

**ENLIST® WEED CONTROL SYSTEM**

**Enlist® Ahead**



# 2025 PRODUCT USE GUIDE

ENLIST® HERBICIDES — USED WITH ENLIST E3® SOYBEANS, ENLIST CORN AND ENLIST COTTON

# Enlist® Ahead

## What you'll find inside:

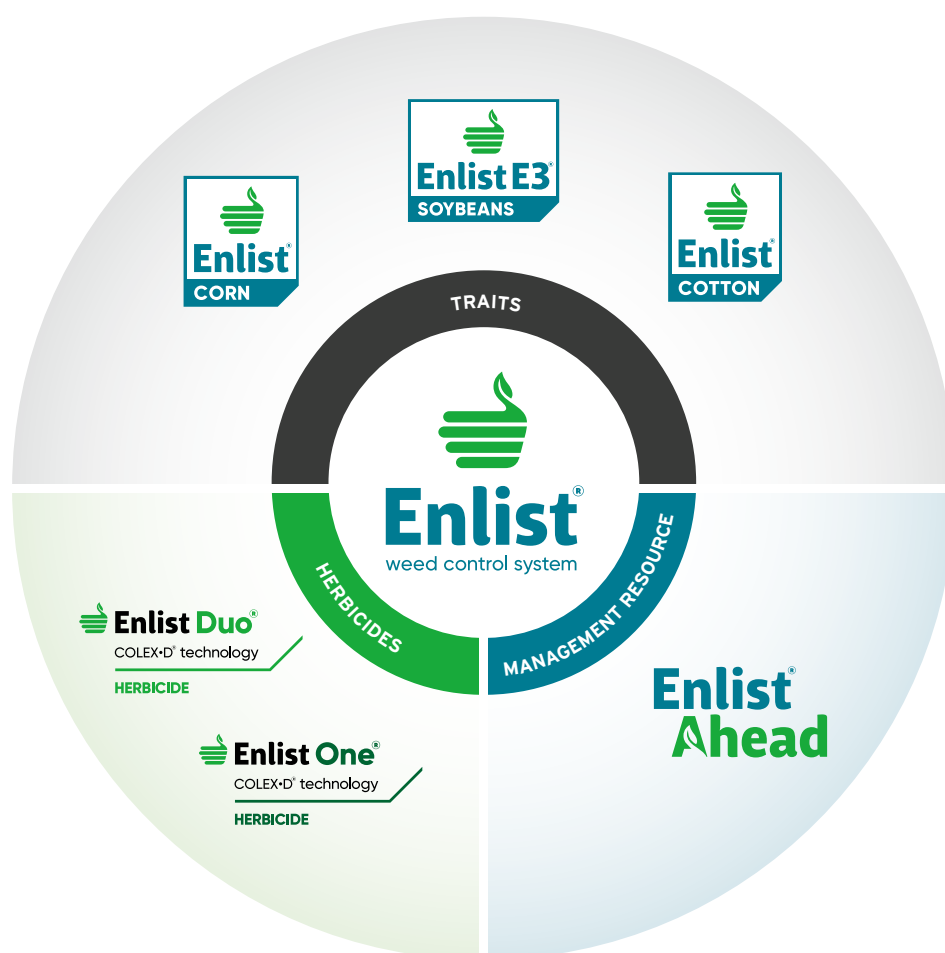
The Enlist® weed control system . . . . .	3	Runoff mitigation. . . . .	28
Enlist® Ahead . . . . .	5	Equipment cleanout . . . . .	29
Enlist® herbicides. . . . .	6	Application summary. . . . .	30
Cornerstone of a program approach. . . . .	7	Crops with the Enlist® trait . . . . .	32
Herbicide partners from Corteva Agriscience. . . . .	9	Enlist E3® soybeans. . . . .	32
The TruChoice® offer . . . . .	12	Enlist® corn. . . . .	33
Glufosinate herbicides . . . . .	13	Enlist® cotton . . . . .	34
Tank-mixing with Enlist® herbicides. . . . .	14	Help prevent herbicide resistance development with the Enlist® system. . . . .	35
Nozzles . . . . .	16	Crop response and pollinator protection. . . . .	37
Field planning. . . . .	23	Further stewardship info. . . . .	39

This reference guide is not intended as a substitute for the product label for product(s) referenced herein. Always read and follow all label directions and precautions for use when using any pesticide alone or in tank-mix combination. Failure to follow the label, including any supplemental label precautions, is considered a misuse under federal law.

To find product labels and additional resources about the Enlist® weed control system, visit [Enlist.com](https://enlist.com) or scan the QR code below:



## The Enlist® weed control system



The Enlist® weed control system is here for the long haul, and here's why: It's based in science and backed by stewardship. This unrivaled system starts with Enlist® herbicide-tolerant traits that enable the use of our powerful Enlist® herbicides. The Enlist® Ahead management resource provides tools and training to make sure you get the most from the system.

HERBICIDE TOLERANCES			
ENLIST E3® SOYBEANS	Bt CORN PRODUCTS WITH ENLIST® TRAIT	ENLIST® W3FE COTTON	ENLIST® W3E1 COTTON
2,4-D choline	2,4-D choline	2,4-D choline	2,4-D choline
Glufosinate	Glufosinate <sup>1</sup>	Glufosinate	Glufosinate
Glyphosate	FOP herbicides <sup>2</sup>	Glyphosate	
	Glyphosate		

<sup>1</sup>Non-Bt corn products with the Enlist® trait may not contain glufosinate tolerance. See bag tag to verify herbicide tolerance.

<sup>2</sup>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.



COLEX•D® technology

HERBICIDE

**Straight-goods 2,4-D choline with additional tank-mix flexibility**



COLEX•D® technology

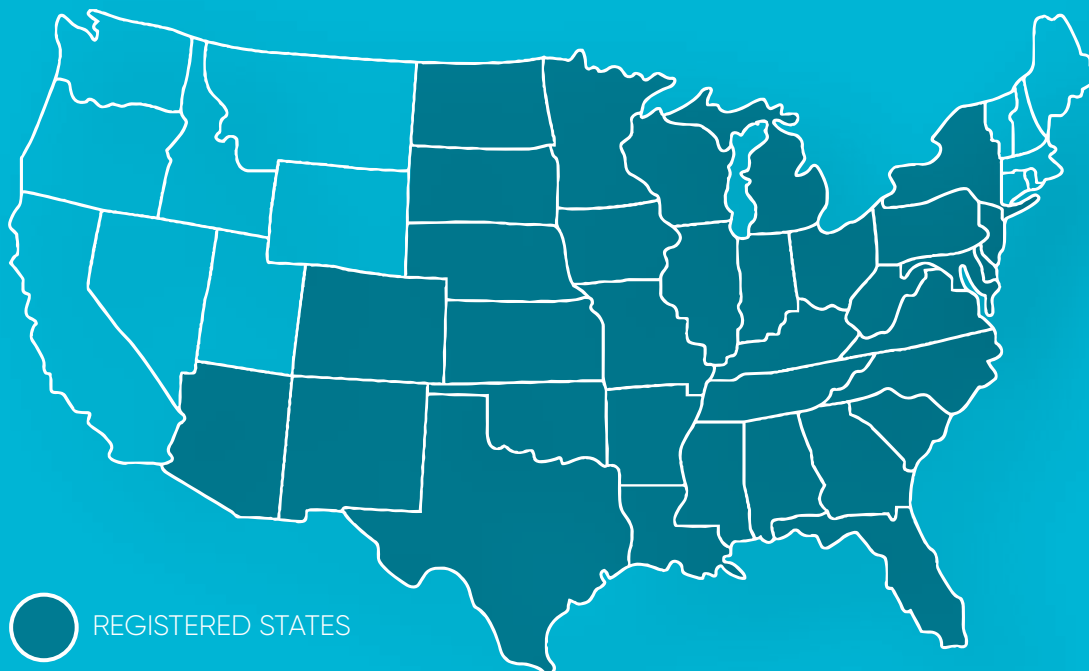
HERBICIDE

**Convenient proprietary blend of 2,4-D choline and glyphosate**

Enlist One® herbicide is a straight-goods 2,4-D choline product with Colex-D® technology that provides additional tank-mix flexibility with products listed on [EnlistTankMix.com](http://EnlistTankMix.com), such as glufosinate herbicides, glyphosate herbicides, residual herbicides, fungicides and insecticides. Enlist Duo® herbicide with Colex-D technology combines the proven performance of 2,4-D choline and glyphosate in a convenient, proprietary blend.

Following burndown, Enlist Duo® and Enlist One® herbicides with Colex-D® technology are the only herbicides containing 2,4-D that are authorized for preemergence and postemergence use with Enlist® crops. Consult Enlist® herbicide labels for weed species controlled. Enlist Duo and Enlist One herbicides are not registered for use or sale in all states and counties; are not registered in AK, CA, CT, HI, ID, MA, ME, MT, NH, NV, OR, RI, UT, VT, WA and WY; and have additional subcounty restrictions in AL, GA, TN and TX, while existing county restrictions still remain in FL. All users must check "Bulletins Live! Two" no earlier than six months before using Enlist One or Enlist Duo herbicide. To obtain "Bulletins," consult [www.epa.gov/espp/](http://www.epa.gov/espp/), call 844-447-3813, or email [espp@epa.gov](mailto:espp@epa.gov). You must use the "Bulletin" valid for the month and state and county in which Enlist One or Enlist Duo herbicide are being applied. Contact your state pesticide regulatory agency if you have questions about the registration status of Enlist® herbicides in your area. ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. IT IS A VIOLATION OF FEDERAL AND STATE LAW TO USE ANY PESTICIDE PRODUCT OTHER THAN IN ACCORDANCE WITH ITS LABELING. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USE IN THE STATE OF APPLICATION. USE OF PESTICIDE PRODUCTS, INCLUDING, WITHOUT LIMITATION, 2,4-D-CONTAINING PRODUCTS NOT AUTHORIZED FOR USE WITH ENLIST CROPS, MAY RESULT IN OFF-TARGET DAMAGE TO SENSITIVE CROPS/AREAS AND/OR SUSCEPTIBLE PLANTS, IN ADDITION TO CIVIL AND/OR CRIMINAL PENALTIES. Additional product-specific stewardship requirements for Enlist crops, including the Enlist Product Use Guide, can be found at [TraitStewardship.com](http://TraitStewardship.com). Always read and follow label directions.

## States where Enlist Duo® and Enlist One® herbicides are registered



# Get the best results with the Enlist® Ahead management resource

**Enlist® Ahead** is a management resource that helps you get the best results from the Enlist® weed control system while protecting the herbicide-tolerant technology for the future, helping you:

- Make on-target applications on your crops.
- Select and use different sites of action in the same growing season.
- Mitigate herbicide resistance and prevent new resistance development in your fields (Learn more on this topic on Page 35).

## As part of Enlist Ahead, you can:

- Download the Enlist® Ahead app for readily accessible information on your iOS device.
- Visit [Enlist.com](https://enlist.com) for an overview of the Enlist weed control system, an online training module and other technical information.
- Visit [EnlistTankMix.com](https://enlisttankmix.com) for qualified tank-mix partner listings.
- Get support from your local Corteva Agriscience crop protection territory manager and Enlist® field specialist.

Following the best practices presented in Enlist Ahead will help you achieve optimum results and sustain the long-term performance of the Enlist® weed control system. Growers of Enlist® crops must read and follow the refuge and Insect Resistance Management (IRM) requirements in Product Use Guides found at [TraitStewardship.com](https://TraitStewardship.com).



Scan the QR code to find additional Product Use Guides.



## Take control of tough weeds with Enlist Duo® and Enlist One® herbicides

Use Enlist® herbicides as the cornerstone of a season-long program approach for weed management on crops with Enlist® traits.

Enlist® herbicides control tough and herbicide-resistant weeds, including, but not limited to:

- |                  |   |
|------------------|---|
| ✓ Common ragweed | ✓ Marestail <sup>3</sup>  |
| ✓ Giant ragweed  | ✓ Morningglory  |
| ✓ Lambsquarters  | ✓ Waterhemp <sup>3</sup>  |
| ✓ Velvetleaf     | ✓ Pigweed <sup>3</sup><br>(including Palmer amaranth <sup>3</sup> ) |

For a full listing of 90+ weeds controlled, reference the labels for Enlist Duo® and Enlist One® herbicides.

## On-target characteristics of 2,4-D choline with Colex-D® technology

How Enlist herbicides differ from 2,4-D ester, amine and other traditional formulations:

- Near-zero volatility
  - 2,4-D choline is 96% less volatile than 2,4-D ester.
  - 2,4-D choline is 88% less volatile than 2,4-D amine.
- Reduced physical drift potential
- Better handling characteristics



## Use the right application rate

Apply 4.75 pints of Enlist Duo® herbicide or 2 pints of Enlist One® herbicide per acre to young, actively growing weeds, according to the product label directions.<sup>4</sup> It's essential to spray when weeds are 6 inches tall or less and to use the full herbicide rates. These practices help ensure best weed management and help prevent and mitigate the development of herbicide resistance.

<sup>3</sup>May require a broader management plan including timely application and use of a soil residual herbicide.

<sup>4</sup>Always read and follow the product label as well as state and local requirements.

**Key practices to remember:**

- Use full labeled rates for best weed management.
- Spray when weeds are young, 6 inches tall or less.
- Spray when weeds are actively growing.

The product labels for Enlist Duo® and Enlist One® herbicides also contain important information about application equipment requirements, restrictions and precautions, and weed management.

POSTEMERGENCE APPLICATION RATE	
Enlist Duo® herbicide	4.75 pt./A
Enlist One® herbicide	2 pt./A

**Postemergence passes on Enlist® acres**

Enlist® traits enable multiple options for postemergence herbicide sprays, allowing design of a program approach to fit each acre. Consider your weed pressure and agronomic situation when assessing which Enlist® herbicide and tank-mix partners work best.

