

SOYBEANS
E-LUMINATE
2021
SEED GUIDE
TRUSTED
LOCAL
PARTNERS

WORTH
DETERMINED
HARD WORKING
FARMERS
GENES
TRAITS
GENETICS
HYBRIDIZATION
ARTISAN



CENTRAL ILLINOIS



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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 QUILTS.

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



UNIQUE GENETICS

To help you hit your harvest numbers, Golden Harvest is continually investing in optimizing product performance and bringing you a range of local choices. Our agronomists and R&D teams work closely with your local Seed Advisor to understand the issues you face and help address them with a locally bred and tested corn and soybean lineup that combines elite genetics with the most choice in industry-leading traits. But the real proof is in the field, where our corn and soybean products yielded 55 Top 3 Finishers and 185 Top 10 Finishers in 2019 FIRST Trials.¹



AGRONOMIC EXPERTISE

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



TIRELESS SERVICE

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

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



LOCALLY PROVEN CORN WITH INDUSTRY- LEADING GENETICS

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

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

**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.

Agrisure Duracade®

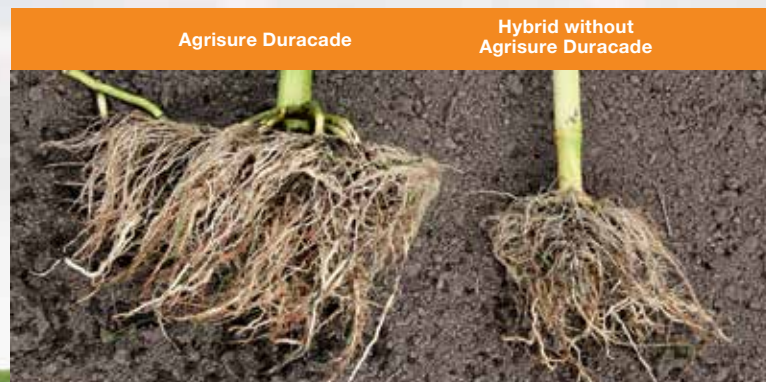
- Features a unique mode of action for strong control of corn rootworm
- Protects root systems for better nutrient and water uptake, helps ensure fuller leaves for increased photosynthesis and maximum grain fill, and results in strong plants that stand all season long
- Provides a new trait rotational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

Agrisure Viptera®

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

Agrisure Artesian®

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



*Data based on 2018 Syngenta trials

**Study results from Syngenta field trials in 33 locations

² 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 as severe and fewer than 50 bu/A as extreme.

CORN CHARACTERISTICS

PRODUCT	TRAIT OFFERS						
	Above/Below Ground Insect Protection with E-Z Refuge		Above Ground Insect Protection with E-Z Refuge	Above/Below Ground Insect Protection	Above Ground Insect Protection	No Insect Protection	No Insect Protection
Golden Harvest Hybrid Series	Agrisure Duracade	Agrisure 3122	Agrisure 3120 Agrisure Viptera	Agrisure 3000GT Agrisure Viptera 311	Agrisure Viptera 310	Agrisure GT Agrisure GT/LL	Conventional
	G03R40	5222					
G04G36 <i>NEW</i>				3111A <i>NEW</i>			
G05K08	5122A						
G06Q68	5222		3220				
G07F23				3111		GT	Conv.
G08D29	5122A		3120A				
G08M20	5122		3120				
G08R52			3220				
G09A86			3330	3000GT		GT/LL	
G09Y24	5222A		3220A				
G10D21 <i>NEW</i>			3330 <i>NEW</i>				
G10L16	5222A		3330A, 3220A <i>NEW</i>				Conv.-A <i>NEW</i>
G10T63		3122	3120				
G11F16				3111A			
G12S75 <i>NEW</i>	5122 <i>NEW</i>						
G12U17	5122		3120				
G12W66			3220				
G13H15	5122		3120				
G13M88					3110		
G13T41	5122		3120				
G13Z50	5222		3220				
G14N11	5222						
G14R38		3122	3120			GT	Conv.
G14V04						GT	
G15J91 <i>NEW</i>			3220 <i>NEW</i>				
G15L32	5222 <i>NEW</i>		3330	3000GT			
G18D87				3111		GT	

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.



MATURITY INFORMATION			AGRONOMIC CHARACTERISTICS									PLANT CHARACTERISTICS						DISEASE TOLERANCE										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	Plant Height	Ear Height	Root Type	Leaf Type	Ear Flex	Husk Cover	Cob Color	Gray Leaf Spot	Northern Corn Leaf Blight	Goss's Wilt	Bacterial Leaf Streak	Southern Corn Leaf Blight	Eyespot	Anthraxnose Stalk Rot	Tarspot	Fusarium Crown Rot	Common Rust	Golden Harvest Hybrid Series
103	1335	2445	2	3	2	2	3	2	3	4	2	4	4	M	U	SD	M	R	4	5	3	3	5	3	-	3	2	-	G03R40
104	1320	2550	4	2	2	3	1	3	5	3	4	5	6	M	S-U	SF	L	R	3	3	3	5	3	4	5	4	5	-	G04G36 <i>NEW</i>
105	1310	2555	3	4	4	3	1	3	6	3	4	5	6	P	U	SD	M	R	4	3	4	6	4	3	4	5	5	-	G05K08
106	1355	2560	3	3	3	3	2	3	4	3	5	4	5	M	U	SF	M	R	5	2	4	4	3	5	-	4	4	-	G06Q68
107	1375	2570	3	3	3	2	2	3	4	3	4	5	5	M	S-U	SF	M	Pi	3	2	4	5	5	3	-	3	3	5	G07F23
108	1405	2560	2	3	3	3	1	2	5	4	4	4	5	M	S-U	SF	M	Pi	4	2	3	2	6	4	-	4	4	4	G08D29
108	1365	2575	3	3	3	3	3	5	5	4	3	5	5	M	S-U	SF	L	R	3	3	4	4	4	4	-	6	5	7	G08M20
108	1370	2580	3	3	2	2	2	4	4	4	4	5	5	M	U	SF	M	R	5	3	4	4	5	-	-	-	5	-	G08R52
109	1385	2580	3	2	3	2	3	5	4	4	4	3	4	M	S-U	SD	M	Pi	2	5	4	4	4	5	-	4	4	5	G09A86
109	1420	2570	3	3	4	4	1	3	5	4	4	5	3	M	S-U	SF	M	R	5	2	4	4	4	3	-	4	5	-	G09Y24
110	1410	2570	3	2	3	3	3	5	3	4	4	3	2	M	S-U	SD	S	Pi	2	2	3	4	-	-	2	3	4	3	G10D21 <i>NEW</i>
110	1395	2620	2	3	4	4	1	4	5	2	4	5	6	M	S-U	SF	M	R	4	6	3	3	4	3	-	-	4	7	G10L16
110	1405	2580	2	2	4	4	2	4	3	2	2	2	3	M	U	SF	M	R	3	4	3	4	3	5	-	4	2	4	G10T63
111	1430	2590	4	4	2	2	1	4	2	3	5	5	5	M	P	SF	M	R	4	3	5	5	4	2	-	5	3	4	G11F16
112	1430	2630	4	3	3	2	3	5	2	4	4	2	4	M	U	SF	M	R	3	3	3	4	6	-	3	2	3	7	G12S75 <i>NEW</i>
112	1425	2620	3	3	4	2	4	2	2	2	4	3	3	M	S-U	SF	M	R	4	3	5	3	5	-	-	-	2	-	G12U17
112	1425	2620	4	3	3	2	4	2	2	2	2	2	2	M	S-U	SF	M	W	4	4	3	5	4	4	-	-	3	3	G12W66
113	1420	2640	3	4	3	2	2	3	3	3	4	3	3	M	U	SD	M	R	3	4	3	4	5	-	-	-	2	-	G13H15
113	1430	2680	3	3	2	3	4	3	3	2	4	5	4	M	S-U	SD	M	R	3	3	3	4	3	5	-	-	3	4	G13M88
113	1435	2605	4	3	2	2	2	2	2	3	3	4	5	M	S-U	SF	L	R	4	2	5	3	4	2	-	-	4	2	G13T41
113	1435	2650	2	2	2	4	3	3	3	2	4	4	4	M	S-U	SD	M	R	4	3	3	3	4	4	-	-	4	7	G13Z50
114	1425	2660	2	2	2	4	3	2	3	3	5	3	2	M	U	SF	M	Pi	5	5	5	5	4	3	-	-	4	7	G14N11
114	1435	2630	3	3	2	3	3	3	4	3	3	3	2	M	U	SD	M	R	5	4	4	4	4	3	4	-	3	3	G14R38
114	1425	2660	2	1	4	3	3	4	3	4	5	3	3	M	S-U	SF	S	R	5	3	3	3	4	4	-	-	4	-	G14V04
115	1455	2665	4	5	2	4	3	4	4	4	3	3	5	M	U	SF	L	W	4	2	5	3	3	-	2	2	4	7	G15J91 <i>NEW</i>
115	1455	2645	2	3	3	4	4	3	2	4	2	4	5	M	S-U	SF	L	R	3	4	4	3	3	3	-	-	4	7	G15L32
118	1480	2700	4	4	4	3	3	3	2	3	2	2	3	M	S-U	SF	L	R	3	3	4	3	3	5	-	-	4	3	G18D87

