

first TRIALS

INDEPENDENT CORN AND
SOYBEAN YIELD TESTING

Missouri Edition



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FIRST MSR, Inc.
MONO, MOCE Corn and Soybeans



2023 Performance Summary

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.

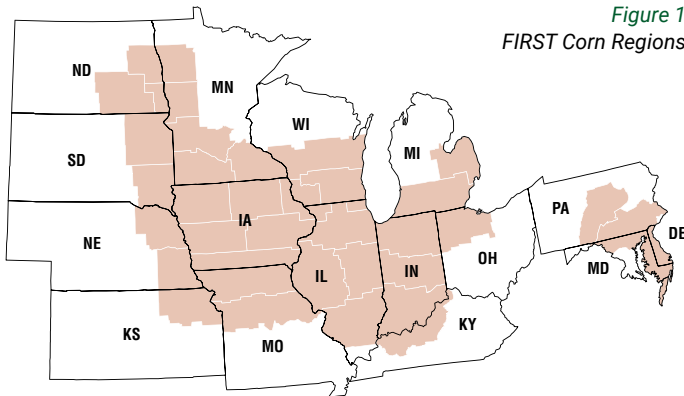


Figure 1
FIRST Corn Regions

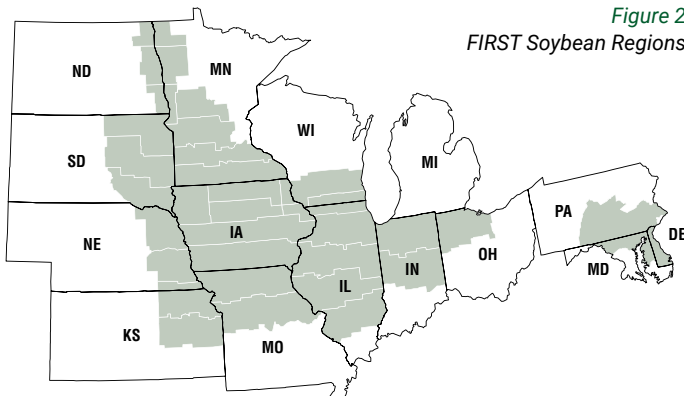


Figure 2
FIRST Soybean Regions

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.

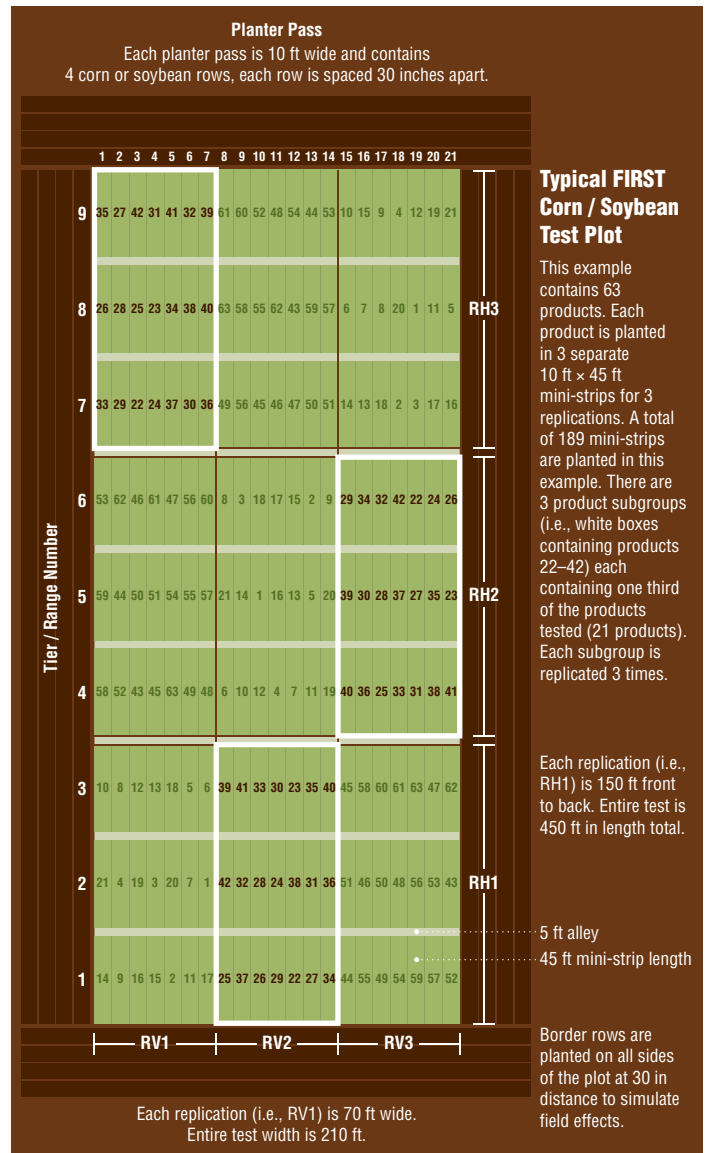
Products are replicated three times minimum per test and grouped in sub-blocks arranged in replication blocks from front to back and side to