ENLIST DUO® HERBICIDE	ENLIST ONE® HERBICIDE + GLUFOSINATE	ENLIST ONE® HERBICIDE + GLYPHOSATE
Enlist Duo herbicide @ 4.75 pt./A	Enlist One herbicide @ 2 pt./A	Enlist One herbicide @ 2 pt./A
Ammonium sulfate (AMS) as needed	• Glufosinate @ 2 pt./A • 1.5 to 3 lb./A of AMS	• Glyphosate @ high rate • AMS as needed

Check [EnlistTankMix.com](http://EnlistTankMix.com) for all qualified AMS and qualified glyphosate products.<sup>5</sup>



**Use Enlist® herbicides as the cornerstone of your program approach**

You'll have the greatest success in weed management if you use an Enlist® herbicide as part of a program approach for weed control in Enlist® crops. This improves weed control, reduces weed competition during key stages of crop growth and helps manage herbicide resistance.

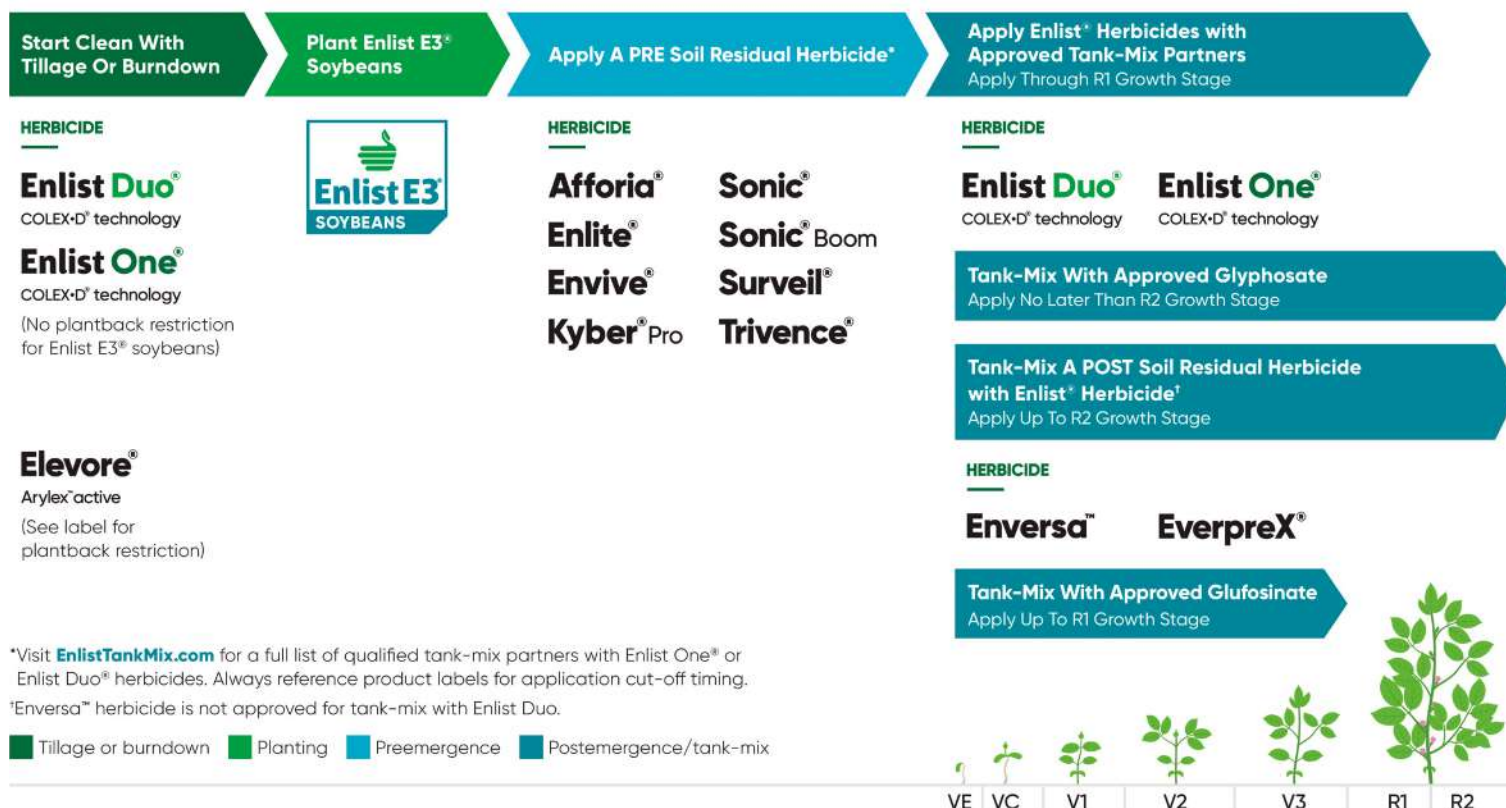
**Key items to remember:**

- Enlist® herbicides can be used in burndown, preemergence and postemergence passes on crops with the Enlist® trait.
- Enlist herbicides are rainfast within four hours.
- Up to three applications may be made per season (2 pt./A per application for Enlist One® herbicide or 4.75 pt./A per application for Enlist Duo® herbicide, where consistent with runoff management practices; see Page 28 for further information):
  - One application at burndown or preemergence
  - Up to two applications postemergence, at least 12 days apart
- Always include a true broad-spectrum soil residual herbicide<sup>6</sup> in your weed management plan.
- Consider using a layered residual, such as a Group 15 herbicide (e.g., acetochlor, S-metolachlor, pyrasulfone), in your post passes for longer-lasting weed control.

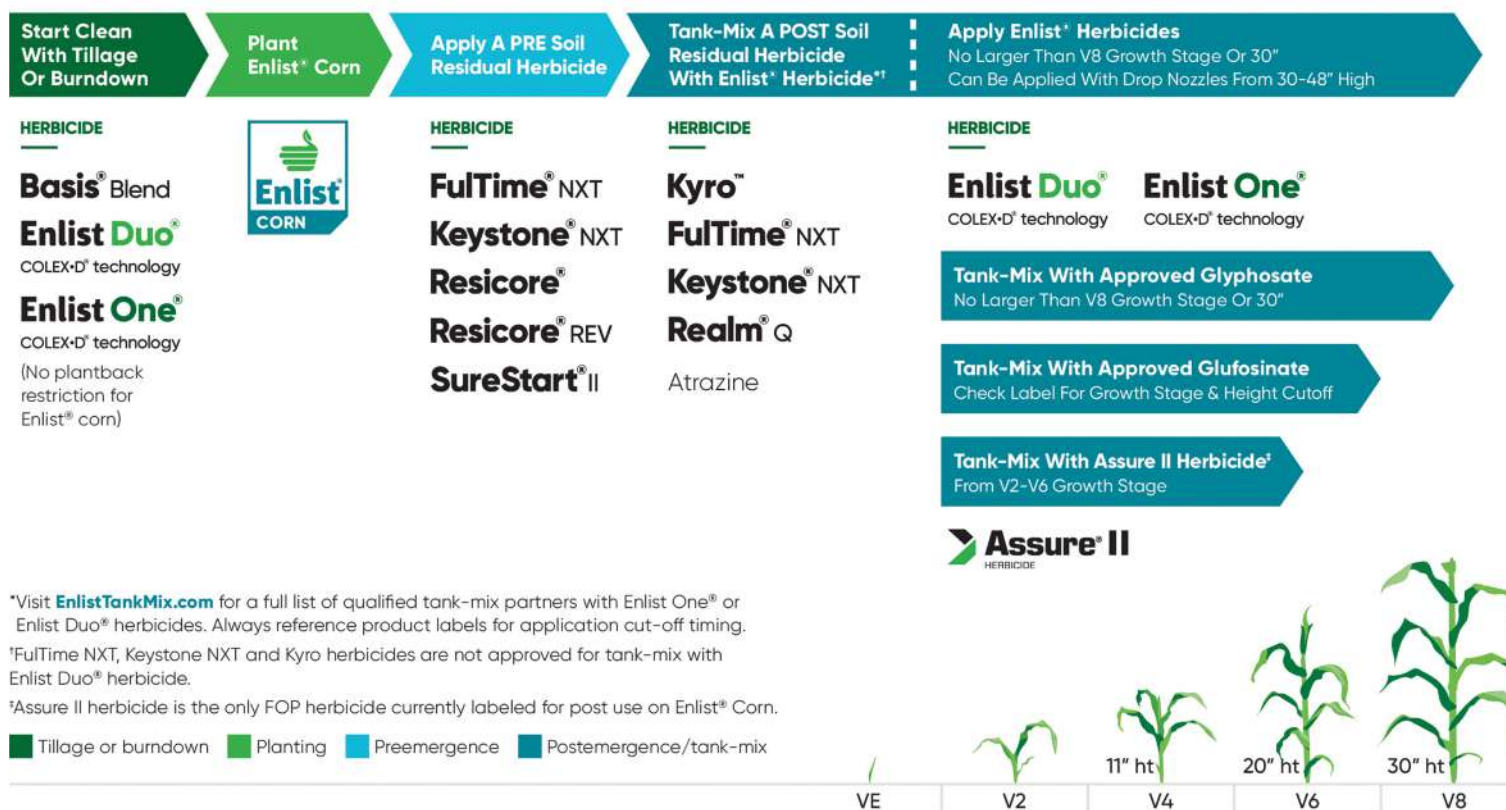
<sup>5</sup>Only products tested and found to not adversely affect spray drift properties of Enlist herbicides may be tank-mixed with Enlist herbicides. Listed products may be found at [www.EnlistTankMix.com](http://www.EnlistTankMix.com). Listing on website does not imply agronomic recommendation or endorsement of use.  
<sup>6</sup>Talk with your retailer for recommendations on preemergence and residual herbicides for your farm.



## Soybean Program Approach



## Corn Program Approach



\*Visit [EnlistTankMix.com](http://EnlistTankMix.com) for a full list of qualified tank-mix partners with Enlist One<sup>®</sup> or Enlist Duo<sup>®</sup> herbicides. Always reference product labels for application cut-off timing.

<sup>†</sup>FulTime NXT, Keystone NXT and Kyro herbicides are not approved for tank-mix with Enlist Duo<sup>®</sup> herbicide.

<sup>‡</sup>Assure II herbicide is the only FOP herbicide currently labeled for post use on Enlist<sup>®</sup> Corn.

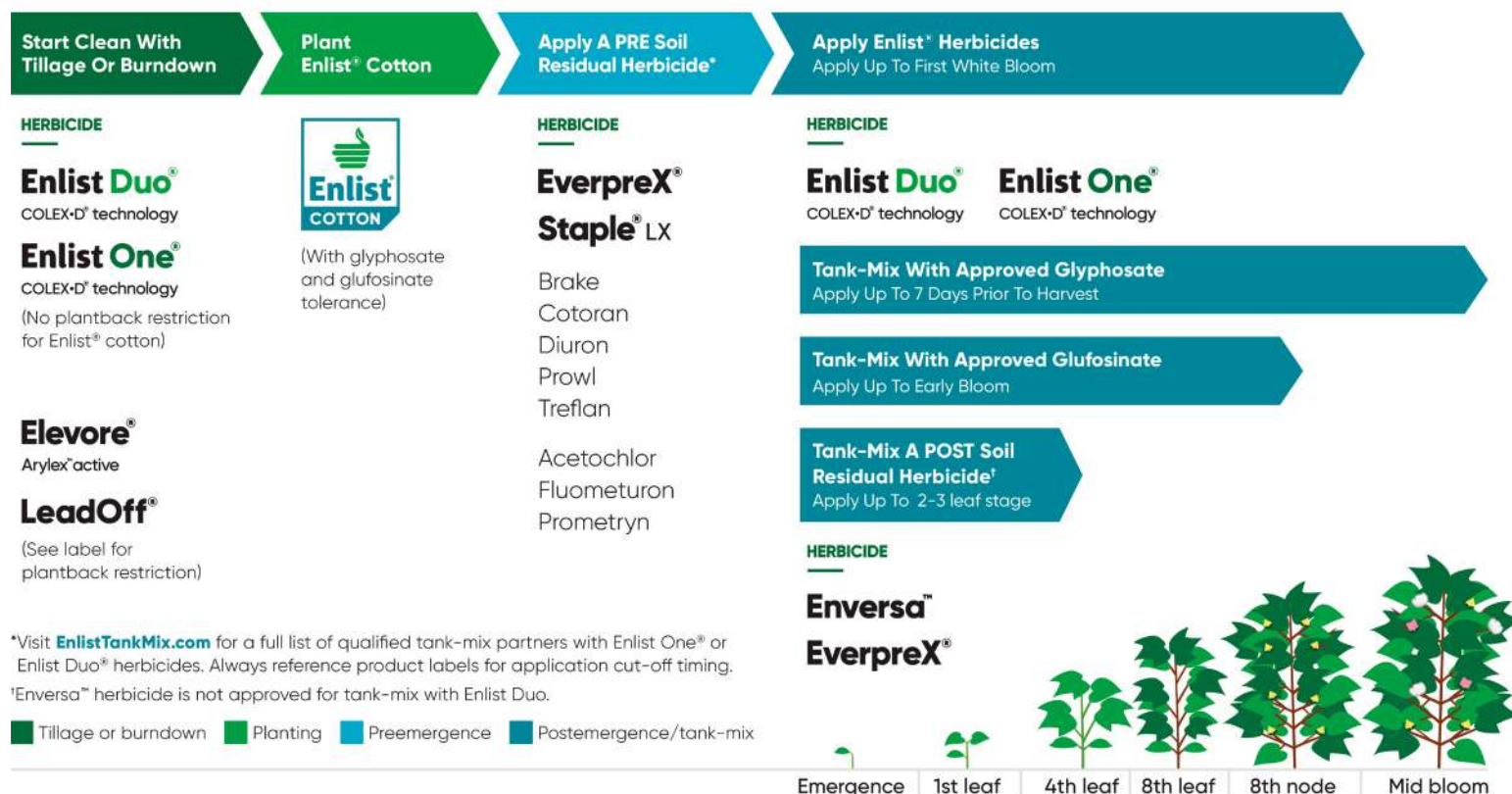
■ Tillage or burndown ■ Planting ■ Preemergence ■ Postemergence/tank-mix

<sup>†</sup>Non-Bt corn products with the Enlist<sup>®</sup> trait may not contain glufosinate tolerance. See bag tag to verify herbicide tolerance.

