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WHATEVER IT TAKES, 365 DAYS A YEAR



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

Count on us to be relentless about adding value at every stage of your crop's development, from planting to monitoring performance to evaluating results and planning for the following year.



PRIORITIZING FARMER NEEDS IN EVERYTHING WE DO.

GENETICS, AGRONOMY AND SERVICE THAT NEVER QUITS.

Golden Harvest is dedicated to developing quality products that meet specific farmer needs. Your Seed Advisor will recommend products that combine locally developed genetics with the traits you need, placed to deliver in your real field conditions. All backed by a year-round service experience that yields results.

syngenta.



UNIQUE GENETICS

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



AGRONOMIC EXPERTISE

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



TIRELESS SERVICE

Count on your Golden Harvest[®] Seed Advisor for insights and local expertise that will help you make the right decisions for your crop throughout the current season and help plan for the next. Because it's not just service; it's a commitment to truly understanding you and your fields.

LOCALLY PROVEN CORN WITH INDUSTRY-LEADING GENETICS

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

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

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

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

PROTECT YOUR CORN'S Genetic Yield Potential.

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

AgrisureDuracade®

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

Agrisure Viptera

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

Agrisure Artesian

- Maximizes yield when it rains and increases yield when it doesn't
- Offers multiple genes for season-long drought protection
- Optimizes plant health through elite genetics that allow plants to manage gaps in rainfall season-long and yield exceptionally well in good conditions
- Delivers nearly 12% higher yields compared to other hybrids in severe and extreme drought²



3

CORN CHARACTERISTICS

PRODUCT				TRAIT OFFERS			
		low Ground a with E-Z Refuge	Above Ground Insect Protection with E-Z Refuge	Above/Below Ground Insect Protection	Above Ground Insect Protection	No Insect Protection	No Insect Protection
Harvest ieries	🔺 Agrisure	材 Agrisure	Agrisure 3120	Agrisure 3000GT	🔺 Agrisure	Agrisure GT	
Golden Harvest Hybrid Series	Duracade	3122	Agrisure Viptera	Agrisure Viptera	Viptera	Agrisure GT/LL	Conventional
G99E68 NEW	5122 NEW						
G00H12	5122					GT/LL NEW	
G02K39	5122		3120				
G02W74				3000GT			Conv.
G03R40	5222						
G04G36 NEW				3111A <i>NEW</i>			
G05K08	5122A						
G06Q68	5222		3220				
G07F23				3111		GT	Conv.
G08D29	5122A		3120A				
G08M20	5122		3120				
G09A86			3330	3000GT		GT/LL	
G09Y24	5222A		3220A				
G10D21 NEW			3330 NEW				
G10L16	5222A		3330A, 3220A NEW				ConvA NEW
G11A33			3220				
G11F16				3111A			
G11V76 <i>NEW</i>	5122 NEW		3120 NEW				
G12S75 NEW	5122 NEW						
G12U17	5122		3120				
G13H15	5122		3120				
G13M88					3110		
G13T41	5122		3120				
G13Z50	5222		3220				
G14N11	5222						
G14R38		3122	3120			GT	Conv.
G15J91 NEW			3220 NEW				
G15L32	5222 NEW		3330	3000GT			

Flex hybrids adjust to growing conditions by changing ear length or kernel depth. Determinate/Fixed hybrids are less able to adjust ear size. Plant Population is considered more important for a determinate-ear hybrid than for a flex-ear hybrid.

Ratings are based on interpretation of data gathered by Syngenta and/or observations across areas of adaptation and may change as additional data is gathered.

Seed products with the LibertyLink[®] (LL) trait are resistant to the herbicide glufosinate ammonium, an alternative to glyphosate in corn, and combine high-yielding genetics with the powerful, non-selective, postemergent weed control of Liberty[®] herbicide for optimum yield and excellent weed control. LibertyLink[®], Liberty[®] and the Water Droplet logo are registered trademarks of BASF Corporation.





"TO ME, WHAT MAKES GOLDEN HARVEST TRULY UNIQUE IS THAT WE HAVE A CUSTOMER CENTRIC AND LOCAL BRAND WITH A DEEP AND RICH HISTORY THAT HAS A PREMIER R&D ORGANIZATION BEHIND IT AND IS STRATEGICALLY POSITIONED FOR ROBUST GROWTH OPPORTUNITIES NOW AND INTO THE FUTURE."

Steve Wilkens

Golden Harvest East Agronomy Manager

	ATURI ORMA				С			NOM		s				СН		PLAN CTEI		ICS						SEAS ERAI	SE NCE				PRODUCT
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	Southern Corn Leaf Blight	Eyespot	Anthracnose Stalk Rot	Tarspot	Fusarium Crown Rot	Common Rust	Golden Harvest Hybrid Series
99	1300	2445	3	2	2	3	3	4	2	3	3	-	3	3	М	S-U	SF	М	R	2	2	5	-	3	3	4	4	-	G99E68 NEW
100	1315	2420	3	3	2	3	2	2	4	3	3	-	5	5	М	S-U	SD	М	R	3	5	5	-	3	-	2	4	-	G00H12
102	1305	2475	3	3	2	2	2	2	1	3	5	-	5	5	М	U	F	М	R	3	4	3	-	3	-	4	2	-	G02K39
102	1300	2445	3	4	2	2	2	4	3	4	4	6	5	6	М	S-U	SF	S	R	3	2	6	-	4	4	4	3	-	G02W74
103	1335	2445	2	3	2	2	3	2	3	4	2	-	4	4	М	U	SD	М	R	4	5	3	5	3	-	3	2	-	G03R40
104	1320	2550	4	2	2	3	1	3	5	3	4	-	5	6	М	S-U	SF	L	R	3	3	3	3	4	5	4	5	-	G04G36 NEW
105	1310	2555	3	4	4	3	1	3	6	3	4	-	5	6	Ρ	U	SD	М	R	4	3	4	4	3	4	5	5	-	G05K08
106	1355	2560	3	3	3	3	2	3	4	3	5	-	4	5	М	U	SF	М	R	5	2	4	3	5	-	4	4	-	G06Q68
107	1375	2570	3	3	3	2	2	3	4	3	4	-	5	5	М	S-U	SF	М	Pi	3	2	4	5	3	-	3	3	5	G07F23
108	1405	2560	2	3	3	3	1	2	5	4	4	-	4	5	М	S-U	SF	М	Pi	4	2	3	6	4	-	4	4	4	G08D29
108	1365	2575	3	3	3	3	3	5	5	4	3	-	5	5	М	S-U	SF	L	R	3	3	4	4	4	-	6	5	7	G08M20
109	1385	2580	3	2	3	2	3	5	4	4	4	-	3	4	М	S-U	SD	М	Pi	2	5	4	4	5	-	4	4	5	G09A86
109	1420	2570	3	3	4	4	1	3	5	4	4	-	5	3	М	S-U	SF	М	R	5	2	4	4	3	-	4	5	-	G09Y24
110	1410	2570	3	2	3	3	3	5	3	4	4	-	3	2	М	S-U	SD	S	Pi	2	2	3	-	-	2	3	4	3	G10D21 NEW
110	1395	2620	2	3	4	4	1	4	5	2	4	-	5	6	М	S-U	SF	М	R	4	6	3	4	3	-	-	4	7	G10L16
111	1435	2600	4	4	2	2	2	3	2	3	3	-	5	4	М	Ρ	SF	М	R	3	3	5	4	2	-	4	4	3	G11A33
111	1430	2590	4	4	2	2	1	4	2	3	5	-	5	5	М	Р	SF	М	R	4	3	5	4	2	-	5	3	4	G11F16
111	1430	2600	3	3	3	4	2	3	4	3	2	-	4	6	F	U	SF	L	Pi	4	3	6	6	-	3	3	3	7	G11V76 NEW
112	1430	2630	4	3	3	2	3	5	2	4	4	-	2	4	М	U	SF	М	R	3	3	3	6	-	3	2	3	7	G12S75 NEW
112	1425	2620	3	3	4	2	4	2	2	2	4	-	3	3	М	S-U	SF	М	R	4	3	5	5	-	-	-	2	-	G12U17
113	1420	2640	3	4	3	2	2	3	3	3	4	-	3	3	М	U	SD	М	R	3	4	3	5	-	-	-	2	-	G13H15
113	1430	2680	3	3	2	3	4	3	3	2	4	-	5	4	М	S-U	SD	М	R	3	3	3	3	5	-	-	3	4	G13M88
113	1435	2605	4	3	2	2	2	2	2	3	3	-	4	5	М	S-U	SF	L	R	4	2	5	4	2	-	-	4	2	G13T41
113	1435	2650	2	2	2	4	3	3	3	2	4	-	4	4	М	S-U	SD	М	R	4	3	3	4	4	-	-	4	7	G13Z50
114	1425	2660	2	2	2	4	3	2	3	3	5	-	3	2	М	U	SF	М	Pi	5	5	5	4	3	-	-	4	7	G14N11
114	1435	2630	3	3	2	3	3	3	4	3	3	-	3	2	М	U	SD	М	R	5	4	4	4	3	4	-	3	3	G14R38
115	1455	2665	4	5	2	4	3	4	4	4	3	-	3	5	М	U	SF	L	W	4	2	5	3	-	2	2	4	7	G15J91 NEW
115	1455	2645	2	3	3	4	4	3	2	4	2	-	4	5	М	S-U	SF	L	R	3	4	4	3	3	-	-	4	7	G15L32

