

2018 Corn Grain Top 30 Harvest Report

North Dakota Southeast [NDSE] LITCHVILLE
Mark Formo, Barnes County, ND 58461



Test by: Northland F.I.R.S.T., LLC, Moorhead, MN

PREV. CROP/HERB: Soybean / Roundup, Authority Plus
SOIL DESCRIPTION: Lismore-Kranzburg silty clay loam, mod. well drained, non-irrigated
SOIL CONDITION: Conventional w/ fall till, medium P, high K, 5.7 pH, 3.4% OM, 26.2 CEC
PEST MANAGEMENT: Roundup, atrazine, Reznor
FERTILITY - Applied N: 115 Spring
Applied N-P-K (units): 115-0-0
SEEDING - RATE - ROW: May 10 33,000 /A 30" spacing
HARVESTED - STAND: Nov 27 31,300 /A

Early-Season Test

85 - 90 Day CRM
B2018NDSE04a

Top 30 of 40

For Gross Income (Sorted by Yield)

Average of (3) Replications

Company/Brand	Product/Brand†	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Golden Harvest	G88F37-3010A	3010,A	88	238.0	18.7	0	30.4	644	1
Hefty	H3712VT2PRIB	VT2P,B	87	231.6	17.3	1	30.9	635	2
Proseed	1790VT2PRIB	VT2P,B	90	224.9	18.9	0	30.4	608	4
Hefty	H4012VT2PRIB	VT2P,B	90	224.3	18.3	0	31.9	610	3
NK Brand	NK8618-3011A	3011,A	86	220.3	19.2	0	31.9	594	6
REA	3B902	VT2P,B	90	218.3	18.7	0	32.4	591	7
Dairyland	DS-9686	3000GT	86	217.2	18.3	0	30.9	590	8
Latham	LH3937VT2ProRIB	VT2P,B	89	217.2	18.8	0	31.4	588	10
Golden Harvest	G84J92-3011A	3011,A	85	215.8	18.4	0	32.4	586	11
NuTech	5GN-8484	3110,A	84	215.3	17.4	0	30.9	590	9
Hefty	H3622VT2P	VT2P	86	214.9	17.9	0	30.4	586	12
NK Brand	NK8881-3010A	3010,A	88	214.5	18.3	0	31.9	583	14
Hefty	H3922VT2P	VT2P	89	214.0	17.9	0	32.4	584	13
REA	2B861	VT2P,B	86	214.0	18.2	0	32.4	582	16
Latham	LH3695VT2ProRIB	VT2P,B	86	213.1	17.6	0	32.4	583	15
Renk	RK408VT2P	VT2P,B	90	212.6	18.6	1	29.9	576	17
NuTech	5N-886	3011,A	86	212.2	18.5	0	31.4	576	18
Thunder	6888VT2P	VT2P,B	88	210.7	18.3	0	31.9	573	19
Mustang	3287VT2PRIB	VT2P,B	87	207.9	16.7	0	30.9	573	20
Mustang	3286VT2PRIB	VT2P,B	86	206.2	17.7	0	30.4	563	21
Latham	LH3755VT2ProRIB	VT2P,B	87	205.5	17.8	0	30.9	561	22
NK Brand	NK8920-3120-EZR	3120,B	89	204.2	18.6	0	30.4	553	25
Dekalb	DKC35-88RIB GC	VT2P,B	85	204.1	17.6	0	30.4	558	23
NuTech/G2 Gen	E5FN-A386	OI	86	203.9	17.8	0	30.4	557	24
Mustang	2290VT2PRIB	VT2P,B	90	203.7	18.5	0	31.4	553	26
Golden Harvest	G89A09-3120-EZR	3120,B	89	203.6	19.6	0	32.4	547	28
Taylor	8190VT2ProRIB GC	VT2P,B	90	202.2	18.2	0	30.9	550	27
Thunder	6986VT2P	VT2P	86	199.6	18.1	0	30.9	543	29
REA	2B872	VT2P,B	87	198.1	17.3	0	30.9	543	30
Dairyland	RPM-2918AM	AM,B	85	198.0	17.5	3	30.4	542	31
Pioneer	P9188AM CK	AM,B	91	220.8	18.8	0	31.9	597	5

Averages = **207.9** **18.0** **0** **31.3** **566**

LSD (0.10) = 12.8 0.7 ns

Luke Brendemuhl LSD (0.25) = 6.7 0.4 ns

luke.brendemuhl@firstseedtests.com, (218) 790-4497 C.V. = 5.8

Prev. years average yield, 172.6 bu/a, 2 yrs

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$2.80; non-GMO = \$2.80

Test Comments: The plot was planted in a well drained part of the field a day before Mark, our plot host, planted the surrounding field.

