

Test by: MNS Seed Testing, LLC New Richland, MN

2020 Corn Grain Top 30 Harvest Report

South Dakota Northeast [SDNE] ARLINGTON, SD

Tim Bjorklund, Brookings County, SD 57212

Early-Season Test	91 - 95 Day CRM B2020SDNE02a
Top 30 of 54	For Gross Income (Sorted by Yield) Average of (2) Replications
PREV. CROP/HERB:	Soybean / Roundup, Durango, Sonic, Sharpen
SOIL DESCRIPTION:	Poinsett-Buse-Waubay sandy clay loam, moderately drained, non-irrigated
SOIL CONDITION:	No-Till, very high P, medium K, 5.4 pH, 4.3% OM, 28.4 CEC
PEST MANAGEMENT:	Force, Surestart, Durango, Atrazine, Bellum
FERTILITY - Applied N:	124 Spring, 60 Sidedress
Applied N-P-K (units):	184-75-0
SEEDED - RATE - ROW:	May 15 32.5 /A 30" spacing
HARVESTED - STAND:	Nov 3 30.8 /A

TEST COMMENTS:

This area had a hard frost in mid-September that took some yield. Some select varieties had raccoon damage and left virtually nothing to harvest while corn plots around it were standing and yielding fine. Stalks had good strength and stood well for harvest with the damage done by animals being the only exception. We had good weed control. Some variable plot data could be attributed to animals and wet conditions this spring that affected yield. Side dress application of nitrogen was used this year. Due to damage to several plots in 1 replicate of the early-season test, it was removed from the analysis.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
HEFTY	H4522VT2PRIB	VT2P,B	95	243.8	16.2	1	30.5	846	1
ROB-SEE-CO	RC4535	3110	95	240.4	16.3	1	30.5	834	2
NK BRAND	NK8920-5122-EZR	5122,B	89	230.4	16.7	1	31.2	796	3
HEFTY	H4332VT2PRIB	VT2P,B	93	228.7	15.9	1	31.9	796	4
THUNDER	T6094 VT2P	VT2P,B	94	228.4	15.7	1	31.2	795	5
FEDERAL	4190 VT2PRIB	VT2P,B	91	224.4	15.3	1	31.9	783	6
FEDERAL	4160 VT2PRIB	VT2P,B	91	222.0	15.2	1	30.5	776	7
RENK	RK433VT2PRIB	VT2P,B	92	221.4	16.4	1	30.5	767	9
HEFTY	H4322VT2PRIB	VT2P,B	93	221.2	16.2	1	29.0	768	8
TITAN PRO	82-95 2P	VT2P,B	95	219.2	16.3	1	30.5	760	11
LATHAM	LH 4375 VT2P RIB	VT2P,B	93	218.7	15.4	1	30.5	763	10
ROB-SEE-CO	INNOTECH IC4166	3110A	91	218.1	16.7	1	31.9	754	12
RENK	RK561DGV2PRIB	VT2PDG,B	95	217.6	16.6	1	31.9	753	13
INTEGRA	4041 VT2P	VT2P	90	213.5	15.6	1	29.8	744	14
PIONEER	P9188AMXT GC	AMXT	91	211.8	15.7	1	31.2	738	15
GOLDEN HARVEST	G90Y04-5222A-EZR	5222A,B	92	210.5	17.7	1	31.9	723	20
HEINE	6230	VT2P,B	95	210.4	16.2	1	31.2	730	17
REA	3B912	VT2P,B	91	210.1	15.1	1	31.2	735	16
LATHAM	LH 4517 VT2P RIB	VT2P,B	95	209.0	15.4	1	31.9	729	18
DAIRYLAND	DS-3550AM	AM,B	95	208.9	15.9	1	31.9	726	19
INTEGRA	4119 VT2PRIB	VT2P,B	91	206.0	14.9	1	31.9	721	21
HEFTY	H4102VT2PRIB	VT2P,B	91	205.6	15.2	1	31.9	719	22
INTEGRA	4509 VT2PRIB	VT2P,B	95	204.6	16.3	1	29.0	710	23
LATHAM	LH 4454 VT2P RIB	VT2P,B	94	204.4	16.3	1	31.2	709	24
HEINE	6200	VT2P,B	95	204.3	16.3	1	31.9	708	25
FEDERAL	4185 RR	RR2	91	204.1	17.0	1	31.2	704	27
THUNDER	T6992 VT2P	VT2P,B	92	202.4	15.7	1	30.5	705	26
FEDERAL	4300 VT2PRIB	VT2P,B	93	200.8	15.7	1	31.2	700	28
THUNDER	T6595 VT2P	VT2P,B	95	200.1	16.4	1	31.2	693	30
RENK	RK499VT2P	VT2P	94	199.5	15.5	1	29.8	696	29
DEKALB	DKC47-54RIB CK	STX,B	97	178.7	17.0	1	29.8	617	45

