With another growing season around the corner, we’d like to sincerely thank you for your interest in Golden Harvest®.

We know seed choice is one of the most important decisions you make every season. Which is why, year after year, we continue to expand our agronomic knowledge and genetic diversity. And it’s also why we offer the personalized service of independent Golden Harvest Seed Advisors, who help ensure you get the most out of your investment by working side-by-side with you, all season long.

This year, we’re proud and excited to offer you a brand-new line of corn hybrids and soybean varieties. It’s the most genetic depth we’ve ever had to offer. Depth that we protect with the latest seed treatments and traits. Including Agrisure Duracade®, a trait designed not only to control pests, but also to help you manage resistance. And our soybean trait technology features several industry-leading herbicide-tolerant trait choices.

And because we’re committed to helping you unlock the potential of every acre, we’re also proud to offer Enogen® Feed. This unique corn hybrid is designed to improve the efficiency of your dairy ration or feedlot, helping you maximize profit potential.

We’d like to thank you again for considering Golden Harvest. We believe strongly in our extensive 2020 product line, and we’d be honored to have Golden Harvest planted in your fields. By choosing Golden Harvest, know we’ll do everything we can to help you have a successful growing season.

—Dawn Dietz
Golden Harvest Marketing Manager
YOU WERE BORN A FARMER. IT’S YOUR CALLING. AND IT REQUIRES MORE GRIT AND DETERMINATION THAN EVER BEFORE.

That’s why we’re digging even deeper to develop the best local products based on your needs. The right genetics with best-in-class traits is only one part of the equation. Correct placement and helping you manage it is the other part.

With over 1,600 corn and nearly 900 soybean local field trials and almost 200,000 head-to-head comparisons, we know what works best in your area.

UNIQUE GENETICS: To help you hit your numbers during harvest, we’re continually investing to bring you more local products and to improve product performance. Working with your local Golden Harvest Seed Advisor, our agronomists and R&D teams understand the issues you face, because we know what works in Illinois doesn’t always work in Nebraska. Our corn and soybean lineup is bred for your local conditions with:

• Proprietary germplasm and elite genetics
• Industry-leading Agrisure® traits to help you achieve top corn yields
• Corn genetics bred with strong agronomics—7 out of every 10 hybrids offer excellent drought tolerance
• Proven corn performance with 59 Top 3 finishers and 192 Top 10 finishers in 2018 FIRST Trials
• The industry’s highest potential soybean yields
• More choice with a broad range of trait packages, including new Enlist E3™ for superior weed control

AGRONOMIC EXPERTISE: More than 15 years of environmental and trial data are built into our exclusive E-Luminate® digital agronomy platform. Combining our agronomy team’s expertise with this powerhouse of data enables your local Golden Harvest Seed Advisor to more precisely select and place the best products to maximize profit potential.

PERSONAL SERVICE: Your Golden Harvest Seed Advisor cares deeply about your success. They know you, your farm and your fields. They’re with you throughout the season—day or night. By combining our unique genetics and agronomic expertise with their depth of knowledge and personal service, you have a partner you can count on.

1 Farmers’ Independent Research of Seed Technologies (FIRST). No product recommendation by FIRST is implied. See firstseedtests.com for details.
CORN LOCALLY BRED AND TESTED.

PROVEN CORN PERFORMANCE WITH 59 TOP 3 FINISHERS AND 192 TOP 10 FINISHERS IN 2018 FIRST TRIALS:

To deliver hybrids that perform well in your local conditions, we breed locally and test locally. With over 1,600 local trials you can be sure that we know what works best in your area. Our corn hybrids offer:

• Genetics bred with strong agronomics, with 7 out of every 10 hybrids offering excellent drought tolerance
• Industry-leading Agrisure® traits for top corn yields, including: Agrisure Artesian®, Agrisure Viptera® and Agrisure Duracade®
• Proprietary germplasm and elite genetics combined with our agronomic insights and expertise to enable accurate placement in your fields
• Opportunities to add to your bottom line with Enogen® Corn or Enogen Feed Corn

Our deep knowledge of local conditions with the personal service of your Golden Harvest Seed Advisor helps ensure you get the results you’re counting on.

1 Farmers’ Independent Research of Seed Technologies (FIRST). No product recommendation by FIRST is implied. See firstseedtests.com for details.
SMART. STRONG. RESILIENT. NOW THOSE ARE TRAITS.

WE’RE COMMITTED TO GENETICS. AND ALSO COMMITTED TO PROTECTING THEM WITH INDUSTRY-LEADING AGRISURE TRAITS.

Our Agrisure traits provide the broadest spectrum of insect control in the market. Plus, our market-leading trait stacks are available in a diverse range of high-yielding genetics designed to fit your unique needs. And many are available with a simple, convenient, in-bag E-Z Refuge® seed blend.

Managing resistance is just as important as controlling corn rootworm (CRW). When you use Agrisure Duracade® technology in rotation with other traits, you can help ensure corn rootworm trait technologies will be effective for the long term.

—Control up to 16 key insect pests, including corn rootworm
—Only available in a simple, E-Z Refuge seed blend offering a convenient in-bag refuge
—Agrisure Duracade 5222 E-Z Refuge is the most advanced trait stack on the market, combining the Agrisure Duracade and Agrisure Viptera traits

AgrisureDuracade.com

Trait stacks with the Agrisure Viptera® trait deliver the most comprehensive above-ground insect control.
—Superior control of ear-, stalk- and leaf-feeding insects, resulting in less insect damage, stronger stands, noticeably healthier ears, lower levels of disease and increased yield potential
—Significantly reduces mycotoxins, including aflatoxin, through control of corn earworm, western bean cutworm and other ear-feeding insects
—Agrisure Viptera 3330 E-Z Refuge trait stack offers three modes of action for above-ground insect pests, reducing the need for scouting and costly rescue treatments

AgrisureViptera.com

Agrisure Artesian® technology maximizes yield when it rains and increases yield when it doesn’t.
—The most advanced corn water technology for season-long performance
—A simple, efficient way to help manage the unpredictability of weather
—Artesian™ hybrids contain multiple genes for season-long drought protection and offer a practical option to meet water challenges

AgrisureArtesian.com
### CORN CHARACTERISTICS

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<thead>
<tr>
<th>PRODUCT</th>
<th>TRAIT OFFERS</th>
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<tr>
<td>Golden Harvest Hybrid Series</td>
<td>Above/Below Ground Insect Protection with E-Z Refuge</td>
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<td>Agrisure Viptera</td>
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Flex hybrids adjust to growing conditions by changing ear length or kernel depth. Determinate/Fixed hybrids are less able to adjust ear size. Plant Population is considered more important for a determinate-ear hybrid than for a flex-ear hybrid. Ratings are based on interpretation of data gathered by Syngenta and/or observations across areas of adaptation and may change as additional data is gathered.

