

2018 Soybean Top 30 Harvest Report
 Iowa North Central [IANC] WATERLOO
 Rottinghaus Farms, Black Hawk County, IA 50703



PREV. CROP/HERB: Corn / Corvus, Harness, atrazine
 SOIL DESCRIPTION: Marquis loam, mod. well drained, non-irrigated
 SOIL CONDITIONS: Very high P, high K, 6.2 pH, 3.0% OM, 14.5 CEC
 TILLAGE/CULTIVATION: No-till
 PEST MANAGEMENT: Prowl, Sonic, Flexstar
 APPLIED N-P-K (units): 0-0-0
 SEEDED - RATE - ROW: May 23 142,000 /A 30" Spacing
 HARVESTED - STAND: Oct 24 134,000 /A

Early-Season Test
Maturity Group 2.1 - 2.5
 S2018IANC04a

Top 30 of 60

For Gross Income (Sorted by Yield)
 Average of (3) Replications

Company/Brand	Product/Brand†	Technol.†	Mat.	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Renk	RS248NX	RRX	2.4	R	68.5	11.8	1	138.7	\$548	1
Hefty	H24X8	RRX	2.4	MR	67.3	11.9	1	134.6	\$538	2
Hoegemeyer	LL2221N	LL	2.2	R	67.1	11.9	1	135.5	\$537	3
NK Brand	S20-J5X §	RRX	2.0	R	66.7	11.1	1	134.4	\$534	4
FS HiSoy	HS 24X80	RRX	2.4	R	66.5	11.1	1	124.5	\$532	5
LG Seeds	LGS2444RX	RRX	2.4	R	65.8	11.3	1	132.5	\$526	6
Kruger	K2X-2442	RRX	2.4	R	65.7	11.8	6	132.4	\$526	7
Legend	LS 24X842N	RRX	2.4	MR	65.4	11.8	1	134.0	\$523	8
Golden Harvest	GH2230X	RRX	2.2	R	65.3	11.2	1	138.7	\$522	9
Pfister	24R201	RR2Y	2.4	R	64.5	11.8	1	134.4	\$516	10
Cornelius	CB24X64	RRX	2.4	R	64.5	11.9	1	134.6	\$516	11
Credenz	CZ2408LL	LL	2.4	R	64.4	11.3	1	134.0	\$515	12
Titan Pro	TP 24X87	RRX	2.4	MR	64.4	12.0	1	131.9	\$515	13
LG Seeds	C2126RX	RRX	2.1	R	64.2	11.4	9	134.0	\$514	14
Cornelius	CB22R88	RR2Y	2.2	R	63.8	11.4	1	128.9	\$510	15
Champion	24X98N	RRX	2.4	R	63.8	11.8	1	135.7	\$510	16
FS HiSoy	HS 25X70	RRX	2.5	R	63.5	11.1	1	125.9	\$508	17
Renk	RS207NX	RRX	2.0	R	63.4	11.5	1	134.4	\$507	18
Latham	L2228R2	RR2Y	2.2	R	63.2	11.4	1	138.2	\$506	19
Kruger	K2X-2573	RRX	2.5	R	63.0	11.2	1	131.4	\$504	20
Golden Harvest	GH2041X	RRX	2.0	R	63.0	11.4	1	137.1	\$504	21
Latham	L2295R2X	RRX	2.2	R	63.0	11.5	1	135.8	\$504	22
Credenz	CZ2312LL	LL	2.3	R	62.5	11.8	1	139.3	\$500	24
Latham	L2549R2X	RRX	2.5	R	62.4	11.2	1	131.0	\$499	25
Stine	21RI32 §	RR2Y	2.1	R	62.4	11.5	1	131.9	\$499	26
Cornelius	CB23X00	RRX	2.3	R	62.3	10.9	1	136.8	\$498	27
Hefty	H23X9	RRX	2.3	MR	62.3	11.4	1	134.1	\$498	28
Renk	RS219NX	RRX	2.1	R	62.2	11.5	1	134.0	\$498	29
Titan Pro	TP 24L27	LL	2.4	MR	61.8	11.7	1	125.9	\$494	30
Asgrow	AG24X7 §	RRX	2.4	R	61.5	11.4	1	133.6	\$492	31
Croplan	R2C2450 CK	RR2Y	2.4	R	62.9	11.5	1	128.1	\$503	