Mark Tollefson

Mark Tollefson

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Averages = **198.0** **16.0** **1** **30.8** **689**

LSD (0.10) = 34.3 0.6 ns

LSD (0.25) = 17.9 0.3 ns

C.V. = 13.3

Historic yield: 181.3 bu/a, 8 yr(s)

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.2 Drying = \$0.025 Prices: GMO = \$3.50

Report Date: 11/04/2020

† 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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Full-Season Test	96 - 100 Day CRM B2020SDNE02b
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PREV. CROP/HERB:	Soybean / Roundup, Durango, Sonic, Sharpen
SOIL DESCRIPTION:	Poinsett-Buse-Waubay sandy clay loam, moderately drained, non-irrigated
SOIL CONDITION:	No-Till, very high P, medium K, 5.4 pH, 4.3% OM, 28.4 CEC
PEST MANAGEMENT:	Force, Surestart, Durango, Atrazine, Bellum
FERTILITY - Applied N:	124 Spring, 60 Sidedress
Applied N-P-K (units):	184-75-0
SEEDED - RATE - ROW:	May 15 32.5 /A 30" spacing
HARVESTED - STAND:	Nov 3 29.4 /A

TEST COMMENTS:

This area had a hard frost in mid-September that took some yield. Some select varieties had raccoon damage and left virtually nothing to harvest while corn plots around it were standing and yielding fine. Stalks had good strength and stood well for harvest with the damage done by animals being the only exception. We had good weed control. Some variable plot data could be attributed to animals and wet conditions this spring that affected yield. Side dress application of nitrogen was used this year. Due to damage to several plots in 1 replicate of the early-season test, it was removed from the analysis.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
LATHAM	LH 4669 SS RIB	STX,B	96	204.9	15.6	1	29.0	714	1
HEFTY	H4732VT2PRIB	VT2P,B	96	203.6	16.5	1	29.1	705	4
THUNDER	T6996 VT2P	VT2P,B	96	203.5	16.4	1	30.5	705	5
GOLDEN HARVEST	G99E68-5122-EZR	5122,B	99	203.0	15.7	1	29.0	707	3
HEINE	6575	VT2P	99	201.3	15.4	1	30.0	702	6
LATHAM	LH 4657 VT2P RIB	VT2P,B	96	200.9	16.2	1	30.5	697	7
FEDERAL	4700 STXRIB	STX,B	97	199.4	15.6	1	29.5	695	9
INTEGRA	4888 VT2PRIB	VT2P,B	98	199.3	15.2	1	29.5	697	8
DAIRYLAND	DS-4000AMXTRIB	AMXT,B	100	198.2	16.1	1	29.5	688	10
RENK	RK600SSTX	STX,B	100	198.1	16.3	1	28.5	687	11
HEINE	7010	VT2P	100	196.4	16.1	1	28.6	682	12
NK BRAND	NK9991-5122-EZR	5122,B	99	196.0	16.3	1	29.0	680	13
FEDERAL	4680 VT2PRIB	VT2P,B	96	195.0	16.1	1	28.0	677	14
DYNA-GRO	D39VC40	VT2P	99	194.3	15.9	1	30.5	676	15
REA	4B976	VT2P,B	97	191.7	15.9	1	29.0	667	16
NK BRAND	NK9930-5122-EZR	5122,B	99	189.9	16.7	1	28.1	656	19
FEDERAL	4800 VT2PRIB	VT2P,B	98	188.9	15.4	1	29.5	659	17
DYNA-GRO	D40VC41	VT2P	100	188.8	16.8	1	29.5	652	23
HEINE	6360VT2P	VT2P	97	188.7	15.4	1	28.5	659	18
INTEGRA	4782 VT2PRIB	VT2P,B	97	187.9	15.3	1	29.0	656	20
RENK	RK579DGV2P	VT2PDG,B	99	187.9	16.0	1	30.0	653	21
FEDERAL	4990 VT2PRIB	VT2P,B	99	187.7	15.8	1	29.5	653	22
ROB-SEE-CO	RC4688	3120,B	96	185.1	15.8	1	29.0	644	24
RENK	RK593VT2PRIB	VT2P,B	97	183.9	14.1	1	30.5	644	25
THUNDER	T6098 VT2P	VT2P,B	98	183.6	15.9	1	28.5	638	27
THUNDER	T6100 VT2P	VT2P,B	100	182.9	15.8	1	29.5	636	28
LATHAM	LH 4989 SS RIB	STX,B	99	182.5	14.7	1	29.0	639	26
HEFTY	H4842VT2P	VT2P	98	182.4	15.7	1	29.5	635	29
TITAN PRO	22-00 2P	VT2P,B	100	181.2	16.0	1	29.5	630	30
HEINE	6550VT2P	VT2P	99	181.2	15.9	1	30.5	630	31
DEKALB	DKC47-54RIB CK	STX,B	97	205.2	16.2	1	30.5	712	2



