

**2023 National Collegiate Landscape Competition
Plant Problem Diagnosis ID List
Mississippi State University**

Common Name	Scientific Name	Common Hosts or Abiotic Symptoms
A		
Ambrosia beetle	Various (Family Curculionidae)	Various
American mistletoe	<i>Phoradendron</i> spp.	Various
Aphids	Various (Family Aphididae)	Various
Apple scab	<i>Venturia inaequalis</i>	<i>Malus</i> spp.
Ash anthracnose	<i>Plagiostoma fraxini</i>	Ash
Asian longhorned beetle	<i>Anoplophora glabripennis</i>	Various hardwoods
Azalea bark scale	<i>Ericoccus azaleae</i>	Azalea
Azalea lace bug	<i>Stephanitis pyriodes</i>	Rhododendron
B		
Bacterial leaf scorch	<i>Xylella fastidiosa</i>	Oak, Maple, Sycamore
Bacterial leaf spot	<i>Xanthomonas</i> spp.	English Ivy
Bagworm	<i>Thyridopteryx ephemeraeformis</i>	Arborvitae, Cedar, Juniper, Leyland Cypress
Beech leaf disease	<i>Litylenchus crenatae mccannii</i>	Beech
Black knot	<i>Apiosporina morbosa</i>	Cherry, Plum
Black root rot	<i>Berkeleyomyces basicola</i>	Holly, Boxwood, Various
Black spot of rose	<i>Diplocarpon rosae</i>	Rose
Black vine weevil	<i>Otiorhynchus sulcatus</i>	Azalea, Hemlock, Japanese Holly, Rhododendron
Botryosphaeria canker	<i>Botryosphaeria</i> spp.	Various
Botrytis flower blight	<i>Botrytis cinerea</i>	Marigold, Pansy, Geranium
Boxtree moth	<i>Cydalima perspectalis</i>	Boxwood
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>	Maple and others
Bronze birch borer	<i>Agrilus anxius</i>	Birch
Brown marmorated stink bug	<i>Halyomorpha halys</i>	Various
Brown patch	<i>Rhizoctonia solani</i>	Turf
Brown spot needle blight	<i>Lecanosticta acicola</i>	Pine, Deodar cedar

C

California oakworm	<i>Phryganidia californica</i>	Oak
Camellia/Azalea leaf gall	<i>Exobasidium</i> spp.	Camellia, Azalea
Cedar-apple/quince/hawthorn rust	<i>Gymnosporangium</i> spp.	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>	Various but commonly Pittosporum, Maple, and Boxwood
Cottony maple scale	<i>Pulvinaria innumerabilis</i>	Maple and others
Crown gall	<i>Agrobacterium tumefaciens</i>	Pecan, Willow, Rose
Cynipid gall wasp	Various (Family Cynipidae)	Oak and others
Cypress tip miner	<i>Argyresthia</i> spp.	Cypress, Arborvitae, Juniper
Cytospora canker	<i>Cytospora</i> spp.	Various

D

Diplodia/Sphaeropsis tip blight	<i>Sphaeropsis sapinea</i>	Pine and other conifers
Dogwood borer	<i>Synanthedon scitula</i>	Dogwood
Dollar spot	<i>Clariireedia</i> spp.	Turf
Dutch elm disease	<i>Ophiostoma</i> spp.	Elm

E

Eastern filbert blight	<i>Anisogramma anomala</i>	Hazelnut and other filberts
Elm bark beetle	<i>Hylurgopinus rufipes</i>	Elm
Elm leaf beetle	<i>Xanthogaleruca luteola</i>	Elm
Elongate hemlock scale	<i>Fiorinia externa</i>	Hemlock
Emerald ash borer	<i>Agrilus planipennis</i>	Ash
Entomosporium leaf spot	<i>Diplocarpon mespili</i>	<i>Photinia</i> , <i>Raphiolepis</i> , other <i>Rosaceae</i>
Euonymus scale	<i>Unaspis euonymi</i>	<i>Euonymus</i> , Privet, Pachysandra
European hornet	<i>Vespa crabro germana</i>	Lilac, Birch, Willow

F

Fall webworm	<i>Hyphantria cunea</i>	Various
Fireblight	<i>Erwinia amylovora</i>	Apple, Crabapple, Pear, Pyracantha
Flatheaded appletree borer	<i>Chrysobothris femorata</i>	Apple, Maple, Poplar
Fusiform rust	<i>Cronartium quercuum</i>	Pine, Oak

G

Ganoderma root & butt rot
Gloomy scale

Ganoderma spp.
Melanaspis tenebricosa

Various
Maple

H

Hackberry nipplegall maker
Hemlock rust mite
Hemlock woolly adelgid
Herbicide injury

Pachypsylla celtidismamma
Nalepella tsugifoliae
Adelgis tsugae
-

Hackberry
Hemlock
Hemlock
Various symptoms on
any host

Holly leafminer
Holly pit scale
Honeylocust plant bug
Hypoxylon canker-dieback

Phytomyza ilicicola
Asterolecanium puteanum
Blepharidopterus chlorionis
Biscogniauxia spp.

Holly
Holly
Honeylocust
Oak, other hardwoods

I

Interveinal chlorosis

-

Iron/manganese
deficiency

Inonotus root & butt rot

Inonotus spp.

