

Western Regional IPM Grants Research/Extension Accomplishments Report

INSTRUCTIONS: PLEASE PROVIDE ONLY THE ESSENTIAL COMPONENTS OF ACCOMPLISHMENT WHICH ARE:

1. A CLEAR IDENTIFICATION OF THE PROBLEM/ISSUE ADDRESSED BY THE RESEARCH/EXTENSION.
2. A CONCISE EXPLANATION OF HOW THE RESEARCH/EXTENSION ACHIEVEMENT CONTRIBUTED TO THE SOLUTION OF THE PROBLEM/ISSUE BEING RESEARCHED.
3. THE IDENTIFICATION OF OTHER BENEFITS RESULTING FROM THE RESEARCH/EXTENSION, EVEN IF UNPLANNED.
4. PLEASE ATTACH A SUMMARY OF THE PAST YEARS PROGRESS, ONE PAGE MINIMUM.

CONTACT: __Ned Tisserat

PROJECT NUMBER: _____

TELEPHONE: _970-491-6527

PROJECT TITLE: An Electronic, Multi-Entry Key for Diagnosing Arthropod, Disease, and Abiotic Problems of Small Grains

PRINCIPAL INVESTIGATOR Ned Tisserat

INSTITUTIONAL ADDRESS: Colorado State University

CO-PIs or TEAM MEMBERS: William Lanier (Montana State University) and Ronda Koski (Colorado State University)

THE PROBLEM, ISSUE, OR REASON FOR CONDUCTING THE RESEARCH/EXTENSION:

The first step in a successful integrated pest management (IPM) program is rapid and accurate identification of the cause of a plant problem. A wrong diagnosis can result in pesticide misapplication whereas a delayed diagnosis may allow pests to develop to populations that are not easily controlled by IPM practices and may required multiple pesticide applications. For many crops information about symptoms and other aspects associated with the various causes of crop disorders are discipline-based and usually published in separate publications. Growers, crop advisors, extension personnel and others involved in crop production not only find it difficult to track down relevant information but are often faced with a situation where the information has not been integrated and, therefore, cannot be efficiently and effectively used for diagnostic purposes. Thus producers and advisors need easily accessible diagnostic resources that are linked to current IPM recommendations. Our goal is to provide growers, crop advisors, extension agents, diagnosticians and others associated with crop production with multi-entry, multi-media, commodity-based electronic keys to aid in the diagnosis and management of crop problems.

THE SINGLE MOST IMPORTANT ACCOMPLISHMENT OR BENEFIT RESULTING FROM THIS RESEARCH/EXTENSION:

We have posted a β version of the wheat pest diagnostic key on the High Plains Integrated Pest Management website http://highplainsipm.org/wheat_pest_key/wheat_pest_key.html The key will be finalized and released for distribution in 2008.

ADDITIONAL BENEFITS, SUCH AS:

SOCIAL BENEFITS -

ECONOMIC and ENVIRONMENTAL BENEFITS -

We believe that if a producer is provided with an integrated, easily accessed diagnostic tool that is directly linked to the most up-to-date IPM recommendations, they are more likely to adopt and implement those management practices.

ENVIRONMENTAL BENEFITS -

OTHER -

PLEASE SUBMIT A HIGH RESOLUTION DIGITAL IMAGE REPRESENTATIVE OF YOUR RESEARCH/EXTENSION PROJECT THAT WE CAN USE TO HIGHLIGHT YOUR PROJECT!

Perhaps a screenshot of the introductory page of the Key would be appropriate. Is this what is needed?

When you have completed this form, return to both:

THIS FORM WAS COMPLETED BY:

Dr. Frank Zalom
Department of Entomology
One Shields Avenue
University of California
Davis, CA 95616
fgzalom@ucdavis.edu

Ned Tisserat Professor
(Name and Title)

and

Rick Melnicoe
Western IPM Center
Department of Environmental Toxicology
One Shields Avenue
University of California
Davis, CA 95616
rsmelnicoe@ucdavis.edu