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Averages = **183.7** **15.9** **1** **29.4** **640**

LSD (0.10) = 17.6 ns ns

LSD (0.25) = 9.2 ns ns

C.V. = 9.1

Historic yield: 181.3 bu/a, 8 yr(s)

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.2 Drying = \$0.025 Prices: GMO = \$3.50

2020 Corn - South Dakota Northeast [SDNE]

Early-Season Test Products (54 Total)

Company/Brand	Product/Brand	Technology	RM	Seed Treat.
DAHLMAN	R47-26VT2PRIB GC	VT2P,B	94	AC250
DAIRYLAND	DS-3162Q	QR,B	91	Lum,P1V
DAIRYLAND	DS-3193AM	AM,B	91	Lum,P1V
DAIRYLAND	DS-3345AM	AM,B	93	Lum,P1V
DAIRYLAND	DS-3366Q	QR,B	93	Lum,P1V
DAIRYLAND	DS-3550AM	AM,B	95	Lum,P5V
DEKALB	DKC47-54RIB CK	STX,B	97	AC,P5V,EDC-EL
DYNA-GRO	D35VC35	VT2P	95	AC,P5V,EDC-B
FEDERAL	4160 VT2PRIB	VT2P,B	91	AC,P2
FEDERAL	4185 RR	RR2	91	AC,P2,MAG
FEDERAL	4190 VT2PRIB	VT2P,B	91	AC,P2,MAG
FEDERAL	4300 VT2PRIB	VT2P,B	93	AC,P2,MAG
FEDERAL	4400 VT2PRIB	VT2P,B	94	AC,P2,MAG
GOLDEN HARVEST	G90Y04-5222A-EZR	5222A,B	92	AVC,C2,Vi
GOLDEN HARVEST	G91V51-3110A	3110A	91	AVC,C2,Vi
HEFTY	H4102VT2PRIB	VT2P,B	91	HC
HEFTY	H4132VT2PRIB	VT2P,B	91	HC
HEFTY	H4322VT2PRIB	VT2P,B	93	HC
HEFTY	H4332VT2PRIB	VT2P,B	93	HC
HEFTY	H4522VT2PRIB	VT2P,B	95	HC
HEINE	6175VT2P	VT2P	93	AC,P5V,EDC-B
HEINE	6200	VT2P,B	95	AC250
HEINE	6210	VT2P	95	AC,P5V
HEINE	6230	VT2P,B	95	AC,P2
HEINE	6450	VT2P	95	AC,P5V,EDC-B
INTEGRA	4041 VT2P	VT2P	90	AC,P5V,St,SU
INTEGRA	4119 VT2PRIB	VT2P,B	91	AC,P2V,St,SU
INTEGRA	4311 VT2P	VT2P	93	AC,P5V,St,SU
INTEGRA	4509 VT2PRIB	VT2P,B	95	AC,P2V,St,SU
LATHAM	LH 4242 VT2P RIB	VT2P,B	92	AC250
LATHAM	LH 4375 VT2P RIB	VT2P,B	93	AC250
LATHAM	LH 4454 VT2P RIB	VT2P,B	94	AC250
LATHAM	LH 4517 VT2P RIB	VT2P,B	95	AC250
NK BRAND	NK8920-5122-EZR	5122,B	89	AVC,C2,Vi
NK BRAND	NK9175-3110A	3110A	91	AVC,C2,Vi
NK BRAND	NK9227-5222A-EZR	5222A,B	92	AVC,C2,Vi

