

Enlist Label Update Information

January 2022
For External Use





Corteva Agriscience announces Enlist Herbicide Reregistration Amendment

- U.S. Environmental Protection Agency (EPA) has completed the registration amendment process for Enlist One® and Enlist Duo® herbicides
- Enlist herbicides received a seven-year registration through January 11, 2029.

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Summary of Label Changes

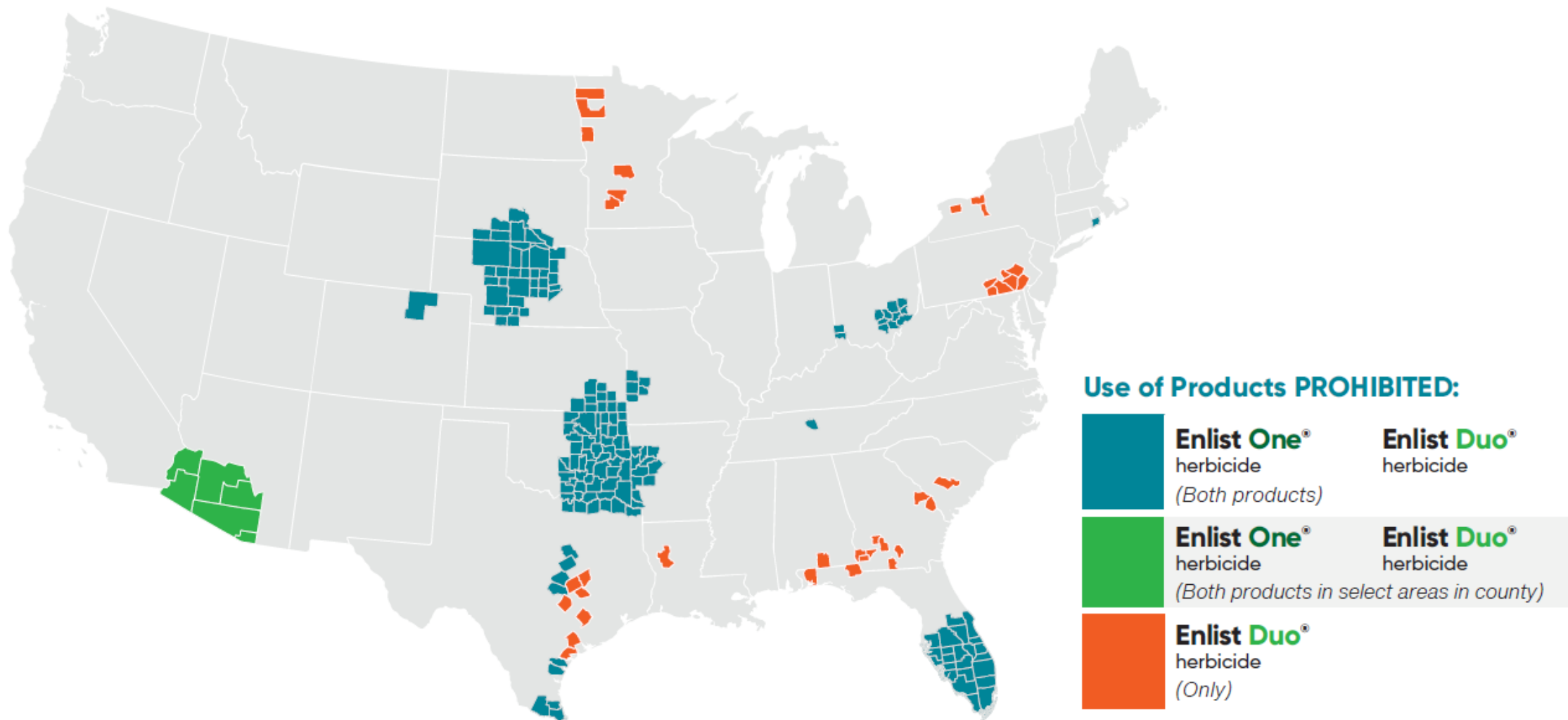
While the new registrations largely align with the product registrations granted in 2017, key changes include:

- **Application timing for cotton and soybeans – similar to glufosinate and dicamba timing:**
 - Soybeans changed from “Up to R2” to “Through R1”
 - Cotton changed to “first white flower”
- **A “pick list” of runoff mitigation measures for land managers – to allow farmers flexibility in how they manage lands**
- **Geographic restrictions for specific counties where certain on-field listed species may be present**
- **The addition of more than 100 new spray nozzles to the qualified nozzle list**
(see label for specific instructions)

Additionally: with the receipt of the federal label, individual state registrations are being quickly sought

Enlist One® and Enlist Duo® herbicides county restrictions:

The map and county lists below represent county restrictions found on the federal Enlist One® and Enlist Duo® herbicide registrations as of January 11, 2022.



