

SOYBEANS

CORN

ENOGEN®



WE’RE LISTENING

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.

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.

CONTENTS

Our Story

Service 365	01
E-luminate®	02
Our R&D Commitment	03

Agronomy

Seeding Rate Online Tool	06
Agronomy Book Experts	06

Soybeans

Seed Varieties	08
Soybean Seed Treatments	09

Corn

Corn Traits	25
Corn Seed Treatments	40

Enogen

.....	41
-------	----

Silage

.....	45
-------	----

Stewardship

.....	47
-------	----

Our Programs

.....	49
-------	----

“ MOST 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



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

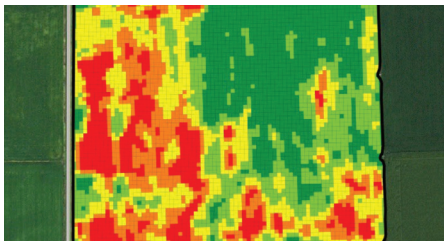
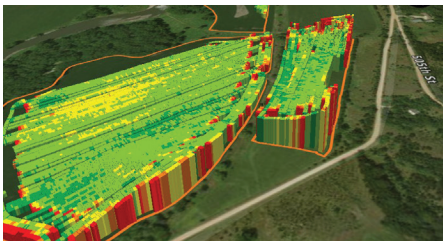
Harvest Prep

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-OBSESSED 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

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



Seeding Rate
Online Tool



Agronomy
Book Experts

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



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

“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



- > 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

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*																			
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	
																Drought Prone	High pH	Highly Productive	Variable	Poorly Drained	Sulfentrazone	Metribuzin
GH00629X	RR2X	0.06	3	M	MS	IND	2	1	2	PUR	LTW	BR	BR	INC	1	F	F	B	G	G	B	B
GH00833E3	E3	0.08	3	MT	M	IND	4	1	2	PUR	GR	BR	BF	-	-	B	G	B	B	G	B	G
GH00982XF NEW	XF	0.09	3	M	M	IND	2	1	2	PUR	LTW	TN	BL	INC	1	G	G	B	B	G	G	G
GH0145X	RR2X	0.1	3	M	MT	IND	3	1	2	PUR	LTW	TN	BL	INC	2	G	G	B	G	G	B	B
GH0294E3	E3	0.2	3	M	M	IND	3	1	2	PUR	GR	TN	BF	-	-	G	G	F	B	G	G	B
GH0272XF NEW	XF	0.2	3	M	MT	IND	2	1	2	PUR	LTW	TN	BL	INC	2	G	G	B	B	G	B	B
GH0325E3	E3	0.3	3	M	M	IND	4	2	2	WH	GR	TN	BF	-	-	G	G	G	B	G	F	B
GH0308X	RR2X	0.3	3	M	MS	IND	2	1	2	PUR	LTW	TN	IMY	INC	2	F	F	G	G	G	B	B
GH0452E3 NEW	E3	0.4	3	MB	MS	IND	4	2	2	PUR	GR	BR	YEL	INC	-	B	B	P	G	G	B	G
GH0443X	RR2X	0.4	3	M	MS	IND	2	1	2	PUR	LTW	TN	BL	EXC	2	B	B	G	G	G	B	G
GH0593E3	E3	0.5	3	M	M	IND	4	2	1	PUR	GR	TN	BF	-	-	F	G	F	G	G	G	G
GH0502XF NEW	XF	0.5	3	M	M	IND	3	2	1	PUR	LTW	TN	IMY	INC	1	B	F	F	G	B	B	F
GH0543X	RR2X	0.5	2	M	MS	IND	2	1	3	PUR	LTW	TN	BR	INC	2	G	F	B	G	G	B	B
GH0715E3	E3	0.7	3	M	MS	IND	4	2	1	PUR	GR	BR	BF	-	-	B	G	B	B	G	B	B
GH0749X	RR2X	0.7	3	M	M	IND	2	2	2	PUR	LTW	TN	BL	INC	2	F	G	B	G	B	B	B
GH0842E3 NEW	E3	0.8	2	M	M	IND	2	1	2	PUR	GR	TN	BF	EXC	-	-	-	-	-	-	-	-
GH0822XF NEW	XF	0.8	3	MB	MT	IND	3	2	1	PUR	LTW	TN	BR	INC	3	B	G	F	G	B	B	G
GH0936X	RR2X	0.9	3	M	MS	IND	4	1	2	PUR	LTW	TN	BR	INC	2	G	G	G	G	G	B	B
GH1012E3	E3	1.0	2	MB	M	IND	2	2	1	PUR	GR	BR	GR	EXC	3	F	F	F	B	F	B	F
GH1032XF NEW	XF	1.0	3	M	M	IND	3	2	1	PUR	LTW	TN	IMY	INC	2	B	G	F	G	G	B	G
S12-R3	RR2Y	1.2	3	M	M	IND	2	3	2	PUR	LTW	TN	BL	EXC	3	G	B	B	B	G	B	B
GH1362E3	E3	1.3	3	MB	M	IND	3	2	1	PUR	GR	TN	IMB	INC	-	G	G	B	G	G	B	B
GH1317X	RR2X	1.3	3	M	M	IND	2	1	2	PUR	LTW	BR	BL	INC	3	G	F	B	G	B	G	G
GH1472E3 NEW	E3	1.4	3	M	MS	IND	3	1	2	PUR	GR	TN	BF	EXC	1	G	F	B	B	B	B	B
GH1442XF NEW	XF	1.4	3	M	MT	IND	2	1	2	PUR	LTW	BR	BR	INC	2	G	G	B	B	G	G	B
GH1414X	RR2X	1.4	3	MT	MT	IND	2	1	2	PUR	LTW	BR	BR	INC	2	G	G	B	G	G	B	B
GH1627LG	LL/GT27	1.6	3	M	M	IND	2	1	2	PUR	LTW	TN	BL	INC	-	G	F	G	G	G	B	B
GH1763E3	E3	1.7	3	M	M	IND	2	2	1	WH	LTW	TN	BL	INC	-	G	F	G	G	G	B	B
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
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
GH1922E3 NEW	E3	1.9	2	M	MT	IND	3	1	1	PUR	LTW	BR	BL	-	-	-	-	-	-	-	-	-

*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 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
--	---	--	--	---

GRAIN QUALITY*		DISEASE/PEST*														PRODUCT	
% Protein @13% mst.	% Oil @13% mst.	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)			Soybean Brands	
		Gene Resistance	Field Tolerance	Gene Source	Race Resistances												
34.6	19.1	Rps1c	3	S	S	-	-	4	3	3	6	-	-			GH00629X	
33.7	18.8	Rps1a	4	PI88788	MR3	-	-	3	2	6	4	-	-			GH00833E3	
34.4	18.4	Rps1c	3	PI88788	MR3	1	-	3	3	3	3	2	-			GH00982XF NEW	
34.7	18.0	Rps1c	2	S	S	1	-	3	3	3	5	2	-			GH0145X	
34.7	17.9	Rps3a	3	S	S	-	-	3	4	4	6	-	-			GH0294E3	
34.9	18.3	Rps1c	3	PI88788	MR3	1	-	3	3	3	5	2	-			GH0272XF NEW	
33.9	18.2	S	4	PI88788	MR3	-	-	3	5	5	6	-	-			GH0325E3	
34.7	18.1	Rps1c, Rps3a	4	S	S	-	-	4	3	3	4	-	-			GH0308X	
38.1	17.1	Rps1c, Rps3a	3	S	S	-	-	2	3	4	5	-	-			GH0452E3 NEW	
35.5	18.4	Rps1c	4	PI88788	MR3	1	-	2	3	2	4	2	-			GH0443X	
33.9	18.5	Rps3a	3	PI88788	MR3, MR14	-	-	3	3	7	-	-	-			GH0593E3	
35.3	17.4	Rps1c	3	PI88788	MR3	1	-	4	5	4	5	4	-			GH0502XF NEW	
33.7	18.6	Rps1c, Rps3a	3	S	S	-	-	4	3	3	2	-	-			GH0543X	
34.2	18.8	Rps3a	3	PI88788	MR3	-	-	3	3	5	3	-	-			GH0715E3	
36.1	18.1	Rps1c	3	PI88788	MR3	1	-	3	5	3	3	4	-			GH0749X	
-	-	S	4	PI88788	R3, MR14	-	-	3	-	3	-	-	-			GH0842E3 NEW	
34.5	17.2	Rps1c	3	PI88788	R3	1	-	3	4	4	5	3	-			GH0822XF NEW	
33.9	19.1	Rps1k, Rps3a	3	S	S	-	-	3	3	4	4	3	-			GH0936X	
36.3	17.4	S	4	PI88788	R3, MR14	-	-	4	4	4	3	2	-			GH1012E3	
35.4	17.5	Rps1c	3	PI88788	R3	1	-	3	5	4	3	3	2			GH1032XF NEW	
36.1	18.3	S	4	PI88788	R3, MR14	-	-	2	2	2	4	3	-			S12-R3	
35.2	17.9	Rps1c	4	PI88788	MR3, MR14	-	-	3	3	5	4	4	-			GH1362E3	
34.0	19.4	Rps1c, Rps3a	2	S	S	-	-	4	5	3	4	6	-			GH1317X	
34.4	18.2	Rps1c, Rps3a	3	Peking	MR1, R3, MR5	1	-	4	3	4	5	4	-			GH1472E3 NEW	
34.7	18.1	Rps1c	2	PI88788	MR3	1	-	3	2	3	4	2	-			GH1442XF NEW	
34.9	18.6	Rps1c	2	PI88788	MR3, MR14	1	-	3	3	3	2	3	-			GH1414X	
33.3	19.4	S	3	PI88788	MR3	-	-	4	-	3	3	4	5			GH1627LG	
34.8	18.8	S	4	PI88788	MR3	-	-	4	3	3	5	2	5			GH1763E3	
34.6	18.7	Rps1c	4	PI88788	MR3	1	-	3	2	3	4	3	-			GH1762XF NEW	
34.7	18.4	Rps1c	4	PI88788	R3	1	-	4	3	2	4	4	-			GH1802E3 NEW	
-	-	Rps1k	3	PI88788	R3, MR14	1	-	3	-	4	-	2	-			GH1922E3 NEW	

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
S = Susceptible (no gene-specific tolerance)

Phytophthora Field Tolerance
Usually not as complete as race-specific resistance, but it offers general protection. Resistance is not expressed in early stages of plant development. Numerical rating scale of 1-9; 1 = Best.

