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What's New in Plant Pathology

Loren Giesler

University of Nebraska-Lincoln, lgiesler1@unl.edu

Tamra A. Jackson-Ziems

University of Nebraska-Lincoln, tjackson3@unl.edu

Casey Schleicher

University of Nebraska-Lincoln

Kevin Korus

University of Nebraska-Lincoln, kkorus@unl.edu

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What's New in Plant Pathology

Loren Giesler, Extension Plant Pathologist
Tamra A. Jackson-Ziems, Extension Plant Pathologist
Casey Schleicher, Extension Technologist
Kevin Korus, Extension Educator

Extension Plant Pathology Team Update

There have been several changes in our team over the last year. Below is a listing of Extension Plant Pathology Team members and their responsibilities.

- Loren Giesler, Extension Specialist – UNL Lincoln Campus. Diseases of soybean and turf and extension team leader.
- Robert Harveson, Extension Specialist – UNL Panhandle Research and Extension Center (Scottsbluff, NE). Diseases of specialty crops, including chickpeas, dry beans, sugar beet, sunflower, etc. (all crops outside of corn, forages, small grains, sorghum and soybean)
- Tamra Jackson-Ziems, Extension Specialist – UNL Lincoln Campus. Diseases of corn and sorghum.
- Kevin Korus, Extension Educator-Plant Pathology - UNL Lincoln Campus. Coordinator of the Plant & Pest Diagnostic Clinic and diseases of trees and backyard fruits and vegetables.
- Bo Liu, Extension Specialist – West Central Research and Extension Center (North Platte, NE). Cropping systems soil microbial communities with an emphasis on Fusarium and Rhizoctonia Diseases.
- Stephen Wegulo, Extension Specialist – UNL Lincoln Campus. Diseases of small grains, forages, and ornamentals.

Plant and Pest Diagnostic Clinic Update

The Plant and Pest Diagnostic Clinic provides plant disease diagnostics as well as insect pest and weed identification. Chemical injury and nutrient deficiencies are assessed by visual identification only. The clinic is not set up to perform tissue analysis for chemical injury or nutrient deficiency. A sample fee restructure will be implemented to accommodate the rising cost of processing samples and to ensure accurate and timely diagnoses. Although the final price adjustment is not set, prices will remain competitive and economical.

Tips for Submitting a Sample

- Be sure to send samples for disease diagnostics and pest identification in a sealable plastic bag.

- Never add water to the bag.
- If the plant is excessively wet, add a dry paper towel.
- Collect fresh samples that are symptomatic.
- Ship samples early in the week (Monday – Wednesday) in a sturdy container.
- Be sure to thoroughly fill out the sample submission form and include it in the shipping container with the sample. The sample submission form can be found at and printed from the following address: <http://pdc.unl.edu/diagnosticclinics/plantandpest>.

Disease Management Products

During the past year, several new products have become available for disease management and some changes have been made to the labels of existing products. The label changes and new products are summarized in Tables 1 and 2, respectively, as well as included in the 2013 Guide for Weed Management in Nebraska with Insecticide and Fungicide Information. In addition, fungicide information has now been included for sugar beet and dry bean.

Table 1. Foliar Fungicide Label Updates

Foliar Fungicide	Crop	Update Description
Domark	Corn	Aerial application changed from 5 gpa to 2 gpa minimum
Domark	Soybean	Chemigation changed from 'Not Allowed' to 'Allowed'
Headline AMP	Corn	Ground application changed from 10 gpa minimum to 15 gpa minimum
Proline	Corn	Supplemental label recently added for new crops, including corn
ProplMax	Corn	Pre-harvest interval (PHI) changed from 36 days to 30 days
Stratego YLD	Wheat	Supplemental label recently added for new crops, including wheat

Table 2. New Products

Foliar Fungicides	Active Ingredient	Fungicide Class	Labeled Crops
Priaxor	Fluxapyroxad + pyraclostrobin	carboxinimide + strobilurin	Barley, Dry Bean, Corn, Oats, Potato, Rye, Soybean, Sugar Beet, Sunflower, Triticale, Wheat and others
Topguard	flutriafol	triazole	Corn, Soybean, Sugar Beet and others
Vertisan	penthiopyrad	carboxamide	Barley, Dry Bean, Corn, Oats, Potato, Rye, Sorghum, Soybean, Sugar Beet, Sunflower, Triticale, Wheat and others.
Seed Treatment Fungicides			
	Active Ingredient	Fungicide Class	Labeled Crops
CruiserMaxx Advanced	fludioxonil + mefenoxam + thiamethoxam	phenylpyrrole + acylalanine + neonicotinoid	Soybean
CruiserMaxx EZ	fludioxonil + mefenoxam + thiamethoxam	phenylpyrrole + acylalanine + neonicotinoid	Soybean
CruiserMaxx Vibrance Cereals	sedaxane + difenoconazole + mefenoxam + thiamethoxam	carboxamide + triazole + acylalanine + neonicotinoid	Barley, Oats, Rye, Triticale, and Wheat
Evergol Energy	prothioconazole + penflufen + metalaxyl	triazole + carboxamide + acylalanine	Alfalfa, Barley, Dry Bean, Soybean, Triticale, Wheat and others
NipsIt! SUITE Cereals OF	clothianidin + metalaxyl + metconazole	neonicotinoid + acylalanine + triazole	Barley, Oats, and Wheat
Vibrance	sedaxane	carboxinimide	Barley, Oats, Rye, Soybean, Triticale, Wheat and others
Vibrance Extreme	sedaxane + difenoconazole + mefenoxam	carboxamide + triazole + acylalanine	Barley, Oats, Rye, Triticale, and Wheat