

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

## 2019 Soybeans Top 30 Harvest Report

Iowa North Central [IANC] MOORLAND, IA  
Jeff Loehr, Webster County, IA 50566

<b>Early-Season Test</b>	2.1 - 2.5 Day CRM S2019IANC02a
<b>Top 30 of 48</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn / Staunch 2, Impact + Atrazine
<b>SOIL DESCRIPTION:</b>	Nicollet-Webster clay loam, mod. well drained, non-irrigated
<b>SOIL CONDITION:</b>	high P, medium K, 7.2 pH, 5.3% OM, 27.3 CEC
<b>TILLAGE/CULTIVATION:</b>	Conventional W/ Fall Till
<b>PEST MANAGEMENT:</b>	Authority Supreme, Tarsa + Cadet
<b>Applied N-P-K (units):</b>	0-0-0
<b>SEEDED - RATE - ROW:</b>	Jun 5 144.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 19 127.1 /A

### TEST COMMENTS:

Soybeans planted in June were common for this area. 7.25" of rain during May delayed field work as farmers waited for soil conditions to improve to get their crops planted. Once planted, another 4.5" fell on this field during June alone. Emergence issues were relatively minor considering extended periods of saturated soils early in the vegetative growth stages. Plants were short as flowering began during early weeks of July, and much of August was dry. Bean rows never did close completely, but plant health appeared to be excellent with little visible stress.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
CHAMPION	24X98N	RRX	2.4	R	<b>59.8</b>	11.8	1	128.0	508	1
PIONEER	P21A28X GC	RRX	2.1	R	<b>58.9</b>	11.7	1	129.4	501	2
CORNELIUS	P3 2022B	LG27	2.2	R	<b>57.9</b>	11.7	1	125.1	492	4
CHAMPION	21X99N §	RRX	2.1	R	<b>57.9</b>	11.6	1	127.0	492	3
KRUGER	K2X-2172	RRX	2.1	R	<b>57.6</b>	11.7	1	121.5	490	6
ASGROW	AG20X9 §	RRX	2.0	R	<b>57.6</b>	11.6	1	131.0	490	5
GOLDEN HARVEST	GH2230X	RRX	2.2	R	<b>57.3</b>	11.6	1	127.0	487	7
HEFTY	H23X0	RRX	2.3	R	<b>57.2</b>	11.6	1	129.3	486	8
GOLDEN HARVEST	GH2041X §	RRX	2.0	R	<b>55.7</b>	11.5	1	128.7	473	9
LATHAM	L 2482R2	RR2Y	2.4	R	55.6	11.7	1	128.4	473	10
CHAMPION	2220GTLL	LG27	2.2	R	55.5	11.4	1	128.5	472	11
CORNELIUS	CB24X64	RRX	2.4	R	55.2	11.8	1	124.3	469	12
STINE	25GA62 §	LG27	2.5	R	55.2	11.6	1	128.5	469	13
NK BRAND	S21-W8X §	RRX	2.1	R	55.1	11.6	1	128.4	468	14
TITAN PRO	TP-24X87	RRX	2.4	R	54.9	11.8	1	126.0	467	15
HOEGEMEYER	2540 E	E3	2.5	R	54.6	11.7	1	130.2	464	16
PIONEER	P24A99X §	RRX	2.4	R	54.5	11.7	1	124.5	463	17
GOLDEN HARVEST	GH2552X	RRX	2.5	MR	54.4	11.6	1	125.5	462	18
RENK	RS248NX	RRX	2.4	R	53.7	11.6	1	130.5	456	19
FS HISOY	HS 21X90	RRX	2.1	R	53.3	11.5	1	125.5	453	21
CHAMPION	2190EN	E3	2.1	R	53.3	11.7	1	126.0	453	20
ARMOR	X25D59	RRX	2.5	MR	53.2	11.7	1	127.0	452	22
TITAN PRO	22E8	E3	2.2	R	52.9	11.6	1	126.5	450	23
KRUGER	K2X-2573	RRX	2.5	R	52.7	11.6	1	127.0	448	24
GENESIS	G2181GL	LG27	2.2	R	52.7	11.7	1	127.2	448	25
CREDENZ	CZ 2550GTLL	LG27	2.5	MR	52.3	11.6	1	131.2	445	26
FS HISOY	HS 23X70	RRX	2.3	R	52.2	11.7	1	127.8	444	27
HEFTY	H25E0	E3	2.5	R	51.9	11.8	1	130.2	441	28
ARMOR	X21E99	E3	2.1	MR	51.7	11.7	1	126.3	439	29
LATHAM	L 2178 LLGT27	LG27	2.1	R	51.3	11.6	1	130.2	436	30
CROPLAN	R2C2450 CK	RR2Y	2.4	n/a	47.8	11.5	1	124.5	406	41

