

2016 Soybean Top 30 Harvest Report

Iowa North [IANO] OSAGE

Dale Hemann, Mitchell County, IA 50461



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

PREV. CROP/HERB: Corn / Corvus
 SOIL DESCRIPTION: Dinsdale silty clay loam, well drained, non-irrigated
 SOIL CONDITIONS: High P, high K, 7.1 pH, 4.3 % OM
 TILLAGE/CULTIVATION: Minimum w/o fall till
 PEST MANAGEMENT: Roundup, Tailwind, Flexstar, Fusilade DX, Lorsban, Warrior
 SEEDED - RATE - ROW: May 16 155,000 /A 15" Spacing
 HARVESTED - STAND: Oct 13 142,400 /A

Early-Season Test
Maturity Group 1.8 - 2.1
 S2016IANO03a

Top 30 of 54
 For Gross Income (Sorted by Yield)
 Average of (3) Replications

Company/Brand	Product/Brand†	Technol.†	Mat.	SCN Resist.	Seed Trt.†	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income
Asgrow	AG2035 §	RR2Y	2.0	R	ACi	77.7	13.2	6	139.5	\$680
Latham	L2084R2	RR2Y	2.0	R	CCB,Me	73.7	13.3	9	142.9	\$644
Latham	L1858R2	RR2Y	1.8	R	CCB,Me	72.1	12.7	9	148.1	\$631
Champion	21X77N	RRX	2.1	R	AC,PV	72.0	12.5	6	141.2	\$630
Cornelius	CB21X22	RRX	2.1	R	ACi	71.8	12.5	9	141.2	\$628
Latham	L2184R2X	RRX	2.1	R	SS	71.6	12.5	9	141.2	\$627
NorthStar	NS 62002NXR2	RRX	2.0	R	CMBV	71.5	12.5	9	144.7	\$626
Prairie Brand	PB-2197R2	RR2Y	2.1	R	CCB,In	70.3	13.8	6	142.9	\$614
Cornelius	CB19R71	RR2Y	1.9	R	CMBV,IL	69.8	12.8	6	142.9	\$611
Stine	20RD20 §	RR2Y	2.0	R	SFI	69.6	12.7	3	141.2	\$609
Pfister	18R201	RR2Y	1.8	R	CCB	69.6	12.8	6	142.9	\$609
Renk	RS213NR2	RR2Y	2.1	R	CMBV	69.5	12.6	3	146.4	\$608
Cornelius	CB20R44	RR2Y	2.0	R	CMBV,IL	69.4	12.8	6	141.2	\$607
Dairyland	DSR-2017/R2Y	RR2Y	2.0	R	CMB	69.4	13.2	6	142.9	\$607
LG Seeds	C1870R2	RR2Y	1.8	R	CCB	69.2	12.9	6	144.7	\$606
Titan Pro	TP-21R55	RR2Y	2.1	R	IS	68.7	13.0	9	144.7	\$601
Pfister	19R24	RR2Y	1.9	R	CCB	68.6	12.4	6	142.9	\$600
Prairie Brand	PB-2024R2	RR2Y	2.1	R	CCB,In	68.5	12.8	7	142.9	\$599
Prairie Brand	PB-1947R2	RR2Y	1.9	R	CCB,In	68.4	12.8	6	141.2	\$599
Renk	RS195NR2	RR2Y	1.9	R	CMBV	68.2	12.7	6	137.8	\$597
Stine	19RF32 §	RR2Y	1.9	R	SFI	68.2	12.7	9	139.5	\$597
Hefty	H20X7	RRX	2.0	MR	DST	67.9	12.4	14	139.5	\$594
Titan Pro	TP-21X46	RRX	2.1	R	None	67.8	13.1	9	137.8	\$593
Channel	2108R2	RR2Y	2.1	R	ACi	67.6	13.5	6	141.2	\$591
NK Brand	S20-T6 §	RR2Y	2.0	MR	CCB,Me	67.5	12.8	9	144.7	\$591
Kruger	K2-2103	RR2Y	2.1	R	ACi	67.3	13.6	6	142.9	\$588
LG Seeds	C2126RX	RRX	2.1	R	CCB	67.2	12.4	9	146.4	\$588
Champion	19R85N	RR2Y	1.9	R	AC,PV	67.0	12.4	9	142.9	\$586
NorthStar	NS 2031NR2	RR2Y	2.0	R	CMBV	67.0	13.7	9	141.2	\$585
Renk	RS207NX	RRX	2.0	R	CMBV	66.5	12.9	9	139.5	\$582
Croplan	R2C2200 CK	RR2Y	2.2	R	WCX	69.9	13.5	6	144.7	\$611