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 $\begin{array}{l} \textbf{Cob Color} \\ \textbf{R} = \textbf{Red} \\ \textbf{Pi} = \textbf{Pink} \\ \textbf{W} = \textbf{White} \end{array}$

water-optim

Disease Tolerance 1 = High 9 = Low

- = Not available

Drought Agrisure Artesian water-optimized hybrid.

9-68

NEW // RM: 99

TOP-END YIELD POTENTIAL WITH OUTSTANDING ROOTS AND STALKS

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

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

G99E68-5122 E-Z Refuge Brand NEW

G00H12

GREAT YIELD STABILITY ACROSS ENVIRONMENTS

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

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

RM: 100

RM: 102

G00H12-5122 E-Z Refuge Brand GOOH12-GT/LL Brand NEW E100H1-5122 E-Z Refuge Brand

02K39

YIELD STABILITY AND PLANT HEALTH FOR CONSISTENT PERFORMANCE

Rati

Eme

Roo

Stal

Stav

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

ing	9	7	5	3	1
ergence	••	•••			
t Strength	• •	••	•	•	
lk Strength	••	••	•	••	• •
ygreen	••	••	•		
down	••	••	•		
ught					

RM: 102

RM: 103

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

G02W74

TOP-END PERFORMANCE IN ALL YIELD ENVIRONMENTS

- Excellent root and stalk strength
- Very good staygreen and late-season intactness
- Early flowering and black layer for good northern adaptation

Rating	9	7	5	3	best 1
Emergence	•				
Root Strength	•	••	••		• •
Stalk Strength	•	•••	••		• •
Staygreen	•		••		
Drydown	•	••	••		
Drought					

G02W74-3000GT Brand G02W74 Brand (Conv.)

)3R40

YIELD LEADER WITH BROAD ADAPTATION AND YIELD STABILITY

- Broadly adapted across soil types and management levels
- Excellent stalks and roots for late season standability
- Strong emergence for early planting confidence

3 Q 7 5 Emergence Root Strength Stalk Strength Stavoreen Drydown Drought

G03R40-5222 E-Z Refuge Brand

GO4G36 Artesian

NEW // RM: 104

YIELD STABILITY SUPPORTED BY OUTSTANDING ROOTS AND SOLID **STALKS**

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

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

G04G36-3111A Brand NEW

RM: 106

G05K08 Artesian

RM: 105

MEDIUM PLANT HEIGHT WITH EXCITING YIELD POTENTIAL

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

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

G05K08-5122A E-Z Refuge Brand

G06068

STRONG PERFORMANCE IN HIGH-YIELD ENVIRONMENTS

Ratin

Emer

Root

Dryd

Drou

- Medium plant height with good stalks and roots
- Performs well under a wide range of Stalk populations Stay
- Adapted to most soil types

ıg	9	7	5	3	BEST 1
rgence	••	•	•••	•	
Strength	• •	•	•••	•	
Strength	• •	•	•••	•	
green	••	•			
own	••	•	•••	•	
ght	• •	•	•••	•	• •

G06Q68-5222 E-Z Refuge Brand G06Q68-3220 E-Z Refuge Brand E106Q6-5122 E-Z Refuge Brand

RM: 107

BROADLY ADAPTED HYBRID WITH CONSISTENT PERFORMANCE ACROSS YIELD ENVIRONMENTS

						DEOI	
 Moderate plant stature with very 	Rating Emergence	9	7	5	3	1	
good root strength	Root Strength	•					
Excellent stalk strength for	Stalk Strength	•					
late-season standability	Staygreen	•			0.0		
 Consistent ear with very good grain 	Drydown	•					
quality	Drought	•	•	•••	•••	0	

G07F23-3111 Brand G07F23-GT Brand G07F23 Brand (Conv.)

08D29 Artesian

RM: 108

EXCELLENT STALKS AND ROOTS FOR SEASON-LONG STANDABILITY

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

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

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

08M20

EXCITING COMBINATION OF HIGH YIELDS AND SOLID AGRONOMICS

Ratin

Emer

Root

Stalk

Stayg

Drydo

Droug

- Solid late-season stalks
- Great test weight and grain quality
- Adapted to most soil types

g	9	7	5	3	BEST 1
gence	•••	•••	•••		
Strength	••	••	••	•	
Strength	••	••	••	•	
green	••	••	• •		
own	••	••	••		
ght		••	••	•	

RM: 108

G08M20-5122 E-Z Refuge Brand G08M20-3120 E-Z Refuge Brand E108M2-5122 E-Z Refuge Brand

9A86

TOP-END YIELD WITH SOUND AGRONOMICS

- Excellent stalks and strong roots for season-long standability
- Outstanding choice for variable soils provides consistent performance
- Strong protection against Gray Leaf Spot to minimize risk



RM: 109

G09A86-3330 E-Z Refuge Brand G09A86-3000GT Brand G09A86-GT/LL Brand

Artesian

EXCITING GENETICS WITH AGRISURE ARTESIAN TECHNOLOGY

Ra

Er

Ro

St

St

- Maximizes yield when it rains; increases yield when it doesn't
- Population flexibility across all environments
- Dr Top-end yield potential with stability Dr when conditions are tough

ating mergence	9	7	5	3	BEST 1
oot Strength	•				
talk Strength	•				
taygreen	•				
rydown	•				
rought ason-long Protection	•				••

RM: 109

G09Y24-5222A E-Z Refuge Brand G09Y24-3220A E-Z Refuge Brand E109Y2-5122A E-Z Refuge Brand

(i

NEW // RM: 110

TOP-END YIELDS WITH OUTSTANDING ROOTS AND STALKS FOR SEASON-LONG STANDABILITY

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

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

G10D21-3330 E-Z Refuge Brand NEW

G10L16 Artesian

INDUSTRY-LEADING YIELD PERFORMANCE ACROSS ALL ACRES

Rating

Emerae

Root St

Staygro

Drydov

Drough Season-In

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

	9	7	5	3	best 1	
ence	•					
trength	•					
trength	• •	••				
een	•					
vn	• •				0	
ıt						