*Corey Rozenboom*

Corey Rozenboom

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Averages =	<b>52.3</b>	<b>11.7</b>	<b>1</b>	<b>127.1</b>	<b>444</b>
LSD (0.10) =	3.3	0.2	0		
LSD (0.25) =	1.7	0.1	0		
C.V. =	5.9				

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

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Jeff Loehr, Webster County, IA 50566

<b>Full-Season Test</b>	2.6 - 2.9 Day CRM S2019IANC02b
<b>Top 30 of 48</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn / Staunch 2, Impact + Atrazine
<b>SOIL DESCRIPTION:</b>	Nicollet-Webster clay loam, mod. well drained, non-irrigated
<b>SOIL CONDITION:</b>	high P, medium K, 7.2 pH, 5.3% OM, 27.3 CEC
<b>TILLAGE/CULTIVATION:</b>	Conventional W/ Fall Till
<b>PEST MANAGEMENT:</b>	Authority Supreme, Tarsa + Cadet
<b>Applied N-P-K (units):</b>	0-0-0
<b>SEEDED - RATE - ROW:</b>	Jun 5 144.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 19 125.5 /A

### TEST COMMENTS:

Soybeans planted in June were common for this area. 7.25" of rain during May delayed field work as farmers waited for soil conditions to improve to get their crops planted. Once planted, another 4.5" fell on this field during June alone. Emergence issues were relatively minor considering extended periods of saturated soils early in the vegetative growth stages. Plants were short as flowering began during early weeks of July, and much of August was dry. Bean rows never did close completely, but plant health appeared to be excellent with little visible stress.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
CHAMPION	27X90N	RRX	2.7	R	<b>57.7</b>	13.3	1	126.6	490	1
GOLDEN HARVEST	GH2981X	RRX	2.9	R	<b>54.2</b>	12.9	1	129.0	461	2
PIONEER	P27A17X	RRX	2.7	R	<b>54.2</b>	11.8	1	124.9	461	3
RENK	RS280NX	RRX	2.8	R	<b>54.2</b>	13.0	1	124.3	461	4
FS HISOY	HS 29X80	RRX,ST	2.9	R	<b>53.2</b>	12.7	1	126.3	452	5
LEGEND	LS 29X052N	RRX	2.9	R	<b>53.2</b>	12.8	1	130.9	452	6
HEFTY	H28X0	RRX	2.8	R	<b>52.9</b>	12.8	1	124.3	450	7
KRUGER	K2X-2863	RRX	2.8	R	<b>52.8</b>	11.8	1	121.5	449	8
GENESIS	G2840E	E3	2.7	R	51.7	12.0	1	125.7	439	9
FS HISOY	HS 27X90	RRX	2.7	R	51.5	12.4	1	122.0	438	10
HEFTY	Z2700E	E3	2.7	R	50.9	11.9	1	126.9	433	11
KRUGER	K2X-2971	RRX	2.9	R	50.9	13.1	1	118.3	433	12
GOLDEN HARVEST	GH2788X §	RRX	2.7	R	50.7	11.8	1	128.8	431	13
LATHAM	L 2839 LLGT27	LG27	2.8	R	50.5	12.1	1	128.8	429	14
