

Field Day Topics

(Continued from Page A1)

fungi reproduce readily in wheat planted no-till or with little cultivation.

Many wheat varieties show weak resistance to scab. The scab mold appears as a light, furry, almost powdery substance (like a scab on human skin) on the grain itself. On the wheat leaves, the scab, or fusarium, shows up as dark lesions.

The scab is of concern to grain elevators because of the toxins — called mycotoxins — that are produced. The wheat mids are rejected because of their ability to generate the mycotoxins, also called vomitoxins, which are dangerous to animals, according to DeWolf.

DeWolf noted the pathogens, already in the environment, show up on corn residue as tiny black grains, or fruiting bodies, that look like black pepper. The grains generate spores that travel throughout the wheat fields.

Wheat fields that are in flowering stage are the most vulnerable to the spores. The fungus spreads into the central stem and into the grain.

For wheat growers, weather conditions at flowering can spell disaster if infected. If the temperature is 75 degrees or higher with high humidity and wet conditions, "it will favor scab development," DeWolf noted.

Winter wheat fields planted too early, in September in many cases, could readily become susceptible. The key is to get wheat

planted in the fields later, when colder conditions in later October will prevent development of scab, but not too late that the plants won't be able to grow and thrive throughout the winter.

The scab fungus, according to DeWolf, survives in pasture grasses, ditches, fence rows — it's "a fusarium of the grasses," he said.

Scab management includes proper crop rotation (don't plant wheat after corn), destroying corn residue (clean cultivation may help), and staggering the variety types to provide an "escape window, and spread out your risk," said DeWolf.

As for spraying a fungicide on the wheat, later sprays are not useful because it is hard to hit a vertical head surface area, noted DeWolf. The last time to spray a fungicide would be at the five-leaf growth stage. There are also other timing concerns and growth stage label restrictions.

As for powdery mildew, varieties show good resistance. The fluffy white mycelia growth on the leaves are located on "broad, flat surfaces," so they are easy to see and control. The mycelia look like tiny icicles, and the spores are produced in chains, like a string of footballs. The spores break off

the mycelia and spread out to other leaves and plants.

To find powdery mildew or scab, a simple hand lens is all that's needed. Look at the main tillers of the plant to get an idea about control. It's good to have a sharp pocketknife on hand to cut into the stem to determine stages for treatment.

Tours were also conducted at the field day.

Also at the meeting, Greg Roth, Penn State associate professor of agronomy, spoke about several programs ongoing in Pennsylvania and in Maryland for providing analyses of added values for grain crops.

Two programs stand out. One, in Kent County, Maryland, includes a \$239,000 grant to study soybeans and wheat for export and local processing. Another, in Queen Anne's County, amounts to \$500,000 for similar studies.

Pennsylvania is working on a hard wheat variety program to provide better protein content. Another program is looking to use barley to provide more starch and potential poultry feed. Both would require good disease tolerance.



Speakers at the wheat field day included, from left, John Rowehl, crops agent; Greg Roth, Penn State associate professor; Del Voight, crops agent; and Eric DeWolf, Penn State plant pathologist. Photos by Andy Andrews, editor



Scab fruiting spores in corn residue are what these crop consultants are looking at under microscopes during the Penn State-sponsored Wheat Scouting and Pest Management Field Day in Landisville.

THE KUBOTA REAL DEAL


Grand L30 Series Compact Tractor
Brains and Brawn from 24 to 44 PTO HP

0% APR Financing


on all new Kubota Tractors for up to 36 Months*

THE REAL DEAL - RIGHT NOW
Now is the time to get the Kubota tractor you've always wanted. With 0% APR financing on all new Kubota tractors through June 30, 2003, you can ride away with a real deal.


ELIGIBLE MODELS	MAXIMUM TERM	A.P.R. RATE
ALL NEW KUBOTA T SERIES MODELS	24 MONTHS	0% A.P.R.
ALL NEW KUBOTA TRACTOR MODELS	36 MONTHS	0% A.P.R.
ALL NEW KUBOTA TRACTOR MODELS	48 MONTHS	2.99% A.P.R.
ALL NEW KUBOTA TRACTOR MODELS	60 MONTHS	2.99% A.P.R.
ALL NEW KUBOTA L AND M SERIES MODELS	72 MONTHS	4.49% A.P.R.



T Series Lawn Tractor
15 to 18 HP HST transmission



M Series Tractor
43 to 99.5 PTO HP versatile, dependable, easy to use



BX Sub-compact Tractor
15 to 22 HP liquid cooled diesel engine

See One of These Kubota Dealers Near You!

Pennsylvania
Berrysburg
Prime Line Equipment
Route 25
(717) 362-1000

Cochranville
Stoltzfus Farm Service
1043 Gap Newport Pike
(610) 593-2407

Honesdale
Marshall Machinery Inc
R.R. #4
(570) 729-7117
www.marshallmachinery.com

Mifflinburg
Mifflinburg Farm Service
Route 45 East
(570) 966-3114

Reading
Reading Kubota Inc
5045 Pottsville Pike
(610) 926-2441

Biglerville
O.C. Rice Inc
104 N. Main Street
(717) 677-8135


Elizabethtown
Messicks
187 Merts Drive
(717) 367-1319
(800) 222-3373
www.messicks.com

Lancaster/Lebanon
Keller Bros. Kubota
Lancaster (877) 3Kubota
Lebanon (877) 4Kubota
www.kubotaparts.com

New Berlinville
Erb & Henry Equipment Inc
22-26 Henry
(610) 367-2169
erbhenny98@aol.com

Maryland
Hagerstown
Antietam Tractor & Equipment
20927 Leitersburg Pike
(301) 791-1200

Bloomsburg
Tractor Parts Co
355 Central Road
(570) 784-0250
tractorpartscorp.com



EVERYTHING YOU VALUE

KUBOTA TRACTOR CORPORATION MARKETS A FULL LINE OF TRACTORS AND CONSTRUCTION EQUIPMENT THROUGH A NATIONWIDE NETWORK OF OVER 1,000 AUTHORIZED DEALERS

* Offer ends June 30, 2003. At participating dealers. Minimum 10% down payment. Some exceptions apply. T Series tractors 0% up to 24 months.

**HAY, STRAW,
PEANUT HULLS**

At farm or delivered in any quantity as you require.

Esbenshade Turkey Farm

(America's oldest Since 1858)

Paradise, Pa.
(717) 687-7631

Roof Systems/ Painting • Coating

All Types Interior/Exterior Painting & Coating
Specializing in

- Spray Painting
- Water Blasting
- Deck Restoration & Coating
- Stone & Brick Restoration
- Roof Restoration & Coating
- Hand Painting
- Water Proofing

Liquid Applied Roof Systems

- * Seamless - Cure-in-place - Cold Process, No Flame - Renewable - Leak Proof
- * No Need to Tear Off Old Roof Systems
- * Coating to Cool Roof - (Save up to 20% on Cooling Cost)
- * Metal - Flat-Asphalt - EPDM - Modified

We have the right Product & Solution to Solve your Roofing Problems

Ten year manufacturers Warranties Available

Capital Painting
717-768-0979