

# Common Names for Plant Diseases

In 1978 The American Phytopathological Society established a committee to develop listings of APS approved names for plant pathogens and the diseases they incite. These names are then considered the preferred names for use in APS journals and other publications. The Committee on Standardization of Common Names for Plant Diseases published lists of preferred names for 35 commodities in 1985 (Plant Disease 69:649-676).

The following eight lists are presented for reference. They

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## Almond (*Prunus dulcis*) (Mill.) D. A. Webb

J. M. Ogawa, Primary Collator

| Common name                      | Pathogen or cause  |
|----------------------------------|--|
| Almond bull mission              | Genetic (nontransmissible)   |
| Almond corky growth (on kernels) | Cause unknown  |
| Almond corky spot                | Cause unknown (nontransmissible)   |
| Almond foamy canker              | Cause unknown  |
| Almond leaf scorch               | Unidentified rickettsialike bacterium  |
| Almond noninfectious bud failure | Genetic (nontransmissible)   |
| Almond virus (bud failure)       | Prunus ring spot virus—calico strain   |
| Almond yellow bud mosaic         | Tomato ring spot virus—yellow bud mosaic strain  |
| Armillaria crown and root rot    | <i>Armillaria mellea</i> (Vahl: Fr.) P. Kumm. (anamorph: <i>Rhizomorpha subcorticalis</i> Pers.)   |
| Bacterial canker and blast       | <i>Pseudomonas syringae</i> pv. <i>syringae</i> van Hall   |
| Band canker                      | <i>Botryosphaeria dothidea</i> (Moug.: Fr.) Ces. & de Not.   |
| Brown rot blossom and blight     | <i>Monilinia fructicola</i> (Winter) Honey   |
| Ceratocystis canker              | <i>M. laxa</i> (Aderhold & Ruhland) Honey  |
| Crown gall                       | <i>Ceratocystis fimbriata</i> Ellis & Halst. <i>Agrobacterium tumefaciens</i> (Smith & Townsend) Conn  |
| Dagger nematode                  | <i>Xiphinema</i> spp.  |
| Green fruit rot                  | <i>Botrytis cinerea</i> Pers.: Fr. (teleomorph: <i>Botryotinia fuckeliana</i> (de Bary) Whetzel)   |
| Hull rot                         | <i>Monilinia fructicola</i> (Winter) Honey <i>M. laxa</i> (Aderhold & Ruhland) Honey <i>Rhizopus stolonifer</i> (Ehrenb.: Fr.) Vuill.  |
| Leaf blight                      | <i>Hendersonia rubi</i> West.  |
| Leaf rust                        | <i>Tranzschelia discolor</i> (Fuckel) Tranz. & Litv. f. sp. <i>dulcis</i>  |
| Phytophthora crown and root rot  | <i>Phytophthora</i> spp.   |
| Powdery mildew                   | <i>Podosphaera tridactyla</i> (Wallroth) de Bary <i>Sphaerotheca pannosa</i> (Wallroth: Fr.) Lev.  |
| Ring nematode                    | <i>Criconebella</i> spp.   |
| Root knot                        | <i>Meloidogyne</i> spp.  |
| Root lesion                      | <i>Pratylenchus</i> spp.   |
| Scab                             | <i>Cladosporium carpophilum</i> Thuem. (teleomorph: <i>Venturia carpophila</i> E. E. Fisher)   |
| Shothole (= Coryneum blight)     | <i>Stigminia carpophila</i> (Lev.) Ellis = <i>Coryneum beyerinckii</i> Oud.  |
| Verticillium wilt                | <i>Verticillium dahliae</i> Kleb.  |
| Wood rots                        | <i>Ganoderma brownii</i> (Murrill) Gilbn. <i>G. lucidum</i> (Curtis: Fr.) P. Karst. <i>Laetiporus sulphureus</i> (Bull.: Fr.) Murrill <i>Perenniporia</i> spp. <i>Schizophyllum commune</i> Fr. <i>Stereum</i> spp. <i>Trametes hirsuta</i> (Wulfen: Fr.) Quel. <i>T. versicolor</i> (L.: Fr.) Pilat |

were previously edited by committee members and taxonomists and published for comment in *Phytopathology News*. To achieve long-term uniformity in nomenclatural standards, the committee has adopted the taxonomic system being prepared for the USDA's second edition of *Agricultural Handbook 165 (Index of Plant Diseases, 1970)*. It is expected that the lists will not be revised for at least five years so that stability in use of common names will be achieved.