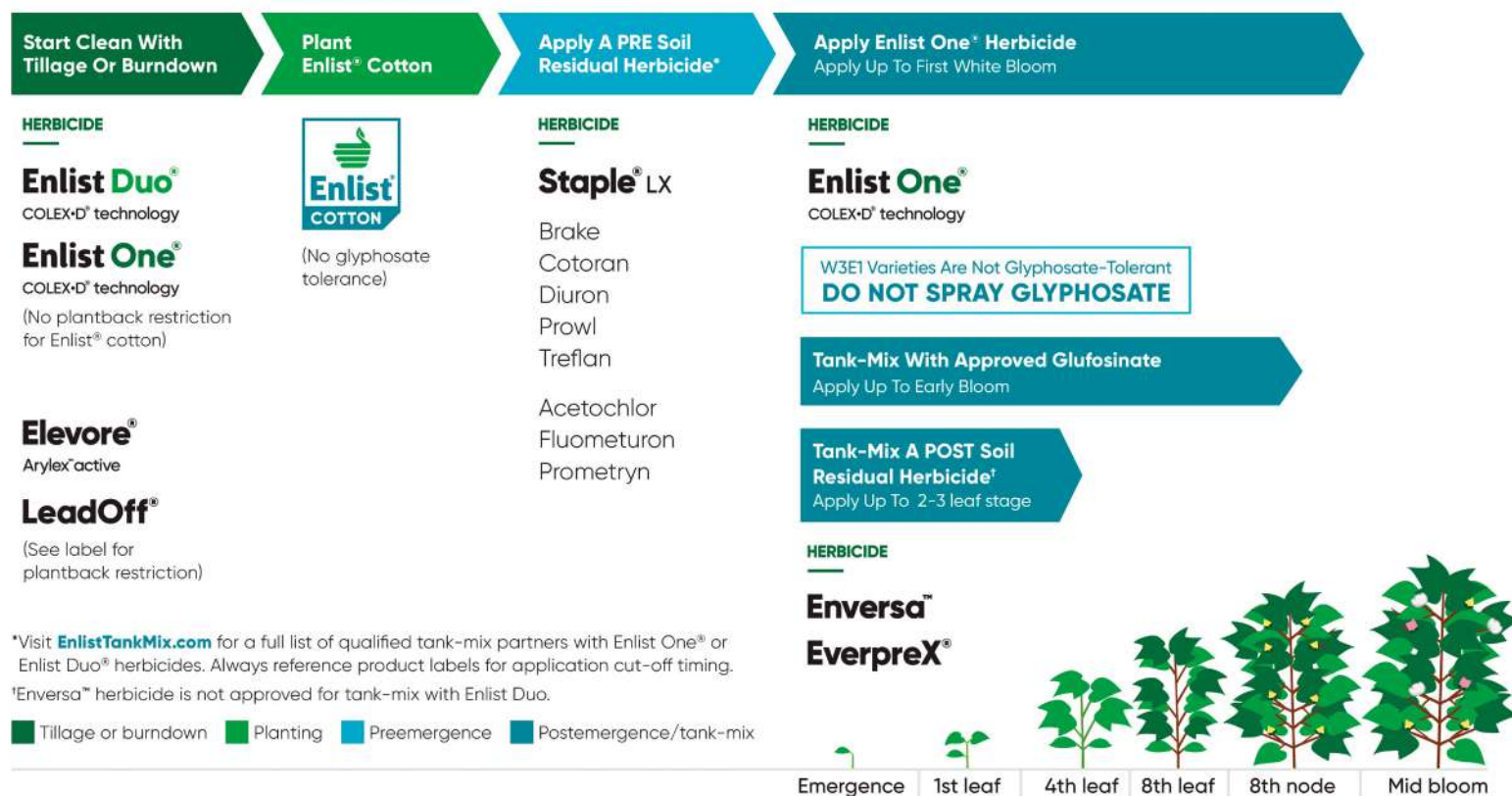
<sup>‡</sup>Not all FOP herbicides are labeled for use in Bt corn products with the Enlist<sup>®</sup> trait. Before use, review the product label to ensure the product is labeled for use on Bt corn with the Enlist<sup>®</sup> trait.

<sup>§</sup>FulTime<sup>®</sup> NXT and Keystone<sup>®</sup> NXT are Restricted Use Pesticides.

## Cotton W3FE Program Approach



## Cotton W3E1 Program Approach



## Herbicide partners help conquer tough weed challenges

Successful weed control means keeping weeds at bay throughout the growing season. The Enlist® weed control system allows you to employ Enlist® herbicides as the cornerstone of a program approach to overcome your toughest weed challenges. You also can incorporate preferred tank-mix partners and solutions from the industry-leading residual herbicide portfolio from Corteva Agriscience for season-long control.

# The importance of residual herbicides

Residual herbicides play a critical role in keeping fields of Enlist E3® soybeans, Enlist® corn and Enlist cotton clean. Using high-quality, overlapping soil residuals introduces different sites of action and helps keep weed pressure in check, setting you up for success when making postemergence applications that include an Enlist® herbicide.





## Preferred soybean residuals: Kyber<sup>®</sup> Pro, Sonic<sup>®</sup> Boom, Sonic<sup>®</sup>, Enversa<sup>™</sup> and Trivence<sup>®</sup> herbicides

Corteva soybean residual herbicides offer diverse sites of action and extended residual activity, and they fit very well into a program approach to protect Enlist E3<sup>®</sup> soybeans.



Scan the QR code to find the right soybean residual herbicides to protect your acres.

### Kyber<sup>®</sup> Pro

#### HERBICIDE

Preemergence recommendation for Corn Belt states: Kyber<sup>®</sup> Pro herbicide

- **Three sites of action:** metribuzin, flumioxazin, pyroxasulfone
- **Application flexibility:** Apply up to three days postplant
- Each individual site of action in Kyber<sup>®</sup> Pro herbicide is effective against difficult, herbicide-resistant weeds.

Kyber<sup>®</sup> Pro herbicide provides exceptional control of more than 50 broadleaf and grass weeds, including hard-to-control and ALS- and PPO-resistant weeds like Palmer amaranth and waterhemp. The new formulation also offers up to six weeks of residual activity.

### Sonic<sup>®</sup> Boom

#### HERBICIDE

Preemergence recommendation for Corn Belt and Great Plains states: Sonic<sup>®</sup> Boom herbicide

- **Two sites of action:** metribuzin, sulfentrazone
- **Application flexibility:** Apply up to three days postplant
- Sonic<sup>®</sup> Boom herbicide comes in a convenient liquid premix for easy applications.

Sonic<sup>®</sup> Boom herbicide offers two powerful modes of action plus superior crop safety for clean fields and higher yield potential. This solution is especially effective against difficult, resistant broadleaves, including waterhemp, Palmer amaranth, marestalk and kochia.

### Sonic<sup>®</sup>

#### HERBICIDE

Preemergence recommendation for Corn Belt and Great Plains states: Sonic<sup>®</sup> herbicide

- **Two sites of action:** sulfentrazone, cloransulam
- **Application flexibility:** Spray up to three days postplant
- Works in a tank mix with Enlist Duo<sup>®</sup> or Enlist One<sup>®</sup> herbicide

Sonic<sup>®</sup> herbicide is a trusted product that includes two sites of action, providing great residual efficacy on both large- and small-seeded broadleaf weeds as well as offering grass suppression. Plus, you get the flexibility to apply Sonic herbicide up to three days postplant.

### Enversa<sup>™</sup>

#### HERBICIDE

Postemergence recommendation for soybean tank-mix residual with Enlist One<sup>®</sup> herbicide: Enversa<sup>™</sup> herbicide

- Enversa<sup>™</sup> herbicide is the residual tank-mix partner of choice for Enlist One<sup>®</sup> herbicide.
- Offers several weeks' residual control of more than 25 broadleaf and grass weeds.
- Labeled for use on multiple crops, including Enlist E3<sup>®</sup> soybeans, Enlist<sup>®</sup> cotton and Enlist<sup>®</sup> corn.

Enversa<sup>™</sup> herbicide is a propriety encapsulated acetochlor that, once applied, drives to the soil, which creates a protective residual barrier and provides excellent crop safety. The new solution also offers a wide application window – preplant up to R2 on soybeans and up to first bloom on cotton – to help navigate challenging weather conditions.

### Trivence<sup>®</sup>

#### HERBICIDE

Preemergence recommendation for the Midsouth states, Kentucky, Ohio and Michigan: Trivence<sup>®</sup> herbicide

- **Three sites of action:** chlorimuron, flumioxazin, metribuzin
- Use for burndown and residual control

Trivence<sup>®</sup> herbicide offers three sites of action to deliver reliable control of challenging broadleaf weeds in soybeans while helping preserve the efficacy of existing herbicide options. It's effective against Palmer amaranth, marestalk, waterhemp, giant ragweed, morningglory, common lambsquarters and more.



## Preferred corn residuals: Resicore<sup>®</sup> REV, Resicore<sup>®</sup> and Kyro<sup>™</sup> herbicides

Resicore<sup>®</sup> REV, Resicore<sup>®</sup> and Kyro<sup>™</sup> herbicides each offer multiple sites of action, diverse sites of action and extended residual activity, and they fit very well into a program approach to protect Enlist<sup>®</sup> corn.

### Resicore<sup>®</sup> REV

#### HERBICIDE

Preemergence  
recommendation  
for Corn Belt states:  
Resicore<sup>®</sup> REV herbicide

- **Three sites of action:** acetochlor, mesotrione, clopyralid
- **Application flexibility:** Spray on corn up to 24 inches tall

Resicore<sup>®</sup> REV herbicide offers the proven, powerful weed control farmers have come to expect from Resicore<sup>®</sup> herbicide in a new high-performance formulation that offers supercharged tank-mix compatibility and boosted crop safety. Plus, Resicore<sup>®</sup> REV herbicide can be applied preplant, pre- or postemergence on corn up to 24 inches tall, providing the flexibility to handle application delays.

### Resicore<sup>®</sup>

#### HERBICIDE

Preemergence  
recommendation for  
Corn Belt, Great Plains  
and Midsouth states:  
Resicore<sup>®</sup> herbicide

- **Three sites of action:** acetochlor, mesotrione, clopyralid
- **Application flexibility:** Spray on corn up to 11 inches tall

The three powerful sites of action in Resicore<sup>®</sup> herbicide deliver long-lasting residual for excellent weed control on 75 of the toughest broadleaf and grass weeds, including Palmer amaranth, waterhemp and marestail. Resicore herbicide also has the flexibility to be used in a postemergence application and with glyphosate, atrazine and other corn herbicides.

### Kyro<sup>™</sup>

#### HERBICIDE

Postemergence  
recommendation for  
Corn Belt, Great Plains  
and Midsouth states:  
Kyro<sup>™</sup> herbicide

- **Three sites of action:** acetochlor, clopyralid, topramezone
- **Application flexibility:** Spray on corn up to 24 inches tall
- Works in a tank mix with Enlist One<sup>®</sup> herbicide

Kyro<sup>™</sup> herbicide is a postemergence solution that combines three unique sites of action to control more than 65 troublesome broadleaf and grass weed varieties. This novel formulation is the first to offer acetochlor, clopyralid and topramezone together in one convenient premix, providing farmers another powerful option outside of glyphosate and ALS herbicides to control resistant grasses.



Scan the QR code to find the right corn residual herbicides to protect your acres.



## Save big on herbicide purchases with the TruChoice® offer

Save up to 10% on crop protection products from Corteva Agriscience

Choose from 100+ leading products, including Enlist® herbicides and residual solutions

Save at the time of purchase, no waiting for rebates

Easily track and manage rewards online



With the TruChoice® offer, you can save big on your crop protection purchases from Corteva Agriscience by funding a prepay account online or through a participating retailer. **Scan the QR code to start saving now.**



# Tank-mixing Enlist One® Herbicide With Glufosinate

The primary tank-mix recommendation with Enlist One® herbicide is glufosinate for **acres with high pressure of glyphosate-resistant broadleaf weeds**, especially Palmer amaranth, waterhemp and kochia:

- Most frequent tank-mix recommendation for the Cotton Belt, where higher levels of resistance and weed pressure are most prevalent
- Combination of Enlist One herbicide + glufosinate provides multiple unique, effective sites of action on crops with the Enlist® trait.<sup>1</sup>
- Because of the inherent stability of 2,4-D choline, adding glufosinate in the tank with Enlist One herbicide does not increase the potential for volatility due to acidification.

**Know your rates:**

- **Enlist One herbicide:** 2 pt./A (32 fl. oz./A)
- **Glufosinate:** 2 pt./A (32 fl. oz./A). *Please refer to label for rate details based on crop and crop timing, weed species, weed size, and weed density.*

APPLICATION WINDOW FOR GLUFOSINATE ON ENLIST® CROPS	
Enlist E3® soybeans	Up to the R1 growth stage
Enlist® corn <sup>1</sup>	Up to V6 growth stage
PhytoGen® Enlist® cotton	Up to early bloom or before 70 days prior to harvest

<sup>1</sup>Non-Bt corn products with the Enlist® trait may not contain glufosinate tolerance. See bag tag to verify herbicide tolerance.

OPTIMIZING A TANK MIX OF ENLIST ONE® HERBICIDE + GLUFOSINATE ON ENLIST® CROPS	
Weed height	3 inches tall or less
Carrier volume	20 GPA is recommended for best performance of glufosinate, especially when grasses or dense weeds are present; 15 GPA minimum required with tank mix of Enlist One herbicide + glufosinate.
Adjuvants	Use 1.5 to 3 lb./A of AMS. <i>May be any combination of qualified dry AMS, liquid AMS or AMS-containing products found on EnlistTankMix.com.</i>
Qualified nozzle selection	Use nozzle and corresponding spray pressure from the qualified list for Enlist One herbicide.  Optimize coverage with qualified nozzles by using a less coarse nozzle with a higher operating pressure, such as an AIXR or an AITTJ60.
Weather at spray	Avoid low humidity and cloudy conditions to maximize efficacy of glufosinate.
Time of day	Recommended spraying time is between 2 hours after dawn and 2 hours before sunset to maximize efficacy of glufosinate.
Wind speed	Maximum 10 mph

**Even these weeds don't stand a chance:**



<sup>3</sup>May require a broader management plan including timely application and use of a soil residual herbicide.



# Tank-mixing with Enlist® herbicides



## Applying an Enlist® herbicide in a tank mix with other products

The application window for an Enlist® herbicide offers opportunities for tank mixes with other qualified products, such as other herbicides, insecticides, fungicides, micronutrients and adjuvants.