Rating Scale

1 = Best
9 = Worst
- = Not available

Test Weight

1 = High
9 = Low

Plant Height

1 = Tall
9 = Short

Ear Height

1 = High
9 = Low

Root Type

P = Penetrating
M = Modified
F = Fibrous

Leaf Type

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

Ear Flex

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

Husk Cover

S = Short
M = Medium
L = Long

Cob Color

R = Red
Pi = Pink
W = White

Disease Tolerance

1 = High
9 = Low
- = Not available

Drought

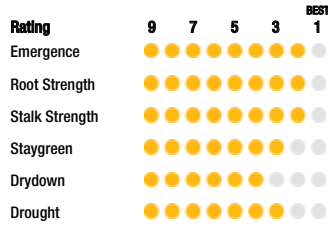
Agrisure Artesian
water-optimized hybrid.

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



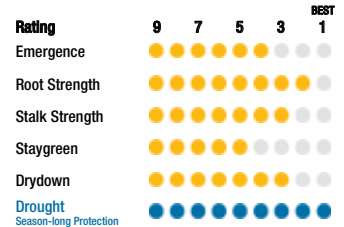
G03R40-5222 E-Z Refuge Brand

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



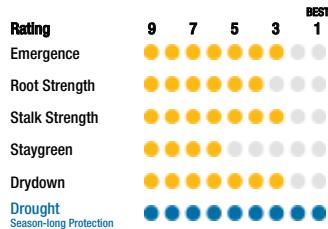
G04G36-3111A Brand NEW

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



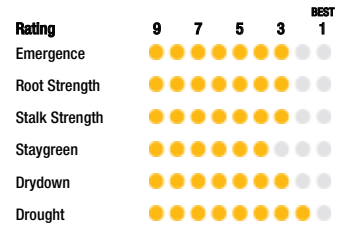
G05K08-5122A E-Z Refuge Brand

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



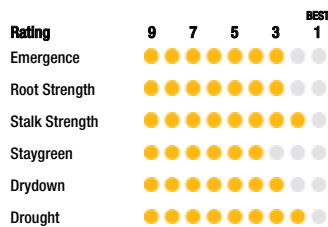
G06Q68-5222 E-Z Refuge Brand
G06Q68-3220 E-Z Refuge Brand
E106Q6-5122 E-Z Refuge Brand

G07F23

RM: 107

BROADLY ADAPTED HYBRID WITH CONSISTENT PERFORMANCE ACROSS YIELD ENVIRONMENTS

- Moderate plant stature with very good root strength
- Excellent stalk strength for late-season standability
- Consistent ear with very good grain quality



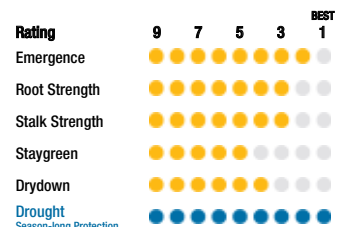
G07F23-3111 Brand
G07F23-GT Brand
G07F23 Brand (Conv.)

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



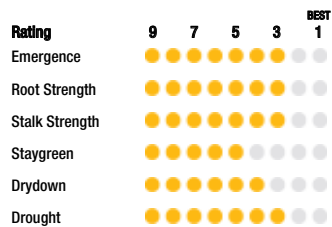
G08D29-5122A E-Z Refuge Brand
G08D29-3120A E-Z Refuge Brand

G08M20

RM: 108

EXCITING COMBINATION OF HIGH YIELDS AND SOLID AGRONOMICS

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



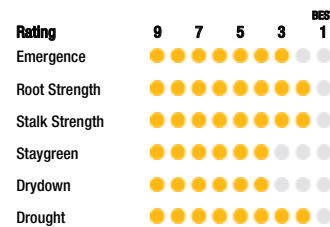
G08M20-5122 E-Z Refuge Brand
 G08M20-3120 E-Z Refuge Brand
 E108M2-5122 E-Z Refuge Brand

G08R52

RM: 108

EXCELLENT TOLERANCE TO HEAT AND MOISTURE STRESS WITH BROAD ADAPTATION

- Ear flex allows for population flexibility
- Outstanding roots and stalks for season-long standability
- High-performing hybrid with very strong yield across multiple environments



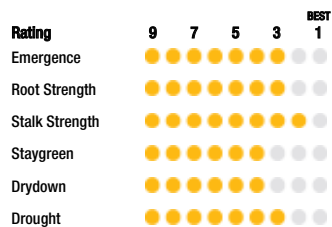
G08R52-3220 E-Z Refuge Brand

G09A86

RM: 109

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



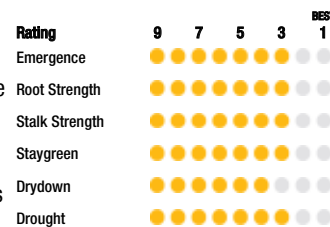
G09A86-3330 E-Z Refuge Brand
 G09A86-3000GT Brand
 G09A86-GT/LL Brand

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 package
- Maximize yield potential and performance with higher populations



G10D21-3330 E-Z Refuge Brand **NEW**

“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

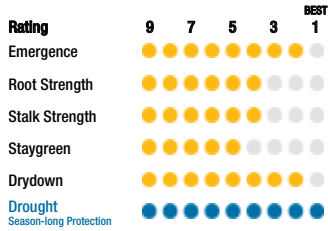
Head, Golden Harvest East Commercial Unit

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



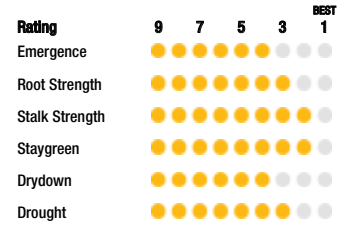
G10L16-5222A E-Z Refuge Brand
 G10L16-3330A E-Z Refuge Brand
 G10L16-3220A E-Z Refuge Brand **NEW**
 G10L16-A Brand (Conv.) **NEW**

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



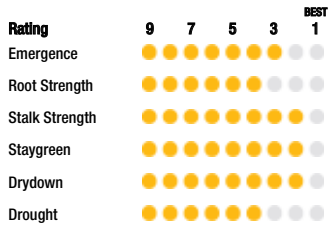
G12S75-5122 E-Z Refuge Brand **NEW**

G12U17

RM: 112

EXCELLENT STALKS FOR SEASON-LONG STANDABILITY

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



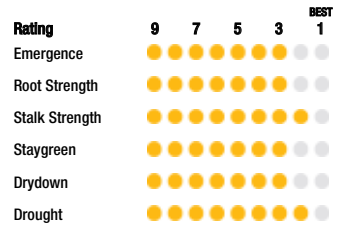
G12U17-5122 E-Z Refuge Brand
 G12U17-3120 E-Z Refuge Brand

G13H15

RM: 113

BROADLY ADAPTED HYBRID FOR EXCELLENT PERFORMANCE ACROSS YIELD ENVIRONMENTS

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



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



INSIGHTS FROM OUR AGRONOMISTS

Learn more about the exciting performance of G10L16.

