On-Farm Cropping Trials

2014 Statewide Small Grains Pest Survey

Cooperator: Minnesota Association of Wheat Growers, NDSU IPM Survey

Purpose of Study:

The objective of this project was to allow for timely small grain crop staging and pest identification across the state of MN in order to inform producers of current crop conditions and potential threats. Information was released through media (e.g., radio, internet-based news releases, archived web pages, consultant conversations and e-mail. The survey was conducted in coordination with the established NDSU IPM Survey, providing extensive, continuous coverage of small grains across MN and ND.

Results:

Field surveys were initiated the last week of May. Delayed planting conditions resulted in most of the crop being in the initial leaf to tillering stages, however there was earlier planting of a portion of the crop and reflected in some locations in the jointing stage (see map for Growth Stages - June 9 to 20).

The most important insect related production issues were the appearance of cereal aphids which reached threshold levels in some regions of both states.

Small grain diseases by prevalence were Tan Spot, occurring throughout the region; Bacterial Leaf Streak in SW and WC MN; *Septoria* occurring with high incidences in NW MN; Barley Yellow Dwarf incidence was found where aphids established in WC MN; and, Head blight (scab) in SW and WC MN where wet conditions during heading contributed to higher than forecasted infections.

When reviewing the maps. *Incidence* is defined as "the percent of sampled plants with the disease." **Severity** is defined as "the percent of plant tissue that is diseased on affected plants." Therefore, maps that report incidence are reporting percent plants affected. Severity tells us how bad infections were.

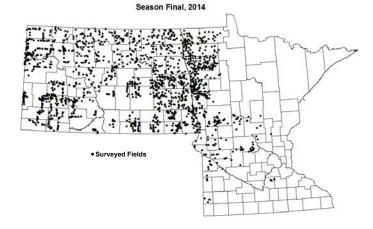
To receive notification of the survey, subscribe to the Northwest Cropping Issues Newsletter at:

http://nwroc.umn.edu/Cropping Issues/index.htm

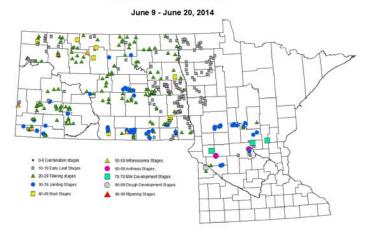
Archived maps are maintained by NDSU and can be found at:

http://nwroc.umn.edu/Cropping Issues/index.htm

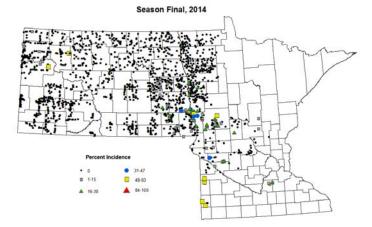
Small Grain Field Locations Visited for Survey



Wheat Growth Stages



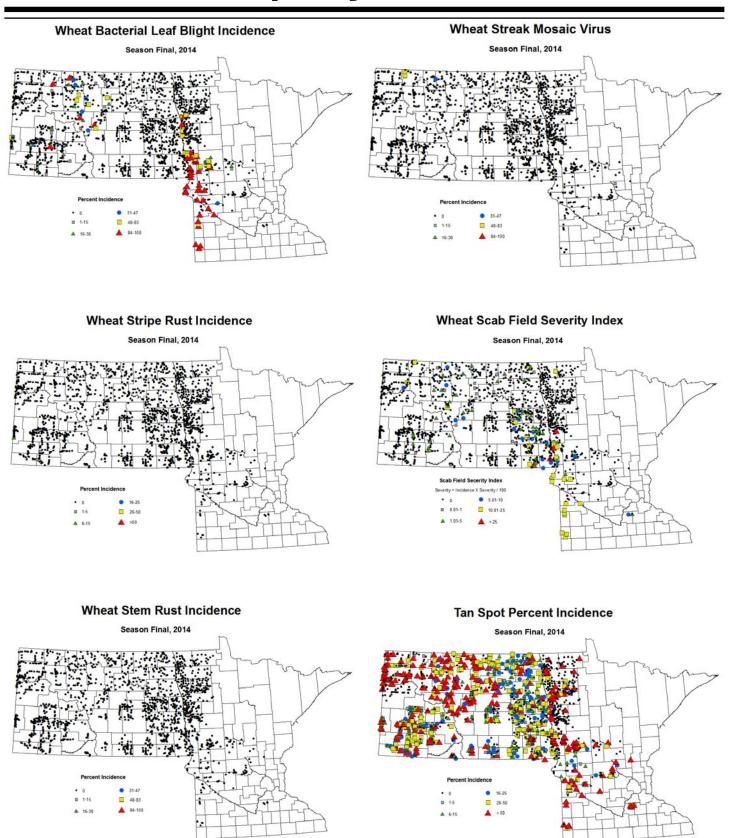
Wheat BYDV



For Additional Information: Phil Glogoza, Doug Holen, Jochum Wiersma, and Madeleine Smith

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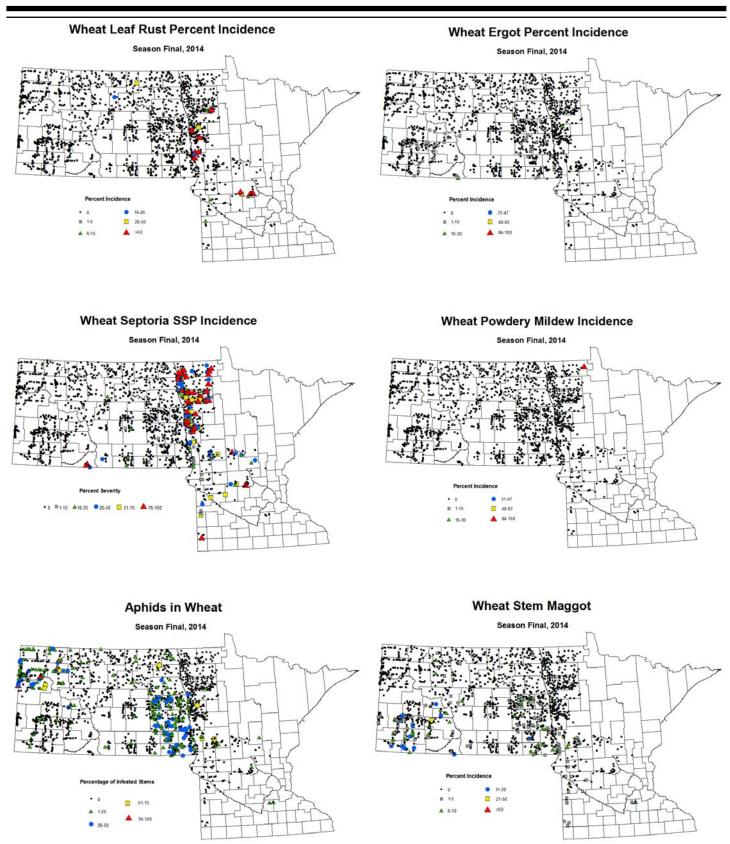
Small Grains Crop Survey (continued) — Statewide



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