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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.





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



### **UNIQUE GENETICS**

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



### **AGRONOMIC EXPERTISE**

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



### **TIRELESS SERVICE**

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



# LOCALLY PROVEN CORN WITH INDUSTRYLEADING 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!

'Farmers' 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.

## ✓ Agrisur∈Duracade®

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

## ★ AgrisureViptera

- 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<sup>®</sup>

- Maximizes yield when it rains and increases yield when it doesn't
- Offers multiple genes for season-long drought protection
- Optimizes plant health through elite genetics that allow plants to manage gaps in rainfall season-long and yield exceptionally well in good conditions
- Delivers nearly 12% higher yields compared to other hybrids in severe and extreme drought<sup>2</sup>



<sup>\*</sup>Study results from Syngenta field trials in 33 locations

<sup>2</sup> Source info: Data is based on 7,613 Syngenta on-farm strip trials across the Corn Belt, 2010–2014.

Syngenta defines a yield environment of 50-99 bu/A assevere and fewer than 50 bu/A as extreme.

# **CORN CHARACTERISTICS**

PRODUCT				TRAIT OFFERS			
		ow Ground with <b>E-Z Refuge</b>	Above Ground Insect Protection with <b>E-Z Refuge</b>	Above/Below Ground Insect Protection	Above Ground Insect Protection	No Insect Protection	No Insect Protection
larvest eries	<b>≠</b> Agrisure	<b>∡</b> Aarisure	Agrisure 3120	Agrisure 3000GT	<b>Agrisure</b>	Agrisure GT	
Golden Harvest Hybrid Series	Duracade <sup>a</sup>	Agrisure 3122	Agrisure Viptera	Agrisure Viptera	Viptera	Agrisure GT/LL	Conventional
G84J92			3120A			GTA	ConvA
G89A09	5122		3120				
G91V51					3110A		
G90Y04	5222A		3220A			GTA/LL	
G94P48	5122A-LL						
G95D32			3220			GT/LL	
G95M41	5122						
G97N86	5222		3220				
G99E68 NEW	5122 NEW						
G00H12	5122					GT/LL NEW	
G01P52		3122A				GTA/LL	
G02K39	5122		3120				
G02W74				3000GT			Conv.
G03R40	5222						
G04G36 NEW				3111A NEW			
G04S19		3122					
G05K08	5122A						
G06Q68	5222		3220				
G08D29	5122A		3120A				
G08M20	5122		3120				
G09A86			3330	3000GT		GT/LL	
G09Y24	5222A		3220A				
G10D21 NEW			3330 NEW				
G10L16	5222A						ConvA NEW
G11A33			3220				
G11V76 NEW	5122 NEW		3120 NEW				
G12S75 NEW	5122 NEW						
G12U17	5122		3120				
G13Z50	5222		3220				

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.











	ATURI ORMA				С			NOM ERIS		s				СН		PLAN		ICS			ا	DISE	ASE	TOL	ERA	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
86	1200	2140	3	3	3	2	1	4	3	4	2	1	3	5	М	S-U	SF	М	R	-	3	4	-	3	2	-	2	-	G84J92
89	1215	2280	2	2	3	3	3	4	2	3	3	1	3	5	М	U	SF	L	R	_	4	4	-	3	3	-	3	-	G89A09
91	1240	2300	3	3	5	4	1	2	4	3	3	6	3	4	М	U	SF	М	R	-	3	4	-	3	-	-	5	-	G91V51
92	1265	2325	2	3	4	2	1	3	3	3	2	3	2	2	F	Р	SF	М	R	_	3	4	-	3	3	-	3	-	G90Y04
94	1260	2400	3	2	2	3	1	2	3	2	3	-	3	2	F	U	SF	L	R	_	3	3	-	3	3	-	3	-	G94P48
95	1280	2400	3	3	3	2	2	5	2	3	2	1	3	4	F	S-U	F	М	R	4	5	3	-	2	3	-	3	4	G95D32
95	1245	2365	3	3	2	3	3	2	3	3	3	-	3	4	М	U	SD	М	R	-	4	5	-	3	4	-	4	-	G95M41
97	1275	2400	2	2	4	2	3	3	3	3	3	5	3	2	М	U	SD	L	R	4	4	4	-	3	-	-	3	-	G97N86
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
101	1335	2460	2	2	4	2	1	3	2	4	3	1	2	3	Р	U	SF	М	Pi	4	5	3	-	3	3	3	2	-	G01P52
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
104	1385	2570	4	3	4	3	3	3	4	3	5	-	2	2	М	S-U	SF	М	Pi	4	4	3	4	2	2	4	4	-	G04S19
105	1310	2555	3	4	4	3	1	3	6	3	4	-	5	6	Р	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
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	Р	SF	М	R	3	3	5	4	2	-	4	4	3	G11A33
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	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

**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 = FlexSF = Semi-Flex

SD = Semi-Determinate D = Determinate

**Husk Cover** 

S = Short

M = Medium

L = Long

**Cob Color** 

R = RedPi = Pink

W = White

Disease Tolerance

1 = High

9 = Low

- = Not available

Drought

Agrisure Artesian water-optimized hybrid.