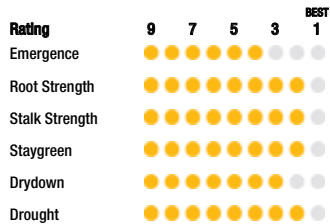


G13T41

RM: 113

EXCELS IN HIGH-YIELD, HIGHLY PRODUCTIVE ENVIRONMENTS

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



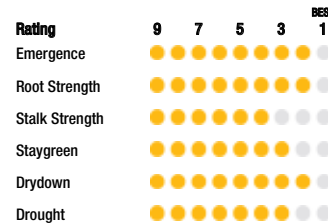
G13T41-5122 E-Z Refuge Brand
G13T41-3120 E-Z Refuge Brand

G13Z50

RM: 113

EXCELLENT EMERGENCE AND SOLID EARLY VIGOR

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



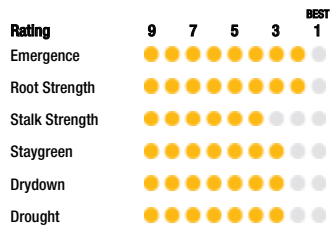
G13Z50-5222 E-Z Refuge Brand
G13Z50-3220 E-Z Refuge Brand
E113Z5-5122 E-Z Refuge Brand

G14N11

RM: 114

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



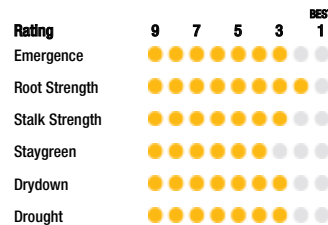
G14N11-5222 E-Z Refuge Brand

G14R38

RM: 114

OUTSTANDING YIELD PERFORMANCE WITH AN EXCELLENT AGRONOMIC PACKAGE

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



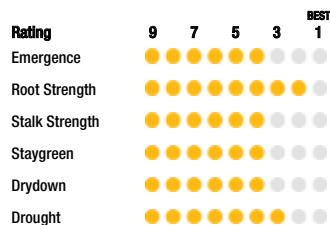
G14R38-3122 E-Z Refuge Brand
G14R38-3120 E-Z Refuge Brand
G14R38-GT Brand
G14R38 Brand (Conv.)

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



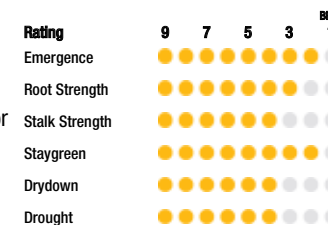
G15J91-3220 E-Z Refuge Brand **NEW**

G15L32

RM: 115

STRONG AGRONOMICS WITH STABLE YIELD PERFORMANCE

- Population driven for top-end performance
- Very good root and stalk strength for harvest flexibility
- Dependable staygreen to help maximize yield potential



G15L32-5222 E-Z Refuge Brand **NEW**
G15L32-3330 E-Z Refuge Brand
G15L32-3000GT Brand

CORN AGRONOMIC MANAGEMENT

PRODUCT		AGRONOMIC MANAGEMENT AND PLACEMENT TRAITS													END-USE TRAITS			
Golden Harvest Hybrid Series	Relative Maturity (RM)	Seeding Rate % Adjustment						Adaptation to Soil Types/ Yield Environments						Starch	Protein	Oil	Feed to Gain	
		-20%	-10%	0%	+10%	+20%	Root Strength	Stalk Strength	Corn-on-Corn	Drought Prone	High pH	Highly Productive	Variable					Poorly Drained
G03R40	103	F	G	B	B	G	2	2	B	G	G	B	G	B	F	G	G	F
G04G36 <i>NEW</i>	104	G	G	B	G	G	2	3	F	B	F	G	G	G	-	F	F	B
G05K08	105	G	B	B	G	G	4	3	G	B	G	B	B	G	G	G	B	B
G06Q68	106	G	G	B	B	G	3	3	B	B	F	B	B	G	B	F	F	G
G07F23	107	G	G	B	G	G	3	2	G	B	P	B	B	G	G	F	B	B
G08D29	108	G	G	B	G	G	3	3	B	B	F	B	B	G	F	G	B	G
G08M20	108	B	B	B	G	F	3	3	G	G	G	B	B	F	B	F	G	G
G08R52	108	G	G	B	G	G	2	2	G	B	F	F	G	G	B	G	P	G
G09A86	109	F	G	B	B	B	3	2	G	G	F	B	B	B	F	G	G	B
G09Y24	109	G	B	B	G	F	4	4	F	B	P	B	B	G	F	G	B	F
G10D21 <i>NEW</i>	110	G	G	B	G	G	3	3	G	F	F	G	G	G	G	G	B	G
G10L16	110	G	G	B	G	G	4	4	B	B	F	B	G	G	B	F	F	G
G10T63	110	G	B	B	G	G	4	4	G	G	P	B	B	P	G	F	B	G
G11F16	111	G	G	B	B	G	2	2	G	B	P	B	B	G	G	F	G	G
G12S75 <i>NEW</i>	112	G	G	B	G	G	3	2	B	F	F	B	B	B	-	B	F	G
G12U17	112	G	G	B	G	G	4	2	F	F	G	B	G	B	B	B	F	G
G12W66	112	G	G	B	G	G	3	2	B	F	G	B	G	G	G	F	G	G
G13H15	113	F	G	B	G	F	3	2	G	G	F	B	B	B	F	G	G	G
G13M88	113	G	G	B	G	G	2	3	G	G	G	B	G	G	F	B	B	G
G13T41	113	G	G	B	G	G	2	2	B	B	P	B	B	B	F	G	G	G
G13Z50	113	G	G	B	B	B	2	4	G	G	G	B	B	B	G	G	F	G
G14N11	114	G	B	B	G	F	2	4	B	G	G	B	G	B	B	B	F	B
G14R38	114	G	G	B	B	B	2	3	B	G	F	B	B	B	G	F	G	B
G14V04	114	G	G	B	G	G	4	3	G	B	B	G	B	G	F	B	P	B
G15J91 <i>NEW</i>	115	G	B	B	G	F	2	4	F	G	G	B	B	B	-	B	B	G
G15L32	115	G	G	B	G	G	3	4	G	G	B	B	G	G	B	F	F	G
G18D87	118	F	G	G	B	B	4	3	B	G	G	B	G	G	G	B	F	P

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)	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

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.

PRODUCT	AGRONOMIC CHARACTERISTICS	DISEASE TOLERANCE	AGRONOMIC RESEARCH RATINGS																		
			Feed Effect 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 (lbs/A)*	Beef (lbs/Ton)*	Beef (lbs/A)*
G03R40	103	2	2	3	3	4	4	4	3	F	B	P	F	P	B	F	F	F	F	F	F
G05K08	105	3	4	1	6	5	6	4	4	G	B	B	G	B	B	G	G	G	G	G	G
G06Q68	106	3	3	2	4	4	5	5	4	F	G	G	G	B	B	G	B	G	F	G	F
G07F23	107	3	3	2	4	5	5	3	4	B	G	G	G	G	G	B	B	B	B	B	B
G08D29	108	2	3	1	5	4	5	4	3	G	G	F	G	G	B	G	G	G	F	G	F
G08M20	108	3	3	3	5	5	5	3	4	G	B	B	G	B	B	F	G	F	F	F	F
G09A86	109	3	3	3	4	3	4	2	4	B	B	G	F	B	G	G	G	G	G	G	B
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	F	G	F
G10T63	110	2	4	2	3	2	3	3	3	B	F	F	F	F	B	G	G	G	B	G	B
G11F16	111	4	2	1	2	5	5	4	5	F	G	G	G	B	F	F	G	G	F	G	F
G12U17	112	3	4	4	2	3	3	4	5	G	G	B	B	B	F	G	G	G	G	G	G
G12W66	112	4	3	4	2	2	2	4	3	G	F	G	F	G	B	G	G	G	G	G	G
G13H15	113	3	3	2	3	3	3	3	3	B	F	G	F	G	F	G	G	G	B	G	B
G13M88	113	3	2	4	3	5	4	3	3	F	F	B	G	B	G	G	F	F	F	G	F
G13Z50	113	2	2	3	3	4	4	4	3	F	F	G	G	G	F	G	G	G	F	G	F
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G14R38	114	3	2	3	4	3	2	5	4	G	F	B	G	B	B	B	B	B	B	B	B
G14V04	114	2	4	3	3	3	3	5	3	G	G	G	F	G	F	G	G	G	G	G	G
G15L32	115	2	3	4	2	4	5	3	4	B	G	G	G	B	G	G	G	G	G	G	G
G18D87	118	4	4	3	2	2	3	3	4	B	B	G	B	G	G	B	B	B	B	B	B

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

Ratings Key

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

Drought:

Agrisure Artesian water-optimized hybrid.