Background

- Herbicides subject to federal (U.S.) and state registrations
- EPA regulates pesticides under two major statutes in the U.S.
 - The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Federal Food, Drug, and Cosmetic Act.
 - These laws have been amended by the Food Quality Protection Act and the Pesticide Registration Improvement Act.
- EPA must also comply with the Endangered Species Act when it takes certain actions.
- Enlist herbicides were previously registered in January 2017 for five years.

Key Messages

This is good news for farmers and for Corteva.

- Corteva is continuing to accelerate the ramp up of Enlist seed and crop protection solutions. We've seen strong grower demand for the system. Enlist® weed control system is America's fastest-growing soybean trait herbicide system.
- The seven-year reregistration provides certainty to growers.
- Corteva takes sustainability and protection of the environment seriously. The updates will help ensure that use of Enlist herbicides in accordance with the label will continue to meet the requirements of the ESA while also allowing growers to continue to capture the benefits of the Enlist weed control system.
- Corteva remains committed to grower education efforts through its Enlist Ahead management resource. We have a robust communication effort planned.
- We are working hard to keep you informed and updated on what this means for you.

Full confidence in Enlist® weed control system

Proven track record of system

- 50MM acres of Enlist® herbicides used since 2017
- Four consecutive years of growth for Enlist herbicides

U.S. based Enlist One® supply chain & manufacturing

- Confident in robust supply for Enlist One 2022 growing season

Advantages over dicamba

- Near-zero volatility
- No calendar cutoff dates
- Greater tank-mix flexibility
- Effective weed control

Recognize the impact on farmers in certain counties

- Work closely with growers on alternate weed management strategies for their Enlist fields
- Submitting additional data wherever feasible so that some of the geographic label restrictions may be removed

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General weed management guidance for Enlist® crops without the use of Enlist® herbicides

The federal label for Enlist® herbicides issued in January 2022 includes prohibition of use of Enlist herbicides in some counties to protect listed threatened or endangered species and critical habitat. Farmers growing Enlist® crops in these counties can build a weed management plan using a robust program approach that features multiple modes of action and best management practices.

Please contact your local Corteva Agriscience Agronomist or Enlist Field Specialist for the specific crop protection needs in your county.

To help ensure herbicides are effective now and in the future, Corteva Agriscience emphasizes the importance of a using a program approach to weed resistance management.

A robust program approach includes the following:

Scout: Scout your fields to know what weeds are present and to determine the best herbicide selections for your fields this year.

Start clean: Start clean with a clean seedbed by using tillage, a burndown or both.

Burndown options:

- **Elevore®** herbicide: soybeans and cotton
- **LeadOff®** herbicide: cotton
- Consider a glyphosate tank-mix
- Traditional 2,4-D herbicides can be used for burndown prior to planting Enlist crops – labeled plant-back restriction to soybeans MUST be followed

Use a robust preemergence application:

Utilize an effective preemergence residual herbicide or herbicides to deliver two or more effective sites of action. Always use full labeled rates for maximum efficacy.

- **Kyber®** or **Trivence®** herbicides: soybeans (both feature three modes of action)
- **Additional options in soybeans:** Afforia®, Enlite®, Envive®, Sonic® or Surveil® herbicides
- **Staple®** LX herbicide: cotton
- **Additional options in cotton:** Brake, Cotoran, Diuron, Prowl or Treflan herbicides

Make timely postemergence applications:

After your preemergence application, come back with a timely postemergence application or multiple planned postemergence passes depending on weed pressure. Use herbicides or tank mixes with multiple sites of action and include a layered residual such as EverpreX® herbicide to stretch postemergence weed control. Always use full labeled rates for maximum efficacy.

