

9/2/2014

August was a roller coaster month in the Plant Diagnostic Clinic (PDC). We had a total of 87 samples. The first part of the month started off relatively slow, then as the heat moved in the sample numbers increased. Just a reminder to everyone that samples can be dropped off between 9am and 4pm, Monday – Friday. We have a reserved, free, parking space behind Mumford so you don't have to try to find parking spot. Don't let the busy campus keep you from stopping by.

The most calls we have been receiving are about Oak Wilt. Of the several samples tested, only one has been positive. Seems that oak decline due to the 2012-13 droughts and the long 2013 winter may have taken its toll. Oak decline has been apparent on older trees and those that have been stressed for several years due to inadequate care. If you suspect one of your trees has Oak Wilt, please refer to this USDA publication about collecting adequate samples for testing:

http://www.na.fs.fed.us/spfo/pubs/howtos/ht_oaklab/toc.htm

Activities for the PDC include a visit to the Central Missouri Produce Auction for the 15th Central Missouri Vegetable & Greenhouse Tour. Though I didn't go on the tour, I was able to see some of Missouri's bounty and meet the growers. I also gave a presentation to the local *Hemerocallis* Society on daylily diseases and management, while getting to sample some tasty home baked cookies ☺

Below are the disease issues that have been through the Clinic. Those with marked with an asterisk (*) have been diagnosed more than once.

Agronomic Crops

Host	Diagnosis	Type
Corn	Nutrient	Agronomic
Corn	Northern corn leaf blight*	Agronomic
Corn	Goss's Wilt (<i>Clavibacter michiganensis nebraskensis</i>)*	Agronomic
Corn	Gray leaf spot (<i>Cercospora zeae-maydis</i>)*	Agronomic
Corn	<i>Pythium</i> stalk rot*	Agronomic
German millet	Gray leaf spot (<i>Pyricularia grisea</i>)	Agronomic
Soybean	Nutrient	Agronomic
Soybean	<i>Phomopsis</i> leaf spot	Agronomic
Soybean	Brown spot (<i>Septoria glycines</i>)*	Agronomic

Soybean	<i>Alternaria</i> leaf spot	Agronomic
Soybean	Chemical injury*	Agronomic
Soybean	Soil compaction	Agronomic
Soybean	Bacterial blight (<i>Pseudomonas savastanoi</i>)*	Agronomic
Soybean	<i>Cercospora</i> blight*	Agronomic
Soybean	Soybean vein necrosis virus (suspect)	Agronomic
Soybean	Frog eye leaf spot (<i>Cercospora sojina</i>)	Agronomic
Soybean	Downy mildew (<i>Peronospora manshurica</i>)	Agronomic
Soybean	Sudden Death Syndrome*	Agronomic
Soybean	Twospotted spider mite	Agronomic
Soybean	Brown stem rot (<i>Phialophora gregata</i>)*	Agronomic
Soybean	Charcoal rot (<i>Macrophomina phaseolina</i>)*	Agronomic
Soybean	<i>Phytophthora</i> stem rot	Agronomic

Fruit Crops

Host	Diagnosis	Type
Blackberry	Spur blight (<i>Didymella appianata</i>)	Fruit
Blackberry	Anthraco nose (<i>Elsinoe veneta</i>)	Fruit
Pumpkin	Powdery Mildew	Fruit
Pumpkin	<i>Alternaria</i> leaf spot	Fruit

Pumpkin	Bacterial leaf spot	Fruit
Watermelon	Gummy stem blight (<i>Didymella bryoniae</i>)	Fruit
Pumpkin	Abiotic (nutritional deficiency)	Fruit
Apple	San Jose scale (<i>Quadraspidiotus perniciosus</i>)	Fruit

Vegetable Crops

Host	Diagnosis	Type
Cucumber	Anthrachnose (<i>Colletotrichum orbiculare</i>)	Vegetable
Cucumber	Twospotted spider mite	Vegetable
Cucumber	<i>Alternaria</i> leaf spot	Vegetable
Potato	Common scab	Vegetable
String beans	Twospotted spider mite	Vegetable
String beans	<i>Alternaria</i> leaf and pod spot	Vegetable
Tomato	Abiotic (soil pH)	Vegetable
Tomato	Tobacco mosaic virus (TMV)	Vegetable
Tomato	<i>Septoria</i> leaf spot	Vegetable
Tomato	Twospotted spider mite*	Vegetable
Tomato	Abiotic (weather)	Vegetable
Tomato	Bacterial Canker (<i>Clavibacter michiganensis michiganensis</i>)	Vegetable
Tomato	Tomato spotted wilt virus (TSWV)	Vegetable
Zucchini	Powdery Mildew	Vegetable

Turf

Host	Diagnosis	Type
Bentgrass	Abiotic (black layer)*	Turf
Bentgrass	Anthracnose basal rot (<i>Colletotrichum cereale</i>)	Turf
Bentgrass	<i>Pythium</i> root rot	Turf
Bentgrass	Fairy ring	Turf
Bentgrass	Abiotic (sand abrasion)	Turf
Fescue	Dollar spot (<i>Sclerotinia homoeocarpa</i>)	Turf
Zoysia grass	chinch bugs	Turf

Ornamentals

Host	Diagnosis	Type
Black Locust	Powdery mildew (<i>Phyllactinia guttata</i>)	Ornamental
Fragrant sumac	<i>Verticillium</i> / <i>Fusarium</i> wilt	Ornamental
Maple tree	Anthracnose (<i>Discula spp.</i>)	Ornamental
Oak	Abiotic	Ornamental
Oak	Powdery Mildew*	Ornamental
Oak	Spider mites	Ornamental
Oak	Scarlet oak 'slug' sawfly (<i>Caliroa quercuscoccineae</i>)	Ornamental