

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

2019 Soybeans Top 30 Harvest Report

Iowa North Central [IANC] WATERLOO, IA
Rottinghaus Farms, Black Hawk County, IA 50703

Early-Season Test	2.1 - 2.5 Day CRM S2019IANC04a
Top 30 of 47	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Resicore, Atrazine
SOIL DESCRIPTION:	Marquis loam, mod. well drained, non-irrigated
SOIL CONDITION:	very high P, high K, 6.1 pH, 3.4% OM, 17.7 CEC
TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	Felxstar, Glyphosate, Clethodim, Trivapro, Sniper
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 16 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 18 133.3 /A

TEST COMMENTS:

This Marquis loam has very good fertility and drainage which can often allow soybeans to easily reach yields in the 70's under ideal conditions. The trial this year didn't get off to the best start but finished reasonably well. Planted by mid-May, this plot encountered about 5" of rain and cold weather in the first couple of weeks. While there was some occurrence of damping off, plant stands didn't appear to suffer too much overall. Moisture in June brought 4.6" and by July totaled just 1.4" for the month. August was cool. By the second week of October, plants had matured well ahead of other locations with the same maturities in the western parts of Iowa.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
NK BRAND	S25-V8X	RRX	2.5	MR	69.7	10.3	0	132.9	592	1
KRUGER	K2X-2283	RRX	2.2	R	67.2	10.3	0	130.4	571	2
CHAMPION	2190EN	E3	2.1	R	66.4	10.5	0	133.6	564	3
CORNELIUS	CB24X64	RRX	2.4	R	66.3	10.6	0	133.0	564	4
CHAMPION	21X99N	RRX	2.1	R	66.1	10.3	0	134.0	562	5
HEFTY	H23X0	RRX	2.3	R	65.9	10.5	0	136.4	560	6
ARMOR	X25D59	RRX	2.5	MR	64.9	10.3	0	137.1	552	7
CREDENZ	CZ 2040GTLL	LG27	2.0	R	64.7	10.2	0	135.9	550	8
HOEGEMEYER	2202 NX	RRX	2.2	R	64.7	10.4	0	131.1	550	9
PIONEER	P24A99X §	RRX	2.4	R	64.6	10.5	0	133.9	549	10
STINE	25GA62	LG27	2.5	R	64.1	10.4	0	136.6	545	12
CREDENZ	CZ 2360GTLL	LG27	2.3	MR	64.1	10.5	0	131.9	545	11
GOLDEN HARVEST	GH2552X	RRX	2.5	MR	63.9	10.3	0	130.9	543	13
LATHAM	L 2178 LLGT27	LG27	2.1	R	63.9	10.4	0	133.7	543	14
TITAN PRO	23E9	E3	2.3	R	63.9	10.7	0	135.4	543	15
HEFTY	H25X0	RRX	2.5	R	63.8	10.3	0	132.5	542	16
NK BRAND	S21-W8X	RRX	2.1	R	63.8	10.2	0	136.9	542	17
RENK	RS248NX	RRX	2.4	R	63.7	10.5	0	133.9	541	19
TITAN PRO	22E8	E3	2.2	R	63.6	10.4	0	131.2	541	20
CHAMPION	24X98N	RRX	2.4	R	63.6	10.6	0	135.6	541	18
TITAN PRO	TP-24X87	RRX	2.4	R	63.3	10.6	0	129.0	538	21
LATHAM	L 2482R2	RR2Y	2.4	R	63.2	10.4	0	135.7	537	22
KRUGER	K2X-2172	RRX	2.1	R	63.0	10.4	0	129.9	536	23
PIONEER	P21A28X GC	RRX	2.1	R	62.9	10.2	0	133.7	535	24
CHAMPION	2220GTLL	LG27	2.2	R	62.8	10.4	0	135.2	534	25
CREDENZ	CZ 2550GTLL	LG27	2.5	MR	62.6	10.3	0	134.2	532	26
GOLDEN HARVEST	GH2041X	RRX	2.0	R	62.5	10.2	0	136.4	531	27
HEFTY	H25E0	E3	2.5	R	62.4	10.5	0	134.2	530	28
CORNELIUS	P3 2022B	LG27	2.2	R	62.0	10.4	0	136.1	527	29
TITAN PRO	24GL9	LG27	2.4	R	61.9	10.4	0	136.9	526	31
CROPLAN	R2C2450 CK	RR2Y	2.4	R	61.9	10.4	0	133.6	526	30