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

Averages =	67.0	12.9	7	142.4	\$586
LSD (0.10) =	3.8	ns	6		
LSD (0.25) =	2.7	ns	4		
C.V. =	4.2			Prev. years avg. yield, 53.8 bu/a, 5 yrs	

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.020 Prices = \$8.75 GMO; \$8.75 non-GMO

TEST COMMENTS: This site was no-till planted into corn following a period of early May showers. The growing season was excellent here, with a few rains being excessive. White mold was found on scattered plants and appeared variety specific. SDS was noticeable, but not severe. Most harvest plant heights were tall but lodging was not an issue. Pods were filled all the way to the top and seed size was excellent.

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

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Report Date: 10/16/2016 Revised:

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 SOIL CONDITIONS: High P, high K, 7.1 pH, 4.3 % OM
 TILLAGE/CULTIVATION: Minimum w/o fall till
 PEST MANAGEMENT: Roundup, Tailwind, Flexstar, Fusilade DX, Lorsban, Warrior
 SEEDED - RATE - ROW: May 16 155,000 /A 15" Spacing
 HARVESTED - STAND: Oct 13 146,600 /A

Full-Season Test
Maturity Group 2.2 - 2.5
 S2016IANO03b

Top 30 of 36
 For Gross Income (Sorted by Yield)
 Average of (3) Replications

Company/Brand	Product/Brand†	Technol.†	Mat.	SCN Resist.	Seed Trt.†	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income
FS HiSoy	HS 23A42	RR2Y	2.3	R	ACi	77.5	14.0	9	144.7	\$677
Titan Pro	TP-24R26	RR2Y	2.4	R	IS	75.7	13.4	9	146.4	\$662
Prairie Brand	PB-2486R2	RR2Y	2.4	R	CCB,In	75.5	13.5	9	148.1	\$660
Pfister	24R201	RR2Y	2.4	R	CCB	75.3	13.7	9	148.1	\$658
Dairyland	DSR-2330/R2Y	RR2Y	2.3	R	CMB	74.8	13.5	9	149.8	\$654
LG Seeds	C2520R2	RR2Y	2.5	R	CCB	74.7	13.4	9	148.1	\$653
Renk	RS246NR2	RR2Y	2.4	R	CMBV	74.3	13.6	9	149.8	\$649