The committee thanks the collators of each list and those who have been involved in many days of editorial process.

Richard W. Smiley, *Chairman, Committee on Standardization of Common Names for Plant Diseases*

## Elm (*Ulmus* spp.)

R. Jay Stipes and Richard J. Campana, Primary Collators

| Common name                 | Pathogen or cause  |
|-----------------------------|--|
| Anthraxnose                 | <i>Gloeosporium inconspicuum</i> Cavara = <i>Cylindrosporella inconspicua</i> (Cavara) Arx <i>G. ulmicola</i> Miles  |
| Bacterial wetwood           | <i>Bacillus megaterium</i> de Bary <i>Enterobacter cloacae</i> (Jordan) Hormaeche & Edwards = <i>Erwinia nimipressuralis</i> (Carter) Dye <i>Pseudomonas fluorescens</i> Migula  |
| Black spot                  | <i>Gnomonia ulmea</i> (Schw.: Fr.) Thuem. = <i>Stegophora ulmea</i> (Schw.: Fr.) Syd. & P. Syd. (anamorph: <i>Gloeosporium ulmicola</i> Miles)   |
| Botryodiplodia canker       | <i>Botryodiplodia hydodermia</i> (Sacc.) Petr. in Petr. & Syd. = <i>Sphaeropsis ulmicola</i> Ellis & Everh. <i>B. malorum</i> (Berk.) Petr. & Syd. (teleomorph: <i>Physalospora mutila</i> N. E. Stevens)  |
| Botryosphaeria canker       | <i>Botryosphaeria dothidea</i> (Moug.: Fr.) Ces. & de Not. = <i>B. ribis</i> Gross. & Duggar (anamorph: <i>Dothiorella gregaria</i> Sacc.)   |
| British tar spot            | <i>Dothidella ulmi</i> (Duval: Fr.) Theiss. & Syd.   |
| Chalara root rot            | <i>Chalara thielavioides</i> (Peyronel) Nag Raj & Kendrick.  |
| Coniothyrium canker         | <i>Coniothyrium</i> spp.   |
| Cytospora canker            | <i>Cytospora ambiens</i> Sacc. (teleomorph: <i>Valsa ambiens</i> (Pers.: Fr.) Fr.) <i>C. chrysoesperma</i> (Pers.: Fr.) Fr. (teleomorph: <i>V. sordida</i> Nits.) <i>C. nivea</i> (Hoffm.) Sacc. (teleomorph: <i>Valsa</i> spp.)   |
| Cytosporina canker          | <i>Cytosporina ludibunda</i> Sacc.   |
| Damping-off, Fusarium       | <i>Fusarium</i> spp.   |
| Damping-off, Pythium        | <i>Pythium ultimum</i> Trow  |
| Damping-off, Rhizoctonia    | <i>Rhizoctonia solani</i> Kühn (teleomorph: <i>Thanatephorus cucumeris</i> (Frank) Donk)   |
| Decay (xylem)               | <i>Coriolus versicolor</i> (L.: Fr.) Quel. <i>Flammulina velutipes</i> (Fr.) P. Karst. <i>Ganoderma applanatum</i> (Pers.) Pat. = <i>Fomes applanatus</i> (Pers.) Gill. <i>Phellinus</i> spp. = <i>Fomes</i> spp. <i>Pleurotus</i> spp. <i>Polyporus squamosus</i> Micheli ex Fr. Other basidiomycetes |
| Discoloration (xylem)       | Bacteria, Ascomycetes, Deuteromycetes  |
| Dothiorella canker and wilt | <i>Dothiorella ulmi</i> Verrall & May  |
| Dutch elm disease           | <i>Ophiostoma ulmi</i> (Buisman) Nannf. in Melin & Nannf. = <i>Ceratocystis ulmi</i> (Buisman) C. Moreau (anamorphs: (continued)   |

