

# Weed Science News

## EVENTS CALENDAR

Beltwide Cotton Conference  
January 3-6, 2006  
San Antonio, TX

Southern Weed Science Soc.  
January 23-26, 2006  
San Antonio, TX

Weed Science Soc. of America  
February 13-16, 2006  
New York, NY

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## GREETINGS

Welcome to the first issue of what will hopefully become a monthly newsletter to keep you informed about current weed management issues. For those of you whom I have not had the pleasure to meet, my name is Chris Main. I was hired in May of this year as a weed scientist for Clemson University (70% extension, 30% research) with responsibilities for weed management in corn, cotton, peanut, small grains, soybean, tobacco, and wild-life plots. My office is located at the Pee Dee Research and Education Center (Florence) where the majority of my research will be conducted.

This newsletter will help facilitate the extension of information from my research program to county extension agents, certified crop advisors, and agribusiness with the goal providing timely and accurate information to South Carolina producers. One new item to help in this endeavor is an ever expanding database of information located at <http://www.clemson.edu/weeds>. This web site houses extension publications, research results, links to helpful sites, and information about weed management in general. Please take some time to explore the weed science web site and provide feedback on what can make it a better site for everyone.

Thank you for taking time to read this letter. I look forward to meeting each of you this winter at different meetings through out the state.

Best wishes,



Chris Main

## ROUNDUP (GLYPHOSATE) RESISTANT PALMER PIGWEED

Palmer pigweed that is not killed by normal application rates of glyphosate has been found in Georgia, North Carolina, and Tennessee. I have not located any suspect problems in South Carolina this year. There are many 'escapes' of Palmer pigweed in the state, but most I would attribute to environmental conditions (abundant rainfall, plants too large at application, etc.). This troublesome weed will be the focus of many winter meetings. The introduction of Roundup Ready Flex cotton in 2006 will increase selection pressure for weeds which glyphosate has trouble controlling. We need to be proactive in 2006 to insure that glyphosate-resistant Palmer pigweed does not become an issue in South Carolina.

### **Additional information:**

<http://southeastfarmpress.com/news/072605-Resistant-pigweed/index.html>

<http://www.utextension.utk.edu/fieldCrops/weeds/Tolerant%20Palmer%20Update.htm>

The use of trade names in this publication is intended for the purpose of clarity and information. Inclusion of a trade name does not imply approval to the exclusion of other products, which may be of similar composition. Clemson University does not guarantee or warranty the products named.

C.L. Main, [cmain@clemson.edu](mailto:cmain@clemson.edu), Assistant Professor, Department of Entomology, Soils and Plant Sciences, Clemson University, Pee Dee Research and Education Center, 2200 Pocket Road, Florence, SC 29506; Clemson University Cooperative Extension Service.

## ROUNDUP READY® FLEX COTTON

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Currently available glyphosate-resistant cotton (Roundup Ready®, transformation event Coker 312-1445, henceforth referred to as RR) is only resistant to glyphosate during vegetative growth. Glyphosate is registered for application from emergence until the development of the fourth-leaf and thereafter must be applied directed as to avoid cotton foliage. Previous research demonstrated that topical or inaccurate directed applications of glyphosate after the fourth-leaf stage could result in yield loss which was later elucidated as resulting from morphological changes in reproductive structures and pollen of cotton. Registration of a new glyphosate-resistant cotton with extended-resistance during reproductive growth (Roundup Ready® Flex Cotton, transformation event no. MON88913, Monsanto Co, henceforth referred to as RRF), allows for topical application of glyphosate from crop emergence until seven days prior to harvest. Research conducted at nine locations across the U.S. cotton belt found that RRF cotton yielded higher than RR cotton when treated with glyphosate four times at the 3-, 6-, 10-, and 14-leaf stage and that fruit distribution and weight were similar regardless of glyphosate treatment.

Commercial release of RRF cotton varieties provide producers with unmatched flexibility for weed management options. The Flex cotton system allows for glyphosate to be applied from cotton emergence until seven days prior to harvest. From crop emergence until 60% open bolls, up to 4.0 quarts of Roundup WeatherMax may be applied. This equates to almost 6 applications of 22 fluid ounces per acre. An additional 44 fluid ounces may be applied after 60% open bolls until 7 days prior to harvest. The Flex system also allows for the addition of insecticides to the herbicide tank mix providing one-pass pest management. RRF cotton seed should be available in limited supply for the 2006 growing season.

## IN-SERVICE TRAINING FOR 2006

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In-service training in weed management will be offered in the winter of 2006. The exact dates are not yet set, but expect dates during the second or third week of February. Training will be offered at both the Pee Dee and Edisto Research and Education Centers during different weeks to facilitate as much participation as possible.

## INTERACTIVE WEED ID DVD

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The Southern Weed Science Society is proud to offer the *Interactive Encyclopedia of North American Weeds, Version 3.0*. Four years of development have produced an all new high-resolution, comprehensive teaching and reference software program on weed, crop, and plant identification. The Windows DVD-ROM contains interactive tutorials on plant identification, animations, hundreds of custom illustrations, and over 2,400 photographs. Upgraded to 1024 x 768 XGA resolution, the program has been completely rebuilt with new high resolution, full color photographs and illustrations. Now covering 447 weed and crop species with complete descriptions, distribution maps for the continental United States (including Alaska) and Canada, habitats, and descriptions for 67 plant families. There are illustrations and *World of Weeds* history articles on many of the weeds. A unique graphical interactive key to all the weeds in the program is now included. An illustrated glossary of 565 botanical terms is a program in itself! The nearly three hours of professionally narrated interactive lessons on the principles of plant taxonomy and morphology make this a comprehensive resource for everyone interested in plants. An excellent resource for farmers, ranchers, gardeners, horticulturalists, groundskeepers, botanists, and plant lovers everywhere!

To order use the following link:

<http://www.thundersnow.com/pdffdocs/pamphlet30swss.pdf>

### CONTACT INFORMATION:

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Christopher L. Main Ph.D.  
 Assistant Professor  
 Extension Weed Management Specialist  
 Clemson University  
 Pee Dee Research and Education Center  
 2200 Pocket Road  
 Florence, SC 29506-9706  
 843.662.3526 x224 phone  
 843.661.5676 fax  
[cmain@clemson.edu](mailto:cmain@clemson.edu)