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	Test Sites						
									Ear Lake	Okland	Peever	Ripon	Waukegan		
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	16.3	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 STXR.B	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	230.5	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)	Gross Income Rank	Test Sites						
									Arlington	Oregon	Pomona	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	FS-2488B	RX	2.27	67.6	10.8	7	\$509	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	RX	2.2	66.8	11.0	6	\$602	64.7	66.9	70.4	65.3				
TITAN PRO	T-2084H9	E3	2.2	66.7	11.3	9	\$500	65.3	62.4	72.5	66.5				
PIONEER	P23A15X U	RX	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 R2X	RX	2.5	66.1	10.8	7	\$595	70.6	64.9	67.3	61.5				
LATHAM	L-2295 R2X	RX	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	RX	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.

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®
AA	Agrisure® Above (CB,HX,LL,GT), formerly Agrisure® 3120
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)
AMT	Optimum® AcreMax® TRIsect
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)
PCE	PowerCore® Enlist® (HX,VT2P,2,4-D)

QR	Qrome®
RR2	Roundup Ready® 2 Corn
STX	SmartStax® (VT3PHXX)
STXP	SmartStax® PRO (VT3PHXX)
TRE	Trecepta®
VT2P	VT Double PRO®
VT4P	VT4Pro™ with RNAi Technology
V	Viptera™ (Vip,CB,HX,LL,GT), formerly Agrisure Viptera® 3220
VZ	Viptera™ Z3 (Vip,CB,VTP,LL,GT), formerly Agrisure Viptera® 3330

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.

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CORN REGIONS: MONO, MOCE



Site Description: **MONO** (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
Cairo	Dale & Kyle Samp	silt loam	no-till	soybeans	190	13-Apr	30-Sep	30.9	159.6	200.1	4
Greentop	Terry Sevits	silty clay loam	conventional	soybeans	150	14-Apr	23-Oct	29.8	188.5	186.3	12
Novelty	Brett & Kaley Wilkerson	silt loam	strip till	soybeans	225	13-Apr	29-Sep	32.0	154.6	245.8	6
St. Joseph	Jeff Gaskill	silty clay loam	conventional	soybeans	165	26-Apr	20-Sep	31.0	257.7	215.8	5
Trenton	Carl Woodard	silt loam	strip till	soybeans	177	18-Apr	28-Sep	31.5	222.5	164.7	4
								MONO	216.8	6	

Site Description: **MOCE** (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
Malta Bend	Robin Mull	silt loam	conventional	soybeans	200	12-Apr	14-Sep	32.1	220.5	228.5	4
New Franklin	Randy & Danny Kircher	silt loam	conventional	soybeans	200	11-Apr	21-Sep	31.8	231.0	196.3	5
Perry	Scott & Mark Hodges	silt loam	conventional	soybeans	176	12-Apr	not harvested	–	–	208.8	5
Portage Des Sioux	Matt Neustadt	loam	conventional	soybeans	218	14-Apr	17-Sep	32.0	227.2	240.9	4
Sweet Springs	Bruce Strobel	silt loam	minimum	soybeans	205	12-Apr	15-Sep	32.0	208.0	215.7	5
								MOCE	215.9	6	

CORN REGIONAL ANNUAL YIELD AVERAGES FOR 2019–2023

FIRST Region	Average Yield by Year (Bu/A)					Since Inception	
	2023	2022	2021	2020	2019	Bu/A	#Years
MONO	197.0	239.5	192.9	238.8	194.1	216.8	6
MOCE	221.8	222.0	192.9	236.9	231.5	215.9	6