NK BRAND	S29-K3X	RRX	2.9	R	50.3	12.2	1	127.7	428	15
ASGROW	AG27X0 §	RRX	2.7	R	50.2	11.8	1	127.7	427	16
KRUGER	K2X-2652	RRX	2.6	R	50.2	11.9	1	122.3	427	17
PIONEER	P25A70R	RR	2.5	R	50.1	11.8	1	126.3	426	18
CREDENZ	CZ 2889GTLL	LG27	2.8	MR	49.9	12.1	1	127.5	424	19
ARMOR	28-D68	RRX	2.7	MR	49.6	11.8	1	119.4	422	20
CHAMPION	28X78N	RRX	2.8	R	49.5	12.0	1	124.5	421	21
CORNELIUS	CB27X81	RRX	2.7	R	49.4	12.1	1	124.8	420	22
CREDENZ	CZ 2579GTLL	LG27	2.5	MR	49.4	11.9	1	125.1	420	23
ASGROW	AG29X9 §	RRX	2.9	R	49.2	11.9	1	122.5	418	24
CHAMPION	2820GTLL	LG27	2.8	R	49.1	12.0	1	132.4	417	25
KRUGER	K2X-2673	RRX	2.6	R	48.8	11.5	1	124.1	415	27
CORNELIUS	CB26X78	RRX	2.6	R	48.8	13.2	1	122.8	415	26
ASGROW	AG26X0 §	RRX	2.6	R	48.7	11.8	1	122.7	414	28
LATHAM	L 2887R2X	RRX	2.8	R	48.2	11.9	1	128.4	410	29
LEGEND	LS 28X840N	RRX	2.8	MR	48.2	11.9	1	126.5	410	30
CROPLAN	R2C2450 CK	RR2Y	2.4	n/a	44.7	11.6	1	125.0	380	42

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Averages =	<b>48.9</b>	<b>12.2</b>	<b>1</b>	<b>125.5</b>	<b>416</b>
LSD (0.10) =	3.1	0.5	0		
LSD (0.25) =	1.6	0.3	0		
C.V. =	6.1				

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

Report Date: 10/21/2019

Additional reports available at [www.firstseedtests.com](http://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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**Early-Season Test Products (48 Total)**

Company/Brand	Brand/Product	Technology	SCN	RM
ARMOR	X21E99	E3	MR	2.1
ARMOR	X23E09	E3	MR	2.3
ARMOR	X25D59	RRX	MR	2.5
ASGROW	AG20X9 §	RRX	R	2.0
CHAMPION	2190EN	E3	R	2.1
CHAMPION	21X99N §	RRX	R	2.1
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
CREDENZ	CZ 2040GTLL	LG27	R	2.0
CREDENZ	CZ 2360GTLL	LG27	MR	2.3
CREDENZ	CZ 2550GTLL	LG27	MR	2.5
CROPLAN	R2C2450 CK	RR2Y	R	2.4
FS HISOY	HS 21X90	RRX	R	2.1
FS HISOY	HS 22X90	RRX	R	2.2
FS HISOY	HS 23X70	RRX	R	2.3
FS HISOY	HS 24X80	RRX	R	2.4
GENESIS	G2181GL	LG27	R	2.2
GENESIS	G2340E	E3	R	2.3
GOLDEN HARVEST	GH2041X §	RRX	R	2.0
GOLDEN HARVEST	GH2230X	RRX	R	2.2
GOLDEN HARVEST	GH2552X	RRX	MR	2.5
HEFTY	H23X0	RRX	R	2.3
HEFTY	H25E0	E3	R	2.5
HEFTY	H25X0	RRX	R	2.5
HEFTY	Z2300E	E3	R	2.3
HOEGEMEYER	2202 NX	RRX	R	2.2
HOEGEMEYER	2540 E	E3	R	2.5
KRUGER	K2X-2172	RRX	R	2.1
KRUGER	K2X-2283	RRX	R	2.2
KRUGER	K2X-2573	RRX	R	2.5
LATHAM	L 2178 LLGT27	LG27	R	2.1
LATHAM	L 2429 E3	E3	R	2.4
LATHAM	L 2482R2	RR2Y	R	2.4

