



Roundup Ready® Xtend Crop System for Cotton

// The Roundup Ready® Xtend Crop System for cotton is an in-crop system that uses herbicide-tolerant trait technologies to help maximize yield potential, weed control, and cotton quality. The cotton technologies linked to this system are Bollgard II® XtendFlex® cotton technology and Bollgard® 3 XtendFlex® cotton technology. They are triple-stacked herbicide-tolerant technologies with tolerance to dicamba, glyphosate, and glufosinate herbicides.

Cotton tolerance to these three herbicides, each with a different site of action, provides for a weed management system that is flexible for herbicide selection and tank-mixing. The herbicide combinations, where approved, can be used for pre- and/or post-plant weed management.

Additionally, Bollgard II® XtendFlex® cotton technology provides two unique *Bacillus thuringiensis* (*B.t.*) proteins and Bollgard® 3 XtendFlex® cotton technology provides three unique *B.t.* proteins to protect cotton bolls from Lepidopteran insect pests.

One herbicide linked to this in-crop weed management system is XtendiMax® herbicide with VaporGrip® Technology (Restricted Use Pesticide).

The label for XtendiMax with VaporGrip Technology must be read and followed*. The herbicide provides outstanding weed control in fields planted to dicamba-resistant cotton products.

**Growers/applicators MUST read and follow the labels of ALL products applied to XtendFlex® cotton. XtendiMax with VaporGrip Technology and products with XtendFlex® Technology may not be approved in all states and may be subject to use restrictions in some states.*

General Weed Control Guidelines

For best management, a residual herbicide should be used prior to planting to hold back weed emergence. Emerged weeds should be managed before they become too large for control to reduce the opportunity for survival and the potential development of herbicide resistance. Certain residual herbicides can be tank-mixed with Roundup® brand agricultural herbicides. Refer to the product label for tank-mixing partners and instructions for use.



To successfully control weeds, at least two herbicide applications per season should include a residual herbicide. Recommended in-crop residual herbicides for cotton include Warrant® Herbicide and Dual Magnum®.

Applicators may use XtendiMax with VaporGrip Technology only in states that have approved the product. Individual states may require additional precautions and instructions that do not appear in the federal label for the use of XtendiMax with VaporGrip Technology.

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Applicators must have all federal labeling with them at the time of use, they must read and follow all label directions, and they are required to attend dicamba application training. State regulatory agencies must be contacted for the most current local guidelines for use in the area where an application is to be applied.

Spray nozzles and tank-mix partners must be approved for use with XtendiMax with VaporGrip Technology. A current list of approved nozzles and tank-mix partners can be found at XtendiMaxApplicationRequirements.com.

In-crop applications of XtendiMax with VaporGrip Technology to cotton with Bollgard II® XtendFlex® cotton technology and Bollgard® 3 XtendFlex® cotton technology can be made in approved regions from cotton emergence up to mid-bloom stage or no more than 60 days after planting*, whichever occurs first.

The maximum and minimum use rate for a single, in-crop application is 22 fl oz/acre (0.5 lb a.e. dicamba). For best performance, weeds should be controlled when they are less than 4 inches in height. A maximum of two in-crop applications can be applied but must not exceed a total of 44 fl oz/acre (1.0 lb a.e. dicamba) for the season. Should XtendiMax with VaporGrip Technology be used in a preplant burndown program, then the combined total per year for all applications must not exceed 88 fl oz per acre (2.0 lb a.e. dicamba).

**There may be additional use restrictions in place for XtendiMax® with VaporGrip® Technology in certain states. Please visit the XtendiMax® State Approvals Map, which provides updated information on applicable state regulations and FIFRA Special Local Need labeling, and states that have approved in-crop applications of XtendiMax® with VaporGrip® Technology in cotton with XtendFlex® Technology.*

Legal Statements

For additional agronomic information, please contact your local seed representative. Developed in collaboration with Technology Development & Agronomy by Bayer Group. **XtendiMax® herbicide with VaporGrip® Technology is part of the Roundup Ready® Xtend Crop System and is a restricted use pesticide.** ALWAYS READ AND FOLLOW DIRECTIONS FOR USE ON PESTICIDE LABELING. It is a violation of federal and state law to use any pesticide product other than in accordance with its labeling. XtendiMax® herbicide with VaporGrip® Technology and products with XtendFlex® Technology may not be approved in all states and may be subject to use restrictions in some states. Check with your local product dealer or representative or U.S. EPA and your state pesticide regulatory agency for the product registration status and additional restrictions in your state. For approved tank-mix products and nozzles visit XtendiMaxApplicationRequirements.com. **Monsanto Company is a member of Excellence Through Stewardship® (ETS).** Monsanto products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Monsanto's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. This product has been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship. **ALWAYS READ AND FOLLOW DIRECTIONS FOR USE ON PESTICIDE LABELING.** IT IS A VIOLATION OF FEDERAL AND STATE LAW to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba, glyphosate or glufosinate are approved for in-crop use with cotton with XtendFlex® Technology. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with cotton with XtendFlex® Technology. **Cotton with XtendFlex® Technology contains genes that confer tolerance to glyphosate, glufosinate and dicamba.** Glyphosate will kill crops that are not tolerant to glyphosate. **Dicamba** will kill crops that are not tolerant to dicamba. **Glufosinate** will kill crops that are not tolerant to glufosinate. Contact your seed brand dealer or refer to the Monsanto Technology Use Guide for recommended weed control programs. **B.I. products** may not yet be registered in all states. Check with your seed brand representative for the registration status in your state.

Performance may vary, from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields. **ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.** Warrant® Herbicide is not registered in all states and may be subject to use restrictions. The distribution, sale, or use of an unregistered pesticide is a violation of federal and/or state law and is strictly prohibited. Check with your local dealer or representative for the product registration status in your state.

Tank mixtures: The applicable labeling for each product must be in the possession of the user at the time of application. Follow applicable use instructions, including application rates, precautions and restrictions of each product used in the tank mixture. Not all tank mix product formulations have been tested for compatibility or performance other than specifically listed by brand name. Always predetermine the compatibility of tank mixtures by mixing small proportional quantities in advance. Bayer, Bayer Cross Design, Bollgard II®, Bollgard®, Respect the Refuge and Cotton Design®, Roundup Ready PLUS®, Roundup Ready®, VaporGrip®, Warrant®, XtendFlex® and XtendiMax® are registered trademarks of Bayer Group. Dual Magnum® is a registered trademark of a Syngenta group company. LibertyLink® and the Water Droplet Design® is a trademark of BASF Corporation. Some of the product(s) discussed herein are restricted use pesticide(s) and may not be registered in all states. The distribution, sale, or use of an unregistered pesticide is a violation of federal and/or state law and is strictly prohibited. Check with your local dealer or product representative for the product registration status in your state. Insect control technology provided by Vip3A is utilized under license from Syngenta Crop Protection AG. All other trademarks are the property of their respective owners. ©2019 Bayer Group. All rights reserved. 1012_S1

