

2016 Soybean Top 30 Harvest Report

Iowa North [IANO] EMMETSBURG

Iowa Lakes Comm. College, Tom Quastad, Palo Alto County, IA 50536



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

PREV. CROP/HERB: Corn / Breakfree NXT Lite, Realm Q
 SOIL DESCRIPTION: Nicollet-Clarion clay loam, mod. well drained, non-irrigated
 SOIL CONDITIONS: Mod. High P, high K, 6.9 pH, 4.4 % OM
 TILLAGE/CULTIVATION: Conventional w/ fall till
 PEST MANAGEMENT: Enlite, Roundup, Stratego, Cobalt
 SEEDED - RATE - ROW: May 18 155,000 /A 15" Spacing
 HARVESTED - STAND: Oct 11 144,800 /A

Early-Season Test
Maturity Group 1.8 - 2.1
 S2016IANO01a

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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 |
|---------------|----------------|-----------|------|-------------|------------|-------------|------------|-----------|----------------|--------------|
| Titan Pro | TP-21X46 | RRX | 2.1 | R | None | 82.0 | 13.0 | 0 | 142.9 | \$718 |
| Pfister | 21R205 | RR2Y | 2.1 | R | CCB | 79.5 | 13.5 | 0 | 148.1 | \$695 |
| Prairie Brand | PB-1822R2 | RR2Y | 1.8 | R | CCB,In | 79.3 | 14.1 | 8 | 146.4 | \$692 |
| Asgrow | AG1935 § | RR2Y | 1.9 | R | ACi | 78.6 | 13.6 | 0 | 146.4 | \$687 |
| FS HiSoy | HS 21X60 | RRX | 2.1 | R | ACi,CI | 78.3 | 13.1 | 0 | 142.9 | \$685 |
| Champion | 20R35N | RR2Y | 2.0 | R | AC,PV | 77.5 | 13.5 | 0 | 141.2 | \$677 |
| Kruger | K2-2103 | RR2Y | 2.1 | R | ACi | 77.0 | 13.5 | 0 | 139.5 | \$673 |
| LG Seeds | C2126RX | RRX | 2.1 | R | CCB | 76.9 | 13.3 | 0 | 144.7 | \$672 |
| Cornelius | CB20R44 | RR2Y | 2.0 | R | CMBV,IL | 76.8 | 13.5 | 0 | 149.8 | \$671 |
| Hefty | H20X7 | RRX | 2.0 | MR | DST | 76.4 | 13.3 | 0 | 141.2 | \$668 |
| Stine | 20RD20 § | RR2Y | 2.0 | R | SFI | 76.4 | 13.5 | 0 | 146.4 | \$668 |
| Channel | 2108R2 | RR2Y | 2.1 | R | ACi | 76.3 | 13.5 | 0 | 148.1 | \$667 |
| FS HiSoy | HS 18X60 | RRX | 1.8 | R | ACi,CI | 76.2 | 13.9 | 0 | 139.5 | \$665 |
| Prairie Brand | PB-2024R2 | RR2Y | 2.1 | R | CCB,In | 76.1 | 13.5 | 0 | 148.1 | \$665 |
| Dairyland | DSR-2110/R2Y | RR2Y | 2.1 | R | CMB | 76.0 | 13.4 | 0 | 144.7 | \$664 |
| Renk | RS213NR2 | RR2Y | 2.1 | R | CMBV | 76.0 | 13.5 | 0 | 146.4 | \$664 |
| NK Brand | S20-T6 § | RR2Y | 2.0 | MR | CCB,Me | 76.0 | 13.8 | 0 | 142.9 | \$664 |
| Asgrow | AG2035 § | RR2Y | 2.0 | R | ACi | 75.5 | 13.6 | 0 | 144.7 | \$660 |
| Latham | L1968R2 | RR2Y | 1.9 | R | CCB,Me | 75.0 | 13.2 | 0 | 146.4 | \$656 |
| Titan Pro | TP-21R55 | RR2Y | 2.1 | R | IS | 74.7 | 13.6 | 3 | 142.9 | \$653 |
| Steyer | 2103XR | RRX | 2.1 | MR | SStd | 74.4 | 13.6 | 3 | 142.9 | \$650 |
| Champion | 19R85N | RR2Y | 1.9 | R | AC,PV | 73.5 | 14.1 | 3 | 142.9 | \$642 |
| Dairyland | DSR-1870/R2Y | RR2Y | 1.8 | R | CMB | 73.0 | 13.3 | 0 | 142.9 | \$638 |
| Titan Pro | TP-20R25 | RR2Y | 2.0 | R | IS | 72.9 | 14.4 | 0 | 148.1 | \$636 |
| LG Seeds | C1870R2 | RR2Y | 1.8 | R | CCB | 72.8 | 13.5 | 5 | 148.1 | \$636 |
| Stine | 19RF32 § | RR2Y | 1.9 | R | SFI | 72.7 | 13.3 | 0 | 144.7 | \$636 |
| Latham | L2184R2X | RRX | 2.1 | R | SS | 72.7 | 13.5 | 0 | 144.7 | \$635 |
| Cornelius | CB21X22 | RRX | 2.1 | R | ACi | 72.6 | 13.6 | 1 | 148.1 | \$634 |
| NorthStar | NS 62002NXR2 | RRX | 2.0 | R | CMBV | 72.5 | 13.6 | 0 | 146.4 | \$634 |
| Prairie Brand | PB-2197R2 | RR2Y | 2.1 | R | CCB,In | 72.5 | 14.1 | 0 | 142.9 | \$633 |
| Croplan | R2C2200 CK | RR2Y | 2.2 | R | WCX | 74.5 | 13.9 | 3 | 144.7 | \$651 |

