



SOYBEAN AND WHEAT

PRODUCT GUIDE



SOYBEAN PRODUCTS



Verified Quality by THE NEBRASKA CROP IMPROVEMENT ASSOCIATION

- Seed fields inspected for purity and quality prior to harvest
- Laboratory tested seed lots by Registered Seed Technicians
- Cleaned and bagged by Certified Approved Seed Conditioners



DuPont™
STS®

herbicide tolerant gene

STS® is a tolerance gene that allows aggressive rates of either Synchrony® XP herbicide or Harmony® SG herbicide tank mixed with glyphosate in post, in-crop applications. This provides a simple, cost-effective weed control option for tough weeds such as lambsquarters, marestail, morning glory, ragweeds, yellow nutsedge, and many other broadleaf or sedge weeds in soybeans. Contact your local DuPont™ agriculture retailer or local sales representative for details. Always read and follow all label directions and precautions for use.

8213 GT

2.1 RM

Variety Description

- Early group II leader that out yields many later group II varieties
- Widely adapted to many environments
- Nice height with good standability



notes:

8261 GT

2.7 RM

Variety Description

- High yielding mid-group II
- Very good standability and Phytophthora tolerance
- Extensive regional testing with consistently high yield result across Nebraska

GLYPHOSATE
TOLERANT



notes:

8294 GT

2.8 RM

Variety Description

- Great tolerance to Iron Chlorosis
- Fits all soil types
- Good Phytophthora tolerance



notes:

8297 GT

2.8 RM

Variety Description

- Excellent tolerance to high pH soils
- Great standability and the "k" gene for Phytophthora
- Very attractive medium-tall plant with good side branching

GLYPHOSATE
TOLERANT



notes:

8290 GT

3.0 RM

Variety Description

- Emergences and stands well
- A consistent, widely adapted variety
- Years of solid performance across Nebraska



notes:

8339 GT

3.3 RM

Variety Description

- True western variety that brings consistently high yields to Nebraska and Kansas
- Above average protein/oil content
- Big yielder for a medium plant type

GLYPHOSATE
TOLERANT



notes:

8347 GT

3.4 RM

Variety Description

- Early to mid-group III Glyphosate tolerant variety
- Excellent performance in high yielding environments
- Resistant to Phytophthora Root Rot

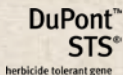


notes:

8341 GT/STS 3.5 RM

Variety Description

- Average plant height with strong lateral branching
- Consistent regional yields east to west
- Stacked with STS®



notes:

8381 GT

3.8 RM

Variety Description

- Yields with industry leading varieties
- Solid defensive package: SCN, Rps1k and very good SDS
- Medium height with good branching



notes:

SOYBEAN PRODUCTS

Soybean Variety	Relative Maturity	Standability	Height	Emergence	Plant Type	White Mold Tolerance	Phytophthora Tolerance
8213 GT	2.1	8.0	M	7.0	M	8.0	7.0
8261 GT	2.7	8.0	M	-	M	-	7.0, Rps1k
8294 GT	2.8	7.0	MT	7.0	MB	7.0	7.0, Rps1c
8297 GT	2.8	8.0	M	8.0	M	7.0	7.0, Rg1k
8290 GT	3.0	8.0	MT	-	MB	-	-
8339 GT	3.3	8.0	M	-	M	-	S
8347 GT	3.4	8.0	M	-	M	-	7.0, Rps1k
8341 GT/ STS	3.5	8.0	M	9.0	M	8.0	8.0
8381 GT	3.8	8.0	M	9.0	M	7.0	8.0

Rating Scale: 9 = Excellent, 1 = Poor Height: M = Medium, MT = Medium-Tall
 Plant Type: M = Medium, MB = Medium-Bush

