GoldenHarvest® Corn

syngenta®

2014 SEEDGUIDE

CORN | SOYBEANS | ALFALFA | WHEAT

HEARTLAND SOUTH

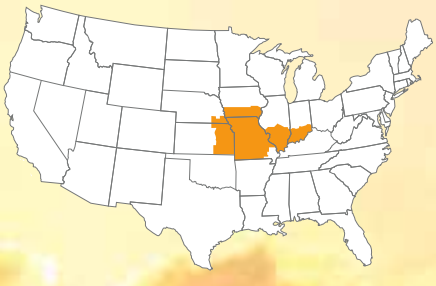

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TABLE OF CONTENTS

SYNGENTA

2 Welcome Letter

3 Syngenta Story

CORN

5 Corn Story

9 Trait Index

10 Characteristics Chart

12 Hybrid Descriptions

18 Silage Characteristics Chart

19 Agronomy Chart

SOYBEANS

20 Soybean Story

23 Characteristics Chart

24 Variety Descriptions

ALFALFA

30 Alfalfa Story

31 Characteristics Chart

32 Variety Descriptions

WHEAT

34 Wheat Story

36 Characteristics Chart

37 Variety Descriptions

STEWARDSHIP

38 Stewardship

More Choices—Tailored Solutions

Welcome to the 2014 Edition of our Seed Guide

Bringing plant potential to life is the mission of Syngenta—and seeing plants perform in growers' fields is our No. 1 goal. Through innovative and integrated solutions, Syngenta is determined to provide the tools farmers need to increase productivity and grow more from less to meet the demands of a growing population.

Our 2014 portfolio is a direct result of our commitment to advancing agriculture and industry-leading technology. Every day, we invest $3.4 million on new research and development activities to make these advancements possible.

Through a combination of science and cutting-edge technology, Syngenta develops innovative solutions that help meet the world's changing needs for food, feed, fuel and fiber. Our researchers work with one of the most diverse bases of genetics in the industry, a diversity that is essential to breeding high-performing seeds for optimal yield performance. The extensive Syngenta product portfolio supplies farmers with more choices and better solutions for their fields. A few of our current and upcoming technologies will help bring tailored solutions to meet local needs:

- Agrisure Duracade™ trait—unique mode of action for control of corn rootworm
- Agrisure Artesian® technology—offering up to 15%* higher yield on moisture-stressed acres
- New Clariva™ Complete Beans nematicide/insecticide/fungicide – an on-seed application of separately registered products that adds a revolutionary nematicide to the market-leading, broad-spectrum seed treatment of CruiserMaxx® Beans with Vibrance® insecticide/fungicide

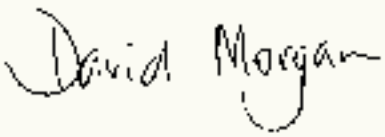
Our Syngenta Seed Advisors are putting solutions into action by understanding our grower needs. As we move into the 2014 season, we have more tools than ever to help farmers produce higher, more profitable yields. It starts with our breakout genetics and breakthrough traits in our Golden Harvest® corn brand.

Syngenta is the only company with the depth and breadth of know-how, products and complete integrated solutions to help farmers grow more from less and improve their business. We believe that our high-quality seeds and traits, effective crop protection products, agronomic expertise and knowledge set us apart.

Please take a few minutes to see this year's product lineup and how Syngenta can impact your crops.

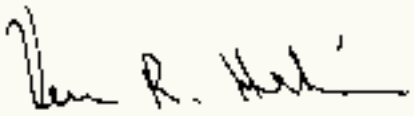
Regards,

David Morgan



President, Syngenta Seeds, Inc.
Syngenta Regional Director-North America

Vern Hawkins



President, Syngenta Crop Protection, LLC
Syngenta Regional Director-North America

*Syngenta research trials, 2008-2011

Syngenta: Bringing plant potential to life

Our goal at Syngenta is to be the leading global provider of innovative solutions and brands to growers and the food and feed chain. We believe in delivering better food for a better world through outstanding crop solutions.

Syngenta has the unique ability to address today's farming challenges with fully integrated, crop-specific offers. We are putting ourselves in growers' shoes—understanding challenges and thinking beyond individual product recommendations. We are innovating and collaborating with our channel partners to deliver a differentiated offer that competitors cannot match. With an unrivaled broad, dynamic product portfolio, we are constantly adapting to anticipate and meet the needs of farmers of the future.

Innovation & Collaboration

Syngenta and its collaborators use a combination of technologies—including genetic modification, conventional breeding, genetic blueprinting and marker-assisted breeding—to develop plants that can further increase yields, make industrial processes more efficient, offer better nutrition and provide healthier food for consumers.

Innovation is the lifeblood of Syngenta. Every day, Syngenta invests more than $3.4 million, more than $1.25 billion each year in search of new and innovative crop solutions. Syngenta believes that farmers can produce enough to meet the world's growing needs and safeguard the only planet we have for future generations—if we take a system-wide approach that links technology, land and people.

Syngenta researchers use a combination of science and cutting-edge technology to develop solutions that help meet the changing needs for food, feed, fuel and fiber. Today, crop biotechnology developed at Syngenta is delivering on the promise of better performing crops to help farmers grow more from less. Tomorrow, our scientific advances will deliver novel technologies to help sustainably meet the needs of a growing world.

Committed to Helping Farmers Grow More Corn

Each planting season brings with it renewed optimism and opportunities to grow more corn. We believe that our 2014 hybrid lineup is the finest Syngenta has ever brought to the market.

Choosing the right hybrid for each field is one of the most fundamental and important decisions a grower can make. To aid the decision process, we commit to providing growers with the best hybrids developed through new combinations and more marker technology from one of the most diverse and broad genetic pools in the industry.

We protect the genetics in each seed using a series of breakthrough technology offerings. In the past five years alone, Syngenta has introduced four proprietary traits to build on the already robust line-up of Agrisure® traits. Our hybrids containing Agrisure traits feature best-in-class insect control and exceptional herbicide tolerance while several hybrids contain traits that also promote water optimization and overall crop performance.

In addition, the unmatched performance of Syngenta seed treatment and crop protection products helps combat yield-robbing weeds, diseases and insects all season long. Combining our corn portfolio assets with sound agronomic guidance enables us to make recommendations tailored to every field. While these insights give growers added value and convenience, they also help them attain greater yield potential.

1
Seed Acceleration

2
Game-Changing Innovation

3
Whole Crop Approach

1 Seed Acceleration

Our ambitious advancements in genetics provide the foundation for our high-performing hybrids.

Because genetics are to the seed what the chassis is to the truck—they drive performance—Syngenta continues to make significant investments to enhance our breeding program. We started by combining the genetic portfolios of our legacy seed brands and employed our leading technologies to create a robust, unified, yet diverse germplasm. Our reconstructed, advanced genetics platform is the foundation for the high-performing hybrids we're offering growers in 2014.

2 Game-Changing Innovation

Syngenta is a technology leader in trait innovation, with a robust pipeline that has brought forth breakthrough water optimization technology and insect traits with the highest efficacy in the industry.

Agrisure Artesian™

- **Breakthrough Water Optimization:** Agrisure Artesian® technology is offered in top-yielding hybrids and provides added protection against moisture stress, curbing inconsistency in crop production and serving as an effective risk management tool. Agrisure Artesian technology, which maximizes yield when it rains and increases yield up to 15 percent when it doesn't, is offered in top-yielding hybrids across the Corn Belt and protects against crop, emotional and financial stress caused by dry spells or widespread drought.

Agrisure Viptera™ Agrisure Duracade™

- **Best-in-class Insect Control:** Hybrids with the Agrisure Viptera® trait offer breakthrough above-ground insect control. For unmatched corn rootworm control, hybrids with the Agrisure Duracade™ trait feature a new mode of action to control corn rootworm. In 2014, growers will have access to hybrids containing both traits.

Agrisure E-Z Refuge™

- **Integrated, single-bag refuge:** Agrisure E-Z Refuge™ products offer integrated, single-bag refuge solutions, featuring a 5 percent blended refuge in the bag. These refuge solutions offer corn growers a convenient way to meet refuge requirements as specified by the EPA to help manage against the development of insect resistance.

3

Whole Crop Approach

Delivering increased yield potential and value through integrated solutions.

Beyond genetics and traits are products and solutions that help growers protect and enhance their crop investments.

- **Intelligent, integrated irrigation**: Because water optimization is more than one trait, one technology and even one company, Syngenta is partnering with an industry leader in irrigation to help farmers grow more corn with less water. The Water+™ Intelligent Irrigation Platform gives irrigated corn growers unprecedented control of their production—combining and integrating a sophisticated series of product and technology components to comprise an entire agronomic system that can be easily implemented and customized for each field.

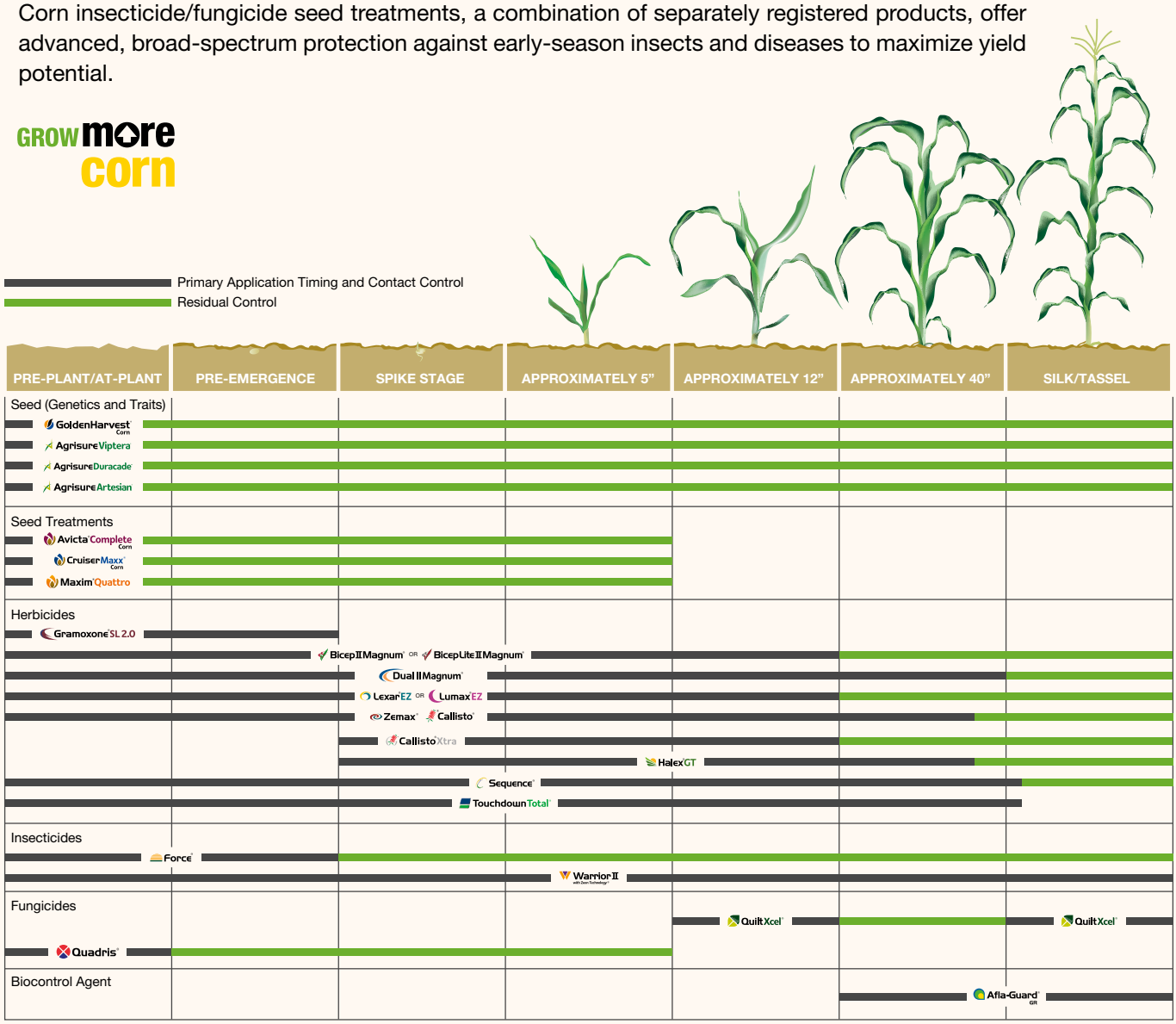
Halex GT QuiltXcel LexarEZ LumaxEZ Force

- **Market-leading crop protection:** Syngenta features a diverse herbicide portfolio to meet growers' weed control needs, from Halex® GT herbicide for burndown and unmatched residual control, to Lexar® EZ and Lumax® EZ herbicides for early-season weed control. Syngenta also provides tools to battle environmental stresses, diseases and insects to help maximize yield. Quilt Xcel® fungicide not only provides long-lasting, preventive and curative disease control, it also protects plants on the inside from a range of environmental stresses that can happen outside. In the battle against insects, Force® and Warrior II with Zeon Technology® insecticides deliver season-long control of the most damaging corn pests.

Avicta® Complete Corn CruiserMaxx® Corn

- **Best-in-class seed care:** Avicta® Complete Corn nematicide/insecticide/fungicide and CruiserMaxx® Corn insecticide/fungicide seed treatments, a combination of separately registered products, offer advanced, broad-spectrum protection against early-season insects and diseases to maximize yield potential.

GROW more corn



Trait index

Agrisure Duracade 5222

Trait stack combines the revolutionary Agrisure Duracade and Agrisure Viptera traits to provide corn growers with breakthrough control of corn rootworm and the multi-pest complex. Trait stack features dual modes of action against corn rootworm, corn borer and lepidopteran pests with glyphosate tolerance.

