



PRODUCT DESCRIPTION

Roundup Ready Sugarbeet varieties have in-plant tolerance to Roundup® agricultural herbicides, enabling growers to apply labeled Roundup agricultural

herbicides from planting through 30 days prior to harvest for unsurpassed weed control, excellent crop safety, and preservation of yield potential.

ROUNDUP AGRICULTURAL OVER-THE-TOP HERBICIDE PRODUCTS

Herbicide products sold by Monsanto for use over the top of Roundup Ready Sugarbeets for the 2008 crop season are as follows:

- Roundup WeatherMAX
- Roundup Original MAX®
- Other labeled Roundup branded agricultural herbicides

Certain Roundup agricultural herbicides referred to above may not be labeled for this application in your specific state. Please contact the manufacturer of this product, the local retailer, or the local extension agent for confirmation that this is an approved application.

For complete information about the use of Roundup agricultural herbicides over the top of Roundup Ready Sugarbeets, refer to the appropriate Monsanto product label booklet, or to supplemental labeling or fact sheets published separately by Monsanto. To learn more about applicable supplemental labels or fact sheets, call 1-800-ROUNDUP.

Tank-mixtures of Roundup agricultural herbicides with insecticides, fungicides, micronutrients or foliar fertilizers are not recommended as they may result in reduced weed control, crop injury, reduced pest control or antagonism. Refer to the Roundup agricultural herbicide product label, supplemental labeling, or fact sheets published separately by Monsanto for tank-mix recommendations.

Sugarbeets are very sensitive to herbicide injury from phenoxy and other classes of herbicides. It is important to follow recommendations found on the herbicide product labels for cleaning spray tanks prior to adding Roundup agricultural herbicides to them.

You may use another glyphosate herbicide, but only if it has federally approved label instructions for use over Roundup Ready Sugarbeets, and the product and the use label for Roundup Ready Sugarbeets 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 THAT ARE LABELED FOR USE OVER ROUNDUP READY SUGARBEETS. MONSANTO SPECIFICALLY DENIES ALL RESPONSIBILITY AND DISCLAIMS ANY LIABILITY FOR ANY DAMAGE FROM THE USE OF THESE PRODUCTS IN ROUNDUP READY SUGARBEETS. 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.

MANAGEMENT PRACTICES

Sugarbeets are extremely sensitive to weed competition for light, nutrients and soil moisture. Research on sugarbeet weed control suggests that sugarbeets need to be kept weed-free for the first eight weeks of growth to protect yield potential. Therefore, weeds must be controlled when they are small and before they compete with Roundup Ready Sugarbeets, that is 2" to 4" in height, to preserve sugarbeet yield potential. *More than one in-crop herbicide application will be required* to control weed infestations to protect yield potential as Roundup agricultural herbicides have no soil residual activity. Bolting sugarbeets must be rogued or topped in Roundup Ready Sugarbeet fields.

Roundup Ready Sugarbeet varieties have excellent tolerance to over-the-top applications of labeled Roundup agricultural herbicides. A postemergence weed control program using Roundup WeatherMAX or Roundup Original MAX will provide excellent weed control in most situations. A residual herbicide labeled for use in sugarbeet may also be applied preemergence, preplant, or postemergence in Roundup Ready Sugarbeets. Contact a Monsanto Representative, local crop advisor, or extension specialist to determine the best option for your situation.

Roundup Ready® Sugarbeets



WEED RESISTANCE MANAGEMENT FOR ROUNDUP READY SUGARBEETS

Follow the guidelines below to minimize the risk of developing glyphosate-resistant weed populations in a Roundup Ready® Sugarbeet system.

- Start clean with tillage and follow up with a burndown herbicide, such as Roundup® agricultural herbicides, if needed prior to planting.
- Early season weed control is critical to protect sugarbeet yield potential. Apply the first in-crop application of Roundup WeatherMAX® at a minimum of 22 oz/acre while weeds are less than 2" in height.
- Follow with additional postemergence in-crop application of Roundup WeatherMAX at a minimum of 22 oz/acre for additional weed flushes before they exceed 4" in height.
- Always add spray grade ammonium sulfate at a rate of 17 lbs/100 gallons of spray solution with Roundup agricultural herbicides to maximize product performance.
- Use mechanical weed control/cultivation and/or residual herbicides where appropriate in your Roundup Ready Sugarbeets.
- Use additional herbicide modes of action/residual herbicides and/or mechanical weed control in other Roundup Ready crops you rotate with Roundup Ready Sugarbeets.
- Report repeated non-performance of Roundup agricultural herbicides to Monsanto or your local retailer.

