

REGIONAL WEED MANAGEMENT RECOMMENDATIONS FOR THE ROUNDUP READY® XTEND CROP SYSTEM

2018 Arkansas* Weed Management Recommendations Cotton with XtendFlex® Technology



Herbicide Practice	Herbicide Recommendation
Before Planting	
Early Burndown	Roundup PowerMAX® II Herbicide (32 oz) + 2,4-D (16-32oz)
At Planting	
PRE At Planting	Gramoxone® SL 2.0 Herbicide (2-4 pt) + Warrant® Herbicide (3 pt) + labeled preemergence herbicide* according to soil type <i>*(Cotoran®, Caparol®, Direx® or Brake® + Cotoran® herbicides)</i>
POST (After Cotton Emergence)	
POST 1 2-3 leaf cotton	Roundup PowerMAX® II Herbicide (32 oz) + Warrant® Herbicide (3 pt) The addition of Warrant® Herbicide (3 pt) may provide improved residual control of palmer amaranth and certain grass species. This tank-mixture may also cause some visual crop response under some environmental conditions that is usually temporary with no subsequent affect on yield.
POST 2 6-8 leaf cotton	Liberty® Herbicide (32 oz)
LAY-BY HOODED SPRAYER	Direx® Herbicide (1.5 pt) or Valor® Herbicide (2 oz) + Roundup PowerMAX® II Herbicide (32 oz) or MSMA (2 lbs ai)

*Check with your local Monsanto dealer or representative or U.S. EPA and your state pesticide regulatory agency for the product registration status and additional restrictions in your state.

2018 Arkansas* Weed Management Recommendations for Roundup Ready 2 Xtend® Soybeans



Herbicide Practice	Herbicide Recommendation
<p>Where PPO resistant Palmer are present, consider an alternative technology</p> <p>Before Planting</p>	
Early Burndown	Roundup PowerMAX® II Herbicide (32 oz) + 2,4-D (16-32 oz) or Sharpen® (1-2 oz)
<p>At planting to early POST</p>	
PRE At Planting	<p>Roundup PowerMax® II Herbicide (32 oz) or Gramoxone® SL 2.0 Herbicide (2-4 pt) + Warrant® Herbicide (3 pt) + metribuzin* (0.25-0.38 lb ai)</p> <p>*Use metribuzin rate based on soil type and pH</p>
<p>POST (over-the-top)</p>	
POST (18-24 days after PRE application)	<p>Roundup PowerMAX® II Herbicide (32 oz) + Warrant® Ultra Herbicide (50 oz)</p> <p>(POST application of herbicides Blazer®, Cobra®, or Select® can be used to control broadleaf weed or grass escapes)</p>

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Important Notices

- **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 and only for those uses covered by the Certified Applicator's certification.** 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 cotton with XtendFlex® Technology may not be approved in all states and may be subject to use restrictions in some states. Check with your local Monsanto 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

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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 or glyphosate are approved for in-crop use with Roundup Ready 2 Xtend® soybeans. 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 Roundup Ready 2 Xtend® soybeans.

Roundup Ready 2 Xtend® soybeans contains genes that confer tolerance to glyphosate 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 Monsanto dealer or refer to Monsanto's Technology Use Guide for recommended weed control programs.

All technologies and brands referenced may not yet be registered in all states. Check with your Monsanto representative for the registration status in your state.

Roundup Technology® includes Monsanto's glyphosate-based herbicide technologies.

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 IRM, where applicable, grain marketing and all other stewardship practices and pesticide label directions. Warrant® Herbicide and Warrant® Ultra Herbicide are 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 Monsanto dealer or representative for the product registration status in your state. Roundup PowerMAX®, Roundup Ready 2 Xtend®, Roundup Ready PLUS®, Roundup Technology®, VaporGrip®, Warrant®, XtendFlex® and XtendiMax® are registered trademarks of Monsanto Technology LLC. Liberty® and LibertyLink® are registered trademarks of Bayer. Direx® is a registered trademark of E.I. Du Pont de Nemours and Company. Caparol® and Gramoxone® are registered trademarks of a Syngenta group company. Cobra®, Fierce® and Valor® are registered trademarks of Valent U.S.A. 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. All other trademarks are the property of their respective owners. ©2018 Monsanto Company All Rights Reserved.