2021 SEED GUIDE

SOUTH & EASTERN NEBRASKA
Golden Harvest is driven to deliver the ultimate service experience on your farm, all year round. We’ll be there to offer insights on your field conditions, listen to your needs and tailor recommendations to meet them exactly. Not just throughout the growing season, but long before planting and way beyond harvest.

Count on us to be relentless about adding value at every stage of your crop’s development, from planting to monitoring performance to evaluating results and planning for the following year.
Golden Harvest is dedicated to developing quality products that meet specific farmer needs. Your Seed Advisor will recommend products that combine locally developed genetics with the traits you need, placed to deliver in your real field conditions. All backed by a year-round service experience that yields results.

**UNIQUE GENETICS**
To help you hit your harvest numbers, Golden Harvest is continually investing in optimizing product performance and bringing you a range of local choices. Our agronomists and R&D teams work closely with your local Seed Advisor to understand the issues you face and help address them with a locally bred and tested corn and soybean lineup that combines elite genetics with the most choice in industry-leading traits. But the real proof is in the field, where our corn and soybean products yielded 55 Top 3 Finishers and 185 Top 10 Finishers in 2019 FIRST Trials.

**AGRONOMIC EXPERTISE**
Seed Advisors tap into our agronomy team’s expertise and leverage the wealth of data in our proprietary E-Luminate® digital platform to more precisely place products for maximum performance in your fields.

**TIRELESS SERVICE**
Count on your Golden Harvest® Seed Advisor for insights and local expertise that will help you make the right decisions for your crop throughout the current season and help plan for the next. Because it’s not just service; it’s a commitment to truly understanding you and your fields.
LOCALLY PROVEN CORN WITH INDUSTRY-LEADING GENETICS

To create hybrids that deliver in your individual conditions, Golden Harvest breeds and tests our products locally. Over 1,600 local trials ensure that we know what works in your area. Our corn hybrids offer:

- Proprietary germplasm with elite genetics that are proven to perform locally
- Strong agronomics, yield potential and standability
- Premium above- and below-ground insect control with Agrisure Duracade® and Agrisure Viptera® traits
- Opportunities to add to your bottom line with Enogen® Corn or Enogen Feed Corn
- The backing of a team of whose agronomic expertise delivers optimal product placement with performance-optimizing insights throughout the season

FEATURING 32 TOP 3 FINISHERS AND 112 TOP 10 FINISHERS IN 2019 FIRST TRIALS.¹

¹Farmers’ 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
PROTECT YOUR CORN’S GENETIC YIELD POTENTIAL.

AGRISURE® TRAITS OFFER THE INDUSTRY’S BROADEST CHOICE OF CUTTING-EDGE TRAIT TECHNOLOGY.

- Features a unique mode of action for strong control of corn rootworm
- Protects root systems for better nutrient and water uptake, helps ensure fuller leaves for increased photosynthesis and maximum grain fill, and results in strong plants that stand all season long
- Provides a new trait rotational option for a healthier crop
- Stacked option with Agrisure Viptera® trait controls 16 damaging above- and below-ground pests, more than any competitive stack
- Delivers a 4.1 bu/A yield advantage over products without Agrisure Duracade*

- The industry’s most comprehensive, best performing, most complete above-ground insect control
- The only trait that effectively controls western bean cutworm
- Reduces risk of mold and mycotoxin development through control of ear-feeding insects
- Delivers a 7.3 bu/A yield advantage under ear-feeding insect pressure**

- Maximizes yield when it rains and increases yield when it doesn’t
- Offers multiple genes for season-long drought protection
- Optimizes plant health through elite genetics that allow plants to manage gaps in rainfall season-long and yield exceptionally well in good conditions
- Delivers nearly 12% higher yields compared to other hybrids in severe and extreme drought

---

*Data based on 2018 Syngenta trials
**Study results from Syngenta field trials in 33 locations
1 Source info: Data is based on 7,613 Syngenta on-farm strip trials across the Corn Belt 2010-2014. Syngenta defines a yield environment of 50-99 bu/A as severe and fewer than 50 bu/A as extreme
## CORN CHARACTERISTICS

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>TRAIT OFFERS</th>
<th>PRODUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Golden Harvest Hybrid Series</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Above/Below Ground Insect Protection with E-Z Refuge</td>
<td>Above Ground Insect Protection with E-Z Refuge</td>
</tr>
<tr>
<td>G03C84</td>
<td>5122</td>
<td>3120</td>
</tr>
<tr>
<td>G03R40</td>
<td>5222</td>
<td>3120</td>
</tr>
<tr>
<td>G04G36 NEW</td>
<td>5122A</td>
<td>3111A</td>
</tr>
<tr>
<td>G05K08</td>
<td>5122A</td>
<td>3111</td>
</tr>
<tr>
<td>G07F23</td>
<td>5222</td>
<td>3111</td>
</tr>
<tr>
<td>G08D29</td>
<td>5122A</td>
<td>3111</td>
</tr>
<tr>
<td>G09Y24</td>
<td>5222A</td>
<td>3220A</td>
</tr>
<tr>
<td>G10K03</td>
<td>5122A</td>
<td>3220</td>
</tr>
<tr>
<td>G10L16</td>
<td>5222A</td>
<td>3330A</td>
</tr>
<tr>
<td>G11A33</td>
<td>5122A</td>
<td>3220</td>
</tr>
<tr>
<td>G11B63</td>
<td>5122A</td>
<td>3120A</td>
</tr>
<tr>
<td>G11F16</td>
<td>5122A</td>
<td>3111A</td>
</tr>
<tr>
<td>G12Z76 NEW</td>
<td>5122A</td>
<td>3120A</td>
</tr>
<tr>
<td>G12Z75 NEW</td>
<td>5122A</td>
<td>3120A</td>
</tr>
<tr>
<td>G12Z75 NEW</td>
<td>5122A</td>
<td>3120A</td>
</tr>
<tr>
<td>G13H15</td>
<td>5122A</td>
<td>3120A</td>
</tr>
<tr>
<td>G13J18</td>
<td>5122A</td>
<td>3120A</td>
</tr>
<tr>
<td>G14R38</td>
<td>5122A</td>
<td>3120A</td>
</tr>
<tr>
<td>G14V04</td>
<td>5122A</td>
<td>3120</td>
</tr>
<tr>
<td>G15L52 NEW</td>
<td>5122A</td>
<td>3220A</td>
</tr>
<tr>
<td>G16L80</td>
<td>5122A</td>
<td>3330A</td>
</tr>
</tbody>
</table>

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 for optimum yield and excellent weed control. LibertyLink®, Liberty® and the Water Droplet logo are registered trademarks of BASF Corporation.
### MATURITY INFORMATION

