

2018 Soybean Top 30 Harvest Report

Iowa South Central [IASC] YALE

Dennis Mleynek, Guthrie County, IA 50216



Test by: F.I.R.S.T. CCB, Inc., Elizabeth, IL

PREV. CROP/HERB: Corn / SureStart, Roundup
 SOIL DESCRIPTION: Clarion loam, well drained, non-irrigated
 SOIL CONDITIONS: Medium P, medium K, 5.9 pH, 2.5% OM, 15.3 CEC
 TILLAGE/CULTIVATION: Conventional w/ fall till
 PEST MANAGEMENT: Abundit Edge, Bronc Triple, Renegade, Ringside, Volunteer
 APPLIED N-P-K (units): 0-0-0
 SEEDED - RATE - ROW: May 18 160,000 /A 15" Spacing
 HARVESTED - STAND: Oct 20 134,500 /A

Early-Season Test

Maturity Group 2.3 - 2.7

S2018IASC44a

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 | 67.4 | 11.3 | 1 | 155.3 | \$510 | 1 |
| Latham | L2549R2X | RRX | 2.5 | R | 67.2 | 11.1 | 1 | 143.4 | \$509 | 2 |
| Cornelius | CB27X81 | RRX | 2.7 | R | 66.5 | 12.2 | 1 | 119.5 | \$503 | 3 |
| Latham | L2464R2X | RRX | 2.4 | R | 66.3 | 11.6 | 1 | 137.4 | \$502 | 4 |
| Legend | LS 24X842N | RRX | 2.4 | MR | 65.6 | 11.4 | 3 | 137.4 | \$497 | 5 |
| Cornelius | CB24X64 | RRX | 2.4 | R | 65.5 | 11.7 | 2 | 143.4 | \$496 | 6 |
| NK Brand | S27-M8X § | RRX | 2.7 | R | 65.4 | 11.2 | 1 | 125.5 | \$495 | 7 |
| LG Seeds | LGS2444RX | RRX | 2.4 | R | 65.2 | 11.5 | 1 | 131.4 | \$494 | 8 |
| FS HiSoy | HS 24X80 | RRX | 2.4 | R | 64.9 | 11.8 | 1 | 125.5 | \$491 | 9 |
| Renk | RS248NX | RRX | 2.4 | R | 64.7 | 11.8 | 2 | 131.4 | \$490 | 10 |
| Champion | 24X98N | RRX | 2.4 | R | 64.2 | 11.7 | 5 | 173.2 | \$486 | 12 |
| FS HiSoy | HS 25X70 | RRX | 2.5 | R | 64.1 | 11.7 | 1 | 107.5 | \$485 | 13 |
| Stine | 28BA02 § | G27 | 2.8 | R | 64.1 | 11.1 | 8 | 143.4 | \$485 | 14 |
| Titan Pro | TP 24X87 | RRX | 2.4 | MR | 63.2 | 11.9 | 1 | 149.3 | \$478 | 15 |
| Kruger | K2X-2652 | RRX | 2.6 | R | 63.2 | 11.4 | 5 | 137.4 | \$478 | 16 |
| Renk | RS269X | RRX | 2.6 | S | 62.4 | 11.5 | 3 | 107.5 | \$472 | 17 |
| Pfister | 24R201 | RR2Y | 2.4 | R | 62.2 | 11.7 | 9 | 137.4 | \$471 | 18 |
| Stine | 24RH62 § | RR2Y | 2.4 | R | 61.9 | 11.5 | 10 | 113.5 | \$469 | 19 |
| LG Seeds | LGS2759RX | RRX | 2.7 | R | 61.3 | 11.5 | 1 | 137.4 | \$464 | 20 |
| Kruger | K2X-2442 | RRX | 2.4 | R | 60.9 | 11.7 | 5 | 125.5 | \$461 | 21 |
| Renk | RS239NX | RRX | 2.3 | R | 60.7 | 11.2 | 9 | 143.4 | \$459 | 22 |
| Latham | E2647R2X | RRX | 2.6 | S | 60.6 | 11.2 | 5 | 131.4 | \$459 | 23 |
| Asgrow | AG24X7 § | RRX | 2.4 | R | 60.5 | 11.7 | 2 | 137.4 | \$458 | 24 |
| Champion | 23X78N | RRX | 2.3 | R | 59.8 | 11.4 | 3 | 143.4 | \$453 | 25 |
| Latham | L2482R2 | RR2Y | 2.4 | R | 59.4 | 11.5 | 4 | 107.5 | \$450 | 26 |
| Champion | 26X09N | RRX | 2.6 | MR | 59.3 | 11.5 | 1 | 125.5 | \$449 | 27 |
| Hefty | H23X9 | RRX | 2.3 | MR | 59.0 | 11.6 | 1 | 173.2 | \$447 | 28 |
| LG Seeds | LGS2680RX | RRX | 2.6 | S | 59.0 | 10.9 | 3 | 131.4 | \$447 | 29 |
| Legend | LS 27R524N | RR2Y | 2.7 | MR | 58.5 | 11.6 | 1 | 107.5 | \$443 | 30 |
| Hefty | H24X8 | RRX | 2.4 | MR | 58.2 | 11.8 | 4 | 119.5 | \$441 | 31 |
| Pioneer | P25A27X CK | RRX | 2.5 | R | 64.3 | 11.1 | 1 | 155.3 | \$487 | 11 |