### Key items to remember:

- A tank mix of an Enlist® herbicide with other qualified herbicides provides multiple sites of action against tough weeds. Only use tank-mix partners listed on [EnlistTankMix.com](http://EnlistTankMix.com) for every application of an Enlist herbicide.
- For pigweed, waterhemp and kochia pressure, farmers should consider a tank mix of Enlist One® herbicide + glufosinate.
- For heavy grass pressure and glyphosate-susceptible broadleaves, farmers can either use Enlist Duo® herbicide, a convenient blend of 2,4-D choline and glyphosate, or Enlist One herbicide + glyphosate.
- Layering residual herbicides as part of a tank mix with Enlist herbicides helps provide season-long control of tough broadleaf weeds and grasses.
- Farmers and applicators can select from many qualified ammonium sulfate (AMS) products and defoamers, as well as many other adjuvant options, listed on [EnlistTankMix.com](http://EnlistTankMix.com).

### Tank-mix sequence procedures

Start with a clean sprayer before mixing a load with Enlist One® or Enlist Duo® herbicide.



Scan the QR code to download a tank-mix sequence fact sheet.

Begin with half-full tank of water carrier.	
Begin agitation and continue throughout mixing process.	
Add products one at a time, in the following order:	
1. AMS/water-conditioning agents	6. Capsule suspension (CS) or suspension emulsion (SE) • Such as acetochlor in Enversa™ herbicide, a capsule suspension.
2. Preslurry water-soluble packets	7. Emulsifiable concentrate (EC) • Such as S-metolachlor in EverpreX® herbicide
3. Wettable powders/dry flowables	8. Soluble liquids (SL) • Glyphosate products • Glufosinate products • Enlist Duo® herbicide at 4.75 pt./A or Enlist One® herbicide at 2 pt./A
4. Compatibility agents	9. Crop oil concentrate (COC), methylated seed oil (MSO), nonionic surfactant (NIS), other adjuvants
5. Liquid flowables	10. Top off with water carrier

### Note on mixing with glyphosate products:

When mixing with Enlist One® herbicide, do not pour glyphosate products into the tank or inductor at the same time as Enlist One herbicide and do not allow concentrated products to come into contact. Add products one at a time, allowing enough time for recirculation between additions of each separate product. Failure to add products one at a time, lack of sufficient water during mixing or not allowing sufficient agitation may result in salting out.

### Ammonium sulfate/water-conditioning agents

The addition of an AMS or water-conditioning agent helps maintain optimum performance of glufosinate and glyphosate products tank-mixed with Enlist® herbicides on annual and perennial weeds, particularly under hard water conditions or drought conditions. The addition of AMS products does not affect the inherently low-volatility characteristics of the 2,4-D choline in Enlist herbicides. The most current list of qualified AMS and water-conditioning agents is available at [EnlistTankMix.com](http://EnlistTankMix.com).

### Anti-foam/defoamers

The addition of an anti-foaming agent is highly encouraged for ease of mixing and sprayer cleanout. The most current list of qualified anti-foam/defoamers is available at [EnlistTankMix.com](http://EnlistTankMix.com).

Check [EnlistTankMix.com](http://EnlistTankMix.com) when planning your application.

QUALIFIED TANK-MIX PARTNERS	
ARE:	ARE NOT:
Products that passed the U.S. Environmental Protection Agency (EPA)-mandated drift testing protocol, which is part of the conditions of registration for Enlist® herbicides.	<ul style="list-style-type: none"> <li>• Tested for crop response</li> <li>• Tested for physical tank-mix compatibility</li> <li>• An agronomic recommendation</li> <li>• An endorsement of any kind from Corteva Agriscience</li> <li>• An indicator of performance</li> </ul>

As part of the conditions of registration for Enlist® herbicides, the EPA established a tank-mix testing protocol. One reason the drift testing protocol exists is to protect sensitive areas, where endangered species may have habitat, from spray drift.

All qualified tank-mix products have passed established standards for spray performance. The most current list, which has the only tank-mix partners meeting the standards set by the EPA, is available at [EnlistTankMix.com](http://EnlistTankMix.com).



Scan the QR code to find qualified tank-mix partners for Enlist® herbicides.

Enlist Duo® and Enlist One® herbicides are the only 2,4-D products authorized for use with Enlist® crops. Following burndown, use of unauthorized 2,4-D products that are not Enlist herbicides on crops with the Enlist® trait is not permitted.

Refer to all individual product labels, supplemental labeling and fact sheets for all products in the tank mixture, and observe all precautions and limitations on the labels, including application timing restrictions, soil restrictions, minimum plant-back interval and rotational guidelines. Use according to the most restrictive precautionary statements for each product in the tank mixture.

In some cases, the addition of tank-mix products may cause increased crop response such as leaf speckling. Applications of emulsifiable concentrate products, or crop oils – including crop oil concentrates (COC), methylated seed oil concentrate (MSOC), high surfactant oil concentrates (HSOC) and vegetable-based oils – are more likely to result in a crop response.

### Tank-mixing with grass herbicides

When tank-mixing grass herbicides such as clethodim with Enlist One® herbicide, increase the rate of the grass herbicide by a minimum of one-third to overcome potential antagonism. In addition, use recommended adjuvants for the grass herbicides. Do not exceed labeled rates with any recommended increase.

To ensure the use of multiple sites of action for broadleaf control, include a broad-spectrum tank-mix partner or a sequential postemergence pass in your weed control program.

If you have further questions about proper handling and use of these products, or if you become aware of potential misuse or incidents involving these products, please contact Corteva Agriscience at **855-ENLIST1 (855-365-4781)**.



## Selecting the right nozzles to optimize coverage and manage drift



The right nozzles can maximize product performance by managing the interaction between application volume, nozzle flow rate, nozzle type, operating pressure, ground speed, nozzle spacing and droplet size category.



**Scan the QR code to find qualified nozzles for Enlist® herbicides.**

### Key items to remember:

- Use a qualified nozzle that provides the best possible coverage while appropriately managing spray droplets.
- Use a minimum of 10 gallons of water carrier volume; 10 to 15 gallons recommended for Enlist® herbicides. See Page 13 for information about tank-mixing Enlist One® herbicide with glufosinate.
- Take advantage of the flexibility provided by the listed nozzles and pressure ranges to select one that allows you to balance crop coverage and droplet size.
- Only use nozzles and corresponding pressures listed on [Enlist.com/Nozzles](https://enlist.com/Nozzles) for every application of Enlist herbicides.<sup>4</sup>

<sup>4</sup>Always read and follow the product label as well as state and local requirements.



## Qualified Nozzles with Pressure Ranges (PSI)

Manufacturer	Nozzle Type	Size	Pressure		Pressure Range (PSI)																						
			Min	Max	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120
ABJ Agri	ABJ	110.04	20	30																							
		110.06	20	35																							
AlbuZ	AVI	110025	40	60																							
		11003	40	80																							
		11004	40	90																							
		11005	40	90																							
		11006	40	90																							
Greeneye Technology	GEE	25-03	20	80																							
Greenleaf	AM	11003	15	30																							
		11004	15	35																							
		11005	15	40																							
		11006	15	35																							
	TADF	08	30	60																							
	TADF-D	025-D	30	90																							
		03-D	30	90																							
		04-D	30	90																							
		05-D	30	90																							
		06-D	30	90																							
	TDXL	11003	30	80																							
		11004	30	80																							
		11005	30	85																							
		11006	30	90																							
		11008	30	90																							
	TDXL-D	11002-D	30	90																							
		110025-D	30	80																							
		11003-D	30	70																							
		11004-D	30	90																							
		11006-D	30	90																							
		11008-D	30	100																							
	SD	110-04	20	90																							
		110-05	20	85																							
		110-06	20	40																							
		110-08	20	80																							
		110-10	20	80																							
HyPro	TRD	80-03	20	55																							
		80-04	20	50																							
		80-05	20	60																							
		80-06	20	75																							
	ULD	120-03	20	30																							
		120-04	20	80																							
		120-05	20	70																							
		120-06	20	65																							
		120-08	20	40																							
	ULDM	130-03	30	85																							
		130-04	30	90																							
		130-05	30	85																							
		130-06	30	85																							
		130-08	30	85																							

### For PWM Systems:

<b>NOZZLE</b>	Designed for use with PWM systems
<b>NOZZLE</b>	Use with John Deere ExactApply <sup>™</sup> system ONLY

### Coverage guide (factor of type, size and/or pressure range):

	Provides best balance of coverage and drift control
	Provides additional drift control by creating larger droplets
	No classification

Manufacturer	Nozzle Type	Size	Pressure		Pressure Range (PSI)																						
			Min	Max	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120
John Deere	PSTSL	6005-R4	20	80																							
		6006-R4	20	80																							
		8005-R4	20	80																							
		8006-R4	30	80																							
	PSULD/ PSULDQ	2003	20	30																							
		2004	20	80																							
		2005	20	70																							
		2006	20	65																							
		2008	20	40																							
	PSULDM/ PSULDMQ	3003	30	85																							
		3004	30	90																							
		3005	30	85																							
		3006	30	85																							
		3008	30	85																							
	PSLDM/ PSLDMQ	2003	20	35																							
		2005	20	50																							
		2006	20	60																							
		2008	20	60																							
		2010	20	50																							
Lechler	ID	120-03	20	60																							
		120-04	20	80																							
		120-05	20	80																							
TeeJet	AI	65-02E	30	80																							
		65-025E	30	80																							
		65-03E	30	80																							
		65-04E	30	80																							
		65-05E	30	80																							
		65-06E	30	80																							
		80-02	30	75																							
		80-025	30	80																							
		80-03	30	80																							
		80-04	30	80																							
		80-05	30	80																							
		80-06	30	80																							
		110-02	30	80																							
		110-025	30	80																							
		110-03	30	80																							
		110-04	30	80																							
		110-05	30	80																							
		110-06	30	80																							
		110-08	30	80																							
	AITTJ60	110-03	20	25																							
		110-04	20	50																							
		110-05	20	50																							
		110-06	20	60																							
		110-08	20	60																							
		110-10	20	65																							
		110-15	20	55																							
	AIXR	110-03	15	30																							
		110-04	15	60																							
		110-05	15	60																							
		110-06	15	60																							
		110-08	15	70																							
		110-10	15	75																							
	APTJ	110-02	20	90																							
		110-025	20	90																							
		110-03	20	90																							
		110-04	20	90																							
		110-05	20	90																							
		110-06	20	90																							

## For PWM Systems:

<b>NOZZLE</b>	Designed for use with PWM systems
<b>NOZZLE</b>	Use with John Deere ExactApply™ system ONLY

## Coverage guide (factor of type, size and/or pressure range):

	Provides best balance of coverage and drift control
	Provides additional drift control by creating larger droplets
	No classification

Manufacturer	Nozzle Type	Size	Pressure		Pressure Range (PSI)																								
			Min	Max	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120		
TeeJet	TTI	110-02	15	80																									
		110-025	15	80																									
		110-03	15	80																									
		110-04	15	80																									
		110-05	15	80																									
		110-06	15	80																									
		110-08	15	65																									
		110-10	15	65																									
TeeJet	TTI60	110-03	15	70																									
		110-04	15	75																									
		110-05	15	65																									
		110-06	15	65																									
		110-08	15	70																									
Wilger	DR	110-03	30	50																									
		110-04	30	50																									
		110-05	30	70																									
		110-06	30	80																									
		110-08	30	70																									
		110-10	30	120																									
		110-125	30	120																									
	DX	40-08	20	70																									
	MR	80-04	25	40																									
		80-05	25	45																									
		80-06	25	70																									
		80-08	25	70																									
		80-10	25	70																									
		80-125	25	70																									
		110-04	25	30																									
		110-05	25	35																									
		110-06	25	60																									
		110-08	25	70																									
		110-10	25	70																									
		110-125	25	70																									
		SR	80-06	25	25																								
			80-08	25	60																								
	80-10		25	60																									
	80-125		25	60																									
	UR	110-03	30	90																									
		110-04	30	100																									
		110-05	30	100																									
		110-06	30	110																									
		110-08	30	90																									
		110-10	30	100																									

All qualified nozzle and pressure combinations for Enlist® herbicides are listed on [Enlist.com/nozzles](https://www.enlist.com/nozzles)



Information here is general guidance and not an endorsement or recommendation from Corteva AgriScience. Consult nozzle manufacturer or your advisor on nozzle and pressure selection. Minimum pressures are not recommended to achieve optimal coverage for weed control.



