

When should farmers consider PowerCore® Enlist® corn?

Farmers have lots of choices in corn genetics and weed control. So, one question we hear from licensees (and their customers) is: When does choosing PowerCore® Enlist® corn make sense? Like all planting decisions, this technology isn't right for every farm. But when it is, it's not only sensible—it can be downright smart.

Here are some considerations to help determine when PowerCore Enlist corn is a good solution for your customers.

They're facing glyphosate-resistant broadleaf weeds in corn.

With tolerance to 2,4-D choline, PowerCore Enlist corn lets farmers introduce another mode of action against resistant weeds. Unlike traditional 2,4-D formulations, the 2,4-D choline in Enlist® herbicides can be sprayed in corn up to 30" (48" with drop nozzels). The ability to treat PowerCore Enlist corn with 2,4-D choline gives farmers three distinct advantages:

1. Gain outstanding weed control by using 2,4-D in corn when it's most useful.
2. Enable post-emergence control of broadleaf weeds with flexible application timing.
3. Reduce future resistance risks by diversifying with additional herbicide mode of action.

They have issues with grasses and volunteer corn.

PowerCore Enlist corn is tolerant to FOP herbicides, giving farmers an additional tool to use against grasses and volunteer corn. Glyphosate-resistant grasses are a growing issue, and even if you're not seeing it in your area today, adding a FOP herbicide introduces another modes of action to help keep resistance at bay.

They need a late-season control option.

Enlist One® herbicide can be tank-mixed with glufosinate for an excellent late-season herbicide application option. Glufosinate was only used on 1% of corn acres in 2020, so it's a smart addition to a program approach to help reduce resistance risks.

Weed pressures are changing and they need choices.

Getting the upper hand over hard-to-control weeds requires flexibility and options. Because PowerCore Enlist corn is tolerant to four herbicides—2,4-D choline in Enlist herbicides, glyphosate, glufosinate and FOPs—customers have the ability to tank-mix multiple effective modes of action in-season and craft the right weed control approach for their farm.

This chart shows how effective various tank-mixes are against some of the most resistant weed species.

V4 applications in corn, 28 DAT¹

Glyphosate-resistant weed species				
Pre fb treatments*	Palmer amaranth	Common waterhemp	Common ragweed	Giant ragweed
	% control			
Glyphosate	-	86%	80%	83%
Glyphosate + glufosinate	97%	99%	94%	93%
Glyphosate + Enlist One herbicide	99%	98%	99%	96%

* All treatments had an effective PRE at the 1X rate for the given soil type. All post treatments had 2.5% V/V of AMS.

They're already planting Enlist E3® soybeans.

If your customers are already planting Enlist E3 soybeans, PowerCore Enlist corn is a convenient complementary technology. Both crops can of course be treated with Enlist herbicides, and since PowerCore Enlist corn is tolerant to 2,4-D choline, there's no need to worry about coordinating soybean applications to avoid corn injury. PowerCore Enlist corn is also an excellent rotational partner with Enlist E3 soybeans.

In the next installment of our series on PowerCore Enlist corn, we'll explore some common misperceptions to help you open customers up to the possibilities of this trait technology.

™ ® Trademarks of Corteva Agriscience and its affiliated companies. The transgenic soybean event in Enlist E3® soybeans is jointly developed and owned by Corteva Agriscience and M.S. Technologies L.L.C. PowerCore® multi-event technology developed by Corteva Agriscience and Monsanto. PowerCore® is a registered trademark of Monsanto Technology LLC. Always follow IRM, grain marketing and all other stewardship practices and pesticide label directions. B.t. products may not yet be registered in all states. Check with your seed representative for the registration status in your state. Enlist Duo® and Enlist One® herbicides are not registered for sale or use in all states or counties. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your area. Enlist Duo and Enlist One are the only 2,4-D products authorized for use with Enlist crops. Consult Enlist herbicide labels for weed species controlled. Always read and follow label directions.

Liberty®, LibertyLink® and the Water Droplet Design are trademarks of BASF.

© 2023 Corteva.

