

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

2019 Soybeans Top 30 Harvest Report

Iowa North Central [IANC] LAURENS, IA
Dale Roewe, Pocahontas County, IA 50554

Early-Season Test	2.1 - 2.5 Day CRM S2019IANC01a
Top 30 of 47	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / HalexGT, Atrazine
SOIL DESCRIPTION:	Webster clay loam, moderately drained, non-irrigated
SOIL CONDITION:	very high P, very high K, 5.9 pH, 4.5% OM, 22.8 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Me-Too-Lachlor, Flexstar, Harmony, Clethodim, Eyfenthrin, Lorzban
Applied N-P-K (units):	225-135-190
SEEDED - RATE - ROW:	Jun 5 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 18 125.8 /A

TEST COMMENTS:

Planting season was a lesson in patience this spring. Getting this Webster clay loam to dry well enough for acceptable planting conditions can be a challenge. There were about 2 planting windows to plant your crop in northern Iowa this year: May 3-6 and May 13-16. Most of that time was dedicated to corn. That left a majority of soybean fields left to plant the first week of June, and this plot was no different. With late planting comes lower yield potential, but this crop made the most of very high fertility and well timed moisture through the season to exceed the 10 year average yield (55.9 bu/a) for this IANC region.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
PIONEER	P21A28X GC	RRX	2.1	R	62.3	12.4	1	129.9	530	1
HEFTY	H25X0	RRX	2.5	R	61.1	13.1	1	125.6	519	2
ARMOR	X25D59	RRX	2.5	MR	61.1	12.5	1	128.2	519	3
ASGROW	AG20X9	RRX	2.0	R	61.0	12.1	1	125.2	518	4
CREDENZ	CZ 2360GTLL	LG27	2.3	MR	61.0	12.7	1	123.8	518	5
CHAMPION	24X98N	RRX	2.4	R	60.6	13.1	1	126.3	515	6
HEFTY	Z2300E	E3	2.3	R	59.8	12.2	1	127.9	508	7
HEFTY	H23X0	RRX	2.3	R	59.6	12.4	1	126.3	507	8
NK BRAND	S21-W8X	RRX	2.1	R	59.4	12.0	1	126.0	505	9
GOLDEN HARVEST	GH2230X	RRX	2.2	R	59.3	12.1	1	127.8	504	10
CORNELIUS	CB24X64	RRX	2.4	R	59.0	13.5	1	122.1	501	11
RENK	RS250NX	RRX	2.5	R	58.2	13.3	1	128.0	494	12
RENK	RS248NX	RRX	2.4	R	58.2	13.3	1	127.2	494	13
HOEGEMEYER	2202 NX	RRX	2.2	R	58.1	12.9	1	120.3	494	14
STINE	25GA62	LG27	2.5	R	57.9	12.9	1	128.4	492	15
GOLDEN HARVEST	GH2041X	RRX	2.0	R	57.9	12.2	1	126.2	492	16
NK BRAND	S25-V8X	RRX	2.5	MR	57.8	13.4	1	119.4	491	17
HOEGEMEYER	2540 E	E3	2.5	R	57.8	12.3	1	123.0	491	18
CORNELIUS	P3 2022B	LG27	2.2	R	57.5	12.7	1	124.0	489	19
KRUGER	K2X-2172	RRX	2.1	R	57.4	12.1	1	122.5	488	20
LATHAM	L 2482R2	RR2Y	2.4	R	57.4	12.3	1	126.5	488	21
CHAMPION	2220GTLL	LG27	2.2	R	57.0	12.4	1	128.0	484	22
TITAN PRO	24GL9	LG27	2.4	R	56.9	12.6	1	119.5	484	23
GOLDEN HARVEST	GH2552X	RRX	2.5	MR	56.7	13.8	1	126.2	481	24
FS HISOY	HS 21X90	RRX	2.1	R	56.5	12.4	1	119.3	480	25
TITAN PRO	TP-24X87	RRX	2.4	R	56.4	13.9	1	121.3	478	26
ARMOR	X21E99	E3	2.1	MR	56.2	12.4	1	128.0	478	27
GENESIS	G2181GL	LG27	2.2	R	56.1	12.6	1	126.5	477	28
TITAN PRO	22E8	E3	2.2	R	56.0	12.3	1	129.2	476	29
KRUGER	K2X-2573	RRX	2.5	R	55.7	13.0	1	122.8	473	31
CROPLAN	R2C2450 CK	RR2Y	2.4	R	55.9	12.5	1	122.1	475	30

Corey Rozenboom

Corey Rozenboom

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Averages =	56.9	12.7	1	125.8	483
LSD (0.10) =	2.3	0.3	0		
LSD (0.25) =	1.2	0.2	0		
C.V. =	3.9				