G91V51 Artesian

**RM: 91** 

### DOMINATING PERFORMANCE WITH AGRISURE ARTESIAN TECHNOLOGY

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



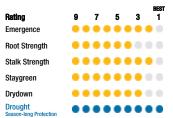
G91V51-3110A Brand

G90Y04 Artesian

RM: 92

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

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



G90Y04-5222A E-Z Refuge Brand G90Y04-3220A E-Z Refuge Brand G90Y04-GTA/LL Brand

G95D32

RM: 95

### DIVERSE GENETICS WITH EXCITING YIELD PERFORMANCE

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



G95D32-3220 E-Z Refuge Brand G95D32-GT/LL Brand E095D3-5122 E-Z Refuge Brand G95M41

RM: 95

### **EXCELLENT YIELDS IN PRODUCTIVE ENVIRONMENTS**

- Excels on well-drained soils with higher management
- Quick drydown for an early harvest
- Outstanding roots with yield stability



G95M41-5122 E-Z Refuge Brand

"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

**G97N86** 

**RM: 97** 

### EXCELLENT YIELD PERFORMANCE IN HIGH-YIELD ENVIRONMENTS

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

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

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

# G99E68

**NEW** // RM: 99

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

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

Rating	9	7	5	3	BES 1
mergence	•				
Root Strength	• •	0	•	•	•
Stalk Strength	• 0	•	•	•	
Staygreen	• 0	•	•	•	•
Orydown	• 0	•	•	•	
Trought	- 0.0				

G99E68-5122 E-Z Refuge Brand NEW

# G00H12

RM: 100

### **GREAT YIELD STABILITY ACROSS ENVIRONMENTS**

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



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

# G02K39

**RM: 102** 

### YIELD STABILITY AND PLANT HEALTH FOR CONSISTENT PERFORMANCE

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



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

# INSIGHTS FROM OUR AGRONOMISTS

Learn more about the exciting performance of G02K39.



G03R40

RM: 103

### 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



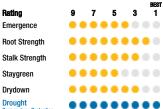
G03R40-5222 E-Z Refuge Brand

G04G36 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



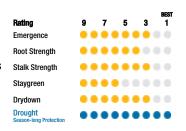
G04G36-3111A Brand MEW

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



G05K08-5122A E-Z Refuge Brand

G06Q68

RM: 106

### 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



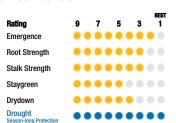
G06Q68-5222 E-Z Refuge Brand G06Q68-3220 E-Z Refuge Brand E106Q6-5122 E-Z Refuge Brand

G08D29 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



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

G10D21

**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 Root Strength package
   Stalk Strength
- Maximize yield potential and performance with higher populations



G10D21-3330 E-Z Refuge Brand NEW

G10L16 Artesian

RM: 110

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

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



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

## G11V76

**NEW // RM: 111** 

# VERSATILITY ACROSS SOIL TYPES COMBINED WITH STRONG DROUGHT TOLERANCE

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

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

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



G12S75-5122 E-Z Refuge Brand NEW

# G13Z50

RM: 113

### **EXCELLENT EMERGENCE AND SOLID EARLY VIGOR**

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



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

"OUR SEED ADVISORS AND SALES REPS WORK THROUGHOUT THE GROWING SEASON TO LEARN YOUR GROUND AND MANAGEMENT PRACTICES. WHEN IT COMES TIME TO CREATE A CROP PLAN, GOLDEN HARVEST IS IN THE UNIQUE POSITION TO BRING SYNGENTA GENETICS AND TRAITS AND POSITION THEM WITH E-LUMINATE TO HELP YOU REACH NEW LEVELS OF PRODUCTIVITY AND PROFITABILITY."

### **Andrew Lee**

Head, Golden Harvest East Commercial Unit

# **CORN AGRONOMIC MANAGEMENT**

PRODUC	т			AG	RONON	ИС МА	NAGEN	MENT A	ND PLA	ACEME	NT TRA	ITS			E	ND-US	E TRAIT	rs
			See	eding R	ate % /	Adjustn	nent				tation t							
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	ĪŌ	Feed to Gain
G84J92	86	G	G	В	В	G	3	2	G	В	F	В	В	В	В	F	F	G
G89A09	89	G	G	В	G	G	3	3	В	F	F	В	G	G	В	G		В
G91V51	91	G	G	В	G	G	5	4		В	Р	В	В	G	G	F	G	В
G90Y04	92	G	В	В	В	G	4	2	В	В	G	В	В	G	В	G		G
G94P48	94	G	G	В	G	G	2	3	G	В	G	G	В	В	G	G	G	G
G95D32	95	G	В	В	G	G	3	2	G	В	G	В	В	В	В	F		G
G95M41	95	G	G	В	G	G	2	3		F	G	В	G	G	В	F		G
G97N86	97	G	G	В	В	G	4	2	G	Р	G	В		G	G	В	F	G
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
G01P52	101		G	В	В	В	4	2	G	В	G	В	В	G	G	В	F	В
G02K39	102		G	В	В	G	2	2	В	В	F	В	В	В	F	G	G	В
G02W74	102		G	В	В	В	2	2	G	В	F	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	F	В	F	G	G	G	-			В
G04S19	104	В	В	В	G		4	3	G	G	Р	G	В	F	В	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		G
G08D29	108	G	G	В	G	G	3	3	В	В	F	В	В	G		G	В	G
G08M20	108	В	В	В	G		3	3	G	G	G	В	В	F	В	F	G	G
G09A86	109		G	В	В	В	3	2	G	G		В	В	В	F	G	G	В
G09Y24	109	G	В	В	G		4	4		В	Р	В	В	G		G	В	F
G10D21 NEW	110	G	G	В	G	G	3	3	G			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
G11V76 NEW	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	F	G	В	G	В	В	В	F	G
G13Z50	113	G	G	В	В	В	2	4	G	G	G	В	В	В	G	G	F	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.

