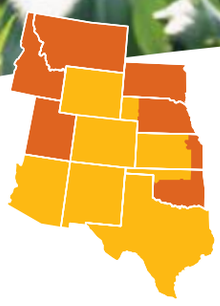
ROOTED IN
GENETICS
AGRONOMY
& SERVICE℠
•SINCE 1973•

2021 SEED GUIDE



HIGH PLAINS | SOUTHWEST

Golden Harvest®

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CORN

SOYBEANS

CROP PROTECTION

E-LUMINATE

RESOURCES

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®

PRIORITIZING FARMER NEEDS IN EVERYTHING WE DO.

GENETICS, AGRONOMY AND SERVICE THAT NEVER QUITS.

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

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.

[1]Farmers' 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]

[1]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.

AgrisureDuracade®

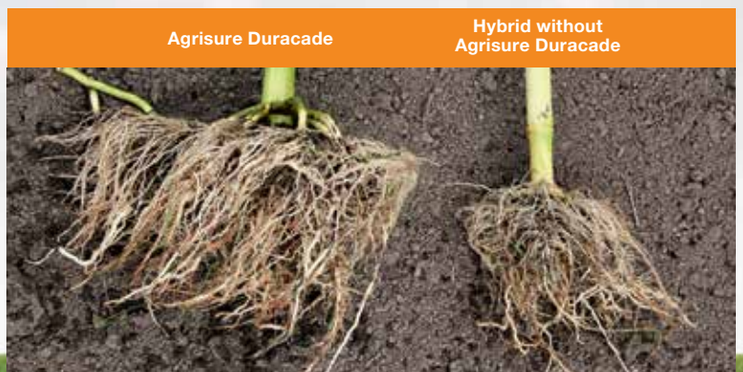
- Features a unique mode of action for strong control of corn rootworm
- Protects root systems for better nutrient and water uptake, helps ensure fuller leaves for increased photosynthesis and maximum grain fill, and results in strong plants that stand all season long
- Provides a new trait rotational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

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 ear-feeding insects
- Delivers a 7.3 bu/A yield advantage under ear-feeding insect pressure**

AgrisureArtesian®

- 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 [2]



*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 assevere 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 3111	Agrisure Viptera 3110	Agrisure GT / Agrisure GT/LL	Conventional
G91V51					3110A		
G90Y04	5222A		3220A			GTA/LL	
G95D32			3220			GT/LL	
G95M41	5122						
G96R61 NEW	5222 NEW						
G97N86	5222		3220				
G98L17	5122						
G99E68 NEW	5122 NEW						
G00H12	5122					GT/LL NEW	
G01P52 NEW		3122A				GTA/LL	
G02K39	5122		3120				
G03R40	5222						
G04G36 NEW				3111A NEW			
G04S19		3122					
G07F23				3111		GT	Conv.
G07V88				3000GT			
G08D29	5122A		3120A				
G07B39				3111A			
G09Y24	5222A		3220A				
G10C45	5122						
G10K03			3220				
G10L16	5222A		3330A, 3220A NEW				Conv.-A NEW
G10Z64			3220				
G11B63			3120A			GTA/LL	
G11F16				3111A			
G11V76 NEW	5122 NEW		3120 NEW				
G12S75 NEW	5122 NEW						
G12U17	5122		3120				
G13E90				3111			
G13H15	5122		3120				
G13N18				3111			
G13T41	5122		3120				
G13Z50	5222		3220				
G14K50			3220				
G14N11	5222						
G15J91 NEW			3220 NEW				
G15L32	5222 NEW		3330	3000GT			
G16K01				3111		GT	
G18D87				3111		GT	
G18H82				3111			

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	Blunt Ear	Plant Height	Ear Height	Root Type	Leaf Type	Ear Flex	Husk Cover	Cob Color	Gray Leaf Spot	Northern Corn Leaf Blight	Goss's Wilt	Bacterial Leaf Streak	Southern Corn Leaf Blight	Eyespot	Anthracnose Stalk Rot	Fusarium Crown Rot	Common Rust	Southern Rust	Golden Harvest Hybrid Series
91	1240	2300	3	3	5	4	1	2	4	3	3	6	3	4	M	U	SF	M	R	-	3	4	-	-	3	-	5	-	-	G91V51
92	1265	2325	2	3	4	2	1	3	3	3	2	3	2	2	F	P	SF	M	R	-	3	4	3	-	3	3	3	-	-	G90Y04
95	1280	2400	3	3	3	2	2	5	2	3	2	1	3	4	F	S-U	F	M	R	4	5	3	4	-	2	3	3	4	-	G95D32
95	1245	2365	3	3	2	3	3	2	3	3	3	-	3	4	M	U	SD	M	R	-	4	5	4	-	3	4	4	-	-	G95M41
96	1275	2400	2	2	3	2	2	2	3	3	2	-	2	2	F	U	SF	M	R	-	2	4	5	-	3	3	2	-	-	G96R61 NEW
97	1275	2400	2	2	4	2	3	3	3	3	3	5	3	2	M	U	SD	L	R	4	4	4	3	-	3	-	3	-	-	G97N86
98	1295	2410	2	3	4	4	3	3	3	3	4	8	2	2	M	P	SF	M	R	5	5	6	4	-	5	3	4	-	-	G98L17
99	1300	2445	3	2	2	3	3	4	2	3	3	-	3	3	M	S-U	SF	M	R	2	2	5	5	-	3	3	4	-	-	G99E68 NEW
100	1315	2420	3	3	2	3	2	2	4	3	3	-	5	5	M	S-U	SD	M	R	3	5	5	3	-	3	-	4	-	-	G00H12
101	1335	2460	2	2	4	2	1	3	2	4	3	1	2	3	P	U	SF	M	Pi	4	5	3	3	-	3	3	2	-	-	G01P52
102	1305	2475	3	3	2	2	2	2	1	3	5	-	5	5	M	U	F	M	R	3	4	3	5	-	3	-	2	-	-	G02K39
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	-	2	-	3	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	5	-	5	G04G36 NEW
104	1385	2570	4	3	4	3	3	3	4	3	5	-	2	2	M	S-U	SF	M	Pi	4	4	3	4	4	2	2	4	-	-	G04S19
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	5	6	G07F23
107	1375	2570	3	3	5	3	2	3	5	2	5	-	3	3	F	U	SF	M	Pi	5	3	3	4	3	5	4	5	4	-	G07V88
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	5	G08D29
109	1375	2570	4	2	5	4	1	4	4	5	4	-	3	4	M	P	SF	M	Pi	5	4	4	5	5	3	4	4	-	6	G07B39
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	-	5	-	5	G09Y24
110	1405	2570	4	3	2	2	3	5	4	3	3	-	3	3	M	S-U	SF	M	R	3	3	2	3	4	3	-	5	4	6	G10C45
110	1440	2625	3	4	4	4	3	2	2	2	5	-	3	3	M	S-U	F	M	R	5	3	4	4	5	-	-	3	-	-	G10K03
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	4	G10L16
110	1415	2575	5	3	3	4	2	3	3	4	4	-	2	4	M	S-U	F	M	W	4	5	6	-	4	-	3	-	4	-	G10Z64
111	1425	2570	4	4	3	4	1	3	2	3	3	-	3	3	F	U	F	L	Pi	4	4	3	3	5	3	-	6	-	5	G11B63
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	-	3	4	4	G11F16
111	1430	2600	3	3	3	4	2	3	4	3	2	-	4	6	F	U	SF	L	Pi	4	3	6	3	6	-	3	3	7	4	G11V76 NEW
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	3	7	4	G12S75 NEW
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
113	1405	2630	3	3	4	4	2	5	3	3	4	-	3	3	F	S-U	F	M	Pi	6	3	3	-	3	-	-	4	-	-	G13E90
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	1415	2630	3	4	5	4	3	4	5	3	6	-	4	5	F	S-U	F	M	W	6	4	4	5	2	6	4	4	3	6	G13N18
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	4	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	5	G13Z50
114	1455	2640	4	4	5	2	2	4	3	3	6	-	4	4	F	P	F	L	Pi	6	3	2	-	3	5	4	4	-	-	G14K50
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	5	G14N11
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	4	7	4	G15J91 NEW
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	5	G15L32
116	1465	2690	4	3	5	3	2	3	3	2	4	-	4	4	M	P	F	M	Pi	5	4	3	4	3	5	3	4	6	5	G16K01
118	1480	2700	4	4	4	3	3	3	2	3	2	-	2	3	M	S-U	SF	L	R	3	3	4	3	3	5	-	4	3	3	G18D87
118	1495	2690	4	4	4	3	4	5	5	3	3	-	2	3	M	S-U	SF	M	W	6	7	5	-	5	-	3	-	-	-	G18H82

Rating Scale
1 = B
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

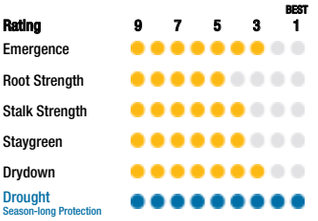
Disease Tolerance
1 = High
9 = Low
- = Not available

Drought
Agrisure Artesian water-optimized hybrid.

