

**2022**

**SEED  
GUIDE**



**SOYBEANS**

**CORN**

**ENOGEN®**



# WE'RE LISTENING

## Our Promise

To work and listen with intention, helping farmers find threats, opportunities and custom solutions for every acre.

## Our Story

We believe there is a better solution to be found in every field, and finding it starts with first listening to you—the farmer. We share the keen sense of detail it takes to understand every facet of an operation and make each season a success.

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“MOS OF OUR SEED ADVISORS ARE FARMERS THEMSELVES. THIS GIVES US A DIRECT CONDUIT TO WHAT IS HAPPENING IN THE FIELD FROM THOSE LIVING IT EVERY DAY. BY LISTENING TO OUR SEED ADVISORS AND OUR FARMER CUSTOMERS WE ARE ABLE TO ADAPT AND EVOLVE QUICKLY TO STAY RELEVANT IN A FAST-CHANGING INDUSTRY.”

-Dave Young, Head, Golden Harvest Marketing

## Our Seed Guide is Just That – A Guide

Because the acres and conditions unique to each farmer are what determine the best placement and results. Consider this your best accessory to optimal yield potential, and consider Golden Harvest® seeds the best choice for your fields now and, more importantly, your vision for the future.



# SERVICE 365



Service 365 is our year-round commitment to doing whatever it takes to optimize yields in each farmer's field conditions. From locally proven product recommendations to in-season advice to harvest insights, we deliver a service experience that yields results.

Our six-phase commitment below sets priorities and guides which agronomic insights, E-luminate technologies and field monitoring farmers may need to make the best data-driven decisions. But it all starts with listening, because Golden Harvest is here to tailor our recommendations and tools to you—not the other way around.



**"GOLDEN HARVEST HAS VARIETIES TO FIT YOUR ACRES AND THE EXPERTISE TO PLACE THEM FOR SUCCESS. WE ARE PASSIONATE ABOUT HELPING FARMERS BE MORE PROFITABLE."**

-Andy Lee, Head, Golden Harvest East Commercial Unit

## 01 Season Prep

## 02 Establishment

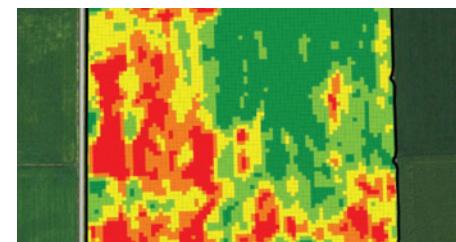
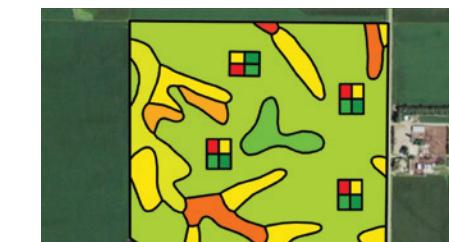
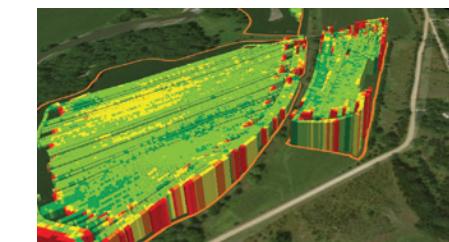
## 03 Plant Growth

## 04 Yield Potential

## 05 Harvest Prep

## 06 Harvest–Post-Harvest

Experience insights on the go with E-luminate. Each feature within our digital agronomy platform is designed with intention, allowing greater visibility to see what you may need and when you need to see it in your fields. Our Seed Advisors make the difference in turning this data into yield potential by compiling, analyzing and uploading data and insights into E-luminate for you.



### Planning

#### GAME PLAN

- > Field x Field Proposals
- > Auto Rate Assignments
- > Customized Product Information

#### RANGEFINDER

- > Variable Rate Scripts for Soy and Corn

### In-Season

#### E-LUMINATE DIGITAL AGRONOMY PLATFORM MOBILE APP

- > Scouting
- > Weather Data

#### MACHINE DATA

- > Planting Data

#### GRAIN COUNT APP

- > Use your cell phone to take a photo of corn to get yield projections

### Harvest

#### HARVEST PRIORITY

- > Prioritizes fields by hybrid to help develop a pre-harvest plan

#### MACHINE DATA

- > Yield Data

**"THE 2022 LINEUP IS COMPLETELY FOCUSED ON OUR CUSTOMERS' NEEDS. YIELD, RETURN-ON-INVESTMENT, PERFORMANCE, AGRONOMICS, CHOICE AND EASE OF DOING BUSINESS. WE HEAR YOU, AND OUR CUSTOMER-OBSSESSED APPROACH IS DEDICATED TO DELIVERING."**

-Nick Frohardt, Head, Golden Harvest West Commercial Unit

# OUR R&D COMMITMENT

From our expert-packed U.S. research centers to the more than \$1.4 billion we invest annually in research and development—No. 2 globally in R&D spend—we take everything our teams hear from farmers and see in the field to develop the solutions farmers need and commercialize them as quickly as possible. Syngenta is investing \$400 million in our North American Seeds business to drive the balanced synchronization of speed, precision and power.



**\$1.4B**  
R&D Annual Investment

**5K+**  
Global R&D Employees

## More Speed

### TRAIT INTROGRESSION ACCELERATION

- > New \$45 million corn-focused facility in Nampa, Idaho
- > Trait conversion accelerator infrastructure enables Syngenta to rapidly bring market-leading corn traits to market using controlled environment growth spaces and state-of-the-art processes
- > Soy-focused facility in Clinton, Illinois, is the industry's first large-scale facility of this type
- > Aims to get new traits into high-performing germplasm as rapidly as possible, moving to field trials in record time
- > Optimized seed testing and development to shorten the path to commercial varieties to as little as three years from the typical six-to-seven years
- > How we're able to bring options like Enlist E3® soybean varieties to market faster than almost anyone else in the industry without ever taking risks on product performance

### HI-EDIT™ TECHNOLOGY

- > Proprietary and revolutionary method will improve speed to market without sacrificing precision or quality, shortening the trait introgression process
- > Tim Kelliher, Ph.D., of Syngenta discovered the haploid inducer gene, H-I or HI gene, which makes the method possible
- > With HI-Edit Technology, we've blended both gene editing and doubled haploid breeding methods, allowing us to edit hundreds of hybrid lines faster and getting new traits into our strong, proprietary genetics even faster

## More Precision

### STALK CRUSHER

- > Stalk Crusher tests the density of every corn stalk on every test plot at all 300+ of our research sites, collecting 20x more

data compared to traditional testing, bringing stronger corn products—with greater predictability—to market faster

- Other seed companies manually count only downed corn, and in only a portion of their test plots
- > State-of-the-art sensors measure the force needed to take down stalks during harvest
- > This allows us to collect countless data points, leading to greater accuracy for genetic testing and the ability to bring stronger corn products to market faster

## More Power

- > Golden Harvest is committed to farmer collaboration in finding threats, opportunities, and custom solutions for every acre, leveraging the power of Syngenta Seeds R&D
  - By inviting farmers to see and participate in the process at our labs, growing chambers and in-field trials, we're able to collaborate to fuel more timely and relevant innovations
- > Syngenta Innovation Center at Research Triangle Park (RTP), North Carolina
  - Syngenta scientists stimulate various growing environments, including 50 acres of state-of-the-art greenhouses, to aid in the discovery and development of biotech seed technologies

## More to Come

- > R&D Innovation and Customer Experience Center in Malta, Illinois
  - Brings together the best researchers, scientists and farmers from across the country for on-farm collaboration
  - An ideation center that will test new decision science concepts that stem from the needs of our farmer customers
- > Syngenta's Farm of the Future in Ottawa, Illinois
  - Serving as an incubator for concepts coming out of the Customer Experience Center, its sole purpose is to determine whether a concept can scale up to commercial level and bring farmers the value they are looking for (or vice versa) or needs to be pulled back for additional research
  - 152 acres managed by Syngenta employees



 Syngenta  
Seed-to-Seed



 HI-Edit  
Technology



 Stalk Crusher

# AGRONOMY

Strong agronomics are at the core of the Golden Harvest brand. Our agronomists and Golden Harvest Seed Advisors listen and record actionable data and local insights to precisely place products for maximum performance in your fields. With a year-round commitment to taking in every facet of your farm and doing whatever it takes to optimize yield potential in your field conditions, our team helps you manage your corn and soybean crops throughout the season—giving you the most out of every acre.



## Seeding Rate Online Tool \*

### YIELD ENVIRONMENT

- > Optimum seeding rates increase as yield potential increases. The penalty associated with choosing the incorrect seeding rate also increases at higher yield environments.

### HYBRID RESPONSE

- > The yield response to increasing or decreasing seeding rates differs considerably among hybrids. Golden Harvest evaluates each hybrid's seeding response at multiple trialing locations each year for two or more years to help fine-tune field recommendations by yield environments.

### ECONOMIC FACTORS

- > The optimum seeding rate for maximizing return will be slightly lower than the highest yielding seeding rate. The optimum economic seeding rate will also go up or down with commodity prices. Increases in seed cost will reduce the economic optimum, although cost influences seeding rate much less than other factors.

## Agronomy Book Experts ↗

The Golden Harvest Agronomy in Action Research Review offers expert insights and research on corn and soybean development, disease management and cultivating a better harvest in your fields. Our Agronomy Team experts specialize in listening to every cue and detail in your area and the industry, then recommending the best custom solutions for your fields and conditions.

“GOLDEN HARVEST PROVIDES GROWERS WITH INDUSTRY-LEADING AGRONOMIC INSIGHTS THROUGH OUR INDUSTRY-LEADING AGRONOMY IN ACTION INFORMATION AND RESEARCH. LOOK TO GOLDEN HARVEST FOR TIMELY AND CUTTING-EDGE AGRONOMY INFORMATION.”

-Dave Schlake, Golden Harvest  
Agronomy Lead



“THE GOLDEN HARVEST AGRONOMY TEAM IS COMMITTED TO YOU AND YOUR OPERATION'S SUCCESS. WHETHER IT BE PRODUCT KNOWLEDGE AND RECOMMENDATIONS OR BROAD BASED AGRONOMIC ADVICE, WE STAND READY, WILLING AND ABLE TO HELP YOU NAVIGATE THE UPCOMING GROWING SEASON AND ENSURE OUR SUCCESS ON YOUR FARM.”

-Steve Wilkens, Golden Harvest Agronomy Lead

# SOYBEANS

Golden Harvest  
Delivers  
High-Performing  
Soybeans



Extensive testing leads to proven performance in our soybean varieties. We get new traits into high-performing soybean germplasm as quickly as possible, so that varieties can move to field trials in record time. It's how we brought Enlist E3 soybeans to market faster than almost anyone else in the industry and have accelerated our process to deliver new varieties three years faster than the typical six- to seven-year timeline, without sacrificing product performance. We specialize in speed, precision and testing, ensuring farmers get the performance they expect.

## Golden Harvest Gold Series™

Gold Series soybeans from Golden Harvest are specifically bred and selected for our soybean portfolio. We've taken the time to perfect our germplasm then combine it with in-demand Enlist E3 soybeans and XtendFlex® traits to bring products that give farmers the confidence in lasting performance. By combining our R&D innovation with new traits into our high-performing germplasm, we deliver a Gold Series portfolio of soybean solutions that put our farmers' yield potential first.

\*NEW\*



**GOLD**  
SERIES™

Your choice of industry-leading traits for superior weed control



- > Elite genetics with strong yield potential and agronomics
- > The Enlist E3 soybean trait allows farmers to use Enlist® herbicides with confidence and better on-target results than traditional 2,4-D products



- > The next generation of elite Golden Harvest soybean genetics
- > Provides tolerance to dicamba, glyphosate and glufosinate to help manage tough weeds and protect yield potential



- > Broad portfolio of elite Golden Harvest soybean genetics combined with advanced trait technology that offers tolerance to both dicamba and glyphosate herbicides



- > Strong yield potential and agronomics
- > In-season glyphosate and glufosinate applications

**“ENLIST E3 SOYBEAN WEED MANAGEMENT IS SECOND TO NONE. AT THE END OF THE DAY, IT IS A GREAT PROGRAM AND IT WORKS. IT FLAT-OUT KILLS WEEDS.”**

-Mark Donnell, Golden Harvest Soybean Farmer, Mattoon, IL

# SOYBEAN SEED TREATMENTS

## Helping Crops Reach 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 and improve crop yield potential and performance in both corn and soybeans.



