2020 Seed Guide
Southern Region

Delivering technology, genetics and value.
Since 1884, NK has earned a reputation for innovation.

1884
Among the companies operating today, Northrup King was the first to sell seed corn.

1922
One of the first private seed companies to create a formal research program.

1973
First private company to sell a proprietary soybean variety, S1474.

1993
First company to introduce bulk soybean containers, Q-Bit®.

1996
First company to market Bt seed corn.

1999
First company to market TruBulk® for easier delivery of soybean seed.
From day one, NK® has been forward-thinking and driven by science. We continue to live up to this legacy through strong investments in R&D, committed field support teams and an award-winning data analytics program.

Our latest advancements include high-speed trait conversion, which brings NK hybrids and varieties to market faster than before. The latest gene-editing technology helps NK seed breeders and scientists pinpoint high performing genetics. All done with one goal in mind—to help growers maximize whole-farm ROI potential.

**Latest technology**

Our technological advancements have allowed us to develop 12 new trait stacks in 13 years. These Agrisure® corn traits help growers protect genetic potential from pests while also optimizing water usage.

Our technology goes beyond the field and into the feedlot and ethanol plant. Enogen® and Enogen Feed offer a unique in-seed innovation that can help improve the profit potential of fields, feedlots or dairy farms.

**Proven genetics**

Yield is the most important factor when choosing a hybrid, and the NK hybrid yield results speak for themselves. In 2018, NK hybrids secured more than 100 top-10 finishes across 14 states in trials conducted by Farmers’ Independent Research of Seed Technologies (FIRST), including 28 top-three appearances.¹

**Incredible value**

ROI isn’t all about high yields. It’s a combination of several factors. Like market conditions, choosing seeds with consistent and excellent performance, competitive pricing and committed partners. And, it’s finding unique opportunities to offer growers greater value like we do with Enogen and Enogen Feed. NK is the complete package, helping growers achieve a better return on investment.

¹ Farmers’ Independent Research of Seed Technologies (FIRST). No product recommendation by FIRST is implied. See firstseedtests.com for details.
When it comes to yield, NK corn hybrids with Agrisure traits are among the best in the business. And for your business. The newest NK hybrids launched in 2019 outyielded major competitors in pre-launch trials by as much as 5.4 bu/A.

But that’s not all. NK breeders are constantly leveraging the award-winning R&D capabilities of Syngenta to deliver cutting-edge corn and soybean technology. This includes state-of-the-art trait conversion techniques that significantly shorten the breeding process and bring new products to market faster than ever before.

We’re also making advancements on the digital frontier with a digital seed selector tool that offers field-specific optimized seed recommendations based on local data, weather pattern history and more. NKcorn.com

Seeds built to boost your bottom line.

Protect yield potential with the latest trait technology.

Innovative Agrisure traits are designed with one thing in mind: to protect a grower’s investment in high-performance NK genetics. Our advanced Agrisure traits portfolio offers a wide choice of market-leading trait stacks to fit the unique needs of every acre. From proactively managing corn rootworm to controlling western bean cutworm to water optimization, count on Agrisure traits to safeguard NK genetics and help improve ROI.

Industry-leading insect control
Agrisure trait stacks offer in-seed control options for up to 16 key corn insect pests, with options for above- and below-ground control. AgrisureTraits.com

**Agrisure Duracade®**
Controlling corn rootworm (CRW) is important. So is managing resistance. By rotating with other traits, growers can help ensure corn rootworm trait technologies will be effective for the long term.

Trait stacks with the Agrisure Duracade trait express a unique protein that binds differently in the gut of corn rootworm that is essential to successful CRW management.

Agrisure Duracade 5222 E-Z Refuge® is the ultimate trait stack for insect control, simplicity and choice, providing protection from 16 above- and below-ground pests.

**Agrisure Viptera®**
Above-ground Agrisure trait stacks offer industry-leading control of ear-, stalk- and leaf-feeding insects for reduced insect damage, noticeably healthier ears and more kernels.

Trait stacks featuring Agrisure Viptera offer access to the only trait available that effectively controls western bean cutworm—no other trait in the industry provides better or more complete above-ground insect control.

Agrisure Viptera 3330 E-Z Refuge® trait stack includes three modes of action for key lepidopteran pests, including corn earworm.

Season-long drought protection
All Agrisure trait stacks are also available in hybrids with Agrisure Artesian® technology to maximize yield when it rains and increase yield when it doesn’t.

**Agrisure Artesian**
The most advanced water optimization technology on the market.

A simple, efficient way to help manage the unpredictability of weather.

Many trait stacks are available with E-Z Refuge seed blend, offering a convenient in-bag refuge.

To learn more about the elite Agrisure traits portfolio, visit AgrisureTraits.com

Agrisure Traits
Agrisure Duracade
Agrisure Viptera
Agrisure Artesian
**PRODUCT TRAIT OFFERS**

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>TRAIT OFFERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above/Below Ground Insect Protection with E-Z Refuge</td>
<td>Above Ground Insect Protection with E-Z Refuge</td>
</tr>
<tr>
<td><strong>NK Hybrid Series</strong></td>
<td></td>
</tr>
<tr>
<td>Agrisure Duracade</td>
<td><strong>Agrisure 3122</strong></td>
</tr>
<tr>
<td><strong>NK0821</strong></td>
<td>5122A</td>
</tr>
<tr>
<td><strong>NK1082</strong></td>
<td>5222A</td>
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<tr>
<td><strong>NK1205</strong></td>
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<td><strong>NK1354</strong></td>
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<tr>
<td><strong>NK1860</strong></td>
<td>5122</td>
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</tbody>
</table>

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.

**CORN CHARACTERISTICS**

**Comprehensive above-ground insect control.**

Talk to your local NK® retailer about profit protection that goes above and beyond.

*AgrisureViptera.com*

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To order, contact your NK retailer or call 1-800-258-0521 or visit NKSeeds.com
Control more insects, above and below ground.

Talk to your local NK® retailer about defending your yield.

