

Test by: North Iowa F.I.R.S.T., Inc Sanborn, IA

2019 Soybeans Top 30 Harvest Report

Iowa North [IANO] OSAGE, IA

Dale Hemann, Mitchell County, IA 50461

Early-Season Test	1.7 - 2.1 Day CRM S2019IANO03a
Top 30 of 45	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Roundup, Harness Xtra
SOIL DESCRIPTION:	Klinger-Flagler silty clay loam, moderately drained, non-irrigated
SOIL CONDITION:	very high P, high K, 6.4 pH, 3.8% OM, 17.7 CEC
TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	Roundup, Outlook, Flexstar
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 14 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 18 131.9 /A

TEST COMMENTS:

Cool and wet conditions during the spring delayed planting in the area. The rest of the season brought consistent showers with 8.4" in the last 3 weeks of September alone. This site received 27.2" from planting through October 1, 7.1" above the 30 year average. Plants were relatively short with very little lodging. Soil fertility was excellent, and a fungicide application was made to protect the crop during the wet season, but overall yield was a couple bushels below the 10 year average of IANO. Windy conditions removed about 1% grain moisture while harvesting the plot, explaining why grain moisture from the early season test was slightly higher than the full season test.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
ASGROW	AG19X0	RRX	1.9	R	58.2	14.2	1	139.6	493	1
FS HISOY	HS 19A50	RR2Y	1.9	R	57.6	14.0	1	134.7	488	2
TITAN PRO	20E9	E3	2.0	R	56.7	14.3	1	131.7	481	3
CORNELIUS	CB21X55	RRX	2.1	R	56.1	14.1	1	125.1	476	4
CHAMPION	2190EN	E3	2.1	R	55.8	14.2	1	135.1	473	5
LEGEND	LS 21X003N	RRX	2.1	R	55.7	14.2	1	131.2	472	6
NK BRAND	S21-W8X	RRX	2.1	R	55.6	14.0	1	130.7	472	7
KRUGER	K2X-1862	RRX	1.8	R	55.3	14.0	1	129.4	469	8
FS HISOY	HS 18X70	RRX	1.8	R	55.1	14.0	1	130.9	467	9
KRUGER	K2X-2073	RRX	2.0	R	54.9	13.8	1	135.7	466	10
TITAN PRO	19E8	E3	1.9	R	54.8	14.2	1	131.2	465	11
LATHAM	L 1748R2	RR2Y	1.7	R	54.7	14.1	1	132.4	464	12
GENESIS	G2140E	E3	2.1	R	54.5	14.1	1	131.0	462	14
PIONEER	P18A98X §	RRX	1.8	R	54.5	13.7	1	131.7	462	13
KRUGER	K2X-2052	RRX	2.0	R	54.4	14.1	1	129.9	461	15
KRUGER	K2X-1773	RRX	1.7	MR	54.3	14.1	1	129.3	460	16
NK BRAND	S14-U9X	RRX	1.4	MR	54.0	14.1	1	137.2	458	17
CORNELIUS	P3 2018E	E3	1.8	R	53.8	14.3	1	130.7	456	18
NORTHSTAR	NS 62115NXR2	RRX	2.1	R	53.7	14.1	1	126.6	455	19
ASGROW	AG20X9	RRX	2.0	R	53.5	14.0	1	133.2	454	20
ASGROW	AG17X8	RRX	1.7	R	53.3	14.2	1	134.9	452	21
NORTHSTAR	NS 82024NLG+	LG27	2.0	R	53.1	14.0	1	125.0	450	22
CORNELIUS	CB20X22	RRX	2.0	R	53.0	14.0	1	129.9	449	23
LATHAM	L 2084R2	RR2Y	2.0	R	52.5	14.2	6	135.7	445	25
RENK	RS200NX	RRX	2.1	R	52.5	14.1	2	129.5	445	27
NK BRAND	S20-J5X	RRX	2.0	R	52.5	13.8	1	127.7	445	26
HEFTY	H20X0	RRX	2.0	R	52.4	14.1	1	133.1	444	28
LATHAM	L 2159 R2X	RRX	2.1	R	51.9	14.0	1	131.0	440	29
TITAN PRO	20GL8	LG27	2.0	R	51.4	14.0	1	127.0	436	30
CREDENZ	CZ 2040GTLL	LG27	2.0	R	51.0	13.9	1	132.0	433	31
CROPLAN	R2C2200 CK	RR2Y	2.2	R	52.5	14.1	1	137.9	445	24