Disease/Pest Ratings
1 = Best
9 = Worst
- = Not Available

SOYBEAN CHARACTERISTICS

PRODUCT			AGRONOMIC/PLANT CHARACTERISTICS*																			
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	
																Drought Prone	High pH	Highly Productive	Variable	Poorly Drained	Sulfentrazone	Metribuzin
GH1944E3	E3	1.9	3	MT	M	IND	2	2	2	PUR	GR	TN	IMB	EXC	-	F	G	F	G	G	B	B
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
GH1915X	RR2X	1.9	3	M	MS	IND	2	1	2	WH	LTW	BR	BL	-	4	F	F	B	G	G	B	G
GH2011E3	E3	2.0	3	M	M	IND	2	1	1	PUR	GR	BR	BF	INC	2	G	F	G	B	G	G	B
GH2041X	RR2X	2.0	3	M	M	IND	2	1	2	WH	LTW	BR	BL	INC	3	G	G	B	B	F	B	B
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
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
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
GH2329X	RR2X	2.3	3	MB	M	IND	3	3	1	WH	LTW	BR	BL	INC	3	G	F	G	G	B	B	B
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
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
GH2505E3	E3	2.5	3	M	MT	IND	4	3	1	PUR	GR	BR	IMB	-	3	G	G	G	B	G	B	G
GH2562XF NEW ●	RR2XF	2.5	3	M	MT	IND	4	3	1	WH	LTW	BR	BL	INC	3	G	P	G	G	B	B	B
GH2610E3	E3	2.6	2	M	M	IND	2	1	2	PUR	GR	TN	BF	INC	2	F	G	B	G	G	G	B
GH2722XF NEW ●	RR2XF	2.7	3	M	MT	IND	3	2	1	PUR	LTW	BR	BL	INC	3	G	P	G	B	G	G	G
GH2788X	RR2X	2.7	3	M	MS	IND	2	1	1	PUR	GR	BR	IMB	INC	3	G	P	B	G	B	F	F
GH2727LG	LL/GT27	2.7	2	MB	M	IND	3	2	1	PUR	LTW	TN	BR	INC	2	B	F	B	B	B	G	G
GH2818E3	E3	2.8	2	M	M	IND	3	1	1	WH	GR	TN	BF	INC	2	B	F	B	B	G	G	B
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
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
GH3088X	RR2X	3.0	2	MB	M	IND	3	1	1	PUR	LTW	BR	BL	INC	3	G	G	B	G	B	B	B
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
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
GH3195X	RR2X	3.1	3	M	M	IND	3	1	2	WH	LTW	BR	BL	INC	4	G	G	G	G	B	F	F
GH3380E3	E3	3.3	3	M	M	IND	3	2	1	PUR	LTW	BR	BR	-	2	F	G	G	G	G	B	G
GH3392E3 NEW	E3	3.3	2	M	MT	IND	3	1	1	PUR	LTW	BR	BL	-	-	-	-	-	-	-	-	-
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
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
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
GH3582E3	E3	3.5	2	M	M	IND	2	1	1	PUR	GR	TN	IMB	INC	2	B	P	B	G	G	B	B
GH3546X	RR2X	3.5	2	M	MT	IND	3	1	1	PUR	LTW	BR	BL	INC	2	G	G	B	B	B	B	B

*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

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

GRAIN QUALITY*		DISEASE/PEST*														PRODUCT	
% Protein @13% mst.	% Oil @13% mst.	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)			Soybean Brands	
		Gene Resistance	Field Tolerance	Gene Source	Race Resistances												
33.7	19.9	Rps1c	3	PI88788	MR3, MR14	-	-	3	3	3	3	5	5			GH1944E3	
36.2	17.5	Rps1c, Rps3a	2	PI88788	MR3	1	-	3	3	-	5	3	4			GH1932XF NEW	
34.4	19.7	Rps1c	4	PI88788	R3, MR14	-	-	4	5	3	5	3	5			GH1915X	
35.5	18.5	Rps1c, Rps3a	2	PI88788	MR3	1	-	4	3	4	-	2	4			GH2011E3	
35.2	18.9	Rps1c	4	PI88788	R3, MR14	1	-	3	5	3	3	2	5			GH2041X	
-	-	S	4	PI88788	MR3, MR14	-	-	4	-	3	-	2	5			GH2027LG	
33.6	18.8	Rps1c	3	PI88788	MR3	1	-	3	5	-	4	3	3			GH2102XF NEW	
33.9	18.4	Rps1c	3	PI88788	MR3	1	-	4	3	4	-	3	-			GH2292E3 NEW	
34.9	19.2	Rps1c	3	PI89772	MR1, MR3	1	-	4	3	4	4	2	4			GH2329X	
34.5	18.9	Rps1c, Rps3a	4	PI88788	R3, MR14	1	-	5	3	3	-	3	-			GH2442E3 NEW	
36.1	19.7	S	4	PI88788	MR3	-	-	3	-	4	-	3	6			GH2427LG	
32.5	20.6	S	4	PI88788	MR3	1	-	3	3	5	-	5	-			GH2505E3	
32.8	19.4	Rps1c	3	PI88788	R3	1	-	5	2	-	3	3	4			GH2562XF NEW	
32.4	20.5	Rps1k	4	Peking	-	-	-	3	4	4	-	3	4			GH2610E3	
33.8	19.6	Rps1c	3	PI88788	MR3	1	-	5	3	-	3	3	5			GH2722XF NEW	
34.8	19.5	Rps1c	4	PI88788	R3, MR14	1	-	5	3	4	3	2	5			GH2788X	
36.0	20.2	S	3	PI88788	MR3	-	-	4	-	4	-	4	3			GH2727LG	
34.2	20.0	Rps1k	4	PI88788	MR3	1	-	4	3	3	-	3	3			GH2818E3	
31.8	19.5	S	4	PI88788	R3	1	-	4	2	-	5	3	6			GH2872XF NEW	
34.4	18.2	Rps1k, Rps3a	3	PI88788	R3	1	-	3	3	4	-	2	-			GH2922E3 NEW	
33.9	19.8	Rps1c	4	PI88788	R3, MR14	1	-	3	3	4	2	2	2			GH3088X	
34.3	18.5	Rps1k, Rps3a	3	PI88788	R3	1	-	3	3	4	-	3	-			GH3132E3 NEW	
32.8	19.6	Rps1k	4	PI88788	MR3	1	-	4	3	-	4	3	2			GH3192XF NEW	
35.2	19.1	Rps1c	4	PI88788	R3, MR14	-	-	3	5	3	2	3	4			GH3195X	
33.3	19.4	S	4	PI88788	MR3	1	-	3	3	5	-	4	4			GH3380E3	
-	-	S	4	PI88788	R3, MR14	1	-	5	-	4	-	3	4			GH3392E3 NEW	
31.2	19.8	Rps1c	4	PI88788	MR3	1	-	3	3	-	3	3	2			GH3442XF NEW	
35.9	19.3	S	3	PI88788	MR3	-	7	3	-	-	-	3	3			GH3427LG	
32.1	19.8	Rps1c	4	PI88788	MR3	1	-	4	3	5	-	2	-			GH3512E3S NEW	
33.7	20.0	S	3	PI88788	R3, MR14	1	-	5	3	3	-	3	5			GH3582E3	
34.3	19.2	S	3	PI88788	R3	-	7	3	4	4	-	2	2			GH3546X	

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
S = Susceptible (no gene-specific tolerance)

Phytophthora Field Tolerance
Usually not as complete as race-specific resistance, but it offers general protection. Resistance is not expressed in early stages of plant development. Numerical rating scale of 1-9; 1 = Best.

Disease/Pest Ratings
1 = Best
9 = Worst
- = Not Available

SOYBEAN CHARACTERISTICS

PRODUCT			AGRONOMIC/PLANT CHARACTERISTICS*																			
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	
																Drought Prone	High pH	Highly Productive	Variable	Poorly Drained	Sulfentrazone	Metribuzin
GH3762E3S NEW ●	E3/STS	3.7	2	M	T	IND	4	2	2	WH	GR	TN	BF	EXC	3	G	G	G	G	B	B	B
GH3732XF NEW ●	XF	3.7	2	M	MT	IND	2	1	1	PUR	LTW	BR	BL	INC	3	B	G	B	B	G	B	B
GH3728X	RR2X	3.7	2	M	M	IND	2	1	1	PUR	GR	BR	IMB	INC	2	B	P	G	G	B	F	B
GH3727LG	LL/GT27	3.7	2	M	M	IND	3	3	1	PUR	LTW	BR	BR	INC	3	B	P	G	G	G	B	G
GH3902E3S NEW ●	E3/STS	3.9	2	MB	T	IND	5	3	1	WH	GR	TN	BF	EXC	3	B	P	F	B	G	B	B
GH3922E3	E3	3.9	2	MB	M	IND	2	1	1	WH	GR	BR	BF	INC	3	B	F	G	G	G	B	G
GH3952XF NEW ●	XF	3.9	3	M	MT	IND	2	1	1	PUR	LTW	BR	BL	INC	3	G	F	B	B	B	F	G
GH3982X	RR2X	3.9	2	MB	MT	IND	3	1	1	PUR	LTW	TN	BL	INC	3	G	P	G	B	F	B	G
GH3927LG	LL/GT27	3.9	3	M	MT	IND	2	2	1	WH	LTW	BR	BL	INC	-	G	F	F	B	G	B	B
GH4072E3 NEW ●	E3	4.0	3	MB	M	IND	3	2	1	WH	GR	TN	BF	INC	-	G	P	B	G	B	G	G
GH4155E3	E3	4.1	2	MB	MT	IND	2	1	1	PUR	LTW	TN	BR	INC	2	G	G	G	F	G	G	G
GH4201E3	E3	4.2	3	MB	M	IND	3	2	1	WH	LTW	BR	BR	INC	-	G	F	F	G	B	B	G
GH4222XF NEW ●	XF	4.2	3	M	M	IND	2	1	2	PUR	LTW	BR	BL	INC	-	B	F	B	B	G	P	B
GH4240XS	RR2X/STS	4.2	2	M	MT	IND	2	1	1	WH	GR	BR	BF	INC	3	G	P	B	B	B	F	B
GH4362E3S NEW ●	E3/STS	4.3	2	M	MT	IND	2	1	1	PUR	GR	BR	IMB	INC	-	-	-	-	-	-	-	-
GH4392XF NEW ●	XF	4.3	3	M	MT	IND	4	3	2	PUR	LTW	BR	BL	INC	-	B	G	B	G	G	F	B
GH4307X	RR2X	4.3	3	M	MT	IND	4	3	1	PUR	LTW	TN	BL	INC	4	B	F	B	B	B	G	G
GH4474E3	E3	4.4	3	MB	M	IND	3	1	1	PUR	GR	TN	IMB	INC	1	G	P	F	G	G	F	F
GH4452XFS NEW ●	XF/STS	4.4	2	M	MT	IND	3	1	2	WH	GR	BR	BF	INC	-	B	P	B	B	B	F	B
GH4582E3 NEW ●	E3	4.5	2	MB	MT	IND	4	4	1	WH	GR	BR	BF	INC	5	B	P	P	B	G	B	F
GH4512XF NEW ●	RR2XF	4.5	2	M	MT	IND	3	1	1	PUR	LTW	BR	BL	EXC	-	F	P	G	G	G	F	B
GH4531XS	RR2X/STS	4.5	2	MB	MT	IND	3	2	1	PUR	GR	BR	BF	INC	2	B	F	B	G	G	F	G
GH4612E3S	E3/STS	4.6	1	M	T	IND	3	3	1	PUR	GR	BR	IMB	EXC	1	B	F	G	B	G	F	G
GH4741X	RR2X	4.7	2	M	MT	IND	2	1	1	PUR	LTW	BR	BL	EXC	2	B	P	B	G	G	P	B
GH4838E3S	E3/STS	4.8	3	M	MT	IND	4	3	1	PUR	GR	BR	IMB	INC	2	P	P	G	F	F	F	F
GH4882XFS NEW ●	XF/STS	4.8	2	M	MT	IND	2	1	2	WH	GR	BR	BF	INC	-	G	P	B	G	B	P	G
GH4823XS	RR2X/STS	4.8	2	MB	T	IND	3	2	2	WH	LTW	BR	BR	EXC	3	G	P	G	G	G	F	G
GH4972E3S NEW ●	E3/STS	4.9	3	MB	MT	IND	3	2	1	WH	GR	BR	BF	EXC	-	-	-	-	-	-	-	-
GH4917XS	RR2X/STS	4.9	2	MB	T	IND	5	4	1	PUR	LTW	TN	BL	INC	4	G	P	F	G	B	F	G
GH5189E3	E3	5.1	3	MB	MT	IND	4	3	1	WH	GR	BR	BF	EXC	-	G	P	F	G	G	F	F
GH5175XS	RR2X/STS	5.1	1	MB	MT	IND	4	3	1	WH	GR	TN	BF	INC	4	F	P	B	G	G	F	G
GH5762XF NEW ●	XF	5.7	2	MB	M	DET	3	1	1	PUR	LTW	BR	BL	INC	-	F	F	B	G	G	P	B