### **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)	ОРТІМ	MUM SEEDING RAT (SEED	E (SEEDS/A) BY CO COST = \$200/80K		(\$/BU)
		\$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

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

### **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				NOMIC ERIST				EASE RANCE		B G G G B B F G F G F G B B G G G G B B B B											
	y (RM)												(%)	<b>(</b>				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)	%	NDF 48 hr (%)	Dig.	Starch (% of DN	(% of	TDN (% of DM)		Milk (lbs/Ton)*	Milk (lbs/A)*	Beef (lbs/Ton)*	Beef (lbs/A)*	
G84J92	86	3	3	1	3	3	5	-	4	В	G	G	G	В	В		G		G		G	
G89A09	89	2	3	3	2	3	5	-	4	В	G		G		-	G	-	G	G	G	G	
G91V51	91	3	5	1	4	3	4	-	4	В	G	G	G	G	-	G	-	В	В	В	В	
G90Y04	92	2	4	1	3	2	2	-	4	В	В		G	G	В	G	G	G	В	G	В	
G94P48	94	3	2	1	3	3	2	-	3	В	G	G	G	F	-	В	-	G	G	G	G	
G95D32	95	3	3	2	2	3	4	4	3	В		G	G	В	В	G	G	В	В	В	В	
G95M41	95	3	2	3	3	3	4	-	5	F	F	G		В	-		-	F	F	F	F	
G97N86	97	2	4	3	3	3	2	4	4	В	В	G		G	В	G	G	В	В	В	В	
G00H12	100	3	2	2	4	5	5	3	5	В	В	F	F	G	В				G		G	
G01P52	101	2	4	1	2	2	3	4	3	G	G	В	G	G	F	G	G	G	G	G	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	F	В	Р	F	Р	В		F	F	F		F	
G04S19	104	4	4	3	4	2	2	4	3	В	G	G	G	G	G	G	В	G	В	G	В	
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		G	G	G	В	В	G	В	G		G	F	
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	В	В	G	В	В		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	В	G	G	В	В	В	G	В	G	
G10L16	110	2	4	1	5	5	6	4	3	F	G	В	G	В	В	G	G	G		G	F	
G11A33	111	4	2	2	2	5	4	3	5	Р	G	В	В	В	В	G	В	G		G	F	
G12U17	112	3	4	4	2	3	3	4	5	G	G	В	В	В		G	G	G	G	G	G	
G13Z50	113	2	2	3	3	4	4	4	3	F	F	G	G	G	F	G	G	G	F	G	F	

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**

1 = Best

9 = Worst

- = Not available

### **Plant Height**

1 = Tall

9 = Short

### Ear Height

1 = High

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.

G = Good

= Fair

P = Poor

Drought:

- = Not available

water-optimized hybrid.

Agrisure Artesian

\*\*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

### **Ratings Key Using This Chart** B = Best

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.\*3

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.



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 hybrids<sup>2</sup>

# 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.

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

## **ENOGEN HYBRID CHARACTERISTICS**

PRODUCT	TRAIT O	FFERS*		ATUR ORMA								(	CH/		PLAN CTE		ICS	5		DIS	SEA	SE	TOI	LEF	AN	CE					
Enogen Hybrid Series	Above/Below Ground Insect Protection E-Z Refuge A AgrisureDuracade	Above/Below Ground Insect Protection A 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	Southern Corn Leaf Blight	Eyespot	Anthracnose Stalk Rot	Tarspot	Fusarium Crown Rot	Common Rust
E086J9	5122A		86	1200	2140	3	3	3	2	1	4	3	4	2	1	3	5	М	S-U	SF	М	R	-	3	4	-	3	2	-	2	-
E092T4		3000GT	92	1265	2350	3	3	5	4	3	3	3	2	5	3	2	2	F	Р	F	M	R	5	3	6	-	3	4	-	5	2
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	-	2	3	-	3	4
E100H1	5122		100	1315	2420	3	3	2	3	2	2	4	3	3	-	5	5	М	S-U			R	3	5	5	-	3	-	2	4	-
E101P5		3011A	101		2460	2	2	4	2	1	3	2	4	3	1	2	3	Р	U	SF			4	5	3	-	3	3	3	2	-
E105T1		3000GT	105	1355	2550	2	2	5	2	2	4	2	3	4	2	2	3	M	U			Pi	4	5	3	4	4	2	3	2	3
E106Q6	5122		106	1355	2560	3	3	3	3	2	3	4	3	5	-	4	5	M	U		M	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		SF	L	R	3	3	4	4	4	-	6	5	7
E107B3		3011A	109	1375	2570	4	2	5	4	1	4	4	5	4	-	3	4	М	Р	SF		Pi	5	4	4	5	3	4	-	4	-
E109R3		3000GT	109	1395	2570	3	2	5	2	2	4	2	4	2	-	2	3	М	U	SD			3	3	5	4	6	2	-	2	3
E109Y2	5122A		109	1420	2570	3	3	4	4	1	3	5	4	4	-	5	3	М	S-U			R	5	2	4	4	3	-	4	5	-
E111A3	5122		111	1435	2600	4	4	2	2	2	3	2	3	3	-	5	4	M	P 		M	R	3	3	5	4	2	-	4	4	3
E112J1	5400	3011A			2600		2	4	4	1	4	2	3	2	-	3	2	F	U	SF		R	3	4	3	3	4	-	-	4	3
E113Z5	5122		113	1435	2650	2	2	2	4	3	3	3	2	4	-	4	4	M	S-U	SD	M	К	4	3	3	4	4	-	_	4	
Rating Scale 1 = Best 9 = Worst - = Not availa Test Weight	ble	Plant Height 1 = Tall 9 = Short  Ear Height 1 = High	:		Root P = F M = N F = F Leaf	Pene Mod ibro	etrati lified us <b>e</b>				F 5 5	<b>Ear</b> F = F SF = SD = D = I	Flex Sei Se Dete	mi-F mi-E ermii	Dete		nate		Cob ( R = R Pi = F W = V	ed Pink Vhite ase	е	rand	ce		Δ	gris		Arte	esiar zed	า hyb	rid.
1 = High		9 = Low			U = L	Jpri	_				ŀ	Hus	k Co	over	•				1 = H	igh											