<table>
<thead>
<tr>
<th>Relative Maturity (RM)</th>
<th>GDUs to Silk</th>
<th>GDUs to Black Layer</th>
</tr>
</thead>
<tbody>
<tr>
<td>103 1355 2475</td>
<td>4 4 3 4 3 4 4 5 3 4 5</td>
<td>3 3 M S-U SF M R</td>
</tr>
<tr>
<td>103 1335 2445</td>
<td>2 3 2 2 3 2 3 4 2 -</td>
<td>4 4 M U SD M R</td>
</tr>
<tr>
<td>104 1320 2550</td>
<td>4 2 2 3 1 3 5 3 4 -</td>
<td>5 6 M S-U SF L R</td>
</tr>
<tr>
<td>105 1310 2555</td>
<td>3 4 4 3 1 3 6 3 4 -</td>
<td>5 6 P U SD M R</td>
</tr>
<tr>
<td>107 1375 2570</td>
<td>3 3 3 2 2 3 4 3 4 -</td>
<td>5 5 M S-U SF M Pi</td>
</tr>
<tr>
<td>108 1405 2560</td>
<td>2 3 3 3 1 2 5 4 4 -</td>
<td>4 5 M S-U SF M Pi</td>
</tr>
<tr>
<td>109 1420 2570</td>
<td>3 3 4 4 1 3 5 4 4 -</td>
<td>5 3 M S-U SF M R</td>
</tr>
<tr>
<td>110 1440 2625</td>
<td>3 4 4 4 3 2 2 2 5 -</td>
<td>3 3 M S-U F M R</td>
</tr>
<tr>
<td>110 1395 2620</td>
<td>2 3 4 4 1 4 5 2 4 -</td>
<td>5 6 M S-U SF M R</td>
</tr>
<tr>
<td>111 1435 2600</td>
<td>4 4 2 2 2 3 2 3 3 -</td>
<td>5 4 M P SF M R</td>
</tr>
<tr>
<td>111 1425 2570</td>
<td>4 4 3 4 1 3 2 3 3 -</td>
<td>3 3 F U F L Pi</td>
</tr>
<tr>
<td>111 1430 2590</td>
<td>4 4 2 2 1 4 2 3 5 -</td>
<td>5 5 M P SF M R</td>
</tr>
<tr>
<td>111 1430 2600</td>
<td>3 3 3 4 2 3 4 3 2 -</td>
<td>4 6 F U SF L Pi</td>
</tr>
<tr>
<td>112 1430 2630</td>
<td>3 3 3 2 3 5 2 4 4 -</td>
<td>2 4 M U SF M R</td>
</tr>
<tr>
<td>112 1425 2620</td>
<td>3 3 4 2 4 2 2 2 4 -</td>
<td>3 3 M S-U SF M R</td>
</tr>
<tr>
<td>113 1420 2640</td>
<td>3 4 3 2 2 3 3 3 4 -</td>
<td>3 3 M U SD M R</td>
</tr>
<tr>
<td>113 1415 2630</td>
<td>3 4 5 4 3 4 5 3 6 -</td>
<td>4 5 F S-U F M W</td>
</tr>
<tr>
<td>113 1435 2605</td>
<td>4 3 2 2 2 2 3 3 -</td>
<td>4 5 M S-U SF L R</td>
</tr>
<tr>
<td>113 1435 2650</td>
<td>2 2 2 4 3 3 3 2 4 -</td>
<td>4 4 M S-U SD M R</td>
</tr>
<tr>
<td>114 1435 2630</td>
<td>3 3 2 3 3 3 4 3 3 -</td>
<td>3 2 M U SD M R</td>
</tr>
<tr>
<td>114 1265 2660</td>
<td>2 1 4 3 3 4 3 4 5 -</td>
<td>3 3 M U SF S S R</td>
</tr>
<tr>
<td>115 1455 2665</td>
<td>4 5 2 4 3 4 4 4 3 -</td>
<td>3 5 M U SF L W</td>
</tr>
<tr>
<td>115 1455 2684</td>
<td>2 3 3 4 4 3 2 4 2 -</td>
<td>4 5 M S-U SF L R</td>
</tr>
<tr>
<td>116 1465 2690</td>
<td>4 3 5 3 2 3 3 2 4 -</td>
<td>4 4 M P F M Pi</td>
</tr>
<tr>
<td>118 1480 2700</td>
<td>4 4 4 3 3 2 3 2 2 -</td>
<td>2 3 M S-U SF L R</td>
</tr>
</tbody>
</table>

### AGRONOMIC CHARACTERISTICS

- **Relative Maturity (RM)**
- **GDUs to Silk**
- **GDUs to Black Layer**

### PLANT CHARACTERISTICS

- **Relative Maturity (RM)**
- **GDUs to Silk**
- **GDUs to Black Layer**

### DISEASE TOLERANCE

- **Gray Leaf Spot**
- **Northern Corn Leaf Blight**
- **Bacterial Leaf Streak**
- **Anthracnose Stalk Rot**
- **Tarspot**
- **Fusarium Crown Rot**
- **Common Rust**
- **Southern Rust**

<table>
<thead>
<tr>
<th>Plant Height</th>
<th>Root Type</th>
<th>Ear Flex</th>
<th>Cob Color</th>
<th>Drought</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 = Tall</td>
<td>P = Penetrating</td>
<td>M = Modified</td>
<td>F = Fibrous</td>
<td>Agrisure Artesian water-optimized hybrid.</td>
</tr>
<tr>
<td>9 = Low</td>
<td>S-U = Semi-Upright</td>
<td>P = Pendulum</td>
<td>S = Short</td>
<td>1 = High</td>
</tr>
</tbody>
</table>

### Test Weight

- **Rating Scale**
- **Plant Height**
- **Ear Height**

- **Root Type**
- **Leaf Type**

- **Ear Flex**
- **Husk Cover**

<table>
<thead>
<tr>
<th>Test Weight</th>
<th>Plant Height</th>
<th>Root Type</th>
<th>Ear Flex</th>
<th>Cob Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 = High</td>
<td>1 = Tall</td>
<td>P = Penetrating</td>
<td>M = Modified</td>
<td>R = Red</td>
</tr>
<tr>
<td>9 = Low</td>
<td>9 = Low</td>
<td>S-U = Semi-Upright</td>
<td>P = Pendulum</td>
<td>9 = Low</td>
</tr>
</tbody>
</table>

### Golden Harvest Hybrid Series

- **103 1355 2475**
- **103 1335 2445**
- **104 1310 2555**
- **107 1375 2570**
- **108 1405 2560**
- **109 1420 2570**
- **110 1440 2625**
- **110 1395 2620**
- **111 1435 2600**
- **111 1425 2570**
- **111 1430 2590**
- **111 1430 2600**
- **112 1430 2630**
- **112 1425 2620**
- **113 1420 2640**
- **113 1415 2630**
- **113 1435 2605**
- **113 1435 2650**
- **114 1435 2630**
- **114 1265 2660**
- **115 1455 2665**
- **115 1455 2684**
- **116 1465 2690**
- **118 1480 2700**
Corn

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

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

G09Y24 Artesian
RM: 109

TOP-END YIELD POTENTIAL FOR WESTERN IRRIGATED ENVIRONMENTS

- Very good ear flex for seeding rate flexibility
- Highly responsive to fungicide applications
- Best suited on medium to coarse soil types

G10K03 Artesian
RM: 110

YIELD STABILITY SUPPORTED BY OUTSTANDING ROOTS AND SOLID STALKS

- Agrisure Artesian corn hybrid provides superior drought tolerance
- Broadly adapted hybrid across all soil environments and management styles
- Solid choice for areas with low to moderate corn rootworm pressure

G04G36 Artesian
NEW // RM: 104

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

G08D29 Artesian
RM: 108

MEDIUM PLANT HEIGHT WITH EXCITING YIELD POTENTIAL

- Maximizes yield when it rains, increases yield when it doesn’t
- Widely adapted across all soil types
- Solid stalk strength

G05K08 Artesian
RM: 105

DIVERSE GENETICS WITH TOP-END YIELD

- Quick drydown for timely harvest
- Strong disease package to protect yield
- Ear flex for population flexibility

G03C84
RM: 103
**G10L16 Artesian**  
**RM: 110**  
**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

**G11A33**  
**RM: 111**  
**MODERATE PLANT HEIGHT WITH CONSISTENT YIELDS**

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

**G11B63 Artesian**  
**RM: 111**  
**PROVIDES EXCELLENT EAR FLEX AND AGRISURE ARTESIAN TECHNOLOGY**

- Maximizes yield when it rains; increases yield when it doesn’t
- Consistent yield performance across environments
- Dependable stalk and root strength

**G11F16 Artesian**  
**RM: 111**  
**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

---

**INSIGHTS FROM OUR AGRONOMISTS**

Learn more about the exciting performance of G10L16.
**G11V76**  
**NEW // RM: 111**  
**VERSATILITY ACROSS SOIL TYPES COMBINED WITH STRONG DROUGHT TOLERANCE**  
- Moderate plant type with strong roots aids standability  
- Fast drydown and good grain quality  
- Dependable emergence in stressful environments  

**G12S75**  
**NEW // RM: 112**  
**OUTSTANDING ROOTS AND STALKS FOR SEASON-LONG STANDABILITY**  
- Very good staygreen and late-season intactness  
- Strong disease tolerance to NCLB and GLS  
- Good ear flex provides population flexibility  

**G12U17**  
**RM: 112**  
**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  

**G13H15**  
**RM: 113**  
**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  

**G13N18**  
**RM: 113**  
**EXCELLENT TOLERANCE TO HEAT AND MOISTURE STRESS WITH WESTERN ADAPTATION**  
- Excels in high-management acres of the Western Corn Belt  
- Solid performance in drought-prone and variable soil types  
- Rapid drydown contributes to ease of harvest  

**G13T41**  
**RM: 113**  
**EXCELS IN HIGH-YIELD, HIGHLY PRODUCTIVE ENVIRONMENTS**  
- Superior root and stalk strength provides late-season intactness  
- Versatile hybrid that performs well across all soil types  
- Best performance in low to moderate pH soils
**G13Z50**

**EXCELLENT EMERGENCE AND SOLID EARLY VIGOR**

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

**G13Z50**

- Emergence: 5
- Root Strength: 5
- Stalk Strength: 5
- Staygreen: 5
- Drydown: 5
- Drought: 5

**G13Z50-5222 E-Z Refuge Brand**
**G13Z50-3220 E-Z Refuge Brand**
**E113Z5-5122 E-Z Refuge Brand**

**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

**G14R38**

- Emergence: 5
- Root Strength: 5
- Stalk Strength: 5
- Staygreen: 5
- Drydown: 5
- Drought: 5