*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

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

GRAIN QUALITY*		DISEASE/PEST*														PRODUCT	
% Protein @13% mst.	% Oil @13% mst.	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)	Soybean Brands			
		Gene Resistance	Field Tolerance	Gene Source	Race Resistances												
32.1	20.0	Rps1c	3	PI88788	MR3	1	-	3	3	6	-	2	2	GH3762E3S NEW ●			
31.4	18.7	S	4	PI88788	R3	1	-	3	4	-	-	4	2	GH3732XF NEW ●			
35.5	19.0	Rps1c	2	PI88788	R3, R14	2	7	5	3	-	-	3	3	GH3728X			
37.4	19.1	Rps3a	5	PI88788	MR3	1	6	5	-	-	-	-	3	GH3727LG			
31.7	20.1	Rps1c	3	PI88788	R3	1	-	5	3	6	-	2	2	GH3902E3S NEW ●			
34.4	19.4	Rps1a	4	PI88788	MR3	1	6	4	3	-	-	3	3	GH3922E3			
32.3	18.8	Rps1c	3	PI88788	R3	1	-	4	2	-	-	2	5	GH3952XF NEW ●			
34.5	19.5	S	4	PI88788	R3, MR14	2	5	5	-	-	-	4	3	GH3982X			
36.9	19.5	S	4	PI88788	MR3	1	6	4	-	-	-	4	2	GH3927LG			
32.1	18.5	Rps1c, Rps3a	3	PI88788	MR3	1	-	5	4	-	-	2	2	GH4072E3 NEW ●			
35.1	19.0	Rps3a	4	PI88788	MR3	-	5	3	3	-	-	5	3	GH4155E3			
33.7	19.5	S	4	PI88788	R3	1	-	4	4	-	-	3	2	GH4201E3			
32.9	18.1	S	3	PI88788	MR3	1	8	4	3	-	-	3	-	GH4222XF NEW ●			
34.5	19.0	Rps1c	3	PI88788	R3	1	8	6	2	-	-	3	5	GH4240XS			
-	-	S	4	PI88788	R3, MR14	1	-	-	-	-	-	4	3	GH4362E3S NEW ●			
33.6	18.0	S	4	PI88788	MR3	1	8	3	3	-	-	3	2	GH4392XF NEW ●			
33.7	19.7	S	4	PI88788	R3, MR14	3	7	4	4	-	-	3	2	GH4307X			
33.9	18.2	Rps1a	3	PI88788	MR3	1	4	5	3	-	-	5	3	GH4474E3			
33.3	17.9	Rps1c	3	PI88788	MR3	1	5	5	3	-	-	4	-	GH4452XFS NEW ●			
33.2	18.6	Rps1c, Rps3a	3	PI88788	R3	1	3	5	3	-	-	3	2	GH4582E3 NEW ●			
34.4	18.0	S	5	PI88788	R3	1	5	6	4	-	-	3	2	GH4512XF NEW ●			
36.8	20.7	S	4	PI88788	MR3, MR14	1	7	4	3	-	-	3	5	GH4531XS			
35.5	19.0	S	4	PI88788	MR3	1	3	4	3	-	-	3	4	GH4612E3S			
34.9	19.2	Rps1k	4	PI88788	R3, MR14	2	7	5	3	-	-	3	3	GH4741X			
34.6	18.0	S	4	PI88788	MR3	1	4	5	3	-	-	3	3	GH4838E3S			
33.1	18.2	Rps1k	-	PI88788	-	1	6	5	-	-	-	4	2	GH4882XFS NEW ●			
35.0	20.8	Rps1c	3	PI88788	MR3	1	7	5	3	-	-	4	2	GH4823XS			
-	-	S	4	PI88788	R3, MR14	1	-	-	-	-	-	4	3	GH4972E3S NEW ●			
34.9	21.4	Rps1k	3	PI88788	R3, MR14	1	6	5	-	-	-	5	3	GH4917XS			
35.5	18.0	S	5	PI88788	MR3	1	4	5	2	-	-	3	3	GH5189E3			
35.0	20.0	Rps1k	4	PI88788	MR3, MR14	1	7	5	3	-	-	5	2	GH5175XS			
36.1	16.2	S	4	PI88788	R3	1	6	4	3	-	-	3	2	GH5762XF NEW ●			

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
S = Susceptible (no gene-specific tolerance)

Phytophthora Field Tolerance
Usually not as complete as race-specific resistance, but it offers general protection. Resistance is not expressed in early stages of plant development. Numerical rating scale of 1-9; 1 = Best.

Disease/Pest Ratings
1 = Best
9 = Worst
- = Not Available

SOYBEAN VARIETIES

Soybean Brand

Herbicide Traits

RM
Specific relative maturity for this variety.

GH2102XF BRAND

GOLD SERIES

X TENDFLEX SOYBEANS

NEW // RM: 2.1

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	BEST 1
Emergence	●	●	●	●	●
Standability	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●
Soybean White Mold	●	●	●	●	●
Iron Deficiency Chlorosis	●	●	●	●	●

Map

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

GH0325E3 BRAND

Enlist E3 SOYBEANS

RM: 0.3

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	BEST 1
Emergence	●	●	●	●	●
Standability	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●
Soybean White Mold	●	●	●	●	●
Iron Deficiency Chlorosis	●	●	●	●	●

GH0822XF BRAND

GOLD SERIES

X TENDFLEX SOYBEANS

NEW // RM: 0.8

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	BEST 1
Emergence	●	●	●	●	●
Standability	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●
Soybean White Mold	●	●	●	●	●
Iron Deficiency Chlorosis	●	●	●	●	●

GH1442XF BRAND

GOLD SERIES

X TENDFLEX SOYBEANS

NEW // RM: 1.4

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	BEST 1
Emergence	●	●	●	●	●
Standability	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●
Soybean White Mold	●	●	●	●	●
Iron Deficiency Chlorosis	●	●	●	●	●

GH1802E3 BRAND

GOLD SERIES

Enlist E3 SOYBEANS

NEW // RM: 1.8

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	BEST 1
Emergence	●	●	●	●	●
Standability	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●
Soybean White Mold	●	●	●	●	●
Iron Deficiency Chlorosis	●	●	●	●	●

GH1922E3

BRAND

Enlist E3

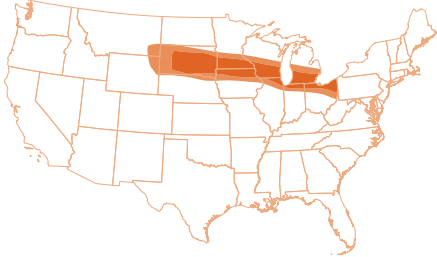
SOYBEANS

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	BEST 1
Emergence	●	●	●	●	●
Standability	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●
Soybean White Mold	●	●	●	●	●
Iron Deficiency Chlorosis	●	●	●	●	●



GH2011E3

BRAND

Enlist E3

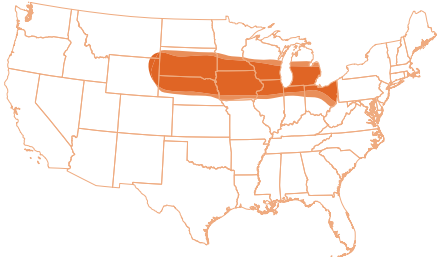
SOYBEANS

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	BEST 1
Emergence	●	●	●	●	●
Standability	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●
Soybean White Mold	●	●	●	●	●
Iron Deficiency Chlorosis	●	●	●	●	●



GH2102XF

BRAND

GOLD SERIES

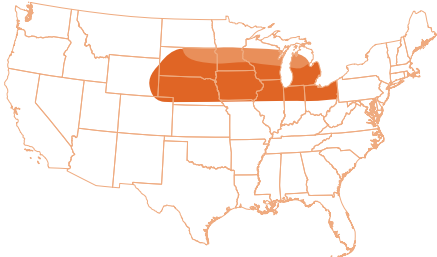
X TENDFLEX SOYBEANS

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	BEST 1
Emergence	●	●	●	●	●
Standability	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●
Soybean White Mold	●	●	●	●	●
Iron Deficiency Chlorosis	●	●	●	●	●



GH2722XF

BRAND

GOLD SERIES

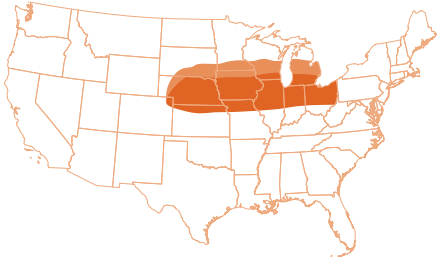
X TENDFLEX SOYBEANS

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	BEST 1
Emergence	●	●	●	●	●
Standability	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●
Soybean White Mold	●	●	●	●	●
Iron Deficiency Chlorosis	●	●	●	●	●



GH2922E3

BRAND

GOLD SERIES

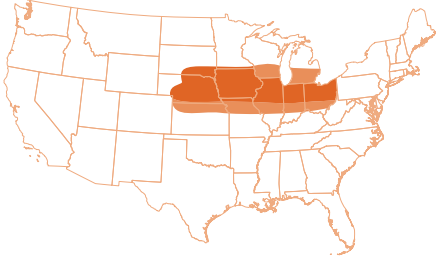
Enlist E3 SOYBEANS

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	BEST 1
Emergence	●	●	●	●	●
Standability	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●
Soybean White Mold	●	●	●	●	●
Iron Deficiency Chlorosis	●	●	●	●	●



