

Test by: F.I.R.S.T. MSR, Inc. Columbia, MO

2020 Corn Grain Top 30 Harvest Report

Missouri North [MONO] MARYVILLE, MO

Thummel Enterprises, Inc., Jeff & Deb Thummel, Nodaway County, MO

Early-Season Test	107 - 112 Day CRM B2020MONO02a
Top 30 of 44	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybean / Zidua Pro, Liberty, Dual 2 Mag, Round-Up
SOIL DESCRIPTION:	Colo silty clay loam, moderately drained, non-irrigated
SOIL CONDITION:	No-Till, high P, medium K, 5.9 pH, 2.7% OM, 17.8 CEC
PEST MANAGEMENT:	Resicore, Callisto, Round-Up, Atrazine, Force 3g, Quilt XI
FERTILITY - Applied N:	170 Fall, 50 Spring, 25 sulfur
Applied N-P-K (units):	220-60-150
SEEDED - RATE - ROW:	Apr 30 32.4 /A 30" spacing
HARVESTED - STAND:	Sep 29 31.9 /A

TEST COMMENTS:

This is a new deep loess soil trial site for FIRST. Stands were good and even with the exception of one corner of the early test. This was an unforeseen spot in the field that has not historically had standing water, and the 4th rep of the early test was dropped in that area. Rainfall was trending above 10-year averages through mid-June, and then it shut off. The area did catch a few rain events during critical pollination and grain fill. August was extremely dry. Yields were phenomenal in the field.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
MIDLAND GENETICS	XP110-1PR	VT2P,B	110	275.1	24.8	1	32.2	868	3
NUTECH	68A7AM	AM,B	107	273.5	23.7	1	32.9	874	2
NUTECH	70A8AM	AM,B	110	273.3	23.5	1	32.2	875	1
HOEGEMEYER	8268Q GC	QR,B	112	270.1	25.4	1	32.2	847	10
DEKALB	DKC62-53RIB GC	VT2P,B	112	269.9	24.6	1	32.2	854	5
RENK	RK882SSTX	STX	111	268.9	27.5	1	30.8	823	23
MIDLAND GENETICS	381VLGA EZ1	3220A,B	108	267.9	23.2	1	31.5	860	4
RENK	RK866DGV2P	VT2PDG	112	267.6	24.1	1	31.5	852	6
NUTECH	72B7CYFR	QR	112	267.3	24.1	1	32.2	850	7
GREEN VALLEY	8102	VT2P,B	111	267.0	25.5	1	32.2	836	11
MIDLAND GENETICS	570PR RIB	VT2P,B	112	265.4	25.9	1	31.5	828	17
PIONEER	P1197AM GC	AM,B	111	264.6	26.0	1	32.2	824	21
FS INVISON	FS 6107T RIB	TRE,B	111	264.1	23.3	1	32.2	848	9
GOLDEN HARVEST	G10L16-5222A-EZR	5222A,B	110	264.1	24.9	1	32.2	833	13
LEWIS	09DD740	VT2PDG,B	109	263.8	24.7	1	32.2	834	12
FS INVISON	FS 6194V RIB	VT2P,B	111	263.6	22.9	1	32.2	850	8
AUGUSTA	1259	3330,B	109	263.1	24.7	1	32.2	831	16
LEWIS	10DP719	VT2P,B	110	263.0	25.7	1	31.5	822	24
BURRUS	POWER PLUS 4F71AM	AM,B	109	262.8	24.5	1	31.5	833	14
HOEGEMEYER	8233AM GC	AM,AQ,B	112	261.7	24.2	1	32.9	832	15
DURACROP	3135	VT2P	112	261.6	24.7	1	31.5	827	19
GREEN VALLEY	8282	VT2P,B	112	260.8	25.7	1	31.5	815	28
BURRUS	6G34 VT2P	VT2P,B	112	259.5	25.2	1	32.2	816	27
BURRUS	POWER PLUS 6Z43AM	AM,B	112	259.3	24.6	1	32.2	820	25
PIONEER	P1077AM GC	AM,AQ,B	110	258.0	23.3	1	31.5	828	18
LEWIS	08DP739	VT2P,B	108	257.8	25.0	1	32.9	812	31
NK BRAND	NK1082-3330A-EZR	3330A,B	110	257.2	24.7	1	30.2	813	29
NK BRAND	NK0821-3120A-EZR	3120A,B	108	256.1	23.7	1	32.2	818	26
NUTECH	5FB-8808AM	AM,B	108	254.6	22.6	1	31.5	824	22
NUTECH	68B3VYHR	OL,B	108	249.1	21.7	1	30.8	813	30
PIONEER	P1138AM CK	AM	111	255.9	22.8	1	32.2	826	20