**G14R38-3122 E-Z Refuge Brand**
**G14R38-3120 E-Z Refuge Brand**
**G14R38-GT Brand**
**G14R38 Brand (Conv.)**

**G15J91**

**NEW // RM: 115**

**OUTSTANDING ROOTS AND ABOVE-AVERAGE STALKS FOR SEASON-LONG STANDABILITY**

- Exceptional versatility on a wide range of soil types
- Good ear flex provides population flexibility
- Strong fit for drought-prone environments

**G15J91**

- Emergence: 5
- Root Strength: 5
- Stalk Strength: 5
- Staygreen: 5
- Drydown: 5
- Drought: 5

**G15J91-3220 E-Z Refuge Brand**

**G15J91-3122 E-Z Refuge Brand**
**G15J91-3120 E-Z Refuge Brand**

**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

**G15L32**

- Emergence: 5
- Root Strength: 5
- Stalk Strength: 5
- Staygreen: 5
- Drydown: 5
- Drought: 5

**G15L32-5222 E-Z Refuge Brand**
**G15L32-3220 E-Z Refuge Brand**
**G15L32-3330 E-Z Refuge Brand**
**G15L32-3000GT Brand**

**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

**G16K01**

- Emergence: 5
- Root Strength: 5
- Stalk Strength: 5
- Staygreen: 5
- Drydown: 5
- Drought: 5

**G16K01-3111 Brand**
**G16K01-GT Brand**
**E116K4-3000GT Brand**

**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

**G18D87**

- Emergence: 5
- Root Strength: 5
- Stalk Strength: 5
- Staygreen: 5
- Drydown: 5
- Drought: 5

**G18D87-3111 Brand**
**G18D87-GT Brand**
**E118D8-3000GT Brand**
# CORN AGRONOMIC MANAGEMENT

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>AGRONOMIC MANAGEMENT AND PLACEMENT TRAITS</th>
<th>END-USE TRAITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Golden Harvest Hybrid Series</td>
<td>Seeding Rate % Adjustment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Adaptation to Soil Types/</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Yield Environments</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Root Strength</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stalk Strength</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Corn-on-Corn</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Drought Prone</td>
<td></td>
</tr>
<tr>
<td></td>
<td>High pH</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Highly Productive</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Variable</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Poorly Drained</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Starch</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Protein</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oil</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Feed to Gain</td>
<td></td>
</tr>
<tr>
<td>Golden Harvest Hybrid Series</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relative Maturity (RM)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>-20%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-10%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>+10%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>+20%</td>
</tr>
<tr>
<td>G03C84 103</td>
<td>Q</td>
<td>G</td>
</tr>
<tr>
<td>G03R40 103</td>
<td>F</td>
<td>G</td>
</tr>
<tr>
<td>G04G36 new 104</td>
<td>Q</td>
<td>G</td>
</tr>
<tr>
<td>G05K08 105</td>
<td>Q</td>
<td>G</td>
</tr>
<tr>
<td>G07F23 107</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>G08D29 108</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>G09Y24 109</td>
<td>G</td>
<td>B</td>
</tr>
<tr>
<td>G10K03 110</td>
<td>G</td>
<td>B</td>
</tr>
<tr>
<td>G10L16 110</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>G11A33 111</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>G11B63 111</td>
<td>G</td>
<td>B</td>
</tr>
<tr>
<td>G11F16 111</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>G11V76 new 111</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>G12S75 new 112</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>G12U17 112</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>G13H15 113</td>
<td>F</td>
<td>G</td>
</tr>
<tr>
<td>G13M18 113</td>
<td>G</td>
<td>B</td>
</tr>
<tr>
<td>G13T41 113</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>G14R38 114</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>G14V04 114</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>G15J91 new 115</td>
<td>G</td>
<td>B</td>
</tr>
<tr>
<td>G15L32 115</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>G16K01 116</td>
<td>F</td>
<td>G</td>
</tr>
<tr>
<td>G18D57 118</td>
<td>F</td>
<td>G</td>
</tr>
</tbody>
</table>

**Rating Scale**

1 = Best  
9 = Worst  
- = Not available

**Score Interpretation**

**Drought**

Agrisure Artesian water-optimized hybrid.  
Agronomy ratings are based on statistically analyzed results of studies conducted by Syngenta and are relative to other hybrids within the same maturity group.
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 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 B 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.

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 B 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 B feed to gain response.

Influence of Yield Environment and Commodity Price on Optimum Seeding Rate

<table>
<thead>
<tr>
<th>YIELD ENVIRONMENT (BU/A)</th>
<th>HIGHEST YIELDING SEEDING RATE (SEEDS/A)</th>
<th>OPTIMUM SEEDING RATE (SEEDS/A) BY COMMODITY PRICE ($/BU)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>$3.00  $3.50  $4.00  $4.50  $5.00</td>
</tr>
<tr>
<td>280</td>
<td>40,200</td>
<td>36,600  37,100  37,500  37,700  38,000</td>
</tr>
<tr>
<td>240</td>
<td>38,500</td>
<td>34,100  34,700  35,100  35,500  35,800</td>
</tr>
<tr>
<td>200</td>
<td>36,400</td>
<td>31,000  31,700  32,300  32,700  33,100</td>
</tr>
<tr>
<td>160</td>
<td>33,800</td>
<td>26,900  27,700  28,400  29,000  29,400</td>
</tr>
<tr>
<td>120</td>
<td>29,700</td>
<td>20,900  21,900  22,700  23,400  23,900</td>
</tr>
</tbody>
</table>

Corn Population Response Factors

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

“GOLDEN HARVEST LOOKS FORWARD TO WORKING WITH YOU TO BUILD ON THE LEGACY OF OUR HISTORIC BRAND. WE PROMISE TO ALWAYS PUT YOUR NEEDS FIRST, WHILE BRINGING YOU GENETICS, AGRONOMY AND SERVICE PAIRED WITH NEW SOLUTIONS LIKE E-LUMINATE AND GAME PLAN.”

Dave Young
Head, Golden Harvest Marketing
SILAGE PRODUCTS SELECTED TO PERFORM FOR YOUR HERD.

Trust your Seed Advisor to understand the silage needs of your operation and offer product recommendations to help increase the productivity of your herd. In addition to choosing hybrids that fit your soil conditions and your grain quality requirements, your Seed Advisor can offer advice on:

- Testing soil to monitor fertility issues as a result of manure applications
- Planting population recommendations and planting timing considerations
- Harvest timing to ensure optimal moisture and higher quality silage
- How Enogen® Feed corn hybrids may increase your potential return on investment
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.

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>AGRONOMIC CHARACTERISTICS</th>
<th>DISEASE TOLERANCE</th>
<th>AGRONOMIC RESEARCH RATINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Feed Effect On*</td>
</tr>
<tr>
<td></td>
<td>Relative Maturity (RM)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Golden Harvest Hybrid Series</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G03C84</td>
<td>103</td>
<td>4 3 3 5 3 3</td>
<td>4 4</td>
</tr>
<tr>
<td>G03R40</td>
<td>103</td>
<td>2 2 3 3 4 4</td>
<td>4 3</td>
</tr>
<tr>
<td>G05K08</td>
<td>105</td>
<td>3 4 1 6 5 6</td>
<td>4 4</td>
</tr>
<tr>
<td>G07F23</td>
<td>107</td>
<td>3 3 2 4 5 5</td>
<td>3 4</td>
</tr>
<tr>
<td>G08D29</td>
<td>108</td>
<td>2 3 1 5 4 5</td>
<td>4 3</td>
</tr>
<tr>
<td>G09Y24</td>
<td>109</td>
<td>3 4 1 5 5 3</td>
<td>5 4</td>
</tr>
<tr>
<td>G10K03</td>
<td>110</td>
<td>3 3 4 2 3 3</td>
<td>5 4</td>
</tr>
<tr>
<td>G10L16</td>
<td>110</td>
<td>2 4 1 5 5 6</td>
<td>4 3</td>
</tr>
<tr>
<td>G11A33</td>
<td>111</td>
<td>4 2 2 2 2 5</td>
<td>3 5</td>
</tr>
<tr>
<td>G11B63</td>
<td>111</td>
<td>4 3 1 2 3 3</td>
<td>4 3</td>
</tr>
<tr>
<td>G12U17</td>
<td>112</td>
<td>3 4 4 2 3 3</td>
<td>4 5</td>
</tr>
<tr>
<td>G13H15</td>
<td>113</td>
<td>3 3 2 3 3 3</td>
<td>3 3</td>
</tr>
<tr>
<td>G13N18</td>
<td>113</td>
<td>3 5 3 5 4 5</td>
<td>6 4</td>
</tr>
<tr>
<td>G13Z50</td>
<td>113</td>
<td>2 2 3 3 4 4</td>
<td>4 3</td>
</tr>
<tr>
<td>G14R38</td>
<td>114</td>
<td>3 2 3 4 3 2</td>
<td>5 4</td>
</tr>
<tr>
<td>G14V04</td>
<td>114</td>
<td>2 4 3 3 3 3</td>
<td>5 3</td>
</tr>
<tr>
<td>G15L32</td>
<td>115</td>
<td>2 3 4 2 4 5</td>
<td>3 4</td>
</tr>
<tr>
<td>G16K01</td>
<td>116</td>
<td>4 5 2 3 4 4</td>
<td>5 3</td>
</tr>
<tr>
<td>G18D87</td>
<td>118</td>
<td>4 4 3 2 2 3</td>
<td>3 4</td>
</tr>
</tbody>
</table>