The growing season in the Litchville area was exceptionally wet, an estimated 17 inches of precipitation above average. The wet fall conditions made for a very difficult time to harvest crops, with many soybean and corn acres still unharvested at this late date.

† 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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Report Date: 11/28/2018 Revised:

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 SOIL CONDITION: Conventional w/ fall till, medium P, high K, 5.7 pH, 3.4% OM, 26.2 CEC
 PEST MANAGEMENT: Roundup, atrazine, Reznor
 FERTILITY - Applied N: 115 Spring
 Applied N-P-K (units): 115-0-0
 SEEDING - RATE - ROW: May 10 33,000 /A 30" spacing
 HARVESTED - STAND: Nov 27 31,400 /A

Full-Season Test
91 - 95 Day CRM
 B2018NDSE04b

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For Gross Income (Sorted by Yield)
 Average of (3) Replications

Company/Brand	Product/Brand†	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Hefty	H4522VT2P	VT2P	95	239.4	20.0	0	32.9	640	1
Dyna-Gro	D34VC54	VT2P	94	238.4	19.8	0	31.4	639	2
Mustang	3294VT2PRIB	VT2P,B	94	238.1	20.1	0	32.4	636	3
NK Brand	NK9227-3220A-EZR	3220,A,B	92	230.6	20.5	0	30.9	614	4
Thunder	6794VT2P	VT2P,B	94	228.0	20.2	0	30.4	609	5
NuTech	5G-293	3110,A	93	226.8	19.7	0	30.4	608	6
Mustang	2291VT2PRIB	VT2P,B	91	224.5	19.2	0	31.9	605	7
Dairyland	DS-7294A	3220	94	223.0	19.7	0	30.9	598	9
Golden Harvest	G90Y04-3220A-EZR	3220,A,B	92	222.1	20.5	0	30.9	591	11
Proseed	1794VT2PRIB	VT2P,B	94	221.5	20.3	0	31.4	591	12
Hefty	H4324SS	STX	93	221.2	19.3	1	31.4	596	10
Latham	LH4437VT2ProRIB	VT2P,B	94	220.8	20.6	0	30.9	587	15
Hefty	H4222VT2P	VT2P	92	220.1	19.7	0	32.4	590	13
Latham	LH4187VT2Pro	VT2P	91	219.6	19.5	0	31.4	590	14
Proseed	1395VT2P GC	VT2P	95	218.8	20.1	0	31.4	585	16
Thunder	6993VT2P	VT2P	93	217.8	19.8	0	32.9	584	18
Golden Harvest	G95D32-3220-EZR	3220,B	95	216.9	20.3	0	32.4	579	22
Hefty	H4322VT2P	VT2P	93	216.6	19.1	0	31.4	584	19
Thunder	6791VT2P	VT2P,B	91	216.3	18.8	0	30.9	585	17
Renk	8-536VT2P	VT2P	94	216.2	19.5	0	30.9	581	20
Thunder	6992VT2P	VT2P	92	215.4	19.2	0	31.9	581	21
REA	3B923	VT2P,B	92	214.9	20.3	0	30.9	573	24
Renk	RK433RR	RR2	92	213.1	20.3	0	31.4	568	26
Latham	LH4517VT2Pro	VT2P	95	212.2	19.4	0	31.4	571	25
Latham	EX4325VT2Pro	VT2P	93	211.8	18.2	0	30.9	576	23
Renk	RK568VT2P	VT2P,B	94	211.5	20.5	0	31.9	563	27
NuTech	E5GN-A395	3110	95	207.4	19.8	2	32.4	556	29
NK Brand	NK9505-3110	3110	95	207.0	19.1	0	30.4	558	28
Dyna-Gro	D32VC41	VT2P	92	205.6	19.2	0	30.9	554	30
REA	3D910	VT2P,DG,B	91	203.3	18.2	0	29.9	553	31
Pioneer	P9188AM CK	AM,B	91	224.0	19.3	0	30.9	603	8

Averages = **218.8** **19.7** **0** **31.4** **587**

LSD (0.10) = 11.2 0.6 1

LSD (0.25) = 5.9 0.3 0

C.V. = 4.8 Prev. years average yield, 172.6 bu/a, 2 yrs

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$2.80; non-GMO = \$2.80

Test Comments: *The plot was planted in a well drained part of the field a day before Mark, our plot host, planted the surrounding field. The growing season in the Litchville area was exceptionally wet, an estimated 17 inches of precipitation above average. The wet fall conditions made for a very difficult time to harvest crops, with many soybean and corn acres still unharvested at this late date.*