RM: 110

G10L16-5222A E-Z Refuge Brand G10L16-3330A E-Z Refuge Brand G10L16-3220A E-Z Refuge Brand NEW G10L16-A Brand (Conv.) NEW

G11A33

MODERATE PLANT HEIGHT WITH CONSISTENT YIELDS

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



RM: 111

G11A33-3220 E-Z Refuge Brand E111A3-5122 E-Z Refuge Brand

G11V76

NEW // RM: 111

VERSATILITY ACROSS SOIL TYPES COMBINED WITH STRONG DROUGHT TOLERANCE

Ratino

Emerger

Root Stre

Drought

- Moderate plant type with strong roots aids standability
- Fast drydown and good grain quality Stalk Str
- Dependable emergence in stressful Stavoree Drvdown environments

	9	7	5	3	BEST 1
ice	••	••	••	•	
ength	••	••	••	•	
rength	••	••	••		
en	••	••	••		
ı	••	••	••	•	

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

G12S75

NEW // RM: 112

OUTSTANDING ROOTS AND STALKS FOR SEASON-LONG STANDABILITY

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

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

G12S75-5122 E-Z Refuge Brand NEW

RM: 113

RM: 114

G12U17

RM: 112

EXCELLENT STALKS FOR SEASON-LONG STANDABILITY

- Exceptional performance in poorly drained soils
- Outstanding late season plant health Sta and intactness Sta
- Excellent drydown for an early harvest option

Rating	9	7	5	3	1
Emergence	•	•••	•••		
Root Strength	•				
Stalk Strength	•				•
Staygreen	•				0
Drydown	•		••	••	0
Drought	•				

G12U17-5122 E-Z Refuge Brand G12U17-3120 E-Z Refuge Brand

G13T41

EXCELS IN HIGH-YIELD, HIGHLY PRODUCTIVE ENVIRONMENTS

Rati

Fme

Root

Stall

Stay

- Superior root and stalk strength provides late-season intactness
- Versatile hybrid that performs well across all soil types
- Best performance in low to moderate Dryd Drou pH soils

ng	9	7	5	3	BEST 1
rgence	••	•••	•		
Strength	••	••	•	•	
k Strength	••	••	•	•	
green	••	••	•	•	
lown	••	••	•	•	
ight	••	••	•	•	

G13T41-5122 E-Z Refuge Brand G13T41-3120 E-Z Refuge Brand

G13Z50

EXCELLENT EMERGENCE AND SOLID EARLY VIGOR

Good disease tolerance	Hating
	Emergence
Excellent drydown	Root Streng

- Performs well und

populations

er a wide range of	Stalk Strength	•
	Staygreen	•
	Drvdown	

Rating

Drought

.... Root Strenath

RM: 113

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

G14N11

EXCELLENT TOP-END YIELD POTENTIAL WITH BROAD ADAPTABILITY

- Very strong emergence and vigor allow for an early plant option
- Outstanding root strength for season-long standability
- Moderate plant stature for residue management

Rating	9	7	5	3	BEST
Emergence	•	•••			
Root Strength	•				
Stalk Strength	•	••	••	0.0	
Staygreen	•				
Drydown	•				
Drought	•	••	••		

G14N11-5222 E-Z Refuge Brand

G14R38

RM: 114

OUTSTANDING YIELD PERFORMANCE WITH AN EXCELLENT AGRONOMIC PACKAGE

Rating

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

7 5 3 Q Emergence Root Strength Stalk Strength Stavoreen Drydown

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

G15J91

NEW // RM: 115

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

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

Rating	9	7	5	3	best 1
Emergence	••	•			
Root Strength	•	•		•	
Stalk Strength	•	•	•		
Staygreen	••	•	••		
Drydown	•	•			
Drought	•	•		•	

G15J91-3220 E-Z Refuge Brand NEW

CORN AGRONOMIC MANAGEMENT

PRODUC	т			AGI	RONON	ЛІС МА	NAGEN	IENT A	ND PLA			ITS			E	END-USE TRAITS		
	Ē	Seeding Rate % Adjustment Adaptation to Soil Types/ Yield Environments																
Golden Harvest Hybrid Series	Relative Maturity (RM)	-20%	-10%	%0	+10%	+20%	Root Strength	Stalk Strength	Corn-on-Corn	Drought Prone	High pH	Highly Productive	Variable	Poorly Drained	Starch	Protein	Oil	Feed to Gain
G99E68 NEW	99	G	G	В	G	G	2	3	G	G	G	В	G	В	-	В	В	F
G00H12	100	G	G	В	В	G	2	3	G	G	В	В	G	G	F	G	G	F
G02K39	102		G	В	В	G	2	2	В	В		В	В	В	F	G	G	В
G02W74	102		G	В	В	В	2	2	G	В		В	G	G	G	G		В
G03R40	103		G	В	В	G	2	2	В	G	G	В	G	В	F	G	G	F
G04G36 NEW	104	G	G	В	G	G	2	3		В	F	G	G	G	-		F	В
G05K08	105	G	В	В	G	G	4	3	G	В	G	В	В	G	G	G	В	В
G06Q68	106	G	G	В	В	G	3	3	В	В	F	В	В	G	В	F	F	G
G07F23	107	G	G	В	G	G	3	2	G	В	Р	В	В	G	G		В	В
G08D29	108	G	G	В	G	G	3	3	В	В		В	В	G	F	G	В	G
G08M20	108	В	В	В	G	F	3	3	G	G	G	В	В	F	В	F	G	G
G09A86	109		G	В	В	В	3	2	G	G	F	В	В	В	F	G	G	В
G09Y24	109	G	В	В	G		4	4	F	В	Р	В	В	G		G	В	F
G10D21 NEW	110	G	G	В	G	G	3	3	G	F	F	G	G	G	G	G	В	G
G10L16	110	G	G	В	G	G	4	4	В	В	F	В	G	G	В	F	F	G
G11A33	111	G	G	В	G	G	2	2	В	G	Р	G	В	G	G	G	В	G
G11F16	111	G	G	В	В	G	2	2	G	В	Р	В	В	G	G	F	G	G
G11V76 <i>NEW</i>	111	G	G	В	G	G	3	4	G	G	G	G	G	G	-	В	G	G
G12S75 NEW	112	G	G	В	G	G	3	2	В	F		В	В	В	-	В	F	G
G12U17	112	G	G	В	G	G	4	2	F		G	В	G	В	В	В	F	G
G13H15	113		G	В	G		3	2	G	G		В	В	В	F	G	G	G
G13M88	113	G	G	В	G	G	2	3	G	G	G	В	G	G	F	В	В	G
G13T41	113	G	G	В	G	G	2	2	В	В	Р	В	В	В	F	G	G	G
G13Z50	113	G	G	В	В	В	2	4	G	G	G	В	В	В	G	G	F	G
G14N11	114	G	В	В	G	F	2	4	В	G	G	В	G	В	В	В	F	В
G14R38	114	G	G	В	В	В	2	3	В	G		В	В	В	G	F	G	В
G15J91 NEW	115	G	В	В	G		2	4	F	G	G	В	В	В	-	В	В	G
G15L32	115	G	G	В	G	G	3	4	G	G	В	В	G	G	В	F	F	G

Rating Scale

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

Score Interpretation B = Best

G = Good F = Fair water-o

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.

P = Poor - = Not available

Corn Population Response Factors

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

YIELD ENVIRONMENT (BU/A)	HIGHEST YIELDING SEEDING RATE (SEEDS/A)	OPTIN	OPTIMUM SEEDING RATE (SEEDS/A) BY COMMODITY PRICE (\$/BU) (SEED COST = \$200/80K UNIT)									
		\$3.00	\$3.50	\$4.00	\$4.50	\$5.00						
280	40,200	36,600	37,100	37,500	37,700	38,000						
240	38,500	34,100	34,700	35,100	35,500	35,800						
200	36,400	31,000	31,700	32,300	32,700	33,100						
160	33,800	26,900	27,700	28,400	29,000	29,400						
120	29,700	20,900	21,900	22,700	23,400	23,900						

Influence of Yield Environment and Commodity Price on Optimum Seeding Rate

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

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

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

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

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

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

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

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

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

Dave Young

Head, Golden Harvest Marketing



SILAGE PRODUCTS Selected to perform For your herd.

