2021 SEED GUIDE

ROOTED IN
GENETICS
AGRONOMY & SERVICE™
SINCE 1973

NORTHERN PLAINS
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.¹

**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.

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

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.

Agrisure Duracade®
- 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*

Agrisure Viptera
- 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**

Agrisure Artesian®
- 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 drought²

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*Data based on 2018 Syngenta trials
**Study results from Syngenta field trials in 33 locations
¹ Source info: Yield 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
² Source info: Syngenta on-farm strip trials across the Corn Belt, 2010-2014
## CORN CHARACTERISTICS

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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 for optimum yield and excellent weed control. LibertyLink®, Liberty®, and the Water Droplet logo are registered trademarks of BASF Corporation.
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Rating Scale
1 = Best
9 = Worst
- = Not available

Test Weight
1 = High
9 = Low

Plant Height
1 = Tall
9 = Short

Ear Height
1 = 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
M = Medium
L = Long

Cob Color
R = Red
Pi = Pink
W = White

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

Drought
Agrisure Artesian
water-optimized hybrid.
CORN

G78C29
RM: 78
GREAT DROUGHT TOLERANCE FOR CONSISTENT YIELDS

- Broad adaptation across yield environments
- Very good emergence and vigor
- Heavy test weight with good grain quality

Rating
Emergence 0 7 5 3 1 1 1 1 1 1
Root Strength 1 1 1 1 1 1 1 1 1 1
Stalk Strength 1 1 1 1 1 1 1 1 1 1
Stays Green 1 1 1 1 1 1 1 1 1 1
Drydown 1 1 1 1 1 1 1 1 1 1
Drought 1 1 1 1 1 1 1 1 1 1

G78C29-3220 E-Z Refuge Brand

G82M47
RM: 82
EXCITING YIELD PERFORMANCE WITH QUICK DRYDOWN

- Maximum yields on highly productive soils
- Very strong roots for season-long standability
- Strong emergence with great early vigor

Rating
Emergence 1 1 1 1 1 1 1 1 1 1
Root Strength 1 1 1 1 1 1 1 1 1 1
Stalk Strength 1 1 1 1 1 1 1 1 1 1
Stays Green 1 1 1 1 1 1 1 1 1 1
Drydown 1 1 1 1 1 1 1 1 1 1
Drought 1 1 1 1 1 1 1 1 1 1

G82M47-3220 E-Z Refuge Brand

G80Q01 Artesian
RM: 80
CONSISTENTLY PERFORMS ACROSS A WIDE RANGE OF YIELD ENVIRONMENTS

- Maximizes yield when it rains; increases yield when it doesn’t
- Very good root strength
- Excellent test weight

Rating
Emergence 1 1 1 1 1 1 1 1 1 1
Root Strength 1 1 1 1 1 1 1 1 1 1
Stalk Strength 1 1 1 1 1 1 1 1 1 1
Stays Green 1 1 1 1 1 1 1 1 1 1
Drydown 1 1 1 1 1 1 1 1 1 1
Drought 1 1 1 1 1 1 1 1 1 1

G80Q01-3220A E-Z Refuge Brand
G80Q01-GTA/LL Brand
E080Q1-5122A E-Z Refuge Brand

G85Z56
RM: 85
CONSISTENT PERFORMANCE ACROSS ENVIRONMENTS

- Strong stalks for season-long standability
- Outstanding drought tolerance for consistent yields
- Dependable emergence with excellent seedling vigor

Rating
Emergence 1 1 1 1 1 1 1 1 1 1
Root Strength 1 1 1 1 1 1 1 1 1 1
Stalk Strength 1 1 1 1 1 1 1 1 1 1
Stays Green 1 1 1 1 1 1 1 1 1 1
Drydown 1 1 1 1 1 1 1 1 1 1
Drought 1 1 1 1 1 1 1 1 1 1

G85Z56-5222 E-Z Refuge Brand
G85Z56-3220 E-Z Refuge® Brand

G84J92 Artesian
RM: 86
ELITE GENETICS WITH AGRISURE ARTESIAN TECHNOLOGY

- Maximizes yield when it rains; increases yield when it doesn’t
- Strong stalks and roots for season-long standability
- Superior drought tolerance with heavy test weight

