

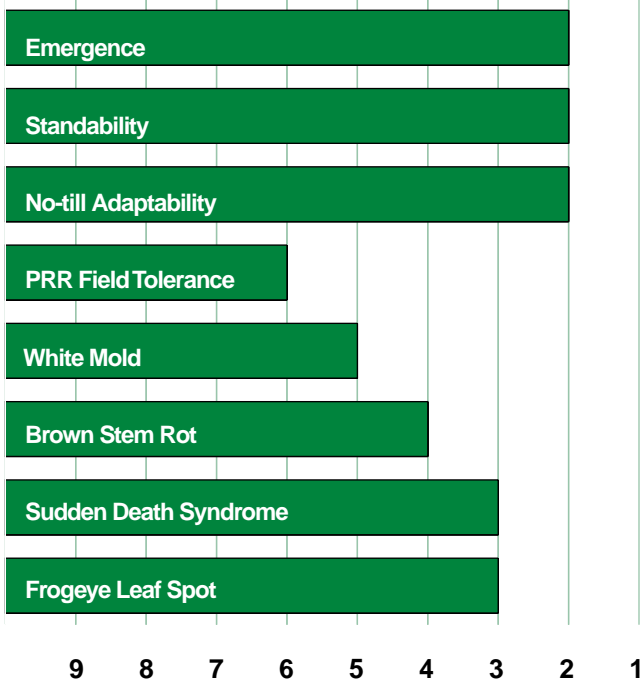


# 3141R2X Brand EARLY III



3141R2X Brand

EARLY III



### Key Strengths

- Tall plant with excellent standability, great choice for all row widths
- Has exhibited very good Sudden Death Syndrome tolerance in the field
- Strong performance with great versatility across the brand footprint

### Management Tips

Patented germplasm is licensed only to grow a single commercial crop of harvested material for use or sale for food, feed, processing or fiber. No license is granted for subsequent generations of seed or plants for any purpose.

### Product Brand Characteristics

Category	Characteristic	Value
MANAGEMENT	Maturity Group	3
	Relative Maturity	3.1
	Herbicide Tolerant Trait	RR2X
PLANT DESCRIPTION	Canopy	M
	Growth Habit	I
	Flower Color	P
	Pubescence Color	G
	Hilum Color	IB
	Pod Wall Color	BR
	Plant Height Category	T
	Protein Content @ 13%	35.8
	Oil Content @ 13%	17.6
PRODUCTION	Emergence	2
	Standability	2
	No-till Adaptability	2
	Iron Chlorosis	-
DISEASES/INSECTS	Soybean Cyst Nematode	MR3
	PRR Resistance	Rps1c
	PRR Field Tolerance	6
	White Mold	5
	Brown Stem Rot	4
	Sudden Death Syndrome	3
SENSITIVITY	Frogeye Leaf Spot	3
	Chloride Sensitivity	Inc.

Based on Specialty conducted trials. Relative to other Specialty brand products. Rating Scale: Excellent 1 Poor 9. Tolerance ratings refer to PRR races not covered by specific PRR resistant genes.

• As of this printing no dicamba herbicide product has been approved for commercial in-crop use with Roundup Ready 2 Xtend<sup>®</sup> soybeans.  
 • **DO NOT APPLY DICAMBA HERBICIDE IN-CROP TO Roundup Ready 2 Xtend<sup>®</sup> Soybeans IN 2016 unless you use a dicamba herbicide product that is specifically labeled for that use in the location where you intend to make the application.**

## Specialty Brand Soybean Legend

### Rating Scale:

1-2 = Excellent      3-4 = Very Good  
 5-6 = Good          7-8 = Fair  
 9 = Poor              N/A = Not Available

A rating of "1" in standability is a soybean product with excellent standability. A rating of "1" in brown stem rot is a product with excellent tolerance to brown stem rot.

### Soybean Cyst Nematode

R = Resistance  
 MR = Moderate Resistance  
 MR/MS = Moderate Resistance to Moderately Susceptible  
 S = Susceptible  
 # = Race 1, 3, 5, 9 or 14

A recent publication suggests that soybean cyst nematode populations should be described by a different method called HG type, instead of races. The Race 3 population used in our evaluations would be equivalent to "HG Type 0" and the Race 14 population would be equivalent to "HG Type 1.3" under the direction of the paper.

### White Mold

White mold, caused by *Sclerotinia sclerotiorum*, is a soybean disease for which there is currently no known form of complete genetic resistance. Scores represent relative levels of tolerance to the disease, as outlined below.

<4 = Very Good  
 4 = Good  
 5 = Above Average  
 6 = Average  
 7 = Below Average  
 >7 = Poor

### Canopy

Th = Thin  
 M = Medium  
 MB = Medium Bushy  
 B = Bushy

### Phytophthora Gene Specific Resistance

Susc. = Susceptible  
 Rps1<sup>®</sup> denotes resistance to Races 1, 2, 10, 11, 13-18, 24, 26, 27, 31, 32 & 36.  
 Rps1<sup>°</sup> denotes resistance to Races 1-3, 6-11, 13, 15, 17, 21, 23, 24, 26, 28-30, 32, 34 & 36.  
 Rps1<sup>k</sup> denotes resistance to Races 1-11, 13-15, 17, 18, 21-24, 26, 36 & 37.  
 Rps2 denotes resistance to Races 1-5, 9-29, 33, 34, 36-39. Rps3<sup>®</sup> denotes resistance to Races 1-5, 8, 9, 11, 13, 14, 16, 18, 23, 25, 28, 29 & 31-35.  
 Rps6 denotes resistance to Races 1-4, 10, 12, 14-16, 18-21 & 25.  
 Rps7 denotes resistance to Races 2, 12, 16, 18, 19, 33, 35 & 36.