Brand	RM	PG
G99Z33-5222A*	92	12
G12Z02-5222	112	10

Agrisure Duracade 5122

Trait stack delivers unmatched corn rootworm control by providing corn growers with a new mode of action against corn rootworm. Trait stack features dual modes of action against corn rootworm and corn borer, broad lepidopteran control and glyphosate tolerance.

Brand	RM	PG
G07V88-5122	107	13
G09M49-5122	109	14
G14H66-5122A*	114	16

Agrisure 3122 E-Z Refuge

Integrated, single-bag refuge trait stack offers two modes of action against corn borer and corn rootworm.

Brand	RM	PG
G05T82-3122	105	10
G10D98-3122	110	14
G11U58-3122	111	15
G13U53-3122	113	16

Agrisure Viptera 3220 E-Z Refuge

Integrated, single-bag refuge trait stack provides corn growers with multiple modes of action against European corn borer and broad lepidopteran pests for breakthrough, above-ground insect control.

Brand	RM	PG
G13S06-3220	113	16
G18H82-3220	118	17

Agrisure Viptera 3111

Trait stack provides corn growers with unsurpassed multi-pest control of 14 above- and below-ground pests.

Brand	RM	PG
G98Y58-3111	98	10
G05H30-3111	105	10
G07B39-3111A*	107	12
G07F23-3111	107	12
G09H57-3111	109	13
G11T28-3111	111	14
G11U58-3111	111	15
G13L67-3111	113	10
G13S06-3111	113	16
G15P07-3111	115	16
G15Z99-3111	115	10
G16K01-3111	116	17
G18H82-3111	118	17

Agrisure Viptera 3110

Trait stack provides unparalleled control of above-ground insects for areas where corn rootworm management is not a primary concern.

Brand	RM	PG
G08X83-3110	108	13
G10S30-3110	110	14

Agrisure 3000GT

A triple stack, Agrisure 3000GT provides glyphosate and glufosinate tolerance while protecting corn from corn borer and corn rootworm.

Brand	RM	PG
G01P52-3011A*	101	12
G03J49-3000GT	103	10
G05T82-3000GT	105	10
G06K93-3000GT	106	10
G07V88-3000GT	107	13
G09E98-3000GT	109	13
G12H71-3000GT	112	15
G12J11-3011A*	112	15
G12Q55-3000GT	112	15
G13G41-3000GT	113	16
G14R38-3000GT	114	16
G15P07-3000GT	115	16
G15Z99-3000GT	115	10
G18D87-3000GT	118	17

Agrisure GT

Trait provides excellent tolerance to glyphosate-based herbicides.

Brand	RM	PG
G01P52-GTA*	101	12
G05T82-GT	105	10
G06K93-GT	106	10
G07V88-GT	107	13
G09E98-GT	109	13
G11U58-GT	111	15
G12J11-GTA*	112	15
G13S06-GT	113	16
G14H66-GTA*	114	16
G14R38-GT	114	16
G16K01-GT	116	17
G18H82-GT	118	17

Agrisure Artesian

Technology maximizes yield when it rains and increases yield up to 15% when it doesn't. Note: Since hybrids with Agrisure Artesian technology contain scientifically selected genes for water optimization, the performance of these hybrids raises the bar for drought tolerance ratings vs. standard hybrids. Agrisure Artesian technology is available with the other traits and trait stacks described in this index.

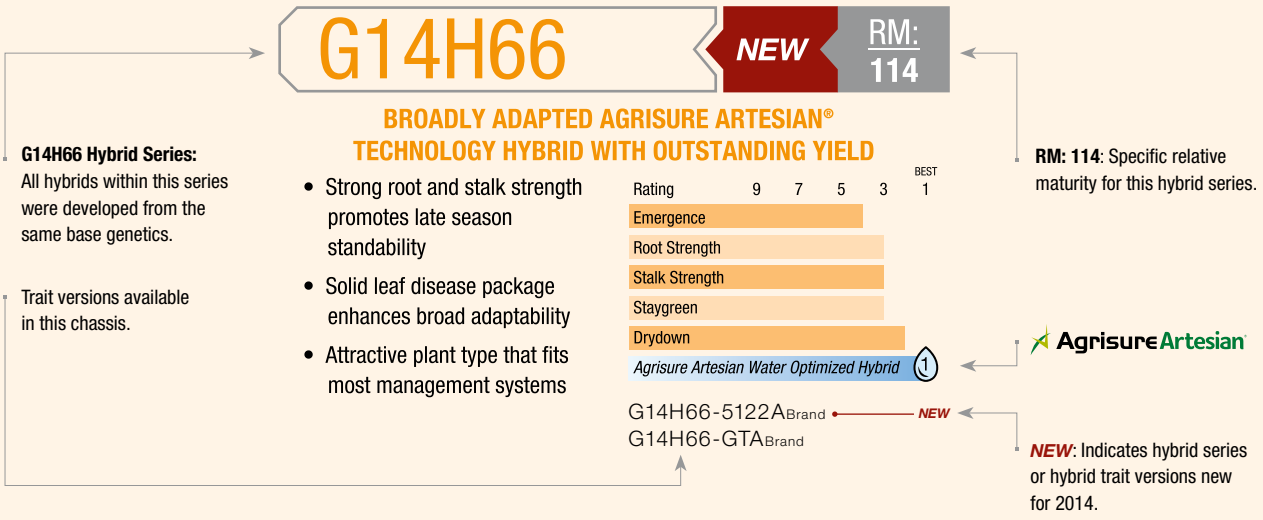
Brand	RM	PG
G99Z33-5222A	92	12
G01P52-3011A	101	12
G01P52-GTA	101	12
G07B39-3111A	107	12
G12J11-3011A	112	15
G12J11-GTA	112	15
G14H66-GTA	114	16
G14H66-5122A	114	16

* Trait stack will be available in combination with the Agrisure Artesian water optimization technology.

LIBERTY LINK®

PRODUCT	TRAIT OFFERS							
Golden Harvest Hybrid Series	AgrisureDuracade 5222	AgrisureDuracade 5122	Agrisure3122 E-Z Refuge	AgrisureViptera 3220 E-Z Refuge	AgrisureViptera 3111	AgrisureViptera 3110	Agrisure3000GT	AgrisureGT
G98Y58 NEW					3111 NEW			
G99Z33* NEW	5222A NEW							
G01P52*							3011A	GTA NEW
G03J49							3000GT	
G05H30					3111			
G05T82			3122				3000GT	GT
G06K93							3000GT	GT
G07B39* NEW					3111A NEW			
G07F23 NEW					3111 NEW			
G07V88		5122 NEW					3000GT	GT
G08X83 NEW						3110 NEW		
G09E98							3000GT	GT
G09H57 NEW					3111 NEW			
G09M49 NEW		5122 NEW						
G10D98 NEW			3122 NEW					
G10S30 NEW						3110 NEW		
G11T28					3111			
G11U58			3122		3111			GT
G12H71							3000GT	
G12J11*							3011A	GTA NEW
G12Q55							3000GT	
G12Z02	5222 NEW							
G13L67					3111			
G13S06				3220 NEW	3111			GT
G13U53 NEW			3122 NEW					
G13G41							3000GT	
G14H66* NEW		5122A NEW						GTA NEW
G14R38							3000GT	GT
G15P07					3111		3000GT	
G15Z99					3111 NEW		3000GT	
G16K01					3111			GT
G18D87 NEW							3000GT NEW	
G18H82				3220	3111			GT

Description Key



MATURITY INFORMATION			AGRONOMIC CHARACTERISTICS													DISEASE TOLERANCE (1-9)						PRODUCT
Relative Maturity (RM)	Silk RM	Black Layer RM	Emergence	Seedling Vigor	Plant Height	Ear Height	Root Strength	Stalk Strength	Drought	Green Snap	Staygreen	Drydown	Test Weight	Ear Flex	High pH	Gray Leaf Spot	Northern Corn Leaf Blight	Goss's Wilt	Eyespot	Anthracnose Stalk Rot	Common Rust	Golden Harvest Hybrid Series
98	99	99	4	4	4	4	3	3	4	3	4	2	4	SF	2	6	2	7	2	3	-	G98Y58 NEW
99	100	98	4	4	4	4	4	3	①	3	4	2	4	SF	3	3	3	5	2	3	-	G99Z33* NEW
101	103	101	3	2	3	3	4	2	①	3	2	4	3	SF	2	4	4	3	3	3	-	G01P52*
103	105	105	3	2	2	3	4	5	2	3	3	2	4	SF	2	4	6	2	4	5	3	G03J49
105	107	105	2	3	4	4	2	4	2	3	6	4	5	SF	1	3	6	4	-	6	-	G05H30
105	105	105	2	2	2	3	5	2	2	4	2	3	4	SF	2	4	5	3	4	2	3	G05T82
106	108	104	3	3	3	3	3	3	2	4	4	4	3	F	2	5	4	3	4	4	4	G06K93
107	107	109	3	3	3	4	5	3	①	4	5	4	4	SF	3	6	3	4	-	4	-	G07B39* NEW
107	107	109	4	4	5	5	3	2	3	3	4	2	3	SF	4	4	2	6	2	-	-	G07F23 NEW
107	107	109	3	3	3	3	5	3	2	3	5	2	5	SF	3	5	3	3	5	4	4	G07V88
108	107	109	4	4	2	3	2	3	4	3	2	3	2	SD	3	3	-	2	-	-	-	G08X83 NEW
109	110	108	3	2	2	3	5	2	2	4	2	4	2	SD	3	3	3	5	6	2	3	G09E98
109	108	110	2	2	6	5	3	4	5	3	4	3	3	SF	4	4	2	6	2	-	-	G09H57 NEW
109	110	109	3	3	4	4	2	3	3	3	3	3	4	SF	2	4	2	6	2	-	-	G09M49 NEW
110	111	110	4	4	3	3	3	4	4	5	5	4	4	F	3	7	-	4	-	-	-	G10D98 NEW
110	111	109	3	3	6	5	4	2	4	5	5	4	4	SF	3	5	2	6	2	-	-	G10S30 NEW
111	113	113	4	3	3	3	3	3	4	5	3	4	1	SF	4	3	5	5	-	5	-	G11T28
111	111	110	4	4	6	6	2	3	2	3	5	4	4	SF	3	7	3	4	-	4	-	G11U58
112	112	112	3	3	2	3	3	4	3	3	3	3	3	SF	3	4	2	4	-	4	-	G12H71
112	112	112	3	2	3	2	4	4	①	3	3	3	2	SF	4	4	3	3	-	-	-	G12J11*
112	112	112	3	3	4	4	3	3	2	4	3	3	5	SF	3	5	4	3	-	4	3	G12Q55
112	110	112	4	4	6	5	2	2	3	3	4	3	4	D	2	4	4	3	4	3	-	G12Z02
113	113	113	3	4	2	3	3	4	4	4	4	3	3	SF	2	5	4	2	-	4	-	G13L67
113	112	113	3	3	4	4	5	3	2	5	3	3	4	F	1	2	3	2	-	5	5	G13S06
113	112	113	2	2	6	5	3	3	3	4	3	3	5	SF	3	4	2	7	-	-	-	G13U53 NEW
113	113	113	2	2	3	2	3	4	3	2	3	3	3	SD	2	2	3	5	-	-	-	G13G41
114	114	116	4	4	4	4	3	3	①	4	3	2	3	SF	3	3	2	3	-	-	-	G14H66* NEW
114	113	114	3	3	3	2	3	3	3	3	4	3	4	SD	3	5	4	4	-	4	3	G14R38
115	117	116	4	3	3	3	4	3	2	3	2	2	6	SF	1	2	4	2	5	3	-	G15P07
115	117	115	4	3	3	2	4	4	4	3	2	5	1	SD	3	2	2	3	-	-	-	G15Z99
116	116	118	4	3	4	5	5	3	2	3	3	2	4	F	4	5	4	3	5	3	-	G16K01
118	117	118	3	3	4	5	4	4	4	3	2	3	3	SF	2	3	3	4	-	-	-	G18D87 NEW
118	118	118	4	4	2	3	4	3	4	5	5	3	3	SF	2	6	7	5	-	3	-	G18H82

Corn Chart Key

1 = BEST
9 = WORST
- = NOT AVAILABLE

Plant Height
1 = Tall
9 = Short

Ear Height
1 = High
9 = Low

Test Weight
1 = High
9 = Low

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

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

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.

Drought
① = Agrisure Artesian water optimized hybrid – Maximize yield when it rains, increase yield up to 15% when it doesn't.

* Trait stack will be available in combination with the Agrisure Artesian water optimization technology.

Note: Disease & 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 Agronomy Research.

LIBERTY LINK®

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.