NOTE: Hybrid characteristics such as staygreen and drought stress tolerance are also important to consider when selecting hybrids for silage. Digestibility ratings are based on NIR and in-vitro digestibility analysis. Milk performance estimates generated from University of Wisconsin equations. Compositions should only be made among hybrids within a maturity group. Although actual silage yield and quality analysis of a hybrid will vary with environment, the relative ranking of a hybrid will be similar. These ratings are a relative performance guide.

Conduct a laboratory test to determine actual silage quality when balancing a feed ration.

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

Plant Height
1 = Tall
9 = Short

Ear Height
1 = High
9 = Low

Ratings Key
B = Best
G = Good
F = Fair
P = Poor
- = Not available

Drought:
ArGisure Artesian 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 48 hr): Measure of the indigestible and slowly digestible components of the silage.

Neutral Detergent Fiber Digestibility 48 Hour (NDF Dig 48 hr): Estimates the ruminant digestibility of the NDF fraction.

Starch: Indicates the percent content of feed component.

Fat: Indicates the percent of feed component that is fat.

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 not be used to estimate actual production per animal, but instead they should be used to determine relative overall silage quality and yield of each hybrid.

Added Value IN BEEF AND DAIRY

- Enogen Feed corn hybrids in livestock production has been shown to increase feed efficiency by an average of 5% in stocker and finishing cattle, according to feeding trials at the University of Nebraska-Lincoln (UNL) and Kansas State University (KSU)\(^1\)
- Enogen Feed corn hybrids improve starch utilization, resulting in more available energy for your herd
- Enogen Feed corn hybrids may be harvested as silage, grain or high-moisture corn, allowing for greater flexibility and ease of use with minimized management needs, as compared to alternative silage-specific hybrids for beef or dairy operations
- Farm-proven yields, equal to or better than non-Enogen Feed hybrids\(^2\)

Added Value in ETHANOL PRODUCTION

- Enogen corn enables farmers to produce highly desirable corn for ethanol plants
- Enogen hybrids feature a unique corn enzyme that is designed to increase potential throughput while reducing natural gas, water and electricity use
- These highly desirable traits may command a premium at sale for potential increased return on investment

\(^2\)Syngenta production data 2012-2017
## ENOGEN HYBRID CHARACTERISTICS

<table>
<thead>
<tr>
<th>PRODUCT Hybrid Series</th>
<th>Trait Offers*</th>
<th>Maturity Information</th>
<th>Agronomic Characteristics</th>
<th>Plant Characteristics</th>
<th>Disease Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enogen Hybrid Series</td>
<td>Above/Below Ground Insect Protection</td>
<td>Relative Maturity (RM)</td>
<td>GDUs to Silk</td>
<td>GDUs to Black Layer</td>
<td>Emergence</td>
</tr>
<tr>
<td>E109Y2 5122A</td>
<td>EVT-1</td>
<td>109 1420 2570</td>
<td>3 3 4 4 1 3 5 4 4</td>
<td>5 3 M S-U SF</td>
<td>M R</td>
</tr>
<tr>
<td>E111A3 5122</td>
<td>EVT-1</td>
<td>111 1435 2600</td>
<td>4 4 2 2 2 3 2 3 3</td>
<td>5 4 M P SF</td>
<td>M R</td>
</tr>
<tr>
<td>E111C6 5122A</td>
<td>EVT-1</td>
<td>111 1425 2570</td>
<td>4 4 2 2 4 2 3 3 3</td>
<td>3 3 F U F L Pi</td>
<td>4 4 3 3 - 6 - 5</td>
</tr>
<tr>
<td>E113N8 3000GT</td>
<td>EVT-1</td>
<td>113 1415 2630</td>
<td>4 4 2 2 4 3 3 2 2</td>
<td>4 4 M S-U SD</td>
<td>M R</td>
</tr>
<tr>
<td>E113Z5 5122</td>
<td>EVT-1</td>
<td>113 1435 2650</td>
<td>3 3 4 4 2 3 3 3 2</td>
<td>3 3 M S-U SF</td>
<td>M R</td>
</tr>
<tr>
<td>E114H8 5122A</td>
<td>EVT-1</td>
<td>114 1455 2660</td>
<td>4 4 4 5 2 3 3 3 3</td>
<td>3 3 M S-U SF</td>
<td>M R</td>
</tr>
<tr>
<td>E116K4 3000GT</td>
<td>EVT-1</td>
<td>116 1465 2690</td>
<td>4 3 3 5 2 3 3 3 3</td>
<td>4 4 M P F M</td>
<td>Pi</td>
</tr>
<tr>
<td>E118D8 3000GT</td>
<td>EVT-1</td>
<td>118 1480 2700</td>
<td>4 4 4 4 3 3 3 3 3</td>
<td>2 3 M S-U SF L</td>
<td>R R</td>
</tr>
</tbody>
</table>

**Rating Scale**
- 1 = Best
- 9 = Worst
- = Not available
- **EVT Type**
  - GLYPHOSATE
  - GLUFOSINATE

### HERBICIDE TOLERANCE

<table>
<thead>
<tr>
<th>HERBICIDE TOLERANCE</th>
<th>Glyphosate</th>
<th>Glufosinate</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVT1</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>EVT0</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>EVT5.1</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>EVT3</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>EVTL</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>No EVT</td>
<td>x</td>
<td></td>
</tr>
</tbody>
</table>

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.

**Note: Disease and Insect Ratings**
Ratings are not absolute; environmental conditions and certain cultural practices, such as continuous corn, play a critical role in disease development and insect infestation, which can, in turn, predispose plants to secondary disease such as stalk and ear rots. If conditions are severe, even hybrids rated as resistant can be adversely affected. Farmers should balance yield potential, hybrid maturity and cultural practices against the anticipated risk of disease or insect pressure.

Ratings are based on interpretation of statistically analyzed results of studies conducted by Syngenta.

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 for optimum yield and excellent weed control.

### EXPERIENCE THE ENOGEN EFFECT

Scan and hear about the Enogen advantage in dairy from a university expert.
ENOGEN

E111C6 Artesian

PROVIDES EXCELLENT EAR FLEX AND AGRISEURE ARTESIAN TECHNOLOGY

- Maximizes yield when it rains; increases yield when it doesn’t
- Consistent yield performance across environments
- Dependable stalk and root strength

E111C6-5122A E-Z Refuge Brand

E113N8

EXCELLENT TOLERANCE TO HEAT AND MOISTURE STRESS WITH WESTERN ADAPTATION

- Excels in high-management acres of the Western Corn Belt
- Solid performance in drought-prone and variable soil types
- Rapid drydown contributes to ease of harvest

E113N8-3000GT Brand

E113Z5

EXCELLENT EMERGENCE AND SOLID EARLY VIGOR

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

E113Z5-5122 E-Z Refuge Brand

E114H6 Artesian

OUTSTANDING YIELD POTENTIAL WITH AGRISEURE ARTESIAN TECHNOLOGY

- Maximizes yield when it rains; increases yield when it doesn’t
- Proven yield across multiple soil types and environments for stable performance
- Solid leaf disease package enhances broad adaptability

E114H6-5122A E-Z Refuge Brand

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

E116K4-3000GT Brand

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

E118D8-3000GT Brand
ENOGEN HYBRID AGRONOMIC MANAGEMENT

PRODUCT

<table>
<thead>
<tr>
<th>Enogen Hybrid Series</th>
<th>AGRONOMIC MANAGEMENT AND PLACEMENT TRAITS</th>
<th>END-USE TRAITS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Seeding Rate % Adjustment</td>
<td>Adaptation to Soil Types/Yield Environments</td>
</tr>
<tr>
<td></td>
<td>-20%</td>
<td>-10%</td>
</tr>
<tr>
<td>Enogen Hybrid Series</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E10Y2</td>
<td>G</td>
<td>B</td>
</tr>
<tr>
<td>E11A3</td>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>E11C6</td>
<td>G</td>
<td>B</td>
</tr>
<tr>
<td>E13N8</td>
<td>G</td>
<td>B</td>
</tr>
<tr>
<td>E14H6</td>
<td>G</td>
<td>B</td>
</tr>
<tr>
<td>E16K4</td>
<td>F</td>
<td>G</td>
</tr>
<tr>
<td>E18D8</td>
<td>F</td>
<td>G</td>
</tr>
</tbody>
</table>

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

Score Interpretation
B = Best
G = Good
F = Fair
P = Poor
- = 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.