Seed products with the LibertyLink® (LL) trait are resistant to the herbicide glufosinate ammonium, an alternative to glyphosate in corn, and combine high-yielding genetics with the powerful, non-selective, postemergent weed control of Liberty® herbicide.
## Maturity Information

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<th>Ear Flex</th>
<th>Cob Color</th>
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## Agronomic Characteristics

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**Rating Scale**

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<th>1 = Best</th>
<th>9 = Worst</th>
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<tbody>
<tr>
<td>1 = Tall</td>
<td>9 = Short</td>
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</table>
**G08D29 Artesian**  
**EXCELLENT STALKS AND ROOTS FOR SEASON-LONG STANDABILITY**
- Maximizes yield when it rains, increases yield when it doesn’t
- Excellent emergence
- Performs well under a wide range of populations

<table>
<thead>
<tr>
<th>Rating</th>
<th>Emergence</th>
<th>Root Strength</th>
<th>Stalk Strength</th>
<th>Staygreen</th>
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**G08D29-5122A E-Z Refuge**  
**G08D29-3120A E-Z Refuge**  

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**G08M20**  
**EXCITING COMBINATION OF HIGH YIELDS AND SOLID AGRONOMICS**
- Solid late-season stalks
- Great test weight and grain quality
- Adapted to most soil types

<table>
<thead>
<tr>
<th>Rating</th>
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<th>Root Strength</th>
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**G08M20-5122 E-Z Refuge**  
**G08M20-3120 E-Z Refuge**  
**E109M2-5122 E-Z Refuge**  

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**G08R52**  
**NEW**  
**EXCELLENT TOLERANCE TO HEAT AND MOISTURE STRESS WITH BROAD ADAPTATION**
- Ear flex allows for population flexibility
- Outstanding roots and stalks for season-long standability
- High-performing hybrid with very strong yield across multiple environments

<table>
<thead>
<tr>
<th>Rating</th>
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**G08R52-3220 E-Z Refuge**  

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**G07B39 Artesian**  
**EXCEPTIONAL DROUGHT TOLERANCE WITH AGRISURE ARTESIAN TECHNOLOGY**
- Maximizes yield when it rains, increases yield when it doesn’t
- Top-end yield potential makes this a good choice for highly managed acres
- Strong emergence and seedling vigor allows for early planting

<table>
<thead>
<tr>
<th>Rating</th>
<th>Emergence</th>
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**G07B39-3111A**  
**E107B3-3011A**  

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**G09A86**  
**RM: 109**  
**TOP-END YIELD WITH SOUND AGRONOMICS**
- Excellent stalks and strong roots for season-long standability
- Outstanding choice for variable soils provides consistent performance
- Strong protection against Gray Leaf Spot to minimize risk

<table>
<thead>
<tr>
<th>Rating</th>
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**G09A86-3330 E-Z Refuge**  
**G09A86-3000GT**  
**G09A86-GT/LL**  

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**G09Y24 Artesian**  
**RM: 109**  
**EXCITING GENETICS WITH AGRISURE ARTESIAN TECHNOLOGY**
- Maximizes yield when it rains, increases yield when it doesn’t
- Population flexibility across all environments
- Top-end yield potential with stability when conditions are tough

<table>
<thead>
<tr>
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**G09Y24-5222A E-Z Refuge**  
**G09Y24-3220A E-Z Refuge**  
**E109Y2-5122A E-Z Refuge**  

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To order, contact your local Seed Advisor or call 1-800-944-7333 or visit GoldenHarvestSeeds.com
**G10L16 Artesian**

*INDUSTRY-LEADING YIELD PERFORMANCE ACROSS ALL ACRES*

- Leading drought tolerance powered by Agrisure Artesian Technology
- Moderate plant structure for rescue management
- Excellent drydown for an early harvest option

**G10S30**

*OUTSTANDING YIELD PERFORMANCE FOR MAXIMUM RETURNS*

- Excels in highly productive management systems
- Moderate plant type with superb stalk strength
- Dependable emergence and seedling vigor make this a good option for early planting

**G10T63**

*OUTSTANDING TEST WEIGHT CHOICE FOR THE CENTRAL AND EASTERN CORN BELT*

- Strong foliar disease package to maximize yield potential
- Excellent drydown and very good grain quality
- Exceptional choice for variable soil types

**G11A33**

*Moderate plant height with consistent yields*

- Solid stalks and roots for season-long standability
- Outstanding staygreen
- Great drydown and consistent test weight

**G11F16 Artesian**

*OUTSTANDING YIELD POTENTIAL WITH AGRISURE ARTESIAN TECHNOLOGY*

- Maximizes yield when it rains; increases yield when it doesn't
- Proven yield across multiple soil types and environments for stable performance
- Excellent root and stalk strength for ease of harvest

**G12J11 Artesian**

*TOP YIELD WITH AGRISURE ARTESIAN TECHNOLOGY FOR CENTRAL AND EASTERN CORN BELT*

- Maximizes yield when it rains; increases yield when it doesn't
- Strong emergence and seedling vigor for early planting
- Proven performance
G12U17
**EXCELLENT STALKS FOR SEASON-LONG STANDABILITY**
- Exceptional performance in poorly drained soils
- Outstanding late-season plant health and intactness
- Excellent drydown for an early harvest option

**Rating**

- Emergence: 9
- Root Strength: 7
- Stalk Strength: 5
- Staygreen: 3
- Drydown: 1

G12U17-5122 E-Z Refugio Elite
G12U17-3120 E-Z Refugio Elite

G12W66
**VERY STRONG AGRONOMIC PACKAGE PROVIDES SUPERB PERFORMANCE**
- Outstanding stalks and strong roots for late-season standability
- Excellent grain quality and test weight
- Consistent performance across all soil types

**Rating**

- Emergence: 9
- Root Strength: 7
- Stalk Strength: 5
- Staygreen: 3
- Drydown: 1

G12W66-5222 E-Z Refugio Elite
G12W66-3122 E-Z Refugio Elite
G12W66-3220 E-Z Refugio Elite
G12W66-3000GT Trials
G12W66-GT Trials
G12W66 (Conv.)

G13H15
**BROADLY ADAPTED HYBRID FOR EXCELLENT PERFORMANCE ACROSS YIELD ENVIRONMENTS**
- Very strong stalks for season-long standability
- Outstanding late-season plant health and intactness
- Strong performance under drought conditions

**Rating**

- Emergence: 9
- Root Strength: 7
- Stalk Strength: 5
- Staygreen: 3
- Drydown: 1

G13H15-5122 E-Z Refugio Elite
G13H15-3120 E-Z Refugio Elite

G13M88
**SOLID AGRONOMICS WITH YIELD PUNCH**
- Moderate plant structure with dependable stalks and roots
- Strong foliar disease package to maximize performance
- Distinguishing kernel depth with drydown

**Rating**

- Emergence: 9
- Root Strength: 7
- Stalk Strength: 5
- Staygreen: 3
- Drydown: 1

G13M88-3110 Elite
E113M8-3122 E-Z Refugio Elite

G13Z50
**EXCELLENT EMERGENCE AND SOLID EARLY VIGOR**
- Good disease tolerance
- Excellent drydown
- Performs well under a wide range of populations

**Rating**

- Emergence: 9
- Root Strength: 7
- Stalk Strength: 5
- Staygreen: 3
- Drydown: 1

G13Z50-5222 E-Z Refugio Elite
G13Z50-3220 E-Z Refugio Elite
E113Z5-5122 E-Z Refugio Elite

G14N11
**EXCELLENT TOP-END YIELD POTENTIAL WITH BROAD ADAPTABILITY**
- Very strong emergence and vigor allow for an early plant option
- Outstanding root strength for season-long standability
- Moderate plant stature for residue management

**Rating**

- Emergence: 9
- Root Strength: 7
- Stalk Strength: 5
- Staygreen: 3
- Drydown: 1

G14N11-5222 E-Z Refugio Elite
**G14R38**

OUTSTANDING YIELD PERFORMANCE WITH AN EXCELLENT AGRONOMIC PACKAGE

- Strong emergence and seedling vigor
- Superb root strength and proven stalk strength
- Excellent choice for continuous corn acres

Rating:

- Emergence: 9
- Root Strength: 7
- Stalk Strength: 5
- Staygreen: 3
- Drydown: 1