+4 BU/A  
Yield Improvement



Improved Disease Control



## Golden Harvest Preferred Seed Treatments

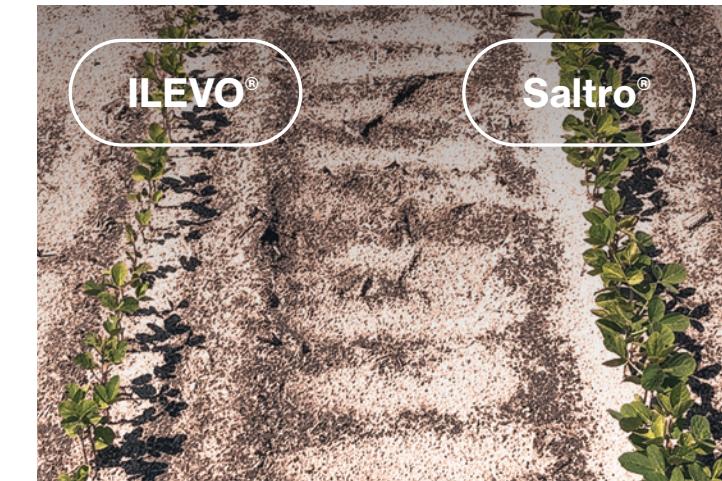
- > Delivers customized soybean seed protection with improved disease control and handling properties
- > Contains an enhanced rate of Apron XL® fungicide seed treatment for superior protection of seed- and soilborne diseases such as Pythium and early-season Phytophthora
- > With unique polymers that 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® seed treatment 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 control 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 fungicide seed treatment

## 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



Why Saltro

# SOYBEAN CHARACTERISTICS

PRODUCT		AGRONOMIC/PLANT CHARACTERISTICS*														GRAIN QUALITY*		DISEASE/PEST*										PRODUCT																																																																																																																																																							
Golden Harvest Soybean Brands	Herbicide Tolerant Traits	Relative Maturity (RM)	Emergence	Canopy/Plant Type	Plant Height	Growth Habit	Standability	Narrow Row	Wide Row	Flower Color	Pubescence Color	Pod Color	Hilum Color	Chloride Sensitivity	Green Stem Rating	Adaptation to Soil Types/ Yield Environments			Herbicide Responses		% Protein @13% mst.	% Oil @13% mst.	Phytophthora Root Rot		Soybean Cyst Nematode		Southern Stem Canker	Root Knot Nematode-Inognita	Iron Deficiency Chlorosis (IPC)	Brown Stem Rot (BSR)	Soybean White Mold (SWM)	Pod & Stem Blight (PSB)	Sudden Death Syndrome (SDS)	Frogeye Leaf Spot (FELS)	Soybean Brands																																																																																																																																																
GH00629X	RR2X	0.06	3 M MS IND 2 1 2 PUR LTW BR BR INC 1	F F B G G B B B B B B	34.6 19.1 Rps1c 3 S S - - - 4 3 3 6 - - GH00629X	GH00833E3	E3	0.08	3 MT M IND 4 1 2 PUR GR BR BF - -	B G B B B G G B B G G	33.7 18.8 Rps1a 4 PI88788 MR3 - - - 3 2 6 4 - - GH00833E3	GH00982XF NEW●	XF	0.09	3 M M IND 2 1 2 PUR LTW TN BL INC 1	G G B B G G B B G G G	34.4 18.4 Rps1c 3 PI88788 MR3 1 - - 3 3 3 3 5 2 - - GH00982XF NEW●	GH0145X	RR2X	0.1	3 M MT IND 3 1 2 PUR LTW TN BL INC 2	G G B G G B G G B B B	34.7 18.0 Rps1c 2 S S 1 - - 3 3 3 5 2 - - GH0145X	GH0294E3	E3	0.2	3 M M IND 3 1 2 PUR GR TN BF - -	G G F B G G G B B B	34.7 17.9 Rps3a 3 PI88788 MR3 1 - - 3 3 3 5 2 - - GH0294E3	GH0272XF NEW●	XF	0.2	3 M MT IND 2 1 2 PUR LTW TN BL INC 2	G G B B G G G B B B	34.9 18.3 Rps1c 3 PI88788 MR3 1 - - 3 3 3 5 2 - - GH0272XF NEW●	GH0325E3	E3	0.3	3 M M IND 4 2 2 WH GR TN BF - -	G G G B G G F B B	33.9 18.2 Rps1c 4 PI88788 MR3 - - - 3 5 5 6 - - GH0325E3	GH0308X	RR2X	0.3	3 M MS IND 2 1 2 PUR LTW TN IMY INC 2	F F G G G G B B B	34.7 18.1 Rps1c, Rps3a 4 S S - - - 4 3 3 4 - - GH0308X	GH0452E3 NEW●	E3	0.4	3 MB MS IND 4 2 2 PUR GR BR YEL INC -	B B P G G G B B G	38.1 17.1 Rps1c, Rps3a 3 S S - - - 2 3 4 5 - - GH0452E3 NEW●	GH0443X	RR2X	0.4	3 M MS IND 2 1 2 PUR LTW TN BL EXC 2	B B G G G G B B G	35.5 18.4 Rps1c 4 PI88788 MR3 1 - - 2 3 2 4 2 - - GH0443X	GH0593E3	E3	0.5	3 M M IND 4 2 1 PUR GR TN BF - -	F G F G G G G G G	33.9 18.5 Rps3a 3 PI88788 MR3, MR14 - - - 3 3 7 - - GH0593E3	GH0502XF NEW●	XF	0.5	3 M M IND 3 2 1 PUR LTW TN IMY INC 1	B F F G G B B B F	35.3 17.4 Rps1c 3 PI88788 MR3 1 - - 4 5 4 5 4 - - GH0502XF NEW●	GH0543X	RR2X	0.5	2 M MS IND 2 1 3 PUR LTW TN BR INC 2	G F B G G G B B B	33.7 18.6 Rps1c, Rps3a 3 S S - - - 4 3 3 2 - - GH0543X	GH0715E3	E3	0.7	3 M MS IND 4 2 1 PUR GR BR BF - -	B G B G G G B B B	34.2 18.8 Rps3a 3 PI88788 MR3 - - - 3 3 5 3 3 4 - - GH0715E3	GH0749X	RR2X	0.7	3 M M IND 2 2 2 PUR LTW TN BL INC 2	F G B G G B B B B	36.1 18.1 Rps1c 3 PI88788 MR3 1 - - 3 5 3 3 3 4 - - GH0749X	GH0842E3 NEW	E3	0.8	2 M M IND 2 1 2 PUR GR TN BF EXC -	- - - - - - - -	- - - S 4 PI88788 R3, MR14 - - - 3 - - - GH0842E3 NEW	GH0822XF NEW●	XF	0.8	3 MB MT IND 3 2 1 PUR LTW TN BR INC 3	B G F G G B B G	34.5 17.2 Rps1c 3 PI88788 R3 1 - - 3 4 4 5 3 3 - - GH0822XF NEW●	GH0936X	RR2X	0.9	3 M MS IND 4 1 2 PUR LTW TN BR INC 2	G G G G G G B B B	33.9 19.1 Rps1k, Rps3a 3 S S - - - 3 3 4 4 4 3 - - GH0936X	GH1012E3	E3	1.0	2 MB M IND 2 2 1 PUR GR BR GR EXC 3	F F F B F B F	36.3 17.4 Rps1c 4 PI88788 R3, MR14 - - - 4 4 4 3 2 - - GH1012E3	GH1032XF NEW●	XF	1.0	3 M M IND 3 2 1 PUR LTW TN IMY INC 2	B G F G G G B B G	35.4 17.5 Rps1c 3 PI88788 R3 1 - - 3 5 4 3 3 2 - - GH1032XF NEW●	S12-R3	RR2Y	1.2	3 M M IND 2 3 2 PUR LTW TN BL EXC 3	G B B G G G B B B	36.1 18.3 Rps1c 4 PI88788 R3, MR14 - - - 2 2 2 4 3 - - S12-R3	GH1362E3	E3	1.3	3 MB M IND 3 2 1 PUR GR TN IMB INC -	G G B G G G B B B	35.2 17.9 Rps1c 4 PI88788 MR3, MR14 - - - 3 3 5 4 4 4 - - GH1362E3	GH1317X	RR2X	1.3	3 M M IND 2 1 2 PUR LTW BR BL INC 3	G F B G G B G G G	34.0 19.4 Rps1c, Rps3a 2 S S - - - 4 5 3 4 6 - - GH1472E3 NEW●	GH1442XF NEW●	XF	1.4	3 M MS IND 3 1 2 PUR GR TN BF EXC 1	G F B B B B G G B	34.4 18.2 Rps1c, Rps3a 3 Peking MR1, R3, MR5 1 - - 4 3 4 5 4 4 - - GH1472E3 NEW●	GH1414X	RR2X	1.4	3 MT MT IND 2 1 2 PUR LTW BR BR INC 2	G G B G G G B B B	34.7 18.1 Rps1c 2 PI88788 MR3 1 - - 3 3 3 2 4 2 - - GH1442XF NEW●	GH1627LG	LL/GT27	1.6	3 M M IND 2 1 2 PUR LTW TN BL INC -	G F G G G G B B B	34.9 18.6 Rps1c 2 PI88788 MR3, MR14 1 - - 3 3 3 2 3 3 - - GH1627LG	GH1763E3	E3	1.7	3 M M IND 2 2 1 WH LTW TN BL INC -	G F G G G G B B B	33.3 19.4 S 3 PI88788 MR3 - - - 4 - 3 3 4 5 2 5 - - GH1763E3	GH1762XF NEW●	XF	1.7	4 M MT IND 2 1 2 PUR LTW BR BR INC 2	G G B B G G G G G	34.8 18.8 S 4 PI88788 MR3 - - - 4 3 3 5 2 3 - - GH1762XF NEW●	GH1802E3 NEW●	E3	1.8	3 M M IND 3 1 1 PUR GR BR IMB INC 2	B F G B G B G B G	34.6 18.7 Rps1c 4 PI88788 MR3 1 - - 3 2 3 4 3 - - GH1802E3 NEW●	GH1922E3 NEW	E3	1.9	2 M MT IND 3 1 1 PUR LTW BR BL - -	- - - - - - - -	34.7 18.4 Rps1c 4 PI88788 R3, MR14 1 - - 3 - 4 - 2 - - GH1922E3 NEW

\*NOTE: A few product descriptions and ratings are sourced from the variety's generic supplier and may change as additional data is gathered.

#### Herbicide Tolerant Traits

E3 = ENLIST E3®

E3/STS = ENLIST E3® and STS®

LL/GT27 = LibertyLink® and GT27™

LL/GT27/STS = LibertyLink®, GT27™ and STS®

RR2X = Roundup Ready 2 Xtend®

RR2X/STS = Roundup Ready 2 Xtend® and STS®

XF = XtendFlex®

XF/STS = XtendFlex® and STS®

RR2Y = Roundup Ready 2 Yield®

#### 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

M = Medium

Protein and Oil

Ratings are based

on two-year averages, except in cases where

only one year of data is available.

Color Abbreviations

BF = Buff

BL = Black

BR = Brown

GR = Gray

IMB = Imperfect Black

IMY = Imperfect Yellow

LTW = Light Tawny

PUR = Purple

TN = Tan

TW = Tawny

WH = White

YEL = Yellow

#### Chloride Sensitivity

INC = Includer

EXC = Excluder

#### Adaptation to Soil Types/ Yield Environments

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), the gene(s) conveying the resistance, race(s) the variety is resistant against, and degree of resistance are specified, when available. For Phytophthora, the gene(s) conveying the resistance and general field tolerance rating are listed.

#### Soybean Cyst Nematode (SCN)

The PI88788, PI89772, and Peking genes confer varying resistances to certain races of SCN. Refer to the "Race Resistances" column for phenotypic (expressed) resistance ratings.

1, 3, 5, and/or 14 = SCN race(s) for which resistance is conferred

R = Resistant

MR = Moderately Resistant

S = Susceptible (no gene-specific resistance)

- = Not Available

#### Phytophthora Gene Resistance

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

Rps1a = Resistant to races 1, 2, 10, 11, 13-18, 24, 26, 27, 31, 32, 36, 38

Rps1c = Resistant to races 1-3, 6-11, 13, 15, 17, 21, 23, 24, 26, 28-30, 32, 34, 36, 38, 44