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.

*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.

**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>

CORN WITH MORE PROFIT POTENTIAL

**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 HYBRID CHARACTERISTICS

PRODUCT	TRAIT OFFERS*	MATURITY INFORMATION			AGRONOMIC CHARACTERISTICS										PLANT CHARACTERISTICS					DISEASE TOLERANCE												
		Above/Below Ground Insect Protection E-Z Refuge AgrisureDuracade	Above/Below Ground Insect Protection Agrisure3000GT	Relative Maturity (RM)	GDUs to Silk	GDUs to Black Layer	Emergence	Seedling Vigor	Root Strength	Stalk Strength	Drought	Green Snap	Staygreen	Drydown	Test Weight	Plant Height	Ear Height	Root Type	Leaf Type	Ear Flex	Husk Cover	Cob Color	Gray Leaf Spot	Northern Corn Leaf Blight	Goss's Wilt	Bacterial Leaf Streak	Southern Corn Leaf Blight	Eyespot	Anthraxnose Stalk Rot	Tarspot	Fusarium Crown Rot	Common Rust
E106Q6	5122			106	1355	2560	3	3	3	3	2	3	4	3	5	4	5	M	U	SF	M	R	5	2	4	4	3	5	-	4	4	-
E108M2	5122			108	1365	2575	3	3	3	3	3	5	5	4	3	5	5	M	S-U	SF	L	R	3	3	4	4	4	4	-	6	5	7
E109R3			3000GT	109	1395	2570	3	2	5	2	2	4	2	4	2	2	3	M	U	SD	M	Pi	3	3	5	-	4	6	2	-	2	3
E109Y2	5122A			109	1420	2570	3	3	4	4	1	3	5	4	4	5	3	M	S-U	SF	M	R	5	2	4	4	4	3	-	4	5	-
E111A3	5122			111	1435	2600	4	4	2	2	2	3	2	3	3	5	4	M	P	SF	M	R	3	3	5	3	4	2	-	4	4	3
E113Z5	5122			113	1435	2650	2	2	2	4	3	3	3	2	4	4	4	M	S-U	SD	M	R	4	3	3	3	4	4	-	-	4	7
E118D8			3000GT	118	1480	2700	4	4	4	3	3	3	2	3	2	2	3	M	S-U	SF	L	R	3	3	4	3	3	5	-	-	4	3

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

Test Weight
1 = High
9 = Low

Plant Height
1 = Tall
9 = Short

Ear Height
1 = High
9 = Low

Root Type
P = Penetrating
M = Modified
F = Fibrous

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

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

Husk Cover
S = Short
M = Medium
L = Long

Cob Color
R = Red
Pi = Pink
W = White

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

Drought:
Agrisure Artesian
water-optimized hybrid.

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.

	EVT TYPE	HERBICIDE TOLERANCE	
		GLYPHOSATE	GLUFOSINATE
Enogen Hybrids with Agrisure Duracade® 5122 trait stack	EZT1	X	X
	EZT0	X	
Enogen Hybrids with Agrisure® 3000GT trait stack or Agrisure Artesian® 3011A trait stack	EVT5.1	X	X
	EVT3	X	
	EVTL	X	X
	No EVT	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.



EXPERIENCE THE ENOGEN EFFECT

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

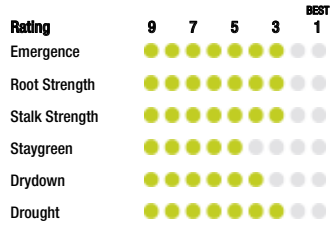


E108M2

RM: 108

EXCITING COMBINATION OF HIGH YIELDS AND SOLID AGRONOMICS

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



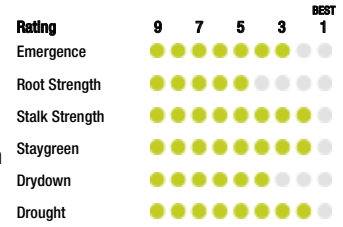
E108M2-5122 E-Z Refuge Brand

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



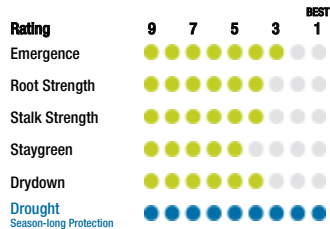
E109R3-3000GT Brand

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



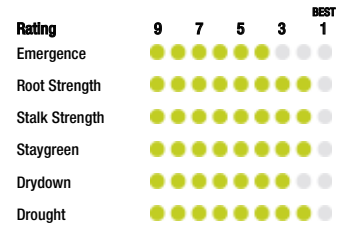
E109Y2-5122A E-Z Refuge Brand

E111A3

RM: 111

MODERATE PLANT HEIGHT WITH CONSISTENT YIELDS

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



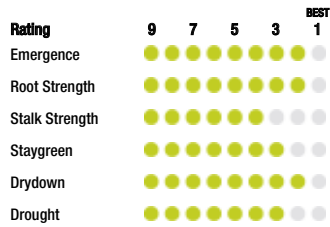
E111A3-5122 E-Z Refuge Brand

E113Z5

RM: 113

EXCELLENT EMERGENCE AND SOLID EARLY VIGOR

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



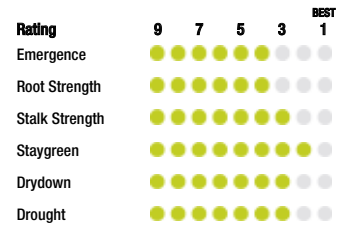
E113Z5-5122 E-Z Refuge Brand

E118D8

RM: 118

BROADLY ADAPTED WITH A COMPLETE AGRONOMIC PACKAGE

- Strong choice for highly productive irrigated and dryland systems
- Tall plant type with good stalks for improved standability
- Great plant health and staygreen promotes late-season intactness



E118D8-3000GT Brand

ENOGEN HYBRID AGRONOMIC MANAGEMENT

PRODUCT		AGRONOMIC MANAGEMENT AND PLACEMENT TRAITS													END-USE TRAITS		
Enogen Hybrid Series	Relative Maturity (RM)	Seeding Rate % Adjustment						Adaptation to Soil Types/Yield Environments						Starch	Protein	Oil	
		-20%	-10%	0%	+10%	+20%	Root Strength	Stalk Strength	Corn-on-Corn	Drought Prone	High pH	Highly Productive	Variable				Poorly Drained
E106Q6	106	G	G	B	B	G	3	3	B	B	F	B	B	G	B	F	F
E108M2	108	B	B	B	G	F	3	3	G	G	G	B	B	F	B	F	G
E109R3	109	F	G	B	B	B	5	2	G	B	F	B	B	B	B	G	F
E109Y2	109	G	B	B	G	F	4	4	F	B	P	B	B	G	F	G	B
E111A3	111	G	G	B	G	G	2	2	B	G	P	G	B	G	G	G	B
E113Z5	113	G	G	B	B	B	2	4	G	G	G	B	B	B	G	G	F
E118D8	118	F	G	G	B	B	4	3	B	G	G	B	G	G	G	B	F

Rating Scale
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 9 = Worst
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Score Interpretation
B = Best
G = Good
F = Fair
P = Poor
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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 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.