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

EARLY-SEASON TEST | 107-112 Day CRM | Top 30 of 44 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	Cairo	Greentop	Novelty	St. Joseph	Trenton
Lewis	11DT912 TRE	TRE	111	207.4	18.1	2	\$931	1	186.8	178.6	184.8	260.7	226.2
ProHarvest	82P62 TRERIB	TRE	112	205.8	17.5	5	\$928	2	192.7	192.0	172.1	253.9	218.6
Wyffels	W6886	VT2P	111	205.7	19.6	2	\$913	5	170.3	173.8	180.6	271.3	232.5
Lewis	12DT302	TRE	112	203.9	18.4	1	\$913	6	186.0	183.1	173.7	248.4	228.3
Dyna-Gro	D50VC09RIB	VT2P	110	203.2	17.3	5	\$918	3	173.2	191.5	166.2	257.9	227.3
Channel	211-11VT2PRIB GC	VT2P	111	202.9	17.4	1	\$916	4	158.7	200.8	171.7	255.7	227.6
Golden Harvest	G11V76-AA	AA	111	202.3	19.4	4	\$900	8	179.0	196.2	156.2	258.6	221.8
AgriGold	A642-05VT2RIB GC	VT2P	112	202.1	18.5	1	\$903	7	167.0	186.8	161.7	258.9	236.3
Taylor	8013 VT2PDG	VT2PDG	112	199.5	18.5	1	\$891	11	170.5	181.1	151.8	262.4	231.7
FS InVision	FS 6017V RIB	VT2P	110	199.3	17.4	3	\$899	9	179.3	187.4	167.7	245.4	216.6
Hoegemeyer	8110AM GC	AM	111	197.6	17.7	1	\$891	12	153.5	181.7	153.3	272.5	227.1
DeKalb	DKC59-82RIB GC	VT2P	109	197.3	17.4	2	\$889	15	189.8	182.9	148.4	242.5	223.0
Renk	RK773TRE	TRE	109	196.8	17.1	1	\$890	14	174.6	190.9	154.8	248.3	215.6
Taylor	6010 TRE	TRE	110	196.7	16.8	2	\$890	13	169.0	187.4	161.5	257.0	208.6
Wyffels	W6215	TRE	109	196.4	17.5	1	\$885	16	163.5	179.0	167.4	248.9	223.1
Taylor	EXP D-112-23	PCE	112	196.2	19.7	3	\$873	24	124.1	199.9	155.7	271.5	230.0
FS InVision	FS 6133VDG RIB	VT2PDG	111	196.0	18.6	3	\$877	20	165.3	174.0	161.9	253.3	225.5
FS InVision	FS 5835V RIB	VT2P	108	194.8	18.2	2	\$874	22	162.2	187.4	171.2	237.2	216.0
Golden Harvest	G10B61-AA	AA	110	194.6	18.1	1	\$875	21	155.9	181.7	155.1	260.3	220.1
AgVenture	AV6010AM	AM	110	194.1	17.3	2	\$878	19	139.6	174.5	164.5	268.8	223.2
NuTech	72D4AM	AM	112	194.1	18.2	6	\$871	26	153.1	173.6	143.6	274.7	225.4
FS InVision	FS 6025X RIB	STX	110	194.0	17.0	2	\$879	18	160.2	174.9	160.3	255.5	219.1
NuTech	70B4AM	AM	110	193.5	17.6	2	\$873	25	154.7	174.0	153.7	266.9	218.1
Renk	RK766SSPRO	STXP	109	193.3	15.9	2	\$881	17	155.4	192.5	152.4	256.8	209.6
AgVenture	AV3715AM GC	AM	115	193.2	19.6	2	\$858	31	158.2	182.6	155.5	248.3	221.6
Pioneer	P1222AM GC	AM	112	193.2	17.5	1	\$871	27	162.6	172.9	149.0	258.8	222.7
Wyffels	W7048	STX	111	192.7	16.8	3	\$874	23	158.7	175.4	160.4	252.9	216.2
Burrus	POWER PLUS 5J21AM	AM	110	192.4	17.3	2	\$871	28	137.4	176.3	151.9	277.3	219.4
Renk	RK811PWE	PCE	111	191.4	17.0	4	\$867	29	156.1	180.4	145.6	258.5	216.2
AgVenture	AV2411AM	AM	111	191.2	17.5	2	\$863	30	128.1	175.8	158.9	271.3	222.2
Hoegemeyer	8268Q CK	QR	112	198.2	17.5	3	\$895	10	170.2	166.8	170.9	266.1	217.1
Averages =				193.9	17.8	2	\$873		157.6	179.0	157.3	256.0	219.8
LSD (0.10) =				9.2	0.7	1.6			14.2	9.8	8.6	11.5	10.5

FULL-SEASON TEST | 113-117 Day CRM | Top 30 of 44 tested

Results in BOLD are significantly above test average.