GH3132E3

BRAND

GOLD SERIES

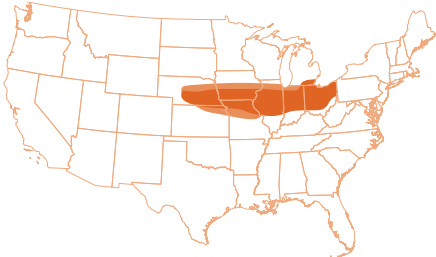
Enlist E3 SOYBEANS

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	BEST 1
Emergence	●	●	●	●	●
Standability	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●
Soybean White Mold	●	●	●	●	●
Frogeye Leaf Spot	●	●	●	●	●



GH3442XF

BRAND

GOLD SERIES

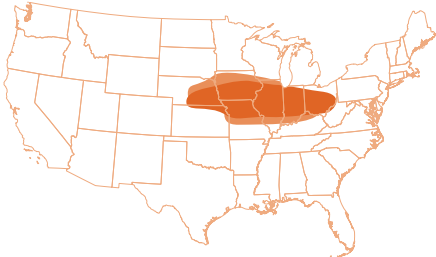
X TENDFLEX SOYBEANS

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	BEST 1
Emergence	●	●	●	●	●
Standability	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●
Soybean White Mold	●	●	●	●	●
Frogeye Leaf Spot	●	●	●	●	●



GH3582E3

BRAND

Enlist E3

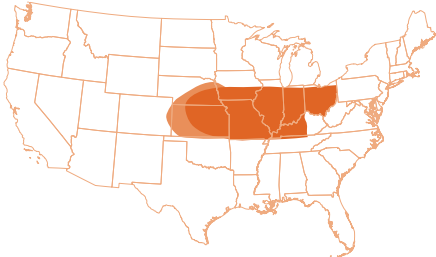
SOYBEANS

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	BEST 1
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



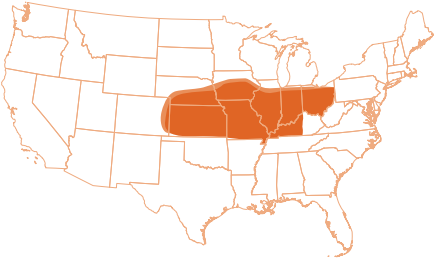
GH3732XF BRAND

GOLD SERIES 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

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



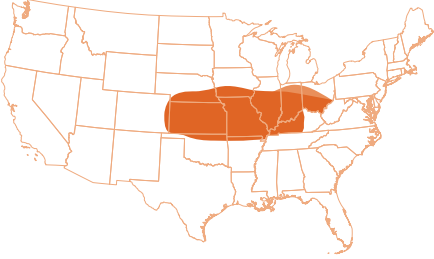
GH3922E3 BRAND

Enlist E3 SOYBEANS 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

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



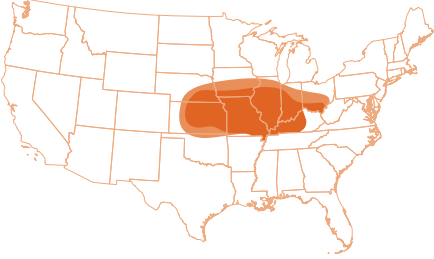
GH3952XF BRAND

GOLD SERIES 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

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



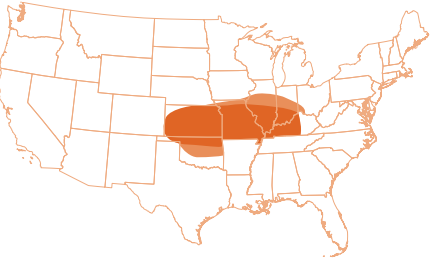
GH4222XF BRAND

GOLD SERIES 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

Rating	9	7	5	3	1	BEST
Emergence	●	●	●	●	●	●
Standability	●	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●	●
Southern Stem Canker	●	●	●	●	●	●
Frogeye Leaf Spot	●	●	●	●	●	●



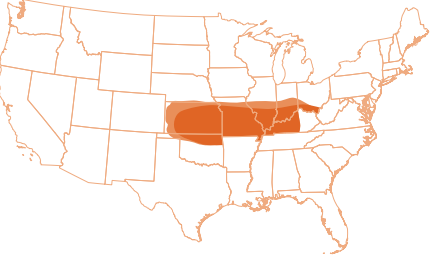
GH4452XFS BRAND

GOLD SERIES 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

Rating	9	7	5	3	1	BEST
Emergence	●	●	●	●	●	●
Standability	●	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●	●
Southern Stem Canker	●	●	●	●	●	●
Frogeye Leaf Spot	●	●	●	●	●	●



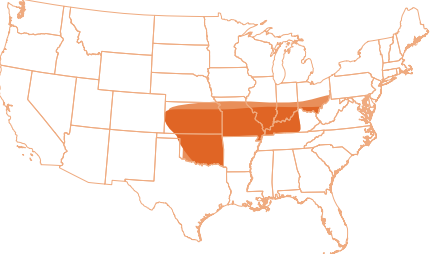
GH4612E3S BRAND

Enlist E3 SOYBEANS STS 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

Rating	9	7	5	3	1	BEST
Emergence	●	●	●	●	●	●
Standability	●	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	●	●
Sudden Death Syndrome	●	●	●	●	●	●
Southern Stem Canker	●	●	●	●	●	●
Frogeye Leaf Spot	●	●	●	●	●	●



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.

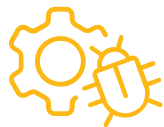
Control of these damaging pests provides:

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

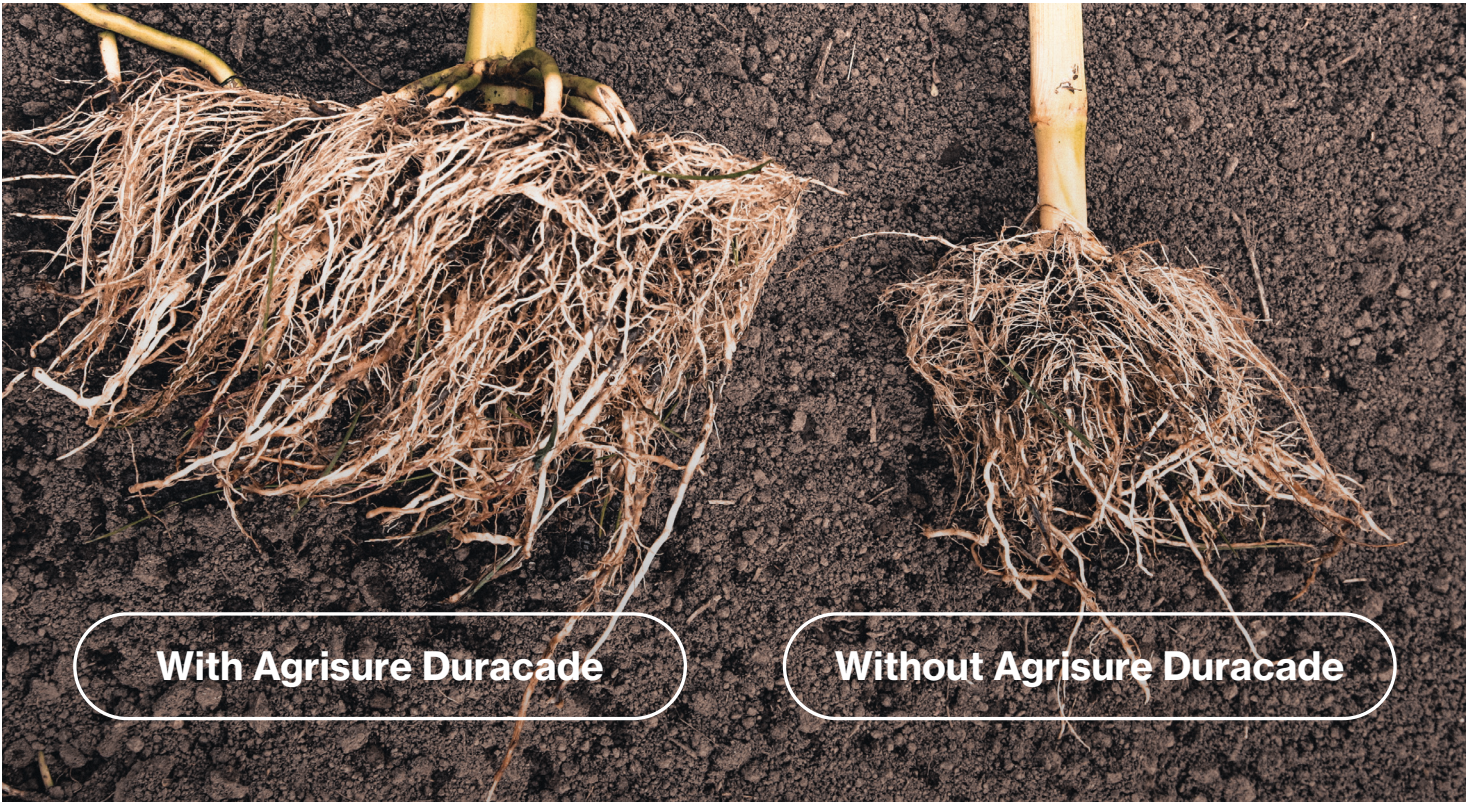
- > Stronger, more robust root systems that lead to:
 - Healthier plants
 - Fuller leaves that allow for increased photosynthesis and maximum grain fill
 - More robust stalks that stand tall



Increased Insect Control



Stronger Root Systems



AgrisureDuracade®

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

AgrisureViptera®

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

AgrisureArtesian®

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
AgrisureDuracade® 5222A E-Z Refuge®	[Agrisure]	[Duracade]	[5]	[2]	[2]	[2]	[A]	[E-Z Refuge]
AgrisureViptera® 3220A E-Z Refuge®	[Agrisure]	[Viptera]	[3]	[2]	[2]	[0]	[A]	[E-Z Refuge]
				BROAD LEPIDOPTERAN	CORN BORER	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		
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	Relative Maturity (RM)	GDUs to Silk	GDUs to Black Layer
	 	 	 		 			
G78C29		3220				78	1150	1890
G80Q01		3220A			GTA/LL	80	1150	1810
G82M47		3220				82	1210	2075
G85Z56	5222	3220				85	1220	2140
G84J92		3120A			GTA, Conv.-A	86	1200	2140
G88F37		3120A-LL				88	1205	2280
G90S99 <i>NEW</i>	5222 <i>NEW</i>	3220 <i>NEW</i>				90	1240	2290
G91V51	5222A <i>NEW</i>			3110A		91	1240	2300
G90Y04	5222A	3220A			GTA/LL	92	1265	2325
G94P48	5122A-LL					94	1260	2400
G95D32		3220			GT/LL	95	1280	2400
G95M41	5122					95	1245	2365
G96R61	5222					96	1275	2400
G97N86	5222	3220				97	1275	2400
G98L17	5122					98	1295	2410
G98M44 <i>NEW</i>	5122 <i>NEW</i>					98	1310	2410
G99E68	5122					99	1300	2445
G00H12	5122				GT/LL	100	1315	2420
G02K39	5122	3120				102	1305	2475
G02W74			3000GT		Conv.	102	1300	2445
G03B96 <i>NEW</i>	5122 <i>NEW</i>					103	1315	2475
G03C84	5122	3120				103	1355	2475
G03J49			3000GT			103	1355	2550
G03R40	5222					103	1335	2445
G04G36			3111A			104	1320	2550
G04S19	3122					104	1385	2570
G05K08	5122A					105	1310	2555
G06K93					GT/LL	106	1385	2530
G06Q68	5222	3220				106	1355	2560
G07F23			3111		GT, Conv.	107	1375	2570
G07G73 <i>NEW</i>	5122 <i>NEW</i>	3120 <i>NEW</i>	3000GT			107	1370	2550
G07V88			3000GT		GT	107	1375	2570

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.



