# **ARM YOURSELF** AGAINST YIELD-ROBBING PESTS



**EVERY KERNEL COUNTS** 

Corn Rootworm is the Billion Dollar Bug

**CORN-GROWING AREA** 

Corn Earworm can destroy up to 7% of your yield

When you're comparing corn traits, remember that only one brand is built with farmers in mind and proven in the fields: Genuity®. That's why there's no better choice than Genuity® SmartStax® RIB Complete® corn blend for acres with corn rootworm (CRW) and/or corn earworm (CEW) pressure, and Genuity® VT Double PRO® RIB Complete® corn blend for acres with CEW. Genuity corn traits deliver:

## ■ Availability — Product Choices to enable Genetic Yield Potential

Leaders in biotech development with widespread farmer experience and proven performance. Genuity corn traits are available in a broad portfolio of high-yielding genetics. This provides great flexibility in decisions and comfort in knowing the product you want is available in the trait package you want.

- Protected with Acceleron® Seed Treatment Products. SmartStax RIB Complete comes with Poncho® 500/ VOTiVO® included.
- Excellent availability of disease and stress products.

## **R**efuge — Protect More Acres

Genuity RIB Complete is the first brand to offer a full line of true refuge-in-a-bag products providing the convenience of automatic refuge compliance with the lowest refuge available in the Corn-Growing Area.

#### Modes of Action — Proven Yield Protection

Genuity corn traits have **multiple** effective built-in modesof-action critical to controlling insects that impact yield. Multiple modes give the most insect control opportunity for maximum yield and trait durability.

- SmartStax RIB Complete products provide above and below ground insect protection.
- SmartStax RIB Complete products provide an advantage over products without B.t CRW protection and/or the use of a soilapplied insecticide.
- o Yields in the table below are averages over time and can be much higher in any given season.

CRW Pressure	SmartStax RIB Complete Advantage	V.	Other
Moderate to High <sup>1</sup>	20 bu/acre²	V.	No B.t. CRW protection or soil applied insecticide
Moderate to High	10 bu/acre²	٧.	No <i>B.t.</i> CRW protection with a soil applied insecticide
Moderate to High	8 bu/acre <sup>3</sup>	V.	Single MOA for <i>B.t.</i> CRW protection
Low Pressure	8 bu/acre <sup>2</sup>	V.	No B.t. CRW protection or soil applied insecticide

control hybrid (Non-CRW B.t.).

- Control hydrol (Monte Street in IL, IA, KS, CO, NE, WI, MI, IN, MN, SD, OH, DE [2010-2013]. \*Technology Development Sites in IL, IA, KS, CO, NE, WI, MI, IN, MN, SD (2012-2013).
- Single mode-of-action products for below ground insect control may need a soil-applied insecticide, so consider cost, handling, equipment and performance of soil-applied insecticides in your purchase decision.
- SmartStax RIB Complete and VT Double PRO RIB Complete products offer multiple modes of action for above ground insect protection, including corn earworm, fall armyworm, southwestern corn borer and European corn borer (ECB).
  - Corn Earworm can destroy up to 7% of yield potential.
- Even under light infestations of ECB, yield loss can be as much as 6%.

. Citation: Krupke, C.H., et al. 2010. European corn borer in field corn. Bulletin E-17-W. Purdue University

