

Test by: Southern MN FIRST New Richland, MN

2020 Corn Grain Top 30 Harvest Report

Minnesota Southwest [MNSW] TRUMAN, MN

Dan Helvig, Martin County, MN 56088

Early-Season Test	97 - 102 Day CRM B2020MNSW04a
Top 30 of 80	For Gross Income (Sorted by Yield) Average of (2) Replications
PREV. CROP/HERB:	Corn / Surestart, Callisto, Roundup
SOIL DESCRIPTION:	Crippin loam, mod. well drained, non-irrigated
SOIL CONDITION:	Conventional W/ Fall Till, high P, medium K, 6.4 pH, 3.7% OM, 24.5 CEC
PEST MANAGEMENT:	Force, Laudis, Atrazine
FERTILITY - Applied N:	145 Fall, 30 Sidedress, 5# sulfur
Applied N-P-K (units):	175-75-125
SEEDED - RATE - ROW:	Apr 26 35.3 /A 30" spacing
HARVESTED - STAND:	Oct 31 32.8 /A

TEST COMMENTS:

April dropped only 0.86" rain, and this corn after corn site was planted into very dry soils. The early dry conditions caused emergence differences and ear size to be smaller than normal. Dan stated that his corn on corn ground yielded 40-50 bushels less than after soybeans. The field around the plot site averaged about 185 bpa. Other area farmers confirmed the drop in yields after a previous corn crop, especially where residue had not been buried by tillage. One replicate of the early-season test was dropped, and the full-season test was rejected due to high variance.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
MILLER HYBRIDS	M00-49	CONV	100	236.1	16.2	5	34.6	815	1
TITAN PRO	92-99 2P	VT2P,B	99	232.6	16.2	4	33.3	803	2
GOLDEN HARVEST	G02K39-5122-EZR	5122,B	102	220.8	15.7	4	33.3	767	3
HEINE	7200	VT2P	102	212.3	15.6	1	33.3	738	4
GOLDEN HARVEST	G99E68-5122-EZR	5122,B	99	208.7	16.2	1	33.9	720	5
WYFFELS	W1636RIB	VT2P,B	96	205.2	15.5	1	33.3	715	6
WYFFELS	W2196RIB	VT2P,B	99	204.1	15.9	3	32.6	707	7
TITAN PRO	22-00 2P	VT2P,B	100	203.8	15.8	1	34.0	707	8
RENK	RK626SSTX	STX	102	203.6	15.9	1	32.6	706	9
DEKALB	DKC47-54RIB GC	STX,B	97	203.0	16.0	3	34.6	703	11
DAIRYLAND	DS-4018AM	AM,AQ,B	101	202.9	15.6	1	34.6	705	10
FEDERAL	5110 STX	STX	101	202.8	15.8	3	34.0	703	12
DEKALB	DKC50-08RIB GC	STX,B	100	201.9	15.7	1	31.9	701	13
TITAN PRO	26-00	5222,B	100	201.9	16.2	1	33.3	697	14
DYNA-GRO	D40VC41	VT2P	100	200.4	15.6	4	33.3	697	15
PIONEER	P0075Q GC	QR	100	200.2	15.4	0	33.3	697	16
WYFFELS	W2236RIB	VT2P,B	99	199.5	15.6	1	31.9	694	17
PIONEER	P9772AM GC	AM,B	97	199.4	16.1	1	33.9	689	19
GOLD COUNTRY	99-01R2P	VT2P	99	198.1	15.3	3	31.9	691	18
VIKING	44-98	CONV	98	196.9	16.6	3	34.6	677	20
HEFTY	H4922VT2PRIB	VT2P,B	99	194.6	15.7	2	32.6	676	21
ANDERSON	609VT2P	VT2P,B	98	194.5	15.6	2	32.6	676	22
ENESTVEDT	E658DP RIB	VT2P,B	96	193.6	16.1	1	33.3	669	24
ANDERSON	6811	CONV	100	193.3	16.0	1	32.6	669	25
HEINE	7010	VT2P	100	193.2	15.8	4	32.6	670	23
NK BRAND	NK9991-5122-EZR	5122,B	99	192.6	16.2	2	31.2	665	27
ANDERSON	6909	CONV	98	192.0	15.7	1	29.9	666	26
INTEGRA	5081 DGVT2PRIB	VT2PDG,B	100	190.8	15.8	3	34.6	662	28
AUGUSTA	2545	5122,B	95	190.5	16.0	3	31.9	660	30
TITAN PRO	84-01 VT2PRIB	VT2P,B	101	188.8	15.0	4	33.9	661	29
DEKALB	DKC52-35RIB CK	VT2P,B	102	189.3	15.7	5	34.6	658	31
				Averages =	180.8	15.8	2	32.8	627
				LSD (0.10) =	31.9	0.5	ns		
				LSD (0.25) =	16.7	0.3	ns		
				C.V. =	13.6				
				Historic yield: 209.5 bu/a, 1 yr(s)					