Rating
Emergence 1 1 1 1 1 1 1 1 1 1
Root Strength 1 1 1 1 1 1 1 1 1 1
Stalk Strength 1 1 1 1 1 1 1 1 1 1
Stays Green 1 1 1 1 1 1 1 1 1 1
Drydown 1 1 1 1 1 1 1 1 1 1
Drought 1 1 1 1 1 1 1 1 1 1

G84J92-3120A E-Z Refuge® Brand
G84J92-GTA Brand
G84J92-A Brand (Conv.)
E086J9-5122A E-Z Refuge® Brand

G88F37 Artesian
RM: 88
WESTERN-ADAPTED HYBRID WITH EXCELLENT DROUGHT TOLERANCE

- Maximizes yield when it rains; increases yield when it doesn’t
- Good options for variable soils
- Performs well under a wide range of populations

Rating
Emergence 1 1 1 1 1 1 1 1 1 1
Root Strength 1 1 1 1 1 1 1 1 1 1
Stalk Strength 1 1 1 1 1 1 1 1 1 1
Stays Green 1 1 1 1 1 1 1 1 1 1
Drydown 1 1 1 1 1 1 1 1 1 1
Drought 1 1 1 1 1 1 1 1 1 1

G88F37-3120A-LL E-Z Refuge® Brand
**G89A09**

**EXCITING YIELD WITH BROAD ADAPTATION**

- Excellent emergence and seedling vigor for a fast start
- Moderate stature with strong roots and stalks
- Superb staygreen and late-season plant health

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**Rating**

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<th>Emergence</th>
<th>Root Strength</th>
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**G89A09-5122 E-Z Refuge Brand**

**G89A09-3120 E-Z Refuge Brand**

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**G91V51 Artesian**

**DOMINATING PERFORMANCE WITH AGRISURE ARTESIAN TECHNOLOGY**

- Maximizes yield when it rains; increases yield when it doesn’t
- Strong emergence and seedling vigor for a fast start
- Broad adaptation across all soils and yield environments

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**Rating**

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**G91V51-3110A Brand**

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**G90Y04 Artesian**

**EXCITING YIELD LEVELS PAIRED WITH AGRISURE ARTESIAN TECHNOLOGY**

- Maximizes yield when it rains; increases yield when it doesn’t
- Superb stalk strength for ease of harvest
- Very good staygreen and drydown

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**Rating**

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**G90Y04-5222A E-Z Refuge Brand**

**G90Y04-3220A E-Z Refuge Brand**

**G90Y04-GTA/LL Brand**

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**G94P48 Artesian**

**AGRISURE ARTESIAN TECHNOLOGY PROVIDES CONSISTENT YIELD POTENTIAL**

- Maximizes yield when it rains; increases yield when it doesn’t
- Excellent stalks and roots for season-long standability
- Superb drydown for a flexible harvest schedule

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**Rating**

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**G94P48-5122A-LL E-Z Refuge Brand**

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“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
G95D32

DIVERSE GENETICS WITH EXCITING YIELD PERFORMANCE

- Broad adaptation across yield environments
- Superb stalks for season-long standability
- Solid agronomics for continuous corn acres

G95D32-3220 E-Z Refuge Brand
G95D32-GL/LL Brand
E95D32-5122 E-Z Refuge Brand

G96R61

OUTSTANDING ROOTS AND STALKS FOR SEASON-LONG STANDABILITY

- Exceptional emergence for a fast start in all environments
- Broad adaptation across soils
- Outstanding grain quality with heavy test weight

G96R61-5222 E-Z Refuge Brand

G97N86

EXCELLENT YIELD PERFORMANCE IN HIGH-YIELD ENVIRONMENTS

- Dependable emergence with strong early vigor
- Responds well to high populations
- Superb stalks for season-long standability

G97N86-5222 E-Z Refuge Brand
G97N86-3220 E-Z Refuge Brand

G99E68

TOP-END YIELD POTENTIAL WITH OUTSTANDING ROOTS AND STALKS

- Broad adaptation across soils
- Excellent late-season plant health for season-long standability
- Exceptional performance in poorly drained soils

G99E68-5122 E-Z Refuge Brand

INSIGHTS FROM OUR AGRONOMISTS

Learn more about the exciting performance of 97N86.
G00H12
GREAT YIELD STABILITY ACROSS ENVIRONMENTS

▪ Shorter plant stature with medium ear placement
▪ Strong drought tolerance
▪ Solid stalks and roots for season-long standability