Corey Rozenboom

Corey Rozenboom

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

Averages = **61.5** **11.5** **3** **134.0** **\$492**
 LSD (0.10) = 2.5 0.3 6.8
 LSD (0.25) = 1.3 0.1 3.6
 C.V. = 3.9

Prev. years avg. yield, 56.2 bu/a, 3 yrs

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.020 Prices = \$8.00 GMO; \$8.00 non-GMO

TEST COMMENTS: *Wet early spring weather delayed planting at this no-till site. Favorable conditions followed planting for ideal germination and final stands near 95%. Accumulated rainfall from May through the end of Sept was 35.6". That's 13.4" over the 30-yr average. Excellent drainage at this site allowed for tall, healthy plants, great flowering and seed size. It was a wet year but overall yields were good.*

† See last page for abbreviation descriptions. Results in **bold** are significantly above test average by LSD (0.10). **ns** = column values not significantly different.

Additional reports available at www.firstseedtests.com

©2018, all rights reserved by Elite Field Genetics, LLC

Report Date: 10/26/2018 Revised:

2018 Soybean Top 30 Harvest Report
 Iowa North Central [IANC] WATERLOO
 Rottinghaus Farms, Black Hawk County, IA 50703



PREV. CROP/HERB: Corn / Corvus, Harness, atrazine
 SOIL DESCRIPTION: Marquis loam, mod. well drained, non-irrigated
 SOIL CONDITIONS: Very high P, high K, 6.2 pH, 3.0% OM, 14.5 CEC
 TILLAGE/CULTIVATION: No-till
 PEST MANAGEMENT: Prowl, Sonic, Flexstar
 APPLIED N-P-K (units): 0-0-0
 SEEDED - RATE - ROW: May 23 142,000 /A 30" Spacing
 HARVESTED - STAND: Oct 24 134,400 /A

Full-Season Test
Maturity Group 2.6 - 2.9
 S2018IANC04b

Top 30 of 45

For Gross Income (Sorted by Yield)
 Average of (3) Replications

Company/Brand	Product/Brand†	Technol.†	Mat.	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Golden Harvest	GH2788X §	RRX	2.7	R	68.6	11.1	1	136.5	\$549	1
Dairyland	DSR-2616/R2Y	RR2Y	2.6	MR	67.3	10.8	1	136.8	\$538	2
Golden Harvest	GH2981X §	RRX	2.9	R	66.9	11.5	1	138.2	\$535	3
Cornelius	CB28R58	RR2Y	2.8	R	66.7	10.6	1	135.2	\$534	4
Credenz	CZ2601LL	LL	2.6	R	65.9	11.1	1	137.1	\$527	5
Legend	LS 28X840N	RRX	2.8	MR	65.5	10.9	1	135.1	\$524	6
LG Seeds	LGS2759RX	RRX	2.7	R	65.1	10.9	1	135.7	\$521	7
NK Brand	S27-M8X	RRX	2.7	R	65.0	11.1	1	137.0	\$520	8
Pioneer	P27T59R §	RR	2.7	R	64.9	10.5	1	139.6	\$519	9
FS HiSoy	HS 28X70	RRX	2.8	R	64.4	10.7	1	130.2	\$515	10
Legend	LS 27R524N	RR2Y	2.7	MR	63.9	10.7	1	134.9	\$511	11
Champion	28X78N	RRX	2.8	R	63.6	10.8	1	136.8	\$509	12
Latham	L2638GT27	G27	2.6	R	63.6	10.9	1	136.0	\$509	13
Hefty	H28X8	RRX	2.8	MR	63.5	10.6	1	137.1	\$508	14
Champion	26X09N	RRX	2.6	MR	63.4	10.7	1	132.4	\$507	15
Renk	RS288NX	RRX	2.8	R	63.4	10.9	1	137.0	\$507	16
Legend	LS 29X952N	RRX	2.9	MR	63.4	11.0	1	134.0	\$507	17
Hefty	H29X8	RRX	2.9	MR	63.3	10.9	1	139.5	\$506	18
Asgrow	AG26X8 §	RRX	2.6	R	63.1	11.1	1	137.7	\$505	19
Pioneer	P28T08R §	RR	2.8	R	63.0	10.7	1	131.3	\$504	20
FS HiSoy	HS 29X80	RRX,ST	2.9	R	63.0	11.0	1	134.0	\$504	21
Kruger	K2X-2652	RRX	2.6	R	62.6	10.7	1	131.6	\$501	22
Champion	26L16N	LL	2.6	R	62.6	10.9	1	133.8	\$501	23
NK Brand	S29-K3X	RRX	2.9	R	62.5	11.2	1	137.7	\$500	24
Becks	2559X2 GC	RRX	2.5	R	62.3	10.8	1	136.8	\$498	25
Cornelius	CB27X81	RRX	2.7	R	62.2	10.8	1	129.9	\$498	26
Latham	L2887R2X	RRX	2.8	R	62.1	10.7	1	135.1	\$497	27
FS HiSoy	HS 27X80	RRX	2.7	R	62.0	10.8	1	122.9	\$496	28
Hoegemeyer	LL2579N	LL	2.5	R	61.9	11.0	21	134.7	\$495	29
Titan Pro	TP 28X47	RRX	2.8	MR	61.8	10.7	1	132.1	\$494	30
Croplan	R2C2450 CK	RR2Y	2.4	R	61.7	11.1	1	135.5	\$494	33

