

OKLAHOMA AGRICULTURAL AND MECHANICAL COLLEGE
AGRICULTURAL EXPERIMENT STATION

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Host Index of Oklahoma Plant Diseases

By D. A. PRESTON*



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For use by gardeners and truck crop growers, the Oklahoma Agricultural Experiment Station has published Circular C-117, "Recognition and Control of Vegetable Diseases." Diseases of field crops are dealt with in Circular C-119, "Diseases of Field Crops in Oklahoma."

The host index was prepared to aid plant pathologists, crop and horticultural specialists, nursery and crop inspectors, county agents, and others who are called upon to help farmers and gardeners prevent loss of crops by plant diseases. The first step in control is to identify the organism or other cause responsible for the disease. This host index will assist in more rapid identification, by indicating what diseases are known to occur on plants in Oklahoma. Diseases of wild plants are included since in many cases the same diseases are found on both wild and cultivated hosts, and these wild host plants serve as a means of spreading the diseases.

Host Index of Oklahoma Plant Diseases

By D. A. PRESTON

Introduction

This bulletin contains, in the form of a host index, all available information on the occurrence and distribution of the 2,110 plant diseases so far recorded in Oklahoma. This total represents only a small portion of the plant diseases which are known to occur wherever plants grow.

Arrangement of Indexes

This publication is divided into three sections, each arranged alphabetically:

1. A host index in which each host plant is listed together with all the pathogens or causal agents known to occur in Oklahoma.

2. An index of pathogens or causal agents each of which is followed by the hosts upon which it has been reported in Oklahoma.

3. An index to the common names of the host plants, taken chiefly from *Standardized Plant Names*, 2nd edition, 1942.

The distribution of diseases, given by counties in the host index, merely indicates the known reports. In many cases the diseases of any given plant may actually have a more widespread distribution in the State than is shown by the reports at hand.

History of the Oklahoma Host Index

The first contribution toward a host index to plant diseases in Oklahoma was compiled by Charles C. Brown, and was issued as Mimeographed Circular No. 33 of the Oklahoma Agricultural Experiment Station in 1939. The list contained a record of 819 diseases found on various plants. In 1941 a

revision of this circular appeared, arranged by Wayne Jackson, which brought the total number of plant disease records up to 1,171. These reports were prepared under the direction of K. Starr Chester as part of Project 317 ("Oklahoma Plant Disease Problems") of the Oklahoma Agricultural Experiment Station. A supplementary list of 467 plant diseases was published in 1943 as Mimeographed Circular No. M-104, raising the number of plant disease records in the State of Oklahoma to 1,638. Since the great demand for these mimeographed lists exhausted the supply shortly after publication, it seemed advisable to make the information available in printed form.

This bulletin contains an additional 536 records of plant diseases and their causal agents found in Oklahoma. Some records (64) from Circular No. 33 have been deleted because of inaccuracy in determinations or inconclusive data, thus bringing to 2,110 the total number of plant diseases so far recorded in Oklahoma.

HOST INDEX

ACALYPHA

- A. GRACILENS A. Gray, SLENDER COPPERLEAF.
Cercospora acalyphae Peck, Leaf spot; Payne.
- A. OSTRYAEOFOLIA Riddell, HOPHORNBEAM COPPER-
LEAF.
Cercospora acalyphae Peck, Leaf spot; Payne.

ACER

- A. NEGUNDO L., BOXELDER.
Macrophoma negundinis Ell.& Ev., Leaf spot; Adair.
Valsaria allantospora Ell.& Ev.; Payne.
- A. RUBRUM L., RED MAPLE.
Phyllosticta minima (Berk.& Curt.) Ell.& Ev., Leaf
spot; Le Flore, McCurtain.
Taphrina dearnessii Jenk., Leaf blister; Le Flore.
- A. SACCHARINUM L., SILVER MAPLE.
Agrobacterium tumefaciens (E.F.Sm.& Town.) Conn,
Crown gall; Texas.
Phleospora aceris (Lib.) Sacc., Leaf spot; Oklahoma.
Rhizoctonia solani Kuhn, Damping off.
- A. SACCHARUM Marsh., SUGAR MAPLE.
Leptothyrium acerinum Ktze., Leaf spot; McCurtain.
- A. SPP., MAPLE.
Agrobacterium tumefaciens (E.F.Sm.& Town.) Conn,
Crown gall.
Armillaria mellea Vahl ex Fr., Mushroom root rot;
Oklahoma.
Cercospora sp., Leaf Spot; Payne.
Cytospora chrysosperma Pers. ex Fr., Canker; Creek.
Fomes sp., Heart rot; Payne.
Gloeosporium apocryptum Ell.& Ev., Leaf blight;
Payne.
Phoradendron flavescens (Pursh) Nutt., Mistletoe;
Haskell.
Polyporus gilvus (Schw.) Fr., Wood rot; Payne.
Rhytisma acerinum (Pers.) Fr., Tar leaf spot; Okla-
homa.
Schizophyllum commune Fr., Canker; Osage.

ACHILLEA

- A. MILLEFOLIUM L., COMMON YARROW.
Gloeosporium sp., Anthracnose; Payne.

ACNIDA

- A. TAMARISCINA (Nutt.) Wood, WATERHEMP.
Albugo bliti (Biv.) Kuntze, White rust; Kay, Payne.

ACTINEA

- A. LINEARIFOLIA (Hook.) Kuntze, FINELEAF ACTINEA.
Cuscuta indecora Choisy, Dodder; Greer.

AEGILOPS

- A. CYLINDRICA Host, JOINTED GOATGRASS.
Ascochyta sp., Leaf spot; Payne.
Puccinia graminis Pers., Stem rust; Payne.
Uromyces graminicola Burr., Rust; Payne.

AESCULUS

- A. GLABRA Willd., OHIO BUCKEYE.
Guignardia aesculi (Pk.) V.B.Stewart, Leaf blotch.
- A. HIPPOCASTANUM L., COMMON HORSECHESTNUT.
Guignardia aesculi (Pk.) V.B.Stewart, Leaf blotch;
Payne.
- A. OCTANDRA Marsh., YELLOW BUCKEYE.
Guignardia aesculi (Pk.) V.B.Stewart, Leaf blotch.
- A. PAVIA L., RED BUCKEYE.
Phyllosticta paviae Desm., Leaf spot; Tulsa.

AGROPYRON

- A. CRISTATUM (L.) Gaertn., CRESTED WHEATGRASS.
Septoria sp., Leaf spot; Woodward.
- A. DASYSTACHYUM (Hook.) Scribn., THICKSPIKE
WHEATGRASS.
Puccinia graminis Pers., Stem rust; Payne.
- A. ELONGATUM (Host) Beauv., TALL WHEATGRASS.
Colletotrichum graminicolum (Ces.) G.W.Wils.,
Anthracnose; Payne.
- A. INERME (Scribn. & Smith) Rydb., BEARDLESS BLUE-
BUNCH WHEATGRASS.
Puccinia graminis Pers., Stem rust; Payne.
- A. INTERMEDIUM (Host) Beauv.
Colletotrichum graminicolum (Ces.) G.W.Wils.,
Anthracnose; Payne.
- A. REPENS (L.) Beauv., QUACKGRASS.
Claviceps purpurea (Fr.) Tul., Ergot; Payne, Washita.
- A. SMITHII Rydb., BLUESTEM WHEATGRASS.
Claviceps purpurea (Fr.) Tul., Ergot; Osage, Payne.
Colletotrichum graminicolum (Ces.) G.W.Wils.,
Anthracnose; Payne.

AGROPYRON—Continued.

Puccinia graminis Pers., Stem rust; Payne.

Puccinia rubigo-vera agropyrina (Erikss.) Arth., Leaf rust.

- A. TRACHYCAULUM (Link) Malte, SLENDER WHEAT-GRASS.

Ascochyta agropyrina (Fairm.) Trott., Leaf spot; Payne.

Ellisiella caudata (Pk.) Sacc., Leaf spot; Payne.

Puccinia graminis Pers., Stem rust; Payne, Woodward.

Septoria sp., Leaf spot; Woodward.

- A. TRICHOPHORON (Link) Richt., STIFFHAIR WHEAT-GRASS.

Puccinia rubigo-vera tritici (Erikss. & Henn.) Carl., Leaf rust; Payne.

AGROSTIS

- A. GIGANTEA Roth., REDTOP.

Puccinia graminis Pers., Stem rust.

- A. PALUSTRIS Huds., CREEPING BENTGRASS.

Fusarium sp., Root rot; Kiowa.

- A. PERENNANS (Walt.) Tuckerm., AUTUMN BENT-GRASS.

Cercospora agrostidis Atk., Leaf spot; Cleveland.

- A. SCABRA Willd., WINTER BENTGRASS.

Claviceps purpurea (Fr.) Tul., Ergot.

- A. SP., BENTGRASS.

Rhizoctonia solani Kuhn, Brown patch; Tulsa.

AILANTHUS

- A. ALTISSIMA (Mill.) Swingle, TREEOFHEAVEN AILANTHUS.

Cercospora glandulosa Ell. & Kell., Leaf spot; Payne.

Nectria cinnabarina Tode ex Fr., Dieback; Payne.

ALBIZZIA

- A. JULIBRISSIN Durazz., SILKTREE ALBIZZIA.

Nectria cinnabarina Tode ex Fr., Dieback; Beckham, Payne.

Valsa sp., Canker; Payne.

ALLIUM

- A. CEPA L., GARDEN ONION.

Aspergillus niger van Tiegh., Black mold; Payne.

Botrytis allii M.T.Munn, Neck rot; Oklahoma, Payne.

Erwinia carotovora (Jones) Winslow et al., Soft rot; general, with collection from Tulsa.

ALLIUM—Continued.

- Fusarium mali* Taub., Pink rot; Payne.
Peronospora schleideni Ung., Downy mildew.
Sclerotium rolfsii Sacc., Southern wilt; Payne.
Stemphylium botryosum Wallr., Leaf blight.
Urocystis cepulae Frost, Smut.

ALNUS

- A. INCANA (L.) Moench, SPECKLED ALDER.
Taphrina robinsoniana Gies., Catkin hypertrophy;
 McCurtain.
 A. RUGOSA (Du Roi) Spreng., HAZEL ALDER.
Cuscuta compacta Juss., Dodder; Le Flore.
 A. SP., ALDER.
Cuscuta compacta Juss., Dodder; Le Flore.

ALOPECURUS

- A. CAROLINIANUS Walt., CAROLINA FOXTAIL.
Sclerotrichum graminis Fckl., Brown stripe; Payne.
 A. GENICULATUS L., WATER FOXTAIL.
Sclerotrichum graminis Fckl., Brown stripe; Payne.

ALTHAEA

- A. ROSEA (L.) Cav., HOLLYHOCK.
Cercospora althaeina Sacc., Leaf spot; Payne.
Endophyllum tuberculatum (Ell. & Kell.) Arth. &
 Fromme, Rust.
Heterodera marioni (Cornu) Goodey, Root knot;
 Logan.
Puccinia malvacearum Bert., Rust; general, with col-
 lections from Logan, Payne.
Septoria malvicola Ell. & Mart., Leaf spot; Payne.
 A. SP.
Nectria cinnabarina Tode ex Fr., Canker; Payne.

AMARANTHUS

- A. RETROFLEXUS L., REDROOT AMARANTH.
Albugo bliti (Biv.) Kuntze, White rust; Canadian,
 Choctaw, Payne.
Alternaria sp.; Payne.
 A. SPINOSUS L., SPINY AMARANTH.
Albugo bliti (Biv.) Kuntze, White rust; Payne.

AMARYLLIS

A. SPP., AMARYLLIS.

Botrytis cinerea Pers., Gray mold; Payne.

Colletotrichum liliacearum Ferraris, Anthracnose; Payne.

Virus, Mosaic; Payne.

AMBROSIA

A. ARTEMISIIFOLIA L., COMMON RAGWEED.

Puccinia xanthii Schw., Rust; Payne.

A. PSILOSTACHYA DC., WESTERN RAGWEED.

Cuscuta arvensis Beyrich, Dodder; Payne.

Cuscuta coryli Engelm., Dodder; Beckham.

Cuscuta cuspidata Engelm., Dodder; Cleveland.

Cuscuta indecora Choisy, Dodder; Beckham.

A. TRIFIDA L., GIANT RAGWEED.

Cercospora arcti-ambrosiae Halst., Leaf spot; Payne.

Cuscuta cuspidata Engelm., Dodder; Muskogee.

Cuscuta sp., Dodder; Texas.

Erysiphe cichoracearum DC., Powdery mildew; Ottawa, Rogers.

Plasmopara halstedii (Farl.) Berl. & De Toni, Downy mildew; Cherokee, Payne.

Puccinia xanthii Schw., Rust; Kay, Payne.

A. SP., RAGWEED.

Cuscuta obtusiflora HBK., Dodder; Cleveland.

AMORPHA

A. CANESCENS Pursh, LEADPLANT AMORPHA.

Uropyxis amorphae (Curt.) Schroet., Rust; Osage, Payne.

A. FRUTICOSA L., INDIGOBUSH AMORPHA.

Cylindrosporium passaloroides (Wint.) Gilm. & Arch., Leaf spot; Payne.

Uropyxis amorphae (Curt.) Schroet., Rust; Payne.

AMPELOPSIS

A. ARBOREA (L.) Koehne, PEPPERVINE.

Cuscuta gronovii Willd., Dodder; Muskogee.

ANCHUSA

A. MYOSOTIDIFLORA Lehm., HEARTLEAF BRUNNERA.

Heterodera marioni (Cornu) Goodey, Root knot; Oklahoma.

ANDROPOGON

- A. FURCATUS Muhl., BIG BLUESTEM.
Cerebella andropogonis Ces., Blackhead: False smut;
 Carter, Lincoln, Pawnee, Payne, Pittsburg.
Claviceps purpurea (Fr.) Tul., Ergot; Carter.
Ellisiella caudata (Pk.) Sacc., Leaf spot; Payne.
Phyllachora luteo-maculata (Schw.) Orton, Black
 spot; Payne.
Puccinia andropogonis Schw., Leaf rust; Payne.
Puccinia tripsaci Diet.& Holw., Leaf rust.
Septoria andropogonis J.J.Davis, Leaf spot.
Sorosporium ellisii Wint., Head smut; Osage, Payne.
Sphacelotheca occidentalis (Seym.) Clinton, Kernel
 smut; Payne.
Stagonospora ischaemi Sacc.; Payne.
- A. GLOMERATUS (Walt.) B.S.P., BUSHY BLUESTEM.
Puccinia andropogonis Schw., Leaf rust.
- A. HALLII Hack., SAND BLUESTEM.
Claviceps purpurea (Fr.) Tul., Ergot; Payne.
Ellisiella caudata (Pk.) Sacc., Leaf spot; Payne.
Stagonospora ischaemi Sacc.; Cleveland.
- A. ISCHAEMUM L., EASTINDIES BLUESTEM.
Cerebella andropogonis Ces., Blackhead: False smut;
 Payne.
- A. SACCHAROIDES Swartz, SILVER BLUESTEM.
Cerebella andropogonis Ces., Blackhead: False smut;
 Lincoln, Payne.
Helminthosporium sp., Leaf spot; Payne.
Phyllachora luteo-maculata (Schw.) Orton, Black
 spot; Lincoln, Oklahoma, Payne, Seminole, Tulsa.
Ustilago sp., Smut; Payne.
- A. SCOPARIUS Michx., LITTLE BLUESTEM.
Cerebella andropogonis Ces., Blackhead: False smut;
 Lincoln, Payne, Pittsburg.
Claviceps purpurea (Fr.) Tul., Ergot; Payne.
Colletotrichum graminicolum (Ces.) G.W.Wils.,
 Anthracnose; Payne, Woodward.
Ellisiella caudata (Pk.) Sacc., Leaf spot; Payne.
Phyllachora luteo-maculata (Schw.) Orton, Black
Phyllachora luteo-maculata (Schw.) Orton, Black
 spot; Payne.
Puccinia andropogonis Schw., Rust; Payne.
Puccinia ellisiana Thum., Rust; Osage, Payne.
Sphacelotheca occidentalis (Seym.) Clinton, Kernel
 smut; Lincoln, Payne.

ANDROPOGON—Continued.

- A. TERNARIUS Michx.
Cerebella andropogonis Ces., Blackhead: False smut;
 Payne, Pittsburg.
Ellisiella caudata (Pk.) Sacc., Leaf spot; Mayes.
Puccinia andropogonis Schw., Leaf rust; Payne, Pittsburg.
- A. VIRGINICUS L., YELLOWSEDGE BLUESTEM:
 BROOMSEDGE.
Puccinia andropogonis Schw., Leaf rust.
- A. SP., BLUESTEM.
Erysiphe graminis DC., Powdery mildew; Mayes.

ANTENNARIA

- A. PLANTAGINIFOLIA (L.) Richards., PLANTAINLEAF
 PUSSYTOES.
Albugo tragopogonis (Pers.) S.F.Gray, White, rust;
 Payne.

ANTHURIUM

- A. ANDRAEANUM Lind., FLAMINGO ANTHURIUM.
Gloeosporium minutum, Anthracnose; Payne.
- A. ANDRAEANUM var. GIGANTEUM, GIANT FLAMINGO
 ANTHURIUM.
Gloeosporium minutum, Anthracnose; Payne.

ANTIRRHINUM

- A. MAJUS L., COMMON SNAPDRAGON.
Botrytis sp., Blight; Oklahoma.
Fusarium sp., Wilt; Tulsa.
Heterodera marioni (Cornu) Goodey, Root knot;
 Lincoln, Tulsa.
Peronospora antirrhini Schroet., Downy mildew;
 Oklahoma.
Phytophthora cryptogea Pethyb. & Laff., Damping
 off; Oklahoma, Payne.
Puccinia antirrhini Diet. & Holw., Rust; Payne.
Rhizoctonia solani Kuhn, Damping off; Oklahoma.
Verticillium alboatrum Reinke & Berth., Wilt;
 Comanche.
Virus, Ringspot; Payne.
Nonparasitic, Fasciation; Payne.
Nonparasitic, Tip blight; Oklahoma.

APIUM

- A. GRAVEOLENS var. DULCE DC., GARDEN CELERY.
Cercospora apii Fres., Early blight; Payne.
Septoria apii (B.& C.) Chester, Late blight; general
 with collections from Creek, Payne.
Virus, Celery mosaic; Payne.

APLOPAPPUS

- A. CILIATUS (Nutt.) DC., ROSINWEED.
Cicinnobolus cesatii DeBy., Parasitic on
Erysiphe cichoracearum DC. on living leaves; Payne.
Cuscuta arvensis Beyrich, Dodder; Pottawatomie.
Cuscuta cuspidata Engelm., Dodder; Jackson,
 Pottawatomie.
Erysiphe cichoracearum DC., Powdery mildew; Payne.
Septoria sp., Leaf spot; Okmulgee, Payne.
- A. IDIVARICATUS (Nutt.) A. Gray, GOLDENWEED.
Cuscuta cuspidata Engelm., Dodder; Kiowa.

APOCYNUM

- A. ANDROSAEMIFOLIUM L., SPREADING DOGBANE.
Cylindrosporium apocyni Ell.& Ev., Leaf spot; Hughes.
- A. CANNABINUM L., HEMP DOGBANE.
Cylindrosporium apocyni Ell.& Ev., Leaf spot; Payne.
Phyllosticta apocyni Trel., Leaf spot; Payne.
- A. SIBIRICUM Jacq., PRAIRIE DOGBANE: INDIAN
 HEMP.
Puccinia seymouriana Arth., Rust.

AQUILEGIA

- A. SP., COLUMBINE.
Heterodera marioni (Cornu) Goodey, Root knot;
 Tulsa.
Sclerotium rolfsii Sacc., Southern wilt; Tulsa.

ARABIS

- A. LAEVIGATA (Muhl.) Poir., SMOOTH ROCKCRESS.
Albugo candida (Pers. ex Lev.) Kuntze, White rust;
 Comanche.

ARACHIS

- A. HYPOGAEA L., PEANUT.
Botrytis sp.
Cercospora arachidicola Hori, Leaf spot; Hughes,
 Payne.

ARACHIS—Continued.

Cercospora personata (Berk. & Curt.) Ell. & Ev., Leaf spot; Carter, Hughes, Johnston, Okfuskee, Okmulgee, Payne, Pontotoc.

Diplodia frumenti Ell. & Ev., Stem rot; Okmulgee, Payne.

Fusarium sp., Root rot; Okfuskee.

Rhizoctonia solani Kuhn, Root rot; general with collections from Carter, Hughes, Johnston, Okfuskee, Okmulgee.

Sclerotium bataticola Taub., Charcoal rot; Okmulgee.

Sclerotium rolfsii Sacc., Stem rot; Choctaw.

ARGEMONE

A. MEXICANA L., MEXICAN PRICKLEPOPPY.

Septoria argemones Tharp, Leaf spot; Cherokee, Garfield.

ARISAEMA

A. ATRORUBENS (Ait.) Blume., COMMON JACKIN-PULPIT.

Uromyces caladii (Schw.) Farl., Rust; Adair.

A. DRACONTIUM (L.) Schott, DRAGONROOT JACKIN-THEPULPIT.

Uromyces caladii (Schw.) Farl., Rust; Delaware, Muskogee, Osage, Payne.

ARISTIDA

A. BASIRAMEA Engelm., FORKTIP THREEAWN.

Uromyces peckianus Farl., Rust.

A. CURTISSII (A. Gray) Nash, CURTISS THREEAWN.

Ellisiella caudata (Pk.) Sacc., Leaf spot; Adair.

Uromyces peckianus Farl., Rust; Payne.

A. DESMANTHA Trin. & Rupr., CURLY THREEAWN.

Uromyces peckianus Farl., Rust.

A. DICHOTOMA Michx., CHURCHMOUSE THREEAWN.

Colletotrichum graminicolum (Ces.) G.W. Wils., Anthracnose; Adair.

A. LONGESPICA Poir., SLIMSPIKE THREEAWN.

Tilletia oklahomae Zundel, Kernel smut; Oklahoma.

Uromyces peckianus Farl., Rust; Cherokee.

A. OLIGANTHA Michx., PRAIRIE THREEAWN.

Uromyces peckianus Farl., Rust; Logan, Payne.

A. PURPURASCENS Poir., ARROWFEATHER THREEAWN.

Hendersonia effusa Berk. & Curt.; Delaware.

A. PURPUREA Nutt., PURPLE THREEAWN.

Gloeosporium sp., Leaf & stem spot; Payne.

ARMORACIA

- A. RUSTICANA Gaertn., HORSERADISH.
Albugo candida (Pers. ex Lev.) Kuntze, White rust.
Erwinia carotovora (Jones) Winslow et al., Soft rot;
 Grant.
Heterodera marioni (Cornu) Goodey, Root knot;
 Payne.

ARONIA

- A. SP., CHOKEBERRY.
Phyllosticta arbutifolia Ell. & Mart., Leaf spot; Okla-
 homa.

ARTEMISIA

- A. GNAPHALODES Nutt., CUDWEED SAGEBRUSH.
Puccinia absinthii (Hedw.) DC., Rust.
 A. LUDOVICIANA Nutt., LOUISIANA SAGEBRUSH.
Lasiochaeria sp., Leaf spot; Payne.
Puccinia millefolii Fckl., Rust.
 A. MEXICANA Willd., MEXICAN SAGEBRUSH.
Cuscuta arvensis Beyrich, Dodder; Muskogee.

ARUNDINARIA

- A. GIGANTEA (Walt.) Chapm., GIANT CANE.
Didymella eumorpha (Berk. & Curt.) Sacc.; McCurtain.
Puccinia arundinariae Schw., Leaf rust; McCurtain.

ARUNDO

- A. DONAX L., GIANTREED.
Scolecotrichum maculicola Ell. & Kell., Leaf spot;
 Payne.

ASCLEPIAS

- A. SPECIOSA Torr., SHOWY MILKWEED.
Cercospora clavata (Gerard) Cke., Leaf spot; Payne.
 A. TUBEROSA L., BUTTERFLY MILKWEED.
Puccinia bartholomaei Diet., Rust.

ASCLEPIODORA

- A. DECUMBENS (Nutt.) A. Gray, SPIDER ANTHELOPE-
 HORN.
Phyllosticta tuberosa Ell. & Mart., Leaf spot; Murray.
Puccinia bartholomaei Diet., Rust.

ASCLEPIODORA—Continued.

- A. VIRIDIS (Walt.) A.Gray, OBLONGLEAVED MILK-WEED.

Alternaria fasciculata (Cke.& Ell.) Jones & Grout,
Leaf spot; Payne.

Puccinia bartholomaei Diet., Rust; Murray, Payne.

ASPARAGUS

- A. OFFICINALIS L., GARDEN ASPARAGUS.

Alternaria fasciculata (Cke.& Ell.) Jones & Grout,
Leaf spot; Payne.

Cercospora asparagi Sacc., Leaf spot; Payne.

Erwinia carotovora (Jones) Winslow et al., Soft rot;
general.

Puccinia asparagi DC., Rust; Logan, Payne.

ASPIDISTRA

- A. ELATIOR Blume, COMMON ASPIDISTRA.

Colletotrichum omnivorum Hals., Anthracnose; Payne.

ASTER

- A. DRUMMONDII Lindl., DRUMMOND ASTER.

Puccinia asteris Duby, Rust; Payne.

Septoria asterina Tharp, Leaf spot; Payne.

- A. ERICOIDES L., HEATH ASTER.

Cuscuta indecora Choisy, Dodder; McClain.

Erysiphe cichoracearum DC., Powdery mildew; Payne.

- A. SALICIFOLIUS Ait., WILLOWLEAF ASTER.

Erysiphe cichoracearum DC., Powdery mildew; Payne.

ASTRAGALUS

- A. CICER L.

Cercospora astragali Woronichin, Leaf spot; Payne.

- A. MEXICANUS DC., GROUND PLUM.

Cercosporidium sp., Leaf spot; Choctaw.

AVENA

- A. SATIVA L., COMMON OAT.

Colletotrichum graminicolum (Ces.) G.W.Wils., An-
thracnose; Choctaw, Grady, Payne.

Gibberella zeae (Schw.) Petch, Scab; Payne.

Helminthosporium sativum Pam., King, & Bakke, Foot
with collection from Delaware.

Helminthosporium sativum Pam., King, & Bakke, Foot
rot; Payne.

Pseudomonas coronafaciens (Ell.) Stapp, Halo blight;
Comanche, Delaware, Payne.

AVENA—Continued.

Puccinia coronata Cda., Crown rust; general with collections from Canadian, Choctaw, Delaware, Garfield, Kingfisher, Payne.

Puccinia graminis avenae Eriks.& Henn., Stem rust; general with collections from Bryan, Delaware, Garfield, Payne.

Ustilago avenae (Pers.) Rostr., Loose smut; general with collections from Payne, Wagoner.

Ustilago kolleri Wille, Covered smut; general.

Nonparasitic, Blast.

AXONOPUS

- A. COMPRESSUS (Swartz) Beauv., TROPICAL CARPET-GRASS.

Stagonospora sp.; Caddo.

BACOPA

- B. SP., WATERHYSSOP.

Cuscuta arvensis Beyrich, Dodder; Washington.

BAPTISIA

- B. AUSTRALIS (L.) R.Brown, BLUE WILDINDIGO.

Puccinia andropogonis onobrychidis (Burr.) Arth., Rust; Payne.

- B. BRACTEATA (Muhl.) Ell., CREAM WILDINDIGO.

Puccinia andropogonis onobrychidis (Burr.) Arth., Rust; Payne.

BELAMCANDA

- B. CHINENSIS (L.) DC., BLACKBERRYLILY.

Heterosporium iridis (Faut.& Roum.) Jacq., Leaf spot; Payne.

BERBERIS

- B. MENTORENSIS L.M.Ames, MENTOR BARBERRY.

Phyllosticta berberidis Rabh., Leaf spot; Payne.

- B. THUNBERGII DC., JAPANESE BARBERRY.

Phyllosticta japonica Thum., Leaf Spot; Payne.

BETA

- B. VULGARIS L., COMMON BEET.

Cercospora beticola Sacc., Leaf spot; Cherokee, Payne, Seminole, Tulsa.

Heterodera marioni (Cornu) Goodey, Root knot; Beckham, Ellis, Harmon, Seminole.

BETA—Continued.

Phoma betae (Oud.) Frank, Damping off; Seminole.
Septoria betae West., Leaf spot; Payne.

- B. VULGARIS var. CICLA L., SWISS CHARD.
Cercospora beticola Sacc., Leaf spot; Payne.

BETULA

- B. NIGRA L., RIVER BIRCH.
Gloeosporium betularum Ell.& Mart., Leaf spot; Le Flore.
Phyllosticta betulina Sacc., Leaf spot; Tulsa.
Polyporus hirsutus Wulf ex Fr., Wood rot; Atoka.
Stereum rameale Schw., Trunk rot; Atoka.
- B. PAPYRIFERA Marsh., PAPER BIRCH.
Gloeosporium betularum Ell.& Mart., Leaf spot; Muskogee.

BOLTONIA

- B. DIFFUSA Ell., PANICLED BOLTONIA.
Guidnardia boltoniae Dearn.& Barth., Anthracnose; Cotton.
Macrophoma boltoniae Dearn.; Cotton.
Phoma boltoniae Dearn.; Cotton.
Septoria erigerontis var. *boltoniae* Webber, Leaf spot; Muskogee.
- B. LATISQUAMA A.Gray, VIOLET BOLTONIA.
Septoria erigerontis var. *boltoniae* Webber, Leaf spot; Craig.

BOUTELOUA

- B. CURTIPENDULA (Michx.) Torr., SIDEOATS GRAMA.
Ascochyta sp., Leaf spot; Payne.
Phyllachora boutelouae Rehm, Black spot; Payne.
Puccinia bartholomaei Diet., Rust; Carter, Okfuskee, Payne, Stephens.
Puccinia boutelouae (Jennings) Holw., Rust; Carter, Osage, Pawnee, Payne.
Puccinia vexans Farl., Rust; Woodward.
Sclerotium bataticola Taub., Charcoal rot; Oklahoma.
Septoria sp., Leaf spot; Woodward.
Stagonospora arenaria Sacc., Leaf spot; Payne.
- B. GRACILIS (HBK.) Lag., BLUE GRAMA.
Ascochyta sp., Leaf spot; Payne.
Claviceps purpurea (Fr.) Tul., Ergot; Payne.
Septoria sp., Leaf spot; Payne.
Ustilago boutelouae Kell.& Swingle, Smut; Garfield, Kiowa, Osage, Payne, Woodward.

BOUPELOUA—Continued.

- B. HIRSUTA Lag., HAIRY GRAMA.
Ustilago boupe louae Kell. & Swingle, Smut; Payne.
- B. RIGIDISETA (Steud.) Hitchc., TEXAS GRAMA.
Ascochyta sp., Leaf spot; Payne.

BRASSICA

- B. JUNCEA (L.) Cosson, MUSTARD.
Albugo candida (Pers. ex Lev.) Kuntze, White rust; Payne, Seminole.
Erwinia carotovora (Jones) Winslow et al., Soft rot; Oklahoma.
- B. OLERACEA var. BOTRYTIS L., CAULIFLOWER.
Alternaria circinans (Berk. & Curt.) Bolle, Black leaf spot; Payne.
Xanthomonas campestris (Pam.) Dowson, Black rot; general with collections from Alfalfa, Tulsa.
- B. OLERACEA var. CAPITATA L., CABBAGE.
Alternaria circinans (Berk. & Curt.) Bolle, Black leaf spot; McCurtain, McIntosh, Payne, Tulsa.
Erwinia carotovora (Jones) Winslow et al., Soft rot; general with collection from Seminole.
Fusarium oxysporum f. *conglutinans* (Wr.) Snyder & Hansen, Yellows; general with collections from Cleveland, Kay, Lincoln, Logan, Muskogee, Payne, Seminole.
Heterodera marioni (Cornu) Goodey, Root knot; Oklahoma.
Peronospora parasitica (Pers.) Fr., Downy mildew; McCurtain, McIntosh, Muskogee, Tulsa.
Phoma lingam (Tode) Desm., Black leg; Payne, Seminole.
Plasmodiophora brassicae Wor., Club root.
Xanthomonas campestris (Pam.) Dowson, Black rot; general with collections from McIntosh, Payne, Seminole.
- B. RAPA L. TURNIP.
Albugo candida (Pers. ex Lev.) Kuntze, White rust.
Cercospora albomaculans (Ell. & Ev.) Sacc., Leaf spot; general with collection from Payne.
Colletotrichum higginsianum Sacc., Leaf spot; Seminole.
Erwinia carotovora (Jones) et al., Wet rot; Soft rot; Rogers.
Erysiphe polygoni DC., Powdery mildew; Seminole.
Heterodera marioni (Cornu) Goodey, Root knot; Logan, Tulsa.

BRASSICA—Continued.

B. SP.

Albugo candida (Pers. ex Lev.) Kuntze, White rust;
Okmulgee.

BROMUS

- B. CARINATUS Hook. & Arn., MOUNTAIN BROME.
Colletotrichum graminicolum (Ces.) G.W. Wils.,
Anthracnose; Payne.
Septoria bromi Sacc., Leaf spot; Payne.
- B. CATHARTICUS Vahl, RESCUE BROME.
Erysiphe graminis DC., Powdery mildew; Payne.
Ustilago bullata Berk., Head smut; Alfalfa, Garfield.
- B. COMMUTATUS Schrad., HAIRY BROME.
Ascochyta sp., Leaf spot; Payne.
Phomopsis sp., Payne.
Puccinia graminis Pers., Stem rust; Payne.
Puccinia rubigo-vera agropyri (Erikss.) Arth., Leaf
rust; Payne.
Septoria bromi Sacc., Leaf spot; Grady, Payne.
- B. INERMIS Leyss., SMOOTH BROME.
Ascochyta sp., Leaf spot; Payne.
Helminthosporium leersii Atk., Leaf spot; Payne.
Phyllosticta sp., Leaf spot; Payne.
Ustilago bullata Berk., Head smut; Garfield, Oklahoma.
- B. PURGANS L., CANADA BROME.
Ascochyta sp., Leaf spot; Comanche.
Cercospora sp., Leaf spot; Payne.
Septoria bromi Sacc., Leaf spot; Payne.
- B. SECALINUS L., CHESS BROME.
Puccinia graminis Pers., Stem rust; Payne.
Septoria bromi Sacc., Leaf spot; Canadian, Comanche.
- B. TECTORUM L., CHEATGRASS BROME.
Pleospora sp., Leaf spot; Payne.
- B. TEXENSIS (Shear) Hitchc., TEXAS BROME.
Septoria bromi Sacc., Leaf spot; Choctaw.
- B. SP., BROME.
Septoria nodorum Berk., Glume blotch; Payne.

BROUSSONETIA

- B. PAPHYRIFERA (L.) Vent., COMMON PAPERMUL-
BERRY.
Nectria cinnabarina Tode ex Fr., Dieback; Murray.

BUCHLOE

- B. DACTYLOIDES (Nutt.) Engelm., BUFFALOGRASS.
Anguillulina agrostis (Steinburg) Goodey, Gall
nematode; Payne, Woodward.

BUCHLOE—Continued.

- Cercospora seminalis* Ell.& Ev., Seed blight; Payne.
Erysiphe graminis DC., Powdery mildew; Payne.
Helminthosporium turcicum Pass., Leaf blight; Payne.
Phyllachora boutelouae Rehm, Black spot; Payne.
Puccinia kansensis Ell.& Barth., Rust; Payne.

BUMELIA

- B. LANUGINOSA (Michx.) Pers., GUM BUMELIA:
 WOOLYBUCKET BUMELIA.
Phyllosticta bumeliifolia Heald & Wolf, Leaf spot;
 Adair, Cherokee, Kingfisher, Murray, Muskogee,
 Payne, Pittsburg.

BUXUS

- B. SEMPERVIRENS L., COMMON BOX.
Phoma conidiogena Schnegg, Leaf tip blight;
 Oklahoma.

CACALIA

- C. TUBEROSA Nutt., INDIAN PLANTAIN.
Septoria cacaliae Ell.& Kell., Leaf spot; Pawnee.

CALAMOVILFA

- C. GIGANTEA (Nutt.) Scribn.& Merr., BIG SANDREED.
Ascochyta sp., Anthracnose; Payne.
Puccinia amphigena Diet., Rust; Logan, Woods.
 C. LONGIFOLIA (Hook.) Scribn., PRAIRIE SANDREED.
Puccinia amphigena Diet., Rust.

CALLICARPA

- C. AMERICANA L., AMERICAN BEAUTYBERRY:
 FRENCH MULBERRY.
Cercospora callicarpae Cke., Leaf spot; Le Flore, Payne.
 C. DICHOTOMA (Lour.) K.Koch, PURPLE BEAUTY-
 BERRY.
Didymella sp.; Payne.

CALLIRHOE

- C. DIGITATA Nutt., FINGER POPPYMALLOW.
Puccinia schedonnardi Kell.& Swingle, Rust.
 C. INVOLUCRATA (T.& G.) Gray, LOW POPPYMALLOW.
Endophyllum tuberculatum (Ell.& Kell.) Arth. &
 Fromme, Rust; Cleveland.
Phyllosticta sp., Leaf spot; Murray.
Puccinia schedonnardi Kell.& Swingle, Rust.

CALLISTEPHUS

- C. CHINENSIS (L.) Nees, COMMON CHINA-ASTER.
Rhizoctonia solani Kuhn, Root rot; Muskogee.

CAMELINA

- C. MICROCARPA Andrz., LITTLEPOD FALSEFLAX.
Albugo candida (Pers. ex Lev.) Kuntze, White rust;
Garfield, Logan.
- C. SATIVA (L.) Crantz, BIGSEED FALSEFLAX.
Albugo candida (Pers. ex Lev.) Kuntze, White rust;
Kingfisher.

CAMELLIA

- C. JAPONICA L., COMMON CAMELLIA.
Hendersonia maculans (Cda.) Lev.; Oklahoma.
Macrosporium camelliae Cke. & Mass., Leaf spot;
Oklahoma.

CANNA

- C. INDICA L., INDIA CANNA.
Bacterium cannae Bryan, Bacterial bud blight; Beck-
ham.

CAPSELLA

- C. BURSA-PASTORIS (L.) Medic., SHEPHERDSPURSE.
Albugo candida (Pers. ex Lev.) Kuntze, White rust;
Kay, Logan, Payne.
Peronospora parasitica (Pers.) Fr., Downy mildew;
Payne.

CAPSICUM

- C. FRUTESCENS L., PEPPER.
Alternaria solani (Ell. & Mart.) Jones & Grout, Fruit
rot; general with collections from Payne, Woodward.
Bacterium solanacearum E. F. Sm., Bacterial wilt;
Payne.
Cercospora capsici Heald & Wolf, Leaf & fruit spot;
Creek, Tulsa.
Fusarium sp., Fruit rot; general with collections from
Payne, Woodward.
Glomerella cingulata (Ston.) Spauld. & Schrenk,
Anthracnose; Payne.
Xanthomonas vescicatoria (Doidge) Dowson, Bacterial
leaf spot; Payne, Tulsa.
Solanum virus 2, Mosaic; Payne.

CARAGANA

- C. ARBORESCENS Lam., SIBERIAN PEASHRUB.
Agrobacterium rhizogenes (Riker et al.) Conn, Hairy root.

CAREX

- C. BICKNELLII Britton, BICKNELL SEDGE.
Puccinia extensicola erigerontis Arth., Rust.
- C. GRAVIDA Bailey.
Colletotrichum sp.
=*(Vermicularia caricina* (Ell.& Ev.), Anthracnose;
Cimarron.
Puccinia extensicola erigerontis Arth., Rust; Kiowa.
- C. VULPINOIDEA Michx., FOX SEDGE.
Puccinia extensicola erigerontis Arth., Rust.