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>HIGHEST YIELDING SEEDING RATE (SEEDS/A)</th>
<th>OPTIMUM SEEDING RATE (SEEDS/A) BY COMMODITY PRICE ($/BU) (SEED COST = $200/80K UNIT)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>$3.00</td>
</tr>
<tr>
<td>280</td>
<td>40,200</td>
<td>36,600</td>
</tr>
<tr>
<td>240</td>
<td>38,500</td>
<td>34,100</td>
</tr>
<tr>
<td>200</td>
<td>36,400</td>
<td>31,000</td>
</tr>
<tr>
<td>160</td>
<td>33,800</td>
<td>26,900</td>
</tr>
<tr>
<td>120</td>
<td>29,700</td>
<td>20,900</td>
</tr>
</tbody>
</table>

General Interpretation of Hybrid Response to Management/Placement Situations and End-Use Traits

Seeding Rate % Adjustment: After determining the B 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.
SOYBEANS WITH PROVEN YIELD POTENTIAL AND INDUSTRY-LEADING CHOICE WEED CONTROL OPTIONS.

Golden Harvest Soybeans are recognized for top-end yield potential with the broadest choice of trait packages. Nearly 900 local trials help ensure that we know what works in your area. Backed with locally knowledgeable Seed Advisors you can trust to select and place the right products for your conditions, our soybean varieties offer:

PROVEN PERFORMANCE
- Industry-leading genetics in locally bred and tested varieties for proven yield
- 23 Top 3 Finishers and 73 Top 10 Finishers in 2019 FIRST Trials'

STRONG DEFENSIVE AGRONOMICS
- Excellent tolerance to damaging pests and diseases such as Soybean Cyst Nematode, Sudden Death Syndrome, Iron Deficiency Chlorosis and Phytophthora root rot

'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
BROADEST CHOICE OF HERBICIDE TOLERANCE TRAITS FOR SUPERIOR WEED CONTROL.

Enlist E3® Soybeans provide yield potential and agronomics and offer superior application flexibility and tank mix options to manage resistant weeds.

Roundup Ready 2 Xtend® Soybeans deliver a full portfolio of proven yield performance with defensive trait options.

LibertyLink® GT27™ Soybeans are known for yield potential and agronomics and allow for in-season glufosinate and glyphosate applications.
SOYBEAN CHARACTERISTICS

### AGRONOMIC/PLANT CHARACTERISTICS*

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>HERBICIDE TOLERANT TRAIT</th>
<th>RELATIVE MATURITY (RM)</th>
<th>EMERGENCE</th>
<th>CANOPY/PLANT TYPE</th>
<th>GROWTH HABIT</th>
<th>PLANT HEIGHT</th>
<th>FLOWER COLOR</th>
<th>PODULE COLOR</th>
<th>HILUM COLOR</th>
<th>GREEN STEM RATING</th>
<th>ADAPTATION TO SOIL TYPES/YIELD ENvironments</th>
<th>HERBICIDE RESPONSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>GH2041X RR2X 2.0</td>
<td>3 M M IND 2</td>
<td>1 2</td>
<td>WH LTW BR BL</td>
<td>3</td>
<td>G</td>
<td>G</td>
<td>B</td>
<td>B</td>
<td>F</td>
<td>B</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>GH2329X NEW RR2X 2.3</td>
<td>2 MB M IND 4</td>
<td>3 1</td>
<td>WH LTW BR BL</td>
<td>3</td>
<td>G</td>
<td>F</td>
<td>G</td>
<td>G</td>
<td>B</td>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH2523E3 NEW E3 2.6</td>
<td>3 MB M IND 3</td>
<td>2 1</td>
<td>PUR GR TN IMB</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH2552X RR2X 2.5</td>
<td>3 MB MT IND 3</td>
<td>2 1</td>
<td>WH LTW BR BL</td>
<td>2</td>
<td>G</td>
<td>G</td>
<td>G</td>
<td>B</td>
<td>B</td>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH2610E3 E3 2.6</td>
<td>2 M M IND 2</td>
<td>1 2</td>
<td>PUR GR TN BF</td>
<td>2</td>
<td>F</td>
<td>G</td>
<td>B</td>
<td>B</td>
<td>G</td>
<td>G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH2788X RR2X 2.7</td>
<td>3 M MS IND 2</td>
<td>1 1</td>
<td>PUR GR BR IMB</td>
<td>3</td>
<td>G</td>
<td>P</td>
<td>B</td>
<td>G</td>
<td>B</td>
<td>F</td>
<td>G</td>
<td></td>
</tr>
<tr>
<td>GH2818E3 E3 2.8</td>
<td>2 M M IND 3</td>
<td>1 1</td>
<td>WH LTW TN BF</td>
<td>2</td>
<td>B</td>
<td>F</td>
<td>B</td>
<td>G</td>
<td>B</td>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH2981X RR2X 2.9</td>
<td>2 MB M IND 3</td>
<td>1 1</td>
<td>PUR LTW BR</td>
<td>2</td>
<td>G</td>
<td>B</td>
<td>G</td>
<td>B</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH3042E3 E3 3.0</td>
<td>3 MB M IND 3</td>
<td>2 1</td>
<td>PUR GR TN IMB</td>
<td>3</td>
<td>G</td>
<td>F</td>
<td>G</td>
<td>G</td>
<td>G</td>
<td>B</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>GH3088X RR2X 3.0</td>
<td>2 MB M IND 3</td>
<td>1 1</td>
<td>PUR LTW BR BL</td>
<td>3</td>
<td>G</td>
<td>G</td>
<td>B</td>
<td>B</td>
<td>B</td>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH3152E3S E3/STS 3.1</td>
<td>2 MB MT IND 3</td>
<td>1 1</td>
<td>PUR GR BR BF</td>
<td>4</td>
<td>B</td>
<td>P</td>
<td>B</td>
<td>G</td>
<td>B</td>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH3195X RR2X 3.1</td>
<td>3 M M IND 3</td>
<td>1 2</td>
<td>WH LTW TN BL</td>
<td>4</td>
<td>G</td>
<td>G</td>
<td>G</td>
<td>B</td>
<td>B</td>
<td>G</td>
<td>G</td>
<td></td>
</tr>
<tr>
<td>GH3347X NEW RR2X 3.3</td>
<td>3 MB MT IND 3</td>
<td>2 1</td>
<td>PUR LTW BR</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH3475X RR2X 3.4</td>
<td>3 MB M IND 3</td>
<td>2 1</td>
<td>PUR LTW BR BL</td>
<td>3</td>
<td>G</td>
<td>F</td>
<td>B</td>
<td>G</td>
<td>B</td>
<td>G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH3546X RR2X 3.5</td>
<td>3 M MT IND 3</td>
<td>1 1</td>
<td>PUR LTW BR BL</td>
<td>3</td>
<td>G</td>
<td>F</td>
<td>B</td>
<td>G</td>
<td>B</td>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH3582E3 E3 3.5</td>
<td>2 M M IND 2</td>
<td>1 1</td>
<td>PUR GR TN IMB</td>
<td>3</td>
<td>G</td>
<td>P</td>
<td>B</td>
<td>G</td>
<td>B</td>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH3727LG LL/GT27 3.7</td>
<td>3 M M IND 3</td>
<td>1 3</td>
<td>PUR LTW BR</td>
<td>3</td>
<td>B</td>
<td>P</td>
<td>G</td>
<td>G</td>
<td>B</td>
<td>G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH3728X RR2X 3.7</td>
<td>2 M M IND 3</td>
<td>2 1</td>
<td>PUR GR BR IMB</td>
<td>3</td>
<td>G</td>
<td>P</td>
<td>G</td>
<td>B</td>
<td>B</td>
<td>G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH3759E3S E3/STS 3.7</td>
<td>3 M MT IND 3</td>
<td>2 1</td>
<td>WH GR BR BF</td>
<td>-</td>
<td>G</td>
<td>P</td>
<td>B</td>
<td>B</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH3922E3 E3 3.9</td>
<td>2 MB M IND 3</td>
<td>2 1</td>
<td>WH GR BR BF</td>
<td>3</td>
<td>B</td>
<td>F</td>
<td>G</td>
<td>G</td>
<td>G</td>
<td>G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH3927LG LL/GT27 3.9</td>
<td>3 M MT IND 2</td>
<td>2 1</td>
<td>WH LTW BR</td>
<td>3</td>
<td>G</td>
<td>F</td>
<td>F</td>
<td>B</td>
<td>G</td>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH3982X RR2X 3.9</td>
<td>2 MB MT IND 3</td>
<td>1 1</td>
<td>PUR LTW TN BR</td>
<td>3</td>
<td>G</td>
<td>P</td>
<td>G</td>
<td>B</td>
<td>F</td>
<td>G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH4155E3 E3 4.1</td>
<td>2 MB M IND 2</td>
<td>1 1</td>
<td>PUR LTW TN BR</td>
<td>2</td>
<td>G</td>
<td>G</td>
<td>F</td>
<td>G</td>
<td>G</td>
<td>G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH4201E3 NEW E3 4.2</td>
<td>3 M M IND 3</td>
<td>1 1</td>
<td>WH LTW BR BR</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH4307X RR2X 4.3</td>
<td>3 M MT IND 4</td>
<td>3 1</td>
<td>PUR LTW TN BL</td>
<td>4</td>
<td>B</td>
<td>F</td>
<td>B</td>
<td>B</td>
<td>B</td>
<td>G</td>
<td>G</td>
<td></td>
</tr>
<tr>
<td>GH4314E3 E3 4.3</td>
<td>3 MB M IND 3</td>
<td>2 1</td>
<td>WH GR TN BF</td>
<td>2</td>
<td>F</td>
<td>P</td>
<td>F</td>
<td>G</td>
<td>F</td>
<td>G</td>
<td>G</td>
<td></td>
</tr>
</tbody>
</table>