AgrisureDuracade.com
To order, contact your NK retailer or call 1-800-258-0521 or visit NKSeeds.com

**NK0821 Artesian**

OUTSTANDING STALKS AND VERY GOOD ROOTS FOR SEASON-LONG STANDABILITY

- Maximizes yield when it rains, increases yield when it doesn’t
- Very strong emergence allows for early planting
- Good ear flex provides population flexibility

**Rating**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Rating</th>
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</thead>
<tbody>
<tr>
<td>Emergence</td>
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</tr>
<tr>
<td>Root Strength</td>
<td>7</td>
</tr>
<tr>
<td>Stalk Strength</td>
<td>5</td>
</tr>
<tr>
<td>Staysgreen</td>
<td>3</td>
</tr>
<tr>
<td>Drydown</td>
<td></td>
</tr>
<tr>
<td>Season Long Drought</td>
<td></td>
</tr>
</tbody>
</table>

**NK0821-5122A E-Z Refuge**

**NK0821-3120A E-Z Refuge**


**NK1082 Artesian**

EXCELLENT YIELD POTENTIAL ACROSS THE ENTIRE CORN BELT WITH AGRISUR ARTESIAN TECHNOLOGY

- Broadly adapted hybrid for all yield environments
- Moderate plant stature with great emergence for earlier planting window
- Flexible trait offering for step change in above and below ground management

**Rating**

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<td></td>
</tr>
</tbody>
</table>

**NK1082-5222A E-Z Refuge**

**NK1082-3330A E-Z Refuge**


**NK1205**

STRONG YIELD PERFORMANCE ACROSS THE CORN BELT TO THE EAST COAST

- Attractive plant stature to minimize residue
- Works well across all soil types with dependable drought tolerance
- Excellent grain quality and test weight

**Rating**

<table>
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<td>3</td>
</tr>
<tr>
<td>Drydown</td>
<td></td>
</tr>
</tbody>
</table>

**NK1205-3120 E-Z Refuge**


**NK1354**

EXCELLENT EMERGENCE AND SOLID EARLY VIGOR FOR A FAST START

- Solid disease package to protect the top-end yield potential
- Superb drydown for a quick harvest
- Good ear flex provides population flexibility

**Rating**

<table>
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<td>3</td>
</tr>
<tr>
<td>Drydown</td>
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</tbody>
</table>

**NK1354-5222 E-Z Refuge**

**NK1354-3220 E-Z Refuge**


**NK1433**

GREAT PERFORMANCE IN STRESS ENVIRONMENTS TO MINIMIZE WEATHER RISKS

- Ear flex provides population flexibility
- Superb seedling vigor for a strong start
- Sound agronomics allow for broad adaptability

**Rating**

<table>
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<tbody>
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<td>3</td>
</tr>
<tr>
<td>Drydown</td>
<td></td>
</tr>
</tbody>
</table>

**NK1433-5122 E-Z Refuge**

**NK1433-3120 E-Z Refuge**

**NK1433-GT**


**NK1444**

SUPERIOR STRESS TOLERANCE FOR CONSISTENT TOP-END YIELDS

- Very strong stalk strength enhances late-season plant intactness
- Yields well in high-disease environments, despite low Gray Leaf Spot resistance
- Ear flex allows for normal to below normal planting populations

**Rating**

<table>
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<td></td>
</tr>
<tr>
<td>Drydown</td>
<td></td>
</tr>
</tbody>
</table>

**NK1444-3111**

To order, contact your NK retailer or call 1-800-258-0521 or visit NKSeeds.com
NK1460
BROADLY ADAPTED HYBRID WITH INDUSTRY-LEADING TRAIT OPTIONS
- Industry leading trait package for management of above and below ground insects
- Outstanding performance in the Central and Western Corn Belt
- Solid performance under limited irrigation or rainfall

NK1460-5222 E-Z Refuge

NK1573
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

NK1573-3330 E-Z Refuge
NK1573-3000GT

NK1694
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

NK1694-3111 branded
NK1694-GT branded

NK1808
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

NK1808-3111 branded
NK1808-GT branded

NK1822
FULL-SEASON YIELD LEADER WITH HIGH TOP-END YIELD
- Solid agronomic package with excellent harvestability
- Best placed on highly productive soils
- Use moderate planting rates for best performance

NK1822-3111 branded

NK1860
TREMENDOUS TOP-END YIELD POTENTIAL ON HIGHLY PRODUCTIVE SOIL TYPES
- Great choice for irrigated acres
- Very good stalks and roots contribute to late-season intactness and standability
- Flex ear type with excellent harvestability

NK1860-3111 branded
# CORN AGRONOMIC MANAGEMENT

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>AGRONOMIC MANAGEMENT AND PLACEMENT TRAITS</th>
<th>END-USE TRAITS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SEEDING RATE % ADJUSTMENT</td>
<td>ADAPTATION TO SOIL TYPES/YIELD ENVIRONMENTS</td>
</tr>
<tr>
<td>NK Hybrid Series</td>
<td>Relative Maturity (RM)</td>
<td>Continuous Corn</td>
</tr>
<tr>
<td>NK0821</td>
<td>108</td>
<td>- 20%</td>
</tr>
<tr>
<td>NK1082 NEW</td>
<td>110</td>
<td>-</td>
</tr>
<tr>
<td>NK1205 NEW</td>
<td>112</td>
<td>-</td>
</tr>
<tr>
<td>NK1354</td>
<td>113</td>
<td>-</td>
</tr>
<tr>
<td>NK1433</td>
<td>114</td>
<td>ø</td>
</tr>
<tr>
<td>NK1444</td>
<td>ø</td>
<td>ø</td>
</tr>
<tr>
<td>NK1460 NEW</td>
<td>114</td>
<td>-</td>
</tr>
<tr>
<td>NK1573</td>
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<tr>
<td>NK1694</td>
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<tr>
<td>NK1860</td>
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</tr>
</tbody>
</table>

## CORN POPULATION RESPONSE FACTORS

This annual study aids growers’ 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

<table>
<thead>
<tr>
<th>YIELD ENVIRONMENT (BU/A)</th>
<th>HIGHEST YIELDING SEEDING RATE (SEEDS/A)</th>
<th>OPTIMUM SEEDING RATE (SEEDS/A) BY COMMODITY PRICE ($/BU) (SEED COST = $200/80K UNIT)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>$3.00</td>
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<tr>
<td>280</td>
<td>40,200</td>
<td>36,600</td>
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<td>240</td>
<td>38,500</td>
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<td>160</td>
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<td>26,900</td>
</tr>
<tr>
<td>120</td>
<td>29,700</td>
<td>20,900</td>
</tr>
</tbody>
</table>

## RATING SCALE

- **1 = Best**
- **9 = Worst**
- **- = Not Available**

## SCORE INTERPRETATION

- **ø = Best Choice**
- **ø = Good Choice**
- **ø = Average to Slightly Below Average**
- **ø = Not Recommended**
- **ø = Not Available**

## DROUGHT AGROSYNTHESIS

- **Agrisure Artesian**
- Water-optimized hybrid.