# SOYBEAN CHARACTERISTICS

Product	Agronomic/Plant Characteristics*														Grain Quality*		Disease/Pest*										Product										
	Adaptation to Soil Types/Yield Environments							Herbicide Responses							Phytophthora Root Rot		Soybean Cyst Nematode		Southern Stem Canker		Root Knot Nematode-Incognita		Iron Deficiency Chlorosis (IDC)		Brown Stem Rot (BSR)		Soybean White Mold (SWM)	Pod & Stem Blight (PSB)	Sudden Death Syndrome (SDS)	Frogeye Leaf Spot (FELS)							
	Herbicide Tolerant Traits	Relative Maturity (RM)	Emergence	Canopy/Plant Type	Plant Height	Growth Habit	Standability	Narrow Row	Wide Row	Flower Color	Pubescence Color	Pod Color	Hilum Color	Chloride Sensitivity	Green Stem Rating	Drought Prone	High pH	Highly Productive	Variable	Poorly Drained	Sulfentrazone	Metrifuron	% Protein @13% mst.	% Oil @13% mst.	Gene Resistance	Field Tolerance	Gene Source	Race Resistances	Southern Stem Canker	Root Knot Nematode-Incognita	Iron Deficiency Chlorosis (IDC)	Brown Stem Rot (BSR)	Soybean White Mold (SWM)	Pod & Stem Blight (PSB)	Sudden Death Syndrome (SDS)	Frogeye Leaf Spot (FELS)	Soybean Brands
Golden Harvest Soybean Brands	Herbicide Tolerant Traits	Relative Maturity (RM)	Emergence	Canopy/Plant Type	Plant Height	Growth Habit	Standability	Narrow Row	Wide Row	Flower Color	Pubescence Color	Pod Color	Hilum Color	Chloride Sensitivity	Green Stem Rating	Drought Prone	High pH	Highly Productive	Variable	Poorly Drained	Sulfentrazone	Metrifuron	% Protein @13% mst.	% Oil @13% mst.	Gene Resistance	Field Tolerance	Gene Source	Race Resistances	Southern Stem Canker	Root Knot Nematode-Incognita	Iron Deficiency Chlorosis (IDC)	Brown Stem Rot (BSR)	Soybean White Mold (SWM)	Pod & Stem Blight (PSB)	Sudden Death Syndrome (SDS)	Frogeye Leaf Spot (FELS)	Soybean Brands
GH1944E3	E3	1.9	3	MT	M	IND	2	2	2	PUR	GR	TN	IMB	EXC	-	F	G	F	G	G	B	B	33.7	19.9	Rps1c	3	PI88788	MR3, MR14	-	-	3	3	5	5	GH1944E3		
GH1932XF NEW●	XF	1.9	2	M	M	IND	3	2	1	PUR	LTW	BR	GR	INC	2	G	G	G	B	G	B	B	36.2	17.5	Rps1c, Rps3a	2	PI88788	MR3	1	-	3	3	5	4	GH1932XF NEW●		
GH1915X	RR2X	1.9	3	M	MS	IND	2	1	2	WH	LTW	BR	BL	-	4	F	F	B	G	G	B	G	34.4	19.7	Rps1c	4	PI88788	R3, MR14	-	-	4	5	3	5	GH1915X		
GH2011E3	E3	2.0	3	M	M	IND	2	1	1	PUR	GR	BR	BF	INC	2	G	F	G	B	G	G	B	35.5	18.5	Rps1c, Rps3a	2	PI88788	MR3	1	-	4	3	4	-	2	4	GH2011E3
GH2041X	RR2X	2.0	3	M	M	IND	2	1	2	WH	LTW	BR	BL	INC	3	G	G	B	B	F	B	B	35.2	18.9	Rps1c	4	PI88788	R3, MR14	1	-	3	5	3	2	5	GH2041X	
GH2027LG	LL/GT27	2.0	3	M	MT	IND	2	2	2	WH	LTW	BR	BR	INC	2	G	F	G	B	G	B	B	-	-	S	4	PI88788	MR3, MR14	-	-	4	-	3	-	2	5	GH2027LG
GH2102XF NEW●	XF	2.1	3	M	M	IND	4	3	1	WH	LTW	BR	BL	INC	2	B	G	G	G	B	B	G	33.6	18.8	Rps1c	3	PI88788	MR3	1	-	3	5	-	4	3	3	GH2102XF NEW●
GH2292E3 NEW●	E3	2.2	3	M	M	IND	3	1	1	PUR	GR	BR	IMB	INC	3	G	F	B	B	B	B	B	33.9	18.4	Rps1c	3	PI88788	MR3	1	-	4	3	4	-	3	-	GH2292E3 NEW●
GH2329X	RR2X	2.3	3	MB	M	IND	3	3	1	WH	LTW	BR	BL	INC	3	G	F	G	G	B	B	B	34.9	19.2	Rps1c	3	PI89772	MR1, MR3	1	-	4	3	4	4	2	4	GH2329X
GH2442E3 NEW●	E3	2.4	2	MT	M	IND	2	2	2	WH	GR	TN	BF	INC	2	F	P	F	G	G	B	B	34.5	18.9	Rps1c, Rps3a	4	PI88788	R3, MR14	1	-	5	3	3	-	3	-	GH2442E3 NEW●
GH2427LG	LL/GT27	2.4	2	MB	M	IND	3	3	1	PUR	LTW	BR	BL	INC	3	B	G	B	B	G	B	B	36.1	19.7	S	4	PI88788	MR3	-	-	3	-	4	-	3	6	GH2427LG
GH2505E3	E3	2.5	3	M	MT	IND	4	3	1	PUR	GR	BR	IMB	-	3	G	G	G	B	G	B	G	32.5	20.6	S	4	PI88788	MR3	1	-	3	3	5	-	5	-	GH2505E3
GH2562XF NEW●	XF	2.5	3	M	MT	IND	4	3	1	WH	LTW	BR	BL	INC	3	G	P	G	G	B	B	B	32.8	19.4	Rps1c	3	PI88788	R3	1	-	5	2	-	3	3	4	GH2562XF NEW●
GH2610E3	E3	2.6	2	M	M	IND	2	1	2	PUR	GR	TN	BF	INC	2	F	G	B	G	G	G	B	32.4	20.5	Rps1k	4	Peking	-	-	-	3	4	4	-	3	4	GH2610E3
GH2722XF NEW●	XF	2.7	3	M	MT	IND	3	2	1	PUR	LTW	BR	BL	INC	3	G	P	G	B	G	G	G	33.8	19.6	Rps1c	3	PI88788	MR3	1	-	5	3	-	3	3	5	GH2722XF NEW●
GH2788X	RR2X	2.7	3	M	MS	IND	2	1	1	PUR	GR	BR	IMB	INC	3	G	P	B	G	B	F	F	34.8	19.5	Rps1c	4	PI88788	R3, MR14	1	-	5	3	4	3	2	5	GH2788X
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GH2818E3	E3	2.8	2	M	M	IND	3	1	1	WH	GR	TN	BF	INC	2	B	F	B	B	G	G	B	34.2	20.0	Rps1k	4	PI88788	MR3	1	-	4	3	3	-	3	3	GH2818E3
GH2872XF NEW●	XF	2.8	3	MB	MT	IND	3	2	1	PUR	LTW	TN	BL	INC	1	G	F	B	B	G	F	B	31.8	19.5	S	4	PI88788	R3	1	-	4	2	-	5	3	6	GH2872XF NEW●
GH2922E3 NEW●	E3	2.9	3	MB	M	IND	2	1	1	WH	GR	TN	BF	INC	3	B	G	B	G	B	G	B	34.4	18.2	Rps1k, Rps3a	3	PI88788	R3	1	-	3	3	4	-	2	-	GH2922E3 NEW●
GH3088X	RR2X	3.0	2	MB	M	IND	3	1	1	PUR	LTW	BR	BL	INC	3	G	G	B	G	B	B	B	33.9	19.8	Rps1c	4	PI88788	R3, MR14	1	-	3	3	4	2	2	2	GH3088X
GH3132E3 NEW●	E3	3.1	2	MB	M	IND	3	2	1	WH	GR	TN	BF	INC	2	B	G	B	G	B	B	B	34.3	18.5	Rps1k, Rps3a	3	PI88788	R3	1	-	3	3	4	-	3	-	GH3132E3 NEW●
GH3192XF NEW●	XF	3.1	3	MT	T	IND	4	2	2	PUR	LTW	TN	BL	INC	3	G	F	B	G	G	B	B	32.8	19.6	Rps1k	4	PI88788	MR3	1	-	4	3	-	4	3	2	GH3192XF NEW●
GH3195X	RR2X	3.1	3	M	M	IND	3	1	2	WH	LTW	BR	BL	INC	4	G	G	G	G	B	F	F	35.2	19.1	Rps1c	4	PI88788	R3, MR14	-	-	3	5	3	2	3	4	GH3195X
GH3380E3	E3	3.3	3	M	M	IND	3	2	1	PUR	LTW	BR	BR	-	2	F	G	G	G	G	B	G	33.3	19.4	S	4	PI88788	MR3	1	-	3	5	-	4	4	4	GH3380E3
GH3392E3 NEW●	E3	3.3	2	M	MT	IND	3	1	1	PUR	LTW	BR	BL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GH3392E3 NEW●				
GH3442XF NEW●	XF	3.4	4	MB	M	IND	3	2	1	PUR	LTW	BR	BL	INC	3	B	G	B	B	B	B	G	31.2	19.8	Rps1c	4	PI88788	MR3	1	-	3	3	-	3	3	2	GH3442XF NEW●
GH3427LG	LL/GT27	3.4	3	M	M	IND	2	2	2	PUR	LTW	TN	BL	INC	2	G	G	G	G	G	B	B	35.9	19.3	S	3	PI88788	MR3	-	7	3	-	-	-	3	3	GH3427LG
GH3512E3S NEW●	E3/STS	3.5	2	MB	MT	IND	4	3	1	PUR	GR	TN	IMB	INC	3	B	F	B	B	G	B	G	32.1	19.8	Rps1c	4	PI88788	MR3	1	-	4	3	5	-	2	-	GH3512E3S NEW●
GH3582E3	E3	3.5	2	M	M	IND	2	1	1	PUR	GR	TN	IMB	INC	2	B	P	B	G	G	B	B	33.7	20.0	S	3	PI88788	R3, MR14	1	-	5	3	3	-	3	5	GH3582E3
GH3546X	RR2X	3.5	2	M	MT	IND	3	1	1	PUR	LTW	BR	BL	INC	2	G	G	B	B	B	B	B	34.3	19.2	S	3	PI88788	R3	-	7	3	4	4	-	2	2	GH3546X

\*NOTE: A few product descriptions and ratings are sourced from the variety's generic supplier and may change as additional data is gathered.

**Resistance Rating System**  
Indicates when a variety is resistant to a specific disease or pest. For Soybean Cyst Nematode (SCN), the gene(s) conveying the resistance, race(s) the variety is resistant against, and degree of resistance are specified, when available. For Phytophthora, the gene(s) conveying the resistance and general field tolerance rating are listed.

**Soybean Cyst Nematode (SCN)**  
The PI88788, PI89772, and Peking genes confer varying resistances to certain races of SCN. Refer to the "Race Resistances" column for phenotypic (expressed) resistance ratings.

1, 3, 5, and/or 14 = SCN race(s) for which resistance is conferred

R = Resistant

MR = Moderately Resistant

S = Susceptible (no gene-specific resistance)

- = Not Available

**Phytophthora Gene Resistance**  
The following genes confer resistance to the listed races of Phytophthora:  
Rps1a = Resistant to races 1, 2, 10, 11, 13-18, 24, 26, 27, 31, 32, 36, 38  
Rps1c = Resistant to races 1-3, 6-11, 13, 15, 17, 21, 23, 24, 26, 28-30, 32, 34, 36, 38, 44  
Rps1k = Resistant to races 1-11, 13-15, 17, 18, 21-24, 26, 36-38, 44  
Rps3a = Resistant to races 1-5, 8, 9, 11, 13, 14, 16, 18, 23, 25, 28, 29, 31-35, 39, 44, 45  
P = 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.





# SOYBEAN VARIETIES

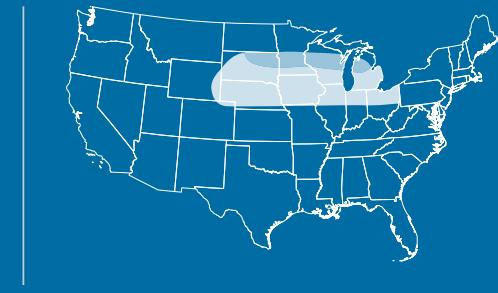
## Soybean Brand

**GH2102XF** BRAND

### EXCELLENT YIELD POTENTIAL WITH STRONG DEFENSE

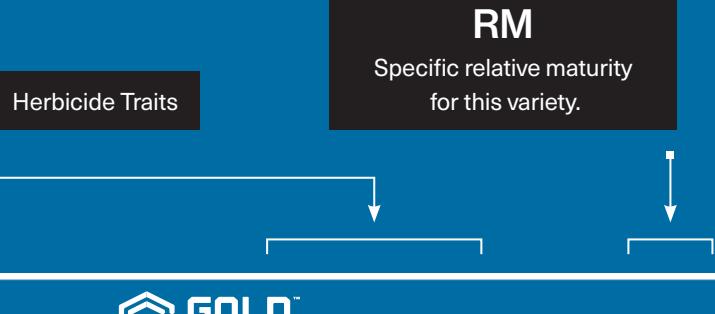
- Widely adapted while excelling on poorly drained soils
- Very good tolerance to PRR, SDS, IDC, and Frogeye Leaf Spot
- Performs well South of zone

Rating	9	7	5	3	1	BEST
Emergence	●	●	●	●	●	
Standability	●	●	●	●	●	
Phytophthora Field Tolerance	●	●	●	●	●	
Sudden Death Syndrome	●	●	●	●	●	
Soybean White Mold	●	●	●	●	●	Rating Not Available
Iron Deficiency Chlorosis	●	●	●	●	●	



## Map

Primary (and secondary, where applicable) areas of adaptation for this variety series. Areas are suggested; performance may vary.



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

## GH0325E3 BRAND

### EXCELLENT YIELD POTENTIAL FOR MATURITY

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

Rating	9	7	5	3	1	BEST
Emergence	●	●	●	●	●	
Standability	●	●	●	●	●	
Phytophthora Field Tolerance	●	●	●	●	●	
Sudden Death Syndrome	●	●	●	●	●	
Soybean White Mold	●	●	●	●	●	
Iron Deficiency Chlorosis	●	●	●	●	●	



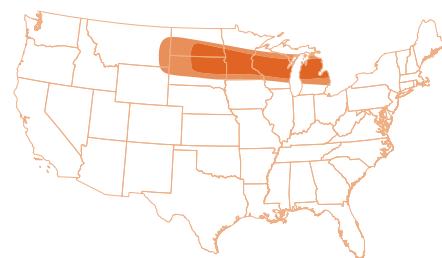
RM: 0.3

## GH0822XF BRAND

### GREAT YIELD POTENTIAL WITH STRESS TOLERANCE

- Large plant type performs well on both drought-stressed and poorly drained acres
- Good fit for the high pH acre where Soybean Cyst Nematode can be an issue
- Rps1c gene with strong tolerance to Phytophthora Root Rot

Rating	9	7	5	3	1	BEST
Emergence	●	●	●	●	●	
Standability	●	●	●	●	●	
Phytophthora Field Tolerance	●	●	●	●	●	
Sudden Death Syndrome	●	●	●	●	●	
Soybean White Mold	●	●	●	●	●	
Iron Deficiency Chlorosis	●	●	●	●	●	



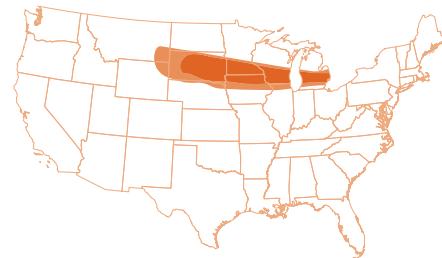
NEW // RM: 0.8

## GH1442XF BRAND

### PROVEN GENETICS WITH A COMPLETE DISEASE PACKAGE

- Consistent performance with broad adaptation across soil types
- Very strong Phytophthora tolerance allows for planting in poorly drained soils
- Excellent standability with strong tolerance to Soybean White Mold

Rating	9	7	5	3	1	BEST
Emergence	●	●	●	●	●	
Standability	●	●	●	●	●	
Phytophthora Field Tolerance	●	●	●	●	●	
Sudden Death Syndrome	●	●	●	●	●	
Soybean White Mold	●	●	●	●	●	
Iron Deficiency Chlorosis	●	●	●	●	●	



NEW // RM: 1.4

## GH1802E3 BRAND

### NEW GENETICS FOR THE ENLIST E3 TRAIT PLATFORM

- Good stress tolerance for drought-prone acres
- Stands well with very strong tolerance to Soybean White Mold
- Performs well in high-yield environments

Rating	9	7	5	3	1	BEST
Emergence	●	●	●	●	●	
Standability	●	●	●	●	●	
Phytophthora Field Tolerance	●	●	●	●	●	
Sudden Death Syndrome	●	●	●	●	●	
Soybean White Mold	●	●	●	●	●	
Iron Deficiency Chlorosis	●	●	●	●	●	



NEW // RM: 1.8

## GH1922E3 BRAND



NEW // RM: 1.9

### STEP-CHANGE IN PERFORMANCE

- Outstanding tolerance to SDS
- Rps1k gene with strong field tolerance to Phytophthora Root Rot
- Medium-tall plant type with good stress tolerance