* 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
- RR2X = Roundup Ready 2 Xtend®
- E3 = ENLIST E3®
- E3/STS = ENLIST E3® and STS®
- LL/GT27 = Liberty Link® and GT27®

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

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

Adaptation to Soil Types/Yield Environments
- B = Best
- G = Good
- F = Fair
- P = Poor
- - = Not available
### Resistance Rating System
- **Indicates when a variety is resistant to a specific disease or pest.**
- **For Soybean Cyst Nematode (SCN) resistance, the nematode race the variety is resistant against is specified, when available.**
- **For Phytophthora, the gene conveying the resistance is listed.**

### 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 1-13, 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
- **S** = Susceptible (no gene-specific tolerance)

### 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.

### Disease/Pest Ratings
- **1 = Best**
- **9 = Worst**
- **- = Not available**

### Soybean Cyst Nematode (SCN)
- **R** = Resistant
- **MR** = Moderately Resistant
- **S** = Susceptible
- **1, 3 and/or 14** = Specific race of soybean cyst nematode

<table>
<thead>
<tr>
<th>GRAIN QUALITY*</th>
<th>Soybean Cyst Nematode</th>
<th>Phytophthora Root Rot</th>
<th>DISEASE/PEST*</th>
<th>PRODUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Protein @13% mst.</td>
<td>% Oil @13% mst.</td>
<td>Gene Resistance</td>
<td>Field Tolerance</td>
<td>Gene Source</td>
</tr>
<tr>
<td>35.0</td>
<td>19.2</td>
<td>Rps1c 4</td>
<td>PI88788</td>
<td>R3, MR14</td>
</tr>
<tr>
<td>34.9</td>
<td>19.0</td>
<td>Rps1c 3</td>
<td>PI89772</td>
<td>MR1, MR3</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>Rps1c 3</td>
<td>PI88788</td>
<td>-</td>
</tr>
<tr>
<td>35.0</td>
<td>19.5</td>
<td>Rps1c 3</td>
<td>PI88788</td>
<td>MR3</td>
</tr>
<tr>
<td>34.0</td>
<td>21.0</td>
<td>Rps1k 4</td>
<td>Peking</td>
<td>-</td>
</tr>
<tr>
<td>34.3</td>
<td>19.3</td>
<td>Rps1c 4</td>
<td>PI88788</td>
<td>R3, MR14</td>
</tr>
<tr>
<td>35.1</td>
<td>20.4</td>
<td>Rps1k 4</td>
<td>PI88788</td>
<td>MR3</td>
</tr>
<tr>
<td>34.9</td>
<td>19.1</td>
<td>S 4</td>
<td>PI88788</td>
<td>R3, MR14</td>
</tr>
<tr>
<td>36.6</td>
<td>19.9</td>
<td>Rps1c 4</td>
<td>PI88788</td>
<td>R3, MR14</td>
</tr>
<tr>
<td>33.7</td>
<td>19.9</td>
<td>Rps1c 4</td>
<td>PI88788</td>
<td>R3, MR14</td>
</tr>
<tr>
<td>36.5</td>
<td>19.8</td>
<td>Rps1c 5</td>
<td>PI88788</td>
<td>MR3</td>
</tr>
<tr>
<td>34.7</td>
<td>19.2</td>
<td>Rps1c 4</td>
<td>PI88788</td>
<td>R3, MR14</td>
</tr>
<tr>
<td>33.7</td>
<td>19.4</td>
<td>S 3</td>
<td>PI88788</td>
<td>R3</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>S 3</td>
<td>PI88788</td>
<td>-</td>
</tr>
<tr>
<td>33.3</td>
<td>19.0</td>
<td>S 3</td>
<td>PI88788</td>
<td>R3</td>
</tr>
<tr>
<td>35.0</td>
<td>19.9</td>
<td>S 3</td>
<td>PI88788</td>
<td>R3, MR14</td>
</tr>
<tr>
<td>37.4</td>
<td>19.1</td>
<td>Rps3a 5</td>
<td>PI88788</td>
<td>MR3</td>
</tr>
<tr>
<td>35.7</td>
<td>19.1</td>
<td>Rps1c 2</td>
<td>PI88788</td>
<td>R3, R14</td>
</tr>
<tr>
<td>35.2</td>
<td>20.2</td>
<td>Rps1a 3</td>
<td>PI88788</td>
<td>MR3</td>
</tr>
<tr>
<td>36.9</td>
<td>19.5</td>
<td>S 4</td>
<td>PI88788</td>
<td>MR3</td>
</tr>
<tr>
<td>34.0</td>
<td>20.5</td>
<td>S 4</td>
<td>PI88788</td>
<td>R3, MR14</td>
</tr>
<tr>
<td>36.0</td>
<td>19.6</td>
<td>Rps3a 4</td>
<td>PI88788</td>
<td>MR3</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>S 4</td>
<td>PI88788</td>
<td>-</td>
</tr>
<tr>
<td>34.1</td>
<td>20.1</td>
<td>S 4</td>
<td>PI88788</td>
<td>R3, MR14</td>
</tr>
<tr>
<td>36.4</td>
<td>19.8</td>
<td>Rps1a 4</td>
<td>PI88788</td>
<td>MR3</td>
</tr>
</tbody>
</table>

**NEW**
**GH2041X BRAND**

**CAPTIVATING YIELD POTENTIAL AND STRIKING SDS TOLERANCE**

- Superb SDS tolerance for an obvious advantage you can see
- Strong Sclerotinia White Mold tolerance
- Great standability throughout the season

**GH2329X BRAND**

**NEW // RM: 2.3**

**STRONG TOP-END YIELD KICK AND RELIABLE GENETICS**

- Exciting yield across MG 2 and flexible to move North or South
- Superb SDS tolerance and PI89772 source of SCN resistance
- Strong Phytophthora field tolerance and Rps1c gene

**GH2523E3 BRAND**

**NEW // RM: 2.5**

**OFFENSIVE LEADER WITH WESTERN ADAPTATION**

- Strong top-end yield potential
- Moves North and South of zone well
- Very good standability and attractive plant type

**GH2552X BRAND**

**RM: 2.5**

**STRONG YIELDS WITH A COMPREHENSIVE DISEASE PACKAGE**

- Dependable SDS tolerance
- Widely adapted across soils including high pH acres
- Very good Phytophthora tolerance with Rps1c gene

**GH2610E3 BRAND**

**RM: 2.6**

**DEPENDABLE SDS TOLERANCE WITH PEKING SOURCE OF SCN RESISTANCE**

- Best performance in zone and North
- Recommended for Iron Deficiency Chlorosis acres
- Rps1k gene with good Phytophthora field tolerance