Averages = **60.2** **11.5** **4** **134.5** **\$456**

LSD (0.10) = 3.7 0.3 4.4

LSD (0.25) = 1.9 0.2 2.3

C.V. = 5.8 Prev. years avg. yield, 58.7 bu/a, 15 yrs

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.020 Prices = \$7.57 GMO; \$7.57 non-GMO

TEST COMMENTS: *The soil at planting was mellow with good moisture. Seedling emergence was good. At harvest, plants stood 30 to 47 inches tall with numerous pods containing small sized seed. Some varieties had dark shriveled seed, possibly Phomopsis seed decay, that impacted yield. Dennis, our host farmer, stated that the nearby elevator had reports of damaged soybeans in the 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.

Additional reports available at www.firstseedtests.com

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Report Date: 10/22/2018 Revised:

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PREV. CROP/HERB: Corn / SureStart, Roundup
SOIL DESCRIPTION: Clarion loam, well drained, non-irrigated
SOIL CONDITIONS: Medium P, medium K, 5.9 pH, 2.5% OM, 15.3 CEC
TILLAGE/CULTIVATION: Conventional w/ fall till
PEST MANAGEMENT: Abundit Edge, Bronc Triple, Renegade, Ringside, Volunteer
APPLIED N-P-K (units): 0-0-0
SEEDED - RATE - ROW: May 18 160,000 /A 15" Spacing
HARVESTED - STAND: Oct 20 151,200 /A