Channel	2306R2	RR2Y	2.3	R	ACi	73.7	14.0	9	146.4	\$643
NorthStar	NS 2362NR2	RR2Y	2.3	R	CMBV	73.4	13.2	9	149.8	\$642
Latham	L2348R2X	RRX	2.3	R	CCB,Me	73.1	13.4	9	148.1	\$639
NK Brand	S22-S1 §	RR2Y	2.2	R	CCB,Me	73.0	14.0	9	148.1	\$637
Federal	F2170NR2X GC	RRX	2.1	R	MAG	72.8	11.9	9	142.9	\$637
Stine	24RH62 §	RR2Y	2.4	R	SFI	72.8	13.5	9	142.9	\$636
Titan Pro	TP-23X76	RRX	2.3	R	IS	72.7	13.5	9	144.7	\$635
FS HiSoy	HS 23X60	RRX	2.3	R	ACi,CI	72.6	14.0	9	146.4	\$634
Federal	F247NRR2Y GC	RR2Y	2.4	R	MAG	72.1	13.6	9	146.4	\$630
Cornelius	CB23X45	RRX	2.3	R	ACi	72.0	13.4	9	142.9	\$629
Prairie Brand	PB-2296R2	RR2Y	2.2	R	CCB,In	71.5	13.2	9	148.1	\$625
Hefty	H25X7	RRX	2.5	MR	DST	70.5	13.6	9	146.4	\$616
NorthStar	NS 2282NR2	RR2Y	2.2	R	CMBV	70.3	13.4	9	148.1	\$615
LG Seeds	C2441R2	RR2Y	2.4	R	CCB	70.0	13.0	9	148.1	\$613
Cornelius	CB22R34	RR2Y	2.2	R	CMBV,IL	69.8	13.2	9	146.4	\$610
Latham	L2228R2	RR2Y	2.2	R	CCB,Me	69.8	13.8	9	148.1	\$610
Latham	L2482R2	RR2Y	2.4	R	CCB,Me	69.7	13.7	9	144.7	\$609
Channel	2416R2X §	RRX	2.4	R	ACi	69.7	13.9	17	148.1	\$609
Latham	L2454R2X	RRX	2.4	S	CCB,Me	69.2	13.7	14	149.8	\$605
Asgrow	AG24X7 §	RRX	2.4	R	ACi	69.1	13.3	9	146.4	\$604
Hefty	H24X6	RRX	2.4	MR	DST	68.5	13.8	14	148.1	\$598
Croplan	R2C2450 §	RR2Y	2.4	R	WCX	68.3	13.8	9	144.7	\$597
Hefty	H23X7	RRX	2.3	S	DST	67.0	13.4	11	144.7	\$586
Croplan	R2C2200 CK	RR2Y	2.2	R	WCX	71.7	13.4	9	144.7	\$627

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Averages =	70.8	13.6	10	146.6	\$619
LSD (0.10) =	3.8	0.6	4		
LSD (0.25) =	2.6	0.4	3		
C.V. =	3.9			Prev. years avg. yield, 53.8 bu/a, 5 yrs	

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.020 Prices = \$8.75 GMO; \$8.75 non-GMO

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2016 Soybean - Iowa North [IANO]
Early-Season Test Products (54 Total)