Rating	9	7	5	3	1	BEST
Emergence	●	●	●	●	●	●
Standability	●	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●	●
Soybean White Mold	●	●	●	●	●	●
Iron Deficiency Chlorosis	●	●	●	●	●	●



## GH2011E3 BRAND



RM: 2.0

### 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

Rating	9	7	5	3	1	BEST
Emergence	●	●	●	●	●	●
Standability	●	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●	●
Soybean White Mold	●	●	●	●	●	●
Iron Deficiency Chlorosis	●	●	●	●	●	●



## GH2102XF BRAND



NEW // RM: 2.1

### EXCELLENT YIELD POTENTIAL WITH STRONG DEFENSE

- Widely adapted while excelling on poorly drained soils
- Very good tolerance to Phytophthora, Sudden Death Syndrome, Iron Deficiency Chlorosis, and Frogeye Leaf Spot
- Performs well south of zone

Rating	9	7	5	3	1	BEST
Emergence	●	●	●	●	●	●
Standability	●	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●	●
Soybean White Mold	●	●	●	●	●	●
Iron Deficiency Chlorosis	●	●	●	●	●	●



## GH2722XF BRAND



NEW // RM: 2.7

### PROVEN GENETICS THAT DELIVER TOP-END YIELD POTENTIAL

- Broadly adapted with strong Sudden Death Syndrome tolerance
- Rps1c and very good Phytophthora tolerance for heavier soils
- Dependable standability throughout the season

Rating	9	7	5	3	1	BEST
Emergence	●	●	●	●	●	●
Standability	●	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●	●
Soybean White Mold	●	●	●	●	●	●
Iron Deficiency Chlorosis	●	●	●	●	●	●



## GH2922E3 BRAND



NEW // RM: 2.9

### EXCITING YIELD POTENTIAL WITH A STELLAR DEFENSIVE PACKAGE

- Broadly adapted with superb Sudden Death Syndrome tolerance
- Solid performance across soils excelling on Phytophthora-prone acres
- Strong Iron Deficiency Chlorosis tolerance for high pH soils

Rating	9	7	5	3	1	BEST
Emergence	●	●	●	●	●	●
Standability	●	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●	●
Soybean White Mold	●	●	●	●	●	●
Iron Deficiency Chlorosis	●	●	●	●	●	●



## GH3132E3 BRAND



NEW // RM: 3.1

### WIDELY ADAPTED WITH SOLID DEFENSE

- Stacked Rps1k/3a genes to protect against Phytophthora
- Good performance in clay soils with high water holding capacity
- Flexible to move north or south of zone

Rating	9	7	5	3	1	BEST
Emergence	●	●	●	●	●	●
Standability	●	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●	●
Soybean White Mold	●	●	●	●	●	●
Frogeye Leaf Spot	●	●	●	●	●	●



## GH3442XF BRAND

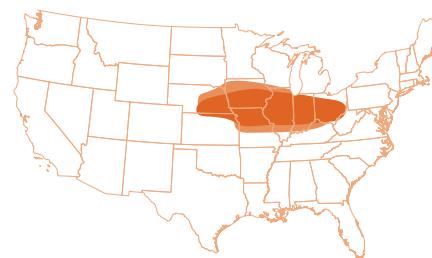


NEW // RM: 3.4

### EXCELLENT PERFORMANCE FOR ANY YIELD ENVIRONMENT

- Performs well both north and south of zone
- Top-end yield potential protected by a solid defensive package
- Good performance across soil types

Rating	9	7	5	3	1	BEST
Emergence	●	●	●	●	●	●
Standability	●	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●	●
Soybean White Mold	●	●	●	●	●	●
Frogeye Leaf Spot	●	●	●	●	●	●



## GH2722XF BRAND

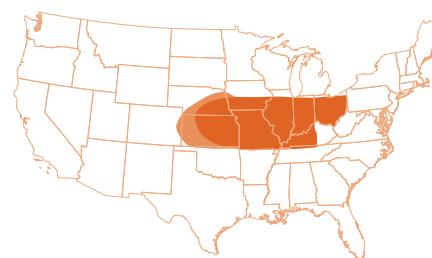


RM: 3.5

### SUPERIOR PERFORMANCE ACROSS GEOGRAPHIES

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

Rating	9	7	5	3	1	BEST
Emergence	●	●	●	●	●	●
Standability	●	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●	●
Soybean White Mold	●	●	●	●	●	●
Frogeye Leaf Spot	●	●	●	●	●	●



“THE BIGGEST ADVANTAGE WITH GOLDEN HARVEST IS THEIR WIDE VARIETY OF TRAITS THAT THEY HAVE TO OFFER ME; DIFFERENT TRAITS FOR THE DIFFERENT FIELDS AND VARYING SOIL CONDITIONS THAT I FARM IN. HAVING THAT WIDE VARIETY HAS DEFINITELY ALLOWED ME TO MAXIMIZE MY YIELDS.”

-Darrin Fisher, Golden Harvest Soybean Farmer, Lake Lillian, MN



## GH3732XF BRAND

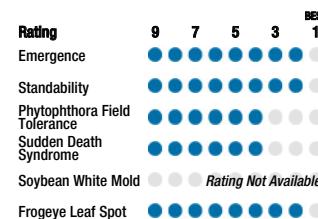


X TENDFLEX  
SOYBEANS

NEW // RM: 3.7

### EXCELLENT PERFORMER ACROSS REGIONS

- Performs well both north and south of zone
- Handles droughty soils well
- Consistent potential at any yield level



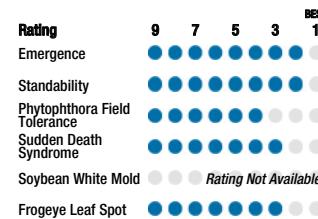
## GH3922E3 BRAND



RM: 3.9

### TOP YIELD POTENTIAL ACROSS ENVIRONMENTS

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



## GH3952XF BRAND

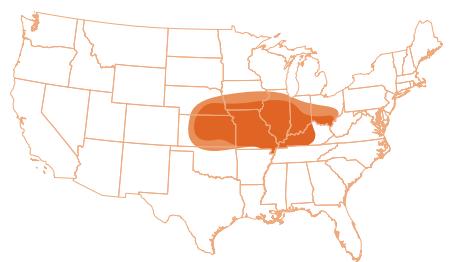
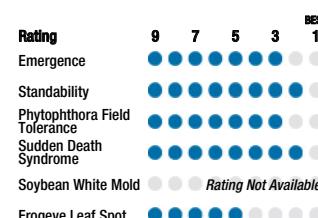


X TENDFLEX  
SOYBEANS

NEW // RM: 3.9

### GREAT AGRONOMICS WITH EXCITING YIELD POTENTIAL

- Superb Sudden Death Syndrome tolerance allows for early planting
- Moves south of zone well
- Great potential at any yield level



## GH4222XF BRAND

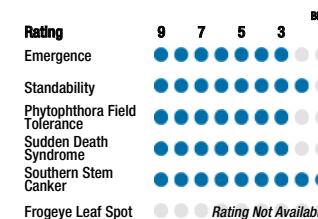


X TENDFLEX  
SOYBEANS

NEW // RM: 4.2

### TOP-END YIELD POTENTIAL WITH BROAD ADAPTATION

- Solid tolerance to Sudden Death Syndrome with great standability
- Equally impressive on both dryland and irrigated acres
- Performs across all soil types



## GH4452XFS BRAND

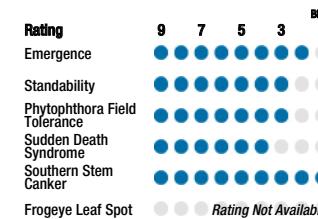


X TENDFLEX  
SOYBEANS

STS NEW // RM: 4.4

### FARMER-TRUSTED GENETICS WITH TOP-END PERFORMANCE

- Very good standability for an easy harvest
- Excellent choice for both first-crop and double-crop acres
- Wide area of adaptation with STS tolerance



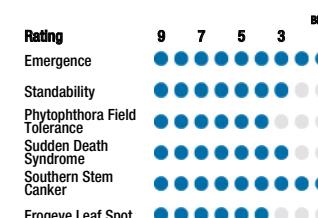
## GH4612E3S BRAND



RM: 4.6

### TOP PERFORMANCE WITH STS TOLERANCE AND CHLORIDE EXCLUDER

- Well suited for either dryland or irrigated acres
- Excellent choice for clay soils
- Tremendous Southern Stem Canker tolerance



# CORN

Golden Harvest  
Brings You  
High-Performing  
Hybrids



Golden Harvest is committed to innovation to develop and deliver the right corn hybrids to perform in your fields. Thousands of corn traits are tested to find the one that's the safest, highest performing and most effective.

Our Nampa, Idaho facility embodies a core pillar of our commitment to fueling a stronger corn lineup with first-in-line innovations available to farmers.

## Proven Success

- > Golden Harvest performed successfully in the 2020 F.I.R.S.T. (Farmers' Independent Research of Seed Technologies) comparisons with the help of improved trait introgression
- > Speed and quality achieved with 100% temperature and environmental controls to help create more traited hybrids in elite germplasm
- > Including the power of Agrisure Duracade® trait for above- and below-ground control with Agrisure Viptera® trait for above-ground control providing premium protection



08

First Place  
Finishers

26

Top Three  
Finishers

101

Top Ten  
Finishers



# CORN TRAITS

## Agrisure Corn Traits

Agrisure® corn traits offer the most complete above- and below-ground insect control solutions.

Control of these damaging pests provides:

### ABOVE-GROUND

- > Less damage from ear-, stalk- and leaf feeding insects resulting in:
  - Less stand loss
  - Noticeably healthier ears with less insect damage
  - Reduced risk of mold and mycotoxin development for high-quality grain

### BELOW-GROUND

- > Stronger, more robust root systems that lead to:
  - Healthier plants
  - Fuller leaves that allow for increased photosynthesis and maximum grain fill
  - More robust stalks that stand tall



### Increased Insect Control



### Stronger Root Systems



With Agrisure Duracade

Without Agrisure Duracade

## Agrisure Duracade®

Agrisure Duracade trait stack controls 16 above- and below-ground insects—more than any other competitive trait stack on the market, making it the industry's most innovative solution for proactively protecting yield potential and field health against the devastating threat of above- and below-ground pests.

- > Features a unique mode of action for strong corn rootworm control
- > Provides new trait rotational option for a healthier field long-term
- > Combines elite genetics for higher yield potential
  - 4.1 bu/A average over products without Agrisure Duracade\*

> When combined with Agrisure Viptera, farmers get the most complete above- and below-ground insect control

## Agrisure Viptera®

No other trait provides better or more complete above-ground insect control than Agrisure Viptera.

- > Agrisure Viptera controls up to 13 above-ground insects and is the only trait available today that effectively controls western bean cutworm
- > Delivers cleaner ears for superior grain quality
- > 7.3 bu/A\*\* yield advantage under ear-feeding insect pressure

## Agrisure Artesian®

Agrisure Artesian® hybrids contain multiple genes for season-long drought protection. Agrisure Artesian traits combine with elite genetics, allowing plants to manage gaps in rainfall through the season and optimizes yield in good conditions, delivering nearly 12% higher yields\*\*\* compared to other hybrids in severe and extreme drought.

\* Data summarized from 390 Syngenta trials in 2018

\*\* Study results from Syngenta field trials in 33 locations

\*\*\* 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.

MASTER TRAIT BRAND	TRAIT TECHNOLOGY	TECHNOLOGY SERIES	MODES OF ACTION	WATER-OPTIMIZED	REFUGE
<b>AgrisureDuracade®</b> 5222A E-Z Refuge®	[Agrisure] [Duracade]	[5]	[2   2   2]	[A]	E-Z Refuge
<b>AgrisureViptera®</b> 3220A E-Z Refuge®	[Agrisure] [Viptera]	[3]	[2   2   0]	[A]	E-Z Refuge

BROADLEPIDIOTERAN CORN BOILER CORN ROOTWORM

- The **trait technology** changes as new technologies are introduced.
- The **Technology Series** indicates herbicide tolerance.
  - Series 3 indicates glyphosate and glufosinate tolerance.
  - Series 5 indicates the Agrisure Duracade series plus glyphosate and glufosinate tolerance.
- The **last three numerical identifiers** represent the number of modes of action in each hybrid for broad lepidopteran, corn borer and corn rootworm control.
- The **letter A** indicates if the hybrid is a water-optimized Agrisure Artesian hybrid.
- The **Refuge** descriptor follows the trait stack numerical identifiers. E-Z Refuge\* hybrids are integrated, single-bag refuge products which contain 95 percent seed of a corn hybrid containing the trait stack and 5 percent seed of a hybrid without insect control traits.

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

\*All E-Z Refuge products meet the 5% refuge requirement for corn-growing regions. Be sure to check requirements for additional required refuge in cotton-growing regions.

## Agrisure Traits Nomenclature

To help farmers understand the competitive advantage of Agrisure traits, we developed a streamlined naming system that helps you identify the insect control you get with each trait. The system creates consistency for delivery of new technology and trait-stacking opportunities.