CARPINUS

- C. CAROLINIANA Walt., AMERICAN HORNBEAM.
Pezicula carpinea (Pers.) Tul., Bark canker; McCurtain.
Phyllosticta sp., Leaf spot; Delaware.

CARTHAMUS

- C. TINCTORIUS L., SAFFLOWER.
Septoria sp., Leaf spot; Payne.

CARYA

- C. ALBA (L.) K.Koch, MOCKERNUT HICKORY.
Clitocybe parasitica Wilcox, Root rot.
- C. CORDIFORMIS (Wang.) K.Koch, BITTERNUT HICKORY.
Diplodia caryogena Ell.& Ev., Leaf spot; Payne.
Sphaeropsis linearis Pk., Leaf spot; Payne.
- C. GLABRA (Mill.) Sweet, PIGNUT HICKORY.
Gnomonia caryae Wolf, Anthracnose.
- C. ILLINOENSIS (Wang.) K.Koch, PECAN.
Agrobacterium tumefaciens (E.F.Sm.& Town.) Conn, Crown gall; general with collection from Oklahoma.
Cercospora fusca Rand, Brown leaf spot; Johnston, Muskogee, Payne.
Cercospora halstedii Ell.& Ev., Leaf blotch; Payne.
Cercospora caryigena (Ell.& Ev.) Hohn., Downy spot; Carter, Jefferson, Johnston, Lincoln, Okfuskee, Payne, Tulsa, Washington.
Cladosporium effusum (Wint.) Dem., Scab; Bryan, Carter, Muskogee, Okfuskee, Oklahoma, Okmulgee, Payne, Pottawatomie, Wagoner.

CARYA—Continued.

- Elsinoe randii* Jenkins & Bit., Nursery blight; Carter, Lincoln, Payne.
Glomerella cingulata (Ston.) Spauld. & Schrenk, Pink rot: Anthracnose; Oklahoma.
Heterodera marioni (Cornu) Goodey, Root knot; Tulsa.
Leptothyrium nervisedum Cole, Vein spot; Carter, Jefferson, Johnston, Muskogee, Washington.
Mycosphaerella caryigena Demaree & Cole, Downy spot; Muskogee, Okmulgee.
Myxosporium sp., Leaf spot; Payne.
Phoma sp., Blight; Grady, Payne.
Phoradendron flavescens (Pursh) Nutt., Mistletoe; general.
Schizophyllum commune Fr., Heart rot; Payne.
Virus, Bunch disease.
Nonparasitic, Rosette; general with collections from Payne, Wagoner.
- C. OVATA (Mill.) K.Koch, SHAGBARK HICKORY.
Phyllosticta caryae Pk., Leaf spot; Murray.
Sphaeropsis linearis Pk., Leaf spot; Le Flore.
- C. TEXANA C. DC., BLACK HICKORY: BITTER PECAN.
Microstroma juglandis (Bereng.) Sacc., Leaf spot; Payne.

CASTANEA

- C. PUMILA (L.) Mill., ALLEGANY CHINKAPIN.
Marssonina ochroleuca (B. & C.) Humph., Leaf spot; Payne.
Phytophthora cambivora (Petri) Buis., Root rot; Le Flore.
- C. SP., CHESTNUT.
Marssonina ochroleuca (B. & C.) Humph., Leaf spot; Payne.

CATALPA

- C. BIGNONIOIDES Walt., SOUTHERN CATALPA.
Cercospora catalpae Wint., Leaf spot; Stephens.
- C. SPECIOSA Warder, NORTHERN CATALPA.
Alternaria catalpae (Ell. & Mart.) Parker, Leaf spot; Payne.
Heterodera marioni (Cornu) Goodey, Root knot; Tulsa.
Phyllosticta catalpae Ell. & Mart., Leaf spot; Payne.
Sclerotium bataticola Taub., Charcoal rot; Payne.
Sporidesmium capsularum Thum.; Payne.

CELOSIA

- C. ARGENTEA L., FEATHER COCKSCOMB.
Cercospora celosiae Sydow, Leaf spot; Payne.
- C. SP., COCKSCOMB.
Fusarium sp., Wilt; Garfield, Kiowa.

CELTIS

- C. OCCIDENTALIS L., COMMON HACKBERRY.
Cercospora celtidis (Ell. & Kell.) Davis, Leaf spot; Oklahoma, Payne.
Cylindrosporium defoliatum Heald & Wolf, Leaf blight; Payne.
Phyllosticta celtidis Ell. & Ev., Leaf spot; Payne.
Phymototrichum omnivorum (Shear) Dug., Root rot.
Valsa celtidis Cke., Wood rot; Payne.
- C. RETICULATA Torr., NETLEAF HACKBERRY.
Cylindrosporium defoliatum Heald & Wolf, Leaf spot; Payne.
- C. SPP., HACKBERRY.
Stereum purpureum Pers. ex Fr., Silver leaf.
Uncinula parvula Cke. & Pk., Powdery mildew; Payne.

CENCHRUS

- C. PAUCIFLORUS Benth., MAT SANDBUR.
Puccinia cenchri Diet. & Holw., Rust.
Sorosporium syntherismae (Pk.) Farl., Smut; Texas, Woodward.

CENTAUREA

- C. AMERICANA Nutt., BASKETFLOWER CENTAUREA.
Puccinia irrequisita Jacks., Rust; McCurtain, Murray.
Septoria centaureicola var. *brevispora* Pk., Leaf spot; Murray.
- C. CYANUS L., CORNFLOWER.
Septoria cyani Holl., Leaf spot; Payne.

CEPHALANTHUS

- C. OCCIDENTALIS L., COMMON BUTTONBUSH.
Cercospora perniciosa Heald & Wolf, Leaf blight.
Ramularia cephalanthi Ell. & Kell., Leaf spot; Payne.

CERATOSTIGMA

- C. PLUMBAGINOIDES Bunge, BLUE CERATOSTIGMA.
Phyllosticta larpentae Tassi, Leaf spot; Payne.

CERCIS

- C. CANADENSIS L., EASTERN REDBUD.
Alternaria sp., Leaf spot; Delaware, Payne.
Cercospora cercidis Ray, Leaf spot; McCurtain, Murray,
 Muskogee, Payne.
Discosia artocreas Tode ex Fr., Leaf spot; Murray,
 Payne.
Mycosphaerella cercidicola (Ell.& Kell.) Wolf, Leaf
 spot; Payne.
Pestalotia sp., Leaf spot; Murray, Payne.
Phyllosticta cercidicola Ell.& Ev., Leaf spot; Payne.

CHAENOMELES

- C. LAGENARIA (Lois.) Koidz., FLOWERINGQUINCE.
Fusicladium pirinum (Lib.) Fekl., Scab ;Tulsa.

CHEIRANTHUS

- C. CHEIRI L., COMMON WALLFLOWER.
Heterosporium sp., Leaf spot; Payne.

CHENOPODIUM

- C. ALBUM L., LAMBSQUARTERS GOOSEFOOT.
Cercospora dubia (Riess) Wint., Leaf spot; Payne.
Peronospora effusa (Grev.) Rabh., Downy mildew;
 Payne.
Puccinia aristidae Tr., Rust; McCurtain.
 C. HYBRIDUM L., MAPLELEAF GOOSEFOOT.
Cercospora anthelmintica Atk., Leaf spot; Payne.
Cercospora dubia (Riess) Wint., Leaf spot; Payne.
 C. SP., GOOSEFOOT.
Peronospora sp., Downy mildew; Payne.

CHIONANTHUS

- C. VIRGINICA L., WHITE FRINGETREE.
Cercospora chionanthi Ell.& Ev., Leaf spot; Payne.

CHLORIS

- C. VERTICILLATA Nutt., TUMBLE WINDMILLGRASS.
Colletotrichum graminicolum (Ces.) G.W.Wils.,
 Anthracnose; Muskogee.
Puccinia chloridis Speg., Leaf rust; Payne.

CHRYSANTHEMUM

- C. FRUTESCENS, MARGUERITE CHRYSANTHEMUM.
Septoria sp., Leaf spot; Payne.
- C. MAXIMUM Ram., PYRENEES CHRYSANTHEMUM.
Cercospora chrysanthemi Heald & Wolf, Leaf spot; Payne.
- C. MORIFOLIUM Ram., FLORISTS CHRYSANTHEMUM.
Puccinia chrysanthemi Roze, Rust; Payne.
- C. SPP., CHRYSANTHEMUM.
Alternaria sp., Leaf blight; Oklahoma.
Erwinia carotovora (Jones) Winslow et al., Soft rot; Oklahoma.
Fusarium oxysporum f. *conglutinans* (Wr.) Snyder & Hansen, Wilt; Garfield, Payne.
Fusarium spp., Root rot; Garfield, Oklahoma, Okmulgee, Payne.
Heterodera marioni (Cornu) Goodey, Root knot; general with collections from Craig, Oklahoma.
Puccinia chrysanthemi Roze, Rust; general.
Sclerotium bataticola Taub., Charcoal rot; Payne.
Septoria chrysanthemella Sacc., Leaf spot; Oklahoma.
Septoria macrosporia Dearn., Leaf spot; Oklahoma.

CHRYSOPSIS

- C. BERLANDIERI Greene, GOLDASTER.
Puccinia grindeliae Peck, Rust.

CICUTA

- C. MACULATA L., SPOTTED WATERHEMLOCK.
Coniothyrium sp.; Murray.
Macrosporium commune Rabh., Murray.
Phyllosticta sp., Leaf spot; Murray.

CIRSIUM

- C. DISCOLOR (Muhl.) Spreng., FIELD THISTLE.
Puccinia cirsii Lasch, Rust.
- C. UNDULATUM var. MEGACEPHALUM (A.Gray) Fern., THISTLE.
Albugo tragopogonis (Pers.) S.F.Gray, White rust; Payne.
Puccinia cirsii Lasch, Rust.
Puccinia obtogens (Link) Tul., Rust; Payne.

CISSUS

- C. INCISA (Nutt.) Desmoul., IVY TREEBINE.
Aecidium mexicanum D.& H., Rust; Southern Oklahoma..

CITRULLUS

- C. VULGARIS Schrad., WATERMELON.
Colletotrichum lagenarium (Pass.) Ell.& Halst.,
 Anthracnose; general with collections from Okfuskee,
 Oklahoma, Payne, Seminole.
Diplodia sp., Diplodia rot.
Erwinia tracheiphila (E. F. Sm.) Holland, Bacterial
 wilt; Delaware, Lincoln, Seminole, Tulsa.
Fusarium oxysporum f. *niveum* (E.F.Sm.) Snyder &
 Hansen, Fusarium wilt; Beckham, Cherokee, Choctaw,
 Ellis, Grady, Grant, Haskell, Logan, Okfuskee, Okla-
 homa, Pittsburg, Tulsa, Washita.
Fusarium sp., Damping off; Tulsa.
Heterodera marioni (Cornu) Goodey, Root knot;
 Logan.
Macrosporium cucumerinum Ell.& Ev., Leaf blight;
 Seminole.
Pythium sp., Damping off; Tulsa.

CITRUS

- C. PARADISI Macfad., GRAPEFRUIT.
Glomerella cingulata (Ston.) Spauld.& Schrenk,
 Anthracnose; Canadian.
Penicillium digitatum Sacc., Green mold; Canadian.
- C. TRIFOLIATA L., HARDY ORANGE.
Diplodia natalensis Pole-Evans, Dieback; Payne.

CLADRASITIS

- C. LUTEA (Michx.) Koch, AMERICAN YELLOWWOOD.
Botryosphaeria ribis (Tode ex Fr.) Gross.& Dug., Die-
 back; Adair.
Phyllactinia corylea Pers. ex Karst., Powdery mildew;
 Payne.

CLEMATIS

- C. PITCHERI T.& G., PITCHERS CLEMATIS.
Cercospora squalidula Pk., Leaf spot; Payne.
- C. VIRGINIANA L., VIRGINSBOWER.
Cercospora squalidula Pk., Leaf spot; Payne.
Cladosporium sp., Leaf spot; Payne.
- C. SP., CLEMATIS.
Puccinia rubigo-vera agropyrina (Erikss.) Arth.,
 Rust; McCurtain.

CLEOME

- C. LUTEA Hook., YELLOW SPIDERFLOWER.
Cercospora conspicua Earle, Leaf spot; Payne.
- C. SERRULATA Pursh, BEE SPIDERFLOWER.
Cercospora conspicua Earle, Leaf spot; Woods.

CNIDOSCOLUS

- C. TEXANUS (Muell. Arg.) Small, TEXAS TREAD-SOFTLY.
Septoria jatrophae Heald & Wolf, Leaf spot; Payne.

COCCULUS

- C. CAROLINUS (L.) DC., CAROLINA MOONSEED:
CAROLINA SNAILSEED.
Cercospora cocculicola Ray, Leaf spot; Payne, Pittsburg.
Cercospora menispermi E. & H., Leaf spot.
Phyllosticta sp., Leaf spot; Payne.

COLEUS

- C. SP., COLEUS.
Heterodera marioni (Cornu) Goodey, Root knot;
Craig, Payne.

COLUTEA

- C. ARBORESCENS L., COMMON BLADDERSENNA.
Ganoderma sp., Root rot.

COMANDRA

- C. UMBELLATA (L.) Nutt., COMMON COMANDRA.
Cuscuta arvensis Beyrich, Dodder; Caddo.

COMMELINA

- C. VIRGINICA L., VIRGINIA DAYFLOWER.
Phyllosticta sp., Leaf spot; Payne.

CONVOLVULUS

- C. ARVENSIS L., EUROPEAN GLORYBIND: FIELD BINDWEED.
Cercospora tuberculella J.J.Davis, Leaf spot; Payne.
Puccinia convolvuli (Pers.) Cast., Rust; Payne.
Septoria convolvuli Desm., Leaf spot; Payne.

COREOPSIS

- C. GRANDIFLORA Hogg, BIGFLOWER COREOPSIS.
Cercospora coreopsidis Ray, Leaf spot; Payne.
- C. TINCTORIA Nutt., PLAINS COREOPSIS.
Cuscuta cuspidata Engelm., Dodder.
- C. VERTICILLATA L., THREADLEAF COREOPSIS.
Cuscuta arvensis Beyrich, Dodder; Muskogee.
Cuscuta cuspidata Engelm., Dodder; Comanche.
Cuscuta indecora Choisy, Dodder; Carter.

CORNUS

- C. ASPERIFOLIA Michx., ROUGHLEAF DOGWOOD.
Alternaria sp., Leaf spot; Payne.
Septoria cornicola Desm., Leaf spot; Payne.
- C. STOLONIFERA Michx., REDOSIER DOGWOOD.
Cylindrosporium sp., Leaf spot; Payne.
Septoria cornicola Desm., Leaf spot; Payne.

CORYDALIS

- C. SP., CORYDALIS.
Peronospora corydalidis DeBy., Downy mildew; Payne

CORYLUS

- C. AMERICANA Marsh., AMERICAN FILBERT.
Cercospora corylina Ray, Leaf spot; Payne.
- C. CORNUTA Marsh., BEAKED FILBERT.
Cercospora corylina Ray, Leaf spot; Payne.

COTINUS

- C. COGGYGRIA Scop., COMMON SMOKETREE.
Macrophoma sp., Dieback; Payne.

CRATAEGUS

- C. VIRIDIS L., GREEN HAWTHORN.
Gymnosporangium globosum Farl., Hawthorn rust; Payne.
- C. SPP., HAWTHORN.
Armillaria mellea Vahl ex Fr., Root rot.
Gymnosporangium globosum Farl., Hawthorn rust; general with collections from Payne, Tulsa.
Gymnosporangium spp., Rust; Atoka, Le Flore, McCurtain, Payne.
Phyllosticta sp., Leaf spot; Oklahoma.

CROTALARIA

- C. SPECTABILIS Roth, SHOWY CROTALARIA.
Ascochyta pisi Lib., Anthracnose; Payne.
- C. SPP., CROTALARIA.
Fusarium sp., Wilt; Payne.
Sclerotium bataticola Taub., Charcoal rot; Payne.

CROTON

- C. CAPITATUS Michx., WOOLY CROTON.
Bubakia crotonis (Cke.) Arth., Rust; Comanche, Kay.
- C. MONANTHOGYNUS Michx., SINGLE FRUITED CROTON.
Bubakia crotonis (Cke.) Arth., Rust; Comanche, Muskogee, Osage, Payne.
- C. TEXENSIS (Klotzsch) Muell. Arg., TEXAS CROTON.
Bubakia crotonis (Cke.) Arth., Rust; Payne.

CUCUMIS

- C. MELO L., MUSKMELON.
Aspergillus sp., Fruit rot; Payne.
Colletotrichum lagenarium (Pass.) Ell. & Halst., Anthracnose; general.
Erwinia carotovora (Jones) Winslow et al., Soft rot; Payne.
Erwinia tracheiphila (E.F.Sm.) Holland, Bacterial wilt; Haskell, Muskogee, Okfuskee, Seminole, Woodward.
Fusarium oxysporum f. *niveum* (E.F.Sm.) Snyder & Hansen, Fusarium wilt.
Fusarium sp., Fruit rot; Payne.
Heterodera marioni (Cornu) Goodey, Root knot; Beckham, Logan.
Macrosporium cucumerinum Ell. & Ev., Leaf blight; Okfuskee, Payne, Woodward.
Penicillium sp., Fruit rot; Payne.
Pseudoperonospora cubensis (Berk. & Curt.) Rostew., Downy mildew; Okfuskee, Oklahoma, Okmulgee.
Virus, Cucumber mosaic.
- C. SATIVUS L., CUCUMBER.
Cladosporium cucumerinum Ell. & Arth., Scab.
Colletotrichum lagenarium (Pass.) Ell. & Halst., Anthracnose.
Erwinia tracheiphila (E.F.Sm.) Holland, Wilt; Le Flore, Muskogee, Seminole, Tulsa.
Erysiphe cichoracearum DC., Powdery mildew; Oklahoma, Texas.
Fusarium sp., Wilt; Le Flore, Oklahoma.

CUCUMIS—Continued.

- Heterodera marioni* (Cornu) Goodey, Root knot;
Custer, Seminole.
Macrosporium cucumerinum Ell. & Ev., Leaf blight;
Seminole, Tulsa.
Pseudomonas lachrymans (E.F.Sm. & Bryan) Ferraris,
Angular leaf spot; Seminole.
Pseudoperonospora cubensis (Berk. & Curt.) Rostew,
Downy mildew; Adair, Payne, Tulsa.
Virus, Cucumber mosaic; Oklahoma, Payne.

CUCURBITA

- C. FOETIDISSIMA HBK., BUFFALOGOURD: MISSOURI
GOURD.
Cercospora cucurbitae Ell. & Ev.; Noble.
Erysiphe cichoracearum DC., Powdery mildew; Cleve-
land.
C. MAXIMA Duchesne, WINTER SQUASH.
Choeneophora cucurbitarum (Berk. & Rav.) Thaxter,
Blossom blight; Payne.
Erysiphe cichoracearum DC., Powdery mildew; Okla-
homa, Payne.
Heterodera marioni (Cornu) Goodey, Root knot;
general with collections from Harmon, Lincoln.
Virus, Cucumber mosaic; Payne.
C. MOSCHATA Duchesne, CUSHAW.
Choeneophora cucurbitarum (Berk. & Rav.) Thaxter,
Blossom blight; Payne.
C. PEPO L., PUMPKIN.
Erysiphe cichoracearum DC., Powdery mildew; Payne.

CUNNINGHAMIA

- C. LANCEOLATA Hook., COMMON CHINAFIR.
Cercospora sp., Leaf spot; Grady.

CYAMOPSIS

- C. TETRAGONOLOBA (L.) Taub., GUAR.
Rhizoctonia solani Kuhn, Root rot; Payne.
Virus, Mosaic; Payne.

CYCAS

- C. SP., CYCAS.
Heterodera marioni (Cornu) Goodey, Root knot; Payne.

CYCLAMEN

- C. SP., CYCLAMEN.
Cladosporium cyclaminis Massey & Tilford, Cyclamen
stunt; Lincoln, Logan, Muskogee, Tulsa.
Heterodera marioni (Cornu) Goodey, Root knot; Logan.

CYDONIA

C. OBLONGA Mill., COMMON QUINCE.

Entomosporium maculatum Lev., Leaf blight; Washington.

Erwinia amylovora (Burr.) Winslow, Fire blight; general.

Fabraea maculata (Lev.) Atk., Leaf blight; Washington.

Gymnosporangium clavipes Cke. & Pk., Orange rust; Tulsa.

CYNODON

C. DACTYLON (L.) Pers., BERMUDAGRASS.

Colletotrichum graminicolum (Ces.) G.W.Wils., Anthracnose; Payne, Seminole.

Coniosporium rhizophilum (Preuss) Sacc., Mold, Okfuskee.

Helminthosporium cynodontis Mariognoni, Leaf spot; Payne, Seminole, Tulsa.

Helminthosporium giganteum Heald & Wolf, Leaf spot; Hughes, Muskogee, Okmulgee, Payne, Seminole.

Helminthosporium sp., Leaf spot; Payne, Tulsa.

Mucilago spongiosa (Leyss.) Morg., Smothering; Garvin, Lincoln, Payne.

Physarum cinereum (Batsch) Pers., Smothering; Garvin, Payne.

Piricularia grisea (Cke.) Sacc., Leaf spot; Payne.

Puccinia cynodontis Lacr., Rust; Payne.

Rhizoctonia sp., Root rot; Payne.

Sclerospora farlowii Grif., Downy mildew; Payne.

Septoria sp., Leaf spot.

Ustilago cynodontis Henn., Loose smut; Canadian, Nowata, Oklahoma, Payne, Seminole, Wagoner.

CYPERUS

C. ESCULENTUS L., CHUFA FLATSEGE.

Puccinia canaliculata (Schw.) Lagerh., Rust; Muskogee, Payne.

C. FILICULMIS Vahl, SLENDER FLATSEGE.

Puccinia cyperi Arth., Rust; Logan, Payne.

C. PSEUDOVEGETUS Steud., SEDGE.

Puccinia cyperi Arth., Rust.

C. ROTUNDUS L., NUTGRASS FLATSEGE.

Puccinia canaliculata (Schw.) Lagerh., Rust; Payne.

C. SCHWEINITZI Torr., SCHWEINITZ FLATSEGE.

Puccinia cyperi Arth., Rust.

CYPERUS—Continued.

- C. STRIGOSUS L., STRAW-COLORED FLATSEEDGE.
Puccinia canaliculata (Schw.) Lagerh., Rust; Oklahoma.
- C. SPP.
Puccinia canaliculata (Schw.) Lagerh., Rust; Creek, Payne.
Puccinia cyperi Arth., Rust, Noble.

DACTYLIS

- D. GLOMERATA L., ORCHARDGRASS.
Colletotrichum graminicolum (Ces.) G.W.Wils., Anthracnose; Payne.
Phyllachora sp., Black spot; Payne.
Puccinia graminis Pers., Stem rust; Payne.
Scolecotrichum graminis Fekl., Brown stripe; Payne.
Septoria sp., Leaf spot; Payne.
Uromyces dactylidis Otth, Rust; Woodward.

DAHLIA

- D. SPP., DAHLIA
Bacterium solanacearum E.F.Sm., Bacterial wilt.
Cercospora sp., Leaf spot; Le Flore.
Fusarium sp., Wilt; Oklahoma.
Heterodera marioni (Cornu) Goodey, Root knot; general with collections from Carter, Oklahoma.
Penicillium sp., Storage rot; Oklahoma.
Vermicularia compacta Cke.& Ell., Anthracnose; Tulsa.
Virus, Dahlia mosaic; Payne.

DALEA

- D. ENNEANDRA Nutt., SLENDER DALEA.
Puccinia andropogonis onobrychidis (Burr.) Arth., Rust; Payne.

DATURA

- D. METELOIDES DC., SACRED DATURA.
Alternaria crassa (Sacc.) Rands, Leaf spot; Payne.
- D. STRAMONIUM L., JIMSONWEED DATURA.
Alternaria crassa (Sacc.) Rands, Leaf spot; Payne.
Cercospora daturicola (Speg.) Ray, Leaf spot; Logan.

DAUCUS

- D. CAROTA L., CARROT.
Erwinia carotovora (Jones) Winslow et al., Soft rot.
Heterodera marioni (Cornu) Goodey, Root knot; Caddo, Ellis, Oklahoma, Payne, Pottawatomie.

DELPHINIUM

D. SPP., LARKSPUR.

Erysiphe polygoni DC., Powdery mildew; Payne.
Fusarium sp., Root rot; Tulsa.

DESCURAINIA

D. PINNATA (Walt.) Britton, PINNATE TANSY-MUSTARD.

Albugo candida (Pers. ex Lev.) Kuntze, White rust;
 Caddo.

D. RICHARDSONII ssp. INCISA (Engelm.) Detling, TANSYMUSTARD.

Peronospora parasitica (Pers.) Fr., Downy mildew;
 Payne.
Septoria sisymbrii Ell., Leaf spot; Payne.

DESMODIUM

D. CANESCENS (L.) DC., HOARY TICKCLOVER.

Cercospora desmodiicola Atk., Leaf spot; Payne.

D. MARYLANDICUM (L.) DC., MARYLAND TICKCLOVER.

Parodiella perisporioides (Berk. & Curt.) Speng., Black spot; Le Flore.

D. PANICULATUM (L.) DC., PANICLED TICKCLOVER.

Tuberculina flavogranulata Dearn. & Barth., Parasitic on *Uromyces hedysari-paniculati* (Schw.) Farl., on living leaves; Le Flore.

Uromyces hedysari-paniculati (Schw.) Farl., Rust; Le Flore.

D. SESSILIFOLIUM (Torr.) T. & G., SESSILE TICKCLOVER.

Uromyces hedysari-paniculati (Schw.) Farl., Rust.

D. SP., TICKCLOVER.

Cercospora desmodii Ell. & Kell., Leaf spot; Payne.

DEUTZIA

X D. LEMOINEI Lemoine, LEMOINE DEUTZIA.

Cercospora deutziae Ell. & Ev., Leaf spot; Payne.

DIANTHERA

D. AMERICANA L., AMERICAN DIANTHERA.

Cercospora diantherae Ell. & Kell., Leaf spot; Murray.

D. OVATA Walt., DIANTHERA.

Cercospora diantherae Ell. & Kell., Leaf spot; Comanche.

DIANTHUS

D. CARYOPHYLLUS L., CARNATION.

Fusarium spp., Dieback; Oklahoma, Payne, Pontotoc.
Heterodera marioni (Cornu) Goodey, Root knot;
 Oklahoma.

Pseudomonas woodsii (E.F.Sm.) Stapp, Bacterial spot.
Uromyces caryophyllinus (Schr.) Wint., Rust; general
 with collection from Payne.

Virus, Carnation mosaic; Kay.

DIARRHENA

D. AMERICANA Beauv., AMERICAN BEAKGRAIN.

Colletotrichum graminicolum (Ces.) G.W.Wils.,
 Anthracnose; Payne.

DIEFFENBACHIA

D. PICTA Schott, VARIABLE TUFTROOT.

Gloeosporium minutum, Anthracnose; Payne.

DIGITARIA

D. FILIFORMIS (L.) Koel., SLENDER FINGERGRASS.

Colletotrichum graminicolum (Ces.) G.W.Wils.,
 Anthracnose; Osage.

D. SANGUINALIS (L.) Scop., HAIRY CRABGRASS.

Piricularia grisea (Cke.) Sacc., Leaf spot; Payne.
Sorosporium syntherismae (Pk.) Farl., Smut; Payne.
Ustilago rabenhorstiana Kuhn, Flower smut; Payne.

DIODIA

D. TERES Walt., ROUGH BUTTONWEED.

Cercospora diodiae Cke., Leaf spot; Payne.
Uromyces spermacoces (Schw.) Curt., Rust; Haskell,
 Le Flore, Lincoln, Pawnee, Payne.

DIOSPYROS

D. KAKI L. f., JAPANESE PERSIMMON.

Cercospora fuliginosa Ell. & Kell., Black leaf spot.
Leptothyrium pomi (Mont. & Fr.) Sacc.; Bryan.

D. VIRGINIANA L., COMMON PERSIMMON.

Cercospora diospyri Thum., Leaf spot; Osage.
Nonparasitic, Black leaf spot; general with collections
 from Osage, Payne, Seminole.

DISTICHLIS

- D. SPICATA (L.) Greene, SEASHORE SALTGRASS.
Endodothella tracyi (Ell. & Ev.) Theiss. & Syd.
Phyllachora diplocarpa Ell. & Ev., Black spot; Kiowa.
Puccinia aristidae Tracy, Rust.
- D. STRICTA (Torr.) Rydb., INLAND SALTGRASS.
Puccinia aristidae Tracy, Rust; Payne.

DODECATHEON

- D. MEADIA L., COMMON SHOOTINGSTAR.
Coniothyrium sp.; Delaware.

DRACAENA

- D. FRAGRANS Ker, FRAGRANT DRACAENA.
Gloeosporium polymorphum Tunchili, Anthracnose;
 Payne.

ECHINACEA

- E. ANGUSTIFOLIA DC., BLACKSAMSON ECHINACEA.
Metasphaeria sp.; Murray.

ECHINOCHLOA

- E. CRUSGALLI (L.) Beauv., BARNYARDGRASS.
Coletotrichum graminicolum (Ces.) G.W. Wils.,
 Anthracnose; Payne.
Puccinia flaccida B. & Br., Rust.
Ustilago crus-galli Tracy & Earle, Smut.

ELAEAGNUS

- E. ANGUSTIFOLIA L., RUSSIANOLIVE.
Alternaria sp.; Payne.
Cercospora elaeagni Heald & Wolf, Leaf spot; Okla-
 homa, Payne.
Cytospora elaeagni Allesch., Canker.
Phyllosticta argyrea Speg., Leaf spot; Payne.
- E. COMMUTATA Bernh., SILVERBERRY.
Cercospora elaeagni Heald & Wolf, Leaf spot; Payne.

ELEOCHARIS

- E. OBTUSA (Willd.) Schultes, BLUNT SPIKESEDGE.
Puccinia eleocharidis Arth., Rust.
- E. TENUIS (Willd.) Schultes, SLENDER SPIKESEDGE.
Puccinia eleocharidis Arth., Rust.

ELEPHANTOPUS

- E. CAROLINIANUS Raeusch., ELEPHANTSFOOT.
Coleosporium elephantopodis (Schw.) Thum., Rust;
 Le Flore, Ottawa, Payne.

ELEUSINE

- E. INDICA (L.) Gaertn., GOOSEGRASS.
Colletotrichum graminicolum (Ces.) G.W.Wils.,
 Anthracnose; Payne.

ELLISIA

- E. NYCTELEA L., MACROCALYX.
Puccinia rubigo-vera apocrypta (Ell.& Tr.) Arth., Rust.

ELYMUS

- E. CANADENSIS L., CANADA WILDRYE.
Ascochyta elymi Tehon & Daniels, Leaf spot; Payne.
Claviceps purpurea (Fr.) Tul., Ergot; general with col-
 lections from Payne, Washita.
Glomerella sp., Leaf spot; Payne.
Puccinia graminis Pers., Stem rust; Payne, Woodward.
Puccinia rubigo-vera impatientis (Arth.) Mains, Rust;
 Logan.
Septoria elymi Ell.& Ev., Leaf spot; Woodward.
- E. GLAUCUS Buckl., BLUE WILDRYE.
Puccinia graminis Pers., Stem rust; Payne.
- E. JUNCEUS Fisch., RUSSIAN WILDRYE.
Colletotrichum graminicolum (Ces.) G.W.Wils.,
 Anthracnose; Payne.
Puccinia graminis Pers., Stem rust; Payne.
- E. VILLOSUS Muhl., HAIRY WILDRYE.
Ophiobolus cariceti (B.& Br.) Sacc.; Payne.
- E. VIRGINICUS L., VIRGINIA WILDRYE.
Claviceps purpurea (Fr.) Tul., Ergot; Payne, Washita.
Colletotrichum graminicolum (Ces.) G.W.Wils.,
 Anthracnose; Cleveland.
Puccinia graminis Pers., Stem rust; Payne.
Puccinia rubigo-vera agropyrina (Erikss.) Arth., Leaf
 rust.
Puccinia rubigo-vera impatientis (Arth.) Mains, Rust;
 Woodward.
Urocystis agropyri (Preuss.) Schroet., Smut.
Ustilago striaeformis (Westend.) Niessl, Smut; Payne.

EPIDENDRUM

- E. SP., ORCHID.
Rhizoctonia solani Kuhn, Root rot; Oklahoma.

ERAGROSTIS

- E. PECTINACEA (Michx.) Steud., CAROLINA LOVEGRASS.
Uromyces eragrostidis Tracy, Rust.
- E. PILOSA (L.) Beauv., INDIA LOVEGRASS.
Puccinia eragrostidis Tracy, Rust; Payne.
- E. SECUNDFLORA Presl, RED LOVEGRASS.
Ellisiella caudata (Pk.) Sacc., Leaf spot; Cleveland.
- E. SPECTABILIS (Pursh) Steud., PURPLE LOVEGRASS.
Ellisiella caudata (Pk.) Sacc., Leaf spot; Payne.
Uromyces eragrostidis Tracy, Rust; Logan.
- E. TRICHODES (Nutt.) Wood, SAND LOVEGRASS.
Colletotrichum graminicolum (Ces.) G.W.Wils., Anthracnose; Payne.

EREMOCHLOA

- E. OPHIUROIDES (Munro) Hack., CENTIPEDEGRASS.
Curvularia geniculata (Tracy & Earle) Boedijn; Payne.

ERIGERON

- E. CANADENSIS L., HORSEWEED FLEABANE.
Cuscuta cuspidata Engelm., Dodder; Pittsburg.
Puccinia cyperi Arth., Rust; Haskell, Payne.
Septoria erigerontis Pk., Leaf spot; Payne.
- E. STRIGOSUS Muhl., DAISY FLEABANE.
Cercospora cana (Pass.) Sacc., Leaf spot; Delaware.
Puccinia cyperi Arth., Rust; Muskogee, Payne.
Puccinia extensicola erigerontis Arth., Rust.
Septoria erigerontis Pk., Leaf spot; Payne.
Virus, Aster yellows; Payne.

EUCHLAENA

- E. SP., TEOSINTE.
Ustilago zaeae (Beck) Ung., Smut; Payne.

EUONYMUS

- E. FORTUNEI var. VEGETUS Rehd., BIGLEAF WINTER-CREEPER EUONYMUS.
Phomopsis foveolaris (Fr.) Trav.; Oklahoma.
Phyllosticta euonymi Sacc., Leaf spot; Oklahoma.

EUONYMUS—Continued.

E. SPP., EUONYMUS.

Fusarium sp., Wilt; Oklahoma.

Phyllosticta euonymi Sacc., Leaf spot; Oklahoma.

EUPATORIUM

E. COELESTINUM L., MISTFLOWER EUPATORIUM.

Puccinia conoclinii Seym., Rust; Payne.

E. SEROTINUM Michx., LATE EUPATORIUM.

Puccinia eleocharidis Arth., Rust.

EUPHORBIA

E. COROLLATA L., FLOWERINGSPURGE EUPHORBIA.

Phyllosticta sp., Leaf spot; Cherokee.

E. DENTATA Michx., TOOTHED EUPHORBIA.

Uromyces proeminens poinsettiae (Tranz.) Arth.,
Rust; Comanche, Payne.

E. DICTYOSPERMA Fisch. & Mey., RETICULATE-
SEEDED EUPHORBIA.

Uromyces dictyosperma Ell. & Ev., Rust; Muskogee.

E. HUMISTRATA Engelm., HAIRY SPREADING
EUPHORBIA.

Uromyces proeminens euphorbiicola (Tranz.) Arth.,
Rust; Pawnee, Payne.

E. MACULATA L., SPOTTED EUPHORBIA.

Cercospridium euphorbiae (T. & E.) Earle, Leaf spot;
Payne.

Uromyces proeminens euphorbiicola (Tranz.) Arth.,
Rust; Pawnee, Payne.

Uromyces proeminens typica Arth., Rust; Pawnee.

E. MARGINATA Pursh, SNOW-ON-THE-MOUNTAIN
EUPHORBIA.

Cercospora pulcherrimae Tharp, Leaf spot; Coman-
che, Payne.

Puccinia panic Diet., Rust; Payne.

Uromyces proeminens myristica (B. & C.) Arth., Rust;
Payne, Seminole.

E. PULCHERRIMA Willd., COMMON POINSETTIA.

Pythium debaryanum Hesse, Stem rot; Bryan.

Uromyces proeminens poinsettiae (Tranz.) Arth., Rust.

E. STICTOSPORA Engelm., NARROW-SEEDED
EUPHORBIA.

Uromyces proeminens euphorbiicola (Tranz.) Arth.,
Rust.

FESTUCA

- F. ELATIOR L., MEADOW FESCUE.
Cercospora sp., Leaf spot; Payne.
Colletotrichum graminicolum (Ces.) G.W.Wils.,
 Anthracnose; Payne.
- F. VERSUTA Beal, TEXAS FESCUE.
Colletotrichum graminicolum (Ces.) G.W.Wils.,
 Anthracnose; Comanche.

FICUS

- F. AUREA Nutt., FLORIDA STRANGLER FIG.
Heterodera marioni (Cornu) Goodey, Root knot; Tulsa.
- F. CARICA L., COMMON FIG.
Nectria cinnabarina Tode ex Fr., Canker; Comanche.
- F. ELASTICA Roxb., INDIARUBBER FIG: RUBBER-
 PLANT.
Gloeosporium cingulatum Atk., Leaf spot; Osage,
 Washington.

FIMBRISTYLIS

- F. AUTUMNALIS (L.) R. & S., SLENDER UMBELLED
 SPIKERUSH.
Cintractia axicola (Berk.) Cornu, Smut; Le Flore.
- F. VAHLII (Lam.) Link. VAHL UMBELLED SPIKERUSH.
Cintractia axicola (Berk.) Cornu, Smut.

FORSYTHIA

- F. INTERMEDIA Zabel, BORDER FORSYTHIA.
Alternaria sp., Leaf spot; Payne.
- F. VIRIDISSIMA Lindl., GREENSTEM FORSYTHIA.
Phyllosticta terminalis Ell. & Mart., Leaf spot; Payne.
- F. SPP., FORSYTHIA.
Polyporus hirsutus Wulf. ex Fr., Wood rot; Payne.
Stereum albobadium (Schw.) Fr., Wood rot; Payne.

FRAGARIA

- F. VIRGINIANA Duchesne, VIRGINIA STRAWBERRY.
Mycosphaerella fragariae (Tul.) Lind., Leaf spot;
 Payne.
- F. SPP., STRAWBERRY.
Botrytis sp., Gray mold rot; Creek, Seminole.
Dendrophoma obscurans (Ell. & Ev.) H.W. Anderson,
 Leaf blight; Delaware, Wagoner.
Diplocarpon earliana (Ell. & Ev.) Wolf, Leaf scorch;
 general with collections from Adair, Caddo, Cherokee,
 Payne, Pontotoc, Rogers, Seminole.

FRAGARIA—Continued.