COLEX-D® technology

HERBICIDE

## Qualified Nozzles with Pressure Ranges (PSI)

Manufacturer	Nozzle Type	Size	Pressure		Pressure Range (PSI)																						
			Min	Max	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120
ABJ Agri	ABJ	110.04	40	40																							
		110.06	40	40																							
AlbuZ	AVI	110025	40	80																							
		11003	40	70																							
		11004	40	70																							
		11005	40	65																							
		11006	40	60																							
Greeneye Technology	GEE	25-03	20	80																							
Greenleaf	AM	11003	15	35																							
		11004	15	35																							
		11005	15	35																							
		11006	15	35																							
	TADF	025	20	45																							
		03	20	40																							
		04	20	50																							
		05	20	60																							
		06	20	60																							
		08	20	60																							
	TDXL	11003	30	40																							
		11004	30	45																							
		11005	30	65																							
		11006	30	75																							
	TDXL-D	11002-D	30	65																							
		110025-D	30	70																							
		11003-D	30	90																							
		11004-D	30	90																							
		11005-D	30	85																							
		11006-D	30	100																							
		11008-D	30	80																							
	SD	110-04	20	90																							
		110-05	20	85																							
		110-06	20	40																							
		110-08	20	80																							
		110-10	20	80																							
HyPro	TRD	80-03	20	55																							
		80-04	20	50																							
		80-05	20	55																							
		80-06	20	75																							
	ULD	120-03	20	30																							
		120-04	20	80																							
		120-05	20	70																							
		120-06	20	65																							
		120-08	20	40																							
	ULDM	130-03	30	80																							
		130-04	30	80																							
		130-05	30	100																							

## For PWM Systems:

**NOZZLE** Designed for use with PWM systems**NOZZLE** Use with John Deere ExactApply™ system ONLY

## Coverage guide (factor of type, size and/or pressure range):



- Provides best balance of coverage and drift control
- Provides additional drift control by creating larger droplets
- No classification

Manufacturer	Nozzle Type	Size	Pressure		Pressure Range (PSI)																							
			Min	Max	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	
John Deere	PSTSL	6005-R4	20	80																								
		6006-R4	20	80																								
		8005-R4	20	80																								
		8006-R4	30	75																								
	PSULD/ PSULDQ	2003	20	35																								
		2004	20	70																								
		2005	20	65																								
		2006	20	50																								
		2008	20	40																								
		PSULDM/ PSULDMQ	3003	30	80																							
	3004		30	80																								
	3005		30	100																								
	3006		30	100																								
	3008		30	100																								
	PSLDM/ PSLDMQ		2003	20	35																							
		2004	20	20																								
		2005	20	45																								
		2006	20	55																								
		2008	20	60																								
		2010	20	45																								
Lechler	ID	120-04	20	80																								
		120-05	20	80																								
TeeJet	AI	65-02E	30	70																								
		65-025E	30	70																								
		65-03E	30	75																								
		65-04E	30	80																								
		65-05E	30	80																								
		65-06E	30	80																								
		80-02	30	65																								
		80-025	30	75																								
		80-03	30	75																								
		80-04	30	75																								
	80-05	30	80																									
	80-06	30	80																									
	110-04	30	80																									
	110-06	30	80																									
	110-08	30	80																									
	AITTJ60	110-03	20	25																								
		110-04	20	35																								
		110-05	20	40																								
		110-06	20	40																								
		110-08	20	55																								
		110-10	20	55																								
		110-15	20	45																								
	AIXR	110-03	15	30																								
		110-04	15	60																								
		110-05	15	60																								
		110-06	15	60																								
		110-08	15	70																								
		110-10	15	75																								
	APTJ	110-02	20	90																								
		110-025	20	90																								
		110-03	20	90																								
		110-04	20	85																								
		110-05	20	90																								
		110-06	20	90																								
110-08		20	85																									

## For PWM Systems:

- NOZZLE** Designed for use with PWM systems
- NOZZLE** Use with John Deere ExactApply™ system ONLY

## Coverage guide (factor of type, size and/or pressure range):

-  Provides best balance of coverage and drift control
-  Provides additional drift control by creating larger droplets
-  No classification

Manufacturer	Nozzle Type	Size	Pressure		Pressure Range (PSI)																													
			Min	Max	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120							
TeeJet	TTI	110-02	15	65																														
		110-025	15	70																														
		110-03	15	65																														
		110-04	15	85																														
		110-05	15	65																														
		110-06	15	55																														
		110-08	15	55																														
		110-10	15	55																														
	TTI60	11003	15	65																														
		11004	15	60																														
		11005	15	55																														
		11006	15	50																														
		11008	15	50																														
			15	50																														
Wilger	DR	110-03	30	50																														
		110-04	30	50																														
		110-05	30	70																														
		110-06	30	70																														
		110-08	30	60																														
		110-10	30	100																														
		110-125	30	100																														
	DX	40-08	20	70																														
	MR	80-04	25	35																														
		80-05	25	45																														
		80-06	25	70																														
		80-08	25	70																														
		80-10	25	70																														
		80-125	25	70																														
		110-04	25	35																														
		110-05	25	35																														
		110-06	25	60																														
		110-08	25	60																														
		110-10	25	50																														
		110-125	25	70																														
		SR	80-06	25	25																													
	80-08		25	55																														
	80-10		25	60																														
	80-125		25	60																														
	UR	110-03	30	90																														
		110-04	30	100																														
		110-05	30	100																														
		110-06	30	100																														
		110-08	30	90																														
		110-10	30	100																														

All qualified nozzle and pressure combinations for Enlist® herbicides are listed on [Enlist.com/nozzles](https://www.enlist.com/nozzles)



Information here is general guidance and not an endorsement or recommendation from Corteva AgriScience. Consult nozzle manufacturer or your advisor on nozzle and pressure selection. Minimum pressures are not recommended to achieve optimal coverage for weed control.

# Field planning and application best management practices

## Start with field planning

Field planning is being aware of your surroundings in terms of compatible crops and susceptible crops.

Good field planning is just good common sense; it'll help maximize your success and the results of the Enlist® weed control system. Prior to an application of an Enlist® herbicide, carefully note the wind speed, wind direction, and the crops and landscape that are adjacent to the field you plan to spray.

Watch wind direction during an application – be aware of shifting winds during your application. DO NOT SPRAY Enlist® herbicides when wind is blowing toward adjacent susceptible crops.



Scan the QR code to find the application guide for Enlist® herbicides.



### Check wind speed and direction

- Apply when wind speed is between 3 and 10 mph. Make sure to check with the state you are applying in as wind speed requirements may vary by state. Maximum wind speed on federal label of Enlist herbicides is 15 mph.
- Always understand which crops and landscapes are downwind prior to making an application of an Enlist herbicide when deciding whether to spray or wait for better wind conditions.
- Be aware of shifting winds during your application.



### Avoid downwind susceptible crops

An important part of stewardship with the Enlist weed control system is staying aware of your surroundings. It is especially important to protect susceptible crops and landscapes that have a high relative sensitivity to the 2,4-D choline in Enlist herbicides.

Do not spray Enlist herbicides when the wind is blowing toward adjacent susceptible crops.

DO NOT SPRAY SUSCEPTIBLE CROPS
Cotton without Enlist® trait
Grapes
Cucurbits
Fruiting vegetables
Tomatoes
Tobacco

## Know what's around you

Be sure to find out what else is planted near your Enlist® field before you spray. That information is crucial to a safe application of an Enlist® herbicide that allows you to access all the advantages of the Enlist® weed control system.

For example, one advantage of having a compatible crop adjacent to an Enlist® field is you may apply an Enlist® herbicide when the wind is blowing within labeled wind speed range toward that compatible crop.

COMPATIBLE CROP EXAMPLES
All soybeans
Corn
Wheat
Alfalfa
Rice
Peanuts
Sorghum

## Controlling spray drift to improve on-target application

To minimize the potential for herbicide drift, consider these factors when deciding when and how to apply an Enlist® herbicide:

- Be mindful that wind direction and wind speed are within label parameters.
- Use only labeled nozzles and pressure ranges.
- Avoid temperature inversions. For more information on temperature inversions, see Page 27.
- Confirm the method of application is consistent with the label.

Always read and follow the product label as well as state and local requirements related to application of pesticides. Apply an Enlist herbicide only with properly calibrated ground application equipment.

### Remember:

**Do not apply an Enlist® herbicide under circumstances where spray drift may occur to food, forage or other plantings that might be damaged or rendered unfit for sale, use or consumption.** Do not allow contact of the herbicide with foliage, green stems or exposed nonwoody roots of crops or desirable plants, including trees and cotton without the Enlist® trait, because severe injury or destruction may result. Even small amounts of spray drift that may not be visible may injure susceptible broadleaf plants.

Before making an application, please refer to your state's sensitive-crop registry (if available) to identify any commercial specialty or certified organic crops that may be located nearby. At the time of your application, the wind cannot be blowing toward adjacent commercially grown tomatoes and other fruiting vegetables (both in EPA Crop Group 8), cucurbits including watermelon, pumpkin, squash and cucumbers (all in EPA Crop Group 9).

## Know and follow federal, state and local requirements

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. When you apply an Enlist® herbicide, you must follow all federal, state and local pesticide application requirements for Enlist Duo and/or Enlist One herbicides. Where states have more stringent regulations, they must be observed. Enlist Duo and Enlist One herbicides with Colex-D® technology are the only herbicides containing 2,4-D that are authorized for preemergence and postemergence use on Enlist® crops.<sup>8</sup>

It is a federal offense to use any pesticide in a manner that results in an unauthorized "take" (e.g., kill or otherwise harm) of an endangered species or certain threatened species, under the Endangered Species Act Section 9. When using Enlist® herbicides, you must follow the measures contained in the Endangered Species Protection Bulletin for the area you are applying the product.

Before use of Enlist Duo and/or Enlist One herbicides, review the Restrictions section of the label to confirm that the county in which use is intended is not one where use is prohibited. In addition, obtain an Endangered Species bulletin for the intended use location no earlier than six months prior to the application and follow measures listed relevant to that location for the protection of endangered species. To obtain bulletins, consult the website [www.epa.gov/espp](http://www.epa.gov/espp), call 844-447-3813 or email [espp@epa.gov](mailto:espp@epa.gov). You must use the bulletin valid for the month in which you will apply the product.

To report any ecological incidents, including mortality, injury or harm to nontarget plants or animals, call 855-ENLIST-1.

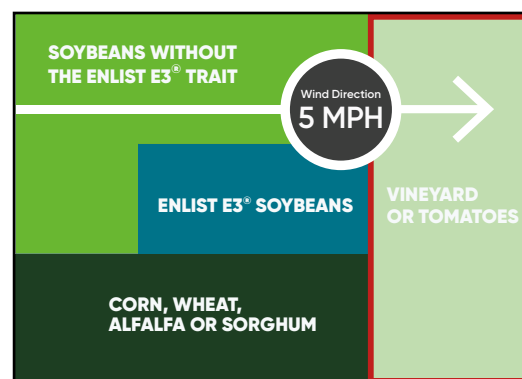
<sup>8</sup>Enlist Duo® and Enlist One® herbicides have additional county restrictions in AL, GA, TN and TX. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your area. Additional product-specific stewardship requirements for Enlist® crops can be found at [Enlist.com](http://Enlist.com). Always read and follow label directions.

## Field planning scenarios: Outside the Cotton Belt

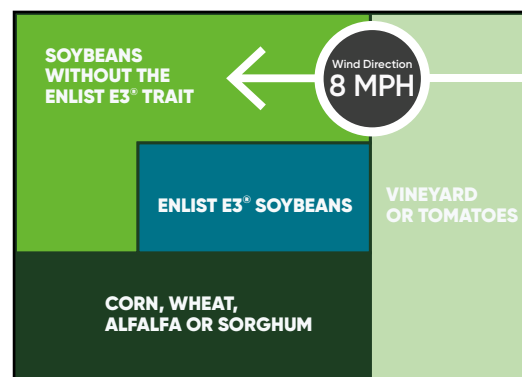
### IS IT OK TO SPRAY ENLIST ONE® OR ENLIST DUO® HERBICIDE?



If an adjacent susceptible crop is downwind, **DO NOT SPRAY** an Enlist® herbicide. Use glufosinate and/or glyphosate to stay ahead of weeds if necessary. Buffer distances do not protect downwind adjacent susceptible crops. The best scenario is to wait until wind is blowing directly away from the vineyard, tomatoes or other susceptible crop.

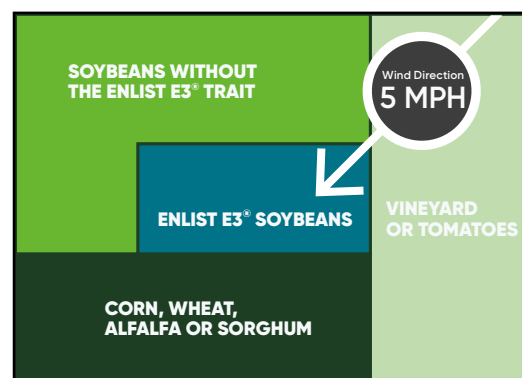


It's OK to spray when wind is blowing away from susceptible crops and toward soybeans without the Enlist E3® trait. Soybeans without the Enlist E3 trait are not a susceptible crop, meaning you can spray when the wind is blowing toward them with no field separation.



It's OK to spray and there are no wind directional restrictions when wind is blowing toward an adjacent compatible crop, such as corn, wheat, alfalfa or sorghum.

Watch for shifting wind during the application. If wind shifts toward the susceptible crop, stop spraying.

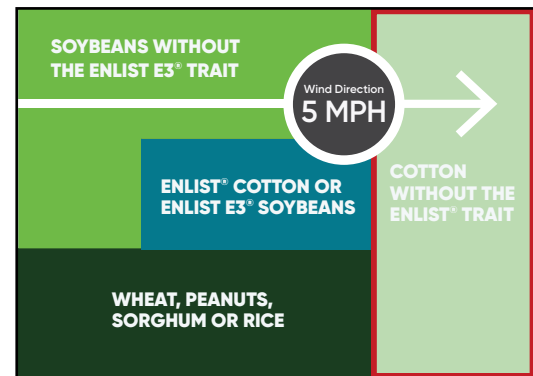


## Field planning scenarios: Inside the Cotton Belt

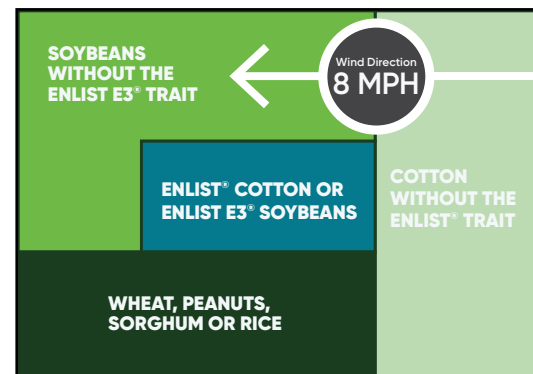
### IS IT OK TO SPRAY ENLIST ONE® OR ENLIST DUO® HERBICIDE?



If an adjacent susceptible crop is downwind, **DO NOT SPRAY** an Enlist® herbicide. Use glufosinate or glyphosate to stay ahead of weeds if necessary. Buffer distances do not protect downwind adjacent susceptible crops. The best scenario is to wait until wind is blowing directly away from the cotton without the Enlist® trait.

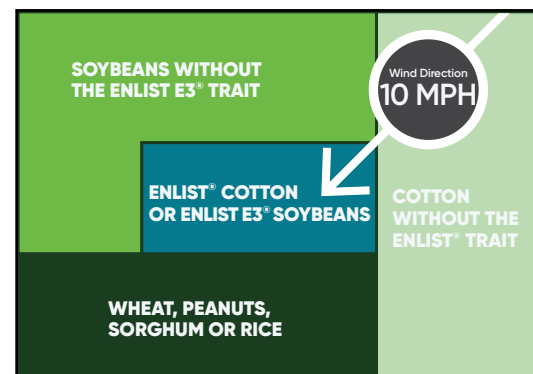


It's OK to spray when wind is blowing away from cotton without the Enlist trait and toward soybeans without the Enlist E3® trait. Soybeans without the Enlist E3 trait are not a susceptible crop, meaning you can spray when the wind is blowing toward them with no field separation.