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

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

12

CORN SILAGE HYBRID SELECTION

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

PRODU	ст			AGROI ARACT					EASE RANCE	AGRONOMIC RESEARCH RATINGS											
	y (RM)												(%)	()				Feed	Effec	t On*	
Golden Harvest Hybrid Series	Relative Maturity (RM)	Emergence	Root Strength	Drought	Staygreen	Plant Height	Ear Height	Gray Leaf Spot	Goss's Wilt	Yield (Ton/A)	CP (% of DM)	NDF 48 hr (%)	NDF Dig. 48 hr (%)	Starch (% of DM)	Fat (% of DM)	TDN (% of DM)	NEL (Mcal/lb)	Milk (lbs/Ton)*	Milk (Ibs/A)*	Beef (lbs/Ton)*	Beef (lbs/A)*
G00H12	100	3	2	2	4	5	5	3	5	В	В			G	В	F	F	F	G	F	G
G02K39	102	3	2	2	1	5	5	3	3	В	G	G	G	В	В	В	В	В	В	В	В
G02W74	102	3	2	2	3	5	6	3	6		G	В	В	G	G	G	G	G		G	F
G03R40	103	2	2	3	3	4	4	4	3		В	Р		Р	В	F					F
G05K08	105	3	4	1	6	5	6	4	4	G	В	В	G	В	В	G	G	G	G	G	G
G06Q68	106	3	3	2	4	4	5	5	4	F	G	G	G	В	В	G	В	G	F	G	F
G07F23	107	3	3	2	4	5	5	3	4	В	G	G	G	G	G	В	В	В	В	В	В
G08D29	108	2	3	1	5	4	5	4	3	G	G	F	G	G	В	G	G	G		G	F
G08M20	108	3	3	3	5	5	5	3	4	G	B	В	G	B	В	F	G				F
G09A86	109	3	3	3	4	3	4	2	4	В	В	G	F	В	G	G	G	G	G	G	В
G09Y24	109	3	4	1	5	5	3	5	4	G	G	G	B	G	G	B	B	B	G	B	G
G10L16	110	2	4	1	5	5	6	4	3	F	G	B	G	B	B	G	G	G		G	F
G11A33 G11F16	111 111	4	2	2	2	5	4	3	5	P	G	B	B	B	B	G	B	G		G	F
G12U17	112	4	2		2 2	5 3	5	4	5 5	F	G G	G B	G B	B B	F	F G	G G	G G	F	G G	F
G12017 G13H15	112	3	4 3	4 2	2	3	3 3	4	3	G B	F	G	F	G	F	G	G	G	G B	G	G B
G13M88	113	3	2	2	3	5	4	3	3	_		B	G	B	G	G	F	F		G	
G13//88 G13Z50	113	2	2	4	3	э 4	4	4	3			G	G	G	F	G	G	G		G	F
G13230	113	2	2	3	3	4	2	5	5	B		B	G	B	G	G	G	G	B	G	B
G14R38	114	3	2	3	4	3	2	5	4	G		B	G	B	B	B	B	B	B	B	B
G15L32	115	2	3	4	2	4	5	3	4	B	G	G	G	B	G	G	G	G	G	G	G

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

Rating Scale

Rating Scale	Ratings Key
1 = Best 9 = Worst - = Not available	B = Best
Plant Height 1 = Tall 9 = Short	F = Fair P = Poor - = Not available
Ear Height	Drought:
1 = High	Agrisure Artesian

9 = Low

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

water-optimized hybrid.

**Milk/A: Combining yield and quality into a single term, https://fyi.uwex.edu/forage/files/2016/11/Milk-2016-Combining-Yield-and-Quality-into-a-Single-Term-2.pdf

Using This Chart

Yield: Calculated on a per-acre basis and adjusted to standard moisture.

Crude Protein (CP): Indicates the percent content of feed component relative to other hybrids.

Neutral Detergent Fiber (NDF 48 hr): Measure of the indigestible and slowly digestible components of the silage.

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

Starch: Indicates the percent content of feed component.

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

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

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

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

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

CORN WITH MORE PROFIT POTENTIAL INCREASE YOUR PROSPECTIVE ROLON GRAIN

INCREASE YOUR PROSPECTIVE ROI ON GRAIN PRODUCED FOR LIVESTOCK, SILAGE OR ETHANOL.

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



ADDED VALUE IN DAIRY AND BEEF

- Enogen Feed corn hybrids in dairy operations can increase feed efficiency by an average of 5%. Results released by researchers at a leading university confirmed a 4% increase in ECM feed efficiency (6% uncorrected)¹ – with no negative effect on milk quality parameters or rumen fermentation.
- Enogen Feed corn hybrids improve starch utilization, resulting in more available energy for your herd.
- Enogen Feed corn hybrids may be harvested as silage, grain or high-moisture corn, allowing for greater flexibility and ease of use with minimized management needs, as compared to alternative silage-specific hybrids for beef or dairy operations.
- Farm-proven yields, equal to or better than non-Enogen
 Feed hybrids²

ADDED VALUE IN ETHANOL PRODUCTION

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

¹University of Nebraska-Lincoln Research Study, 2014 ²Syngenta production data 2012-2017

ENOGEN

ENOGEN HYBRID CHARACTERISTICS

PRODUCT	TRAIT OFFERS*		MATURIT FORMAT		AGRONOMIC CHARACTERIST						PLANT CS CHARACTERISTICS					DISEASE TOLERANCE												
Enogen Hybrid Series	Above/Below Ground Insect Protection E-Z Refuge	Relative Maturity (RM)	GDUs to Silk	GDUs to Black Layer	Emergence	Seedling Vigor	Root Strength	Stalk Strength	Drought	Green Snap	Staygreen	Drydown	Test Weight	Plant Height	Ear Height	Root Type	Leaf Type	Ear Flex	Husk Cover	Cob Color	Gray Leaf Spot	Northern Corn Leaf Blight	Goss's Wilt	Southern Corn Leaf Blight	Eyespot	Tarspot	Fusarium Crown Rot	Common Rust
E106Q6	5122	106	1355	2560	3	3	3	3	2	3	4	3	5	4	5	М	U	SF	М	R	5	2	4	3	5	4	4	-
E108M2	5122	108	1365	2575	3	3	3	3	3	5	5	4	3	5	5	М	S-U	SF	L	R	3	3	4	4	4	6	5	7
E109Y2	5122A	109	1420	2570	3	3	4	4	1	3	5	4	4	5	3	М	S-U	SF	М	R	5	2	4	4	3	4	5	-
E111A3	5122	111	1435	2600	4	4	2	2	2	3	2	3	3	5	4	М	Р	SF	М	R	3	3	5	4	2	4	4	3
E113Z5	5122	113	1435	2650	2	2	2	4	3	3	3	2	4	4	4	М	S-U	SD	М	R	4	3	3	4	4	-	4	7
Rating Scale 1 = Best 9 = Worst - = Not available Test Weight 1 = High 9 = Low	1 = ⁻ 9 = \$	Short Height High	t	P = M : F = U = S-U	ot Ty = Per = Mc = Fibi af Ty = Upi J = S = Per	netra odifie rous r pe right Sem	ed t i-Up		t		F = SF SD D = Hus S = M =	Flex Flex = Se Det Sk C Sho Lon	emi- emi- erm ort diur	Dete inate r	ərmiı	nate	R Pi W Di 1 = 9 =	= Higl = Low	d k nite e Tole n		e		Ag		re Ai	rtesia		vbrid.