Continuous Corn Agronomic Characteristics: Favorable ratings in this column indicate hybrids containing multiple agronomic phenotypic traits deemed important for fields where corn is being cultivated for consecutive years. Ratings are weighted based on the following individual hybrid characteristics: yield, emergence strength, early vigor, root and stalk strength, staygreen and foliar disease tolerance.

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

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



SOYBEANS WITH PROVEN YIELD POTENTIAL AND INDUSTRY-LEADING CHOICE WEED CONTROL OPTIONS.

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

PROVEN PERFORMANCE

- Industry-leading genetics in locally bred and tested varieties for proven yield
- 23 Top 3 Finishers and 73 Top 10 Finishers in 2019 FIRST Trials¹

STRONG DEFENSIVE AGRONOMICS

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

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

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

PRODUCT			AGRONOMIC/PLANT CHARACTERISTICS*																	
Golden Harvest Soybean Brands	Herbicide Tolerant Trait	Relative Maturity (RM)	Emergence	Canopy/Plant Type	Plant Height	Standability	Narrow Row	Wide Row	Flower Color	Pubescence Color	Pod Color	Hilum Color	Green Stem Rating	Adaptation to Soil Types/ Yield Environments					Herbicide Responses	
														Drought Prone	High pH	Highly Productive	Variable	Poorly Drained	Sulfentrazone	Metricbuzin
GH2329X <i>NEW</i>	RR2X	2.3	2	MB	M	4	3	1	WH	LTW	BR	BL	3	G	F	G	G	B	B	B
GH2420E3	E3	2.4	3	M	MS	2	1	2	WH	LTW	TN	BL	2	F	F	G	F	F	B	B
GH2505E3 <i>NEW</i>	E3	2.5	3	M	MT	5	3	1	PUR	GR	BR	IMB	-	-	-	-	-	-	-	G
GH2523E3 <i>NEW</i>	E3	2.5	3	MB	M	3	2	1	PUR	GR	TN	IMB	-	-	-	-	-	-	-	F
GH2552X	RR2X	2.5	3	MB	MT	3	2	1	WH	LTW	BR	BL	2	G	G	G	B	B	B	B
GH2610E3	E3	2.6	2	M	M	2	1	2	PUR	GR	TN	BF	2	F	G	B	G	G	G	B
GH2788X	RR2X	2.7	3	M	MS	2	1	1	PUR	GR	BR	IMB	3	G	P	B	G	B	F	G
GH2818E3	E3	2.8	2	M	M	3	1	1	WH	GR	TN	BF	2	B	F	B	B	G	G	B
GH2981X	RR2X	2.9	2	MB	M	3	1	1	PUR	LTW	BR	BL	2	G	G	B	B	G	G	B
GH3042E3	E3	3.0	3	MB	M	3	2	1	PUR	GR	TN	IMB	3	G	F	G	G	G	B	B
GH3088X	RR2X	3.0	2	MB	M	3	1	1	PUR	LTW	BR	BL	3	G	G	B	G	B	B	B
GH3152E3S	E3/STS	3.1	2	MB	MT	3	1	1	PUR	GR	BR	BF	4	B	P	B	B	G	B	-
GH3347X <i>NEW</i>	RR2X	3.3	2	MT	T	3	1	1	PUR	LTW	TN	BL	2	B	G	B	B	G	B	B
GH3380E3 <i>NEW</i>	E3	3.3	3	MB	MT	3	2	1	PUR	LTW	BR	BR	-	-	-	-	-	-	-	G
GH3427LG	LL/GT27	3.4	3	M	M	2	2	2	PUR	LTW	TN	BL	2	G	G	G	G	G	B	B
GH3475X	RR2X	3.4	3	MB	M	3	2	1	PUR	LTW	BR	BL	3	G	F	B	G	B	B	G
GH3546X	RR2X	3.5	2	M	MT	3	1	1	PUR	LTW	BR	BL	2	G	G	B	B	B	B	B
GH3582E3	E3	3.5	2	M	M	2	1	1	PUR	GR	TN	IMB	2	B	P	B	G	G	B	B
GH3624E3	E3	3.6	2	M	M	2	3	2	WH	GR	BR	BF	2	F	F	B	G	F	F	B
GH3728X	RR2X	3.7	2	M	M	2	1	1	PUR	GR	BR	IMB	2	B	P	G	G	B	G	B
GH3759E3S	E3/STS	3.7	2	M	MT	2	1	1	WH	GR	BR	BF	-	G	P	B	G	B	B	B
GH3918E3S <i>NEW</i>	E3/STS	3.9	3	MB	M	3	2	1	WH	LTW	BR	BR	-	-	-	-	-	-	-	G
GH3922E3	E3	3.9	2	MB	M	2	1	1	WH	GR	BR	BF	3	B	F	G	G	G	G	G
GH3927LG	LL/GT27	3.9	3	M	MT	2	2	1	WH	LTW	BR	BL	-	G	F	F	B	G	B	B
GH3934X	RR2X	3.9	2	M	MT	3	2	2	PUR	GR	BR	IMB	1	B	G	B	G	G	G	B
GH4155E3	E3	4.1	2	MB	MT	2	1	1	PUR	LTW	TN	BR	2	G	G	G	F	G	G	G
GH4201E3 <i>NEW</i>	E3	4.2	3	M	M	3	1	1	WH	LTW	BR	BR	-	-	-	-	-	-	-	G
GH4240XS	RR2X/STS	4.2	2	M	MT	2	1	1	WH	GR	BR	BF	3	G	P	B	B	B	F	B
GH4307X	RR2X	4.3	3	M	MT	4	3	1	PUR	LTW	TN	BL	4	B	F	B	B	B	G	G
GH4314E3	E3	4.3	3	MB	M	3	2	1	WH	GR	TN	BF	2	F	P	F	G	F	G	G
GH4474E3 <i>NEW</i>	E3	4.4	3	M	M	3	1	1	PUR	GR	TN	IMB	-	-	-	-	-	-	-	G
GH4612E3S	E3/STS	4.6	1	M	MT	3	3	1	PUR	GR	BR	IMB	2	B	P	G	B	G	G	B

* 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®
 RR2X/STS = Roundup Ready 2 Xtend® and STS®
 E3 = ENLIST E3®
 E3/STS = ENLIST E3® and STS®
 LL/GT27 = Liberty Link® 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
 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
 F = Fair
 P = Poor
 - = Not available

