

## Pre-plant and Burndown Control of Marestalk in Southern Illinois

Currently in Southern Illinois, the marestalk populations are a combination of glyphosate-resistant and glyphosate-sensitive plants. This makes early application and the use of tank mixes with different modes of action critical to achieve marestalk control. Understanding the growth pattern of marestalk and being familiar with herbicide programs can help provide better marestalk control.

Due to the biology of marestalk, it can be very difficult to manage. Below are some facts about marestalk and its control that can aid in making management decisions.



- Marestalk height in the spring will vary depending upon growth during the winter months.
- Fall applied fields still need to be scouted for spring emergence of marestalk.
- Marestalk is easiest to control in the rosette stage, or when it is small. Herbicide performance for marestalk larger than 6 inches can be very erratic.
- In-crop control of marestalk is typically more difficult than burndown.
- Burndown applications of Roundup® agricultural herbicides plus 2,4-D can be very effective in controlling marestalk. On occasion, marestalk can attain excessive plant height before a burndown application can be made. In those fields, tillage can be an effective control measure.
- If FirstRate is not available, consider substituting it with Classic\*\* at 3/4 oz/acre.
- "The use of atrazine in corn for residual and burndown control of marestalk has proven to be effective." Dr. Bryan Young, Professor of Weed Science, Southern Illinois University.

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### PRE-PLANT BURNDOWN RECOMMENDATIONS FOR MARESTAIL CONTROL

#### SOYBEAN:

**FOR MARESTAIL 6 INCHES OR LESS IN HEIGHT:**

1) Roundup PowerMAX® (22 oz./acre) + 2,4-D\* (1 to 2 pts./acre) + FirstRate® (0.3 oz./acre)

— OR —

2) Roundup PowerMAX® (22 oz./acre) + 2,4-D\* (1 to 2 pts./acre)

— OR —

3) Roundup PowerMAX® (22 oz./acre) + FirstRate® (0.3 oz./acre)

**FOR MARESTAIL 6 TO 18 INCHES IN HEIGHT:**

1) Roundup PowerMAX® (44 oz./acre) + 2,4-D\* (1 to 2 pts./acre) + FirstRate® (0.3 oz./acre)

— OR —

2) Roundup PowerMAX® (44 oz./acre) + 2,4-D\* (1 to 2 pts./acre)

— OR —

3) Roundup PowerMAX® (44 oz./acre) + FirstRate® (0.3 oz./acre)

#### CORN:

**FOR MARESTAIL 6 INCHES OR LESS IN HEIGHT:**

1) Roundup PowerMAX® (22 oz./acre) + 2,4-D\* (1 to 2 pts./acre)

*These Roundup PowerMAX rates apply when water carrier volumes are 16 to 40 gallons per acre.*

\*Refer to the respective product labels of 2,4-D ester for applicable replant interval.

\*\* Refer to the Classic label for details regarding various use rates and restrictions based on soil types and other parameters.

Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible. ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. 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. Monsanto has not tested all tank mix product formulations 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. Technology Development by Monsanto and Design (SM) is a servicemark of Monsanto Technology LLC. Roundup PowerMAX® is a registered trademark of Monsanto Technology LLC. All other trademarks are the property of their respective owners. ©2010 Monsanto Company.