AGRONOMIC CHARACTERISTICS											PLANT CHARACTERISTICS							DISEASE TOLERANCE											PRODUCT
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	Anthrachose Stalk Rot	Tar Spot	Fusarium Crown Rot	Common Rust	Southern Rust	Golden Harvest Hybrid Series
3	3	4	2	2	6	2	3	2	-		4	3	P	S-U	SF	L	R	-	-	4	-	-	4	-	-	2	-	-	G78C29
3	3	2	3	1	3	1	4	2	-		5	4	M	U	SF	M	R	-	4	4	-	-	3	-	-	3	-	-	G80Q01
3	2	2	4	4	3	4	2	4	-		4	4	M	P	SF	M	R	-	4	4	-	-	4	-	-	4	-	-	G82M47
3	2	4	3	2	3	3	3	3	-		3	4	P	S-U	SF	M	R	-	3	4	-	-	3	-	-	3	-	-	G85Z56
3	3	3	2	1	4	3	4	2	1		3	5	M	S-U	SF	M	R	-	3	4	-	-	3	2	-	2	-	-	G84J92
3	3	3	4	1	4	4	2	3	3		3	5	M	U	SF	L	R	-	3	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 <i>NEW</i>
3	3	5	4	1	3	4	3	3	6		3	4	M	U	SF	M	R	-	3	4	-	-	3	4	3	5	-	-	G91V51
2	3	4	2	1	3	3	3	2	3		2	2	F	P	SF	M	R	-	3	4	3	-	3	3	4	3	-	-	G90Y04
3	2	3	3	1	2	3	2	3	-		3	2	F	U	SF	L	R	-	3	3	4	-	3	3	7	3	-	-	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	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	4	-	-	G95M41
2	2	3	2	2	2	3	3	2	-		2	2	F	U	SD	M	R	-	2	4	5	-	3	3	3	2	-	-	G96R61
2	2	4	2	3	3	3	3	3	5		3	2	M	U	SD	L	R	4	4	4	3	-	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	-	4	-	-	G98L17
3	3	4	4	2	4	5	3	2	-		4	4	M	P	F	M	R	5	4	4	5	4	-	5	5	5	-	-	G98M44 <i>NEW</i>
3	2	2	3	3	4	2	3	3	-		3	3	M	S-U	SF	M	R	2	2	5	5	-	3	3	4	4	-	-	G99E68
3	3	2	4	2	2	4	3	3	-		4	4	M	S-U	SF	M	R	3	5	5	3	-	3	-	2	4	-	-	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	4	3	4	4	6		5	6	M	S-U	SF	S	R	3	2	6	5	-	4	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	3	-	-	G03B96 <i>NEW</i>
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	4	3	4	G03C84
3	2	4	5	2	3	3	2	4	2		2	3	M	P	SF	M	Pi	4	6	2	-	4	4	5	-	3	3	-	G03J49
2	3	2	2	3	2	3	4	2	-		3	3	M	U	SD	M	R	4	5	3	3	5	3	-	3	2	-	3	G03R40
4	2	2	3	1	3	5	3	4	-		5	6	M	S-U	SF	L	R	3	3	3	6	3	4	5	3	5	-	5	G04G36
4	3	4	3	3	3	4	3	5	-		2	2	M	S-U	SF	M	Pi	4	4	3	4	4	2	2	4	4	-	-	G04S19
3	4	4	3	1	3	6	3	4	-		5	6	P	U	SD	M	R	4	3	4	6	4	3	4	5	5	-	5	G05K08
3	3	3	3	2	4	4	4	3	-		3	3	M	S-U	F	M	R	5	4	3	-	3	4	4	-	5	4	-	G06K93
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	G06Q68
3	3	3	2	2	3	4	3	4	-		5	5	M	S-U	SF	M	Pi	3	2	4	5	5	3	-	3	3	5	6	G07F23
3	3	3	3	2	4	3	4	4	-		3	4	M	S-U	SF	L	Pi	3	3	5	3	5	-	3	5	5	-	3	G07G73 <i>NEW</i>
3	3	5	3	2	3	5	2	5	-		3	3	F	U	SF	M	Pi	5	3	3	4	3	5	4	-	5	4	-	G07V88

Rating Scale

1 = Best
9 = Worst
- = Not Available

Test Weight

1 = High
9 = Low

Plant Height

1 = Tall
9 = Short

Ear Height

1 = High
9 = Low

Root Type

P = Penetrating
M = Modified
F = Fibrous

Leaf Type

U = Upright
S-U = Semi-Upright
P = Pendulum

Ear Flex

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

Husk Cover

S = Short
M = Medium
L = Long

Cob Color

R = Red
Pi = Pink
W = White










Disease Tolerance

1 = High
9 = Low
- = Not Available

Drought

Agrisure Artesian
water-optimized hybrid

CORN CHARACTERISTICS

PRODUCT	TRAIT OFFERS					MATURITY INFORMATION		
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	Relative Maturity (RM)	GDUs to Silk	GDUs to Black Layer
	 Agrisure Duracade®  Agrisure 3122	 Agrisure 3120  Agrisure Viptera	 Agrisure 3000GT  Agrisure Viptera 3111	 Agrisure Viptera 3110	 Agrisure GT  Agrisure GT/LL			
G08D29	5122A	3120A				108	1405	2560
G08M20	5122	3120				108	1365	2575
G08R52		3220				108	1370	2580
G07B39			3111A			109	1375	2570
G09A86		3330			GT/LL	109	1385	2580
G09T26 <i>NEW</i>		3120 <i>NEW</i>				109	1420	2620
G09Y24	5222A	3220A				109	1420	2570
G10C45	5122					110	1405	2570
G10D21	5332 <i>NEW</i>	3330				110	1410	2570
G10K03		3220				110	1440	2625
G10L16	5222A	3220A			Conv.-A	110	1395	2620
G10S30	5222					110	1405	2570
G11B63		3120A			GTA/LL	111	1425	2570
G11V76	5122	3120				111	1430	2600
G12S75	5122					112	1430	2630
G12U17	5122	3120				112	1425	2620
G13D55 <i>NEW</i>		3220 <i>NEW</i>				113	1420	2630
G13E90			3111			113	1405	2630
G13H15	5122	3120				113	1420	2640
G13M88				3110		113	1430	2680
G13N18			3111			113	1415	2630
G13P84 <i>NEW</i>		3120 <i>NEW</i>				113	1450	2700
G13T41	5122	3120				113	1435	2605
G13Z50	5222	3220				113	1435	2650
G14K50		3220				114	1455	2640
G14N11	5222					114	1425	2660
G14R38	3122	3120			GT, Conv.	114	1435	2630
G15J91		3220				115	1455	2665
G15L32	5222	3330				115	1455	2645
G16K01			3111		GT	116	1465	2690
G16Q82 <i>NEW</i>	5222A <i>NEW</i>	3120A <i>NEW</i>				116	1440	2700
G17E95 <i>NEW</i>				3110 <i>NEW</i>		117	1465	2650
G18D87			3111			118	1480	2700
G18H82			3111			118	1495	2690

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.



AGRONOMIC CHARACTERISTICS											PLANT CHARACTERISTICS							DISEASE TOLERANCE												PRODUCT
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	Anthrachnose Stalk Rot	Tar Spot	Fusarium Crown Rot	Common Rust	Southern Rust	Golden Harvest Hybrid Series		
2	3	3	3	1	2	5	4	4	-	4	5	M	S-U	SF	M	Pi	4	2	3	2	6	4	-	4	4	4	5	G08D29		
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	G08M20		
3	3	2	2	2	4	4	4	4	-	5	5	M	U	SF	M	R	5	3	4	4	5	-	-	-	5	-	-	G08R52		
4	2	5	4	1	4	4	5	4	-	3	4	M	P	SF	M	Pi	5	4	4	5	5	3	4	-	4	-	6	G07B39		
3	2	3	2	3	5	4	4	4	-	3	4	M	S-U	SD	M	Pi	2	5	4	4	4	5	-	4	4	5	4	G09A86		
2	2	2	2	3	2	5	3	5	-	6	4	P	S-U	SF	M	R	4	3	4	4	5	-	5	3	4	-	4	G09T26 NEW		
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	G09Y24		
4	3	2	2	3	5	4	3	3	-	3	3	M	S-U	SF	M	R	3	3	2	3	4	3	-	-	5	4	6	G10C45		
3	2	3	3	3	5	3	4	4	-	3	2	M	S-U	SD	S	Pi	2	2	3	4	-	-	2	3	4	3	4	G10D21		
3	4	4	4	3	2	2	2	5	-	3	3	M	S-U	F	M	R	5	3	4	4	5	-	-	-	3	-	-	G10K03		
2	3	4	4	1	4	5	2	4	-	5	6	M	S-U	SF	M	R	4	6	3	3	4	3	-	-	4	7	4	G10L16		
3	3	4	3	4	3	5	4	4	-	5	4	M	S-U	F	M	Pi	6	2	4	4	4	2	-	-	4	-	4	G10S30		
4	4	3	4	1	3	2	3	3	-	3	3	F	U	F	L	Pi	4	4	3	3	5	3	-	-	6	-	5	G11B63		
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	G11V76		
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	G12S75		
3	3	4	2	4	2	2	2	4	-	3	3	M	S-U	SF	M	R	4	3	5	3	5	-	-	-	2	-	-	G12U17		
4	4	3	2	3	2	2	4	2	-	3	3	M	S-U	SF	M	Pi	3	3	3	2	3	-	5	3	4	-	3	G13D55 NEW		
3	3	4	4	2	5	3	3	4	-	3	3	F	S-U	F	M	Pi	6	3	3	-	3	-	-	-	4	-	-	G13E90		
3	4	3	2	2	3	3	3	4	-	3	3	M	U	SD	M	R	3	4	3	4	5	-	-	-	2	-	-	G13H15		
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	G13M88		
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	G13N18		
3	3	2	3	3	4	3	3	2	-	5	5	M	U	SD	M	R	4	2	2	3	3	-	5	4	4	-	2	G13P84 NEW		
4	3	2	2	2	2	2	3	3	-	4	5	M	S-U	SF	L	R	4	2	5	3	4	2	-	-	4	2	4	G13T41		
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	G13Z50		
4	4	5	2	2	4	3	3	6	-	4	4	F	P	F	L	Pi	6	3	2	-	3	5	4	-	4	-	-	G14K50		
2	2	2	4	3	2	3	3	5	-	3	2	M	U	SF	M	Pi	5	5	4	5	4	3	-	-	4	7	5	G14N11		
3	3	2	3	3	3	4	3	3	-	3	2	M	U	SD	M	R	5	4	4	4	4	3	4	-	3	3	4	G14R38		
4	4	2	3	3	3	4	4	3	-	3	5	M	U	SF	L	W	4	2	4	3	3	-	2	2	4	7	4	G15J91		
2	3	3	4	4	3	2	4	2	-	4	5	M	S-U	SF	L	R	3	4	4	3	3	3	-	-	4	7	5	G15L32		
4	3	5	3	2	3	3	2	4	-	4	4	M	P	F	M	Pi	5	4	3	4	3	5	3	-	4	6	5	G16K01		
3	3	2	2	1	4	3	4	3	-	3	3	M	S-U	SF	L	R	3	3	3	4	3	-	4	5	3	-	3	G16Q82 NEW		
3	4	3	2	5	3	3	3	2	-	2	3	F	S-U	SF	L	R	3	4	2	-	4	-	-	-	2	4	3	G17E95 NEW		
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	G18D87		
4	4	4	3	4	5	5	3	3	-	2	3	M	S-U	SF	M	W	6	7	5	-	5	-	3	-	-	-	-	G18H82		