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| | | | | | |
|--------------|-------------|-------------|----------|--------------|-------------------------------------------|
| Averages = | 72.9 | 13.7 | 1 | 144.8 | \$637 |
| LSD (0.10) = | 5.1 | 0.7 | ns | | |
| LSD (0.25) = | 3.6 | 0.5 | ns | | |
| C.V. = | 5.2 | | | | Prev. years avg. yield, 54.3 bu/a, 13 yrs |

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

TEST COMMENTS: *Many area fields were planted in late May. Much of June was dry, but rains returned in first couple weeks of July. September was wet resulting in excellent seed fill and yields well above average. Largest rain events were 1.7" July 7, 1.9" July 10-11, followed by 3.5" Sept 5-7. Seasonal rainfall totals from planting through R6 on Aug 4 ended at about 0.5" below the 30-yr average for this area.*

† 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: 10/12/2016 Revised:

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Iowa Lakes Comm. College, Tom Quastad, Palo Alto County, IA 50536



PREV. CROP/HERB: Corn / Breakfree NXT Lite, Realm Q
 SOIL DESCRIPTION: Nicollet-Clarion clay loam, mod. well drained, non-irrigated
 SOIL CONDITIONS: Mod. High P, high K, 6.9 pH, 4.4 % OM
 TILLAGE/CULTIVATION: Conventional w/ fall till
 PEST MANAGEMENT: Enlite, Roundup, Stratego, Cobalt
 SEEDED - RATE - ROW: May 18 155,000 /A 15" Spacing
 HARVESTED - STAND: Oct 11 143,850 /A