Postemergence glyphosate and/or glufosinate herbicides enabled by trait tolerances in Enlist E3® soybeans & Enlist® cotton:

- **Liberty®** herbicide (glufosinate): apply in Enlist E3® soybeans up to R1 growth stage; apply in Enlist cotton up to early bloom
- **Durango® DMA®** or **Abundit®** Edge herbicides (glyphosate): apply in Enlist E3 soybeans no later than R2 growth stage; apply in Enlist cotton up to 7 days prior to harvest

Traditional herbicides options:

- **Synchrony®** XP herbicide: soybeans
- Products containing fomesafen, imazethapyr or cloransulam-methyl

Include a layered residual to extend control:

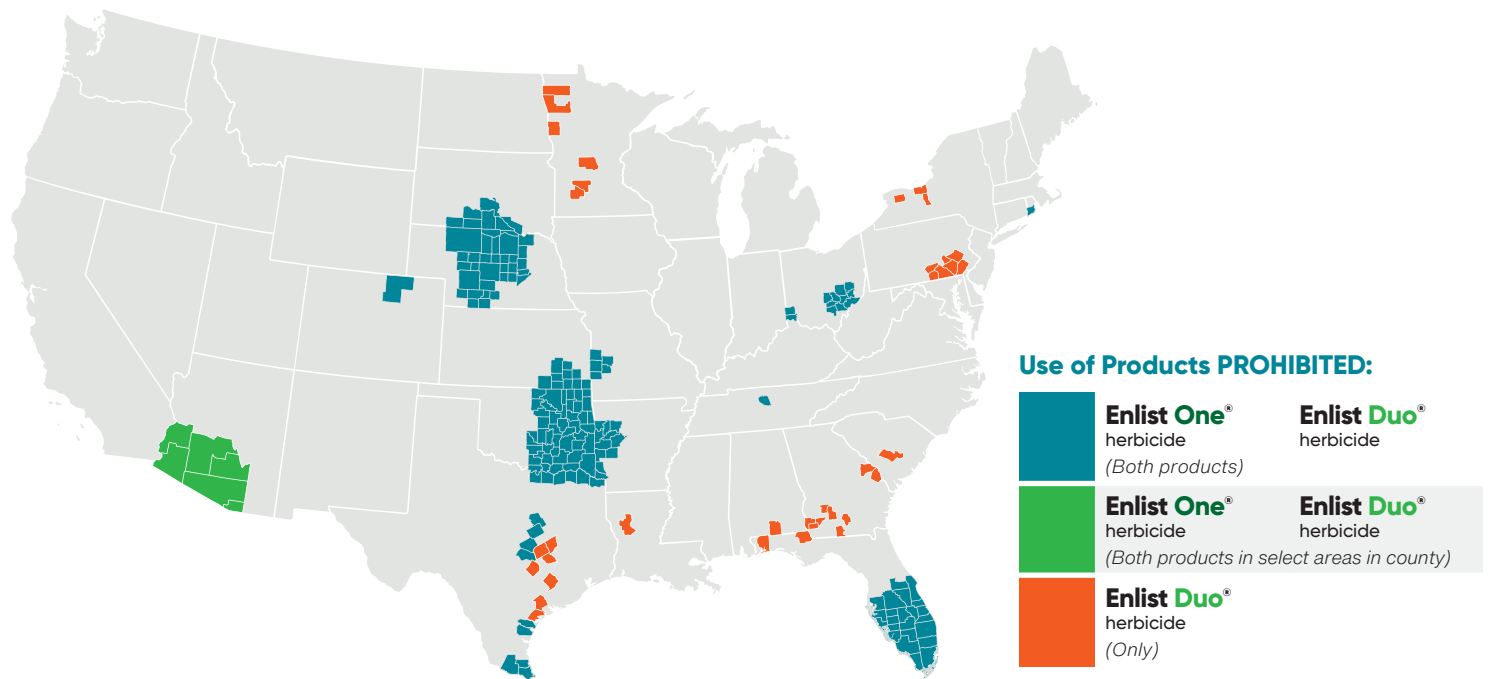
- **EverpreX®** herbicide
- Acetochlor, metolachlor and s-metolachlor products for postemergence use

In addition to a program approach, follow these recommendations for successful weed management:

- Use full, labeled herbicide rates to help prevent the onset of resistance.
- Control weeds when they're small and actively growing. Weeds less than 6 inches have fewer growing points for herbicides to target and control.
- Select the right nozzles, pressure, and boom height indicated on the herbicide label for optimal coverage.
- Think of the big picture that goes beyond the field and herbicides. Develop an integrated weed control program by incorporating mechanical cultivation, rotating crops, using cover crops and planting weed-free crop seed. Also, reduce weed seed production by managing weeds in and around fields, both during and after harvest.

Enlist One® and Enlist Duo® herbicides county restrictions:

The map and county lists below represent county restrictions found on the federal Enlist One® and Enlist Duo® herbicide registrations as of January 11, 2022.



Counties where only Enlist Duo CANNOT be applied

Note: Enlist One herbicide can be applied in these counties. Qualified tank mix partners for Enlist One are found at [EnlistTankMix.com](https://www.enlisttankmix.com).