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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2019 Soybeans Top 30 Harvest Report

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Full-Season Test	2.6 - 2.9 Day CRM S2019IANC01b
Top 30 of 48	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / HalexGT, Atrazine
SOIL DESCRIPTION:	Webster clay loam, moderately drained, non-irrigated
SOIL CONDITION:	very high P, very high K, 5.9 pH, 4.5% OM, 22.8 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Me-Too-Lachlor, Flexstar, Harmony, Clethodim, Epyfenthrin, Lorzbán
Applied N-P-K (units):	225-135-190
SEEDING - RATE - ROW:	Jun 5 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 18 123.6 /A

TEST COMMENTS:

Planting season was a lesson in patience this spring. Getting this Webster clay loam to dry well enough for acceptable planting conditions can be a challenge. There were about 2 planting windows to plant your crop in northern Iowa this year: May 3-6 and May 13-16. Most of that time was dedicated to corn. That left a majority of soybean fields left to plant the first week of June, and this plot was no different. With late planting comes lower yield potential, but this crop made the most of very high fertility and well timed moisture through the season to exceed the 10 year average yield (55.9 bu/a) for this IANC region.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
STINE	27EA23	E3	2.7	R	69.0	14.7	1	125.3	584	1
FS HISOY	HS 27X90	RRX	2.7	R	68.2	15.0	1	122.3	577	2
RENK	RS280NX	RRX	2.8	R	67.4	15.0	1	129.2	570	3
PIONEER	P27A17X §	RRX	2.7	R	66.3	13.6	1	128.9	563	4
FS HISOY	HS 29X80	RRX,ST	2.9	R	65.7	15.0	1	122.8	556	5
CHAMPION	27X90N	RRX	2.7	R	65.5	15.0	1	123.8	554	6
TITAN PRO	28GL9	LG27	2.8	R	65.3	15.0	1	124.8	552	7
CHAMPION	2889EN	E3	2.8	R	65.0	13.9	1	128.7	551	8
PIONEER	P25A70R §	RR	2.5	R	65.0	14.3	1	123.0	551	9
ARMOR	X28E89	E3	2.7	MR	64.6	13.5	1	126.9	548	10
CORNELIUS	P3 1928E	E3	2.8	R	64.3	14.2	1	124.8	545	11
FS HISOY	HS 26X90	RRX	2.6	R	64.3	15.0	1	124.0	544	12
HEFTY	H28X0	RRX	2.8	R	64.2	15.0	1	123.3	543	14
HEFTY	Z2700E	E3	2.7	R	64.1	14.4	1	123.6	543	13
TITAN PRO	28E8	E3	2.8	R	64.0	15.0	1	126.3	541	15
ASGROW	AG27X0	RRX	2.7	R	63.6	13.9	1	120.8	539	16
HEFTY	Z2900E	E3	2.9	R	63.5	15.0	1	118.3	537	17
CORNELIUS	CB26X78	RRX	2.6	R	63.4	15.0	1	122.0	536	18
CREDENZ	CZ 2830GTLL GC	LG27	2.8	R	63.4	15.0	1	123.2	536	19
GENESIS	G2840E	E3	2.7	R	63.3	14.4	1	128.0	536	20
LATHAM	L 2949 E3	E3	2.9	R	62.8	15.0	1	128.7	531	22
CHAMPION	2820GTLL	LG27	2.8	R	62.7	14.0	1	127.3	532	21
LEGEND	LS 29X052N	RRX	2.9	R	62.6	14.8	1	122.1	530	23
CHAMPION	28X78N	RRX	2.8	R	62.3	14.5	1	124.0	528	24
NK BRAND	S29-K3X	RRX	2.9	R	62.2	15.0	1	126.8	526	26
LATHAM	L 2839 LLGT27	LG27	2.8	R	62.1	13.9	1	128.0	527	25
CORNELIUS	CB26E60	E3	2.6	R	61.6	14.5	1	124.0	522	29
KRUGER	K2X-2673	RRX	2.6	R	61.5	12.5	1	118.3	523	27
LEGEND	LS 25X924N	RRX	2.5	MR	61.5	12.0	1	125.6	523	28
GOLDEN HARVEST	GH2788X	RRX	2.7	R	61.4	12.5	1	124.6	522	30
CROPLAN	R2C2450 CK	RR2Y	2.4	R	57.4	11.7	1	121.6	488	47

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Averages =	62.5	14.3	1	123.6	530
LSD (0.10) =	2.4	0.6	0		
LSD (0.25) =	1.2	0.3	0		
C.V. =	3.6				

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