It's OK to spray and there are no wind directional restrictions when wind is blowing toward an adjacent compatible crop, such as soybeans, corn, wheat, alfalfa, peanuts or rice.

Watch for shifting wind during the application. If wind shifts toward the cotton without the Enlist trait, stop spraying.

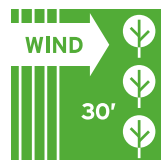


## Avoiding temperature inversions

A temperature inversion occurs when a layer of warm air covers a layer of cooler air and acts like a lid, preventing the cooler air from rising and dissipating into the upper atmosphere. During a temperature inversion, spray particles can become trapped in the warmer layer of air and stay suspended until wind movement increases, resulting in off-target movement. Never spray if you suspect a temperature inversion is present. You run the risk of damaging susceptible plants in nearby fields, lawns and gardens. Wait until later in the day and check again for a more favorable application environment.

Before every application, use steps like these to make sure a temperature inversion is not occurring:

- Monitor temperatures by using weather apps on your smartphone when planning an application and always check conditions in the field. If the temperature is within 5 degrees of the overnight low, closely check wind speed and particle movement in the field.
- Measure wind speed by using an anemometer. If wind is less than 3 mph, do not spray.
- Use smoke or powder to indicate particle movement. The smoke or powder should drift gently with the wind. If it gathers in a stationary, suspended cloud, that indicates a temperature inversion – do not spray.
- Measure the temperature at ground level (approximately 3 feet) and at 7 feet above ground. If the difference is more than a few (3-4) degrees, it is considered an inversion.



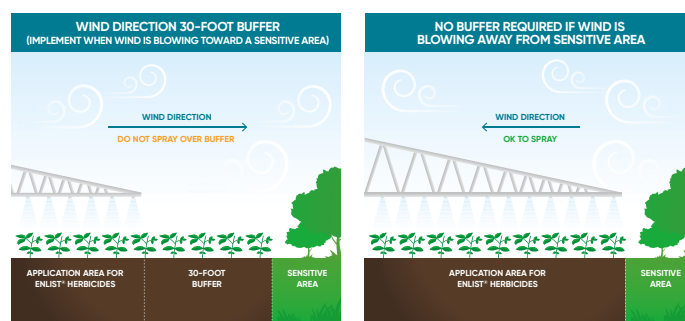
## Protecting sensitive areas

The labels for Enlist One® and Enlist Duo® herbicides require a downwind buffer from sensitive areas, which may be a habitat for endangered species.

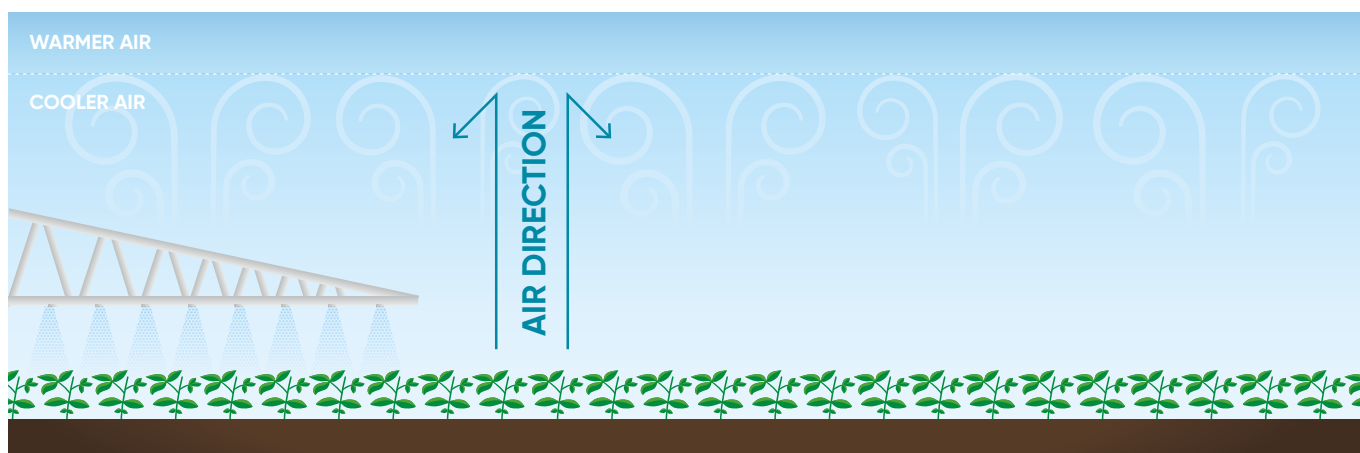
To minimize the chance for an Enlist® herbicide to come in contact with sensitive areas, you must maintain a 30-foot downwind buffer (in the direction in which the wind is blowing) from any area except:

- 1 Roads (paved or gravel surfaces)
- 2 Planted agricultural fields (except those crops mentioned in the susceptible crops section)
- 3 Agricultural fields that have been prepared for planting
- 4 Areas covered by the footprint of a building, feed crib or other man-made structure with walls and/or roof

To maintain the required downwind buffer zone, measure wind direction prior to the start of any swath that is within 30 feet of a sensitive area. No application swath can be initiated in or into an area that is within 30 feet of a sensitive area if the wind direction is toward the sensitive area.



## DO NOT APPLY AN ENLIST® HERBICIDE IF YOU SUSPECT A TEMPERATURE INVERSION



## Implementing runoff management practices

Sound management of runoff benefits landowners, farmers and the environment. Land managers/applicators must effectively implement mitigation measures that reduce, to the maximum extent practicable, runoff from treated fields. A variety of factors must be considered, including:

- Application scheduling:
  - Do not apply this product when soil is saturated or at field capacity, or when a storm event likely to produce runoff from the treated area is forecast (by NOAA/National Weather Service, or other similar forecasting service) to occur within 48 hours following application.
  - Do not irrigate treated field within 48 hours of application.
- Soil hydrologic grouping and corresponding mitigation measures
  - Users must know the soil hydrological type where application is occurring to implement required mitigation measures to prevent runoff. Soils are grouped into one of four categories based on runoff potential; refer to the Enlist® herbicide label for further information about these hydrologic soil group (HSG) categories.
  - The required minimum criteria described for runoff mitigation measures are outlined at [Enlist.com/MitigationMeasures](https://enlist.com/MitigationMeasures).
  - The farmer/land manager will achieve mitigation measure “credits” toward the total required by implementing mitigation measures, such as using residue tillage; by managing field strips, buffers and neighboring vegetation; or by using contour farming, as shown in the table.

MITIGATION MEASURES			CREDITS
Reduce number of applications – reduced number of applications of Enlist® herbicides per year. Applications may be made at any time during crop development but must maintain a minimum 12-day re-treatment interval.		3 applications	0
		2 applications	2
		1 application	4
Residue tillage management: no-till, strip-till, ridge-till and mulch-till			4
Vegetative filter strips	30-ft. off-field vegetative buffer on down slope	HSG A or B	2
		HSG C or D	0
	100-ft. off-field vegetative buffer on down slope	HSG A or B	4
		HSG C or D	1
Field border: border with dense vegetative stands with a minimum width of 30 ft.			2
Cover crop			2
Vegetative barrier: Permanent strips of dense vegetation along the contours of the field with a minimum width of 3 ft.			2
Contour buffer strips or terrace			2
Grassed waterway			2
Water and sediment basin			1
Contour farming or contour stripcropping			1

To learn more, visit [Enlist.com/MitigationMeasures](https://enlist.com/MitigationMeasures) or scan the QR code.





# Cleanout and record keeping



Clean out the sprayer and all spray equipment after applying an Enlist® herbicide

After applying an Enlist® herbicide, be sure to clean out the sprayer before making your next application to any other crop. Thorough cleanout of the entire sprayer – including spray tank, boom, screens, filters, hoses and nozzles – is the first step to minimize the potential for sprayer contamination and damage to susceptible crops. Also, remember to keep other equipment, such as pumps, clean before switching to the next product. Follow the most stringent cleanout recommendation of any tank-mix partner included in the tank with an Enlist herbicide.

TRIPLE-RINSE SPRAYER	IF THE NEXT CROP YOU'RE SPRAYING IS GLYPHOSATE-TOLERANT CORN
As outlined in this Product Use Guide	Single-rinse sprayer with at least 10% of sprayer volume



Scan the QR code to find the full sprayer cleanout guide.



- 1 Completely drain the system (including pump, lines and spray boom) for at least five minutes.
- 2 Fill the tank with clean water to at least 10% of the total tank volume.
- 3 Circulate through the entire system for at least 15 minutes.
- 4 Spray out the solution through the boom/nozzles.



- 1 Completely drain the spray system (including lines and spray boom) for at least five minutes.
- 2 Remove and clean the filters and strainers.
- 3 Fill the tank with clean water to at least 10% of total tank volume (including cleaning agents at recommended rates, if desired).
- 4 Circulate through the entire system for at least 15 minutes.
- 5 Let the solution stand for several hours, preferably overnight if time allows.
- 6 Spray out the solution through the boom/nozzles.



- 1 Completely drain the spray system (including lines and boom) for at least five minutes.
- 2 Fill the tank with clean water to at least 10% of the total tank volume.
- 3 Circulate through the entire system for at least 15 minutes.
- 4 Spray out the solution through the boom/nozzles.
- 5 Completely drain the spray system; and remove and clean nozzle tips and strainers separately.

## Record your application details

As part of good farm management practices, maintain detailed records of spraying, including:

- Field location and number of acres sprayed
- Crop sprayed and stage of growth
- Date of application, start time and finish time
- Application rates of herbicides sprayed and tank-mix partners
- Nozzles used, operating pressure and boom height
- Travel speed and carrier volume
- Air temperature and relative humidity
- Wind speed and direction
- Sprayer and boom cleanout
- Dates when reviewed labels and state/federal regulatory guidelines

## Application summary

### Apply with confidence

Successful use of Enlist® herbicides begins with proper application. Below is a summary of best management practices for applying an Enlist® herbicide. Visit [Enlist.com/Apply](https://enlist.com/Apply) to download the application guide. Always read and follow label requirements.

#### BEFORE SPRAYING



#### Application window

Apply Enlist® herbicides within the appropriate growth stage windows.

**Enlist® cotton:** No later than first white bloom

**Enlist E3® soybeans:** Through R1 growth stage

**Enlist® corn:** No larger than V8 growth stage or 30 inches tall, whichever happens first

- Unless applying with drop nozzles, then may spray up to 48 inches tall



#### Tank-mix partners

Use multiple, effective sites of action, including partner herbicides. Follow the correct tank-mix sequence as detailed on the label.

**Glufosinate:** Tank-mix Enlist One® herbicide with a qualified glufosinate herbicide for the toughest broadleaves.

**Glyphosate herbicides:** Tank-mix Enlist One herbicide with a qualified glyphosate herbicide for grasses and glyphosate-susceptible broadleaves



#### Nozzles

Select the best qualified nozzle and pressure that optimizes coverage for your application scenario.

View the full list of nozzles for use with Enlist herbicides at [Enlist.com/Nozzles](https://enlist.com/Nozzles).



#### Sprayer contamination

Clean your sprayer before using Enlist herbicides to avoid contamination from a prior application.

#### PAY SPECIAL ATTENTION TO WIND AND WEATHER CONDITIONS



#### Wind speed, weather

**Wind speed:** Drift potential is lowest at wind speeds less than 10 mph. Target applications at wind speeds greater than 3 mph but less than 10 mph.

**Caution:** Do not apply at wind speeds greater than 15 mph.

**Consult:** Some states have additional restrictions on wind speed. Check your state regulations on wind speed.

#### Temperature inversions:

Do not spray during a temperature inversion.

**Caution:** Inversions are more common between dusk and dawn.



#### Susceptible crops

Spray when wind is blowing away from susceptible crops listed on the Enlist® herbicide labels. This includes: tomatoes, fruiting vegetables, cucurbits, grapes, cotton without the Enlist® trait and tobacco.

**Caution:** There is no acceptable buffer distance when the wind is blowing toward an adjacent susceptible crop. **DO NOT SPRAY** if wind is blowing toward a susceptible crop.

## APPLICATION



### Spray volume

Use a spray volume of 10 to 15 gallons or more per acre and apply with calibrated ground equipment.

Do not apply less than 10 gallons of total spray volume per acre. In general, increase spray volume as crop canopy, height and weed density increase to obtain adequate spray coverage.<sup>3</sup>

Special note on tank mix of Enlist One® + glufosinate: Use a spray volume of 15 to 20 gallons per acre. Do not apply less than 15 gallons of total spray volume per acre.



### Spray rate

Use spray rates from the product labels when weeds are shorter than 6 inches and crops are within the appropriate growth stage window.

**Enlist Duo® herbicide:** Spray 4.75 pt./A.

**Enlist One herbicide:** Spray 2 pt./A.



### Spray pressure

Use an appropriate spray pressure within the qualified range for optimum coverage. Spraying at the higher end of the labeled psi will provide better coverage.

Ground speed, product volume and nozzle selection all factor into the appropriate spray pressure.



### Boom height

To minimize spray drift potential, maintain a boom height as specified by the nozzle manufacturer, usually 24 inches or less above crop canopy.<sup>4</sup>

## AFTER SPRAYING



### Cleanout

After applying an Enlist® herbicide, follow the proper steps to clean out your sprayer. Triple-rinse is required for all cleanouts unless the next crop you are spraying is glyphosate-resistant corn.



Scan the QR code to find the full application guide for Enlist® herbicides.

<sup>3</sup>May require a broader management plan including timely application and use of a soil residual herbicide.

<sup>4</sup>Always read and follow the product label as well as state and local requirements.



## Soybeans, corn and cotton with the Enlist® trait

Consult [BioTradeStatus.com](https://www.biotechstatus.com) for regulatory approval information on the Enlist® trait.

### What to know about Enlist E3® soybean varieties

When you plant Enlist E3® soybean varieties, you get crop tolerance to 2,4-D choline, glufosinate and glyphosate. Enlist E3® soybeans provide crop tolerance that enables you to use Enlist Duo® or Enlist One® herbicide as the cornerstone of a program approach for weed control.