GRAIN QUALITY*		DISEASE/PEST*										PRODUCT
% Protein @13% mst.	% Oil @13% mst.	Phytophthora Root Rot		Soybean Cyst Nematode		Southern Stem Canker	Iron Deficiency Chlorosis (IDC)	Brown Stem Rot (BSR)	Sclerotinia White Mold (SWM)	Sudden Death Syndrome (SDS)	Frogeye Leaf Spot (FELS)	Golden Harvest Soybean Brands
		Gene Resistance	Field Tolerance	Gene Source	Race Resistances							
34.9	19.0	Rps1c	3	PI89772	MR1, MR3	-	4	-	4	2	4	GH2329X <i>NEW</i>
34.7	19.1	S	5	PI88788	MR3	-	4	-	4	4	3	GH2420E3
-	-	S	3	PI88788	-	1	3	-	5	5	-	GH2505E3 <i>NEW</i>
-	-	Rps1k	3	PI88788	-	-	4	-	4	5	-	GH2523E3 <i>NEW</i>
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 <i>NEW</i>
-	-	S	3	PI88788	-	1	3	-	5	4	4	GH3380E3 <i>NEW</i>
35.9	19.3	S	3	PI88788	MR3	-	3	-	-	3	3	GH3427LG
35.3	19.0	S	3	PI88788	R3	-	4	3	-	3	2	GH3475X
33.3	19.2	S	3	PI88788	R3	-	3	4	4	2	2	GH3546X
35.0	19.9	S	3	PI88788	R3, MR14	1	5	4	-	3	5	GH3582E3
37.0	18.8	S	3	PI88788	MR3	1	4	4	-	4	2	GH3624E3
35.7	19.1	Rps1c	2	PI88788	R3, R14	2	5	3	-	3	3	GH3728X
35.2	20.2	Rps1k	3	PI88788	MR3	1	5	5	-	4	2	GH3759E3S
-	-	Rps1k	4	PI88788	-	1	5	-	-	4	2	GH3918E3S <i>NEW</i>
35.1	20.2	Rps1a	4	PI88788	MR3	1	4	3	-	3	3	GH3922E3
36.9	19.5	S	4	PI88788	MR3	1	4	-	-	4	2	GH3927LG
35.7	19.4	Rps1c	4	PI88788	R3, R14	1	3	4	-	2	4	GH3934X
36.0	19.6	Rps3a	4	PI88788	MR3	-	3	4	-	5	3	GH4155E3
-	-	S	4	PI88788	-	1	-	-	-	3	2	GH4201E3 <i>NEW</i>
34.5	19.5	Rps1c	3	PI88788	R3	1	6	2	-	3	5	GH4240XS
34.1	20.1	S	4	PI88788	R3, MR14	3	4	4	-	3	2	GH4307X
36.4	19.8	Rps1a	4	PI88788	MR3	1	5	4	-	4	2	GH4314E3
-	-	Rps1a	3	PI88788	-	1	-	-	-	2	3	GH4474E3 <i>NEW</i>
36.6	19.8	S	4	PI88788	MR3	1	6	4	-	3	4	GH4612E3S

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

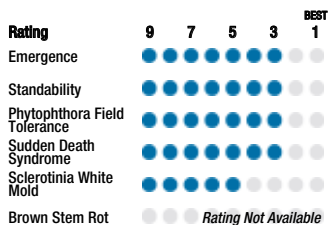
1 = Best
 9 = Worst
 - = Not available

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

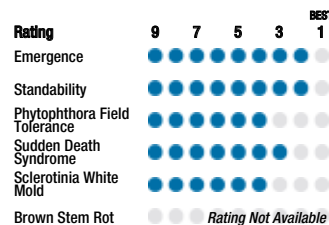


GH2610E3 BRAND

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

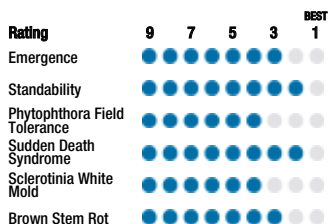


GH2788X BRAND

RM: 2.7

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

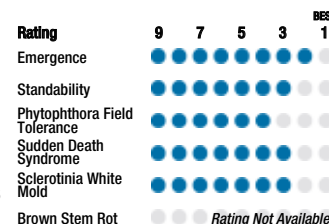


GH2818E3 BRAND

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

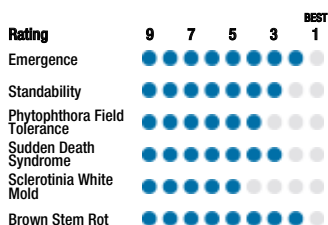


GH2981X BRAND

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

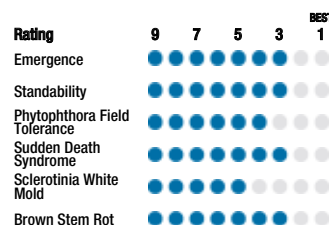


GH3042E3 BRAND

RM: 3.0

BROADLY ADAPTED, HIGH-PERFORMING PRODUCT

- Excels under higher management practices
- Proven SDS tolerance allows for early planting
- Dependable standability

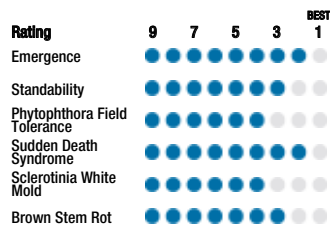


GH3088X BRAND

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

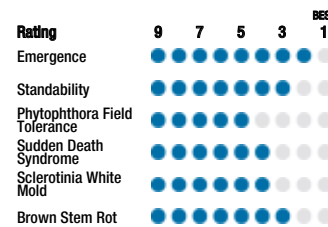


GH3152E3S BRAND

RM: 3.1

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

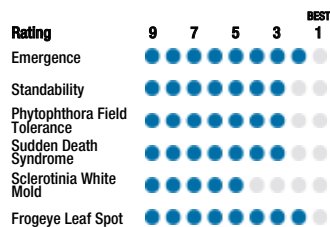


GH3347X BRAND

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

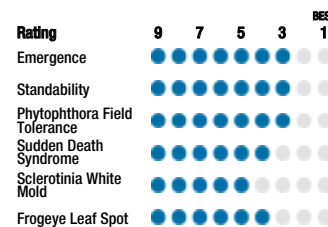


GH3380E3 BRAND

NEW // RM: 3.3

TOP-END YIELD POTENTIAL WITH ROBUST AGRONOMICS

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



“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

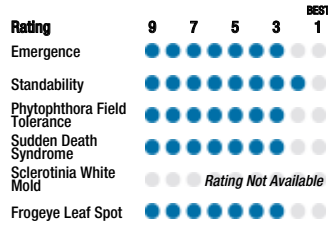
Golden Harvest East Agronomy Manager

GH3427LG BRAND

RM: 3.4

DEPENDABLE YIELD POTENTIAL WITH GREAT TOP-END POTENTIAL

- Proven SDS tolerance
- Outstanding season-long standability
- Very good Frogeye Leaf Spot tolerance

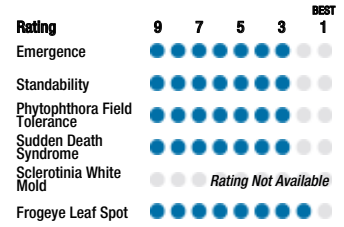


GH3475X BRAND

RM: 3.4

GREAT CHOICE FOR THE HIGHLY PRODUCTIVE ACRE

- Very strong defensive package
- Dependable standability in a larger plant type
- Broad adaptation north to south

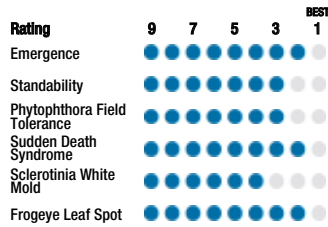


GH3546X BRAND

RM: 3.5

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

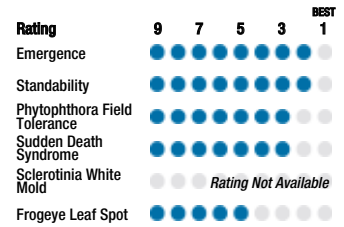


GH3582E3 BRAND

RM: 3.5

SUPERIOR PERFORMANCE ACROSS GEOGRAPHIES

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

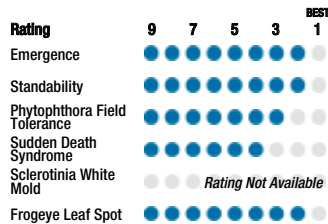


GH3624E3 BRAND

RM: 3.6

STABLE PERFORMANCE ACROSS ACRES

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

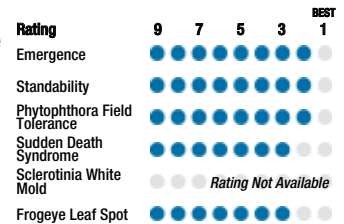


GH3728X BRAND

RM: 3.7

STRONG PERFORMANCE ACROSS ENVIRONMENTS

- Great yields North and South of zone
- Outstanding Phytophthora with proven SDS tolerance
- Very good heat and drought tolerance