## GENERAL INTERPRETATION OF HYBRID RESPONSE TO MANAGEMENT/PLACEMENT SITUATIONS AND END-USE TRAITS

**Seeding Rate % Adjustment**: Indicates how well a hybrid responds to lower or higher planting populations. Your local NK retailer has a calculator tool to help determine optimal seeding population for various environments.

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

**Continuous Corn**: Ratings indicate whether hybrid contains multiple agronomic phenotypic traits deemed important for continuous corn systems. Ratings are weighted based on the individual hybrid characteristics: emergence strength, early vigor, root and stalk strength, staygreen and yield.

**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.

**Feed to Gain**: Favorable ratings indicate hybrids with kernel density and weight associated with optimized feed to gain in a dry-rolled corn ration according to independent testing.

To order, contact your NK retailer or call 1-800-258-0521 or visit NKSeeds.com
**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.

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>AGRONOMIC CHARACTERISTICS</th>
<th>DISEASE TOLERANCE</th>
<th>AGRONOMIC RESEARCH RATINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Relative Maturity (RM)</td>
<td>Yield (Tons/A)</td>
<td>CP (% of DM)</td>
</tr>
<tr>
<td>NK Hybrid Series</td>
<td>Emergence</td>
<td>Root Strength</td>
<td>Drought</td>
</tr>
<tr>
<td>NK0821</td>
<td>108</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>NK1354</td>
<td>113</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>NK1433</td>
<td>114</td>
<td>2</td>
<td>4</td>
</tr>
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<td>NK1444</td>
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<tr>
<td>NK1573</td>
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<td>3</td>
</tr>
<tr>
<td>NK1694</td>
<td>116</td>
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<td>5</td>
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<td>NK1808</td>
<td>118</td>
<td>4</td>
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<tr>
<td>NK1822</td>
<td>118</td>
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</tr>
<tr>
<td>NK1860</td>
<td>118</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

**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

**DROUGHT**

- Agrisure Artesian water-optimized hybrid.

**RATINGS KEY**

- ★ = Best Choice
- ● = Good Choice
- ▼ = Average to Slightly Below Average
- ★★ = Best Choice
- ★ = Good Choice
- ▼ = Average to Slightly Below Average
- ★★ = Best Choice

**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):** Measure of the indigestible and slowly digestible components of the silage.

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

**Starch:** Indicates the percent content of feed component.

**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.


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**Buy a Ram® Truck. Get an NK seed rebate.**

Get a $250 soybean seed rebate or a $1,000 corn seed rebate with the purchase of a new Ram truck from a Ram AgPack dealer.

Learn more at RamAgDealer.com/Ram-AgPack-promo
**Feed with more ROI potential.**

Enogen Feed hybrids don’t just offer excellent yield potential across a variety of soil types and conditions.

The proven trait also boosts the energy potential of a feedlot or dairy ration. Enogen technology increases starch availability, digestibility, total digestible nutrients and silage quality, and can increase the feed efficiency of a beef cattle production by an average of 5 percent. And when incorporated into a dairy ration, predictive modeling software has indicated a potential 3–5 percent gain in potential income over feed cost.

Putting Enogen Feed to work on the farm is as easy as replacing the grain or silage currently grown and fed and complying with simple stewardship requirements. To learn more, visit EnogenFeed.com

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**INVEST IN ENERGY.**

The first biotech corn output trait designed for ethanol production, Enogen increases ROI potential. Featuring corn enzyme technology, Enogen helps ethanol plant profitability by increasing potential throughput and reducing natural gas, water and electricity use.

Available in industry-leading trait packages with high-yielding genetics, Enogen is another way NK is helping growers find unique ways to boost profitability.

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1 University of Nebraska Lincoln research study, 2016.
2 Syngenta contract research, 2016.

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To order, contact your NK retailer or call 1-800-258-0521 or visit NKSeeds.com
**ENOGEN HYBRID CHARACTERISTICS**

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>TRAIT OFFERS</th>
<th>MATURITY INFORMATION</th>
<th>AGRONOMIC CHARACTERISTICS</th>
<th>PLANT CHARACTERISTICS</th>
<th>DISEASE TOLERANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enogen Hybrid Series</td>
<td>Above/Below Ground Insect Protection</td>
<td>Relative Maturity (RM)</td>
<td>GDU's to Silk</td>
<td>GDU's to Black Layer</td>
<td>Emergence</td>
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<tr>
<td>E112J1</td>
<td>3011A</td>
<td>112</td>
<td>1415</td>
<td>2600</td>
<td>2</td>
</tr>
<tr>
<td>E113Q6</td>
<td>3000GT</td>
<td>113</td>
<td>1415</td>
<td>2610</td>
<td>3</td>
</tr>
<tr>
<td>E113Z5 NEW</td>
<td>5122 NEW</td>
<td>113</td>
<td>1435</td>
<td>2650</td>
<td>2</td>
</tr>
<tr>
<td>E114H6</td>
<td>5122A</td>
<td>114</td>
<td>1455</td>
<td>2660</td>
<td>4</td>
</tr>
<tr>
<td>E116K4</td>
<td>3000GT</td>
<td>116</td>
<td>1465</td>
<td>2690</td>
<td>4</td>
</tr>
<tr>
<td>E118D8</td>
<td>3000GT</td>
<td>118</td>
<td>1480</td>
<td>2700</td>
<td>4</td>
</tr>
</tbody>
</table>

**RATING SCALE**
- 1 = Best
- 9 = Worst
- = Not available

**TEST WEIGHT**
- 1 = High
- 9 = Low

**PLANT HEIGHT**
- 1 = Tall
- 9 = Short

**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
- P = Pink
- W = White

**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. Growers 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 FOR AGRISURE TRAITS IN ENOGEN HYBRIDS**
Examples of Enogen hybrid-specific trait herbicide tolerance:
- **3000GT-EVT3/3011A-EVT3**: Can only be sprayed with glyphosate; cannot be sprayed with glufosinate.
- **3000GT-EVT5.1**: Can be sprayed with glyphosate and glufosinate.
- **All Enogen 5122/5122A**: Can only be sprayed with glyphosate; cannot be sprayed with glufosinate.