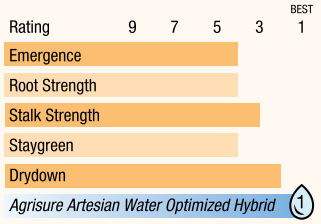
G99Z33

NEW

RM: 99

AGRISURE ARTESIAN® TECHNOLOGY DELIVERS STRONG DROUGHT TOLERANCE

- Top-end yield potential for strong performance in all yield environments
- Fast drydown allows for an early harvest
- Semi-flex ear type for adaptation to various planting populations



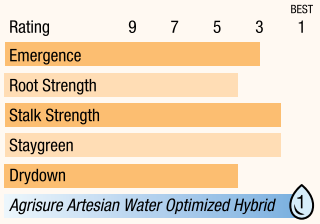
G99Z33-5222A Brand — NEW

G01P52

RM: 101

EXCITING YIELD LEVELS PAIRED WITH AGRISURE ARTESIAN® TECHNOLOGY

- Well suited to continuous corn environments
- Excellent performance in high yield environments
- Dependable stalks with superior late-season plant health



G01P52-3011A Brand
G01P52-GTA Brand — NEW

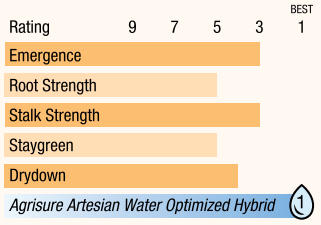
G07B39

NEW

RM: 107

EXCELLENT DROUGHT TOLERANCE POWERED BY AGRISURE ARTESIAN® TECHNOLOGY

- Top-end yield potential makes this a great choice for highly managed acres
- Strong emergence and seedling vigor allows for early planting
- Responds well to fungicide applications



G07B39-3111A Brand — NEW

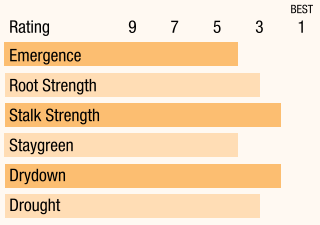
G07F23

NEW

RM: 107

BROADLY ADAPTED HYBRID WITH CONSISTENT PERFORMANCE ACROSS YIELD ENVIRONMENTS

- Moderate plant stature with very good root strength
- Excellent stalk strength for late-season standability
- Avoid continuous corn acres where Goss's Wilt is a concern



G07F23-3111 Brand — NEW

Agrisure Nomenclature

[Agrisure] [Duracade] [5] [2 2 2] [A]

Master Brand | Suffix | Technology Series | Broad Lepidopteran Trait | Corn Borer Trait | Corn Rootworm Trait | Agrisure Artesian Technology

AgrisureDuracade™ 5222A

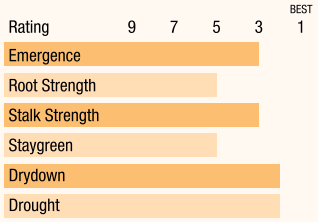
- The brand **suffix** changes as new technologies are introduced
- The 5 **technology series** represents next-generation corn rootworm control
- The last three numerical identifiers represent the number of **modes of action** in each hybrid
  - Note: The naming system does not apply to Agrisure 3000GT
- The letter **A** indicates the trait stack includes Agrisure Artesian technology

G07V88

RM: 107

ELITE GENETICS WITH SOLID AGRONOMICS FOR SUPERIOR YIELD PERFORMANCE

- Broad adaptability with very good drought tolerance
- Good late-season plant intactness
- Ear flex makes this hybrid a good choice for all management practices



G07V88-5122Brand — NEW
G07V88-3000GTBrand
G07V88-GTBrand

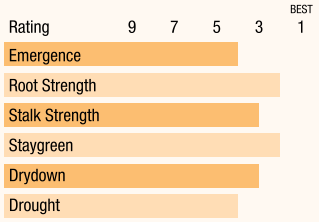
G08X83

NEW

RM: 108

ATTRACTIVE, ROBUST PLANT TYPE WITH EXCELLENT GRAIN QUALITY

- Outstanding staygreen and late season plant health
- Superb root strength and solid stalk strength for season-long standability
- Excellent choice for heavy Goss's Wilt environments



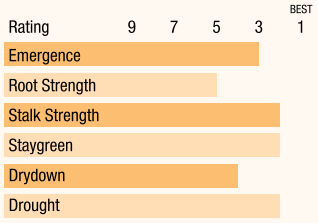
G08X83-3110Brand — NEW

G09E98

RM: 109

HIGH-YIELDING GENETICS THAT PERFORM ON YOUR BEST ACRES

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



G09E98-3000GTBrand
G09E98-GTBrand

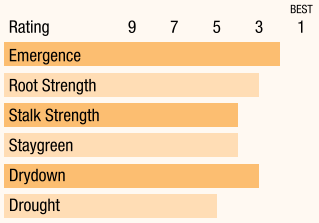
G09H57

NEW

RM: 109

EXCEPTIONAL TOP-END YIELD POTENTIAL FOR HIGH YIELD PRODUCTION SYSTEMS

- Superb emergence and seedling vigor for early planting
- Shorter plant stature with strong early root strength
- Best performance when used as a mid- to full-season hybrid



G09H57-3111Brand — NEW

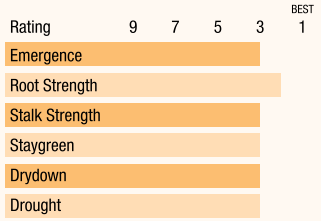
Notes

G09M49

NEW | RM: 109

OUTSTANDING AGRONOMIC PACKAGE SUPPORTS CONSISTENT PERFORMANCE

- Excellent root strength and solid stalk strength for season-long standability
- Superb tolerance to Northern Corn Leaf Blight
- Avoid fields with a history of heavy Goss's Wilt



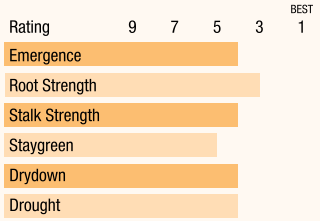
G09M49-5122 Brand — NEW

G10D98

NEW | RM: 110

EXCITING TOP-END YIELD POTENTIAL ON HIGHLY PRODUCTIVE SOIL TYPES

- Tremendous ear flex makes this a good option for any population
- Above average emergence and seedling vigor
- Best performance when treated with fungicide applications



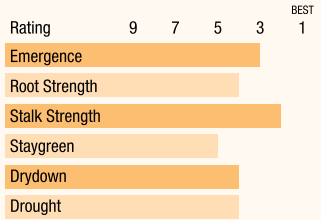
G10D98-3122 Brand — NEW

G10S30

NEW | RM: 110

OUTSTANDING YIELD PERFORMANCE

- Excels in highly productive management systems
- Moderate plant type with superb stalk strength
- Dependable emergence and seedling vigor make this a good option for early planting



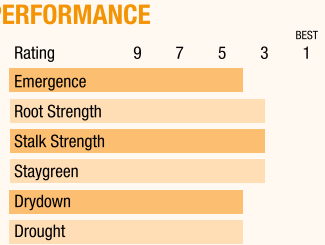
G10S30-3110 Brand — NEW

G11T28

RM: 111

STRONG AGRONOMIC PACKAGE CONTRIBUTES TO DEPENDABLE PERFORMANCE

- Outstanding test weight with food grade quality grain
- Very good root and stalk strength
- Best performance when placed on highly productive soils



G11T28-3111 Brand

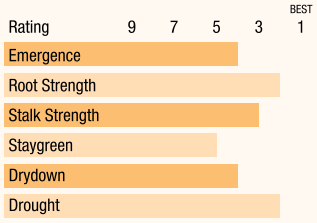
Notes

G11U58

RM: 111

WIDELY ADAPTED WITH CONSISTENT PERFORMANCE OVER MANY ENVIRONMENTS

- Exceptional standability provides flexible harvest schedule
- Superb drought tolerance and ear flex support high yields
- Yields well in Gray Leaf Spot environments, despite below average disease tolerance rating



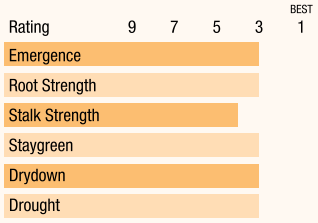
G11U58-3122Brand
G11U58-3111Brand
G11U58-GTBrand

G12H71

RM: 112

SOLID AGRONOMICS WITH BROAD ADAPTABILITY ACROSS SOIL TYPES

- Best performance when treated with fungicide applications
- Solid root and stalk strength for season-long standability
- Avoid acres with high pH soils



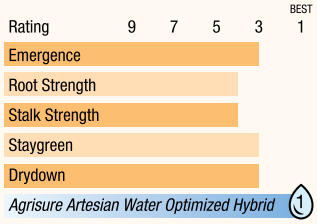
G12H71-3000GTBrand

G12J11

RM: 112

VERY GOOD TOP-END YIELD PERFORMANCE FOR THE CENTRAL AND EASTERN CORN BELT

- Strong water optimization through Agrisure Artesian® technology
- Strong emergence and seedling vigor for early planting
- Solid leaf disease package



G12J11-3011ABrand
G12J11-GTABrand

G12Q55

RM: 112

YIELD STABILITY UNDER HEAT AND MOISTURE STRESS

- Well adapted to all yield environments
- Moderate ear flex for plant population flexibility
- Good emergence and early vigor

G12Q55-3000GTBrand

Robert Kaufman
Griffin, KS

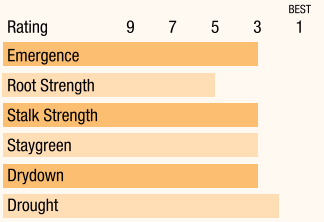
"I planted corn hybrids containing the Agrisure Viptera trait and competitive hybrids without Agrisure Viptera. The corn without Agrisure Viptera had aflatoxin levels around 300 ppb while the corn with Agrisure Viptera had less than 30 ppb, which is hardly anything. As far as I'm concerned, you can hardly afford to be without it."

G13S06

RM: 113

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



G13S06-3220 Brand — NEW
G13S06-3111 Brand
G13S06-GT Brand

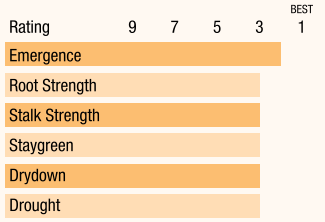
G13U53

NEW

RM: 113

STRONG AGRONOMIC PACKAGE PROMOTES CONSISTENT YIELD PERFORMANCE

- Shorter plant stature with dependable root and stalk strength
- Superb emergence and seedling vigor
- Consistent performance across all soil types and yield environments



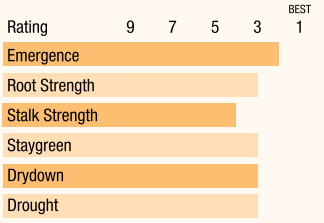
G13U53-3122 Brand — NEW

G13G41

RM: 113

VERY GOOD TOP-END YIELD WITH BROAD ADAPTATION

- Superior Gray Leaf Spot tolerance for tough disease environments
- Very good root strength with above average stalk strength
- Excellent emergence and seedling vigor for early planting and no-till environments



G13G41-3000GT Brand

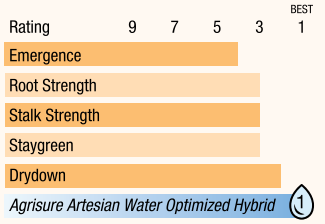
G14H66

NEW

RM: 114

BROADLY ADAPTED AGRISURE ARTESIAN® TECHNOLOGY HYBRID WITH OUTSTANDING YIELD

- Strong root and stalk strength promotes late season standability
- Solid leaf disease package enhances broad adaptability
- Attractive plant type that fits most management systems



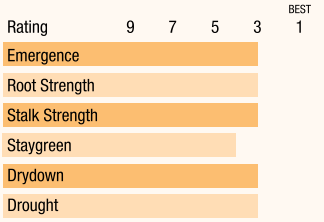
G14H66-5122A Brand — NEW
G14H66-GTA Brand — NEW

G14R38

RM: 114

STRONG YIELD PERFORMANCE IN AN EXCELLENT AGRONOMIC PACKAGE

- Strong emergence and seedling vigor
- Very good root and stalk strength
- Excellent choice for continuous corn acres



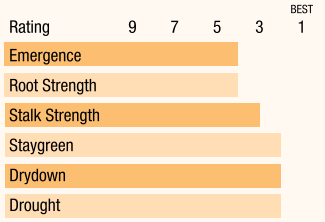
G14R38-3000GT Brand
G14R38-GT Brand

G15P07

RM: 115

BROADLY ADAPTED HYBRID WITH OUTSTANDING YIELD POTENTIAL AND STAYGREEN

- Very good late-season standability
- Excellent Gray Leaf Spot tolerance
- Well adapted to drought-prone soils



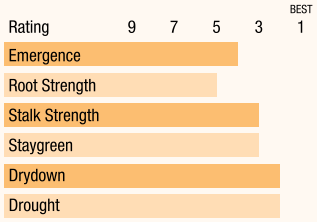
G15P07-3111 Brand
G15P07-3000GT Brand

G16K01

RM: 116

BROADLY ADAPTED PRODUCT WITH SUPERIOR YIELD POTENTIAL

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



G16K01-3111Brand
G16K01-GTBrand

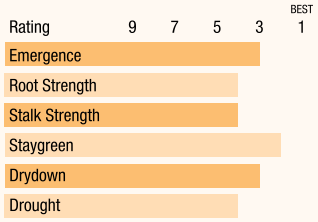
G18D87

NEW

RM: 118

BROADLY ADAPTED FULL-SEASON HYBRID 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



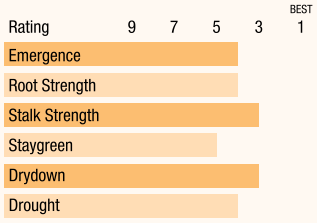
G18D87-3000GTBrand — NEW

G18H82

RM: 118

FULL SEASON YIELD LEADER WITH HIGH TOP-END YIELDS

- Solid agronomic package with excellent harvestability
- Best placed on highly productive soils
- Use moderate planting rates for best performance



G18H82-3220Brand
G18H82-3111Brand
G18H82-GTBrand

Notes

Corn Silage Hybrid Selection

The following table provides silage quality and yield scores for selected hybrids based on actual tonnage and silage analysis values, and represents relative differences among hybrids of a similar maturity.

