

More Resilient Farming with PowerCore® Enlist® Corn

Corteva Agriscience Global Technical Education Lead Clint Pilcher talks to a lot of audiences about PowerCore® Enlist® corn. When we asked him to name one thing he wished more people “got” about this technology, he said, “This product is really about multi-year benefits.” That can require a shift in perspective, Pilcher said, not only for farmers but also for those presenting the technology to them. “We continue to evolve as an industry,” he said. “Every year you do something, it affects your farmland the following year and years after that.” PowerCore Enlist corn is the perfect complement to this kind of long-term thinking. Here are four important benefits this technology brings to customers, for many seasons to come.

Long-term benefit #1: Diversified weed management

Since PowerCore Enlist corn is tolerant to four herbicides – 2,4-D choline in Enlist® herbicides, glyphosate, glufosinate and FOP herbicides* – farmers have many options for burndown, preemergence and post-emergence herbicide applications. If a customer is thinking ahead to crop rotations, more herbicide choices this season mean more flexibility in crop considerations the following season and beyond. Enlist herbicides are compatible with over 1,000 approved tank-mix partners, allowing farmers to customize their post-emergence applications and add in residual herbicides for season-long control. AMS products can also be added without worrying about increasing volatility.**

Long-term benefit #2: Weed resistance management

Four herbicide tolerances also allow for using more modes of action (MOAs) to help prevent the development of weed resistance. Pilcher explained, “PowerCore Enlist corn enables a multi-tier, program approach that keeps weeds under control this season, and prevents many of the weed resistance issues that have become so problematic in recent years.” Glyphosate resistance arose from practices that encouraged the use of a single mode of action throughout the season. In contrast, the Enlist® weed control system was specifically designed for a program approach. With PowerCore Enlist corn, growers are encouraged to utilize multiple effective modes of action in pre-plant programs, to use layered residuals in post-emergence applications and to never use Enlist One® herbicide as the sole MOA.

* Not all FOP herbicides are labeled for use in Bt corn products with the Enlist® trait. Before use, review the product label to ensure the product is labeled for use on Bt corn with the Enlist trait.

** See EnlistTankMix.com for a complete list of all qualified tank-mix products.



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. Liberty®, LibertyLink® and the Water Droplet Design are registered trademarks of BASF. Roundup® and Roundup Ready® are registered trademarks of Bayer Group.

Long-term benefit #3: Insect resistance management

PowerCore Enlist corn uses a pyramid of traits against above-ground insects. This enables more MOAs against common, costly pests like European corn borer and fall armyworm, and makes the technology more durable over time. Pilcher explained, “Just as the herbicide tolerances in PowerCore Enlist corn enable a diversified weed management strategy, this pyramid of traits helps diversify your insect trait portfolio. It gives you more time against these pests.” Trait pyramids also reduce refuge needs, so they’re convenient and forward-thinking.

Long-term benefit #4: Farm flexibility

PowerCore Enlist corn gives farmers options in their fields today, and that translates into more choices in the future. Pilcher said, “When you build a longer-term plan for that field and are able to diversify and manage a portfolio system over time, you get more flexibility year over year.” That includes being able to engage in more integrated resistance management (IRM) activities, plant cover crops, adjust tillage programs and use cultural practices that can all help contribute to a more resilient farm – one that’s ready to meet future challenges and achieve new productivity goals.

Management basics to reduce risks of resistance			
By taking more actions that fall into the green (low risk) category below, farmers can reduce the risk of insects and weeds developing resistance.			
Factor	Risk Level		
	Low	Moderate	High
MOAs used in cropping system (herbicides/insecticides)	≥ 3	2	1
Use of same MOA per season	Once	More than once	Many times
Diversity of cropping system methods	Cultural, mechanical & chemical	Cultural & chemical	Chemical only
Cropping system	Full rotation	Limited rotation	No rotation
Refuge management & compliance (Bt crops, insect control)	High	Moderate	Low
Adoption of best management practices	High	Moderate	Low
Management planning window	3 years	2 years	Current year only
Degree of community-based management & collaboration	Using community-based management plan	Grower plus immediate neighbor(s)	Grower only

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