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.
E111F1 Artesian

**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
- Excellent root and stalk strength for ease of harvest

<table>
<thead>
<tr>
<th>Rating</th>
<th>Emergence</th>
<th>Root Strength</th>
<th>Stalk Strength</th>
<th>Staygreen</th>
<th>Drydown</th>
<th>Season-Long Drought Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>9</td>
<td>7</td>
<td>5</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

E111F1-5122A E-Z Refuge

---

E112J1 Artesian

**TOP YIELD WITH AGRISURE ARTESIAN TECHNOLOGY FOR CENTRAL AND EASTERN CORN BELT**

- Maximizes yield when it rains; increases yield when it doesn’t
- Strong emergence and seedling vigor for early planting
- Proven performance

<table>
<thead>
<tr>
<th>Rating</th>
<th>Emergence</th>
<th>Root Strength</th>
<th>Stalk Strength</th>
<th>Staygreen</th>
<th>Drydown</th>
<th>Season-Long Drought Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>9</td>
<td>7</td>
<td>5</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

E112J1-3011A

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E113Q6

**POWERFUL DISEASE PROTECTION WITH TOP YIELDS**

- Flex-ear hybrid that performs across multiple environments
- Good continuous corn choice with excellent emergence and seedling growth
- Good stalk strength and staygreen contribute to good late-season plant integrity

<table>
<thead>
<tr>
<th>Rating</th>
<th>Emergence</th>
<th>Root Strength</th>
<th>Stalk Strength</th>
<th>Staygreen</th>
<th>Drydown</th>
<th>Drought</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>9</td>
<td>7</td>
<td>5</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

E113Q6-3000GT

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E113Z5

**EXCELLENT Emergence and SOLID EARLY Vigor FOR A FAST START**

- Solid disease package to protect the top-end yield potential
- Superb drydown for a quick harvest
- Good ear flex provides population flexibility

<table>
<thead>
<tr>
<th>Rating</th>
<th>Emergence</th>
<th>Root Strength</th>
<th>Stalk Strength</th>
<th>Staygreen</th>
<th>Drydown</th>
<th>Drought</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>9</td>
<td>7</td>
<td>5</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

E113Z5-5122 E-Z Refuge

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E114H6 Artesian

**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

<table>
<thead>
<tr>
<th>Rating</th>
<th>Emergence</th>
<th>Root Strength</th>
<th>Stalk Strength</th>
<th>Staygreen</th>
<th>Drydown</th>
<th>Season-Long Drought Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>9</td>
<td>7</td>
<td>5</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

E114H6-5122A E-Z Refuge

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E116K4

**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

<table>
<thead>
<tr>
<th>Rating</th>
<th>Emergence</th>
<th>Root Strength</th>
<th>Stalk Strength</th>
<th>Staygreen</th>
<th>Drydown</th>
<th>Drought</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>9</td>
<td>7</td>
<td>5</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

E116K4-3000GT

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To order, contact your NK retailer or call 1-800-258-0521 or visit NKSeeds.com
## ENOGEN HYBRID AGRONOMIC MANAGEMENT

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>AGRONOMIC MANAGEMENT AND PLACEMENT TRAITS</th>
<th>END-USE TRAITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enogen Hybrid Series</td>
<td>SEEDING RATE % ADJUSTMENT</td>
<td>ADAPTATION TO SOIL TYPES/YIELD ENVIRONMENTS</td>
</tr>
<tr>
<td></td>
<td>- 20%</td>
<td>- 10%</td>
</tr>
<tr>
<td>Enogen Hybrid Series</td>
<td>Relative Maturity (RM)</td>
<td>Root Strength</td>
</tr>
<tr>
<td>E106Q6</td>
<td>106</td>
<td>★</td>
</tr>
<tr>
<td>E111F1</td>
<td>111</td>
<td>★</td>
</tr>
<tr>
<td>E112J1</td>
<td>112</td>
<td>★</td>
</tr>
<tr>
<td>E113Q6</td>
<td>113</td>
<td>★</td>
</tr>
<tr>
<td>E113Z5 NEW</td>
<td>113</td>
<td>★</td>
</tr>
<tr>
<td>E114H6</td>
<td>114</td>
<td>★</td>
</tr>
<tr>
<td>E116K4</td>
<td>116</td>
<td>★</td>
</tr>
<tr>
<td>E118D8</td>
<td>118</td>
<td>★</td>
</tr>
</tbody>
</table>

### CORN POPULATION RESPONSE FACTORS
This annual study aids growers’ 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

<table>
<thead>
<tr>
<th>YIELD ENVIRONMENT (BU/A)</th>
<th>HIGHEST YIELDING SEEDING RATE (SEEDS/A)</th>
<th>OPTIMUM SEEDING RATE (SEEDS/A) BY COMMODITY PRICE ($/BU) (SEED COST = $200/80K UNIT)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>$3.00</td>
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<tr>
<td>280</td>
<td>40,200</td>
<td>36,600</td>
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<tr>
<td>240</td>
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<td>34,100</td>
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<tr>
<td>200</td>
<td>36,400</td>
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<td>160</td>
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<td>26,900</td>
</tr>
<tr>
<td>120</td>
<td>29,700</td>
<td>20,900</td>
</tr>
</tbody>
</table>

### RATING SCALE
- 1 = Best
- 9 = Worst
- - = Not available

### SCORE INTERPRETATION
- ★ = Best Choice
- ● = Good Choice
- ★ = Average to Slightly Below Average
- X = Not Recommended
- - = 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.