**CORN-GROWING AREA** 

# **ARM YOURSELF AGAINST YIELD-ROBBING PESTS**

ABOVE AND BELOW GROUND	<b>A</b> vailability	<b>R</b> efuge	<b>M</b> odes	
Product	Abbrev.	Years on Farm*/ Availability**	Refuge-in-bag	Modes of Action for Rootworm/Earworm***
Genuity® SmartStax® RIB Complete® Corn Blend	SSRIB	5/Broad	5% Refuge-in-bag	Two/Two
Genuity® VT Triple PRO® RIB Complete® Corn Blend	VT3PRIB	5/Broad	10% Refuge-in-bag	One/Two
Agrisure Duracade® 5222 E-Z Refuge®		X No China Approval	5% Refuge-in-bag	Two/One
Optimum® AcreMax® Xtreme	AMXT	3/Limited	5% Refuge-in-bag	Two/ <b>X</b>
Agrisure® 3122 E-Z Refuge®		3/Limited	5% Refuge-in-bag	Two/ <b>X</b>
Optimum® AcreMax® Xtra	AMX	4/Broad	10% Refuge-in-bag	One/ <b>X</b>
Optimum® AcreMax® TRIsect®	AMT	<1/Limited	10% Refuge-in-bag	One/ <b>X</b>
Optimum® Intrasect® Xtreme	CYXR	3/Limited	5% Structured	Two/ <b>X</b>
Agrisure Viptera® 3111		<1/Broad	20% Structured	One/One
Herculex® Xtra	XR or HXX	>5/Broad	20% Structured	One/ <b>X</b>
Optimum® AcreMax® 1	AM1	5/Broad	20% Structured	One/ <b>X</b>
Optimum® Intrasect® XTRA	YXR	4/Limited	20% Structured	One/ <b>X</b>
Optimum® TRIsect®	CHR	4/Limited	20% Structured	One/ <b>X</b>

<sup>\*</sup>Length of time since products received approval in the United States and import approvals in key export markets and China as of 3/1/2015.

\*\*Availability refers to the amount of farmer experience based on U.S. planted acres.

\*\*\* Pioneer claims suppression of corn earworm on the Optimum® AcreMax® 1, Optimum® AcreMax® and Optimum® AcreMax® Xtreme labels. Syngenta claims suppression of corn earworm with 8111.

ABOVE GROUND		<b>A</b> vailability <b>R</b> efuge		Modes
Product	Abbrev.	Years on Farm*/ Availability**	Refuge-in-bag	Modes of Action for Earworm***
Genuity® VT Double PRO® RIB Complete® Corn Blend	VT2PRIB	5/Broad	5% Refuge-in-bag	Two
Agrisure Viptera® 3220 E-Z Refuge®		<1/Limited	5% Refuge-in-bag	One
Optimum® AcreMax®	AM	4/Broad	5% Refuge-in-bag	X
Optimum® Leptra®	VYHR	<1/Limited	5% Structured	One
Optimum® Intrasect®	YHR	4/Limited	5% Structured	X
Agrisure Viptera® 3110	BVT	<1/Limited	20% Structured	One
Herculex® 1	HR or HX1	>5/Broad	20% Structured	X

<sup>\*</sup>Length of time since products received approval in the United States and import approvals in key export markets and China as of 3/1/2015.

\*\*Availability refers to the amount of farmer experience based on U.S. planted acres.
\*\*\*Pioneer claims suppression of corn earworm on the Optimum® AcreMax® label. Synoenta claims suppression of corn earworm with *Bt11*.

## When comparing corn traits, consider both cost and performance differences



Before opening a bag of seed, be sure to read, understand and accept the stewardship requirements, including applicable refuge requirements for insect resistance management, for the biotechnology traits expressed in the seed as set forth in the Monsanto Technology/Stewardship Agreement that you sign. By opening and using a bag of seed, you are reaffirming your obligation to comply with the most recent stewardship requirements.





For more information, visit genuity.com

X = None

X = None

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. Commercialized 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.

B.t. products may not yet be registered in all states. Check with your Monsanto representative for the registration status in your state.

IMPORTANT IRM INFORMATION: Genuity® RIB Complete® corn blend products do not require the planting of a structured refuge except in the Cotton-Growing Area where corn earworm is a significant pest. See the IRM/Grower Guide for additional information. Always read and follow IRM requirements.

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. Acceleron®, Genuity Design®, Genuity Densign®, and VT Triple PRO® are trademarks of Monsanto Technology LLC. LibertyLink and the Water Droplet Design®, Poncho® and VOTIVO® are registered trademarks of Roundup Ready®, Roundup Ready