

Test by: M&D Seed Research, LLC Van Buren, IN

2022 Corn Grain Top 30 Harvest Report

Michigan South [MISO] CHARLOTTE, MI
Jim & Dennis Orr, Eaton County, MI 48813

Early-Season Test	97 - 103 Day CRM B2022MISO04a
Top 30 of 48	For Gross Income (Sorted by Yield) Average of (4) Replications
PREV. CROP/HERB:	Wheat / None
SOIL DESCRIPTION:	Marlette loam, mod. well drained, non-irrigated
SOIL CONDITION:	No-Till, very high P, high K, 6.6 pH, 2.3% OM, 8.5 CEC
PEST MANAGEMENT:	Degree Extra, Atrazine, Incinerate, Aquila Fungicide, Battalion Insecticide
FERTILITY - Applied N:	75 Spring, 95 Sidedress
Applied N-P-K (units):	170-0-150
SEDED - RATE - ROW:	May 20 33.6 /A 30" spacing
HARVESTED - STAND:	Nov 7 32.4 /A

TEST COMMENTS:

This site has high fertility and planted well following wheat with good moisture early. The site had some moisture stress in June with better rains following in July and August. The plot did have some weed escapes due to a lack of rain after herbicide application. Good moisture at pollinations helped fill ears and fungicide and insecticide application at tassel kept plants healthy until harvest.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Rob-See-Co	D98-43 ↗	TRE	98	234.7	15.6	1	31.6	1584	1
Dyna-Gro	D43VC81RIB ↗	VT2P	103	230.8	16.3	1	32.1	1550	2
Augusta	A2050 VT2P ↗	VT2P	100	228.2	16.7	1	33.0	1530	3
Dairyland	DS-4018AM ↗	AM	101	225.3	17.1	1	32.1	1507	5
Renk	RK600VT2P ↗	VT2P	100	224.9	15.8	1	33.0	1516	4
Dairyland	DS-3900AM ↗	AM	99	224.2	16.8	1	32.5	1502	6
FS InVision	FS 5098V RIB ↗	VT2P	100	222.9	16.6	1	33.2	1495	8
Rob-See-Co	D01-90 ↗	VT2P	101	222.9	16.4	1	33.2	1496	7
Rob-See-Co	D99-08 ↗	VT2P	99	222.8	16.6	1	30.4	1494	10
Specialty	30DT192 ↗	TRE	100	222.7	16.4	1	31.4	1495	9
M & W Seeds	MW 97A VT2P ↗	VT2P	97	220.1	16.1	1	33.0	1481	11
Integra	4993 TRERIB ↗	TRE	99	218.6	15.9	1	31.4	1472	12
Legacy	LC-4248 SS ↗	STX	100	218.6	16.6	1	31.4	1466	13
M & W Seeds	MW 103A VT2P ↗	VT2P	103	218.4	16.7	1	32.8	1464	14
Integra	5280 VT2PRIB ↗	VT2P	102	217.5	17.1	1	29.7	1453	19
M & W Seeds	45V21 ↗	VT2P	103	216.8	16.1	1	33.5	1458	16
Wyckoff	2210 SS RIB ↗	STX	102	216.7	16.9	1	30.2	1450	20
Renk	RK579DGV2P ↗	VT2PDG	99	216.4	15.9	1	32.8	1458	17
Legacy	LC-5319 ↗	STX	103	216.0	16.8	1	33.0	1447	21
Legacy	LC-5217 SS ↗	STX	102	216.0	16.0	1	31.6	1454	18
Dairyland	DS-4219AM ↗	AM	102	215.9	16.9	1	32.8	1446	22
Specialty	33D552 ↗	VT2P	103	215.3	16.7	1	33.2	1443	24
Integra	5052 VT2PRIB ↗	VT2P	100	215.0	16.2	1	31.4	1445	23
NK Brand	NK0007-AA ↗	AA	100	214.5	17.2	1	31.4	1434	26
Renk	RK597SSPRO ↗	STXP	99	213.8	16.0	1	33.2	1439	25
Legacy	LC511-21 ↗	STX	101	213.7	16.9	1	32.8	1431	27
Rob-See-Co	RC5134-PCE ↗	PC	101	212.4	17.2	1	32.8	1419	30
Wyckoff	2250 VT2P RIB ↗	VT2P	101	212.0	16.1	1	32.8	1426	28
Golden Harvest	G02K39-D ↗	D	102	212.0	16.8	1	32.1	1420	29
M & W Seeds	MW 98A TRE ↗	TRE	98	210.1	15.9	1	32.8	1415	31
PIONEER	P0035AM CK	AM	100	217.9	16.6	1	31.8	1461	15