### GENERAL INTERPRETATION OF HYBRID RESPONSE TO MANAGEMENT/PLACEMENT SITUATIONS AND END-USE TRAITS

**Seeding Rate % Adjustment:** The seeding rate columns indicate how well a hybrid responds to lower or higher planting populations. Your local Syngenta Representative has a calculator tool to help determine the optimal seeding population for various environments in your local geography.

**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.
NK soybeans have a track record of high performance from an established genetics portfolio with proven disease and pest protection. We’re also unmatched when it comes to bringing new industry-leading soybean varieties to market faster while also delivering superior yield potential.

**Traits packed with technology**

To maximize ROI, growers need to maximize the potential of our advanced genetics. Our best-in-class agronomic characteristics make that possible. The latest NK offerings allow growers to protect yield potential from more threats than ever before, including Soybean Cyst Nematode (SCN), Sudden Death Syndrome (SDS), Iron Deficiency Chlorosis (IDC) and Phytophthora root rot. [NKsoybeans.com](http://www.NKsoybeans.com)
Industry-leading traits.

Weed management is the biggest concern of most soybean producers. Among leading soybean companies, only NK soybeans offer all herbicide trait options to help growers with weed management. We also offer the expertise to help growers choose the right technology platform. And with a state-of-the-art greenhouse, we can provide more options with accelerated trait conversion.

**Roundup Ready 2 Xtend®**
The industry’s first biotech stacked soybean trait that confers tolerance to glyphosate and dicamba herbicides—two different modes of action that deter resistance in weeds.

**Enlist E3™**
The first three-gene herbicide tolerant trait stack, Enlist E3 soybeans confer robust tolerance to glyphosate, glufosinate and 2,4-D herbicides, offering exceptional weed control and resistance management options. And with an advanced molecular construction, the Enlist E3 trait enables efficient breeding, which brings high-quality varieties to market faster.

CONVERTING GENETICS
Multiple NK genetics are in the pipeline to be converted from the Roundup Ready 2 Xtend portfolio to future trait Xtendflex® (RR2X/LL).

ALWAYS READ AND FOLLOW PESTICIDE PRODUCT LABELING. It is a violation of federal and state law to use any pesticide product in a manner inconsistent with its labeling.

Only dicamba formulations that employ VaporGrip® Technology are approved for use with Roundup Ready 2 Xtend® soybeans.

Only 2,4-D chloride formulations with Colex-D® Technology are approved for use with Enlist E3™ soybeans.

Enlist Duo and Enlist One herbicides are not registered for sale or use in all states or counties. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your area.
## SOYBEAN CHARACTERISTICS

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>AGRONOMIC/PLANT CHARACTERISTICS*</th>
<th>ADAPTATION TO SOIL TYPES/ YIELD ENVIRONMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Drought Prone</td>
</tr>
<tr>
<td>S30-M9X</td>
<td>RR2X 3.0</td>
<td>3</td>
</tr>
<tr>
<td>S33-D7X</td>
<td>RR2X 3.3</td>
<td>1</td>
</tr>
<tr>
<td>S35-E3 NEW</td>
<td>E3 3.5</td>
<td>2</td>
</tr>
<tr>
<td>S35-K9X</td>
<td>RR2X 3.5</td>
<td>2</td>
</tr>
<tr>
<td>S36-E3 NEW</td>
<td>E3 3.6</td>
<td>2</td>
</tr>
<tr>
<td>S37-A4X NEW</td>
<td>RR2X 3.7</td>
<td>2</td>
</tr>
<tr>
<td>S37-E3S NEW</td>
<td>E3/STS 3.7</td>
<td>3</td>
</tr>
<tr>
<td>S39-E3S NEW</td>
<td>E3 3.9</td>
<td>2</td>
</tr>
<tr>
<td>S41-E3S NEW</td>
<td>E3 4.1</td>
<td>3</td>
</tr>
<tr>
<td>S42-B9X5</td>
<td>RR2X/STS 4.2</td>
<td>2</td>
</tr>
<tr>
<td>S43-E3 NEW</td>
<td>E3 4.3</td>
<td>3</td>
</tr>
<tr>
<td>S43-V9X</td>
<td>RR2X 4.3</td>
<td>3</td>
</tr>
<tr>
<td>S44-C7X NEW</td>
<td>E3/STS 4.4</td>
<td>2</td>
</tr>
<tr>
<td>S46-J3X</td>
<td>RR2X 4.5</td>
<td>2</td>
</tr>
<tr>
<td>S46-K5X</td>
<td>RR2X 4.5</td>
<td>3</td>
</tr>
<tr>
<td>S46-S4X5</td>
<td>RR2X/STS 4.5</td>
<td>3</td>
</tr>
<tr>
<td>S47-K3X</td>
<td>RR2X 4.6</td>
<td>1</td>
</tr>
<tr>
<td>S47-F6L</td>
<td>LL 4.7</td>
<td>2</td>
</tr>
<tr>
<td>S47-Y9X</td>
<td>RR2X 4.7</td>
<td>2</td>
</tr>
<tr>
<td>S49-E3 NEW</td>
<td>E3 4.9</td>
<td>3</td>
</tr>
<tr>
<td>S50-G9X5</td>
<td>RR2X/STS 5.0</td>
<td>2</td>
</tr>
<tr>
<td>S52-Y7X</td>
<td>RR2X 5.1</td>
<td>1</td>
</tr>
<tr>
<td>S53-F7X NEW</td>
<td>RR2X 5.2</td>
<td>2</td>
</tr>
<tr>
<td>S55-Q3</td>
<td>GENRR2Y 5.5</td>
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</tr>
<tr>
<td>S56-B7X</td>
<td>RR2X 5.6</td>
<td>3</td>
</tr>
<tr>
<td>S60-U6L5</td>
<td>LL/STS 5.7</td>
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</tr>
<tr>
<td>S61-R0X5 NEW</td>
<td>RR2X/STS 5.8</td>
<td>2</td>
</tr>
<tr>
<td>S62-Y7X</td>
<td>RR2X 5.9</td>
<td>2</td>
</tr>
<tr>
<td>S63-F7X NEW</td>
<td>RR2X 6.0</td>
<td>2</td>
</tr>
<tr>
<td>S65-Q3</td>
<td>GENRR2Y 6.1</td>
<td>3</td>
</tr>
<tr>
<td>S66-B7X</td>
<td>RR2X 6.2</td>
<td>3</td>
</tr>
</tbody>
</table>
| *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**
- GENRR2Y = Genuity® Roundup Ready 2 Yield®
- RR2X = Roundup Ready 2 Xtend®
- RR2X/STS = Roundup Ready 2 Xtend® and STS®
- E3 = ENLIST E3™
- E3/STS = ENLIST E3™ and STS®
- LL = LibertyLink®
- STS = Sulfonylurea Tolerant Soybean