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.

S-U = Semi-Upright

P = Pendulum

### Note: Disease and Insect Ratings

9 = Low

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.

S = Short

L = Long

M = Medium

9 = Low

- = Not available

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

		HERBICIDE	TOLERANCE
	EVT TYPE	GLYPHOSATE	GLUFOSINATE
Engan Hybrida with Agricura Duracada® 5122 trait atack	EZT1	x	X
Enogen Hybrids with Agrisure Duracade® 5122 trait stack	EZT0	×	
	EVT5.1	×	x
Enogen Hybrids with Agrisure® 3000GT trait stack or	EVT3	×	
Agrisure Artesian® 3011A trait stack	EVTL	x	X
	No FVT	x	X

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.



**RM: 95** 

### **DIVERSE GENETICS WITH EXCITING YIELD PERFORMANCE**

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

<b>Rating</b> Emergence	9	7	5	3	BEST 1
Root Strength	• •	•	•	•	
Stalk Strength		•	•	•	0
Staygreen	• •	•	•	•	• •
Drydown		•	•	•	
Drought		0	0	•	• 0

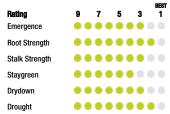
E095D3-5122 E-Z Refuge Brand

E100H1

**RM: 100** 

### **GREAT YIELD STABILITY ACROSS ENVIRONMENTS**

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



E100H1-5122 E-Z Refuge Brand

E101P5 Artesian

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

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



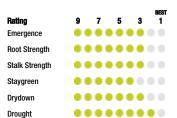
E101P5-3011A Brand

E106Q6

RM: 106

### 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



E106Q6-5122 E-Z Refuge Brand

E109R3

RM: 109

HIGH-YIELDING GENETICS THAT PERFORM ON YOUR BEST ACRES

- Outstanding stalk strength with a strong disease package
- · Well adapted in and north of zone
- Best performance at medium to high plant populations



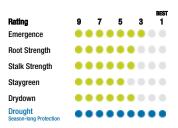
E109R3-3000GT Brand

E109Y2 Artesian

**RM: 109** 

### **EXCITING GENETICS WITH AGRISURE ARTESIAN TECHNOLOGY**

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



E109Y2-5122A E-Z Refuge Brand

## **ENOGEN HYBRID AGRONOMIC MANAGEMENT**

PRODUC	т			A	GRONO	MIC MA	NAGEN	/IENT A	ND PLA	CEMEN	T TRAI	rs			END-	USE TF	RAITS
			Se	eding R	ate % A	djustm	ent		Adapta	tion to S	Soil Typ	es/Yield	l Enviro	nments			
Enogen 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	liO
E086J9	86	G	G	В	В	G	3	2	G	В		В	В	В	В	F	F
E092T4	92	G	G	В	В	G	5	4	G	G	G	В	G	В	G	G	F
E095D3	95	G	В	В	G	G	3	2	G	В	G	В	В	В	В		F
E100H1	100	G	G	В	В	G	2	3	G	G	В	В	G	G		G	G
E101P5	101		G	В	В	В	4	2	G	В	G	В	В	G	G	В	F
E105T1	105		G	В	В	В	5	2	G	В	G	В	В	В	В		F
E106Q6	106	G	G	В	В	G	3	3	В	В		В	В	G	В		F
E108M2	108	В	В	В	G		3	3	G	G	G	В	В		В	F	G
E107B3	109	G	В	В	G	G	5	4	G	В		G	В	F	G		В
E109R3	109		G	В	В	В	5	2	G	В	F	В	В	В	В	G	F
E109Y2	109	G	В	В	G		4	4	F	В	Р	В	В	G		G	В
E111A3	111	G	G	В	G	G	2	2	В	G	Р	G	В	G	G	G	В
E112J1	112	G	G	В	G	G	4	4	G	В	Р	В	В	F		G	В
E113Z5	113	G	G	В	В	В	2	4	G	G	G	В	В	В	G	G	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. Agronomy ratings are relative based on other hybrids within the same maturity group.