AgriGold	A643-52VT2RIB GC	VT2P	113	215.6	20.6	3	\$953	1	161.8	220.7	175.6	284.6	235.4
FS InVision	FS 6627T RIB	TRE	116	212.1	20.7	2	\$935	2	179.9	202.3	179.1	256.5	242.9
Wyffels	W8086	VT2P	114	211.8	20.6	2	\$934	3	170.4	202.8	161.4	277.5	246.8
Taylor	6015 TRE	TRE	115	210.8	20.8	1	\$929	5	167.9	212.0	180.6	257.3	236.1
Wyffels	W8108	STX	114	208.9	19.3	1	\$929	4	187.6	200.4	161.5	252.7	242.2
Taylor	9913 VT2P	VT2P	113	208.5	19.6	1	\$925	6	191.1	208.3	157.9	253.1	232.0
Lewis	14DT603	TRE	114	207.3	19.8	1	\$920	7	180.1	217.8	154.0	255.4	229.1
FS InVision	FS 6595V RIB	VT2P	115	207.0	21.5	1	\$906	13	174.1	192.7	170.3	268.6	229.2
Taylor	EXP C-115-23	VT2P	115	207.0	22.3	2	\$902	15	160.6	211.1	164.6	258.3	240.2
Wyffels	W7876RIB	VT2P	114	206.1	19.8	1	\$913	9	173.2	203.7	145.8	266.3	241.7
Lewis	17DP651	VT2P	117	205.9	23.6	4	\$889	23	164.5	215.9	166.9	255.4	226.8
Lewis	15DT512	TRE	115	205.7	19.9	2	\$911	11	177.5	211.3	150.7	256.1	232.9
Green Valley	GV8422VT2PRIB	VT2P	114	205.3	18.9	1	\$916	8	181.9	203.5	158.7	257.5	225.0
FS InVision	FS 6395VDG RIB	VT2PDG	113	204.5	19.0	1	\$913	10	173.8	211.3	152.9	258.7	225.8
Renk	RK876VT2P	VT2P	113	204.0	20.5	2	\$900	16	169.2	208.0	157.1	253.4	232.3
AgriGold	A645-16VT2RIB GC	VT2P	115	204.0	21.7	1	\$893	20	169.3	197.8	161.2	272.6	219.1
Green Valley	GV8212VT2PRIB	VT2P	112	203.7	19.6	1	\$905	14	175.9	205.1	159.8	249.6	228.0
Wyffels	W7945RIB	TRE	114	203.6	22.1	1	\$890	22	163.9	214.0	151.8	268.8	219.5
FS InVision	FS 6432P RIB	STXP	114	203.0	19.0	2	\$907	12	163.4	201.5	164.5	252.5	233.3
Burrus	7F33 VT2P	VT2P	114	202.1	20.0	2	\$894	19	177.3	196.3	155.9	250.4	230.6
Renk	RK958VT2P	VT2P	115	201.8	19.7	2	\$896	18	173.0	199.8	164.0	258.2	213.9
Burrus	7P71 VT2P	VT2P	115	201.7	19.5	1	\$896	17	172.9	204.3	150.8	266.2	214.2
FS InVision	FS 6625V RIB	VT2P	116	201.1	19.7	2	\$892	21	175.1	195.9	157.7	258.8	218.1
Taylor	6014 TRE	TRE	114	200.6	21.7	1	\$878	26	158.9	197.6	156.9	258.9	230.9
NuTech	75C1AM	AM	115	200.2	20.6	2	\$884	25	137.5	193.5	156.8	279.5	234.0
Wyffels	W8306RIB	VT2P	115	197.5	21.2	2	\$869	27	147.2	202.3	161.5	256.7	219.7
AgVenture	AV2816AM	AM	116	195.6	20.7	2	\$863	29	141.8	188.6	155.5	264.7	227.4
Renk	RK895DGV2P	VT2PDG	113	193.8	19.2	3	\$863	30	166.8	180.1	154.1	248.1	219.9
AgVenture	AV3213AM	AM	113	193.2	18.9	1	\$863	31	164.7	179.6	125.3	267.4	229.2
Hoegemeyer	8397Q GC	QR	113	192.7	18.0	1	\$867	28	163.6	198.4	137.8	245.6	218.0
Hoegemeyer	8268Q CK	QR	112	198.0	18.8	2	\$885	24	166.8	188.5	163.6	251.2	220.1
Averages =				199.2	20.4	2	\$881		161.7	197.9	151.8	259.3	225.2
LSD (0.10) =				9.4	1.1	0.9			11.6	9.4	7.6	9.7	7.1