**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**
- ● = Best Choice
- ○ = Good Choice
- ▼ = Average to Slightly Below Average
- × = Not Recommended
- △ = Not Available
### Soybeans

**PHYTOPHTHORA GENE RESISTANCE**

The following genes confer resistance to the listed races of Phytophthora:

<table>
<thead>
<tr>
<th>Resistance gene</th>
<th>Races conferred</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rps1a</td>
<td>1, 2, 10, 11, 13-18, 24, 26, 27, 31, 32, 36-38</td>
</tr>
<tr>
<td>Rps1c</td>
<td>1-3, 6-11, 13, 15, 17, 21, 23, 24, 26, 28-30, 32, 34, 36, 38, 44</td>
</tr>
<tr>
<td>Rps3a</td>
<td>1-5, 8, 9, 11, 13, 14, 16, 18, 23, 25, 28, 29, 31-35, 39, 44, 45</td>
</tr>
<tr>
<td>S</td>
<td>Susceptible (no gene-specific tolerance)</td>
</tr>
</tbody>
</table>

**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.

**DISEASE/PEST**

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

- **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.

**GRAIN QUALITY**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Protein @13% mst.</th>
<th>Oil @13% mst.</th>
<th>Gene</th>
<th>Resistance</th>
<th>Field Tolerance</th>
<th>Soybean Cyst Nematode (SCN)</th>
<th>Southern Stem Canker Field Tolerance</th>
<th>Root Knot Nematode - Inocagina</th>
<th>Iron Deficiency Chlorosis (IDC)</th>
<th>Brown Stem Rot</th>
<th>Sclerotinia White Mold (SWM)</th>
<th>Sudden Death Syndrome (SDS)</th>
<th>Frogeye Leaf Spot (FLS)</th>
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</thead>
<tbody>
<tr>
<td>33.0</td>
<td>19.8</td>
<td></td>
<td>Rps1c</td>
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<td></td>
<td>R3, MR14</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>S30-M9X</td>
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<tr>
<td>33.2</td>
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<td>Rps1a</td>
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<td>R3</td>
<td>-</td>
<td>-</td>
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<td>S33-D7X</td>
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<td>Rps1c</td>
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<td>R3, MR14</td>
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<td>-</td>
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<td>Rps1a</td>
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<td>R3, MR14</td>
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<td>7</td>
<td>5</td>
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<td>-</td>
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<td>S35-K9X</td>
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**DISEASE/PEST RATINGS**

- **1** = Best
- **9** = Worst
- **-** = Not available
In order to help ensure maximum performance and protection of our advanced genetics, we recommend innovative products from the Syngenta seed treatment portfolio. These high-performance seed treatments protect your investment against early season diseases, insects and season-long activity for nematodes.

Through our work at the Seedcare Institute and our R&D teams, we are committed to bringing the newest technologies to market. And we have a deep pipeline of seed treatment products in development, including a new defense against soybean Sudden Death Syndrome (SDS) and new modes of action against some of the toughest pests in soybeans.

SyngentaSeedcare.com

Coming soon—a new soybean seed treatment for Sudden Death Syndrome (SDS) and nematodes.

Upon registration with the US EPA, Adepidyn® fungicide will be marketed as Saltro® fungicide. It will offer:

Based on 3 years of field trial results, consistent yield improvement over a leading SDS competitor under high SDS pressure.

The highest intrinsic activity against Fusarium virguliforme, the causal organism of SDS.

Activity against soybean cyst, root knot, lesion and lance nematodes.

Protection from SDS without signs of early season plant stress, including phytotoxicity, stunting, susceptibility to pests or weather and reduced plant stands.

Provides broad-spectrum protection from damaging early season insects and diseases from day one because what’s on your seed matters, and not all seed treatments are created equal.

Optimizes root health, nutrient and water uptake and stress tolerance for better emergence through the unique RootingPower of Vibrance® fungicide.

Delivers faster speed to canopy and more robust, vigorous plants for improved overall performance through the Cruiser® Vigor Effect.

Helps establish a higher stand count vs. competitor seed treatments and generics, and reduces the risk and costs of replants.

Consistently outperforms against custom blends.

Season-long, lethal activity against Soybean Cyst Nematode (SCN), with added broad-spectrum, early season protection from damaging insects and diseases.

Offers the only season-long, lethal activity against SCN on the market.

Is a premix formulation of Clariva® nematicide and CruiserMaxx® Vibrance seed treatment to optimize root health and plant vigor.

Delivers an attractive return on investment with an average yield increase of 2.7 bushels per acre, with some fields achieving yield increases of more than 10 bu/A.

Establishes a higher stand count and stronger emergence vs. Acceleron® Elite + ILeVO® delivering more yield.

Combines with Mertect® 340-F fungicide for increased activity against SDS and other SCN-related diseases.

1 Adepidyn/Saltro is not registered for sale or use as a seed treatment in the US and is not being offered for sale.

2 Includes locations that exhibited 20 percent SDS incidence or more as measured by a local scientist Syngenta Seedcare trials, 2015-2017, trial locations: AR, IL, IA, KY, MI, MN, TN, WI (p<0.1).

3 2015 Syngenta trials. Competitor comparisons: Performance evaluations are based solely upon interpretation of public information and field observations.