- Heterodera marioni* (Cornu) Goodey, Root knot; general with collections from Payne, Tulsa, Woodward.
Mucilago spongiosa (Leyss.) Smothering; Alfalfa, Garfield, Noble, Oklahoma, Osage, Woods.
Mycosphaerella fragariae (Tul.) Lind., Leaf spot; general with collections from Adair, Cherokee, Delaware, Hughes, Pawnee, Payne, Seminole, Tulsa.
Phytophthora cactorum (Leb. & Cohn.) Schroet., Leather rot; Adair.
Phytophthora fragariae Hickman, Red stele; Pittsburg.
Rhizoctonia solani Kuhn, Root rot; Oklahoma.
Rhizopus nigricans Ehrenb. ex Fr., Soft rot; Creek, Seminole.
Sphaerotheca humuli (DC.) Burr., Powdery mildew.
 Virus, Strawberry crinkle; Cherokee.
 Nonparasitic, Leaf variegation: June yellows; Payne.

FRAXINUS

- F. AMERICANA L., WHITE ASH.
Agrobacterium rhizogenes (Riker et al.) Conn, Hairy root.
Fomes fraxinophilus (Pk.) Sacc., Heart rot; Payne.
Phyllosticta viridis Ell. & Kell., Leaf spot; Payne.
Piggotia fraxini Berk. & Curt., Leaf spot; Le Flore.
- F. NIGRA Marsh., BLACK ASH.
Cytospora annularis Ell. & Ev., Twig canker; Payne.
Septoria fraxini Desm., Leaf spot; Payne.
- F. PENNSYLVANICA Marsh., RED ASH.
Heterodera marioni (Cornu) Goodey, Root knot.
- F. PENNSYLVANICA var. LANCEOLATA (Borkh.) Sarg., GREEN ASH.
Heterodera marioni (Cornu) Goodey, Root knot; Haskell.
- F. VELUTINA Torr., VELVET ASH.
Cylindrosporium fraxini (Ell. & Kell.) Ell. & Ev., Leaf spot.
Mycosphaerella fraxinicola (Schw.) House, Leaf spot.
Phyllosticta fraxinicola (Currey) Ell. & Ev., Leaf spot; Payne.
- F. VELUTINA var. TOUMEYI Rehd., TOUMEY ASH.
Cylindrosporium fraxini (Ell. & Kell.) Ell. & Ev., Leaf spot; Payne.
- F. SPP., ASH.
Fomes sp., Wood rot; Payne.
Heterodera marioni (Cornu) Goodey, Root knot.

FRAXINUS—Continued.

- Polyporus versicolor* L. ex Fr., Heart rot; Payne.
Puccinia peridermiospora (Ell.& Tr.) Arth., Rust;
 Osage, Payne.
Rhizoctonia solani Kuhn, Seedling blight.
Septoria fraxini Desm., Leaf spot.

FUCHSIA

- F. SP., FUCHSIA.
Septoria sp., Leaf spot; Payne.

GAILLARDIA

- G. ARISTATA Pursh, COMMON PERENNIAL
 GAILLARDIA.
Septoria gaillardiae Ell.&Ev., Leaf spot; Payne.
 G. PULCHELLA Foug., SHOWY GAILLARDIA.
Septoria gaillardiae Ell.& Ev., Leaf spot; Murray.
 G. SP., GAILLARDIA.
Septoria gaillardiae Ell.& Ev., Leaf spot.

GALIUM

- G. APARINE L., CATCHWEED BEDSTRAW.
Cuscuta cuspidata Engelm., Dodder; Comanche.

GARDENIA

- G. SP., GARDENIA.
Heterodera marioni (Cornu) Goodey, Root knot;
 Oklahoma, Payne, Pontotoc.
Phomopsis gardeniae Hans.& Barr., Canker; Kay.
 Nonparasitic, Bud drop; Payne.

GAURA

- G. BIENNIS L., BIENNIAL GAURA.
Cercospora gaurae Kell.& Swing., Leaf spot; Hughes,
 Payne, Seminole.
Septoria gaurina Ell.& Kell., Leaf spot; Payne, Pottawatomie.
Uromyces plumbarius Pk., Rust; Pottawatomie.
 G. COCCINEA Pursh, SCARLET GAURA.
Septoria gaurina Ell.& Kell., Leaf spot; Comanche,
 Payne.
Uromyces plumbarius Pk., Rust.
 G. SINUATA Nutt., WAVYLEAF GAURA.
Cercospora gaurea Kell.& Swing., Leaf spot; Noble,
 Payne.
Uromyces plumbarius Pk., Rust.

GAYLUSSACIA

G. SPP., HUCKLEBERRY.

Heterodera marioni (Cornu) Goodey, Root knot;
Logan.

Rhytisma vaccinii Schw. ex Fr., Tar spot; Le Flore.

GERANIUM

G. CAROLINIANUM L. CAROLINA GERANIUM.

Plasmopara geranii (Pk.) Berl. & De Toni, Downy
mildew; Payne.

Synchytrium geranii Clend.; Payne.

GERBERA

G. JAMESONI Bolus, FLAMERAY GERBERA: TRANS-
VAAL DAISY.

Erysiphe cichoracearum DC., Powdery mildew;
Payne.

GLADIOLUS

G. SPP., GLADIOLUS

Aspergillus sp., Storage rot.

Fusarium oxysporum f. *gladioli* (Massey) Snyder &
Hansen, Corm rot; Craig, Oklahoma.

Penicillium gladioli McCul. & Thom, Storage rot;
Oklahoma.

Pseudomonas marginata (McCul.) Stapp, Stem rot;
Scab; Oklahoma, Payne.

Septoria gladioli Pass., Heart rot; Craig, Oklahoma.

Xanthomonas gummisudans (McCul.) Starr & Burkh.,
Bacterial blight; Carter.

GLEDITSIA

G. TRIACANTHOS L., COMMON HONEYLOCUST.

Alternaria sp., Leaf spot.

Botryosphaeria rhizogena (Berk.) Sacc.; Payne.

Cercospora condensata Ell. & Kell., Leaf spot; Okla-
homa, Payne.

Melasmia hypophylla (Berk. & Rav.) Sacc., Tar spot;
Osage, Payne.

Microsphaera alni DC, ex Wint., Powdery mildew;
Atoka.

Phymatotrichum omnivorum (Shear) Dug., Root rot.

GLYCERIA

G. STRIATA (Lam.) Hitchc., FOWL MANNAGRASS.

Pyrenochaeta sp.; Muskogee.

GOMPHRENA

- G. GLOBOSA L., COMMON GLOBEAMARANTH.
Alternaria sp., Leaf spot; Payne.
Cercospora gomphrenae Ray, Leaf spot; Payne.
- G. SP., GLOBEAMARANTH.
Alternaria sp., Leaf spot; Payne.

GONOLOBUS

- G. LAEVIS Michx., ANGLEPOD.
Cercospora gonolobi Ray, Leaf spot; Payne.
Puccinia obliqua Berk. & Curt., Rust; Payne.

GOSSYPIUM

- G. ARBOREUM L., ASIATIC TREE COTTON.
Xanthomonas malvacearum (E.F.Sm.) Dowson, Angular leaf spot; Payne.
- G. BARBADENSE L., SEASLAND COTTON.
Xanthomonas malvacearum (E.F.Sm.) Dowson, Angular leaf spot; Payne.
- G. CONTEXTUM Cook & Hubbard.
Xanthomonas malvacearum (E.F.Sm.) Dowson, Angular leaf spot; Payne.
- G. HERBACEUM L., LEVANT COTTON.
Xanthomonas malvacearum (E.F.Sm.) Dowson, Angular leaf spot; Payne.
- G. HIRSUTUM L., UPLAND COTTON.
Agrobacterium tumefaciens (E.F.Sm. & Town.) Conn, Crown gall; Oklahoma.
Alternaria sp., Leaf spot & Boll rot; general with collections from Comanche, Garvin, Hughes, Johnston, Lincoln, Muskogee, Okfuskee, Okmulgee, Payne.
Ascochyta gossypii Syd., Blight; general with collections from Grady, Washita.
Aspergillus niger van Tiegh., Boll rot; Bryan, Choctaw, Garvin, Haskell, Hughes, Jefferson, Johnston, Le Flore, McClain, McCurtain, Okfuskee, Oklahoma, Payne, Pittsburg, Seminole, Tillman, Washita.
Aspergillus spp., Boll rot; general.
Brachysporium sp., Boll rot; Johnston, Lincoln, McClain, Muskogee, Pottawatomie, Seminole.
Cercospora gossypina Cke., Leaf spot; general with collections from Blaine, Hughes, Johnston, Muskogee, Okmulgee, Payne, Pottawatomie.
Diplodia sp., Boll rot.

GOSSYPOLIUM—Continued.

- Fusarium chlamyosporum* Wr. & Rg., Seedling disease.
- Fusarium equiseti* var. *bullatum* (Sherb.) Wr., Seedling disease.
- Fusarium moniliforme* Sheld., Pink boll rot: Seedling disease; general with collections from Creek, Garvin, Kiowa, Oklahoma, Payne.
- Fusarium oxysporum* f. *vasinfectum* (Atk.) Snyder & Hansen, Wilt; Adair, Bryan, Cherokee, Choctaw, Cleveland, Coal, Garvin, Grady, Haskell, Hughes, Jackson, Johnston, Le Flore, Love, Mayes, McCurtain, McIntosh, Muskogee, Okfuskee, Oklahoma, Okmulgee, Pittsburg, Pottawatomie, Seminole.
- Fusarium scirpi* Lamb. & Fautr., Seedling disease; general.
- Fusarium scirpi* var. *acuminatum* (E. & E.) Wr., Seedling disease; general.
- Fusarium semitectum* Berk. & Rav., Seedling disease.
- Fusarium solani* (Mart.) App. & Wr., Seedling disease.
- Fusarium solani* var. *martii* (App. & Wr.) Snyder; Seedling disease.
- Glomerella gossypii* (Southworth) Edg., Anthracnose; Caddo, Coal, Grady, Haskell, Latimer, Le Flore, Lincoln, McCurtain, Muskogee, Okfuskee, Payne, Pittsburg, Pushmataha, Sequoyah, Tulsa.
- Helminthosporium* spp., Boll rot; Grady, Noble, Stephens.
- Heterodera marioni* (Cornu) Goodey, Root knot; general with collections from Beckham, Grady, Okfuskee, Payne.
- Penicillium* spp., Seedling disease: Boll rot; general.
- Phymatotrichum omnivorum* (Shear) Dug., Texas root rot; Atoka, Bryan, Carter, Choctaw, Cotton, Garvin, Jefferson, Johnston, Love, Marshall, McCurtain, Murray, Muskogee, Tillman.
- Puccinia schedonnardi* Kell. & Swing., Rust.
- Rhizoctonia solani* Kuhn, Sore shin & Damping off; general with collections from Comanche, Cotton, McIntosh, Seminole, Tillman, Washington.
- Rhizopus nigricans* Ehrenb. ex Fr., Boll rot; general.
- Sclerotium bataticola* Taub., Charcoal rot; general with collection from Okmulgee.
- Sclerotium rolfsii* Sacc., Southern blight; general.
- Verticillium albo-atrum* Reinke & Berth., Wilt; Blaine, Caddo, Greer, Johnston, Tillman, Tulsa.

GOSSYPIUM—Continued.

Xanthomonas malvacearum (E.F.Sm.) Dowson, Angular leaf spot: Bacterial blight: Boll rot; general with collections from Blaine, Choctaw, Cleveland, Coal, Comanche, Creek, Garvin, Grady, Haskell, Hughes, Jackson, Kiowa, Le Flore, Lincoln, Logan, Love, Marshall, Mayes, McClain, Murray, Muskogee, Noble, Okfuskee, Okmulgee, Payne, Pottawatomie, Seminole, Tillman, Washington.

Nonparasitic, Drought injury & Sun scorch; Payne.

Nonparasitic, Lightning injury; Blaine, Okmulgee.

Nonparasitic, Manganese deficiency; McClain.

Nonparasitic, Potash deficiency; Bryan, Carter, Choctaw, Garvin, Grady, Haskell, Hughes, Mayes, McCurtain, Okfuskee, Payne.

G. PERUVIANUM Cav., PERUVIAN COTTON.

Xanthomonas malvacearum (E.F.Sw.) Dowson, Angular leaf spot; Payne.

G. STURTI F. Muell., AUSTRALIAN COTTON.

Cercospora gossypina Cke., Leaf spot; Payne.

Xanthomonas malvacearum (E.F.Sm.) Dowson, Angular leaf spot; Payne.

GUTIERREZIA

G. DRACUNCULOIDES (DC.) Blake, TARRAGON SNAKEWEED.

Cuscuta arvensis Beyrich, Dodder.

G. SAROTHRAE (Pursh) Britt. & Rusby, BROOM SNAKEWEED.

Cuscuta sp., Dodder; Cimarron.

GYMNOCLADUS

G. DIOICA (L.) Koch, KENTUCKY COFFEETREE.

Cercospora gymnocladii Ell. & Kell., Leaf spot; Payne.

Phymatotrichum omnivorum (Shear) Dug., Root rot.

HALESIA

H. MONTICOLA (Rehd.) Sarg., MOUNTAIN SILVERBELL.

Cercospora halesiae Dearn., Leaf spot; Payne.

HAMAMELIS

H. VIRGINIANA L., COMMON WITCHHAZEL.

Cercospora hamamelidis Ell. & Ev., Leaf spot; Payne.

Ramularia hamamelidis Pk., Leaf spot; Payne.

HEDERA

- H. **HELIX L., ENGLISH IVY.**
Colletotrichum trichellum (Fr.) Duke, Anthracnose;
 Payne.
Erysiphe cichoracearum DC., Powdery mildew;
 Oklahoma.

HELIANTHUS

- H. **ANNUUS L., COMMON SUNFLOWER.**
Cercospora pachypus Ell.& Kell., Leaf spot; Payne.
Erysiphe cichoracearum DC., Powdery mildew; Payne.
Puccinia helianthi Schw., Rust; Cotton, Payne.
Septoria helianthi Ell.& Kell., Leaf spot; Payne.
- H. **HIRSUTUS Raf., STIFFHAired SUNFLOWER.**
Puccinia helianthi Schw., Rust.
- H. **MOLLIS Lam., ASHY SUNFLOWER.**
Puccinia helianthi Schw., Rust; Lincoln.
- H. **PETIOLARIS Nutt., PRAIRIE SUNFLOWER.**
Puccinia helianthi Schw., Rust; Ellis.
Uromyces junci (Desm.) Tul.
- H. **RIGIDUS (Cass.) Desf., STIFF SUNFLOWER.**
Coleosporium helianthi (Schw.) Arth., Rust.
- H. **TUBEROSUS L., JERUSALEMARTICHOKE SUNFLOWER.**
Puccinia helianthi Schw., Rust.
- H. **SPP., SUNFLOWER.**
Cuscuta sp., Dodder; Texas.
Puccinia helianthi Schw., Rust; Cotton, Grady, Mayes,
 Payne, Texas.
Septoria helianthi Ell.& Kell., Leaf spot; Delaware.

HELIOTROPIUM

- H. **CURASSAVICUM L., SALT HELIOTROPE.**
Cercospora heliotropii Ell.& Ev., Leaf spot; Payne.
- H. **SP., HELIOTROPE.**
Cuscuta cuspidata Engelm., Dodder; Cimarron.

HEMEROCALLIS

- H. **SP., DAYLILY.**
Colletotrichum liliacearum Ferraris, Anthracnose;
 Payne.

HIBISCUS

- H. **ESCULENTUS L., OKRA.**
Cercospora malayensis Stev.& Solheim, Leaf spot;
 Payne.
Heterodera marioni (Cornu) Goodey, Root knot; gen-
 eral with collections from Logan, Tulsa.

HIBISCUS—Continued.

- Phyllosticta hibiscina* Ell. & Ev., Leaf spot; Payne, Seminole.
- Rhizoctonia solani* Kuhn, Root rot; Payne.
- H. ROSA-SINENSIS L., CHINESE HIBISCUS.
Cercospora hibisci Tr. & Earle, Leaf spot; Payne.
Cercospora malayensis Stev. & Solheim, Leaf spot; Payne.
- Phyllosticta hibiscina* Ell. & Ev., Leaf spot.
- H. SYRIACUS L., SHRUBALTHEA: ROSE-OF-SHARON.
Botryosphaeria ribis var. *chromogena* Shear et al.; Payne.
Cercospora hibisci Tr. & Earle, Leaf spot; Payne.
Cytosporina sp.; Payne.
Dematium pullulans de Bary; Payne.
Fusarium lateritium Nees, Dieback; Payne.

HORDEUM

- H. BULBOSUM L., BULBOUS BARLEY.
Colletotrichum graminicolum (Ces.) G.W.Wils., Anthracnose; Payne, Seminole.
Puccinia graminis Pers., Stem rust; Payne.
- H. PUSILLUM Nutt., LITTLE BARLEY.
Erysiphe graminis DC., Powdery mildew; Payne.
Puccinia glumarum (Schmidt) Erikss., Rust; Payne.
Puccinia graminis Pers., Stem rust; general with collection from Payne.
Scolecotrichum graminis Fckl., Brown stripe; Payne.
Tilletia texana Long, Smut.
Uromyces hordeinus Arth., Rust; Payne.
- H. VULGARE L., BARLEY.
Claviceps purpurea (Fr.) Tul., Ergot; Caddo.
Colletotrichum graminicolum (Ces.) G.W.Wils., Anthracnose; Seminole.
Erysiphe graminis DC., Powdery mildew; general with collections from Delaware, Garvin, McCurtain.
Gibberella zeae (Schw.) Petch, Scab.
Helminthosporium gramineum Rabh., Stripe; general with collections from McCurtain, Payne.
Helminthosporium sativum Pam., King, & Bakke, Spot blotch; general with collections from Delaware, Payne, Seminole.
Helminthosporium teres Sacc., Net blotch; general with collections from Delaware, McCurtain, Payne.
Ophiobolus graminis Sacc., Take-all foot rot; Cherokee.
Puccinia anomala Rostr., Leaf rust; general with col-

HORDEUM—Continued.

- lections from Bryan, Caddo, Comanche, Lincoln, Payne, Woods.
Puccinia graminis Pers., Stem rust; general with collections from Payne, Seminole.
Rhynchosporium secalis (Oud.) Davis, Leaf scorch; Lincoln.
Sclerospora macrospora Sacc., Downy mildew; Garvin.
Scolecotrichum graminis Fckl., Leaf streak; Payne.
Septoria passerini Sacc., Leaf spot; Lincoln.
Ustilago hordei (Pers.) Lagerh., Covered smut; general with collections from Garfield, Payne, Seminole.
Ustilago nigra Tapke, Shallow-borne loose smut; general.
Ustilago nuda (Jens.) Rostr., Deep-borne loose smut; general with collections from Alfalfa, Custer, Grady, Payne, Seminole.

HYACINTHUS

H. SPP., HYACINTH.

- Aspergillus* sp., Storage rot; Oklahoma.
Botrytis sp., Storage rot; Oklahoma.
Penicillium sp., Storage rot; Oklahoma.

HYRANGEA

H. ARBORESCENS L., SMOOTH HYDRANGEA.

- Cercospora hydrangeae* Ell. & Ev., Leaf spot; Payne.
Leptosphaeria vagabunda Sacc.; Adair, Delaware.

H. MACROPHYLLA (Thunb.) DC., BIGLEAF

HYDRANGEA.

- Cercospora hydrangeae* Ell. & Ev., Leaf spot; Payne.

H. SP.

- Heterodera marioni* (Cornu) Goodey, Root knot; general.

HYMENOPAPPUS

H. SCABIOSAEUS L' Her., WHITEBRACT HYMENOPAPPUS.

- Plasmopara halstedii* (Farl.) Berl. & De Toni, Downy mildew; Murray.
Puccinia grindeliae Pk., Rust.

HYPOXIS

H. HIRSUTA (L.) Coville, COMMON GOLDSTARGRASS.

- Cylindrosporium guttatum* Wint., Leaf blotch; Delaware.

ILEX

- I. DECIDUA Walt., POSSUMHAW.
Rhytisma sp., Tar spot; Comanche.
- I. OPACA Ait., AMERICAN HOLLY.
Phyllosticta ilicicola (Cke. & Ell.) Ell. & Ev., Leaf spot; McIntosh.
Phyllosticta opaca Ell. & Ev., Leaf spot; Oklahoma.
- I. SPP., HOLLY.
Alternaria sp., Leaf spot; Cleveland, Oklahoma.
Mucilago spongiosa (Leyss.) Morg., Smothering; Payne.
Phyllosticta spp., Leaf spot; Cleveland, Delaware, Johnston, McIntosh, Tulsa.

IPOMOEA

- I. BATATAS (L.) Lam., SWEETPOTATO.
Actinomyces ipomoea Person & Martin, Soil rot or pox; Haskell, Okfuskee, Oklahoma, Sequoyah.
Alternaria sp., Leaf spot; Payne, Stephens.
Aspergillus sp., Storage rot; Seminole.
Diaporthe batatatis (Ell. & Halst.) Harter & Field, Dry rot.
Diplodia tubericola (Ell. & Ev.) Taub., Java black rot; general with collections from McCurtain, Okfuskee, Payne.
Disaeta sp.
Endoconidiophora fimbriata (Ell. & Halst.) Davidson, Black rot; general with collections from Canadian, Craig, Grady, McIntosh, Okfuskee, Oklahoma, Payne, Roger Mills, Seminole, Sequoyah.
Erwinia carotovora (Jones) Winslow et al., Soft rot; Payne, Seminole.
Fusarium batatatis Woll., Stem rot or wilt; general with collections from Caddo, Grady, Haskell, Logan, McCurtain, Okfuskee, Oklahoma, Payne, Pottawatomie, Sequoyah, Tulsa.
Fusarium hyperoxysporum Woll., Stem rot or wilt; general with collection from Seminole.
Fusarium oxysporum Schl., Surface rot; general.
Fusarium radiclecola Woll.; Tulsa.
Heterodera marioni (Cornu) Goodey, Root knot; general with collections from Creek, Garfield, Haskell, Kiowa, Major, Okfuskee, Oklahoma, Woodward.
Monilochaetes infuscans Ell. & Halst., Scurf; general with collections from Oklahoma, Payne.
Pellicularia filamentosa (Pat.) Rogers, Stem rot; Muskogee.
Penicillium sp., Blue mold; general.

IPOMOEA—Continued.

Phyllosticta batatas (Thum.) Cke., Leaf spot; general with collection from Woodward.

Phymatotrichum omnivorum (Shear) Dug., Texas root rot; southern tier of counties.

Plenodomus destruens Harter, Foot rot; general with collection from Muskogee.

Pythium sp., Root rot.

Rhizopus nigricans Ehrenb. ex Fr., Ring rot: Soft rot; general with collections from Grady, Haskell, Okfuske, Oklahoma, Payne, Seminole, Sequoyah, Tulsa.

Schizophyllum sp., Okfuske.

Sclerotium bataticola Taub., Charcoal rot; general.

Sclerotium rolfsii Sacc., Southern blight; general with collections from Seminole.

Septoria bataticola Taub., Leaf spot; general.

Trichoderma koningi Oud., Storage rot.

Tylenchus dipsaci (Kuhn) Bast., Stem nematode.

Nonparasitic, Fasciation.

I. HEDERACEA L., IVYLEAF MORNINGGLORY.

Albugo ipomoeae-panduranae (Schw.) Swingle, White rust; Payne.

Coleosporium ipomoeae (Schw.) Burr., Rust; Payne.

I. PANDURATA (L.) Mey., BIGROOT MORNINGGLORY: WILD POTATO VINE.

Albugo ipomoeae-panduranae (Schw.) Swingle, White rust; Muskogee, Payne.

Coleosporium ipomoeae (Schw.) Burr., Rust; Seminole.

I. PURPUREA (L.) Roth, COMMON MORNINGGLORY.

Albugo ipomoeae-panduranae (Schw.) Swingle, White rust; general with collections from Comanche, Logan.

Coleosporium ipomoeae (Schw.) Burr., Rust; Tulsa.

Heterodera marioni (Cornu) Goodey, Root knot; Logan.

Puccinia crassipes Berk. & Curt., Rust.

I. SP., MORNINGGLORY.

Coleosporium ipomoeae (Schw.) Burr., Rust; Payne.

IRIS

I. VERSICOLOR L., BLUEFLAG IRIS.

Botrytis convoluta Whet. & Dray.; Tulsa.

Heterosporium iridis (Faut. & Roum.) Jacq., Leaf spot; Kay, Payne.

IRIS—Continued.

I. SPP., IRIS.

- Colletotrichum oleacearum* Ferraris, Anthracnose; Payne.
Didymellina iridis (Desm.) v Hohnel, Leaf spot; general with collections from Payne, Seminole.
Erwinia carotovora (Jones) Winslow et al., Soft rot; Tulsa.
Heterodera marioni (Cornu) Goodey, Root knot; Oklahoma.
Pseudomonas marginata (McCul.) Stapp, Bacterial spot; Scab.
Puccinia iridis (DC.) Wallr., Rust; Oklahoma.

IVA

I. CILIATA Willd.

- Cuscuta indecora* Choisy, Dodder; Beckham.

JASMINUM

J. FLORIDUM Bunge, SHOWY JASMINE.

- Coniothyrium* sp., Dieback; Payne.

J. HUMILE L., ITALIAN JASMINE.

- Agrobacterium tumefaciens* (E.F.Sm. & Towns.) Conn, Crown gall; Oklahoma.
Coniothyrium sp., Dieback; Payne.
Rhizoctonia solani Kuhn, Seedling blight; Oklahoma.

J. NUDIFLORUM Lindl., WINTER JASMINE.

- Coniothyrium* sp., Dieback; Payne.

JUGLANS

J. NIGRA L., EASTERN BLACK WALNUT.

- Cylindrosporium juglandis* Wolf, Leaf spot; Payne.
Gloeosporium sp., Anthracnose; Payne.
Gnomonia leptostyla (Fr.) Ces. & De Not., Leaf spot; Payne.
Marssonina juglandis (Lib.) Magn., Leaf spot; Payne.
Phoradendron flavescens (Pursh) Nutt., Mistletoe; general.

J. REGIA L., PERSIAN WALNUT.

- Cylindrosporium juglandis* Wolf, Leaf spot; Lincoln.
Marssonina juglandis (Lib.) Magn., Leaf spot; Johnston, Oklahoma.
Phleospora multimaculans Heald & Wolf, Leaf spot.
Nectria cinnabarina Tode ex Fr., Canker; Oklahoma.
Xanthomonas juglandis (Pierce) Dowson, Bacterial blight; Kingfisher.

JUNIPERUS

- J. CHINENSIS var. PFITZERIANA Spaeth, PFITZER CEDAR.
Gymnosporangium juniperi-virginianae Schw., Rust gall; Haskell.
- J. MEXICANA Spreng., MEXICAN JUNIPER.
Gymnosporangium exiguum Kern, Leaf rust; Murray.
- J. MONOSPERMA (Engelm.) Sarg., ONESEED JUNIPER.
Gymnosporangium sp., Rust; Payne.
- J. SCOPULORUM Sarg., ROCKYMOUNTAIN JUNIPER.
Gymnosporangium betheli Kern, Rust gall; Haskell.
Gymnosporangium exiguum Kern, Leaf rust.
- J. VIRGINIANA L., EASTERN REDCEDAR.
Cytospora sp., Needle blight; Atoka.
Daedalea juniperina Murr., Wood rot; Payne.
Gymnosporangium clavipes Cke. & Pk., Rust gall; Payne.
Gymnosporangium floriforme Thaxt., Rust.
Gymnosporangium globosum Farl., Rust gall; Haskell.
Gymnosporangium juniperi-virginianae Schw., Rust gall; Payne.
Gymnosporangium nidus-avis Thaxt., Rust gall; Payne.
Gymnosporangium spp., Rust; Alfalfa, Cleveland, Payne.
Sclerotium bataticola Taub., Charcoal rot; Atoka.
Sphaeropsis sp., Canker; Payne.
- J. VIRGINIANA var. CANAERTI Senecl., CANAERT EASTERN REDCEDAR.
Gymnosporangium juniperi-virginianae Schw., Rust gall; Haskell.
- J. VIRGINIANA var. GLAUCA Carr., SILVER EASTERN REDCEDAR.
Gymnosporangium juniperi-virginianae Schw., Rust gall; Haskell.
- J. VIRGINIANA var. GLOBOSA Beiss., GLOBE EASTERN REDCEDAR.
Gymnosporangium floriforme Thaxt., Rust gall; Payne.
Gymnosporangium juniperi-virginianae Schw., Rust gall; Haskell.
- J. VIRGINIANA var. PYRAMIDALIS Carr., PYRAMIDAL EASTERN REDCEDAR.
Gymnosporangium juniperi-virginianae Schw., Rust gall; Haskell.

JUNIPERUS—Continued.

J. SPP., JUNIPER: CEDAR.

Alternaria sp., Leaf spot; Payne, Seminole.

Cercospora sequotiae var. *juniperi* Ell. & Ev., Leaf spot; Tulsa.

Cyanospora albicedrae Heald & Wolf, Whitening; Blaine.

Gloeosporium sp., Anthracnose; Bryan.

Gymnosporangium effusum Kern, Rust gall; Okmulgee.

Gymnosporangium spp., Rust; Muskogee, Okmulgee, Washita.

Phomopsis juniperovora Hahn, Nursery blight; Caddo, Cleveland, Creek, Major, Payne, Tulsa, Woods.

Phymatotrichum omnivorum (Shear) Dug., Root rot.

JUSSIAEA

J. DECURRENS (Walt.) DC., WATERPRIMROSE.

Alternaria sp., Leaf spot; Muskogee.

J. DIFFUSA Forsk., FLOATING WATERPRIMROSE.

Cercospora jussiaeae Atk., Leaf spot; Payne.

KNIPHOFIA

K. ELEGANS Engl., HOTPOKER TORCHLILY.

Colletotrichum lileacearum Ferraris, Anthracnose; Payne.

KOELERIA

K. CRISTATA (L.) Pers., PRAIRIE JUNEGRASS.

Ellisiella caudata (Pk.) Sacc., Leaf spot; Cleveland.

KOELREUTERIA

K. PANICULATA Laxm., PANICLED GOLDENRAINTREE.

Cytosporina sp., Payne.

Nectria cinnabarina Tode ex. Fr., Canker; Payne.

Phyllosticta sp., Leaf spot; Payne.

KOLKWITZIA

K. AMABILIS Graebn., BEAUTYBUSH.

Cercospora kolkwitziae Ray, Leaf spot; Payne.

Dothiorella sp.; Payne.

KRIGIA

K. SP., DWARFDANDELION.

Bremia lactucae Regel, Downy mildew; Payne.

LABURNUM

L. ANAGYROIDES Medic, GOLDENCHAIN LABURNUM.

Cercospora laburni Ray, Leaf spot; Payne.

LACTUCA

- L. CANADENSIS L., CANADA LETTUCE.
Septoria lactucicola Ell.& Mart., Leaf spot; Murray, Payne.
- L. SATIVA L., GARDEN LETTUCE.
Alternaria sp., Leaf spot; Seminole.
Heterodera marioni (Cornu) Goodey, Root knot; Craig, Logan.
Pythium sp., Root rot; Payne.
Sclerotium sclerotiorum (Lib.) Mass., Drop; Tulsa.
Virus, Aster yellows; Tulsa.
Nonparasitic, Tipburn; Payne.
- L. SP., CELTUCE.
Bremia lactucae Reg., Downy mildew; Payne.

LAGERSTROEMIA

- L. INDICA L., COMMON CRAPEMYRTLE.
Cuscuta sp., Dodder; Harper.
Erysiphe lagerstroemiae West, Powdery mildew; Bryan, Carter, Oklahoma, Payne.
Phyllosticta lagerstroemiae Ell.& Ev., Leaf spot.

LAMIUM

- L. AMPLEXICAULE L., HENBIT DEADNETTLE.
Erysiphe cichoracearum DC., Powdery mildew; Payne.
Septoria lamii Pass., Leaf spot; Payne.

LAPORTEA

- L. CANADENSIS (L.) Gaud., CANADA WOODNETTLE.
Gloeosporium laportee Pk., Leaf spot; Osage, Washington.

LATHYRUS

- L. LATIFOLIUS L., PERENNIAL SWEETPEA.
Cercospora lathryina Ell.& Ev., Leaf spot; Payne.
- L. ODORATUS L., SWEETPEA.
Corynebacterium fascians (Tilford) Dowson, Fasciation; Payne.
Erysiphe polygoni DC., Powdery mildew; Payne.
Heterodera marioni (Cornu) Goodey, Root knot; general.
Heterosporium sp., Leaf spot; Oklahoma.
Phytomonas lathyri Manns & Taub., Payne, Seminole.
Rhizoctonia solani Kuhn, Damping off; Oklahoma.

LAVANDULA

- L. SP., LAVENDAR.
Septoria lavandulae Desm., Leaf spot; Oklahoma.

LEPIDIUM

- L. VIRGINICUM L., VIRGINIA PEPPERWEED.
Cuscuta arvensis Beyrich, Dodder; Payne.
Peronospora parasitica (Pers.) Fr., Downy mildew;
Noble, Payne.

LEPTOCHLOA

- L. FILIFORMIS (Lam.) Beauv., RED SPRANGLETOP.
Puccinia bartholomaei Diet., Leaf rust; Haskell,
Payne.

LEPTOLOMA

- L. COGNATUM (Schult.) Chase, FALL WITCHGRASS.
Puccinia imposita Arth., Rust; general with collection
from Payne.

LESPEDEZA

- L. ~~H~~IRTA (L.) Hornem., HAIRY LESPEDEZA.
Uromyces lespedezae-procumbentis (Schw.) Curt.,
Rust; Le Flore.
- L. ~~I~~NTERMEDIA (Wats.) Britt., WAND LESPEDEZA.
Uromyces lespedezae-procumbentis (Schw.) Curt.,
Rust; Logan, Payne.
- L. ~~P~~ROCUMBENS Michx., TRAILING LESPEDEZA.
Uromyces lespedezae-procumbentis (Schw.) Curt.,
Rust; Payne.
- L. ~~R~~EPENS (L.) Bart., CREEPING LESPEDEZA.
Uromyces lespedezae-procumbentis (Schw.) Curt.,
Rust; Choctaw.
- L. ~~S~~TUVEI Nutt., STUVES LESPEDEZA.
Uromyces lespedezae-procumbentis (Schw.) Curt.,
Rust; Payne.
- L. ~~V~~IOLACEA L., VIOLET LESPEDEZA.
Darluca filum (Biv.) Cast., Parasitic on
Uromyces lespedezae-procumbentis (Schw.) Curt on
living leaves; McCurtain.
Uromyces lespedezae-procumbentis (Schw.) Curt.,
Rust; McCurtain, Payne.
- L. ~~V~~IRGINICA (L.) Britton, SLENDER LESPEDEZA.
Uromyces lespedezae-procumbentis (Schw.) Curt.,
Rust; Craig, Lincoln, Osage.

LESPEDEZA—Continued.

L. SPP., LESPEDEZA.

- Agrobacterium tumefaciens* (E.F.Sm.& Town.) Conn,
Crown gall; Logan.
Cuscuta arvensis Beyrich, Dodder; Muskogee.

LIATRIS

- L. PUNCTATA Hook., DOTTED GAYFEATHER.
Cuscuta glomerata Cholsy, Dodder; Cleveland.
L. SCARIOSA (L.) Willd., TALL GAYFEATHER.
Erysiphe cichoracearum DC., Powdery mildew; Payne.

LIGUSTRUM

- L. AMURENSE Carr., AMUR PRIVET.
Cercospora adusta Heald & Wolf, Leaf spot; Payne.
Microsphaera alni DC. ex Wint., Powdery mildew;
Payne.
L. IBOLIUM Coe, IBOLIUM PRIVET.
Cercospora adusta Heald & Wolf, Leaf spot; Payne.
L. OVALIFOLIUM Hassk., CALIFORNIA PRIVET.
Cercospora adusta Heald & Wolf, Leaf spot; Payne.
L. VULGARE L., EUROPEAN PRIVET.
Armillaria mellea Vahl ex Fr., Mushroom root rot;
Logan.
Coniothyrium sp.; Garfield.
Cytospora sp.; Payne.
Fusarium sp., Root rot; Payne.
Glomerella cingulata (Ston.) Spauld & Schrenk,
Anthracnose; Alfalfa, Payne.
Nectria cinnabarina Tode ex Fr., Canker; Payne.
L. SP., PRIVET.
Phymatotrichum omnivorum (Shear) Dug., Root rot.

LILIUM

- L. MONADELPHUM Marsh.& Bieb., CAUCASIAN LILY.
Colletotrichum liliacearum Ferraris, Anthracnose;
Payne.
L. REGALE Wils., REGAL LILY.
Botrytis sp., Blight; Kay.

LINARIA

- L. CANADENSIS (L.) Dumont, OLDFIELD TOADFLAX.
Peronospora linariae Fckl., Downy mildew; Payne.

LINUM

- L. USITATISSIMUM L., COMMON FLAX.
Fusarium lini Bolley, Wilt.
Melampsora lini (Pers.) Lev., Rust.
Rhizoctonia solani Kuhn, Root rot; Payne.
Septoria linicola (Speg.) Garassini, Pasm disease;
 Payne, Washington.
 Nonparasitic, Heat canker; Mayes.

LIPPIA

- L. LANCEOLATA Michx., FOGFRUIT.
Cercospora lippiae Ell. & Ev., Leaf spot; Kingfisher.

LIQUIDAMBAR

- L. STYRACIFLUA L., AMERICAN SWEETGUM.
Peltella sp., Leaf spot; McCurtain.
Septoria liquidambaris Cke. & Ell., Leaf spot; Le Flore.

LOBELIA

- L. CARDINALIS L., CARDINALFLOWER.
Septoria lobeliae Pk., Leaf spot; Cleveland, Delaware.
 L. PUBERULA Michx., DOWNY LOBELIA.
Cercospora ferruginea Fckl., Leaf spot; Creek.
 L. SIPHILITICA L., BIGBLUE LOBELIA.
Septoria lobeliae Pk., Leaf spot; Murray.

LOLIUM

- L. MULTIFLORUM Lam., ITALIAN RYEGRASS.
Claviceps purpurea (Fr.) Tul., Ergot.
Puccinia coronata Cda., Crown rust; Bryan.
 L. PERENNE L., PERENNIAL RYEGRASS.
Claviceps purpurea (Fr.) Tul., Ergot; Payne.
Puccinia coronata Cda., Crown rust; Payne.
Puccinia rubigo-vera agropyri (Erikss.) Arth., Leaf
 rust; Payne.

LOMATIUM

- L. DAUCIFOLIUM (Nutt.) Coult. & Rose, CARROT-
 LEAVED LOMATIUM.
Puccinia jonesii Peck, Rust; Payne.
 L. ORIENTALE Coult. & Rose, LOMATIUM.
Puccinia jonesii Peck, Rust.

LONICERA

- L. HECKROTTI Rehd., EVERBLOOMING HONEY-
 SUCKLE.
Microsphaera alni DC. ex Wint., Powdery mildew;
 Payne.

LONICERA—Continued.

- L. ORIENTALIS var. CAUCASICA (Pall.) Zabel, BUCK-
THORN HONEYSUCKLE.
Phyllosticta sp., Leaf spot; Payne.
- L. SP., HONEYSUCKLE.
Phyllosticta lonicerae Westd., Leaf spot; Oklahoma.

LOTUS

- L. AMERICANUS (Nutt.) Bisch., SPANISHCLOVER
DEERVETCH.
Cercospora sp., Leaf spot; Garvin, Murray.

LUDVIGIA

- L. ALTERNIFOLIA L., SEEDBOX.
Cercospora ludwigiae Atk., Leaf spot; Ottawa.