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

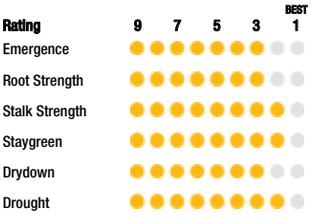


G91V51-3110A Brand

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

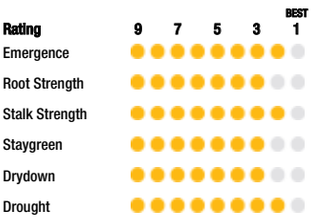


G95D32-3220 E-Z Refuge Brand
G95D32-GT/LL Brand
E095D3-5122 E-Z Refuge Brand

G96R61 — NEW // RM: 96

OUTSTANDING ROOTS AND STALKS FOR SEASON-LONG STANDABILITY

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

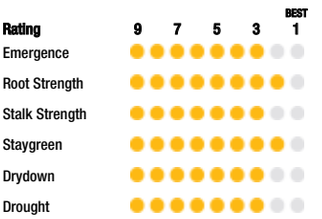


G96R61-5222 E-Z Refuge Brand NEW

G99E68 — NEW // RM: 99

TOP-END YIELD POTENTIAL WITH OUTSTANDING ROOTS AND STALKS

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

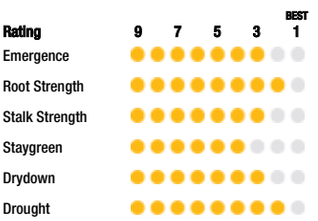


G99E68-5122 E-Z Refuge Brand NEW

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

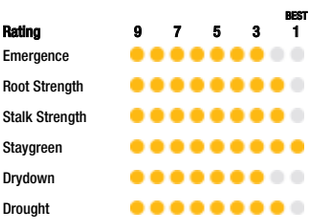


G00H12-5122 E-Z Refuge Brand
G00H12-GT/LL Brand NEW
E100H1-5122 E-Z Refuge Brand

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

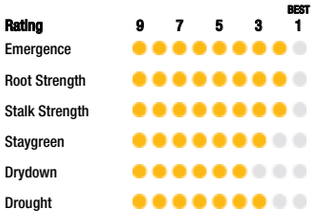


G02K39-5122 E-Z Refuge Brand
G02K39-3120 E-Z Refuge Brand

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

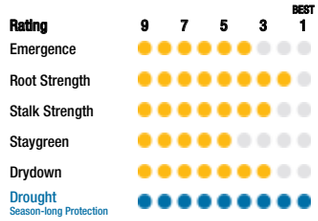


G03R40-5222 E-Z Refuge Brand

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

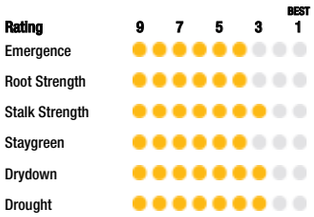


G04G36-3111A Brand NEW

G04S19 — RM: 104

EXCITING DUAL-PURPOSE HYBRID

- Adapted to most soil types
- Excellent late-season stalks
- Performs well under a wide range of populations

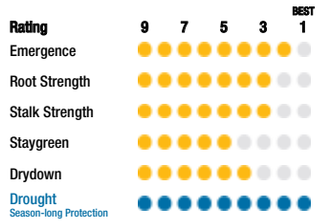


G04S19-3122 E-Z Refuge Brand

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

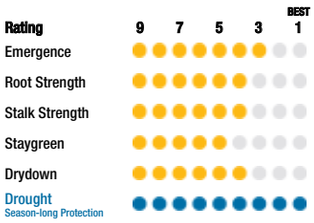


G08D29-5122A E-Z Refuge Brand
G08D29-3120A E-Z Refuge Brand

G09Y24 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

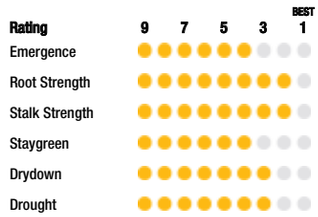


G09Y24-5222A E-Z Refuge Brand
G09Y24-3220A E-Z Refuge Brand
E109Y2-5122A E-Z Refuge Brand

G10C45 — RM: 110

INDUSTRY-LEADING YIELD ACROSS ALL ACRES

- Maximizes yield when it rains; increases yield when it doesn't
- Moderate plant structure for residue management
- Excellent drydown for early harvest options

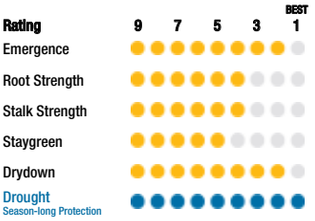


G10C45-5122 E-Z Refuge Brand

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

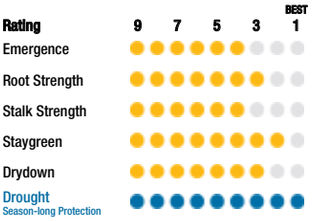


G10L16-5222A E-Z Refuge Brand
G10L16-3330A E-Z Refuge Brand
G10L16-3220A E-Z Refuge Brand *NEW*
G10L16-A Brand (Conv.) *NEW*

G11B63 Artesian — RM: 111

PROVIDES EXCELLENT EAR FLEX AND AGRISURE ARTESIAN TECHNOLOGY

- Maximizes yield when it rains; increases yield when it doesn't
- Consistent yield performance across environments
- Dependable stalk and root strength

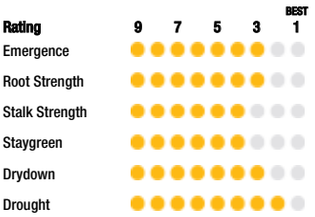


G11B63-3120A E-Z Refuge Brand
G11B63-GTA/LL Brand
E111C6-5122A E-Z Refuge Brand

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

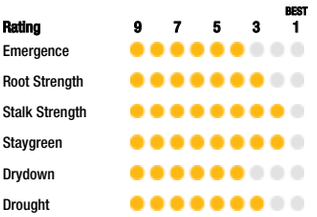


G11V76-5122 E-Z Refuge Brand *NEW*
G11V76-3120 E-Z Refuge Brand *NEW*

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

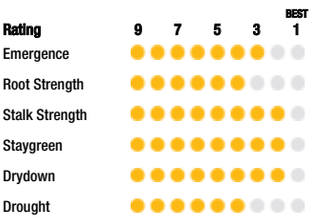


G12S75-5122 E-Z Refuge Brand *NEW*

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

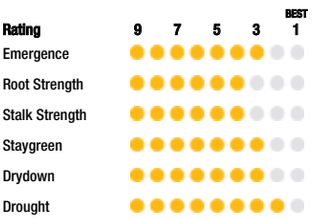


G12U17-5122 E-Z Refuge Brand
G12U17-3120 E-Z Refuge Brand

G13E90 — RM: 113

OUTSTANDING TOP-END YIELD POTENTIAL

- Ear flex and good drought tolerance enhance adaptability over a wide range of growing conditions
- Excellent high pH tolerance
- Responds extremely well to fungicide application

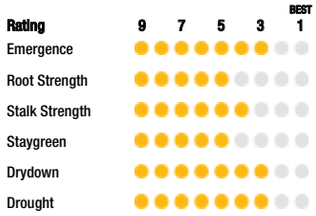


G13E90-3111 Brand
E113D3-3000GT Brand

G13N18 — RM: 113

EXCELLENT TOLERANCE TO HEAT AND MOISTURE STRESS WITH WESTERN ADAPTATION

- Excels in high-management acres of the Western Corn Belt
- Solid performance in drought-prone and variable soil types
- Rapid drydown contributes to ease of harvest