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Averages = **213.1** **16.5** **1** **32.4** **1433**

LSD (0.10) = 10.8 0.4 ns

LSD (0.25) = 5.7 0.2 ns

C.V. = 5.6

Historic yield: 159.29 bu/a, 13 yr(s)

Yield & Income Factors: Base Moisture = 15.5% Shrink = 1.3 Drying = \$0.04 Prices: GMO = \$6.75; non-GMO = \$6.75

Report Date: 11/08/2022

† See last page for abbreviation descriptions. Dark colored row identifies the check product found in early- and full-season tests. **Bold** yields are significantly above test average by LSD(0.10). **Italicized** brands exceed the grain moisture limit for this test. **ns** = column values not significantly different. ↗ Links to full product yield results at www.firstseedtests.com

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2022 Corn Grain Top 30 Harvest Report

Michigan South [MISO] CHARLOTTE, MI
Jim & Dennis Orr, Eaton County, MI 48813

Full-Season Test	104 - 107 Day CRM B2022MISO04b
Top 30 of 36	For Gross Income (Sorted by Yield) Average of (4) Replications
PREV. CROP/HERB:	Wheat / None
SOIL DESCRIPTION:	Marlette loam, mod. well drained, non-irrigated
SOIL CONDITION:	No-Till, very high P, high K, 6.6 pH, 2.3% OM, 8.5 CEC
PEST MANAGEMENT:	Degree Extra, Atrazine, Incinerate, Aquila Fungicide, Battalion Insecticide
FERTILITY - Applied N:	75 Spring, 95 Sidedress
Applied N-P-K (units):	170-0-150
SEDED - RATE - ROW:	May 20 33.6 /A 30" spacing
HARVESTED - STAND:	Nov 7 32.1 /A

TEST COMMENTS:

This site has high fertility and planted well following wheat with good moisture early. The site had some moisture stress in June with better rains following in July and August. The plot did have some weed escapes due to a lack of rain after herbicide application. Good moisture at pollinations helped fill ears and fungicide and insecticide application at tassel kept plants healthy until harvest.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Legacy	LC564-20 ↗	PC,E	106	224.2	17.9	1	31.8	1492	1