Averages = **259.4** **24.6** **1** **31.9** **820**

LSD (0.10) = 10.1 1.2 ns

LSD (0.25) = 5.3 0.6 ns

William Schelp

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C.V. = 3.7

Historic yield: 123.1 bu/a, 2 yr(s)

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.035 Prices: GMO = \$3.50; non-GMO = \$3.50

Report Date: 10/02/2020

Revised: 10/02/2020

Additional reports available at www.firstseedtests.com

† 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

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Thummel Enterprises, Inc., Jeff & Deb Thummel, Nodaway County, MO

Full-Season Test	113 - 116 Day CRM B2020MONO02b
Top 30 of 44	For Gross Income (Sorted by Yield) Average of (4) Replications
PREV. CROP/HERB:	Soybean / Zidua Pro, Liberty, Dual 2 Mag, Round-Up
SOIL DESCRIPTION:	Colo silty clay loam, moderately drained, non-irrigated
SOIL CONDITION:	No-Till, high P, medium K, 5.9 pH, 2.7% OM, 17.8 CEC
PEST MANAGEMENT:	Resicore, Callisto, Round-Up, Atrazine, Force 3g, Quilt XI
FERTILITY - Applied N:	170 Fall, 50 Spring, 25 sulfur
Applied N-P-K (units):	220-60-150
SEEDED - RATE - ROW:	Apr 30 32.4 /A 30" spacing
HARVESTED - STAND:	Sep 29 31.8 /A

TEST COMMENTS:

