

## NDSU Plant Diagnostic Lab Periodic Report, July 1 through July 28, 2009

The lab has received 246 samples since July 1, and of these, 40 were from extension offices. Common problems observed on trees and other horticultural samples over the past month include eriophyid mites (those that produce tiny galls and erineum galls), cynipid wasps, aphids, and spider mites. On turf, melting out was diagnosed. In crop samples, more wheat streak mosaic virus was detected on spring wheat, durum wheat, and winter wheat; various root rot pathogens were recovered on pea, sugarbeet, and soybean; and various abiotic problems, including chemical injury by various modes of action, were suspected. Details of the different diagnoses are in the table below.

Host	Diagnosis	# of samples	Counties where samples originated
American Cranberry Bush	Eriophyid mites	1	Otter Tail (MN)
Apple	Apple Black Rot ( <i>Physalospora obtusa</i> )	4	Clay (MN), Cass, Morton
Bur Oak	Cynipid gall wasps	1	Cass
Canola	Unknown abiotic problem	1	Golden Valley
Corn	abiotic problem, nutritional suspected	1	Richland
Crabapple	Apple Black Rot ( <i>Physalospora obtusa</i> )	1	Morton
Dry Bean	Fusarium root rot ( <i>Fusarium oxysporum</i> )	1	Traill
Dry Bean	unknown abiotic disorder	1	Traill
Durum Wheat	Triticum Mosaic Virus	1	Williams
Durum Wheat	WSMV	1	Williams
Field Pea	Root rot suspected, Oomycetes	1	Rolette
Field Pea	Fusarium wilt ( <i>Fusarium oxysporum</i> )	1	Rolette
Field Pea	<i>Fusarium graminearum</i> (secondary)	1	Rolette
Field Pea	Rhizoctonia root rot ( <i>Rhizoctonia solani</i> )	1	Rolette
Grape	Grape downy mildew ( <i>Plasmopara viticola</i> )	1	Burleigh
Green Ash	Ash rust ( <i>Puccinia sparganioides</i> )	1	Cass
Hibiscus	spider mites	1	Cass
Honeylocust	Honeylocust Podgall Midge ( <i>Dasineura gleditschae</i> )	1	Cass
Insect ID	Argus Tortoise Beetle ( <i>Chelymorpha cassidea</i> )	1	Dunn
Lentil	Nutrient imbalance, suspected	1	Golden Valley
Lentil	unknown abiotic disorder	1	Golden Valley

Lilac	saturated soil	1	Cass
Maple	erineum gall mites	1	Cass
Maple	eriophyid mites	1	Cass
Plant ID Request	Birdsfoot Trefoil ( <i>Lotus corniculatus</i> )	1	Cass
Plant ID Request	Black Medic ( <i>Medicago lupulina</i> )	1	Marshall
Plant ID Request	Wild cucumber ( <i>Echinocystis lobata</i> )	1	Hettinger
Plant ID Request	Fairy Candelabra ( <i>Androsace occidentalis</i> )	1	McLean
Plant ID Request	Houndstongue ( <i>Cynoglossum officinale</i> )	1	McLean
Plant ID Request	Wallflower mustard ( <i>Erysimum cheiranthoides</i> )	1	Traill
Plant ID Request	Rough Bugleweed ( <i>Lycopus asper</i> )	1	Traill
Plant ID Request	Stickeywilly ( <i>Galium aparine</i> )	1	McLean
Plant ID Request	Woodland Draba ( <i>Draba nemorosa</i> )	1	McLean
Ponderosa pine	Diplodia tip blight ( <i>Diplodia pinea</i> )	1	Foster
Soil	Soybean Cyst Nematode	1	Cass
Soybean	Charcoal rot ( <i>Macrophomina phaseolina</i> )	1	Clay (MN)
Soybean	Chemical Injury	1	Cass
Soybean	<i>Colletotrichum</i> species	1	Clay (MN)
Soybean	diphenylether injury suspected	1	Stutsman
Soybean	Fusarium Root Rot ( <i>Fusarium</i> species)	2	Barnes, Traverse
Soybean	Fusarium root rot ( <i>Fusarium oxysporum</i> )	1	Traverse
Soybean	Fusarium wilt ( <i>Fusarium oxysporum</i> )	1	Clay (MN)
Soybean	Growth Regulator Effect	1	Cass
Soybean	Lightning Damage	1	Barnes
Soybean	Mechanical Damage or unknown abiotic	2	McIntosh, Stutsman
Soybean	Rhizoctonia root rot ( <i>Rhizoctonia solani</i> )	1	Barnes
Soybean	Soybean Bacterial Blight ( <i>Pseudomonas syringae</i> pv. <i>syringae</i> )	1	McIntosh
Soybean	Soybean Stem Canker ( <i>Diaporthe</i> species)	1	Clay (MN)
Soybean	Sunscald	3	McIntosh, Richland, Stutsman

Spring Wheat	Bacterial Stripe ( <i>Xanthomonas translucens</i> )	1	Traill
Spring Wheat	BYDV-pav	3	Cass, Logan
Spring Wheat	environmental stress	1	Barnes
Spring Wheat	saturated soil	1	Richland
Spring Wheat	High Plains Virus	1	Golden Valley
Spring Wheat	Tan spot ( <i>Pyrenophora tritici-repentis</i> )	1	Traill
Spring Wheat	Triticum Mosaic Virus	16	Adams, Barnes, Benson, Bottineau, Burleigh, Cass, Eddy, Emmons, Griggs, Hettinger, Ransom, Richland, Traill
Spring Wheat	WSMV	17	Barnes, Benson, Bottineau, Eddy, Golden Valley, Griggs, Hettinger, Logan, Ransom, Stark
Sugar Beet	Fusarium Root Rot ( <i>Fusarium</i> species)	1	Richland
Sugar Beet	Fusarium wilt ( <i>Fusarium oxysporum</i> )	3	Richland
Sugar Beet	Insufficient sample	1	Kittson (MN)
Sugar Beet	unknown abiotic disorder	1	Pembina
Tomato	Blossom end rot	1	Cass
Tomato	Growth Regulator Effect	1	McHenry
Turfgrass	Melting Out ( <i>Dreschlera</i> species)	1	Sargent
Turfgrass	Low Nitrogen	1	Sargent
Wheat (type not indicated)	Triticum Mosaic Virus	1	Ramsey
Wheat (type not indicated)	WSMV	1	Ramsey
Winter Wheat	chemical injury suspected	2	Wells
Winter wheat	Tan spot ( <i>Pyrenophora tritici-repentis</i> )	2	Kidder
Winter Wheat	Triticum Mosaic Virus	5	Cavalier, Ransom, Wells
Winter Wheat	WSMV	2	Cavalier, Ransom