Unknown abiotic disorder (Abiotic disorder)

European hornbeam leafminer (Stigmella microtheriella)

Insect damage (Unidentified Insect)

Moisture stress (Abiotic disorder)

Buxus sp./spp.

Buxus sp./spp.

Buxus sp./spp.

Carpinus betulus

Carpinus betulus

Boxwood

Boxwood

Boxwood

European

Hornbeam

European

Hornbeam

#### **Diagnostic Review Report**

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Host		Diagnosis		<b>Confid</b> (to ge		_
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
		Time Period Report for September 11 <sup>th</sup> through September 24 <sup>th</sup> 2018				
Allium sativum	Garlic	Botrytis blight ( <i>Botrytis</i> sp./spp.)	0	0	1	0
Allium sativum	Garlic	Skin blotch (Alternaria embellisia)	1	0	0	0
Allium sativum	Garlic	Blue mold rot ( <i>Penicillium</i> sp./spp.)	1	0	0	0
Allium sativum	Garlic	Bulb mite (Rhizoglyphus sp./spp.)	1	0	0	0
Allium sativum	Garlic	Stem and bulb nematode ( <i>Ditylenchus dipsaci</i> )	0	7	0	0
Buxus sp./spp.	Boxwood	Boxwood Macrophoma leaf spot ( <i>Dothiorella candollei</i> )	1	0	0	0
Buxus sp./spp.	Boxwood	Boxwood Volutella blight; Canker (Volutella buxi)	1	0	0	0
Buxus sp./spp.	Boxwood	Boxwood blight; Leaf and stem blight (Calonectria pseudonaviculata)	3	1	0	0
Buxus sp./spp.	Boxwood	Leaf blight ( <i>Volutella buxi</i> )	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.

Non-pathogenic; Saprophyte (Secondary Agents; Saprophytes; Unspecif.)

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**

Hos	inus betulus   European   Hornbeam   Unspecified pathology (Cytospora sp./spp.)   Hornbeam   Anthracnose (Monostichella robergei)   is canadensis   Eastern Redbud   Additional sample requested (Identification Analysis)   is canadensis   Eastern Redbud   Verticillium wilt (Verticillium sp./spp.)   is canadensis   Eastern Redbud   Verticillium wilt (Verticillium sp./spp.)   is canadensis   Lily-of-the-valley   Anthracnose (Colletotrichum sp./spp.)   valleria   Lily-of-the-valley   Environmental stress; Problem (Abiotic disorder)   vallery   International College   International			Confidence (to genus)			
Scientific Name				Confirmed	Not Detected	Suspected	Inconclusive
Carpinus betulus			1	0	0	0	
Carpinus sp./spp.	Hornbeam	Anthracnose (Monostichella robergei)		1	0	0	0
Cercis canadensis	Eastern Redbud	Additional sample requested (Identification Analysis)		1	0	0	0
Cercis canadensis	Eastern Redbud	Verticillium wilt ( <i>Verticillium</i> sp./spp.)		0	1	0	0
Convallaria sp./spp.	,	Anthracnose (Colletotrichum sp./spp.)		1	0	0	0
Convallaria sp./spp.	•	Environmental stress; Problem (Abiotic disorder)		0	0	1	0
Convallaria sp./spp.	*	Moisture stress (Abiotic disorder)		0	0	1	0
Convallaria sp./spp.	•	Spider mites (Family Tetranychidae)		1	0	0	0
Fagus grandifolia	American Beech	Intumescence (Abiotic disorder)		1	0	0	0
Fagus grandifolia	American Beech	Moisture stress (Abiotic disorder)		0	0	1	0
Hamamelis sp./spp.	Witchhazel	Leaf scorch (Abiotic disorder)		0	0	1	0
Hamamelis sp./spp.	Witchhazel	Non-pathogenic; Saprophyte (Secondary Agents; Saprophytes; Unspecif.)		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**

Но	st	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
Humulus lupulus	Hops	Alternaria cone disorder ( <i>Alternaria alternata</i> )		1	0	0	0
Humulus lupulus	Hops	Hop downy mildew (Pseudoperonospora humuli)		3	0	0	0
Humulus lupulus	Hops	Black mold; Mildew ( <i>Alternaria alternata</i> )		2	0	0	0
Humulus lupulus	Hops	Powdery mildew ( <i>Podosphaera macularis</i> )		2	0	0	0
Larix decidua	European Larch	Larch needle cast; European (Mycosphaerella laricina)		0	0	1	0
Malus domestica	Domestic Apple	Honeycrisp chlorosis (Abiotic disorder)		1	0	0	0
Malus domestica	Domestic Apple	Non-pathogenic; Saprophyte (Secondary Agents; Saprophytes; Unspecif.)		1	0	0	0
Malus domestica	Domestic Apple	Root damage (Abiotic disorder)		0	0	1	0
Malus domestica	Domestic Apple	Unknown abiotic disorder (Abiotic disorder)		0	0	1	0
Ostrya virginiana	Hophornbeam	Additional sample requested (Identification Analysis)		1	0	0	0
Ostrya virginiana	Hophornbeam	High soil moisture (Abiotic disorder)		0	0	1	0
Prunus laurocerasus	Cherry-laurel	Additional sample requested (Identification Analysis)		1	0	0	0
Prunus laurocerasus	Cherry-laurel	High soil moisture (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.

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## **Diagnostic Review Report**

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
Prunus laurocerasus	Cherry-laurel	Shothole (Various Pathogens)		1	0	0	0
Quercus michauxii	Swamp Chestnut oak	Aphids; Plant lice (Family Aphididae)		1	0	0	0
Quercus michauxii	Swamp Chestnut oak	Moisture stress (Abiotic disorder)		0	0	1	0
Quercus michauxii	Swamp Chestnut oak	Spider mites (Family Tetranychidae)		1	0	0	0
Quercus palustris	Pin Oak	High pH damage (Abiotic disorder)		0	0	2	0
Quercus palustris	Pin Oak	Leaf spot ( <i>Tubakia dryina</i> )		2	0	0	0
Quercus palustris	Pin Oak	Bacterial leaf scorch (Xylella fastidiosa)		1	0	0	0
Quercus robur	English Oak	Bacterial leaf scorch (Xylella fastidiosa)		1	0	0	0
Quercus rubra	Northern Red oak	Bacterial leaf scorch (Xylella fastidiosa)		1	0	0	0
Quercus sp./spp.	Red Oaks	Bacterial leaf scorch (Xylella fastidiosa)		1	0	0	0
Reseda luteola	Dyer's Rocket	Cercospora leaf spot (Cercospora 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.

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## **Diagnostic Review Report**

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Host		Diagnosis			<b>e</b> )		
Scientific Name	Common Name	his section reports samples from all statuses. Each sample may have one or more diagnosis or identification; lence this section does not represent the total number of samples		Confirmed	Not Detected	Suspected	Inconclusive
Solanum Potato Potato black leg: Stem rot ( <i>Pectobacterium</i> sp.) 4		1	Ι ο	_			
tuberosum	Potato	Potato black leg; Stem rot ( <i>Pectobacterium</i> sp.)		4	U	U	0
Thuja sp./spp.	Arborvitae	Pestalotiopsis dieback (Pestalotiopsis funerea)		1	0	0	0
<i>Thuja</i> sp./spp.	Arborvitae	Unknown abiotic disorder (Abiotic disorder)		0	0	1	0
Vitis vinifera	European Grape	Tobacco ringspot (TRSV) (Nepovirus Tobacco Ringspot Virus)		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.

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