

# SmartStax® PRO

With **RNAi** TECHNOLOGY

**SMARTSTAX® PRO WITH RNAI TECHNOLOGY IS THE NEXT GENERATION OF CORN ROOTWORM CONTROL**

The best way to minimize the risk of devastating crop damage is to help maximize control of high-pressure corn rootworm\* below ground while protecting against above-ground pests. SmartStax® PRO with RNAi Technology will provide three modes of action against corn rootworm.

## WHAT SETS SMARTSTAX PRO TECHNOLOGY APART

- Will be the first product with **THREE** modes of action for corn rootworm control
- Will combine the proven benefits of **SmartStax® Technology** with an additional, RNAi-based mode of action
- SmartStax® PRO Technology will provide broad-spectrum control of **above- and below-ground pests as well as tolerance to glyphosate and glufosinate herbicides**

## QUANTIFYING THE DAMAGE

Root damage is primarily caused by corn rootworm larval feeding. Every root node nibbled by larvae can result in a yield loss of approximately 15%.<sup>1</sup> In addition, root lodging can impede harvesting, further reducing grain yield by 15%–34%.<sup>2</sup>

HEALTHY ROOT



DAMAGED ROOT

15%–34% yield loss from root damage by corn rootworm



## EXCEPTIONAL ABOVE- AND BELOW-GROUND PROTECTION

Multiple modes of action give corn plants the protection they need against major pests that can inflict serious crop damage.



CORN ROOTWORM (NORTHERN & WESTERN)



EUROPEAN CORN BORER



FALL ARMYWORM



CORN EARWORM



BLACK CUTWORM

\*34 2021 Bayer Trials in the corn belt (KS, CO, NE, IA, IL, IN, OH, MN) in medium to very high CRW pressure environments (as shown by a Node Injury Score of 0.76–3.0 on a 0–3 scale in the non-CRW treated check) vs SmartStax® RIB Complete® Corn Blend, Agrisure Duracade® E-Z Refuge®, Drome® and Optimum® AcreMax® Xtreme products in the 95–115 RM range with comparable trait packages

1. Journal of Applied Entomology 137 (2103): Validation of a nested error component model to estimate damage caused by corn rootworm larvae. N.A.Tinsley, R.E.Estes & M.E.Gray.

2. Spike BP, Tolleson JJ, 1991. Yield response of corn subjected to western corn rootworm (Coleoptera:Chrysomelidae) infestation and lodging. J. econ Entomol. 84, 1585–1590.



## COMPARE YOUR CORN ROOTWORM PROTECTION OPTIONS

	Three Modes-of-Action Products for Corn Rootworm		Dual Modes-of-Action Products for Corn Rootworm		
	SmartStax® PRO RIB Complete® Corn Blend	SmartStax® RIB Complete® Corn Blend	Qrome® Products	Optimum® AcreMax® XTreme	Agrisure Duracade® 5222 E-Z Refuge®
<b>PRIMARY PESTS</b>					
Corn Rootworm (Northern & Western)	***	**	**	**	**
European Corn Borer	***	***	**	**	**
Corn Earworm <sup>1,2,3</sup>	**	**			*
Fall Armyworm	***	***	*	*	**
Black Cutworm	*	*	*	*	**
<b>HERBICIDE TOLERANCE</b>	Roundup Ready® 2 Technology and LibertyLink® Technology	Roundup Ready® 2 Technology and LibertyLink® Technology	Roundup Ready® 2 Technology and LibertyLink® Technology	Roundup Ready® 2 Technology and LibertyLink® Technology	Glyphosate and/or LibertyLink® Technology

Modes of action equal control of pest

\*\*\* Triple-mode activity   \*\* Dual-mode activity   \* Single-mode activity

<sup>1</sup>Corteva Agriscience® claims suppression of corn earworm with Herculex® Technology.

<sup>2</sup>Syngenta claims suppression of corn earworm with Bt11.

<sup>3</sup>Cry1A.105 and Cry2Ab2 from B.t. controls or suppresses corn earworm.

Bayer is a member of Excellence Through Stewardship® (ETS). Bayer products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Bayer's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. These products have been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from these products 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 these products. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

**ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.** Roundup Ready® 2 Technology contains genes that confer tolerance to glyphosate. Glyphosate will kill crops that are not tolerant to glyphosate. Bayer, Bayer Cross, RIB Complete®, Roundup Ready 2 Technology and Design®, Roundup Ready® and SmartStax® are trademarks of Bayer Group. Used under license. LibertyLink® and the Water Droplet Design are trademarks of BASF. Used under license. Herculex® is a registered trademark of Dow AgroSciences LLC. Used under license. ©2022 Bayer Group. All rights reserved.



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.



**CONTACT YOUR LOCAL SEED REPRESENTATIVE TO LEARN MORE ABOUT SMARTSTAX® PRO TECHNOLOGY.**