Integra	5719 VT2PRIB ↗	VT2P	107	219.8	18.3	2	33.2	1459	5
Dyna-Gro	D44DC73RIB ↗	VT2PDG	104	217.7	16.6	1	31.8	1460	3
Dairyland	DS-4510Q ↗	QR	105	217.5	17.4	1	32.1	1452	6
Wyckoff	2483 VT2P RIB ↗	VT2P	105	217.3	16.2	1	33.2	1460	4
M & W Seeds	44V83 ↗	V	107	216.4	19.4	1	33.0	1427	11
Wyckoff	2335 SS RIB ↗	STX	104	216.1	16.4	1	33.5	1451	7
Augusta	A4759-3111 ↗	3111	109	215.8	18.0	1	31.1	1436	8
Renk	RK710DGV2P ↗	VT2PDG	107	213.8	17.2	1	33.2	1429	10
Wyckoff	2582 VT2P RIB ↗	VT2P	107	212.9	17.4	1	33.2	1421	16
Renk	RK625DGV2P ↗	VT2PDG	104	212.9	16.2	1	33.2	1432	9
Rob-See-Co	D05-16 ↗	VT2P	105	212.3	16.8	1	32.8	1422	15
FS InVision	FS 5594X RIB ↗	STX	105	212.1	17.1	1	31.8	1418	17
Integra	5443 DGV2PRIB ↗	VT2PDG	104	212.1	16.1	1	33.2	1427	12
Wyckoff	2515 VT2P RIB ↗	VT2P	107	212.1	18.5	1	32.1	1406	20
FS InVision	FS 5525VDG RIB ↗	VT2P	105	212.0	16.1	1	33.2	1425	13
Rob-See-Co	RC5768-VT2P ↗	VT2P	107	211.9	18.0	1	33.2	1409	19
Legacy	LC554-21 ↗	VT2PDG	105	211.3	15.8	1	32.1	1424	14
Pioneer	P0720Q GC ↗	QR	107	210.8	18.5	2	33.2	1398	21
Augusta	A3655 VT2P ↗	VT2P	104	210.7	16.8	1	31.1	1411	18
Legacy	LC541-22 ↗	STX	104	206.4	17.6	2	33.5	1376	23
Specialty	34D651 ↗	VT2P	104	205.9	15.9	1	31.4	1387	22
Renk	RK715SSTX ↗	STX	105	205.8	17.4	1	31.8	1374	25
FS InVision	FS 5725X RIB ↗	STX	107	205.8	17.2	1	31.1	1375	24
Golden Harvest	G04S19-AT ↗	AT	104	204.9	17.5	1	31.4	1366	27
M & W Seeds	44V42 ↗	VT2P	107	204.4	17.1	9	31.6	1367	26
NK Brand	NK0696-D ↗	D	106	201.5	18.3	1	31.4	1337	28
Dyna-Gro	D47SS93 ↗	STX	107	198.4	17.5	1	31.4	1324	29
Wyckoff	2440 SS RIB ↗	STX	106	198.4	17.8	2	31.8	1320	30
Integra	5533 STXRIB ↗	STX	105	197.9	17.8	2	32.8	1317	31
PIONEER	P0035AM CK	AM	100	221.2	17.5	2	30.7	1475	2
				Averages =	208.4	17.4	1	32.1	1390
				LSD (0.10) =	12.8	0.4	ns		
				LSD (0.25) =	6.7	0.2	ns		
				C.V. =	6.8				
				Historic yield: 159.29 bu/a, 13 yr(s)					