# CORN CHARACTERISTICS

PRODUCT	TRAIT OFFERS			MATURITY INFORMATION		
	Above/Below-Ground Insect Protection with E-Z Refuge	Above-Ground Insect Protection with E-Z Refuge	Above/Below-Ground Insect Protection	Above-Ground Insect Protection	No Insect	
Golden Harvest Hybrid Series	Above/Below-Ground Insect Protection with E-Z Refuge	Above-Ground Insect Protection with E-Z Refuge	Above/Below-Ground Insect Protection			
	Agrisure Duracade®	Agrisure 3120	Agrisure 3000GT		Agrisure Viptera™	Agrisure GT/LL
	Agrisure 3122	Agrisure Viptera™	Agrisure Viptera™ 3M			
G78C29		3220		GTA/LL	Relative Maturity (RM)	
G80Q01		3220A				
G82M47		3220				
G85Z56	5222	3220				
G84J92		3120A				
G88F37		3120A-LL				
G90S99 NEW	5222 NEW	3220 NEW				
G91V51	5222A NEW		3110A			
G90Y04	5222A	3220A				
G94P48	5122A-LL					
G95D32		3220		GT/LL	GTDs to Silk	
G95M41	5122					
G96R61	5222					
G97N86	5222	3220				
G98L17	5122					
G98M44 NEW	5122 NEW					
G99E68	5122					
G00H12	5122					
G02K39	5122	3120				
G02W74		3000GT				
G03B96 NEW	5122 NEW			Conv.	GTDs to Black Layer	
G03C84	5122	3120				
G03J49		3000GT				
G03R40	5222					
G04G36		3111A				
G04S19	3122					
G05K08	5122A					
G06K93		3220				
G06Q68	5222		3111			
G07F23						
G07G73 NEW	5122 NEW	3120 NEW		GT, Conv.	GTDs to Black Layer	
G07V88						

Emergence	AGRONOMIC CHARACTERISTICS						PLANT CHARACTERISTICS						DISEASE TOLERANCE						PRODUCT							
	Seedling Vigor	Root Strength	Stalk Strength	Drought	Green Snap	Staygreen	Drydown	Test Weight	Blunt Ear	Plant Height	Ear Height	Root Type	Leaf Type	Ear Flex	Husk Cover	Cob Color	Gray Leaf Spot	Northern Corn Leaf Blight	Goss's Wilt	Bacterial Leaf Streak	Southern Corn Leaf Blight	Eyespot	Anthraxose Stalk Rot	Tar Spot	Fusarium Crown Rot	Common Rust
3	3	4	2	2	6	2	3	2	-	4	3	P	S-U	SF	L	R	-	-	4	-	-	2	-	-	G78C29	
3	3	2	3	1	3	1	4	2	-	5	4	M	U	SF	M	R	-	4	4	-	-	3	-	-	G80Q01	
3	2	2	4	4	3	4	2	4	-	4	4	M	P	SF	M	R	-	4	4	-	-	4	-	-	G82M47	
3	2	4	3	2	3	3	3	3	-	3	4	P	S-U	SF	M	R	-	3	4	-	-	3	-	-	G85Z56	
3	3	3	2	1	4	3	4	2	1	3	5	M	S-U	SF	M	R	-	3	4	-	-	3	2	-	G84J92	
3	3	3	4	1	4	4	2	3	3	3	5	M	U	SF	L	R	-	3	3	-	-	3	3	-	G88F37	
2	3	4	3	2	3	3	3	3	2	2	2	M	U	SD	M	R	-	3	5	-	-	3	-	3	G90S99 NEW	
3	3	5	4	1	3	4	3	3	6	3	4	M	U	SF	M	R	-	3	4	-	-	3	4	3	G91V51	
2	3	4	2	1	3	3	3	2	3	2	2	F	P	SF	M	R	-	3	4	3	-	3	3	4	G90Y04	
3	2	3	3	1	2	3	2	3	-	3	2	F	U	SF	L	R	-	3	3	4	-	3	3	7	G94P48	
3	3	3	2	2	5	2	3	2	1	3	4	F	S-U	F	M	R	4	5	3	4	-	2	3	4	G95D32	
3	3	2	3	3	3	3	3	3	-	3	4	M	U	SD	M	R	-	4	5	4	-	3	4	6	G95M41	
2	2	3	2	2	2	3	3	3	2	2	2	F	U	SD	M	R	-	2	4	5	-	3	3	3	G96R61	
2	2	4	2	3	3	3	3	3	5	3	2	M	U	SD	L	R	4	4	4	3	-	3	3	-	G97N86	
2	3	4	4	3	3	3	3	4	8	2	2	M	P	SF	M	R	5	5	6	4	-	5	3	-	G98L17	
3	3	4	4	2	4	5	3	2	-	4	4	M	P	F	M	R	5	4	4	5	4	-	5	5	G98M44 NEW	
3	2	2	3	3	4	2	3	3	-	3	3	M	S-U	SF	M	R	2	2	5	5	-	3	3	4	G99E68	
3	3	2	4	2	2	4	3	3	-	4	4	M	S-U	SF	M	R	3	5	5	3	-	3	3	2	G00H12	
3	3	3	2	2	2	1	3	5	-	5	5	M	U	F	M	R	3	4	3	5	-	3	3	2	G02K39	
3	4	2	2	2	2	4	3	4	6	5	6	M	S-U	SF	S	R	3	2	6	5	-	4	4	3	G02W74	
3	3	3	4	4	2	3	4	2	-	4	3	M	S-U	SF	M	R	5	3	3	4	4	-	5	4	G03B96 NEW	
4	4	3	4	3	4	5	3	4	5	3	3	M	S-U	SF	M	R	4	3	4	5	3	3	4	3	G03C84	
3	2	4	5	2	3	3	2	4	2	2	3	M	P	SF	M	Pi	4	6	2	-	4	4	5	-	G03J49	
2</td																										

# CORN CHARACTERISTICS

PRODUCT	TRAIT OFFERS			MATURITY INFORMATION			PRODUCT		
	Above/Below-Ground Insect Protection with E-Z Refuge	Above-Ground Insect Protection with E-Z Refuge	Above/Below-Ground Insect Protection	Above-Ground Insect Protection	No Insect	Relative Maturity (RM)	GDUs to Silk	GDUs to Black Layer	
Golden Harvest Hybrid Series	Above/Below-Ground Insect Protection with E-Z Refuge	Above-Ground Insect Protection with E-Z Refuge	Above/Below-Ground Insect Protection	Above-Ground Insect Protection	No Insect	Agrisure Duracade® Agrisure 3122	Agrisure 3120 Agrisure Viptera™	Agrisure 3000GT Agrisure Viptera™ Agrisure Viptera™ Agrisure GT/LL	Relative Maturity (RM)
	Agrisure Duracade®	Agrisure 3120	Agrisure 3000GT	Agrisure Viptera™	Agrisure Viptera™				GDUs to Silk
	Agrisure 3122	Agrisure Viptera™	Agrisure Viptera™	Agrisure Viptera™	Agrisure GT/LL				GDUs to Black Layer
	5122A	3120A							108
	5122	3120							1405
		3220							2560
			3111A						108
									1365
									2575
									108
G08D29									1370
									2580
									109
									1375
									2570
									109
									1385
									2580
									109
									1420
									2620
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									116
									1465
									2690
									116
									1440
									2700
									117
									1465
									2650
									118
									1480
									2700
									119
									1495
									2690

AGRONOMIC CHARACTERISTICS					PLANT CHARACTERISTICS					DISEASE TOLERANCE					PRODUCT

# CORN AGRONOMIC MANAGEMENT

PRODUCT	AGRONOMIC MANAGEMENT AND PLACEMENT TRAITS												END-USE TRAITS					
	Relative Maturity (RM)	Seeding Rate (x1000k)						Adaptation to Soil Types/ Yield Environments						END-USE TRAITS				
		120 bu	160 bu	200 bu	240 bu	280 bu	Root Strength	Stalk Strength	Continuous Corn	Drought Prone	High pH	Highly Productive	Variable	Poorly Drained	Starch	Protein	Oil	Beef Feed-to-Gain
Golden Harvest Hybrid Series	G78C29	78	26.0	33.0	37.5	41.0	44.0	4	2	B	G	G	B	G	B	F	G	G
	G80Q01	80	26.0	29.5	30.5	32.0	33.0	2	3	G	B	G	B	G	B	G	G	F
	G82M47	82	26.0	33.0	37.5	41.0	44.0	2	4	G	F	G	B	F	G	P	F	G
	G85Z56	85	24.5	31.5	34.0	36.5	38.5	4	3	B	B	F	B	B	B	G	F	B
	G84J92	86	26.0	33.0	37.5	41.0	44.0	3	2	G	B	F	B	B	B	F	F	G
	G88F37	88	22.0	28.0	32.0	35.0	37.0	3	4	F	B	F	B	B	F	G	F	B
	G90S99 NEW	90	22.0	28.0	32.0	35.0	37.0	4	3	G	B	F	B	B	G	B	F	B
	G91V51	91	26.0	33.0	36.0	37.0	38.5	5	4	F	B	P	B	B	G	F	G	B
	G90Y04	92	26.0	32.5	34.0	35.5	37.0	4	2	B	B	G	B	B	G	B	F	G
	G94P48	94	26.0	33.0	35.0	36.0	36.5	3	3	G	B	G	G	B	B	F	B	G
	G95D32	95	26.0	31.0	34.0	36.5	39.5	3	2	G	B	G	B	B	B	F	F	G
	G95M41	95	26.0	33.0	35.5	37.5	39.5	2	3	F	F	G	B	G	G	F	F	G
	G96R61	96	26.0	33.0	37.5	40.5	43.5	3	2	G	B	F	G	G	B	F	F	G
	G97N86	97	26.0	31.0	34.0	37.0	40.0	4	2	G	P	G	B	F	G	B	F	B
	G98L17	98	22.0	28.0	32.0	35.0	37.0	4	4	B	G	B	B	G	B	F	B	G
	G98M44 NEW	98	25.5	29.5	33.0	36.5	40.0	4	4	F	B	G	F	G	F	B	G	G
	G99E68	99	26.0	33.0	36.5	39.5	42.5	2	3	G	G	G	B	G	G	G	F	B
	G00H12	100	24.5	31.5	33.5	36.0	38.5	2	4	G	G	B	B	G	G	B	F	G
	G02K39	102	26.0	30.5	34.5	38.5	42.5	3	2	B	B	F	B	B	G	B	B	G
	G02W74	102	26.0	33.0	34.5	35.0	35.5	2	2	G	B	F	B	G	G	F	G	G
	G03B96 NEW	103	19.0	23.0	31.0	37.0	39.5	3	4	G	F	G	G	G	G	F	F	G
	G03C84	103	23.5	27.0	29.5	33.5	37.0	3	4	F	B	F	B	B	F	G	B	G
	G03J49	103	24.5	30.0	30.0	32.0	33.5	4	5	G	B	G	B	B	B	F	F	B
	G03R40	103	22.5	28.5	34.5	40.5	44.0	2	2	B	G	G	B	G	G	B	F	G
	G04G36	104	23.5	28.0	33.0	38.0	42.5	2	3	F	B	F	G	G	G	F	G	B
	G04S19	104	22.0	28.0	32.0	35.0	37.0	4	3	G	G	P	G	B	F	F	B	G
	G05K08	105	22.5	27.0	30.0	34.5	39.0	4	3	G	B	G	B	B	G	G	B	G
	G06K93	106	19.0	24.0	30.0	41.0	44.0	3	3	G	B	G	F	B	F	F	G	B
	G06Q68	106	26.0	33.0	35.5	38.0	40.0	3	3	B	B	F	B	B	G	F	F	G
	G07F23	107	24.0	28.0	32.0	36.0	40.0	3	2	G	B	P	B	B	G	F	B	G
	G07G73 NEW	107	22.0	28.0	32.0	35.0	37.0	3	3	G	B	G	B	P	B	F	G	F
	G07V88	107	21.0	27.0	31.0	37.0	39.5	5	3	G	B	F	B	B	P	B	B	G
	G08D29	108	22.5	26.5	30.5	35.0	39.0	3	3	B	B	F	B	B	G	F	B	G

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.

PRODUCT	AGRONOMIC MANAGEMENT AND PLACEMENT TRAITS												END-USE TRAITS					
	Relative Maturity (RM)	Seeding Rate (x1000k)						Adaptation to Soil Types/ Yield Environments						END-USE TRAITS				
		120 bu	160 bu	200 bu	240 bu	280 bu	Root Strength	Stalk Strength	Continuous Corn	Drought Prone	High pH	Highly Productive	Variable	Poorly Drained	Starch	Protein	Oil	Beef Feed-to-Gain
Golden Harvest Hybrid Series	G08M20	108	22.0	28.0	32.0	35.0	37.0	3	3	G	G	G	B	B	F	B	F	B
	G08R52	108	24.5	30.0	35.5	41.0	44.0	2	2	G	B	F	G	G	B	G	P	G
	G07B39	109	24.5	31.5	34.0	37.0	39.5	5	4	G	B	F	G	B	F	B	G	B
	G09A86	109	26.0	33.0	37.5	41.0	43.5	3	2	G	G	F	B	B	G	G	G	B
	G09T26 NEW	109	25.5	30.0	34.5	39.0	43.5	2	2	G	F	F	B	G	G	B	B	B
	G09Y24	109	23.0	27.0	29.5	34.0	38.0	4	4	F	B	P	B	B	G	G	G	G
	G10C45	110	19.0	24.0	31.5	41.0	44.0	2	2	G	G	B	B	G	F	G	F	G
	G10D21	110	26.0	33.0	37.0	41.0	44.0	3	3	G	F	F	G	G	G	G	G	G
	G10K03	110	19.0	24.0	28.0	33.0	38.0	4	4	G	G	G	B	F	B	F	B	G
	G10L16	110	22.0	26.5	29.5	34.0												

# CORN HYBRIDS

## Hybrid Series

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

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.

## G91V51

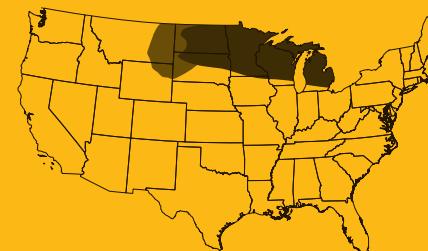
G91V51-5222A E-Z Refuge Brand NEW E092W5-5122A E-Z Refuge Brand NEW  
G91V51-3110A Brand

Agrisure Duracade® Agrisure Viptera® Agrisure Artesian®

RM: 91

### 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



Agrisure Artesian®

## Map

Primary (and secondary, where applicable) areas of adaptation for this variety series. Areas are suggested; performance may vary.