	MATURITY INFO		AGRONOMIC CHARACTERISTICS						DISEASE TOLERANCE		AGRONOMY RESEARCH RATINGS									
Hybrid Series	Relative Maturity (RM)	Silk RM	Emergence	Root Strength	Drought	Plant Height	Ear Height	Staygreen	Gray Leaf Spot	Goss's Wilt	Yield (Ton/A)	CP (% of DM)	NDF Dig. 48 hr (%)	Starch (% of DM)	TDN (% of DM)	NEL (Mcal/lb)	Milk (lbs/Ton)	Milk (lbs/A)	Beef (lbs/Ton)	Beef (lbs/A)
G01P52*	101	103	3	4	1	3	3	2	4	3	★	★	●	★	★	★	★	★	★	●
G03J49	103	105	3	4	2	2	3	3	4	2	▼	✖	●	★	●	★	●	▼	●	▼
G05T82	105	105	2	5	2	2	3	2	4	3	●	✖	●	★	▼	●	●	●	▼	▼
G05H30	105	107	2	2	2	4	4	6	3	4	★	●	●	●	▼	●	●	●	●	●
G06K93	106	108	3	3	2	3	3	4	5	3	▼	✖	▼	★	▼	▼	▼	▼	▼	▼
G07B39*	107	107	3	5	1	3	4	5	6	4	●	●	▼	▼	●	●	●	●	●	●
G07V88	107	107	3	5	2	3	3	5	5	3	●	▼	●	★	★	★	★	●	★	●
G09E98	109	110	3	5	2	2	3	2	3	5	★	●	●	★	●	●	●	★	●	★
G11U58	111	111	4	2	2	6	6	5	7	4	●	★	●	▼	●	●	★	▼	●	●
G11T28	111	113	4	3	4	3	3	3	3	5	★	●	●	●	●	●	●	★	●	★
G12Z02	112	110	4	2	3	6	5	4	4	3	▼	★	●	▼	★	●	●	▼	●	▼
G12H71	112	112	3	3	3	2	3	3	4	4	★	▼	●	★	▼	●	▼	●	▼	●
G12Q55	112	112	3	3	2	4	4	3	5	3	▼	●	●	★	●	●	●	●	●	●
G13N18	113	112	3	5	3	4	5	5	6	4	▼	●	●	●	●	●	●	▼	●	▼
G13S06	113	112	3	5	2	4	4	3	2	2	●	●	▼	●	●	●	●	▼	●	▼
G13L67	113	113	3	3	4	2	3	4	5	2	★	●	●	★	●	●	●	●	●	★
G14R38	114	113	3	3	3	3	2	4	5	4	▼	●	●	●	★	★	★	●	★	●
G15P07	115	117	4	4	2	3	3	2	2	2	★	▼	★	●	●	●	●	●	●	●
G16K01	116	116	4	5	2	4	5	3	5	3	●	●	●	★	★	★	★	★	★	●
G18H82	118	118	4	4	4	2	3	5	6	5	▼	●	●	✖	●	●	●	▼	●	▼

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.

Silage Chart Key

1 = BEST

9 = WORST

- = Data is not yet sufficient to establish a rating

Plant Height
1 = Tall
9 = Short

Ear Height
1 = High
9 = Low

Drought: 1 = Agrisure Artesian water optimized hybrid – Maximize yield when it rains, increase yield up to 15% when it doesn't.

Using This Chart

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

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

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

Starch: Indicates the percent content of this important feed component.

Total Digestible Nutrients (TDN): Describes the energy content of feeds as the sum of the digestibility of different nutrients.

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

Milk and Beef: Production per Ton and Acre Feed quality on a per-ton basis, and combination of yield and quality on a per-acre basis.

Ratings Key

★ Greatest opportunity to maximize performance and/or trait content relative to other hybrids in maturity group.

● Performs well and/or has very good trait content relative to other hybrids in maturity group.

▼ Performance and/or trait content is lower relative to other hybrids in maturity group.

✖ Performance and/or trait content is below desired levels relative to other hybrids in maturity group.

* Trait stack will be available in combination with the Agrisure Artesian water optimization technology.

		AGRONOMIC MANAGEMENT AND PLACEMENT TRAITS												END USE TRAITS			
		Seeding Rate					Continuous Corn		Adaptation to Soil Types/Yield Environments								
Hybrid Series	Relative Maturity (RM)	-15%	Optimal	+15%	Root Strength	Stalk Strength	Yield Retention	Agronomic Characteristics	Drought Prone	High pH	Highly Productive	Variable	Poorly Drained	Starch	Protein	Oil	Ethanol
G98Y58 NEW	98	-	-	-	3	3	-	▼	▼	●	★	●	●	-	-	-	-
G99Z33 NEW	99	-	-	-	4	3	-	●	★	▼	★	★	●	-	-	-	-
G01P52	101	●	★	★	4	2	★	★	★	●	★	★	●	★	●	✖	●
G03J49	103	★	★	▼	4	5	●	▼	★	●	★	★	★	★	✖	✖	★
G05H30	105	●	★	●	2	4	●	●	★	★	★	★	●	★	▼	✖	★
G05T82	105	▼	★	★	5	2	●	●	★	●	★	★	★	★	▼	▼	●
G06K93	106	●	★	●	3	3	●	●	★	●	▼	★	▼	★	✖	★	●
G07B39 NEW	107	●	★	●	5	3	▼	▼	★	▼	●	★	▼	-	-	-	-
G07F23 NEW	107	-	-	-	3	2	-	●	●	✖	★	★	●	-	-	-	-
G07V88	107	●	★	●	5	3	●	▼	★	▼	★	★	✖	★	▼	★	★
G08X83 NEW	108	-	-	-	2	3	-	★	●	▼	★	★	●	-	-	-	-
G09E98	109	●	★	★	5	2	●	●	★	▼	★	★	★	★	▼	▼	●
G09H57 NEW	109	-	-	-	3	4	-	●	▼	✖	★	▼	▼	-	-	-	-
G09M49 NEW	109	-	-	-	2	3	-	★	●	●	★	★	●	-	-	-	-
G10D98 NEW	110	-	-	-	3	4	-	▼	●	▼	★	●	▼	-	-	-	-
G10S30 NEW	110	-	-	-	4	2	-	▼	●	▼	★	●	●	-	-	-	-
G11T28	111	●	★	●	3	3	▼	●	▼	✖	★	●	★	★	●	▼	●
G11U58	111	★	★	●	2	3	●	▼	★	▼	★	★	▼	▼	●	★	●
G12H71	112	★	★	●	3	4	▼	●	●	▼	★	★	★	●	▼	●	▼
G12J11	112	●	★	★	4	4	●	●	★	✖	★	★	▼	●	▼	★	▼
G12Q55	112	●	★	★	3	3	★	●	★	▼	●	★	▼	●	▼	▼	●
G12Z02	112	●	★	★	2	2	★	●	●	●	★	★	★	●	▼	✖	★
G13L67	113	★	★	●	3	4	★	●	▼	●	★	●	▼	▼	●	●	▼
G13S06	113	★	★	●	5	3	●	●	★	★	★	★	▼	▼	▼	●	▼
G13U53 NEW	113	-	-	-	3	3	-	★	●	▼	●	★	●	-	-	-	-
G13G41	113	●	★	●	3	4	★	★	●	●	★	★	★	★	▼	✖	●
G14H66 NEW	114	-	-	-	3	3	-	★	★	▼	★	★	●	-	-	-	-
G14R38	114	★	★	★	3	3	●	●	●	▼	★	★	★	●	▼	●	●
G15P07	115	★	★	●	4	3	●	★	★	★	★	★	●	✖	★	✖	●
G15Z99	115	●	★	●	4	4	●	●	▼	▼	★	●	●	▼	▼	✖	●
G16K01	116	★	★	●	5	3	●	▼	★	✖	★	★	▼	●	▼	●	●
G18D87 NEW	118	-	-	-	4	4	-	●	●	●	★	●	●	-	-	-	-
G18H82	118	★	★	●	4	3	▼	✖	●	●	★	●	▼	★	●	▼	●

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

Seeding Rate: The optimum seeding rate varies by farm yield potential, with more productive farms responding to higher seeding rates. Syngenta Agronomy Research indicates the seeding rate producing the greatest economic return changes with yield environment (assuming $5.00 /bu commodity price) is:

YIELD ENVIRONMENT (BU/A)	<125	125-150	150-175	175-200	200+
SEEDING RATE	21,000	28,500	32,000	34,000	35,700

The optimum seeding rate column indicates performance at these seeding rates, and 15% above and below optimum columns indicate how well the hybrid responds to planting rates heavier or lighter seeding rates.

Continuous Corn Yield Retention: Ratings within the Yield Retention column indicate a hybrid's potential to maintain similar yield as corn-soybean rotations when being grown in a continuous corn cropping system.

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: emergence strength, early vigor, root and stalk strength, staygreen and foliar disease tolerance.

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

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

Agronomy Scores Chart Key

1 = BEST

9 = WORST

- = Data is not yet sufficient to establish a rating

Score Interpretation

- ★ Greatest opportunity to maximize performance and/or trait content relative to other hybrids in maturity group.
- ● Performs well and/or has very good trait content relative to other hybrids in maturity group.
- ▼ Performance and/or trait content is lower relative to other hybrids in maturity group.
- ✖ Performance and/or trait content is below desired levels relative to other hybrids in maturity group.

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

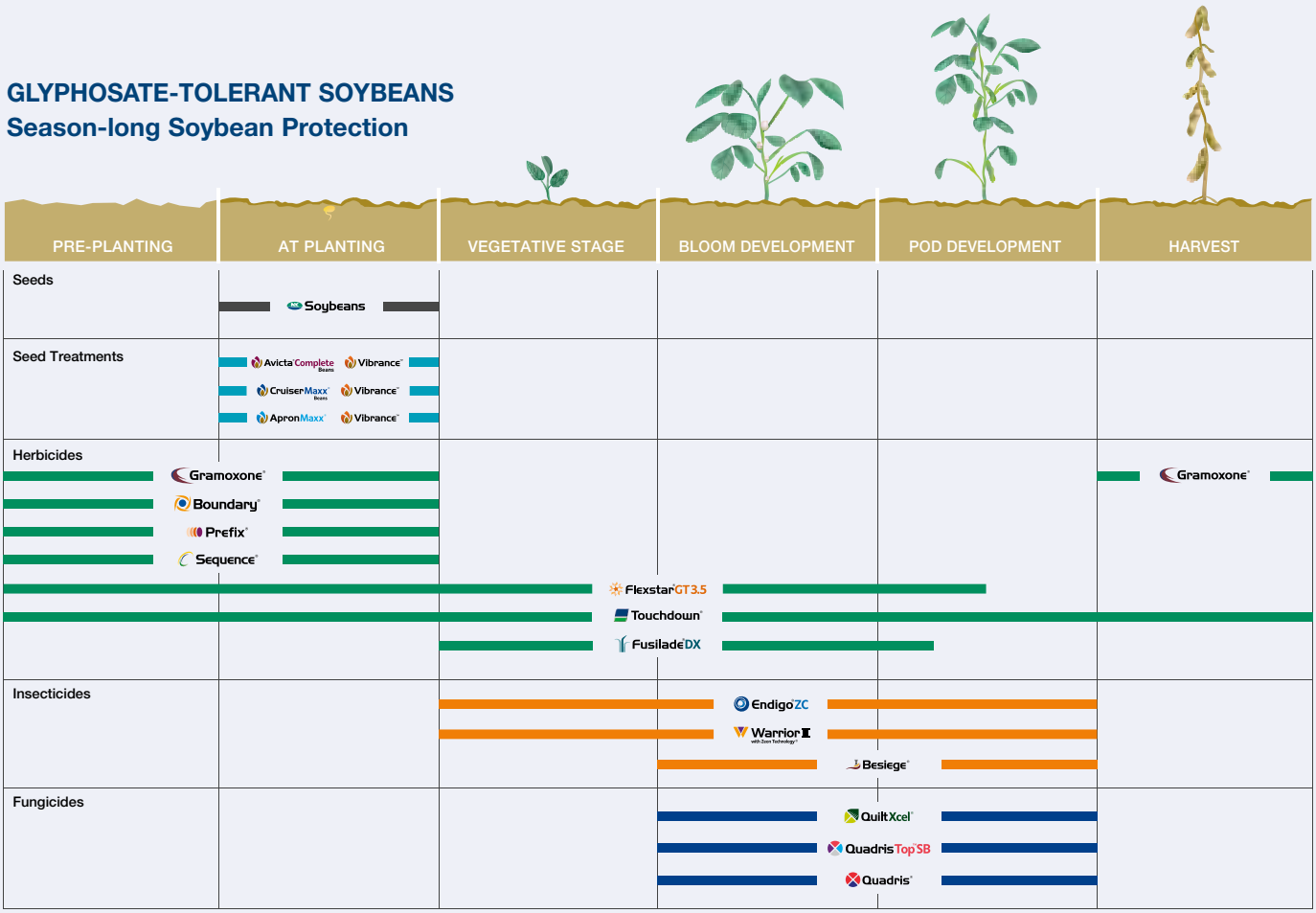
Grow More Soybeans

At Syngenta, it is our mission to enable soybeans to **start strong, grow strong** and **yield strong** each season. Our commitment to research and development advancements, innovative practices and ground-breaking technologies has increased soybean productivity, allowing farmers to **grow more soybeans**.

Syngenta is proud to offer tailored solutions to meet the needs of every farmer and every field. Our robust R&D pipeline produces the broadest portfolio of seed, seed treatment and crop protection products in the industry to help farmers customize a program from planting to harvest.

GROW more soybeans

GLYPHOSATE-TOLERANT SOYBEANS
Season-long Soybean Protection



START STRONG

Starting the season strong sets the foundation for a successful crop. Selecting top-notch seed varieties and high-performance seed treatments maximizes plant establishment and protects the yield potential of seeds against early-season nematode, insect and disease threats.

NK Soybeans

- **Helping growers achieve maximum yield:** Combining elite soybean genetics, ground-breaking technologies and industry-leading traits, NK® brand soybeans are the first step to help farmers break through the yield barrier.

CruiserMaxx® Beans Vibrance®

- **Building upon the best-in-class seed treatment:** CruiserMaxx® Beans insecticide/fungicide, a combination of separately registered products, applied with Vibrance® fungicide seed treatment optimizes performance, protects against damaging insects and diseases and maximizes yield potential. CruiserMaxx Beans applied with Vibrance produces healthier, more robust root systems; delivers systemic root defense; and promotes root performance.

Avicta® Complete Beans

- **Ultimate protection against nematodes, insects and diseases:** Avicta® Complete Beans nematicide seed treatment, applied with Vibrance delivers unmatched protection against damaging nematodes, insects and diseases while creating healthier roots and maximizing yield performance.

