## **Cornell University Plant Disease Diagnostic Clinic**

**Diagnostic Review Report** 

Host		Diagnosis  This section reports samples from all statuses. Each sample may have one or more diagnosis or identification; hence this section does not represent the total number of samples		Confidence (to genus)				
Scientific Name  Common Name				Not Detected	Suspected	Inconclusive		
		Time Period Report for June 25 <sup>th</sup> through July 1 <sup>st</sup> 2019						
Acer rubrum	Red Maple	Phytophthora canker ( <i>Phytophthora</i> sp./spp.)	1	0	0	0		
Beta vulgaris var. cicla	Swiss Chard	Additional sample requested (Identification Analysis)	1	0	0	0		
Beta vulgaris var. cicla	Swiss Chard	Nutritional deficiency (Abiotic disorder)	0	0	1	0		
Buxus sp./spp.	Boxwood	Boxwood blight; Leaf and stem blight (Calonectria pseudonaviculata)	0	1	0	0		
Buxus sp./spp.	Boxwood	Unknown abiotic disorder (Abiotic disorder)	0	0	1	0		
Buxus sp./spp.	Boxwood	Volutella leaf blight; Dieback (Volutella sp./spp.)	1	0	0	0		
Cercis sp./spp.	Redbud	Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)	0	0	1	0		
Cercis sp./spp.	Redbud	Moisture stress (Abiotic disorder)	0	0	1	0		
Cercis sp./spp.	Redbud	Verticillium wilt (Verticillium sp./spp.)	0	1	0	0		
Chrysanthemum sp./spp. hybrids	Chrysanthemum	Chrysanthemum white rust ( <i>Puccinia horiana</i> )	1	0	0	0		
Dahlia pinnata	Dahlia	Basal shoot proliferation (Rhodococcus fascians)	0	0	1	0		
Dahlia pinnata	Dahlia	Referred to specialist (Identification Analysis)	1	0	0	0		

Confirmed - The diagnosis was derived using approved molecular technologies, serological testing and/or morphological observations which allowed for the confirmation of the organism to Genus, species and/or race or pathovar level.

Not Detected -The sample was submitted as a suspect sample or as part of survey project. The pathogen was not detected on this sample at this time using approved molecular technologies, serological testing and/or morphological observations.

Suspected - Diagnostic symptoms of the pathogen were present but evidence of the pathogen could not be confirmed at this time. This term may also be used at the species level if confirmations cannot be made. This term may also be used with abiotic entries.

Inconclusive - Although a suitable sample was received, a reliable result could not be achieved. For example, the test kit may have not worked correctly and there was no sample material remaining to perform the test again.

Or, no DNA was detected in a PCR analysis. Inhibitors may have been present in the sample. A second attempt may have been made with the same results. The only conclusion is to label the sample as inconclusive.

## **Cornell University Plant Disease Diagnostic Clinic**

**Diagnostic Review Report** 

Host		Diagnosis Diagnosis		Confidence (to genus)			
Scientific Name	Common Name	This section reports samples from all statuses. Each sample may have one or more diagnosis or identification; hence this section does not represent the total number of samples		Confirmed	Not Detected	Suspected	Inconclusive
Hordeum vulgare Barley Barley loose smut (Ustilago nuda f.sp. hordei)		2	0	0	0		
Ilex glabra	Inkberry	Insufficient sample (Identification Analysis)		2	0	0	0
Ilex sp./spp.	Holly	Insufficient sample (Identification Analysis)		1	0	0	0
Lycopersicon esculentum	Tomato	Pythium root dysfunction ( <i>Pythium</i> sp./spp.)		0	3	0	0
Lycopersicon esculentum	Tomato	Unspecified pathology ( <i>Fusarium</i> sp./spp.)		3	0	0	0
Picea abies	Norway Spruce	Sooty mold (Unidentified Fungus)		1	0	0	0
Picea abies	Norway Spruce	Spruce bud scale ( <i>Physokermes</i> sp./spp.)		1	0	0	0
Picea abies	Norway Spruce	Unspecified pathology ( <i>Rhizosphaera</i> sp./spp.)		1	0	0	0
Picea pungens	Blue Spruce	Cytospora canker; Dieback (Cytospora sp./spp.)		0	0	1	0
Picea pungens	Blue Spruce	High soil moisture (Abiotic disorder)		0	0	1	0
Pinus densiflora umbraculifera	Tanyosho Pine	Diplodia tip blight; Canker (Sphaeropsis sapinea)		1	0	0	0
Pinus densiflora umbraculifera	Tanyosho Pine	Unknown abiotic disorder (Abiotic disorder)		0	0	1	0

Confirmed - The diagnosis was derived using approved molecular technologies, serological testing and/or morphological observations which allowed for the confirmation of the organism to Genus, species and/or race or pathovar level.