Full-Season Test
Maturity Group 2.2 - 2.5
 S2016IANO01b

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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 |
|---------------|----------------|-----------|------|-------------|------------|-------------|------------|-----------|----------------|--------------|
| NorthStar | NS 2362NR2 | RR2Y | 2.3 | R | CMBV | 81.6 | 13.8 | 16 | 148.1 | \$713 |
| NorthStar | NS 62332NXR2 | RRX | 2.3 | R | CMBV | 78.2 | 13.6 | 0 | 141.2 | \$683 |
| Pfister | 24R201 | RR2Y | 2.4 | R | CCB | 77.6 | 13.7 | 12 | 144.7 | \$678 |
| Latham | L2482R2 | RR2Y | 2.4 | R | CCB,Me | 77.3 | 14.0 | 15 | 148.1 | \$675 |
| Latham | L2228R2 | RR2Y | 2.2 | R | CCB,Me | 77.3 | 13.8 | 16 | 146.4 | \$675 |
| Federal | F247NRR2Y GC | RR2Y | 2.4 | R | MAG | 77.2 | 13.9 | 22 | 144.7 | \$674 |
| Dairyland | DSR-2330/R2Y | RR2Y | 2.3 | R | CMB | 76.7 | 13.7 | 8 | 143.0 | \$670 |
| Titan Pro | TP-24R26 | RR2Y | 2.4 | R | IS | 76.3 | 13.7 | 8 | 144.7 | \$667 |
| LG Seeds | C2520R2 | RR2Y | 2.5 | R | CCB | 76.2 | 13.7 | 25 | 143.0 | \$666 |
| Prairie Brand | PB-2486R2 | RR2Y | 2.4 | R | CCB,In | 76.1 | 13.7 | 13 | 144.7 | \$665 |
| Renk | RS246NR2 | RR2Y | 2.4 | R | CMBV | 76.0 | 13.8 | 8 | 146.4 | \$664 |
| Stine | 24RH62 § | RR2Y | 2.4 | R | SFI | 75.9 | 13.8 | 3 | 144.7 | \$663 |
| LG Seeds | C2441R2 | RR2Y | 2.4 | R | CCB | 75.4 | 13.4 | 3 | 144.7 | \$659 |
| Pioneer | P25T51R § | RR | 2.5 | R | EE,G | 73.8 | 14.2 | 7 | 144.7 | \$644 |
| Channel | 2416R2X § | RRX | 2.4 | R | ACi | 72.7 | 14.5 | 27 | 141.2 | \$634 |
| Hefty | H24X6 | RRX | 2.4 | MR | DST | 72.6 | 14.4 | 12 | 141.2 | \$633 |
| Latham | L2348R2X | RRX | 2.3 | R | CCB,Me | 72.5 | 13.7 | 12 | 141.2 | \$633 |
| Titan Pro | TP-23X76 | RRX | 2.3 | R | IS | 72.4 | 13.9 | 4 | 143.0 | \$632 |
| FS HiSoy | HS 23A42 | RR2Y | 2.3 | R | ACi | 71.6 | 14.1 | 1 | 141.2 | \$625 |
| Cornelius | CB23X45 | RRX | 2.3 | R | ACi | 71.5 | 13.9 | 1 | 144.7 | \$624 |
| Cornelius | CB22R34 | RR2Y | 2.2 | R | CMBV,IL | 71.5 | 13.9 | 19 | 139.5 | \$624 |
| FS HiSoy | HS 23X60 | RRX | 2.3 | R | ACi,CI | 71.2 | 14.3 | 3 | 144.7 | \$621 |
| Prairie Brand | PB-2296R2 | RR2Y | 2.2 | R | CCB,In | 70.8 | 14.1 | 21 | 146.4 | \$618 |
| Hefty | H25X7 | RRX | 2.5 | MR | DST | 70.4 | 14.3 | 1 | 139.5 | \$614 |
| Pioneer | P22T41R2 § | RR2Y | 2.2 | R | EE,G | 68.6 | 14.2 | 21 | 143.0 | \$599 |
| Federal | F2170NR2X GC | RRX | 2.1 | R | MAG | 68.5 | 13.8 | 11 | 141.2 | \$598 |
| Channel | 2306R2 | RR2Y | 2.3 | R | ACi | 68.2 | 13.7 | 23 | 143.0 | \$596 |
| Latham | L2454R2X | RRX | 2.4 | S | CCB,Me | 65.8 | 14.8 | 43 | 144.7 | \$573 |
| Asgrow | AG24X7 § | RRX | 2.4 | R | ACi | 64.8 | 14.2 | 10 | 144.7 | \$565 |
| NK Brand | S25-L9 § | RR2Y | 2.5 | R | CCB,Me | 63.7 | 14.7 | 11 | 144.7 | \$555 |
| Croplan | R2C2200 CK | RR2Y | 2.2 | R | WCX | 71.8 | 14.0 | 16 | 144.7 | \$627 |

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| | | | | | |
|--------------|-------------|-------------|-----------|-------------------------------------------|--------------|
| Averages = | 71.4 | 14.1 | 14 | 143.9 | \$623 |
| LSD (0.10) = | 4.9 | 0.7 | ns | | |
| LSD (0.25) = | 3.4 | 0.5 | ns | | |
| C.V. = | 5.2 | | | Prev. years avg. yield, 54.3 bu/a, 13 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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 Report Date: 10/12/2016 Revised:

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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. VPMmax® brand seed is distributed by AgVenture, Inc. XL® brand seed is distributed by Beck's Superior Hybrids. Curry®, G2®, HPT®, RPM®, Supreme EX®, VPMmax® 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.