**Elm (continued)**

| Common name                           | Pathogen or cause  |
|---------------------------------------|--|
|                                       | (1) <i>Pesotum ulmi</i> (Schwarz) Crane & Schoknecht = <i>Graphium ulmi</i> Schwarz  |
|                                       | (2) <i>Sporothrix</i> Hektoen & Perkins = <i>Cephalosporium</i>  |
|                                       | (3) A yeastlike stage = <i>Blastomyces</i>   |
| Elm leaf scorch                       | <i>Xylella fastidiosa</i> Wells et al.   |
| Elm mosaic                            | Elm mosaic virus   |
| Elm mottle                            | Elm mottle virus   |
| Elm stripe                            | Viruslike pathogen   |
| Elm witches' broom                    | Graft transmissible  |
| Elm yellows (= phloem necrosis)       | Mycoplasmalike organism (graft transmissible)  |
| Lance nematode                        | <i>Hoplolaimus</i> spp.  |
| Leaf blister                          | <i>Taphrina ulmi</i> (Fuckel) Johan.   |
| Mistletoe (infection)                 | <i>Phoradendron serotinum</i> (Raf.) M. C. Johnst. = <i>P. flavescens</i> (Pursh.) Nutt.<br><i>P. tomentosum</i> (DC.) Wiens<br><i>Viscum album</i> L.   |
| Nectria canker                        | <i>Nectria</i> spp.<br><i>N. cinnabarina</i> (Tode: Fr.) Fr. (anamorph: <i>Tubercularia</i> sp.)<br><i>N. coccinea</i> Pers.: Fr.<br><i>N. ditissima</i> Tul. & C. Tul.<br><i>N. galligena</i> Bres. |
| Phoma canker                          | <i>Phoma conidiogena</i> Schnegg   |
| Phomopsis canker                      | <i>Phomopsis oblonga</i> (Desm.) Traverso  |
| Phymatotrichum root rot               | <i>Phymatotrichopsis omnivora</i> (Duggar) Hennebert = <i>Phymatotrichum omnivorum</i> Duggar  |
| Phytophthora canker                   | <i>Phytophthora inflata</i> Caroselli & Tucker   |
| Phytophthora root rot                 | <i>Phytophthora megasperma</i> Drechs. var. <i>megasperma</i>  |
| Powdery mildew                        | <i>Phyllactinia corylea</i> (Pers.) P. Karst. emend. Salmon<br><i>P. gutata</i> (Wallr.: Fr.) Lev.<br><i>Uncinula flexuosa</i> Pk.<br><i>U. macrospora</i> Pk.                                       |
| Ring nematode                         | <i>Criconemella</i> spp.   |
| Root-knot nematode                    | <i>Meloidogyne</i> spp.  |
| Schizoxylon canker                    | <i>Schizoxylon microsporium</i> Davidson & Lorenz  |
| Shoestring root rot (oak root fungus) | <i>Armillaria mellea</i> (Vahl: Fr.) Kummer (= <i>Armillariella mellea</i> (Vahl: Fr.) Karst.  |
| Sooty mold                            | <i>Perisporiaceae</i> (Ascomycetes); numerous dark-spored fungi imperfecti   |
| Spiral nematode                       | <i>Helicotylenchus</i> spp.  |
| Stunt nematode                        | <i>Tylenchorhynchus</i> spp.   |
| Thyrostroma canker                    | <i>Thyrostroma compactum</i> (Sacc.) Hoehn.  |
| Tubercularia canker                   | <i>Tubercularia ulmea</i> Carter   |
| Verticillium wilt                     | <i>Verticillium albo-atrum</i> Reinke & Berthold<br><i>V. dahliae</i> Kleb.  |
| Violet root rot                       | <i>Helicobasidium purpureum</i> Pat. (anamorph: <i>Rhizoctonia crocorum</i> (Pers.: Fr.) DC.)  |
| Zonate canker                         | Virus, graft transmissible   |