Company/Brand	Brand/Product	Technology	RM	SCN
LATHAM	L 2597 E3	E3	R	2.5
NK BRAND	S21-W8X §	RRX	R	2.1
NK BRAND	S25-V8X	RRX	MR	2.5
PIONEER	P21A28X GC	RRX	R	2.1
PIONEER	P24A99X §	RRX	R	2.4
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	TP-24X87	RRX	R	2.4

**Full-Season Test Products (48 Total)**

Company/Brand	Brand/Product	Technology	SCN	RM
ARMOR	28-D68	RRX	MR	2.7
ARMOR	X28E89	E3	MR	2.7
ASGROW	AG26X0 §	RRX	R	2.6
ASGROW	AG27X0 §	RRX	R	2.7
ASGROW	AG29X9 §	RRX	R	2.9
CHAMPION	27X90N	RRX	R	2.7
CHAMPION	2820GTLL	LG27	R	2.8
CHAMPION	2889EN	E3	R	2.8
CHAMPION	28X78N	RRX	R	2.8
CORNELIUS	CB26E60	E3	R	2.6
CORNELIUS	CB26X78	RRX	R	2.6
CORNELIUS	CB27X81	RRX	R	2.7
CORNELIUS	P3 1928E	E3	R	2.8
CREDENZ	CZ 2579GTLL	LG27	MR	2.5
CREDENZ	CZ 2830GTLL GC	LG27	R	2.8
CREDENZ	CZ 2889GTLL	LG27	MR	2.8
CROPLAN	R2C2450 CK	RR2Y	R	2.4
FS HISOY	HS 26X90	RRX	R	2.6
FS HISOY	HS 27X90	RRX	R	2.7
FS HISOY	HS 28X70	RRX	R	2.8
FS HISOY	HS 29X80	RRX,ST	R	2.9
GENESIS	G2840E	E3	R	2.7
GOLDEN HARVEST	GH2788X §	RRX	R	2.7
GOLDEN HARVEST	GH2981X	RRX	R	2.9
HEFTY	H28X0	RRX	R	2.8
HEFTY	Z2700E	E3	R	2.7
HEFTY	Z2900E	E3	R	2.9
KRUGER	K2X-2652	RRX	R	2.6
KRUGER	K2X-2673	RRX	R	2.6
KRUGER	K2X-2863	RRX	R	2.8
KRUGER	K2X-2971	RRX	R	2.9
LATHAM	L 2682R2X	RRX	R	2.6
LATHAM	L 2839 LLGT27	LG27	R	2.8
LATHAM	L 2887R2X	RRX	R	2.8
LATHAM	L 2949 E3	E3	R	2.9
LEGEND	LS 25X924N	RRX	MR	2.5

Company/Brand	Brand/Product	Technology	RM	SCN
LEGEND	LS 28X840N	RRX	MR	2.8
LEGEND	LS 29LGT907N	LG27	R	2.9
LEGEND	LS 29X052N	RRX	R	2.9
NK BRAND	S27-M8X	RRX	R	2.7
NK BRAND	S29-K3X	RRX	R	2.9
PIONEER	P25A70R	RR	R	2.5
PIONEER	P27A17X	RRX	R	2.7
RENK	RS280NX	RRX	R	2.8
STINE	27EA23 §	E3	R	2.7
TITAN PRO	28E8	E3	R	2.8
TITAN PRO	28GL9	LG27	R	2.8
TITAN PRO	TP-28X47	RRX	R	2.8

## Footnotes and Abbreviations Descriptions

### Brand Footnotes

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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

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

### Soybeans Technologies\*

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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

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