Mark Querna

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Yield & Income Factors:

Base Moisture = 15.0%

Shrink = 1.4

Drying = \$0.04

Prices: GMO = \$3.50

Report Date: 11/01/2020

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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2020 Corn Grain Top 30 Harvest Report

Minnesota Southwest [MNSW] TRUMAN, MN
Dan Helvig, Martin County, MN 56088

Full-Season Test	103 - 107 Day CRM B2020MNSW04b
Top 30 of 60	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Surestart, Callisto, Roundup
SOIL DESCRIPTION:	Crippin loam, mod. well drained, non-irrigated
SOIL CONDITION:	Conventional W/ Fall Till, high P, medium K, 6.4 pH, 3.7% OM, 24.5 CEC
PEST MANAGEMENT:	Force, Laudis, Atrazine
FERTILITY - Applied N:	145 Fall, 30 Sidedress, 5# sulfur
Applied N-P-K (units):	175-75-125
SEEDED - RATE - ROW:	Apr 26 35.3 /A 30" spacing
HARVESTED - STAND:	Oct 31 32.9 /A

TEST COMMENTS:

April dropped only 0.86" rain, and this corn after corn site was planted into very dry soils. The early dry conditions caused emergence differences and ear size to be smaller than normal. Dan stated that his corn on corn ground yielded 40-50 bushels less than after soybeans. The field around the plot site averaged about 185 bpa. Other area farmers confirmed the drop in yields after a previous corn crop, especially where residue had not been buried by tillage. One replicate of the early-season test was dropped, and the full-season test was rejected due to high variance.