![Crop Varieties](G14R38-3122 E-Z Refuge Pred, G14R38-3120 E-Z Refuge Pred, G14R38 GT Pred, G14R38 Pred Conv)

---

**G14V04**

GREAT PERFORMANCE IN STRESS ENVIRONMENTS TO MINIMIZE WEATHER RISKS

- Ear flex provides population flexibility
- Superb seedling vigor for a strong start
- Sound agronomics allow for broad adaptability

Rating:

- Emergence: 9
- Root Strength: 7
- Stalk Strength: 5
- Staygreen: 3
- Drydown: 1

![Crop Varieties](G14V04-3122 E-Z Refuge Pred, G14V04-3120 E-Z Refuge Pred, G14V04 GT Pred)

---

**G15L32**

STRONG AGRONOMICS WITH STABLE YIELD PERFORMANCE

- Population driven for top-end performance
- Very good root and stalk strength for harvest flexibility
- Dependable staygreen to help maximize yield potential

Rating:

- Emergence: 9
- Root Strength: 7
- Stalk Strength: 5
- Staygreen: 3
- Drydown: 1

![Crop Varieties](G15L32-3330 E-Z Refuge Pred, G15L32-3000GT Pred)

---

**G16K01**

BROADLY ADAPTED PRODUCT WITH SUPERIOR YIELD POTENTIAL

- Well adapted to drought-prone soils
- Yields well in high-disease environments, despite average Gray Leaf Spot resistance
- Stable plant and ear height across rolling stress environments

Rating:

- Emergence: 9
- Root Strength: 7
- Stalk Strength: 5
- Staygreen: 3
- Drydown: 1

![Crop Varieties](G16K01-3111 Pred, G16K01 GT Pred, E116K4-3000GT Pred)

---

**G18D87**

BROADLY ADAPTED WITH A COMPLETE AGRONOMIC PACKAGE

- Strong choice for highly productive irrigated and dryland systems
- Tall plant type with good stalks for improved standability
- Great plant health and staygreen promotes late-season intactness

Rating:

- Emergence: 9
- Root Strength: 7
- Stalk Strength: 5
- Staygreen: 3
- Drydown: 1

![Crop Varieties](G18D87-3122 E-Z Refuge Pred, G18D87-3111 Pred, G18D87 GT Pred, E118D8-3000GT Pred)
## CORN AGRONOMIC MANAGEMENT

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>AGRONOMIC MANAGEMENT AND PLACEMENT TRAITS</th>
<th>END-USE TRAITS</th>
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<tbody>
<tr>
<td></td>
<td>Seeding Rate % Adjustment</td>
<td>Adaptation to Soil Types/Yield Environments</td>
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<td>Relative Maturity (RM)</td>
<td>Continuous Corn</td>
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</table>

### Corn Population Response Factors

This annual study aids farmers’ understanding of how yield environment, grain price, seed cost and hybrid population response influence seeding rate recommendations. Information from this study is useful in determining the optimum planting population for each hybrid and field.

### Influence of Yield Environment and Commodity Price on Optimum Seeding Rate

<table>
<thead>
<tr>
<th>YIELD ENVIRONMENT (BU/A)</th>
<th>HIGHER YIELDING SEEDING RATE (SEEDS/A)</th>
<th>OPTIMUM SEEDING RATE (SEEDS/A) BY COMMODITY PRICE ($/BU)</th>
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<td>(SEED COST = $200/80K UNIT)</td>
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<td>$3.00</td>
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<td>29,700 20,900 21,900 22,700 23,400</td>
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</tr>
</tbody>
</table>

To order, contact your local Seed Advisor or call 1-800-944-7333 or visit GoldenHarvestSeeds.com
Rating Scale
1 = Best
9 = Worst
- = Not available

Score Interpretation
★ = Best Choice
☆ = Good Choice
△ = Average to Slightly Below Average
✘ = Not Recommended
- = Not Available

Drought
Agrisure Artesian water-optimized hybrid.

General Interpretation of Hybrid Response to Management/Placement Situations and End-Use Traits
The Agronomy in Action Research program analyzes the agronomic characteristics of Golden Harvest products to aid in placement and usage in real-world farm situations. With Agronomy in Action locations positioned throughout the Corn Belt, the annual research answers the “why,” “how” and “where” questions of best management practices for our products. Uniform testing methodology ensures that research results are a reliable prediction of the response farmers will see in their fields. By conducting this annual research and compiling across multiple years, Golden Harvest provides tremendous insight into specific management tactics for each product—insight farmers can use to maximize the potential for profit on their farms. The Agronomic Management chart lists hybrid performance characteristics collected from results of these studies.

Seeding Rate % Adjustment: After determining the best corn seeding rate for your field (or zones within field) from the chart located at the bottom of the previous page, consider fine tuning seeding rates with hybrid specific response knowledge. The seeding rate adjustment chart highlights different hybrids ability to be planted at seeding rates greater than or less than the normal recommended rate based on the economic response from agronomic trialing. Root and Stalk strength ratings are also provided for additional knowledge of hybrid agronomic fit for planting at increased seeding rates.

Adaptation to Soil Types/Yield Environments: Ratings and soil type classifications are based on interpretation of studies conducted by Syngenta.

Corn-on-Corn: Two key criteria are used to determine corn-on-corn crop rotation hybrid ratings: 1) Corn-on-corn yield retention data, calculated by comparing each hybrid’s yield in a corn-on-corn rotation versus a corn-on-soybean rotation, which was then compared to the average corn-on-corn yield retention of all hybrids tested and 2) Hybrid agronomic characteristics; characteristics include early season vigor, root characteristics and disease tolerance.

High pH Performance: Ratings represent an assessment of stand establishment, chlorosis severity and yield performance.

End-Use Traits: The Corn Hybrid Grain End-Use Ratings provide information that can help farmers who produce corn for livestock, the ethanol industry or other grain end uses where grain quality can be just as important as grain yield. These Corn Hybrid Grain End-Use Ratings are supported by collecting grain samples from internal company trials which are sent to an independent laboratory for protein, oil and starch analysis.

Feed to Gain Response: Feed to gain is the average pounds of feed needed for each pound of animal gain. Lower feed to gain values are more desirable because animals consume less feed to produce the same amount of weight gain, potentially resulting in less feed input cost. The Corn Hybrid Beef Feed to Gain Ratings are provided to help farmers produce the best corn for livestock rations. These Corn Hybrid Beef Feed to Gain Ratings are supported by collecting grain samples from internal company trials which are sent to an independent laboratory to analyze for kernel density/hardness (grams/cubic centimeter) and kernel weight per 1000 kernels. Individual hybrid ratings illustrate which hybrids provide the best feed to gain response.
# CORN SILAGE HYBRID SELECTION

Silage quality and yield scores are based on actual tonnage—the silage analysis values were compared to hybrids of similar maturity.

## PRODUCT

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>AGRONOMIC CHARACTERISTICS</th>
<th>DISEASE TOLERANCE</th>
<th>AGRONOMIC RESEARCH RATINGS</th>
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<tr>
<td>Golden Harvest Hybrid Series</td>
<td>Relative Maturity (RM)</td>
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</tbody>
</table>

### Ratings Scale
- **1** = Best
- **9** = Worst
- **-** = Not available

### Plant Height
- **1** = Tall
- **9** = Short

### Ear Height
- **1** = High
- **9** = Low

### Ratings Key
- **★** = Best Choice
- **★** = Good Choice
- **☆** = Average to Slightly Below Average
- **☆** = Not Recommended
- **☆** = Not Available

### Drought:
- Agrisure Artisan water-optimized hybrid.

### Using This Chart
- **Yield**: Calculated on a per-acre basis and adjusted to standard moisture.
- **Crude Protein (CP)**: Indicates the percent content of feed component relative to other hybrids.
- **Neutral Detergent Fiber (NDF)**: Measure of the indigestible and slowly digestible components of the silage.
- **Neutral Detergent Fiber Digestibility 48 Hour (NDFD 48 hr)**: Estimates the ruminant digestibility of the NDF fraction.
- **Starch**: Indicates the percent content of feed component.