Oak, Beech, Poplar

J

Japanese beetle
Japanese maple scale

Popillia japonica
Lopholeucaspis japonica

Various
Maple, Dogwood, Holly,
Magnolia, *Prunus* spp.

Juniper scale

Carulaspis juniperi

Juniper, Cypress

L

Lady beetles
Leaf blisters
Leafhoppers
Lecanium scale
Lichens

Various (Family Coccinellidae)
Taphrina caerulescens
Various (Family Cicadellidae)
Eulecanium/Parthenolecanium spp.
-

Various
Oak
Various
Various
A fungus & algae
association (not
parasitic)

Lilac/ash borer
Lygus bugs

Podosesia syringae
Lygus spp.

Lilac, Ash
Various

M

Magnolia scale
Maple petiole borer
Masked chafer
Maskell scale
Mealybugs
Mimosa webworm
Mosaic/Ringspot

Neolecanium cornuparvum
Caulocampus acericaulis
Cyclocephala spp.
Lepidosaphes pallida
Various (Family Pseudococcidae)
Homadaula anisocentra
Various viruses

Magnolia
Maple
Various
Cryptomeria
Various
Mimosa, Honeylocust
Rose, Camellia,
Dogwood, Aspen

N

Nectria canker	<i>Nectria</i> spp.	Various
Nitrogen deficiency	-	General leaf chlorosis

O

Oak anthracnose	<i>Apiognomonina errabunda</i>	Oak
Oak leafminer	<i>Cameraria hamadryadella</i>	Oak
Oak wilt	<i>Bretziella 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 azaleae</i>	Rhododendron

P

Peachtree borer	<i>Synanthedon exitiosa</i>	<i>Prunus</i> spp.
Pestalotia blight/leaf spot	<i>Pestalotiopsis</i> spp.	Various
Phomopsis blight	<i>Phomopsis</i> spp.	Various
Phytophthora root & crown rot	<i>Phytophthora</i> spp.	Various
Pine needle scale	<i>Chionaspis pinifoliae</i>	Pine, Spruce, Douglas-fir, Cedar
Pine tip moths	<i>Rhyacionia</i> spp.	Pine
Pinewood nematode	<i>Bursaphelenchus xylophilus</i>	Non-native Pines
Pitch canker	<i>Fusarium circinatum</i>	Pine, Douglas-fir
Poplar leaf rust	<i>Melampsora medusae</i>	Poplar, Douglas-fir, Larch, Lodepole and Ponderosa Pine
Powdery mildew	Order Erysiphales	Various

R

Red band needle blight	<i>Dothistroma septosporum</i>	Pine, Larch, Cedar, Spruce, Fir
Redhumped caterpillar	<i>Schizura concinna</i>	Sweetgum, Plum, Walnut
Rhabdocline needlecast	<i>Rhabdocline pseudotsugae</i>	Douglas-fir
Rhizosphaera needlecast	<i>Rhizosphaera</i> spp.	Spruce, Fir
Root knot nematode	<i>Meloidogyne</i> spp.	Various
Rose rosette virus	<i>Emaravirus</i>	Rose

S

San Jose scale	<i>Quadraspidiotus perniciosus</i>	<i>Prunus</i> and others
Sapsucker/Woodpecker Damage	-	Maple, Birch, and others
Seiridium blight/canker	<i>Seiridium</i> spp.	Leyland Cypress, other conifers
Shoestring root rot	<i>Armillaria</i> spp.	Various
Spongy moth	<i>Lymantria dispar</i>	Apple, Cherry, Hickory, Maple, Oak
Spotted lanternfly	<i>Lycorma delicatula</i>	Tree-of-Heaven, Grapevines, Maple, Birch

Spring cankerworm	<i>Paleacrita vernata</i>	Various
Spruce bud scale	<i>Physokermes</i> spp.	Spruce
Spruce needleminer	<i>Endothenia albolineana</i>	Spruce
Spruce spider mite	<i>Oligonychus ununguis</i>	Conifers
Stigmata needlecast	<i>Stigmata lautii</i>	Spruce
Sudden oak death	<i>Phytophthora ramorum</i>	Coast Live Oak, Coast Redwood, Tanoak
Swiss needlecast	<i>Nothophaeocryptopus gaeumannii</i>	Douglas-fir
T		
Tar spot	<i>Rhytisma</i> spp.	Maple
Tea scale	<i>Fiorinia theae</i>	Camellia, Chinese Holly, Burford Holly
Tent caterpillar	<i>Malacosoma</i> spp.	Cherry
Thousand cankers disease	<i>Geosmithia morbida</i>	Black Walnut
Thrips	Order Thysanoptera	Various
Tubakia leaf spot	<i>Tubakia</i> spp.	Oak
Two spotted spider mite	<i>Tetranychus urticae</i>	Various
Twolined chestnut borer	<i>Agrilus bilineatus</i>	Chestnut, Oak
Twolined spittlebug	<i>Prosapia bicincta</i>	Turf, Holly
V		
Verticillium wilt	<i>Verticillium</i> spp.	Various
Volutella blight	<i>Coccinonectria pachysandricola</i>	Pachysandra
W		
Wax scale	<i>Ceroplastes</i> spp.	Various
White peach scale	<i>Pseudaulacaspis pentagona</i>	Peach, Cherry
White pine weevil	<i>Pissodes strobi</i>	Pine, Spruce
Whiteflies	Various (Family Aleyrodidae)	Various