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.

		HERBICIDE	TOLERANCE
	EVT TYPE	GLYPHOSATE	GLUFOSINATE
Enoron Hubrido with Agricuro Durocodo® 5122 troit stock	EZT1	x	x
Enogen Hybrids with Agrisure Duracade® 5122 trait stack	EZT0	x	
	EVT5.1	x	x
Enogen Hybrids with Agrisure® 3000GT trait stack or	EVT3	x	
Agrisure Artesian [®] 3011A trait stack	EVTL	x	х
	No EVT	x	х

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

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





EXPERIENCE THE ENOGEN EFFECT

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



ENOGEN

E106Q6

STRONG PERFORMANCE IN HIGH-YIELD ENVIRONMENTS

 Medium plant height with good 	
stalks and roots	

- Performs well under a wide range of populations
- Adapted to most soil types

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

RM: 106

RM: 109

.....

RM: 113

E106Q6-5122 E-Z Refuge Brand

E108M2

EXCITING COMBINATION OF HIGH YIELDS AND SOLID AGRONOMICS

- Solid late-season stalks
- Great test weight and grain quality

- Adapted to most soil types

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

RM: 108

RM: 111

E108M2-5122 E-Z Refuge Brand

E109Y2 Artesian

EXCITING GENETICS WITH AGRISURE ARTESIAN TECHNOLOGY

Rating

Emergence

Root Strenath

Stalk Strength

Staygreen

Drydown

Drought Sasson-long Prof

- Maximizes yield when it rains; increases yield when it doesn't
- Population flexibility across all environments
- Top-end yield potential with stability when conditions are tough

E109Y2-5122A	E-Z	Refuge	Brand

E111A3

MODERATE PLANT HEIGHT WITH CONSISTENT YIELDS

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

Rating	9	7	5	3	best 1
Emergence	•				
Root Strength	•				• •
Stalk Strength	•			••	• •
Staygreen	•				• •
Drydown	•				
Drought					

E111A3-5122 E-Z Refuge Brand

E113Z5

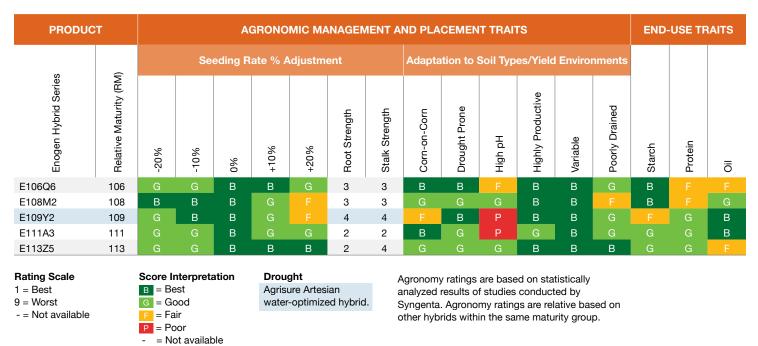
EXCELLENT EMERGENCE AND SOLID EARLY VIGOR

- Excellent drydown
- S - Performs well under a wide range of populations

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

E113Z5-5122 E-Z Refuge Brand

ENOGEN HYBRID AGRONOMIC MANAGEMENT



Corn Population Response Factors

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

Influence of Yield Environment and Commodity Price on Optimum Seeding Rate

YIELD ENVIRONMENT (BU/A)	HIGHEST YIELDING SEEDING RATE (SEEDS/A)	OPTIMUM SEEDING RATE (SEEDS/A) BY COMMODITY PRICE (\$/BU) (SEED COST = \$200/80K UNIT)								
		\$3.00	\$3.50	\$4.00	\$4.50	\$5.00				
280	40,200	36,600	37,100	37,500	37,700	38,000				
240	38,500	34,100	34,700	35,100	35,500	35,800				
200	36,400	31,000	31,700	32,300	32,700	33,100				
160	33,800	26,900	27,700	28,400	29,000	29,400				
120	29,700	20,900	21,900	22,700	23,400	23,900				

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

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

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

Continuous Corn Agronomic Characteristics: Favorable ratings in this column indicate hybrids containing multiple agronomic phenotypic traits deemed important

for fields where corn is being cultivated for consecutive years. Ratings are weighted based on the following individual hybrid characteristics: yield, emergence strength, early vigor, root and stalk strength, staygreen and foliar disease tolerance.

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

End-Use Traits: Ratings indicate end-use suitability based on the level of each grain quality characteristic.



SOYBEANS WITH PROVEN YIELD Potential and industry-leading Choice weed control options.

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

PROVEN PERFORMANCE

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

STRONG DEFENSIVE AGRONOMICS

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

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

BROADEST CHOICE OF HERBICIDE TOLERANCE TRAITS FOR SUPERIOR WEED CONTROL.



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



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



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

SOYBEAN CHARACTERISTICS

PROD	ист	AGRONOMIC/PLANT CHARACTERISTICS*																		
Ø		y (RM)		ype						Color			Rating	Adaptation to Soil Types/ Yield Environments					Herb Resp	
Golen Harvest Soybean Brands	Herbicide Tolerant Trait	Relative Maturity (RM)	Emergence	Canopy/Plant Type	Plant Height	Standability	Narrow Row	Wide Row	Flower Color	Pubescence Cc	Pod Color	Hilum Color	Green Stem Ra	Drought Prone	High pH	Highly Productive	Variable	Poorly Drained	Sulfentrazone	Metribuzin
GH1763E3	E3	1.7	3	М	М	2	2	1	WH	LTW	ΤN	BL	-	G	F	G	G	G	В	В
GH1915X	RR2X	1.9	3	Μ	MS	2	1	2	WH	LTW	BR	BL	4	F	F	В	G	G	В	G
GH1955E3 NEW	E3	1.9	2	Μ	М	4	2	2	PUR	GR	BR	IMB	-	-	-	-	-	-	-	F
GH2011E3	E3	2.0	3	Μ	М	2	1	1	PUR	GR	BR	BF	2	G	F	G	В	G	G	В
GH2041X	RR2X	2.0	3	Μ	М	2	1	2	WH	LTW	BR	BL	3	G	G	В	В	F	В	В
GH2230X	RR2X	2.2	3	Μ	М	3	1	2	WH	LTW	BR	BL	3			G		В	В	В
GH2279E3	E3	2.2	3	Т	М	2	1	3	PUR	GR	ΤN	BF	3	G		G	G	G	В	G
GH2329X NEW	RR2X	2.3	2	MB	М	4	3	1	WH	LTW	BR	BL	3	G		G	G	В	В	В
GH2420E3	E3	2.4	3	М	MS	2	1	2	WH	LTW	ΤN	BL	2			G	F	F	В	В
GH2552X	RR2X	2.5	3	MB	MT	3	2	1	WH	LTW	BR	BL	2	G	G	G	В	В	В	В
GH2610E3	E3	2.6	2	Μ	М	2	1	2	PUR	GR	ΤN	BF	2		G	В	G	G	G	В
GH2788X	RR2X	2.7	3	Μ	MS	2	1	1	PUR	GR	BR	IMB	3	G	Р	В	G	В	F	G
GH2818E3	E3	2.8	2	Μ	М	3	1	1	WH	GR	ΤN	BF	2	В	F	В	В	G	G	В
GH2981X	RR2X	2.9	2	MB	М	3	1	1	PUR	LTW	BR	BL	2	G	G	В	В	G	G	В
GH3042E3	E3	3.0	3	MB	М	3	2	1	PUR	GR	ΤN	IMB	3	G	F	G	G	G	В	В
GH3088X	RR2X	3.0	2	MB	М	3	1	1	PUR	LTW	BR	BL	3	G	G	В	G	В	В	В
GH3152E3S	E3/STS	3.1	2	MB	MT	3	1	1	PUR	GR	BR	BF	4	В	Р	В	В	G	В	-
GH3347X NEW	RR2X	3.3	2	MT	Т	3	1	1	PUR	LTW	ΤN	BL	2	В	G	В	В	G	В	В
GH3380E3 NEW	E3	3.3	3	MB	MT	3	2	1	PUR	LTW	BR	BR	-	-	-	-	-	-	-	G
GH3546X	RR2X	3.5	2	Μ	MT	3	1	1	PUR	LTW	BR	BL	2	G	G	В	В	В	В	В
GH3582E3	E3	3.5	2	Μ	М	2	1	1	PUR	GR	ΤN	IMB	2	В	Р	В	G	G	В	В
GH3624E3	E3	3.6	2	Μ	М	2	3	2	WH	GR	BR	BF	2	F	F	В	G			В
GH3922E3	E3	3.9	2	MB	М	2	1	1	WH	GR	BR	BF	3	В	F	G	G	G	G	G
GH4155E3	E3	4.1	2	MB	MT	2	1	1	PUR	LTW	ΤN	BR	2	G	G	G	F	G	G	G