AL: Covington

FL: Jackson, Santa Rosa

GA: Baker, Berrien, Brooks, Burke, Calhoun, Early, Irwin, Lee, Miller, Screven, Worth

LA: Natchitoches

MN: Clay, Marshall, Polk Redwood, Renville, Stearns

NY: Genesee, Seneca, Wayne

PA: Adams, Berks, Chester, Cumberland, Lancaster, Lebanon, York

SC: Orangeburg

TX: Bastrop, Burleson, Colorado, Milam, Refugio, Robertson, Victoria

Counties where NEITHER Enlist One nor Enlist Duo can be applied:

AZ: Do not use in Yuma, Pinal or Pima counties in areas south of Interstate Highway 8 and west of US Highway 85 or on land administered by the US Fish and Wildlife Service or National Park Service. In Maricopa, La Paz, and Santa Cruz counties, do not use on land administered by the US Fish and Wildlife Service or National Park Service.

AR: Crawford, Franklin, Johnson, Little River, Logan, Montgomery, Polk, Scott, Sebastian, Sevier, Yell

CO: Weld

FL: Brevard, Broward, Charlotte, Collier, DeSoto, Glades, Hardee, Hendry, Highlands, Hillsborough, Indian River, Lee, Manatee, Martin, Miami-Dade, Okeechobee, Orange, Osceola, Palm Beach, Polk, Sarasota, St. Lucie

KS: Chautauqua, Cherokee, Cowley, Elk, Greenwood, Labette, Montgomery, Neosho, Wilson, Woodson

MA: Nantucket (**note:** Enlist herbicides are not federally registered in the state of Massachusetts)

MO: Barton, Bates, Cedar, St. Clair, Vernon

NE: Antelope, Blaine, Boone, Boyd, Brown, Cherry, Custer, Dawson, Frontier, Furnas, Garfield, Gosper, Greeley, Hayes, Holt, Hooker, Howard, Keya Paha, Knox, Lincoln, Logan, Loup, McPherson, Merrick, Nance, Phelps, Red Willow, Rock, Sherman, Thomas, Valley, Wheeler

OH: Athens, Butler, Fairfield, Guernsey, Hamilton, Hocking, Morgan, Muskingum, Nobel, Perry, Vinton, Washington

OK: Adair, Atoka, Bryan, Carter, Cherokee, Choctaw, Cleveland, Coal, Craig, Creek, Delaware, Garvin, Haskell, Hughes, Johnston, Kay, Latimer, Le Flore, Lincoln, Love, Marshall, Mayes, McClain, McCurtain, McIntosh, Murray, Muskogee, Noble, Nowata, Okfuskee, Okmulgee, Osage, Ottawa, Pawnee, Payne, Pittsburg, Pontotoc, Pottawatomie, Pushmataha, Rogers, Seminole, Sequoyah, Tulsa, Wagoner, Washington

RI: Washington

SD: Bennett, Charles Mix, Gregory, Lyman, Mellette, Todd, Tripp

TN: Wilson

TX: Bell, Bowie, Cameron, Cooke, Fannin, Grayson, Hidalgo, Hill, Lamar, McLennan, Nueces, Red River, San Patricio, Willacy, Williamson

Clarification on map issued by EPA

- The map to the right was included by the EPA in their memo regarding the label
- As the map shows, Corteva Agriscience did apply for Enlist One® and Enlist Duo® herbicides registrations in the pink highlighted states – this includes the various colored counties within those states.
- For any gray colored states outside of the pink highlighted states, these states were never a part of the Enlist registration.
 - Since 2017, Enlist post emergence applications to corn, cotton and soy uses were only ever requested in 34 states.
- For counties colored differently inside the pink area, Corteva did include those counties in the registration application.
 - Corteva did not make any changes in our application for the 2022 label from the 2017 label in terms of county restrictions.
 - These counties are currently labeled off due to the Endangered Species Assessment, not due to Corteva's lack of request in the registration submission.

