

**2022 National Collegiate Landscape Competition
Plant Problem Diagnosis ID List
North Carolina State University**

Scientific Name or Causal Agent	Pest Common Name	Common Hosts
A		
Ambrosia Beetle	Various	Various
American mistletoe	<i>Phoradendron sp.</i>	
Aphids	<i>Aphis sp.</i>	
Apple scab	<i>Venturia inaequalis</i>	<i>Malus sp.</i>
Ash anthracnose	<i>Gnomoniella fraxini</i>	Ash
Asian Longhorn beetle	<i>Anoplophora glabripennis</i>	
Azalea Bark Scale	<i>Ericoccus azaleae</i>	Azalea
Azalea lace bug	<i>Stephanitis pyriodes</i>	<i>Rhododendron sp.</i>
B		
Bacterial leaf scorch	<i>Xylella fastidiosa</i>	Oak, Maple, Sycamore
Bacterial leaf spot	<i>Xanthomonas sp.</i>	English Ivy
Bagworm	<i>Thyridopteryx ephemeraeformis</i>	
Black knot	<i>Apiosporina morbosa</i>	Cherry, Plum
Black root rot	<i>Thielaviopsis basicola</i>	Holly
Black spot of rose	<i>Diplocarpon rosae</i>	Rose
Black Vine Weevil	<i>Otiorynchus sulcatus</i>	
Botryosphaeria canker	<i>Botryosphaeria sp.</i>	
Botrytis flower blight	<i>Botrytis cinerea</i>	Marigold, Pansy, Geranium
Boxwood blight	<i>Calonectria pseudonaviculata</i>	Boxwood, Sarcococca, Pachysandra
Boxwood leafminer	<i>Monarthropalpus flavus</i>	Boxwood
Boxwood psyllid	<i>Cacopsylla buxi</i>	Boxwood
Brittle Cinder Fungus	<i>Kretzschmaria deusta</i>	Maples and others
Bronze Birch Borer	<i>Agilus anxius</i>	Birch
Brown Marmorated Stink Bug	<i>Halyomorpha halys</i>	
Brown Patch	<i>Rhizoctonia solani</i>	Turf
C		
California Oakworm	<i>Phryganidia californica</i>	Oak
Camellia/Azalea leaf gall	<i>Exobasidium sp.</i>	Camellia, Azalea
Cedar-apple/quince/ hawthorn rust	<i>Gymnosporangium sp.</i>	Juniper, Apple, Crabapple, Hawthorn, Quince

Chestnut blight	<i>Cryphonectria parasitica</i>	Chestnut
Cooley Spruce gall adelgid	<i>Adelgis cooleyi</i>	Colorado blue, Sitka, Engelman, White Spruce; Douglas-fir
Cottony camellia/taxus scale	<i>Pulvinaria floccifera</i>	Camellia, yew, holly
Cottony cushion scale	<i>Icerya purchasi</i>	
Cottony maple scale	<i>Pulvinaria innumerabilis</i>	
Crown gall	<i>Agrobacterium tumefaciens</i>	Pecan, Willow, Rose Oak
Cynipid Gall Wasp		Maple, Spruce
Cytospora Canker	<i>Cytospora sp.</i>	
D		
Diplodia/Sphaeropsis tip blight	<i>Spaeropsis sapinea</i>	<i>Pinus sp.</i>
Dogwood borer	<i>Synanthedon scitula</i>	Dogwood
Dollar spot	<i>Sclerotinia homeocarpa</i>	Turf
Dothistroma needle blight	<i>Mycosphaerella sp.</i>	<i>Pinus sp.</i>
Dutch Elm Disease	<i>Ceratocystis ulmi / Ophiostoma ulmi</i>	American, Belgian, Cedar, English, September, European, and winged Elm
E		
Eastern Filbert Blight	<i>Anisogramma anomala</i>	American Filbert, European Filbert, Beaked Filbert, Giant Filbert
Elm bark beetle	<i>Hylurgopinus rufipes</i>	<i>Ulmus sp.</i>
Elm leaf beetle	<i>Xanthogaleruca luteola</i>	<i>Ulmus sp.</i>
Elongate Hemlock Scale	<i>Fiorinia externa</i>	Hemlock
Emerald Ash Borer	<i>Agilus planipennis</i>	Ash
Entomosporium leaf spot	<i>Entomosporium mespili / E. maculate</i>	Photinia, Raphiolepis
Euonymus scale	<i>Unaspis euonymi</i>	Euonymus, Camellia, Buxus, Daphne, Hedera, Ilex, Ligustrum, Pachysandra and Prunus
European Hornet	<i>Vespa crabro germana</i>	Lilac, Birch, Willow, Boxwood, Poplar
European red mite	<i>Panonychus ulmi</i>	