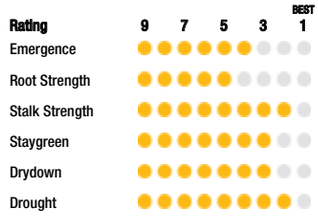


G13N18-3111 Brand
E113N8-3000GT Brand

G14K50 — RM: 114

SUPERIOR STRESS TOLERANCE AND BROAD ADAPTABILITY FOR SOUTHERN ENVIRONMENTS

- Solid agronomics even under southern disease pressures
- Strong stalks for normal to extended harvest dates
- Flex ear type allows population adjustments as needed by environment

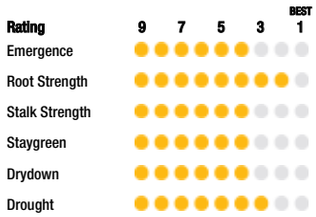


G14K50-3220 E-Z Refuge Brand

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

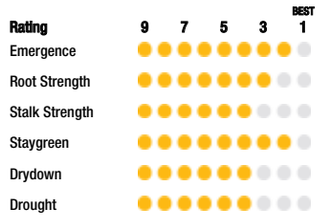


G15J91-3220 E-Z Refuge Brand NEW

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

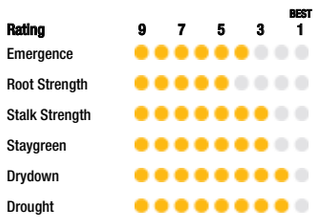


G15L32-5222 E-Z Refuge Brand NEW
G15L32-3330 E-Z Refuge Brand
G15L32-3000GT Brand

G16K01 — RM: 116

BROADLY ADAPTED PRODUCT WITH SUPERIOR YIELD POTENTIAL

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

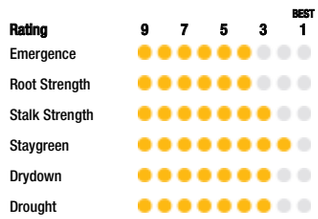


G16K01-3111 Brand
G16K01-GT Brand
E116K4-3000GT Brand

G18D87 — 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



G18D87-3111 Brand
G18D87-GT Brand
E118D8-3000GT Brand

CORN AGRONOMIC MANAGEMENT

PRODUCT		AGRONOMIC MANAGEMENT AND PLACEMENT TRAITS													END-USE TRAITS			
		Seeding Rate % Adjustment							Adaptation to Soil Types/ Yield Environments									
Golden Harvest Hybrid Series	Relative Maturity (RM)	-20%	-10%	0%	+10%	+20%	Root Strength	Stalk Strength	Corn-on-Corn	Drought Prone	High pH	Highly Productive	Variable	Poorly Drained	Starch	Protein	Oil	Feed to Gain
G91V51	91	G	G	B	G	G	5	4	F	B	P	B	B	G	G	F	G	B
G90Y04	92	G	B	B	B	G	4	2	B	B	G	B	B	G	B	G	F	G
G95D32	95	G	B	B	G	G	3	2	G	B	G	B	B	B	B	F	F	G
G95M41	95	G	G	B	G	G	2	3	F	F	G	B	G	G	B	F	F	G
G96R61 NEW	96	G	G	B	G	G	3	2	G	B	F	G	G	B	G	B	P	F
G97N86	97	G	G	B	B	G	4	2	G	P	G	B	F	G	G	B	F	G
G98L17	98	F	G	B	G	G	4	4	B	G	B	B	B	G	B	G	F	B
G99E68 NEW	99	G	G	B	G	G	2	3	G	G	G	B	G	B	-	B	B	F
G00H12	100	G	G	B	B	G	2	3	G	G	B	B	G	G	F	G	G	F
G01P52	101	F	G	B	B	B	4	2	G	B	G	B	B	G	G	B	F	B
G02K39	102	F	G	B	B	G	2	2	B	B	F	B	B	B	F	G	G	B
G03R40	103	F	G	B	B	G	2	2	B	G	G	B	G	B	F	G	G	F
G04G36 NEW	104	G	G	B	G	G	2	3	F	B	F	G	G	G	-	F	F	B
G04S19	104	B	B	B	G	F	4	3	G	G	P	G	B	F	B	F	F	B
G07F23	107	G	G	B	G	G	3	2	G	B	P	B	B	G	G	F	B	B
G07V88	107	G	B	B	G	F	5	3	G	B	F	B	B	P	B	G	B	-
G08D29	108	G	G	B	G	G	3	3	B	B	F	B	B	G	F	G	B	G
G07B39	109	G	B	B	G	G	5	4	G	B	F	G	B	F	G	F	B	G
G09Y24	109	G	B	B	G	F	4	4	F	B	P	B	B	G	F	G	B	F
G10C45	110	G	B	B	G	G	2	2	G	G	B	B	G	F	G	G	F	G
G10K03	110	G	B	B	G	G	4	4	G	G	G	B	G	F	G	F	B	G
G10L16	110	G	G	B	G	G	4	4	B	B	F	B	G	G	B	F	F	G
G10Z64	110	G	G	B	G	G	3	4	G	B	B	G	B	F	F	F	G	-
G11B63	111	G	B	B	G	G	3	4	G	B	G	G	F	P	B	G	F	B
G11F16	111	G	G	B	B	G	2	2	G	B	P	B	B	G	G	F	G	G
G11V76 NEW	111	G	G	B	G	G	3	4	G	G	G	G	G	G	-	B	G	G
G12S75 NEW	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
G13E90	113	G	G	B	G	G	4	4	B	B	G	B	B	F	G	F	F	G
G13H15	113	F	G	B	G	F	3	2	G	G	F	B	B	B	F	G	G	G
G13N18	113	G	B	B	G	F	5	4	B	G	G	B	G	F	F	G	F	B
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
G14K50	114	F	G	B	G	G	5	2	G	B	F	B	B	F	G	F	G	-
G14N11	114	G	B	B	G	F	2	4	B	G	G	B	G	B	B	B	F	B
G15J91 NEW	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
G16K01	116	F	G	B	B	G	5	3	G	B	P	B	B	F	F	F	G	G
G18D87	118	F	G	G	B	B	4	3	B	G	G	B	G	G	G	B	F	P
G18H82	118	F	G	B	B	G	4	3	G	G	G	B	G	F	B	G	F	-

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

Score Interpretation
B = B
G = G
F = F
P = P
- = 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 located at the bottom of the previous page, 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

"GOLDEN HARVEST IS FOCUSED ON PROVIDING THE BEST POSSIBLE CUSTOMER EXPERIENCE. WE ARE CONTINUALLY INVESTING IN INCREASED OFFERINGS, TECHNOLOGY AND OUR ENTIRE SERVICE TEAM TO ENSURE THAT WE WILL DELIVER ON THAT PROMISE NOW AND IN THE FUTURE."