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Yield & Income Factors: Base Moisture = 15.5% Shrink = 1.3 Drying = \$0.04 Prices: GMO = \$6.75; non-GMO = \$6.75

Report Date: 11/08/2022

† See last page for abbreviation descriptions. Dark colored row identifies the check product found in early- and full-season tests. **Bold** yields are significantly above test average by LSD(0.10). **Italicized** brands exceed the grain moisture limit for this test. **ns** = column values not significantly different. ↗ Links to full product yield results at www.firstseedtests.com

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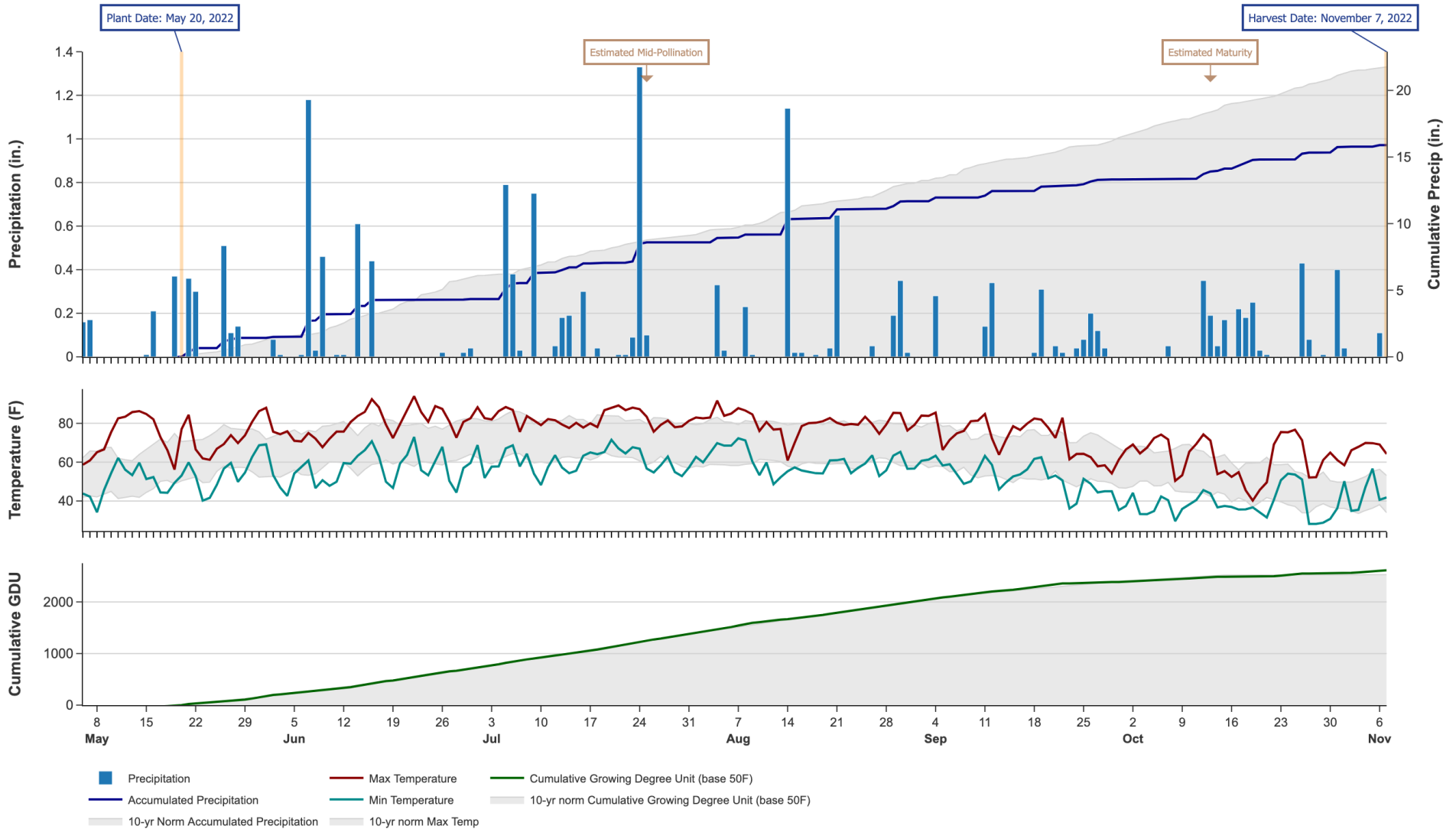
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2022 Corn - Michigan South [MISO]

Weather Conditions Summary at CHARLOTTE, MI

Weather Data Retrieved: 11/08/2022

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct	Nov*	Total
Precip (in) Normal (Diff)	2.3 3.2 (-0.8)	2.9 4.8 (-1.9)	4.2 3.2 (+1.1)	3.1 3.9 (-0.8)	1.6 3.5 (-1.8)	2.4 4.7 (-2.2)	0.1 0.6 (-0.5)	16.8 23.8 (-7.0)
GDU Normal (Diff)	345 287 (+57)	550 537 (+12)	659 675 (-16)	622 613 (+8)	400 411 (-11)	165 127 (+37)	61 0 (+61)	2802 2652 (+149)



* First monthly total starts on the date 14 days prior to planting and final monthly total ends on the harvest date.

Note: Weather information from PRISM Climate Group. Data may be revised by the provider after retrieval. FIRST will not revise or update reports to reflect any weather data changes. For information purposes only.