HERBICIDE TOLERANCE OF ENLIST E3® SOYBEAN VARIETIES
2,4-D CHOLINE
GLUFOSINATE
GLYPHOSATE

### When growing Enlist E3® soybeans near conventional soybeans and/or soybeans without the Enlist E3® trait (coexistence)

Soybeans are a naturally self-pollinating crop with very low risk of mixing by cross-pollination.

**Enlist Duo and Enlist One herbicides with Colex-D® technology are the only herbicides containing 2,4-D that are authorized for preemergence and postemergence use with Enlist E3 soybeans.**

### What to know about Enlist® corn

When you plant any corn hybrid with the Enlist® corn trait, you get ultimate weed management flexibility with robust herbicide trait tolerances – including 2,4-D choline, glyphosate and aryloxyphenoxypropionate (FOP) herbicides.<sup>2</sup> Additionally, SmartStax® Enlist®, PowerCore® Enlist®, PowerCore® Ultra Enlist®, and Vorceed® Enlist® hybrids include glufosinate tolerance. Non-Bt Enlist® hybrids do NOT contain glufosinate tolerance. Enlist® corn provides crop tolerance that enables you to use Enlist Duo® or Enlist One® herbicide as part of a program approach for weed control.

HERBICIDE TOLERANCE OF ENLIST® CORN HYBRIDS <sup>9</sup>				
	SMARTSTAX® ENLIST®	POWERCORE® ENLIST®	POWERCORE® ULTRA ENLIST®	VORCEED® ENLIST®
2,4-D CHOLINE	Tolerant	Tolerant	Tolerant	Tolerant
GLUFOSINATE	Tolerant	Tolerant	Tolerant	Tolerant
GLYPHOSATE	Tolerant	Tolerant	Tolerant	Tolerant
FOP HERBICIDES <sup>2</sup>	Tolerant	Tolerant	Tolerant	Tolerant
CYCLOHEXANEDIONE (DIM) HERBICIDES	Not tolerant	Not tolerant	Not tolerant	Not tolerant

<sup>2</sup>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.

<sup>9</sup>**HERBICIDE TOLERANCE:** Some Bt corn hybrids are available with Roundup Ready® and LibertyLink® herbicide tolerance traits, making them tolerant to over-the-top applications of glyphosate and glufosinate-ammonium herbicides. However, non-Bt Enlist® hybrids do not contain glufosinate tolerance. Verify the weed control system before making over-the-top herbicide applications. Always read and follow label directions. Use of a herbicide over the top of a corn hybrid that does not contain the tolerance trait for the herbicide will cause crop damage.



## Next-generation pest protection

Vorceed® Enlist® corn from Corteva Agriscience offers superior above- and below-ground insect protection, including three modes of action against corn rootworm. The superior genetics in Vorceed Enlist corn provide industry-leading flexibility, allowing you to tailor management practices to your acres for maximum yield potential.

## Controlling volunteer corn

Because Enlist® corn is tolerant to 2,4-D choline, glufosinate<sup>1</sup> and FOP herbicide, use a cyclohexanedione (DIM) herbicide, such as Select Max or Poast Plus herbicide, to control volunteer Enlist corn in the following years.

For volunteer management of integrated refuge corn products purchased from a Corteva Agriscience seed brand: A refuge component code ending in "LRE" is an Enlist® corn – REFUGE product, which provides crop safety for over-the-top applications of glyphosate, glufosinate, quizalofop (FOP) and 2,4-D choline herbicides featuring Colex-D® technology when applied according to label directions. A refuge component code ending in "LR" or "23" is a LibertyLink® Roundup Ready® 2 Technology product, which provides crop safety for over-the-top-applications of glyphosate and glufosinate herbicides. Refer to the Corteva Corn Seed Product Use Guide at [TraitStewardship.com](http://TraitStewardship.com) for more information on volunteer management.

## When growing Enlist® corn near conventional corn and/or corn without the Enlist® trait (coexistence)

Corn is a naturally cross-pollinated crop, and a small amount of corn pollen movement to nearby fields is not uncommon. You can reduce undesired pollen movement with a few simple steps:

- Maintain a noncorn buffer between fields containing crops with biotechnology traits and conventional crop fields.

- Consider field location relative to the field containing biotech traits: Cornfields oriented upwind will have less cross-pollination compared with fields located downwind.
- Discuss your crop-planting plans with relevant neighbors in advance.

**Enlist Duo® and Enlist One® herbicides with Colex-D® technology are the only herbicides containing 2,4-D that are authorized for preemergence and postemergence use with Enlist corn.**



# What to know about Enlist® cotton

Enlist® cotton provides improved weed control with exceptionally effective Enlist® herbicides. The trait allows you to apply herbicides featuring multiple sites of action for even better control of glyphosate-resistant weeds. When you plant any Enlist® W3FE cotton variety, you get crop tolerance to 2,4-D choline, glufosinate and glyphosate herbicides. Enlist W3FE cotton provides crop tolerance that enables you to use Enlist Duo® or Enlist One® herbicide as part of a program approach for weed control.

Enlist® W3E1 cotton is a nonglyphosate-traited offering, allowing farmers to use Enlist One herbicide for more flexibility in a program approach, and is more effective than glufosinate alone.

HERBICIDE TOLERANCE OF ENLIST® W3FE COTTON VARIETIES	HERBICIDE TOLERANCE OF ENLIST® W3E1 COTTON VARIETIES
TRAIT STACK: WIDESTRIKE® 3 INSECT PROTECTION, ROUNDUP READY® FLEX, ENLIST®	TRAIT STACK: WIDESTRIKE® 3 INSECT PROTECTION, ENLIST®
2,4-D CHOLINE	2,4-D
GLUFOSINATE	GLUFOSINATE
GLYPHOSATE	

## Stalk destruction for Enlist cotton

All Enlist® cotton varieties are tolerant to 2,4-D choline. Therefore, stalk destruction for Enlist cotton may differ from traditional chemical stalk destruction procedures. Herbicide active ingredients other than

2,4-D must be used for stalk destruction for Enlist cotton. Recommended options include dicamba, Duplosan® and thidiazuron with crop oil concentrate. For full details, see [Enlist.com](http://Enlist.com) or your PhytoGen or Corteva Agriscience representative.

For more information on the Boll Weevil Eradication Program and complete requirements, visit the Texas Department of Agriculture website: [TexasAgriculture.gov/RegulatoryPrograms/CottonStalkDestruction](http://TexasAgriculture.gov/RegulatoryPrograms/CottonStalkDestruction)

## When growing Enlist cotton near conventional cotton and/or cotton without the Enlist® trait (coexistence)

Cotton is a naturally cross-pollinated crop, and a small amount of cotton pollen movement to nearby fields is not uncommon. You can reduce undesired pollen movement with a few simple steps:

- Maintain a noncotton buffer between fields containing crops with biotechnology traits and conventional crop fields.
- Consider field location relative to the field containing biotech traits: Cotton fields oriented upwind will have less cross-pollination compared with fields located downwind.
- Discuss your plans with relevant neighbors in advance.

**Enlist Duo and Enlist One herbicides with Colex-D® technology are the only herbicides containing 2,4-D that are authorized for preemergence and postemergence use with Enlist cotton.**



## Using the Enlist® weed control system to help prevent herbicide resistance development

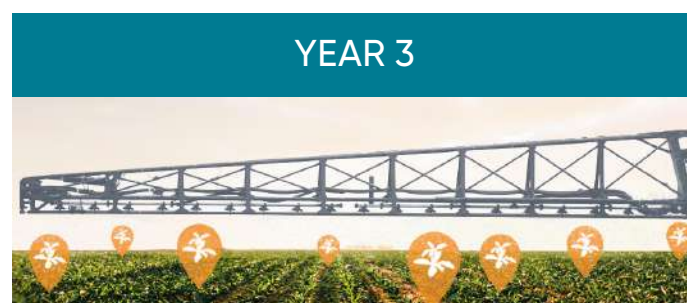
Glyphosate technology became the farm industry standard for weed control for many farmers. But using glyphosate as the primary, or only, herbicide site of action has resulted in glyphosate-resistant and hard-to-control weeds, including waterhemp, marestail, Palmer amaranth and giant ragweed. Repeated use of any single herbicide may reduce effectiveness for weed control.

You can help manage weed resistance with an understanding of herbicide resistance and taking steps to prevent it.

### How weed resistance spreads

For the first few years a herbicide is used, **targeted** weeds are controlled; however, after repeated application of the same herbicide – or herbicides with the same site of action – a few naturally occurring **resistant** weeds can remain in the field each year. As time goes on and resistant weeds thrive, the weed population starts to contain an even larger number of resistant weeds. Over time, the resistant weeds become the dominant population – rendering the herbicide no longer effective on that species.

The Enlist® weed control system provides an effective tool to use against these herbicide-resistant weeds, including glyphosate, ALS- and HPPD-resistant weeds. Use the Enlist® system as part of an integrated weed management program to deliver the exceptional performance you need.



### Take advantage of different herbicide sites of action

It is a best practice to minimize selection for herbicide-resistant weed populations by proactively diversifying weed control strategies. A diversified weed management program may include the use of multiple herbicides with different sites of action and an overlapping weed control spectrum in combination with other practices, such as tillage operations and/or other cultural practices where appropriate. Using the labeled rate for herbicides and following directions for use is important to help prevent the onset of resistance.

The Weed Science Society of America (WSSA) classifies 2,4-D as a Group 4 herbicide (synthetic auxin) and glyphosate as a Group 9 herbicide (inhibitor of EPSP synthase). As with some herbicides, some naturally occurring weed biotypes that are resistant to 2,4-D or glyphosate may exist due to genetic variability in a weed population.

## Steps to help prevent weed resistance

Implementing a successful weed resistance management program will help ensure the continued efficacy of the Enlist® weed control system. These steps are important to the ongoing success of your program.

### 1 Use a herbicide PROGRAM APPROACH – with multiple sites of action

- Start with a clean field, using either a burndown herbicide application or tillage. Use a broad-spectrum soil residual herbicide with different sites of action, followed by a timely postemergence application that contains multiple sites of action, including an Enlist® herbicide and a product with extended residual activity.
- If resistance is suspected, treat weed escapes with a herbicide that has a site of action other than Group 4 or 9 (if Enlist Duo® herbicide was used) or Group 4 (if Enlist One® herbicide was used) and/or use nonchemical methods to remove escapes, as practical, with the goal of preventing seed, root or tuber production.
- Utilize sequential applications of herbicides with alternative sites of action.
- Rotate the use of an Enlist herbicide with non-Group 4 herbicides (when using Enlist One herbicide) and non-Group 9 herbicides (when using Enlist Duo herbicide).
- **Never use Enlist One herbicide alone.** Always plan a program approach with Enlist One herbicide plus additional qualified tank-mix partners containing non-Group 4 herbicides or sequential postemergence applications of non-Group 4 herbicides.
- Avoid using more than two applications of an Enlist herbicide and any other Group 4 or Group 9 herbicide (when using Enlist Duo herbicide) or Group 4 (when using Enlist One herbicide) within a single growing season unless in conjunction with another site of action herbicide with an overlapping spectrum.

### 2 Make TIMELY APPLICATIONS of herbicides

- Apply full labeled rates of an Enlist herbicide to actively growing weeds once the majority reach 3 to 6 inches in height.

### 3 SCOUT WEEDS before and after application

- Scout fields before application to ensure herbicides and use rates will be appropriate for the weed spectrum and weed size present.
- Scout fields after application to detect weed escapes or shifts in weed spectrum.
- Early detection of possible resistant species can limit the spread of these weed populations and allow for the implementation of alternate weed management practices.

### 4 SEE THE BIG PICTURE, beyond the field and the herbicide

- Incorporate nonchemical weed control practices, such as mechanical cultivation, crop rotation, cover crops and weed-free crop seeds, as part of an integrated weed control program.
- Manage weeds in and around fields, during and after harvest, to reduce weed seed production.
- Thoroughly clean plant residues from equipment before leaving fields suspected to contain resistant weeds.

### 5 Agronomic and cultural PRACTICES

- Rotate crops and cultural practices to allow for a wider range of weed control practices.
- Use only commercial, weed-free crop seed.

**Report any incidence of nonperformance of an Enlist® herbicide against a particular weed species to a representative or 855-ENLIST1 (855-365-4781).**

## Potential crop response after applications of Enlist® herbicides

You may see temporary crop response with Enlist E3® soybeans and Enlist® cotton within a few hours of applying Enlist® herbicides. This cosmetic response does not impact yield. This “droop” or “sleepy” effect on the crop occurs while the plant is working to metabolize 2,4-D choline. It is more likely to occur in conditions where the plant is stressed, including hot daytime temperatures. The plants metabolize the 2,4-D choline and return to normal typically within 24 to 48 hours.

### Leaf drooping



- Temporary auxin response
- Appears within a few hours of application
- Dissipates within 12 to 36 hours
- Likely due to rapid effect of 2,4-D in plant prior to metabolism by enzyme
- No impact on yield

### Leaf necrosis



- Appears within one to three days after application
- Only affects new growth at time of application
- New growth shows no necrosis
- No impact on yield

## Protect pollinators while using Enlist® herbicides

Pollinators — including bees, birds, bats, butterflies, ants and other insects and vertebrates — play a key role in the health of our food systems and environment. Nearly 75% of food crops worldwide — as well as 90% of wild plant species — rely on pollinators. These crops represent between \$325 billion and \$577 billion worth of food production each year.<sup>10</sup>

A healthy pollinator population is one metric by which to measure a diverse ecosystem. Soil health, water quality and biodiversity are all important in delivering ecosystem benefits and an affordable and abundant food supply. Corteva Agriscience actively works to protect the health of both pollinators and the ecosystems they inhabit through a variety of initiatives.

<sup>10</sup>Food and Agriculture Organization of the United Nations. 2016. Pollinators vital to our food supply under threat. <https://www.fao.org/newsroom/detail/Pollinators-vital-to-our-food-supply-under-threat/en>

Some best management practices to reduce potential pesticide exposure to pollinators include:

- Protect and enhance nonfarmland pollinator habitat, such as wildflower areas, border areas, and hedge and fencerows.
- Understand the pollinator needs for food, shelter and protection from hazards in your operations.
- Follow all product label restrictions and recommendations to protect pollinators.
- Follow all field planning and application best management practices listed in this guide to fully understand neighboring environments and to reduce potential pesticide exposure to these environments.
- Read and implement any required pollinator protection practices as provided by your seed supplier, such as the Corteva™ 2025 Soybean United States Product Use Guide found at [TraitStewardship.com](https://www.TraitStewardship.com).