To order, contact your NK retailer or call 1-800-258-0521 or visit NKSeeds.com
S35-K9X<sup>BRAND</sup>  
**EXCEPTIONAL YIELD AND AGRONOMICS**
- Outstanding Frogeye Leaf Spot and SDS tolerance
- Broadly adapted across soils and geographies
- Best on high-yielding dryland acres

**S37-A4X<sup>BRAND</sup>**
**NEW**  
**MAXIMUM YIELD WITH EXCELLENT SDS TOLERANCE**
- Thrives in fine textured, poorly drained soils
- Great emergence and agronomics for early planting
- Moves north of zone and stands exceptionally well

---

**S39-E3<sup>BRAND</sup>**
**NEW**  
**STRONG YIELD AND AGRONOMICS TO PROTECT ALL SEASON**
- Excellent SDS tolerance
- Solid tolerance to Frogeye Leaf Spot
- Exceptional Southern Stem Canker tolerance

**S39-G2X<sup>BRAND</sup>**
**NEW**  
**BROADLY ADAPTED WITH TOP-END YIELD KICK**
- Proven genetics with great standability and SDS tolerance
- Recommended for fine textured, poorly drained soils
- Strongest performance on highly productive acres

---

**S41-E3<sup>BRAND</sup>**
**NEW**  
**TOP PERFORMANCE WITH SOLID AGRONOMICS**
- Broadly adapted across MG 4 acres
- Very good standability with strong Frogeye Leaf Spot tolerance
- Rps3a with proven emergence for early planting

**S42-B9X<sup>BRAND</sup>**
**NEW**  
**HIGH-YIELDING STS PRODUCT WITH SUPERB STANDABILITY**
- Exceeds on any acre, dryland or irrigated
- Good Phytophthora Root Rot field tolerance with the Rps1c gene
- Dependable SDS tolerance
**S43-E3 BRAND**
**NEW**  
**RM:** 4.3

**GREAT COMBINATION OF OFFENSE AND DEFENSE**
- Very good emergence and SDS tolerance for early planting
- Excellent Frogeye Leaf Spot tolerance with great standability
- Performs well across all soil types

**S43-V3X BRAND**
**NEW**  
**RM:** 4.3

**OUTSTANDING YIELDS AND SUPERIOR DROUGHT STRESS TOLERANCE**
- Maintains performance across all soil types
- Excellent choice for fine textured soils
- Outstanding Frogeye Leaf Spot tolerance with very good SDS tolerance

**S44-C7X BRAND**
**NEW**  
**RM:** 4.4

**NEW STANDARD FOR TOP YIELDS IN THE MID-SOUTH AND DELTA**
- Excellent tolerance to Frogeye Leaf Spot
- Versatile product that excels on any soil type
- Great choice for dryland or irrigated acres

**S44-E3 BRAND**
**NEW**  
**RM:** 4.4

**TOP-END YIELD WITH A DEPENDABLE DISEASE PACKAGE**
- Good standability with the Rps1k gene
- Excellent tolerance to Southern Stem Canker
- Best when placed in zone and north

**S45-J3X BRAND**
**RM:** 4.5

**EXCITING MG 4 PRODUCT WITH ROOT KNOT NEMATODE TOLERANCE**
- Excellent performance on mixed to sandy soils
- Good performance across all row spacings
- Excellent Frogeye Leaf Spot and Southern Stem Canker tolerance

**S45-K5X BRAND**
**RM:** 4.5

**TOP PERFORMANCE IN AN EXCLUDER PRODUCT**
- Great choice for the highly productive acre
- Exceeds in poorly drained, fine-textured soils
- Outstanding Southern Stem Canker and Frogeye Leaf Spot tolerance

To order, contact your NK retailer or call 1-800-258-0521 or visit NKSeeds.com
**S45-Z5XS**

**TOP PERFORMER WITH STS HERBICIDE TOLERANCE**

- Exceptional performance on mixed to sandy soils
- Very good Frogeye Leaf Spot tolerance with reliable SDS tolerance
- Perfect choice for the most productive acres

**S46-E3S**

**PROVEN YIELDS WITH STS AND CHLORIDE EXCLUDER**

- Sturdy plant type that handles stress
- Excellent choice for clay soils
- Excellent Southern Stem Canker tolerance

**S47-E3**

**BIG YIELDS WITH BROAD ADAPTABILITY**

- Stable performance across the entire M6 4 growing area
- Exceptional Southern Stem Canker tolerance
- Performs on any soil type

**S47-F6L**

**TOP-END YIELD WITH A DEPENDABLE DISEASE PACKAGE**

- Excellent performance on highly productive soils
- Grower favorite for Frogeye Leaf Spot tolerance and standability
- Excellent performance in the Mid-South and Delta

**S47-Y9X**

**ELITE PERFORMANCE WITH THE EXCLUDER GENE**

- Strong tolerance to SDS and Frogeye Leaf Spot
- Exceeds on poorly drained soils
- Rps1k gene with good field tolerance to Phythophthora Root Rot

**S49-E3**

**COMBINES PERFORMANCE AND DEPENDABILITY**

- Solid standability with proven Frogeye Leaf Spot tolerance
- Good choice for medium and fine textured soils
- Excellent Southern Stem Canker tolerance
**S49-F5X BRAND**

**NEW**

**BRED TO PRODUCE SUPERIOR YIELDS ON ANY ACRE**

- Broadly adapted with strong tolerance to Frogeye Leaf Spot
- Performs equally well on dryland or irrigated acres
- Rps1k gene with excellent tolerance to Southern Stem Canker

**Performance Rating:**
- Emergence: 9
- Standability: 7
- Phytophthora Field Tolerance: 5
- Sudden Death Syndrome: 3

**RM:** 4.9

**S49-U6LS BRAND**

**NEW**

**PERFORMANCE ON ANY ACRE**

- Medium-tall, robust plant type, with STS tolerance
- Rps1k for genetic resistance to Phytophthora Root Rot
- Excellent choice for the double-crop acre