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

Herbicide Tolerant Traits RR2X = Roundup Ready 2 Xtend® E3 = ENLIST E3® E3/STS = ENLIST E3® and STS® Plant Height S = Short MS = Medium-Short M = Medium MT = Medium-Tall T = Tall

Growth Habit IND = Indeterminate DET = Determinate Color Abbreviations BF = Buff BL = Black BR = Brown GR = Gray IMB = Imperfect Black IMY = Imperfect Pellow LTW = Light Tawny PUR = Purple TN = Tan TW = Tawny WH = White YEL = Yellow

Adaptation to Soil Types/

- Yield Environments
 B = Best
- G = Good
- F = Fair P = Poor
- = Not available



"GOLDEN HARVEST COMBINES YIELDING GENETICS, OUTSTANDING AGRONOMICS AND THE BEST TRAIT PORTFOLIO ON THE MARKET. WE ARE FOCUSED ON IMPROVING THE PRODUCTIVITY OF EVERY ACRE AND DELIVERING MORE TO YOUR BOTTOM LINE."

Andrew Lee

Head, Golden Harvest East Commercial Unit

SOYBEANS

	AIN LITY*		DISEASE/PEST*								
% mst.	st.	Phytophthora	Root Rot		an Cyst atode		t	e	()	pot	<i>ω</i>
% Protein @13% mst.	% Oil @13% mst.	Gene Resistance	Field Tolerance	Gene Source	Race Resistances	Iron Deficiency Chlorosis (IDC)	Brown Stem Rot (BSR)	Sclerotinia White Mold (SWM)	Sudden Death Syndrome (SDS)	Frogeye Leaf Spot (FELS)	Golden Harvest Soybean Brands
35.3	18.8	S	4	PI88788	MR3	4	-	3	2	5	GH1763E3
33.6	19.6	Rps1c	4	PI88788	R3, MR14	4	5	3	3	5	GH1915X
-	-	S	3	PI88788	R3, MR14	4	-	3	-	-	GH1955E3 NEW
36.0	19.0	Rps1c, Rps3a	2	PI88788	MR3	4	-	4	2	4	GH2011E3
35.0	19.2	Rps1c	4	PI88788	R3, MR14	3	5	3	2	5	GH2041X
34.1	19.5	Rps1c	4	PI88788	R3, MR14	4	5	3	3	5	GH2230X
34.4	20.9	Rps1k	4	PI88788	MR3	4	-	3	3	3	GH2279E3
34.9	19.0	Rps1c	3	PI89772	MR1, MR3	4	-	4	2	4	GH2329X NEW
34.7	19.1	S	5	PI88788	MR3	4	-	4	4	3	GH2420E3
35.0	19.5	Rps1c	3	PI88788	MR3	3	-	5	3	3	GH2552X
34.0	21.0	Rps1k	4	Peking	-	3	-	4	3	4	GH2610E3
34.3	19.3	Rps1c	4	PI88788	R3, MR14	5	3	4	2	5	GH2788X
35.1	20.4	Rps1k	4	PI88788	MR3	4	-	3	3	3	GH2818E3
34.9	19.1	S	4	PI88788	R3, MR14	3	2	5	3	5	GH2981X
36.6	19.9	Rps1k	4	PI88788	R3, MR14	4	3	5	3	4	GH3042E3
33.7	19.9	Rps1c	4	PI88788	R3, MR14	3	3	4	2	2	GH3088X
36.5	19.8	Rps1c	5	PI88788	MR3	6	3	4	4	5	GH3152E3S
33.7	19.4	S	3	PI88788	R3	3	3	5	3	2	GH3347X NEW
-	-	S	3	PI88788	-	3	-	5	4	4	GH3380E3 NEW
33.3	19.2	S	3	PI88788	R3	3	4	4	2	2	GH3546X
35.0	19.9	S	3	PI88788	R3, MR14	5	4	-	3	5	GH3582E3
37.0	18.8	S	3	PI88788	MR3	4	4	-	4	2	GH3624E3
35.1	20.2	Rps1a	4	PI88788	MR3	4	3	-	3	3	GH3922E3
36.0	19.6	Rps3a	4	PI88788	MR3	3	4	-	5	3	GH4155E3

Resistance Rating System

Indicates when a variety is resistant to a specific disease or pest. For Soybean Cyst Nematode (SCN) resistance, the nematode races the variety is resistant against are specified, when available. For Phytophthora, the gene conveying the resistance is listed.

Phytophthora Gene Resistance

The following genes confer resistance to the listed races of Phytophthora: Rps1a = Resistant to races 1, 2, 10, 11, 13-18, 24, 26, 27, 31, 32, 36, 38 Rps1c = Resistant to races 1-3, 6-11, 13, 15, 17, 21, 23, 24, 26, 28-30, 32, 34, 36, 38, 44 Rps1k = Resistant to races 1-11, 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.

Soybean Cyst Nematode (SCN)

R = Resistant

MR = Moderately Resistant

S = Susceptible

1, 3 and/or 14 = Specific race of soybean cyst nematode

Disease/Pest Ratings 1 = Best

9 = Worst - = Not available

SOYBEANS

GH1763E3 BRAND

COMBINES STRONG YIELD WITH AGRONOMICS

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

Rating	9	7	5	3	1
Emergence	••	••	••	• •	
Standability	••	••	••	••	
Phytophthora Field Tolerance	••	••	••		
Sudden Death Syndrome	••	••	••	••	
Sclerotinia White Mold	••	••	••	• •	
Brown Stem Rot		Rat	ing Not	Availa	ble



RM: 1.7

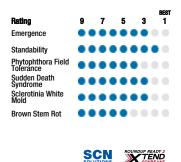
BEST

GH1915X BRAND

RM: 1.9

TOP PERFORMER WITH SEASON-LONG STANDABILITY

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

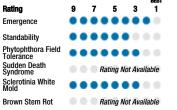


GH1955E3 BRAND

NEW // RM: 1.9

YIELD IMPROVEMENT ON THE ENLIST TRAIT PLATFORM

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





GH2011E3 BRAND

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	•				
Sclerotinia White Mold	•				
Brown Stem Rot		R	ating N	lot Avai	lable

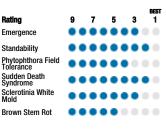


RM: 2.2

GH2041X BRAND

CAPTIVATING YIELD POTENTIAL AND STRIKING SDS TOLERANCE

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





RM: 2.0



TOP YIELD POTENTIAL ON PRODUCTIVE ACRES

- Proven Sclerotinia White Mold and solid SDS tolerance
- Provides very good harvest standability
- ScI Mo - Genetic resistance to SCN and Rps1c Bro for Phytophthora Root Rot