Corey Rozenboom

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

Averages = **62.7** **10.9** **2** **134.4** **\$501**
 LSD (0.10) = 2.1 0.2 5.1
 LSD (0.25) = 1.1 0.1 2.7
 C.V. = 3.2

Prev. years avg. yield, 56.2 bu/a, 3 yrs

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.020 Prices = \$8.00 GMO; \$8.00 non-GMO

TEST COMMENTS: *Wet early spring weather delayed planting at this no-till site. Favorable conditions followed planting for ideal germination and final stands near 95%. Accumulated rainfall from May through the end of Sept was 35.6". That's 13.4" over the 30-yr average. Excellent drainage at this site allowed for tall, healthy plants, great flowering and seed size. It was a wet year but overall yields were good.*

† See last page for abbreviation descriptions. Results in **bold** are significantly above test average by LSD (0.10). **ns** = column values not significantly different.

Additional reports available at www.firstseedtests.com

©2018, all rights reserved by Elite Field Genetics, LLC

Report Date: 10/26/2018 Revised:

2018 Soybean - Iowa North Central [IANC]

Early-Season Test Products (60 Total)

Company/Brand	Product/Brand	Technol.	Mat.	SCN	Seed Trt	Company/Brand	Product/Brand	Technol.	Mat.	SCN	Seed Trt
Asgrow	AG23X8 §	RRX	2.3	R	AC,PV	Pfister	24R201	RR2Y	2.4	R	CCB
Asgrow	AG24X7 §	RRX	2.4	R	AC,PV	Renk	RS207NX	RRX	2.0	R	EcTC
Champion	21X77N	RRX	2.1	R	EL	Renk	RS219NX	RRX	2.1	R	EcTC
Champion	22X09N	RRX	2.2	R	EL	Renk	RS239NX	RRX	2.3	R	None
Champion	24L17N	LL	2.4	R	EL	Renk	RS248NX	RRX	2.4	R	EcTC
Champion	24X98N	RRX	2.4	R	EL	Stine	21RI32 §	RR2Y	2.1	R	SF
Cornelius	CB22R88	RR2Y	2.2	R	PG+	Stine	24RH62 §	RR2Y	2.4	R	SF
Cornelius	CB23X00	RRX	2.3	R	PG+	Titan Pro	TP 21L15	LL	2.1	MR	IL,PV
