

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

## 2020 Soybeans Top 30 Harvest Report

Iowa North [IANO] OSAGE, IA

Dale Hemann, Mitchell County, IA 50461

<b>Early-Season Test</b>	1.7 - 2.1 Day CRM S2020IANO03a
<b>Top 30 of 54</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn / Resicore, Roundup
<b>SOIL DESCRIPTION:</b>	Klinger silty clay loam, moderately drained, non- irrigated
<b>SOIL CONDITION:</b>	medium P, low K, 6.4 pH, 4.5% OM, 20.7 CEC
<b>TILLAGE/CULTIVATION:</b>	Minimum W/O Fall Till
<b>PEST MANAGEMENT:</b>	Matador Roundup, Warrant Ultra, Section Three
<b>Applied N-P-K (units):</b>	0-0-0
<b>SEDED - RATE - ROW:</b>	May 8 144.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 6 128.1 /A

### TEST COMMENTS:

*This site was planted May 8 into favorable conditions producing final stands right around 90%. Precipitation was right on track through the season except for a dry stretch from mid-July through mid-August. A few key showers in August were able to fill pods and produce a wide range of responses from among the varieties tested here, especially of later maturities. Seed samples collected for protein and oil content revealed a wide range of seed sizes from the same variety. In some cases, the same plants produced hard dry seed along with more swollen seed of higher moistures.*

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
KRUGER	K2X-1681	RRX	1.7	R	<b>71.7</b>	11.0	0	129.0	678	1
FS HISOY	HS 21X90	RRX	2.1	R	<b>70.3</b>	10.9	0	130.7	664	2
CROPLAN	CP2128X GC	RRX	2.1	R	<b>66.8</b>	10.9	0	127.3	631	3
KRUGER	K2X-1862	RRX	1.8	R	<b>66.4</b>	10.5	0	128.3	627	4
GENESIS	G2150E	E3	2.1	R	<b>66.3</b>	10.7	12	131.3	627	5
KRUGER	K2X-2073	RRX	2.0	R	<b>65.3</b>	10.8	0	128.0	617	6
GENESIS	G1750E	E3	1.7	R	<b>65.0</b>	10.5	0	129.0	614	8
LATHAM	L 1858 R2	RR2Y	1.8	R	<b>64.8</b>	10.4	0	131.7	612	9
P3 GENETICS	2121E	E3	2.1	R	64.6	10.5	0	131.0	610	10
APEX	AE1910	E3	1.9	R	64.5	10.5	0	127.7	610	11
HEFTY	H18X1	RRX	1.8	R	64.4	10.7	8	129.0	609	12
APEX	AE1710	E3	1.7	R	64.4	10.3	0	125.7	609	13
GENESIS	G2190GL	LLGT27	2.1	R	64.1	10.8	0	130.7	606	14
APEX	AE2110	E3	2.1	R	62.7	10.6	0	127.7	593	15
CORNELIUS	CB20X22	RRX	2.0	R	62.6	10.7	0	126.7	592	16
ZINESTO	Z2101E	E3	2.1	R	62.3	10.7	0	127.3	589	17
TITAN PRO	19E0	E3	1.9	R	62.3	10.7	0	125.0	589	18
ZINESTO	Z2001E	E3	2.0	R	62.3	10.5	0	132.3	589	19
FS HISOY	HS 18X70	RRX	1.8	R	62.3	10.8	0	126.0	589	20
TITAN PRO	18E9	E3	1.8	R	62.1	10.9	0	128.0	587	21
GOLDEN HARVEST	GH1638X §	RRX	1.6	MR	62.0	10.6	0	129.0	586	22
VIKING	2155N	CONV	2.1	MR	61.9	11.7	12	125.0	585	23
LATHAM	L 2049 E3	E3	2.0	R	61.9	10.4	0	126.3	585	24
GOLDEN HARVEST	GH2041X	RRX	2.0	R	61.8	10.3	0	127.7	584	25
LATHAM	L 2184 R2X	RRX	2.1	R	61.7	10.7	8	125.0	583	26
NK BRAND	S20-J5X	RRX	2.0	R	61.6	10.4	0	127.3	582	27
FS HISOY	HS 19X90	RRX	1.9	R	61.6	10.7	5	128.0	582	28
CREDENZ	CZ 2121GTLL	LLGT27	2.1	MR	61.4	10.7	0	128.0	580	29
CORNELIUS	CB18X80	RRX	1.8	R	61.2	10.6	0	128.0	578	30
NUTECH	16N03E	E3	1.7	R	60.9	10.3	0	127.0	576	31
CROPLAN	CP2219X CK	RRX	2.1	R	65.0	11.3	0	128.0	614	7