Clayton Becker

Head, Golden Harvest West Commercial Unit

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)*
G91V51	91	3	5	1	4	3	4	-	4	B	G	G	G	G	-	G	-	B	B	B	B
G90Y04	92	2	4	1	3	2	2	-	4	B	B	F	G	G	B	G	G	G	B	G	B
G95D32	95	3	3	2	2	3	4	4	3	B	F	G	G	B	B	G	G	B	B	B	B
G95M41	95	3	2	3	3	3	4	-	5	F	F	G	F	B	-	F	-	F	F	F	F
G97N86	97	2	4	3	3	3	2	4	4	B	B	G	F	G	B	G	G	B	B	B	B
G98L17	98	2	4	3	3	2	2	5	6	B	G	F	F	G	F	G	G	G	B	G	B
G00H12	100	3	2	2	4	5	5	3	5	B	B	F	F	G	B	F	F	F	G	F	G
G01P52	101	2	4	1	2	2	3	4	3	G	G	B	G	G	F	G	G	G	G	G	G
G02K39	102	3	2	2	1	5	5	3	3	B	G	G	G	B	B	B	B	B	B	B	B
G03R40	103	2	2	3	3	4	4	4	3	F	B	P	F	P	B	F	F	F	F	F	F
G04S19	104	4	4	3	4	2	2	4	3	B	G	G	G	G	G	G	B	G	B	G	B
G07F23	107	3	3	2	4	5	5	3	4	B	G	G	G	G	G	B	B	B	B	B	B
G07V88	107	3	5	2	5	3	3	5	3	G	F	G	G	B	G	G	B	B	B	B	G
G08D29	108	2	3	1	5	4	5	4	3	G	G	F	G	G	B	G	G	G	F	G	F
G07B39	109	4	5	1	4	3	4	5	4	B	G	B	B	G	B	B	B	B	B	B	B
G09Y24	109	3	4	1	5	5	3	5	4	G	G	G	B	G	G	B	B	B	G	B	G
G10C45	110	4	2	3	4	3	3	3	2	G	G	G	G	B	B	B	B	B	G	B	G
G10K03	110	3	4	3	2	3	3	5	4	F	G	G	G	G	B	G	G	G	F	G	F
G10L16	110	2	4	1	5	5	6	4	3	F	G	B	G	B	B	G	G	G	F	G	F
G10Z64	110	5	3	2	3	2	4	4	6	F	F	G	G	G	G	G	G	G	F	G	F
G11B63	111	4	3	1	2	3	3	4	3	B	G	G	G	G	F	F	G	F	B	F	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
G13E90	113	3	4	2	3	3	3	6	3	G	B	G	G	F	G	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
G13N18	113	3	5	3	5	4	5	6	4	F	G	G	G	G	F	B	B	B	G	B	F
G13Z50	113	2	2	3	3	4	4	4	3	F	F	G	G	G	F	G	G	G	F	G	F
G14K50	114	4	5	2	3	4	4	6	2	B	F	B	G	B	B	G	B	G	B	G	B
G14N11	114	2	2	3	3	3	2	5	5	B	F	B	G	B	G	G	G	G	B	G	B
G15L32	115	2	3	4	2	4	5	3	4	B	G	G	G	B	G	G	G	G	G	G	G
G16K01	116	4	5	2	3	4	4	5	3	G	F	G	G	G	G	B	B	B	G	B	G
G18D87	118	4	4	3	2	2	3	3	4	B	B	G	B	G	G	B	B	B	B	B	B
G18H82	118	4	4	4	5	2	3	6	5	F	G	B	B	B	G	G	G	G	G	G	G

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

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

Plant Height
1 = Tall
9 = Short

Ear Height
1 = High
9 = Low

Ratings Key
B = B
G = G
F = F
P = P
- = Not available

Drought:
Agrisure Artesian water-optimized hybrid.

*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

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

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

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

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

Starch: Indicates the percent content of feed component.

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

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

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

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

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

CORN WITH MORE PROFIT POTENTIAL

INCREASE YOUR PROSPECTIVE 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.

Enogen®

ADDED VALUE IN BEEF AND DAIRY

- Enogen Feed corn hybrids in livestock production has been shown to increase feed efficiency by an average of 5% in stocker and finishing cattle, according to feeding trials at the University of Nebraska-Lincoln (UNL) and Kansas State University (KSU)[1]
- Enogen 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[2]

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

[1]University of Nebraska-Lincoln Research Studies, 2013-2017; Kansas State University Research Study, 2017.
[2]Syngenta production data 2012-2017

ENOGEN HYBRID CHARACTERISTICS

PRODUCT	TRAIT OFFERS*		MATURITY INFORMATION			AGRONOMIC CHARACTERISTICS										PLANT CHARACTERISTICS							DISEASE TOLERANCE									
Enogen Hybrid Series	Above/Below Ground Insect Protection **E-Z Refuge** Agrisure Duracade	Above/Below Ground Insect Protection Agrisure 3000GT	Relative Maturity (RM)	GDUs to Silk	GDUs to Black Layer	Emergence	Seedling Vigor	Root Strength	Stalk Strength	Drought	Green Snap	Staygreen	Drydown	Test Weight	Blunt Ear	Plant Height	Ear Height	Root Type	Leaf Type	Ear Flex	Husk Cover	Cob Color	Gray Leaf Spot	Northern Corn Leaf Blight	Goss's Wilt	Bacterial Leaf Streak	Southern Corn Leaf Blight	Eyespot	Anthracnose Stalk Rot	Fusarium Crown Rot	Common Rust	Southern Rust
E095D3	5122		95	1280	2400	3	3	3	2	2	5	2	3	2	1	3	4	F	S-U	F	M	R	4	5	3	4	-	2	3	3	4	-
E100H1	5122		100	1315	2420	3	3	2	3	2	2	4	3	3	-	5	5	M	S-U	SD	M	R	3	5	5	3	-	3	-	4	-	-
E101P5		3011A	101	1335	2460	2	2	4	2	1	3	2	4	3	1	2	3	P	U	SF	M	Pi	4	5	3	3	-	3	3	2	-	-
E105T1		3000GT	105	1355	2550	2	2	5	2	2	4	2	3	4	2	2	3	M	U	SF	M	Pi	4	5	3	4	4	4	2	2	3	-
E107B3		3011A	109	1375	2570	4	2	5	4	1	4	4	5	4	-	3	4	M	P	SF	M	Pi	5	4	4	5	5	3	4	4	-	6
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	-	5	-	5
E111C6	5122A		111	1425	2570	4	4	3	4	1	3	2	3	3	-	3	3	F	U	F	L	Pi	4	4	3	3	5	3	-	6	-	5
E113D3		3000GT	113	1405	2630	3	3	4	4	2	5	3	3	4	-	3	3	F	S-U	F	M	Pi	6	3	3	-	3	-	-	4	-	-
E113N8		3000GT	113	1415	2630	3	4	5	4	3	4	5	3	6	-	4	5	F	S-U	F	M	W	6	4	4	5	2	6	4	4	3	6
E113Z5	5122		113	1435	2650	2	2	2	4	3	3	3	2	4	-	4	4	M	S-U	SD	M	R	4	3	3	3	4	4	-	4	7	5
E114H6	5122A		114	1455	2660	4	4	4	5	1	4	3	3	3	-	3	3	M	S-U	SF	M	R	3	2	3	-	5	4	5	5	2	4
E116K4		3000GT	116	1465	2690	4	3	5	3	2	3	3	2	4	-	4	4	M	P	F	M	Pi	5	4	3	4	3	5	3	4	6	5
E118D8		3000GT	118	1480	2700	4	4	4	3	3	3	2	3	2	-	2	3	M	S-U	SF	L	R	3	3	4	3	3	5	-	4	3	3
E118H2	5122		118	1495	2690	4	4	4	3	4	5	5	3	3	-	2	3	M	S-U	SF	M	W	6	7	5	-	5	-	3	-	-	-

Rating Scale
1 = B
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.

		HERBICIDE TOLERANCE	
	EVT TYPE	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

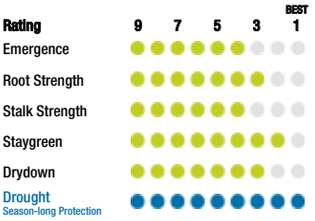
Important: Always read and follow label and bag tag instructions; only those labeled as tolerant to glufosinate may be sprayed with glufosinate ammonium-based herbicides.

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.