Corey Rozenboom

Corey Rozenboom

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Averages =	52.4	14.1	1	131.9	445
LSD (0.10) =	2.4	0.2	2		
LSD (0.25) =	1.3	0.1	1		
C.V. =	4.3				

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.02 Prices: GMO = \$8.50

Report Date: 10/23/2019

Revised:10/23/2019 (entry correction to USB sponsored)

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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Full-Season Test	2.2 - 2.5 Day CRM S2019IANO03b
Top 30 of 45	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Roundup, Harness Xtra
SOIL DESCRIPTION:	Klinger-Flagler silty clay loam, moderately drained, non-irrigated
SOIL CONDITION:	very high P, high K, 6.4 pH, 3.8% OM, 17.7 CEC
TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	Roundup, Outlook, Flexstar
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 14 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 18 132.6 /A

TEST COMMENTS:

Cool and wet conditions during the spring delayed planting in the area. The rest of the season brought consistent showers with 8.4" in the last 3 weeks of September alone. This site received 27.2" from planting through October 1, 7.1" above the 30 year average. Plants were relatively short with very little lodging. Soil fertility was excellent, and a fungicide application was made to protect the crop during the wet season, but overall yield was a couple bushels below the 10 year average of IANO. Windy conditions removed about 1% grain moisture while harvesting the plot, explaining why grain moisture from the early season test was slightly higher than the full season test.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
KRUGER	K2X-2283	RRX	2.2	R	58.1	12.8	1	127.5	494	1
HEFTY	H24X8	RRX	2.4	MR	56.7	13.9	1	129.2	481	2
TITAN PRO	22E8	E3	2.2	R	55.6	13.8	1	129.9	472	3
CORNELIUS	P3 2025B	LG27	2.5	R	54.3	13.3	1	136.1	461	4
PIONEER	P25A70R §	RR	2.5	R	54.1	13.4	1	134.1	459	7
FS HISOY	HS 24X80	RRX	2.4	R	54.1	12.6	1	133.7	460	6
LATHAM	L 2395 LLGT27	LG27	2.3	R	53.9	13.4	1	134.9	458	8
CREDENZ	CZ 2360GTLL	LG27	2.3	MR	53.8	13.8	1	128.5	456	9
ASGROW	AG25X0	RRX	2.5	R	53.3	13.1	1	136.9	453	10
TITAN PRO	25E8	E3	2.5	R	53.3	13.0	1	126.0	453	11
GENESIS	G2181GL	LG27	2.2	R	53.2	13.9	1	134.6	451	13
NK BRAND	S25-V8X	RRX	2.5	MR	53.1	13.4	1	130.0	451	12
CREDENZ	CZ 2550GTLL	LG27	2.5	MR	53.0	13.4	1	134.4	450	14
RENK	RS248NX	RRX	2.4	R	52.8	13.8	1	134.7	448	15
CREDENZ	CZ 2579GTLL	LG27	2.5	MR	52.5	14.0	1	130.9	445	17
NORTHSTAR	NS 92335NE3	E3	2.3	R	52.5	13.6	1	133.7	446	16
NORTHSTAR	NS 62294NXR2	RRX	2.2	MR	52.3	13.5	1	133.1	444	18
LATHAM	L 2578 LLGT27	LG27	2.5	R	52.0	13.7	1	137.6	441	19
CORNELIUS	CB24X64	RRX	2.4	R	51.8	13.9	1	128.0	439	20
GOLDEN HARVEST	GH2552X	RRX	2.5	MR	51.7	13.5	1	126.2	439	21
PIONEER	P24A99X §	RRX	2.4	R	51.3	13.8	1	132.4	435	22
KRUGER	K2X-2573	RRX	2.5	R	50.9	12.7	1	132.9	433	23
TITAN PRO	24GL9	LG27	2.4	R	50.7	13.3	1	133.1	431	24
FS HISOY	HS 23X70	RRX	2.3	R	50.5	13.1	1	132.7	429	25
LEGEND	LS 24LGT053N	LG27	2.4	R	50.4	13.3	1	136.1	428	26
NK BRAND	S25-B6X	RRX	2.5	R	50.3	13.4	1	130.0	427	28
CHAMPION	24X98N	RRX	2.4	R	50.3	13.9	1	129.2	427	27
HEFTY	H23X0	RRX	2.3	R	50.1	13.3	1	135.2	426	30
FS HISOY	HS 25X70	RRX	2.5	R	50.1	13.3	1	133.1	426	29
HEFTY	Z2300E	E3	2.3	R	50.1	13.7	1	129.8	425	31
CROPLAN	R2C2200 CK	RR2Y	2.2	R	54.3	13.9	1	135.7	461	5