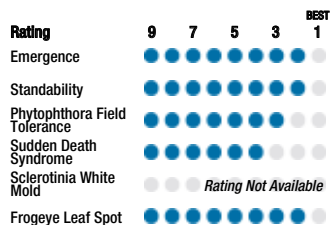


GH3759E3S BRAND

RM: 3.7

NICE COMBINATION OF OFFENSE AND DEFENSE

- Rps1k gene with proven Phytophthora field tolerance
- Great performance in fine-textured, poorly drained soils
- Flexible product with STS herbicide tolerance

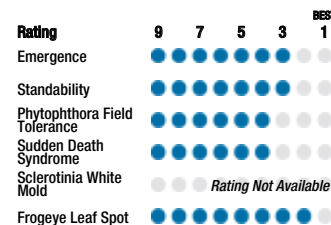


GH3918E3S BRAND

NEW // RM: 3.9

CONSISTENT YIELDS WITH DEPENDABLE DEFENSE

- Excellent tolerance to Frogeye Leaf Spot
- Widely adapted to all soil types
- STS tolerance for flexible placement

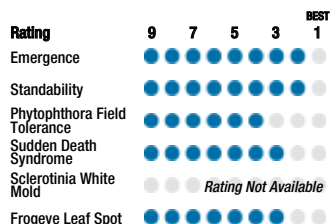


GH3922E3 BRAND

RM: 3.9

TOP YIELDS ACROSS ENVIRONMENTS

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

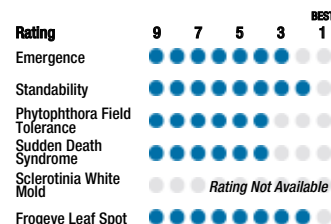


GH3927LG BRAND

RM: 3.9

CONSISTENT YIELDS AT ANY YIELD LEVEL

- Great standability for easy harvest
- Performs well on variable soils
- Superb tolerance to Frogeye Leaf Spot



“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

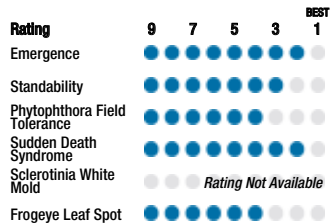
Head, Golden Harvest East Commercial Unit

GH3934X BRAND

RM: 3.9

PROVEN GENETICS DELIVER OUTSTANDING YIELD POTENTIAL AND SDS TOLERANCE

- Stable performance with top-end yield kick
- Performs well on heavy, poorly drained soils
- Top performance in all yield environments

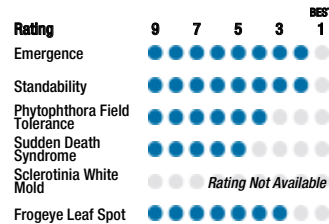


GH4155E3 BRAND

RM: 4.1

TOP PERFORMANCE ON THE TOUGH ACRE

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

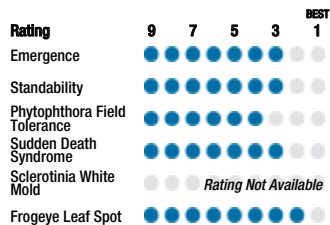


GH4201E3 BRAND

NEW // RM: 4.2

GREAT YIELD POTENTIAL WITH STRONG AGRONOMICS

- Performs well North and South of zone
- Solid tolerance to SDS
- Maintains performance across all yield levels

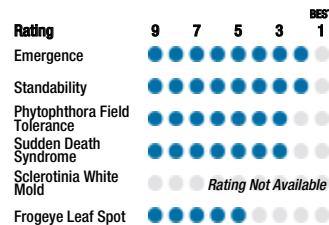


GH4240XS BRAND

RM: 4.2

CONSISTENT PERFORMANCE ON ANY ACRE

- Stability with STS herbicide tolerance
- Proven tolerance to SDS and Phytophthora Root Rot
- Adapted to both dryland and irrigated acres



“E-LUMINATE PROVIDES A STRUCTURED DIGITAL EXPERIENCE FOR GOLDEN HARVEST CUSTOMERS. YOUR SEED ADVISOR WILL PROVIDE A GAME PLAN FOR EVERY FIELD USING DATA, SCIENCE, AND LOCAL AGRONOMY THAT IS TAILORED TO YOUR SPECIFIC NEEDS.”



Justin Welch

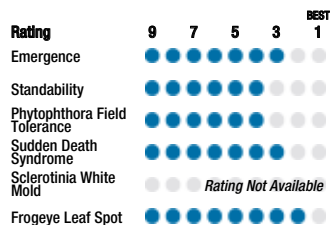
Head, Digital US Seeds

GH4307X BRAND

RM: 4.3

EXCEPTIONAL YIELD POTENTIAL WITH PROVEN AGRONOMICS

- Strongest on heavy- to medium-textured soils
- Excellent performance on both dryland and irrigated acres
- Outstanding Frogeye Leaf Spot tolerance with very good SDS tolerance

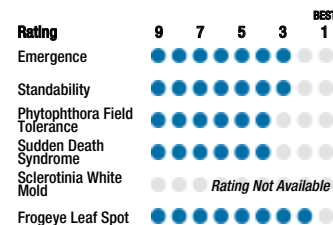


GH4314E3 BRAND

RM: 4.3

GOOD COMBINATION OF OFFENSE AND DEFENSE

- Well suited for variable soils
- Excellent Frogeye Leaf Spot tolerance
- Performs across all soil types

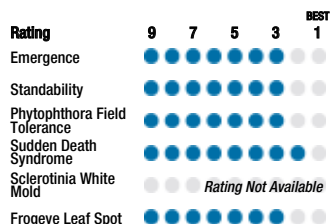


GH4474E3 BRAND

NEW // RM: 4.4

BROADLY ADAPTED WITH TOP-END YIELD POTENTIAL

- Excellent tolerance to SDS
- Strong yields North and South of zone
- Solid Frogeye Leaf Spot tolerance

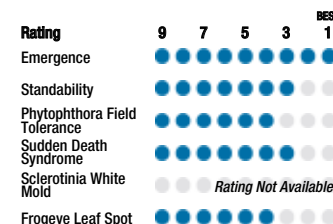


GH4612E3S BRAND

RM: 4.6

TOP PERFORMANCE WITH STS TOLERANCE AND CHLORIDE EXCLUDER

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



“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

HELPING CROPS REALIZE FULL POTENTIAL

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

GOLDEN HARVEST PREFERRED SEED TREATMENTS

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

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

POWERED BY CRUISERMAXX VIBRANCE

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

ENHANCED WITH SALTRO[®]

- 4+ bushels per acre (bu/A) yield improvement over ILEVO[®] under SDS pressure
- Higher intrinsic activity than older technology to protect against the cause of SDS
- Robust activity against soybean cyst, root knot, reniform, lesion and lance nematodes
- Superior protection from SDS without signs of plant stress, including phytotoxicity, stunting, reduced plant stands, susceptibility to pests or weather, and reduced plant growth above and below ground

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.

SEED CARE

 **CruiserMaxx[®] Vibrance[®]**

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

 **Avicta[®] Complete**
Corn 500

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

 **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.

HERBICIDES

 **Acuron[®]**

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

 **Tavium[®]**

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

FUNGICIDES

 **Miravis[®] Neo**

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

INSECTICIDES

 **Force[®] 6.5G**

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

 **Besiege[®]**

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



DATA INSIGHTS DRIVE INFORMED DECISION-MAKING.