This is a new deep loess soil trial site for FIRST. Stands were good and even with the exception of one corner of the early test. This was an unforeseen spot in the field that has not historically had standing water, and the 4th rep of the early test was dropped in that area. Rainfall was trending above 10-year averages through mid-June, and then it shut off. The area did catch a few rain events during critical pollination and grain fill. August was extremely dry. Yields were phenomenal in the field.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
NUTECH	74B6AM	AM,B	114	278.7	25.4	1	32.2	874	1
LEWIS	15DP899	VT2P,B	115	278.3	27.2	1	31.7	856	2
FS INVISION	FS 6306T RIB	TRE,B	113	274.5	26.0	1	31.7	855	4
MIDLAND GENETICS	660PR DG RIB	VT2PDG,B	113	272.1	27.1	1	32.7	837	5
LEWIS	14DD849	VT2PDG,B	114	269.6	27.3	1	32.2	828	6
NUTECH	E74D3AM	AM,B	114	269.1	24.1	1	31.2	856	3
NUTECH	E74C1AM	AM,B	114	268.3	27.1	1	31.7	826	8
DYNA-GRO	D54VC34	VT2P	114	267.2	29.2	1	32.2	803	14
WYFFELS	W7876RIB	VT2P,B	114	265.3	27.2	1	32.2	815	10
NK BRAND	NK1239-5122-EZR	5122,B	112	265.0	27.9	1	32.2	808	13
MIDLAND GENETICS	801PR RIB	VT2P,B	117	264.6	25.8	1	31.7	827	7
<i>FS INVISION</i>	<i>FS 6595V RIB</i>	<i>VT2PB</i>	<i>115</i>	<i>264.0</i>	<i>30.9</i>	<i>1</i>	<i>31.7</i>	<i>777</i>	<i>29</i>
GOLDEN HARVEST	G15J91-3220-EZR	3220,B	115	263.7	29.6	1	31.2	788	20
MIDLAND GENETICS	770PR DG RIB	VT2PDG,B	115	262.3	26.3	1	31.2	815	11
NK BRAND	NK1523-3220-EZR	3220,B	115	261.7	30.0	1	30.7	779	28
RENK	RK965VT2P	VT2P,B	116	260.3	27.9	1	30.2	794	17
RENK	RK937VT2P	VT2P,B	113	259.8	24.8	1	32.7	821	9
GREEN VALLEY	8472	VT2P,B	114	258.7	27.1	1	32.2	796	16
GOLDEN HARVEST	G14N11-5222-EZR	5222,B	114	257.9	27.3	1	31.2	792	18
GREEN VALLEY	8392	VT2P,B	113	257.2	25.0	1	32.2	810	12
LEWIS	15DT890	TRE,B	115	257.0	27.5	1	32.2	787	21
FS INVISION	FS 6395VDG RIB	VT2PDG,B	113	255.8	26.8	1	32.2	790	19
NUTECH	5FB-2213AM	AM,B	113	255.5	25.9	1	31.7	797	15
DURACROP	3148	3000GT	114	255.4	27.2	1	32.2	785	23
DURACROP	3150	VT2P	115	255.2	27.4	1	32.2	783	24
HOEGEMEYER	8490AM GC	AM,AQ,B	114	253.0	26.2	1	31.2	786	22
MIDLAND GENETICS	721PR RIB	VT2P,B	115	252.3	26.3	1	31.2	783	25
WYFFELS	W7726RIB	VT2P,B	113	252.1	27.0	1	32.2	777	30
RENK	RK945DGV2P	VT2PDG,B	115	251.8	26.4	1	31.7	781	27
NUTECH	75G1AM	AM,B	115	251.6	26.8	1	31.7	777	31
PIONEER	P1138AM CK	AM	111	246.5	24.2	1	31.2	783	26
				Averages =	257.2	27.3	1	31.8	789
				LSD (0.10) =	11.3	1.5	ns		
				LSD (0.25) =	5.9	0.8	ns		
				C.V. =	4.8				Historic yield: 123.1 bu/a, 2 yr(s)

William Schelp

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Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.035 Prices: GMO = \$3.50; non-GMO = \$3.50

Report Date: 10/02/2020

Revised: 10/02/2020

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† 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

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2020 Corn - Missouri North [MONO]

Early-Season Test Products (44 Total)