### **Corn Population Response Factors**

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

### Influence of Yield Environment and Commodity Price on Optimum Seeding Rate

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 Trials¹

### STRONG DEFENSIVE AGRONOMICS

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

'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	UCT							A	GRON	ОМІС/	/PLAN	Т СНА	RACT	ERIST	ICS*					
<u>v</u>		ty (RM)		ype						Color			ting			on to So Environ				icide onses
Soybean Brands	Herbicide Tolerant Trait	Relative Maturity (RM)	Emergence	Canopy/Plant Type	Plant Height	Standability	Narrow Row	Wide Row	Flower Color	Pubescence Co	Pod Color	Hilum Color	Green Stem Rating	Drought Prone	High pH	Highly Productive	Variable	Ply Drained	Sulfentrazone	Metribuzin
GH0913E3 NEW	E3	0.9	3	М	М	3	1	1	WH	GR	TN	BF	-	-	_		-	-	-	G
GH0936X	RR2X	0.9	3	М	MS	4	1	2	PUR	LTW	TN	BR	2	G	G	G	G	G	В	В
GH1225X NEW	RR2X	1.2	3	М	М	3	1	2	PUR	LTW	TN	BL	-	G	G	G	G	G	В	В
GH1227LG NEW	LL/GT27	1.2	3	MT	М	2	1	2	PUR	LTW	TN	BR	-	-	-	-	-	-	-	-
S12-R3	RR2Y	1.2	3	М	М	2	3	2	PUR	LTW	TN	BL	3	G	В	В	G	G	В	В
GH1362E3	E3	1.3	3	MB	М	3	2	1	PUR	GR	TN	IMB	-	G	G	В	G	G	В	В
GH1414X NEW	RR2X	1.4	3	MT	MT	2	1	2	PUR	LTW	BR	BR	2	G	G	В	G	G	В	В
GH1557E3 NEW	E3	1.5	3	М	MT	3	1	1	PUR	GR	BR	IMB	-	-	-	-	-	-	-	G
GH1627LG	LL/GT27	1.6	3	М	М	2	1	2	PUR	LTW	TN	BL	-	G	F	G	G	G	В	В
GH1638X NEW	RR2X	1.6	2	М	М	2	1	1	PUR	LTW	TN	BL	1	В		В	В	В	В.	В
GH1763E3	E3	1.7	3	М	М	2	2	1	WH	LTW	TN	BL	-	G		G	G	G	В	В
GH1827LG	LL/GT27	1.8	3	М	М	2	1	2	PUR	LTW	TN	BL	-	G			G	G	В	G
GH1915X	RR2X	1.9	3	М	MS	2	1	2	WH	LTW	BR	BL	4			В	G	G	В	G
GH1944E3	E3	1.9	3	MT	М	2	2	2	PUR	GR	TN	IMB	-		G	F	G	G	В	В
GH1955E3 NEW	E3	1.9	2	М	М	4	2	2	PUR	GR	BR	IMB	-	-	-	-	-	-	-	F
GH2011E3	E3	2.0	3	М	М	2	1	1	PUR	GR	BR	BF	2	G		G	В	G	G	В
GH2027LG	LL/GT27	2.0	3	М	MT	2	2	2	WH	LTW	BR	BR	2	G		G	В	G	В	В
GH2041X	RR2X	2.0	3	М	М	2	1	2	WH	LTW	BR	BL	3	G	G	В	В		В	В
GH2230X	RR2X	2.2	3	М	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	TN	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	TN	BL	2			G			В	В
GH2427LG	LL/GT27	2.4	2	MB	М	3	3	1	PUR	LTW	BR	BL	3	В	G	В	В	G	В	В
GH2505E3 NEW	E3	2.5	3	М	MT	5	3	1	PUR	GR	BR	IMB	-	-	-	-	-	-	-	G
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	М	М	2	1	2	PUR	GR	TN	BF	2		G	В	G	G	G	В
GH2788X	RR2X	2.7	3	М	MS	2	1	1	PUR	GR	BR	IMB	3	G	Р	В	G	В	F	G
GH2818E3	E3	2.8	2	М	М	3	1	1	WH	GR	TN	BF	2	В		В	В	G	G	В