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



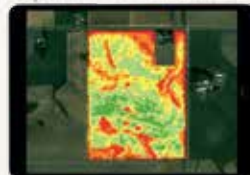
GaMePLaN

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



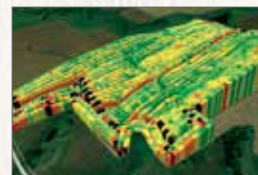
RangeFinder

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



E-Luminate Mobile

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



Decision Hub

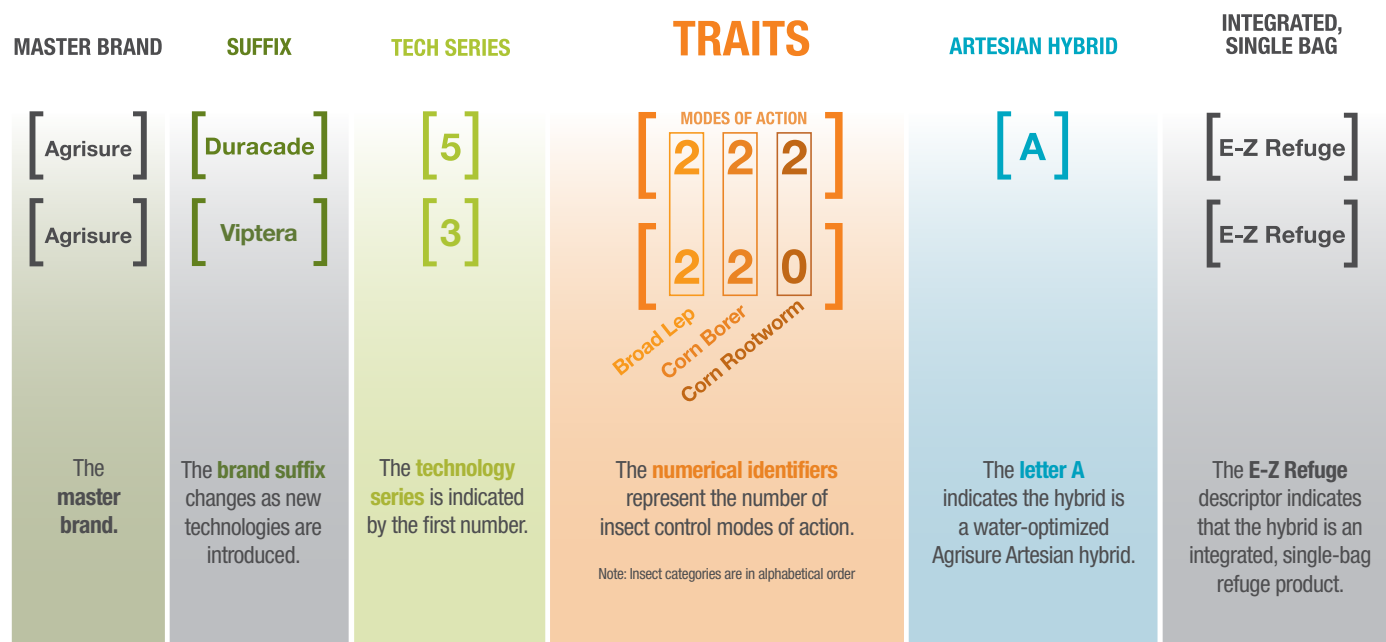
- Weather data
- Predictive analytics
- Seasonal review
- Monitor data importation–yield, as applied

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

GOLDEN HARVEST CORN

This two-digit number is the same as the last two digits of relative maturity.

The next letter and two-digit number are designated to uniquely identify each genetic family.

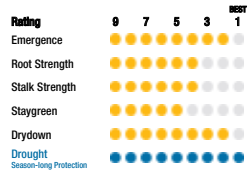
RM: Specific relative maturity for this hybrid series.

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

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**

Agrisure Artesian

"A" indicates the presence of Agrisure Artesian technology for water optimization in the hybrid.

E-Z Refuge: Products include integrated in-bag 5% refuge.

The dash separates the genetic and trait portions.

The trait designator aligns with the Agrisure traits nomenclature system.

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

Trait versions available in this hybrid series.

ENOGEN CORN

Relative maturity number

Randomly designated letter and number(s)

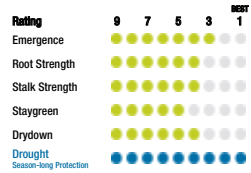
RM: Specific relative maturity for this hybrid series.

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

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

Agrisure Artesian

"A" indicates the presence of Agrisure Artesian technology for water optimization in the hybrid.

E-Z Refuge: Products include integrated in-bag 5% refuge.

The dash separates the genetic and trait portions.

The trait designator aligns with the Agrisure traits nomenclature system.

Trait versions available in this hybrid series.

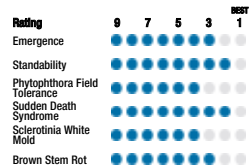
GOLDEN HARVEST SOYBEANS

Soybean Brand

GH2788X BRAND **RM: 2.7**

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



RM: 2.7: Specific relative maturity for this variety.

Herbicide tolerance and other traits

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

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
 Agrisure 3000GT  Agrisure Artesian 3011A	20%	50%
 Agrisure Viptera 3110  Agrisure Viptera 3111	20%	
 Agrisure Viptera 3220 E-Z Refuge  Agrisure Viptera 3330 E-Z Refuge  Agrisure 3120 E-Z Refuge  Agrisure 3122 E-Z Refuge  Agrisure Duracade 5122 E-Z Refuge  Agrisure Duracade 5222 E-Z 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.

CORN CROP PLANNING

Field Name: _____

Field Name: _____

Hybrid: _____

Hybrid: _____

Population: _____

Population: _____

Management Considerations: _____

Management Considerations: _____

SOYBEAN CROP PLANNING

Field Name: _____

Field Name: _____

Variety: _____

Variety: _____

Population: _____

Population: _____

Management Considerations: _____

Management Considerations: _____

CORN CROP PLANNING

Field Name: _____

Hybrid: _____

Population: _____

Management Considerations: _____

Field Name: _____

Hybrid: _____

Population: _____

Management Considerations: _____

SOYBEAN CROP PLANNING

Field Name: _____

Variety: _____

Population: _____

Management Considerations: _____

Field Name: _____

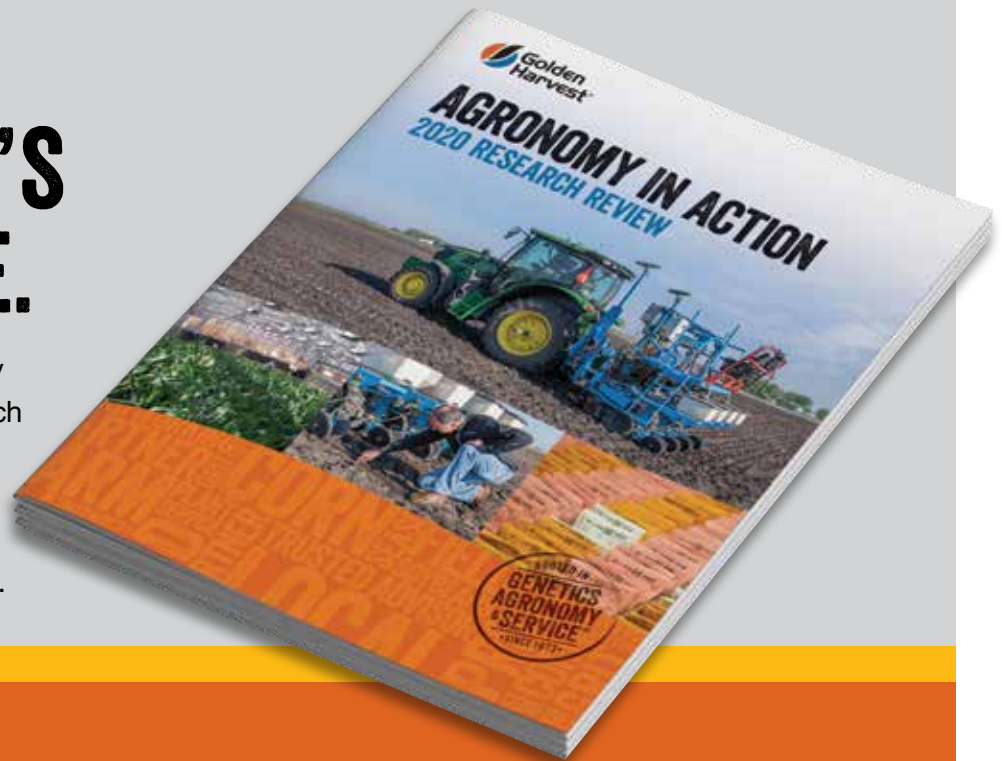
Variety: _____

Population: _____

Management Considerations: _____

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 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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