Plant Diagnostic Clinic Blog

August 2016

For the month of August the clinic received 100 samples! Of these samples 97 were for plant disease identification, 2 for insect identification and 1 for plant identification. Looking at the samples for plant disease identification, 31 were field crops, 26 were turf samples (mostly from putting greens), and 25 were ornamental plants. We diagnosed a lot of abiotic disorders in all plant types, the weather has caused a lot of environmental stress. Below are lists of the diseases diagnosed by plant type. Diagnoses marked with asterisk (*) were observed more than once.

Agronomic crops:

Host	Diagnosis
Corn	Anthracnose stalk rot* *Colletotrichum graminicola*
Corn	Gray leaf spot* *Cercospora zeae-maydis*
Corn	Common leaf rust* *Puccinia sorghi*
Corn	Crown and root rot Various Fungi
Corn	Diplodia ear rot *Stenocarpella spp.*
Corn	Diplodia leaf streak *Stenocarpella macrospora*
Corn	Diplodia stalk rot* *Diplodia spp.*
Corn	Rhizoctonia root rot* *Rhizoctonia spp.*
Corn	Southern corn rust* *Puccinia polysora*
Soybean	Alfalfa mosaic virus (suspected)
Soybean	Charcoal rot

	Macrophomina phaseolina
Soybean	Thrips damage
Soybean	Crown and stem rot* *Phytophthora spp.*
Soybean	Downy mildew *Peronospora spp.*
Soybean	Brown stem rot* *Cadophora gregata*
Soybean	Sudden death syndrome* *Fusarium virguliforme*
Soybean	Spider mites*

Vegetables:

Host	**Diagnosis**
Pepper	Anthracnose * *Colletotrichum spp.*
Pepper	Gray mold *Botrytis cinerea*
Potato	Stem rot *Phytophthora spp.*
Pumpkin	Alternaria leaf blight *Alternaria spp.*
Pumpkin	Root and crown rot *Phytophthora spp.*
Tomato	Anthracnose *Colletotrichum coccodes*
Tomato	Early blight* *Alternaria solani*
Tomato	Septoria leaf spot* *Septoria lycopersici*

Fruits:

Host	Diagnosis
Strawberry	Charcoal rot* *Macrophomina phaseolina*
Watermelon	Crown and root rot* *Phytophthora spp.*

Turf:

Host	Diagnosis
Bentgrass	Algae*
Bentgrass	Leaf spot *Bipolaris spp.*
Bentgrass	Summer patch* *Magnaporthiopsis poae*
Bentgrass	Plant parasitic nematodes* (identified @ MU Nematology Lab)
Bentgrass	Pythium root rot* *Pythium spp.*
Bentgrass	Take-all patch *Gaemannomyces spp.*
Fescue	Brown patch *Rhizoctonia solani*
Zoysiagrass	Chinch bugs *Blissus spp.*

Ornamentals:

Host	Diagnosis
American Elm	Black spot *Stegophora ulmea*
Arborvitae	Arborvitae needle blight *Phyllosticta thujae*
Barberry	Crown and root rot *Phytophthora spp.*
Blue Spruce	Stigmina needle blight

	Stigmina lautii
Boxwood	Volutella blight *Volutella buxi*
Butterfly Bush	Crown and root rot *Phytophthora spp.*
Elm	Elm bark beetle *Scolytus scolytus*
English Ivy	Crown and root rot *Phytophthora spp.*
Lilac	Crown and root rot *Phytophthora spp.*
Linden	Wood decay *Schizophyllum commune*
Magnolia	Magnolia scale *Neolecanium cornuparvum*
Magnolia	Spider mites
Pin Oak	Oak wilt *Ceratocystis fagacearum*
Pin Oak	Vein pocket gall* *Macrodiplosis quercusoruca*
Pine	Brown spot needle blight *Mycosphaerella dearnessii*
Pine	Pine needle scale *Chionaspis pinifoliae*
Rose	Bacterial hairy root *Agrobacterium rhizogenes*
Viburnum	Crown and root rot *Phytophthora spp.*
White Oak	Jumping oak gall *Neuroterus spp.*