Rating	9	7	5	3	1
Emergence	•				
Standability	•				
Phytophthora Field Tolerance	•				
Sudden Death Syndrome	•				
Sclerotinia White Mold	•		•••		
Brown Stem Rot	•				

GH2279E3 BRAND

PRIMED TO HANDLE SCLEROTINIA WHITE MOLD

- Rating Ideal plant type for narrow rows and Emera high fertility Standa
- Focus placement on productive or highly managed acres
- Good Iron Deficiency Chlorosis tolerance

I	9	7	5	3	BEST 1
jence	•				
ability	•				
phthora Field	•				
n Death ome	•				
tinia White	•				
Stem Rot		Ra	ating N	lot Avai	ilable



RM: 2.4

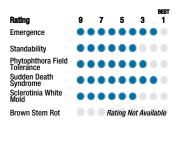
RM: 2.2

GH2329X BRAND

NEW // RM: 2.3

STRONG TOP-END YIELD KICK AND RELIABLE GENETICS

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



SCN

GH2420E3 BRAND

SUPERB STANDABILITY FOR AN EASY HARVEST

 Good choice for uniform and productive soils 	Rating Emergence Standability	9	7	5	3	1
 Compact plant that matures ahead of pace and dries quickly 	Phytophthora Field Tolerance Sudden Death Syndrome	•				
 Carries very good Frog Eye Leaf Spot tolerance 	Sclerotinia White Mold Brown Stem Rot		• • • •	ating N	ot Avail	lable

Phytop Tolera

Sudde

Sclero

Brown



RM: 2.6

GH2552X BRAND

RM: 2.5

STRONG YIELDS WITH A COMPREHENSIVE DISEASE PACKAGE

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

Rating	9	7	5	3	best 1
Emergence	• •				
Standability	• •				
Phytophthora Field Tolerance	••				
Sudden Death Syndrome	••	•			
Sclerotinia White Mold	••	•••			
Brown Stem Rot		Ra	ating N	ot Avai	lable



GH2610E3 BRAND

DEPENDABLE SDS TOLERANCE WITH PEKING SOURCE OF SCN RESISTANCE

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

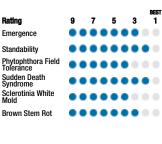
Rating Emergence	9	7	5	3	BEST 1
Standability	•				
Phytophthora Field Tolerance	• •	•			
Sudden Death Syndrome	••				
Sclerotinia White Mold	••		•••		
Brown Stem Rot		Ra	ating N	ot Avai	lable





DOMINANT PERFORMANCE ON ALMOST EVERY ACRE

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



SOYBEANS

GH2818E3 BRAND

HIGH-YIELDING, GO ALMOST ANYWHERE GENETICS

Rating

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

naung	9	'	9	3	
Emergence	• •	•••	• •	••	
Standability	••	••	••	•	
Phytophthora Field Tolerance	••	••	• •		
Sudden Death Syndrome	••	••	••	•	
Sclerotinia White Mold	••	••	••	•	
Brown Stem Rot		Ra	ting No	t Availa	able

EnlistE SCN

RM: 3.0

BES1

0

0

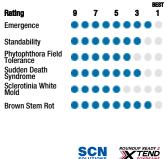
RM: 2.8

GH2981X BRAND

RM: 2.9

STABLE YIELD POTENTIAL AND SEASON-LONG STANDABILITY

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



GH3042E3 BRAND

BROADLY ADAPTED, HIGH-PERFORMING PRODUCT

Excels under higher management	Rating	9	7	5	3	
0 0	Emergence	• •				
practices	Standability	••				
Proven SDS tolerance allows for	Phytophthora Field Tolerance	••	•			
early planting	Sudden Death Syndrome	••	•			
 Dependable standability 	Sclerotinia White Mold	••	•			
	Brown Stem Rot	•				



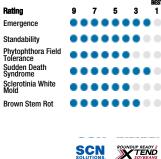
RM: 3.1

GH3088X BRAND

RM: 3.0

STRONG PERFORMER WITH EXCELLENT TOP-END YIELD POTENTIAL

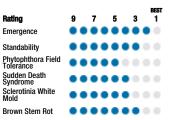
- Great defensive package anchored by outstanding SDS tolerance
- Solid standability in an attractive plant type
- Rps1c gene with above average field tolerance to Phytophthora Root Rot



GH3152E3S BRAND

DELIVERS THE BUSHELS AND HANDLES STRESS

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



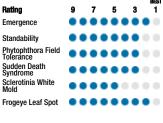




NEW // RM: 3.3

HIGH-YIELDING GENETICS WITH PROVEN SDS TOLERANCE

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



<u>SCN</u>

RM: 3.5

GH3380E3 BRAND



TOP-END YIELD POTENTIAL WITH ROBUST AGRONOMICS

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

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

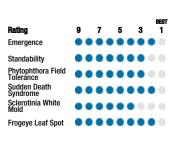


RM: 3.5

GH3546X BRAND

OFFENSIVE AND DEFENSIVE LEADER

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

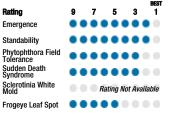


SCN

GH3582E3 BRAND

SUPERIOR PERFORMANCE ACROSS GEOGRAPHIES

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





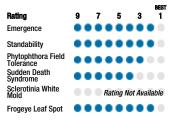
RM: 3.9

GH3624E3 BRAND

RM: 3.6

STABLE PERFORMANCE ACROSS ACRES

- Competes well in high-yielding environments
- Good choice for variable soils
- Delivers excellent Frogeye Leaf Spot protection





GH3922E3 brand

TOP YIELDS ACROSS ENVIRONMENTS

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

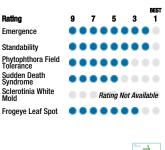
Rating Emergence	9	7	5	3	BEST
Standability	•				
Phytophthora Field Tolerance	•				
Sudden Death Syndrome	•				
Sclerotinia White Mold		R	ating N	ot Avai	lable
Frogeye Leaf Spot	•				





TOP PERFORMANCE ON THE TOUGH ACRE

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



SCN

HELPING CROPS REALIZE FULL POTENTIAL

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

GOLDEN HARVEST PREFERRED SEED TREATMENTS

Delivers customized soybean seed protection with improved disease control and handling properties:

- Contains an enhanced rate of Apron XL[®] seed treatment fungicide for superior protection of seed- and soilborne diseases such as Pythium and early season Phytophthora
- With unique polymers that bind active ingredients to the seed coat, the seed treatment decreases dust-off and improves seed flow through treating and planting equipment
- Powered by CruiserMaxx[®] Vibrance[®] with an option to add Saltro[®] fungicide seed treatment, the leading protection against Sudden Death Syndrome (SDS) and Soybean Cyst Nematode (SCN).

POWERED BY CRUISERMAXX VIBRANCE

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

¹U.S. trials with SDS pressure; 2015-2019. Trial locations: AR, IL, IA, KS, KY, MI, MN, MO, TN, WI. Trials with significantly different disease incidence/severity rating between Check and SDS treatment. CruiserMaxx Vibrance Beans is an on-seed application of CruiserMaxx Vibrance alone or with Apron XL.

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

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SEED CARE

CruiserMaxx[®]Vibrance[®]

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

Avicta[®]Complete

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

HERBICIDES

🔶 Acuron®

Acuron[®] corn herbicide helps unlock your corn's full yield potential by controlling tough weeds other products miss.



Tavium[®] Plus VaporGrip[®] Technology herbicide features two sites of action for contact and long-lasting residual control of key broadleaf and grass weeds in Roundup Ready 2 Xtend[®] Soybeans.