### Total Digestible Nutrients (TDN): Sum of the digestibility of different nutrients.

### Net Energy Lactation (NEL): Feed effect on net energy for lactating cows based on acid detergent fiber (ADF).

### Milk/Ton: An estimate of forage quality driven by starch content, starch digestibility and NDF. Milk/A combines the estimate of forage quality (Milk/Ton) and yield (Tons/A) into a single term.

### Beef/Ton: A proprietary estimate of forage quality driven by TDN; Beef/A combines the estimate of forage quality (Beef/Ton) and yield (Tons/A) into a single term.

### **NOTE:** These ratings should be used to estimate production per animal, but instead they should be used to determine relative overall silage quality and yield of each hybrid.

CORN WITH MORE ENERGY.

Our advanced genetics help you make the most of every acre. And that includes Enogen. Featuring a unique corn enzyme technology, Enogen is the first biotech corn output trait designed for ethanol production. It’s designed to help ethanol plant profitability by increasing potential throughput and reducing natural gas, water and electricity use. Available in industry-leading trait packages with high-yielding, proven genetics, Enogen can improve ROI potential on your farm.

OUR ADVANCED GENETICS GET RESULTS IN THE FIELD. AND IMPROVE EFFICIENCY IN YOUR FEEDLOT OR DAIRY OPERATION.

With proven genetics and traits and excellent yields across a variety of soil types and conditions, Enogen Feed hybrids can unlock the profit potential of your feedlot operation.

When fed as grain or silage, Enogen Feed hybrids increase starch availability and digestibility, total digestible nutrients, feed efficiency and silage quality. In fact, it has been shown to provide an increase in feed efficiency by an average of 5 percent in beef cattle production. And when Enogen Feed corn silage is incorporated into a dairy ration, predictive modeling software has indicated a potential 3–5 percent gain in potential income over feed cost.

Incorporating Enogen Feed hybrids into your feedlot operation is as easy as replacing the corn you grow and feed on-farm.

1 University of Nebraska Lincoln research study, 2016.
2 Syngenta contract research, 2016.
## ENOGEN HYBRID CHARACTERISTICS

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>TRAIT OFFERS*</th>
<th>MATURITY INFORMATION</th>
<th>AGRONOMIC CHARACTERISTICS</th>
<th>PLANT CHARACTERISTICS</th>
<th>DISEASE TOLERANCE</th>
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<tbody>
<tr>
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<td>Relative Maturity (RM)</td>
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**Rating Scale**
- 1 = Best
- 9 = Worst
- - = Not available

**Test Weight**
- 1 = Tall
- 2 = High
- 9 = Low

**Plant Height**
- 1 = Tall
- 2 = High
- 9 = Low

**Root Type**
- P = Penetrating
- M = Modified
- F = Fibrous

**Leaf Type**
- U = Upright
- S-U = Semi-Upright
- P = Pendulum

**Ear Flex**
- F = Flex
- SF = Semi-Flex
- SD = Semi-Determinate
- D = Determinate

**Husk Cover**
- S = Short
- U = Upright
- M = Medium
- L = Long

**Cob Color**
- R = Red
- P = Pink
- W = White

**Disease Tolerance**
- 1 = High
- 9 = Low
- - = Not available

*Herbicide Tolerance for Agrisure Traits in Enogen Hybrids*

Examples of Enogen hybrid-specific trait herbicide tolerance:
- 3000GT-EVT3/3011A-EVT3: Can only be sprayed with glyphosate; cannot be sprayed with glufosinate.
- 3000GT-EVT5.1: Can be sprayed with glyphosate and glufosinate.
- All Enogen 5122/5122A: Can only be sprayed with glyphosate; cannot be sprayed with glufosinate.

Important: Always read and follow label and bag tag instructions; only those labeled as tolerant to glufosinate may be sprayed with glufosinate ammonium-based herbicides.

Seed products with the LibertyLink (LL) trait are resistant to the herbicide glufosinate ammonium, an alternative to glyphosate in corn, and combine high-yielding genetics with the powerful, non-selective, postemergent weed control of Liberty herbicide.

---

To order, contact your local Seed Advisor or call 1-800-944-7333 or visit GoldenHarvestSeeds.com
**E111B8**

**WIDELY ADAPTED WITH CONSISTENT PERFORMANCE OVER MANY ENVIRONMENTS**

- Exceptional standability provides flexible harvest schedule
- Superb drought tolerance and ear flex support high yields
- Yields well in Gray Leaf Spot environments, despite below average disease resistance rating

**Enogen Corn**

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<tr>
<th></th>
<th>Rating</th>
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E111B8-5122 E-Z Refuge<br />
E111B8-3000GT<br />

**E112J1**

**Artesian**

**TOP YIELD WITH AGRISURE ARTESIAN TECHNOLOGY FOR CENTRAL AND EASTERN CORN BELT**

- Maximizes yield when it rains; increases yield when it doesn’t
- Strong emergence and seedling vigor for early planting
- Proven performance

<table>
<thead>
<tr>
<th></th>
<th>Rating</th>
<th>9</th>
<th>7</th>
<th>5</th>
<th>3</th>
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</tbody>
</table>

Season Long Drought Protection

E112J1-3011A<br />

**E113M8**

**SOLID AGRONOMICS WITH YIELD PUNCH**

- Moderate plant structure with dependable stalks and roots
- Strong foliar disease package to maximize performance
- Distinguishing kernel depth with drydown

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<tr>
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</table>

E113M8-5122 E-Z Refuge<br />

**E113Z5**

**NEW**

**EXCELLENT EMERGENCE AND SOLID EARLY VIGOR**

- Good disease tolerance
- Excellent drydown
- Performs well under a wide range of populations

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<th></th>
<th>Rating</th>
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E113Z5-5122 E-Z Refuge<br />

**E116K4**

**BROADLY ADAPTED PRODUCT WITH SUPERIOR YIELD POTENTIAL**

- Well adapted to drought-prone soils
- Yields well in high-disease environments, despite average Gray Leaf Spot resistance
- Stable plant and ear height across rolling stress environments

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</table>

E116K4-3000GT<br />

**E118D8**

**BROADLY ADAPTED WITH A COMPLETE AGRONOMIC PACKAGE**

- Strong choice for highly productive irrigated and dryland systems
- Tall plant type with good stalks for improved standability
- Great plant health and staygreen promotes late-season intactness

<table>
<thead>
<tr>
<th></th>
<th>Rating</th>
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<th>7</th>
<th>5</th>
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E118D8-3000GT<br />

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GoldenHarvest®

Rooted in genetics, agronomy & service™ | 15
ENOGEN HYBRID AGRONOMIC MANAGEMENT

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>AGRONOMIC MANAGEMENT AND PLACEMENT_TRAITS</th>
<th>END-USE_TRAITS</th>
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<tr>
<td></td>
<td>Seeding Rate % Adjustment</td>
<td>Adaptation to Soil Types/Yield Environments</td>
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<td>Enogen Hybrid Series</td>
<td>Relative Maturity (RM)</td>
<td>Root Strength</td>
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<td>E111A3</td>
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<td>E113M8</td>
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<tr>
<td>E118D6</td>
<td>118</td>
<td>+ 10%</td>
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Corn Population Response Factors
This annual study aids farmers’ understanding of how yield environment, grain price, seed cost and hybrid population response influence seeding rate recommendations. Information from this study is useful in determining the optimum planting population for each hybrid and field.