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Early-Season Test Products (40 Total)

Company/Brand	Product/Brand	Technol.	Seed Trt.	RM	Company/Brand	Product/Brand	Technol.	Seed Trt.	RM
Dairyland	DS-9686	3000GT	CM,C5,Vi,In	86					
Dairyland	RPM-2918AM	AM,B	CM,C2,R,Lu	85					
Dekalb	DKC35-88RIB GC	VT2P,B	AC,P2	85					
Dyna-Gro	D27VC87	VT2P	AC,P5V	87					
Golden Harvest	G84J92-3011A	3011,A	AVC,C2,Vi	85					
Golden Harvest	G88F37-3010A	3010,A	AVC,C2,Vi	88					
Golden Harvest	G89A09-3120-EZR	3120,B	AVC,C2,Vi	89					
Hefty	H3622VT2P	VT2P	HC	86					
Hefty	H3712VT2PRIB	VT2P,B	HC	87					
Hefty	H3922VT2P	VT2P	HC	89					
Hefty	H4012VT2PRIB	VT2P,B	HC	90					
Latham	LH3695VT2ProRIB	VT2P,B	AC,P5V	86					
Latham	LH3755VT2ProRIB	VT2P,B	AC,P2	87					
Latham	LH3937VT2ProRIB	VT2P,B	AC,P5V	89					
Latham	LH4015VT2Pro	VT2P	AC,P5V	90					
Mustang	2290VT2PRIB	VT2P,B	AC,P2	90					
Mustang	3286VT2PRIB	VT2P,B	AC,P2	86					
Mustang	3287VT2PRIB	VT2P,B	AC,P2	87					
NK Brand	NK8618-3011A	3011,A	AVC,C2,Vi	86					
NK Brand	NK8881-3010A	3010,A	AVC,C2,Vi	88					
NK Brand	NK8920-3120-EZR	3120,B	AVC,C2,Vi	89					
NuTech	5BN-2889	3010	CM,C2,Vi	89					
NuTech	5GN-8484	3110,A	MQ,P5V,R	84					
NuTech	5N-886	3011,A	MQ,P5V,R	86					
NuTech/G2 Gen	E5FN-A386	OI	MQ,P5V,R	86					
Pioneer	P9188AM CK	AM,B	MQ,C2	91					
Proseed	1689VT2PRIB	VT2P,B	AC,P2	89					
Proseed	1787VT2PRIB	VT2P,B	AC,P2	87					
Proseed	1790VT2PRIB	VT2P,B	AC,P2	90					
REA	2B861	VT2P,B	AC,P2	86					
REA	2B872	VT2P,B	AC,P5V	87					
REA	3B891	VT2P,B	AC,P5V	89					
REA	3B902	VT2P,B	AC,P2	90					
Renk	RK287VT2P	VT2P,B	AC,P2	87					
Renk	RK408VT2P	VT2P,B	AC,P2	90					
Taylor	8190VT2ProRIB GC	VT2P,B	AC,P2	90					
Thunder	6789VT2P	VT2P,B	AC,P2	89					
Thunder	6888VT2P	VT2P,B	AC,P2	88					
Thunder	6986VT2P	VT2P	AC,P2	86					
Thunder	6987VT2P	VT2P	AC,P2	87					

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Full-Season Test Products (32 Total)