LYCIUM

- L. PALLIDUM Miers, PALE WOLFBERRY.
Cercospora lycii Ell. & Halst., Leaf spot; Payne.
Puccinia tumidipes Pk., Rust; Payne.

LYCOPERSICON

- L. ESCULENTUM Mill., COMMON TOMATO.
Alternaria solani (Ell. & Mart.) Jones & Grout, Early
blight; general with collections from Delaware, Okla-
homa, Osage, Payne, Wagoner.
Alternaria tomato (Cke.) Weber, Nailhead spot;
Oklahoma, Seminole, Woodward.
Bacterium punctulans M.K. Bryan, Bacterial speck;
Muskogee, Oklahoma.
Bacterium solanacearum E.F. Sm., Bacterial wilt; gen-
eral with collections from Creek, Le Flore, Ottawa,
Payne, Seminole, Tulsa.
Cladosporium fulvum Cke., Leaf mold; Payne.
Colletotrichum phomoides (Sacc.) Chester, Anthrac-
nose; Cleveland, Payne, Seminole, Washita.
Corynebacterium michiganense (E.F. Sm.) Jensen,
Bacterial canker; general with collections from Bryan,
Delaware, Logan, Payne, Seminole, Tulsa, Woods.
Fusarium oxysporum f. *lycopersici* (Sacc.) Snyder &
Hansen, Wilt; Atoka, Bryan, Cleveland, Haskell, Le
Flore, Lincoln, Noble, Okmulgee, Oklahoma, Payne,
Seminole, Tulsa, Woodward.
Fusarium sp., Fruit rot; Payne.

LYCOPERSICON—Continued.

Heterodera marioni (Cornu) Goodey, Root knot; general with collections from Adair, Beckham, Caddo, Cherokee, Craig, Ellis, Garfield, Oklahoma, Payne, Seminole, Tillman, Tulsa, Washington, Woods.

Peltularia filamentosa (Pat.) Rogers, Damping off; Okmulgee.

Phoma destructiva Plowr., Phoma rot.

Phymatotrichum omnivorum (Shear) Dug., Texas root rot; Carter.

Phytophthora terrestris Sherb., Buckeye rot; Sequoyah.

Pythium aphanidermatum (Edson) Fitz., Damping off; Okmulgee.

Rhizoctonia solani Kuhn, Damping off; Okmulgee.

Sclerotium rolfsii Sacc., Southern blight; Muskogee.

Septoria lycopersici Speg., Leaf spot; general with collections from Adair, Alfalfa, Blaine, Le Flore, Oklahoma, Osage, Payne, Tillman, Tulsa, Woodward.

Xanthomonas vesicatoria (Doidge) Dowson, Bacterial spot; Adair, Cleveland, Payne, Seminole, Woodward.

Virus, Curley top: Western yellow blight; Payne.

Virus, Double-virus streak; Oklahoma, Payne.

Virus, Single-virus streak; Payne.

Virus, Tomato mosaic; general with collections from Logan, Osage, Payne.

Nonparasitic, Blossom-end rot; general with collections from Payne, Pittsburg, Seminole, Tulsa.

Nonparasitic, Catface; general with collection from Payne.

LYCOPUS

L. AMERICANUS Muhl., AMERICAN BUGLEWEED.

Phyllosticta decidua Ell. & Kell., Leaf spot; Woods.

MAGNOLIA

M. ACUMINATA L., CUCUMBERTREE.

Cladosporium fasciculatum Cda.; Payne.

M. SPP., MAGNOLIA.

Septoria magnoliae Cke., Leaf spot; Atoka, Bryan, Hughes, Pittsburg.

Nonparasitic, Winter browning; Mayes.

MAHONIA

M. AQUIFOLIUM (Pursh) Nutt., OREGONGRAPE.

Coniothyrium sp., Leaf spot; Comanche.

Phyllosticta sp., Leaf spot; Oklahoma.

MALUS

- M. BACCATA (L.) Borkh., SIBERIAN CRABAPPLE.
Gymnosporangium globosum Farl., Rust; Creek, Garfield.
- M. IOENSIS (Wood) Britton, PRAIRIE CRABAPPLE.
Gymnosporangium juniperi-virginianae Schw., Rust; Payne.
- M. SYLVESTRIS Mill., APPLE.
Agrobacterium rhizogenes (Riker et al.) Conn, Hairy root; Le Flore.
Agrobacterium tumefaciens (E.F.Sm.& Town.) Conn, Crown gall; general with collections from Caddo, Cherokee, Haskell, Payne, Seminole, Woods.
Armillaria mellea Vahl ex Fr., Mushroom root rot; Bryan, Cherokee.
Botryosphaeria ribis (Tode ex Fr.) Gross.& Dug., Black rot; Dewey, Nowata, Payne.
Cephalothecium roseum Cda., Pink mold rot; Payne.
Clitocybe monadelphæ (Morgan) Sacc., Root rot.
Cytospora leucostoma Sacc., Dieback; general with collections from Payne, Seminole.
Erwinia amylovora (Burr.) Winslow, Fire blight; general with collections from Adair, Alfalfa, Carter, Creek, Delaware, Dewey, Garfield, Haskell, Jefferson, Le Flore, McIntosh, Noble, Okmulgee, Payne, Rogers, Seminole, Sequoyah, Wagoner, Washita.
Fusicladium dendriticum (Wallr.) Fckl., Scab; general with collections from Payne.
Gloeodes pomigena (Schw.) Colby, Sooty blotch; general with collections from Garvin, Haskell, Payne.
Glomerella cingulata (Ston.) Spauld.& Schrenk, Bitter rot; general with collection from Payne.
Gymnosporangium juniperi-virginianae Schw., Rust; Cherokee, Creek, Dewey, Lincoln, Muskogee, Okmulgee, Osage, Pawnee, Payne, Washita.
Leptothyrium pomi (Mont.& Fr.) Sacc., Fly speck; general with collections from Cherokee, Delaware, Garvin, Payne.
Monilinia fructicola (Wint.) Honey, American brown rot; Bryan, Garvin, Murray, Okfuskee, Tulsa.
Neofabraea malicorticis Jack., Northwestern anthracnose; Payne.
Nummularia discreta (Schw.) Tul., Blister canker; Payne.
Penicillium sp., Storage rot; Payne.
Phoma pomi Pass., Fruit spot; Payne.

MALUS—Continued.

Phyllosticta solitaria Ell.& Ev., Blotch; Adair, Alfalfa, Bryan, Canadian, Coal, Comanche, Creek, Delaware, Dewey, Garfield, Garvin, Haskell, Johnston, Kay, Le Flore, Lincoln, Major, McClain, McCurtain, Murray, Noble, Nowata, Okfuskee, Oklahoma, Okmulgee, Pawnee, Payne, Pittsburg, Pontotoc, Seminole, Tillman, Tulsa, Wagoner, Woods, Woodward.

Physalospora obtusa (Schw.) Cke., Black rot: Frog eye leaf spot; general with collections from Adair, Craig, Delaware, Dewey, Garvin, Grant, Lincoln, Mayes, McCurtain, Okfuskee, Payne, Pittsburg, Seminole, Tulsa.

Podosphaera leuctotricha (Ell.& Ev.) Salm., Powdery mildew; Payne.

Polyporus versicolor L. ex Fr., Heartrot; Payne.

Valsa ambiens Pers. ex Fr., Canker & Dieback; Payne.

Valsa leucostoma Pers. ex Fr., Canker; Payne.

Venturia inaequalis (Cke.) Wint., Scab; general with collections from Adair, Bryan, Cherokee, Garvin, Haskell, Oklahoma, Pawnee, Payne, Seminole, Woods.

Xylaria mali Fromme, Black root rot; Alfalfa, Delaware, Seminole, Pottawatomie.

Nonparasitic, Bitter pit: Water core.

Nonparasitic, Johnathon spot.

Nonparasitic, Late frost injury.

Undetermined, Measles.

MALVA

M. ROTUNDIFOLIA L., RUNNING MALLOW.

Puccinia malvacearum Bert., Rust; Payne.

MANISURIS

M. CYLINDRICA (Michx.) Kuntze, CAROLINA JOINT-TAIL.

Ellisiella caudata (Pk.) Sacc., Leaf spot; Payne.

Septoria sp., Leaf spot; Woodward.

MARRUBIUM

M. VULGARE L., COMMON HOARHOUND.

Cercospora marrubii Tharp, Leaf spot; Payne.

MEDICAGO

M. HISPIDA Gaertn., CALIFORNIA BURCLOVER.

Colletotrichum trifolii Bain, Anthracnose; Payne.

M. LUPULINA L., BLACK MEDIC.

Uromyces striatus medicaginis (Pass.) Arth., Rust; Payne.

M. SATIVA L., ALFALFA.

Agrobacterium tumefaciens (E.F.Sm.& Town.) Conn., Crown gall.

Alternaria sp., Sooty mold; Grady.

Ascochyta imperfecta Pk., Black stem; Alfalfa, Blaine, Caddo, Canadian, Creek, McCurtain, Tillman.

Cephalobus elongatus de Man, Nematode.

Cercospora zebrina Pass., Leaf spot; McCurtain, Payne.

Colletotrichum trifolii Bain, Anthracnose; Garvin, Grant, Lincoln, Okfuskee, Payne.

Corynebacterium insidiosum (McCul.) Jensen, Bacterial wilt; general with collections from Cotton, Creek, Garvin, Grant, Lincoln, Mayes, McClain, McCurtain, Murray, Oklahoma, Payne, Seminole, Texas, Tillman, Washita.

Cuscuta indecora Choisy, Dodder; Garfield.

Cuscuta sp., Dodder; Payne, Tillman.

Empusa aphidis Hoffm., Parasitic on *Illinoia pisi* on living leaves; Payne.

Fusarium spp., Root rot & Crown rot; general with collections from Caddo, Cherokee, Delaware, Garvin, Kingfisher, Lincoln, Okfuskee, Oklahoma.

Gloeosporium medicaginis Ell.& Kell. Anthracnose; Muskogee, Seminole.

Helicobasidium purpureum (Tul.) Pat., Violet root rot; Garvin, Grady, Kingfisher, Okfuskee, Oklahoma.

Heterodera marioni (Cornu) Goodey, Root knot; general with collections from Alfalfa, Haskell, Okfuskee.

Peronospora trifoliorum DeBy., Downy mildew; Okfuskee, Payne, Rogers.

Phoma medicaginis Malbr.& Roum., Black stem; general with collection from Payne.

Phyllosticta medicaginis (Fckl.) Sacc., Leaf spot; Payne.

Phymatotrichum omnivorum (Shear) Dug., Texas root rot; general in southern Oklahoma.

Pleosphaerulina briosiana Poll., Leaf spot; Payne.

Pseudomonas medicaginis Sackett, Bacterial stem blight; Alfalfa, Canadian, Garvin, Harmon, Hughes, Okfuskee, Oklahoma, Payne, Seminole.

Pseudopeziza medicaginis (Lib.) Sacc., Leaf spot; spot; Alfalfa, McClain.

Pyrenopeziza medicaginis Fckl., Leaf spot; Payne.

Rhizoctonia solani Kuhn, Damping off; Delaware, Johnston.

Sclerotium bataticola Taub., Charcoal rot; Woodward.

MEDICAGO—Continued.

- Sporonema phacidioides* Desm., Leaf spot; Canadian, Payne.
Tylenchus dipsaci (Kuhn) Bast., Stem nematode; Garvin, Payne, Pottawatomie, Washita.
Uromyces striatus medicaginis (Pass.) Arth., Rust; Carter, Cleveland, McCurtain, Muskogee, Noble, Oklahoma, Payne, Seminole, Tillman, Woodward.
Virus, Alfalfa mosaic; general with collections from Canadian, Payne, Seminole, Washita.
Nonparasitic, Heat & Drought injury; Kiowa.
Nonparasitic, Winter injury; Payne.

MELIA

- M. AZEDARACH L., CHINABERRY.
Nectria cinnabarina Tode ex Fr., Dieback; Payne.

MELICA

- M. NITENS (Scribn.) Nutt., THREEFLOWER MELIC.
Colleotrichum graminicolum (Ces.) G.W.Wils., Anthracnose; Cherokee.

MELILOTUS

- M. ALBA Desr., WHITE SWEETCLOVER.
Ascochyta pisi Lib., Leaf spot & Black stem; Blaine.
Cercospora davisii Ell.& Ev., Leaf spot; Payne, Seminole.
Colletotrichum trifolii Bain, Anthracnose; Delaware.
Fusarium sp., Root rot; Delaware.
Mycosphaerella lethalis R.E.Stone, Black stem; Seminole.
Phytomonas lathryi Manns & Taub., Streak; Seminole.
Virus, Mosaic; Canadian.
- M. OFFICINALIS (L.) Lam., YELLOW SWEETCLOVER.
Cercospora davisii Ell.& Ev., Leaf spot; Payne.

MIMOSA

- M. SP., MIMOSA.
Nectria cinnabarina Tode ex Fr., Canker; Payne.

MONARDA

- M. CLINOPODIOIDES A. Gray, BEEBALM.
Cercospora sp., Leaf spot; Payne.
- M. DISPERSA Small, PURPLE LEMON BEEBALM.
Phyllosticta decidua Ell.& Kell., Leaf spot; Murray.
- M. FISTULOSA var. MOLLIS (L.) Benth., SOFT WILDBERGAMOT BEEBALM.
Puccinia menthae Pers., Rust; Adair.

MONARDA—Continued.

- M. PUNCTATA L., SPOTTED BEEBALM.
Phyllosticta decidua Ell. & Kell., Leaf spot; McCurtain.

MONOLEPIS

- M. NUTTALLIANA (R. & S.) S. Wats., NUTTALL
MONOLEPIS.
Peronospora effusa (Grev.) Rabh., Downy mildew;
Payne.

MORUS

- M. ALBA L., WHITE MULBERRY.
Armillaria mellea Vahl ex Fr., Root rot.
Cercospora moricola Cke., Leaf spot; Payne.
Cercospora mori Pk., Leaf spot; Haskell.
Cylindrosporium ulmicola Ell. & Ev., Leaf spot;
Comanche, Payne.
Heterodera marioni (Cornu) Goodey, Root knot; Has-
kell, Payne.
Phymatotrichum omnivorum (Shear) Dug., Root rot.
Pseudomonas mori (Boyer & Lambert) F.L. Stevens,
Bacterial blight; Canadian, Muskogee, Payne.
- M. RUBRA L., RED MULBERRY.
Cylindrosporium mori Berl., Leaf spot; Payne.
Cylindrosporium ulmicola Ell. & Ev., Leaf spot; Payne.
- M. SP., MULBERRY.
Sphaeropsis mori Ell. & Ev., Canker; Payne.

MUHLENBERGIA

- M. CAPILLARIS (Lam.) Trin., HAIRAWN MUHLY.
Colletotrichum graminicolum (Ces.) G.W. Wils.,
Anthracnose; Payne.
Phyllachora vulgata Theiss. & Syd., Black spot; Payne.
- M. MEXICANA (L.) Trin., WIRESTEM MUHLY.
Colletotrichum graminicolum (Ces.) G.W. Wils.,
Anthracnose; Payne.
Puccinia schedonnardi Kell. & Swingle, Rust; Cleveland.
- M. RACEMOSA (Michx.) B.S.P., GREEN MUHLY.
Colletotrichum graminicolum (Ces.) G.W. Wils.,
Anthracnose; Payne.
- M. SCHREBERI Gmel., NIMBLEWILL.
Puccinia schedonnardi Kell. & Swingle, Rust.
- M. SOBOLIFERA (Muhl.) Trin., ROCK MUHLY.
Leptosphaeria muhlenbergiae (Ell.) Niessl, Muskogee.

MUNROA

- M. SQUARROSA (Nutt.) Torr., FALSE BUFFALOGRASS.
Septoria munroae Ell. & Barth., Leaf spot; Beaver.

MYRICA

- M. CERIFERA L., SOUTHERN WAXMYRTLE.
Ramularia moniloides Ell. & Mart., Leaf spot; Payne.

NANDINA

- N. DOMESTICA Thunb., NANDINA.
Cercospora nandinae Nagatomo, Leaf spot; Payne.
Glomerella cingulata (Ston.) Spauld. & Schrenk,
 Anthracnose; Payne.
Phyllosticta nandinae Tassi, Leaf spot; Oklahoma.

NARCISSUS

- N. SPP., NARCISSUS.
Aspergillus sp., Bulb rot; Oklahoma.
Botrytis sp., Blight.
Penicillium sp., Bulb rot; Oklahoma.
Virus, Narcissus mosaic; Payne.

NELUMBO

- N. LUTEA (Willd.) Pers., AMERICAN LOTUS: WATER
 CHINKAPIN.
Alternaria nelumbii Enlows & Rand, Leaf spot; Payne.

NICOTIANA

- N. TABACUM L., COMMON TOBACCO.
Bacterium solanacearum E.F.Sm., Bacterial wilt.
Pseudomonas tabaci (Wolf & Foster) Stapp, Fire
 blight.
Thielavia basicola (B. & Br.) Zopf, Root rot.
Virus, Tobacco mosaic.

NOTHOSCORDUM

- N. BIVALVE (L.) Britton, YELLOW FALSEGARLIC.
Colletotrichum sp., Anthracnose; Payne.
Uromyces hordeinus Arth., Rust.
Uromyces primaverilis Speg., Rust; Payne.

NYMPHAEA

- N. ODORATA Ait., AMERICAN WATERLILY.
Entyloma nymphaeae (Cunn.) Setch., Leaf smut;
 Payne.

OENOTHERA

- O. BIENNIS L., COMMON EVENINGPRIMROSE.
Septoria oenotherae Westd., Leaf spot; Cleveland.
Uromyces plumbarius Peck, Rust.
- O. LACINIATA Hill, CUTLEAF EVENINGPRIMROSE.
Peronospora arthuri Farl., Downy mildew; Payne.
Septoria oenotherae Westd., Leaf spot; Creek, Greer,
Murray, Muskogee, Payne.
Synchytrium fulgens Schroet.; Payne.
Uromyces plumbarius Peck, Rust.
- O. MISSOURIENSIS Sims, OZARK SUNDROPS.
Septoria oenotherae Westd., Leaf spot; Ellis, McClain,
Noble, Payne.
- O. MISSOURIENSIS var. INCANA A. Gray.
Septoria oenotherae Westd., Leaf spot; Ellis.
- O. OKLAHOMENSIS (Norton) Lev., OKLAHOMA EVE-
NINGPRIMROSE.
Septoria oenotherae Westd., Leaf spot; Payne.
- O. PALLIDA Lindl., PALE EVENINGPRIMROSE.
Septoria oenotherae Westd., Leaf spot; McClain.
- O. RHOMBIPETALA Nutt., RHOMBICPETALED
EVENINGPRIMROSE.
Septoria oenotherae Westd., Leaf spot; Oklahoma.
- O. SERRULATA Nutt., SERRATELEAF EVENING-
PRIMROSE.
Pestalotia oenotherae Ell.& Barth., Leaf spot; Payne.
Septoria oenotherae Westd., Leaf spot; Payne.
- O. SPECIOSA Nutt., SHOWY EVENINGPRIMROSE.
Septoria oenotherae Westd., Leaf spot; Caddo, Grady,
Kay, Murray, Pawnee, Payne.
- O. SPP., EVENINGPRIMROSE.
Cuscuta arvensis Beyrich, Dodder; Oklahoma.
Puccinia extensicola oenotherae (Mont.) Arth., Rust.

OPUNTIA

- O. RAFINESQUII Engelm., COMMON PRICKLYPEAR.
Erwinia cactida (Johnst.& Hitch.) Winslow et al.,
Bacterial rot; general.
Phoma sp., Stem rot; general with collection from
Osage.
Phyllosticta concava Seaver, Leaf spot; Oklahoma.

ORNITHOGALUM

- O. THYRSOIDES Jacq. var. AUREUM, GOLDEN CAPE CHINKERICHEE.
Virus, Ornithogalum mosaic; Payne.

OXALIS

- O. CORNICULATA L., CREEPING OXALIS.
Puccinia andropogonis oxalidis Arth., Rust; southern part of state.
- O. FILIPES Small, SLENDER YELLOW WOODSORREL.
Puccinia sorghi Schw., Rust.
- O. VIOLACEA L., VIOLET WOODSORREL.
Puccinia sorghi Schw., Rust; Pawnee, Payne.

PAEONIA

- P. SPP., PEONY.
Alternaria sp., Leaf spot; Murray.
Botrytis paeoniae Oud., Blight; Murray.
Cercospora paeoniae Tehon & Daniels, Leaf spot; Tulsa.
Cladosporium paeoniae Pass., Leaf blotch; Oklahoma.
Discosia artocreas Tode ex Fr., Leaf spot; Murray.
Phyllosticta commonsii Ell. & Ev., Leaf spot; Garfield.

PANICUM

- P. BOSCHII var. MOLLE (Vasey) Hitchc. & Chase.
Colletotrichum graminicolum (Ces.) G.W. Wils., Anthracnose; Payne.
- P. CAPILLARE L., COMMON WITCHGRASS.
Puccinia emaculata Schw., Rust.
- P. CLANDESTINUM L., CORN GRASS: DEER TONGUE GRASS.
Septoria sp., Leaf spot; Payne.
- P. COMMUTATUM Schultes, VARIABLE PANICUM.
Phyllachora punctum (Schw.) Orton, Black spot; McCurtain.
- P. HUACHUCAE var. FASCICULATUM (Torr.) Hubb.
Phyllachora punctum (Schw.) Orton, Black spot; Cherokee.
- P. OBTUSUM HBK., VINE-MESQUITE.
Phyllachora wilsoni Orton, Black spot; Lincoln, Payne.
Phyllosticta sp., Leaf spot; Payne.
- P. TENNESSEENSE Ashe, TENNESSEE PANICUM.
Phyllachora punctum (Schw.) Orton, Black spot; Payne.
- P. TEXANUM Buckl., TEXAS PANICUM.
Chaetomella atra Fckl., Canadian.

PANICUM—Continued.

- P. VIRGATUM L., SWITCHGRASS.
Darluca filum (Biv.) Cast., Parasitic on *Uromyces graminicola* Burr. on living leaves; Payne.
Phyllachora graminis (Pers. ex Fr.) Fckl., Black spot; Craig.
Puccinia panici Diet., Rust; Craig.
Septoria sp., Leaf spot.
Tilletia pulcherrima Ell. & Gall., Kernel smut; Payne.
Uromyces graminicola Burr., Rust; Okfuskee, Osage, Payne.

PARTHENOCISSUS

- P. QUINQUEFOLIA (L.) Planch., VIRGINIA CREEPER.
Phyllosticta viticola (Berk. & Curt.) Thum., Leaf spot; Adair.
P. TRICUSPIDATA (Sieb. & Zucc.) Planch., JAPANESE CREEPER; BOSTON IVY.
Guignardia bidwellii (Ell.) Viala & Ravaz, Black rot; Grady.

PASPALUM

- P. STRAMINEUM Nash, SAND PASPALUM.
Cercospora paspali Ray, Leaf spot; Payne.
Phyllachora wilsoni Orton, Black spot.
Puccinia emaculata Schw., Rust; Payne.
Puccinia substriata Ell. & Barth., Rust.
P. SP., PASPALUM.
Phaeosphaerella paspali Tehon, Leaf spot; Payne.

PASSIFLORA

- P. INCARNATA L., MAYPOP PASSIONFLOWER.
Cercospora biformis Peck, Leaf spot; Payne, Pittsburg.

PASTINACA

- P. SATIVA L., GARDEN PARSNIP.
Heterodera marioni (Cornu) Goodey, Root knot; Comanche, Tulsa.

PENSTEMON

- P. COBAEA Nutt., COBAEA PENSTEMON.
Cercospora pentstemonis Ell. & Kell., Leaf spot; Pawnee.
P. JAMESII Benth., JAMES PENSTEMON.
Puccinia andropogonis pentstemonis (Schw.) Arth., Rust.

PENSTEMON—Continued.

- P. PALLIDUS Small, PALE PENSTEMON.
Cercospora pentstemonis Ell. & Kell., Leaf spot; Payne.
- P. TENUIFLORUS Pennell.
Puccinia andropogonis pentstemonis (Schw.) Arth.,
Rust.

PEROVSKIA

- P. ATRIPLICIFOLIA Benth., RUSSIANSAGE PEROVSKA.
Cylindrosporium sp., Leaf spot; Payne.
Phoma sp., Stem canker; Payne.

PETALOSTEMUM

- P. OLIGOPHYLLUM (Torr.) Rydb., SLENDER WHITE
PRAIRIECLOVER.
Pyrenophora comata (Awd. & Niessl) Sacc.; Murray.
- P. PURPUREUM (Vent.) Rydb., PURPLE PRAIRIE-
CLOVER.
Pyrenophora comata (Awd. & Niessl) Sacc.; Murray.

PETROSELINUM

- P. CRISPUM (Mill.) Nym., COMMON GARDEN
PARSLEY.
Septoria petroselini Desm., Leaf spot; Oklahoma,
Payne.

PETUNIA

- XP. HYBRIDA Vilm., COMMON PETUNIA.
Cercospora petuniae Mull. & Chupp, Leaf blotch;
Payne.
Custuta sp., Dodder; Harper, Pittsburg.
Virus, Cucumber mosaic; Carter, Payne.

PHALARIS

- P. ANGUSTA Nees, TIMOTHY CANARYGRASS.
Puccinia graminis Pers., Stem rust.
Puccinia sessilis Schneid., Leaf rust.
- P. CAROLINIANA Walt., CAROLINA CANARYGRASS.
Puccinia coronata Cda., Crown rust; general.
- P. TUBEROSA var. STENOPTERA (Hack.) Hitchc.,
HARDINGGRASS.
Cercospora sp., Leaf spot; Payne.
Colletotrichum graminicolum (Ces.) G.W. Wils.,
Anthracnose; Payne.

PHASEOLUS

- P. AUREUS Roxb., MUNG BEAN.
Heterodera marioni (Cornu) Goodey, Root knot; Oklahoma.
Nematospora coryli Peglion, Yeast spot; Payne.
Sclerotium bataticola Taub., Charcoal rot; Garfield.
Xanthomonas phaseoli (E.F.Sm.) Dowson, Leaf & pod blight; Garfield.
- P. LUNATUS L., LIMA BEAN.
Cercospora cruenta Sacc., Leaf spot; Cleveland.
Colletotrichum truncatum (Schw.) Andrus & Moore, Anthracnose; Payne.
Pseudomonas syringae Van Hall, Bacterial spot; Payne.
- P. VULGARIS L., BEAN.
Alternaria fasciculata (Cke. & Ell.) Jones & Grout, Leaf spot; general with collection from Seminole.
Bacterium solanacearum E.F.Sm., Bacterial wilt; Okmulgee.
Colletotrichum lindemuthianum (Sacc. & Magn.) Briosi & Cav., Anthracnose; general with collections from Le Flore, Payne, Seminole.
Fusarium martii var. *phaseoli* Burk., Dry root rot; Cleveland, Seminole.
Fusarium spp., Root rot; Carter, Hughes, Nowata.
Heterodera marioni (Cornu) Goodey, Root knot; general with collections from Beckham, Carter, Grady, Payne, Seminole, Tulsa.
Pellicularia filamentosa (Pat.) Rogers, Stem rot; Adair, Hughes, Le Flore, Payne.
Phyllosticta phaseolina Sacc., Leaf spot; Payne.
Pseudomonas medicaginis var. *phaseolicola* (Burkh.) Stapp & Kotte, Halo blight; Payne.
Pythium aphanidermatum (Edson) Fitz., Cotton leak; Payne.
Rhizoctonia solani Kuhn, Stem canker; general.
Uromyces phaseoli typica Arth., Rust; Pittsburg, Wagoner.
Xanthomonas phaseoli (E.F.Sm.) Dowson, Bacterial blight; general with collections from Adair, Canadian, Cleveland, Grady, Kingfisher, Le Flore, Logan, Oklahoma, Okmulgee, Payne, Pittsburg, Seminole, Sequoyah, Tulsa.
Virus, Common bean mosaic no. 1; general with collections from Payne, Seminole.

PHELLODENDRON

- P. AMURENSE Rupr., AMUR CORKTREE.
Cercospora sp., Leaf spot; Payne.

PHILADELPHUS

- P. CORONARIUS L., SWEET MOCKORANGE.
Cercospora angulata Wint., Leaf spot; Comanche.
- P. GRANDIFLORUS Willd., BIG SCENTLESS
 MOCKORANGE.
Cercospora angulata Wint., Leaf spot; Payne.
- P. LEMOINEI Lem., LEMOINE MOCKORANGE.
Cercospora angulata Wint., Leaf spot; Payne.

PHILIBERTIA

- P. CYNANCHOIDES (Decne.) A Gray.
Puccinia obliqua Berk.& Curt., Rust; Payne.

PHLEUM

- P. PRATENSE L., TIMOTHY.
Colletotrichum graminicolum (Ces.) G.W.Wils.,
 Anthracnose; Payne.
Puccinia graminis phlei-pratensis (Erikss.& Henn.)
 Stak.& Piem., Rust.

PHLOX

- P. PILOSA subsp. TYPICA Wherry, DOWNY PHLOX.
Cercospora omphakodes Ell.& Holw., Leaf spot; Murray.
- P. SP., PHLOX.
Septoria divaricata Ell.& Ev., Leaf spot; Payne.

PHOTINIA

- P. SP., PHOTINIA.
Cercospora heteromeles Hark., Leaf spot; Oklahoma.

PHRAGMITES

- P. COMMUNIS Trin., COMMON REED.
Scolecotrichum maculicola Ell.& Kell., Leaf spot;
 Payne.

PHRYMA

- P. LEPTOSTACHYA L., AMERICAN LOPSEED.
Septoria leptostachya Ell.& Kell., Leaf spot;
 Pushmataha.

PHYSALIS

- P. ANGULATA L., CUTLEAF GROUNDCHERRY.
Entyloma australe Speg., Leaf smut; Payne.
- P. MOLLIS Nutt., VELVETY GROUNDCHERRY.
Cercospora physalidis Ell., Leaf spot; Payne.
Entyloma australe Speg., Smut; Payne.
- P. PUMILA Nutt., PRAIRIE GROUNDCHERRY.
Aecidium physalidis Burr., Rust; Osage, Payne.
- P. VIRGINIANA Mill., VIRGINIA GROUNDCHERRY.
Aecidium physalidis Burr., Rust.
- P. SP., GROUNDCHERRY.
Entyloma australe Speg., Leaf smut; Payne.

PHYSOCARPUS

- P. BRACTEATUS (Rydb.) Rehd., TWINPOD NINEBARK.
Cercospora physocarp Ray, Leaf spot; Payne.
- P. OPULIFOLIUS (L.) Maxim., COMMON NINEBARK.
Cercospora physocarp Ray, Leaf spot; Payne.

PHYSOSTEGIA

- P. VIRGINIANA (L.) Benth., VIRGINIA LIONSHEART.
Sclerotium rolfsii Sacc., Southern blight; Tulsa.

PHYTOLACCA

- P. AMERICANA L., COMMON POKEBERRY.
Cercospora flagellaris Ell. & Mart., Leaf spot; Osage, Payne.
Colletotrichum sp., Anthracnose; Payne.
Virus, Phytolacca mosaic, general with collections from McCurtain, Payne.

PICEA

- P. SP., SPRUCE.
Melampsorella cerastii (Pers.) Schroet., Rust witches' broom; Ottawa.

PINUS

- P. ECHINATA Mill., SHORTLEAF PINE.
Coleosporium ipomoeae (Schw.) Burr., Needle rust; Atoka, McCurtain.
Dothistroma pini Hulbary, Needle blight; Payne.
- P. NIGRA var. AUSTRIACA (Hoess) Aschers. & Graebn., AUSTRIAN PINE.
Dothistroma pini Hulbary, Needle blight; Oklahoma, Ottawa, Pawnee.

PINUS—Continued.

P. SPP., PINE.

Fomes sp., Wood rot; Oklahoma.

Lenzites saepiaria Wulf. ex Fr., Wood rot; Payne.

Nonparasitic, Browning.

PIQUERIA

P. TRINERVIA Cav., FRAGRANT PIQUERIA.

Pythium sp., Root rot; Oklahoma.

PISUM

P. SATIVUM L., GARDEN PEA.

Ascochyta pisi Lib., Anthracnose; Payne.

Botrytis cinerea Pers., Gray mold; Payne.

Erysiphe polygoni DC., Powdery mildew; Payne,
Seminole.

Pseudomonas pisi Sackett, Bacterial blight; Muskogee,
Seminole, Tulsa.

Rhizoctonia solani Kuhn, Root rot; Payne, Tulsa.

Septoria pisi Westd., Leaf spot; Payne.

P. SATIVUM var. ARVENSE Poir., FIELD PEA:
AUSTRIAN WINTER PEA.

Ascochyta pisi Lib., Canker; Payne.

Erysiphe polygoni DC., Powdery mildew.

Peronospora viciae (Berk.) DeBy., Downy mildew.

Pseudomonas pisi Sackett, Bacterial blight; Payne.

PLANTAGO

P. ARISTATA Michx., BOTTLEBRUSH INDIANWHEAT.

Ascochyta plantaginis Sacc. & Speg., Leaf spot; Pawnee.

Uromyces peckianus Farl., Rust; Payne.

P. HETEROPHYLLA Nutt., MANYSEEDED PLANTAIN.

Uromyces peckianus Farl., Rust.

P. MAJOR L., RIPPLESEED PLANTAIN.

Ascochyta plantaginis Sacc. & Speg., Leaf spot; Payne.

Erysiphe cichoracearum DC., Powdery mildew; Payne.

Septoria sp., Leaf spot; Murray.

P. PURSHII R. & S., WOOLY INDIANWHEAT.

Septoria inconspicua Berk. & Curt., Leaf spot; Kay.

Uromyces peckianus Farl., Rust; Payne.

P. VIRGINICA L., PALESEED PLANTAIN.

Uromyces peckianus Farl., Rust; Payne.

PLATANUS

P. OCCIDENTALIS L., AMERICAN PLANETREE:
SYCAMORE.

- Armillaria mellea* Vahl ex Fr., Mushroom root rot;
Custer.
Cytospora platani Fckl., Canker; Oklahoma.
Gnomonia veneta (Sacc. & Speg.) Kleb., Anthracnose
& twig blight; general with collections from Adair,
Comanche, Creek, Grady, Logan, Okmulgee,
Payne, Tulsa, Washita.
Hypoxylon sp. Dieback; Hughes.
Microsphaera alni DC. ex Wint., Powdery mildew;
Choctaw.
Mycosphaerella polymorpha D.J. Smith & C.O. Smith,
Leaf spot.

PLATYCODON

P. GRANDIFLORUM (Jacq.) A. DC., BALLOONFLOWER.
Botrytis sp., Blight; Kay.

POA

- P. AMPLA Merr., BIG BLUEGRASS.
Colletotrichum graminicolum (Ces.) G.W. Wils.,
Anthracnose; Payne.
P. CANBYI (Scribn.) Piper, CANBY BLUEGRASS
Colletotrichum graminicolum (Ces.) G.W. Wils.,
Anthracnose; Payne.
P. COMPRESSA L., CANADA BLUEGRASS.
Erysiphe graminis DC., Powdery mildew; Payne.
P. PRATENSIS L., KENTUCKY BLUEGRASS.
Ustilago striaeformis (Westd.) Niessl, Stripe smut;
Payne.

PODOPHYLLUM

- P. PELTATUM L., COMMON MAYAPPLE.
Phyllosticta podophylli (M.A. Curt.) Wint., Leaf spot;
Adair, Cherokee.
Puccinia podophylli Schw., Rust; Adair, Atoka, Chero-
kee, Delaware, Mayes, McCurtain.

POINCIANA

- P. GILLIESI Hook., PARADISE POINCIANA.
Cytospora sp., Payne.
Cytosporina sp., Dieback; Payne.
Nectria cinnabarina Tode ex Fr., Canker; Payne.

POLYGONUM

- P. AVICULARE L., PROSTRATE KNOTWEED.
Erysiphe polygoni DC., Powdery mildew; Payne
- P. DUMETORUM L., HEDGE KNOTWEED.
Puccinia polygoni-amphibii convolvuli (Alb.& Schw.)
Arth., Rust; Muskogee.
- P. HARTWRIGHTII A. Gray, KNOTWEED.
Puccinia polygoni-amphibii persicariae (Str.) Arth.,
Rust.
- P. LAPATHIFOLIUM L., CURLTOP LADYSTHUMB.
Melanopsichium austro-americanum (Speg.) G.Beck,
Smut; Payne.
Puccinia polygoni-amphibii Pers., Rust; Payne.
- P. PENNSYLVANICUM L., PENNSYLVANIA SMARTWEED.
Cercospora avicularis Wint., Leaf spot; Payne.
Cercospora hydropiperis (Thum.) Speg., Leaf spot;
Payne.
Melanopsichium austro-americanum (Speg.) G.Beck,
Smut; Payne.
Septoria polygonorum Desm., Leaf spot; Payne.
- P. PUNCTATUM Ell., DOTTED SMARTWEED.
Puccinia polygoni-amphibii persicariae (Str.) Arth.,
Rust.
- P. SCANDENS L., HEDGE CORNBIND.
Puccinia polygoni-amphibii convolvuli (A.& S.) Arth.,
Rust; Payne.

POLYPOGON

- P. MONSPELIENSIS (L.) Desf., RABBITFOOT
POLYPOGON.
Erysiphe graminis DC., Powdery mildew; Murray.
Puccinia coronata Cda., Crown rust; Murray.

POPULUS

- P. ALBA L., WHITE POPLAR.
Marssonina populi (Lib.) Magn., Leaf spot; Payne.
- P. ALBA var. PYRAMIDALIS Bunge, BOLLEANA
POPLAR.
Phyllosticta brunnea (Dearn.& House) Dearn.&
Barth., Leaf spot; Payne.
- P. ANGUSTIFOLIA James, NARROWLEAF POPLAR.
Melampsora albertensis Arth., Leaf rust; Payne.
Phyllosticta brunnea (Dearn.& House) Dearn.&
Barth., Leaf spot; Oklahoma.

POPULUS—Continued.

- P. DELTOIDES Marsh., EASTERN POPLAR: COTTONWOOD,
Cytospora chrysosperma Pers. ex Fr., Canker; Payne.
Darlucal filum (Biv.) Cast., Parasitic on *Melampsora medusae* Thum.; Payne.
Melampsora medusae Thum., Rust; Payne.
Nectria cinnabarina Tode ex Fr., Canker; Payne.
Phoradendron flavescens (Pursh) Nutt., Mistletoe; Payne.
Septoria musiva Pk., Leaf spot; Payne, Pontotoc.
Septoria populi Desm., Leaf spot; Oklahoma.
- P. NIGRA var. ITALICA Muench., LOMBARDY POPLAR.
Dothichiza populea Sacc. & Briard, Branch canker; Oklahoma.
- P. SARGENTII Dode, PLAINS POPLAR.
Melampsora abietis-canadensis (Farl.) Ludwig, Leaf rust; Payne.
- P. SPP., POPLAR: COTTONWOOD: ASPEN.
Cytospora chrysosperma Pers. ex Fr., Canker.
Dothichiza populea Sacc. & Briard, Branch canker.
Melampsora albertensis Arth., Leaf rust; Payne.
Melampsora medusae Thum., Leaf rust; Payne.
Phaeotrype sp.; Mayes.
Phymatotrichum omnivorum (Shear) Dug., Texas root rot; Johnston.
Valsa sp., Canker; Payne.

PORTULACA

- P. OLERACEA L., COMMON PURSLANE.
Albugo portulacae (DC.) O.Kuntze, White rust; Payne.