Company/Brand	Product/Brand	Seeds / Row	GR	Yield Bu/A	Moisture %	lodging %	Stand In 2020	Gross Income \$/Acre	Rank
HEM	HE20H	PC	108	201.8	16.0	0	32.1	787	1
LATHAM	LN 5725 VTOP HB	VTOPB	107	207.2	15.8	1	34.4	718	2
HE FERTILITY GENETICS	HFD1071	CONV	107	208.3	15.4	2	34.4	718	3
INTENSIA	5725 VTOPHB	VTOPB	108	208.3	15.8	1	33.5	716	4
INTENSIA	5715 5708B	5715B	107	208.2	15.8	1	33.7	707	5
HEM	705	57A	108	211.2	16.1	0	33.8	695	6
GOLDEN HARVEST	5020H 5020 42R	5020B	109	211.2	17.2	0	31.1	690	8
TITAN PRO	84-08 2P	VTOPB	108	211.5	15.7	2	31.7	687	7
LATHAM	LN 5077 VTOP HB	VTOPB	107	214.4	15.8	2	31.0	684	9
GOLD COUNTRY	106-8905	5715B	108	214.2	15.1	0	33.5	671	10
HE BRAND	5020H 5020 42R	5020B	108	214.2	15.8	1	33.0	668	12
GOLD COUNTRY	106-8907	VTOPB	108	214.2	15.8	0	32.1	670	11
MILLER HYBRID	965-72	5715B	107	211.1	16.2	1	29.8	658	14
TITAN PRO	84-08 2P	VTOPB	108	211.1	15.8	2	31.7	662	13
LATHAM	LN 5725 HB	5715B	107	211.2	15.8	2	29.8	658	15
HE BRAND	5020H 5020 42R	5020B	108	212.2	16.0	0	33.0	641	16
GOLD COUNTRY	106-71	VTOPB	108	214.2	15.8	2	33.5	640	17
GOLD COUNTRY	107-8907	VTOPB	107	212.4	15.8	3	31.8	638	18
FEDERAL	5725 VTOP	VTOPB	107	192.8	15.8	4	33.0	638	19
HEFTY	HE20H 5020 42R	5020B	108	192.0	15.8	2	30.8	630	21
HEM	HE20H 5020 42R	VTOPB	108	191.8	15.8	0	33.5	631	20
TITAN PRO	84-08 2P	PC	108	191.8	15.8	1	33.0	630	22
VRING	84-08 2P	CONV	108	191.4	16.0	3	33.5	628	23
GOLDEN HARVEST	5020H 5020 42R	5020B	108	192.2	16.2	1	33.0	622	24
VRING	84-08 2P	CONV	108	190.1	16.4	3	33.0	620	26
GOLDEN HARVEST	5020H 5020 42R	5020B	108	179.8	15.8	1	32.8	622	25
WHITEFIELD	5020H 5020 42R	VTOPB	108	179.4	16.0	3	33.0	617	28
HEM	705	57A	108	179.2	16.2	4	33.5	619	27
PIONEER	PIONEER 30	GR	108	178.1	16.7	1	31.7	611	30
VRING	84-08 2P	CONV	108	171.1	16.0	2	32.1	613	29

REJECTED

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Averages =	176.7	16.0	1	32.9	611
LSD (0.10) =	ns	ns	ns		
LSD (0.25) =	ns	ns	ns		
C.V. =	16.2			Historic yield: 209.5 bu/a, 1 yr(s)	

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.4 Drying = \$0.04 Prices: GMO = \$3.50

Report Date: 11/01/2020

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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 - Minnesota Southwest [MNSW]



Early-Season Test Products (80 Total)