**English (Persian) Walnut (*Juglans regia* L.)**

**S. M. John Mircetich, Primary Collator**

| Common name                                | Pathogen or cause  |
|--|--|
| Anthraxnose                                | <i>Gnomonia leptostyla</i> (Fr.: Fr.) Ces & de Not (anamorph: <i>Marssonina juglandis</i> (Lib.) Magnus) |
| Armillaria crown and root rot (shoestring) | <i>Armillaria mellea</i> (Vahl: Fr.) P. Kumm. (anamorph: <i>Rhizomorpha subcorticalis</i> Pers.)         |

(continued)

**English Walnut (continued)**

| Common name                                   | Pathogen or cause   |
|---|---|
| root rot                                      |   |
| Bacterial blight                              | <i>Xanthomonas campestris</i> pv. <i>juglandis</i> (Pierce) Dye   |
| Branch wilt                                   | <i>Hendersonula toruloidea</i> Nattrass   |
| Crown gall                                    | <i>Agrobacterium tumefaciens</i> (Smith & Townsend) Conn  |
| Deep bark canker                              | <i>Erwinia rubrifaciens</i> Wilson et al.   |
| Downy leaf spot                               | <i>Microstroma juglandis</i> (Berenger) Sacc.   |
| English walnut blackline                      | Cherry leaf roll virus  |
| English walnut ring spot                      | Cherry leaf roll virus  |
| Leaf chlorosis                                | Iron deficiency   |
| Leaf margin necrosis                          | Boron and/or chlorine toxicity  |
| Little leaf                                   | Zinc deficiency   |
| Phymatotrichum root rot                       | <i>Phymatotrichopsis omnivora</i> (Duggar) Hennebert = <i>Phymatotrichum omnivorum</i> Duggar   |
| Phytophthora crown and root rot               | <i>Phytophthora</i> spp.<br><i>P. cactorum</i> (Lebert & Cohn) J. Schroet.<br><i>P. cinnamomi</i> Rands<br><i>P. citricola</i> Sawada<br><i>P. citrophthora</i> (R. E. Sm. & E. H. Sm.) Leonian<br><i>P. cryptogea</i> Pethy. & Laff.<br><i>P. drechsleri</i> Tucker<br><i>P. megasperma</i> Drechs.<br><i>P. nicotianae</i> Breda de Hann var. <i>parasitica</i> (Dastur) G. M. Waterhouse = <i>P. parasitica</i> Dastur |
| Phytophthora trunk and scaffold branch canker | <i>Phytophthora cactorum</i> (Lebert & Cohn) J. Schroet.<br><i>P. citricola</i> Sawada<br><i>P. citrophthora</i> (R. E. Sm. & E. H. Sm.) Leonian  |
| Pin nematode                                  | <i>Paratylenchus</i> spp.   |
| Ring nematode                                 | <i>Criconemella xenoplax</i> (Raski) Luc & Raski  |
| Ring spot, Ascocytha                          | <i>Ascocytha juglandis</i> Boltshauser  |
| Root knot                                     | <i>Meloidogyne</i> spp.   |
| Root lesion                                   | <i>Pratylenchus vulnus</i> Allen & Jensen   |
| Shallow bark canker                           | <i>Erwinia nigrifluens</i> Wilson et al.  |
| Shell perforation                             | Unidentified  |

**Foliage Plants**

**A. R. Chase, Primary Collator**

| Common name   | Pathogen or cause   | Suscepts |
|---|---|----------|
| ACANTHACEAE ( <i>Aphelandra squarrosa</i> Nees, A [zebra plant]; <i>Fittonia verschaffeltii</i> , F (Lem.) Coem. [nerve plant]) |   |          |
| Bacterial leaf spot   | <i>Xanthomonas campestris</i> (Pammel) Dowson   | A,F      |
| Bidens mottle   | Bidens mottle virus   | F        |
| Corynespora leaf spot   | <i>Corynespora cassiicola</i> (Berk. & M. A. Curtis) Wei  | A        |
| Cucumber mosaic   | Cucumber mosaic virus   | A        |
| Gray mold   | <i>Botrytis cinerea</i> Pers.: Fr. (teleomorph: <i>Botryotinia fuckeliana</i> (de Bary) Whetzel)                            | A        |
| Myrothecium leaf spot   | <i>Myrothecium roridum</i> Tode: Fr.  | A        |
| Phytophthora stem rot   | <i>Phytophthora nicotianae</i> Breda de Haan var. <i>parasitica</i> (Dastur) G. M. Waterhouse = <i>P. parasitica</i> Dastur | A        |
| Rhizoctonia stem rot  | <i>Rhizoctonia solani</i> Kühn (teleomorph: <i>Thanatephorus cucumeris</i> )  | A,F      |