2022 Corn - Michigan South [MISO]

Early-Season Test Products (48 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Augusta	A2050 VT2P	VT2P	N	100	AC250
Augusta	A2150-5222-EZ	DV	Y	100	CM,C2,Vi
Augusta	A22-250	AA	Y	100	AC,P5
Dairyland	DS-3900AM	AM	Y	99	Lum, L1
Dairyland	DS-3959Q	QR	Y	99	Lum, L1
Dairyland	DS-4018AM	AM	Y	101	Lum, L1
Dairyland	DS-4219AM	AM	Y	102	Lum, L1
Dyna-Gro	D43VC81RIB	VT2P	N	103	AC,P5V
FS InVision	FS 4715V RIB	VT2P	Y	97	AC,P5V
FS InVision	FS 4927T RIB	TRE	Y	99	AC,P5V,EDC-EL
FS InVision	FS 5098V RIB	VT2P	Y	100	AC,P5V
FS InVision	FS 5115X RIB	STX	Y	101	AC,P5V
FS InVision	FS 5125L1A EZR	AA	Y	101	CM,C2,Vi
Golden Harvest	G02K39-D	D	Y	102	AVC,C2,Vi,Va
Golden Harvest	G99A37-DV	DV	Y	99	AVC,C2,Vi,Va
Integra	4993 TRERIB	TRE	N	99	AC,P5V
Integra	5052 VT2PRIB	VT2P	Y	100	AC,P5V,SU+Zn
Integra	5280 VT2PRIB	VT2P	Y	102	AC,P5V,SU+Zn
Legacy	LC-4248 SS	STX	Y	100	AC,P5V
Legacy	LC511-21	STX	Y	101	AC,P5V
Legacy	LC-5217 SS	STX	Y	102	AC,P5V
Legacy	LC-5319	STX	Y	103	AC,P5V
M & W Seeds	45V21	VT2P	Y	103	Ti
M & W Seeds	46T29	VT2P	Y	99	Ti
M & W Seeds	MW 103A VT2P	VT2P	Y	103	Ti
M & W Seeds	MW 97A VT2P	VT2P	Y	97	Ti
M & W Seeds	MW 98A TRE	TRE	Y	98	Ti
NK Brand	NK0007-AA	AA	Y	100	AVC,C2,Vi,Va
NK Brand	NK9922-DV	DV	Y	99	AVC,C2,Vi,Va
NK Brand	NK9991-D	D	Y	99	AVC,C2,Vi,Va
Partners Brand	PB7250 GC	DV	Y	102	AC,P2,St
Pioneer	P0035AM CK	AM	Y	100	Lum, L1
Renk	RK579DGV2P	VT2PDG	Y	99	AC,P2
Renk	RK597SSPRO	STXP	N	99	AC,P5V
Renk	RK600VT2P	VT2P	N	100	AC,P2
Renk	RK615SSTX	STX	Y	102	AC,P5V
Rob-See-Co	D01-90	VT2P	Y	101	AC,P2,Sb
Rob-See-Co	D98-43	TRE	Y	98	AC,P2,Sb
Rob-See-Co	D99-08	VT2P	Y	99	AC,P2,Sb
Rob-See-Co	RC5134-PCE	PC	N	101	AC,P2,Sb
Specialty	27D728	VT2P	Y	97	AC,P2V
Specialty	30DT192	TRE	Y	100	AC,P5V,EDC-B

Company/Brand	Brand/Product	Technology	RIB	RM	Seed Treat.
Specialty	33D552	VT2P	Y	103	AC,P5V,EDC-B
Wyckoff	2170 TRE RIB	TRE	Y	98	AC,P2
Wyckoff	2180 SS RIB	STX	Y	98	AC,P5V
Wyckoff	2210 SS RIB	STX	Y	102	AC,P5V,EDC-B
Wyckoff	2250 VT2P RIB	VT2P	Y	101	AC,P2
Wyckoff	2300 DGV2P RIB	VT2PDG	Y	103	AC,P2

* FIRST does not inspect products for refuge blend. N* indicates the product was entered without a refuge component by the sponsoring seed company. Prior year entries may contain refuge blend.