Yield Leader with Broad Adaptation and Yield Stability

G00H12-5122 E-Z Refuge Brand  
G00H12-GT/LL Brand  
E100H1-5122 E-Z Refuge Brand

G02K39
YIELD STABILITY AND PLANT HEALTH FOR CONSISTENT PERFORMANCE

▪ Broadly adapted across soil types and management objectives
▪ Excellent plant health and disease package
▪ Good ear flex provides population flexibility

EXCITING DUAL-PURPOSE HYBRID

G02K39-5122 E-Z Refuge Brand  
G02K39-3129 E-Z Refuge Brand

“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
## CORN AGRONOMIC MANAGEMENT

<table>
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<tr>
<th>PRODUCT</th>
<th>AGRONOMIC MANAGEMENT AND PLACEMENT TRAITS</th>
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<tr>
<td>G01P52</td>
<td>101</td>
<td>F</td>
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<tr>
<td>G02K39</td>
<td>102</td>
<td>F</td>
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<tr>
<td>G03R40</td>
<td>103</td>
<td>F</td>
</tr>
<tr>
<td>G04S19</td>
<td>104</td>
<td>B</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 and are relative to other hybrids within the same maturity group.

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

<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>
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<tr>
<td>280</td>
<td>40,200</td>
<td>36,600 37,100 37,500 37,700 38,000</td>
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<tr>
<td>240</td>
<td>38,500</td>
<td>34,100 34,700 35,100 35,500 35,800</td>
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<td>120</td>
<td>29,700</td>
<td>20,900 21,900 22,700 23,400 23,900</td>
</tr>
</tbody>
</table>

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 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 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.

“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

To order, contact your local Seed Advisor or call 1-800-944-7333 or visit GoldenHarvestSeeds.com
## 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>
<th>Feed Effect On*</th>
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<tbody>
<tr>
<td>Golden Harvest Hybrid Series</td>
<td>Relative Maturity (RM)</td>
<td>Emergence</td>
<td>Root Strength</td>
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<td>104</td>
<td>4 4 3 4 2 2</td>
<td>4 3</td>
<td>B G G G G G</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. Comparisons 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.

### 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/Ton 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/Ton combines the estimate of forage quality (Beef/Ton) and yield (Tons/A) into a single term.

### 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.

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

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

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

*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.*

*Note: These 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. Comparisons 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.*

*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.*

With proven, high-yielding hybrids across a variety of soil conditions, Enogen® corn hybrids may help boost the bottom line for producers of livestock, dairy or ethanol.

**ADDED VALUE IN DAIRY AND BEEF**

- Enogen Feed corn hybrids in dairy operations can increase feed efficiency by an average of 5%. Results released by researchers at a leading university confirmed a 4% increase in ECM feed efficiency (6% uncorrected) — with no negative effect on milk quality parameters or rumen fermentation.

- 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

**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.

---

1University of Nebraska-Lincoln Research Study, 2014.
2Syngenta production data 2012-2017
# 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>
</tr>
</thead>
<tbody>
<tr>
<td>Enogen Hybrid Series</td>
<td>Above/Ground Insect Protection</td>
<td>Relative Maturity (RM)</td>
<td>GDUs to Silk</td>
<td>GDUs to Black Layer</td>
<td>Emergence</td>
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### Heritage Scale
1 = Best
9 = Worst
- = Not available

### Test Weight
1 = High
9 = Low

### Plant Height
1 = Tall
9 = Short

### Root Type
P = Penetrating
M = Modified
F = Fibrous

### Ear Flex
F = Flex
SF = Semi-Flex
SD = Semi-Determine
D = Determine

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

### Husk Cover
S = Short
M = Medium
L = Long

### Cob Color
R = Red
Pi = Pink
W = White

### Disease Tolerance
Agrisure Artesian
Northern Corn Leaf Blight
Goss's Wilt
Anthracnose Stalk Rot
Fusarium Crown Rot

Fusarium Crown Rot

### Enogen Hybrids with Agrisure Duracade® 5122 trait stack

### Enogen Hybrids with Agrisure® 3000GT trait stack or Agrisure Artesian® 3011A trait stack

#### HERBICIDE TOLERANCE

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<td>x</td>
</tr>
</tbody>
</table>