AGRONOMIC PRINCIPLES IN SUGARBEETS

Sugarbeet yield is very sensitive to early season weed competition. It is important to select the appropriate herbicide product, application rate and timing to minimize weed competition to protect yields. The Roundup Ready Sugarbeet system provides a mechanism to control weeds at planting and once Roundup Ready Sugarbeets emerge. Failure to control weeds with the right rate, at the right time, and with

the right product, can lead to increased weed competition, weed escapes, and the potential for decreased yields. Tank-mixtures of Roundup agricultural herbicides with fungicides, insecticides, micronutrients or foliar fertilizers may result in crop injury and reduced pest control or antagonism and are not recommended.

RECOMMENDATIONS FOR MANAGING GLYPHOSATE-RESISTANT WEEDS IN ROUNDUP READY SUGARBEETS

In certain areas, populations of ryegrass, maretail, 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.



WEED CONTROL RECOMMENDATIONS

PROGRAM	INSTRUCTIONS AND USE RATES	ADDITIONAL INFORMATION
Preplant Burndown	<p>After preplant tillage or bedding operations have been completed, a preplant burndown application of Roundup WeatherMAX at 22 to 44 oz/acre may be applied to control weeds that have germinated after tillage and prior to planting.</p> <p>See the label for appropriate rates by weed species and weed size.</p>	<p>Always utilize tillage to start with a weed-free field.</p>
Over-The-Top Applications up to eight-leaf Roundup Ready Sugarbeet	<p>Up to two applications of Roundup agricultural herbicides may be made prior to the 8-leaf stage of Roundup Ready Sugarbeets.</p> <p>The first application of 22 to 32 oz/acre of Roundup WeatherMAX should be made when weeds are less than 2" in height to protect yield potential.</p> <p>Make an additional application of 22 to 32 oz/acre of Roundup WeatherMAX before weeds exceed 4" in height.</p> <p>Maximum in-crop Roundup WeatherMAX prior to 8-leaf stage <i>must not exceed</i> 56 oz/acre.</p>	<p>Sugarbeets are sensitive to weed competition and can lose yield rapidly if weeds are not controlled early. More than one in-crop Roundup WeatherMAX application will be required to control weed infestations to protect yield potential as Roundup agricultural herbicides have no soil residual activity.</p> <p>Always add ammonium sulfate at a rate of 17 lbs/100 gallons of spray solution with Roundup agricultural herbicides to maximize product performance. Tank-mixtures of Roundup agricultural herbicides with fungicides, insecticides, micronutrients or foliar fertilizers are not recommended.</p> <p>Sequential applications should be at least 7 days apart.</p>
Over-The-Top Applications to greater than eight-leaf Roundup Ready Sugarbeets	<p>Up to two additional applications of 22 oz/acre of Roundup WeatherMAX can be made after the eight-leaf stage up to 30 days prior to harvest.</p> <p>Maximum in-crop Roundup WeatherMAX from 8-leaf stage up until 30 days prior to harvest must not exceed 44 oz/acre.</p>	<p>Always add ammonium sulfate at a rate of 17 lbs/100 gallons of spray solution with Roundup agricultural herbicides to maximize product performance. Tank-mixtures of Roundup agricultural herbicides with fungicides, insecticides, micronutrients or foliar fertilizers are not recommended.</p> <p>Sequential applications should be at least 7 days apart.</p>
Maximum Use Rates	<p>In-Crop:</p> <ul style="list-style-type: none"> • Two applications of Roundup WeatherMAX prior to the 8-leaf stage of Roundup Ready Sugarbeets <ul style="list-style-type: none"> - 32 oz/acre per single application up to the 8-leaf stage. - Combined maximum of 56 oz/acre in-crop prior to the 8-leaf stage • Two applications of Roundup WeatherMAX after the 8-leaf stage up to 30 days prior to harvest <ul style="list-style-type: none"> - 22 oz/acre per single application after the 8-leaf stage. - Combined maximum of 44 oz/acre in-crop after the 8-leaf stage until 30 days prior to harvest 	<p>Total Per Year:</p> <p>The combined total per year for all Roundup WeatherMAX applications including pre-plant must not exceed 5.3 qt/acre.</p> <p>Total in-crop application must not exceed 3 qt/acre.</p> <p>Always add ammonium sulfate at a rate of 17 lbs/100 gallons of spray solution with Roundup agricultural herbicides to maximize product performance. Tank-mixtures of Roundup agricultural herbicides with fungicides, insecticides, micronutrients or foliar fertilizers are not recommended.</p>

*If using another Roundup agricultural herbicide, you must refer to the label booklet or separately published Roundup Ready Sugarbeets supplemental label for that brand to determine appropriate use rates. If using Roundup Original MAX®, application rates are the same as for Roundup WeatherMAX.