August 1, 2014

For the month of July there were 90 samples submitted to the Plant Diagnostic Clinic. Two were for plant / weed identification, 14 turfgrass disease identification and the other 74 were for general plant disease diagnosis. Not included are the countless number of emails, phone calls and walk-ins that trickle or flood in each day. Overall, it has been a steady month with some days busier than others.

The weather has been variable, or perhaps crazy is a better word to describe it. This is the first year I remember wearing a long sleeve shirt on the 4th of July! The cooler weather, especially the low night temperatures, are taking a toll on tomatoes and cucurbits. Both of these crops like warm temperatures. Cool weather can cause flowers to be aborted and / or poor fruit set and development.

Below is a list of diseases or issues that have been diagnosed for the month of July. Some of the issues we have seen repeatedly, they are marked with an *.

Agronomic crops:

Host	**Diagnosis**
Soybean	Chemical injury*
Corn	Disease lesion mimic
Soybean	Pythium root rot
Soybean	Soil compaction / poor root development*
Corn	Nutrient deficiency*
Corn	Chemical injury*
Orchard grass	Brown stripe (*Scolecotrichum graminis*)
Tobacco	Nutrient deficiency
Soybean	Bacterial blight* (*Pseudomonas savastanoi*)
Soybean	Sunscald*
Soybean	Suspected SDS (*Fusarium virguliforme*)
Soybean	Stem canker (*Diaporthe phaseolorum*)
Soybean	Phytophthora stem rot*
Corn	Northern Corn leaf blight*
Alfalfa	Chemical injury

Vegetable crops:

Host	Diagnosis
Green beans	Chemical injury—herbicide
Pepper	Bacterial leaf spot* (*Xanthomonas spp*.)
Rhubarb	Slug damage
Celery	Early blight (*Cercospora spp.*)
Tomato	Chemical injury-herbicide*
Tomato	Adventitious roots girdling* (due to high humidity)
Tomato	Undetermined virus
Tomato	Leaf mold* (*Fulvia fulva*)
Tomato	Sooty mold
Tomato	Pith necrosis*
Tomato	Nutrient deficiency
Tomato	Bacterial canker
Tomato	Rhizoctonia root rot
Tomato	Pythium root rot
Tomato	Bacterial leaf spot* (*Xanthomonas spp*)
Spaghetti squash	Fusarium stem rot

Fruit crops:

Host	Diagnosis
Cantaloupe	Chemical injury-herbicide
Cantaloupe	Fusarium fruit rot
Blackberry	Suspect Tobacco Ring Spot Virus (TRSV)
Raspberry	Cane blight (*Leptosphaeri coniothyrium*)
Raspberry	Scales
Raspberry	Leaf spot (*Sphaerulina rubi*)
Pumpkins	Cool weather (poor fruit set)
Watermelon	Fusarium stem rot
Watermelon	Environmental - water logged roots
Grapes	Chemical injury
Blueberry	Phytophthora root rot

Turfgrass: All nematode diagnoses were from golf course turf.

Host	Diagnosis
Pennlinks bentgrass	Lance nematodes
Zoysiagrass	Large patch* (*Rhizoctonia solani*)
Zoysiagrass	Chinch bugs*
Creeping Bentgrass	Ring nematodes
Creeping Bentgass	Stubby nematodes
Penncross Bentgrass	Anthracnose basal rot (*Colletotrichum graminicola*)
Bentgrass	Brown patch
Bentgrass	Take all patch
Bentgrass	Stunt nematodes
Bentgrass	Lance nematodes
Bentgrass	Blue green algae

Ornamental plants:

Host	Diagnosis
Pin oak	Vein pocket gall
Pin oak	Oak decline*
Pin oak	Suspect oak wilt
White oak	Oak decline
Boston ivy	Environmental - root rot
Crabapple	Twig canker (*Phacidiopycnis washingtonensis*)
Burning bush	Twig blight (*Phomopsis spp.*)
Red maple	Maple spider mite (*Oligonychus aceris*)
Red maple	Anthracnose (*Discula spp., Kabatiella apocrypta*)
Dogwood	Anthracnose (*Discula destructiva*)
Leyland cypress	Winter injury