Company/Brand	Product/Brand	Technology	RM	Seed Treat.
AUGUSTA	1259	3330,B	109	AVC,C5
BURRUS	6G34 VT2P	VT2P,B	112	BPS
BURRUS	POWER PLUS 4F71AM	AM,B	109	BPS
BURRUS	POWER PLUS 6Z43AM	AM,B	112	BPS
DEKALB	DKC62-53RIB GC	VT2P,B	112	NA
DURACROP	3135	VT2P	112	CM,C2,Vi
FS INVISION	FS 5704V RIB	VT2P,B	107	AC,P5V
FS INVISION	FS 5892V RIB	VT2P,B	108	AC,P5V
FS INVISION	FS 6107T RIB	TRE,B	111	AC,P5V
FS INVISION	FS 6194V RIB	VT2P,B	111	AC,P5V
FS INVISION	FS 62ZV1 RIB	VT2P,B	112	AC,P2
GOLDEN HARVEST	G10L16-5222A-EZR	5222A,B	110	AVC,C5,Vi
GOLDEN HARVEST	G12S75-5122-EZR	5122,B	112	AVC,C5,Vi
GOLDEN HARVEST	G12U17-3120-EZR	3120,B	112	AVC,C5,Vi
GREEN VALLEY	8102	VT2P,B	111	AC250
GREEN VALLEY	8282	VT2P,B	112	AC250
HOEGEMEYER	7955AML GC	AML,B	109	Lum,P5V
HOEGEMEYER	8233AM GC	AM,AQ,B	112	Lum,P1V
HOEGEMEYER	8268Q GC	QR,B	112	Lum,P1V
LEWIS	07DT081	TRE,B	107	NA
LEWIS	08DP739	VT2P,B	108	NA
LEWIS	09DD740	VT2PDG,B	109	NA
LEWIS	10DP719	VT2P,B	110	NA
LEWIS	12DT371	TRE,B	112	NA
MIDLAND GENETICS	381VLGA EZ1	3220A,B	108	CM,C2,Vi
MIDLAND GENETICS	429PR RIB	VT2P,B	110	AC
MIDLAND GENETICS	430PR RIB	VT2P,B	110	AC
MIDLAND GENETICS	570PR RIB	VT2P,B	112	AC
MIDLAND GENETICS	XP110-1PR	VT2P,B	110	AC
NK BRAND	NK0821-3120A-EZR	3120A,B	108	AVC,C5,Vi
NK BRAND	NK1082-3330A-EZR	3330A,B	110	AVC,C5,Vi
NK BRAND	NK1205-3120-EZR	3120,B	112	AVC,C5,Vi
NUTECH	5FB-8808AM	AM,B	108	P1V,RN
NUTECH	68A7AM	AM,B	107	P1V,RN
NUTECH	68B3VYHR	OL,B	108	P1V,RN
NUTECH	70A8AM	AM,B	110	P1V,RN

Company/Brand	Brand/Product	Technology	RM	Seed Treat.
NUTECH	72B7CYFR	QR	112	P1V,RN
PIONEER	P0977AM GC	AM,B	109	NA
PIONEER	P1077AM GC	AM,AQ,B	110	NA
PIONEER	P1138AM CK	AM	111	NA
PIONEER	P1197AM GC	AM,B	111	NA
RENK	RK842VT2P	VT2P,B	112	AC,P2
RENK	RK866DGVT2P	VT2PDG	112	AC,P2
RENK	RK882SSTX	STX	111	AC,P5V

2020 Corn - Missouri North [MONO]

Full-Season Test Products (44 Total)

Company/Brand	Product/Brand	Technology	RM	Seed Treat.
DEKALB	DKC65-95RIB GC	VT2P,B	115	NA
DURACROP	3142	PC,E	114	AC,P5
DURACROP	3148	3000GT	114	CM,C2,Vi
DURACROP	3150	VT2P	115	CM,C2,Vi
DYNA-GRO	D53VC33	VT2P	113	AC,P5V,EDC-B
DYNA-GRO	D54VC34	VT2P	114	AC,P5V,EDC-B
FS INVISION	FS 6306T RIB	TRE,B	113	AC,P5V
FS INVISION	FS 6395VDG RIB	VT2PDG,B	113	AC,P5V
FS INVISION	FS 6406X RIB	STX,B	114	AC,P5V
FS INVISION	FS 6595V RIB	VT2P,B	115	AC,P5V
FS INVISION	FS 6606T RIB	TRE,B	116	AC,P5V
GOLDEN HARVEST	G13T41-3120-EZR	3120,B	113	AVC,C5,Vi
GOLDEN HARVEST	G14N11-5222-EZR	5222,B	114	AVC,C5,Vi
GOLDEN HARVEST	G15J91-3220-EZR	3220,B	115	AVC,C5,Vi
GREEN VALLEY	8392	VT2P,B	113	AC250
GREEN VALLEY	8472	VT2P,B	114	AC250
HOEGEMEYER	8490AM GC	AM,AQ,B	114	Lum,P5V
LEWIS	14DD849	VT2PDG,B	114	NA
LEWIS	15DP899	VT2P,B	115	NA
LEWIS	15DT890	TRE,B	115	NA
LEWIS	16DP850	VT2P,B	116	NA
LEWIS	16DP887	VT2P,B	116	NA
MIDLAND GENETICS	656PR RIB	VT2P,B	113	AC
MIDLAND GENETICS	660PR DG RIB	VT2PDG,B	113	AC
MIDLAND GENETICS	721PR RIB	VT2P,B	115	AC
MIDLAND GENETICS	770PR DG RIB	VT2PDG,B	115	AC
MIDLAND GENETICS	801PR RIB	VT2P,B	117	AC
NK BRAND	NK1239-5122-EZR	5122,B	112	AVC,C5,Vi
NK BRAND	NK1523-3220-EZR	3220,B	115	AVC,C5,Vi
NUTECH	5FB-2213AM	AM,B	113	P1V,RN
NUTECH	74B6AM	AM,B	114	P1V,RN
NUTECH	75G1AM	AM,B	115	P1V,RN
NUTECH	E74C1AM	AM,B	114	P1V,RN
NUTECH	E74D3AM	AM,B	114	P1V,RN
PIONEER	P1138AM CK	AM	111	NA
PIONEER	P1380AM GC	AM	113	NA

