



PRODUCT DESCRIPTION

Roundup Ready® Flex cotton varieties possess improved reproductive tolerance to Roundup® agricultural herbicides. This technology gives growers the opportunity to make over-the-top

broadcast applications of labeled Roundup agricultural herbicides, as listed below, from crop emergence up to seven (7) days prior to harvest.

ROUNDUP® AGRICULTURAL OVER-THE-TOP HERBICIDE PRODUCTS

Herbicide products sold by Monsanto for use over the top of Roundup Ready Flex cotton for the 2008 crop season include:

- Roundup WeatherMAX
- Roundup Original MAX®

Do not add additional surfactants to these Roundup agricultural herbicides. Other glyphosate products labeled for use in Roundup Ready Flex cotton may require the addition of surfactants or other additives to optimize performance that may increase the potential for crop injury. Monsanto will label and promote only fully tested brands that do not require surfactants and other additives for over-the-top applications.

Should you choose to use another glyphosate herbicide, ensure that it has federally approved label instructions for use over Roundup Ready Flex cotton, and the

product and the use label for Roundup Ready Flex cotton have been approved by your specific state. Contact the product manufacturers, the local retailers, or the local extension agents for confirmation that the products carry EPA and state approved labeling for this use. MONSANTO DOES NOT MAKE ANY REPRESENTATIONS, WARRANTIES OR RECOMMENDATIONS CONCERNING THE USE OF GLYPHOSATE PRODUCTS SUPPLIED BY OTHER COMPANIES WHICH ARE LABELED FOR USE OVER ROUNDUP READY FLEX COTTON. MONSANTO SPECIFICALLY DENIES ALL RESPONSIBILITY AND DISCLAIMS ANY LIABILITY FOR ANY DAMAGE FROM THE USE OF THESE PRODUCTS IN ROUNDUP READY FLEX COTTON. ALL QUESTIONS AND COMPLAINTS CAUSED BY THE USE OF GLYPHOSATE PRODUCTS SUPPLIED BY OTHER COMPANIES SHOULD BE DIRECTED TO THE SUPPLIER OF THE PRODUCT IN QUESTION.

CROP SAFETY OF OVER-THE-TOP GLYPHOSATE APPLICATIONS TO ROUNDUP READY FLEX COTTON

Monsanto has determined that a certain combination of components in glyphosate formulations have the potential to cause leaf injury when applied during later stages of crop growth. Roundup WeatherMAX and Roundup Original MAX are the only Roundup agricultural herbicides labeled and approved for new labeled uses over the top of Roundup Ready Flex cotton. Leaf injury may occur if the products are not

used according to the product label, used at higher than recommended rates, or if overlap of spray occurs in the field. *Growers should confirm that any glyphosate formulation to be used on Roundup Ready Flex cotton has been labeled for Roundup Ready Flex cotton and also that it has been tested to demonstrate crop safety.*

WEED RESISTANCE MANAGEMENT GUIDELINES

Follow the guidelines below to minimize the risk of developing weed resistance in a Roundup Ready Flex cotton system:

- Scout fields before and after each burndown and in-crop application.
- Start clean with a burndown herbicide program or tillage.
- Use the right herbicide product at the right rate and right time.
- Add soil residual herbicide(s) and cultural practices as part of a Roundup Ready Flex cotton weed control program.
- In-crop, apply Roundup WeatherMAX at a minimum of 22 oz/A when weeds are small.
- Tank-mix other herbicides with Roundup WeatherMAX if necessary for postemergence weed control.
- Should repeated non-performance occur, report to Monsanto or your local retailer.
- Clean equipment before moving from field to field to minimize the spread of weed seed (as well as nematodes, insects, and other cotton pests).