Company/Brand	Product/Brand	Technol.	Mat.	SCN	Seed Trt	Company/Brand	Product/Brand	Technol.	Mat.	SCN	Seed Trt
Asgrow	AG1935 §	RR2Y	1.9	R	ACi	Renk	RS213NR2	RR2Y	2.1	R	CMBV
Asgrow	AG2035 §	RR2Y	2.0	R	ACi	Steyer	2102R2	RR2Y	2.1	MR	SStd
Champion	19R85N	RR2Y	1.9	R	AC,PV	Steyer	2103XR	RRX	2.1	MR	SStd
Champion	19X97N	RRX	1.9	R	AC,PV	Stine	19RF32 §	RR2Y	1.9	R	SFI
Champion	20R35N	RR2Y	2.0	R	AC,PV	Stine	20RD20 §	RR2Y	2.0	R	SFI
Champion	21X77N	RRX	2.1	R	AC,PV	Titan Pro	TP-19X06	RRX	1.9	R	IS
Channel	2108R2	RR2Y	2.1	R	ACi	Titan Pro	TP-20R25	RR2Y	2.0	R	IS
Cornelius	CB19R71	RR2Y	1.9	R	CMBV,IL	Titan Pro	TP-21R55	RR2Y	2.1	R	IS
Cornelius	CB20R44	RR2Y	2.0	R	CMBV,IL	Titan Pro	TP-21X46	RRX	2.1	R	None
Cornelius	CB21X22	RRX	2.1	R	ACi						
Croplan	R2C2200 CK	RR2Y	2.2	R	WCX						
Dairyland	DSR-1870/R2Y	RR2Y	1.8	R	CMB						
Dairyland	DSR-2017/R2Y	RR2Y	2.0	R	CMB						
Dairyland	DSR-2110/R2Y	RR2Y	2.1	R	CMB						
FS HiSoy	HS 18X60	RRX	1.8	R	ACi,Ci						
FS HiSoy	HS 19A50	RR2Y	1.9	R	ACi,Ci						
FS HiSoy	HS 21X60	RRX	2.1	R	ACi,Ci						
Hefty	H18X7	RRX	1.8	MR	DST						
Hefty	H20X7	RRX	2.0	MR	DST						
Hefty	H21X6	RRX	2.1	MR	DST						
Kruger	K2-1801	RR2Y	1.8	R	ACi						
Kruger	K2-2103	RR2Y	2.1	R	ACi						
Latham	L1858R2	RR2Y	1.8	R	CCB,Me						
Latham	L1968R2	RR2Y	1.9	R	CCB,Me						
Latham	L2084R2	RR2Y	2.0	R	CCB,Me						
Latham	L2184R2X	RRX	2.1	R	SS						
LG Seeds	C1870R2	RR2Y	1.8	R	CCB						
LG Seeds	C2126RX	RRX	2.1	R	CCB						
NK Brand	S20-T6 §	RR2Y	2.0	MR	CCB,Me						
NorthStar	NS 1916NR2	RR2Y	2.0	R	CMBV						
NorthStar	NS 2031NR2	RR2Y	2.0	R	CMBV						
NorthStar	NS 61882NXR2	RRX	1.8	R	CMBV						
NorthStar	NS 62002NXR2	RRX	2.0	R	CMBV						
Pfister	18R201	RR2Y	1.8	R	CCB						
Pfister	19R24	RR2Y	1.9	R	CCB						
Pfister	21R203	RR2Y	2.1	R	CCB						
Pfister	21R205	RR2Y	2.1	R	CCB						
Pioneer	P20T79R2 §	RR2Y	2.0	R	None						
Prairie Brand	PB-1822R2	RR2Y	1.8	R	CCB,In						
Prairie Brand	PB-1947R2	RR2Y	1.9	R	CCB,In						
Prairie Brand	PB-2024R2	RR2Y	2.1	R	CCB,In						
Prairie Brand	PB-2197R2	RR2Y	2.1	R	CCB,In						
Renk	RS177NX	RRX	1.8	R	CMBV						
Renk	RS195NR2	RR2Y	1.9	R	CMBV						
Renk	RS207NX	RRX	2.0	R	CMBV						

2016 Soybean - Iowa North [IANO]

Full-Season Test Products (36 Total)