E111C6 Artesian — RM: 111

PROVIDES EXCELLENT EAR FLEX AND AGRISURE ARTESIAN TECHNOLOGY

- Maximizes yield when it rains; increases yield when it doesn't
- Consistent yield performance across environments
- Dependable stalk and root strength

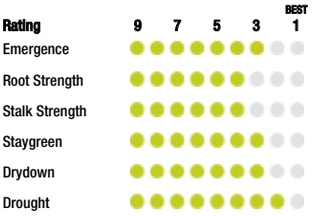


E111C6-5122A E-Z Refuge Brand

E113D3 — RM: 113

OUTSTANDING TOP-END YIELD POTENTIAL

- Ear flex and good drought tolerance enhance adaptability over a wide range of growing conditions
- Excellent high pH tolerance
- Responds extremely well to fungicide application

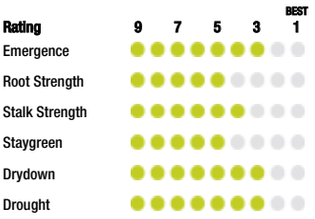


E113D3-3000GT Brand

E113N8 — RM: 113

EXCELLENT TOLERANCE TO HEAT AND MOISTURE STRESS WITH WESTERN ADAPTATION

- Excels in high-management acres of the Western Corn Belt
- Solid performance in drought-prone and variable soil types
- Rapid drydown contributes to ease of harvest

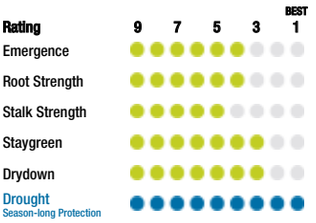


E113N8-3000GT Brand

E114H6 Artesian — RM: 114

OUTSTANDING YIELD POTENTIAL WITH AGRISURE ARTESIAN TECHNOLOGY

- Maximizes yield when it rains; increases yield when it doesn't
- Proven yield across multiple soil types and environments for stable performance
- Solid leaf disease package enhances broad adaptability

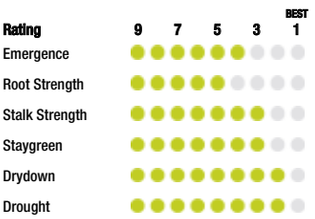


E114H6-5122A E-Z Refuge Brand

E116K4 — RM: 116

BROADLY ADAPTED PRODUCT WITH SUPERIOR YIELD POTENTIAL

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

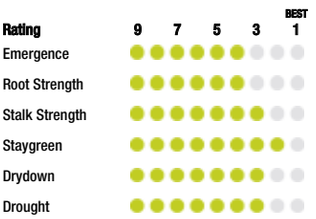


E116K4-3000GT Brand

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		
		Seeding Rate % Adjustment							Adaptation to Soil Types/Yield Environments								
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	Oil
E095D3	95	G	B	B	G	G	3	2	G	B	G	B	B	B	B	F	F
E100H1	100	G	G	B	B	G	2	3	G	G	B	B	G	G	F	G	G
E101P5	101	F	G	B	B	B	4	2	G	B	G	B	B	G	G	B	F
E105T1	105	F	G	B	B	B	5	2	G	B	G	B	B	B	B	F	F
E107B3	109	G	B	B	G	G	5	4	G	B	F	G	B	F	G	F	B
E109Y2	109	G	B	B	G	F	4	4	F	B	P	B	B	G	F	G	B
E111C6	111	G	B	B	G	G	3	4	G	B	G	G	F	P	B	G	F
E113D3	113	G	G	B	G	G	4	4	B	B	G	B	B	F	G	F	F
E113N8	113	G	B	B	G	F	5	4	B	G	G	B	G	F	F	G	F
E113Z5	113	G	G	B	B	B	2	4	G	G	G	B	B	B	G	G	F
E114H6	114	G	B	B	G	F	4	5	G	B	F	B	B	F	G	F	G
E116K4	116	F	G	B	B	G	5	3	G	B	P	B	B	F	F	F	G
E118D8	118	F	G	G	B	B	4	3	B	G	G	B	G	G	G	B	F
E118H2	118	F	G	B	B	G	4	3	G	G	G	B	G	F	B	G	F

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

Score Interpretation
B = B
G = G
F = F
P = P
- = 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 Trials[1]

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

[1]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

PRODUCT			AGRONOMIC/PLANT CHARACTERISTICS*												Adaptation to Soil Types/ Yield Environments					Herbicide Responses	
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	Chloride Sensitivity	Green Stem Rating	Drought Prone	High pH	Highly Productive	Variable	Poorly Drained	Sulfentrazone	Metribuzin
GH2041X	RR2X	2.0	3	M	M	2	1	2	WH	LTW	BR	BL	INC	3	G	G	B	B	F	B	B
GH2329X NEW	RR2X	2.3	2	MB	M	4	3	1	WH	LTW	BR	BL	INC	3	G	F	G	G	B	B	B
GH2552X	RR2X	2.5	3	MB	MT	3	2	1	WH	LTW	BR	BL	INC	2	G	G	G	B	B	B	B
GH2788X	RR2X	2.7	3	M	MS	2	1	1	PUR	GR	BR	IMB	INC	3	G	P	B	G	B	F	G
GH2818E3	E3	2.8	2	M	M	3	1	1	WH	GR	TN	BF	INC	2	B	F	B	B	G	G	B
GH2981X	RR2X	2.9	2	MB	M	3	1	1	PUR	LTW	BR	BL	INC	2	G	G	B	B	G	G	B
GH3088X	RR2X	3.0	2	MB	M	3	1	1	PUR	LTW	BR	BL	INC	3	G	G	B	G	B	B	B
GH3195X	RR2X	3.1	3	M	M	3	1	2	WH	LTW	BR	BL	INC	4	G	G	G	G	B	G	G
GH3347X NEW	RR2X	3.3	2	MT	T	3	1	1	PUR	LTW	TN	BL	INC	2	B	G	B	B	G	B	B
GH3380E3 NEW	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	INC	2	G	G	G	G	G	B	B
GH3475X	RR2X	3.4	3	MB	M	3	2	1	PUR	LTW	BR	BL	INC	3	G	F	B	G	B	B	G
GH3546X	RR2X	3.5	2	M	MT	3	1	1	PUR	LTW	BR	BL	INC	2	G	G	B	B	B	B	B
GH3582E3	E3	3.5	2	M	M	2	1	1	PUR	GR	TN	IMB	INC	2	B	P	B	G	G	B	B
GH3727LG	LL/GT27	3.7	2	M	M	3	3	1	PUR	LTW	BR	BR	INC	3	B	P	G	G	G	B	G
GH3728X	RR2X	3.7	2	M	M	2	1	1	PUR	GR	BR	IMB	INC	2	B	P	G	G	B	G	B
GH3759E3S	E3/STS	3.7	2	M	MT	2	1	1	WH	GR	BR	BF	INC	-	G	P	B	G	B	B	B
GH3918E3S NEW	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	INC	3	B	F	G	G	G	G	G
GH3927LG	LL/GT27	3.9	3	M	MT	2	2	1	WH	LTW	BR	BL	INC	-	G	F	F	B	G	B	B
GH3934X	RR2X	3.9	2	M	MT	3	2	2	PUR	GR	BR	IMB	INC	1	B	G	B	G	G	G	B
GH3982X	RR2X	3.9	2	MB	MT	3	1	1	PUR	LTW	TN	BL	INC	3	G	P	G	B	F	B	G
GH4155E3	E3	4.1	2	MB	MT	2	1	1	PUR	LTW	TN	BR	INC	2	G	G	G	F	G	G	G
GH4201E3 NEW	E3	4.2	3	M	M	3	1	1	WH	LTW	BR	BR	INC	-	-	-	-	-	-	-	G
GH4227LGS	LL/GT27/STS	4.2	2	M	MT	2	2	1	WH	LTW	BR	BL	INC	1	F	P	G	F	F	G	G
GH4240XS	RR2X/STS	4.2	2	M	MT	2	1	1	WH	GR	BR	BF	INC	3	G	P	B	B	B	F	B
GH4307X	RR2X	4.3	3	M	MT	4	3	1	PUR	LTW	TN	BL	INC	4	B	F	B	B	B	G	G
GH4474E3 NEW	E3	4.4	3	M	M	3	1	1	PUR	GR	TN	IMB	INC	-	-	-	-	-	-	-	G
GH4531XS	RR2X/STS	4.5	2	MB	MT	3	2	1	PUR	GR	BR	BF	INC	2	B	F	B	G	G	F	G
GH4612E3S	E3/STS	4.6	1	M	MT	3	3	1	PUR	GR	BR	IMB	EXC	2	B	P	G	B	G	G	B
GH4627LG NEW	LL/GT27	4.6	3	M	M	3	1	1	PUR	LTW	BR	BR	EXC	-	-	-	-	-	-	-	F
GH4823XS	RR2X/STS	4.8	2	MB	T	3	2	2	WH	LTW	BR	BR	EXC	3	G	P	G	G	G	F	G
GH4877E3S	E3/STS	4.8	2	B	T	4	3	1	WH	GR	BR	BF	INC	4	B	B	F	G	F	B	B
GH4917XS	RR2X/STS	4.9	2	MB	T	5	4	1	PUR	LTW	TN	BL	INC	4	G	P	F	G	B	F	G