## G80Q01

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

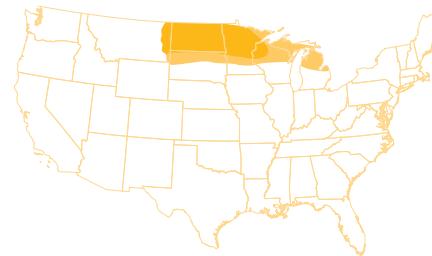
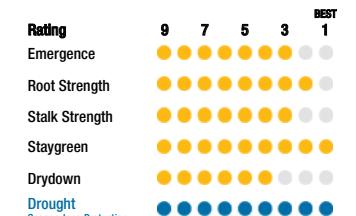
E080Q1-5122A E-Z Refuge Brand

Agrisure Duracade® Agrisure Viptera® Agrisure Artesian®

RM: 80

### CONSISTENT POTENTIAL ACROSS A WIDE RANGE OF YIELD ENVIRONMENTS

- Maximizes yield when it rains, increases yield potential when it doesn't
- Very good root strength
- Excellent test weight



## G90S99

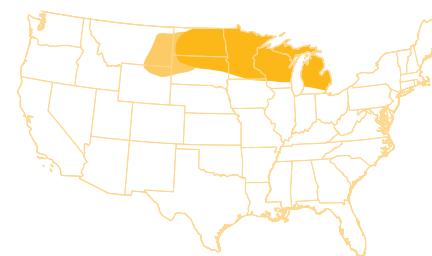
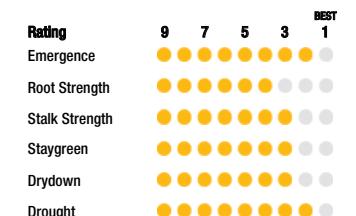
G90S99-5222 E-Z Refuge Brand NEW  
G90S99-3220 E-Z Refuge Brand NEW

Agrisure Duracade® Agrisure Viptera®

NEW // RM: 90

### TOP-END YIELD POTENTIAL WITH BROAD ADAPTATION

- Great emergence and strong seedling vigor provide a fast start at planting
- Outstanding stress tolerance reduces grower risk
- Strong performance across different soil types allows flexible placement



## G91V51

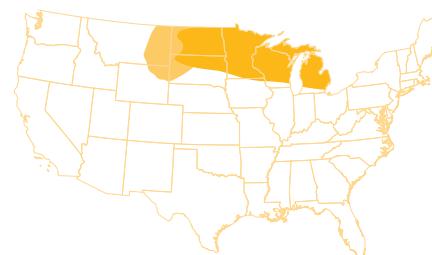
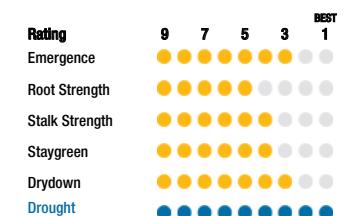
G91V51-5222A E-Z Refuge Brand NEW E092W5-5122A E-Z Refuge Brand NEW  
G91V51-3110A Brand

Agrisure Duracade® Agrisure Viptera® Agrisure Artesian®

RM: 91

### DOMINATING PERFORMANCE WITH AGRISURE ARTESIAN TECHNOLOGY

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



## G95D32

G95D32-3220 E-Z Refuge Brand  
G95D32-GT/LL Brand

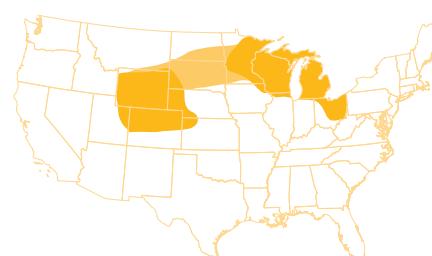
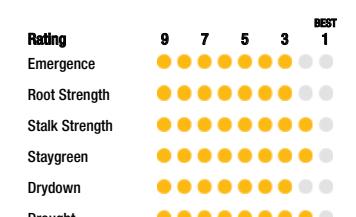
E095D3-5122 E-Z Refuge Brand

Agrisure Duracade® Agrisure Viptera®

RM: 95

### DIVERSE GENETICS WITH EXCITING YIELD POTENTIAL

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



## G96R61

G96R61-5222 E-Z Refuge brand

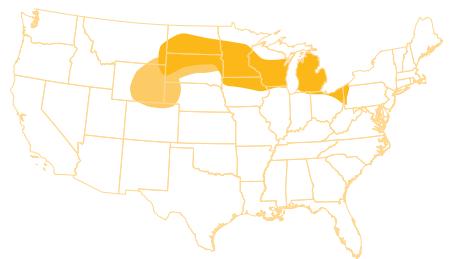
Agrisure  
Duracade® Agrisure  
Viptera®

RM: 96

### DEPENDABLE 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

Rating	9	7	5	3	1	BEST
Emergence	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Root Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Stalk Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Staygreen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drydown	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drought	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	



## G98M44

G98M44-5122 E-Z Refuge Brand NEW

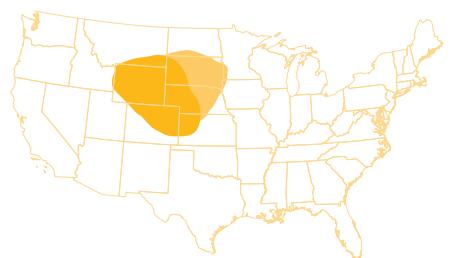
AgrisureDuracade®

NEW // RM: 98

### HEAT-DRIVEN HYBRID FOR WESTERN DRYLAND ENVIRONMENTS

- Outstanding ear flex for population flexibility
- Sound agronomics paired with very strong drought tolerance
- Excellent test weight and dependable drydown

Rating	9	7	5	3	1	BEST
Emergence	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Root Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Stalk Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Staygreen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drydown	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drought	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	



## G99E68

G99E68-5122 E-Z Refuge brand

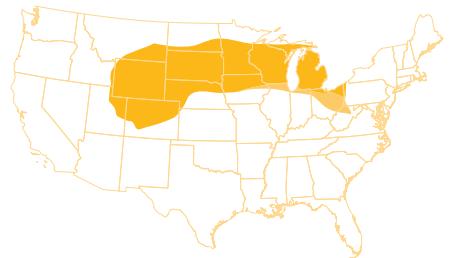
AgrisureDuracade®

RM: 99

### TOP-END YIELD POTENTIAL WITH OUTSTANDING ROOTS AND SOLID STALKS

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

Rating	9	7	5	3	1	BEST
Emergence	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Root Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Stalk Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Staygreen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drydown	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drought	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	



## G00H12

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

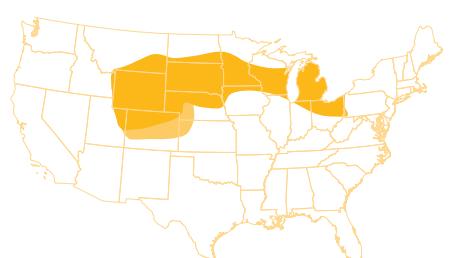
AgrisureDuracade®

RM: 100

### GREAT YIELD STABILITY ACROSS ENVIRONMENTS

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

Rating	9	7	5	3	1	BEST
Emergence	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Root Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Stalk Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Staygreen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drydown	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drought	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	



## G02K39

G02K39-5122 E-Z Refuge Brand  
G02K39-3120 E-Z Refuge Brand

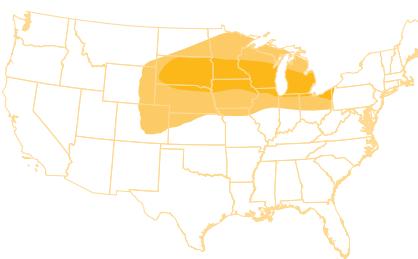
AgrisureDuracade®

RM: 102

### 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

Rating	9	7	5	3	1	BEST
Emergence	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Root Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Stalk Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Staygreen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drydown	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drought	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	



## G03B96

G03B96-5122 E-Z Refuge Brand NEW

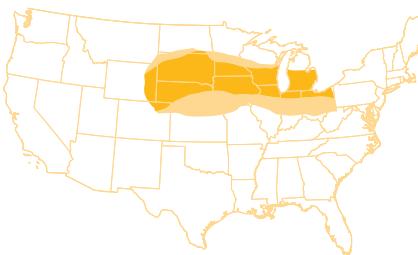
AgrisureDuracade®

NEW // RM: 103

### DEPENDABLE YIELD POTENTIAL ACROSS VARYING SOIL ENVIRONMENTS

- Distinguishing test weight and grain quality
- Outstanding greensnap tolerance reduces risk
- Positive response to in-season management

Rating	9	7	5	3	1	BEST
Emergence	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Root Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Stalk Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Staygreen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drydown	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drought	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	



## G07G73

G07G73-5122 E-Z Refuge Brand NEW

G07G73-3120 E-Z Refuge Brand NEW

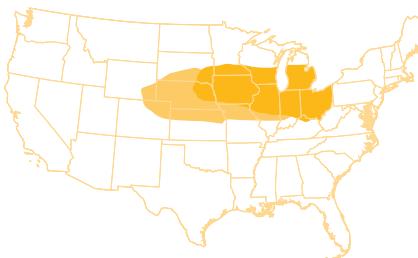
AgrisureDuracade®

NEW // RM: 107

### EXCELLENT TOP-END YIELD POTENTIAL WITH BROAD ADAPTATION

- Outstanding heat and moisture stress tolerance for improved stability
- Robust plant stature with solid roots and stalks
- Semi-flex ear for variable planting populations

Rating	9	7	5	3	1	BEST
Emergence	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Root Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Stalk Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Staygreen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drydown	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drought	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	



## G08D29

G08D29-5122A E-Z Refuge Brand  
G08D29-3120A E-Z Refuge Brand

AgrisureDuracade®

AgrisureArtesian®

RM: 108

## G09T26

G09T26-3120 E-Z Refuge brand NEW

**NEW // RM: 109**

### OUTSTANDING AGRONOMICS WITH BROAD ADAPTABILITY

- Strongest performance in medium to high yield environments
- Brings a new level of root and stalk strength
- Very strong emergence for early planting

Rating	9	7	5	3	1	BEST
Emergence	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Root Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Stalk Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Staygreen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drydown	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drought	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	



## G10D21

G10D21-5332 E-Z Refuge brand NEW  
G10D21-3330 E-Z Refuge brand

**Agrisure Duracade®** **Agrisure Viptera®**

**RM: 110**

### TOP-END YIELD POTENTIAL WITH PROVEN ROOTS AND STALKS FOR SEASON-LONG STANDABILITY

- Consistent high yield potential
- Broadly adapted with a great disease package
- Maximize yield potential and performance with higher populations

Rating	9	7	5	3	1	BEST
Emergence	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Root Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Stalk Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Staygreen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drydown	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drought	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	



## G10L16

G10L16-5222A E-Z Refuge Brand  
G10L16-3220A E-Z Refuge Brand

G10L16-A Brand (Conv.)

**Agrisure Duracade®** **Agrisure Viptera®** **Agrisure Artesian®**

**RM: 110**

### INDUSTRY-LEADING YIELD POTENTIAL ACROSS ALL ACRES

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

Rating	9	7	5	3	1	BEST
Emergence	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Root Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Stalk Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Staygreen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drydown	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drought Season-long Protection	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	



## G11V76

G11V76-5122 E-Z Refuge Brand  
G11V76-3120 E-Z Refuge Brand

E111V76-5122 E-Z Refuge Brand NEW

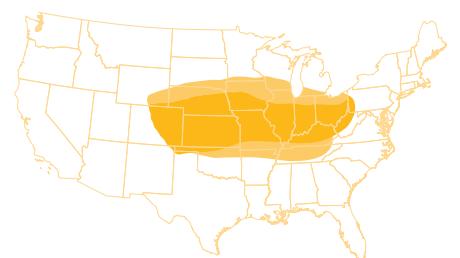
**AgrisureDuracade®**

**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 stress environments

Rating	9	7	5	3	1	BEST
Emergence	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Root Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Stalk Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Staygreen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drydown	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drought	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	



## G12S75

G12S75-5122 E-Z Refuge Brand  
E112S5-5122 E-Z Refuge Brand NEW

### OUTSTANDING STALKS FOR LATE-SEASON STANDABILITY

- Very good staygreen and late-season intactness
- Strong disease tolerance to NCLB and GLS
- Good ear flex provides population flexibility

Rating	9	7	5	3	1	BEST
Emergence	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Root Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Stalk Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Staygreen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drydown	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drought	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	



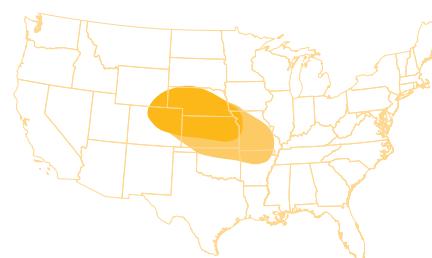
## G13D55

G13D55-3220 E-Z Refuge Brand NEW

### PROVEN DISEASE PACKAGE TO MAXIMIZE YIELD POTENTIAL

- Excellent ear flex to drive yield potential across populations
- Outstanding grain quality and stalk strength
- Excellent staygreen enhances late season intactness

Rating	9	7	5	3	1	BEST
Emergence	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Root Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Stalk Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Staygreen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drydown	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drought	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	



## G13H15

G13H15-5122 E-Z Refuge Brand  
G13H15-3120 E-Z Refuge Brand

**AgrisureDuracade®** **RM: 113**

### BROADLY ADAPTED HYBRID FOR EXCELLENT POTENTIAL ACROSS YIELD ENVIRONMENTS

- Very strong stalks for season-long standability
- Outstanding late-season plant health and intactness
- Strong performance under drought conditions

Rating	9	7	5	3	1	BEST
Emergence	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Root Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Stalk Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Staygreen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drydown	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drought	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	



## G13P84

G13P84-3120 E-Z Refuge Brand NEW

## G15J91

G15J91-3220 E-Z Refuge Brand

### OUTSTANDING ROOTS AND PROVEN 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

Rating	9	7	5	3	1	BEST
Emergence	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Root Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Stalk Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Staygreen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drydown	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drought	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	



Agrisure Viptera RM: 115

## G16K01

G16K01-3111 Brand  
G16K01-GT Brand

E116K4-3000GT Brand

### BROADLY ADAPTED PRODUCT WITH SUPERIOR YIELD POTENTIAL

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

Rating	9	7	5	3	1	BEST
Emergence	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Root Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Stalk Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Staygreen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drydown	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drought	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	



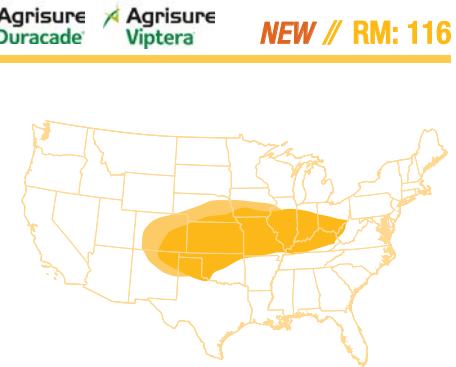
## G16Q82

G16Q82-5222A E-Z Refuge Brand NEW  
G16Q82-3120A E-Z Refuge Brand NEW

### OUTSTANDING COMBINATION OF YIELD AND AGRONOMICS

- Agrisure Artesian corn hybrid with excellent yield stability
- Dependable disease tolerance especially in poorly drained soils
- Superb root and stalk strength provides season-long peace of mind

Rating	9	7	5	3	1	BEST
Emergence	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Root Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Stalk Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Staygreen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drydown	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drought	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	



## G17E95

G17E95-3110 Brand NEW

### STRONG AGRONOMICS AND DIVERSE GENETICS THAT OPTIMIZE PERFORMANCE

- Semi-flex ear type maximizes yield potential across populations
- Dependable root and stalk strength for season-long standability
- Positive response to increased management

Rating	9	7	5	3	1	BEST
Emergence	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Root Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Stalk Strength	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Staygreen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drydown	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	
Drought	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	



# CORN SEED TREATMENTS

With novel active ingredients and crop-specific seed treatment recipes across all major crops, our goal is to improve germination, seedling vigor, plant stand and healthy root systems to get your crops off to a great start. We believe new technologies can change the way we grow and protect crops.