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

EARLY-SEASON TEST | 107-112 Day CRM | Top 30 of 32 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	Malta Bend	New Franklin	Perry*	Portage Des Sioux	Sweet Springs
Channel	211-11VT2PRIB GC	VT2P	111	234.6	16.0	1	\$1,071	1	227.7	249.9	—	224.5	236.2
Lewis	11DT912 TRE	TRE	111	233.3	16.2	1	\$1,064	2	225.2	259.2	—	238.0	211.0
AgriGold	A642-05VT2RIB GC	VT2P	112	232.3	16.5	2	\$1,056	3	231.8	245.3	—	219.7	232.4
FS InVision	FS 6133VDG RIB	VT2PDG	111	230.2	17.1	2	\$1,043	6	208.5	256.7	—	232.7	223.1
FS InVision	FS 6137PC	PCE	111	230.2	16.3	2	\$1,049	4	221.7	261.5	—	226.4	211.3
Mustang	570PR RIB	VT2P	112	229.5	16.8	3	\$1,042	7	216.6	252.3	—	227.2	221.8
NuTech	70B4AM	AM	110	228.8	15.9	1	\$1,046	5	213.9	255.8	—	220.7	224.8
AgVenture	AV6010AM	AM	110	227.9	16.0	2	\$1,041	8	225.4	254.0	—	214.2	218.1
Mustang	429PR RIB	VT2P	110	226.7	17.0	2	\$1,027	12	216.2	244.0	—	221.0	225.5
NuTech	72D4AM	AM	112	225.7	16.0	2	\$1,030	9	219.3	252.5	—	214.3	216.7
ProHarvest	81P92 TRERIB	TRE	111	225.0	15.9	1	\$1,028	10	214.0	235.9	—	235.3	214.9
FS InVision	FS 5835V RIB	VT2P	108	224.9	15.9	1	\$1,028	11	210.4	254.0	—	208.7	226.6
NuTech	72A8AM	AM	112	224.0	16.5	1	\$1,019	15	220.5	240.7	—	226.5	208.1
Channel	212-52SSPRIB GC	STX	112	223.5	15.8	1	\$1,022	13	229.8	217.3	—	221.0	225.8
FS InVision	FS 6017V RIB	VT2P	110	223.1	15.9	3	\$1,020	14	219.1	235.4	—	215.5	222.3
AgVenture	AV2411AM	AM	111	221.7	15.9	2	\$1,013	17	216.0	235.3	—	227.3	208.3
NK Brand	NK1082-DV	DV	110	221.7	15.5	1	\$1,016	16	219.4	234.0	—	212.5	221.0
Golden Harvest	G11V76-AA	AA	111	220.6	17.0	1	\$1,000	22	213.3	235.8	—	212.3	221.2
Pioneer	P1077AM GC	AM	110	220.4	16.0	1	\$1,007	18	216.3	241.9	—	218.1	205.4
Lewis	12DT302	TRE	112	220.3	16.7	1	\$1,001	20	212.4	241.3	—	214.0	213.5
NK Brand	NK1188-AA	AA	111	219.4	16.8	2	\$995	24	218.6	226.0	—	219.5	213.4
NuTech	71A2AM	AM	111	219.1	16.0	2	\$1,000	21	210.3	232.5	—	226.7	206.9
Burrus	POWER PLUS 5J21AM	AM	110	218.4	15.5	3	\$1,001	19	199.2	252.4	—	211.3	210.6
DeKalb	DKC59-82RIB GC	VT2P	109	217.3	15.9	2	\$992	25	203.0	221.6	—	220.7	223.7
NuTech	68A7AM	AM	108	217.2	15.2	1	\$997	23	214.1	224.7	—	207.8	222.1
ProHarvest	81P65 D	D	111	217.1	16.4	1	\$989	27	215.7	210.6	—	222.1	220.2
AgVenture	AV9412AM	AM	112	214.8	16.3	1	\$978	28	213.5	249.8	—	209.2	186.8
FS InVision	FS 6025X RIB	STX	110	213.2	15.7	1	\$975	29	220.0	218.3	—	208.1	206.4
Golden Harvest	G10B61-AA	AA	110	210.8	15.6	1	\$965	30	209.0	222.2	—	198.4	213.5
NK Brand	NK1040-AA	AA	110	208.8	15.4	1	\$958	31	206.6	223.4	—	199.8	205.4
Pioneer	P1222AM CK	AM	112	216.4	15.7	1	\$990	26	213.7	251.6	—	197.1	203.3
Averages =				222.1	16.1	2	\$1,013		215.6	239.4		217.5	215.8
LSD (0.10) =				8.7	0.4	1.3			9.3	15.3		11.0	10.5

FULL-SEASON TEST | 113-118 Day CRM | Top 30 of 32 tested

Results in BOLD are significantly above test average.

Mustang	83A15	TRE	115	241.4	18.3	4	\$1,083	1	239.0	250.0	—	249.4	227.3
Channel	214-78DGV2PRIB GC	VT2PDG	114	235.6	19.0	3	\$1,051	4	229.4	235.9	—	253.0	224.3
Mustang	93R18	TRE	118	235.2	21.1	2	\$1,031	5	233.4	226.1	—	252.7	228.6
FS InVision	FS 6395VDG RIB	VT2PDG	113	233.8	17.1	1	\$1,058	2	237.3	224.7	—	247.4	225.7
AgVenture	AV3213AM	AM	113	232.3	17.1	1	\$1,052	3	228.9	238.3	—	244.9	217.1
Lewis	15DT512	TRE	115	229.5	19.3	1	\$1,021	7	235.1	231.6	—	236.6	214.5
NuTech	73A4AM	AM	113	227.8	17.1	2	\$1,031	6	220.9	233.3	—	238.4	218.5
ProHarvest	84P78 TRERIB	TRE	114	226.9	18.9	2	\$1,013	9	233.5	233.1	—	236.9	204.3
Mustang	97113	VT2PDG	113	225.5	17.1	1	\$1,020	8	238.0	213.0	—	244.5	206.6
Dyna-Gro	D56TC44RIB	TRE	116	225.3	18.0	5	\$1,013	10	239.1	226.0	—	243.2	193.0
Lewis	14DT603	TRE	114	224.6	17.7	6	\$1,012	11	219.7	235.4	—	222.6	220.5
NuTech	75C1AM	AM	115	223.7	18.4	1	\$1,002	13	222.9	227.5	—	244.4	200.1
FS InVision	FS 6595V RIB	VT2P	115	222.3	19.4	1	\$988	18	234.4	226.3	—	225.2	203.4
Mustang	662TRE RIB	TRE	113	221.8	16.1	4	\$1,011	12	205.3	213.5	—	243.3	225.3
AgVenture	AV2816AM	AM	116	221.5	18.0	3	\$995	15	213.4	214.3	—	243.6	214.7
Mustang	82R14	VT2P	114	221.2	19.2	1	\$985	19	220.5	228.6	—	238.2	197.4
NuTech	74C4AM	AM	114	220.1	17.1	2	\$996	14	225.0	227.3	—	227.9	200.2
FS InVision	FS 6625V RIB	VT2P	116	219.9	17.5	2	\$991	17	230.0	209.1	—	237.7	202.8
FS InVision	FS 6627T RIB	TRE	116	219.2	18.3	3	\$983	20	230.9	219.8	—	241.3	184.6
Lewis	17DP651	VT2P	117	218.6	20.3	2	\$965	25	214.8	230.3	—	234.4	195.1
Burrus	7F33 VT2P	VT2P	114	218.1	18.3	1	\$978	22	232.1	207.4	—	227.6	205.4
ProHarvest	8360 VT2PRIB	VT2P	113	216.9	17.6	3	\$978	21	215.6	220.7	—	237.4	193.9
NuTech	77A5AM	AM	117	216.0	18.0	2	\$971	24	234.8	225.8	—	239.8	163.8
Burrus	7P71 VT2P	VT2P	115	215.1	17.4	1	\$971	23	226.6	200.3	—	232.4	201.0
NK Brand	NK1523-V	V	115	214.7	19.9	1	\$952	27	230.1	230.8	—	232.1	166.0
FS InVision	FS 6432P RIB	STXP	114	212.1	16.7	2	\$963	26	223.8	223.7	—	241.0	159.9
NuTech	74A9AM	AM	114	212.1	18.9	1	\$946	29	224.7	201.4	—	231.5	190.8
Golden Harvest	G14B32-DV	DV	114	209.1	16.7	1	\$949	28	209.9	212.4	—	234.5	179.4
AgVenture	AV3715AM	AM	115	208.6	19.0	2	\$930	31	220.8	212.4	—	219.8	181.6
AgVenture	AV3514AML	AML	114	208.0	17.9	2	\$935	30	210.0	212.7	—	233.7	175.6
Pioneer	P1222AM CK	AM	112	217.1	15.9	3	\$992	16	221.8	223.7	—	224.4	198.4
Averages =				221.3	18.1	2	\$993		225.4	222.7		236.9	200.2
LSD (0.10) =				10.0	0.8	2.2			10.6	14.0		10.9	14.0