Roundup Ready® Flex Cotton

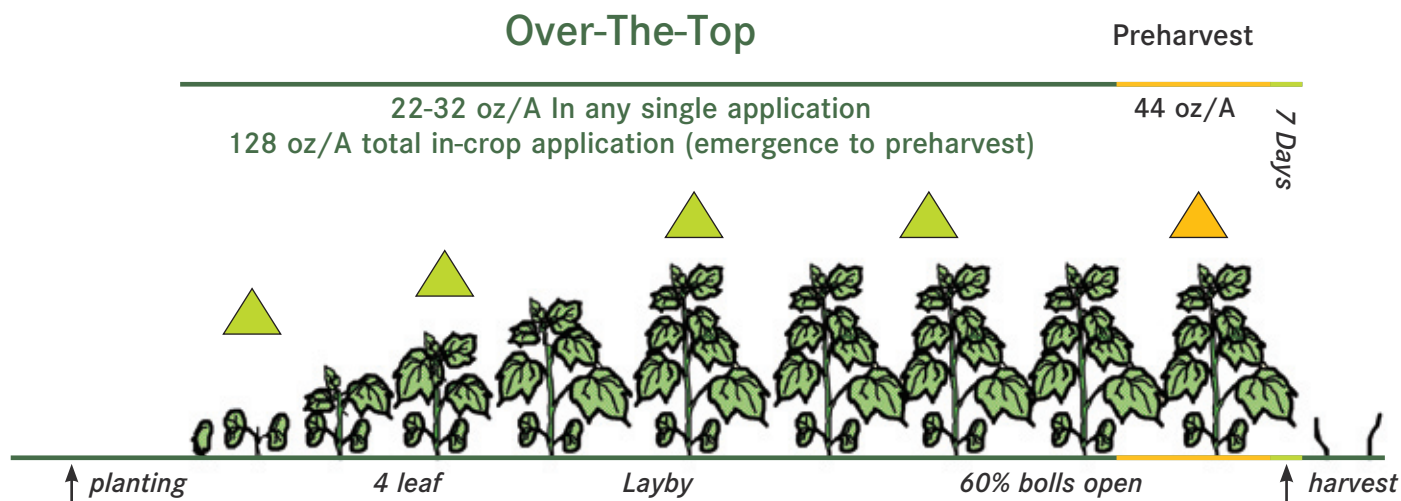


IN-CROP APPLICATION OF ROUNDUP WEATHERMAX® AND ROUNDUP ORIGINAL MAX®

- May be applied over the top and/or in-crop, from crop emergence up to 7 days prior to harvest.
- A maximum rate of 32 oz/A per application may be applied using ground application equipment while the maximum is 22 oz/A per application by air.
- There are no growth or timing restrictions for sequential applications.
- Four (4) quarts/A is the total in-crop volume allowed from emergence to 60 percent open bolls.
- A maximum total volume of 44 oz/A may be applied between layby and 60 percent open bolls.
- Post-directed equipment may be used to achieve more thorough spray coverage of weeds or if herbicides not labeled for over-the-top application will be tank-mixed with Roundup WeatherMAX® or Roundup Original MAX®.

PREHARVEST APPLICATIONS

- Up to 44 oz/A may be applied after cotton reaches 60 percent open bolls and before harvest, if needed.
- Applications must be made at least 7 days prior to harvest.





WEED CONTROL RECOMMENDATIONS

Agronomic Principles in Cotton

Weed control in cotton is essential to maximize both fiber yield and quality potential. Cotton is very sensitive to early-season weed competition which can result in unacceptable stands and/or reduced yield potential.

The Roundup Ready® Flex cotton system, with improved reproductive tolerance to Roundup® agricultural herbicides, provides growers with the right tools to control weeds.