<sup>\*</sup> 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™

LL/GT27 = LIBERTY LINK® AND GT27™

Canopy/ Plant Type

T = Thin
MT = Medium-Thin
M = Medium

MB = Medium-Bush B = Bush Plant Height

S = Short MS = Medium-Short M = Medium MT = Medium-Tall

T = Tall

**Growth Habit**IND = Indeterminate
DET = Determinate

**Color Abbreviations** BF = Buff

BF = Buff BL = Black

BR = Brown GR = Gray

IMB = Imperfect Black
IMY = Imperfect Yellow

LTW = Light Tawny PUR = Purple

TN = Tan

TW = Tawny WH = White

YEL = Yellow

Adaptation to Soil Types/ Yield Environments

B = Best G = Good

| = Good | F = Fair | P = Poor

- = Not available

	AIN LITY*				DISEAS	E/PEST*	,					PRODUCT
% mst.	st.	Phytophthora	Root Rot		an Cyst atode		ŧ	te	ght	(6	pot	S
% 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)	Pod & Stem Blight (PSB)	Sudden Death Syndrome (SDS)	Frogeye Leaf Spot (FELS)	Soybean Brands
_	_	S	3	PI88788	_	4	_	4	-	-	-	GH0913E3 NEW
34.1	19.0	Rps1k, Rps3a	3	S	s	3	3	4	4	3	-	GH0936X
37.7	18.6	Rps3a	3	PI88788	MR3	3	-	3	2	2	-	GH1225X
-	-	Rps1k	4	PI88788	-	4	-	2	-	5	-	GH1227LG NEW
36.2	18.6	S	4	PI88788	R3, MR14	2	2	2	4	3	-	S12-R3
34.9	18.6	Rps1c	4	PI88788	MR3, MR14	3	3	5	5	4	-	GH1362E3
34.0	18.4	Rps1c	2	PI88788	MR3, MR14	3	3	3	2	3	-	GH1414X NEW
-	-	Rps1k	3	PI88788	-	4	-	3	-	-	-	GH1557E3 NEW
33.3	19.4	S	3	PI88788	MR3	4	-	3	3	4	5	GH1627LG
36.2	19.1	Rps1k, Rps3a	2	PI88788	MR3	4	-	4	4	4	6	GH1638X NEW
35.3	18.8	S	4	PI88788	MR3	4	-	3	5	2	5	GH1763E3
35.1	19.6	Rps1c	3	PI88788	MR3, MR14	4	-	3	5	3	3	GH1827LG
33.6	19.6	Rps1c	4	PI88788	R3, MR14	4	5	3	5	3	5	GH1915X
34.3	20.1	Rps1c	3	PI88788	MR3, MR14	3	-	3	3	5	5	GH1944E3
-	-	S	3	PI88788	R3, MR14	4	-	3	-	-	-	GH1955E3 NEW
36.0	19.0	Rps1c, Rps3a	2	PI88788	MR3	4	-	4	-	2	4	GH2011E3
-	-	S	4	PI88788	MR3, MR14	4	-	3	-	2	5	GH2027LG
35.0	19.2	Rps1c	4	PI88788	R3, MR14	3	5	3	3	2	5	GH2041X
34.1	19.5	Rps1c	4	PI88788	R3, MR14	4	5	3	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
36.1	19.7	S	4	PI88788	MR3	3	-	4	-	3	6	GH2427LG
-	-	S	3	PI88788	-	3	-	5	-	5	-	GH2505E3 NEW
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	3	2	5	GH2788X
35.1	20.4	Rps1k	4	PI88788	MR3	4	-	3	-	3	3	GH2818E3

### 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:

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

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

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

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

### **Disease/Pest Ratings**

1 = Best

9 = Worst - = Not available

ematode

GH0936X BRAND

RM: 0.9

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

- Good choice for high pH soils
- Well rounded agronomic package allows broad placement
- Excels in Western environments

<b>Rating</b> Emergence	9	7	5	3	BEST 1
Standability	•	•	•	0	
Phytophthora Field Tolerance	•	•	•	•	
Sudden Death Syndrome	•	•	•	•	
Sclerotinia White Mold	•	•	•	0	
Iron Deficiency Chlorosis	•	•	•	•	



GH1225X BRAND

**NEW // RM: 1.2** 

### AGRONOMIC LEADER WITH STRONG YIELD POTENTIAL

- Very good field tolerance to Phytophthora Root Rot with the Rps3a gene
- Solid choice for the SCN/IDC acre
- Dependable standability and moderate plant type work well on acres prone to Sclerotinia White Mold

Rating	9	7	5	3	BEST 1
Emergence	•	•	•		
Standability	•	•	•	•	
Phytophthora Field Tolerance	•	•	•	•	
Sudden Death Syndrome	•	•	•	•	0
Sclerotinia White Mold	•	•	•	•	
Iron Deficiency Chlorosis	•	•	•	•	



GH1362E3 BRAND

RM: 1.3

0 0

0 0

0.0

0 0

### STRONG PERFORMANCE ACROSS A WIDE GEOGRAPHY

- SCN protection with very good tolerance to Iron Deficiency Chlorosis
- Rps1c gene with good Phytophthora Root Rot field tolerance
- Medium-bush canopy helps close the row

	-				
Rating	9	7	5	3	
Emergence	•	• •	• •	• •	)
Standability	•	• •	• •	•	)
Phytophthora Field Tolerance	•	••	••	• 0	
Sudden Death Syndrome	•	• •	••	• 0	
Sclerotinia White Mold	•	• •	••		
Iron Deficiency Chlorosis	•	• •	• •	• •	)
Sudden Death Syndrome Sclerotinia White Mold					



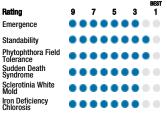


# GH1414X BRAND

**NEW** // RM: 1.4

### **OUTSTANDING DISEASE PACKAGE WITH SUPERIOR PERFORMANCE ACROSS ALL YIELD LEVELS**

- Exceptional top-end yield with agronomics to support
- Rps1c gene with excellent field tolerance to Phytophthora
- Very good Sclerotinia White Mold tolerance and standability



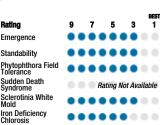


GH1557E3 BRAND

**NEW** // RM: 1.5

### **NEW AND IMPROVED ENLIST GENETICS**

- Rps1k with strong field tolerance to Phytophthora Root Rot
- Solid standability and tolerance to Sclerotinia White Mold
- · Well-suited for high yielding acres