Rating Scale

1 = Best
9 = Worst
- = Not Available

Test Weight

1 = High
9 = Low

Plant Height

1 = Tall
9 = Short

Ear Height

1 = High
9 = Low

Root Type

P = Penetrating
M = Modified
F = Fibrous

Leaf Type

U = Upright
S-U = Semi-Upright
P = Pendulum

Ear Flex

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

Husk Cover

S = Short
M = Medium
L = Long

Cob Color

R = Red
Pi = Pink
W = White

Disease Tolerance

1 = High
9 = Low
- = Not Available

Drought

Agrisure Artesian
water-optimized hybrid

CORN AGRONOMIC MANAGEMENT

Product		Agronomic Management and Placement Traits														End-Use Traits								
Golden Harvest Hybrid Series	Relative Maturity (RM)	Seeding Rate (x1000k)							Adaptation to Soil Types/ Yield Environments						Starch	Protein	Oil	Beef Feed-to-Gain						
		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										
		G78C29	78	26.0	33.0	37.5	41.0	44.0	4	2	B	G	G	B					G	B	B	F	G	G
		G80Q01	80	26.0	29.5	30.5	32.0	33.0	2	3	G	B	G	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	B	P	F	G
		G85Z56	85	24.5	31.5	34.0	36.5	38.5	4	3	B	B	F	B					B	B	G	G	F	B
		G84J92	86	26.0	33.0	37.5	41.0	44.0	3	2	G	B	F	B					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	G	F	B
		G90S99 <i>NEW</i>	90	22.0	28.0	32.0	35.0	37.0	4	3	G	B	F	B					B	G	G	B	F	B
		G91V51	91	26.0	33.0	36.0	37.0	38.5	5	4	F	B	P	B					B	G	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	G	F	G						
G94P48	94	26.0	33.0	35.0	36.0	36.5	3	3	G	B	G	G	B	B	F	B	B	G						
G95D32	95	26.0	31.0	34.0	36.5	39.5	3	2	G	B	G	B	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	B	F	F	G						
G96R61	96	26.0	33.0	37.5	40.5	43.5	3	2	G	B	F	G	G	B	G	B	F	F						
G97N86	97	26.0	31.0	34.0	37.0	40.0	4	2	G	P	G	B	F	G	G	B	F	B						
G98L17	98	22.0	28.0	32.0	35.0	37.0	4	4	B	G	B	B	B	G	B	G	F	B						
G98M44 <i>NEW</i>	98	25.5	29.5	33.0	36.5	40.0	4	4	F	B	G	F	G	F	G	G	B	G						
G99E68	99	26.0	33.0	36.5	39.5	42.5	2	3	G	G	G	B	G	B	G	G	G	F						
G00H12	100	24.5	31.5	33.5	36.0	38.5	2	4	G	G	B	B	G	G	G	G	B	F						
G02K39	102	26.0	30.5	34.5	38.5	42.5	3	2	B	B	F	B	B	B	G	G	B	B						
G02W74	102	26.0	33.0	34.5	35.0	35.5	2	2	G	B	F	B	G	G	G	G	F	G						
G03B96 <i>NEW</i>	103	19.0	23.0	31.0	37.0	39.5	3	4	G	F	G	G	G	G	G	G	F	F						
G03C84	103	23.5	27.0	29.5	33.5	37.0	3	4	F	B	F	B	B	F	G	F	B	G						
G03J49	103	24.5	30.0	30.0	32.0	33.5	4	5	G	B	G	B	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	B	G	G	B	F						
G04G36	104	23.5	28.0	33.0	38.0	42.5	2	3	F	B	F	G	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	B	F	F	B						
G05K08	105	22.5	27.0	30.0	34.5	39.0	4	3	G	B	G	B	B	G	G	G	B	B						
G06K93	106	19.0	24.0	30.0	41.0	44.0	3	3	G	B	G	F	B	F	B	F	B	G						
G06Q68	106	26.0	33.0	35.5	38.0	40.0	3	3	B	B	F	B	B	G	B	F	F	G						
G07F23	107	24.0	28.0	32.0	36.0	40.0	3	2	G	B	P	B	B	G	G	F	B	B						
G07G73 <i>NEW</i>	107	22.0	28.0	32.0	35.0	37.0	3	3	G	B	G	B	G	G	G	F	B	G						
G07V88	107	21.0	27.0	31.0	37.0	39.5	5	3	G	B	F	B	B	P	B	G	B	B						
G08D29	108	22.5	26.5	30.5	35.0	39.0	3	3	B	B	F	B	B	G	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			
Golden Harvest Hybrid Series	Relative Maturity (RM)	Seeding Rate (x1000k)							Adaptation to Soil Types/ Yield Environments						Starch	Protein	Oil	Beef Feed-to-Gain	
		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					
G08M20	108	22.0	28.0	32.0	35.0	37.0	3	3	G	G	G	B	B	F	B	F	B	B	
G08R52	108	24.5	30.0	35.5	41.0	44.0	2	2	G	B	F	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	G	F	B	G	
G09A86	109	26.0	33.0	37.5	41.0	43.5	3	2	G	G	F	B	B	B	G	G	G	B	
G09T26 <i>NEW</i>	109	25.5	30.0	34.5	39.0	43.5	2	2	G	F	F	B	G	G	G	F	B	B	
G09Y24	109	23.0	27.0	29.5	34.0	38.0	4	4	F	B	P	B	B	G	G	G	B	F	
G10C45	110	19.0	24.0	31.5	41.0	44.0	2	2	G	G	B	B	B	F	G	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	G	
G10K03	110	19.0	24.0	28.0	33.0	38.0	4	4	G	G	G	B	G	F	G	F	B	G	
G10L16	110	22.0	26.5	29.5	34.0	38.5	4	4	B	B	F	B	G	G	G	F	G	G	
G10S30	110	22.0	28.0	32.0	35.0	37.0	4	3	F	G	G	B	G	G	F	F	B	G	
G11B63	111	19.0	23.0	27.5	34.0	39.5	3	4	G	B	G	G	F	P	B	G	F	B	
G11V76	111	19.5	24.5	29.0	33.5	38.0	2	3	G	G	G	G	G	G	G	G	F	G	
G12S75	112	26.0	30.0	33.0	36.0	39.5	3	2	B	F	F	B	B	B	G	G	F	G	
G12U17	112	25.5	28.0	31.0	33.5	36.5	4	2	F	F	G	B	G	B	B	F	G	G	
G13D55 <i>NEW</i>	113	20.0	25.5	31.5	37.0	42.5	3	2	G	G	G	G	F	G	-	-	-	-	
G13E90	113	22.0	25.0	28.5	31.5	35.0	4	4	B	B	G	B	B	F	G	F	F	G	
G13H15	113	26.0	33.0	35.0	36.5	38.5	3	2	G	G	F	B	B	B	G	G	B	G	
G13M88	113	26.0	33.0	36.0	37.5	39.0	2	3	G	G	G	B	G	G	F	B	B	G	
G13N18	113	26.0	29.5	30.0	31.0	31.5	5	4	B	G	G	B	G	F	F	G	F	B	
G13P84 <i>NEW</i>	113	26.0	32.5	34.0	35.5	36.5	2	3	G	F	P	G	G	G	G	G	G	G	
G13T41	113	20.0	26.0	32.0	38.0	44.0	2	2	B	B	P	B	B	B	G	F	B	G	
G13Z50	113	22.0	28.0	32.0	35.0	37.0	2	4	G	G	G	B	B	B	G	F	F	B	
G14K50	114	26.0	28.0	31.0	32.5	34.0	5	2	G	B	F	B	B	F	G	F	G	G	
G14N11	114	26.0	29.5	33.0	36.5	40.0	2	4	B	G	G	B	G	B	B	F	F	B	
G14R38	114	22.0	28.0	32.0	35.0	37.0	2	3	B	G	F	B	B	B	G	F	G	B	
G15J91	115	26.0	29.0	32.0	35.0	38.5	2	3	F	G	G	B	B	B	G	G	G	G	
G15L32	115	19.0	24.0	29.5	35.5	41.5	3	4	G	G	B	B	G	G	B	F	G	B	
G16K01	116	26.0	33.0	34.5	31.5	31.5	5	3	G	B	P	B	B	F	G	F	G	G	
G16Q82 <i>NEW</i>	116	22.0	26.0	29.5	33.0	36.5	2	2	G	B	G	B	B	B	G	G	F	F	
G17E95 <i>NEW</i>	117	22.0	28.0	32.0	35.0	37.0	3	2	G	F	F	B	G	G	F	G	G	F	
G18D87	118	26.0	32.5	34.5	36.0	38.0	4	3	B	G	G	B	G	G	G	B	F	F	
G18H82	118	19.0	23.0	24.5	35.5	39.5	4	3	G	G	G	B	G	F	B	G	F	F	

G96R61-5222 E-Z Refuge Brand

RM: 96

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

G98M44-5122 E-Z Refuge Brand **NEW**

NEW // RM: 98

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

G99E68-5122 E-Z Refuge Brand

RM: 99

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

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

E100H1-5122 E-Z Refuge Brand

RM: 100

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

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

RM: 102

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

G03B96-5122 E-Z Refuge Brand **NEW**

NEW // RM: 103

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

G07G73-5122 E-Z Refuge Brand **NEW**
G07G73-3120 E-Z Refuge Brand **NEW**

NEW // RM: 107

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

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

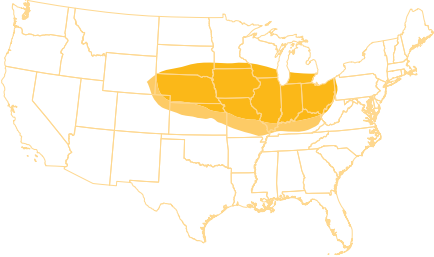
RM: 108

- Maximizes yield when it rains, increases yield potential when it doesn't
- Excellent emergence
- Performs well under a wide range of populations