HIGH QUALITY SEED

High pH Tolerance	Hilum Color	Brown Spot Resistance	SCN	Pod Color	Pubescence Color	Flower Color	Protein	Oil
6.0	BL	R, 8.0	-	BR	LTW	W	42.1	20.6
5.0	BU	-	-	GR	BR	P	-	-
6.0	IBL	MR	S	BR	GR	P	-	-
7.0	BL	7.0	-	BR	LTW	W	40.5	20.5
4.0	BL	-	-	BR	GR	P	34.2	18.9
6.0	BR	-	-	BR	TW	P	-	-
5.0	IBL	-	S	TN	GR	P	34.5	19.4
6.0	IBL	-	8.0	BR	GR	P	40.2	21.0
7.0	BL	6.0	8.0, Rps1k	TN	LTW	W	40.6	22.1

Color: IBL = Imperfect Black, BL = Black, GR = Gray, BU = Buff, BR = Brown, TN = Tan, TW = Tawny, LTW = Light Tawny, W = White, P = Purple

SOYBEAN PRODUCTS



Genuity® Roundup Ready 2 Yield® soybeans have demonstrated a clear yield advantage: They yield an average 4.5 Bu/A advantage over original Round Ready soybeans. Studies show that Roundup Ready 2 Yield soybeans develop greater root biomass, more nodes on the main stem and larger shoot biomass than original Roundup Ready® soybean products.



Roundup Ready 2 Xtend® Soybeans are built on the high yielding Roundup Ready 2 Yield® soybean technology. Roundup Ready 2 Xtend® is the industry's first biotech-stacked soybean trait with both dicamba and glyphosate herbicide tolerance. With tolerance to glyphosate and dicamba, farmers will have access to additional tools to help control glyphosate-resistant broadleaf weeds such as Palmer amaranth, waterhemp and marestail, along with other tough-to-control broadleaf weeds such as lambsquarters and velvetleaf. The technology offers the yield and quality potential that farmers already know and trust from their Roundup Ready 2 Yield® soybeans.



GT27 is not tolerant to all HPPD herbicides. HPPD herbicides currently on the market are prohibited for use with GT27 soybeans and may result in significant crop injury. Always read and follow label directions. GT27 is a trademark of MS Technologies and Bayer. MS Technologies is a trademark of MS Technologies, LLC. ©2018Bayer / MS Technologies, LLC. All Rights Reserved. APN 18-INT-0014

9222 RR2

2.2 RM

Variety Description

- Wide adaptability
- Excellent SDS rating
- Full canopy, excellent branching, full of pods



notes:

9288 R2X

2.8 RM

Variety Description

- Outstanding performance
- Good height and width
- Great Phytophthora tolerance

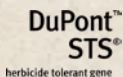


notes:

9290 RR2/STS 2.9 RM

Variety Description

- Consistent yield performer
- Medium-bush plant type with strong White Mold tolerance
- Good emergence and stand



notes:

9294 RR2

2.9 RM

Variety Description

- Bushy plant type
- Great defensive package with SCN resistant
- Maximizes yield in high output soils



notes:

9299 BGT

2.9 RM

Variety Description

- Medium height with intermediate branching
- Great standability and emergence
- SCN with very good SDS tolerance



notes:

9314 RR2

3.1 RM

Variety Description

- Rugged plant type
- Consistent performer on all soil types
- SCN and Phytophthora resistance



notes:

9337 RR2

3.3 RM

Variety Description

- Excellent emergence and disease resistance
- Medium-tall with strong branching
- Strong yielder in many different environments



notes:

9369 R2X

3.6 RM

Variety Description

- Medium-tall variety with good standability
- Very consistent up and down the row
- Nice rugged, blocky appearance



notes:

9384 RR2

3.8 RM

Variety Description

- SCN with excellent SDS
- Attractive with great harvestability
- Wide adaptation across soils and yield environments



notes:

3121 STS

3.1 RM

Variety Description

- STS[®] soybean offers greater weed management flexibility in a conventional variety
- Early group III maturity with strong yield performance
- Excellent standability and Phytophthora resistance

DuPont[™]
STS[®]

herbicide tolerant gene



notes:

3347 C

3.3 RM

Variety Description

- Early group III conventional
- Excellent performance in high yielding environments
- Top yielder in both dryland and irrigated tests



notes:

SOYBEAN PRODUCTS

Soybean Variety	Relative Maturity	Standability	Height	Emergence	Plant Type	White Mold Tolerance	Phytophthora Tolerance
9222 RR2	2.2	7.0	M	8.0	MB	7.0	7.0
9288 R2X	2.8	6.0	MT	7.0	MB	5.0	8.0, Rps3a + 1c
9290 RR2/ STS	2.9	8.0	M	8.0	M	8.0	7.0, Rg1k
9294 RR2	2.9	8.0	M	9.0	B	-	7.0, Rps1k
9299 BGT	2.9	8.0	M	9.0	M	-	8.0
9314 RR2	3.1	5.0	MT	7.0	MB	-	6.0, Rps1c
9337 RR2	3.3	7.0	M	9.0	M	6.0	8.0, Rc
9369 R2X	3.6	7.0	MT	8.0	M	5.0	6.0, Rps1c
9384 RR2	3.8	6.0	MT	7.0	MB	-	7.0
3121 STS	3.1	8.0	M	8.0	M	8.0	7.0
3347 C	3.3	8.0	M	-	M	-	S

Rating Scale: 9 = Excellent, 1 = Poor Height: M = Medium, MT = Medium-Tall
 Plant Type: M = Medium, MB = Medium-Bush

HIGH QUALITY SEED

High pH Tolerance	Hilum Color	Brown Spot Resistance	SCN	Pod Color	Pubescence Color	Flower Color	Protein	Oil
6.0	IBL	7.0	S	BR	GR	P	-	-
6.0	BR	MR, 8.0	R3, MR14	BR	LTW	P	41.0	22.5
6.0	BL	-	-	BR	LTW	W	43.7	19.6
8.0	IBL	-	8.0	TN	GR	P	-	-
7.0	BL	-	7.0	BR	LTW	P	-	-7.0
7.0	BL	-	MR3	BR	BR	W	-	-
7.0	IBL	7.0	8.0	BR	GR	P	-	-
6.0	IBL	MR	R3, MR14	BR	GR	P	-	-
5.0	BL	-	R3, R14	TN	LTW	W	-	-
6.0	BR	5.0	-	BR	LTW	W/P	42.8	19.5
5.0	BL	-	S	BR	TW	P	35.2	19.2

Color: IBL = Imperfect Black, BL = Black, GR = Gray, BU = Buff, BR = Brown, TN = Tan, TW = Tawny, LTW = Light Tawny, W = White, P = Purple

Camelot

Camelot is a hard red winter wheat cultivar selected from the cross KS91H184/Arlin Sib//KS91HW29/3/NE91631/4/VBF0168. Camelot is a medium late maturing semi-dwarf wheat with a plant height similar to Millennium. Camelot has good straw strength and good winter hardiness. Camelot is moderately resistant to stem, leaf, stripe rust, and Hessian fly. It also is slightly more tolerant to Fusarium head blight (scab). It is moderately susceptible to wheat soil borne mosaic virus and susceptible to barley yellow dwarf virus and wheat streak mosaic virus. Camelot was developed cooperatively by the Nebraska Agricultural Experiment Station and the USDA-ARS. It will be marketed by NuPride Genetic Network. Non-complementary varieties include Hatcher and 2137. U.S. Protected Variety (PVPA 1994). Certificate No. 200900314. Camelot can only be sold as a class of certified seed.



Infinity CL

Infinity CL is a medium maturing, semi-dwarf variety selected from the cross Windstar//Millennium/Above. The mature plant height is shorter than Millennium and taller than Wesley. Infinity CL is an awned, white-glumed cultivar with moderate straw strength, similar to Wahoo, but worse than Wesley. It is moderately resistant to stem rust, leaf rust, and stripe rust. It is susceptible to Hessian fly and Wheat Soilborne Mosaic virus. Infinity was developed and released by the University of Nebraska Agricultural Experiment Station. The Stewardship Program requires the grower must purchase Certified Infinity CL wheat seed and must agree not to save seed for planting. Any unauthorized planting of the Infinity CL variety will be punishable under the U.S. Patent law. Infinity CL is available from NuPride Genetics Network Affiliates. U.S. Protected Variety (PVPA 1994). Certificate No. 200600172. Infinity can only be sold as a class of certified seed.