PRUNUS

- P. AMERICANA Marsh., AMERICAN PLUM.
Taphrina communis (Sadeb.) Gies., Leaf hypertrophy; Mayes.
Tranzschelia pruni-spinosae (Pers.) Diet., Rust; Payne.
- P. ANGUSTIFOLIA Marsh., CHICKASAW PLUM.
Taphrina mirabilis (Atk.) Gies, Leaf blister; Muskogee, Payne.
Tranzschelia pruni-spinosae (Pers.) Diet., Rust; Payne.
- P. ARMENIACA L., APRICOT.
Coccomyces hiemalis Higgins, Leaf spot; Osage.
Monilinia fructicola (Wint.) Honey, American brown rot; general.
Phymatotrichum omnivorum (Shear) Dug., Root rot.

PRUNUS—Continued.

- Xanthomonas pruni* (E.F.Sm.) Dowson, Bacterial spot; general with collections from Bryan, Cherokee, Garfield, Osage.
- P. BESSEYI Bailey, BESSEY CHERRY: WESTERN SAND CHERRY.
Tranzschelia pruni-spinosae (Pers.) Diet., Rust; Payne.
- P. CAROLINIANA Ait., CAROLINA LAURELCHERRY.
Cercospora sp., Leaf spot.
- P. CERASUS L., SOUR CHERRY.
Coccomyces hiemalis Higgins, Leaf spot: Shot hole; Payne.
Podosphaera oxycanthae (DC.) DeBy., Powdery mildew; Kay, Payne, Tulsa.
- P. MUNSONIANA Wight & Hedr., WILDGOOSE PLUM.
Tranzschelia pruni-spinosae (Pers.) Diet., Rust; Payne. Payne.
- P. ORTHOSEPALA Koehne.
Tranzschelia pruni-spinosae (Pers.) Diet., Rust; Payne.
- P. PERSICA (L.) Batsch., PEACH.
Agrobacterium tumefaciens (E.F.Sm. & Town.) Conn, Crown gall; Bryan, Ellis, Garfield, Grady, McCurtain, Woodward.
Armillaria mellea Vahl ex Fr., Mushroom root rot; Beckham, Cherokee.
Cephalothecium roseum Cda., Pink mold; Payne.
Cercospora persicae Sacc., Frosty mildew.
Cladosporium carpophilum Thum., Scab; Adair, Bryan, Cherokee, Delaware, Garvin, Le Flore, Logan, McCurtain, Okmulgee, Payne, Tulsa, Woods.
Clitocybe monadelphica (Morgan) Sacc., Root rot.
Coryneum beijerinckii Oud., Blight; general.
Cytospora leucostoma Sacc., Dieback: Canker; Cotton, Lincoln, Payne.
Heterodera marioni (Cornu) Goodey, Root knot; Carter, McCurtain, Oklahoma, Payne.
Monilinia fructicola (Wint.) Honey, Brown rot; Bryan, Choctaw, Cleveland, Garvin, Haskell, Le Flore, Logan, McCurtain, Muskogee, Payne, Tulsa.
Pseudomonas syringae van Hall, Bud blight: Canker: Gummosis; Grant.
Rhizopus nigricans Ehrenb. ex Fr., Fruit rot.
Stereum purpureum Pers. ex Fr., Silver leaf; Oklahoma.
Taphrina deformans (Berk.) Tul., Leaf curl; Bryan,

PRUNUS—Continued.

Carter, Choctaw, Creek, Garfield, Garvin, Grant, Hughes, Jefferson, Marshall, Mayes, Okmulgee, Osage, Payne, Sequoyah, Tulsa.

Valsa leucostoma Pers. ex Fr., Dieback; Delaware, Johnston, Lincoln, Payne.

Xanthomonas pruni (E.F.Sm.) Dowson, Bacterial blight; Adair, Bryan, Carter, Choctaw, Cleveland, Craig, Dewey, Garvin, Grady, Grant, Haskell, Lincoln, Love, Marshall, McCurtain, Muskogee, Payne, Roger Mills, Tulsa, Wagoner, Woodward.

Prunus virus 1 (Kunkel) Smith, Yellow.

Prunus virus 2 (McClint.) Smith, Rosette; Oklahoma, Payne.

Prunus virus 3 (Hutch.) Smith, Phony disease.

Prunus virus 5 (Hutch.) Smith, Mosaic; Bryan, Woods.

Nonparasitic, Hail injury; general.

Nonparasitic, Late frost injury; general.

Undetermined, Angular yellow spot; McCurtain.

Undetermined, Stipple spot; Bryan.

P. PERSICA var. NECTARINA (Ait.) Maxim.,
NECTARINE.

Heterodera marioni (Cornu) Goodey, Root knot; Payne.

Xanthomonas pruni (E.F.Sm.) Dowson, Bacterial leaf spot; Cleveland, Payne.

P. SEROTINA Ehrh., BLACK CHERRY.

Poria sp., Wood rot; Payne.

P. SPP., CHERRY.

Agrobacterium tumefaciens (E.F.Sm. & Town.) Conn, Crown gall; Caddo.

Armillaria mellea Vahl ex Fr., Mushroom root rot; Oklahoma.

Clitocybe parasitica E.M. Wilcox, Root rot; Oklahoma.

Coccomyces hiemalis Higgins, Leaf spot: shot hole; general with collections from Cleveland, Garvin, Grady, Haskell, Okfuskee, Oklahoma, Payne, Tulsa.

Dibotryon morbosum (Schw.) Theiss. & Syd., Black knot.

Monilinia fructicola (Wint.) Honey, American brown rot; general with collections from Cleveland, Garvin.

Podosphaera oxycanthae (DC.) DeBy., Powdery mildew; general with collections from Okmulgee, Pottawatomie, Washington.

Pseudomonas syringae van Hall, Gummosis.

Schizophyllum commune Fr., Sap rot; Pontotoc.

Taphrina communis (Sadeb.) Gies., Pockets; Muskogee.

Tranzschelia pruni-spinosae (Pers.) Diet., Rust.

PRUNUS—Continued.

Valsa leucostoma Pers. ex Fr., Dieback; Canadian.
Xanthomonas pruni (E.F.Sm.) Dowson, Bacterial spot; general with collections from Creek, Nowata, Oklahoma, Osage, Pontotoc, Seminole, Tulsa.
Xylaria sp., Black root rot; Oklahoma.
Nonparasitic, Late frost injury; general.

P. SPP., PLUM.

Agrobacterium tumefaciens (E.F.Sm.& Town.) Conn, Crown gall; Caddo, Seminole.
Armillaria mellea Vahl ex Fr., Mushroom rot; Custer.
Cladosporium carpophilum Thum., Scab; Comanche.
Clitocybe sp., Root rot; Lincoln, Oklahoma.
Coccomyces hiemalis Higgins, Leaf spot: shot hole; Caddo, Okfuskee, Payne.
Coccomyces prunophorae Higgins, Leaf spot: shot hole; Payne.
Dibotryon morbosum (Schw.) Theiss.& Syd., Black knot; general with collections from Blaine, Delaware, McCurtain, Noble, Oklahoma, Payne, Roger Mills, Woodward.
Erwinia amylovora (Burr.) Winslow et al., Fire blight; McClain, Okmulgee.
Monilinia fructicola (Wint.) Honey, American brown rot; general with collections from Adair, Bryan, Cherokee, Logan, McCurtain, Muskogee, Payne, Seminole, Tulsa.
Rhizoctonia solani Kuhn, Root rot; Cotton.
Sphaeropsis sp., Canker; Payne.
Taphrina communis (Sadeb.) Gies., Pockets; general with collections from Bryan, Carter, Custer, Garfield, Garfield, McCurtain, McIntosh, Muskogee, Ottawa, Payne, Rogers.
Tranzschelia pruni-spinosae (Pers.) Diet., Rust; general with collections from Carter, Creek, Ellis, Grady, Haskell, Okmulgee, Pawnee, Payne, Pittsburg, Pontotoc, Roger Mills.
Xanthomonas pruni (E.F.Sm.) Dowson, Bacterial spot; general with collections from Adair, Canadian, Cleveland, Creek, Grady, Haskell, Logan, Oklahoma, Ottawa, Payne, Roger Mills, Seminole.
Nonparasitic, Kelsey spot: Sunscald; general with collection from Payne.
Nonparasitic, Late frost injury; general.

P. SP.

Taphrina mirabilis (Atk.) Gies.; McIntosh.

PSORALEA

- P. CUSPIDATA Pursh, TALLBREAD SCURFPEA.
Parodiella perisporioides (B.& C.) Speg., Black spot;
Murray.
- P. DIGITATA Nutt., DIGITATE SCURFPEA.
Cercospora psoraleae Ray, Leaf spot; Payne.
Cuscuta arvensis Beyrich, Dodder; Cleveland, Payne.
- P. TENUIFLORA Pursh, SLIMFLOWER SCURFPEA.
Parodiella griffithsii Theiss.& Syd., Black spot; Payne.
Uromyces psoraleae argophyllae (Seym.) Arth., Rust;
Payne.
- P. TENUIFLORA var. FLORIBUNDA (Nutt.) Rydb.
Parodiella perisporioides (Berk.& Curt.) Speg., Black
spot; Payne, Pottawatomie.
Uromyces psoraleae argophyllae (Seym.) Arth., Rust;
Payne.

PTELEA

- P. TRIFOLIATA L., COMMON HOPTREE.
Alternaria tenuis Nees ex Fr., Leaf spot; Payne.
Cercospora pteleae Wint., Leaf spot; Le Flore.
Puccinia windsoriae Schw., Rust; Payne.
Septoria pteleae Ell.& Ev., Leaf spot; Payne.

PUERARIA

- P. THUNBERGIANA Benth., KUDZU.
Pseudomonas medicaginis var. *phaseolicola* (Burkh.)
Stapp & Kotte; Payne.

PYCNANTHEMUM

- P. PILOSUM Nutt., HAIRY MOUNTAINMINT.
Puccinia menthae Pers., Rust; Le Flore.

PYRACANTHA

- P. COCCINEA var. LALANDII Dipp., LALAND FIRE-
THORN.
Venturia inaequalis (Cke.) Wint., Scab; Payne.
- P. SPP., FIRETHORN: PYRACANTHA.
Erwinia amylovora (Burr.) Winslow et al., Fire blight.
Fusicoccum sp., Canker.

PYRRHOPAPPUS

- P. CAROLINIANUS (Walt.) DC., LEAFSYSTEM
FALSEDANDELION.
Puccinia hieracii (Schum.) Mart., Rust; Payne,
Pushmataha.

PYRRHOPAPPUS—Continued.

- Septoria* sp., Leaf spot; Payne.
- P. GRANDIFLORUS Nutt., ROUGH FALSEDANDELION.
Puccinia hieracii (Schum.) Mart., Rust.
- P. MULTICAULIS DC.
Puccinia hieracii (Schum.) Mart., Rust; Payne.
Septoria sp., Leaf spot; Payne.

PYRUS

- P. COMMUNIS L., COMMON PEAR.
Entomosporium maculatum Lev., Leaf spot; Bryan, Garvin, Pawnee, Payne.
Erwinia amylovora (Burr.) Winslow et al., Fire blight; general with collections from Bryan, Choctaw, Creek, Garvin, Kingfisher, Le Flore, McClain, McCurtain, McIntosh, Muskogee, Noble, Nowata, Oklahoma, Pawnee, Payne, Pittsburg, Seminole, Tulsa, Washita.
Fabraea maculata (Lev.) Atk., Leaf blight; general with collections from Bryan, Garvin, Pawnee, Payne.
Gloeodes pomigena (Schw.) Colby, Sooty blotch; general with collections from Le Flore, Payne.
Mycosphaerella sentina (Fr.) Schroet., Ashy leaf spot; Haskell
Phyllosticta solitaria Ell. & Ev., Blotch; Bryan.
Phymatotrichum omnivorum (shear) Dug., Texas root rot.
Phyalospora obtusa (Schw.) Cke., Black rot; Garvin, Payne.
Septoria pyricola Desm., Leaf spot; Garfield, Haskell.
Venturia pyrina Aderh., Scab; general with collection from Le Flore.
Nonparasitic, Frost injury; Bryan.
Undetermined, Brown blotch of fruit; Creek.

QUAMOCLIT

- Q. COCCINEA (L.) Moench, SCARLET STARGLORY.
Albugo ipomoeae-panduranae (Schw.) Swingle, White rust; Logan.

QUERCUS

- Q. ALBA L., WHITE OAK.
Macrophoma nervicola Ell. & Ev., Leaf spot; Le Flore.
Polyporus dryadeus Pers. ex Fr., White root rot.
Taphrina caerulescens (Desm. & Mont.) Tul., Leaf blister; Pushmataha.
- Q. COCCINEA Muench., SCARLET OAK.
Septoria dryina Cke., Leaf spot; Payne.

QUERCUS—Continued.

- Q. MACROCARPA Michx., BUR OAK.
Clitocybe tabescens (Scop. ex Fr.) Bres., Root rot.
Lenzites sp., Wood rot; Payne.
Polyporus versicolor L. ex Fr., Wood rot; Payne.
Stereum sp., Wood rot; Payne.
Valsa macrocarpa Ell. & Ev., Canker; Payne.
- Q. MARILANDICA Muench., BLACKJACK OAK.
Clitocybe tabescens (Scop. ex Fr.) Bres., Root rot.
Hypoxylon atropunctatum (Schw. ex Fr.) Cke., Wood rot; Mayes, Payne.
Monochaetia desmazierii Sacc., Leaf spot; Lincoln.
Phoradendron flavescens (Pursh) Nutt., Mistletoe; McClain.
Phyllactinia corylea Pers. ex Karst., Powdery mildew; Payne.
Polyporus dryadeus Pers. ex Fr., Root & Butt rot.
Polyporus dryophilus Berk., White pocket heart rot.
Polyporus obtusus Berk., Rot; Payne.
Septoria dryina Cke., Leaf spot; Payne.
Taphrina caerulescens (Desm. & Mont.) Tul., Leaf blister; Coal, Hughes, McCurtain.
- Q. MUHLENBERGII Engelm., CHINKAPIN OAK.
Actinopelte dryina (Sacc.) Hoehn., Leaf spot; Payne.
Marssonina martini (Sacc. & Ell.) P. Magn., Leaf spot; Payne.
Microsphaera alni DC. ex Wint., Powdery mildew; Washington.
- Q. NIGRA L., WATER OAK.
Gloeosporium sp., Leaf spot; Choctaw.
- Q. PALUSTRIS Muench, PIN OAK.
Cytospora chrysosperma Pers. ex Fr., Twig canker; Payne.
Septoria dryina Cke., Leaf spot; Bryan.
- Q. RUBRA L. (*Q. falcata* Michx.) SOUTHERN RED OAK.
Microsphaera alni DC. ex Wint., Powdery mildew; Atoka
- Q. RUBRA f. TRILOBA (Michx.) Trel., THREELOBE RED OAK.
Phoradendron flavescens (Pursh) Nutt., Mistletoe; McClain.
Taphrina caerulescens (Desm. & Mont.) Tul., Leaf blister; McCurtain.
- Q. STELLATA Wang., PCST OAK.
Marssonina martini (Sacc. & Ell.) P. Magn., Leaf spot; Payne.

QUERCUS—Continued.

Microsphaera alni DC. ex Wint., Powdery mildew; Payne.

Phoradendron flavescens (Pursh) Nutt., Mistletoe; McClain.

Phyllosticta livida Ell. & Mart., Leaf spot; Lincoln.

Q. SPP., OAK.

Coryneum kunzei Cda., Twig & branch canker: Dieback; Seminole.

Cronartium quercuum (Berk.) Miyabe, Rust; Payne.

Daedalea unicolor Bull. ex Fr., Wood rot; Payne.

Daldinia concentrica (Bolt. ex Fr.) Ces. & DeNot.; Payne.

Fomes everhartii (Ell. & Gall.) Schrenk, Trunk canker; Tulsa.

Fomes igniarius (L. ex Fr.) Kickx, White mottled heart rot.

Fomes ohiensis (Berk.) Murr., Heart rot; Payne.

Fumago vagans Pers., Sooty mold; McCurtain.

Gnomonia veneta (Sacc. & Speg.) Kleb., Anthracnose; Oklahoma.

Morenoella quercina (Ell. & Mart.) Thiess., Black Leaf spot; Delaware, McCurtain.

Mycosphaerella sp., Leaf spot; Payne.

Peniophora sp., Wood rot; Payne.

Polyporus arcularius Batsch ex Fr.; Payne.

Polyporus dichrous Fr.; Payne.

Polyporus dryadeus Pers. ex Fr., White pocket butt rot.

Polyporus gilvus (Schw.) Fr., Wood rot; Mayes, Payne.

Polyporus hirsutus Wulf. ex Fr.; Mayes, Payne.

Polyporus versicolor L. ex Fr.; Mayes.

Stereum fasciatum Schw.; Mayes.

Stereum frustulosum Pers. ex Fr., Sprout butt rot & White pocket heart rot; Payne.

Stereum lobatum (Ktze.) Fr., Wood rot.

Stereum rameale Schw.; Delaware.

Taphrina caerulescens (Des. & Mont.) Tul., Leaf blister; Hughes, Pushmataha.

Trametes sepium Berk., Wood rot; Payne.

RAPHANUS

R. SATIVUS L., GARDEN RADISH.

Albugo candida (Pers. ex Lev.) Kuntze, White rust.

Aphanomyces raphani Kendrick, Black root rot; Payne.

RAPHANUS—Continued.

Pythium aphanidermatum (Edson) Fitz., Root rot; Payne.

Rhizoctonia solani Kuhn, Root rot; Tulsa.

R. SATIVUS L., WHITE ICICLE RADISH.

Aphanomyces raphani Kendrick, Black root rot; Payne.

RHAMNUS

R. CATHARTICA L., COMMON BUCKTHORN.

Sphaeropsis rhamni Cke., Leaf spot; Payne.

RHEUM

R. RHAPONTICUM L., GARDEN RHUBARB.

Alternaria sp., Storage rot; Payne.

Erwinia carotovora (Jones) Winslow et al, Soft rot; Grady.

Fusarium sp., Root rot; Beckham, Lincoln.

Heterodera marioni (Cornu) Goodey, Root knot; Kay.

Pellicularia filamentosa (Pat.) Rogers, Stem rot; Beckham.

Phytomonas rhapontica (Millard) S.A.B., Crown rot; Beckham, Kingfisher, McCurtain, Payne.

Phytophthora cactorum (L.& C.) Schroet., Crown rot; Oklahoma.

RHODODENDRON

R. NUDEFLOSUM (L.) Torr., PINXTERBLOOM AZALEA.

Exobasidium vaccinii (Fckl.) Wor., Leaf gall; McCurtain.

R. SPP., RHODODENDRON.

Cercospora sp., Leaf spot; Tulsa.

Pestalotia rhododendri (Sacc.) Guba, Leaf spot; Tulsa.

Phyllosticta maxima Ell.& Ev., Leaf spot; Payne.

RHUS

R. AROMATICA Ait., FRAGRANT SUMAC.

Cercospora rhoisa Cke.& Ell., Leaf spot; Payne.

R. GLABRA L., SMOOTH SUMAC.

Cercospora rhoisa Cke.& Ell., Leaf spot; Payne.

R. RHOMBOIDEA Small, POISON OAK.

Pileolaria effusa Peck, Rust.

R. TOXICODENDRON L., POISON IVY.

Pileolaria toxicodendri (Berk.& Rav.) Arth., Rust; general with collection from Payne.

Septoria irregularis Pk., Leaf spot; Payne.

R. TRILOBATA Nutt., SKUNKBRUSH SUMAC.

Cercospora rhoisa Cke.& Ell., Leaf spot; Payne.

Pileolaria patzcuarensis (Holw.) Arth., Rust.

RIBES

- R.. AUREUM Pursh, GOLDEN CURRANT.
Phyllosticta grossulariae Sacc., Leaf spot; Murray.
- R. ODORATUM Wendl., CLOVE CURRANT.
Puccinia caricis grossulariata Arth., Rust.
Septoria ribis Desm., Leaf spot; Payne.
- R. SPP., GOOSEBERRY.
Agrobacterium tumefaciens (E.F.Sm.& Town.) Conn,
Crown gall; general with collection from Oklahoma.
Septoria ribis Desm., Leaf spot; Payne.

ROBINIA

- R. HISPIDA L., ROSEACACIA LOCUST.
Alternaria fasciculata (Cke.& Ell.) Jones & Grout,
Leaf spot; Payne.
- R. PSEUDOACACIA L., BLACK LOCUST.
Clitocybe illudens Schw., Heart rot; Payne.
Fomes rimosus (Berk.) Cke., Yellow spongy heart rot.
Heterodera marioni (Cornu) Goodey, Root knot;
Haskell.
Phymatotrichum omnivorum (Shear) Dug., Root rot.
Valsa sp.; Payne.

RORIPPA

- R. NASTURTIUM-AQUATICUM (L.) Schinz & Thell.,
WATERCRESS.
Cercospora nasturti Pass., Leaf spot; Murray.

ROSA

- R. SPP., ROSE.
Agrobacterium tumefaciens (E.F.Sm.& Town.) Conn,
Crown gall; general with collections from Logan, Okla-
homa, Ottawa.
Armillaria mellea Vahl ex Fr., Mushroom root rot.
Botryosphaeria ribis (Tode ex Fr.) Gross.& Dug., Cane
blight; Osage.
Botrytis cinerea Pers., Bud blight; Grady, Kingfisher,
Logan, Oklahoma, Seminole.
Cercospora hyalina Mull.& Chupp, Leaf spot; Payne.
Coniothyrium fuckelii Sacc., Stem canker: Graft
canker; general with collections from Le Flore, Okla-
homa, Ottawa, Payne, Seminole, Tulsa,
Washington.
Coryneum microstictum Berk.& Br., Canker; Delaware,
Payne.

ROSA—Continued.

Cryptosporella umbrina (Jenkins) Jenkins & Wehm., Brown canker; Rogers.

Diplocarpon rosae Wolf, Black spot; general with collections from Blaine, Caddo, Choctaw, Comanche, Creek, Grady, Haskell, Lincoln, Logan, Oklahoma, Ottawa, Pawnee, Payne, Rogers, Tulsa.

Fusarium sp., Stem rot; Caddo, Payne.

Gloeosporium rosae Halst., Anthracnose: Twig blight; Oklahoma, Payne.

Heterodera marioni (Cornu) Goodey, Root knot; Muskogee.

Phragmidium sp., Rust; Atoka, Creek.

Sphaerotheca pannosa (Wallr.) Lev., Powdery mildew; general with collections from Alfalfa, Caddo, Choctaw, Creek, Custer, Garfield, Grady, Jackson, Kay, Kiowa, Lincoln, Marshall, Noble, Nowata, Oklahoma, Okmulgee, Osage, Pawnee, Payne, Pontotoc, Pottawatomie, Seminole.

Sphaerotheca sp., Powdery mildew; Custer.

RUBUS

R. HISPIDUS L., SWAMP BLACKBERRY.

Kunkelia nitens (Schw.) Arth., Orange rust.

R. IDAEUS L., RED RASPBERRY.

Leptosphaeria coniothyrium (Fckl.) Sacc., Cane blight; Pottawatomie.

Leptothyrium pomi (Mont. & Fr.) Sacc., Fly speck, Oklahoma.

Phoma rubicola Brun., Spur blight; Oklahoma.

R. OCCIDENTALIS L., BLACK RASPBERRY.

Cylindrosporium rubi Ell. & Morg., Leaf spot; Pawnee.

R. SPP., BLACKBERRY.

Agrobacterium tumefaciens (E.F.Sm. & Town.) Conn, Crown gall; Adair, Cherokee, Choctaw, Okmulgee, Pottawatomie.

Armillaria mellea Vahl ex Fr., Mushroom root rot; Payne.

Elsinoe veneta (Speg.) Jenkins, Anthracnose; Bryan, Cleveland, Creek, Nowata, Okmulgee, Payne, Seminole.

Gymnoconia peckiana (Howe) Trott., Orange rust; Adair, Bryan, Caddo, Le Flore, Logan, McIntosh, Okmulgee, Pawnee, Payne, Pittsburg, Pottawatomie.

Kuehneola uredinis (Lk.) Arth., Yellow rust; Oklahoma.

Kunkelia nitens (Schw.) Arth., Orange rust; Adair, Delaware, McCurtain, Payne, Tulsa.

RUBUS—Continued.

Leptosphaeria coniothyrium (Fckl.) Sacc., Cane blight; Oklahoma, Payne, Tulsa.

Mycosphaerella rubi Roark, Leaf spot; general with collections from Nowata, Oklahoma, Payne, Seminole, Washita.

Septoria rubi Westd., Leaf spot; general with collections from Adair, Bryan, Canadian, Cleveland, Nowata, Oklahoma, Payne, Seminole, Washita.

Nonparasitic, Frost injury.

R. SP., BOYSENBERRY.

Agrobacterium tumefaciens (E.F.Sm. & Town.) Conn, Crown gall; Adair.

Coniothyrium sp., Cane canker; Adair.

Elsinoe veneta (Speg.) Jenkins, Anthracnose; Adair, Bryan, Choctaw, Haskell.

Gloeosporium sp., Anthracnose; Adair.

Kunkelia nitens (Schw.) Arth., Orange rust; Tulsa.

Mycosphaerella sp., Leaf spot; Adair.

R. SP. DEWBERRY.

Agrobacterium tumefaciens (E.F.Sm. & Town.) Conn, Crown gall; Lincoln.

Elsinoe veneta (Speg.) Jenkins, Anthracnose; general with collections from Adair, Beckham, Bryan, Choctaw, Garvin, Haskell, Payne, Pittsburg, Seminole.

Mycosphaerella rubi Roark, Leaf spot; Major, Seminole.

Septoria rubi Westd., Leaf spot; Grady, Major, Seminole.

R. SP., LOGANBERRY.

Mycosphaerella rubi Roark, Leaf spot; Payne.

R. SP., RASPBERRY.

Agrobacterium tumefaciens (E.F.Sm. & Town.) Conn, Crown gall; general.

Coniothyrium fuckelii Sacc., Cane blight; Graft canker; Carter.

Cylindrosporium rubi Ell. & Morgan, Leaf spot; Grady, Tulsa.

Elsinoe veneta (Speg.) Jenkins, Anthracnose; Muskogee, Okmulgee, Pottawatomie.

Gymnoconia peckiana (Howe) Trott., Orange rust; general with collection from Okmulgee.

Mycosphaerella rubi Roark, Leaf spot; Oklahoma, Payne, Pittsburg.

Virus, Mosaic & Leaf curl; general.

Nonparasitic, Frost injury; general.

RUBUS—Continued.

R. SP., YOUNGBERRY.

Coniothyrium sp., Cane canker; Creek.

Gloeosporium sp., Anthracnose; Oklahoma.

Mycosphaerella rubi Roark, Leaf spot; Creek, Seminole.

RUDBECKIA

R. AMPLEXICAULIS Vahl, CLASPING CONEFLOWER.

Cuscuta arvensis Beyrich, Dodder; Pottawatomie.

Erysiphe cichoracearum DC., Powdery mildew;

Payne.

R. HIRTA L., BLACKEYEDSUSAN.

Plasmopara halstedii (Farl.) Berl. & DeToni, Downy

mildew; Murray.

Septoria rudbeckiae Ell. & Halst., Leaf spot; Murray.

RUELLIA

R. STREPENS L., LIMESTONE RUELLIA.

Cercospora consociata Wint., Leaf spot; Payne.

RUMEX

R. ALTISSIMUS Wood, PALE DOCK.

Phyllosticta circuligerens Tehon & Daniels, Leaf spot;

Payne.

Septoria rumicis Ell., Leaf spot; Payne.

R. CRISPUS L., CURLY DOCK.

Colletotrichum erumpens Sacc., Anthracnose; Semi-

nole.

Ramularia obovata Fckl., Leaf spot; Payne.

R. HASTATULUS Baldw., HEARTWING SORREL.

Ramularia obovata Fckl., Leaf spot; Payne.

R. VENOSUS Pursh, VEINY DOCK.

Puccinia phragmitis (Schum.) Korn., Rust.

Ramularia obovata Fckl., Leaf spot; Payne.

SABATIA

S. CAMPESTRIS Nutt., PRAIRIE ROSEGENTIAN.

Cercospora sabbatae Ell. & Ev., Leaf spot; Cleveland,

Pawnee, Payne.

Gloeosporium sp., Anthracnose; Payne.

SALIX

S. DISCOLOR Muhl., PUSSYWILLOW.

Dothiorella ribis (Fckl.) Sacc., Branch canker;

Oklahoma.

Macrophoma sp., Branch canker; Payne.

SALIX—Continued.

- S. INTERIOR Rowlee, SANDBAR WILLOW.
Melampsora abieti-capraearum Tub., Leaf rust; Payne.
- S. LONGIPES Shuttlew., COASTALPLAIN WILLOW.
Melampsora abieti-capraearum Tub., Leaf rust.
- S. NIGRA Marsh., BLACK WILLOW.
Melampsora abieti-capraearum Tub., Leaf rust.
- S. SPP., WILLOW.
Coryneum sp., Leaf spot; Oklahoma.
Cylindrosporium salicinum (Pk.) Dearn., Leaf spot; Oklahoma, Payne, Tulsa.
Cytospora chrysosperma Pers. ex Fr., Canker; Nowata, Payne, Wagoner.
Marssonina populi (Lib.) Magn., Leaf spot; Muskogee, Payne.
Melampsora bigelowii Thum., Rust; Harper, Muskogee, Ottawa, Payne.

SALVIA

- S. AZUREA Lam., AZURE SAGE.
Cercospora salviicola Tharp, Leaf spot; Payne.
- S. LANCEOLATA Willd., LANCELEAF SAGE.
Puccinia caulicola T. & G., Rust.
- S. PITCHERI Torr., PITCHERS SAGE.
Puccinia farinacea Long, Rust.

SAMBUCUS

- S. CANADENSIS L., AMERICAN ELDER.
Heterosporium sambuci Earle; Payne.
Septoria sambucina Pk., Leaf spot; Payne.
- S. SP., ELDER.
Alternaria sp., Leaf spot.
Cercospora catenospora Atk., Leaf spot.

SAPINDUS

- S. DRUMMONDII Hook. & Arn., WESTERN SOAPBERRY.
Cylindrosporium griseum Heald & Wolf., Leaf blight; Payne.
Phymatotrichum omnivorum (Shear) Dug., Root rot.

SASSAFRAS

- S. ALBIDUM (Nutt.) Nees, COMMON SASSAFRAS.
Phyllosticta sassafras Cke., Leaf spot; Delaware.

SCIRPUS

- S. AMERICANUS Pers., AMERICAN BULRUSH.
Puccinia obtecta Peck, Rust.

SCROPHULARIA

- S. MARILANDICA L., MARYLAND FIGWORT.
Cylindrosporium scrophulariae Sacc. & Ell., Leaf spot;
Cherokee.

SCUTELLARIA

- S. INTEGRIFOLIA L., HYSSOP SKULLCAP.
Septoria scutellariae Thum., Leaf spot; Pushmataha.
S. PARVULA Michx., SMALL SKULLCAP.
Septoria scutellariae Thum., Leaf spot; Payne.

SECALE

- S. CEREALE L., RYE.
Claviceps purpurea (Fr.) Tul., Ergot; general.
Colletotrichum graminicolum (Ces.) G.W.Wils.,
Anthracnose; general with collection from Payne.
Darlucu filum (Biv.) Cast., Parasitic on *Puccinia*
rubigo-vera secalis (Erikss.) Carl. on living leaves;
Payne.
Erysiphe graminis DC., Powdery mildew; general.
Gibberella zeae (Schw.) Petch, Scab.
Ophiobolus graminis Sacc., Take all; Ottawa.
Puccinia graminis Pers., Stem rust; general.
Puccinia rubigo-vera secalis (Erikss.) Carl., Leaf rust;
general with collections from Bryan, Payne.
Urocystis occulta (Wallr.) Rabh., Flag smut; general
with collection from Oklahoma.
Ustilago tritici (Pers.) Rostr., Loose smut.

SETARIA

- S. ITALICA (L.) Beauv., FOXTAIL MILLET.
Helminthosporium turcicum Pass., Leaf stripe;
Virus, Mosaic; Payne.
S. LUTESCENS (Weigel) Hubb., YELLOW BRISTLE-
GRASS.
Bacterium sp., Bacterial leaf spot; Payne.
Cercospora setariicola Tehon & Daniels, Leaf spot;
Cleveland.
Ellisiella caudata (Pk.) Sacc., Leaf spot; Payne.
Piricularia grisea (Cke.) Sacc., Gray leaf spot; Murray.

SILENE

- S. ANTIRRHINA L., SLEEPY SILENE.
Ascochyta silenes Ell. & Ev., Leaf spot; Delaware.
Septoria sp., Leaf spot; Payne.

SISYMBRIUM

- S. ALTISSIMUM L., TUMBLE MUSTARD.
Albugo candida (Pers. ex Lev.) Kuntze, White rust;
 Payne.

SISYRINCHIUM

- S. GRAMINEUM Curtis, BLUE-EYEDGRASS.
Aecidium residuum Arth., Rust; Garfield.

SMILACINA

- S. RACEMOSA (L.) Desf., FEATHER SOLOMONPLUME;
 FALSE SPIKENARD.
Puccinia sessilis Schneid., Rust; McCurtain.

SMILAX

- S. BONA-NOX L., SAW GREENBRIER.
Cercospora smilacina Sacc., Leaf spot; Payne.
Dothiorella smilacina (Pk.) Petr. & Syd., Leaf spot;
 Payne.
Puccinia amphigena Diet., Rust; Payne.
Puccinia smilacis Schw., Rust; Payne.
- S. GLAUCA Walt., CAT GREENBRIER.
Dothiorella smilacina (Pk.) Petr. & Syd., Leaf spot;
 Payne.
Phyllosticta smilacis Ell. & Mart., Leaf spot; Payne.
Puccinia smilacis Schw., Rust; Payne.
- S. HERBACEA L., CARRIONFLOWER GREENBRIER.
Puccinia amphigena Diet., Rust; McCurtain.
- S. HISPIDA Muhl., BRISTLY GREENBRIER.
Phyllosticta sp., Leaf spot; Payne.
- S. LANCEOLATA L., LANCELEAF GREENBRIER.
Phyllosticta sp., Leaf spot; McCurtain.
- S. PSEUDO-CHINA L., LONG-STALKED GREENBRIER.
Cercospora smilacina Sacc., Leaf spot; Payne.
- S. ROTUNDIFOLIA L., COMMON GREENBRIER.
Dothiorella smilacina (Pk.) Petr. & Syd., Leaf spot;
 Payne.
Puccinia smilacis Schw., Rust.
- S. SPP., GREENBRIER.
Colletotrichum smilacis Tehon, Anthracnose; Murray.
Gloeosporium cingulatum Atk., Leaf spot; Murray.
Puccinia smilacis Schw., Rust; Creek, Delaware, Le
 Flore, Payne.

SOJA

- S. MAX (L.) Piper, SOYBEAN.
Cercospora soja Hara, Leaf spot; Delaware, Payne.
Colletotrichum glycines Hori, Anthracnose; Payne, Tulsa.
Diaporthe phaseolorum var. *sojae* (Lehm.) Wehm., Pod & stem blight; Delaware, Muskogee, Payne.
Fusarium oxysporum f. *tracheiphilum* (E.F.Sm.) Snyder & Hansen, Wilt; Muskogee, Payne.
Glomerella glycines (Hori) Lehm. & Wolf, Anthracnose; Payne.
Macrophomina phaseoli (Maubl.) Ashby, Ashy stem blight; Payne.
Nematospora coryli Peglion, Yeast spot; Payne.
Peronospora manshurica (Naoum.) Syd., Downy mildew; Okmulgee.
Phymatotrichum omnivorum (Shear) Dug., Texas root rot; Marshall.
Pseudomonas glycinea (Coerper) Stapp, Bacterial blight; Craig, Delaware, Muskogee, Okmulgee, Payne.
Pseudomonas tabaci (Wolf & Foster) Stapp, Wildfire; Payne.
Sclerotium bataticola Taub., Charcoal rot; Craig, Delaware, Muskogee, Payne, Tulsa.
Xanthomonas phaseoli var. *sojense* (Hed.) Starr & Burkholder, Bacterial pustule; Craig, Creek, Delaware, Muskogee, Okmulgee, Payne.
Virus, Mosaic; Payne.

SOLANUM

- S. CAROLINENSE L., CAROLINA HORSENETTLE.
Phoma terrestris Hansen, Stem canker; Payne.
- S. MELONGENA L., GARDEN EGGPLANT.
Bacterium solanacearum E.F.Sm., Bacterial wilt; Payne.
Colletotrichum atramentarium (Berk. & Br.) Taub., Anthracnose.
Phomopsis vexans (Sacc. & Syd.) Harter, Fruit rot; Payne.
- S. TUBEROSUM L., POTATO.
Actinomyces scabies (Thax.) Guss., Scab; Haskell, Hughes, Le Flore, McIntosh, Muskogee, Okfuskee, Oklahoma, Okmulgee, Payne, Pittsburg, Seminole, Sequoyah, Wagoner.

SOLANUM—Continued.

- Alternaria solani* (Ell. & Mart.) Jones & Grout, Early blight; general with collections from Choctaw, Haskell, Le Flore, McCurtain, McIntosh, Oklahoma, Payne, Seminole, Tulsa.
- Bacterium solanacearum* E.F.Sm., Bacterial wilt; Craig.
- Cephalobus* sp., Nematode; Okfuskee.
- Colletotrichum atramentarium* (Berk. & Br.) Taub., Anthracnose; Creek.
- Corynebacterium sepedonicum* (Speick. & Koth.) Skapt., Bacterial ring rot.
- Erwinia carotovora* (Jones) Winslow et al., Soft rot & Blackleg; general with collections from Caddo, Craig, Hughes, Le Flore, Oklahoma, Okmulgee, Pottawatomie, Seminole, Sequoyah, Texas.
- Fusarium oxysporum* Schl., Wilt; general with collections from Bryan, Creek, Haskell, Seminole.
- Fusarium solani* f. *eumartii* (Carp.) Snyder & Hansen, Dry rot: End rot; general with collections from Caddo, Muskogee, Seminole, Sequoyah, Tulsa.
- Helicobasidium purpureum* (Tul.) Pat., Violet root rot; Oklahoma.
- Heterodera marioni* (Cornu) Goodey, Root knot; general with collections from Creek, Haskell, Johnston, Okfuskee.
- Pellicularia filamentosa* (Pat.) Rogers, Stem rot; Choctaw, Seminole.
- Phytophthora* sp., Pink rot; Muskogee.
- Rhizoctonia solani* Kuhn, Stem rot; general with collections from Bryan, Choctaw, Haskell, Okfuskee, Oklahoma, Payne, Seminole.
- Sclerotium bataticola* Taub., Charcoal rot; Payne.
- Sclerotium rolfsii* Sacc., Southern blight; Okfuskee.
- Spongospora subterranea* (Wallr.) Johnson, Powdery scab; Oklahoma, Payne.
- Virus*, Leaf roll; general with collection from Choctaw.
- Virus*, Mild mosaic; general with collections from Choctaw, McCurtain.
- Virus*, Purple top wilt; Choctaw.
- Virus*, Rugose mosaic; general with collection from Le Flore.
- Virus*, Spindle tuber; general.
- Virus*, Witches broom.
- Nonparasitic*, Enlarged lenticels.
- Nonparasitic*, Hair sprout.

SOLANUM—Continued.

Nonparasitic, Hollow heart: Black heart; general.
Nonparasitic, Tipburn; general with collection from
 Seminole.