Influence of Yield Environment and Commodity Price on Optimum Seeding Rate

YIELD ENVIRONMENT (BU/A) | HIGHEST YIELDING SEEDING RATE (SEEDS/A) | OPTIMUM SEEDING RATE (SEEDS/A) BY COMMODITY PRICE ($/BU) (SEED COST = $200/80K UNIT)
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<tr>
<td>280</td>
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<td>240</td>
<td>40,200</td>
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<td>32,300</td>
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<td>200</td>
<td>40,200</td>
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<td>29,700</td>
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<td>26,400</td>
<td>23,400</td>
<td>20,900</td>
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</tr>
</tbody>
</table>

Rating Scale
1 = Best
9 = Worst
- = Not available

Drought
Agrisure Artesian water-optimized hybrid.

Agronomy ratings are based on statistically analyzed results of studies conducted by Syngenta. Agronomy ratings are relative based on other hybrids within the same maturity group.

General Interpretation of Hybrid Response to Management/Placement Situations and End-Use Traits
Seeding Rate % Adjustment: After determining the best corn seeding rate for your field (or zones within field) from the chart above, consider fine tuning seeding rates with hybrid specific response knowledge. The seeding rate adjustment chart highlights different hybrids ability to be planted at seeding rates greater than or less than the normal recommended rate based on the economic response from agronomic trialing. Root and Stalk strength ratings are also provided for additional knowledge of hybrid agronomic fit for planting at increased seeding rates.

Adaptation to Soil Types/Yield Environments: Ratings and soil type classifications are based on interpretation of studies conducted by Syngenta.

Continuous Corn Agronomic Characteristics: Favorable ratings in this column indicate hybrids containing multiple agronomic phenotypic traits deemed important for fields where corn is being cultivated for consecutive years. Ratings are weighted based on the following individual hybrid characteristics: yield, emergence strength, early vigor, root and stalk strength, staygreen and foliar disease tolerance.

High pH Performance: Ratings represent an assessment of stand establishment, chlorosis severity and yield performance.

End-Use Traits: Ratings indicate end-use suitability based on the level of each grain quality characteristic.
FEED THAT BOOSTS YOUR PROFIT POTENTIAL.
INCREASE THE EFFICIENCY OF YOUR FEEDLOT OR DAIRY OPERATION BY SWITCHING TO ENOGEN® FEED HYBRIDS.
ENOGENFEED.COM

CONTROL MORE INSECTS, ABOVE AND BELOW GROUND.
TALK TO YOUR LOCAL SEED ADVISOR ABOUT DEFENDING YOUR YIELD.
AGRISUREDURACADE.COM

THE LATEST AGRONOMIC INSIGHTS TO HELP MAXIMIZE YIELD POTENTIAL.
Visit GoldenHarvestSeeds.com/Agronomy to get locally focused insights with crop management decisions, and to sign up for your local agronomy newsletter.
SOYBEANS WITH THE HIGHEST YIELD POTENTIAL,

MANAGE THE MOST DIFFICULT WEEDS AND INCREASE YOUR PROFIT POTENTIAL.

Golden Harvest soybeans offer the industry’s highest potential yields with the broadest choice of trait packages. With nearly 900 local trials, you can be sure we know what performs best in your area.

PROVEN PERFORMANCE

- With 41 Top 3 finishers and 131 Top 10 finishers in 2018 FIRST Trials, Golden Harvest soybeans will deliver for you come harvest
- Outperforms the competition with twice as many Top 3 finishers in 2018 FIRST Trials. Golden Harvest (41), Asgrow (21) and Pioneer (19)

MORE TRAIT CHOICES

- Choose from the leading herbicide tolerance traits, including Genuity® Roundup Ready 2 Yield®, Roundup Ready 2 Xtend® and now Enlist E3™ for superior weed control and application flexibility
- Strong defensive agronomics with 60% of our portfolio having an excellent rating or better for Sudden Death Syndrome (SDS)

1 Farmers’ Independent Research of Seed Technologies (FIRST). No product recommendation by FIRST is implied. See firstseedtests.com for details.

To order, contact your local Seed Advisor or call 1-800-944-7333 or visit GoldenHarvestSeeds.com
AND COMMITTED TO THE TRAITS YOU WANT.

ADVANCED GENETICS NEED THE PROTECTION OF BEST-IN-CLASS TRAITS. THAT’S WHAT YOU GET WITH THE LATEST TRAIT TECHNOLOGY FROM GOLDEN HARVEST.

Our focus on farmers drives our continued commitment to research and development, and with a state-of-the-art greenhouse, we’re able to bring more varieties with the best-in-class trait options to market quicker than ever before.

LEADING DISEASE AND PEST TOLERANCE

Golden Harvest varieties feature built-in tolerance to damaging pests and diseases like Soybean Cyst Nematode (SCN), Sudden Death Syndrome (SDS), Iron Deficiency Chlorosis (IDC) and Phytophthora root rot.

INDUSTRY LEADING HERBICIDE-TOLERANT TRAITS

Our portfolio offers you the leading herbicide-tolerant traits, including: Genuity® Roundup Ready 2 Yield®, Roundup Ready 2 Xtend® and Enlist E3™. This gives farmers more access to trait choices, more field-specific solutions and more ways to protect yield potential from the toughest threats.

ROUNDPUP READY 2 XTEND

The industry’s first biotech stacked soybean trait that confers tolerance to glyphosate and dicamba herbicides—two different modes of action that deter resistance in weeds.

ENLIST E3

The first three-gene herbicide tolerant trait stack, Enlist E3 soybeans confer robust tolerance to glyphosate, glufosinate and 2, 4-D herbicides, offering exceptional weed control and resistance management options. And with an advanced molecular construction, the Enlist E3 trait enables efficient breeding, which brings high-quality varieties to market faster.

ALWAYS READ AND FOLLOW PESTICIDE PRODUCT LABELING. It is a violation of federal and state law to use any pesticide product in a manner inconsistent with its labeling.

Only dicamba formulations that employ VaporGrip® Technology are approved for use with Roundup Ready 2 Xtend® soybeans.

Only 2,4-D choline formulations with Colex-D® Technology are approved for use with Enlist E3™ soybeans.

Enlist Duo and Enlist One herbicides are not registered for sale or use in all states or countries. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your area.
## SOYBEAN CHARACTERISTICS

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<th>PRODUCT</th>
<th>AGRONOMIC/PLANT CHARACTERISTICS*</th>
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* NOTE: E3 product descriptions and ratings are sourced from the variety’s genetic supplier and may change as additional data are gathered.