Corey Rozenboom

Corey Rozenboom

corey.rozenboom@firstseedtests.com, (319) 830-8886

Averages =	62.4	10.4	0	133.3	530
LSD (0.10) =	2.5	0.1	0		
LSD (0.25) =	1.3	0.0	0		
C.V. =	3.8				

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

Report Date: 10/22/2019

Revised:10/25/2019 (data change, incorrect product removed from early-season test)

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	2.6 - 2.9 Day CRM S2019IANC04b
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TILLAGE/CULTIVATION:	No-Till
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Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 16 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 18 133.3 /A

TEST COMMENTS:

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Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
PIONEER	P27A17X S	RRX	2.7	R	70.0	10.2	0	131.6	595	1
ARMOR	X28E89	E3	2.7	MR	69.9	10.3	0	135.7	594	2
CREDENZ	CZ 2889GTLL	LG27	2.8	MR	69.1	10.2	0	133.0	587	3
HEFTY	H28X0	RRX	2.8	R	69.0	10.2	0	137.1	586	4
TITAN PRO	28GL9	LG27	2.8	R	68.8	10.3	0	137.2	585	5
FS HISOY	HS 27X90	RRX	2.7	R	68.3	10.3	0	131.2	581	6
CORNELIUS	CB26E60	E3	2.6	R	68.0	10.3	0	126.6	578	7
LEGEND	LS 29LGT907N	LG27	2.9	R	67.9	10.1	0	136.7	577	8
CREDENZ	CZ 2830GTLL GC	LG27	2.8	R	67.8	10.2	0	137.7	576	9
CHAMPION	27X90N	RRX	2.7	R	67.7	10.3	0	133.2	575	10
CHAMPION	2820GTLL	LG27	2.8	R	67.5	10.3	0	138.1	574	11
CORNELIUS	P3 1928E	E3	2.8	R	67.4	10.3	0	136.6	573	12
GENESIS	G2840E	E3	2.7	R	67.1	10.2	0	137.6	570	13
LATHAM	L 2887R2X	RRX	2.8	R	67.1	10.1	0	132.7	570	14
TITAN PRO	28E8	E3	2.8	R	67.0	10.2	0	135.2	570	15
LEGEND	LS 29X052N	RRX	2.9	R	67.0	10.2	0	132.4	570	16
KRUGER	K2X-2971	RRX	2.9	R	66.6	10.1	0	128.9	566	17
RENK	RS280NX	RRX	2.8	R	66.5	10.2	0	128.0	565	18
FS HISOY	HS 29X80	RRX,ST	2.9	R	66.5	10.3	0	131.9	565	19
HEFTY	Z2700E	E3	2.7	R	66.1	10.2	0	134.2	562	20
CORNELIUS	CB27X81	RRX	2.7	R	66.0	10.1	0	130.0	561	21
CORNELIUS	CB26X78	RRX	2.6	R	65.9	10.1	0	135.7	560	22
HEFTY	Z2900E	E3	2.9	R	65.8	10.3	0	137.7	559	23
NK BRAND	S29-K3X	RRX	2.9	R	65.6	10.4	0	135.1	558	24
CHAMPION	28X78N	RRX	2.8	R	65.4	10.1	0	131.7	556	25
KRUGER	K2X-2673	RRX	2.6	R	65.1	10.2	0	136.9	553	26
CREDENZ	CZ 2579GTLL	LG27	2.5	MR	65.1	10.4	0	135.6	553	27
GOLDEN HARVEST	GH2981X	RRX	2.9	R	65.1	10.4	0	137.2	553	28
ASGROW	AG27X0	RRX	2.7	R	65.0	10.2	0	131.7	552	29
ASGROW	AG26X0	RRX	2.6	R	64.9	10.2	0	136.4	552	30
CROPLAN	R2C2450 CK	RR2Y	2.4	R	61.1	10.4	0	132.6	519	48

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Averages =	65.6	10.2	0	133.3	557
LSD (0.10) =	1.7	0.1	0		
LSD (0.25) =	0.9	0.0	0		
C.V. =	2.5				

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

Report Date: 10/22/2019

Revised:10/25/2019 (data change, incorrect product removed from early-season test)

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2019 Soybeans - Iowa North Central [IANC]

Early-Season Test Products (47 Total)

Company/Brand	Product/Brand	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
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

2019 Soybeans - Iowa North Central [IANC]

Full-Season Test Products (48 Total)

Company/Brand	Product/Brand	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

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