**GH2788X BRAND**

**RM: 2.7**

**DOMINANT PERFORMANCE ON ALMOST EVERY ACRE**

- Distinguishing SDS tolerance for early planting
- Superb standability helps farmers glide through harvest
- Exceptional performance on highly productive acres

---

To order, contact your local Seed Advisor or call 1-800-944-7333 or visit GoldenHarvestSeeds.com
GH2818E3 BRAND  
RM: 2.8

HIGH-YIELDING, GO ALMOST ANYWHERE GENETICS

- Broadly adapted with flexibility to move North or South
- Brings together SDS, SCN and Sclerotinia White Mold protection
- Easy-to-manage plant type supports all row spacings

**GH2981X BRAND  
RM: 2.9

STABLE YIELD POTENTIAL AND SEASON-LONG STANDABILITY

- Must-have for both dryland and irrigated growers
- Solid SDS tolerance provides farmers a strong early plant option
- Very good Iron Deficiency Chlorosis tolerance for Iowa and Nebraska soils

GH3088X BRAND  
RM: 3.0

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

**GH3152E3S BRAND  
RM: 3.1

DELIVERS THE BUSHELS AND HANDLES STRESS

- Great performance in high-yielding environments
- Maintains height, canopy, and branching under drought stress
- Outstanding emergence provides an early vegetative advantage

“E-LUMINATE PROVIDES A STRUCTURED DIGITAL EXPERIENCE FOR GOLDEN HARVEST CUSTOMERS. YOUR SEED ADVISOR WILL PROVIDE A GAME PLAN FOR EVERY FIELD USING DATA, SCIENCE, AND LOCAL AGRONOMY THAT IS TAILORED TO YOUR SPECIFIC NEEDS.”

Justin Welch
Head, Digital US Seeds
SOYBEANS

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

GH3347X Brand

HIGH-YIELDING GENETICS WITH PROVEN SDS TOLERANCE

- Performs across yield environments with exciting top-end yield potential
- Carries Frogeye Leaf Spot resistance gene
- Strong field tolerance to Phytophthora Root Rot

GH3380E3 Brand

TOP-END YIELD WITH ROBUST AGRONOMICS

- Plant type handles stress well
- Dependable Phytophthora Root Rot field tolerance
- Consistent performance across environments

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

“GOLDEN HARVEST DELIVERS GENETICS, AGRONOMY & SERVICE. OUR SERVICE 365 IS A PROMISE TO DELIVER LOCAL TIMELY INSIGHTS TO GROWERS THROUGHOUT THE GROWING SEASON AND BEYOND. WE WANT TO BE YOUR PARTNER IN THE FIELD.”

David Schlake
Golden Harvest West Agronomy Manager

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

**GH3582E3 BRAND**

**SUPERIOR PERFORMANCE ACROSS GEOGRAPHIES**

- Very strong yields across multiple years
- Reliable SDS tolerance
- Exceptional Southern Stem Canker protection

**GH3727LG BRAND**

**IMPRESSIONS YIELDS ON ANY ACRE**

- Strong performance across years
- Flexible to move North or South of zone
- Superior protection from Southern Stem Canker

**GH3728X BRAND**

**STRONG PERFORMANCE ACROSS ENVIRONMENTS**

- Great yields North and South of zone
- Outstanding Phytophthora with proven SDS tolerance
- Very good heat and drought tolerance

---

**“GOLDEN HARVEST IS FOCUSED ON PROVIDING THE BEST POSSIBLE CUSTOMER EXPERIENCE. WE ARE CONTINUALLY INVESTING IN INCREASED OFFERINGS, TECHNOLOGY AND OUR ENTIRE SERVICE TEAM TO ENSURE THAT WE WILL DELIVER ON THAT PROMISE NOW AND IN THE FUTURE.”**

Clayton Becker

Head, Golden Harvest West Commercial Unit
GH3759E3S **BRAND**

**NICE COMBINATION OF OFFENSE AND DEFENSE**

- Rps1k gene with proven Phytophthora field tolerance
- Great performance in fine-textured, poorly drained soils
- Flexible product with STS herbicide tolerance

**GH3922E3** **BRAND**

**TOP YIELDS ACROSS ENVIRONMENTS**

- Proven tolerance to SDS and Frogeye Leaf Spot
- Ability to handle drought stress
- Widely adapted for easy placement

**GH3927LG** **BRAND**

**CONSISTENT YIELDS AT ANY YIELD LEVEL**

- Great standability for easy harvest
- Performs well on variable soils
- Superb tolerance to Frogeye Leaf Spot

**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

“THE GENETIC DIVERSITY AND TRAIT CHOICE SET GOLDEN HARVEST APART FROM OTHER SEED COMPANIES. WE OFFER THE MOST DIVERSE, WIDEST CORN PORTFOLIO WITH INDUSTRY LEADING AGRISURE TRAITS. OUR SOYBEAN PORTFOLIO IS SECOND TO NONE WITH TRAIT CHOICES AND FLEXIBILITY.”

David Schlake
Golden Harvest West Agronomy Manager

To order, contact your local Seed Advisor or call 1-800-944-7333 or visit GoldenHarvestSeeds.com
### GH4155E3 BRAND
**TOP PERFORMANCE ON THE TOUGH ACRE**

- Broadly adapted across MG 4 acres
- Great season-long standability
- Wide plant type shades rows quickly

<table>
<thead>
<tr>
<th>Trait</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergence</td>
<td>9</td>
</tr>
<tr>
<td>Standability</td>
<td>7</td>
</tr>
<tr>
<td>Phytophthora Field Tolerance</td>
<td>5</td>
</tr>
<tr>
<td>Sudden Death Syndrome</td>
<td>3</td>
</tr>
<tr>
<td>Iron Deficiency Chlorosis</td>
<td>1</td>
</tr>
<tr>
<td>Frogeye Leaf Spot</td>
<td>1</td>
</tr>
</tbody>
</table>

RM: 4.1

### GH4201E3 BRAND
**NEW // GREAT YIELDS WITH STRONG AGRONOMICS**

- Performs well North and South of zone
- Solid tolerance to SDS
- Maintains performance across all yield levels

<table>
<thead>
<tr>
<th>Trait</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergence</td>
<td>9</td>
</tr>
<tr>
<td>Standability</td>
<td>7</td>
</tr>
<tr>
<td>Phytophthora Field Tolerance</td>
<td>5</td>
</tr>
<tr>
<td>Sudden Death Syndrome</td>
<td>3</td>
</tr>
<tr>
<td>Iron Deficiency Chlorosis</td>
<td>1</td>
</tr>
<tr>
<td>Frogeye Leaf Spot</td>
<td>1</td>
</tr>
</tbody>
</table>

RM: 4.2

### 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

<table>
<thead>
<tr>
<th>Trait</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergence</td>
<td>9</td>
</tr>
<tr>
<td>Standability</td>
<td>7</td>
</tr>
<tr>
<td>Phytophthora Field Tolerance</td>
<td>5</td>
</tr>
<tr>
<td>Sudden Death Syndrome</td>
<td>3</td>
</tr>
<tr>
<td>Iron Deficiency Chlorosis</td>
<td>1</td>
</tr>
<tr>
<td>Frogeye Leaf Spot</td>
<td>1</td>
</tr>
</tbody>
</table>

RM: 4.3

### GH4314E3 BRAND
**GOOD COMBINATION OF OFFENSE AND DEFENSE**

- Well suited for variable soils
- Excellent Frogeye Leaf Spot tolerance
- Performs across all soil types

<table>
<thead>
<tr>
<th>Trait</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergence</td>
<td>9</td>
</tr>
<tr>
<td>Standability</td>
<td>7</td>
</tr>
<tr>
<td>Phytophthora Field Tolerance</td>
<td>5</td>
</tr>
<tr>
<td>Sudden Death Syndrome</td>
<td>3</td>
</tr>
<tr>
<td>Iron Deficiency Chlorosis</td>
<td>1</td>
</tr>
<tr>
<td>Frogeye Leaf Spot</td>
<td>1</td>
</tr>
</tbody>
</table>

RM: 4.3

“GOLDEN HARVEST IS FOCUSED ON MAXIMIZING FARMERS’ RETURN ON THEIR SEED INVESTMENT BY PLACING HYBRIDS IN THE RIGHT ENVIRONMENT TO SUCCEED AND MAKING REAL-TIME MANAGEMENT DECISIONS.”

Justin Welch
Head, Digital US Seeds
HELPING CROPS REALIZE FULL POTENTIAL

Your Seed Advisor is extremely knowledgeable on the entire Syngenta crop protection portfolio and can recommend the right products for your conditions. From herbicides and fungicides to insecticides and seed treatments, these products are designed to increase plant health, improve crop yield and performance in both corn and soybeans.