Company/Brand	Brand/Product	Technology	RM	Seed Treat.
PIONEER	P1464AML GC	AM	114	NA
RENK	RK937VT2P	VT2P,B	113	AC,P2
RENK	RK945DGV2P	VT2PDG,B	115	AC,P2
RENK	RK965VT2P	VT2P,B	116	AC,P2
WYFFELS	W7726RIB	VT2P,B	113	AC250
WYFFELS	W7876RIB	VT2P,B	114	AC250
WYFFELS	W7956RIB	VT2P,B	114	AC250
WYFFELS	W8936DGRIB	VT2PDG,B	117	AC250

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*

3000GT Agrisure® 3000GT
 3120 Agrisure® 3120 (CB,HX,LL,GT)
 3120A Agrisure® Artesian® 3120 (CB,HX,LL,GT)
 3220 Agrisure® Viptera® 3220 (Vip,CB,HX,LL,GT)
 3220A Agrisure® Artesian® Viptera® 3220
 (Vip,CB,HX,LL,GT)
 3330 Agrisure® Viptera® 3330 (Vip,CB,LL,GT)
 3330A Agrisure® Artesian® Viptera® 3330 (Vip,CB,LL,GT)
 5122 Agrisure® Duracade™ 5122
 5222 Agrisure® Duracade™ 5222
 5222A Agrisure® Duracade™ Artesian® 5222
 AM Optimum® AcreMax®
 AML Optimum® AcreMax® Leptra®
 (Vip,YGCB,HX,LL,RR2)
 AQ Optimum® AQUAmax®
 B Blend, Refuge in a Bag (RIB) or EZ-Refuge
 E Enlist™ (2,4-D, glyphosate, fop herbicide tolerance)
 OL Optimum® Leptra®
 PC PowerCore™
 QR Qrome™
 STX SmartStax®
 TRE Genuity® Trecepta™
 VT2P Genuity® VT Double PRO®
 VT2PDG Genuity® VT Double PRO® DroughtGard®

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

Corn Seed Treatments**

NA	Not Available
AC	Acceleron®, unspecified
AC250	Acceleron 250
AC,P2	Acceleron, Poncho 250
AC,P5	Acceleron, Poncho 500
AC,P5V	Acceleron, Poncho 500/Votivo
AC,P5V,EDC-B	Acceleron, Basic Poncho 500/Votivo with Enhanced Disease Control
AVC,C5	Avicta Complete 500
AVC,C5,Vi	Avicta Complete 500, Vibrance
BPS	Burrus PowerShield
CM,C2,Vi	CruiserMaxx 250 with Vibrance
Lum,P1V	Lumigen Poncho 1250/Votivo
Lum,P5V	Lumigen Poncho 500/Votivo
P1V,RN	Poncho 1250/Votivo, Rancona®

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