SOLIDAGO

- S. GIGANTEA var. LEIOPHYLLA Fern., NOVEMBER
 GOLDENROD.
Coleosporium solidaginis (Schw.) Thum., Rust.
- S. GRAMINIFOLIA (L.) Salisb., GRASSLEAF
 GOLDENROD.
Cuscuta arvensis Beyrich., Dodder; Muskogee.
- S. SPP., GOLDENROD.
Coleosporium solidaginis (Schw.) Thum., Rust;
 Lincoln, Payne.
Cuscuta compacta Juss., Dodder; Greer.
Cuscuta cuspidata Engelm., Dodder; Cleveland, Greer.
Septoria sp., Leaf spot; Payne.

SONCHUS

- S. ASPER (L.) Hill, PRICKLY SOWTHISTLE.
Alternaria sonchi J. J. Davis, Leaf blight; Payne.
Erysiphe cichoracearum DC., Powdery mildew; Payne.

SOPHORA

- S. AFFINIS Torr. & Gray, TEXAS SOPHORA.
Corticium sp., Murray.
Macrophoma sp.; Murray.
- S. JAPONICA L., JAPANESE PAGODATREE.
Nectria cinnabarina Tode ex Fr., Twig blight; Payne.

SORBUS

- S. AMERICANA Marsh., AMERICAN MOUNTAINASH.
Phyllosticta sorbi Westd., Leaf spot; Washington.

SORGHASTRUM

- S. NUTANS (L.) Nash, YELLOW INDIANGRASS.
Cerebella andropogonis Ces., Blackhead: False smut;
 Lincoln, Payne, Pittsburg.
Claviceps sp., Ergot; Lincoln, Payne.
Ellisiella caudata (Pk.) Sacc., Leaf spot; Payne.
Phyllosticta sp., Leaf spot; Payne.
Puccinia virgata Ell. & Ev., Rust; Payne.
Stagonospora sp., Leaf spot; Payne.

SORGHUM

- S. HALEPENSE (L.) Pers., JOHNSONGRASS.
Cercospora sorghi Ell. & Ev., Leaf spot; Seminole.
Colletotrichum graminicolum (Ces.) G.W.Wils., Anthracnose; Murray, Payne.
Helminthosporium turcicum Pass., Leaf blight; Payne, Seminole.
Monascus purpureus Went, Mold; Payne.
Pseudomonas syringae van Hall, Leaf spot; Woodward.
Puccinia purpurea Cke., Rust; Payne, Stephens, Woods, Woodward.
Sphacelotheca cruenta (Kuhn) Potter, Loose kernel smut; Marshall, Muskogee, Payne, Seminole, Stephens.
Sphacelotheca sorghi (Link) Clint., Covered kernel smut; Carter, Cleveland, Marshall, Payne, Seminole.
Titaospora sorghi (Ell. & Ev.) Olive, ined. (*Septorella sorghi* Ell. & Ev.), Leaf spot; Murray, Payne.
Xanthomonas holcicola (Ell.) Starr & Burkh., Bacterial streak; Oklahoma.
- S. VULGARE Pers., SORGHUM.
Alternaria sp., Leaf spot; Alfalfa, Payne.
Ascochyta sorghina Sacc., Leaf spot; Garvin.
Aspergillus niger Van Tiegh., Mold; general with collections from Comanche, Kay, Payne.
Cephalothectum sp., Leaf spot; Alfalfa.
Colletotrichum graminicolum (Ces.) G.W.Wils., Anthracnose; Custer, Garvin, McClain, Payne.
Fusarium spp., Root & stalk rots; Alfalfa, Comanche, Grady, Payne, Woodward.
Helminthosporium sp., Root rot; Comanche, Payne, Seminole, Woodward.
Nigrospora sphaerica (Sacc.) Mason, Kernel rot; Payne.
Phoma sp., Root rot; Woodward.
Pseudomonas alboprecipitans Rosen; Payne.
Pseudomonas andropogoni (E.F.Sm.) Stapp, Bacterial stripe; Alfalfa, Canadian, Cotton, Garfield, Harper, Hughes, Johnston, Muskogee, Payne, Seminole, Tillman, Woods, Woodward.
Pseudomonas syringae van Hall, Bacterial eye spot; Adair, Alfalfa, Bryan, Canadian, Cherokee, Cotton, Delaware, Garfield, Garvin, Harper, Hughes, Johnston, Le Flore, Muskogee, Payne, Seminole, Sequoyah, Tillman, Woods, Woodward.
Puccinia purpurea Cke., Rust; Comanche, Payne, Rogers, Seminole, Woodward.

SORGHUM—Continued.

Pythium arrhenomanes Elliot, Milo disease; Canadian, Delaware, Hughes, Nowata, Payne, Woodward.

Sclerotium bataticola Taub., Charcoal rot; general with collections from Comanche, Hughes, Payne, Woodward.

Sphacelotheca cruenta (Kuhn) Potter, Loose kernel smut; Payne.

Sphacelotheca reiliana (Kuhn) Clint., Head smut.

Sphacelotheca sorghi (Lk.) Clint., Covered kernel smut; Adair, Bryan, Cherokee, Comanche, Craig, Delaware, Garfield, Johnston, Kiowa, Le Flore, Lincoln, Mayes, Muskogee, Nowata, Payne, Seminole, Sequoyah, Texas, Washita, Woodward.

Titaeospora sorghi (Ell. & Ev.) Olive, ined. (*Septorella sorghi* Ell. & Ev.), Leaf spot; Bryan, Payne.

Xanthomonas holcicola (Ell.) Starr & Burk., Bacterial streak; Alfalfa, Canadian, Cotton, Garfield, Harper, Hughes, Payne, Woods, Woodward.

Nonparasitic, Iron deficiency; Ellis, Payne, Washita.

S. VULGARE var. SUDANENSE (Piper) Hitchc., SUDAN-GRASS.

Fusarium sp., Red root rot.

Helminthosporium sp., Root rot; Seminole.

Sclerotium bataticola Taub., Charcoal rot.

S. VULGARE var. TECHNICUM (Koern.) Jav., BROOM-CORN.

Colletotrichum graminicolum (Ces.) G.W.Wils., Anthracnose; Garvin, McClain, Payne, Stephens.

Fusarium moniliforme Sheld., Pink rot; Stephens.

Sclerotium bataticola Taub., Charcoal rot; McClain, Payne, Woodward.

Titaeospora sorghi (Ell. & Ev.) Olive, ined. (*Septorella sorghi* Ell. & Ev.), Leaf spot; Garvin, Payne.

SPARTINA

S. GRACILIS Trin., ALKALI CORDGRASS.

Puccinia peridermiospora (Ell. & Tr.) Arth., Rust.

S. PECTINATA Link, PRAIRIE CORDGRASS.

Puccinia peridermiospora (Ell. & Tr.) Arth., Rust; general with collection from Payne.

Puccinia seymouriana Arth., Rust; Craig.

SPECULARIA

S. BIFLORA (R. & P.) Fisch. & Mey., SMALL VENUS-LOOKINGGLASS.

Septoria speculariae Berk. & Curt., Leaf spot; Payne.

SPECULARIA—Continued.

- S. PERFOLIATA (L.) A. DC., CLASPING VENUSLOOK-
INGGLASS.
Septoria speculariae Berk. & Curt., Leaf spot; Dela-
ware, Payne.

SPHAERALCEA

- S. COCCINEA (Pursh) Rydb., SCARLET GLOBE-
MALLOW.
Puccinia sherardiana Korn., Rust.

SPHENOPHOLIS

- S. INTERMEDIA Rydb., SLENDER WEDGESCALE.
Ascochyta graminicola Lib., Leaf spot; Delaware.
S. OBTUSATA (Michx.) Scribn., PRAIRIE WEDGE-
SCALE.
Puccinia eatoniae Arth., Rust.

SPINACIA

- S. OLERACEA L., SPINACH.
Albugo occidentalis Wilson, White rust; Le Flore,
Muskogee, Sequoyah, Wagoner.
Cercospora sp., Leaf spot; Seminole.
Heterodera marioni (Cornu) Goodey, Root knot; Mus-
kogee, Tulsa.
Heterosporium variabile Cke., Leaf spot; Haskell,
Le Flore, Muskogee, Sequoyah, Tulsa, Wagoner.
Macrosporium cheiranthi (Lib.) Fr., Leaf spot; Mus-
kogee.
Peronospora effusa (Grev.) Rabh., Downy mildew:
Blue mold; Haskell, Le Flore, McIntosh, Muskogee,
Sequoyah, Tulsa, Wagoner.
Virus, Cucumber mosaic virus; Le Flore, Muskogee.
Virus, Curly top; Le Flore, Muskogee.

SPIRAEA

- S. JAPONICA L. f., JAPANESE SPIREA.
Cercospora physocarpis Ray, Leaf spot; Payne.

SPOROBOLUS

- S. AIROIDES (Torr.) Torr., ALKALI SACATON.
Puccinia luxuriosa Syd., Rust.
S. ASPER (Michx.) Kunth, TALL DROPSEED.
Chaetomella atra Fckl.; Tulsa.
Colletotrichum graminicolum (Ces.) G.W.Wils.,
Anthracnose; Hughes.
Puccinia vilfae Arth. & Holw., Rust.

SPOROBOLUS—Continued.

- S. ASPER var. HOOKERI (Trin.) Vasey, MEADOW TALL DROPSEED.
Selenophoma sp.; Payne.
- S. CLANDESTINUS (Spreng.) Hitchc., HIDDEN DROPSEED.
Cercospora seriata Atk., Leaf spot; Payne.
Septoria sp., Leaf spot; Payne.
- S. CRYPTANDRUS (Torr.) A. Gray, SAND DROPSEED.
Phyllachora vulgata Theissen & Sydow, Black spot; Grady.
Puccinia simulans (Peck) Barth., Rust.
- S. HETEROLEPIS A. Gray, PRAIRIE DROPSEED.
Colletotrichum graminicolum (Ces.) G.W.Wils., Anthracnose; Osage.
- S. NEGLECTUS Nash, PUFFSHEATH DROPSEED.
Puccinia vilfae Arth. & Holw., Rust; Payne.
- S. VAGINIFLORUS (Torr.) Wood, POVERTY DROPSEED.
Chaetomella atra Fckl.; Payne.
Selenophoma sp., Payne.

STAPELIA

- S. SP., CARRIONFLOWER.
Diplodia sp.; Payne.

STAPHYLEA

- S. TRIFOLIA L., AMERICAN BLADDERNUT.
Cercospora staphyleae Ray & McLaughlin, Leaf spot; Payne.

STELLARIA

- S. MEDIA (L.) Cyrill., CHICKWEED.
Synchytrium stellariae Fckl.; Payne.

STENOSIPHON

- S. LINIFOLIUS (Nutt.) Britton, FLAXLEAF STENOSIPHON.
Cercospora sp., Leaf spot; Murray.

STILLINGIA

- S. SYLVATICA L., QUEENSDELIGHT STILLINGIA.
Cuscuta sp., Dodder; Muskogee.
Uromyces graminicola Burr., Rust; Beaver, Payne.

STIPA

- S. COMATA Trin., NEEDLEANDTHREAD.
Ustilago minima Arth., Smut; Payne, Woodward.

STROPHOSTYLES

- S. HELVOLA (L.) Britton, TRAILING WILDBEAN.
Phyllosticta phaseolina Sacc., Leaf spot; Payne, Pittsburg.
Uromyces phaseoli strophostylis (Pers.) Arth., Rust; Lincoln, Payne, Seminole.
- S. PAUCIFLORA (Benth.) S. Wats., SMALL WILDBEAN.
Ascochyta sp., Leaf spot; Payne.
Erysiphe polygoni DC., Powdery mildew; Ottawa.
Uromyces phaseoli strophostylis (Pers.) Arth., Rust; Logan, Payne, Tulsa.

SYMPHORICARPOS

- S. ORBICULATUS Moench, INDIANCURRENT CORALBERRY.
Microsphaera diffusa Cke. & Pk., Powdery mildew; Major, Murray, Payne.
Puccinia crandallii Pam. & Hume, Rust; Delaware.
- S. SP., SNOWBERRY.
Phyllosticta symphoricarpi Westd., Leaf spot; Payne.

SYRINGA

- S. PERSICA L., PERSIAN LILAC.
Microsphaeraalni DC. ex Wint., Powdery mildew; Payne.
- S. VULGARIS L., COMMON LILAC.
Cercospora macromaculans Heald & Wolf, Leaf spot.
Cladosporium herbarum Lk., Leaf blotch, Payne, Tulsa.
Microsphaeraalni DC. ex Wint., Powdery mildew; Grady, Payne, Pontotoc.
Phyllosticta syringae West., Leaf spot; Pittsburg.
Sphaeropsis syringae Pk. & Clint., Payne.
Stereum purpureum Pers., Wood rot.

TARAXACUM

- T. OFFICINALE Weber, COMMON DANDELION.
Puccinia hieracii (Schum.) Mart., Rust; Payne.

TEPHROSIA

- T. VIRGINIANA (L.) Pers., VIRGINIA TEPHROSIA.
Ravenelia epiphylla (Schw.) Diet., Rust; Craig.

TETRAGONIA

- T. EXPANSA Murr., NEW ZEALAND SPINACH.
Alternaria sp., Leaf spot; Woodward.

TEUCRIUM

- T. CANADENSE L., AMERICAN GERMANDER.
Cercospora teucriti Ell. & Kell., Leaf spot; Payne.
Peronospora sp., Downy mildew; Payne.

THUJA

- T. OCCIDENTALIS L., EASTERN ARBORVITAE.
Alternaria sp., Leaf blotch; Muskogee.
Coryneum thujinum Dearn., Twig blight; Kay,
 Muskogee.
Cytospora sp., Canker; Muskogee, Pittsburg.
Mycosphaerella thujae Petr., Leaf spot; Okmulgee.
Pestalotia funerea Desm., Twig blight; Kay, Payne.
Phomopsis juniperovora G.Hahn, Nursery blight;
 Payne.
 Nonparasitic, Drought & Sun scald.

TILIA

- T. AMERICANA L., AMERICAN LINDEN: BASSWOOD.
Cercospora tragoponis Ell. & Ev., Leaf spot; Payne.

TITHONIA

- T. ROTUNDIFOLIA (Mill.) Blake, SCARLET TITHONIA.
Alternaria sp., Leaf spot; Payne.

TRAGIA

- T. NEPETAEFOLIA Cav., CATNIP-LEAVED TRAGIA.
Cuscuta coryli Engelm., Dodder; Greer.

TRAGOPOGON

- T. PORRIFOLIUS L., VEGETABLE-OYSTER SALSIFY.
Cercospora tragopogonis Ell. & Ev., Leaf spot; Payne.
Erysiphe cichoracearum DC., Powdery mildew; Payne.
Heterodera marioni (Cornu) Goodey, Root knot.

TRIBULUS

- T. TERRESTRIS L., PUNCTUREVINE.
Cuscuta cuspidata Engelm., Dodder; Grady.
Phyllosticta sp., Leaf spot; Jackson.

TRIFOLIUM

- T. CAROLINIANUM Michx., CAROLINA CLOVER.
Uromyces elegans (Berk.) Lagerh., Rust; Delaware,
Le Flore, Mayes, McCurtain, Payne, Pushmataha.
- T. HYBRIDUM L., ALSIKE CLOVER.
Cercospora zebrina Pass., Leaf spot; McCurtain.
- T. PRATENSE L., RED CLOVER.
Uromyces trifolii fallens (Desm.) Arth., Rust.
- T. PROCUMBENS L., LOW HOP CLOVER.
Uromyces elegans (Berk.) Lagerh., Rust; Le Flore.
- T. SPP., CLOVER.
Colletotrichum trifolii Bain, Anthracnose.
Erysiphe polygoni DC., Powdery mildew.
Pseudopeziza trifolii (Bernh.) Fckl., Leaf spot.
Sclerotinia trifoliorum Erikss., Root rot.

TRILLIUM

- T. RECURVATUM Beck, PRAIRIE TRILLIUM.
Septoria trillii Pk., Leaf spot; Adair, Cherokee.

TRIODIA

- T. ALBESCENS Vasey, WHITE TRIODIA.
Colletotrichum graminicolum (Ces.) G.W.Wils.,
Anthracnose; Payne.
- T. ELONGATA (Buckl.) Scribn., ROUGH TRIODIA.
Colletotrichum graminicolum (Ces.) G.W.Wils.,
Anthracnose; Tulsa.
- T. FLAVA (L.) Smyth, PURPLETOP: TALL REDTOP.
Dothichloe atramentosa (B.& C.) Atk., Black crust;
Lincoln.
Puccinia windsoriae Schw., Rust; Payne.
Selenophoma sp., Leaf spot; Payne.
Ustilago tricuspidis Ell. & Gall., Smut; Pittsburg.
- T. STRICTA (Nutt.) Benth., LONGSPIKE TRIODIA.
Selenophoma sp., Leaf spot; Payne.

TRIOSETUM

- T. PERFOLIATUM L., COMMON HORSEAGENTIAN.
Cylindrosporium trioseti Kell. & Swingle, Leaf spot;
Delaware.

TRIPLASIS

- T. PURPUREA (Walt.) Chapm., PURPLE SANDGRASS.
Puccinia schedonnardi Kell. & Swingle, Rust; Payne.

TRIPSACUM

- T. DACTYLOIDES L., EASTERN GAMAGRASS.
Colletotrichum graminicolum (Ces.) G.W.Wils.,
 Anthracnose; Kay, Payne.

TRITICUM

- T. AESTIVUM L., WHEAT.
Cladosporium sp., Mold; Alfalfa.
Claviceps purpurea (Fr.) Tul., Ergot.
Colletotrichum graminicolum (Ces.) G.W.Wils.,
 Anthracnose; Grant.
Curvularia spicifera (Bainier) Boedijn, Foot rot;
 Woodward.
Erysiphe graminis DC., Powdery mildew; Payne.
Fusarium spp., Foot rot: Root rot; general with collec-
 tions from Alfalfa, Canadian, Cimarron, Garfield.
Gibberella zeae (Schw.) Petch, Scab; general with collec-
 tions from Delaware, Garfield, Payne, Seminole,
 Tillman.
Helminthosporium sativum Pam., King, & Bakke, Foot
 rot; Alfalfa, Blaine, Caddo, Canadian, Ellis, Garfield,
 Harper, Kay, Kingfisher, Kiowa, Logan, Noble, Nowata,
 Payne, Pittsburg, Seminole, Tulsa, Woods.
Helminthosporium spp., Leaf spot; Alfalfa, Cimarron.
Heterosporium sp., Glume blotch; Custer.
Pseudomonas atrofaciens (McCul.) Stapp, Basal glume
 rot.
Puccinia graminis tritici Erikss.& Henn., Stem rust;
 general with collections from Beckham, Delaware,
 Dewey, Garvin, Kay, Kiowa, Logan, Mayes, McClain,
 Noble, Pawnee, Payne, Seminole, Woods,
 Woodward.
Puccinia rubigo-vera tritici (Erikss.& Henn.) Carleton,
 Leaf rust; general with collections from Blaine,
 Canadian, Choctaw, Custer, Delaware, Garfield, Grady,
 Harper, Kingfisher, Le Flore, Lincoln, Logan, Noble,
 Oklahoma, Osage, Payne, Seminole, Tulsa, Wagoner,
 Woods, Woodward.
Pythium sp., Root rot; Cimarron.
Rhizoctonia sp., Root rot; Blaine, Canadian, Texas,
 Woodward.
Septoria nodorum Berk., Glume blotch; Payne.
Septoria tritici Desm., Speckled leaf blotch; general
 with collections from Canadian, Custer, Garfield,
 Grant, Kingfisher, Payne, Seminole, Tulsa.

TRITICUM—Continued.

Stemphylium tritici Patterson.

Tilletia caries (DC.) Tul., Rough spored bunt; general with collection from Payne.

Tilletia foetida (Wallr.) Liro, Smooth spored bunt; general with collections from Payne.

Ustilago tritici (Pers.) Rostr., Loose smut; general with collections from Caddo, Canadian, Comanche, Kingfisher, Kiowa, Noble, Payne, Seminole, Wagoner.

Xanthomonas translucens f. sp. *undulosa* (E.F.Sm., L.R. Jones, & Reddy) Hagb., Black chaff; Delaware, Grady, Muskogee, Oklahoma, Payne, Seminole, Tulsa, Washita, Woods.

Virus, Mosaic; Payne.

T. DICOCUM Schrank, EMMER.

Puccinia graminis tritici Erikss. & Henn., Stem rust.

T. SPELTA L., SPELT.

Alternaria sp., Mold; general with collection from Canadian.

Puccinia graminis tritici Erikss. & Henn., Stem rust.

Puccinia rubigo-vera tritici (Erikss. & Henn.) Carleton, Leaf rust.

TROPAEOLUM

T. MAJUS L., COMMON NASTURTIUM.

Pleospora tropaeoli Halst., Leaf spot; Payne.

TULIPA

T. SPP., TULIP.

Aspergillus sp., Bulb rot; Oklahoma.

Botrytis tulipae (Lib.) E.F.Hopkins, Botrytis blight.

Fusarium sp., Bulb rot; Oklahoma.

Penicillium sp., Bulb rot; Oklahoma.

TYPHA

T. LATIFOLIA L., COMMON CATTAIL.

Cladosporium fasciculatum Cda.; Payne.

ULMUS

U. ALATA Michx., WINGED ELM: WAHOO.

Gloeosporium inconspicuum Cav., Leaf spot; Seminole.

Phoradendron flavescens (Pursh) Nutt., Mistletoe; McClain.

Uncinula macrospora Pk., Powdery mildew; Atoka.

U. AMERICANA L., AMERICAN ELM.

Coniothyrium ulmi Tharp, Leaf spot; Payne.

Dothiorella ulmi Verrall & May, Dieback & Wilt.

ULMUS—Continued.

- Gloeosporium inconspicuum* Cav., Leaf spot; Payne, Seminole.
- Gloeosporium ulmeum* Miles, Leaf spot; Payne.
- Gnomonia ulmea* (Schw. ex Fr.) Thum., Black spot; Muskogee, Oklahoma, Payne, Tulsa.
- Heterodera marioni* (Cornu) Goodey, Root knot.
- Lophiostoma asperum* Ell. & Ev.; Oklahoma.
- Peniophora* sp., Woodward.
- Phoradendron flavescens* (Pursh) Nutt., Mistletoe; Haskell, McClain, Tulsa.
- Phyllosticta erratica* Ell. & Ev., Leaf spot; Delaware.
- Phyllosticta melaleuca* Ell. & Ev., Leaf spot; Oklahoma.
- Polyporus conchifer* (Schw.) Fr., Wood rot; Payne.
- U. AMERICANA var. PENDULA Ait., WEEPING ELM.
Nectria cinnabarina Tode ex Fr., Canker; Payne.
- U. CRASSIFOLIA Nutt., CEDAR ELM.
Coniothyrium ulmi Tharp, Leaf spot.
- U. FULVA Michx., SLIPPERY ELM.
Dothiorella ulmi Verrall & May, Dieback & Wilt.
- Gloeosporium* Miles, Leaf spot; Payne.
- Mycosphaerella ulmi* Kleb., Leaf spot; Payne.
- Phoradendron flavescens* (Pursh) Nutt., Mistletoe; McClain.
- Phyllosticta* sp., Leaf spot; Payne.
- Taphrina ulmi* (Fckl.) Johans., Leaf blister; Payne.
- Uncinula macrospora* Pk., Powdery mildew; Lincoln, Payne.
- U. PUMILA L., SIBERIAN ELM.
Chalaropsis thielavioides Peyronel, Seedling root rot.
- Gloeosporium inconspicuum* Cav., Twig blight; Payne.
- Gloeosporium ulmicolum* Miles, Leaf spot; Beckham, Payne.
- Heterodera marioni* (Cornu) Goodey, Root knot; Haskell.
- Nectria cinnabarina* Tode ex Fr., Coral spot: Canker; Payne.
- Phymatotrichum omnivorum* (Shear) Dug., Root rot.
- Taphrina ulmi* (Fckl.) Johans., Leaf blister; Payne.
- U. SPP., ELM.
Armillaria mellea Vahl ex Fr., Mushroom root rot.
- Cephalothecium* sp.; Adair,
- Coryneum* sp., Leaf spot; Adair.
- Daedalea ambigua* Berk., Wood rot.
- Gloeosporium inconspicuum* Cav., Leaf spot; Canadian, Payne.

ULMUS—Continued.

- Gnomonia ulmea* (Schw. ex Fr.) Thum., Leaf spot; general with collections from Beckham, Canadian, Creek, Custer, Garvin, Mayes, Muskogee, Nowata, Okfuskee, Oklahoma, Ottawa, Payne, Texas, Tillman, Tulsa.
Heterodera marioni (Cornu) Goodey, Root knot; Payne.
Hydnum sp.; Payne.
Nectria cinnabarina Tode ex Fr., Canker; Okfuskee, Oklahoma.
Phoradendron flavescens (Pursh) Nutt., Mistletoe; McCurtain.
Phymatotrichum omnivorum (Shear) Dug., Texas root rot; Beckham, Tillman.
Septoria ulmi Ell. & Ev., Leaf spot; Canadian.
Sphaeropsis ulmicola Ell. & Ev., Canker; Cotton, Oklahoma.

UNIOLA

- U. LATIFOLIA Michx., BROADLEAF UNIOLA.
Helminthosporium sp., Leaf spot; Payne.

URTICA

- U. CHAMAEDRYOIDES Pursh, WEAKSTING NETTLE.
Aecidium libertum Arth., Rust; Creek.

VACCINIUM

- V. SP.
Rhytisma vaccinii Schw. ex Fr., Tar spot; Delaware.

VALERIANELLA

- V. RADIATA (L.) Dufr., BEAKED CORNSALAD.
Septoria valerianellae Miles, Leaf spot; Payne.
V. SP.
Peronospora sp., Downy mildew; Noble.

VERATRUM

- V. WOODII Robbins, WOODS FALSEHELLEBORE.
Puccinia atropuncta Pk. & Clint., Rust; Le Flore.

VERBASCUM

- V. BLATTARIA L., MOTH MULLEIN.
Septoria verbascicola Berk. & Curt., Leaf spot; Cherokee.

VERBENA

- V. BRACTEATA Lag. & Rodr., BIGBRACT VERBENA.
Septoria verbenae Rob. & Desm., Leaf spot; Payne.
- V. CANADENSIS (L.) Britton, ROSE VERBENA.
Puccinia vilfae Arth. & Holw., Rust.
Septoria verbenae Rob. & Desm., Leaf spot; Comanche, Delaware, Payne.
- V. HYBRIDA Voss, VERBENA.
Sclerotium bataticola Taub., Charcoal rot; Payne.
- V. PUMILA Rydb., VERBENA.
Septoria verbenae Rob. & Desm., Leaf spot; Caddo.
- V. SIMPLEX Lehm., VERBENA.
Cuscuta arvensis Beyrich, Dodder; Muskogee.
- V. STRICTA Vent., WOOLY VERBENA.
Puccinia vilfae Arth. & Holw., Rust.
- V. URTICIFOLIA L., WHITE VERBENA.
Erysiphe cichoracearum DC., Powdery mildew; Payne.
Puccinia vilfae Arth. & Holw., Rust.
Septoria verbenae Rob. & Desm., Leaf spot; McCurtain.

VERNONIA

- V. BALDWINI Torr., BALDWIN IRONWEED.
Cercospora oculata Ell. & Kell., Leaf spot; Payne.
Coleosporium vernoniae Berk. & Curt., Rust; Okfuskee, Osage, Payne.
Cuscuta cuspidata Engelm., Dodder; Cleveland.
Puccinia vernoniae Schw., Rust.
- V. CRINITA Raf., BUR IRONWEED.
Coleosporium vernoniae Berk. & Curt., Rust.
Puccinia vernoniae Schw., Rust.
- V. FASCICULATA Michx., WESTERN IRONWEED.
Coleosporium vernoniae Berk. & Curt., Rust.
- V. INTERIOR Small, IRONWEED.
Puccinia vernoniae Schw., Rust.
- V. MISSURICA Raf., MISSOURI IRONWEED.
Cercospora vernoniae Ell. & Kell., Leaf spot; Murray.

VERONICA

- V. PEREGRINA L., PURSLANE SPEEDWELL.
Ramularia veronicae Fckl., Leaf spot; Payne.

VIBURNUM

- V. OPULUS L., EUROPEAN CRANBERRYBUSH: HIGH BUSH CRANBERRY.
Cercospora varia Pk., Leaf spot; Payne.
Cercospora viburnicola Ray, Leaf spot; Payne.

VIBURNUM—Continued.

- V. RUFIDULUM Raf., RUSTY BLACKHAW VIBURNUM.
Phyllosticta sp., Leaf spot; Murray.
- V. TOMENTOSUM Thunb., DOUBLEFILE VIBURNUM:
JAPANESE SNOWBALL.
Cercospora viburnicola Ray, Leaf spot; Payne.
- V. SP., VIBURNUM.
Heterodera marioni (Cornu) Goodey, Root knot;
Tulsa.

VICIA

- V. AMERICANA Muhl., AMERICAN VETCH.
Cuscuta indecora Choisy, Dodder; Comanche.
- V. VILLOSA Roth., HAIRY VETCH.
Ascochyta pisi Lib., Leaf spot; Payne.
Colletotrichum viciae Dearn.& Overh., Leaf spot;
Payne.
Gloeosporium americanum Ell.& Ev., Leaf spot; Logan.

VIGNA

- V. CATJANG Walp., CATJANG COWPEA.
Pseudomonas syringae van Hall, Bacterial blight;
Payne.
- V. SINENSIS (Torner) Savi, COMMON COWPEA.
Aristastoma oeconomicum (Ell.& Tracy) Tehon, Zonate
leaf spot; Hughes, Payne, Seminole.
Cercospora cruenta Sacc., Leaf spot; general with col-
lections from Bryan, Carter, Choctaw, Haskell, Hughes,
McClain, Payne, Seminole, Woodward.
Erysiphe polygoni DC., Powdery mildew; Payne,
Pottawatomie, Woodward.
Fusarium oxysporum f. *tracheiphilum* (E.F.Sw.) Snyder
& Hansen, Wilt; Seminole, Woodward.
Heterodera marioni (Cornu) Goodey, Root knot; gen-
eral with collections from Oklahoma, Payne.
Macrophomina phaseoli (Maubl.) Ashby, Ashy stem
blight; Pawnee, Payne.
Nematospora coryli Peglion, Yeast spot; Payne.
Phoma terrestris Hansen; Payne.
Phyllosticta phaseolina Sacc., Leaf spot; Payne.
Phymatotrichum omnivorum (Shear) Dug., Texas root
rot; Carter, Choctaw, Tillman.
Pseudomonas syringae van Hall, Bacterial blight; gen-
eral with collections from Payne, Seminole.
Sclerotium bataticola Taub., Charcoal rot; Comanche,
Payne, Pottawatomie.

VIGNA—Continued.

- Sclerotium rolfsii* Sacc., Southern blight; Muskogee.
Uromyces phaseoli vignae (Barcl.) Arth., Rust; Carter, Cleveland, McClain, Oklahoma, Payne, Woodward.
Xanthomonas phaseoli (E.F.Sm.) Dowson, Bacterial blight; Payne, Seminole.
Xanthomonas vignicola Burk., Bacterial crown canker; Comanche, Creek, Hughes, Pawnee, Payne, Pottawatomie, Stephens, Woodward.
Virus, Mosaic; Payne, Seminole.

VINCETOXICUM

V. SP., ANGLEPOD.

- Puccinia obliqua* Berk.& Curt., Rust; Payne.

VIOLA

V. MISSOURIENSIS GREENE, MISSOURI VIOLET.

- Cercospora violae* Sacc., Leaf spot; Murray.
Colletotrichum violae-rotundifoliae (Sacc.) House, Anthracnose; Payne.
Puccinia violae (Schum.) DC., Rust; Payne.

V. PAPILIONACEA Pursh, BUTTERFLY VIOLET.

- Cercospora granuliformis* Ell.& Holw., Leaf spot; Payne.
Cercospora violae Sacc., Leaf spot; Payne.
Colletotrichum violae-tricoloris R.E.Sm., Anthracnose; Payne.
Puccinia violae (Schum.) DC., Rust.

V. SP., VIOLET.

- Puccinia violae* (Schum.) DC., Rust; Kay.

VITEX

V. AGNUSCASTUS L., LILAC CHASTETREE.

- Cercospora viticis* Ell.& Ev., Leaf spot; Payne.
Phoma sp., Payne.

VITIS

V. BERLANDIERI Planch., WINTER GRAPE.

- Guignardia bidwellii* (Ell.) Viala & Ravaz, Black rot.

V. CINEREA Engelm., SWEET WINTER GRAPE.

- Phyllosticta viticola* (Berk.& Curt.) Thum., Leaf spot; Payne.

V. MUNSONIANA Simpson, BIRD GRAPE.

- Guignardia bidwellii* (Ell.) Viala & Ravaz, Black rot.

V. RUPESTRIS Scheele, SAND GRAPE.

- Phyllosticta viticola* (Berk.& Curt.) Thum., Leaf spot; Cherokee, McCurtain.
Plasmopara viticola (Berk.& Curt.) Berl.& De Toni, Downy mildew; Payne.

VITIS—Continued.

V. SPP., GRAPE.

Agrobacterium tumefaciens (E.F.Sm.& Town.) Conn,
Crown gall.

Alternaria sp., Leaf & stem blotch; Nowata.

Clitocybe monadelpha (Morgan) Sacc., Root rot.

Elsinoe ampelina (DeBy.) Shear, Anthracnose; general with collections from Cherokee, Craig, Garfield, Grady, Muskogee, Payne, Tulsa.

Eutypella vitis (Schw. ex Fr.) Ell.& Ev.; Payne.

Guignardia bidwellii (Ell.) Viala & Ravaz, Black rot; general with collections from Blaine, Bryan, Cherokee, Cleveland, Coal, Creek, Dewey, Garfield, Garvin, Grady, Johnston, Le Flore, Logan, McCurtain, Oklahoma, Okmulgee, Payne, Seminole, Washington, Woodward.

Heterodera marioni (Cornu) Goodey, Root knot.

Melanconium fuliginum (Scrib.& Viala) Cav., Bitter rot; Payne.

Monilinia fructicola (Wint.) Honey, Brown rot; McClain, Muskogee.

Plasmopara viticola (Berk.& Curt.) Berl.& De Toni, Downy mildew; general with collections from Haskell, Okmulgee, Osage, Payne, Woodward.

Uncinula nectar (Schw.) Burr., Powdery mildew.

Nonparasitic, Measles & Water berry.

WISTARIA

W. SP., WISTARIA.

Septoria wistariae Tharp, Leaf spot; Oklahoma.

XANTHIUM

X. CHINESE Mill., COCKLEBUR.

Puccinia xanthii Schw., Rust; Delaware, Le Flore.

X. CHINENSE Mill., COCKLEBUR.

Puccinia xanthii Schw., Rust.

X. INFLEXUM Mackenzie & Bush, COCKLEBUR.

Puccinia xanthii Schw., Rust.

X. ITALICUM Mor., ITALIAN COCKLEBUR.

Puccinia xanthii Schw., Rust.

X. ORIENTALE L., ORIENTAL COCKLEBUR.

Puccinia xanthii Schw., Rust.

X. SPECIOSUM Kearney, GREAT COCKLEBUR.

Puccinia xanthii Schw., Rust.

X. SPP., COCKLEBUR.

Puccinia canaliculata (Schw.) Lagerh., Rust.

Puccinia xanthii Schw., Rust; Comanche, Haskell, Kay, Muskogee, Payne.

YUCCA

- Y. **FILAMENTOSA L., ADAMSNEEDLE YUCCA.**
Cercospora concentrica Ck. & Ell., Leaf spot; Payne.
Kellermania yuccigena Ell. & Ev., Leaf spot; Woodward.
- Y. **GLAUCA Nutt., SMALL SOAPWEED.**
Cylindrosporium angustifolium Ell. & Kell., Leaf spot;
 Payne.
Didymella sphaerelloides Sacc., Leaf spot; Oklahoma.
Kellermania yuccigena Ell. & Ev., Leaf spot; Payne,
 Woodward.

ZANTHOXYLUM

- Z. **AMERICANUM Mill., COMMON PRICKLYASH.**
Puccinia andropogonis xanthoxyli (Pk.) Arth., Rust;
 Payne.
- Z. **CLAVA-HERCULIS L., HERCULES' CLUB.**
Puccinia andropogonis xanthoxyli (Pk.) Arth., Rust;
 Payne.

ZEA

- Z. **MAYS L., CORN.**
Alternaria spp., Mold; general with collections from
 Alfalfa, Hughes, Payne, Washington.
Aspergillus niger van Teigh., Ear mold; general with
 collections from Alfalfa, Creek, Payne, Pottawatomie,
 Seminole, Tulsa.
Bacterium stewartii E.F.Sm., Bacterial wilt; Stewart's
 disease; Bryan, Canadian, Hughes, Okfuskee, Seminole.
Diplodia frumenti Ell. & Ev., Stalk rot; Payne.
Diplodia zeae Lev., Dry rot; general with collections
 from Bryan, Choctaw, Coal, Craig, Creek, Delaware,
 Dewey, Garvin, Johnston, McClain, Noble, Nowata,
 Oklahoma, Okmulgee, Osage, Payne, Pittsburg, Semi-
 nole, Tulsa.
Fusarium moniliforme Sheld., Ear rot; general with
 collections from Craig, Delaware, Dewey, Johnston,
 Nowata, Payne, Pottawatomie, Seminole.
Fusarium spp., Damping off: Rot & Stalk rot; general
 with collections from Alfalfa, Noble, Oklahoma, Payne,
 Pottawatomie, Roger Mills, Washington.
Gibberella zeae (Schw.) Petch, Scab; general with col-
 lections from Mayes, Payne.
Helminthosporium turcicum Pass., Leaf blight;
 Hughes, Latimer, Payne, Pittsburg.
Helminthosporium sp., Leaf spot; Alfalfa.

ZEA—Continued.

- Heterodera marioni* (Cornu) Goodey, Root knot; Okfuskee.
- Penicillium* spp., Blue mold; general.
- Physoderma zeaе-maydis* Shaw, Brown spot; general with collections from Garvin, Hughes, Payne, Stephens.
- Phytophthora dissolvens* H. R. Rosen, Bacterial stalk rot; Grady, Hughes, Pawnee.
- Puccinia sorghi* Schw., Rust; general with collections from Garvin, Hughes, Okmulgee, Payne, Seminole.
- Pythium debaryanum* Hesse; Payne.
- Rhizoctonia solani* Kuhn, Root rot; general.
- Rhizopus nigricans* Ehrenb. ex Fr., Seed blight; general.
- Sclerospora graminicola* (Sacc.) Schroet., Leaf spot; Stephens.
- Sclerotium bataticola* Taub., Charcoal rot; general with collections from Comanche, Oklahoma, Payne.
- Sphacelotheca reiliana* (Kuhn) Clint., Head smut; Alfalfa.
- Ustilago maydis* (DC.) Cda., Corn smut; general with collections from Choctaw, Comanche, Custer, Dewey, Garfield, Garvin, Hughes, Johnston, Latimer, McClain, Payne, Pittsburg, Pottawatomie, Seminole, Tillman, Woodward.
- Virus*, Mosaic.