Company/Brand	Product/Brand	Technol.	Mat.	SCN	Seed Trt	Company/Brand	Product/Brand	Technol.	Mat.	SCN	Seed Trt
Asgrow	AG24X7 §	RRX	2.4	R	ACi						
Channel	2306R2	RR2Y	2.3	R	ACi						
Channel	2416R2X §	RRX	2.4	R	ACi						
Cornelius	CB22R34	RR2Y	2.2	R	CMBV,IL						
Cornelius	CB23X45	RRX	2.3	R	ACi						
Croplan	R2C2200 CK	RR2Y	2.2	R	WCX						
Croplan	R2C2450 §	RR2Y	2.4	R	WCX						
Dairyland	DSR-2330/R2Y	RR2Y	2.3	R	CMB						
Federal	F2170NR2X GC	RRX	2.1	R	MAG						
Federal	F247NRR2Y GC	RR2Y	2.4	R	MAG						
FS HiSoy	HS 23A42	RR2Y	2.3	R	ACi						
FS HiSoy	HS 23X60	RRX	2.3	R	ACi,Ci						
Hefty	H23X7	RRX	2.3	S	DST						
Hefty	H24X6	RRX	2.4	MR	DST						
Hefty	H25X7	RRX	2.5	MR	DST						
Latham	L2228R2	RR2Y	2.2	R	CCB,Me						
Latham	L2348R2X	RRX	2.3	R	CCB,Me						
Latham	L2454R2X	RRX	2.4	S	CCB,Me						
Latham	L2482R2	RR2Y	2.4	R	CCB,Me						
LG Seeds	C2441R2	RR2Y	2.4	R	CCB						
LG Seeds	C2520R2	RR2Y	2.5	R	CCB						
NK Brand	S22-S1 §	RR2Y	2.2	R	CCB,Me						
NK Brand	S25-L9 §	RR2Y	2.5	R	CCB,Me						
NorthStar	NS 2282NR2	RR2Y	2.2	R	CMBV						
NorthStar	NS 2362NR2	RR2Y	2.3	R	CMBV						
NorthStar	NS 62332NXR2	RRX	2.3	R	CMBV						
Pfister	24R201	RR2Y	2.4	R	CCB						
Pioneer	P22T41R2 §	RR2Y	2.2	R	EE,G						
Pioneer	P25T51R §	RR	2.5	R	EE,G						
Prairie Brand	PB-2296R2	RR2Y	2.2	R	CCB,In						
Prairie Brand	PB-2486R2	RR2Y	2.4	R	CCB,In						
Renk	RS246NR2	RR2Y	2.4	R	CMBV						
Stine	24RE03 §	RR2Y	2.4	MR	SFI						
Stine	24RH62 §	RR2Y	2.4	R	SFI						
Titan Pro	TP-23X76	RRX	2.3	R	IS						
Titan Pro	TP-24R26	RR2Y	2.4	R	IS						

Footnotes and Abbreviation Descriptions

Brand Footnotes

^	G2® brand seed is distributed by NuTech Seed, LLC. RPM® brand seed is distributed by Doeblers PA Hybrids, Inc. Supreme EX® brand seed is distributed by Seed Consultants, Inc. VPMaxx® brand seed is distributed by AgVenture, Inc. XL® brand seed is distributed by Beck's Superior Hybrids. Curry®, G2®, HPT®, RPM®, Supreme EX®, VPMaxx® and XL® are registered trademarks of DuPont Pioneer.
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

LL	LibertyLink®
None	Conventional, non-GMO
P	Plenish®
RR	glyphosate tolerant
RR2Y	Genuity® Roundup Ready 2 Yield®
RRX	Genuity® Roundup Ready 2 Xtend®
ST	sulfonylurea tolerant

Soybean Cyst Nematode (SCN) Resistance Rating

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

Soybean Seed Treatments*

n/a	info unavailable	IL	ILeVO®
AC	Acceleron® fungicide products	In	Intego™ Solo
ACi	Acceleron® fungicide and insecticide products	IS	Intego™ Suite
AG	ArmourGuard™	MAG	Maximum ArmourGuard™
AM	ApronMaxx®	Me	Mertect®
AVB	Avicta® Complete Beans	Mg	Magnum ST™ (standard)
CCB	Clariva™ Complete Beans	NCFI	N-Compass™ Plus F/I
CI	Clariva™ pn	None	untreated
CMB	CruiserMaxx® Beans	PV	Poncho®/Votivo®
CMBV	CruiserMaxx® Beans with Vibrance	SDPI	Servo™ DPI
DPHB	DPH Boost®	SFI	Stine XP fungicide & insecticide
DST	Dominance™ ST	SS	Soyshield™
DX	Defend™ Extra	SS+	Soyshield Plus™
EE	Evergol™ Energy	SStd	SureStand™
En	Encase®	TE	Trius™ Elite
G	Gaucho®	WCX	Warden® CX
Gr+	Great Start™ Max Plus		

* Seed treatments may include unspecified plant health promoting components.