University of Minnesota Southwest Research and Outreach Center

Pest Management Field Day

Tuesday, July 7, 2009

Pest Management Field Day Schedule

- **8:30 – 9:00** Registration, purchase tickets for lunch. Pest Management Field Day is free and open to the public. A fee will be charged for lunch. Continuing education units will be available for certified crop advisors.

9:00 – 12:00 Field Tours. Field Day attendees will be split into two groups. There will be a Weed Management stop and an Insect Management stop on the field tour. The last stop on the tour will be an Integrated Pest Management stop.

- **9:10 – 10:10 Group 1 – Weed Management**

"Issues in Corn and Soybean Weed Management" – Professor and Extension Weed Scientist Dr. Jeff Gunsolus
Environmental factors, weed species shifts, timing of weed control practices, and new crop, herbicide and application technologies are influencing corn and soybean weed management practices. Come and see some of the research addressing these issues plus discussions on current management issues such as volunteer corn control, herbicide and insecticide tank mix performance, and any herbicide nonperformance and crop injury issues.

"The Effect of Nozzle Type and Application Volume for Annual Weed Control in Liberty-link Soybeans with Glufosinate" – Regional Extension Educator Dave Nicolai
This study will be conducted to evaluate Ignite herbicide in Liberty-link soybeans weed control comparing a conventional nozzle, one chamber type nozzle, and two low-drift air induction nozzles designed to reduce drift while maintaining adequate weed control at two different water volume rates. Liberty-link soybeans offer a new unique herbicide weed control option for soybeans which utilizes a different mode of action than is used by glyphosate herbicides. Recently growers have been encouraged to consider the use of new drift-reduction nozzles when applying glyphosate herbicide. The purpose of this research is to determine if the use of these drift-reduction nozzles will maintain adequate weed control when used with glufosinate-Ignite herbicide (contact action).

Group 2 – Insect Management

"A Comparison of Various Aphid & Disease Management Practices in Soybeans" – Assistant Professor and Extension Entomologist Dr. Ian MacRae
There has been increasing pressure to apply insecticide and tank mixed pesticides at lower thresholds based on claims of increased yield benefits. This presentation will review a multiple location trial that compared the efficacy, yield benefits and economic contribution of various management practices for soybean aphids and diseases.

"Can we predict aphid populations? Exploring factors that influence early and late season aphid populations" – IPM Specialist Bruce Potter
Knowing which fields to focus on first can help improve scouting efficiency and prevent burnout. Knowing when it's safe to walk away from a field late in the season is also helpful. We will discuss past and ongoing research looking at factors that might influence early and late season aphid populations.

- **10:15 – 11:15 Group 1 – Insect Management**
  Group 2 – Weed Management

- **11:20 – Noon Group 1 and Group 2 – Integrated Pest Management—**Dr. Jeff Gunsolus, Dr. Ian MacRae, Bruce Potter, Dave Nicolai, and Liz Stahl
  The final session on integrated pest management will bring together the weed and insect experts. This session will include information and a discussion/answers period on integrated weed and insect control for corn and soybean in southwest Minnesota.

- **12:00—Lunch (fee).**

2009 Upcoming Events

Thursday, July 23—NCIS Hail School
Tues, Aug 4-Thur, Aug 6—University on the Prairie
Tuesday, August 11—Strip Till Field Day
Thursday, August 20—Yield Day
Tuesday, August 25—Ag Lender's Day
Wed. and Thurs., Sept 23-24—Elementary Field Days
Sunday, Sept. 13—SWROC's 50th Anniversary Celebration

Please visit the SWROC website for the most current events and dates. http://swroc.cfans.umn.edu

UNIVERSITY OF MINNESOTA
Driven to Discover℠

Contact Information:
University of Minnesota
Southwest Research &
Outreach Center
23669 130th Street
Lamberton, MN 56152
507-752-7372 (Phone)
507-752-5097 (Fax)
http://swroc.cfans.umn.edu

The Southwest Research and Outreach Center is located on State Highway 330, just off State Highway 14 between Lamberton and Revere in southwest Minnesota.

Southwest Research & Outreach Center
University of Minnesota
23669 130th Street
Lamberton, Minnesota 56152

Non-Profit Organization
U.S. Postage Paid
Lamberton, MN 56152
Permit No. 40

Pest Management Field Day at the Southwest Research and Outreach Center
Tuesday July 7, 2009

Lamberton, MN. Understand, examine, and discuss the latest pest control issues and management strategies at the University of Minnesota Southwest Research and Outreach Center's (SWROC) Pest Management Field Day on Tuesday, July 7, 2009.

Pest Management Field Day is a new public event highlighting current University of Minnesota research in pest management that is specific to Southwestern Minnesota. Leading experts from the University will be on hand to present information and answer questions.

This event will include a field tour followed by a question and answer session. Topics will be:

- Jeff Gunsolus, U of MN Extension Weed Specialist will present ***Issues in Corn and Soybean Weed Management*** -- Environmental factors, weed species shifts, timing of weed control practices, and new crop, herbicide and application technologies are influencing corn and soybean weed management practices. Come and see some of the research addressing these issues, and participate in a discussion on current management topics such as: volunteer corn control, herbicide and insecticide tank mix performance, herbicide nonperformance, and crop injury issues
- Ian MacRae, U of MN Northwest Research and Outreach Center Professor of Entomology will discuss ***A Comparison of Various Aphid & Disease Management Practices in Soybeans*** -- There has been increasing pressure to apply insecticide and tank mixed pesticides at lower thresholds based on claims of increased yield benefits. This presentation will review a multiple location trial that compared the efficacy, yield benefits, and economic contribution of various management practices for soybean aphids and diseases.
- Dave Nicolai, U of MN Regional Extension Educator will present on the results of his study: ***The Effect of Nozzle Type and Application Volume for Annual Weed Control in Liberty-Link Soybeans With Glufosinate*** -- This research evaluates Ignite herbicide in Liberty-link soybean weed control comparing a conventional nozzle, one chamber type nozzle, and two low-drift air induction nozzles designed to reduce drift while maintaining adequate weed control at two different water volume rates. The purpose of this research is to determine if the use of these drift-reduction nozzles will maintain adequate weed control when used with glufosinate-Ignite herbicide.
- Bruce Potter, U of MN SWROC/Extension Integrated Pest Management Specialist will speak on: ***Can we predict aphid populations? Exploring factors that influence early and late season aphid populations*** -- Knowing which fields to focus on first can help improve scouting efficiency and prevent burnout. Knowing when it's safe to walk away from a field late in the season is also helpful. We will discuss past and current research looking at the factors that might influence early and late season aphid populations.

The field tour will leave at 9:00am sharp and run until 12:00 pm. Free refreshments will be available in the morning. Lunch will be available for a fee following the tour.

This event is free and open to the public. Pre-registration is not required. Continuing education units for certified crop advisers will be provided. The Pest Management Field Day will be followed by a Yield Management Field Day at the SWROC on Thursday August 20, 2009.

For further information on the Pest Management Field Tour, please visit the SWROC's website at http://swroc.cfans.umn.edu or call the SWROC at 507-752-7372. The University of Minnesota Southwest Research and Outreach Center and the University of Minnesota Extension sponsor the Pest Management Field Tour.