Cornelius	CB24R82	RR2Y	2.4	R	PG+	Titan Pro	TP 22X68	RRX	2.2	MR	None
Cornelius	CB24X64	RRX	2.4	R	PG+	Titan Pro	TP 24L27	LL	2.4	MR	IL,PV
Credenz	CZ2312LL	LL	2.3	R	EE,PV,IL	Titan Pro	TP 24X87	RRX	2.4	MR	IL,PV
Credenz	CZ2408LL	LL	2.4	R	EE,PV,IL	Viking	2155N	None	2.1	MR	CMB
Croplan	R2C2450 CK	RR2Y	2.4	R	None	Viking	2188AT12N	None	2.4	MR	CMB
Dairyland	DSR-2110/R2Y	RR2Y	2.1	R	CMB	Viking	2340KN	None	2.3	R	None
Dairyland	DSR-2330/R2Y	RR2Y	2.3	R	CMB	Viking	2418N	None	2.4	MR	None
FS HiSoy	HS 22X80	RRX	2.2	R	ACi,IL						
FS HiSoy	HS 23X70	RRX	2.3	R	ACi,IL						
FS HiSoy	HS 24X80	RRX	2.4	R	ACi,IL						
FS HiSoy	HS 25X70	RRX	2.5	R	ACi,IL						
Golden Harvest	GH2041X	RRX	2.0	R	CCB,Me						
Golden Harvest	GH2230X	RRX	2.2	R	CCB,Me						
Golden Harvest	GH2537X	RRX	2.5	R	CCB,Me						
Hefty	H21X9	RRX	2.1	MR	DST						
Hefty	H23X9	RRX	2.3	MR	DST						
Hefty	H24X8	RRX	2.4	MR	DST						
Hefty	H25X9	RRX	2.5	MR	DST						
Hoegemeyer	LL2221N	LL	2.2	R	EE,G,IL,Lu						
Kruger	K2X-2172	RRX	2.1	R	AC,PV,IL						
Kruger	K2X-2261	RRX	2.2	R	AC,PV,IL						
Kruger	K2X-2442	RRX	2.4	R	AC,PV,IL						
Kruger	K2X-2573	RRX	2.5	R	AC,PV,IL						
Latham	L2228R2	RR2Y	2.2	R	SS+						
Latham	L2295R2X	RRX	2.2	R	SS+						
Latham	L2464R2X	RRX	2.4	R	SS+						
Latham	L2549R2X	RRX	2.5	R	SS+						
Legend	LS 21X705N	RRX	2.1	MR	YPP						
Legend	LS 23X920N	RRX	2.3	MR	YPP						
Legend	LS 24R563N	RR2Y	2.4	MR	YPP						
Legend	LS 24X842N	RRX	2.4	MR	YPP						
LG Seeds	C2126RX	RRX	2.1	R	ASfi,IL						
LG Seeds	LGS2239RX	RRX	2.2	R	ASfi,IL						
LG Seeds	LGS2444RX	RRX	2.4	R	ASfi,IL						
NK Brand	S20-J5X §	RRX	2.0	R	CCB,Me						
NK Brand	S25-B6X	RRX	2.5	R	CCB,Me						
Pfister	20R23	RR2Y	2.0	R	CCB						

2018 Soybean - Iowa North Central [IANC]

Full-Season Test Products (45 Total)