Provisions in Enlist® herbicide labels intended to minimize the potential of exposure to pollinators include:

- Precautionary language in environmental hazard section:
  - “This product is designed to control certain weeds and if used outside the label requirements may adversely impact the forage and habitat of nontarget organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of nontarget organisms by following label directions intended to minimize spray drift and runoff.”
  - “This product is moderately toxic to bees on an acute basis and may cause chronic risk to pollinators or other terrestrial invertebrates. Do not apply this product to blooming vegetation or if bees or other pollinating insects are visiting the treatment area.”
- Directions for use:
  - “Do not apply in soybeans containing the Enlist® trait after the R1 growth stage.”
  - “Do not apply to cotton containing the Enlist trait after first white bloom.”
  - “Follow all label directions in Spray Drift Management and Management of Runoff sections for all applications.”
  - “Do not apply Enlist herbicide aerially.”
  - “Do not apply during a temperature inversion.”
  - “Do not apply with any tank-mix partner that is not listed on [EnlistTankMix.com](https://www.EnlistTankMix.com).”
  - “Use only qualified nozzles.”

Find additional information to protect pollinators by scanning the QR codes.



Enlist One®  
herbicide label



Enlist Duo®  
herbicide label

## What you'll need before using this technology

Before you can legally obtain, plant or grow crops containing the Enlist® trait, you must have a valid, executed Corteva Agriscience™ Technology Use Agreement on file with Corteva Agriscience.

Please check with your Corteva Agriscience dealer, distributor or licensed representative if you have questions on your Technology Use Agreement status. You may also visit [TraitStewardship.com](https://www.traitstewardship.com) or call 800-258-3033 to sign your Technology Use Agreement.

You should always review your Technology Use Agreement and consult your trait provider's technical guides before planting – and always read and follow pesticide label directions. If you have questions about this guide or a crop containing Corteva Agriscience™ technologies and traits, contact your seed seller.

**Innovation is critical to the future of farming**, and non-compliant crop protection product use and/or misappropriation of seed products put growers' access to future innovation at risk. Protecting these products provides many benefits to our customers, licensees, business partners and the environment. Corteva Agriscience is fully committed to properly stewarding our crop protection and seed products, as well as protecting the intellectual property of the products we produce and license. This message is a reminder of the tools available that are designed to protect all Corteva innovations, including the Enlist® weed control system.

## Use of 2,4-D containing products on Enlist traitled crops

Enlist® herbicides are not the same as other 2,4-D-containing products, which is why following burndown, Enlist One® and Enlist Duo® herbicides are the ONLY herbicides containing 2,4-D that are authorized and specifically labeled for use on Enlist crops. Enlist herbicides were the first to be evaluated and registered consistent with EPA's new enhanced Endangered Species Assessment (ESA) Policy and provide significant benefits to growers, including neighbor-friendly weed control. You can learn more about the Enlist weed control system at [Enlist.com](https://www.enlist.com).

- The inherent characteristics of 2,4-D choline and Colex-D® technology contained in Enlist herbicides provide near-zero volatility and reduced potential for physical drift.
- When applied according to the label, Enlist herbicides are 96% less volatile than 2,4-D ester and 88% less volatile than 2,4-D amine.
- Tank-mix partners are tested prior to being listed to confirm no significant increase in the potential for physical drift. Nozzles are also extensively tested prior to being approved for use with Enlist herbicides.

## Technology Use Agreements (TUA)

Growers are required to sign Corteva Technology Use Agreements (TUA) prior to obtaining access to intellectual property-protected products and traits from Corteva. The TUA outlines the grower's responsibilities and obligations regarding Corteva-provided intellectual property and references Product Use Guides so that growers follow and adhere to proper product stewardship. For more information, please visit [TraitStewardship.com](https://www.traitstewardship.com).



**Scan this QR code for additional resources about Corteva Trait Stewardship.**



## Why monitoring compliance is important

Stewardship is achieved by your adherence to the Technology Use Agreement, Product Use Guides and all applicable product labels. Identifying fields where Enlist® crops are grown and what herbicides are applied to these fields is key information required to monitor compliance. Through third-party surveys and on-farm assessments, farmers may receive a request for information about fields planted with Enlist crops and herbicides used. **Failure to follow stewardship requirements will result in action by Corteva Agriscience that may include requiring additional education and training, monitoring, and up to and including loss of access to the technology.**

## Anonymous Tip Line for reporting suspected non-compliant product use.

Growers and others can anonymously report unauthorized use of non-Enlist 2,4-D products with Enlist crops – as well as misuse of seed technology like bin-run/saved seed – by contacting an industry tip line established by the Seed Innovations and Protection Alliance (SIPA) at (844) 733-3847 or by visiting [SeedIPAlliance.com](https://SeedIPAlliance.com).



Scan the QR code additional resources from the Seed Innovations and Protection Alliance website.

## Corteva Agriscience is committed to protecting Enlist® herbicides and Enlist® traits.

In cases of confirmed misuse or inappropriate promotion, along with education, the following can occur:

- Potentially reporting illegal use to State/Federal agencies and/or seeking restitution.
- Restricting grower access to seed technology.



## Why crop and grain marketing stewardship matters

Corteva Agriscience is a member of Excellence Through Stewardship® (ETS). Corteva Agriscience™ products are commercialized in accordance with ETS Product Launch Stewardship Guidance and in compliance with the Corteva Agriscience policies regarding stewardship of those products. In line with these guidelines, our product launch process for responsible launches of new products includes a long-standing process to evaluate export market information, value chain consultations and regulatory functionality. Growers and end users must take all steps within their control to follow appropriate stewardship requirements and confirm their buyer's acceptance of the grain or other material being purchased. For more detailed information on the status of a trait or stack, please visit [BioTradeStatus.com](https://BioTradeStatus.com).



Scan the QR code to learn more about seed coat color variation.

## Seed coat

### Understanding seed coat color variation in Enlist E3® soybeans

In addition to ease of use, exceptional weed control and high yield potential with Enlist E3® soybeans, farmers may occasionally see a seed coat color variation. This color variation in Enlist E3 soybeans is from naturally occurring substances found in soybeans. It typically appears as a light brown band connecting ends of the hilum and/or light brown shadows on each side of the hilum. It can range from very slight to a darker tint and varies in frequency, geography, growing season (year to year) and position on the plant or within pods. The seed coat color variation is not due to application of herbicides, such as 2,4-D choline.

Effective Sept. 1, 2023, the Agricultural Marketing Service revised the table of Grade Limits and Breakpoints for soybeans to remove soybeans of other colors as an official factor for the United States Standards for Soybeans.



## **The bottom line**

Corteva has and will continue to take an education-based stewardship approach that is meant to be a partnership with our customers. We want customers to understand how to use the technology and how proper use allows further innovation to occur for years to come. While we intend to take a partnership approach, Corteva will take appropriate steps to protect our technology, and each confirmed case of unauthorized use will be handled with suitable action.

## Helpful resources for you

- **Website for the Enlist® system:** [Enlist.com](https://enlist.com)
- **Qualified tank-mix products:** [EnlistTankMix.com](https://enlisttankmix.com)
- **Qualified nozzles and pressures:** [Enlist.com/Nozzles](https://enlist.com/Nozzles)
- **Runoff management practices:** [Enlist.com/MitigationMeasures](https://enlist.com/MitigationMeasures)
- **Cotton stalk destruction:** [TexasAgriculture.gov/RegulatoryPrograms/CottonStalkDestruction](https://texasagriculture.gov/RegulatoryPrograms/CottonStalkDestruction)
- **Herbicide Resistance Action Committee:** [HRACGlobal.com](https://hracglobal.com)
- **Take Action:** [IWillTakeAction.com](https://iwilltakeaction.com)
- **Trait Regulatory and Market Status:** [BioTradeStatus.com](https://biotradestatus.com)
- **Trait Stewardship and Corteva™ Technology Use Agreements:** [TraitStewardship.com](https://traitstewardship.com)
- **Weed Resistance Management Training:** [SoyGrowers.com](https://soygrowers.com)
- **Weed Science Society of America:** [WSSA.net](https://wssa.net)



Ready to learn more?  
Scan the QR code for direct access to the  
Enlist® Ahead training module.

[illegible]

To find product labels and additional resources about the Enlist® weed control system, visit [Enlist.com](http://Enlist.com) or scan this QR code.



[illegible]

To find product labels and additional resources about the Enlist® weed control system, visit [Enlist.com](http://Enlist.com) or scan this QR code.



<sup>1</sup>Non-*Bt* Enlist® hybrids do not contain glufosinate tolerance. See bag tag to verify herbicide tolerance.

<sup>2</sup>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.

<sup>3</sup>Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your area. Additional product-specific stewardship requirements for Enlist® crops can be found at Enlist.com. Always read and follow label directions.

<sup>4</sup>May require a broader management plan including timely application and use of a soil residual herbicide.

<sup>5</sup>Always read and follow the product label as well as state and local requirements.

<sup>6</sup>Products listed on EnlistTankMix.com have not been tested for crop response or physical tank-mix compatibility. Listing on website does not imply agronomic recommendation or endorsement of use.

<sup>7</sup>Talk with your retailer for recommendations on preemergence and residual herbicides for your farm.

<sup>8</sup>FulTime® NXT and Keystone® NXT are Restricted Use Pesticides.

<sup>9</sup>Enlist Duo® and Enlist One® herbicides are not registered for sale in AK, CA, CT, HI, ID, MA, ME, MT, NH, NV, OR, RI, UT, VT, WA and WY and have additional county restrictions in AL, AZ, CO, FL, GA, LA, NY, PA, SC, TN and TX. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your area. Following burndown, Enlist Duo and Enlist One herbicides with Colex-D® technology are the only herbicides containing 2,4-D that are authorized for preemergence and postemergence use with Enlist® crops. IT IS A VIOLATION OF FEDERAL AND STATE LAW TO MAKE AN IN-CROP APPLICATION OF ANY 2,4-D HERBICIDE PRODUCT WITH ENLIST CROPS, OR ANY OTHER PESTICIDE APPLICATION, UNLESS THE PRODUCT LABELING SPECIFICALLY AUTHORIZES THE USE. Consult Enlist® herbicide labels for weed species controlled. Additional product-specific stewardship requirements for Enlist crops, including the product use guides, can be found at Enlist.com. Always read and follow label directions.

<sup>10</sup>**HERBICIDE TOLERANCE:** Some *Bt* corn hybrids are available with Roundup Ready® and LibertyLink® herbicide tolerance traits, making them tolerant to over-the-top applications of glyphosate and glufosinate-ammonium herbicides. However, non-*Bt* Enlist® hybrids do not contain glufosinate tolerance. Verify the weed control system before making over-the-top herbicide applications. Always read and follow label directions. Use of a herbicide over the top of a corn hybrid that does not contain the tolerance trait for the herbicide will cause crop damage.

<sup>11</sup>**Food and Agriculture Organization of the United Nations. 2016.** Pollinators vital to our food supply under threat. <https://www.fao.org/news/story/en/item/384726/icode/>

™ ® Corteva Agriscience, Afforia, Arylex, Basis, Colex-D, Corteva, Elevore, Enlist, Enlist Duo, Enlist E3, the Enlist Logos, Enlist One, Enlite, Enversa, Enville, EverpreX, FulTime, Keystone, Kyber, Kyro, LeadOff, PhytoGen, Realm Q, Refuge Advanced, Resicore, Sonic, Staple, SureStart, Surpass, Surveil, Trivence, TruChoice, Vorceed and WideStrike are trademarks of Corteva Agriscience and its affiliated companies. PowerCore® and SmartStax® multi- event technologies developed by Corteva Agriscience and Monsanto. PowerCore® is a registered trademark of Monsanto Technology LLC. ®Roundup, Roundup Ready and SmartStax are registered trademarks of Bayer Group. **Always follow IRM, grain marketing and all other stewardship practices and pesticide label directions. ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.** Roundup Ready® technology contains genes that confer tolerance to glyphosate, an active ingredient in Roundup® brand agricultural herbicides. Agricultural herbicides containing glyphosate will kill crops that are not tolerant to glyphosate. B.t. products may not yet be registered in all states. Check with your seed representative for the registration status in your state. ®Assure II is a trademark of AMVAC Chemical Corporation. Duplosan® is a registered trademark of NuFarm Americas Inc. ®LibertyLink is a registered trademark of BASF. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship. Agrisure Viptera® is a registered trademark of, and used under license from, a Syngenta Group Company. Mirl62 is part of Agrisure Viptera® and is a registered trademark of Syngenta Agro SA. The PowerCore® Ultra Enlist® Refuge Advanced® trait is not yet available for sale or distribution in the U.S. Corteva products are launched in accordance with Corteva Agriscience launch policies and Excellence Through Stewardship® Product Launch Guidance. Grain and byproducts produced from PowerCore® Ultra Enlist® corn material cannot be marketed in jurisdictions where not authorized, including Mexico, until the applicable approval is granted. Refer to <http://www.biotradestatus.com/> for updated information on regulatory status, as well as <http://www.traitstewardship.com/> for additional stewardship requirements. FulTime® NXT and Keystone® NXT are Restricted Use Pesticides. The transgenic event in Enlist E3® soybeans is jointly developed and owned by Corteva Agriscience and M.S. Technologies L.L.C. 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 herbicide are the only 2,4-D products authorized for use with Enlist® crops. Consult Enlist herbicide labels for weed species controlled. Afforia®, Basis® Blend, Elevore®, Enlite®, Enversa®, Enville®, EverpreX®, FulTime NXT®, Kyber Pro, Kyro®, LeadOff®, Realm® Q, Resicore®, Resicore® REV, Sonic®, Sonic Boom, Staple® LX, SureStart® II, Surveil® and Trivence® are not registered for sale or use in all states. Keystone NXT is not available for sale, distribution or use in all states. FulTime NXT, Keystone NXT, Kyro, Resicore, Resicore REV, and SureStart II are not available for sale, distribution or use in Nassau and Suffolk counties in the state of New York. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your state. Arylex® is a registered active ingredient. Always read and follow label directions.

© 2024 Corteva. 024203 BR (12/24)



[Enlist.com/ProductUseGuide](https://enlist.com/ProductUseGuide)