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Averages =	51.2	13.5	1	132.6	435
LSD (0.10) =	2.5	0.4	1		
LSD (0.25) =	1.3	0.2	1		
C.V. =	4.6				

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.02 Prices: GMO = \$8.50

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Early-Season Test Products (45 Total)

Company/Brand	Product/Brand	Technology	SCN	RM
ASGROW	AG17X8	RRX	R	1.7
ASGROW	AG19X0	RRX	R	1.9
ASGROW	AG20X9	RRX	R	2.0
BECKS	2088FP	LLGT	MR	2.0
CHAMPION	2190EN	E3	R	2.1
CHAMPION	21X99N	RRX	R	2.1
CORNELIUS	CB20X22	RRX	R	2.0
CORNELIUS	CB21X55	RRX	R	2.1
CORNELIUS	P3 2018E	E3	R	1.8
CREDENZ	CZ 1549GTLL	LG27	R	1.5
CREDENZ	CZ 1850GTLL	LG27	MR	1.8
CREDENZ	CZ 1859GTLL	LG27	R	1.8
CREDENZ	CZ 2040GTLL	LG27	R	2.0
CROPLAN	R2C2200 CK	RR2Y	R	2.2
FS HISOY	HS 18X70	RRX	R	1.8
FS HISOY	HS 19A50	RR2Y	R	1.9
FS HISOY	HS 19X90	RRX	R	1.9
FS HISOY	HS 21X90	RRX	R	2.1
GENESIS	G2140E	E3	R	2.1
HEFTY	H17X0	RRX	R	1.7
HEFTY	H20X0	RRX	R	2.0
HEFTY	Z1800E	E3	R	1.8
HEFTY	Z1900E	E3	R	1.9
HOEGEMEYER	1910 E	E3	R	1.9
KRUGER	K2X-1773	RRX	MR	1.7
KRUGER	K2X-1862	RRX	R	1.8
KRUGER	K2X-2052	RRX	R	2.0
KRUGER	K2X-2073	RRX	R	2.0
LATHAM	L 1748R2	RR2Y	R	1.7
LATHAM	L 2084R2	RR2Y	R	2.0
LATHAM	L 2159 R2X	RRX	R	2.1
LATHAM	L 2178 LLGT27	LG27	R	2.1
LEGEND	LS 21X003N	RRX	R	2.1
NK BRAND	S14-U9X	RRX	MR	1.4
NK BRAND	S20-J5X	RRX	R	2.0
NK BRAND	S21-W8X	RRX	R	2.1

