

The background features abstract geometric shapes in shades of blue and green. On the left, a solid blue shape curves inward. On the right, several overlapping, semi-transparent shapes in various shades of blue and green create a layered effect. The text is centered in the white space between these shapes.

EPA's Recent Registration Actions for Enlist One and Enlist Duo

Presentation Purpose

Provide a brief summary of EPA's recent actions for Enlist One and Enlist Duo, including the January 2022 amendments to extend the expiration date and the March 2022 amendments to allow use in additional counties.

January 2022 Amendments to Extend the Expiration Date

Amendments to Extend the Expiration Date

- ▶ Product registrations for Enlist One and Enlist Duo were set to expire 01/12/2022 unless the registrations' expiration dates were amended.
- ▶ EPA met its Endangered Species Act (ESA) obligations and issued registration while consultation with FWS is ongoing.

Summary of Enlist Mitigation Changes (1/2)

- ▶ To address risk to terrestrial invertebrates/pollinators:
 - ▶ Crop growth stage-based timing restrictions
 - ▶ Applications only allowed through the R1 stage for Enlist soybeans and up to the first white bloom for Enlist cotton crops (note that these restrictions are specific to the crop)
 - ▶ Updated environmental hazard statements
- ▶ To address on-field risks to listed species:
 - ▶ Prohibition of use for either Enlist One, Enlist Duo, or both products in 39 counties due to risks for listed species
- ▶ To address off-field risks to listed species based on runoff:
 - ▶ Mitigation measures to address runoff provided in pick-list format (more discussion later).
 - ▶ Prohibition on applying within 48 hours of irrigation or when rainfall is expected, up from 24 hours on previous labels.
 - ▶ Prohibition on applying Enlist herbicides to saturated fields.

Summary of Enlist Mitigation Changes (2/2)

- ▶ Expanded herbicide resistance management requirements
 - ▶ Includes mandatory field scouting before and after application for fields where Enlist herbicides are applied
- ▶ Updated Terms and Conditions of Registration. Highlights include:
 - ▶ Updated annual reporting requirements expanded the applicator survey requirements for registrants
 - ▶ Required module on monarch/pollinator protection in registrants-required training for purchasers of Enlist crop seed.
 - ▶ Supplemental labeling requirements for pre-2022 extension Enlist product.
 - ▶ Registrant agreement to either amend or voluntarily cancel Enlist registrations based upon the results of formal ESA consultation.

Runoff Mitigation Pick-list

- ▶ Image at Right: Screenshot of pick-list of conservation practices added to Enlist labels to reduce 2,4-D and glyphosate concentrations in runoff.
- ▶ ALL users must select practices that sum up to at least either 4 or 6, depending on the soil type of their land.
- ▶ Link included to a registrant-maintained website (that has been reviewed by EPA) that describes each practice in greater detail, based on EPA analysis. This site sets out minimum requirements for implementation of each practice.

Management of Runoff

A variety of factors including soil type, slope, and weather conditions (e.g., rainfall) can influence volume and intensity of water running off the treated field. The applicator must evaluate all factors and make appropriate adjustments when applying this product. Land management, field condition and application practices that reduce, to the maximum extent practicable, runoff from treated fields, must be implemented by land managers/users of this product.

To reduce the potential for runoff and avoid off field impact from treated fields to maximum extent practicable, applicator must plan/schedule applications to maximize time between an application of this product and anticipated rainfall (or planned irrigation). Application must take place no less than 48 hours prior to irrigation or predicted rainfall (by NOAA/National Weather Service, or other similar forecasting service).

For land with **Hydrologic Soil Groups* A & B**: The land manager/applicator must effectively implement measures in the following tables to equal a **minimum of 4 credits**.

For land with **Hydrologic Soil Groups* C & D**: The land manager/applicator must effectively implement the measures in the following tables to equal a **minimum of 6 credits**.

Mitigation Measures		Credits	
Reduce number of applications - Reduced number of applications of Enlist products per year. Applications may be made at any time during crop development but must maintain a minimum 12-day retreatment 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	

*Hydrologic Soil Group (HSG) definitions: A = Sand, loamy sand, or sandy loam; B = Sandy clay loam; C = Silt loam or loam; D = Clay loam, silty clay loam, sandy clay, silty clay or clay.

Applicators/Land Managers must meet minimum criteria described for each mitigation measure as outlined on [Enlist.com/mitigationmeasures](https://enlist.com/mitigationmeasures) to receive credits.

March 2022 Amendment to Allow Use in Additional Counties

March 2022 Amendment to Allow Use in Additional Counties

- ▶ Allows use of Enlist One and Enlist Duo in 128 additional counties that Corteva did not originally propose for use, plus six Minnesota counties that EPA originally prohibited from use for Enlist Duo.
 - ▶ Based on a new request from Corteva and new information available from FWS, EPA was able to grant the amendment allowing use in these additional counties.
 - ▶ These additional counties are included in the same consultation that was already begun as part of the renewal action through an update to the consultation dated 3/28/2022.
 - ▶ Addition of these counties allows use in the entire state of Arkansas, Kansas, Missouri, Minnesota, Nebraska, Ohio, Oklahoma, and South Dakota. It also allows use in six additional Texas counties.
- ▶ Additionally, EPA corrected an oversight on the Enlist One and Enlist Duo product labels by removing prohibition statements for two counties in Massachusetts and Rhode Island, as those prohibition statements were unnecessary as use was already not permitted in those states.

Questions