GROW STRONG

As soybeans develop, farmers need to limit stress through weed and nutrient management that enables plant growth. Managing weeds, as well as weed resistance, is a critical step in assisting soybeans to **grow strong**. Syngenta takes an active approach in the stewardship of existing herbicide chemistries by offering products with overlapping residuals that can be applied pre-emergence through harvest.

Boundary® Prefix®

- **Start the season right with superior weed control:** Boundary® herbicide delivers early-season broadleaf and grass weed control, excellent resistance management and rotation flexibility. In addition, Prefix® residual herbicide offers proven performance and superior control of broadleaf and grass weeds.

Flexstar® GT 3.5

- **Evolve weed control in glyphosate-tolerant soybeans:** Flexstar® GT 3.5 herbicide is the post-emergence answer for weeds that are difficult to control with glyphosate alone.

Product performance assumes disease pressure.

YIELD STRONG

Finally, soybeans need protection from late-season stressors. Minimizing insect and disease pressures at this stage of the season can reduce unnecessary harvest losses.

QuiltXcel® QuadrisTop® SB

- **Maximizing yield and plant physiology:** Quilt Xcel® and Quadris Top® SB fungicides provide the physiological benefits needed to help soybean crops reach their full genetic potential and increase yield. Each fungicide delivers broad-spectrum, long-lasting residual control of all major foliar diseases and produces larger beans, fuller pods and better pod retention.

Endigo® ZC

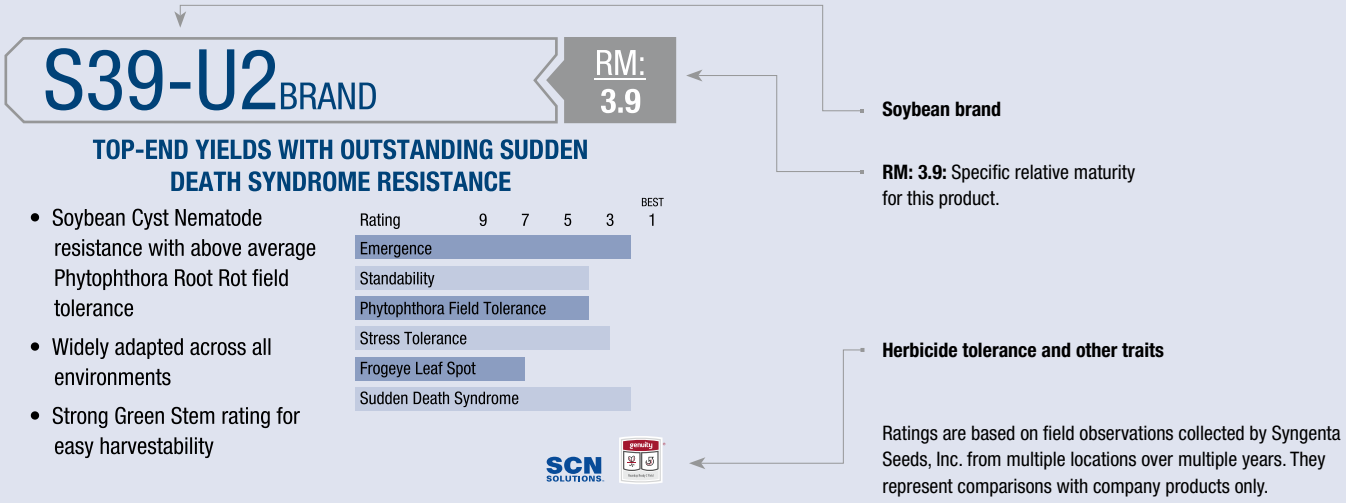
- **A robust performer:** Endigo® ZC insecticide offers broad-spectrum control, effective knockdown and long-lasting residual control of harmful insects.

Dive into *Thrive*!

Syngenta invites you to dig deeper with digital by experiencing its award-winning online magazine. With quarterly updates about the latest products, services and solutions, *Thrive* will give you the information you need to succeed in today's complex marketplace.

Go to www.SyngentaThrive.com for the latest issue.

Description Key



PRODUCT			AGRONOMIC/PLANT CHARACTERISTICS												GRAIN QUALITY		DISEASE/PEST						
																	PHYTOPHTHORA						
NK Brand	Herbicide Tolerant Trait	Relative Maturity (RM)	Emergence	Canopy/Plant Type	Plant Height	Standability	Stress Tolerance	Narrow Row	Wide Row	Flower Color	Pubescence Color	Pod Color	Hilum Color	Soil Chloride Reaction	% Protein @13% mst.	% Oil @13% mst.	Gene Resistance	Field Tolerance	Soybean Cyst Nematode (SCN)	Iron Deficiency Chlorosis (IDC)	Brown Stem Rot (BSR)	Sclerotinia White Mold (SWM)	Sudden Death Syndrome (SDS)	Frogeye Leaf Spot (FLS)
S20-Y2	GENRR2Y	2.0	3	MB	M	3	2	2	1	PUR	LTW	BR	BL	-	34.3	20.5	Rps1k	5	R3, MR14	4	2	-	3	-
S22-F8 *NEW*	GENRR2Y	2.2	3	M	M	3	2	2	3	PUR	GR	BR	IMB	-	33.5	20.5	-	5	S	5	-	-	3	-
S22-S1 *NEW*	GENRR2Y	2.2	3	M	M	4	3	2	3	WH	LTW	BR	BL	-	33.6	19.9	Rps1c	4	R3, MR14	4	-	3	2	-
S24-K2	GENRR2Y	2.4	3	M	M	3	3	2	3	WH	GR	BR	BF	-	34.9	19.5	Rps1c	3	S	3	4	4	4	-
S25-E5 *NEW*	GENRR2Y	2.5	3	MB	M	5	3	2	3	PUR	LTW	BR	BL	-	35.5	19.2	Rps1c	4	R3, MR14	5	-	-	3	-
S27-H6	RR	2.7	2	MT	M	3	3	2	2	WH	LTW	BR	BL	-	34.0	20.6	Rps1a	4	R3, MR14	5	2	4	3	-
S28-A2 *NEW*	GENRR2Y	2.8	2	MB	MT	4	2	2	2	WH	LTW	BR	BL	-	34.7	19.9	Rps1c	4	R3, MR14	5	-	-	2	-
S28-K1	RR	2.8	3	M	M	3	3	2	2	WH	LTW	TN	BR	-	34.7	18.7	Rps1k	4	S	2	4	4	4	-
S28-U7	GENRR2Y	2.8	3	MB	M	4	2	2	3	WH	LTW	BR	BL	-	34.9	19.7	Rps1c	5	S	5	4	4	5	-
S29-V2	GENRR2Y	2.9	2	B	MT	4	1	3	1	PUR	GR	BR	IMB	-	34.9	19.1	Rps1c	2	R3, MR14	5	2	4	2	-
S30-E9	GENRR2Y	3.0	2	MB	MT	4	4	3	2	PUR	GR	TN	IMB	-	34.8	19.2	Rps1c	3	R3, MR14	5	5	-	3	-
S31-L7	GENRR2Y	3.1	3	M	MT	2	2	3	4	PUR	GR	BR	IMB	-	36.2	18.5	Rps1c	3	R3, MR14	4	4	6	3	5
S34-N3	GENRR2Y	3.4	2	MB	MT	2	2	2	2	PUR	GR	BR	IMB	-	37.1	18.6	Rps1c	4	MR3, MR14	4	-	-	3	5
S34-Z1 *NEW*	GENRR2Y	3.4	3	MB	MT	4	2	2	1	WH	LTW	TN	BL	INC	34.2	20.6	Rps1c	5	R3, MR14	3	-	-	3	-
S35-C3 *NEW*	GENRR2Y	3.5	3	M	MT	3	1	2	2	PUR	TW	TN	BL	INC	35.8	18.9	-	3	R3	6	-	-	3	-
S36-B6	RR	3.6	3	MB	M	3	3	3	3	PUR	LTW	BR	BL	INC	35.1	18.5	Rps1a	3	S	4	3	-	8	4
S36-M8	GENRR2Y	3.6	2	MB	M	3	2	1	2	PUR	GR	BR	IMB	INC	35.2	20.1	Rps1c	4	R3, R14	5	-	-	4	-
S37-B1	GENRR2Y	3.7	2	MB	M	3	2	2	2	WH	GR	BR	BF	-	35.0	19.2	Rps1c	4	MR3	6	-	-	4	-
S38-S4	RR/STS	3.8	3	M	M	2	2	1	2	WH	LTW	BR	BL	INC	35.2	19.5	-	4	MR3	6	-	-	4	-
S38-W4 *NEW*	GENRR2Y	3.8	3	M	T	4	3	3	1	WH	LTW	TN	BL	INC	35.2	20.1	-	4	R3	6	-	-	3	-
S39-U2	GENRR2Y	3.9	2	MB	MT	4	3	2	2	WH	LTW	TN	BL	INC	32.5	20.6	-	4	R3, R14	4	-	-	2	7
S41-J6	GENRR2Y	4.1	3	MB	T	3	4	2	3	PUR	LTW	BR	BL	INC	35.5	19.5	Rps1c	4	R3, MR14	5	-	-	4	5
S42-W9	GENRR2Y	4.2	3	M	M	2	4	1	4	WH	LTW	TN	BL	INC	33.2	21.0	Rps1a	6	R3, R14	6	-	-	6	4
S43-K1 *NEW*	GENRR2Y	4.3	2	M	MT	4	4	2	3	WH	LTW	BR	BL	EXC	34.1	20.4	-	5	R3, MR14	7	-	-	3	2
S44-K7	RR/STS	4.4	4	MB	M	3	3	2	3	PUR	TW	TN	BL	INC	33.9	19.5	Rps1c	5	R3, MR14	4	-	-	6	2
S45-V8 *NEW*	GENRR2Y	4.5	2	M	MT	3	3	1	3	WH	TW	BR	BR	INC	33.5	19.8	Rps1c	4	R3, MR14	5	-	-	4	6
S46-G9 *NEW*	GENRR2Y	4.6	2	MB	MT	3	3	1	2	PUR	GR	BR	BF	INC	35.5	20.0	Rps1a	5	R3	-	-	-	4	5
S46-L2 *NEW*	GENRR2Y	4.6	3	M	MT	4	3	1	2	PUR	GR	BR	BF	EXC	34.4	19.8	Rps1c	5	R3	6	-	-	4	6
S46-Q6 *NEW*	GENRR2Y/STS	4.6	4	M	T	4	3	2	4	PUR	TW	BR	BL	EXC	35.9	20.1	Rps1c	5	R3, MR14	-	-	-	3	7
S48-P4	GENRR2Y/STS	4.8	3	M	T	4	3	1	2	PUR	LTW	BR	BL	INC	34.0	19.9	Rps1k	4	R3, MR14	6	-	-	6	6
S49-F8	RR	4.9	3	MB	MT	2	3	1	2	WH	LTW	TN	BL	EXC	36.4	19.2	Rps1a	5	R3, R14	6	-	-	4	2
S51-H9	GENRR2Y	5.1	3	M	M	3	3	2	3	WH	GR	TN	BF	EXC	37.1	19.7	Rps1c	3	R3, MR14	3	-	-	5	4
S52-F2	RR	5.2	2	MB	M	5	3	2	2	PUR	TW	TN	BL	EXC	38.0	18.2	-	4	R3	6	-	-	5	2
S52-Y2 *NEW*	GENRR2Y	5.2	4	M	MT	4	4	2	3	PUR	LTW	TN	BL	INC	37.1	18.7	Rps1c	6	R3, MR14	4	-	-	4	7
S53-A1	RR	5.3	3	M	M	2	3	2	3	PUR	TW	TN	BL	EXC	37.5	18.5	-	4	R3	6	-	-	5	2
S54-V4	RR/STS	5.4	4	MB	M	4	3	2	3	PUR	GR	TN	IMB	EXC	39.9	17.6	-	5	R3	4	-	-	6	3

Soybean Chart Key

Disease/Pest Rating
1 = Best 9 = Worst - = Not available

Herbicide Tolerant Trait
RR = Roundup Ready,® RR/STS = Roundup Ready® and STS®
GENRR2Y = Genuity® Roundup Ready 2 Yield®
GENRR2Y/STS = Genuity® Roundup Ready 2 Yield® and STS®

Relative Maturity
First number indicates maturity group, second number indicates within-group maturity rating on a 0–9 scale (0 = Early, 9 = Late).

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

Soil Chloride Reaction
INC = Includer EXC = Excluder

Resistance Rating System
Indicates when a variety is resistanct to a specific disease or pest. For varieties with Soybean Cyst Nematode (SCN) resistance, it is specified which races of nematodes the line is resistant to. In the case of phytophthora, it indicates the gene conveying the resistance.

Soybean Cyst Nematode (SCN)
1, 3, 5 and/or 14 = specific race of soybean cyst nematode
R = Resistant, MR = Moderately Resistant, S = Susceptible

Phytophthora Gene Resistance
The following information correlates gene resistance to the actual races of phytophthora the plant is protected from:

Rps1a = resistant to races 1, 2, 10, 11, 13, 15–18, 24, 26, 27
Rps1k = resistant to races 1–11, 13–15, 17, 18, 21, 22, 24, 26
Rps1c = resistant to races 1–3, 6–11, 13, 15, 17, 21, 23, 24, 26
Rps3a = resistant to races 1–5, 8, 9, 11, 13, 14, 16, 18, 23, 25

Phytophthora Field Tolerance
Usually not as complete as race-specific resistance, but it offers general protection. Resistance is not expressed in early stages of plant development. Numerical rating scale of 1–9; 1 = Best.