Company/Brand	Product/Brand	Technology	RM	Seed Treat.
ANDERSON	609VT2P	VT2P,B	98	CM,C2,Vi
ANDERSON	611R	RR2	100	MQ
ANDERSON	6581	CONV	101	MQ
ANDERSON	6811	CONV	100	MQ
ANDERSON	6909	CONV	98	MQ
AUGUSTA	2545	5122,B	95	AVC,C2
AUGUSTA	3052	5222,B	102	AVC
DAIRYLAND	DS-3750AMRIB	AM,B	97	Lum,P1V
DAIRYLAND	DS-3810Q	QR,B	98	Lum,P1V
DAIRYLAND	DS-4000AMXTRIB	AMXT,B	100	Lum,P1V
DAIRYLAND	DS-4014Q	QR,B	100	Lum,P1V
DAIRYLAND	DS-4018AM	AM,AQ,B	101	Lum,P5V
DEKALB	DKC47-54RIB GC	STX,B	97	AC,P5V,EDC-EL
DEKALB	DKC50-08RIB GC	STX,B	100	ACb
DEKALB	DKC52-35RIB CK	VT2P,B	102	AC,P5V,EDC-EL
DYNA-GRO	D40VC41	VT2P	100	AC,P5V,EDC-B
DYNA-GRO	D43VC81	VT2P	102	AC,P5V,EDC-B
ENESTVEDT	E600DP RIB	VT2P,B	100	AC,P5V
ENESTVEDT	E658DP RIB	VT2P,B	96	AC,P2
ENESTVEDT	E660SS RIB	STX,B	97	AC,P5V
ENESTVEDT	E696SS RIB	STX,B	100	AC,P5V
ENESTVEDT	E699DP RIB	VT2P,B	99	AC,P2
EPLEY	E1040 GC	CONV	100	Vi5
FEDERAL	5110 STX	STX	101	AC,P5V,MAG
FEDERAL	5280 CONV	CONV	101	CM,C2,Vi
GOLD COUNTRY	102-07	CONV	102	AC
GOLD COUNTRY	97-14R2P	VT2P	97	AC
GOLD COUNTRY	97-75R2P	VT2P	97	AC
GOLD COUNTRY	98-11R2P	VT2P,B	98	AC
GOLD COUNTRY	99-01R2P	VT2P	99	AC
GOLDEN HARVEST	G00H12-5122-EZR	5122,B	100	AVC,C2,Vi
GOLDEN HARVEST	G02K39-5122-EZR	5122,B	102	AVC,C2,Vi
GOLDEN HARVEST	G99E68-5122-EZR	5122,B	99	AVC,C2,Vi
HEFTY	H4734SSRIB	STX,B	97	HC
HEFTY	H4842VT2P	VT2P	98	HC
HEFTY	H4922VT2PRIB	VT2P,B	99	HC
HEFTY	H5132VT2P	VT2P	101	HC
HEFTY	H5144SS	STX	101	HC
HEINE	6500VT2PRIB	VT2P,B	98	AC,P2
HEINE	6550VT2P	VT2P	99	AC,P5V,EDC-EL

Company/Brand	Brand/Product	Technology	RM	Seed Treat.
HEINE	6575	VT2P	99	AC,P5V,EDC-EL
HEINE	7010	VT2P	100	AC,P5V,EDC-B
HEINE	7200	VT2P	102	AC,P5V
HI FIDELITY GENETICS	HFG1001	CONV	100	AC,P5V
INTEGRA	4782 VT2PRIB	VT2P,B	97	AC,P2,St,SU
INTEGRA	4888 VT2PRIB	VT2P,B	98	AC,P2,St,SU
INTEGRA	5081 DGVT2PRIB	VT2PDG,B	100	AC,P2,St,SU
INTEGRA	5280 VT2PRIB	VT2P,B	102	AC,P2,St,SU
LATHAM	LH 4937 VT2P RIB	VT2P,B	99	AC250
LATHAM	LH 4989 SS RIB	STX,B	99	AC,P5V
LATHAM	LH 5047 VT2P RIB	VT2P,B	100	AC250
LATHAM	LH 5077 VT2P RIB	VT2P,B	100	AC250
MILLER HYBRIDS	M00-49	CONV	100	MSC
MILLER HYBRIDS	M02-73BGV	3220	102	MSC
NK BRAND	NK0243-5122-EZR	5122,B	102	AVC,C2,Vi
NK BRAND	NK9991-5122-EZR	5122,B	99	AVC,C5,Vi
NORTHSTAR	NS 100-121	STX,B	100	NA
NORTHSTAR	NS 97-547	VT2P,B	97	NA
NORTHSTAR	NS 98-513 STXRIB	STX,B	98	NA
PIONEER	P0075Q GC	QR	100	NA
PIONEER	P9772AM GC	AM,B	97	NA
PIONEER	P9998Q GC	QR	99	NA
RENK	RK593VT2PRIB	VT2P,B	97	AC,P2
RENK	RK600SSTX	STX,B	100	AC,P5V
RENK	RK626SSTX	STX	102	AC,P5V
RENK	RK695GTCBLLBL	3220	102	CM,C2
TITAN PRO	22-00 2P	VT2P,B	100	AC250
TITAN PRO	26-00	5222,B	100	C2
TITAN PRO	84-01 VT2PRIB	VT2P,B	101	AC250
TITAN PRO	91-02	CONV	102	C2
TITAN PRO	92-99 2P	VT2P,B	99	AC250
VIKING	44-98	CONV	98	CM,C2,Sb
VIKING	52-00	CONV	100	CM,C2,Sb
VIKING	55-02	CONV	102	CM,C2,Sb
VIKING	99-00	CONV	100	CM,C2,Sb
WYFFELS	W1636RIB	VT2P,B	96	AC250
WYFFELS	W2196RIB	VT2P,B	99	AC250
WYFFELS	W2236RIB	VT2P,B	99	AC250
WYFFELS	W2506RIB	VT2P,B	101	AC250
WYFFELS	W3018	STX	102	AC,P5V