F

Fall webworm
Fireblight

Hyphantria cunea
Erwinia amylovora

Apple, Crabapple,
Pear, Pyracantha

Flatheaded appletree borer

Chrysobothris femorata

Maple, Oak, Hickory,

Sycamore, Willow,
Rose, Cotoneaster
Oak, Pine

Fusiform rust

Cronartium quercuum

G

Ganoderma root and butt rot

Ganoderma lucidum

Gloomy Scale

Melanaspis tenebricosa

Maple

Gypsy moth

Lymantria dispar

H

Hackberry nippegall maker

Pachypsylla celtidismamma

Hackberry

Hemlock rust mite

Nalepella tsugifoliae

Hemlock

Hemlock woolly adelgid

Adelgis tsugae

Hemlock

Herbicide Injury

Various symptoms

Holly leafminer

Phytomyza ilicicola

Holly

Holly Pit Scale

Asterolecanium puteanum

American, Chinese,
Japanese Holly

Honeylocust Plant Bug

Blepharidopterus chlorionis

Honeylocust

Hypoxylon canker-dieback

Hypoxylon sp.

Oak

I

Interveinal Chlorosis

Iron deficiency

Inonotus Root & Butt Rot

Inonotus spp.

Oak, Paper birch, Black
Cottonwood

J

Japanese beetle

Popillia japonica

Japanese Maple Scale

Lopholeucaspis japonica

Maple, Dogwood,
Holly, Magnolia,
Prunus

Juniper scale

Carulaspis juniperi

Juniper, Cypress,
Chamaecyparis

L

Lady beetles

Leaf blister

Taphrina caerulescens

Oak

Leafhoppers

Lecanium Scale

Eulecanium /
Parthenolecanium spp.

Various

Lichens	<i>A fungus & algae association – not parasitic</i>	
Lilac/ash borer	<i>Podosesia syringae</i>	
Lygus bugs	<i>Lygus sp.</i>	
M		
Magnolia scale	<i>Neolecanium cornuparvum</i>	<i>Magnolia stellata, M. acuminata, M. quinquepeta, and M. soulangeana</i>
Maple Petiole Borer	<i>Caulocampus acericaulis</i>	Maple
Masked chafer		
Maskell Scale	<i>Lepidosaphes pallida</i>	Cryptomeria
Mealybugs		
Mimosa webworm	<i>Homadaula anisocentra</i>	Mimosa, Thornless Honeylocust
Mosaic/Ringspot	<i>Various viruses</i>	Rose, Camellia, Dogwood, Aspen
N		
Nectria canker	<i>Nectria sp.</i>	
Cypress tip miners[MM1]	<i>Argyresthia sp.</i>	Cypress, juniper, Arborvitae, and Redwood
Nitrogen deficiency	Old leaves yellow	
O		
Oak Anthracnose	<i>Discula quercina</i>	White Oak
Oak Leafminer	<i>Cameraria hamadryadella</i>	Oak
Oak Wilt	<i>Ceratocystis fagacearum</i>	Red and Live Oak
Obscure Scale	<i>Melanaspis obscura</i>	Oak
Orange Striped Oakworm	<i>Anisota senatoria</i>	Oak
Ovulinia petal blight	<i>Ovulinia azalea</i>	<i>Rhododendron sp.</i>
P		
Peachtree borer	<i>Synanthedon exitiosa</i>	<i>Prunus sp.</i>
Pestalotia Blight / Leaf Spot	<i>Pestalotiopsis spp.</i>	Various
Phomopsis blight	<i>Phomopsis juniperovora</i>	Juniper
Phytophthora root and crown rot	<i>Phytophthora sp.</i>	
Pine needle scale	<i>Chionaspis pinifoliae</i>	Pines, Spruces, Douglas-fir and Cedar
Pine tip moths		Pine