FUNGICIDES

×××× Miravis Neo

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

🔊 Saltro

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

INSECTICIDES

Force^{6.5G}

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



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

ron, Avicta Complete Corn 500, Besiege, Force 6.56 and Tavium Plus VaporGrip Technology are Restricted Use Pesticides



DATA INSIGHTS DRIVE INFORMED DECISION-MAKING.

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



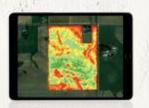
GaMePLaN

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



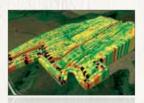
RangeFinder

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



E-Luminate Mobile

- Disease-fungicide application
- Pollination timing
- Start yield expectations
- In-field Decision Hub



Decision Hub

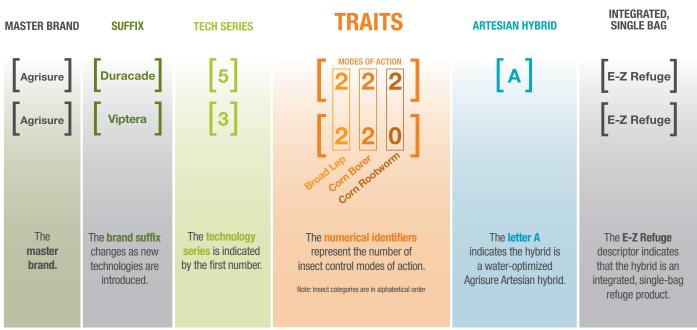
- Weather data
- Predictive analytics
- Seasonal review
- Monitor data importation-yield, as applied

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UNDERSTANDING THE AGRISURE TRAITS PORTFOLIO.

TO HELP FARMERS UNDERSTAND THE COMPETITIVE ADVANTAGE OF AGRISURE TRAITS, A STREAMLINED NAMING SYSTEM WAS DEVELOPED. THE NAMING SYSTEM CREATES CONSISTENCY FOR DELIVERY OF NEW TECHNOLOGY AND TRAIT-STACKING OPPORTUNITIES.

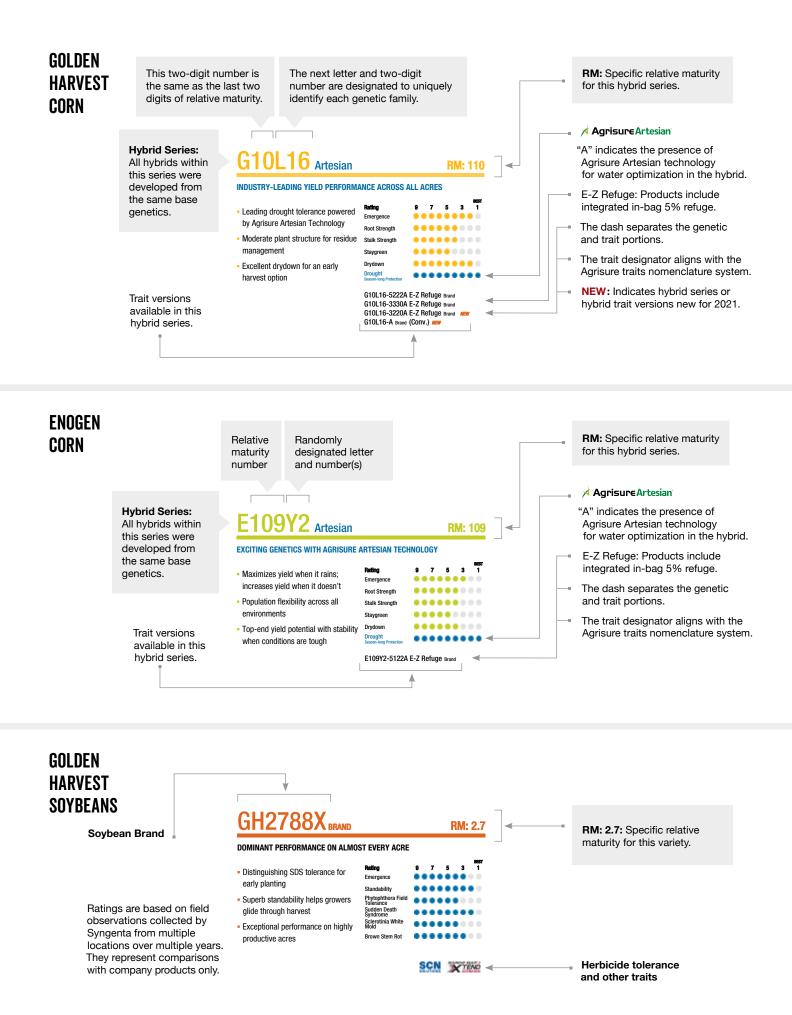




On each seed bag tag, farmers will see four numbers. How it works:

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

HYBRID & VARIETY KEYS



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

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PRÔTECT AND PRESERVE.

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

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

STEWARDSHIP REQUIREMENTS

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

BEST MANAGEMENT PRACTICES

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

CORN REFUGE REQUIREMENTS

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

TRAIT STACK*	MINIMUM REFUGE REQUIREMENT CORN-GROWING REGION	MINIMUM REFUGE REQUIREMENT COTTON-GROWING REGION		
Agrisure 3000GT	20%	50%		
AgrisureViptera AgrisureViptera am	20%			
 Agrisure Viptera JZZUEZ Refuge Agrisure Viptera JZZUEZ Refuge Agrisure 3120 CZ Refuge Agrisure 3122 CZ Refuge Agrisure 3122 CZ Refuge Agrisure Duracade SIZZ LZ Refuge Agrisure Duracade SIZZ LZ Refuge 	E-Z Refuge— no additional refuge required	20% supplemental refuge		

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

Calculator available to help farmers plan how to meet the minimum refuge requirements for each Bt corn product on their farm. Download at www.irmcalculator.com

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

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

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



GRAIN MARKETING

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

TAP INTO OUR TEAM'S Expertise.

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

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

Product performance assumes disease presence.

©2020 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 Beans 500, Avicta Complete Corn 250, Avicta Complete Corn 500, Avicta Duo Corn, Avicta Duo 250 Corn, Avicta Duo Cotton, Avicta Duo COT202, 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, 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.

SECONOMY IN ACTION

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. GT27TM is a trademark of M.S. Technologies and BASF. HERCULEX[®] and the HERCULEX Shield are trademarks of Dow AgroSciences, LLC. HERCULEX Insect Protection technology by Dow AgroSciences. **Under federal and local laws, only dicamba-containing herbicides registered for use on dicamba-tolerant varieties may be applied. See product labels for details and tank mix partners.** Golden Harvest[®] and NK[®] Soybean varieties are protected under granted or pending U.S. variety patents and other intellectual property rights, regardless of the trait(s) within the seed. The Roundup Ready 2 Yield[®] and Roundup Ready 2 Xtend[®] traits may be protected under numerous United States patents. It is unlawful to save soybeans containing these protected traits for planting or transfer to others for use as a planting seed. Only dicamba formulations that employ VaporGrip[®] Technology are approved for use with Roundup Ready 2 Xtend[®] soybeans. Only 2,4-D choline formulations with Colex-D[®] Technology are approved for use with Roundup Ready 2 Xtend[®], and VaporGrip[®] and YieldGard VT Pro[®] are trademarks of, and used under license from, Monsanto Technology LLC. ENLIST E3[®] soybean technology is jointly developed with Dow AgroScience LLC and MS Technologies LLC. The ENLIST trait and ENLIST Weed Control System are technologies owned and developed by Dow Agrosciences LLC. ENLIST [®] are trademarks of Dow AgroSciences LLC. STS[®] is a registered trademark of DuPont. The trademarks or service marks displayed or otherwise used herein are the property of a Syngenta Group Company. All other trademarks are the property of their respective owners. More information about Agrisure Duracade[®] is available at http://www.biotradestatus.com/

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