






Above Ground Product Comparisons 2012

	Genuity® VT Double PRO™	Pioneer® Optimum™ Intrasect™	Pioneer® Optimum® AcreMax®	Syngenta® Agrisure Viptera™ 3110
European corn borer	**	**	**	*
Southwestern corn borer	**	**	**	**
Corn earworm (ear feeding) ¹	**			*
Fall armyworm	**	*	*	*
Western bean cutworm		*	*	*
Black cutworm		*	*	*
Herbicide technology	Roundup Ready® Corn 2	Roundup Ready® Corn 2, LibertyLink®	Roundup Ready® Corn 2, LibertyLink®	Glyphosate, LibertyLink®
Refuge in the Corn-Growing Area	5%	5%	5%	20%
Refuge in the Cotton-Growing Area	20%	20%	20%	20%

Trait Mode of Action (MOA) = Control of Pest * = single mode-activity ** = dual mode-activity *** = triple mode-activity ¹Pioneer claims control of Corn Earworm on the Optimum® AcreMax® 1 label, Monsanto data suggests suppression only. The Herculex® 1 label claims suppression only.

Above Ground Insect Protection Summary

	Genuity® VT Double PRO™	Genuity® VT Double PRO™ RIB Complete™ corn seed blend	Pioneer® Optimum™ Intrasect™	Pioneer® Optimum® AcreMax®	Syngenta® Agrisure Viptera™ 3110
Estimated Launch	Approved	2012	Approved	Approved	Approved
Herbicide tolerance	Glyphosate	Glyphosate	Glyphosate, Glufosinate	Glyphosate, Glufosinate	Glyphosate, Glufosinate
Refuge Required (Corn-Growing Area)	5% structured	?% RIB (Also may be offered with a structured refuge option)	5% structured	5% refuge in the bag	20% structured
Refuge Examples					



CORN INSECT PROTECTION Competitive Traits

2012

Below and Above Ground Product Comparisons 2012

	Genuity® SmartStax® RIB Complete™ corn seed blend	Genuity® VT Triple PRO™	Pioneer® Optimum® AcreMax® 1	Pioneer® Optimum® AcreMax® Xtra	Syngenta® Agrisure Viptera™ 3111
European corn borer	***	**	*	*	*
Southwestern corn borer	***	**	*	*	**
Northern corn rootworm	**	*	*	*	*
Western corn rootworm	**	*	*	*	*
Corn earworm (ear feeding) ¹	**	**			*
Fall armyworm	***	**	*	*	*
Western bean cutworm	*		*	*	*
Black cutworm	*		*	*	*
Herbicide technology	Roundup Ready® 2 Technology, LibertyLink®	Roundup Ready® 2 Technology	Roundup Ready® Corn 2, LibertyLink®	Roundup Ready® Corn 2, LibertyLink®	Glyphosate, LibertyLink®
Refuge in the Corn-Growing Area	5%	20%	10% for below ² 20% for above	10%	20%
Refuge in the Cotton-Growing Area	20%	20%	50%	50%	20%

Trait Mode of Action (MOA) = Control of Pest * = single mode-activity ** = dual mode-activity *** = triple mode-activity ¹Pioneer claims control of Corn Earworm on the Optimum® AcreMax® 1 label, Monsanto data suggests suppression only. The Herculex® 1 label claims suppression only. ²Refuge for Optimum® AcreMax® 1 is partially in the bag.

Below and Above Ground Insect Protection Summary

Product	Genuity® SmartStax® RIB Complete™ corn seed blend	Genuity® VT Triple PRO™	Pioneer® Optimum® AcreMax® 1	Pioneer® Optimum® AcreMax® Xtra	Syngenta® Agrisure Viptera™ 3111
Estimated launch	Approved	Approved	Approved	Approved	Approved
Herbicide tolerance	Glyphosate Glufosinate	Glyphosate	Glyphosate Glufosinate	Glyphosate Glufosinate	Glyphosate Glufosinate
Refuge required (Corn-Growing Area)	5% RIB	20%	20% Above - structured 10% Below - refuge in the bag	10% refuge in the bag	20% structured
Refuge examples					

For more information on
Genuity® Traits
contact your local representative.



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

IMPORTANT IRM INFORMATION: RIB Complete™ corn does not require the planting of a structured refuge **except** in the Cotton-Growing Area where corn earworm is a significant pest. Genuity® SmartStax® RIB Complete™ Corn is a blended seed corn product. See the IRM/Grower Guide for additional information. Always read and follow IRM requirements.

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. **Commercialization is dependent on multiple factors**, including successful conclusion of the regulatory process. It is a violation of federal law to promote or offer to sell an unregistered pesticide. Genuity and Design®, Genuity Icons, Genuity®, RIB Complete and Design™, RIB Complete™, Roundup Ready 2 Technology and Design®, Roundup Ready®, Roundup®, SmartStax and Design®, SmartStax®, VT Double PRO™, and VT Triple PRO™ are trademarks of Monsanto Technology LLC. Ignite® and LibertyLink® and the Water Droplet Design® are registered trademarks of Bayer. Herculex® is a registered trademark of Dow AgroSciences LLC. Respect the Refuge and Corn Design® and Respect the Refuge® are registered trademarks of National Corn Growers Association. All other trademarks are the property of their respective owners. ©2011 Monsanto Company.



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.