*Perry: lost due to severe drought

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

SOYBEAN REGIONS: MONO, MOCE



Site Description: **MONO** (See soybean results table on page 9)

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
Cairo	Dale & Kyle Samp	silt loam	no-till	corn	–	25-Apr	5-Oct	123.3	68.3	58.8	3
Greentop	Terry Sevits	silty clay loam	no-till	corn, rye cover crop	–	28-Apr	3-Oct	126.0	69.1	46.0	11
Maryville	Jeff & Deb Thummel	silty clay loam	no-till	corn	–	27-Apr	19-Oct	120.3	69.5	62.4	2
St. Joseph	Jeff Gaskill	silt loam	conventional	corn	–	27-Apr	17-Oct	128.9	61.0	59.3	5
								MONO	55.2	6	

Site Description: **MOCE** (See soybean results table on page 10)

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
Perry	Scott & Mark Hodges	silt loam	conventional	corn	–	24-Apr	10-Oct	127.8	53.1	60.3	5
Portage Des Sioux	Matt Neustadt	silt loam	conventional	corn	–	24-Apr	9-Oct	120.8	68.6	64.0	4
Sweet Springs	Bruce Strobel	silt loam	no-till	corn, rye cover crop	–	25-Apr	12-Oct	131.8	53.5	55.1	4
Tina	Howard Baker	silty clay loam	conventional	corn	–	26-Apr	20-Oct	118.2	57.9	53.7	1
								MOCE	57.4	6	

SOYBEAN REGIONAL ANNUAL YIELD AVERAGES FOR 2019–2023

FIRST Region	Average Yield by Year (Bu/A)					Since Inception	
	2023	2022	2021	2020	2019	Bu/A	#Years
MONO	66.9	59.7	57.4	52.4	53.8	55.2	6
MOCE	58.6	55.9	60.2	60.9	59.1	57.4	6

Soybean Results: **MONO** (See site description on page 8)