**Herbicide Tolerant Traits**
- GENRR2Y = Genuity® Roundup Ready 2 Yield®
- RR2X = Roundup Ready 2 Xtend®
- RR2X/STS = Roundup Ready 2 Xtend® and STS®
- E3 = ENLIST E3™
- E3/STS = ENLIST E3™ and STS®
- STS = Sulfonylurea Tolerant Soybean

**Canopy/Plant Type**
- T = Thin
- MT = Medium-Thin
- M = Medium
- MB = Medium-Bush
- B = Bush

**Plant Height**
- S = Short
- MS = Medium-Short
- M = Medium
- MT = Medium-Tall
- T = Tall

**Growth Habit**
- IND = Indeterminate
- DET = Determinate

**Plant Color Abbreviations**
- BF = Buff
- BL = Black
- BR = Brown
- GR = Gray
- IMB = Imperfect Black
- IMY = Imperfect Yellow
- LTW = Light Tawny
- PUR = Purple
- TN = Tan
- TW = Tawny
- WH = White
- YEL = Yellow

**Chloride Sensitivity**
- INC = Includer
- EXC = Excluder

**Adaptation to Soil Types/Yield Environments**
- ★ = Best Choice
- ● = Good Choice
- ▼ = Average to Slightly Below Average
- x = Not Recommended
- - = Not Available
## Phytophthora Gene Resistance

The following genes confer resistance to the listed races of Phytophthora:

- **Rps1a** = Resistant to races 1, 2, 10, 11, 13-18, 24, 26, 27, 31, 32, 36, 38
- **Rps1c** = Resistant to races 1-3, 6-11, 13, 15, 17, 21, 23, 24, 26, 28-30, 32, 34, 36, 38, 44
- **Rps1k** = Resistant to races 1-11, 13-15, 17, 18, 21-24, 26, 36-38, 44
- **Rps3a** = Resistant to races 1-5, 8, 9, 11, 13, 14, 16, 18, 23, 25, 28, 29, 31-35, 39, 44, 45

### Soybean Cyst Nematode (SCN)

- **R** = Resistant
- **MR** = Moderately Resistant
- **S** = Susceptible

### Disease/Pest Ratings

- **1** = Best
- **9** = Worst
- **-** = Not available

### Soybean Brands

- **NEW** indicates a new soybean brand.

---

### Phytophthora Field Tolerance

Usually not as complete as race-specific resistance, but it offers general protection. Resistance is not expressed in early stages of plant development. Numerical rating scale of 1-9; 1 = Best.
GOLDEN HARVEST PREFERRED SEED TREATMENT DELIVERS CUSTOMIZED PROTECTION WITH IMPROVED DISEASE CONTROL AND HANDLING PROPERTIES. HELPING ENSURE THAT YOU START STRONG WITH EARLY SEASON VIGOR AND ENHANCED ROOT HEALTH.

CUSTOMIZED SEED TREATMENTS
Golden Harvest Preferred Seed Treatment delivers customized protection with improved disease control and handling properties.
—Contains an enhanced rate of Apron® XL seed treatment fungicide for superior protection of seed- and soil-borne diseases such as pythium and early season Phytophthora
—With unique polymers that bind active ingredients to the seed coat, the seed treatment decreases dust-off and improves seed flow through treating and planting equipment
—Powered by our industry-leading seed treatment portfolio of CruiserMaxx®, Vibrance®, and Clariva® Elite Beans, a combination of separately registered products, to maximize the potential return on your soybean investment

PREFERRED CMV SERIES
WITH CRUISERMAXX VIBRANCE BEANS
Delivers early season, broad-spectrum insect and disease protection from day one:
—Optimizes root health, nutrient uptake, water usage and stress tolerance for better emergence through the unique RootingPower of Vibrance seed treatment fungicide
—Delivers faster speed to canopy and more robust, vigorous plants for improved overall performance through the Cruiser® Vigor Effect

PREFERRED CCB SERIES
WITH CLARIVA ELITE BEANS
Offers the only season-long, lethal activity against Soybean Cyst Nematode (SCN), with added broad spectrum, early season insect and disease protection:
—Delivers a higher stand count and stronger emergence vs. Acceleron® + ILeVO®, with an average yield increase of 2.7 bu/A1, and some fields yielding up to 10 bu/A more
—Combines with Mertect® 340-F fungicide for increased activity against SDS and other SCN-related diseases

Coming soon—a new soybean seed treatment for Sudden Death Syndrome (SDS) and nematodes.
Upon registration with the US EPA, Adepidyn® fungicide will be marketed as Saltro® fungicide. It will offer:
—Based on 3 years of field trial results, consistent yield improvement over a leading SDS competitor under high SDS pressure
—The highest intrinsic activity against Fusarium virguliforme, the causal organism of SDS
—Activity against soybean cyst, root knot, lesion and lance nematodes
—Protection from SDS without signs of early season plant stress, including phytotoxicity, stunting, susceptibility to pests or weather and reduced plant stands

1 Syngenta trials from 52 locations across the Midwest, including preliminary 2015 data
2 Adepidyn/Saltro is not registered for sale or use as a seed treatment in the US and is not being offered for sale.
3 Includes locations that exhibited 20 percent SDS incidence or more as measured by a local scientist Syngenta Seedcare trials, 2015-2017, trial locations: AR, IL, IA, KY, MI, MN, TN, WI (a=0.1).
GH3088X BRAND

STRONG PERFORMER WITH EXCELLENT TOP-END YIELD POTENTIAL

- Great defensive package anchored by outstanding SDS tolerance
- Solid standability in an attractive plant type
- Rps1c gene with above average field tolerance to Phytophthora Root Rot

GH3195X BRAND

NICE COMBINATION OF OFFENSE AND DEFENSE

- Proven across varying soils; gives confidence for your farm
- Flexible across row spacing
- Versatility to take it north or south

GH3319E3 BRAND

NEW

STRONG PERFORMANCE WITH BROAD ADAPTATION

- Great Standability for smooth harvest
- Rps1c gene helps protect yield
- Good tolerance to SDS and Frogeye Leaf Spot

GH3324X BRAND

DEFENSE YOU CAN SEE, EXCELLENT SDS AND FROGEYE LEAF SPOT TOLERANCE

- Delivers yield punch on highly productive acres
- Works in all soil types but favors heavier ground
- Confidently move it north or south

GH3475X BRAND

GREAT CHOICE FOR THE HIGHLY PRODUCTIVE ACRE

- Very strong defensive package
- Dependable standability in a larger plant type
- Broad adaptation north to south

GH3546X BRAND

OFFENSIVE AND DEFENSIVE LEADER

- Great performance across yield levels
- Target fields with a history of Frogeye Leaf Spot or SDS
- Proven performance across varying soil types

Soybeans

Rooted in genetics, agronomy & service™ | 23
GH3582E3 BRAND - NEW  RM: 3.5

VERY STRONG YIELDS ACROSS YEARS

- Excellent season long standability
- Solid Phytophthora Root Rot field tolerance
- Superior resistance to Southern Stem Canker

GH3624E3 BRAND - NEW  RM: 3.6

EXCELLENT YIELDS ACROSS GEOGRAPHIES

- Outstanding Frogeye Leaf Spot tolerance
- Nice combination of offense and defense
- Good choice for tougher acres

GH3728X BRAND - NEW  RM: 3.7

STRONG PERFORMANCE ACROSS ENVIRONMENTS

- Great yields north and south of zone
- Outstanding Phytophthora with proven Frogeye and SDS tolerance
- Very good heat and drought tolerance

GH3759E3S BRAND - NEW  RM: 3.7

NICE COMBINATION OF OFFENSE AND DEFENSE

- Rps1k gene with outstanding Phytophthora Root Rot field tolerance
- Superior emergence for early planting
- Flexible product with STS tolerance

GH3922E3 BRAND - NEW  RM: 3.9

STRONG YIELD AND AGRONOMICS TO PROTECT ALL SEASON

- Excellent SDS tolerance
- Solid tolerance to Frogeye Leaf Spot
- Exceptional Southern Stem Canker tolerance