Settler CL

Husker Genetics SETTLER CL Brand (NH03614 CL) - Husker Genetics Settler CL Brand is a moderately late maturing, semi-dwarf hard red winter wheat selected from the cross Wesley sib//Millennium sib/Above sib . The mature plant height of Settler CL is shorter than Harding and taller than Wesley. Settler CL is an awned, ivory-glumed cultivar with moderate straw strength, less than Wesley and superior to Infinity CL. The winter hardiness is good to very good. Settler CL is moderately resistant to stem rust and wheat soilborne mosaic virus. It is moderately susceptible to leaf rust, stripe rust, and Hessian fly. Settler CL also is slightly less susceptible to Fusarium head blight than many widely grown lines. It is susceptible to wheat streak mosaic virus. Settler CL was developed and released by the University of Nebraska Agricultural Experiment Station. The Stewardship Program requires the grower must purchase Certified Settler CL wheat seed and must agree not to save seed for planting. Any unauthorized planting of the Settler CL variety will be punishable under the U.S. Patent law. Settler CL is available from NuPride Genetics Network Affiliates. U.S. Protected Variety (PVPA 1994). Certificate No. 200900104. Settler can only be sold as a class of certified seed.



HIGH QUALITY SEED

COMING SOON

NUPRIDE GENETICS SIEGE WHEAT

Siege Hard Red Winter Wheat is a narrowly adapted wheat to Eastern and Southcentral Nebraska where its grain yield, disease resistance, and straw strength make it particularly attractive. It is resistant or moderately resistant to leaf rust, stripe rust, stem rust and wheat soilborne mosaic virus. It is also resistant to the current field races of Hessian fly. It is a semi-dwarf with very good straw strength and consistent high grain yield where it is adapted good test weight. Its end use quality is acceptable. Certified seed will be available in 2019 to 2020.

WORTH THE WAIT: NHH144913-3

TWO GENE CLEARFIELD® WHEAT

NHH144913-3 seems to have very broad adaptation to the Northern Great Plains where it was the third highest yielding lines in the 2017 Northern Regional Performance Nursery. It is resistant to wheat soilborne mosaic virus, moderately resistant to stem and stripe rust, moderately susceptible to leaf rust and susceptible to Hessian fly. It is genetically lower in test weight and acceptable for baking quality based upon the tests so far. Certified seed will be available in 2019.



Clearfield Plus

Production System for Wheat

SOYBEAN PIRACY STATEMENT

Seed containing a patented trait can only be used to plant a single commercial crop from which seed cannot be saved and replanted. Examples of seed containing a patented trait include but are not limited to Genuity® Roundup Ready 2 Yield® soybeans, Roundup Ready 2 Xtend® soybeans, Genuity® Roundup Ready® spring canola, and Genuity® Roundup Ready® winter canola. Additional information and limitations on the use of these products are provided in the Monsanto Technology Stewardship Agreement and the Monsanto Technology Use Guide. U.S. patents for Monsanto technologies can be found at the following webpage: <http://www.monsantotechnology.com>

Monsanto Company is a member of Excellence Through Stewardship® (ETS). Monsanto products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Monsanto's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. Certain products have been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. **Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Growers should refer to <http://www.biotradestatus.com/> for any updated information on import country approvals.** Excellence Through Stewardship® is a registered trademark of Biotechnology Industry Organization.

ALWAYS READ AND FOLLOW DIRECTIONS FOR USE ON PESTICIDE LABELING. IT IS A VIOLATION OF FEDERAL AND STATE LAW to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba or glyphosate are approved for in-crop use with Roundup Ready 2 Xtend® soybeans. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION. IN CROP USES MAY NOT BE APPROVED IN ALL STATES. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with Roundup Ready 2 Xtend® soybeans.