Company/Brand	Product/Brand	Technol.	Seed Trt.	RM	Company/Brand	Product/Brand	Technol.	Seed Trt.	RM
Dairyland	DS-7294A	3220	CM,C5,Vi,In	94					
Dyna-Gro	D32VC41	VT2P	AC,P5V	92					
Dyna-Gro	D34VC54	VT2P	AC,P5V	94					
Golden Harvest	G90Y04-3220A-EZR	3220,A,B	AVC,C2,Vi	92					
Golden Harvest	G95D32-3220-EZR	3220,B	AVC,C2,Vi	95					
Hefty	H4222VT2P	VT2P	HC	92					
Hefty	H4322VT2P	VT2P	HC	93					
Hefty	H4324SS	STX	HC	93					
Hefty	H4522VT2P	VT2P	HC	95					
Latham	EX4325VT2Pro	VT2P	AC,P5V	93					
Latham	LH4187VT2Pro	VT2P	AC,P5V	91					
Latham	LH4437VT2ProRIB	VT2P,B	AC,P2	94					
Latham	LH4517VT2Pro	VT2P	AC,P5V	95					
Mustang	2291VT2PRIB	VT2P,B	AC,P2	91					
Mustang	3294VT2PRIB	VT2P,B	AC,P2	94					
NK Brand	NK9227-3220A-EZR	3220,A,B	AVC,C2,Vi	92					
NK Brand	NK9505-3110	3110	AVC,C2,Vi	95					
NuTech	5G-293	3110,A	MQ,P5V,R	93					
NuTech	E5GN-A395	3110	AVC,Vi	95					
Pioneer	P9188AM CK	AM,B	MQ,C2	91					
Proseed	1395VT2P GC	VT2P	AC,P2	95					
Proseed	1591VT2PRIB	VT2P,B	AC,P2	91					
Proseed	1794VT2PRIB	VT2P,B	AC,P2	94					
REA	3B923	VT2P,B	AC,P2	92					
REA	3D910	VT2P,DG,B	AC,P5V	91					
Renk	8-536VT2P	VT2P	AC,P2	94					
Renk	RK433RR	RR2	AC,P2	92					
Renk	RK568VT2P	VT2P,B	AC,P2	94					
Thunder	6791VT2P	VT2P,B	AC,P2	91					
Thunder	6794VT2P	VT2P,B	AC,P2	94					
Thunder	6992VT2P	VT2P	AC,P5V	92					
Thunder	6993VT2P	VT2P	AC,P2	93					

Footnotes and Abbreviation Descriptions

Brand Footnotes

^	Innotech™ brand seed is distributed by Rob-See-Co, LLC. Phoenix® brand seed is distributed by Advanta Seeds. Power Plus® brand seed is distributed by Burrus. Innotech™ and Phoenix® are trademarks 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 (CB,RW,LL,GT)	E	Enlist™ (2,4-D, glyphosate, fop herbicide tolerance)
3010	Agrisure® 3010 (CB,LL,GT)	GT	Agrisure® GT
3011,A	Agrisure® Artesian® (CB,RW,LL,GT)	HX	Herculex® 1, contains LL
3110	Agrisure® Viptera® 3110 (Vip, CB,LL,GT)	HXRW	Herculex® Rootworm, contains LL
3111	Agrisure® Viptera® 3111 (Vip,CB,RW,LL,GT)	HXT	Herculex® Xtra (HX,HXRW,LL)
3120	Agrisure® 3120 (CB,HX,LL,GT)	LL	LibertyLink®
3122	Agrisure® 3122 (CB,HXX,RW,LL,GT)	None	conventional corn
3220	Agrisure® Viptera® 3220 (Vip,CB,HX,LL,GT)	OI	Optimum® Intrasect®, YHR (YGCB,HX,LL,RR2)
A	Agrisure® Artesian®	OIX	Optimum® Intrasect® Xtra, YXR (YGCB,HXT,LL,RR2)
AM	Optimum® AcreMax® (YGCB,HX,LL,RR2)	OIXT	Optimum® Intrasect® Xtreme (YGCB,HXT,RW,LL,RR2)
AMT	Optimum® AcreMax® TRIsect (HX,RW,LL,RR2)	PC	PowerCore™ (HX, VT2P)
AMX	Optimum® AcreMax® Xtra (YGCB,HXT,LL,RR2)	RR2	Roundup Ready® 2 Corn
AMXT	Optimum® AcreMax® Xtreme (YGCB,HXT,RW,LL,RR2)	RW	Agrisure® Rootworm
AQ	Optimum® AQUAMax®	STX	SmartStax® (VT3P,HXT,RR2,LL)
B	Refuge blend product	VT2P	Genuity® VT Double PRO®
CB	Agrisure® Corn Borer	VT3P	Genuity® VT Triple PRO®
DG	Genuity® DroughtGard®	YGCB	YieldGard® Corn Borer

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

Corn Seed Treatments**

?	information not provided	Lu	Lumivia™
A	Allegiance®	M	Maxim XL®
AC	Acceleron® fungicide products	MQ	Maxim Quattro®
AL2500	Alert 2500	None	untreated
At	Actellic®	P2, P5, P1	Poncho® at 0.25, 0.5 and 1.25 mg ai/seed, respectively
AVC	Avicta® Complete Corn	R	Raxil®
C2, C5, C1	Cruiser® at 0.25, 0.5 and 1.25 mg ai/seed, respectively	Sa	Sativa™
CE	Cruiser Extreme®	Se	Sebring™
CM	CruiserMaxx® Corn	Sn	Senator™
D	Dynasty®	Sp	Spirato™
Es	Escalate®	SC	SHIELDCoat™
HC	Hefty Complete	V	Votivo®
In	Intego™ Solo	Vi	Vibrance®
L	Lorsban®		

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