Vayantis®

Introducing Vayantis® seed treatment, a novel, new mode of Pythium protection.

- Most robust Pythium activity ever offered; higher intrinsic Pythium activity than any available seed treatment, including ethaboxam or metalaxyl
- New mode of action; no cross resistance with existing oomycete chemistries
- Effective against all Pythium species (over 35 species and 420+ isolates tested)
- Excellent seed safety and compatibility with all other seed treatment products
- Field performance (2015–2020; 25 locs) improvement by adding Vayantis Corn—Heavy Pythium (significant treatment effect locs)
  - +5.2 bu/A over Base
  - +3.9 bu/A over Acceleron® Standard
  - +2.0 bu/A over INTEGO® Solo (ethaboxam) + Base Corn – Broad Acre
  - +1.6 bu/A over Base

CruiserMaxx® Vibrance®

CruiserMaxx Vibrance seed treatment provides powerful protection for corn 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.



Corn Seed  
Treatments

## Golden Harvest Corn with More Profit Potential

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



## Efficiency and Performance in Beef Operations

Enogen corn hybrids in livestock production have 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).<sup>1</sup>

Enogen corn hybrids improve starch utilization, resulting in more available energy for your herd. Enogen corn hybrids may be harvested as silage, grain or high-moisture corn, allowing for greater flexibility and ease of use with minimized management needs compared to alternative silage-specific hybrids for beef or dairy operations. Farm-proven yields are equal to or better than non-Enogen hybrids.<sup>2,3</sup>

## Efficiency and Performance in Dairy Operations

Enogen corn hybrids increased feed efficiency by about 5%, fed as grain or silage, according to recent feeding trials at leading universities.<sup>4</sup> These farm-proven results demonstrate excellent yield potential with elite genetics and production traits. Enogen Feed corn hybrids also offer ultimate flexibility, with the option to harvest as silage, grain or high-moisture corn. Silage quality and consistency are also shown to improve, making it less prone to spoilage, meaning it may last longer than other silage.

## Ethanol Production

Enogen hybrids offer the first biotech corn output trait designed for ethanol production with advantages that reach far beyond the field. 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 for potentially increased return on investment.

<sup>1</sup>University of Nebraska-Lincoln Research Studies, 2013-2017; Kansas State University Research Study, 2017.

<sup>2</sup>Syngenta production data 2012-2017.

<sup>3</sup>Growers must comply with specific yet simple stewardship requirements.

<sup>4</sup>University of Nebraska-Lincoln Research Studies, 2013-2017; Kansas State University Research Study, 2017; Pennsylvania State University, 2019.

# ENOGEN HYBRID CHARACTERISTICS

PRODUCT	TRAIT OFFERS*	MATURITY INFORMATION		AGRONOMIC CHARACTERISTICS		PLANT CHARACTERISTICS		DISEASE TOLERANCE																										
		Above/Below-Ground Insect Protection E-Z Refuge	Insect Protection AgriSure® Duracade	Relative Maturity (RM)	GDUs to Silk	GDUs to Black Layer	Emergence	Seedling Vigor	Root Strength	Stalk Strength	Drought	Green Snap	Staygreen	Drydown	Test Weight	Blunt Ear	Plant Height	Ear Height	Root Type	Leaf Type	Ear Flex	Husk Cover	Cob Color	Gray Leaf Spot	Northern Corn Leaf Blight	Goss's Wilt	Bacterial Leaf Streak	Southern Corn Leaf Blight	Eyespot	Anthracnose Stalk Rot	Tar Spot	Fusarium Crown Rot	Common Rust	Southern Rust
Enogen Hybrid Series																																		
E080Q1	5122A	80	1150	1810	3	3	2	3	1	3	1	4	3	4	2	1	5	4	M	U	SF	M	R	-	4	4	-	-	3	2	-	2	-	-
E086J9	5122A	86	1200	2140	3	3	3	2	1	4	3	4	3	4	2	1	3	5	M	S-U	SF	M	R	-	3	4	-	-	3	2	-	2	-	-
E092T4		92	1265	2350	3	3	5	4	3	3	3	2	5	3	2	1	2	2	F	P	F	M	R	5	3	6	-	3	4	-	5	2	-	
E092W5 NEW	5122A NEW	92	1240	2300	3	3	5	4	1	3	4	3	3	6	3	4	M	U	SF	M	R	-	3	4	-	-	3	4	3	5	-	-		
E095D3	5122	95	1280	2400	3	3	3	2	2	5	2	3	2	1	3	4	F	S-U	F	M	R	4	5	3	4	-	2	3	4	3	4	-		
E100H1	5122	100	1315	2420	3	3	2	4	2	2	4	3	3	-	4	4	M	S-U	SF	M	R	3	5	5	3	-	3	-	2	4	-	-		
E101P5		101	1335	2460	2	2	4	2	1	3	2	4	3	1	2	3	P	U	SF	M	Pi	4	5	3	3	-	3	3	3	2	-	-		
E105T1		105	1355	2550	2	2	5	2	2	4	2	3	4	2	2	3	M	U	SF	M	Pi	4	5	3	4	4	4	2	3	2	3	-		
E106Q6	5122	106	1355	2560	3	3	3	3	2	3	4	3	5	-	4	5	M	U	SF	M	R	5	2	4	4	3	5	-	4	4	-	4		
E107C1 NEW	5122 NEW	107	1400	2500	3	4	2	3	3	5	3	4	3	-	1	4	M	S-U	SF	M	Pi	3	4	5	5	3	-	5	3	4	-	4		
E108M2	5122	108	1365	2575	3	3	3	3	3	5	5	4	3	-	5	5	M	S-U	SF	L	R	3	3	4	4	4	4	-	6	5	7	5		
E109R3		109	1395	2570	3	2	5	2	2	4	2	4	2	-	2	3	M	U	SD	M	Pi	3	3	5	-	4	6	2	-	2	3	-		
E109Y2	5122A	109	1420	2570	3	3	4	4	1	3	5	4	4	-	5	3	M	S-U	SF	M	R	5	2	4	4	4	3	-	4	5	-	5		
E110F4 NEW	5122 NEW	110	1420	2620	3	3	4	4	3	2	4	2	4	-	4	3	M	S-U	F	M	R	4	3	3	2	4	-	6	2	4	-	3		
E111C6	5122A	111	1425	2570	4	4	3	4	1	3	2	3	3	-	3	3	F	U	F	L	Pi	4	4	3	3	5	3	-	-	6	-	5		
E111V7 NEW	5122 NEW	111	1430	2600	3	3	2	3	2	3	4	3	2	-	4	6	F	U	SF	L	Pi	4	3	6	4	6	-	3	3	3	7	4		
E112S5 NEW	5122 NEW	112	1430	2630	3	2	3	2	3	5	2	4	4	-	2	4	M	U	SF	M	R	3	3	3	4	6	-	3	2	3	7	4		
E113D3		113	1405	2630	3	3	4	4	2	5	3	3	4	-	3	3	F	S-U	F	M	Pi	6	3	3	-	3	-	-	4	-	-	-		
E113M8	5122	113	1430	2680	3	3	2	3	4	3	3	2	4	-	5	4	M	S-U	SD	M	R	3	3	3	4	3	5	-	-	3	4	4		
E113N8		113	1415	2630	3	4	5	4	3	4	5	3	6	-	4	5	F	S-U	F	M	W	6	4	4	5	2	6	4	-	4	3	6		
E113Z5	5122	113	1435	2650	2	2	2	4	3	3	3	2	4	-	4	4	M	S-U	SD	M	R	4	3	3	3	4	4	-	-	4	7	5		
E114H6	5122A	114	1455	2660	4	4	4	5	1	4	3	3	3	-	3	3	M	S-U	SF	M	R	3	2	3	-	5	4	5	-	5	2	4		
E116K4		116	1465	2690	4	3	5	3	2	3	3	2	4	-	4	4	M	P	F	M	Pi	5	4	3	4	3	5	-	-	4	6	5		
E118D8		118	1480	2700	4	4	4	3	3	3	2	3	2	-	2	3	M	S-U	SF	L	R	3	3	4	3	3	5	-	-	4	3	3		

#### Rating Scale

1 = Best

9 = Worst

- = Not available

#### Test Weight

1 = High

9 = Low

#### Plant Height

1 = Tall

9 = Short

- = Not available

#### Ear Height

1 = High

9 = Low

#### Leaf Type

U = Upright

S-U = Semi-Upright

P = Pendulum

L = Long

#### Root Type

P = Penetrating

F = Flex

M = Modified

SF = Semi-Flex

F = Fibrous

SD = Semi-Determinate

D = Determinate

#### Ear Flex

F = Flex

R = Red

Pi = Pink

W = White

#### Cob Color

Brown

Yellow

White

#### Drought

Agrisure Artesian water-optimized hybrid

Flex hybrids adjust to growing conditions by changing ear length or kernel depth. Determinate/Fixed hybrids are less able to adjust ear size.

# SILAGE HYBRID CHARACTERISTICS

## 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:

- Soil testing to monitor fertility issues as a result of manure applications
  - Timing of planting
  - Harvest timing to ensure optimal moisture and higher quality silage
  - How Enogen corn hybrids add value to your rations and can increase your return on investment potential

Product	Relative Maturity (RM)	Agronomic Characteristics						Disease Tolerance	Agronomic Research Ratings								Feed Effect On*				
		Emergence	Root Strength	Drought	Staygreen	Plant Height	Ear Height		Gray Leaf Spot	Goss's Wilt	Yield (lbs/Ac)	CP (% of DM)	NDF 48 hr (%)	NDF Dig. 48 hr (%)	Starch (% of DM)	Fat (% of DM)	TDN (% of DM)	NEL (Mcal/lb)	Milk (lbs/Ton)*	Milk (lbs/Ac)*	Beef (lbs/Ton)*
Golden Harvest Hybrid Series	Relative Maturity (RM)	Emergence	Root Strength	Drought	Staygreen	Plant Height	Ear Height	Gray Leaf Spot	Goss's Wilt	Yield (lbs/Ac)	CP (% of DM)	NDF 48 hr (%)	NDF Dig. 48 hr (%)	Starch (% of DM)	Fat (% of DM)	TDN (% of DM)	NEL (Mcal/lb)	Milk (lbs/Ton)*	Milk (lbs/Ac)*	Beef (lbs/Ton)*	Beef (lbs/Ac)*
G78C29	78	3	4	2	2	4	3	-	4	G	G	B	B	B	-	B	B	B	B	B	G
G80Q01	80	3	2	1	1	5	4	-	4	G	G	G	G	B	-	G	-	G	G	G	G
G82M47	82	3	2	4	4	4	4	-	4	F	F	F	G	F	F	G	F	G	F	G	F
G85Z56	85	3	4	2	3	3	4	-	4	B	G	F	G	F	G	B	-	B	B	B	B
G84J92	86	3	3	1	3	3	5	-	4	G	F	F	G	G	B	F	F	F	G	F	G
G88F37	88	3	3	1	4	3	5	-	3	G	G	G	G	B	-	G	-	G	F	G	F
G90S99 NEW	90	2	4	2	3	2	2	-	5	F	G	G	F	G	G	G	G	F	F	G	F
G91V51	91	3	5	1	4	3	4	-	4	B	F	B	G	B	G	G	B	B	B	B	B
G90Y04	92	2	4	1	3	2	2	-	4	B	B	F	G	G	G	G	G	G	B	G	B
G94P48	94	3	3	1	3	3	2	-	3	G	B	B	G	G	B	B	B	B	G	F	B
G95D32	95	3	3	2	2	3	4	4	3	G	F	B	F	B	B	G	G	B	B	G	B
G95M41	95	3	2	3	3	3	4	-	5	F	F	G	F	B	-	F	-	F	F	F	F
G96R61	96	2	3	2	3	2	2	-	4	B	G	G	G	F	G	G	G	B	G	G	B
G97N86	97	2	4	3	3	3	2	4	4	G	G	G	F	G	B	G	G	G	G	G	G
G98L17	98	2	4	3	3	2	2	5	6	B	G	F	F	G	F	G	G	G	B	G	B
G98M44 NEW	98	3	4	2	5	4	4	5	4	G	G	B	F	B	B	G	-	G	B	G	B
G99E68	99	3	2	3	2	3	3	2	5	F	G	G	F	G	P	G	G	G	F	G	F
G00H12	100	3	2	2	4	4	4	3	5	G	B	P	G	F	B	F	G	F	F	F	F
G02K39	102	3	3	2	1	5	5	3	3	G	G	B	G	G	B	B	B	B	G	B	G
G02W74	102	3	2	2	3	5	6	3	6	F	G	B	B	G	G	G	G	G	F	G	F
G03B96 NEW	103	3	3	4	3	4	3	5	3	G	G	F	F	P	F	G	G	G	F	F	F
G03C84	103	4	3	3	5	3	3	4	4	G	G	G	G	B	B	G	G	F	G	G	G
G03J49	103	3	4	2	3	2	3	4	2	G	F	G	G	B	F	G	G	G	G	G	B
G03R40	103	2	2	3	3	3	3	4	3	G	G	P	G	F	B	F	F	F	F	F	F
G04G36	104	4	2	1	5	5	6	3	3	F	G	B	B	B	B	B	B	F	B	G	B
G04S19	104	4	4	3	4	2	2	4	3	B	F	G	G	G	G	G	G	B	G	B	B
G05K08	105	3	4	1	6	5	6	4	4	G	G	G	F	B	B	F	G	F	F	G	F
G06K93	106	3	3	2	4	3	3	5	3	G	F	G	G	B	B	B	G	B	G	B	G
G06Q68	106	3	3	2	4	4	5	5	4	F	G	G	B	G	B	G	G	F	G	G	F
G07F23	107	3	3	2	4	5	5	3	4	B	G	G	G	F	G	G	G	B	B	B	B