ALL-SEASON TEST | MATURITY GROUP 3.2-4.3 | Top 30 of 63 tested

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

Company/ Brand	Product/ Brand	Technology	Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Cairo	Greentop	Maryville	St. Joseph
Asgrow	AG33XF3 U	RXF	3.3	71.2	11.3	2	\$926	70.9	77.9	77.5	58.5
Burrus	3966E	E3	3.9	70.9	11.2	2	\$922	68.0	72.5	72.7	70.4
AgVenture	AV 38A1E	E3	3.8	70.3	11.2	2	\$915	66.5	69.4	77.5	68.0
NuTech	37N03E	E3	3.7	70.3	11.6	4	\$914	71.6	70.6	75.7	63.2
Golden Harvest	GH4093E3	E3	4.0	70.1	11.5	2	\$911	71.1	69.5	73.9	65.9
Hoegemeyer	3894 E	E3	3.8	69.9	11.3	3	\$910	70.7	68.2	73.4	67.5
NK Brand	NK37-C1E3 U	E3	3.7	69.8	11.5	2	\$907	69.0	68.5	74.0	67.7
Lewis	4035XF	RXF	4.0	69.3	11.9	4	\$902	74.5	72.7	65.5	64.7
FS HiSOY	HS 39F30	RXF	3.9	69.3	11.2	2	\$901	74.7	68.1	72.2	62.2
DONMARIO	DM34E11	E3	3.4	69.1	11.5	2	\$898	67.9	66.8	74.5	67.2
NuTech	36N04E	E3	3.6	69.1	11.2	2	\$898	68.1	69.5	73.4	65.3
NuTech	39N07E	E3	3.9	68.9	11.3	4	\$896	63.7	68.6	71.0	72.3
Xitavo	XO 3922E	E3	3.9	68.8	11.4	2	\$895	79.7	66.2	66.7	62.7
Xitavo	XO 3752E	E3,ST	3.7	68.8	11.2	2	\$895	67.4	73.0	72.0	62.9
Lewis	3834XF	RXF	3.8	68.8	11.2	4	\$894	72.6	71.8	69.8	61.0
Pioneer	P37A18E U	E3	3.7	68.8	11.4	2	\$894	60.6	68.8	74.0	71.6
Golden Harvest	GH3774E3 U	E3	3.7	68.7	11.5	2	\$894	64.0	67.8	76.2	66.9
FS HiSOY	HS 41F30	RXF,ST	4.1	68.7	11.4	3	\$893	72.4	73.8	67.3	61.3
AgVenture	AV 41Y5E	E3	4.1	68.6	11.3	6	\$892	70.0	69.1	77.2	58.1
FS HiSOY	HS 35E10	E3	3.5	68.6	11.6	5	\$892	64.6	76.9	73.7	59.1
Dyna-Gro	S35XF44	RXF	3.5	68.4	11.7	1	\$889	61.4	72.6	77.4	62.1
Xitavo	XO 3803E	E3,ST	3.8	68.3	11.9	12	\$888	73.5	70.8	68.0	60.9
Asgrow	AG39XF3 U	RXF	3.9	68.2	11.1	2	\$887	67.5	71.7	71.0	62.6
FS HiSOY	HS 34F30	RXF	3.4	68.1	11.4	2	\$885	60.8	74.0	78.9	58.7
AgVenture	AV 39Y3E	E3	3.9	68.1	11.3	3	\$885	63.8	69.2	74.7	64.7
FS HiSOY	HS 43E30	E3,ST	4.3	68.0	11.8	5	\$884	70.1	68.8	72.1	61.1
Xitavo	XO 3651E	E3	3.6	68.0	11.4	2	\$884	71.4	68.3	72.3	60.0
ProHarvest	39E40S	E3,ST	3.9	68.0	11.4	3	\$884	78.3	66.3	65.4	62.0
NuTech	42N05E	E3	4.2	67.9	11.7	5	\$883	68.3	76.4	63.6	63.3
Dyna-Gro	S38XF22S	RXF,ST	3.8	67.9	11.2	4	\$882	67.4	69.0	74.2	60.8
Averages =				67.0	11.5	4	\$871	68.3	69.1	69.5	61.0
LSD (0.10) =				4.0	0.3	2.5		3.7	3.4	4.1	4.7



Soybean Results: **MOCE** *(See site description on page 8)*

ALL-SEASON TEST | MATURITY GROUP 3.5-4.5 | Top 30 of 63 tested Results in **BOLD** are significantly above test average.