*Corey Rozenboom*

Corey Rozenboom

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Averages = **61.3** **10.6** **1** **128.1** **579**

LSD (0.10) = 3.5 0.2 ns

LSD (0.25) = 1.8 0.1 ns

C.V. = 5.4

Historic yield: 55.2 bu/a, 8 yr(s)

**Yield & Income Factors:** Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.02 Prices: GMO = \$9.45

Report Date: 10/07/2020

† 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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## 2020 Soybeans Top 30 Harvest Report

Iowa North [IANO] OSAGE, IA

Dale Hemann, Mitchell County, IA 50461

<b>Full-Season Test</b>	2.2 - 2.5 Day CRM S2020IANO03b
<b>Top 30 of 45</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn / Resicore, Roundup
<b>SOIL DESCRIPTION:</b>	Klinger silty clay loam, moderately drained, non- irrigated
<b>SOIL CONDITION:</b>	medium P, low K, 6.4 pH, 4.5% OM, 20.7 CEC
<b>TILLAGE/CULTIVATION:</b>	Minimum W/O Fall Till
<b>PEST MANAGEMENT:</b>	Matador Roundup, Warrant Ultra, Section Three
<b>Applied N-P-K (units):</b>	0-0-0
<b>SEEDED - RATE - ROW:</b>	May 8 144.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 6 128.9 /A

### TEST COMMENTS:

*This site was planted May 8 into favorable conditions producing final stands right around 90%. Precipitation was right on track through the season except for a dry stretch from mid-July through mid-August. A few key showers in August were able to fill pods and produce a wide range of responses from among the varieties tested here, especially of later maturities. Seed samples collected for protein and oil content revealed a wide range of seed sizes from the same variety. In some cases, the same plants produced hard dry seed along with more swollen seed of higher moistures.*