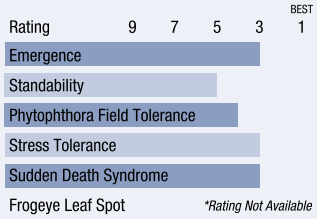
S25-E5 BRAND

NEW

RM: 2.5

YIELD STABILITY ACROSS ENVIRONMENTS

- Strong Soybean Cyst Nematode protection
- Rps1c Phytophthora Root Rot gene with above average field tolerance
- Very good Sudden Death Syndrome resistance



SCN SOLUTIONS

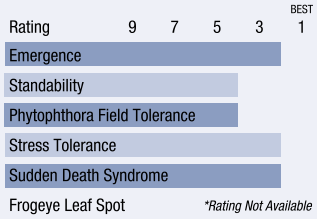
S28-A2 BRAND

NEW

RM: 2.8

TOP-END YIELDS WITH EXCELLENT DEFENSE

- Soybean Cyst Nematode resistant
- Very strong Sudden Death Syndrome resistance
- Rps1c Phytophthora Root Rot gene with above average field tolerance



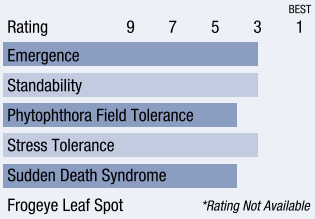
SCN SOLUTIONS

S28-K1 BRAND

RM: 2.8

EXCEPTIONAL TOP-END YIELD WITH PROVEN CONSISTENCY

- Very good Iron Deficiency Chlorosis tolerance
- Excellent stress tolerance for stable yields on tougher soils
- Rps1k gene for Phytophthora Root Rot tolerance



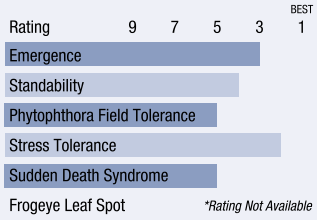
Roundup Ready SOYBEANS

S28-U7 BRAND

RM: 2.8

OUTSTANDING YIELD PERFORMANCE

- Rps1c gene for Phytophthora Root Rot protection
- Outstanding stress tolerance
- Very good emergence for early planting

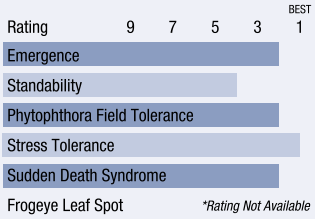


S29-V2 BRAND

RM: 2.9

WIDELY ADAPTED WITH SUPERB SUDDEN DEATH RESISTANCE

- Rps1c gene for Phytophthora Root Rot and excellent field tolerance
- Excellent Brown Stem Rot and stress tolerance with medium-tall plant height
- Above average standability with a strong Soybean Cyst Nematode package



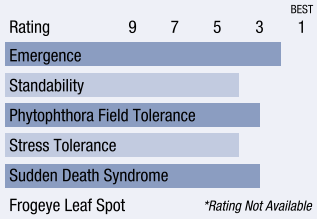
SCN SOLUTIONS

S30-E9 BRAND

RM: 3.0

YIELD STABILITY FROM EAST TO WEST ACROSS ALL ENVIRONMENTS

- Strong Soybean Cyst Nematode protection
- Very good Sudden Death Syndrome resistance
- Rps1c Phytophthora Root Rot gene with very good field tolerance



SCN SOLUTIONS

Notes

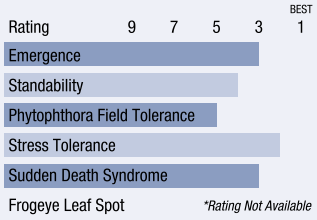
S34-Z1 BRAND

NEW

RM: 3.4

VERSATILITY WITH TOP-END YIELD ACROSS ENVIRONMENTS

- Very good Sudden Death Syndrome resistance
- Strong Soybean Cyst Nematode resistance
- Rps1c Phytophthora Root Rot gene with average field tolerance



SCN SOLUTIONS

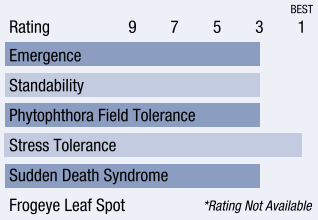
S35-C3 BRAND

NEW

RM: 3.5

TOP CHOICE FOR RUGGED, STRESS-PRONE SOILS

- Exceptional stress tolerance
- Strong Sudden Death Syndrome resistance
- Very good field tolerance to Phytophthora Root Rot



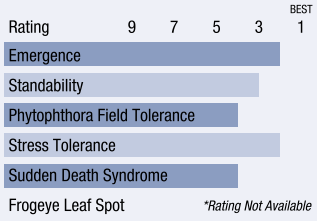
SCN SOLUTIONS

S36-M8 BRAND

RM: 3.6

EXCEPTIONAL PERFORMANCE

- Rps1c Phytophthora Root Rot gene with above average field tolerance
- Very good Charcoal Rot tolerance
- Excellent emergence and stress tolerance with a solid Green Stem rating



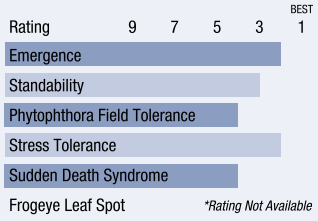
SCN SOLUTIONS

S37-B1 BRAND

RM: 3.7

EXCELLENT YIELDS WITH STRONG CHARCOAL ROT TOLERANCE

- Rps1c Phytophthora Root Rot gene
- Above average Sudden Death Syndrome resistance
- Excellent emergence and very good standability



SCN SOLUTIONS

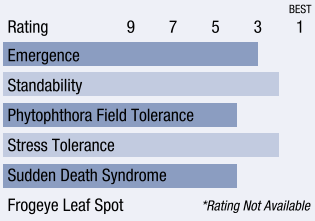
Notes

S38-S4 BRAND

RM: 3.8

HIGH YIELDS WITH STS PROTECTION

- Excellent standability and stress tolerance
- Above average Sudden Death Syndrome resistance
- Consistent performance across multiple environments



SCN SOLUTIONS. STS Roundup Ready 2 Xtend

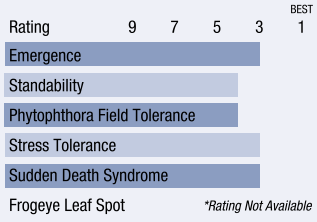
S38-W4 BRAND

NEW

RM: 3.8

HIGH YIELDS WITH STRONG CHARCOAL ROOT ROT TOLERANCE

- Dependable Sudden Death Syndrome resistance
- Strong emergence for early planting
- Very good field tolerance to Phytophthora Root Rot



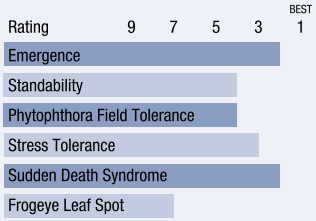
SCN SOLUTIONS. genuity

S39-U2 BRAND

RM: 3.9

TOP-END YIELDS WITH OUTSTANDING SUDDEN DEATH SYNDROME RESISTANCE

- Soybean Cyst Nematode resistance with above average Phytophthora Root Rot field tolerance
- Widely adapted across all environments
- Strong Green Stem rating for easy harvestability



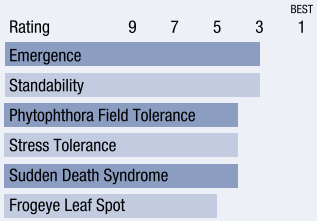
SCN SOLUTIONS. genuity

S41-J6 BRAND

RM: 4.1

STRONG PERFORMANCE EAST TO WEST

- Rps1c Phytophthora Root Rot gene with above average field tolerance
- Above average Sudden Death Syndrome resistance
- Light Tawny/Brown plant with good appearance



SCN SOLUTIONS. genuity

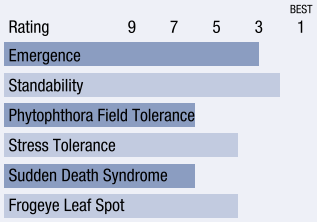
Notes

S42-W9 BRAND

RM: 4.2

HIGH YIELDING VARIETY WITH EXCELLENT STANDABILITY

- Excellent Southern Stem Canker tolerance
- Better than average tolerance to Charcoal Rot
- Attractive Light Tawny/Tan plant



SCN SOLUTIONS

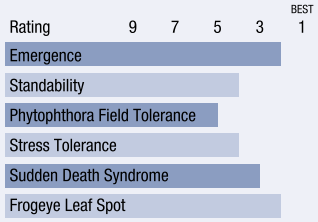
S43-K1 BRAND

NEW

RM: 4.3

STRONG AGRONOMICS WITH EXCELLENT YIELD

- Very good Sudden Death Syndrome resistance
- Chloride excluder with excellent Frogeye Leaf Spot tolerance
- Excellent emergence and seedling growth



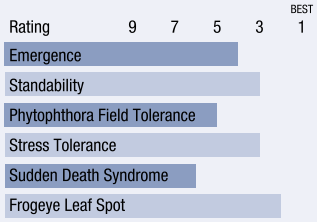
SCN SOLUTIONS

S44-K7 BRAND

RM: 4.4

EXCELLENT-YIELDING STS HERBICIDE TOLERANT PRODUCT

- Very strong Frogeye Leaf Spot tolerance
- Soybean Cyst Nematode resistance
- Excellent choice for double crop soybeans



SCN SOLUTIONS STS Roundup Ready SOYBEANS

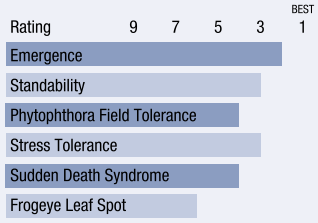
S45-V8 BRAND

NEW

RM: 4.5

STRONG STRESS TOLERANCE WITH HIGH YIELDS

- Excellent emergence and seedling growth
- Very good standability
- Good Green Stem rating



SCN SOLUTIONS

Lucas Nofziger
Wauseon, Ohio

"NK® brand soybeans have proven themselves over the years. I'm a dealer for NK soybeans, and they've certainly proven themselves with increased standability, and they really pull through for us in tough environmental conditions. They have superior yield and are one of the most competitive brands in our area of Ohio by far."

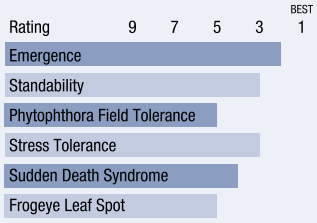
S46-G9 BRAND

NEW

RM: 4.6

EXCELLENT YIELDS IN PRODUCTIVE, WELL-DRAINED SOILS

- Good Sudden Death Syndrome resistance
- Dependable stress tolerance
- Solid standability



SCN SOLUTIONS

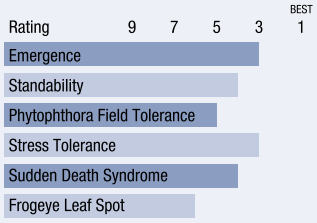
S46-L2 BRAND

NEW

RM: 4.6

OUTSTANDING YIELD PERFORMANCE FROM EAST TO WEST

- Rps1c gene for Phytophthora Root Rot
- Good standability and Sudden Death Syndrome resistance
- Chloride excluder with excellent Southern Stem Canker tolerance



SCN SOLUTIONS

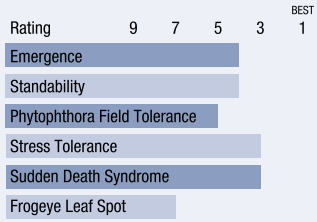
S46-Q6 BRAND

NEW

RM: 4.6

OUTSTANDING CHOICE FOR WESTERN STS ACRES

- Chloride excluder with very good Sudden Death Syndrome resistance
- Rps1c gene for Phytophthora Root Rot resistance
- Good height and standability that is well suited for double crop acres



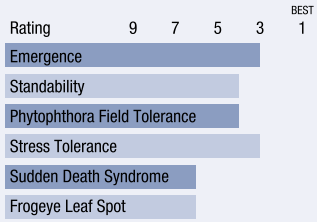
SCN SOLUTIONS STS

S48-P4 BRAND

RM: 4.8

TOP-END YIELD WITH STS PROTECTION

- Rps1k Phytophthora Root Rot gene with above average field tolerance
- Excellent Southern Stem Canker tolerance
- Tall Tawny/Tan plant with above average standability



SCN SOLUTIONS STS

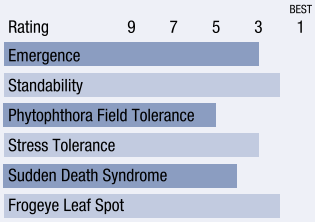
Notes

S49-F8 BRAND

RM: 4.9

LATE GROUP IV YIELD LEADER

- Excellent Frogeye Leaf Spot and Southern Stem Canker tolerance
- Medium-tall plant with very strong standability
- Very good Green Stem rating makes harvest a breeze



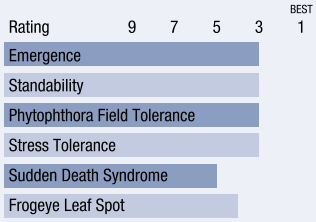
SCN SOLUTIONS. Roundup Ready 2 Yield Soybeans

S51-H9 BRAND

RM: 5.1

HIGH-YIELDING EARLY GROUP V VARIETY

- Above average Frogeye Leaf Spot tolerance
- Chloride excluder with a very good Green Stem rating
- Medium plant height and excellent standability



SCN SOLUTIONS. genuity

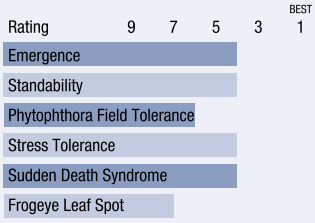
S52-Y2 BRAND

NEW

RM: 5.2

EARLY GROUP V INDETERMINATE WITH TOP-END YIELD

- Excellent Stem Canker resistance
- Good Iron Deficiency Chlorosis tolerance
- Rps1c gene for Phytophthora Root Rot resistance



SCN SOLUTIONS. genuity

Notes

Better serving the alfalfa acre

Syngenta is committed to better serving alfalfa growers by working with them to achieve a stronger stand and improve quality and performance over the crop's life. That starts with NEXGROW® brand alfalfa varieties, both glyphosate-resistant and conventional varieties, with top-performing agronomic characteristics and pest resistance so growers can choose the option that works best for their field and forage needs.