ZINNIA

- Z. ELEGANS Jacq., COMMON ZINNIA.
- Alternaria* sp., Leaf spot; Payne.
- Cicinnobolus cesatii* DeBy., on *Erysiphe cichoracearum* DC.; Payne.
- Erysiphe cichoracearum* DC., Powdery mildew; general with collections from McCurtain, Payne, Washita.
- Sclerotium bataticola* Taub., Charcoal rot; Payne, Tulsa.
- Virus*, Mosaic; Payne.

ZIGADENUS

- Z. NUTTALLII Gray, NUTTALL DEATHCAMAS.
- Uromyces zygadeni* Pk., Rust; Cherokee.

ZIZYPHUS

- Z. JUJUBA Mill., COMMON JUJUBE.
- Alternaria* sp., Leaf spot; Woodward.

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- ACTINOMYCES SCABIES**
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- ACTINOPELTE DRYINA**
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- AECIDIUM MEXICANUM**
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- AECIDIUM PHYSALIDIS**
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- AGROBACTERIUM RHIZOGENES**
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ALTERNARIA NELUMBII

Nelumbo lutea

ALTERNARIA SOLANI

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Ligustrum vulgare
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Prunus persica
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Prunus spp. (Plum)
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- BOTRYTIS CONVOLUTA**
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- CERCOSPORA CRUENTA
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- CERCOSPORA DATURICOLA
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- CERCOSPORA LATHYRINA
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- CERCOSPORA PTELEAE
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- CERCOSPORA SALVIICOLA
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- CERCOSPORA SEMINALIS
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- CERCOSPORA ZEBRINA
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Ipomoea purpurea
Ipomoea sp.
Pinus echinata
- COLEOSPORIUM SOLIDAGINIS**
Solidago gigantea var.
leiophylla
Solidago spp.
- COLEOSPORIUM VERNONIAE**
Vernonia baldwini
Vernonia crinita
Vernonia fasciculata
- COLLETOTRICHUM ATRAMENTARIUM**
Solanum melongena
Solanum tuberosum
- COLLETOTRICHUM ERUMPENS**
Rumex crispus
- COLLETOTRICHUM GLYCINES**
Soja max
- COLLETOTRICHUM GRAMINICOLUM**
Agropyron elongatum
Agropyron intermedium
Agropyron smithii
Andropogon scoparius

<i>Aristida dichotoma</i>	COLLETOTRICHUM
<i>Avena sativa</i>	LILIACEARUM
<i>Bromus carinatus</i>	<i>Amaryllis</i> spp.
<i>Chloris verticillata</i>	<i>Hemerocallis</i> sp.
<i>Cynodon dactylon</i>	<i>Iris</i> spp.
<i>Dactylis glomerata</i>	<i>Kniphofia elegans</i>
<i>Diarrhena americana</i>	<i>Lilium monadelphum</i>
<i>Digitaria filiformis</i>	COLLETOTRICHUM
<i>Echinochloa crusgalli</i>	LINDEMUTHIANUM
<i>Eleusine indica</i>	<i>Phaseolus vulgaris</i>
<i>Elymus junceus</i>	COLLETOTRICHUM
<i>Elymus virginicus</i>	OMNIVORUM
<i>Eragrostis trichodes</i>	<i>Aspidistra elatior</i>
<i>Festuca elatior</i>	COLLETOTRICHUM
<i>Festuca versuta</i>	PHOMOIDES
<i>Hordeum bulbosum</i>	<i>Lycopersicon esculentum</i>
<i>Hordeum vulgare</i>	COLLETOTRICHUM
<i>Melica nitens</i>	SMILACIS
<i>Muhlenbergia capillaris</i>	<i>Smilax</i> sp.
<i>Muhlenbergia mexicana</i>	COLLETOTRICHUM
<i>Muhlenbergia racemosa</i>	TRICHELLUM
<i>Panicum boscii</i> var. <i>molle</i>	<i>Hedera helix</i>
<i>Phalaris tuberosa</i> var. <i>stenoptera</i>	COLLETOTRICHUM
<i>Phleum pratense</i>	TRIFOLII
<i>Poa ampla</i>	<i>Medicago hispida</i>
<i>Poa canbyi</i>	<i>Medicago sativa</i>
<i>Secale cereale</i>	<i>Melilotus alba</i>
<i>Sorghum halepense</i>	<i>Trifolium</i> spp.
<i>Sorghum vulgare</i>	COLLETOTRICHUM
<i>Sorghum vulgare</i> var. <i>technicum</i>	TRUNCATUM
<i>Sporobolus asper</i>	<i>Phaseolus lunatus</i>
<i>Sporobolus heterolepis</i>	COLLETOTRICHUM
<i>Triodia albescens</i>	VICIAE
<i>Triodia elongata</i>	<i>Vicia villosa</i>
<i>Tripsacum dactyloides</i>	COLLETOTRICHUM
<i>Triticum aestivum</i>	VIOLAE-ROTUNDIFOLIAE
COLLETOTRICHUM	<i>Viola missouriensis</i>
HIGGINSIANUM	COLLETOTRICHUM
<i>Brassica rapa</i>	VIOLAE-TRICOLORIS
COLLETOTRICHUM	<i>Viola papilionacea</i>
LAGENARIUM	
<i>Citrullus vulgaris</i>	
<i>Cucumis melo</i>	
<i>Cucumis sativus</i>	

- COLLETOTRICHUM SPP.
Carex gravida
Nothoscordum bivalve
Phytolacca americana
- CONIOSPORIUM
 RHIZOPHILUM
Cynodon dactylon
- CONIOTHYRIUM
 FUECKELII
Rosa spp.
Rubus sp. (Raspberry)
- CONIOTHYRIUM ULMI
Ulmus americana
Ulmus crassifolia
- CONIOTHYRIUM SPP.
Cicuta maculata
Dodecatheon meadia
Jasminum floridum
Jasminum humile
Jasminum nudiflorum
Ligustrum vulgare
Mahonia aquifolium
Rubus sp. (Boysenberry)
Rubus sp. (Youngberry)
- CORTICIUM SP.
Sophora affinis
- CORYNEBACTERIUM
 FASCIANS
Lathyrus odoratus
- CORYNEBACTERIUM
 INSIDIOSUM
Medicago sativa
- CORYNEBACTERIUM
 MICHIGANENSE
Lycopersicon esculentum
- CORYNEBACTERIUM
 SEPEDONICUM
Solanum tuberosum
- CORYNEUM BELJERINCKII
Prunus persica
- CORYNEUM KUNZEI
Quercus spp.
- CORYNEUM MICROSTICTUM
Rosa spp.
- CORYNEUM THUJINUM
Thuja occidentalis
- CORYNEUM SPP.
Salix spp.
Ulmus spp.
- CRONARTIUM QUERCUEM
Quercus spp.
- CRYPTOSPORELLA UM-
 BRINA
Rosa spp.
- CURVULARIA GENICU-
 LATA
Eremochloa ophiuroides
- CURVULARIA SPICIFERA
Triticum aestivum
- CUSCUTA ARVENSIS
Ambrosia psilostachya
Aplopappus ciliatus
Artemisia mexicana
Bacopa sp.
Comandra umbellata
Coreopsis verticillata
Gutierrezia dracunculoides
Lepidium virginicum
Lespedeza spp.
Oenothera spp.
Psoralea digitata
Rudbeckia amplexicaulis
Solidago graminifolia
Verbena simplex
- CUSCUTA COMPACTA
Alnus rugosa
Alnus sp.
Solidago spp.
- CUSCUTA CORYLI
Ambrosia psilostachya
Tragia nepetaefolia

CUSCUTA CUSPIDATA

Ambrosia psilostachya
Ambrosia trifida
Aplopappus ciliatus
Aplopappus divaricatus
Coreopsis tinctoria
Coreopsis verticillata
Erigeron canadensis
Galium aparine
Heliotropium sp.
Solidago spp.
Tribulus terrestris
Vernonia baldwini

CUSCUTA GLOMERATA

Liatris punctata

CUSCUTA GRONOVII

Ampelopsis arborea

CUSCUTA INDECORA

Actinea linearifolia
Ambrosia psilostachya
Aster ericoides
Coreopsis verticillata
Iva ciliata
Medicago sativa
Vicia americana

CUSCUTA OBTUSIFLORA

Ambrosia sp.

CUSCUTA SPP.

Ambrosia trifida
Gutierrezia sarothrae
Helianthus spp.
Lagerstroemia indica
Medicago sativa
Petunia hybrida
Stillingia sylvatica

CYANOSPORA ALBICEDRAE

Juniperus spp.

CYLINDROSPORIUM

ANGUSTIFOLIUM

Yucca glauca

CYLINDROSPORIUM

APOCYNI

Apocynum androsaemi-
folium
Apocynum cannabinum

CYLINDROSPORIUM

DEFOLIATUM

Celtis occidentalis
Celtis reticulata

CYLINDROSPORIUM

FRAXINI

Fraxinus velutina
Fraxinus velutina var.
toumeyi

CYLINDROSPORIUM

GRISEUM

Sapindus drummondii

CYLINDROSPORIUM

GUTTATUM

Hypoxis hirsuta

CYLINDROSPORIUM

JUGLANDIS

Juglans nigra
Juglans regia

CYLINDROSPORIUM MORI

Morus rubra

CYLINDROSPORIUM

PASSALOROIDES

Amorpha fruticosa

CYLINDROSPORIUM RUBI

Rubus occidentalis
Rubus sp. (Raspberry)

CYLINDROSPORIUM

SALICINUM

Salix spp.

CYLINDROSPORIUM

SCROPHULARIAE

Scrophularia marilandica

- CYLINDROSPORIUM
TRIOSETI
Triosetum perfoliatum
- CYLINDROSPORIUM
ULMICOLA
Morus alba
Morus rubra
- CYLINDROSPORIUM SP.
Cornus stolonifera
Perovskia atriplicifolia
- CYTOSPORA ANNULARIS
Fraxinus nigra
- CYTOSPORA CHRYSOS-
PERMA
Acer spp.
Populus deltoides
Populus spp.
Quercus palustris
Salix spp.
- CYTOSPORA ELAEAGNI
Elaeagnus angustifolia
- CYTOSPORA LEUCOSTOMA
Malus sylvestris
Prunus persica
- CYTOSPORA PLATANI
Platanus occidentalis
- CYTOSPORA SPP.
Juniperus virginiana
Poinciana gilliesi
Thuja occidentalis
- CYTOSPORELLA SPP.
Ligustrum vulgare
- CYTOSPORINA SPP.
Hibiscus syriacus
Koeleruteria paniculata
Poinciana gilliesi
- DAEDALEA AMBIGUA
Ulmus spp.
- DAEDALEA JUNIPERINA
Juniperus virginiana
- DAEDALEA UNICOLOR
Quercus spp.
- DALDINIA CONCENTRICA
Quercus spp.
- DARLUCA FILUM
Lespedeza violacea
Panicum virgatum
Populus deltoides
Secale cereale
- DEMATIUM PULLULANS
Hibiscus syriacus
- DENDROPHOMA OBSCUR-
ANS
Fragaria spp.
- DIAPORTHE BATATATIS
Ipomoea batatas
- DIAPORTHE PHASEO-
LORUM var. SOJAE
Soja max
- DIBOTRYON MORBOSUM
Prunus spp. (Cherry)
Prunus spp. (Plum)
- DIDYMELLA EUMORPHA
Arundinaria gigantea
- DIDYMELLA SPHAEREL-
LOIDES
Yucca glauca
- DIDYMELLA SP.
Callicarpa dichotoma
- DIDYMELLINA IRIDIS
Iris spp.
- DIPLOCARPON EARLIANA
Fragaria spp.
- DIPLOCARPON ROSAE
Rosa spp.
- DIPLODIA CARYOGENA
Carya cordiformis
Zea mays

- DIPLODIA FRUMENTI
Arachis hypogaea
- DIPLODIA NATALENSIS
Citrus trifoliata
- DIPLODIA TUBERICOLA
Ipomoea batatas
- DIPLODIA ZEAЕ
Zea mays
- DIPLODIA SPP.
Citrullus vulgaris
Gossypium hirsutum
Stapelia sp.
- DISAETA SP.
Ipomoea batatas
- DISCOSIA ARTOCREAS
Cercis canadensis
Paeonia spp.
- DOTHICHIZA POPULEA
Populus nigra var.
italica
Populus spp.
- DOTHICHLOE ATRAMEN-
 TOSA
Triodia flava
- DOTHIORELLA RIBIS
Salix discolor
- DOTHIORELLA SMILACINA
Smilax bona-nox
Smilax glauca
Smilax rotundifolia
- DOTHIORELLA ULMИ
Ulmus americana
Ulmus fulva
- DOTHIORELLA SP.
Kolwitzia amabilis
- DOTHISTROMA PINI
Pinus echinata
Pinus nigra var. *austriaca*
- ELLISIELLA CAUDATA
Agropyron trachycaulum
Andropogon furcatus
Andropogon hallii
Andropogon scoparius
Andropogon ternarius
Aristida curtissii
Eragostis secundiflora
Eragostis spectabilis
Koeleria cristata
Manisuris cylindrica
Setaria lutescens
Sorghastrum nutans
- ELSINOE AMPELINA
Vitis spp.
- ELSINOE RANDII
Carya illinoensis
- ELSINOE VENETA
Rubus spp. (Blackberry)
Rubus sp. (Boysenberry)
Rubus sp. (Dewberry)
Rubus sp. (Raspberry)
- EMPUSA APHIDIS on
 ILLINOIA
Medicago sativa
- ENDOCONIDIOPHORA
 FIMBRIATA
Ipomoea batatas
- ENDODOTHELLA TRACYI
Distichilis spicata
- ENDOPHYLLUM TUBER-
 CULATUM
Aithaea rosea
Callirhoe involucrata
- ENTOMOSPORIUM
 MACULATUM
Cydonia oblonga
Pyrus communis
- ENTYLOMA AUSTRALE
Physalis angulata
Physalis mollis
Physalis sp.

ENTYLOMA NYMPHAEAE*Nymphaea odorata***ERWINIA AMYLOVORA***Cydonia oblonga**Malus sylvestris**Prunus* spp. (Plum)*Pyracantha* spp.*Pyrus communis***ERWINIA CACTIDA***Opuntia rafinesquii***ERWINIA CAROTOVORA***Allium cepa**Armoracia rusticana**Asparagus officinalis**Brassica juncea**Brassica oleracea* var.
*capitata**Brassica rapa**Chrysanthemum* spp.*Cucumis melo**Daucus carota**Ipomoea batatas**Iris* spp.*Rheum rhaponticum**Solanum tuberosum***ERWINIA TRACHEIPHILA***Citrullus vulgaris**Cucumis melo**Cucumis sativus***ERYSIPHE CICHORACE-
ARUM***Ambrosia trifida**Aplopappus ciliatus**Aster ericoides**Aster salicifolius**Cucumis sativus**Cucurbita foetidissima**Cucurbita maxima**Cucurbita pepo**Gerbera jamesoni**Hedera helix**Helianthus annuus**Lamium amplexicaule**Liatris scariosa**Plantago major**Rudbeckia amplexicaulis**Sonchus asper**Tragopogon porrifolius**Verbena urticifolia**Zinnia elegans***ERYSIPHE GRAMINIS***Andropogon* sp.*Bromus catharticus**Buchloe dactyloides**Hordeum pusillum**Hordeum vulgare**Poa compressa**Polypogon monspeliensis**Secale cereale**Triticum aestivum***ERYSIPHE LAGERSTROE-
MIAE***Lagerstroemia indica***ERYSIPHE POLYGONI***Brassica rapa**Delphinium* spp.*Lathyrus odoratus**Pisum sativum**Pisum sativum* var.
*arvense**Polygonum aviculare**Strophostyles pauciflora**Trifolium* spp.*Vigna sinensis***EUTYPELLA VITIS***Vitis* spp.**EXOBASIDIUM VACCINII***Rhododendron nudiflorum***FABRAEA MACULATA***Cydonia oblonga**Pyrus communis***FOMES EVERHARTII***Quercus* spp.**FOMES FRAXINOPHILUS***Fraxinus americana*

- FOMES IGNIARIUS
Quercus spp.
- FOMES OHIENSIS
Quercus spp.
- FOMES RIMOSUS
Robinia pseudoacacia
- FOMES SPP.
Acer spp.
Fraxinus spp.
Pinus spp.
- FUMAGO VAGANS
Quercus spp.
- FUSARIUM BATATATIS
Ipomoea batatas
- FUSARIUM CHLAMYDOSPORUM
Gossypium hirsutum
- FUSARIUM EQUISETI var.
BULLATUM
Gossypium hirsutum
- FUSARIUM HYPEROXYSPORUM
Ipomoea batatas
- FUSARIUM LATERITIUM
Hibiscus syriacus
- FUSARIUM LINI
Linum usitatissimum
- FUSARIUM MALLI
Allium cepa
- FUSARIUM MARTII var.
PHASEOLI
Phaseolus vulgaris
- FUSARIUM MONILIFORME
Gossypium hirsutum
Sorghum vulgare var.
technicum
Zea mays
- FUSARIUM OXYSPORUM
Ipomoea batatas
Solanum tuberosum
- FUSARIUM OXYSPORUM f.
CONGLUTINANS
Brassica oleracea var.
capitata
Chrysanthemum spp.
- FUSARIUM OXYSPORUM f.
GLADIOLI
Gladiolus spp.
- FUSARIUM OXYSPORUM f.
LYCOPERSICI
Lycopersicon esculentum
- FUSARIUM OXYSPORUM f.
NIVEUM
Citrullus vulgaris
Cucumis melo
- FUSARIUM OXYSPORUM f.
TRACHEIPHILUM
Soja max
Vigna sinensis
- FUSARIUM OXYSPORUM f.
VASINFECTUM
Gossypium hirsutum
- FUSARIUM RADICICOLA
Ipomoea batatas
- FUSARIUM SCIRPI
Gossypium hirsutum
- FUSARIUM SCIRPI var.
ACUMINATUNA
Gossypium hirsutum
- FUSARIUM SEMITECTUM
Gossypium hirsutum
- FUSARIUM SOLANI
Gossypium hirsutum
- FUSARIUM SOLANI f.
EUMARTII
Solanum tuberosum

- FUSARIUM SOLANI var.
MARTII
Gossypium hirsutum
- FUSARIUM SPP.
Agrostis palustris
Antirrhinum majus
Arachis hypogaea
Capsicum frutescens
Celosia sp.
Chrysanthemum spp.
Citrullus vulgaris
Crotalaria spp.
Cucumis melo
Cucumis sativus
Dahlia spp.
Delphinium spp.
Dianthus caryophyllus
Euonymus spp.
Ligustrum vulgare
Lycopersicon esculentum
Medicago sativa
Melilotus alba
Phaseolus vulgaris
Rheum rhaponticum
Rosa spp.
Sorghum vulgare
Sorghum vulgare var.
sudanense
Triticum aestivum
Tulipa spp.
Zea mays
- FUSICLADIUM DENDRITICUM
Malus sylvestris
- FUSICLADIUM PIRINUM
Chaenomeles lagenaria
- FUSICOCCUM SP.
Pyracantha spp.
- GANODERMA SP.
Colutea arborescens
- GIBBERELLA ZEAE
Avena sativa
Hordeum vulgare
- Secale cereale*
Triticum aestivum
Zea mays
- GLOEODES POMIGENA
Malus sylvestris
Pyrus communis
- GLOEOSPORIUM AMERICANUM
Vicia villosa
- GLOEOSPORIUM APOCRIPTUM
Acer spp.
- GLOEOSPORIUM BETULARUM
Betula nigra
Betula papyrifera
- GLOEOSPORIUM CINGULATUM
Ficus elastica
Smilax spp.
- GLOEOSPORIUM INCONSPICUUM
Ulmus alata
Ulmus americana
Ulmus pumila
Ulmus spp.
- GLOEOSPORIUM LAPORTEAE
Laportea canadensis
- GLOEOSPORIUM MEDICAGINIS
Medicago sativa
- GLOEOSPORIUM MINUTUM
Anthurium andraeanum
Anthurium andraeanum var. *giganteum*
Dieffenbachia picta

- GLOESPORIUM POLY-
MORPHUM
Dracaena fragans
- GLOESPORIUM ROSAE
Rosa spp.
- GLOESPORIUM ULMEUM
Ulmus americana
- GLOESPORIUM ULMI-
COLUM
Ulmus fulva
Ulmus pumila
- GLOESPORIUM SPP.
Achillea millefolium
Artistida purpurea
Juglans nigra
Juniperus spp.
Quercus nigra
Rubus sp. (Boysenberry)
Rubus sp. (Youngberry)
Sabatia campestris
- GLOMERELLA CINGULATA
Capsicum frutescens
Carya illinoensis
Citrus paradisi
Ligustrum vulgare
Nandina domestica
- GLOMERELLA GLYCINES
Soja max
- GLOMERELLA GOSSYPHII
Gossypium hirsutum
- GLOMERELLA SP.
Elymus canadensis
- GNOMONIA CARYA
Carya glabra
- GNOMONIA LEPTOSTYLA
Juglans nigra
- GNOMONIA ULMEA
Ulmus americana
Ulmus spp.
- GNOMONIA VENETA
Platanus occidentalis
Quercus spp.
- GUIGNARDIA AESCULI
Aesculus glabra
Aesculus hippocastanum
Aesculus octandra
- GUIGNARDIA BIDWELLII
Parthenocissus tricuspidata
Vitis berlandieri
Vitis munsoniana
Vitis spp.
- GUIDNARDIA BOLTONIAE
Boltonia diffusa
- GYMNOCONIA PECKIANA
Rubus spp. (Blackberry)
Rubus sp. (Raspberry)
- GYMNOSPORANGIUM
BETHELI
Juniperus scopulorum
- GYMNOSPORANGIUM
CLAVIPES
Cydonia oblonga
Juniperus virginiana
- GYMNOSPORANGIUM
EFFUSUM
Juniperus spp.
- GYMNOSPORANGIUM
EXIGUUM
Juniperus mexicana
Juniperus scopulorum
- GYMNOSPORANGIUM
FLORIFORME
Juniperus virginiana
Juniperus virginiana var.
globosa
- GYMNOSPORANGIUM
GLOBOSUM
Crataegus viridis
Crataegus spp.
Juniperus virginiana
Malus baccata

GYMNOSPORANGIUM

JUNIPERI-VIRGINIANAE

- Juniperus chinensis* var.
pfitzeriana
Juniperus virginiana
Juniperus virginiana var.
canaerti
Juniperus virginiana var.
glauca
Juniperus virginiana var.
pyramidalis
Malus ioensis
Malus sylvestris

GYMNOSPORANGIUM

NIDUS-AVIS

- Juniperus virginiana*

GYMNOSPORANGIUM SPP.

- Crataegus* spp.
Juniperus monosperma
Juniperus virginiana
Juniperus spp.

HELICOBASIDIUM PUR-
PUREUM

- Medicago sativa*
Solanum tuberosum

HELMINTHOSPORIUM

AVENAE

- Avena sativa*

HELMINTHOSPORIUM

CYNODONTIS

- Cynodon dactylon*

HELMINTHOSPORIUM

GIGANTEUM

- Cynodon dactylon*

HELMINTHOSPORIUM

GRAMINEUM

- Hordeum vulgare*

HELMINTHOSPORIUM

LEERSII

- Bromus inermis*

HELMINTHOSPORIUM

SATIVUM

- Avena sativa*
Hordeum vulgare
Triticum aestivum

HELMINTHOSPORIUM

TERES

- Hordeum vulgare*

HELMINTHOSPORIUM

TURCICUM

- Buchloe dactyloides*
Setaria italica
Sorghum halepense
Zea mays

HELMINTHOSPORIUM SPP.

- Andropogon saccharoides*
Cynodon dactylon
Gossypium hirsutum
Sorghum vulgare
Sorghum vulgare var.
sudanense
Triticum aestivum
Uniola latifolia
Zea mays

HENDERSONIA EFFUSA

- Aristida purpurascens*

HENDERSONIA MACULANS

- Camellia japonica*

HETERODERA MARIONI

- Althaea rosea*
Anchusa myosotidiflora
Anthirrhinum majus
Aquilegia sp.
Armoracia rusticana
Beta vulgaris
Brassica oleracea var.
capitata
Brassica rapa
Carya illinoensis
Catalpa speciosa
Chrysanthemum spp.
Citrullus vulgaris

<i>Coleus</i> sp.	<i>Vigna sinensis</i>
<i>Cucumis melo</i>	<i>Vitis</i> spp.
<i>Cucumis sativus</i>	<i>Zea mays</i>
<i>Cucurbita maxima</i>	HETEROSPORIUM
<i>Cycas</i> sp.	IRIDIS
<i>Cyclamen</i> spp.	<i>Belamcanda chinensis</i>
<i>Cyclamen</i> spp.	<i>Iris versicolor</i>
<i>Dahlia</i> spp.	HETEROSPORIUM
<i>Daucus carota</i>	SAMBUCI
<i>Dianthus caryophyllus</i>	<i>Sambucus canadensis</i>
<i>Ficus aurea</i>	HETEROSPORIUM
<i>Fragaria</i> spp.	VARIABLE
<i>Fraxinus pennsylvanica</i>	<i>Spinacia oleracea</i>
<i>Fraxinus pennsylvanica</i> var. <i>lanceolata</i>	HETEROSPORIUM SPP.
<i>Fraxinus</i> spp.	<i>Cheiranthus cheiri</i>
<i>Gardenia</i> sp.	<i>Lathyrus odoratus</i>
<i>Gaylussacia</i> spp.	<i>Triticum aestivum</i>
<i>Gossypium hirsutum</i>	HYDNUM SP.
<i>Hibiscus esculentus</i>	<i>Ulmus</i> spp.
<i>Hydrangea</i> sp.	HYPOXYLON ATROPUNC-
<i>Ipomoea batatas</i>	TATUM
<i>Ipomoea purpurea</i>	<i>Quercus marilandica</i>
<i>Iris</i> spp.	HYPOXYLON SP.
<i>Lactuca sativa</i>	<i>Platanus occidentalis</i>
<i>Lathyrus odoratus</i>	KELLERMANIA YUCCIGENA
<i>Lycopersicon esculentum</i>	<i>Yucca filamentosa</i>
<i>Medicago sativa</i>	<i>Yucca glauca</i>
<i>Morus alba</i>	KUEHNEOLA UREDINIS
<i>Pastinaca sativa</i>	<i>Rubus</i> spp. (Blackberry)
<i>Phaseolus aureus</i>	KUNKELIA NITENS
<i>Phaseolus vulgaris</i>	<i>Rubus hispidus</i>
<i>Prunus persica</i>	<i>Rubus</i> spp. (Blackberry-
<i>Prunus persica</i> var. <i>nectarina</i>	<i>Rubus</i> sp. (Boysenberry)
<i>Rheum rhaponticum</i>	LASIOSPHAERIA SP.
<i>Robinia pseudoacacia</i>	<i>Artemisia ludoviciana</i>
<i>Rosa</i> spp.	LENZITES SAEPIARIA
<i>Solanum tuberosum</i>	<i>Pinus</i> spp.
<i>Spinacia oleracea</i>	LENZITES SP.
<i>Tragopogon porifolius</i>	<i>Quercus macrocarpa</i>
<i>Ulmus americana</i>	
<i>Ulmus pumila</i>	
<i>Ulmus</i> spp.	
<i>Viburnum</i> sp.	

- LEPTOSPHAERIA CON-
IOTHYRIUM
Rubus idaeus
Rubus spp. (Blackberry)
- LEPTOSPHAERIA
MUHLENBERGIAE
Muhlenbergia sobolifera
- LEPTOSPHAERIA VAGA-
BUNDA
Hydrangea arborescens
- LEPTOTHYRIUM ACER-
INUM
Acer saccharum
- LEPTOTHYRIUM NER-
VISEDUM
Carya illinoensis
- LEPTOTHYRIUM POMI
Diospyros kaki
Malus sylvestris
Rubus idaeus
- LOPHIOSTOMA ASPERUM
Ulmus americana
- MACROPHOMA BOLTONIAE
Boltonia diffusa
- MACROPHOMA NEGUN-
DINIS
Acer negundo
- MACROPHOMA NERVICOLA
Quercus alba
- MACROPHOMA SPP.
Cotinus coggygria
Salix discolor
Sophora affinis
- MACROPHOMINA PHASEOLI
Soja max
Vigna sinensis
- MACROSPORIUM CAMEL-
LIAE
Camellia japonica
- MACROSPORIUM CHEI-
RANTHI
Spinacia oleracea
- MACROSPORIUM COM-
MUNE
Cicuta maculata
- MACROSPORIUM CU-
CUMERINUM
Citrullus vulgaris
Cucumis melo
Cucumis sativus
- MARSSONINA JUGLANDIS
Juglans nigra
Juglans regia
- MARSSONINA MARTINI
Quercus muhlenbergii
Quercus stellata
- MARSSONINA OCHROLEUCA
Castanea pumila
Castanea sp.
- MARSSONINA POPULI
Populus alba
Salix spp.
- MELAMPSORA ABIETI-
CAPRAEARUM
Salix interior
Salix longipes
Salix nigra
- MELAMPSORA ABIETIS-
CANADENSIS
Populus sargentii
- MELAMPSORA ALBERTENSIS
Populus angustifolia
Populus spp.
- MELAMPSORA BIGELOWII
Salix spp.
- MELAMPSORA LINI
Linum usitatissimum

- MELAMPSORA MEDUSAE
Populus deltoides
Populus spp.
- MELAMPSORELLA
CERASTII
Picea sp.
- MELANCONIUM FULIGINEUM
Vitis spp.
- MELANOPSICHIMUM
AUSTRO-AMERICANA
Polygonum lapathifolium
Polygonum pennsylvanicum
- MELASMIA HYPOPHYLLA
Gleditsia triacanthos
- METASPHAERIA SP.
Echinaca angustifolia
- MICROSPHAERA ALNI
Gleditsia triacanthos
Ligustrum amurense
Lonicera heckrotti
Platanus occidentalis
Quercus muhlenbergii
Quercus rubra
Quercus stellata
Syringa persica
Syringa vulgaris
- MICROSPHAERA DIFFUSA
Symphoricarpos orbiculatus
- MICROSTROMA JUGLANDIS
Carya texana
- MONASCUS PURPUREUS
Sorghum halepense
- MONILINIA FRUCTICOLA
Malus sylvestris
Prunus armeniaca
Prunus persica
Prunus spp. (Cherry)
Prunus spp. (Plum)
Vitis spp. (Grape)
- MONILOCHAETES INFUSCANS
Ipomoea batatas
- MONOCHAETIA DESMAZIERII
Quercus marilandica
- MORENOELLA QUERCINA
Quercus spp.
- MUCILAGO SPONGIOSA
Cynodon dactylon
Fragaria spp.
Ilex spp.
- MYCOSPHAERELLA
CARYIGENA
Carya illinoensis
- MYCOSPHAERELLA
CERCIDICOLA
Cercis canadensis
- MYCOSPHAERELLA
FRAGARIAE
Fragaria virginiana
Fragaria spp.
Fraxinus velutina
- MYCOSPHAERELLA
LETHALIS
Mellilotus alba
- MYCOSPHAERELLA
POLYMORPHA
Platanus occidentalis
- MYCOSPHAERELLA
RUBI
Rubus spp. (Blackberry)
Rubus sp. (Dewberry)
Rubus sp. (Loganberry)
Rubus sp. (Raspberry)
Rubus sp. (Youngberry)
- MYCOSPHAERELLA
SENTINA
Pyrus communis

- MYCOSPHAERELLA THUJAE**
Thuja occidentalis
- MYCOSPHAERELLA ULMI**
Ulmus fulva
- MYCOSPHAERELLA SPP.**
Quercus spp.
Rubus sp. (Boysenberry)
- MYXOSPORIUM HYMENU-
LOIDES**
Ulmus pumila
- MYXOSPORIUM SP.**
Carya illinoensis
- ECTRIA CINNABARINA**
Ailanthus altissima
Albizia julibrissin
Althaea sp.
Broussonetia papyrifera
Ficus carica
Juglans regia
Koeleruteria paniculata
Ligustrum vulgare
Melia azedarach
Mimosa sp.
Poinciana gilliesi
Populus deltoides
Sophora japonica
Ulmus americana var.
pendula
Ulmus pumila
Ulmus spp.
- NEMATOSPORA CORYLI**
Phaseolus aureus
Soja max
Vigna sinensis
- NEOFABRAEA MALICOR-
TICIS**
Malus sylvestris
- NIGROSPORA SPHAERICA**
Sorghum vulgare
- NUMMULARIA DISCRETA**
Malus sylvestris
- OPHIOBOLUS CARICETI**
Elymus villosus
- OPHIOBOLUS GRAMINIS**
Hordeum vulgare
Secale cereale
- PARODIELLA GRIFFITHSII**
Psoralea tenuiflora
- PARODIELLA PERISPOR-
IOIDES**
Desmodium marilandicum
Psoralea cuspidata
Psoralea tenuiflora var.
floribunda
- PELLICULARIA FILAMEN-
TOSA**
Ipomoea batatas
Lycopersicon esculentum
Phaseolus vulgaris
Rheum rhaponticum
Solanum tuberosum
- PELTELLEA SP.**
Liquidambar styraciflua
- PENICILLIUM DIGITATUM**
Citrus paradisi
- PENICILLIUM GLADIOLI**
Gladiolus spp.
- PENICILLIUM SPP.**
Cucumis melo
Dahlia spp.
Gossypium hirsutum
Hyacinthus spp.
Ipomoea batatas
Malus sylvestris
Narcissus spp.
Tulipa spp.
Zea mays
- PENIOPHORA SPP.**
Quercus spp.
Ulmus americana
- PERONOSPORA ANTIR-
RHINI**
Antirrhinum majus

- PERONOSPORA ARTHURI
Oenothera laciniata
- PERONOSPORA CORYDALIS
Corydalis sp.
- PERONOSPORA EFFUSA
Chenopodium album
Monolepis nuttalliana
Spinacia oleracea
- PERONOSPORA LINARIAE
Linaria canadensis
- PERONOSPORA MAN-
SHURICA
Soja max
- PERONOSPORA PARASITICA
Brassica oleracea var.
capitata
Capsella bursa-pastoris
Descurainia richardsonii
spp. *incisa*
Lepidium virginicum
- PERONOSPORA SCHLEIDENI
Allium cepa
- PERONOSPORA TRIFOLI-
ORUM
Medicago sativa
- PERONOSPORA VICIAE
Pisum sativum var.
arvense
- PERONOSPORA SPP.
Chenopodium sp.
Teucrium canadense
Valerianella sp.
- PESTALOTIA OENOTHERAE
Oenothera serrulata
- PESTALOTIA FUNEREA
Thuja occidentalis
- PESTALOTIA RHODO-
DENDRI
Rhododendron spp.
- PESTALOTIA SP.
Cercis canadensis
- PEZICULA CARPINEA
Carpinus caroliniana
- PHAEOSPHAERELLA
PASPALI
Paspalum sp.
- PHAEOTRYPE SP.
Populus spp.
- PHLEOSPORA ACERIS
Acer saccharinum
- PHLEOSPORA MULTI-
MACULANS
Juglans regia
- PHOMA BETAE
Beta vulgaris
- PHOMA BOLTONIAE
Boltonia diffusa
- PHOMA CONIDIOGENA
Buxus sempervirens
- PHOMA DESTRUCTIVA
Lycopersicon esculentum
- PHOMA LINGAM
Brassica oleracea var.
capitata
- PHOMA MEDICAGINIS
Medicago sativa
- PHOMA POMI
Malus sylvestris
- PHOMA RUBICOLA
Rubus idaeus
- PHOMA TERRESTRIS
Solanum carolinense
Vigna sinensis
- PHOMA SPP.
Carya illinoensis
Opuntia rafinesquii
Perovskia atriplicifolia
Sorghum vulgare
Vitex agnuscactus

- PHOMOPSIS FOVEOLARIS
Euonymus fortunei var.
vegetus
- PHOMOPSIS GARDENIAE
Gardenia sp.
- PHOMOPSIS JUNIPERO-
VORA
Juniperus spp.
Thuja occidentalis
- PHOMOPSIS VEXANS
Solanum melongena
- PHOMOPSIS SP.
Bromus commutatus
- PHORADENDRON FLAVE-
SCENS
Acer spp.
Carya illinoensis
Juglans nigra
Populus deltoides
Quercus marilandica
Quercus rubra f. *triloba*
Quercus stellata
Ulmus alata
Ulmus americana
Ulmus fulva
Ulmus spp.
- PHRAGMIDIUM SP.
Rosa spp.
- PHYLLACHORA BOUTE-
LOUAE
Bouteloua curtipendula
Buchloe dactyloides
- PHYLLACHORA DIPLO-
CARPA
Distichlis spicata
- PHYLLACHORA GRAMINIS
Panicum virgatum
- PHYLLACHORA LUTEO-
MACULATA
Andropogon furcatus
Andropogon saccharoides
Andropogon scoparius
- PHYLLACHORA PUNCTUM
Panicum commutatum
Panicum huachucae var.
fasciculatum
Panicum tennesseense
- PHYLLACHORA VULGATA
Muhlenbergia capillaris
Sporobolus cryptandrus
- PHYLLACHORA WILSONI
Panicum obtusum
Paspalum stramineum
- PHYLLACHORA SP.
Dactylis glomerata
- PHYLLACTINIA CORYLEA
Cladrastis lutea
Quercus marilandica
- PHYLLOSTICTA APOCYNII
Apocynum cannabinum
- PHYLLOSTICTA ARBUTI-
FOLIA
Aronia sp.
- PHYLLOSTICTA ARGYREA
Elaeagnus angustifolia
- PHYLLOSTICTA BATATAS
Ipomoea batatas
- PHYLLOSTICTA BER-
BERIDIS
Berberis mentorensis
- PHYLLOSTICTA BETULINA
Betula nigra
- PHYLLOSTICTA BRUNNEA
Populus alba var.
pyramidalis
Populus angustifolia
- PHYLLOSTICTA BUMELII-
FOLIA
Bumelia lanuginosa
- PHYLLOSTICTA CARYAE
Carya ovata

- PHYLLOSTICTA CATALPAE
Catalpa speciosa
- PHYLLOSTICTA CELTIDIS
Celtis occidentalis
- PHYLLOSTICTA CERCIDI-
 COLA
Cercis canadensis
- PHYLLOSTICTA CIRCULI-
 GERENS
Rumex altissimus
- PHYLLOSTICTA COM-
 MONSII
Paeonia spp.
- PHYLLOSTICTA CONCAVA
Opuntia rafinesquii
- PHYLLOSTICTA DECIDUA
Lycopus americanus
Monarda dispersa
Monarda punctata
- PHYLLOSTICTA ERRATICA
Ulmus americana
- PHYLLOSTICTA EUONYMI
Euonymus fortunei var.
vegetus
Euonymus spp.
- PHYLLOSTICTA FRAXINI-
 COLA
Fraxinus velutina
- PHYLLOSTICTA GROSSU-
 LARIAE
Ribes aureum
- PHYLLOSTICTA HIBISCINA
Hibiscus esculentus
Hibiscus rosa-sinensis
- PHYLLOSTICTA ILICICOLA
Ilex opaca
- PHYLLOSTICTA JAPONICA
Berberis thunbergii
- PHYLLOSTICTA LAGER-
 STROEMIAE
Lagerstroemia indica
- PHYLLOSTICTA LAR-
 PENTAE
*Ceratostigma plumbag-
 inoides*
- PHYLLOSTICTA LIVIDA
Quercus stellata
- PHYLLOSTICTA LONI-
 CERAE
Lonicera sp.
- PHYLLOSTICTA MAXIMA
Rhododendron spp.
- PHYLLOSTICTA MEDI-
 CAGINIS
Medicago sativa
- PHYLLOSTICTA MELA-
 LEUCA
Ulmus americana
- PHYLLOSTICTA MINIMA
Acer rubrum
- PHYLLOSTICTA NANDINAE
Nandina domestica
- PHYLLOSTICTA OPACA
Ilex opaca
- PHYLLOSTICTA PAVIAE
Aesculus pavia
- PHYLLOSTICTA PHASE-
 OLINA
Phaseolus vulgaris
Strophostyles helvola
Vigna sinensis
- PHYLLOSTICTA PODO-
 PHYLLI
Podophyllum peltatum
- PHYLLOSTICTA SASSA-
 FRAS
Sassafras albidum

- PHYLLOSTICTA SMILACIS**
Smilax glauca
- PHYLLOSTICTA SOLITARIA**
Malus sylvestris
Pyrus communis
- PHYLLOSTICTA SORBI**
Sorbus americana
- PHYLLOSTICTA SYMPHOR-
ICARPI**
Symphoricarpos sp.
- PHYLLOSTICTA SYRINGAE**
Syringa vulgaris
- PHYLLOSTICTA TERM-
INALIS**
Forsythia viridissima
- PHYLLOSTICTA TUB-
EROSA**
Asclepiodora decumbens
- PHYLLOSTICTA VIRIDIS**
Fraxinus americana
- PHYLLOSTICTA VITICOLA**
*Parthenocissus quinque-
folia*
Vitis cinerea
Vitis rupestris
- PHYLLOSTICTA SPP.**
Bromus inermis
Callirhoe involucreta
Carpinus caroliniana
Cicuta maculata
Cocculus carolinus
Commelina virginica
Crataegus spp.
Euphorbia corollata
Ilex spp.
Koeleruteria paniculata
Lonicera orientalis var.
caucasica
Mahonia aquifolium
Panicum obtusum
Smilax hispida
- Smilax lanceolata*
Sorghastrum nutans
Tribulus terrestris
Ulmus fulva
Viburnum rufidulum
- PHYMATOTRICHUM
OMNIVORUM**
Celtis occidentalis
Gleditsia triacanthos
Gossypium hirsutum
Gymnocladus dioica
Ipomoea batatas
Juniperus spp.
Ligustrum sp.
Lycopersicon esculentum
Medicago sativa
Morus alba
Populus spp.
Prunus armeniaca
Pyrus communis
Robinia pseudoacacia
Sapindus drummondii
Soja max
Ulmus pumila
Ulmus spp.
Vigna sinensis
- PHYSALOSPORA OBTUSA**
Malus sylvestris
Pyrus communis
- PHYSARUM CINEREUM**
Cynodon dactylon
- PHYSODERMA ZEA-
MAYDIS**
Zea mays
- PHYTOMONAS DISSOLVENS**
Zea mays
- PHYTOMONAS LATHYRI**
Lathyrus odoratus
Melilotus alba
- PHYTOMONAS RHAPONTICA**
Rheum rhaponticum

PHYTOPHTHORA CACTORUM <i>Fragaria</i> spp. <i>Rheum rhabonticum</i>	PLASMOPARA HALSTEDII <i>Ambrosia trifida</i> <i>Hymenopappus scabiosaeus</i> <i>Rudbeckia hirta</i>
PHYTOPHTHORA CAMBIVORA <i>Castanea pumila</i>	PLASMOPARA VITICOLA <i>Vitis rupestris</i> <i>Vitis</i> spp.
PHYTOPHTHORA CRYPTOGEA <i>Antirrhinum majus</i>	PLENODOMUS DESTRUENS <i>Ipomoea batatas</i>
PHYTOPHTHORA FRAGARIAE <i>Fragaria</i> spp.	PLEOSPHAERULINA BRIOSIANA <i>Medicago sativa</i>
PHYTOPHTHORA TERRESTRIS <i>Lycopersicon esculentum</i>	PLEOSPORA TROPAEOLI <i>Tropaeolum majus</i>
PHYTOPHTHORA SPP. <i>Solanum tuberosum</i> <i>Zinnia elegans</i>	PLEOSPORA SP. <i>Bromus tectorum</i>
PIGGOTIA FRAXINI <i>Fraxinus americana</i>	PODOSPHAERA LEUCOTRICHA <i>Malus sylvestris</i>
PILEOLARIA EFFUSA <i>Rhus rhomboidea</i>	PODOSPHAERA OXYCANTHAE <i>Prunus cerasus</i> <i>Prunus</i> spp. (Cherry)
PILEOLARIA PATZCUARENSIS <i>Rhus trilobata</i>	POLYPORUS ARCULARIUS <i>Quercus</i> spp.
PILEOLARIA TOXICODENDRI <i>Rhus toxicodendron</i>	POLYPORUS CONCHIFER <i>Ulmus americana</i>
PIRICULARIA GRISEA <i>Cynodon dactylon</i> <i>Digitaria sanguinalis</i> <i>Setaria lutescens</i>	POLYPORUS DICHROUS <i>Quercus</i> spp.
PLASMODIOPHORA BRASSICAE <i>Brassica oleracea</i> var. <i>capitata</i>	POLYPORUS DRYADEUS <i>Quercus alba</i> <i>Quercus marilandica</i> <i>Quercus</i> spp.
PLASMOPARA GERANII <i>Geranium carolinianum</i>	POLYPORUS DRYOPHILUS <i>Quercus marilandica</i>
	POLYPORUS GILVUS <i>Acer</i> spp. <i>Betula nigra</i> <i>Quercus</i> spp.