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

Herbicide Tolerant Traits
RR2X = Roundup Ready 2 Xtend®
RR2X/STS = Roundup Ready 2 Xtend® and STS®
E3 = ENLIST E3®
E3/STS = ENLIST E3® and STS®
LL/GT27 = Liberty Link® and GT27™
LL/GT27/STS = Liberty Link®, GT27™ and STS®

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

Color Abbreviations
BF = Buff
BL = Black
BR = Brown
GR = Gray
IMB = Imperfect Black
IMY = Imperfect Yellow
LTW = Light Tawny
PUR = Purple
TN = Tan
TW = Tawny
WH = White
YEL = Yellow

Chloride Sensitivity
INC = Includer
EXC = Excluder

Adaptation to Soil Types/ Yield Environments
B = B
G = G
F = F
P = P
- = Not available

GRAIN QUALITY*		DISEASE/PEST*										PRODUCT
		Phytophthora Root Rot		Soybean Cyst Nematode								
% Protein @13% mst.	% Oil @13% mst.	Gene Resistance	Field Tolerance	Gene Source	Race Resistances	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
35.0	19.2	Rps1c	4	PI88788	R3, MR14	-	3	5	3	2	5	GH2041X
34.9	19.0	Rps1c	3	PI89772	MR1, MR3	-	4	-	4	2	4	GH2329X NEW
35.0	19.5	Rps1c	3	PI88788	MR3	-	3	-	5	3	3	GH2552X
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
33.7	19.9	Rps1c	4	PI88788	R3, MR14	-	3	3	4	2	2	GH3088X
34.7	19.2	Rps1c	4	PI88788	R3, MR14	-	3	5	3	3	4	GH3195X
33.7	19.4	S	3	PI88788	R3	-	3	3	5	3	2	GH3347X NEW
-	-	S	3	PI88788	-	1	3	-	5	4	4	GH3380E3 NEW
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
37.4	19.1	Rps3a	5	PI88788	MR3	1	5	-	-	-	3	GH3727LG
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 NEW
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
34.0	20.5	S	4	PI88788	R3, MR14	2	5	-	-	4	3	GH3982X
36.0	19.6	Rps3a	4	PI88788	MR3	-	3	4	-	5	3	GH4155E3
-	-	S	4	PI88788	-	1	-	-	-	3	2	GH4201E3 NEW
36.3	19.2	S	-	PI88788	MR3	1	5	-	-	5	3	GH4227LGS
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
-	-	Rps1a	3	PI88788	-	1	-	-	-	2	3	GH4474E3 NEW
35.8	19.7	S	4	PI88788	MR3, MR14	1	4	3	-	3	5	GH4531XS
36.6	19.8	S	4	PI88788	MR3	1	6	4	-	3	4	GH4612E3S
-	-	S	4	PI88788	-	1	-	-	-	3	3	GH4627LG NEW
35.9	20.1	Rps1c	3	PI88788	MR3	1	5	3	-	4	2	GH4823XS
36.5	20.8	S	-	S	S	1	2	3	-	4	3	GH4877E3S
35.6	20.5	Rps1k	3	PI88788	R3, MR14	1	5	-	-	5	3	GH4917XS

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 = B.

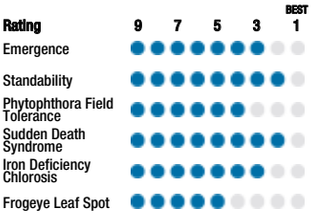
Soybean Cyst Nematode (SCN)
R = Resistant
MR = Moderately Resistant
S = Susceptible
1, 3 and/or 14 = Specific race of soybean cyst nematode

Disease/Pest Ratings
1 = B
9 = Worst
- = Not available

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

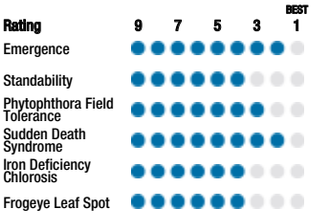


SCN SOLUTIONS. ROUNDUP READY 2 XTEND SOYBEANS

GH2329X BRAND — NEW // RM: 2.3

STRONG TOP-END YIELD KICK AND RELIABLE GENETICS

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

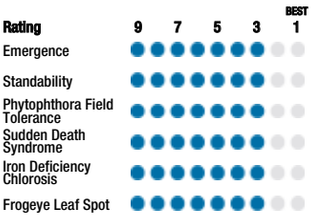


SCN SOLUTIONS. ROUNDUP READY 2 XTEND SOYBEANS

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

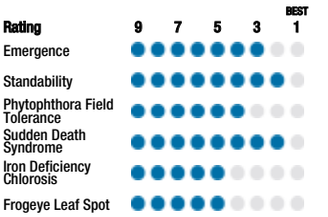


SCN SOLUTIONS. ROUNDUP READY 2 XTEND SOYBEANS

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

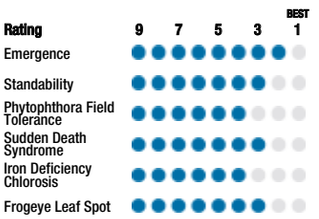


SCN SOLUTIONS. ROUNDUP READY 2 XTEND SOYBEANS

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

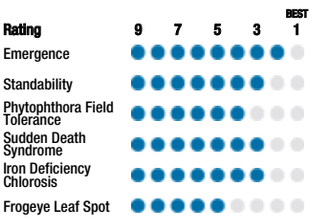


SCN SOLUTIONS. Enlist E3 SoyDenis

GH2981X BRAND — RM: 2.9

STABLE YIELD POTENTIAL AND SEASON-LONG STANDABILITY

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

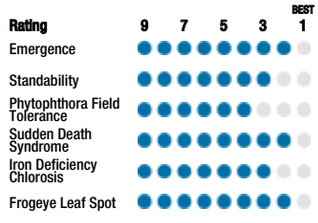


SCN SOLUTIONS. ROUNDUP READY 2 XTEND SOYBEANS

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

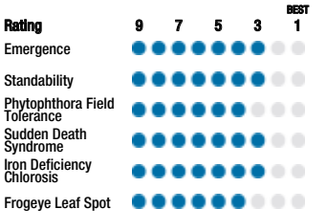


SCN SOLUTIONS. ROUNDUP READY 2 XTEND SOYBEANS

GH3195X BRAND — RM: 3.1

NICE COMBINATION OF OFFENSE AND DEFENSE

- Proven across varying soils; gives confidence for your farm
- Flexible across row spacing
- Versatility to take it north or south

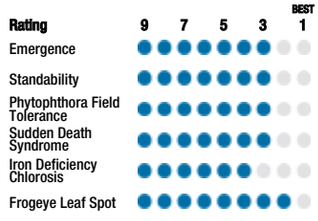


SCN SOLUTIONS. ROUNDUP READY 2 XTEND SOYBEANS

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

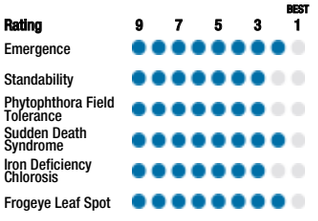


SCN SOLUTIONS. ROUNDUP READY 2 XTEND SOYBEANS

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

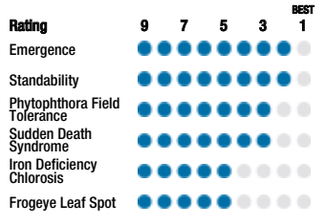


SCN SOLUTIONS. ROUNDUP READY 2 XTEND SOYBEANS

GH3582E3 BRAND — RM: 3.5

SUPERIOR PERFORMANCE ACROSS GEOGRAPHIES

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

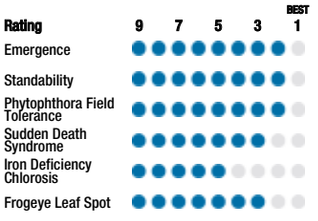


SCN SOLUTIONS. Enlist E3 Soybeans

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



SCN SOLUTIONS. ROUNDUP READY 2 XTEND SOYBEANS

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

Rating	9	7	5	3	BEST 1
Emergence	●	●	●	●	●
Standability	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	●	○
Sudden Death Syndrome	●	●	●	○	○
Iron Deficiency Chlorosis	●	●	○	○	○
Frogeye Leaf Spot	●	●	●	●	●