Company/Brand	Product/Brand	Technol.	Mat.	SCN	Seed Trt	Company/Brand	Product/Brand	Technol.	Mat.	SCN	Seed Trt
Asgrow	AG26X8 §	RRX	2.6	R	AC,PV						
Becks	2559X2 GC	RRX	2.5	R	Es						
Champion	26L16N	LL	2.6	R	EL						
Champion	26X09N	RRX	2.6	MR	EL						
Champion	28X78N	RRX	2.8	R	EL,IL						
Cornelius	CB26X67	RRX	2.6	S	PG+						
Cornelius	CB27X81	RRX	2.7	R	PG+						
Cornelius	CB28R58	RR2Y	2.8	R	PG+						
Cornelius	CB29X90	RRX	2.9	R	PG+						
Credenz	CZ2601LL	LL	2.6	R	EE,PV,IL						
Credenz	CZ2928LL	LL	2.9	R	EE,PV,IL						
Croplan	R2C2450 CK	RR2Y	2.4	R	None						
Dairyland	DSR-2616/R2Y	RR2Y	2.6	MR	CMB						
Dairyland	DSR-2909/R2Y	RR2Y	2.9	R	CMB						
FS HiSoy	HS 27X80	RRX	2.7	R	ACi,IL						
FS HiSoy	HS 28X70	RRX	2.8	R	ACi,IL						
FS HiSoy	HS 29X80	RRX,ST	2.9	R	ACi,IL						
Golden Harvest	GH2788X §	RRX	2.7	R	CCB,Me						
Golden Harvest	GH2981X §	RRX	2.9	R	CCB,Me						
Hefty	H28X8	RRX	2.8	MR	DST						
Hefty	H29X8	RRX	2.9	MR	DST						
Hoegemeyer	LL2579N	LL	2.5	R	CMB						
Kruger	K2X-2652	RRX	2.6	R	AC,PV,IL						
Kruger	K2X-2863	RRX	2.8	R	AC,PV,IL						
Kruger	K2X-2971	RRX	2.9	R	AC,PV,IL						
Latham	L2638GT27	G27	2.6	R	SS+						
Latham	L2682R2X	RRX	2.6	R	SS+						
Latham	L2887R2X	RRX	2.8	R	SS+						
Latham	L2982GT27	G27	2.9	R	SS+						
Legend	LS 27R524N	RR2Y	2.7	MR	YPP						
Legend	LS 28X840N	RRX	2.8	MR	YPP						
Legend	LS 29X952N	RRX	2.9	MR	YPP						
LG Seeds	C2888RX	RRX	2.8	R	ASfi,IL						
LG Seeds	LGS2680RX	RRX	2.6	S	ASfi,IL						
LG Seeds	LGS2759RX	RRX	2.7	R	ASfi,IL						
NK Brand	S27-M8X	RRX	2.7	R	CCB,Me						
NK Brand	S29-K3X	RRX	2.9	R	CCB,Me						
Pioneer	P27T59R §	RR	2.7	R	None						
Pioneer	P28T08R §	RR	2.8	R	EE,G,IL,Lu						
Pioneer	P28T71X §	RRX	2.8	R	None						
Renk	RS269X	RRX	2.6	S	EcTC						
Renk	RS288NX	RRX	2.8	R	EcTC						
Stine	27RI02 §	RR2Y	2.7	R	None						
Titan Pro	TP 26X37	RRX	2.6	MR	None						
Titan Pro	TP 28X47	RRX	2.8	MR	IL,PV						

Footnotes and Abbreviation Descriptions

Brand Footnotes

^	Innotech™ brand seed is distributed by Rob-See-Co, LLC. Innotech™ is a trademark of Syngenta.
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 Technologies

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

Soybean Cyst Nematode (SCN) Resistance Rating

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

Soybean Seed Treatments*

?	Information not provided	Gr+	Great Start™ Max Plus
A2020	Alert 2020™	I	insecticide
AC	Acceleron® fungicide products	IL	ILeVO®
ACi	Acceleron® fungicide and insecticide products	In	Intego™ Solo
AM	ApronMaxx®	IS	Intego™ Suite
ASfi	AgriShield® F+I	Lu	Lumisena™
AVB	Avicta® Complete Beans	Me	Mertect®
AVBV	Avicta® Complete Beans with Vibrance	None	untreated
BB	Buckeye Boost ST	Pd	proTect D™
CCB	Clariva™ Complete Beans	PG+	Profit Guard +™
CI	Clariva™ pn	PS	MAS Pro-Shield
CMB	CruiserMaxx® Beans	PV	Poncho®/Votivo®
CMBV	CruiserMaxx® Beans with Vibrance	R	Redigo™
DPHB	DPH Boost®	Ret	Revize® SB+T
DST	Dominance™ ST	Ri	Rizolex™
DX	Defend™ Extra	SF	Stine XP F
EcTC	Eclipse™ US Total coverage	SFI	Stine XP fungicide & insecticide
EE	Evergol™ Energy	SS	Soyshield™
EL	Elevate™ F+I	SS+	Soyshield Plus™
EL+	Elevate™ Plus	TE	Trius Elite™
En	Encase®	TT	Turbo Treat™
EQV	Equity® VIP	W	Warden® CX
Es	Escalate™	Wr	Warden® RTA
F	fungicide	YPP	YP Pro™
G	Gaucho®		

* Seed treatments may include unspecified plant health promoting components.