NEXGROW®

THE SEED GROWERS NEED

To start the season strong, a weed-free field is critical. Using Touchdown® brand herbicides with NEXGROW® varieties containing the Genuity® Roundup Ready® trait keeps fields free of early-season weeds so the young stand can secure the needed moisture and nutrients for optimum growth. In addition to expanding weed management options, NEXGROW® next-generation Roundup Ready varieties:

- Achieve maximum germination, even emergence and vigorous growth
- Deliver optimal stand establishment, quality and yield

CruiserMaxx® Alfalfa

ENHANCED EMERGENCE AND STAND

A clean, weed-free field combined with the best seed choice and seed treatment is a recipe for a successful season. As the first insecticide/fungicide seed treatment in the alfalfa market, CruiserMaxx® Alfalfa seed treatment combines three separately registered products, Apron XL® and Maxim® 4FS fungicides and Cruiser® Alfalfa insecticide, to combat early-season diseases and insects in one application. CruiserMaxx Alfalfa on NEXGROW® varieties:

- Help alfalfa develop stronger roots, use inputs more efficiently, emerge faster and grow more evenly
- Deliver maximum seed germination and seedling emergence
- Improve alfalfa quality and maximizes yield potential

Besiege® Warrior II® with Zeon Technology® Quadris®

MAINTAINING A HEALTHY CROP

As the season progresses, alfalfa growers must keep pests at bay to preserve crop quality and yield. While a strong start is essential to fending off pests, timely fungicide and insecticide applications offer an additional layer of protection to NEXGROW® alfalfa. For example:

- Working through dual modes of action, Besiege® insecticide delivers excellent control of lepidopteran pests, including beet armyworm, yellowstriped armyworms, webworms and alfalfa caterpillar.

- Warrior II with Zeon Technology® insecticide keeps pests like potato leafhopper, aphids, alfalfa weevil and other insects under control so there is more forage to harvest.
- For diseases like spring and summer blackstem and leaf spots that afflict alfalfa, Quadris® fungicide provides reliable control so plants can focus their energy into crop yield and forage quality.

With quality seed, seed treatment and proper management techniques, growers can feel confident in the return their alfalfa crop will provide at harvest.

PRODUCT	AGRONOMIC						DISEASE/PEST										NOTES
Product	Fall Dormancy	Glyphosate Tolerant	Winterhardiness	Persistence	Recovery After Cutting	Forage Quality	Disease Rating Index	Aphanomyces Root Rot	Phytophthora Root Rot	Anthracnose	Bacterial Wilt	Fusarium Wilt	Verticillium Wilt	Pea Aphid	Spotted Aphid	Stem Nematodes	
SPREDOR 5 *NEW*	2	No	VH	EX	MF	VG	29	HR	HR	HR	HR	HR	R	R	R	-	Fifth Generation SPREDOR with Creeping Root System
6305Q	3	No	H	EX	MF	EX	30	HR	HR	HR	HR	HR	HR	R	R	R	Performs Well Under Intense Harvest Traffic
6401N	4	No	VH	EX	F	EX	29	R	HR	HR	HR	HR	HR	HR	-	HR	Proven Yields in High pH Soils
6417	4	No	VH	VG	F	EX	30	HR	HR	HR	HR	HR	HR	R	-	-	Race 2 Aphanomyces Resistant
6422Q	4	No	VH	EX	VF	EX	30	HR	HR	HR	HR	HR	HR	R	-	R	#1 selling NEXGROW® variety in the U.S.
6472A *NEW*	4	No	VH	EX	VF	EX	30	HR	HR	HR	HR	HR	HR	R	-	R	Latest Race 2 Aphanomyces Resistant Variety
6475H	4	No	VH	VG	VF	VG	30	HR	HR	HR	HR	HR	HR	R	-	R	Next Generation Leafhopper Resistance
6497R	4	Yes	VH	EX	F	EX	30	HR	HR	HR	HR	HR	HR	R	-	R	Top Quality for Dairy and Cash Hay Producers
Mutiny	4	Yes	VH	EX	VF	VG	30	HR	HR	HR	HR	HR	HR	R	-	HR	High Resistance to Stem Nematode
919® Alfalfa	3	No	H	VG	MF	G	23	LR	HR	R	R	R	R	MR	-	-	Proven Value-priced Performer
919® MF Gold Alfalfa	4	No	VH	VG	F	VG	28	R	HR	HR	HR	HR	R	MR	-	R	Blend of Improved Multifoliate Varieties
6516R	5	Yes	H	VG	VF	EX	30	HR	HR	HR	HR	HR	HR	HR	HR	HR	Step-change in Yield and Forage Quality
6585Q *NEW*	5	No	VH	EX	VF	EX	30	HR	HR	HR	HR	HR	HR	R	-	HR	New High Yield Companion to 6422Q

Alfalfa Chart Key

Fall Dormancy
1 = Highly Dormant
9 = Less Dormant

Winterhardiness
VH = Very Hardy
H = Hardy
MH = Moderately Hardy

Persistence
EX = Excellent
VG = Very Good
G = Good

Recovery After Cutting
VF = Very Fast
F = Fast
MF = Moderately Fast

Forage Quality
EX = Excellent
VG = Very Good
G = Good

DRI = Disease Rating Index
HR = 5
R = 4
MR = 3
LR = 2
S = 1
DRI = Sum of the 6 major diseases with a total possible score of 30

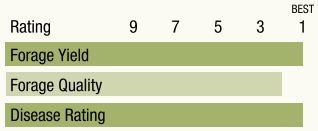
Pest Resistance Ratings
(percent of plants resistant)
HR = High Resistance (>50%)
R = Resistance (31–50%)
MR = Moderate Resistance (15–30%)
LR = Low Resistance (6–14%)
S = Susceptible (0–5%)
– = Not Available

6401N

FD: 4

NEW VARIETY WITH PROVEN YIELDS IN HIGH PH SOILS

- Replaces 6431 in areas where Stem Nematode is a problem
- Excellent under high pH soils
- High resistance to Stem Nematode

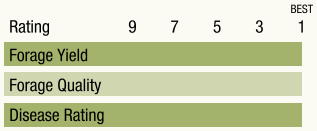


6422Q

FD: 4

#1 SELLING NEXGROW® VARIETY IN THE U.S.

- 2012 Commercial Hay Champion at World Forage Superbowl
- Step-change in yield potential over current varieties
- Outstanding winterhardiness in a full-season variety



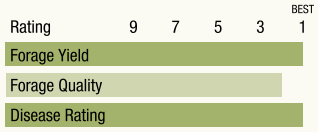
6472A

NEW

FD: 4

LATEST RACE 2 APHANOMYCES RESISTANT VARIETY

- Top choice for heavy or saturated soils
- Provides high resistance to Aphanomyces Races 1 & 2
- Excellent companion to 6422Q

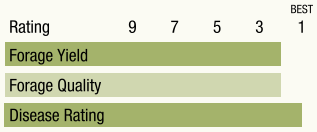


6475H

FD: 4

LATEST GENERATION LEAFHOPPER RESISTANCE

- Step-change in yield potential with the highest level of Leafhopper protection available
- Disease Resistance Index of 30 and Stem Nematode resistance
- Outstanding winterhardiness for Leafhopper varieties

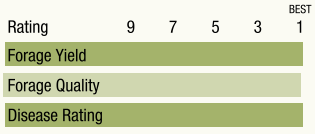


6497R

FD: 4

TOP QUALITY FOR DAIRY AND CASH HAY PRODUCERS

- New Genuity® Roundup Ready® companion to Liberator and 6443RR
- Maximum yields, quality and/or milk per acre
- High mulifoliate expression for maximum quality

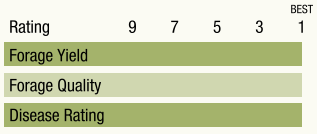


MUTINY

FD: 4

HIGH RESISTANCE TO STEM NEMATODE

- Big yield potential of high-quality forage from first cut to last
- Excellent winterhardiness in a fall dormancy 4 variety
- Solid performance in Plains and Western U.S.



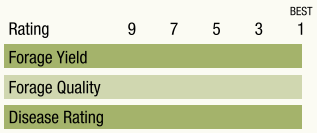
Notes

6516R

FD: 5

STEP-CHANGE IN YIELD AND FORAGE QUALITY

- Rapid recovery after cutting enables maximum number of harvests
- High resistance to Stem Nematode
- Latest generation fall dormancy 5 Genuity® Roundup Ready®

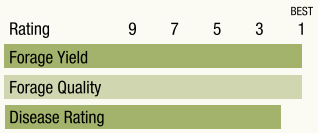


6585Q

NEW FD: 5

NEW HIGH YIELD COMPANION TO 6422Q

- Leading fall dormancy 5 variety for maximum cuttings
- High-yielding variety selected for top forage quality
- Replaces 6552



David Hinman
Wheatland, Wyoming, October 2012

"This variety (6422Q) continues to live up to both our and our customers' expectations, especially in terms of quality. We operate in a 28-day cutting cycle, and expect our alfalfa to stand up to high traffic and green up quickly after cutting. 6422Q excels in both aspects, coming back full of leaves to the top of the stem."

David Hinman, left, of Wheatland, Wy., stands with Brent Johnson, Syngenta Alfalfa Product Lead, at the World Forage Analysis Superbowl. Hinman and his daughter, Kelli, took top honors at the event with 6422Q from Syngenta.

Notes

Innovation and integration to grow more wheat

From seed to harvest, Syngenta supports cereal growers by offering a robust portfolio of seed and crop protection solutions backed by unmatched service. Our unique portfolio breadth enables us to innovate and deliver integrated solutions to help farmers grow more wheat.

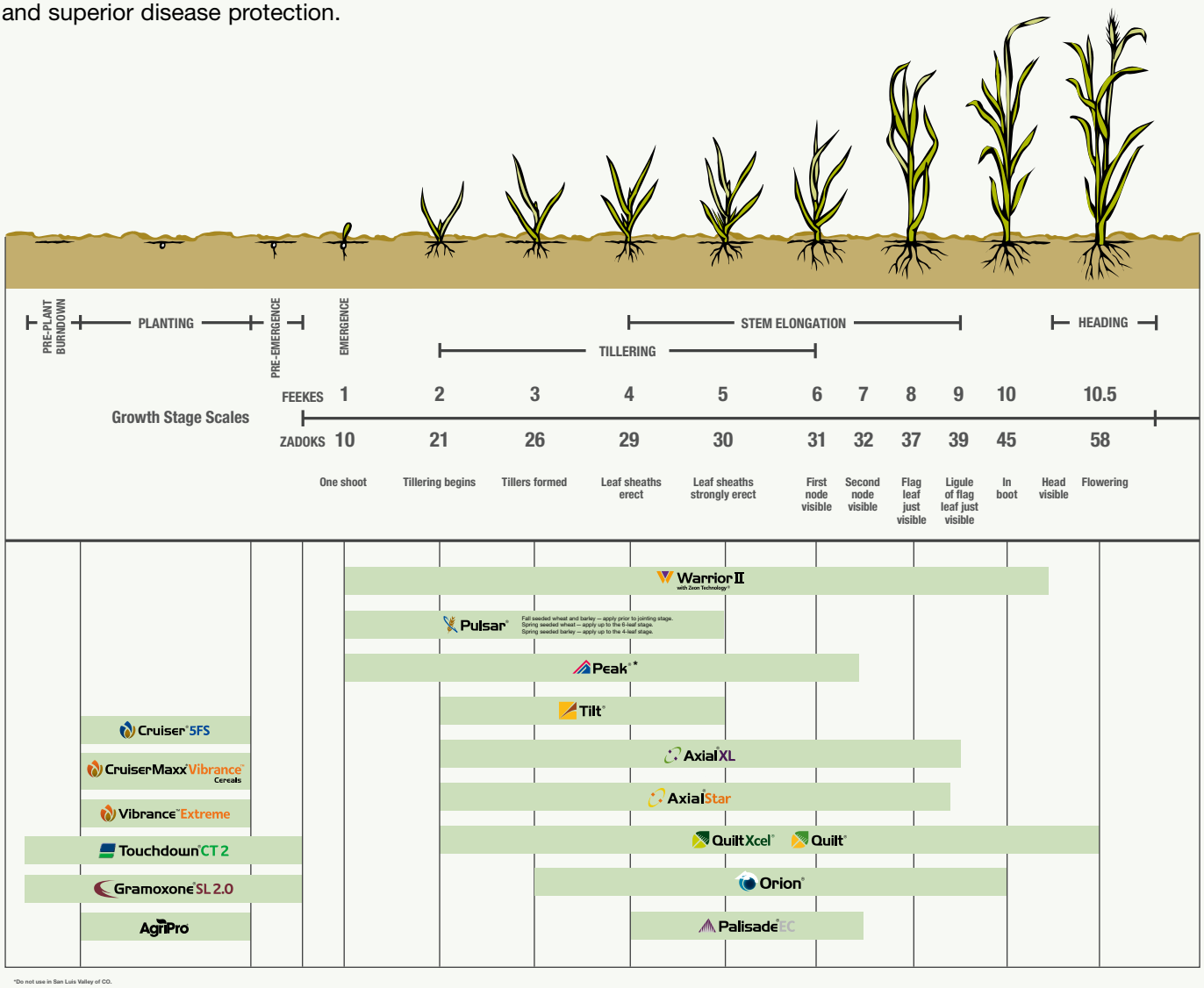
Syngenta continues to make tangible advancements in wheat transformation, propelling the wheat sector forward by combining our record of technology innovation, investment and involvement with future milestones, such as hybrid wheat. We want to help growers succeed, so we continually seek new solutions that set unprecedented standards for yield, quality and sustainability.