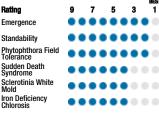


# GH1638X BRAND

**NEW** // RM: 1.6

### **EXCEPTIONAL PERFORMANCE ACROSS GEOGRAPHIES AND YIELD LEVELS** IN PROVEN GENETICS

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





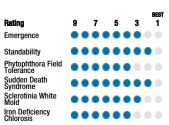


# GH1763E3 BRAND

### RM: 1.7

### **COMBINES STRONG YIELD WITH AGRONOMICS**

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



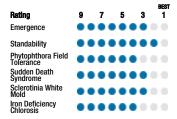


# GH1915X BRAND

### 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







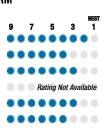
# GH1955E3 BRAND

### **NEW** // RM: 1.9

### YIELD IMPROVEMENT ON THE ENLIST TRAIT PLATFORM

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

# Rating Emergence Standability Phytophthora Field Tolerance Sudden Death Syndrome Sclerotinia White Mold Iron Deficiency Phyrosis





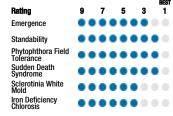


# GH2011E3 BRAND

### 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







"GOLDEN HARVEST IS BUILT ON A LEGACY OF RELIABLE PERFORMANCE AND IS
EXPANDING ITS STRONG SEED PORTFOLIO TO HELP FARMERS GET THE MOST YIELD
OUT OF EVERY FIELD. OUR CORN HYBRIDS AND SOYBEAN VARIETIES ARE LOCALLY
TESTED AND PROVEN ACROSS MULTIPLE YEARS AND ENVIRONMENTS, ENSURING
STRONG AND CONSISTENT PERFORMANCE YEAR IN AND YEAR OUT."

### **Steve Wilkens**

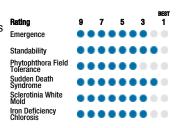
Golden Harvest East Agronomy Manager

GH2041X BRAND

RM: 2.0

### **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



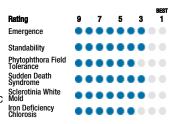


GH2230X BRAND

**RM: 2.2** 

### TOP YIELD POTENTIAL ON PRODUCTIVE ACRES

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

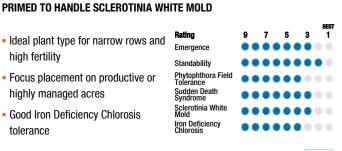




GH2279E3 BRAND

RM: 2.2

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





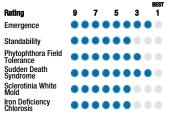


GH2329X BRAND

**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 Pl89772 source of SCN resistance
- Strong Phytophthora field tolerance and Rps1c gene





SCN ROUNDUP READY 2
TEND

"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

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

<b>Rating</b> Emergence	9	7	5	3	BEST 1
Standability	•	•	•	•	
Phytophthora Field Tolerance	•	•	•	•	
Sudden Death Syndrome	•	•	•	•	
Sclerotinia White Mold	•	•	•		
Iron Deficiency Chlorosis	•	•	•	•	



# GH2610E3 BRAND

RM: 2.6

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

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

					BEST
Rating	9	7	5	3	1
Emergence	•	•	•		•
Standability	•	•	•	•	•
Phytophthora Field Tolerance	•	•	•	0	
Sudden Death Syndrome	•	•	•	•	
Sclerotinia White Mold	•	•	•	0	
ron Deficiency Chlorosis	•			•	

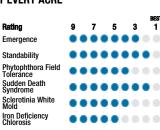


GH2788X BRAND

RM: 2.7

### DOMINANT PERFORMANCE ON ALMOST EVERY ACRE

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





# GH2818E3 BRAND

RM: 2.8

### HIGH-YIELDING, GO ALMOST ANYWHERE GENETICS

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







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

**Justin Welch** 

Head, Digital US Seeds



### **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

'U.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

### SEED CARE



### CruiserMaxx Vibrance

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



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



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.

### **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 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.

### **INSECTICIDES**



### 

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.



# 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:



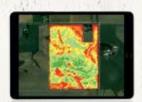
### **GaMePLaN**

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



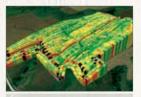
### RangeFinder

- 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

# 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.

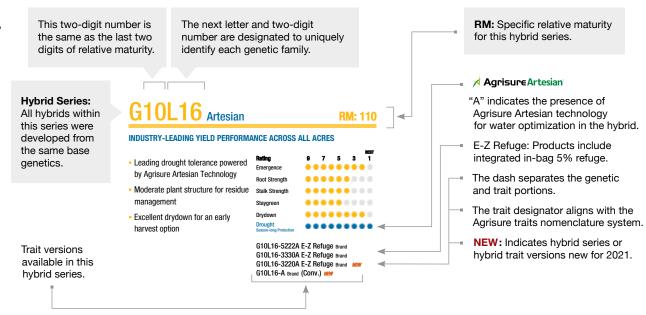


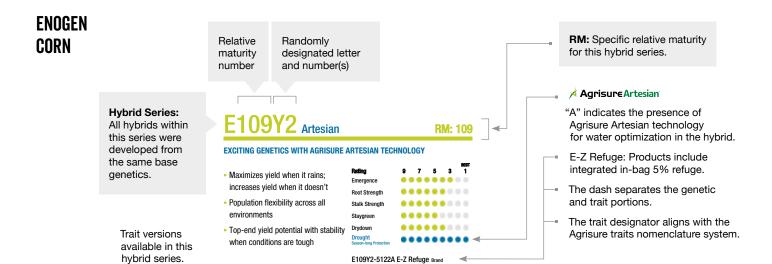
On each seed bag tag, farmers will see four numbers. How it works:

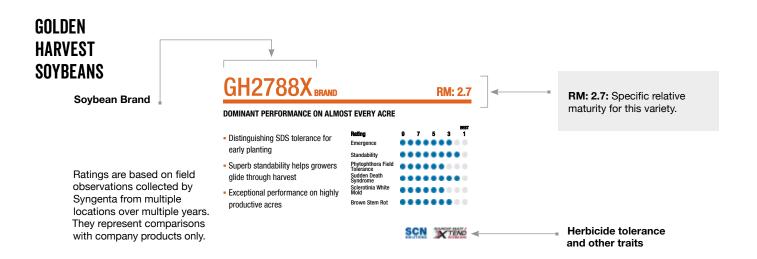
MASTER BRAN	D SUFFIX	TECH SERIES	TRAITS	ARTESIAN HYBRID	INTEGRATED, SINGLE BAG
Agrisure Agrisure	Duracade Viptera	[5] [3]	MODES OF ACTION  2 2 2  Leave the second sec	[A]	E-Z Refuge
The master brand.	The <b>brand suffix</b> changes as new technologies are introduced.	The technology series is indicated by the first number.	The numerical identifiers represent the number of insect control modes of action.  Note: Insect categories are in alphabetical order	The <b>letter A</b> indicates the hybrid is a water-optimized Agrisure Artesian hybrid.	The <b>E-Z Refuge</b> descriptor indicates that the hybrid is an integrated, single-bag refuge product.

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

### GOLDEN HARVEST CORN







# PROTECT AND PRESERVE.

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

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

### STEWARDSHIP REQUIREMENTS

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

### **BEST MANAGEMENT PRACTICES**

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

### CORN REFUGE REQUIREMENTS

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

TRAIT STACK*	MINIMUM REFUGE REQUIREMENT CORN-GROWING REGION	MINIMUM REFUGE REQUIREMENT COTTON-GROWING REGION				
Agrisure3000GT AgrisureArtesian	20%	50%				
AgrisureViptera	20%					
AgrisureViptera  3220 E2 Refuge  AgrisureViptera  3330 E2 Refuge  Agrisure3120  E2 Refuge  Agrisure3122  E2 Refuge  AgrisureDuracade  5122 E2 Refuge  AgrisureDuracade  522 E2 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

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.





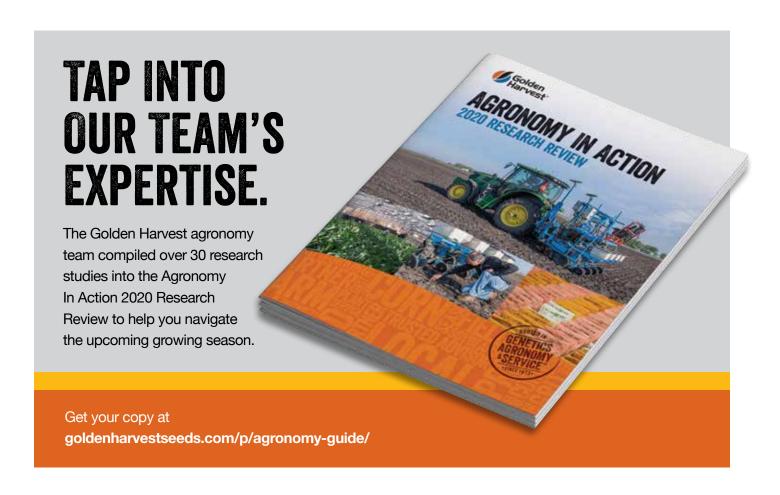






### **GRAIN MARKETING**

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.



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 Evo, 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.

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

Important: Always read and follow label and bag tag instructions; only those labeled as tolerant to glufosinate may be sprayed with glufosinate ammonium based herbicides. LibertyLink®, Liberty® and the Water Droplet logo are registered trademarks of BASF. GT27™ is a trademark of M.S. Technologies and BASF. HERCULEX® and the HERCULEX Shield are trademarks of Dow AgroSciences, LLC. HERCULEX Insect Protection technology by Dow AgroSciences. Under federal and local laws, only dicamba-containing herbicides registered for use on dicamba-tolerant varieties may be applied. See product labels for details and tank mix partners. Golden Harvest® and NK® Soybean varieties are protected under granted or pending U.S. variety patents and other intellectual property rights, regardless of the trait(s) within the seed. The Roundup Ready 2 Yield® and Roundup Ready 2 Xtend® traits may be protected under numerous United States patents. It is unlawful to save soybeans containing these protected traits for planting or transfer to others for use as a planting seed. Only dicamba formulations that employ VaporGrip® Technology are approved for use with Roundup Ready 2 Xtend® soybeans. Only 2,4-D choline formulations with Colex-D® Technology are approved for use with Enlist E3® soybeans. Roundup Ready 2 Yield®, Roundup Ready 2 Xtend®, and VaporGrip® and YieldGard VT Pro® are trademarks of, and used under license from, Monsanto Technology LLC. ENLIST E3® soybean technology is jointly developed with Dow AgroScience 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. 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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