Full-Season Test
Maturity Group 2.8 - 3.2
S2018IASC44b

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 | GH3088X | RRX | 3.0 | MR | 69.1 | 11.1 | 5 | 161.3 | \$523 | 1 |
| Cornelius | CB29X90 | RRX | 2.9 | R | 68.2 | 11.5 | 1 | 173.2 | \$516 | 2 |
| NK Brand | S31-Y2X | RRX | 3.1 | R | 67.6 | 11.5 | 1 | 173.2 | \$512 | 3 |
| Kruger | K2X-2863 | RRX | 2.8 | R | 67.3 | 11.2 | 1 | 113.5 | \$509 | 4 |
| Pioneer | P33A53X § | RRX | 3.3 | R | 66.9 | 11.7 | 1 | 131.4 | \$506 | 5 |
| Pioneer | P29A25X § | RRX | 2.9 | R | 66.5 | 11.9 | 1 | 167.3 | \$503 | 6 |
| Cornelius | CB28R58 | RR2Y | 2.8 | R | 66.5 | 12.1 | 2 | 167.3 | \$503 | 7 |
| Renk | RS309NSX | RRX,ST | 3.0 | R | 66.2 | 11.4 | 1 | 137.4 | \$501 | 8 |
| FS HiSoy | HS 30X80 | RRX | 3.0 | R | 65.6 | 11.3 | 1 | 197.1 | \$497 | 9 |
| FS HiSoy | HS 29X80 | RRX,ST | 2.9 | R | 65.0 | 11.5 | 1 | 131.4 | \$492 | 10 |
| Kruger | K2X-2971 | RRX | 2.9 | R | 64.8 | 11.3 | 5 | 113.5 | \$491 | 11 |
| Pioneer | P31A22X § | RRX | 3.1 | R | 64.8 | 11.5 | 8 | 179.2 | \$491 | 12 |
| Legend | LS 29X952N | RRX | 2.9 | MR | 64.4 | 11.6 | 1 | 113.5 | \$488 | 13 |
| Dairyland | DSR-2909/R2Y | RR2Y | 2.9 | R | 64.3 | 11.5 | 5 | 161.3 | \$487 | 14 |
| LG Seeds | LGS3297RX | RRX | 3.2 | R | 64.2 | 11.6 | 1 | 173.2 | \$486 | 15 |
| LG Seeds | C2888RX | RRX | 2.8 | R | 63.5 | 11.6 | 2 | 155.3 | \$481 | 16 |
| Pfister | 32R201 § | RR2Y | 3.2 | R | 63.3 | 11.7 | 5 | 173.2 | \$479 | 17 |
| Champion | 30XS39N | RRX,ST | 3.0 | R | 63.2 | 11.3 | 2 | 143.4 | \$478 | 18 |
| Cornelius | CB31X25 | RRX | 3.1 | R | 62.3 | 11.7 | 1 | 149.3 | \$472 | 19 |
| Titan Pro | TP 28X47 | RRX | 2.8 | MR | 61.8 | 11.4 | 1 | 137.4 | \$468 | 21 |
| Hefty | H29X8 | RRX | 2.9 | MR | 61.3 | 11.4 | 1 | 161.3 | \$464 | 22 |
| Champion | 28X78N | RRX | 2.8 | R | 61.3 | 11.3 | 4 | 131.4 | \$464 | 23 |
| Latham | L2982GT27 | G27 | 2.9 | R | 60.6 | 11.2 | 8 | 119.5 | \$459 | 24 |
| Dairyland | DSR-3250/R2Y | RR2Y | 3.2 | R | 60.3 | 11.4 | 9 | 155.3 | \$456 | 25 |
| Titan Pro | TP 32X58 | RRX | 3.2 | MR | 60.2 | 12.0 | 1 | 119.5 | \$456 | 26 |
| Golden Harvest | GH2981X | RRX | 2.9 | R | 60.2 | 12.0 | 1 | 167.3 | \$456 | 27 |
| FS HiSoy | HS 28X70 | RRX | 2.8 | R | 59.5 | 11.3 | 1 | 185.2 | \$450 | 28 |
| Latham | L2887R2X | RRX | 2.8 | R | 59.2 | 11.4 | 1 | 179.2 | \$448 | 29 |
| LG Seeds | LGS3140RX | RRX | 3.1 | R | 59.1 | 12.0 | 1 | 161.3 | \$447 | 30 |
| Legend | LS 28X840N | RRX | 2.8 | MR | 58.3 | 11.7 | 4 | 185.2 | \$441 | 31 |
| Pioneer | P25A27X CK | RRX | 2.5 | R | 62.0 | 11.0 | 1 | 149.3 | \$469 | 20 |

Averages = **60.9** **11.5** **3** **151.2** **\$461**

LSD (0.10) = 3.6 0.4 4.6

LSD (0.25) = 1.9 0.2 2.4

C.V. = 5.6

Prev. years avg. yield, 58.7 bu/a, 15 yrs

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.020 Prices = \$7.57 GMO; \$7.57 non-GMO

TEST COMMENTS: *The soil at planting was mellow with good moisture. Seedling emergence was good. At harvest, plants stood 30 to 47 inches tall with numerous pods containing small sized seed. Some varieties had dark shriveled seed, possibly Phomopsis seed decay, that impacted yield. Dennis, our host farmer, stated that the nearby elevator had reports of damaged soybeans in the 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: 10/22/2018 Revised:

2018 Soybean - Iowa South Central [IASC]

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 | AG32X8 § | RRX | 3.2 | R | AC,PV | | | | | | |
| Champion | 28X78N | RRX | 2.8 | R | EL,IL | | | | | | |
| Champion | 30XS39N | RRX,ST | 3.0 | R | EL | | | | | | |
| Champion | 32X89N | RRX | 3.2 | R | EL | | | | | | |
| Cornelius | CB28R58 | RR2Y | 2.8 | R | PG+ | | | | | | |
| Cornelius | CB29X90 | RRX | 2.9 | R | PG+ | | | | | | |
| Cornelius | CB31X25 | RRX | 3.1 | R | PG+ | | | | | | |
| Dairyland | DSR-2909/R2Y | RR2Y | 2.9 | R | CMB | | | | | | |
| Dairyland | DSR-3028/R2Y | RR2Y | 3.0 | MR | CMB | | | | | | |
| Dairyland | DSR-3250/R2Y | RR2Y | 3.2 | R | CMB | | | | | | |
| FS HiSoy | HS 28X70 | RRX | 2.8 | R | ACi,IL | | | | | | |
| FS HiSoy | HS 29X80 | RRX,ST | 2.9 | R | ACi,IL | | | | | | |
| FS HiSoy | HS 30X80 | RRX | 3.0 | R | ACi,IL | | | | | | |
| FS HiSoy | HS 32X80 | RRX | 3.2 | R | ACi,IL | | | | | | |
| Golden Harvest | GH2981X | RRX | 2.9 | R | CCB,Me | | | | | | |
| Golden Harvest | GH3088X | RRX | 3.0 | MR | CCB,Me | | | | | | |
| Hefty | H28X8 | RRX | 2.8 | MR | DST | | | | | | |
| Hefty | H29X8 | RRX | 2.9 | MR | DST | | | | | | |
| Hefty | H31X9 | RRX | 3.1 | MR | DST | | | | | | |
| Kruger | K2X-2863 | RRX | 2.8 | R | AC,PV,IL | | | | | | |
| Kruger | K2X-2971 | RRX | 2.9 | R | AC,PV,IL | | | | | | |
| Kruger | K2X-3271 | RRX | 3.2 | R | AC,PV,IL | | | | | | |
| Latham | E2895R2X | RRX | 2.8 | R | SS+ | | | | | | |
| Latham | L2887R2X | RRX | 2.8 | R | SS+ | | | | | | |
| Latham | L2982GT27 | G27 | 2.9 | R | SS+ | | | | | | |
| Latham | L3197R2X | RRX | 3.1 | R | SS+ | | | | | | |
| 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 | C3026RX | RRX | 3.0 | R | ASfi,IL | | | | | | |
| LG Seeds | LGS3140RX | RRX | 3.1 | R | ASfi,IL | | | | | | |
| LG Seeds | LGS3297RX | RRX | 3.2 | R | ASfi,IL | | | | | | |
| NK Brand | S30-M9X | RRX | 3.0 | MR | CCB,Me | | | | | | |
| NK Brand | S31-Y2X | RRX | 3.1 | R | CCB,Me | | | | | | |
| Pfister | 32R201 § | RR2Y | 3.2 | R | CCB | | | | | | |
| Pioneer | P25A27X CK | RRX | 2.5 | R | EE,G,IL,Lu | | | | | | |
| Pioneer | P28T71X § | RRX | 2.8 | R | EE,G | | | | | | |
| Pioneer | P29A25X § | RRX | 2.9 | R | EE,G,IL,Lu | | | | | | |
| Pioneer | P31A22X § | RRX | 3.1 | R | EE,G | | | | | | |
| Pioneer | P33A53X § | RRX | 3.3 | R | EE,G | | | | | | |
| Renk | RS288NX | RRX | 2.8 | R | EcTC | | | | | | |
| Renk | RS309NSX | RRX,ST | 3.0 | R | EcTC | | | | | | |
| Renk | RS328NX | RRX | 3.2 | R | EcTC | | | | | | |
| Titan Pro | TP 28X47 | RRX | 2.8 | MR | IL,PV | | | | | | |
| Titan Pro | TP 32X58 | RRX | 3.2 | 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.