GOLDEN HARVEST PREFERRED SEED TREATMENTS
Delivers customized soybean seed protection with improved disease control and handling properties:

- Contains an enhanced rate of Apron XL® seed treatment fungicide for superior protection of seed- and soilborne 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 CruiserMaxx® Vibrance® with an option to add Saltro® fungicide seed treatment, the leading protection against Sudden Death Syndrome (SDS) and Soybean Cyst Nematode (SCN).

POWERED BY CRUISERMAXX VIBRANCE

- Delivers early season, broad-spectrum insect and disease from day one
- Delivers faster speed to canopy and more robust, vigorous plants for improved overall performance through the Cruiser® Vigor Effect
- Optimizes root health, nutrient uptake, water usage and stress tolerance for better emergence through the unique Rooting Power of Vibrance seed treatment fungicide

ENHANCED WITH SALTRO®

- 4+ bushels per acre (bu/A) yield improvement over ILEVO® under SDS pressure
- Higher intrinsic activity than older technology to protect against the cause of SDS
- Robust activity against soybean cyst, root knot, reniform, lesion and lance nematodes
- Superior protection from SDS without signs of plant stress, including phytotoxicity, stunting, reduced plant stands, susceptibility to pests or weather, and reduced plant growth above and below ground

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

**CruiserMaxx® Vibrance®**
CruiserMaxx Vibrance seed treatment provides powerful protection for corn and soybeans against early-season insects and seedborne and soilborne diseases, promoting optimal root health, stress tolerance and plant vigor for better emergence.

**Avicta® Complete Corn 500**
Avicta® Complete Corn 500 seed treatment offers triple protection against early-season nematodes, insects and disease.

**FUNGICIDES**

**Miravis® Neo**
Miravis® Neo fungicide provides plant-health benefits and long-lasting protection against corn leaf blight (NCLB), gray leaf spot (GLS), tar spot and ear rot in corn. In soybeans, this product delivers broad spectrum control of devastating diseases like brown spot and frogeye leaf spot, while also controlling white mold.

**Saltro®**
Saltro® fungicide seed treatment provides consistently superior SDS protection without the plant stress. Delivering upgraded SDS protection, robust nematode activity and less early-season stress, Saltro helps soybeans reach their full genetic yield potential.

**Insecticides**

**Force® 6.5G**
Force® 6.5G insecticide granular insecticide controls corn rootworm and other soil-dwelling insects in corn with a lower dust formulation that offers excellent application flexibility.

**Besige®**
Besige® insecticide provides long-lasting protection against lepidopteran pests along with broad-spectrum control of other damaging insects.

**HERBICIDES**

**Acuron®**
Acuron® corn herbicide helps unlock your corn’s full yield potential by controlling tough weeds other products miss.

**Tavium®**
Tavium® Plus VaporGrip® Technology herbicide features two sites of action for contact and long-lasting residual control of key broadleaf and grass weeds in Roundup Ready 2 Xtend® Soybeans.
DATA INSIGHTS DRIVE INFORMED DECISION-MAKING.

Our exclusive E-Luminate® digital agronomy platform contains over 15 years of environmental and trial data. That powerhouse of information enables your Golden Harvest Seed Advisor to more precisely place products for maximum performance and gain insights that inform next year’s crop plan. Its capabilities include:

**GaMePLaN**
- Final field x field plan
- Rate assignments
- Proposals
- Customized product information

**RangeFinder**
- Variable rate scripts
- Auto-generated based on Golden Harvest trialing
- RangeFinder Population testing blocks

**E-Luminate Mobile**
- Disease-fungicide application
- Pollination timing
- Start yield expectations
- In-field Decision Hub

**Decision Hub**
- Weather data
- Predictive analytics
- Seasonal review
- Monitor data importation—yield, as applied

To order, contact your local Seed Advisor or call 1-800-944-7333 or visit GoldenHarvestSeeds.com
UNDERSTANDING THE AGRISURE TRAITS PORTFOLIO.

To help farmers understand the competitive advantage of Agrisure traits, a streamlined naming system was developed. The naming system creates consistency for delivery of new technology and trait-stacking opportunities.

On each seed bag tag, farmers will see four numbers. How it works:

<table>
<thead>
<tr>
<th>MASTER BRAND</th>
<th>SUFFIX</th>
<th>TECH SERIES</th>
<th>TRAITS</th>
<th>ARTESIAN HYBRID</th>
<th>INTEGRATED, SINGLE BAG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agrisure</td>
<td>Duracade</td>
<td>5</td>
<td>2 2 2 2</td>
<td>A</td>
<td>E-Z Refuge</td>
</tr>
<tr>
<td>Agrisure</td>
<td>Viptera</td>
<td>3</td>
<td>2 2 2 0</td>
<td></td>
<td>E-Z Refuge</td>
</tr>
</tbody>
</table>

The master brand.
The brand suffix changes as new technologies are introduced.
The technology series is indicated by the first number.
The numerical identifiers represent the number of insect control modes of action.
The letter A indicates the hybrid is a water-optimized Agrisure Artesian hybrid.
The E-Z Refuge descriptor indicates that the hybrid is an integrated, single-bag refuge product.

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

Drought Season-long Protection
Drydown Staygreen Stalk Strength Root Strength Emergence

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

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

In addition, Enogen corn must be grown as an identity preserved crop in compliance with the Enogen stewardship program. 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>
</tr>
</thead>
<tbody>
<tr>
<td>Agrisure3000GT</td>
<td>20%</td>
<td>50%</td>
</tr>
<tr>
<td>AgrisureArtesian</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AgrisureViptera</td>
<td>20%</td>
<td></td>
</tr>
<tr>
<td>Agrisure3120</td>
<td></td>
<td>E-Z Refuge—no additional refuge required</td>
</tr>
<tr>
<td>Agrisure3122</td>
<td></td>
<td>20% supplemental refuge</td>
</tr>
<tr>
<td>AgrisureDuracade</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Refuge size is calculated by applying the appropriate percentage (e.g., 20%, 50%) to the TOTAL CORN ACRES.

*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.

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.
## CORN CROP PLANNING

<table>
<thead>
<tr>
<th>Field Name:</th>
<th>Field Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hybrid:</td>
<td>Hybrid:</td>
</tr>
<tr>
<td>Population:</td>
<td>Population:</td>
</tr>
<tr>
<td>Management Considerations:</td>
<td>Management Considerations:</td>
</tr>
</tbody>
</table>

## SOYBEAN CROP PLANNING

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

<table>
<thead>
<tr>
<th>Field Name:</th>
<th>Field Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hybrid:</td>
<td>Hybrid:</td>
</tr>
<tr>
<td>Population:</td>
<td>Population:</td>
</tr>
<tr>
<td>Management Considerations:</td>
<td>Management Considerations:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SOYBEAN CROP PLANNING

<table>
<thead>
<tr>
<th>Field Name:</th>
<th>Field Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variety:</td>
<td>Variety:</td>
</tr>
<tr>
<td>Population:</td>
<td>Population:</td>
</tr>
<tr>
<td>Management Considerations:</td>
<td>Management Considerations:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
TAP INTO OUR TEAM’S EXPERTISE.

The Golden Harvest agronomy team compiled over 30 research studies into the Agronomy In Action 2020 Research Review to help you navigate the upcoming growing season.

Get your copy at goldenharvestseeds.com/p/agronomy-guide/

Product performance assumes disease presence.


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. Orondis Gold may be sold as a formulated premix or as a combination of separately registered products: Orondis Gold 200 and Orondis Gold B.

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. LibertyLink®, Liberty® and the Water Droplet logo are registered trademarks of BASF. GT27™ is a trademark of M.S. Technologies and BASF. HERCULEX® and the HERCULEX Shield are trademarks of Dow AgroSciences, LLC. HERCULEX Insect Protection technology by Dow AgroSciences. 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® and NK® 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 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 protected traits for planting or transfer to others for use as a planting seed. 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. Roundup Ready 2 Yield®, Roundup Ready 2 Xtend®, and VaporGrip® and YieldGard VT Pro® are trademarks of, and used under license from, Monsanto Technology LLC. ENLIST E3® soybean technology is jointly developed with Dow Agrosciences LLC. The ENLIST trait and ENLIST Weed Control System are technologies owned and developed by Dow Agrosciences LLC. ENLIST® and ENLIST E3® are trademarks of Dow AgroSciences LLC. STS® is a registered trademark of DuPont. 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. More information about Agrisure Duracade® is available at http://www.biotradestatus.com/

All photos are either property of Syngenta or used with permission.

1-800-944-7333 | GOLDENHARVESTSEEDS.COM