

RRXtend Spray App

FACT SHEET

PREPARING FOR A SUCCESSFUL 2018 GROWING SEASON

Monsanto Company has launched a free mobile app to help growers and applicators plan successful applications of XtendiMax® Herbicide with VaporGrip® Technology. The RRXtend Spray App is a grower- and applicator-focused digital tool that provides location-specific weather forecasts, digital record keeping capabilities, and educational resources related to the Roundup Ready® Xtend Crop System. Growers can download the app for free on the Apple App Store® and on Google Play®. The RRXtend Spray App does not replace the applicator's need to confirm compliant application conditions at the time of spray.

KEY FEATURES



WEATHER FORECASTS

Provides field-level, location-specific 16-hour forecasts (hour-by-hour), including the following:

Forecasts are developed using publicly available weather data from the U.S. National Oceanic and Atmospheric Administration (NOAA) and unique models by The Climate Corporation, a subsidiary of Monsanto Company.

- Wind speed and direction are forecast at approximately 3 ft above the ground for more application-relevant forecasting.
- Inversion risk forecast shows the probability (by percentage) of an inversion occurring at a specific location and forecast hour.
- Temperature and relative humidity.



RECORDKEEPING

Gives applicators an easy way to comply with federal dicamba recordkeeping requirements through the following features:

- Digitally input application records with greater ease of use, including smartfill capabilities.
- Create a one-time profile, and this information auto-populates into future records.
- Save and export multiple field records, and store information on a mobile device.



EDUCATIONAL RESOURCES

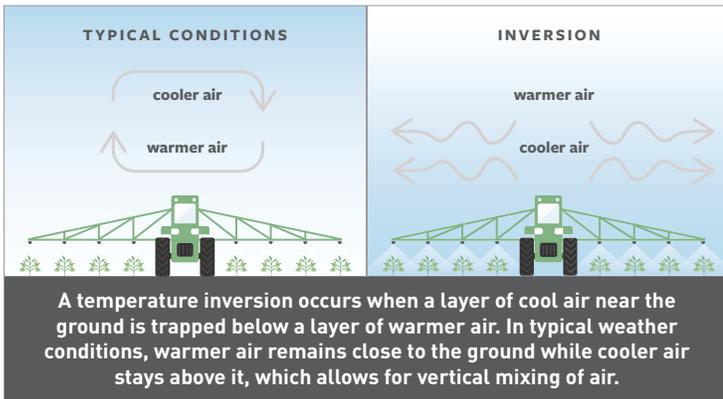
Access to helpful information all in one place, at your fingertips:

- Connects to key resources including training information, product labels and information on approved tank mixes and nozzles.
- Educational videos, including information on the methods and models utilized in the inversion risk forecast tool.

Forecasts are for planning purposes only and are not a substitute for checking actual weather conditions at your location at the time of application and complying with the product label and other legal requirements.

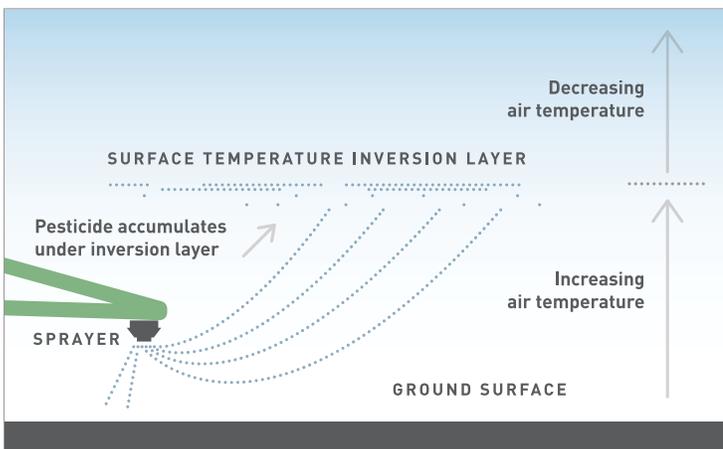
XtendiMax® herbicide with VaporGrip® Technology is part of the Roundup Ready® Xtend Crop System and is a restricted use pesticide for retail sale to and use only by Certified Applicators or persons under their direct supervision. ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready®, VaporGrip® and XtendiMax® are trademarks of Monsanto Technology LLC. All other trademarks are the property of their respective owners. ©2018 Monsanto Company. All Rights Reserved.

WHAT IS A TEMPERATURE INVERSION?



- Temperature inversions are common early in mornings and in evenings and nights when there is limited cloud cover and light to no wind. A temperature inversion can begin to form as the sun sets and often continue into the morning. Ground fog or dew on plant leaves are indicators an inversion exists.
- A temperature inversion will typically dissipate with increased winds (greater than 3 mph) or at sunrise when the surface air begins to warm (at least an increase of 3°F from the morning low temperature).

TEMPERATURE INVERSION CAN CAUSE OFF-TARGET MOVEMENT



- Risk for off-target movement (drifting) of any herbicide formulation sprayed increases during a temperature inversion.
- That's because when the atmosphere is very stable and vertical air mixing is restricted, the very small, suspended spray droplets can remain in a concentrated cloud for hours. This cloud can move in unpredictable directions due to the light variable winds common during inversions.
- In the time between when they are sprayed and when they settle onto vegetation, these small particles can move to non-target areas, potentially damaging susceptible crops or other vegetation.
- Even sprayer tips designed to produce large droplets also produce some small (200 microns or less) droplets.

RRXTEND SPRAY APP PROVIDES KEY DATA TO MAKE INFORMED DECISIONS

- Inversion risk can vary from hour-to-hour, day-to-day. Continued monitoring for key weather conditions, such as wind direction and temperature, is vital to avoid applying a herbicide during a temperature inversion on the field.
- Monsanto's RRXTend Spray App provides field-level, location-specific hourly forecasts that show the probability (by percentage) of an inversion occurring. Forecasts on the App update every hour so applicators should check regularly.
- The unique inversion-risk forecast feature helps farmers and applicators make proper decisions on timing of dicamba herbicide application.

Forecasts are for planning purposes only and are not a substitute for checking actual weather conditions at your location at the time of application and complying with the product label and other legal requirements.

For more information about the RRXTend Spray App and the Roundup Ready® Xtend Crop System, call 1-844-RRXTEND (779-8363).