### EXPERIENCE THE ENOGEN EFFECT

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

**E080Q1 Artesian**  
RM: 80

**CONSISTENTLY PERFORMS ACROSS A WIDE RANGE OF YIELD ENVIRONMENTS**

- Maximizes yield when it rains; increases yield when it doesn’t
- Very good root strength
- Excellent test weight

**RATING**

- **Emergence**: 0 7 5 3 1
- **Root Strength**: 0 7 5 3 1
- **Stalk Strength**: 0 7 5 3 1
- **Staysgreen**: 0 7 5 3 1
- **Drydown**: 0 7 5 3 1
- **Drought Season Long Protection**: 0 7 5 3 1

E080Q1-5122A E-Z Refuge Brand

---

**E086J9 Artesian**  
RM: 86

**ELITE GENETICS WITH AGRISURE ARTESIAN TECHNOLOGY**

- Maximizes yield when it rains; increases yield when it doesn’t
- Strong stalks and roots for season-long standability
- Superior drought tolerance with heavy test weight

**RATING**

- **Emergence**: 0 7 5 3 1
- **Root Strength**: 0 7 5 3 1
- **Stalk Strength**: 0 7 5 3 1
- **Staysgreen**: 0 7 5 3 1
- **Drydown**: 0 7 5 3 1
- **Drought Season Long Protection**: 0 7 5 3 1

E086J9-5122A E-Z Refuge Brand

---

**E092T4**  
RM: 92

**TOP-END YIELD POTENTIAL WITH BROAD ADAPTATION**

- Superior grain yields across changing soil types
- Very good drought tolerance and drydown
- Great dual-purpose silage option

**RATING**

- **Emergence**: 0 7 5 3 1
- **Root Strength**: 0 7 5 3 1
- **Stalk Strength**: 0 7 5 3 1
- **Staysgreen**: 0 7 5 3 1
- **Drydown**: 0 7 5 3 1
- **Drought**: 0 7 5 3 1

E092T4-3000GT Brand

---

**E095D3**  
RM: 95

**DIVERSE GENETICS WITH EXCITING YIELD PERFORMANCE**

- Broad adaptation across yield environments
- Superb stalks for season-long standability
- Solid agronomics for continuous corn acres

**RATING**

- **Emergence**: 0 7 5 3 1
- **Root Strength**: 0 7 5 3 1
- **Stalk Strength**: 0 7 5 3 1
- **Staysgreen**: 0 7 5 3 1
- **Drydown**: 0 7 5 3 1
- **Drought**: 0 7 5 3 1

E095D3-5122 E-Z Refuge Brand

---

**E101P5 Artesian**  
RM: 101

**EXCITING YIELD LEVELS PAIRED WITH AGRISURE ARTESIAN TECHNOLOGY**

- Maximizes yield when it rains; increases yield when it doesn’t
- Well suited to continuous corn environments
- Dependable stalks with superior late-season plant health

**RATING**

- **Emergence**: 0 7 5 3 1
- **Root Strength**: 0 7 5 3 1
- **Stalk Strength**: 0 7 5 3 1
- **Staysgreen**: 0 7 5 3 1
- **Drydown**: 0 7 5 3 1
- **Drought Season Long Protection**: 0 7 5 3 1

E101P5-3011A Brand

---

**E105T1**  
RM: 105

**EXCELLENT TOP-END YIELD WITH STRONG AGRONOMICS TO MAXIMIZE GROWER PRODUCTIVITY**

- Adapted to continuous corn acres
- Fantastic late-season plant health and stalk strength allow movement south of zone
- Good drought tolerance allows for flexible placement on soil types

**RATING**

- **Emergence**: 0 7 5 3 1
- **Root Strength**: 0 7 5 3 1
- **Stalk Strength**: 0 7 5 3 1
- **Staysgreen**: 0 7 5 3 1
- **Drydown**: 0 7 5 3 1
- **Drought**: 0 7 5 3 1

E105T1-3000GT Brand

---

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

**PRODUCT**

<table>
<thead>
<tr>
<th>Enogen Hybrid Series</th>
<th>Relative Maturity (RM)</th>
<th>Seeding Rate % Adjustment</th>
<th>Adaptation to Soil Types/Yield Environments</th>
<th>END-USE TRAITS</th>
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**Crop 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>
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**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 Trials¹

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

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
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