HIGH QUALITY SEED

Roundup Ready 2 Xtend® soybeans contains genes that confer tolerance to glyphosate and dicamba. Glyphosate will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Contact your Monsanto dealer or refer to Monsanto's Technology Use Guide for recommended weed control programs.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.

Roundup Ready® technology contains genes that confer tolerance to glyphosate, an active ingredient in Roundup® brand agricultural herbicides. Agricultural herbicides containing glyphosate will kill crops that are not tolerant to glyphosate.

Performance may vary from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields.

Roundup Ready 2 Xtend®, Genuity®, Roundup Ready 2 Yield®, Roundup®, and Roundup Ready® are trademarks of Monsanto Technology LLC.

DuPont™ STS® logo is a registered trademark of E.I. du Pont **STS®** de Nemours and Company. DuPont™ and STS® are herbicide tolerant gene trademarks of DuPont or its affiliates. STS® is a tolerance gene that allows aggressive rates of either Synchrony® XP herbicide or Harmony® SG herbicide tank mixed with glyphosate in post, in-crop applications. This provides a simple, cost-effective weed control option for tough weeds such as lambsquarters, marestail, morning glory, ragweeds, yellow nutsedge, and many other broadleaf or sedge weeds in soybeans. Contact your local DuPont™ agriculture retailer or local sales representative for details. Always read and follow all label directions and precautions for use.

Clearfield® and Headline® are registered trademarks of BASF Agrochemical Products B.V.

Think Before You Bin-Run

Verification Required

Most soybeans are still covered by a variety patent, and you will not be able to save and plant the seed from those varieties without a license giving you that added right. Check with your seed supplier before saving.

Higher Seeding Rate

Higher seeding rates may be required for bin-run compared to new branded seed.

Yield Loss

Genuity® Roundup Ready 2 Yield® soybean seed outyielded bin-run Roundup Ready® soybeans by 6.1 bu/A.1

Cleanout Loss

Loss of seed or shrink occurs during seed cleaning and handling processes for bin-run seed.

Lost Income

Income lost by not selling a bushel of soybeans that is saved for planting the next year.

High Value of New Branded Seed

Latest Technology

- Highest yielding soybean technology available
- Six soybean trait products anticipated to come from Monsanto in the next 2-7 years*
- Leading seed treatment options

Customer Service

- Dealer agronomic support before and after the sale
- Replant policy support
- Convenient packaging and delivery

Reliable Germination and Quality

- Rigorously tested for quality and meets US Federal Seed Act requirements
- Free of seed-borne diseases
- Properly stored and conditioned

*Pending regulatory approvals.

¹First year results of 2-year protocol study with independent cooperators across 8 locations examining the yield differences of saved Roundup Ready soybeans versus newly purchased Roundup Ready 2 Yield soybeans.

HIGH QUALITY SEED

The higher yielding trait technology of Roundup Ready 2 Yield soybeans showed a 6.1 bushel per acre advantage over original Roundup Ready soybeans.

>6.1

For more information about seed technology, visit ASTA's **Beyond the Seed Program** at www.beyondtheseed.org. ASTA, as a trade industry association, does not endorse products, services or technology of individual companies.

Monsanto receives hundreds of calls and letters nationwide each year about potential seed compliance matters. Anyone with concerns or questions can anonymously call 1-800-768-6387, Option 2.

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Monsanto products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Monsanto's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. This product has been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Excellence Through Stewardship® is a registered trademark of Biotechnology Industry Organization.

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.

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®, Monsanto and Vine Design®, Roundup Ready 2 Yield®, Roundup Ready®, and Roundup® are registered trademarks of Monsanto Technology LLC. All other trademarks are the property of their respective owners. ©2015 Monsanto Company. 32219 3J8L149893

www.beyondtheseed.org

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<http://necrop.org/indexngn.html>