GH3934X BRAND - NEW  RM: 3.9

PROVEN GENETICS DELIVER OUTSTANDING YIELD POTENTIAL AND SDS TOLERANCE

- Stable performance with top-end yield kick
- Performs well on heavy, poorly drained soils
- Reliable choice for any planting date

To order, contact your local Seed Advisor or call 1-800-944-7333 or visit GoldenHarvestSeeds.com
**GH3982X Brand**

**Broadly Adapted with Top-End Yield Punch**

- Stable performance across soil types
- Strongest on highly productive dryland acres or under irrigation
- Excellent choice to push north

**GH4155E3 Brand**

**Top Performance with Solid Agronomics**

- Broadly adapted across MG 4 acres
- Very good standability with strong Frogeye Leaf Spot tolerance
- Rps3a with proven emergence for early planting

**GH4240XS Brand**

**Consistent Performance on Any Acre**

- Stability with STS herbicide tolerance
- Proven tolerance to SDS and Phytophthora Root Rot
- Adapted to both dryland and irrigated acres

**GH4307X Brand**

**Exceptional Yield Potential with Proven Agronomics**

- Strongest on heavy to medium textured soils
- Excellent performance on both dryland and irrigated acres
- Outstanding Frogeye Leaf Spot tolerance with very good SDS tolerance

**GH4314E3 Brand**

**Great Combination of Offense and Defense**

- Very good emergence and SDS tolerance for early planting
- Excellent Frogeye Leaf Spot tolerance with great standability
- Performs well across all soil types

**GH4438E3 Brand**

**Top-End Yield with a Dependable Disease Package**

- Good standability with the Rps1k gene
- Excellent tolerance to Southern Stem Canker
- Best when placed in zone and north
**SOYBEANS**

**GH4531XS**

**NEW**

**RM:** 4.5

**DEPENDABLE YIELDS WITH THE STS HERBICIDE OPTION**

- Consistent performance across all environments
- Excellent choice for double-crop acres
- Moves south of zone very well

**RATING**

- Emergence: 9
- Stalk Study: 7
- Phytophthora Field Tolerance: 5
- Sudden Death Syndrome: 3
- Frogeye Leaf Spot: 5
- Southern Stem Canker: 1

**GH4612E3S**

**NEW**

**RM:** 4.6

**PROVEN YIELDS WITH STS AND CHLORIDE EXCLUDER**

- Sturdy plant type that handles stress
- Excellent choice for clay soils
- Excellent Southern Stem Canker tolerance

**RATING**

- Emergence: 9
- Stalk Study: 7
- Phytophthora Field Tolerance: 5
- Sudden Death Syndrome: 3
- Frogeye Leaf Spot: 5
- Southern Stem Canker: 1

**GH4628X**

**NEW**

**RM:** 4.6

**SUPERIOR PERFORMANCE MAXIMIZES PROFIT POTENTIAL ACROSS ACRES**

- Outperforms at any productivity level
- Excellent Frogeye Leaf Spot tolerance with Rps1k
- Plant type supports all row widths

**RATING**

- Emergence: 9
- Stalk Study: 7
- Phytophthora Field Tolerance: 5
- Sudden Death Syndrome: 3
- Frogeye Leaf Spot: 5
- Southern Stem Canker: 1

**GH4741X**

**NEW**

**RM:** 4.7

**EXCLUDER PRODUCT WITH OUTSTANDING YIELD POTENTIAL**

- Rps1k for genetic resistance to Phytophthora Root Rot
- Dependable tolerance to SDS and Frogeye Leaf Spot
- Excellent ROI Potential on irrigated acres

**RATING**

- Emergence: 9
- Stalk Study: 7
- Phytophthora Field Tolerance: 5
- Sudden Death Syndrome: 3
- Frogeye Leaf Spot: 5
- Southern Stem Canker: 1

**GH4768E3**

**NEW**

**RM:** 4.7

**BIG YIELDS WITH BROAD ADAPTABILITY**

- Stable performance across the entire MG 4 growing area
- Exceptional Southern Stem Canker tolerance
- Performs on any soil type

**RATING**

- Emergence: 9
- Stalk Study: 7
- Phytophthora Field Tolerance: *Not Available
- Sudden Death Syndrome: *Not Available
- Frogeye Leaf Spot: 5
- Southern Stem Canker: 1

**GH4823XS**

**NEW**

**RM:** 4.8

**EXCITING YIELD POTENTIAL WITH STS HERBICIDE TOLERANCE AND THE EXCLUDER GENE**

- Excellent tolerance to Frogeye Leaf Spot
- Rps1c with great field tolerance to Phytophthora Root Rot
- Well suited for first crop and double crop planting

**RATING**

- Emergence: 9
- Stalk Study: 7
- Phytophthora Field Tolerance: *Not Available
- Sudden Death Syndrome: *Not Available
- Frogeye Leaf Spot: 5
- Southern Stem Canker: 1
MORE YIELD POTENTIAL.
MORE TRAIT CHOICES.
INCLUDING ENLIST E3™

High-yielding Golden Harvest® soybeans are now available with the superior weed control of new Enlist E3 soybeans.

TALK TO YOUR LOCAL SEED ADVISOR TO LEARN MORE ABOUT OFFERINGS IN YOUR AREA.
GOLDENHARVESTSEEDS.COM

Notes
To convey the characteristics and advantages of the various high performing Agrisure trait stacks, our straightforward naming system indicates the technologies present in each.

### Above- and Below-Ground Insect Protection

<table>
<thead>
<tr>
<th>Agrisure Duracade®</th>
<th>5% Single Bag Integrated Refuge*</th>
<th>5 2 2 2 A</th>
<th>E-Z Refuge®</th>
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<tr>
<td></td>
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<td></td>
<td>Agrisure Duracade + Agrisure® RW—corn rootworm control</td>
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<td>Agrisure CB/LL + Herculex® 1—corn borer control</td>
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<td>Agrisure Viptera® + Herculex 1—broad lepidopteran control</td>
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<td>Agrisure Duracade series plus glyphosate and glufosinate tolerance**</td>
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Any hybrid with an "A" after the trait nomenclature indicates that it features Agrisure Artesian® technology. Agrisure Artesian technology is featured in many trait stacks.

<table>
<thead>
<tr>
<th>Agrisure Duracade</th>
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* Corn Belt only.
** Important: Always read and follow label and bag tag instructions; only those labeled as tolerant to glufosinate may be sprayed with glufosinate ammonium-based herbicides.

Note: The naming system does not apply to Agrisure 3000GT.

Golden Harvest corn offers multiple integrated, single-bag refuge options. A number of Agrisure, Agrisure Viptera and Agrisure Duracade trait stacks are available as E-Z Refuge products, offering multiple modes of action on key pests along with farmer convenience and stewardship compliance.
**GOLDEN HARVEST CORN**

This two-digit number is the same as the last two digits of relative maturity. The next letter and two-digit number are designated to uniquely identify each genetic family.

Hybrid Series: All hybrids within this series were developed from the same base genetics.

 Trait versions available in this hybrid series.

**INDUSTRY-LEADING YIELD PERFORMANCE ACROSS ALL ACRES**

- Leading drought tolerance powered by Agrisure Artesian Technology
- Moderate plant structure for residue management
- Excellent drydown for an early harvest option

**G10L16 Artesian**

RM: 110

**NEW**

Agrisure Artesian

"A" indicates the presence of Agrisure Artesian technology for water optimization in the hybrid.

E-Z Refuge: Products include integrated in-bag 5% refuge.

The dash separates the genetic and trait portions.

The trait designator aligns with the Agrisure traits nomenclature system.