PROGRAM	INSTRUCTIONS	ADDITIONAL INFORMATION
Preplant Burndown	<p>Always start clean by planting into a weed-free field using either tillage or a burndown application.</p> <p>In no-till and reduced-till systems, apply a preplant burndown application of Roundup WeatherMAX* at 22 to 44 oz/A in a tank-mix with dicamba or 2,4-D.</p> <p>See the dicamba and 2,4-D product label for rates and time intervals required between application and cotton planting. State restrictions may apply.</p>	<p>Early season weed competition can result in unacceptable stands and/or reduced yield potential.</p> <p>This tank-mix is recommended for control and management of glyphosate-resistant horseweed (marestail, <i>Conyza sp.</i>) or other tough-to-control weeds.</p> <p>Burndown application should be made far enough in advance of planting to control existing weeds.</p>
Residual Herbicides	<p>Apply residual herbicide(s) as part of a Roundup Ready Flex cotton weed control program. Use the recommended label rate and timing of the residual herbicide applied. Refer to individual product labels for list of residual herbicides that may be used.</p>	<p>The residual herbicide(s) may be applied as either a preemergence (including preplant incorporated), postemergence, and/or layby application as allowed on the label of the specific product being used.</p>
In-Crop Weed Control	<p>Target the first application of Roundup WeatherMAX on 1-2 leaf cotton when weeds are small.</p> <p>Apply a minimum of 22 oz/A of Roundup WeatherMAX in-crop.</p> <p>The need for sequential applications of Roundup WeatherMAX will depend upon the occurrence of subsequent weed flushes.</p> <p>Refer to the "Annual Weeds Rate Table" in the Roundup WeatherMAX label booklet for rate recommendations for specific annual weeds.</p>	<p>Early-season weed competition can reduce yield potential in cotton.</p> <p>Select timing of application based on the most difficult to control weed species in your field.</p> <p>Post-direct or hooded sprayers can be used to achieve more thorough spray coverage on weeds.</p>
Preharvest Over-The-Top Applications	<p>Before harvest and after cotton reaches 60 percent open bolls, if needed, apply up to 44 oz/A of Roundup WeatherMAX.</p> <p>This treatment is effective in controlling late-season perennial weeds.</p>	<p>Applications must be made at least 7 days prior to harvest.</p> <p>Roundup agricultural herbicides are not effective for preharvest cotton regrowth in Roundup Ready Flex cotton.</p>

* The maximum volume of Roundup WeatherMAX and Roundup Original MAX that may be used in a single season is 5.3 quarts per acre.



RECOMMENDATIONS FOR MANAGING GLYPHOSATE-RESISTANT WEEDS IN ROUNDUP READY FLEX COTTON

WEEDS	INSTRUCTIONS AND USE RATES
<p>Glyphosate-Resistant Marestalk</p>	<p>Start clean with a burndown herbicide program or tillage.</p> <ul style="list-style-type: none"> -Tank-mix Roundup® agricultural herbicides with dicamba or 2,4-D (consult label for plant back timing). <p>If you have dense stands of marestalk, use a preplant residual herbicide at the recommended rate and timing, such as diuron (Direx®) or flumioxazin (Valor®).</p> <p>Use Roundup WeatherMAX® in-crop, as needed, at a minimum of 22 oz/A to control other weeds.</p> <p>In-crop, if applying post-directed to glyphosate-resistant marestalk, Roundup WeatherMAX can be tank-mixed with other herbicides, such as diuron or MSMA.</p>
<p>Glyphosate-Resistant Palmer Amaranth</p>	<p>Start clean with a burndown herbicide program or tillage.</p> <p>Apply a preemergence residual herbicide labeled for control of <i>Palmer amaranth</i> such as pendimethalin (Prowl®) plus fluometuron or fomesafen (Reflex®).</p> <p>In-crop, tank-mix Roundup WeatherMAX at 22 oz/A with metolachlor before <i>Palmer amaranth</i> emerges.</p> <p>Use Roundup WeatherMAX in-crop, as needed, at a minimum of 22 oz/A to control other weeds.</p> <p>A post-directed application of Roundup WeatherMAX tank-mixed with MSMA and a residual such as diuron (Direx) or flumioxazin (Valor) should be made to control small <i>Palmer amaranth</i> and prevent additional flushes.</p>
<p>In certain areas populations of common ragweed, giant ragweed and waterhemp are known to be resistant to glyphosate. For control recommendations for resistant biotypes of these weeds, refer to www.weedresistancemanagement.com or call 1-800-ROUNDUP. When approved, supplemental labeling for specific herbicide products can also be viewed on www.cdms.net or www.greenbook.net.</p>	