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

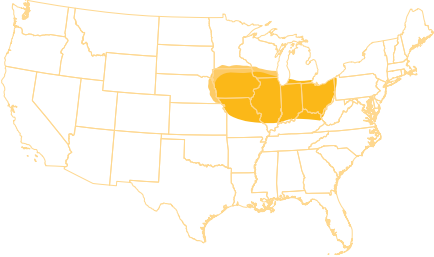
Rating	9	7	5	3	BEST 1
Emergence	●	●	●	●	●
Root Strength	●	●	●	●	●
Stalk Strength	●	●	●	●	●
Staygreen	●	●	●	●	●
Drydown	●	●	●	●	●
Drought	●	●	●	●	●



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

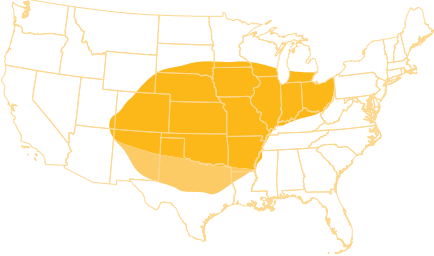
Rating	9	7	5	3	BEST 1
Emergence	●	●	●	●	●
Root Strength	●	●	●	●	●
Stalk Strength	●	●	●	●	●
Staygreen	●	●	●	●	●
Drydown	●	●	●	●	●
Drought	●	●	●	●	●



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

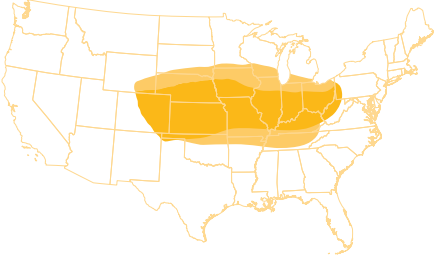
Rating	9	7	5	3	BEST 1
Emergence	●	●	●	●	●
Root Strength	●	●	●	●	●
Stalk Strength	●	●	●	●	●
Staygreen	●	●	●	●	●
Drydown	●	●	●	●	●
Drought <small>Season-long Protection</small>	●	●	●	●	●



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

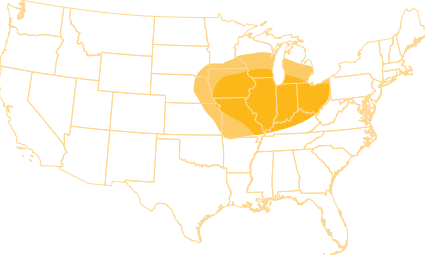
Rating	9	7	5	3	BEST 1
Emergence	●	●	●	●	●
Root Strength	●	●	●	●	●
Stalk Strength	●	●	●	●	●
Staygreen	●	●	●	●	●
Drydown	●	●	●	●	●
Drought	●	●	●	●	●



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

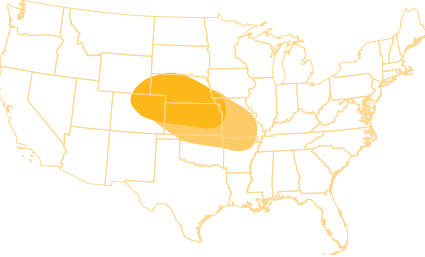
Rating	9	7	5	3	BEST 1
Emergence	●	●	●	●	●
Root Strength	●	●	●	●	●
Stalk Strength	●	●	●	●	●
Staygreen	●	●	●	●	●
Drydown	●	●	●	●	●
Drought	●	●	●	●	●



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

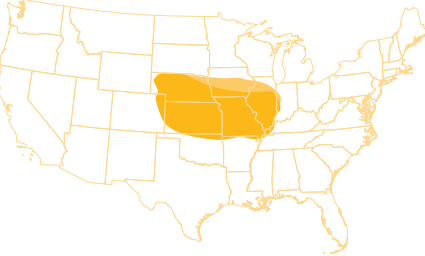
Rating	9	7	5	3	BEST 1
Emergence	●	●	●	●	●
Root Strength	●	●	●	●	●
Stalk Strength	●	●	●	●	●
Staygreen	●	●	●	●	●
Drydown	●	●	●	●	●
Drought	●	●	●	●	●



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

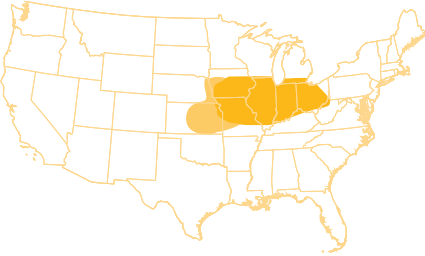
Rating	9	7	5	3	BEST 1
Emergence	●	●	●	●	●
Root Strength	●	●	●	●	●
Stalk Strength	●	●	●	●	●
Staygreen	●	●	●	●	●
Drydown	●	●	●	●	●
Drought	●	●	●	●	●



OUTSTANDING ROOT STRENGTH WITH PROVEN STALKS FOR SEASON-LONG STANDABILITY

- Solid agronomics with great test weight for the Central and Eastern Corn Belt
- Excellent choice for medium and high yield environments
- Maximum yield potential achieved at higher populations

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

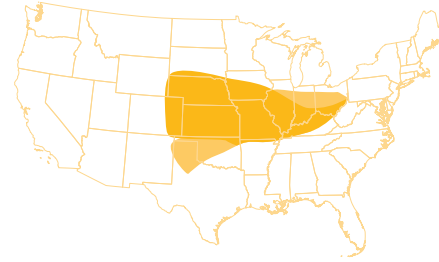


G15J91-3220 E-Z Refuge Brand

RM: 115

- 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	●	●	●	●	●	●



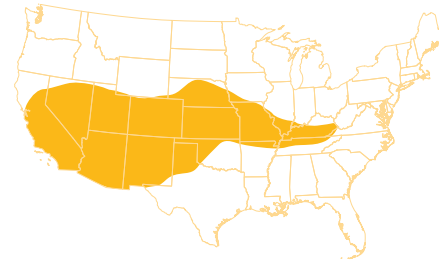
G16K01-3111 Brand
G16K01-GT Brand

E116K4-3000GT Brand

RM: 116

- 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	●	●	●	●	●	●

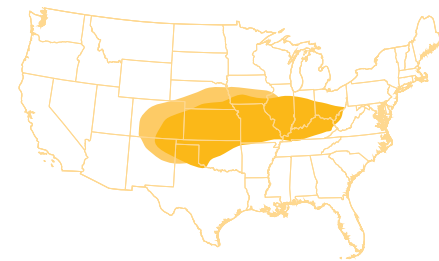


G16Q82-5222A E-Z Refuge Brand **NEW**
G16Q82-3120A E-Z Refuge Brand **NEW**

NEW // RM: 116

- 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	●	●	●	●	●	●



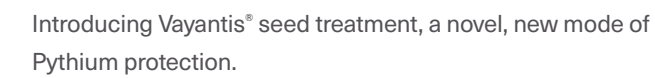
G17E95-3110 Brand **NEW**

NEW // RM: 117

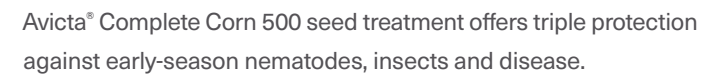
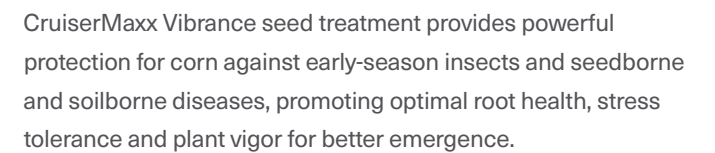
- Semi-flex ear type maximizes yield potential across populations
- Dependable root and stalk strength for season-long standability
- Positive response to increased management

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

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.



- > 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 INTEGRO® Solo (ethaboxam) + Base Corn – Broad Acre
 - +1.6 bu/A over Base



Corn Seed Treatments

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.



Golden Harvest
Corn with More
Profit Potential



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).¹

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.^{2,3}

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.⁴ 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.

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

²Syngenta production data 2012-2017.

³Growers must comply with specific yet simple stewardship requirements.

⁴University 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											
Enogen Hybrid Series	Above/Below-Ground Insect Protection E-Z Refuge ✔ AgrisureDuracade	Above/Below-Ground Insect Protection ✔ Agrisure3000GT	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	
	E080Q1	5122A	80	1150	1810	3	3	2	3	1	3	1	4	2	-	5	4	M	U	SF	M	R	-	4	4	-	-	3	-	-	3	-	-	
	E086J9	5122A	86	1200	2140	3	3	3	2	1	4	3	4	2	1	3	5	M	S-U	SF	M	R	-	3	4	-	-	3	2	-	2	-	-	
	E092T4		3000GT	92	1265	2350	3	3	5	4	3	3	3	2	5	3	2	2	F	P	F	M	R	5	3	6	-	-	3	4	-	5	2	-
	E092W5NEW	5122ANew		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		3011A	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		3000GT	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
E107C1NEW	5122New		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		3000GT	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	
E110F4NEW	5122New		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	
E111V7NEW	5122New		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	
E112S5NEW	5122New		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		3000GT	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		3000GT	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		3000GT	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	3	-	4	6	5	
E118D8		3000GT	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	Plant Height 1 = Tall 9 = Short	Root Type P = Penetrating M = Modified F = Fibrous	Ear Flex F = Flex SF = Semi-Flex SD = Semi-Determinate D = Determinate	Cob Color R = Red Pi = Pink W = White	Drought Agrisure Artesian water-optimized hybrid
Test Weight 1 = High 9 = Low	Ear Height 1 = High 9 = Low	Leaf Type U = Upright S-U = Semi-Upright P = Pendulum	Husk Cover S = Short M = Medium L = Long	Disease Tolerance 1 = High 9 = Low - = Not Available	

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.