## Soybean Brands

**Herbicide Tolerant Trait**
- **RR2Y** = Genuity® Roundup Ready 2 Yield®
- **RR2X** = Roundup Ready 2 Xtend®
- **E3** = ENLIST E3®
- **LL** = Liberty Link®
- **LL/GT27** = Liberty Link® GT27™

**Relative Maturity (RM)**
- S007-Y4: 0.05
- GH0629X: 0.06
- GH0833E3: 0.08
- GH0866: 0.08
- GH0145X: 0.1
- GH0294E3: 0.2
- GH0325E3: 0.3
- GH0339X: 0.3
- GH0391: 0.3
- GH0443X: 0.4
- GH0543X: 0.5
- GH0581E3: 0.5
- GH0670L: 0.6
- GH0715E3: 0.7
- GH0749X: 0.7
- GH0801X: 0.8
- GH0936X: 0.9
- GH0957L: 1.0
- GH1012E3: 1.0
- GH1227L: 1.1
- GH1227LG: 1.2
- GH1317X: 1.3
- GH1362E3: 1.3
- GH1414X: 1.4
- GH1557E3: 1.5
- GH1619X: 1.6
- GH1627LG: 1.6
- GH1638X: 1.6
- GH1638E3: 1.6
- GH1763E3: 1.7
- GH1827LG: 1.8
- GH1915X: 1.9
- GH1944E3: 1.9
- GH1955E3: 1.9
- GH2011E3: 2.0
- GH2041X: 2.0

**Canopy/Plant Type**
- T = Tall
- M = Medium
- MT = Medium-Thin
- B = Bush
- MB = Medium-Bush
- S = Short
- IND = Indeterminate
- DET = Determinate

**Flower Color**
- PUR = Purple
- GR = Gray
- BR = Brown
- BF = Buff
- TN = Tan
- TW = Tawny

**Pod Color**
- WH = White
- YEL = Yellow

**Hilum Color**
- IMY = Imperfect Yellow
- IMB = Imperfect Black

**Green Stem Rating**
- F = Fair
- G = Good
- B = Best

**Adaptation to Soil Types/ Yield Environments**
- B = Best
- G = Good
- F = Fair
- P = Poor
- - = Not available

**Drought Prone**
- B = Best
- G = Good
- F = Fair
- P = Poor

**High pH**
- B = Best
- G = Good
- F = Fair
- P = Poor

**Highly Productive**
- B = Best
- G = Good
- F = Fair
- P = Poor

**Poorly Drained**
- B = Best
- G = Good
- F = Fair
- P = Poor

**Sulfentrazone Responses**
- B = Best
- G = Good
- F = Fair
- P = Poor

**Metribuzin**
- B = Best
- G = Good
- F = Fair
- P = Poor

**NOTE:** E3 product descriptions and ratings are sourced from the variety’s genetic supplier and may change as additional data are gathered.

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

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### Disease/Pest Ratings

#### Phytophthora Field Tolerance

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<th>Soybean Cyst Nematode (SCN)</th>
<th>R = Resistant</th>
<th>MR = Moderately Resistant</th>
<th>S = Susceptible</th>
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<tr>
<td>3 and/or 14 = Specific race of soybean cyst nematode</td>
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#### Soybean Brands

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#### Resistance Rating System

-抵抗到特定疾病或害虫。对于Soybean Cyst Nematode (SCN)来说，导致 TA的结果表明该作物对指定的SCN是抗性的，当可用时。对于Phytophthora，确定抗性后，该基因的表达情况是列表。
**SOYBEANS**

**GH00629X BRAND**  
**EXCEPTIONAL YIELD POTENTIAL FOR A MID GROUP 00**

- Great standability for easier harvest
- Solid Sclerotinia White Mold tolerance
- Works well when used as an early season product

<table>
<thead>
<tr>
<th>Rating</th>
<th>Emergence</th>
<th>Standability</th>
<th>Phytophthora Field Tolerance</th>
<th>Sudden Death Syndrome</th>
<th>Sclerotinia White Mold</th>
<th>Iron Deficiency Chlorosis</th>
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**GH00833E3 BRAND**  
**EARLY VARIETY WITH SCN RESISTANCE**

- Strong performance in high yield environments
- Solid stress tolerance
- Very good tolerance to Iron Deficiency Chlorosis

<table>
<thead>
<tr>
<th>Rating</th>
<th>Emergence</th>
<th>Standability</th>
<th>Phytophthora Field Tolerance</th>
<th>Sudden Death Syndrome</th>
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**GH0145X BRAND**  
**EARLY YIELD LEADER WITH STRONG AGRONOMICS FOR THE WHOLE FARM**