GROW more wheat

AgriPro

SUPERIOR GENETICS. LOCALLY GROWN. CONSISTENT PERFORMANCE.

With the largest wheat breeding program in North America, Syngenta is the industry leader in the development of superior wheat varieties, offering growers consistent performance in the field. Syngenta currently offers more than 90 varieties of spring wheat, winter wheat and triticale in North America. AgriPro® brand wheat varieties target high yield potential, good test weights, quality grain and superior disease protection.



*Do not use in San Luis Valley of CO.

- **Locally based breeding programs:** Breeders dispersed across North America focus on developing top-performing varieties that address local pest and weather-related challenges.
- **Driving to hybrid wheat:** Opened in 2012, a new Syngenta hybrid wheat greenhouse at our Junction City, Kan., research facility leads our push to release hybrid wheat varieties by 2020.

CruiserMaxx® Vibrance® Cereals Vibrance® Extreme

ENHANCED ROOT HEALTH, OPTIMAL STAND ESTABLISHMENT

The key to a profitable harvest is laying a strong foundation for the season, which includes healthy roots and a healthy stand. This can be achieved through prudent use of high-quality seed treatments to protect against threats from insects and disease.

- **RootingPower:** Vibrance® brand seed treatment fungicide products – including Vibrance® Extreme seed treatment fungicide and CruiserMaxx® Vibrance Cereals seed treatment insecticide/fungicide – boost a crop's RootingPower by delivering enhanced disease protection that leads to stronger root systems and improved crop performance.
- **Cruiser Vigor Effect:** Applying Cruiser® seed treatment insecticide in combination with Vibrance Extreme provides protection from insects and diseases while delivering improved emergence and plant vigor through the Cruiser Vigor Effect.

Axial® XL QuiltXcel® Warrior II with Zeon Technology®

MAINTAINING A HEALTHY CROP FOR A PROFITABLE HARVEST

Maximizing wheat quality and yield potential relies on season-long protection from damaging diseases and insects, as well as competitive weeds. Syngenta offers a robust portfolio of crop protection products to ensure cereal crops are protected season-long.

- **Enhanced stress tolerance; excellent disease protection:** Quilt Xcel® fungicide offers enhanced physiological benefits to help crops withstand stressful growing conditions such as drought, while delivering superior protection against yield-robbing diseases like powdery mildew, rusts, tan spot and Septoria.
- **Broad-spectrum foliar insect control:** Protect cereal crops from yield-robbing insects, including aphids, cereal leaf beetle and grasshoppers, with a foliar application of Warrior II with Zeon Technology® insecticide.
- **Knock out grass and broadleaf weed competition:** Eliminate yield-robbing grass and broadleaf weeds with top-performing herbicides from Syngenta. Axial® XL herbicide helps eliminate competitive grass weeds and is an excellent tank-mix option with other herbicides like Orion® to control key broadleaf weeds.

PRODUCT	PLANT DESCRIPTION								DISEASES						
Variety	Class	Type	Relative Maturity	Vernalization	Winterhardiness	Test Weight	Height	Straw Strength	Soil Virus Complex	Leaf Blotch	Barley Yellow Dwarf	Leaf Rust	Stripe Rust	Powdery Mildew	Head Scab
Branson	SRW	Awnless	2	2	4	4	2	4	5	4	4	5	2	3	4
W1104	SRW	Awnless	4	2	4	4	3	4	2	3	5	6	1	5	3
SY 1526 *NEW*	SRW	Awnless	3	3	2	4	4	5	6-SBMV,4-WSSMV	4	7	3	7	5	2
SY 483 *NEW*	SRW	Awnless	4	3	4	4	2	3	3	5	6	4	1	5	3

Wheat Ratings - Northern Soft

Relative Maturity
1 = Earliest
9 = Latest

Class
SRW = Soft red winter
SWW = Soft white winter

Height
1 = Shortest
9 = Tallest

Other Numeric Ratings
1 = Best or Resistant
9 = Poor or Susceptible

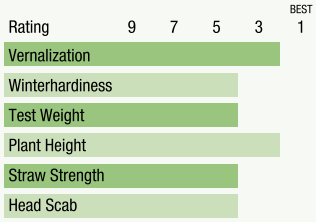
Soil Virus Complex
Resistance to specific Virus Complex or general resistance:
SBMV = Soil Borne Mosaic Virus
WSSMV = Wheat Spindle Streak Mosaic Virus
1 = Best or Resistant
9 = Poor or Susceptible

Branson

Mat: ME

PERFORMANCE UNDER PRESSURE

- Broad adaptation equals better yields in more environments
- Adapted to all soil types
- Medium-early maturity; very good standability



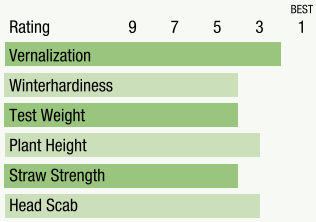
Soft Red Winter

W1104

Mat: M

THE ALL-AROUND PERFORMER

- Broad adaptation equals better yields in more environments
- Best performer under low management
- Very good Soil Virus tolerance



Soft Red Winter

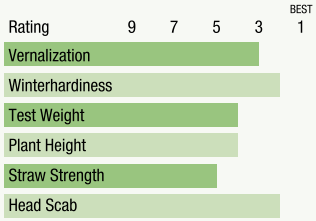
SY 1526

NEW

Mat: ME

NEW MIDWESTERN DOUBLE-CROP WHEAT

- Medium-early maturity; suitable for double cropping
- Very fast fall emergence and spring greenup
- Very good Head Scab tolerance



Soft Red Winter

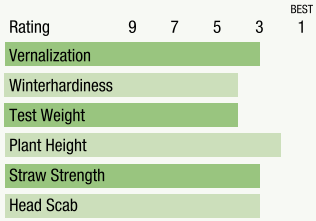
SY 483

NEW

Mat: ML

ALL-OUT YIELD

- Excellent yield potential under intense management strategies
- Very good winter survival and Rhizoctonia resistance
- Very good Soil Virus tolerance



Soft Red Winter

Notes

Grain Marketing Guidelines for Hybrids with Agrisure Traits

Growers are encouraged to consult the National Corn Growers Association website Know Before You Grow® for the approval status of commercially available hybrids, **www.ncga.com/know-you-grow**. Crops or other material produced from Agrisure® Trait products can only be exported to, used, processed and/or sold in countries where all necessary regulatory approvals have been granted. Talk to your grain handler or other purchaser prior to delivering your crop so that it can be handled and marketed appropriately. If you have questions, please contact your local seed representative.

Insect Resistance Management (IRM) for Insect-Protected Hybrids

A strong stewardship program is essential for protecting and preserving the long-term value of insect-protected trait technology. The U.S. Environmental Protection Agency (EPA) requires a refuge on every farm that plants Bt corn hybrids. EPA requires companies that market Bt corn hybrids to have structured refuge requirements and conduct a grower compliance program. The EPA also requires growers to sign a stewardship agreement and annually affirm that they follow IRM requirements. IRM education and compliance are uniform across the U.S. corn industry to ensure a consistent IRM message. Failure to plant the appropriate refuge jeopardizes your continued access to insect-protected corn technology from Syngenta. Refuge guidelines can be found in the IRM Stewardship Guide which can be accessed at www.syngentastewardship.com. Questions related to the Syngenta Stewardship agreement or guide can be directed to 1-877-GRO-CORN (1-877-476-2676).

Insect Resistance Management

Planting Refuges, Preserving Technology

Before opening a bag of seed, be sure to read and understand the stewardship requirements, including applicable refuge requirements when planting insect-protected traits as set forth in the Syngenta stewardship/technology agreement that you sign. By opening and using a bag of seed, you are reaffirming your obligation to comply with those stewardship requirements.

Refuge Calculator

The National Corn Growers Association (NCGA) in collaboration with the industry has developed a web-based calculator to help growers plan how to meet the minimum refuge requirements for each of the Bt corn products on their farm. This calculator can be accessed at **www.irmcalculator.com.**

Refuge Planting Options

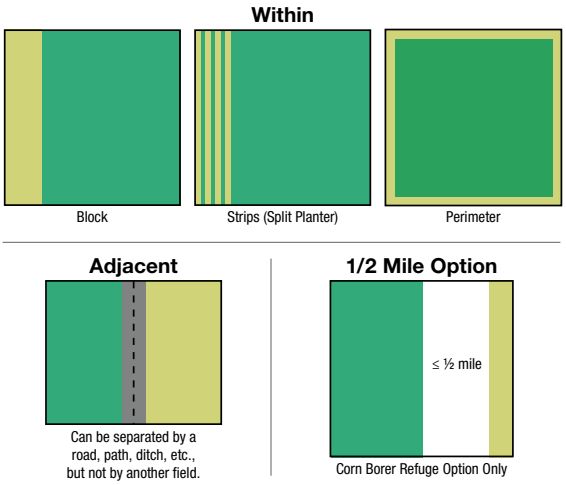
Refuge can be planted as a block, strips within the field, perimeter around the field, adjacent or a separate block within a ½ mile of the field.

- ½ mile option may only be used for corn borer refuge
- A neighbor's field does NOT meet the refuge requirements

Integrated Refuge is also an option where non-traited and Bt corn are premixed in one bag.

- Grower mixing of non-Bt seed with Bt technologies is not permitted

Reminder when calculating a refuge: the calculation must be based on total corn acres.



Corn Refuge Requirement

PRODUCT	REFUGE SIZE REQUIREMENT** (CORN-GROWING REGION)	REFUGE SIZE REQUIREMENT (COTTON-GROWING REGION)	REFUGE DISTANCE REQUIREMENTS
Agrisure GT/CB/LL*	20%	50%	Within, adjacent or up to 1/2 mile away
Agrisure 3000GT*	20%	50%	Within or adjacent
Agrisure Viptera 3110	20%	20%	Within, adjacent or up to 1/2 mile away
Agrisure Viptera* 3111	20%	20%	Within or adjacent
Agrisure Viptera 3220 E-Z Refuge	No additional refuge required	20% supplemental refuge	Within, adjacent or up to 1/2 mile away
Agrisure 3122 E-Z Refuge	No additional refuge required	20% supplemental refuge	Within or adjacent

Provided as a summary only. Grower must read the IRM Stewardship Guide prior to planting for all refuge size and distance requirements.
*The same refuge size and distance requirements are applicable to the Agrisure Artesian version of this product.
**Refuge size is calculated by applying the appropriate percentage (e.g., 5%, 20%, 50%) to the TOTAL CORN ACRES.

For questions regarding IRM and Stewardship, please call **1-877-476-2676** or visit **www.syngentastewardship.com**.

Notes

Notes

Product performance assumes disease presence.

 Important: Always read and follow label instructions. Some crop protection products may not be registered for sale or use in all states or counties. Please check with your local extension service to ensure registration status.

Besiege, Bicep II Magnum, Bicep Lite II Magnum, Callisto Xtra, Endigo ZC, Force 3G, Force CS, Gramoxone Inteon, Gramoxone SL, Gramoxone SL 2.0, Lexar EZ, Lumax EZ and Warrior II with Zeon Technology are Restricted Use Pesticides.

Besiege, Endigo ZC and Warrior II with Zeon Technology are highly toxic to bees exposed to direct treatment on blooming crops and weeds. Do not apply these products or allow them to drift onto blooming plants while bees are foraging adjacent to the treatment area.

Avicta Complete Beans 500FS, Avicta Complete Corn 250 and Avicta Complete Corn 500 are Restricted Use Pesticides. For use by certified applicators only. Growers planting Avicta treated seed are not required to be certified applicators. Avicta technology is protected by U.S. Patent No. 6,875,727.

Clariva Complete Beans is an on-seed application of Clariva pn nematicide, Vibrance fungicide and a CruiserMaxx Beans insecticide/fungicide.

CruiserMaxx Alfalfa is an on-seed application of Cruiser Alfalfa insecticide and Apron XL and Maxim 4FS fungicides. Pollinator Precautions: Thiamethoxam, the active ingredient in Cruiser Alfalfa, is highly toxic to bees, and effects are possible as a result of exposure to translocated residues in blooming crops. To mitigate this potential exposure, the first cutting of alfalfa should occur before bloom. Do not use a Cruiser rate that will result in more than 0.022 lb. thiamethoxam per acre (10 grams a.i./A) per season.

CruiserMaxx Beans is an on-seed application of one of the following: CruiserMaxx; CruiserMaxx Advanced; CruiserMaxx and Apron XL; Cruiser 5FS, Maxim XL and Apron XL; or Cruiser 5FS and an ApronMaxx brand fungicide, such as ApronMaxx RFC.

CruiserMaxx Corn is an on-seed application of Cruiser 5FS insecticide and Maxim Quattro fungicide.

CruiserMaxx Sunflower is an on-seed application of Cruiser 5FS insecticide and four fungicides: Apron XL, Bion, Maxim 4FS and Dynasty.

Syngenta supports a FIFRA Section 2(ee) recommendation for Warrior II with Zeon Technology at 1.28-1.92 fl. oz./A in sunflower to control flea beetle in CO, KS, MN, MT, ND, NE, SD, WY. Syngenta supports a FIFRA Section 2(ee) recommendation for Warrior II with Zeon Technology at 0.96-1.92 fl. oz./A in sunflower (grown for oil only) to control red sunflower seed weevil (adult) in ND and SD. This 2(ee) recommendation is not in force for controlling pests in sunflower grown for confectioner purposes.

PVPA 1994 - Unauthorized propagation prohibited. Plant variety protection applied for or granted for Syngenta varieties.

[1] Syngenta research trials, 2008-2011.

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ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready® crops contain genes that confer tolerance to glyphosate, the active ingredient in Roundup® brand agricultural herbicides. Roundup® brand agricultural herbicides will kill crops that are not tolerant to glyphosate. Genuity Design,® Genuity Icons, Genuity,® Roundup Ready® and Roundup® are trademarks of Monsanto Technology LLC. **Individual results may vary**, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible.

GoldenHarvest® Corn

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