Not Detected -The sample was submitted as a suspect sample or as part of survey project. The pathogen was not detected on this sample at this time using approved molecular technologies, serological testing and/or morphological observations.

Suspected - Diagnostic symptoms of the pathogen were present but evidence of the pathogen could not be confirmed at this time. This term may also be used at the species level if confirmations cannot be made. This term may also be used with abiotic entries.

Inconclusive - Although a suitable sample was received, a reliable result could not be achieved. For example, the test kit may have not worked correctly and there was no sample material remaining to perform the test again.

Or, no DNA was detected in a PCR analysis. Inhibitors may have been present in the sample. A second attempt may have been made with the same results. The only conclusion is to label the sample as inconclusive.

## **Cornell University Plant Disease Diagnostic Clinic**

**Diagnostic Review Report** 

Host		Diagnosis Diagnosis		Confidence (to genus)			
Scientific Name	Common Name	This section reports samples from all statuses. Each sample may have one or more diagnosis or identification; hence this section does not represent the total number of samples		Confirmed	Not Detected	Suspected	Inconclusive
Pinus rigida	Pitch Pine	Diplodia tip blight; Canker (Sphaeropsis sapinea)		1	0	0	0
Pinus rigida	Pitch Pine	Red band needle blight (Dothistroma septosporum)		2	0	0	0
Pinus sp./spp.	Pine	Diplodia tip blight; Canker (Sphaeropsis sapinea)		1	0	0	0
Pinus sp./spp.	Pine	Needle cast (Unidentified Agent)		0	0	1	0
Pinus sp./spp.	Eastern White pine	Brown spot; Needle blight ( <i>Mycosphaerella dearnessii</i> )		1	0	0	0
Platanus sp./spp.	Planetree; Sycamore	Sycamore anthracnose ( <i>Apiognomonia veneta</i> )		1	0	0	0
Platanus x acerifolia	London Planetree	Eriophyid mites (Family Eriophyidae)		1	0	0	0
Platanus x acerifolia	London Planetree	Insect damage (Unidentified Insect)		0	0	1	0
Platanus x acerifolia	London Planetree	Powdery mildew ( <i>Oidium</i> sp./spp.)		1	0	0	0
Rudbeckia fulgida	Orange Coneflower	Downy mildew ( <i>Plasmopara</i> sp./spp.)		1	0	0	0

Confirmed - The diagnosis was derived using approved molecular technologies, serological testing and/or morphological observations which allowed for the confirmation of the organism to Genus, species and/or race or pathovar level.

Not Detected -The sample was submitted as a suspect sample or as part of survey project. The pathogen was not detected on this sample at this time using approved molecular technologies, serological testing and/or morphological observations.

Suspected - Diagnostic symptoms of the pathogen were present but evidence of the pathogen could not be confirmed at this time. This term may also be used at the species level if confirmations cannot be made. This term may also be used with abiotic entries.

Inconclusive - Although a suitable sample was received, a reliable result could not be achieved. For example, the test kit may have not worked correctly and there was no sample material remaining to perform the test again.

Or, no DNA was detected in a PCR analysis. Inhibitors may have been present in the sample. A second attempt may have been made with the same results. The only conclusion is to label the sample as inconclusive.

**Diagnostic Review Report** 

	comen	oniversity i faire bisease biagnostic enime	Diagnostic Neview Neport					
Host		Diagnosis		Confidence (to genus)				
Scientific Name	Common Name	This section reports samples from all statuses. Each sample may have one or more diagnosis or identification; hence this section does not represent the total number of samples		Confirmed	Not Detected	Suspected	Inconclusive	
Rudbeckia fulgida	Orange Coneflower	Thrips damage (Unidentified Thrips)		1	0	0	0	
Triticum aestivum	Winter Wheat	Root rot and sharp eyespot (Rhizoctonia cerealis)		1	0	0	0	
Ulmus americana	American Elm	Additional sample requested (Identification Analysis)		3	0	0	0	
Ulmus americana	American Elm	Dutch elm disease (Ophiostoma sp./spp.)		3	3	0	0	

Confirmed - The diagnosis was derived using approved molecular technologies, serological testing and/or morphological observations which allowed for the confirmation of the organism to Genus, species and/or race or pathovar level.

Not Detected -The sample was submitted as a suspect sample or as part of survey project. The pathogen was not detected on this sample at this time using approved molecular technologies, serological testing and/or morphological observations.

Suspected - Diagnostic symptoms of the pathogen were present but evidence of the pathogen could not be confirmed at this time. This term may also be used at the species level if confirmations cannot be made. This term may also be used with abiotic entries.

Inconclusive - Although a suitable sample was received, a reliable result could not be achieved. For example, the test kit may have not worked correctly and there was no sample material remaining to perform the test again.

Or, no DNA was detected in a PCR analysis. Inhibitors may have been present in the sample. A second attempt may have been made with the same results. The only conclusion is to label the sample as inconclusive.