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
LATHAM	L 2549 R2X	RRX	2.5	R	<b>70.9</b>	11.0	0	131.3	670	1
FS HISOY	HS 24X80	RRX	2.4	R	<b>70.0</b>	11.0	0	128.7	662	2
HEFTY	H23X0	RRX	2.3	R	<b>68.2</b>	11.1	0	129.3	644	3
RENK	RS248NX	RRX	2.4	R	<b>67.7</b>	11.1	0	131.7	640	4
PIONEER	P25A04X §	RRX	2.5	R	<b>67.6</b>	14.7	0	127.7	637	7
NK BRAND	S25-V8X §	RRX	2.5	MR	<b>67.5</b>	12.9	0	128.0	638	5
GOLDEN HARVEST	GH2230X §	RRX	2.2	R	<b>67.5</b>	10.5	0	127.3	638	6
NUTECH	24N02E	E3	2.4	R	<b>66.5</b>	10.8	0	127.7	628	8
HEFTY	H25X0	RRX	2.5	R	<b>66.3</b>	12.0	0	130.0	627	9
LATHAM	L 2228 R2	RR2Y	2.2	R	<b>66.2</b>	10.7	0	127.7	626	10
KRUGER	K2X-2283	RRX	2.2	R	<b>66.2</b>	13.2	0	130.0	625	11
RENK	RS250NX	RRX	2.5	R	65.2	11.1	0	129.3	616	13
CREDENZ	CZ 2550GTLL	LLGT27	2.5	MR	65.0	11.5	8	128.0	614	14
ASGROW	AG22X9 §	RRX	2.2	R	64.9	10.3	0	128.3	613	15
STINE	24EA12 §	E3	2.4	R	64.5	13.9	12	129.0	608	17
CROPLAN	CP2400X GC	RRX	2.4	R	64.4	11.5	0	132.7	609	16
P3 GENETICS	2023E	E3	2.3	R	64.1	11.3	0	131.7	606	18
NK BRAND	S23-G5X	RRX	2.3	MR	63.9	10.3	12	129.3	604	19
GENESIS	G2550E	E3	2.5	R	63.7	14.8	0	129.7	600	21
NUTECH	22N02E	E3	2.2	R	63.6	11.0	0	126.7	601	20
GOLDEN HARVEST	GH2329X	RRX	2.3	MR	63.4	10.3	12	127.3	599	22
FS HISOY	HS 23X70	RRX	2.3	R	63.0	11.2	0	131.3	595	23
CORNELIUS	CB24X64	RRX	2.4	R	62.7	11.7	0	126.7	593	24
ZINESTO	Z2401E	E3	2.4	R	62.5	14.9	3	127.0	588	25
FS HISOY	HS 22X00	RRX	2.2	R	62.2	11.0	12	129.7	588	26
LATHAM	L 2379 E3	E3	2.3	R	61.9	10.9	0	128.7	585	27
CREDENZ	CZ 2360GTLL	LLGT27	2.3	MR	61.3	10.6	0	126.3	579	28
CREDENZ	CZ 2230GTLL	LLGT27	2.2	MR	60.6	10.5	8	127.3	573	29
HEFTY	H23X9	RRX	2.3	MR	60.2	10.4	0	127.0	569	30
PIONEER	P22T86E §	E3	2.2	R	60.0	10.4	0	131.0	567	31
CROPLAN	CP2219X CK	RRX	2.1	R	65.2	11.1	0	129.7	616	12

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Averages = **62.6** **11.7** **2** **128.9** **591**

LSD (0.10) = 3.2 0.6 ns

LSD (0.25) = 1.7 0.3 ns

C.V. = 4.8

Historic yield: 55.2 bu/a, 8 yr(s)