Company/Brand	Brand/Product	Technology	RM	Seed Treat.
PIONEER	P9188AMXT GC	AMXT	91	NA
PIONEER	P9492AM GC	AM,B	94	NA
REA	3B912	VT2P,B	91	AC,P5,B360
REA	3B923	VT2P,B	92	AC,P2,B360
RENK	RK433VT2PRIB	VT2P,B	92	AC,P2
RENK	RK499VT2P	VT2P	94	AC,P2
RENK	RK561DGV2PRIB	VT2PDG,B	95	AC,P2
RENK	RK568VT2P	VT2P,B	95	AC,P2
ROB-SEE-CO	INNOTECH IC4166	3110A	91	AVC,C2
ROB-SEE-CO	RC4343	3220A,B	93	CM,C2
ROB-SEE-CO	RC4427	3220,B	94	CM,C2
ROB-SEE-CO	RC4535	3110	95	CM,C2
THUNDER	T6094 VT2P	VT2P,B	94	AC,P2
THUNDER	T6595 VT2P	VT2P,B	95	AC,P2
THUNDER	T6791 VT2P	VT2P,B	91	AC,P2
THUNDER	T6992 VT2P	VT2P,B	92	AC,P2
THUNDER	T6993 VT2P	VT2P,B	93	AC,P2
TITAN PRO	82-95 2P	VT2P,B	95	AC250

2020 Corn - South Dakota Northeast [SDNE]

Full-Season Test Products (54 Total)

Company/Brand	Product/Brand	Technology	RM	Seed Treat.
DAIRYLAND	DS-3715AMRIB	AM,B	97	Lum,P5V
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
DEKALB	DKC47-54RIB CK	STX,B	97	AC,P5V,EDC-EL
DEKALB	DKC49-44RIB GC	STX,B	99	NA
DYNA-GRO	D39VC40	VT2P	99	AC,P5V,EDC-B
DYNA-GRO	D40VC41	VT2P	100	AC,P5V,EDC-B
FEDERAL	4680 VT2PRIB	VT2P,B	96	AC,P2,MAG
FEDERAL	4700 STXRIB	STX,B	97	AC,P5V,MAG
FEDERAL	4800 VT2PRIB	VT2P,B	98	AC,P2
FEDERAL	4990 VT2PRIB	VT2P,B	99	AC,P2,MAG
FEDERAL	4999 VT2PRIB	VT2P,B	99	AC,P2,MAG
GOLDEN HARVEST	G00H12-5122-EZR	5122,B	100	AVC,C2,Vi
GOLDEN HARVEST	G96R61-5222-EZR	5222,B	96	AVC,C2,Vi
GOLDEN HARVEST	G99E68-5122-EZR	5122,B	99	AVC,C2,Vi
HEFTY	H4612VT2PRIB	VT2P,B	96	HC
HEFTY	H4732VT2PRIB	VT2P,B	96	HC
HEFTY	H4842VT2P	VT2P	98	HC
HEFTY	H4933VT2PDGRIB	VT2PDG,B	99	HC
HEFTY	H5003VT2PDGRIB	VT2PDG,B	100	HC
HEINE	6360VT2P	VT2P	97	AC,P5V,EDC-EL
HEINE	6500	VT2P	98	AC,P2
HEINE	6550VT2P	VT2P	99	AC,P5V,EDC-EL
HEINE	6575	VT2P	99	AC,P5V,EDC-EL
HEINE	7010	VT2P	100	AC,P5V,EDC-B
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
LATHAM	LH 4657 VT2P RIB	VT2P,B	96	AC250
LATHAM	LH 4669 SS RIB	STX,B	96	AC,P5V
LATHAM	LH 4937 VT2P RIB	VT2P,B	99	AC250
LATHAM	LH 4989 SS RIB	STX,B	99	AC,P5V
NK BRAND	NK9653-5222-EZR	5222,B	96	AVC,C5,Vi
NK BRAND	NK9930-5122-EZR	5122,B	99	AVC,C5,Vi