Company/ Brand	Product/ Brand	Technology	Maturity	Yield (Bu/A)	Moisture (%)	Lodging (%)	Gross Income (\$/A)	Perry	Portage Des Sioux	Sweet Springs	Tina
AgVenture	AV 38A1E	E3	3.8	63.9	11.2	2	\$831	55.5	77.3	58.9	63.8
Golden Harvest	GH4093E3 U	E3	4.0	62.4	11.6	2	\$812	57.9	73.5	56.0	62.2
Lewis	3834XF	RXF	3.8	62.2	11.3	4	\$809	53.7	76.8	57.4	61.0
Asgrow	AG39XF3 U	RXF	3.9	61.5	11.4	3	\$800	52.2	67.9	61.4	64.5
NK Brand	NK40-P5E3 U	E3	4.0	61.3	11.4	2	\$797	53.6	75.4	52.9	63.2
Pioneer	P37A18E U	E3	3.7	61.2	11.3	2	\$796	51.9	71.6	59.0	62.2
NK Brand	NK42-A6E3S U	E3,ST	4.2	61.1	11.7	6	\$795	56.6	74.5	50.3	63.2
NuTech	37N03E	E3	3.7	61.0	11.2	2	\$792	55.0	70.6	58.1	60.1
NuTech	42N05E	E3	4.2	60.8	11.4	2	\$791	53.8	71.7	53.5	64.4
Burrus	3966E	E3	3.9	60.8	11.3	1	\$790	52.3	73.4	56.5	60.9
AgVenture	AV 41Y5E	E3	4.1	60.7	11.1	6	\$789	51.1	73.4	56.9	61.4
NuTech	36N04E	E3	3.6	60.4	11.4	1	\$785	53.0	68.1	57.8	62.7
FS HiSOY	HS 43E30	E3,ST	4.3	60.3	11.3	5	\$784	57.1	71.1	54.2	58.8
Stine	40FD29 U	RXF	4.0	60.2	11.5	4	\$783	50.9	72.4	55.0	62.6
NuTech	45N09E	E3	4.5	60.2	11.3	4	\$782	53.7	68.4	57.4	61.2
Asgrow	AG40XF1 U	RXF,ST	4.0	60.0	11.5	3	\$780	52.7	77.1	55.1	55.2
AgVenture	AV 39Y3E	E3	3.9	59.9	11.4	3	\$778	50.7	74.3	52.8	61.7
Golden Harvest	GH4214E3S	E3,ST	4.2	59.8	11.5	5	\$779	57.2	71.3	50.2	60.8
Burrus	4365E	E3	4.3	59.8	11.3	6	\$778	55.3	73.6	52.6	57.7
AgVenture	AV 42A1E	E3	4.2	59.7	11.3	2	\$776	54.3	69.0	52.5	63.1
Mustang	39ES823	E3,ST	3.9	59.7	11.6	4	\$776	55.3	70.3	53.9	59.3
Xitavo	XO 4364E	E3,ST	4.3	59.6	11.4	6	\$774	56.3	68.8	52.5	60.7
Asgrow	AG3623XF GC	RXF	3.6	59.5	11.3	2	\$774	56.2	68.6	56.6	56.6
NuTech	39N07E	E3	3.9	59.4	11.2	2	\$773	51.5	71.5	52.9	61.8
FS HiSOY	HS 41F30	RXF,ST	4.1	59.4	11.6	5	\$772	54.8	69.2	55.1	58.5
Xitavo	XO 3922E	E3	3.9	59.0	11.5	2	\$768	58.8	64.2	53.9	59.2
FS HiSOY	HS 38E20	E3,ST	3.8	59.0	11.5	5	\$767	56.9	65.5	52.9	60.5
Xitavo	XO 4522E	E3	4.5	58.9	11.5	2	\$766	49.8	67.4	56.6	61.9
Stine	38EG32 U	E3	3.8	58.8	11.4	2	\$765	49.3	73.5	53.5	59.1
Xitavo	XO 3803E	E3,ST	3.8	58.7	11.6	4	\$763	54.9	69.0	54.3	56.6
Averages =				58.3	11.4	4	\$758	53.1	68.6	53.5	57.9
LSD (0.10) =				3.1	0.2	3		3.0	4.7	3.1	4.8



PRODUCTS TESTED



For the complete list of products, visit www.firstseedtests.com/archive/national-summary-reports/2023-program-guide/

THANK YOU!

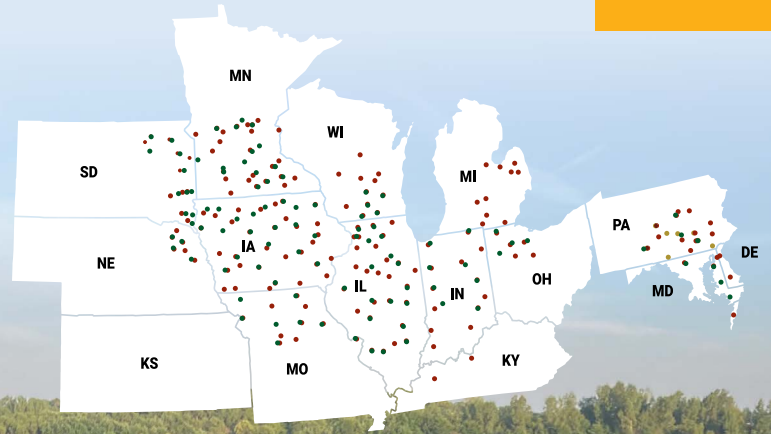
American farmers are the heart of Farmers' Independent Research of Seed Technologies (FIRST). Families and farms around the Midwest and Mid-Atlantic host and manage FIRST plots to provide actionable yield data to their fellow farmers and industry professionals. Thank you to all our host farmers!

FIRST is proud to serve the agricultural community each year by organizing corn, soybean, and corn silage trials in 15 states. Find out about more about methodology, results, and how to get involved with the trials at www.firstseedtests.com.

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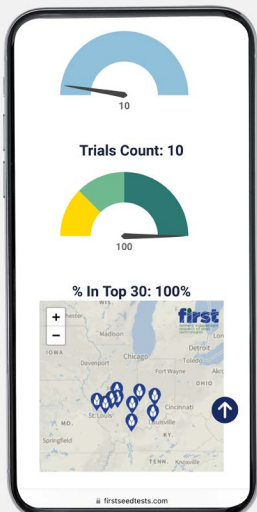
INDEPENDENT YIELD TRIALS
CORN • SOYBEANS • SILAGE

2023



FIRST made some changes this year: come visit the updated website. On your mobile device, choose "Add to my Home Screen" to use it more like an "app".

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