

# DEFEND LIKE A PRO

SmartStax<sup>®</sup> PRO is the next generation of corn rootworm control

**SmartStax<sup>®</sup> PRO**  
TECHNOLOGY

The best way to minimize the risk of devastating crop damage is to help maximize control of corn rootworm below ground while protecting against above-ground pests. SmartStax<sup>®</sup> PRO Technology will provide three modes of action against corn rootworm for the strongest biotech defense\* available in 2022.

## WHAT SETS SMARTSTAX<sup>®</sup> PRO TECHNOLOGY APART

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

## PROVEN PROTECTION FOR 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.

## 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  
Root Damage by  
corn rootworm



CORN ROOTWORM  
(NORTHERN & WESTERN)



EUROPEAN CORN BORER



SOUTHWESTERN  
CORN BORER



CORN EARWORM



FALL ARMYWORM



BLACK CUTWORM

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, 1586-1590.

\* Based upon 2019-2020 Bayer internal trials comparing leading corn rootworm technologies in fields with moderate to heavy corn rootworm pressure.

# COMPARE YOUR CORN ROOTWORM PROTECTION OPTIONS



	Three Modes-of-Action Products for Corn Rootworm		Dual Modes-of-Action Products for Corn Rootworm		
	SmartStax <sup>®</sup> PRO RIB Complete <sup>®</sup> Corn Blend	SmartStax <sup>®</sup> RIB Complete <sup>®</sup> Corn Blend	Qrome <sup>®</sup> Products	Optimum <sup>®</sup> AcreMax <sup>®</sup> XTreme	Agrisure Duracade <sup>®</sup> 5222 E-Z Refuge

## PRIMARY PESTS

Corn Rootworm (Northern & Western)	***	**	**	**	**
European Corn Borer	***	***	**	**	**
Southwestern Corn Borer	***	***	**	**	***
Corn Earworm <sup>1,2</sup>	**	**			*
Fall Armyworm	***	***	*	*	**
Black Cutworm	*	*	*	*	**
<b>HERBICIDE TOLERANCE</b>	Roundup Ready <sup>®</sup> 2 Technology and LibertyLink <sup>®</sup> Technology	Roundup Ready <sup>®</sup> 2 Technology and LibertyLink <sup>®</sup> Technology	Roundup Ready <sup>®</sup> 2 Technology and LibertyLink <sup>®</sup> Technology	Roundup Ready <sup>®</sup> 2 Technology and LibertyLink <sup>®</sup> Technology	Glyphosate and/or LibertyLink <sup>®</sup> Technology

Modes of action equal control of pest

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

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

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

Bayer is a member of Excellence Through Stewardship<sup>®</sup> (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. 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. Excellence Through Stewardship<sup>®</sup> is a registered trademark of Excellence Through Stewardship.

SmartStax<sup>®</sup> PRO RIB Complete<sup>®</sup> corn blend will be commercially available for the 2022 growing season.

**ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.** *B.t.* products may not yet be registered in all states. Check with your seed brand representative for the registration status in your state.

**IMPORTANT IRM INFORMATION: RIB Complete<sup>®</sup>** 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.**

Roundup Ready<sup>®</sup> 2 Technology contains genes that confer tolerance to glyphosate. Glyphosate will kill crops that are not tolerant to glyphosate. Herculex<sup>®</sup> is a registered trademark of Dow AgroSciences LLC. LibertyLink<sup>®</sup> and the Water Droplet Design<sup>®</sup> is a trademark of BASF Corporation. Respect the Refuge and Corn Design<sup>®</sup> and Respect the Refuge<sup>®</sup> are registered trademarks of National Corn Growers Association. RIB Complete<sup>®</sup>, Roundup Ready 2 Technology and Design<sup>®</sup>, Roundup Ready<sup>®</sup> and SmartStax<sup>®</sup> are trademarks of Bayer Group. ©2021 Bayer Group. All rights reserved.



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LEARN MORE ABOUT SMARTSTAX<sup>®</sup> PRO TECHNOLOGY