ENOGEN HYBRID AGRONOMIC MANAGEMENT

PRODUCT	AGRONOMIC MANAGEMENT AND PLACEMENT TRAITS														END-USE TRAITS		
Enogen Hybrid Series	Relative Maturity (RM)	Seeding Rate (x1000k)							Adaptation to Soil Types/Yield Environments						Starch	Protein	Oil
		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			
E080Q1	80	26.0	29.5	30.5	32.0	33.0	2	3	G	B	G	G	B	G	B	G	G
E086J9	86	26.0	33.0	37.5	41.0	44.0	3	2	G	B	F	B	B	B	B	F	F
E092T4	92	26.0	30.5	28.0	29.5	31.5	5	4	G	G	G	B	G	B	G	G	F
E092W5 NEW	92	26.0	33.0	36.0	37.0	38.5	5	4	F	B	P	B	B	G	G	F	G
E095D3	95	26.0	31.0	34.0	36.5	39.5	3	2	G	B	G	B	B	B	B	F	F
E100H1	100	24.5	31.5	33.5	36.0	38.5	2	4	G	G	B	B	G	G	G	G	B
E101P5	101	22.5	28.5	34.5	40.5	44.0	4	2	G	B	G	B	B	B	G	B	F
E105T1	105	23.0	27.0	30.0	34.0	38.5	5	2	G	B	G	B	B	B	B	F	F
E106Q6	106	26.0	33.0	35.5	38.0	40.0	3	3	B	B	F	B	B	G	B	F	F
E107C1 NEW	107	26.0	32.0	33.5	35.5	37.5	2	3	G	G	P	F	G	G	G	F	F
E108M2	108	22.0	28.0	32.0	35.0	37.0	3	3	G	G	G	B	B	F	B	F	B
E109R3	109	19.0	24.0	31.0	41.0	44.0	5	2	G	B	F	B	B	B	B	G	F
E109Y2	109	23.0	27.0	29.5	34.0	38.0	4	4	F	B	P	B	B	G	G	G	B
E110F4 NEW	110	26.0	30.0	33.0	33.0	35.0	4	4	F	F	G	G	G	G	G	F	P
E111C6	111	19.0	23.0	27.5	34.0	39.5	3	4	G	B	G	G	G	F	P	B	F
E111V7 NEW	111	19.5	24.5	29.0	33.5	38.0	2	3	G	G	G	G	G	G	G	G	F
E112S5 NEW	112	26.0	30.0	33.0	36.0	39.5	3	2	B	F	F	B	B	B	G	G	F
E113D3	113	22.0	25.0	28.5	31.5	35.0	4	4	B	B	G	B	B	F	G	F	F
E113M8	113	26.0	33.0	36.0	37.5	39.0	2	3	G	G	G	B	G	G	F	B	B
E113N8	113	26.0	29.5	30.0	31.0	31.5	5	4	B	G	G	B	G	F	F	G	F
E113Z5	113	22.0	28.0	32.0	35.0	37.0	2	4	G	G	G	B	B	B	G	F	F
E114H6	114	26.0	29.0	31.0	33.5	36.0	4	5	G	B	F	B	B	F	G	F	G
E116K4	116	26.0	33.0	34.5	31.5	31.5	5	3	G	B	P	B	B	F	G	F	G
E118D8	118	26.0	32.5	34.5	36.0	38.0	4	3	B	G	G	B	G	G	G	B	F

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.

SILAGE HYBRID CHARACTERISTICS

Product		Agronomic Characteristics						Disease Tolerance		Agronomic Research Ratings											
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)	Feed Effect On*				
																	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
G90S99NEW	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	B	G	B	B
G94P48	94	3	3	1	3	3	2	-	3	G	B	B	G	G	B	B	B	G	F	B	F
G95D32	95	3	3	2	2	3	4	4	3	G	F	B	F	B	B	G	G	G	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	G	B	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
G98M44NEW	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
G03B96NEW	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	B	F	B	G
G04S19	104	4	4	3	4	2	2	4	3	B	F	G	G	G	G	G	G	G	B	G	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	G	F	G	F
G07F23	107	3	3	2	4	5	5	3	4	B	G	G	G	G	F	G	G	G	B	B	B

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

Test Weight
1 = High
9 = Low

Plant Height
1 = Tall
9 = Short

Ear Height
1 = High
9 = Low

Root Type
P = Penetrating
M = Modified
F = Fibrous

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

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

Husk Cover
S = Short
M = Medium
L = Long

Cob Color
R = Red
Pi = Pink
W = White

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

Drought
Agrisure Artesian
water-optimized hybrid

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		Agronomic Characteristics						Disease Tolerance		Agronomic Research Ratings														
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)	Feed Effect On*							
																	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	G	B	B	B	B	G	B	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	G	F	G	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	G	F	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	F	G	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	G	F	G	F			
G14K50	114	4	5	2	3	4	4	6	2	B	F	B	G	B	B	G	B	G	B	G	B			
G14N11	114	2	2	3	3	3	2	5	4	G	G	B	G	B	F	G	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	G	B	G			
G17E95NEW	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	G	G	G	G	G	G	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.

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.

45

SILAGE

SILAGE

46

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

EMAIL
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.syngentastewardship.com

Take Action Education Platform
www.IWillTakeAction.com

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












Agreement Submission
Agreements@agdata.com

Stewardship Support
syngenta.stewardship@syngenta.com

Regulatory and Market Status of Agricultural Biotechnology Products
www.biotradestatus.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	SIZE REQUIREMENT	DISTANCE REQUIREMENTS
		(Corn-Growing Region)	(Cotton-Growing Region)	
ABOVE- AND BELOW-GROUND TRAIT STACKS	 AgrisureDuracade <small>5332 E-Z Refuge¹</small>	No additional refuge required	20% supplemental refuge ²	Within or adjacent ¹
	 AgrisureDuracade <small>5222 E-Z Refuge¹</small>	No additional refuge required	20% supplemental refuge ²	Within or adjacent ¹
	 AgrisureDuracade <small>5122 E-Z Refuge¹</small>	No additional refuge required	20% supplemental refuge ²	Within or adjacent ¹
	 Agrisure3122 <small>E-Z Refuge¹</small>	No additional refuge required	20% supplemental refuge ²	Within or adjacent ¹
	 AgrisureViptera <small>3111</small>	20%	20%	Within or adjacent ²
	 AgrisureArtesian <small>3011A</small>	20%	50%	Within or adjacent ²
	 Agrisure3000GT	20%	50%	Within or adjacent ²
ABOVE-GROUND TRAIT STACKS	 AgrisureViptera <small>3330 E-Z Refuge¹</small>	No additional refuge required	20% supplemental refuge	Within, adjacent, or up to 1/2 mile away ¹
	 AgrisureViptera <small>3220 E-Z Refuge¹</small>	No additional refuge required	20% supplemental refuge	Within, adjacent, or up to 1/2 mile away ¹
	 Agrisure3120 <small>E-Z Refuge¹</small>	No additional refuge required	20% supplemental refuge	Within, adjacent, or up to 1/2 mile away ¹
	 AgrisureViptera <small>3110</small>	20%	20%	Within, adjacent, or up to 1/2 mile away

Refuge size is calculated by applying the appropriate percentage (e.g., 20%, 50%) to the TOTAL CORN ACRES.
¹Only applicable in the cotton-growing region where a supplemental 20% refuge is required for this product.
² 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®, Liberty® and the Water Droplet logo are registered trademarks of BASF Corporation. HERCULEX® and the HERCULEX Shield are trademarks of Dow AgroSciences, LLC. HERCULEX Insect Protection technology by Dow AgroSciences. YieldGard VT Pro® is a registered trademark used under license from the Bayer Group. The Liberty Link® trait may be protected under numerous United States patents. More information about Agrisure Duracade is available at <http://www.biotradestatus.com/>.

OUR PROGRAMS



The Golden AdvantageSM 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: _____

Field Name: _____

Hybrid: _____

Population: _____

Management Considerations: _____

Soybean Crop Planning

Field Name: _____

Variety: _____

Population: _____

Management Considerations: _____

Field Name: _____

Variety: _____

Population: _____

Management Considerations: _____

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 for more information and to find and contact your local Golden Harvest Seed Advisor.

© 2021 Syngenta. **Important: Always read and follow label instructions. Some products may not be registered for sale or use in all states or counties. Please check with your local extension service to ensure registration status.** AAtrex 4L, AAtrex Nine-O, Acuron, Agri-Flex, Agri-Mek 0.15EC, Agri-Mek SC, Avicta 500FS, Avicta Complete Corn 250, Avicta Complete Corn 500, Avicta Duo Corn, Avicta Duo 250 Corn, Avicta Duo CPT20, Avicta Duo Cotton, Besiege, Bicep II Magnum, Bicep II Magnum FC, Bicep Lite II Magnum, Callisto Xtra, Cyclone SL 2.0, Denim, Endigo ZC, Endigo ZCX, Epi-Mek 0.15EC, Expert, Force, Force 3G, Force CS, Force 6.5G, Force Evo, Gramoxone SL, Gramoxone SL 2.0, Gramoxone SL 3.0, Karate with Zeon Technology, Lamcap, Lamcap II, Lamdec, Lexar, Lexar EZ, Lumax, Lumax EZ, Medal II ATZ, Minecto Pro, Proclaim, Tavium Plus VaporGrip Technology, Voliam Xpress and Warrior II with Zeon Technology are Restricted Use Pesticides. Avicta Complete Corn 250 is a Restricted Use Pesticide. For use by certified applicators only. Growers planting Avicta treated seed are not required to be certified applicators. Avicta technology is protected by U.S. Patent No. 6,875,727. Avicta Complete Corn 250 with Vibrance is an on-seed application of Avicta Complete Corn 250 and Vibrance fungicide.

Some seed treatment offers are separately registered products applied to the seed as a combined slurry. **Always read individual product labels and treater instructions before combining and applying component products.** Orondis Gold may be sold as a formulated premix or as a combination of separately registered products: Orondis Gold 200 and Orondis Gold B.

Important: Always read and follow label and bag tag instructions; only those labeled as tolerant to glufosinate may be sprayed with glufosinate ammonium-based herbicides. LibertyLink®, Liberty® and the Water Droplet logo are registered trademarks of BASF. GT27® is a trademark of M.S. Technologies and BASF. HERCULEX® and the HERCULEX Shield are trademarks of Dow AgroSciences, LLC. HERCULEX Insect Protection technology by Dow AgroSciences. **Under federal and local laws, only dicamba-containing herbicides registered for use on dicamba-tolerant varieties may be applied. See product labels for details and tank mix partners.** Golden Harvest® and NK® Soybean varieties are protected under granted or pending U.S. variety patents and other intellectual property rights, regardless of the trait(s) within the seed. The Enlist E3® traits, LibertyLink®, Roundup Ready 2 Xtend®, Roundup Ready 2 Yield® and XtendFlex® traits may be protected under numerous United States patents. It is unlawful to save soybeans containing these traits for planting or transfer to others for use as a planting seed. Only dicamba formulations that employ VaporGrip® Technology are approved for use with Roundup Ready 2 Xtend® and XtendFlex® soybeans. Only 2,4-D choline formulations with Colex-D® Technology are approved for use with Enlist E3® soybeans. VaporGrip® is a trademark of, and used under license from, Monsanto Technology LLC. Roundup Ready 2 Yield®, Roundup Ready 2 Xtend®, XtendFlex® and YieldGard VT Pro® are registered trademarks used under license from the Bayer Group. ENLIST E3® soybean technology is jointly developed with Dow AgroSciences LLC and MS Technologies LLC. The ENLIST trait and ENLIST Weed Control System are technologies owned and developed by Dow AgroSciences LLC. ENLIST® and ENLIST E3® are trademarks of Dow AgroSciences LLC. The trademarks or service marks displayed or otherwise used herein are the property of a Syngenta Group Company. All other trademarks are the property of their respective owners. More information about Agrisure Duracade® is available at <http://www.biotradestatus.com/>.