Company/Brand	Brand/Product	Technology	RM	Seed Treat.
NK BRAND	NK9991-5122-EZR	5122,B	99	AVC,C5,Vi
PIONEER	P0075Q GC	QR	100	NA
PIONEER	P9998Q GC	QR	99	NA
REA	4B965	VT2P,B	97	AC,P2,B360
REA	4B976	VT2P,B	97	AC,P5,B360
RENK	RK579DGVT2P	VT2PDG,B	99	AC,P2
RENK	RK593VT2PRIB	VT2P,B	97	AC,P2
RENK	RK600SSTX	STX,B	100	AC,P5V
ROB-SEE-CO	RC4688	3120,B	96	AVC,C2
ROB-SEE-CO	RC4759	3110	97	CM,C2
ROB-SEE-CO	RC4848	3000GT	98	CM,C2
THUNDER	T6098 VT2P	VT2P,B	98	AC,P2
THUNDER	T6100 VT2P	VT2P,B	100	AC,P2
THUNDER	T6996 VT2P	VT2P,B	96	AC,P2
THUNDER	T6999 VT2P	VT2P,B	99	AC,P2
TITAN PRO	22-00 2P	VT2P,B	100	AC250
TITAN PRO	86-96 2P	VT2P,B	96	AC250
TITAN PRO	92-99 2P	VT2P,B	99	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
 3110 Agrisure® Viptera® 3110 (Vip, CB,LL,GT)
 3110A Agrisure® Artesian® Viptera® 3110 (Vip, CB,LL,GT)
 3120 Agrisure® 3120 (CB,HX,LL,GT)
 3220 Agrisure® Viptera® 3220 (Vip,CB,HX,LL,GT)
 3220A Agrisure® Artesian® Viptera® 3220
 (Vip,CB,HX,LL,GT)
 5122 Agrisure® Duracade™ 5122
 5222 Agrisure® Duracade™ 5222
 5222A Agrisure® Duracade™ Artesian® 5222
 AM Optimum® AcreMax®
 AMXT Optimum® AcreMax® Xtreme
 B Blend, Refuge in a Bag (RIB) or EZ-Refuge
 QR Qrome™
 RR2 Roundup Ready® 2 Corn
 STX SmartStax®
 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
AC250	Acceleron 250
AC,P2	Acceleron, Poncho 250
AC,P2,B360	Acceleron Poncho 250 with BioRise™ B-360 ST
AC,P2,MAG	Acceleron 250, Federal ArmourGuard
AC,P2,St,SU	Acceleron 250, Stamina, StepUp
AC,P2V,St,SU	Acceleron Poncho 250 Votivo, Stamina, StepUp
AC,P5,B360	Acceleron Poncho 500 with BioRise™ B-360 ST
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,MAG	Acceleron® Poncho 500/Votivo, Federal ArmorGuard
AC,P5V,St,SU	Acceleron Poncho 500/Votivo, Stamina, StepUp
AVC,C2	Avicta Complete 250
AVC,C2,Vi	Avicta Complete 250, Vibrance
AVC,C5,Vi	Avicta Complete 500, Vibrance
CM,C2	CruiserMaxx 250
HC	Hefty Complete
Lum,P1V	Lumigen Poncho 1250/Votivo
Lum,P5V	Lumigen Poncho 500/Votivo

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