Characterizing corn insect protection technology



ABOVE-GROUND INSECT PROTECTION

		European corn borer#	Southwestern corn borer#	Black cutworm	Corn earworm#	Western bean cutworm*	Fall armyworm#	Herbicide tolerance
d portfolio	Optimum [®] AcreMax [®] PRODUCTS	+++*	+++*	++	+	-	++	glyphosate, glufosinate
	Optimum [®] AcreMax [®] Leptra [®] & Optimum [®] Leptra [®] PRODUCTS	+++*	+++*	+++*	+++	+++	+++*	glyphosate, glufosinate
Options in the Pioneer® brand portfolio	Optimum [®] Intrasect [®] PRODUCTS	+++*	+++*	++	+	-	++	glyphosate, glufosinate
Options in 1	PowerCore® Enlist® corn PRODUCTS	+++*	+++*	++	+	-	++*	2,4-D choline, glyphosate, glufosinate, FOP
	PowerCore® Ultra Enlist® corn® PRODUCTS	+++*	+++*	+++*	+++	+++	+++*	2,4-D choline, glyphosate, glufosinate, FOP
Competitive products	VT Double PRO® RIB Complete® corn	+++*	+++*	-	+	-	++*	glyphosate
	Trecepta® corn	+++*	+++*	+++	+++	+++	+++*	glyphosate
	Agrisure® 3120 E-Z Refuge® corn	+++*	+++*	++	+	-	++	glyphosate, glufosinate
	Agrisure® 3330 E-Z Refuge® corn	+++*	+++ [▼]	+++	+++	+++	+++*	glyphosate, glufosinate

⁺⁺⁺ Excellent protection

⁺⁺ Good protection + Some protection - No activity/not labelled

^{₹2} or more working modes of action

ABOVE- AND BELOW-GROUND INSECT PROTECTION

		Corn rootworm (western#, northern, Mexican)	European corn borer	Southwestern corn borer#	Black cutworm	Corn earworm#	Western bean cutworm#	Fall armyworm#	Herbicide tolerance
Options in the Pioneer® brand portfolio	Qrome* PRODUCTS	++*	+++*	+++*	++	+	ı	++	glyphosate, glufosinate
	Optimum [®] AcreMax [®] XTreme PRODUCTS	++*	+++*	+++*	++	+	ı	++	glyphosate, glufosinate
	Vorceed Enlist Corn PRODUCTS	+++*	+++*	+++*	++	+	ı	++*	2,4-D choline, glyphosate, glufosinate, FOP
Competitive products	SmartStax [®] Technology	++*	+++*	+++*	++	+	1	++*	glyphosate, glufosinate
	SmartStax® PRO Technology	+++*	+++*	+++*	++	+	-	++*	glyphosate, glufosinate
	Agrisure® Duracade® 5122 E-Z Refuge® corn	++*	+++*	+++*	++	+	-	++	glyphosate, glufosinate

+++ Excellent protection

tection ++ Good protection

+ Some protection

- No activity/not labelled

₹2 or more working modes of action

























Characterization from Internal Corteva Agriscience Attributes database.

Efficacy levels based on Corteva Agriscience and/or independent university entomologist results against susceptible insect populations. Product responses can vary by location, pest population, environmental conditions, and agricultural practices.

Please contact your Pioneer sales professional for information and suggestions specific to your operation. Individual results may vary.

Various factors, including pest pressure, reduced susceptibility, and insect resistance in some pest populations may affect efficacy of certain corn technology products in some regions. To help extend durability of these technologies, Corteva Agriscience recommends you implement Integrated Pest Management (IPM) practices such as crop rotation, cultural and biological control tactics (including rotating sources of Bt-protected corn traits), pest scouting, and appropriate use of pest thresholds when employing management practices such as insecticide application. You must also plant the required refuge when using these technologies. Please contact your sales professional or consult with your local university extension for more information regarding insect resistance management guidelines, best management practices and to understand whether there has been a shift in susceptibility or insect resistance with certain pests documented in your area. * Western bean cutworm has been removed from the Corteva Agriscience product use statement for several corn products that contain Herculex* I (Cry1F) but lack another mode of action for western bean cutworm due to a wide-spread decrease in susceptibility indicating the possibility of field-evolved resistance to Cry1F in most geographies.

†The Vorceed™ Enlist® trait and PowerCore® Ultra Enlist® trait will not be offered for sale or distribution until completion of field testing and applicable regulatory reviews.

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Agrisure® technology incorporated into these seeds is commercialized under a license from Syngenta Crop Protection AG.

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