NEW: Indicates hybrid series or hybrid trait versions new for 2020.

**ENOGEN CORN**

Hybrid Series: All hybrids within this series were developed from the same base genetics.

Trait versions available in this hybrid series.

**E109Y2 Artesian**

RM: 109

Agrisure Artesian

"A" indicates the presence of Agrisure Artesian technology for water optimization in the hybrid.

E-Z Refuge: Products include integrated in-bag 5% refuge.

The dash separates the genetic and trait portions.

The trait designator aligns with the Agrisure traits nomenclature system.

NEW: Indicates hybrid series or hybrid trait versions new for 2020.

**GOLDEN HARVEST SOYBEANS**

Soybean Brand

Ratings are based on field observations collected by Syngenta from multiple locations over multiple years. They represent comparisons with company products only.

**GH3934X BRAND**

RM: 3.9

Herbicide tolerance and other traits
PROTECT AND PRESERVE.

A STRONG STEWARDSHIP PROGRAM IS ESSENTIAL FOR PROTECTING AND PRESERVING THE LONG-TERM VALUE OF INSECT-PROTECTED TRAIT TECHNOLOGY.

Golden Harvest provides responsible agriculture programs and information regarding the safe handling and storage of product.

STEWARDSHIP REQUIREMENTS
Read and understand the stewardship requirements found in the Syngenta Stewardship Guide, including applicable refuge requirements when planting insect-protected traits as set forth in the Syngenta Seeds, LLC Stewardship Agreement that you sign. To sign an agreement or view recommended planting configurations, please visit SyngentaStewardship.com or contact the Stewardship team: 1-877-476-2676. By opening and using a bag of seed, you are reaffirming your obligation to comply with those stewardship requirements.

BEST MANAGEMENT PRACTICES
The agricultural industry has learned that, in addition to planting a refuge, a sound Integrated Pest Management (IPM) strategy is needed to prevent Corn Rootworm (CRW) resistance. For more information on how you can implement Best Management Practices (BMPs) on your farm, including crop and trait rotation, refer to the industry CRW BMPs found on the NCGA website at NCGA.com/CornRootworm or SyngentaStewardship.com

CORN REFUGE REQUIREMENTS
It is important to recognize that different hybrid/trait packages may have different Insect Resistance Management (IRM) requirements. On-farm mixing of any seed is not an approved method to comply with stewardship requirements.

<table>
<thead>
<tr>
<th>TRAIT STACK*</th>
<th>MINIMUM REFUGE REQUIREMENT CORN-GROWING REGION</th>
<th>MINIMUM REFUGE REQUIREMENT COTTON-GROWING REGION</th>
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<tbody>
<tr>
<td>Agrisure3000GT</td>
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<td>50%</td>
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<tr>
<td>Agrisure3010</td>
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</tr>
<tr>
<td>AgrisureArtesian™</td>
<td>20%</td>
<td>50%</td>
</tr>
<tr>
<td>AgrisureViptera™</td>
<td>20%</td>
<td>50%</td>
</tr>
<tr>
<td>Agrisure3120</td>
<td>E-Z Refuge—no additional refuge required</td>
<td>20% supplemental refuge</td>
</tr>
<tr>
<td>Agrisure3122</td>
<td>E-Z Refuge—no additional refuge required</td>
<td>20% supplemental refuge</td>
</tr>
<tr>
<td>AgrisureDuracade®</td>
<td>E-Z Refuge—no additional refuge required</td>
<td>20% supplemental refuge</td>
</tr>
<tr>
<td>AgrisureDuracade®</td>
<td>E-Z Refuge—no additional refuge required</td>
<td>20% supplemental refuge</td>
</tr>
</tbody>
</table>

Refuge size is calculated by applying the appropriate percentage (e.g., 20%, 50%) to the TOTAL CORN ACRES. Calculator available to help farmers plan how to meet the minimum refuge requirements for each Bt corn product on their farm. Download at www.irmcalculator.com

* These products may be offered as Agrisure Artesian® corn hybrids, which convert water to grain more efficiently. Artesian® corn hybrids are designated by an ‘A’ at the end of the trait stack name.

The Agrisure® 3010 trait stack was previously sold as Agrisure® GT/CB/LL.

Important: Always read and follow label and bag tag instructions; only those labeled as tolerant to glufosinate may be sprayed with glufosinate ammonium-based herbicides.

Syngenta hereby disclaims any liability to Third Party websites referenced herein.

GRAIN MARKETING
Farmers are encouraged to consult the Bio Trade Status website for the approval status of commercially available hybrids: BioTradeStatus.com. Talk to your grain handler prior to delivering crop so that it can be handled and marketed appropriately. Please contact your local seed representative with any questions.

Agrisure Duracade farmers needing grain marketing assistance may contact Gavilon Grain, LLC at 844-559-1500 to identify an accepting location near you or visit syngenta-us.com/agrisure/duracade-stewardship.aspx for more information.
# CORN CROP PLANNING

<table>
<thead>
<tr>
<th>Field Name:</th>
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<tr>
<td>Population:</td>
<td>Population:</td>
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<tr>
<td>Management Considerations:</td>
<td>Management Considerations:</td>
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# SOYBEAN CROP PLANNING

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<tbody>
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<td>Population:</td>
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<tr>
<td>Management Considerations:</td>
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CORN CROP PLANNING

Field Name: ____________________________
Hybrid: ________________________________
Population: ____________________________
Management Considerations: ____________

Field Name: ____________________________
Hybrid: ________________________________
Population: ____________________________
Management Considerations: ____________

SOYBEAN CROP PLANNING

Field Name: ____________________________
Variety: ________________________________
Population: ____________________________
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Field Name: ____________________________
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Population: ____________________________
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Product performance assumes disease presence.

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Golden Harvest and Rooted in genetics, agronomy and service are trademarks of a Syngenta Group Company.

Some seed treatment offers are separately registered products applied to the seed as a combined slurry. Always read individual product labels and treat instructions before combining and applying component products. CruiserMaxx Vibrance Beans is an on-seed application of CruiserMaxx Vibrance alone or with Apron XL. Saltro is currently not registered for sale or use in the U.S. and is not being offered for sale. Adaptoxy is not currently registered as a seed treatment in the U.S. and is not being offered for sale.

LibertyLink®, Liberty®, and the Water Droplet logos are registered trademarks of BASF. HERCULEX® and the HERCULEX Shield are trademarks of Dow AgriSciences, LLC. HERCULEX Insect Protection technology by Dow AgriSciences. YieldGard V7 Pro™ is a trademark of Monsanto Technology LLC.

Under federal and local laws, only dicamba-containing herbicides registered for use on dicamba-tolerant varieties may be applied. See product labels for details and tank mix partners. Golden Harvest® Soybean varieties are protected under granted or pending U.S. variety patents and other intellectual property rights, regardless of the trait(s) within the seed. The LibertyLink® Roundup Ready 2 Yield® and Roundup Ready 2 Xtend® traits may be protected under numerous United States patents. It is unlawful to save soybeans containing these traits for planting or transfer to others for use as a planting seed. Roundup Ready 2 Yield®, Roundup Ready 2 Xtend®, Genuity® and Design and Genuity Icons are trademarks used under license from Monsanto Technology LLC. ENLIST E3™ soybean technology is jointly developed with Dow AgriSciences LLC and MS Technologies LLC. ENLIST E3 is a trademark of Dow AgriSciences LLC. The trademarks or service marks displayed or otherwise used herein are the property of a Syngenta Group Company. All other trademarks are the property of their respective owners.

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