2022 Corn - Michigan South [MISO]

Full-Season Test Products (36 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Augusta	A3655 VT2P	VT2P	N	104	AC250
Augusta	A4759-3111	3111	N	109	CM,C2,Vi
Dairyland	DS-4510Q	QR	Y	105	Lum, L1
Dairyland	DS-4567Q	QR	Y	105	Lum, L1
Dyna-Gro	D44DC73RIB	VT2PDG	Y	104	AC,P5V
Dyna-Gro	D47SS93	STX	N	107	AC,P5
FS InVision	FS 5525VDG RIB	VT2P	Y	105	AC,P2
FS InVision	FS 5594X RIB	STX	Y	105	AC,P5V
FS InVision	FS 5725X RIB	STX	Y	107	AC,P5V
Golden Harvest	G04S19-AT	AT	Y	104	AVC,C2,Vi,Va
Golden Harvest	G07G73-D	D	Y	107	AVC,C2,Vi,Va
Integra	5443 DGVT2PRIB	VT2PDG	N	104	AC,P5V
Integra	5533 STXRIB	STX	N	105	Treated
Integra	5719 VT2PRIB	VT2P	Y	107	AC,P5V,SU+Zn
Legacy	LC541-22	STX	Y	104	AC,P5V
Legacy	LC554-21	VT2PDG	N	105	AC,P5V
Legacy	LC564-20	PC,E	N	106	CM,C2,Vi
M & W Seeds	44V42	VT2P	Y	107	Ti
M & W Seeds	44V74	DV	Y	105	Ti
M & W Seeds	44V83	V	Y	107	Ti
NK Brand	NK0696-D	D	Y	106	AVC,C2,Vi,Va
Pioneer	P0035AM CK	AM	Y	100	Lum, L1
Pioneer	P0720Q GC	QR	Y	107	Lum
Renk	RK625DGV2P	VT2PDG	N	104	AC,P2
Renk	RK710DGV2P	VT2PDG	Y	107	AC,P2
Renk	RK715SSTX	STX	Y	105	AC,P5V
Rob-See-Co	D05-16	VT2P	Y	105	AC,P2,Sb
Rob-See-Co	RC5768-VT2P	VT2P	Y	107	AC,P2,Sb
Specialty	34D651	VT2P	Y	104	AC,P5V,EDC-B
Specialty	36D260	VT2P	Y	106	AC,P5V,EDC-B
Specialty	37D832	VT2P	Y	107	AC,P5V,EDC-B
Wyckoff	2335 SS RIB	STX	Y	104	AC,P5V
Wyckoff	2440 SS RIB	STX	Y	106	AC,P5V
Wyckoff	2483 VT2P RIB	VT2P	Y	105	AC,P2
Wyckoff	2515 VT2P RIB	VT2P	Y	107	CM,C2,Vi
Wyckoff	2582 VT2P RIB	VT2P	Y	107	AC,P5V

* FIRST does not inspect products for refuge blend. N* indicates the product was entered without a refuge component by the sponsoring seed company. Prior year entries may contain refuge blend.

Footnotes and Abbreviations Descriptions

Brand Footnotes

^	Innotech™ brand seed is distributed by Rob-See-Co, LLC. Power Plus® brand seed is distributed by Burrus. Innotech™ is a trademark of Syngenta. Power Plus® is a registered trademark of Corteva Agriscience.
CK	Identifies a check product included in early- and full-season tests.
GC	Grower Comparison product included by FIRST when space permits.

Corn Technologies

3111	Agrisure® Viptera® 3111 (Vip,CB,RW,LL,GT)
AA	Agrisure® Above (CB,HX,LL,GT), formerly Agrisure® 3120
AM	Optimum® AcreMax®
AT	Agrisure® Total (CB,HXX,RW,LL,GT), formerly Agrisure® 3122
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
E	Enlist™ (2,4-D, glyphosate, fop herbicide tolerance)
PC	PowerCore™
QR	Qrome™
STX	SmartStax®
STXP	SmartStax® Pro
TRE	Trecepta®
V	Viptera™ (Vip,CB,HX,LL,GT), formerly Agrisure Viptera® 3220
VT2P	VT Double PRO®
VT2PDG	VT Double PRO® DroughtGard®

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

Corn Seed Treatments*

NA	Not Available
AC250	Acceleron® 250
AC,P2	Acceleron® 250
AC,P2,Sb	Acceleron® 250, SabrEx Inoculant
AC,P2,St	Acceleron® 250, Stamina
AC,P2V	Acceleron® Poncho 250/Votivo
AC,P5	Acceleron® 500
AC,P5V	Acceleron® Poncho 500/Votivo
AC,P5V,EDC-B	Acceleron® BASIC Poncho 500/Votivo with Enhanced Disease Control
AC,P5V,EDC-EL	Acceleron® ELITE Poncho 500/Votivo with Enhanced Disease Control
AC,P5V,SU+Zn	Acceleron® Poncho 500/Votivo, StepUp SP, StepUp Zn
AVC,C2,Vi,Va	Avicta® Complete 250, Vibrance®, Vayantis®
CM,C2,Vi	CruiserMaxx® 250 with Vibrance
Lum	LumiGEN™ (Corteva Agriscience)
Lum, L1	(2022) LumiGEN, Lumisure 1250
Ti	Titan Corn 250 (M & W Seeds)
Treated	Treated seed, unspecified

* Seed treatments may include unspecified plant health promoting components.