SCN SOLUTIONS. STS Enlist E3 Soybeans

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

Rating	9	7	5	3	BEST 1
Emergence	●	●	●	●	○
Standability	●	●	●	●	○
Phytophthora Field Tolerance	●	●	●	○	○
Sudden Death Syndrome	●	●	●	○	○
Iron Deficiency Chlorosis	●	●	●	○	○
Frogeye Leaf Spot	●	●	●	●	○

SCN SOLUTIONS. STS Enlist E3 Soybeans

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

Rating	9	7	5	3	BEST 1
Emergence	●	●	●	●	○
Standability	●	●	●	●	○
Phytophthora Field Tolerance	●	●	●	○	○
Sudden Death Syndrome	●	●	●	●	○
Iron Deficiency Chlorosis	●	●	●	○	○
Frogeye Leaf Spot	●	●	●	●	○

SCN SOLUTIONS. Enlist E3 Soybeans

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

Rating	9	7	5	3	BEST 1
Emergence	●	●	●	●	●
Standability	●	●	●	●	○
Phytophthora Field Tolerance	●	●	●	○	○
Sudden Death Syndrome	●	●	●	●	●
Iron Deficiency Chlorosis	●	●	●	●	○
Frogeye Leaf Spot	●	●	●	○	○

SCN SOLUTIONS. ROUNDUP READY 2 XTEND SOYBEANS

GH3982X BRAND — RM: 3.9

BROADLY ADAPTED WITH TOP-END YIELD PUNCH

- Stable performance across soil types
- Strongest on highly productive dryland acres or under irrigation
- Excellent choice to push north

Rating	9	7	5	3	BEST 1
Emergence	●	●	●	●	○
Standability	●	●	●	○	○
Phytophthora Field Tolerance	●	●	●	○	○
Sudden Death Syndrome	●	●	●	○	○
Iron Deficiency Chlorosis	●	●	●	○	○
Frogeye Leaf Spot	●	●	●	●	○

SCN SOLUTIONS. ROUNDUP READY 2 XTEND SOYBEANS

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

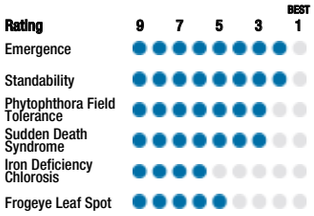
Rating	9	7	5	3	BEST 1
Emergence	●	●	●	●	●
Standability	●	●	●	●	●
Phytophthora Field Tolerance	●	●	●	○	○
Sudden Death Syndrome	●	●	○	○	○
Iron Deficiency Chlorosis	●	●	●	●	○
Frogeye Leaf Spot	●	●	●	●	○

SCN SOLUTIONS. Enlist E3 Soybeans

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

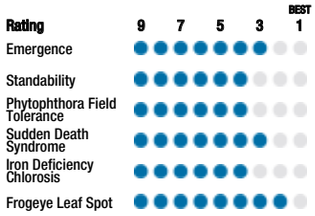


SCN SOLUTIONS. STS ROUNDUP READY 2 XTEND SOYBEANS

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

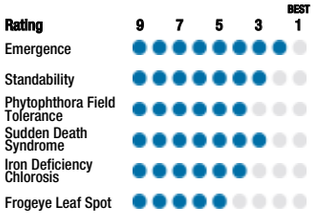


SCN SOLUTIONS. ROUNDUP READY 2 XTEND SOYBEANS

GH4531XS BRAND — RM: 4.5

TOP-END YIELDS WITH THE STS HERBICIDE OPTION

- Great choice for both dryland or irrigated acres
- Excellent choice for double-crop acres
- Moves South of zone well

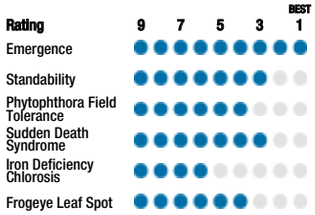


SCN SOLUTIONS. STS ROUNDUP READY 2 XTEND SOYBEANS

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

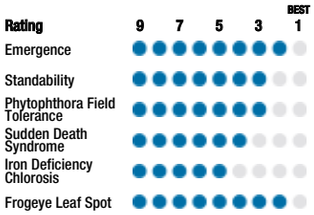


SCN SOLUTIONS. STS Enlist E3 Soybeans

GH4823XS BRAND — RM: 4.8

EXCITING YIELD POTENTIAL WITH STS TOLERANCE AND EXCLUDER GENE

- Excellent tolerance to Frogeye Leaf Spot
- Rps1c with reliable field tolerance to Phytophthora Root Rot
- Well suited for first crop or double crop planting

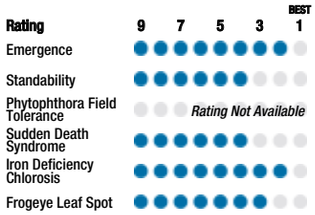


SCN SOLUTIONS. STS ROUNDUP READY 2 XTEND SOYBEANS

GH4877E3S BRAND — RM: 4.8

TALL ROBUST PRODUCT THAT YIELDS WELL ON TOUGH ACRES

- Very good Frogeye Leaf Spot tolerance
- STS herbicide tolerance for the double crop acre
- Excels on clay soils



STS Enlist E3 Soybeans

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

[1]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.

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

Trivapro®

Trivapro® fungicide features three proven active ingredients to deliver long-lasting, preventive and curative disease control in corn and provides plant-health benefits late into the season.

Miravis® Top

Miravis® Top soybean fungicide contains two active ingredients for strobi resistant frogeye leaf spot and outstanding target spot control, while also providing plant-health benefits to manage crop stress and maximize grower returns.

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®

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

Acuron, Avicta Complete Corn 500, Besiege, Force 6.5G and Tavium Plus VaporGrip Technology are Restricted Use Pesticides

DATA INSIGHTS DRIVE INFORMED DECISION-MAKING.

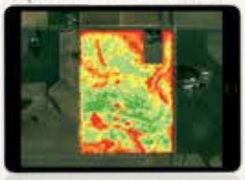
Our exclusive E-Luminate® digital agronomy platform contains over 15 years of environmental and trial data. That powerhouse of information enables your Golden Harvest Seed Advisor to more precisely place products for maximum performance and gain insights that inform next year's crop plan. Its capabilities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

GaMePLaN

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

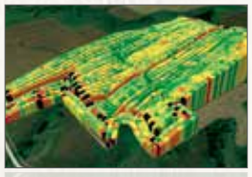
RangeFinder

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



E-Luminate Mobile

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



Decision Hub

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

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.

Agrisure Duracade®
5222A E-Z Refuge®

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

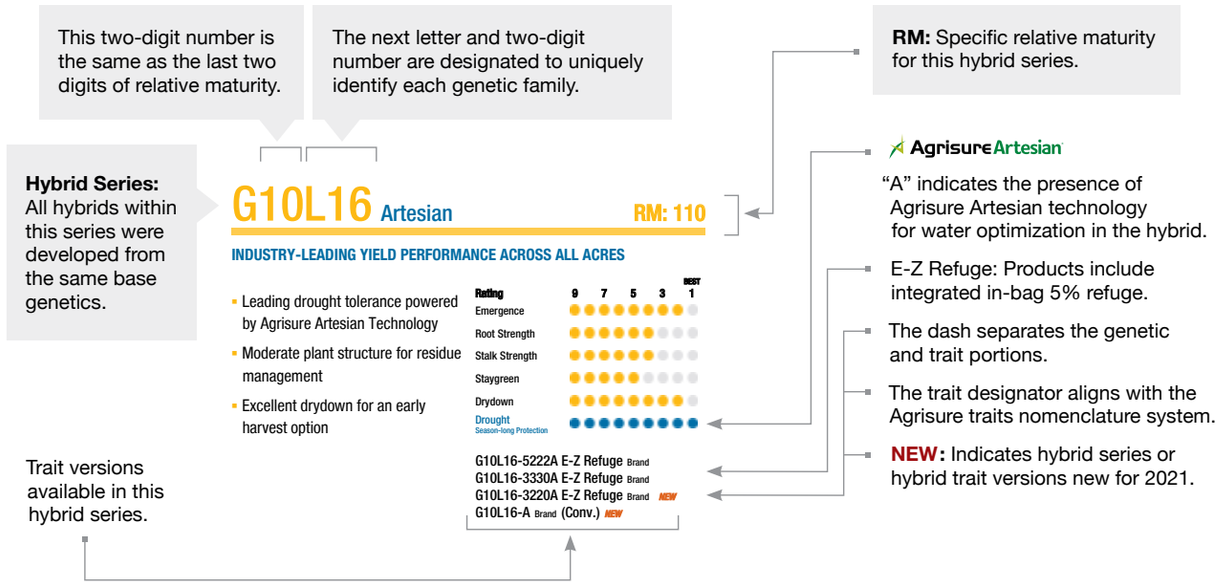
MASTER BRAND	SUFFIX	TECH SERIES	TRAITS	ARTESIAN HYBRID	INTEGRATED, SINGLE BAG
[Agrisure]	[Duracade]	[5]	[2 2 2]	[A]	[E-Z Refuge]
[Agrisure]	[Viptera]	[3]	[2 2 0]		[E-Z Refuge]
The **master brand.**	The **brand suffix** changes as new technologies are introduced.	The **technology series** is indicated by the first number.	The **numerical identifiers** represent the number of insect control modes of action. Note: Insect categories are in alphabetical order	The **letter A** indicates the hybrid is a water-optimized Agrisure Artesian hybrid.	The **E-Z Refuge** descriptor indicates that the hybrid is an integrated, single-bag refuge product.

