	73.6	51.5	55.7	44.7
LSD (0.10) =				4.1	0.3	2.6		5.5	3.7	6.2	8.1

GET RESULTS

first

farmers' independent
research of seed
technologies



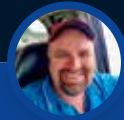
What I like about using FIRST is that it's independent research. They have no horse in the race.

Mark Uittenbogaard
Iowa farmer



I really like seeing what different brands, varieties, and traits do in the field.

Ed Iverson
Minnesota Farmer



FIRST's unbiased data tells us which corn varieties are going to perform best and in what way.

Darren Walter
Illinois Farmer



What Farmers say about FIRST trials



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