Company/Brand	Brand/Product	Technology	RM	SCN
NORTHSTAR	NS 62115NXR2	RRX	R	2.1
NORTHSTAR	NS 82024NLG+	LG27	R	2.0
NORTHSTAR	NS 91895NE3	E3	R	1.8
PIONEER	P18A98X §	RRX	R	1.8
RENK	RS200NX	RRX	R	2.1
TITAN PRO	18E9	E3	R	1.8
TITAN PRO	19E8	E3	R	1.9
TITAN PRO	20E9	E3	R	2.0
TITAN PRO	20GL8	LG27	R	2.0

Full-Season Test Products (45 Total)

Company/Brand	Product/Brand	Technology	SCN	RM
ASGROW	AG25X0	RRX	R	2.5
BECKS	2559X2 GC	RRX	R	2.5
CHAMPION	2220GTLL	LG27	R	2.2
CHAMPION	24X98N	RRX	R	2.4
CORNELIUS	CB24X64	RRX	R	2.4
CORNELIUS	P3 2022B	LG27	R	2.2
CORNELIUS	P3 2023E	E3	R	2.3
CORNELIUS	P3 2025B	LG27	R	2.5
CREDENZ	CZ 2360GTLL	LG27	MR	2.3
CREDENZ	CZ 2550GTLL	LG27	MR	2.5
CREDENZ	CZ 2579GTLL	LG27	MR	2.5
CROPLAN	R2C2200 CK	RR2Y	R	2.2
FS HISOY	HS 22X90	RRX	R	2.2
FS HISOY	HS 23X70	RRX	R	2.3
FS HISOY	HS 24X80	RRX	R	2.4
FS HISOY	HS 25X70	RRX	R	2.5
GENESIS	G2181GL	LG27	R	2.2
GENESIS	G2340E	E3	R	2.3
GOLDEN HARVEST	GH2552X	RRX	MR	2.5
HEFTY	H23X0	RRX	R	2.3
HEFTY	H24X8	RRX	MR	2.4
HEFTY	H25E0	E3	R	2.5
HEFTY	Z2300E	E3	R	2.3
KRUGER	K2X-2283	RRX	R	2.2
KRUGER	K2X-2573	RRX	R	2.5
LATHAM	L 2395 LLGT27	LG27	R	2.3
LATHAM	L 2429 E3	E3	R	2.4
LATHAM	L 2549R2X	RRX	R	2.5
LATHAM	L 2578 LLGT27	LG27	R	2.5
LEGEND	LS 23E052N	E3	R	2.3
LEGEND	LS 24LGT053N	LG27	R	2.4
NK BRAND	S25-B6X	RRX	R	2.5
NK BRAND	S25-V8X	RRX	MR	2.5
NORTHSTAR	NS 62294NXR2	RRX	MR	2.2
NORTHSTAR	NS 82265NLG+	LG27	R	2.2
NORTHSTAR	NS 92335NE3	E3	R	2.3

Company/Brand	Brand/Product	Technology	RM	SCN
PIONEER	P24A99X §	RRX	R	2.4
PIONEER	P25A70R §	RR	R	2.5
RENK	RS248NX	RRX	R	2.4
RENK	RS250NX	RRX	R	2.5
STINE	25GA62	LG27	R	2.5
TITAN PRO	22E8	E3	R	2.2
TITAN PRO	23E9	E3	R	2.3
TITAN PRO	24GL9	LG27	R	2.4
TITAN PRO	25E8	E3	R	2.5

Footnotes and Abbreviations Descriptions

Brand Footnotes

CK	Identifies a check product included in early- and full-season tests.
GC	Grower Comparison product included by FIRST when space permits.
§	United Soybean Board sponsored entry

Soybean Cyst Nematode (SCN) Resistance Rating

S	susceptible
MR	moderate resistance
R	resistant
n/a	info unavailable

Soybeans Technologies*

E3	Enlist E3™
G27	GT27™
LL	LibertyLink®
None	Conventional, non-GMO
RR	Glyphosate tolerant
RR2Y	Genuity® Roundup Ready 2 Yield®
RRX	Roundup Ready 2 Xtend®
ST	Sulfonylurea herbicide tolerant