2020 Corn - Minnesota Southwest [MNSW]

Full-Season Test Products (60 Total)

Company/Brand	Product/Brand	Technology	RM	Seed Treat.
DAIRYLAND	DS-4310AMRIB	AM,B	104	Lum,P5V
DAIRYLAND	DS-4440AM	AM,B	104	Lum,P5V
DAIRYLAND	DS-4580Q	QR,B	104	Lum,P5V
DEKALB	DKC52-35RIB CK	VT2P,B	102	AC,P5V,EDC-EL
DEKALB	DKC54-64RIB GC	STX,B	104	AC,P5V,EDC-EL
DEKALB	DKC55-53RIB GC	STX,B	105	AC,P5V,EDC-EL
ENESTVEDT	E539	CONV	103	CM,C2,Vi
ENESTVEDT	E598	CONV	106	CM,C2,Vi
FEDERAL	5700 VT2P	VT2P	107	AC,P5V,MAG
GOLD COUNTRY	103-58RSS	STX	103	AC
GOLD COUNTRY	104-11	CONV	104	AC
GOLD COUNTRY	106-09R2P	VT2P	106	AC
GOLD COUNTRY	106-96RSS	STX,B	106	AC
GOLD COUNTRY	107-84R2P	VT2P	107	AC
GOLDEN HARVEST	G03R40-5222-EZR	5222,B	103	AVC,C2,Vi
GOLDEN HARVEST	G04G36-3111A	3111A	104	AVC,C2,Vi
GOLDEN HARVEST	G06Q68-5222-EZR	5222,B	106	AVC,C2,Vi
HEFTY	H5432VT2PRIB	VT2P,B	104	HC
HEFTY	H5442VT2P	VT2P	104	HC
HEFTY	H5522VT2PRIB	VT2P,B	105	HC
HEFTY	H5524SSRIB	STX,B	105	HC
HEFTY	H5624SSRIB	STX,B	106	HC
HEINE	740	VT2P,B	103	AC,P2
HEINE	7450	VT2P	104	AC,P5V,EDC-EL
HEINE	7550	STX	106	AC,P5V,EDC-EL
HEINE	7570	STX	105	AC,P5V,EDC-EL
HEINE	7710	VT2P	107	AC,P2
HI FIDELITY GENETICS	HFG1071	CONV	107	AC,P5V
INTEGRA	5351 5122-EZ	5122,B	103	AVC,C2,Vi,St,SU
INTEGRA	5529 VT2PRIB	VT2P,B	105	AC,P2,St,SU
INTEGRA	5719 VT2PRIB	VT2P,B	107	AC,P2,St,SU
INTEGRA	5770 STXRIB	STX,B	107	AC,P5V,St,SU
LATHAM	LH 5377 VT2P RIB	VT2P,B	103	AC250
LATHAM	LH 5389 SS RIB	STX,B	103	AC,P5V
LATHAM	LH 5517 VT2P RIB	VT2P,B	105	AC250
LATHAM	LH 5725 VT2P RIB	VT2P,B	107	AC250
LATHAM	LH 5739 SS RIB	STX,B	107	AC,P5V
MILLER HYBRIDS	M05-72	CONV	105	MSC
NK BRAND	NK0472-5222-EZR	5222,B	104	AVC,C2,Vi
NK BRAND	NK0624-5222-EZR	5222,B	106	AVC,C2,Vi