Pinewood Nematode	<i>Bursaphelenchus xylophilis</i>	Japanese Black, Austrian, Mugo, and other non-native pines
Pitch Canker	<i>Fusarium moniliforme</i> var. <i>subglutinans</i>	Monterey, Virginia, Loblolly, and other Pines
Poplar leaf rust	<i>Melampsora medusae</i>	Poplar, Douglas-fir, eastern and western larches, and lodgepole and ponderosa pines
Powdery mildew		
R		
Redhumped caterpillar	<i>Schizura</i> sp.	
Rhabdocline needlecast	<i>Rhabdocline pseudotsugae</i>	Douglas-fir
Rhizosphaera needlecast	<i>Rhizosphaera</i> sp.	Spruce, Fir
Root knot nematode	<i>Meloidogyne</i> sp.	
Rose Rosette Virus	Virus	Rose
S		
San Jose scale	<i>Quadraspidiotus perniciosus</i>	
Sapsucker / Woodpecker		Hemlock, Pine, Spruce, Fir, Maple, Beech, Birch, Willow
Seiridium Blight / Canker	<i>Seiridium unicorne</i>	Leyland Cypress
Shoestring root rot	<i>Armillaria mellea</i>	
Spring cankerworm	<i>Paleacrita vernata</i>	Elm, Hickory, Maple, Ash, Beech, Basswood, Oak and Apple
Spruce bud scale	<i>Physokermes hemicryphus</i>	Spruces, especially Norway
Spruce Needleminer	<i>Endothenia albolineana</i>	Spruce
Spruce spider mite	<i>Oligonychus ununguis</i>	Spruce, Arborvitae, Juniper, Hemlock, Pine, Douglas-fir, Siberian larch and other conifers
Stigmima Needle Blight	<i>Stigmima lautii</i>	Spruce
Sudden Oak Death	<i>Phytophthora ramorum</i>	Coast Live Oak, Coast Redwood, Tanoak, etc.
Swiss Needlecast	<i>Phaeocryptopus gaeumannii</i>	Douglas Fir

T

Tar spot

Rhytisma sp.

Maple

Tea Scale

*Fiorinia theae*Camellia, Chinese
Holly, Burford Holly

Tent caterpillar

Malacosoma sp.

Cherry

Thousand Cankers Disease

Geosmithia morbida

Black Walnut

Thrips

Tubakia Leaf Spot

Tubakia spp.

Oak

Two spotted spider mite

Twolined Chestnut borer

Agilus bilineatus

Oak, Chestnut

Twolined spittlebug

Prosapia bicinata

Turf

V

Verticillium Wilt

*Verticillium dahlia*Many, but also many
resistant species

Volutella blight

Volutella pachysandricola

Pachysandra

W

Wax scale

Weevils

White peach scale

White pine weevil

Whiteflies

*Pseudolaulacaspis pentagona**Pissodes strobe*Peach, Cherry
Pines, Spruces
Ash, Dogwood,
Sycamore, Sweetgum,
Honeylocust, Black
locust, Barberry,
Redbud, Hibiscus,
Rose, and more