- POLYPORUS HIRSUTUS
Betula nigra
Forsythia spp.
Quercus spp.
- POLYPORUS OBTUSUS
Quercus marilandica
- POLYPORUS VERSICOLOR
Fraxinus spp.
Malus sylvestris
Quercus macrocarpa
Quercus spp.
- PORIA SP.
Prunus serotina
- PSEUDOMONAS ALBO-
 PRECIPITANS
Sorghum vulgare
- PSEUDOMONAS ANDRO-
 POGONI
Sorghum vulgare
- PSEUDOMONAS ATRO-
 FACIENS
Triticum aestivum
- PSEUDOMONAS CORONA-
 FACIENS
Avena sativa
- PSEUDOMONAS GLYCINEA
Soja max
- PSEUDOMONAS LACHRY-
 MANS
Cucumis sativus
- PSEUDOMONAS MARGI-
 NATA
Gladiolus spp.
Iris spp.
- PSEUDOMONAS MEDICA-
 GINIS
Medicago sativa
- PSEUDOMONAS MEDICA-
 GINIS var. PHASEOL-
 ICOLA
Phaseolus vulgaris
Pueraria thunbergiana
- PSEUDOMONAS MORI
Morus alba
- PSEUDOMONAS PISI
Pisum sativum
Pisum sativum var.
arvense
- PSEUDOMONAS SYRINGAE
Phaseolus lunatus
Prunus persica
Prunus spp. (Cherry)
Sorghum halepense
Sorghum vulgare
Vigna catjang
Vigna sinensis
- PSEUDOMONAS TABACI
Nicotiana tabacum
Soja max
- PSEUDOMONAS WOODSII
Dianthus caryophyllus
- PSEUDOPERONOSPORA
 CUBENSIS
Cucumis melo
Cucumis sativus
- PSEUDOPEZIZA MEDI-
 CAGINIS
Medicago sativa
- PSEUDOPEZIZA TRIFOLII
Trifolium spp.
- PUCGINIA ABSINTHII
Artemisia gnaphalodes
- PUCGINIA AMPHIGENA
Calamovilfa gigantea
Calamovilfa longifolia
Smilax bona-nox
Smilax herbacea
- PUCGINIA ANOMALA
Hordeum vulgare
- PUCGINIA ANDROPOGONIS
Andropogon furcatus
Andropogon glomeratus

- Andropogon scoparius*
Andropogon ternarius
Andropogon virginicus
- Puccinia andropogonis onobrychidis**
Baptisia australis
Baptisia bracteata
Dalea enneandra
- Puccinia andropogonis oxalidis**
Oxalis corniculata
- Puccinia andropogonis pentstemonis**
Penstemon jamesii
Penstemon tenuiflorus
- Puccinia andropogonis xanthoxyli**
Zanthoxylum americanum
Zanthoxylum clava-herculis
- Puccinia anthirrhini**
Antirrhinum majus
- Puccinia aristidae**
Chenopodium album
Distichlis spicata
Distichlis stricta
- Puccinia arundinariae**
Arundinaria gigantea
- Puccinia asparagi**
Asparagus officinalis
- Puccinia asteris**
Aster drummondii
- Puccinia atropuncta**
Veratrum woodii
- Puccinia bartholomaei**
Asclepias tuberosa
Asclepiodora decumbens
Asclepiodora viridis
Bouteloua curtipendula
Leptochloa filiformis
- Puccinia bouTelouae**
Bouteloua curtipendula
- Puccinia canaliculata**
Cyperus esculentus
Cyperus rotundus
Cyperus strigosus
Cyperus spp.
Xanthium spp..
- Puccinia caricis grossulariata**
Ribes odoratum
- Puccinia caulicola**
Salvia lanceolata
- Puccinia cenchri**
Cenchrus pauciflorus
- Puccinia chloridis**
Chloris verticillata
- Puccinia chrysanthemi**
Chrysanthemum morifolium
Chrysanthemum spp.
- Puccinia cirsii**
Cirsium discolor
Cirsium undulatum var.
megacephalum
- Puccinia conoclinii**
Eupatorium coelestinum
- Puccinia convolvuli**
Convolvulus arvensis
- Puccinia coronata**
Avena sativa
Lolium multiflorum
Lolium perenne
Phalaris caroliniana
Polypogon monspeliensis
- Puccinia crandallii**
Symphoricarpos orbiculatus
- Puccinia crassipes**
Ipomoea purpurea

- PUCGINIA CYNODONTIS**
Cynodon dactylon
- PUCGINIA CYPERI**
Cyperus filiculmis
Cyperus pseudovegetus
Cyperus schweinitzi
Cyperus spp.
Erigeron canadensis
Erigeron strigosus
- PUCGINIA EATONIAE**
Sphenopholis obtusata
- PUCGINIA ELEOCHARIDIS**
Eleocharis obtusa
Eleocharis tenuis
Eupatorium serotinum
- PUCGINIA ELLISIANA**
Andropogon scoparius
- PUCGINIA EMACULATA**
Panicum capillare
Paspalum stramineum
- PUCGINIA ERAGROSTIDIS**
Eragrostis pilosa
- PUCGINIA EXTENSICOLA**
ERIGERONTIS
Carex bicknellii
Carex gravida
Carex vulpinoidea
Erigeron strigosus
- PUCGINIA EXTENSICOLA**
OENOTHERAE
Oenothera spp.
- PUCGINIA FARINACEA**
Salvia pitcheri
- PUCGINIA FLACCIDA**
Echinochloa crusgalli
- PUCGINIA GLUMARUM**
Hordeum pusillum
- PUCGINIA GRAMINIS**
Aegilops cylindrica
Agropyron dasystachyum
Agropyron inerme
Agropyron smithii
- Agropyron trachycaulum*
Agrostis alba
Bromus commutatus
Bromus secalinus
Dactylis glomerata
Elymus canadensis
Elymus glaucus
Elymus junceus
Elymus virginicus
Hordeum bulbosum
Hordeum pusillum
Hordeum vulgare
Phalaris angusta
Secale cereale
- PUCGINIA GRAMINIS**
AVENAE
Avena sativa
- PUCGINIA GRAMINIS**
PHLEI-PRATENSIS
Phleum pratense
- PUCGINIA GRAMINIS**
TRITICI
Triticum aestivum
Triticum dicoccum
Triticum spelta
- PUCGINIA GRINDELIAE**
Chrysopsis berlandieri
Hymenopappus carolinensis
- PUCGINIA HELIANTHI**
Helianthus annuus
Helianthus hirsutus
Helianthus mollis
Helianthus petiolaris
Helianthus tuberosus
Helianthus spp.
- PUCGINIA HIERACII**
Pyrrhoppappus carolinianus
Pyrrhoppappus grandiflorus
Pyrrhoppappus multicaulis
Taraxacum officinale
- PUCGINIA IMPOSITA**
Leptoloma cognatum

- PUCCINIA IRIDIS
Iris spp.
- PUCCINIA IRREQUISITA
Centaurea americana
- PUCCINIA JONESII
Lomatium daucifolium
Lomatium orientale
- PUCCINIA KANSENSIS
Buchloe dactyloides
- PUCCINIA LUXURIOSA
Sporobolus airoides
- PUCCINIA MALVACEARUM
Althaea rosea
Malva rotundifolia
- PUCCINIA MENTHAE
Monarda fistulosa var.
mollis
Pycnanthemum pilosum
- PUCCINIA MILLEFOLII
Artemisia ludoviciana
- PUCCINIA OBLIQUA
Gonolobus laevis
Philibertia cynanchoides
Vincetoxicum sp.
- PUCCINIA OBTECTA
Scirpus americanus
- PUCCINIA OBTEGENS
Cirsium undulatum var.
megacephalum
- PUCCINIA PANICI
Euphorbia marginata
Panicum virgatum
- PUCCINIA PERIDERMIOS-
 PORA
Fraxinus spp.
Spartina gracilis
Spartina pectinata
- PUCCINIA PHRAGMITIS
Rumex venosus
- PUCCINIA PODOPHYLLI
Podophyllum peltatum
- PUCCINIA POLYGONI-
 AMPHIBII
Polygonum lapathifolium
- PUCCINIA POLYGONI-
 AMPHIBII CONVOLVULI
Polygonum dumetorum
Polygonum scandens
- PUCCINIA POLYGONI-
 AMPHIBII PERSICARIAE
Polygonum hartwrightii
Polygonum punctatum
- PUCCINIA PURPUREA
Sorghum halepense
Sorghum vulgare
- PUCCINIA RUBIGO-VERA
 AGROPYRINA
Bromus commutatus
Lolium perenne
- PUCCINIA RUBIGO-VERA
 AGROPYRINA
Agropyron smithii
Clematis sp.
Elymus virginicus
- PUCCINIA RUBIGO-
 VERA APOCRYPTA
Ellisia nyctelea
- PUCCINIA RUBIGO-VERA
 IMPATIENTIS
Elymus canadensis
Elymus virginicus
- PUCCINIA RUBIGO-VERA
 SECALIS
Secale cereale
- PUCCINIA RUBIGO-VERA
 TRITICI
Agropyron trichophoron
Triticum aestivum
Triticum spelta

- PUCGINIA SCHEDONNARDI**
Callirhoe digitata
Callirhoe involucrata
Gossypium hirsutum
Muhlenbergia mexicana
Muhlenbergia schreberi
Triplasis purpurea
- PUCGINIA SESSILIS**
Phalaris angusta
Smilacina racemosa
- PUCGINIA SEYMOURIANA**
Apocynum sibiricum
Spartina pectinata
- PUCGINIA SHERARDIANA**
Sphaeralcea coccinea
- PUCGINIA SIMULANS**
Sporobolus cryptandrus
- PUCGINIA SMILACIS**
Smilax bona-nox
Smilax glauca
Smilax rotundifolia
Smilax spp.
- PUCGINIA SORGHI**
Oxalis filipes
Oxalis violacea
Zea mays
- PUCGINIA SUBSTRIATA**
Paspalum stramineum
- PUCGINIA TRIPSACI**
Andropogon furcatus
- PUCGINIA TUMIDIPES**
Lycium pallidum
- PUCGINIA VERNONIAE**
Vernonia baldwini
Vernonia crinita
Vernonia interior
- PUCGINIA VEXANS**
Bouteloua curtipendula
- PUCGINIA VILFAE**
Sporobolus asper
Sporobolus neglectus
Verbena canadensis
Verbena stricta
Verbena urticifolia
- PUCGINIA VIOLAE**
Viola missouriensis
Viola papilionacea
Viola sp.
- PUCGINIA VIRGATA**
Sorghastrum nutans
- PUCGINIA WINDSORIAE**
Ptelea trifoliata
Triodia flava
- PUCGINIA XANTHII**
Ambrosia artemisiifolia
Ambrosia trifida
Xanthium canadense
Xanthium chinense
Xanthium inflexum
Xanthium italicum
Xanthium orientale
Xanthium speciosum
Xanthium spp.
- PYRENOCHAETA SP.**
Glyceria striata
- PYRENOPEZIZA MEDI-CAGINIS**
Medicago sativa
- PYRENOPHORA COMATA**
Petalostemum oligophyllum
Petalostemum purpureum
- PYTHIUM APHANIDER-MATUM**
Lycopersicon esculentum
Phaseolus vulgaris
Raphanus sativus
- PYTHIUM ARRHENOMANES**
Sorghum vulgare

PYTHIUM DEBARYANUM

Euphorbia pulcherrima
Zea mays

PYTHIUM SPP.

Citrullus vulgaris
Ipomoea batatas
Lactuca sativa
Piqueria trinervia
Triticum aestivum

RAMULARIA CEPHALANTHI

Cephalanthus occidentalis

RAMULARIA HAMAMELIDIS

Hamamelis virginiana

RAMULARIA MONILOIDES

Myrica cerifera

RAMULARIA OBOVATA

Rumex crispus
Rumex hastatulus
Rumex venosus

RAMULARIA VERONICAE

Veronica peregrina

RAVENELIA EPIPHYLLA

Tephrosia virginiana

RHIZOCTONIA SOLANI

Acer saccharinum
Agrostis sp.
Antirrhinum majus
Arachis hypogaea
Callistephus chinensis
Cyamopsis tetragonoloba
Epidendrum sp.
Fragaria spp.
Fraxinus spp.
Gossypium hirsutum
Hibiscus esculentus
Jasminum humile
Lathyrus odoratus
Linum usitatissimum
Lycopersicon esculentum
Medicago sativa
Pisum sativum
Prunus spp. (Plum)

Raphanus sativus

Solanum tuberosum
Zea mays

RHIZOCTONIA SPP.

Cynodon dactylon
Triticum aestivum

RHIZOPUS NIGRICANS

Fragaria spp.
Gossypium hirsutum
Ipomoea batatas
Prunus persica
Zea mays

RHYNCHOSPORIUM

SECALIS
Hordeum vulgare

RHYTISMA ACERINUM

Acer spp.

RHYTISMA VACCINII

Gaylussacia spp.
Vaccinium sp.

RHYTISMA SP.

Ilex decidua

SCHIZOPHYLLUM

COMMUNE
Acer spp.
Carya illinoensis
Malus sylvestris
Prunus spp. (Cherry)

SCHIZOPHYLLUM SP.

Ipomoea batatas

SCLEROSPORA FARLOWII

Cynodon dactylon

SCLEROSPORA GRAMIN-
ICOLA

Zea mays

SCLEROSPORA MACROS-
PORA

Hordeum vulgare

SCLEROTINIA TRIFOL-
IORUM

Trifolium spp.

SCLEROTIUM BATATICOLA

Arachis hypogaea
Bouteloua curtipendula
Catalpa speciosa
Chrysanthemum spp.
Crotalaria spp.
Gossypium hirsutum
Ipomoea batatas
Juniperus virginiana
Medicago sativa
Phaseolus aureus
Soja max
Solanum tuberosum
Sorghum vulgare
Sorghum vulgare var.
sudanense
Sorghum vulgare var.
technicum
Verbena hybrida
Vigna sinensis
Zea mays
Zinnia elegans

SCLEROTIUM ROLFSII

Allium cepa
Aquilegia sp.
Arachis hypogaea
Gossypium hirsutum
Ipomoea batatas
Lycopersicon esculentum
Physostegia virginiana
Solanum tuberosum
Vigna sinensis

SCLEROTIUM SCLEROTIORUM

Lactuca sativa

SCOLECOTRICHUM

GRAMINIS
Alopecurus carolinianus
Alopecurus geniculatus
Dactylis glomerata
Hordeum pusillum
Hordeum vulgare

SCOLECOTRICHUM

MACULICOLA
Arundo donax
Phragmites communis

SELENOPHOMA SPP.

Sporobolus asper var.
hookeri
Sporobolus vaginiflorus
Triodia flava
Triodia stricta

SEPTORIA ANDROPOGONIS

Andropogon furcatus

SEPTORIA APII

Apium graveolens var.
dulce

SEPTORIA ARGEMONES

Argemone mexicana

SEPTORIA ASTERINA

Aster drummondii

SEPTORIA BATATICOLA

Ipomoea batatas

SEPTORIA BETAE

Beta vulgaris

SEPTORIA BROMI

Bromus carinatus
Bromus commutatus
Bromus purgans
Bromus secalinus
Bromus texensis

SEPTORIA CACALIAE

Cacalia tuberosa

SEPTORIA CENTAUREI-

COLA var. BREVISPORA
Centaurea americana

SEPTORIA CHRYSANTHEMELLA

Chrysanthemum spp.

- SEPTORIA CONVULVULI
Convolvulus arvensis
- SEPTORIA CORNICOLA
Cornus asperifolia
Cornus stolonifera
- SEPTORIA CYANI
Centaurea cyanus
- SEPTORIA DIVARICATA
Phlox sp.
- SEPTORIA DRYINA
Quercus coccinea
Quercus marilandica
Quercus palustris
- SEPTORIA ELYMI
Elymus canadensis
- SEPTORIA ERIGERONTIS
Erigeron canadensis
Erigeron strigosus
- SEPTORIA ERIGERONTIS
var. BOLTONIAE
Boltonia diffusa
Boltonia latisquama
- SEPTORIA FRAXINI
Fraxinus nigra
Fraxinus spp.
- SEPTORIA GAILLARDIAE
Gaillardia aristata
Gaillardia pulchella
Gaillardia sp.
- SEPTORIA GAURINA
Gaura biennis
Gaura coccinea
- SEPTORIA GLADIOLI
Gladiolus spp.
- SEPTORIA HELIANTHI
Helianthus annuus
Helianthus spp.
- SEPTORIA INCONSPICUA
Plantago purshii
- SEPTORIA IRREGULARIS
Rhus toxicodendron
- SEPTORIA JATHROPHAE
Cnidioscolus texanus
- SEPTORIA LACTUCICOLA
Lactuca canadensis
- SEPTORIA LAMII
Lamium amplexicaule
- SEPTORIA LAVANDULAE
Lavandula sp.
- SEPTORIA LEPTOSTACHYA
Phryma leptostachya
- SEPTORIA LINICOLA
Linum usitatissimum
- SEPTORIA LIQUIDAMBARIS
Liquidambar styraciflua
- SEPTORIA LOBELIAE
Lobelia cardinalis
Lobelia siphilitica
- SEPTORIA LYCOPERSICI
Lycopersicon esculentum
- SEPTORIA MACROSPORIA
Chrysanthemum spp.
- SEPTORIA MAGNOLIAE
Magnolia spp.
- SEPTORIA MALVICOLA
Althaea rosea
- SEPTORIA MUNROAE
Munroa squarrosa
- SEPTORIA MUSIVA
Populus deltoides
- SEPTORIA NODORUM
Bromus sp.
Triticum aestivum
- SEPTORIA OENOTHERAE
Oenothera biennis
Oenothera laciniata

- Oenothera missouriensis*
Oenothera missouriensis
 var. *incana*
Oenothera oklahomensis
Oenothera pallida
Oenothera rhombipetala
Oenothera speciosa
- SEPTORIA PASSERINI
Hordeum vulgare
- SEPTORIA PETROSELINI
Petroselinum crispum
- SEPTORIA PISI
Pisum sativum
- SEPTORIA POLYGONORUM
Polygonum pennsylvanicum
- SEPTORIA POPULI
Populus deltoides
- SEPTORIA PTELEAE
Ptelea trifoliata
- SEPTORIA PYRICOLA
Pyrus communis
- SEPTORIA RIBIS
Ribes odoratum
Ribes spp.
- SEPTORIA RUBI
Rubus spp. (Blackberry)
Rubus sp. (Dewberry)
- SEPTORIA RUDBECKIAE
Rudbeckia hirta
- SEPTORIA RUMICIS
Rumex altissimus
- SEPTORIA SAMBUCINA
Sambucus canadensis
- SEPTORIA SCUTELLARIAE
Scutellaria integrifolia
Scutellaria parvula
- SEPTORIA SISYMBRII
Descurainia richardsonii
 ssp. *incisa*
- SEPTORIA SPECULARIAE
Specularia biflora
Specularia perfoliata
- SEPTORIA TRILLII
Trillium recurvatum
- SEPTORIA TRITICI
Triticum aestivum
- SEPTORIA ULMI
Ulmus spp.
- SEPTORIA VALERIANELLAE
Valerianella radiata
- SEPTORIA VERBASCICOLA
Verascum blattaria
- SEPTORIA VERBENAE
Verbena bracteata
Verbena canadensis
Verbena pumila
Verbena urticifolia
- SEPTORIA WISTARIAE
Wistaria sp.
- SEPTORIA SPP.
Agropyron cristatum
Agropyron trachycaulum
Aplopappus ciliatus
Boueloua curtispindula
Bouteloua gracilis
Carthamus tinctorius
Chrysanthemum frutescens
Cynodon dactylon
Dactylis glomerata
Fuchsia sp.
Manisuris cylindrica
Panicum clandestinum
Panicum virgatum
Plantago major
Pyrrhopappus carolinianus
Pyrrhopappus multicaulis
Silene antirrhina
Solidago spp.
Sporobolus clandestinus
- SOROSPORIUM ELLISII
Andropogon furcatus

- SOROSPORIUM SYNTHESISMAE
Cenchrus pauciflorus
Digitaria sanguinalis
- SPHACELOTHECA CRUENTA
Sorghum halepense
Sorghum vulgare
- SPHACELOTHECA OCCIDENTALIS
Andropogon furcatus
Andropogon scoparius
- SPHACELOTHECA REILIANA
Sorghum vulgare
Zea mays
- SPHACELOTHECA SORGHII
Sorghum halepense
Sorghum vulgare
- SPHAEROPSIS LINEARIS
Carya cordiformis
Carya ovata
- SPHAEROPSIS MORI
Morus sp.
- SPHAEROPSIS RHAMNI
Rhamnus cathartica
- SPHAEROPSIS SYRINGAE
Syringa vulgaris
- SPHAEROPSIS ULMICOLA
Ulmus spp.
- SPHAEROPSIS SPP.
Juniperus virginiana
Prunus spp. (Plum)
- SPHAEROTHECA HUMULI
Fragaria spp.
- SPHAEROTHECA PANNOSA
Rosa spp.
- SPHAEROTHECA SP.
Rosa spp.
- SPONGOSPORA SUBTERRANEA
Solanum tuberosum
- SPORIDESMIUM CAPSULARUM
Catalpa speciosa
- SPORONEMA PHACIDIODES
Medicago sativa
- STAGONOSPORA ARENARIA
Bouteloua curtipendula
- STAGONOSPORA ISCHAEMI
Andropogon furcatus
Andropogon hallii
- STAGONOSPORA SPP.
Axonopus compressus
Sorghastrum nutans
- STEMPHYLIUM BOTRYOSUM
Allium cepa
- STEMPHYLIUM TRITICI
Triticum aestivum
- STEREUM ALBOBADIUM
Forsythia spp.
- STEREUM FASCIATUM
Quercus spp.
- STEREUM FRUSTULOSUM
Quercus spp.
- STEREUM LOBATUM
Quercus spp.
- STEREUM PURPUREUM
Celtis sp.
Prunus persica
Syringa vulgaris
- STEREUM RAMEALE
Betula nigra
Quercus spp.
- STEREUM SP.
Quercus macrocarpa
- SYNCHYTRIUM FULGENS
Oenothera laciniata

- SYNCHYTRIVM GERANII
Geranium carolinianum
- SYNCHYTRIVM STELLARIAE
Stellaria media
- TAPHRINA CAERULESCENS
Quercus alba
Quercus marilandica
Quercus rubra f. triloba
Quercus spp.
- TAPHRINA COMMUNIS
Prunus americana
Prunus spp. (Cherry)
Prunus spp. (Plum)
- TAPHRINA DEARNESSII
Acer rubrum
- TAPHRINA DEFORMANS
Prunus persica
- TAPHRINA MIRABILIS
Prunus angustifolia
Prunus sp.
- TAPHRINA ROBINSONIANA
Alnus incana
- TAPHRINA ULMI
Ulmus fulva
Ulmus pumila
- THIELAVIA BASICOLA
Nicotiana tabacum
- TILLETIA CARIES
Triticum aestivum
- TILLETIA FOETIDA
Triticum aestivum
- TILLETIA OKLAHOMAE
Aristida longespica
- TILLETIA PULCHERRIMA
Panicum virgatum
- TILLETIA TEXANA
Hordeum pusillum
- TRAMETES SEPIUM
Quercus spp.
- TRANZSCHELIA PRUNISPINOSAE
Prunus americana
Prunus angustifolia
Prunus besseyi
Prunus munsoniana
Prunus orthosepala
Prunus spp. (Cherry)
Prunus spp. (Plum)
- TRICHODERMA KONINGII
Ipomoea batatas
- TUBERCULINA FLAVOGRANULATA
Desmodium paniculatum
- TYLENCHUS DIPSACI
Ipomoea batatas
Medicago sativa
- UNCINULA MACROSPORA
Ulmus alata
Ulmus fulva
- UNCINULA NECATOR
Vitis spp.
- UNCINULA PARVULA
Celtis spp.
- UROCYSTIS AGROPYRI
Elymus virginicus
- UROCYSTIS CEPULAE
Allium cepa
- UROCYSTIS OCCULTA
Secale cereale
- UROMYCES CALADII
Arisaema dracontium
Arisaema triphyllum
- UROMYCES CARYOPHYLLINUS
Dianthus caryophyllus

- UROMYCES DACTYLIDIS
Dactylis glomerata
- UROMYCES DICTYOS-
 PERMA
Euphorbia dictyosperma
- UROMYCES ELEGANS
Trifolium carolinianum
Trifolium procumbens
- UROMYCES ERAGROSTIDIS
Eragrostis pectinacea
Eragrostis spectabilis
- UROMYCES GRAMINICOLA
Aegilops cylindrica
Panicum virgatum
Stillingia sylvatica
- UROMYCES HEDYSARI-
 PANICULATI
Desmodium paniculatum
Desmodium sessilifolium
- UROMYCES HORDEINUS
Hordeum pusillum
Nothoscordum bivalve
- UROMYCES JUNCI
Helianthus petiolaris
- UROMYCES LESPEDEZAE-
 PROCUMBENTIS
Lespedeza hirta
Lespedeza intermedia
Lespedeza procumbens
Lespedeza repens
Lespedeza stuvei
Lespedeza violacea
Lespedeza virginica
- UROMYCES PECKIANUS
Aristida basramea
Aristida curtissii
Aristida desmantha
Aristida longespica
Aristida oligantha
Plantago aristata
Plantago heterophylla
Plantago purshii
Plantago virginica
- UROMYCES PHASEOLI
 STROPHOSTYLIS
Strophostyles helvola
Strophostyles pauciflora
- UROMYCES PHASEOLI
 TYPICA
Phaseolus vulgaris
- UROMYCES PHASEOLI
 VIGNAE
Vigna sinensis
- UROMYCES PLUMBARIUS
Gaura biennis
Gaura coccinea
Gaura sinuata
Oenothera biennis
Oenothera laciniata
- UROMYCES PRIMAVERILIS
Nothoscordum bivalve
- UROMYCES PROEMINENS
 EUPHORBIICOLA
Euphorbia humistrata
Euphorbia maculata
Euphorbia stictospora
- UROMYCES PROEMINENS
 MYRISTICA
Euphorbia marginata
- UROMYCES PROEMINENS
 POINSETTIAE
Euphorbia dentata
Euphorbia marginata
- UROMYCES PROEMINENS
 TYPICA
Euphorbia maculata
- UROMYCES PSORALEAE
 ARGOPHYLLAE
Psoralea tenuiflora
Psoralea tenuiflora var.
floribunda
- UROMYCES SPERMACOCES
Diodia teres

- UROMYCES STRIATUS
 MEDICAGINIS
 Medicago lupulina
 Medicago sativa
- UROMYCES TRIFOLII
 FALLENS
 Trifolium pratense
- UROMYCES ZYGADENI
 Zygadenus nuttallii
- UROPYXIS AMORPHAE
 Amorpha canescens
 Amorpha fruticosa
- USTILAGO AVENAE
 Avena sativa
- USTILAGO BOUTELOUAE
 Bouteloua gracilis
 Bouteloua hirsuta
- USTILAGO BULLATA
 Bromus catharticus
 Bromus inermis
- USTILAGO CRUS-GALLI
 Echinochloa crusgalli
- USTILAGO CYNODONTIS
 Cynodon dactylon
- USTILAGO HORDEI
 Hordeum vulgare
- USTILAGO KOLLERI
 Avena sativa
- USTILAGO MAYDIS
 Zea mays
- USTILAGO MINIMA
 Stipa comata
- USTILAGO NIGRA
 Hordeum vulgare
- USTILAGO NUDA
 Hordeum vulgare
- USTILAGO RABENHOR-
 STIANA
 Digitaria sanguinalis
- USTILAGO STRIAEFORMIS
 Elymus virginicus
 Poa pratensis
- USTILAGO TRICUSPIDIS
 Triodia flava
- USTILAGO TRITICI
 Secale cereale
 Triticum aestivum
- USTILAGO ZEAЕ
 Euchlaena sp.
- USTILAGO SP.
 Andropogon saccharoides
- VALSA AMBIENS
 Malus sylvestris
- VALSA CELTIDIS
 Celtis occidentalis
- VALSA LEUCOSTOMA
 Malus sylvestris
 Prunus persica
 Prunus spp. (Cherry)
- VALSA MACROCARPA
 Quercus macrocarpa
- VALSA SPP.
 Albizia julibrissin
 Populus spp.
 Robinia pseudoacacia
- VALSARIA ALLANTOSPORA
 Acer negundo
- VENTURIA INAEQUALIS
 Malus sylvestris
 Pyracantha coccinea var.
 lalandii
- VENTURIA PYRINA
 Pyrus communis
- VERMICULARIA COMPACTA
 Dahlia spp.

- VERTICILLIUM ALBOAT-
RUM
Antirrhinum majus
Gossypium hirsutum
- XANTHOMONAS CAMPES-
TRIS
Brassica oleracea var.
botrytis
Brassica oleracea var.
capitata
- XANTHOMONAS GUM-
MISUDANS
Gladiolus spp.
- XANTHOMONAS HOLCICOLA
Sorghum halepense
Sorghum vulgare
- XANTHOMONAS JUGLANDIS
Juglans regia
- XANTHOMONAS MALVA-
CEARUM
Gossypium arboreum
Gossypium barbadense
Gossypium contextum
Gossypium herbaceum
Gossypium hirsutum
Gossypium peruvianum
Gossypium sturti
- XANTHOMONAS PHASEOLI
Phaseolus aureus
Phaseolus vulgaris
Vigna sinensis
- XANTHOMONAS PHASEOLI
var. SOJENSE
Soja max
- XANTHOMONAS PRUNI
Prunus armeniaca
Prunus persica
Prunus persica var.
nectarina
Prunus spp. (Cherry)
Prunus spp. (Plum)
- XANTHOMONAS TRANS-
LUCENS f. sp. UNDULOSA
Triticum aestivum
- XANTHOMONAS VESCI-
CATORIA
Capsicum frutescens
Lycopersicon esculentum
- XANTHOMONAS VIGNICOLA
Vigna sinensis
- XYLARIA MALI
Malus sylvestris
- XYLARIA SP.
Prunus spp.
- VIRUS DISEASES:
- ASTER YELLOWS
Erigeron strigosus
Lactuca sativa
- BUNCH DISEASE
Carya illinoensis
- CURLY TOP
Lycopersicon esculentum
Spinacia oleracea
- DOUBLE-VIRUS STREAK
Lycopersicon esculentum
- LEAF CURL
Rubus sp. (Raspberry)
- LEAF ROLL
Solanum tuberosum
- ALFALFA MOSAIC
Medicago sativa
- CARNATION MOSAIC
Dianthus caryophyllus
- CELERY MOSAIC
Apium graveolens var. *dulce*
- COMMON BEAN MOSAIC
Phaseolus vulgaris

- CUCUMBER MOSAIC
Cucumis melo
Cucumis sativus
Cucurbita maxima
Pentunia hybrida
Spinacia oleracea
- DAHLIA MOSAIC
Dahlia spp.
- MILD MOSAIC
Solanum tuberosum
- NARCISSUS MOSAIC
Narcissus spp.
- ORNITHOGALUM MOSAIC
Ornithogalum thyrsoides
 var. *aureum*
- PHYTOLACCA MOSAIC
Phytolacca americana
- RUGOSE MOSAIC
Solanum tuberosum
- TOBACCO MOSAIC
Nicotiana tabacum
- TOMATO MOSAIC
Lycopersicon esculentum
- MOSAIC
Amaryllis spp.
Capsicum frutescens
Cyamopsis tetragonoloba
Melilotus alba
Prunus persica
Rubus sp. (Raspberry)
Setaria italica
Soja max
Triticum aestivum
Vigna sinensis
Zea mays
Zinnia elegans
- PHONY DISEASE
Prunus persica
- PURPLE TOP WILT
Solanum tuberosum
- RINGSPOT
Antirrhinum majus
- ROSETTE
Prunus persica
- SINGLE-VIRUS STREAK
Lycopersicon esculentum
- SPINDLE TUBER
Solanum tuberosum
- STRAWBERRY CRINKLE
Fragaria spp.
- WESTERN YELLOW BLIGHT
Lycopersicon esculentum
- WITCHES BROOM
Solanum tuberosum
- YELLOW S
Prunus persica
- NONPARASITIC DISEASES:
 BITTER PIT
Malus sylvestris
- BLACK HEART
Solanum tuberosum
- BLACK LEAF SPOT
Diospyros virginiana
- BLAST
Avena sativa
- BLOSSOM-END ROT
Lycopersicon esculentum
- BROWNING
Pinus spp.
- BUD DROP
Gardenia sp.
- CATFACE
Lycopersicon esculentum
- DROUGHT INJURY
Gossypium hirsutum
Medicago sativa
Thuja occidentalis

ENLARGED LENTICELS
Solanum tuberosum

FASCIATION
Antirrhinum majus
Ipomoea batatas

FROST INJURY
Malus sylvestris
Prunus persica
Prunus spp. (Cherry)
Prunus spp. (Plum)
Pyrus communis
Rubus spp. (Blackberry)
Rubus sp. (Raspberry)

HAIL INJURY
Prunus persica

HAIR SPROUT
Solanum tuberosum

HEAT CANKER
Linum usitatissimum

HEAT INJURY
Medicago sativa

HOLLOW HEART
Solanum tuberosum

IRON DEFICIENCY
Sorghum vulgare

JONATHON SPOT
Malus sylvestris

KELSEY SPOT
Prunus spp. (Plum)

JUNE YELLOWS
Fragaria spp.

LEAF VARIEGATION
Fragaria spp.

LIGHTNING INJURY
Gossypium hirsutum

MANGANESE DEFICIENCY
Gossypium hirsutum

MEASLES
Vitis spp.

POTASH DEFICIENCY
Gossypium hirsutum

ROSETTE
Carya illinoensis

SUN SCALD
Prunus spp. (Plum)
Thuja occidentalis

SUN SCORCH
Gossypium hirsutum

TIP BLIGHT
Antirrhinum majus

TIPBURN
Lactuca sativa
Solanum tuberosum

WATER BERRY
Vitis spp.

WATER CORE
Malus sylvestris

WINTER BROWNING
Magnolia spp.

WINTER INJURY
Medicago sativa

UNDETERMINED DISEASES:

ANGULAR YELLOW SPOT
Prunus persica

BROWN BLOTCH
Pyrus communis

MEASLES
Malus sylvestris

STIPPLE SPOT
Prunus persica

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