- Broadly adapted across soil types with best performance on fine textured soils
- Very good Iron Deficiency Chlorosis tolerance
- Excellent defense against Phytophthora Root Rot

<table>
<thead>
<tr>
<th>Rating</th>
<th>Emergence</th>
<th>Standability</th>
<th>Phytophthora Field Tolerance</th>
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**GH0294E3 BRAND**  
**STRONG AGRONOMICS FOR THE NORTHERN ACRE**

- Rps3a with strong field tolerance to Phytophthora Root Rot
- Solid tolerance to Iron Deficiency Chlorosis
- Very good standability

<table>
<thead>
<tr>
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<th>Phytophthora Field Tolerance</th>
<th>Sudden Death Syndrome</th>
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**GH0325E3 BRAND**  
**EXCELLENT YIELD FOR MATURITY**

- SCN protection in an early bean
- Adapted to all row widths
- Performed in and out of the Red River Valley

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**GH0443X BRAND**  
**COMBINES SCN RESISTANCE WITH OUTSTANDING TOLERANCE TO IRON DEFICIENCY CHLOROSIS**

- Excellent standability with a uniform plant height
- Broadly adapted with strong performance in all yield environments
- Great tolerance to Sclerotinia White Mold

<table>
<thead>
<tr>
<th>Rating</th>
<th>Emergence</th>
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<th>Phytophthora Field Tolerance</th>
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</table>

To order, contact your local Seed Advisor or call 1-800-944-7333 or visit GoldenHarvestSeeds.com
GH0543X BRAND

EXPECT BIG YIELDS WITH GREAT HARVESTABILITY

- Unique Rps1c/3a stack protects against Phytophthora Root Rot
- Strong tolerance to Sclerotinia White Mold
- Broadly adapted across soil types

GH0715E3 BRAND

STRONG YIELD POTENTIAL FOR MATURITY

- SCN protection with very good tolerance to Iron Deficiency Chlorosis
- Rps3a with solid field tolerance to Phytophthora Root Rot
- Good drought stress tolerance

GH0913E3 BRAND

GREAT COMBINATION OF OFFENSE AND DEFENSE

- Moderate-sized plant with very good standability
- Consistent yields across environments
- Above-average Sclerotinia White Mold tolerance

GH0581E3 BRAND

OUTSTANDING TOLERANCE TO IRON DEFICIENCY CHLOROSIS

- Above-average tolerance to Sclerotinia White Mold
- Solid standability
- Strong performance in low yield environments

GH0749X BRAND

SOLID AGRONOMICS WITH SCN RESISTANCE

- Strong tolerance to Iron Deficiency Chlorosis
- Stands well with dependable Sclerotinia White Mold tolerance
- Rps1c gene with solid field tolerance to Phytophthora Root Rot

GH0936X BRAND

STRONG YIELD POTENTIAL WITH AN RPS1K/3A GENE STACK FOR PHYTOPHTHORA

- Good choice for high pH soils
- Well rounded agronomic package allows broad placement
- Excels in Western environments
**GH1012E3Brand**  
**NEW / RM: 1.0**  
**BIG YIELD POTENTIAL IN AN ENLIST TRAIT PACKAGE**
- Very good tolerance to Iron Deficiency Chlorosis
- Good tolerance to Sclerotinia White Mold
- Strong field tolerance to Phytophthora Root Rot

**GH1225XBrand**  
**NEW / RM: 1.2**  
**AGRONOMIC LEADER WITH STRONG YIELD POTENTIAL**
- Very good field tolerance to Phytophthora Root Rot with the Rps3a gene
- Solid choice for the SCN/IDC acre
- Dependable standability and moderate plant type work well on acres prone to Sclerotinia White Mold

**GH1362E3Brand**  
**RM: 1.3**  
**STRONG PERFORMANCE ACROSS A WIDE GEOGRAPHY**
- SCN protection with very good tolerance to Iron Deficiency Chlorosis
- Rps1c gene with good Phytophthora Root Rot field tolerance
- Medium-bush canopy helps close the row