Rating Scale	Plant Height	Root Type	Ear Flex	Cob Color	Drought
1 = Best	1 = Tall	P = Penetrating	F = Flex	R = Red	Agrisure Artesian
9 = Worst	9 = Short	M = Modified	SF = Semi-Flex	Pi = Pink	water-optimized hybrid
- = Not available		F = Fibrous	SD = Semi-Determinate	W = White	
Test Weight	Ear Height	Leaf Type	D = Determinate	Disease Tolerance	
1 = High	1 = High	U = Upright	Husk Cover	1 = High	
9 = Low	9 = Low	S-U = Semi-Upright	S = Short	9 = Low	
		P = Pendulum	M = Medium	- = Not Available	
			L = Long		

Product	Agronomic Characteristics								Disease Tolerance	Agronomic Research Ratings											
	Yield & Quality				Nutrient Content					Performance Metrics					Economic & Environmental						
	Relative Maturity (RM)	Emergence	Root Strength	Drought	Staygreen	Plant Height	Ear Height	Gray Leaf Spot	Goss's Wilt	Yield/Tons/Ac	CP (% of DM)	NDF 48 hr (%)	NDF Dig. 48 hr (%)	Starch (% of DM)	Fat (% of DM)	TDN (% of DM)	NEL (Mcal/lb)	Milk (lbs/Ton)*	Milk (lbs/Ac)*	Beef (lbs/Ton)*	Beef (lbs/Ac)*
Golden Harvest Hybrid Series	Relative Maturity (RM)	Emergence	Root Strength	Drought	Staygreen	Plant Height	Ear Height	Gray Leaf Spot	Goss's Wilt	Yield/Tons/Ac	CP (% of DM)	NDF 48 hr (%)	NDF Dig. 48 hr (%)	Starch (% of DM)	Fat (% of DM)	TDN (% of DM)	NEL (Mcal/lb)	Milk (lbs/Ton)*	Milk (lbs/Ac)*	Beef (lbs/Ton)*	Beef (lbs/Ac)*
G07V88	107	3	5	2	5	3	3	5	3	G	F	G	G	B	G	G	B	B	B	B	G
G08D29	108	2	3	1	5	4	5	4	3	G	G	P	F	F	G	G	F	F	F	F	F
G08M20	108	3	3	3	5	5	5	3	4	G	B	G	G	B	B	F	G	F	F	F	F
G08R52	108	3	2	2	4	5	5	5	4	G	G	G	G	G	G	-	G	G	G	G	G
G07B39	109	4	5	1	4	3	4	5	4	B	G	G	B	G	B	B	B	B	B	B	B
G09A86	109	3	3	3	4	3	4	2	4	B	B	G	F	G	G	G	G	G	G	G	B
G09Y24	109	3	4	1	5	5	3	5	4	G	G	G	B	G	G	G	G	G	G	B	G
G10C45	110	4	2	3	4	3	3	3	2	G	G	G	B	B	B	B	G	B	G	G	G
G10D21	110	3	3	3	3	3	2	2	3	G	G	F	F	G	G	G	G	G	F	F	G
G10K03	110	3	4	3	2	3	3	5	4	F	G	G	G	G	B	G	G	F	G	F	F
G10L16	110	2	4	1	5	5	6	4	3	G	G	B	G	B	B	G	B	G	G	G	G
G10S30	110	3	4	4	5	5	4	6	4	F	G	F	G	G	B	G	G	F	G	G	F
G11B63	111	4	3	1	2	3	3	4	3	B	G	F	G	F	F	G	G	F	B	G	B
G11V76	111	3	2	2	4	4	6	4	6	G	G	G	G	G	F	G	G	G	G	G	G
G12S75	112	3	3	3	2	2	4	3	3	B	F	P	F	F	G	G	G	G	B	F	B
G12U17	112	3	4	4	2	3	3	4	5	G	G	B	B	B	B	F	G	G	G	G	G
G13E90	113	3	4	2	3	3	3	6	3	G	B	G	G	F	G	G	G	G	B	G	G
G13H15	113	3	3	2	3	3	3	3	3	B	F	G	F	B	P	G	G	G	B	G	B
G13M88	113	3	2	4	3	5	4	3	3	F	F	G	F	B	G	G	F	F	F	G	F
G13N18	113	3	5	3	5	4	5	6	4	G	G	F	G	G	G	B	G	B	G	B	F
G13Z50	113	2	2	3	3	4	4	4	3	G	F	G	B	G	P	G	G	F	G	F	F
G14K50	114	4	5	2	3	4	4	6	2	B	F	B	G	B	B	G	B	G	B	B	B
G14N11	114	2	2	3	3	3	2	5	4	G	G	B	G	B	B	F	G	G	G	G	G
G14R38	114	3	2	3	4	3	2	5	4	G	F	B	G	B	B	B	B	B	B	B	B
G15J91	115	4	2	3	4	3	5	4	4	G	G	F	G	G	P	G	G	G	F	G	G
G15L32	115	2	3	4	2	4	5	3	4	B	G	G	G	B	B	G	G	G	G	G	G
G16K01	116	4	5	2	3	4	4	5	3	G	F	G	G	G	G	G	B	G	B	B	G
G17E95 NEW	117	3	3	5	3	2	3	3	2	G	G	F	G	F	-	G	-	G	B	G	G
G18D87	118	4	4	3	2	2	3	3	4	B	B	F	G	F	F	G	G	G	B	G	B
G18H82	118	4	4	4	5	2	3	6	5	F	G	B	B	B	B	G	G	G	G	G	G

Rating Scale	Score Interpretation	
1 = Best	<span style="background-color: green; color: white; padding: 2px 5px;">B</span> = Best	
9 = Worst	<span style="background-color: green; color: white; padding: 2px 5px;">G</span> = Good	
- = Not available	<span style="background-color: orange; color: black; padding: 2px 5px;">F</span> = Fair	
	<span style="background-color: red; color: white; padding: 2px 5px;">P</span> = Poor	
	- = Not Available	

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

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.



# STEWARDSHIP

A strong stewardship program is essential for protecting and preserving the long-term value of insect-protected trait technology. Syngenta provides responsible agriculture programs and information regarding the safe handling and storage of product.

## Grower Stewardship Agreement

A strong stewardship program is essential for helping to protect and preserve the long-term value of Syngenta's trait technology. Embracing this responsibility provides growers with ongoing choices and helps to ensure they remain good stewards of the land. Prior to planting corn hybrids with Agrisure traits, you are required to sign a Syngenta Seeds, LLC Stewardship Agreement. This agreement outlines the terms and conditions of growing hybrids with Agrisure traits, including the terms of a limited license under Syngenta's intellectual property, compliance with Environmental Protection Agency (EPA)-mandated Insect Resistance Management (IRM) programs and grain channeling requirements. The deadline to have all completed agreements to Syngenta is June 30th, annually.

Agreements may be sent using one of the following four methods:

### ONLINE

[www.agcelerate.com](http://www.agcelerate.com)

### EMAIL

[Agreement@agdata.com](mailto:Agreement@agdata.com)

### ELECTRONIC STATEMENT

Electronic signatures will only be accepted through agcelerate.com. Any other forms of electronic signatures will be rejected.

### FAX

1-704-919-5581

**MAIL**  
AgCelerate  
Attn: Stewardship  
PO Box 221679  
Charlotte, NC 28222-1678

## Best Management Practices

Syngenta and other industry registrants have cooperatively developed the EPA mandated IRM Compliance Assurance Program. This program requires corn seed companies to evaluate the extent to which growers are adhering to the IRM requirements and ensure that those who do not are brought back into compliance.

## Resources

To read and understand the full stewardship requirements found in the Syngenta Stewardship Guide or receive further assistance, use the resources below.

**Stewardship Information**  
[www.sygentastewardship.com](http://www.sygentastewardship.com)

**Stewardship Support and IRM Tips Line**  
1-877-GRO-CORN  
(1-877-476-2676)

**Stewardship Support**  
[sygenta.stewardship@syngenta.com](mailto:sygenta.stewardship@syngenta.com)

**Regulatory and Market Status of Agricultural Biotechnology Products**  
[www.biotaifestatus.com](http://www.biotaifestatus.com)

**Take Action**  
**Education Platform**  
[www.IWillTakeAction.com](http://www.IWillTakeAction.com)

**Agreement Submission**  
[Agreements@agdata.com](mailto:Agreements@agdata.com)

## Corn Refuge Requirements

It is important to recognize that different hybrid/trait packages may have different IRM requirements. On-farm mixing of any seed is not an approved method to comply with stewardship requirements. Before filling your planter, always check the bag tag to ensure you know the refuge size requirement.

PRODUCT	SIZE REQUIREMENT (Corn-Growing Region)	SIZE REQUIREMENT (Cotton-Growing Region)	DISTANCE REQUIREMENTS
 <b>AgrisureDuracade</b> 5332 E-Z Refuge <sup>a</sup>	No additional refuge required	20% supplemental refuge <sup>a</sup>	Within or adjacent <sup>b</sup>
 <b>AgrisureDuracade</b> 5222 E-Z Refuge <sup>a</sup>	No additional refuge required	20% supplemental refuge <sup>a</sup>	Within or adjacent <sup>b</sup>
 <b>AgrisureDuracade</b> 5122 E-Z Refuge <sup>a</sup>	No additional refuge required	20% supplemental refuge <sup>a</sup>	Within or adjacent <sup>b</sup>
 <b>Agrisure3122</b> E-Z Refuge <sup>a</sup>	No additional refuge required	20% supplemental refuge <sup>a</sup>	Within or adjacent <sup>b</sup>
 <b>AgrisureViptera</b> 3TII	20%	20%	Within or adjacent <sup>b</sup>
 <b>AgrisureArtesian</b> 3011A	20%	50%	Within or adjacent <sup>b</sup>
 <b>Agrisure3000GT</b>	20%	50%	Within or adjacent <sup>b</sup>
 <b>AgrisureViptera</b> 3330 E-Z Refuge <sup>a</sup>	No additional refuge required	20% supplemental refuge	Within, adjacent, or up to 1/2 mile away <sup>c</sup>
 <b>AgrisureViptera</b> 3220 E-Z Refuge <sup>a</sup>	No additional refuge required	20% supplemental refuge	Within, adjacent, or up to 1/2 mile away <sup>c</sup>
 <b>Agrisure3120</b> E-Z Refuge <sup>a</sup>	No additional refuge required	20% supplemental refuge	Within, adjacent, or up to 1/2 mile away <sup>c</sup>
 <b>AgrisureViptera</b> 3TII0	20%	20%	Within, adjacent, or up to 1/2 mile away <sup>c</sup>

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

<sup>a</sup>Only applicable in the cotton-growing region where a supplemental 20% refuge is required for this product.

<sup>b</sup> Assumes a common corn borer and rootworm refuge. Alternatively, a separate rootworm refuge within or adjacent to the Bt field and a corn borer refuge up to 1/2 mile away could be planted.



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<sup>®</sup>, Liberty<sup>®</sup> and the Water Droplet logo are registered trademarks of BASF Corporation. HERCULEX<sup>®</sup> and the HERCULEX Shield are trademarks of Dow AgroSciences, LLC. HERCULEX Insect Protection technology by Dow AgroSciences. YieldGard VT Pro<sup>®</sup> is a registered trademark used under license from the Bayer Group. The Liberty Link<sup>®</sup> trait may be protected under numerous United States patents. More information about Agrisure Duracade is available at <http://www.biotaifestatus.com>.

# OUR PROGRAMS



The Golden Advantage<sup>SM</sup> is an extended terms offer with a 0% interest fee for farmers to purchase Golden Harvest seed products. Grow with Golden Advantage in three easy steps:

Step

01



TALK TO YOUR GOLDEN HARVEST SEED ADVISOR

Step

02



COMPLETE A SIMPLE ONLINE APPLICATION

Step

03



ORDER GOLDEN HARVEST SEED FOR 2022 PLANTING

## Corn Crop Planning

Field Name: \_\_\_\_\_

Hybrid: \_\_\_\_\_

Population: \_\_\_\_\_

Management Considerations:

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Field Name: \_\_\_\_\_

Hybrid: \_\_\_\_\_

Population: \_\_\_\_\_

Management Considerations:

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## Soybean Crop Planning

Field Name: \_\_\_\_\_

Variety: \_\_\_\_\_

Population: \_\_\_\_\_

Management Considerations:

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Field Name: \_\_\_\_\_

Variety: \_\_\_\_\_

Population: \_\_\_\_\_

Management Considerations:

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# WE'RE LISTENING

Reach out to your local Golden Harvest Seed Advisor to discuss anything in this guide and how it pertains to your acres and yield goals.

**Visit [GoldenHarvestSeeds.com](http://GoldenHarvestSeeds.com) for more information and to find and contact your local Golden Harvest Seed Advisor.**

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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.

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