### Yield & Income Factors:

Base Moisture = 13.0%

Shrink = 1.3

Drying = \$0.02

Prices: GMO = \$9.45

## 2020 Soybeans - Iowa North [ IANO ]

### Early-Season Test Products (54 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
APEX	AE1710	E3	R	1.7	CMBV,SA
APEX	AE1910	E3	R	1.9	CMBV,SA
APEX	AE2110	E3	R	2.1	CMBV,SA
ASGROW	AG17X8 §	RRX	R	1.7	ACi,IL
ASGROW	AG20X9 §	RRX	R	2.0	ACi
CORNELIUS	CB18X80	RRX	R	1.8	PG+
CORNELIUS	CB20X22	RRX	R	2.0	PG+
CREDENZ	CZ 1850GTLL	LLGT27	MR	1.8	PV,IL,OB
CREDENZ	CZ 1859GTLL	LLGT27	R	1.8	PV,IL,OB
CREDENZ	CZ 2040GTLL	LLGT27	R	2.0	PV,IL,OB
CREDENZ	CZ 2121GTLL	LLGT27	MR	2.1	PV,IL,OB
CROPLAN	CP1960X GC	RRX	NA	1.9	Untreated
CROPLAN	CP2128X GC	RRX	R	2.1	W
CROPLAN	CP2219X CK	RRX	R	2.1	Untreated
FS HISOY	HS 18X70	RRX	R	1.8	ACi,SA,B-200
FS HISOY	HS 19X90	RRX	R	1.9	ACi,SA,B-200
FS HISOY	HS 21X90	RRX	R	2.1	ACi,SA,B-200
GENESIS	G1750E	E3	R	1.7	CMBV,SA
GENESIS	G1950E	E3	R	1.9	CMBV,SA
GENESIS	G2150E	E3	R	2.1	CMBV,SA
GENESIS	G2190GL	LLGT27	R	2.1	EcTC,SA
GOLDEN HARVEST	GH1638X §	RRX	MR	1.6	CMBV,SA
GOLDEN HARVEST	GH1915X	RRX	R	1.9	CMBV,SA
GOLDEN HARVEST	GH2041X	RRX	R	2.0	CMBV,SA
HEFTY	H17X9	RRX	MR	1.7	HCS
HEFTY	H18X1	RRX	R	1.8	HCS
HEFTY	H18X8	RRX	MR	1.8	HCS
KRUGER	K2X-1681	RRX	R	1.7	ACi,IL
KRUGER	K2X-1862	RRX	R	1.8	ACi,IL
KRUGER	K2X-2073	RRX	R	2.0	ACi,IL
LATHAM	L 1858 R2	RR2Y	R	1.8	SS+
LATHAM	L 2049 E3	E3	R	2.0	SS+
LATHAM	L 2184 R2X	RRX	R	2.1	SS+
LATHAM	L 2193 E3	E3	R	2.1	SS+
NK BRAND	S16-K2X	RRX	MR	1.6	CMBV,SA
NK BRAND	S20-J5X	RRX	R	2.0	CMBV,SA

Company/Brand	Brand/Product	Technology	RM	SCN	Seed Treat.
NK BRAND	S21-W8X	RRX	R	2.1	CMBV,SA
NUTECH	16N03E	E3	R	1.7	Lum,G,IL
NUTECH	20N03E	E3	R	2.0	Lum,G,IL
NUTECH	20N04E	E3	R	2.0	Lum,G,IL
P3 GENETICS	2119E	E3	R	1.9	PG+
P3 GENETICS	2121E	E3	R	2.1	PG+
PIONEER	P18A98X GC	RRX	R	1.8	Untreated
RENK	RS181NX	RRX	R	1.8	EcTC
STINE	21EA32 §	E3	R	2.1	VFI,SA
TITAN PRO	17E0	E3	R	1.7	SA,A,R,G
TITAN PRO	18E9	E3	R	1.8	SA,A,R,G
TITAN PRO	19E0	E3	R	1.9	SA,A,R,G
TITAN PRO	21E0	E3	R	2.1	SA,A,R,G
VIKING	2018N	CONV	MR	2.0	CMBV
VIKING	2155N	CONV	MR	2.1	CMBV
ZINESTO	Z1801E	E3	R	1.8	DST
ZINESTO	Z2001E	E3	R	2.0	DST
ZINESTO	Z2101E	E3	R	2.1	DST