**GH1414XBrand**  
**NEW / RM: 1.4**  
**OUTSTANDING DISEASE PACKAGE WITH SUPERIOR PERFORMANCE ACROSS ALL YIELD LEVELS**
- Exceptional top-end yield with agronomics to support
- Rps1c gene with excellent field tolerance to Phytophthora
- Very good Sclerotinia White Mold tolerance and standability

**GH1557E3Brand**  
**NEW / RM: 1.5**  
**NEW AND IMPROVED ENLIST GENETICS**
- Rps1k with strong field tolerance to Phytophthora Root Rot
- Solid standability and tolerance to Sclerotinia White Mold
- Well-suited for high yielding acres

**GH1619XBrand**  
**RM: 1.6**  
**PROVEN GENETICS WITH SCN RESISTANCE**
- Very strong Iron Deficiency Chlorosis tolerance
- Exceptional performance on high pH soils
- Great choice for medium-to-fine-textured soils

To order, contact your local Seed Advisor or call 1-800-944-7333 or visit GoldenHarvestSeeds.com
GH1638X BRAND  
EXCEPTIONAL PERFORMANCE ACROSS GEOGRAPHIES AND YIELD LEVELS IN PROVEN GENETICS

- Outstanding emergence and early season vigor
- Rps1k/3a Phytophthora gene stack with great field tolerance
- Excellent standability for the highly productive acre

GH1763E3 BRAND  
COMBINES STRONG YIELD WITH AGRONOMICS

- Excellent Sudden Death Syndrome tolerance
- Great standability with strong Sclerotinia White Mold tolerance for the highly productive acre
- Stable performance across environments

GH1915X BRAND  
TOP PERFORMER WITH SEASON-LONG STANDABILITY

- Compact stature suited for narrow rows and highly productive fields
- Solid SDS tolerance allows early planting
- Good Iron Deficiency Chlorosis tolerance

GH1955E3 BRAND  
YIELD IMPROVEMENT ON THE ENLIST TRAIT PLATFORM

- Strong tolerance to Sclerotinia White Mold
- Very good field tolerance to Phytophthora Root Rot
- SCN resistance with good tolerance to Iron Deficiency Chlorosis

GH2011E3 BRAND  
GREAT DISEASE PACKAGE WITH STRONG PERFORMANCE ACROSS A WIDE GEOGRAPHY

- Excellent SDS tolerance
- Rps1c/3a stack with excellent field tolerance to Phytophthora Root Rot
- Great row spacing flexibility

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
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

CruiserMaxx Vibrance Beans is an on-seed application of CruiserMaxx Vibrance alone or with Apron XL.
**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.

**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.

**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.

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

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**Agrisure**

**Duracade**

5222A E-Z Refuge®

---

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 0 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.**
  - Note: Insect categories are in alphabetical order
- **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.
**GOLDEN HARVEST CORN**

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

**G10L16 Artesian**

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

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

**Trait versions available in this hybrid series.**

---

**ENOGEN CORN**

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

**E109Y2 Artesian**

**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

**Trait versions available in this hybrid series.**

---

**GOLDEN HARVEST SOYBEANS**

**Soybean Brand**

**GH2788X**

**DOMINANT PERFORMANCE ON ALMOST EVERY ACRE**

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

**Herbicide tolerance and other traits**

---

**HYBRID & VARIETY KEYS**

**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.

**RM:** Specific relative maturity for this hybrid series.

- **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.

**NEW:** Indicates hybrid series or hybrid trait versions new for 2021.

**ENOGEN CORN**

- Relative maturity number
- Randomly designated letter and number(s)

**RM:** Specific relative maturity for this hybrid series.

- **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.

**NEW:** Indicates hybrid series or hybrid trait versions new for 2021.

**GOLDEN HARVEST SOYBEANS**

**Soybean Brand**

**RM:** 2.7: Specific relative maturity for this variety.

- **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.

**NEW:** Indicates hybrid series or hybrid trait versions new for 2021.

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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>Agrisure 3000GT</td>
<td>20%</td>
<td>50%</td>
</tr>
<tr>
<td>Agrisure Artesian*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agrisure Viptera*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agrisure 3120*</td>
<td>E-Z Refuge—no additional refuge required</td>
<td></td>
</tr>
<tr>
<td>Agrisure 3122*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agrisure Duracade*</td>
<td>20% supplemental refuge</td>
<td></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.

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.
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/


Some seed treatment offers are separately registered products applied to the seed as a combined slurry. Always read individual product labels and treater 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. 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/

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