Company/Brand	Brand/Product	Technology	RM	Seed Treat.
NORTHSTAR	NS 103-537	VT2P,B	103	NA
PIONEER	P0421Q GC	QR,B	104	NA
PIONEER	P0589 CONV GC	CONV	105	NA
PIONEER	P0688Q GC	QR	106	NA
RENK	RK642VT2P	VT2P,B	103	AC,P2
RENK	RK700SSTX	STX	107	AC,P5V
RENK	RK710DGV2P	VT2PDG,B	106	AC,P2
RENK	RK726H	PC	106	AC,P2
TITAN PRO	20-05	STX,B	105	AC250
TITAN PRO	24-04	PC	104	C2
TITAN PRO	26-03 5222	5222,B	103	C2
TITAN PRO	84-03 2P	VT2P,B	103	AC250
TITAN PRO	96-06 2P	VT2P,B	106	AC250
VIKING	42-05	CONV	105	CM,C2,Sb
VIKING	51-04	CONV	104	CM,C2,Sb
VIKING	84-05	CONV	105	CM,C2,Sb
WYFFELS	W4196RIB	VT2P,B	105	AC250
WYFFELS	W4246	VT2P	105	AC250
WYFFELS	W5086RIB	VT2P,B	107	AC250
WYFFELS	W5516RIB	VT2P,B	108	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*

3111A	Agrisure® Artesian® Viptera® 3111 (Vip,CB,RW,LL,GT)	STX	SmartStax®
3220	Agrisure® Viptera® 3220 (Vip,CB,HX,LL,GT)	VT2P	Genuity® VT Double PRO®
5122	Agrisure® Duracade™ 5122	VT2PDG	Genuity® VT Double PRO® DroughtGard®
5222	Agrisure® Duracade™ 5222		
AM	Optimum® AcreMax®		
AMXT	Optimum® AcreMax® Xtreme		
AQ	Optimum® AQUAmax®		
B	Blend, Refuge in a Bag (RIB) or EZ-Refuge		
CONV	Conventional		
PC	PowerCore™		
QR	Qrome™		
RR2	Roundup Ready® 2 Corn		

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

Corn Seed Treatments**

AC	Acceleron®, unspecified	AVC,C2,Vi,St,SU	Avicta Complete 250, Vibrance, Stamina, StepUp
AC250	Acceleron 250	AVC,C5,Vi	Avicta Complete 500, Vibrance
ACb	Acceleron B-300 SAT	C2	Cruiser 250
AC,P2	Acceleron, Poncho 250	CM,C2	CruiserMaxx 250
AC,P2,St,SU	Acceleron 250, Stamina, StepUp	CM,C2,Sb	CruiserMaxx 250, SabrEx Innoculant
AC,P5V	Acceleron, Poncho 500/Votivo	CM,C2,Vi	CruiserMaxx 250 with Vibrance
AC,P5V,EDC-B	Acceleron, Basic Poncho 500/Votivo with Enhanced Disease Control	HC	Hefty Complete
AC,P5V,EDC-EL	Acceleron, ELITE Poncho 500/Votivo with Enhanced Disease Control	Lum,P1V	Lumigen Poncho 1250/Votivo
AC,P5V,MAG	Acceleron® Poncho 500/Votivo, Federal ArmorGuard	Lum,P5V	Lumigen Poncho 500/Votivo
AC,P5V,St,SU	Acceleron Poncho 500/Votivo, Stamina, StepUp	MQ	Maxim Quattro
AVC	Avicta® Complete Corn	MSC	Miller Hybrids ShieldCoat™, Vertex
AVC,C2	Avicta Complete 250	NA	Unknown
AVC,C2,Vi	Avicta Complete 250, Vibrance	Vi5	Vibrance® Cinco

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