## 2020 Soybeans - Iowa North [ IANO ]

### Full-Season Test Products (45 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
APEX	AE2310	E3	R	2.3	CMBV,SA
APEX	AE2510	E3	R	2.5	CMBV,SA
ASGROW	AG22X9 §	RRX	R	2.2	ACi,IL
CORNELIUS	CB24X64	RRX	R	2.4	PG+
CREDENZ	CZ 2230GTLL	LLGT27	MR	2.2	PV,IL,OB
CREDENZ	CZ 2360GTLL	LLGT27	MR	2.3	PV,IL,OB
CREDENZ	CZ 2550GTLL	LLGT27	MR	2.5	PV,IL,OB
CROPLAN	CP2219X CK	RRX	R	2.1	Untreated
CROPLAN	CP2400X GC	RRX	R	2.4	Untreated
FS HISOY	HS 22X00	RRX	R	2.2	ACi,SA
FS HISOY	HS 23X70	RRX	R	2.3	ACi,SA,B-200
FS HISOY	HS 24X80	RRX	R	2.4	ACi,SA,B-200
GENESIS	G2350E	E3	R	2.3	EcTC,SA
GENESIS	G2550E	E3	R	2.5	CMBV,SA
GOLDEN HARVEST	GH2230X §	RRX	R	2.2	CMBV,SA
GOLDEN HARVEST	GH2329X	RRX	MR	2.3	CMBV,SA
HEFTY	H23X0	RRX	R	2.3	HCS
HEFTY	H23X9	RRX	MR	2.3	HCS
HEFTY	H25X0	RRX	R	2.5	HCS
KRUGER	K2X-2283	RRX	R	2.2	ACi,IL
KRUGER	K2X-2573	RRX	R	2.5	ACi,IL
LATHAM	L 2228 R2	RR2Y	R	2.2	SS+
LATHAM	L 2295 R2X	RRX	R	2.2	SS+
LATHAM	L 2379 E3	E3	R	2.3	SS+
LATHAM	L 2549 R2X	RRX	R	2.5	SS+
NK BRAND	S23-G5X	RRX	MR	2.3	CMBV,SA
NK BRAND	S25-V8X §	RRX	MR	2.5	CMBV,SA
NUTECH	22N02E	E3	R	2.2	Lum,G,IL
NUTECH	24N02E	E3	R	2.4	Lum,G,IL
NUTECH	24N04E	E3	R	2.4	Lum,G,IL
P3 GENETICS	1924E	E3	R	2.4	PG+
P3 GENETICS	2023E	E3	R	2.3	PG+
PIONEER	P22T86E §	E3	R	2.2	Untreated
PIONEER	P25A04X §	RRX	R	2.5	Lum
PIONEER	P25T09E §	E3	R	2.5	Untreated
RENK	RS248NX	RRX	R	2.4	EcTC,SA

Company/Brand	Brand/Product	Technology	RM	SCN	Seed Treat.
RENK	RS250NX	RRX	R	2.5	EcTC,SA
STINE	23EA32 §	E3	R	2.3	VFI,SA
STINE	24EA12 §	E3	R	2.4	VFI,SA
TITAN PRO	22E8	E3	R	2.2	SA,A,R,G
TITAN PRO	25E0	E3	R	2.5	SA,A,R,G
VIKING	2340KN	CONV	R	2.3	CMBV
VIKING	2418N	CONV	MR	2.4	CMBV
ZINESTO	Z2401E	E3	R	2.4	DST
ZINESTO	Z2501E	E3	R	2.5	DST

## 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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CONV	Conventional
E3	Enlist™ E3
LLGT27	LibertyLink® GT27®
RR2Y	Roundup Ready 2 Yield®
RRX	Roundup Ready 2 Xtend®

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## Soybeans Seed Treatments\*\*

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NA	Not Available
ACi	Acceleron® Standard Insecticide-Fungicide
ACi,IL	Acceleron Standard Insecticide-Fungicide, ILeVO
ACi,SA	Acceleron Standard fungicide + insecticide, Saltro
ACi,SA,B-200	Acceleron Standard fungicide + insecticide, Saltro, Acceleron B-200 SAT (Dry Seed Finisher)
CMBV	CruiserMaxx Beans, Vibrance
CMBV,SA	Cruisermaxx, Vibrance, Saltro
DST	Dominance 2 ST
EcTC	Eclipse US Total Coverage Trio IM, N-Force
EcTC,SA	Eclipse US Total Coverage Trio IM, N-Force, Saltro
HCS	Hefty Complete Soybeans
Lum	Lumigen™
Lum,G,IL	Lumisena, Gaucho, ILeVO
PG+	Profit Guard +
PV,IL,OB	Poncho®/Votivo®, ILeVO, Obvius Plus
SA,A,R,G	Saltro, Allegiance FL, Redigo 480, Gaucho 600
SS+	SoyShield Plus
Untreated	No seed treatment
VFI,SA	Virile Fungicide+Insecticide, Saltro (BCS Consulting)
W	Warden® CX

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