MODES OF ACTION: Broad Lep, Corn Borer, Corn Rootworm

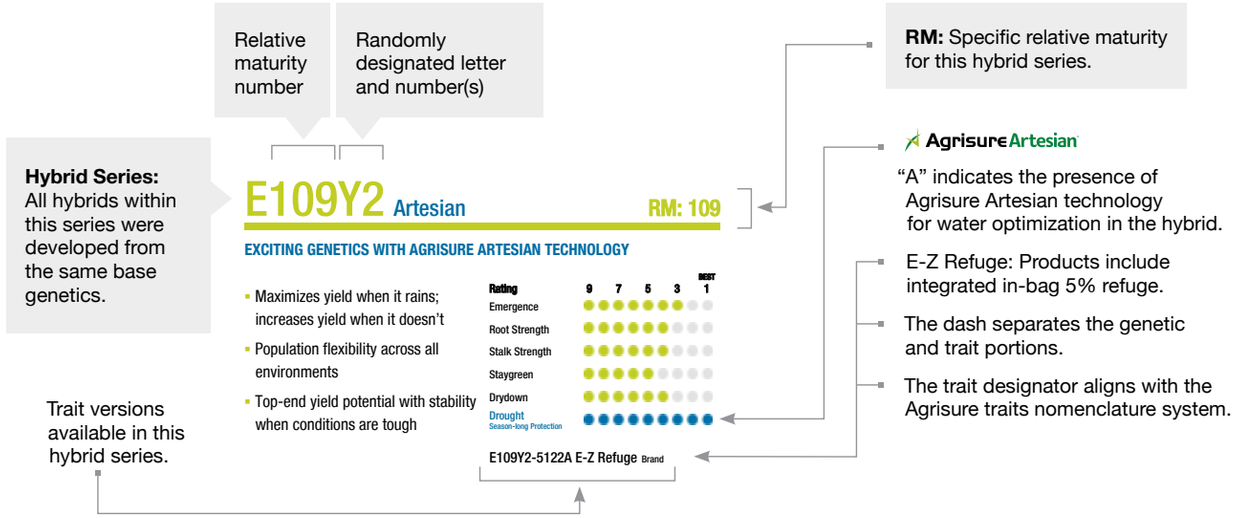
Note: The naming system does not apply to Agrisure 3000GT.

HYBRID & VARIETY KEYS

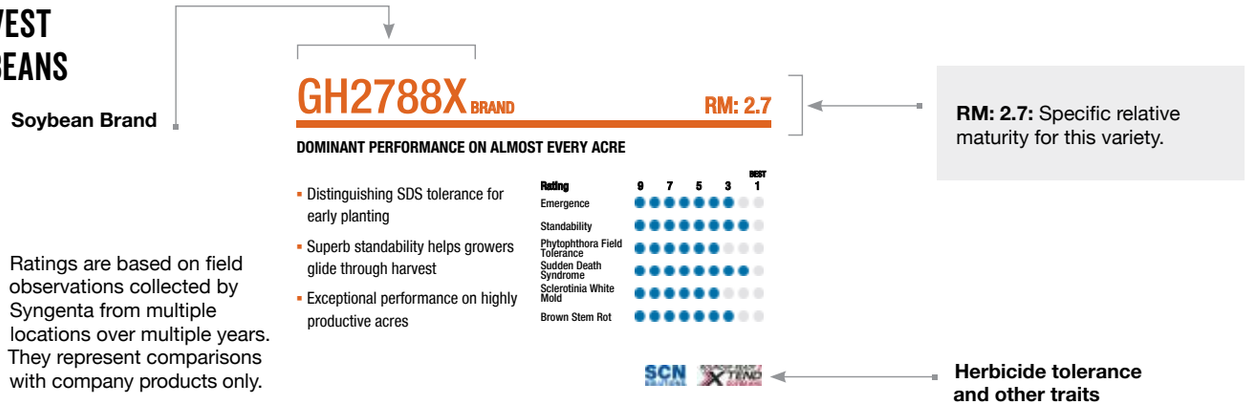
GOLDEN HARVEST CORN



ENOGEN CORN



GOLDEN HARVEST SOYBEANS



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.

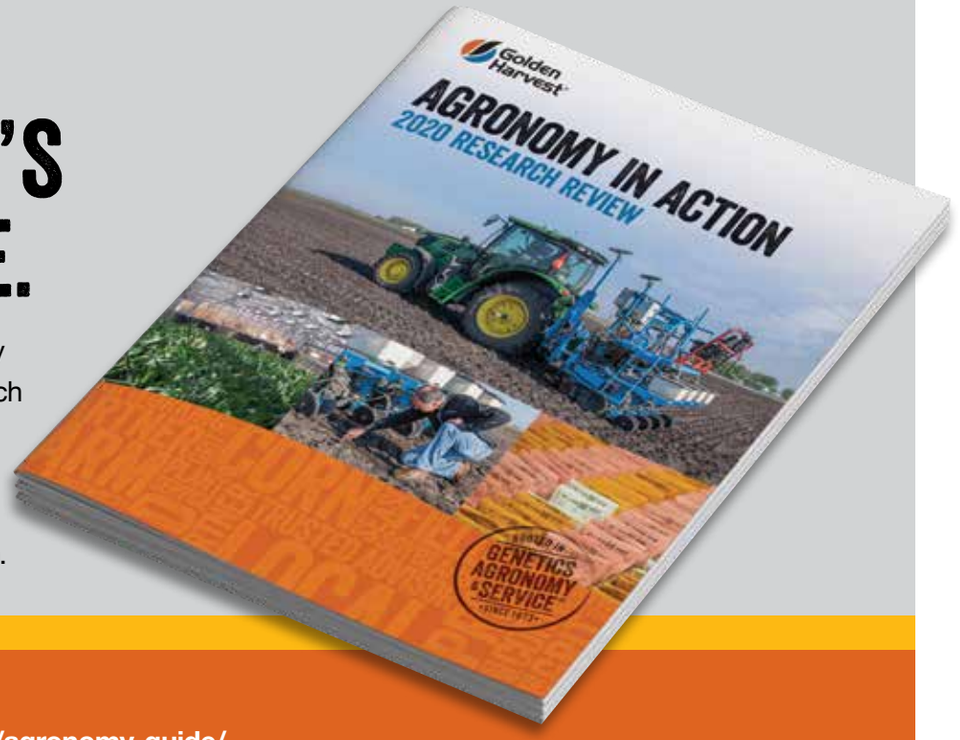
Agrisure Traits · LIBERTY LINK · HERCULEX I · HERCULEX XTRA · YieldGard VT PRO

GRAIN MARKETING

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

TAP INTO OUR TEAM'S EXPERTISE.

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



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

Product performance assumes disease presence.

Agrisure® Traits | LIBERTY LINK® | HERCULEX® I Insect Protection HX™ | HERCULEX® XTRA Insect Protection HX™ | YieldGard VT PRO™ | Enlist E3 Soybeans | Enlist E3 Corn

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