**Performance Rating:**
- Emergence: 9
- Standability: 7
- Phytophthora Field Tolerance: 5
- Sudden Death Syndrome: 3

**RM:** 4.9

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**S50-G9XS BRAND**

**EXCEPTIONAL PERFORMANCE UNDER STRESS ENVIRONMENTS**

- Good Frogeye Leaf Spot tolerance
- STS option with strong Phytophthora Root Rot field tolerance
- Excels on heavy clay soils where plant height is needed

**Performance Rating:**
- Emergence: 9
- Standability: 7
- Phytophthora Field Tolerance: 5
- Sudden Death Syndrome: 3

**RM:** 5.0

**S51-R3XS BRAND**

**NEW**

**STS HERBICIDE TOLERANT PRODUCT WITH TREMENDOUS YIELDS**

- Great tolerance to Frogeye Leaf Spot
- Performs well regardless of soil type or drainage
- Impressive yields on both dryland and irrigated acres

**Performance Rating:**
- Emergence: 9
- Standability: 7
- Phytophthora Field Tolerance: 5
- Sudden Death Syndrome: 3

**RM:** 5.1

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**S52-Y7X BRAND**

**RELIABLE YIELDS WITH ROOT KNOT NEMATODE TOLERANCE**

- Indeterminate growth habit to maximize yield potential
- Strong performance on poorly drained soils
- Proven Southern Stem Canker and Phytophthora Root Rot field tolerance

**Performance Rating:**
- Emergence: 9
- Standability: 7
- Phytophthora Field Tolerance: 5
- Sudden Death Syndrome: 3

**RM:** 5.2

**S53-F7X BRAND**

**NEW**

**INDETERMINATE PRODUCT WITH SUPERB PERFORMANCE**

- Unique combination of proven SDS and exceptional Frogeye Leaf Spot
- Strong tolerance to Iron Deficiency Chlorosis
- Indeterminate growth habit to maximize yields on any acre

**Performance Rating:**
- Emergence: 9
- Standability: 7
- Phytophthora Field Tolerance: 5
- Sudden Death Syndrome: 3

**RM:** 5.3
The latest agronomic insights to help maximize yield potential.

Visit KnowMoreGrowMore.com to see what’s happening throughout the country, for support with crop management decisions, and to sign up for agronomic email updates.
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<td>Bt11, TC1507</td>
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<td>Agrisure Viptera® 3330 E-Z Refuge®</td>
<td>MIR162, MON89034</td>
<td>Bt11, MON89034</td>
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<tr>
<td>Agrisure® 3000GT</td>
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<tr>
<td>Agrisure Viptera® 3111</td>
<td>MIR162</td>
<td>Bt11</td>
</tr>
<tr>
<td>Agrisure® 3122 E-Z Refuge®</td>
<td>TC1507</td>
<td>Bt11, TC1507</td>
</tr>
<tr>
<td>Agrisure Duracade® 5122 E-Z Refuge®</td>
<td>TC1507</td>
<td>Bt11, TC1507</td>
</tr>
<tr>
<td>Agrisure Duracade® 5222 E-Z Refuge®</td>
<td>MIR162, TC1507</td>
<td>Bt11, TC1507</td>
</tr>
</tbody>
</table>

* Refer to Insect Trait Event Brand Names.
** Refer to Stewardship page for complete details.

For more information check www.ncga.com/for-farmers/know-before-you-grow/trait-table

AgrisureTraits.com

To order, contact your NK retailer or call 1-800-258-0521 or visit NKSeeds.com
Hybrid & Variety Description Keys

NK SOYBEANS

NK CORN

ENOGEN CORN

RM: Specific relative maturity for this hybrid series.

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 2020.

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

Trait versions available in this hybrid series.

RM: Specific relative maturity for this hybrid series.

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

Trait versions available in this hybrid series.

RM: Specific relative maturity for this variety.

A “S” indicates NK soybeans

B Indicates maturity group (00-7)

C Indicates within group maturity rating on a 0-9 scale (0 = early, 9 = late)

D Randomly designated letter and number

E Denotes herbicide technology – E = Enlist E3; L = LibertyLink®; X = Roundup Ready 2 Xtend® technology

RM: 3.9 : Specific relative maturity for this variety.
A strong stewardship program is essential for protecting and preserving the long-term value of insect-protected trait technology. Syngenta provides responsible agriculture programs and information regarding the safe handling and storage of product.

**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 Syngenta stewardship team: 1-877-476-2676. 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, refer to the industry CRW BMPs found on the NCGA website at NCGA.com/CornRootworm or SyngentaStewardship.com

**Grain Marketing**
Growers 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.

Agrisure Duracade growers needing grain marketing assistance may contact Gavilon Grain, LLC at 844-559-1500 to identify an accepting location near you or visit syngenta-us.com/agrisure/duracade-stewardship.aspx for more information.

**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.

<table>
<thead>
<tr>
<th>TRAIT STACK*</th>
<th>MINIMUM REFUGE REQUIREMENT CORN-GROWING REGION</th>
<th>MINIMUM REFUGE REQUIREMENT COTTON-GROWING REGION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agrisure3000GT</td>
<td>20%</td>
<td>50%</td>
</tr>
<tr>
<td>Agrisure3010</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AgrisureArtesian™</td>
<td>20% supplemental refuge</td>
<td></td>
</tr>
<tr>
<td>AgrisureViptera™</td>
<td>20%</td>
<td></td>
</tr>
<tr>
<td>AgrisureT10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AgrisureT10/20</td>
<td></td>
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</tr>
<tr>
<td>AgrisureT40/22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AgrisureTricide™</td>
<td>E-Z Refuge — no additional refuge required</td>
<td>20% supplemental refuge</td>
</tr>
<tr>
<td>AgrisureDuracade™</td>
<td>20% supplement required</td>
<td></td>
</tr>
<tr>
<td>AgrisureDuracade™</td>
<td>20% supplement required</td>
<td></td>
</tr>
</tbody>
</table>

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.

The Agrisure® 3010 trait stack was previously sold as Agrisure® GT/CB/LL.

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.
Corn crop planning

Field Name:
Hybrid:
Population:
Management Considerations:

Soybean crop planning

Field Name:
Variety:
Population:
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: 

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Delivering technology, genetics and value:

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Product performance assumes disease presence.

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