Graphic included in EPA memo

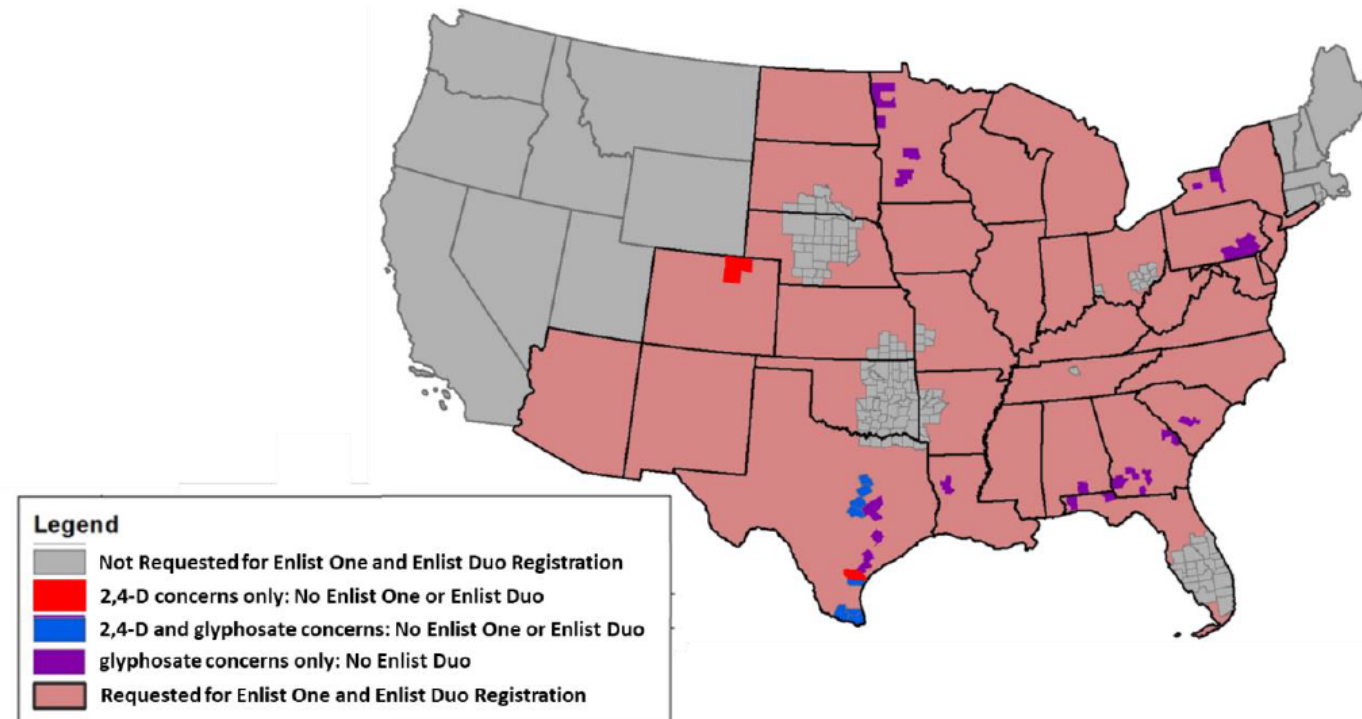


Figure 1. Distribution of the proposed use area (pink) for Enlist One and Enlist Duo. The use of Enlist One and Enlist Duo are prohibited in the red and blue areas. Enlist One may be used in the purple areas, while the use of Enlist Duo is prohibited in these areas.

What is Corteva Agriscience doing to address these counties?



- Corteva was informed by the EPA that the risk to certain listed species had changed due to recently submitted data and newly implemented models. Corteva was also informed that in order to refine the risk assessment, additional data would be needed.
- Therefore, counties with these on-field listed species had to be labeled off until new data was submitted, reviewed and accepted by the EPA.
- Corteva has completed additional studies that would address the vast majority of those counties, and Corteva will submit the study data to the EPA next week along with refinements for other species.
- It is possible that some county restrictions may be removed in the coming months based on the new data that will be submitted, but it is too early to speculate.

Addressing additional questions about county prohibitions

- The registration amendment process was extremely fluid and evolving. Corteva did not have a final label and registration documents until Jan. 11, 2022, including the final list of affected counties.
- Throughout the multi-year registration process, EPA initiated appropriate agency consultations and reviewed multiple new data submissions and studies to enable it to update its Risk Assessments.
- Corteva Agriscience has -- and continues to -- conduct studies and work to provide additional data to EPA to allow the agency to remove some of these geographic label restrictions while still ensuring protection of listed species and their habitats, consistent with the requirements of the ESA.
- It is possible that some county restrictions may be removed in the coming months, including prior to the 2023 growing season, but it is too early to speculate.
- Corteva Agriscience requested an amended registration of Enlist® herbicides for post emergence applications to corn, cotton and soy in line with the same 34 states where the herbicides were registered in 2017. In the case of the 2017 registrations, there were several counties identified by the EPA that were labeled off to protect listed species that may be present on agricultural lands. Since 2017, additional species have been listed; further, new scientific studies that focused on terrestrial invertebrates, including several species of bees and beetles, have been submitted to the EPA, changing the scientific landscape on which the prior Endangered Species Act (ESA) Risk Assessment was based.

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