### Phytophthora Field Tolerance

Phytophthora field tolerance is a form of partial genetic resistance whereby the plant can maintain some level of productivity while infected with the pathogen. Phytophthora field tolerance scores represent relative responses to the following races of Phytophthora sojae.

Reaction to Phytophthora sojae Race 25 for products with Rps1<sup>®</sup>, Rps1<sup>°</sup>, Rps1<sup>k</sup> and Rps7.

Reaction to Phytophthora sojae Race 17 and/or Race 30 for products with Rps2, Rps3<sup>®</sup> and Rps6.

Phytophthora field tolerance scores indicate the following levels of tolerance:

<4 = Very Good  
 4 = Good  
 5 = Above Average  
 6 = Average  
 7 = Below Average  
 >7 = Poor

### Pubescence

G = Gray  
 T = Tawny  
 LT = Light Tawny

### Flower Color

P = Purple  
 W = White

### Traits

CONV = Conventional  
 GENRR2Y=Genuity<sup>®</sup> Roundup Ready 2 Yield<sup>®</sup>  
 RR2X = Roundup Ready 2 Xtend<sup>™</sup>  
 SR = Sulfonyleurea Ready (Sulfonyleurea-based Herbicide Tolerance)  
 VG = Vistive<sup>®</sup> Gold

### Chloride Sensitivity

Inc. = Includer  
 Exc. = Excluder

Excluder products have increased tolerance to elevated soil chloride levels compared to includers. Excluder products partition chloride in root systems and reduce the amount transported to more sensitive above-ground tissue.

### Southern Root Knot

R = Resistant  
 MR = Moderately Resistant  
 MS = Moderately Susceptible  
 S = Susceptible

### Hilum Color

BL = Black  
 G = Gray  
 IB = Imperfect Black  
 IY = Imperfect Yellow  
 BR = Brown  
 BF = Buff  
 Y = Yellow  
 M = Mix

### Pod Wall Color

BR = Brown  
 TN = Tan

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Roundup Ready 2 Xtend<sup>™</sup> soybeans has been approved for cultivation in the U.S. and Canada, and for import in Australia/New Zealand, Colombia, China, Japan, Korea, Mexico, Taiwan, and Vietnam. The single events in this product have been approved for import in the EU. As of February 2, 2016, E.U. stack approval is in the final stage of approval and is expected but not guaranteed to be received in the near future. Growers should refer to <http://www.biotradestatus.com/> for any updated information on import country approvals.

**Roundup Ready 2 Xtend<sup>™</sup> soybeans contains genes that confer tolerance to glyphosate and dicamba.** Glyphosate herbicides 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 Roundup Ready<sup>®</sup> Xtend Crop System weed control programs.

At this time, Vistive<sup>®</sup> Gold soybeans have received full approval for planting in the United States but have not yet received import approval in certain export markets. While certain export approvals are pending, Vistive<sup>®</sup> Gold soybeans will be available in limited geographies only to growers who have signed a 2016 Vistive<sup>®</sup> Gold Soybean Grain Production Grower Agreement and agree to follow the stewardship requirements. Upon receipt of appropriate approvals, Monsanto will inform growers and determine whether the stewardship requirements will need to remain in place.

**Monsanto Company is a member of Excellence Through Stewardship<sup>®</sup> (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. Excellence Through Stewardship<sup>®</sup> 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.

For more information regarding the intellectual property protection for the seed products identified in this publication, please see [www.asgrowanddekalb.com](http://www.asgrowanddekalb.com).

**ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.** Roundup Ready technology contains genes that confer tolerance to glyphosate, an active ingredient in Roundup<sup>®</sup> brand agricultural herbicides. Agricultural herbicides containing glyphosate will kill crops that are not tolerant to glyphosate. Genuity Design<sup>®</sup>, Genuity<sup>®</sup>, Roundup Ready 2 Xtend<sup>™</sup>, Roundup Ready 2 Yield<sup>®</sup>, Roundup Ready<sup>®</sup>, Roundup<sup>®</sup>, SR and Design<sup>®</sup>, Vistive and Design<sup>®</sup> and Vistive<sup>®</sup> are trademarks of Monsanto Technology LLC. All other trademarks are the property of their respective owners.

Specialty and Design<sup>®</sup> is a registered trademark of American Seeds, LLC.

The purchase/bailment/transfer of these seeds conveys no license under said patents to use these seeds or perform any of the methods covered by these patents. A license must first be obtained before these seeds can be used in any way. See your seed dealer to sign a Monsanto Technology/Stewardship Agreement ("MTSA"). Progeny of these seeds cannot be cleaned or used as planting seed or transferred to others for planting. These seeds may only be offered for sale and distribution by authorized seed companies or their dealers. Before opening a bag of seed, be sure you read, understand and accept the stewardship requirements for the biotechnology traits expressed in the seed as set forth in the Monsanto Technology/Stewardship Agreement that you signed. By opening and using the bag of seed, you are reaffirming your obligation to comply with the most recent stewardship requirements.

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