(continued)

**Foliage Plants (continued)**

| Common name  | Pathogens or cause   | Suscepts                 |
|--|--|--------------------------|
|  | (A. B. Frank) Donk)  |                          |
| Southern blight  | <i>Sclerotium rolfsii</i> Sacc. (teleomorph: <i>Athelia rolfsii</i> (Curzi) Tu & Kimbrough)  | A,F                      |
| Stem gall  | <i>Nectriella pironii</i> Alfieri & Samuels (anamorph: <i>Kutilakesa pironii</i> Alfieri)  | A                        |
| AGAVACEAE ( <i>Cordylina</i> sp., C [Ti plant]; <i>Dracaena</i> spp., D; <i>D. sanderana</i> Hort. Sander ex M. T. Mast., Ds [Belgian evergreen]; <i>Sansevieria</i> spp., S [mother-in-law tongue]; <i>Yucca</i> spp., Y [soft tip yucca, Spanish-Bayonet]) |  |                          |
| Anthraxnose  | <i>Glomerella cingulata</i> (Stoneman) Spauld. & Schrenk (anamorph: <i>Colletotrichum gloeosporioides</i> (Penz.) Penz. & Sacc. in Penz.)  | C,D                      |
| Bacterial leaf spot  | <i>Erwinia carotovora</i> subsp. <i>carotovora</i> (Jones) Bergey et al.<br><i>E. chrysanthemi</i> Burkholder, McFadden & Dimock<br><i>E. herbicola</i> (Lohnis) Dye<br><i>Pseudomonas</i> sp. | D,Ds<br>D,Ds<br>Ds<br>Ds |
| Brown leaf spot  | <i>Paraphaeosphaeria obtusispora</i> (Speg.) Hedjaroude = <i>Leptosphaeria obtusispora</i> Speg.   | Y                        |
| Cercospora leaf spot   | <i>Cercospora</i> sp.  | C                        |
| Erwinia blight   | <i>Erwinia carotovora</i> subsp. <i>carotovora</i> (Jones) Bergey et al.<br><i>E. chrysanthemi</i> Burkholder, McFadden & Dimock   | C,D,S<br>C,D,S           |
| Fusarium leaf spot   | <i>Fusarium moniliforme</i> J. Sheldon (teleomorph: <i>Gibberella fujikuroi</i> (Sawada) Ito in Ito & Kimura)  | D                        |
| Gray leaf spot   | <i>Cytosporina</i> sp.   | Y                        |
| Gray mold  | <i>Botrytis cinerea</i> Pers.: Fr.   | D,Ds,Sa                  |
| Phyllosticta leaf spot   | <i>Phyllosticta</i> spp.<br><i>P. draconis</i> Berk.   | C,Ds<br>C,D              |
| Phytophthora stem rot  | <i>Phytophthora nicotianae</i> Breda de Haan var. <i>parasitica</i> (Dastur) G. M. Waterhouse  | C,D                      |
| Red leaf spot  | <i>Fusarium moniliforme</i> J. Sheldon   | S                        |
| Root knot  | <i>Meloidogyne incognita</i> (Kofoid & White) Chitwood   | S                        |
| Root lesion  | <i>Pratylenchus</i> spp.   | C,D                      |
| Southern blight  | <i>Sclerotium rolfsii</i> Sacc. (teleomorph: <i>Athelia rolfsii</i> (Curzi) Tu & Kimbrough)  | All                      |
| Stem rot   | <i>Aspergillus niger</i> Van Tiegh   | Ds,S                     |

ARACEAE (*Aglaonema* spp., Ag [Chinese evergreen and others]; *Anthurium* spp., An; *Caladium* spp., C; *Dieffenbachia* spp., D [dumb cane]; *Epipremnum aureum* (Linden & Andre) Bunt., E [pothos]; *Monstera* spp., M; *Philodendron* spp., P; *P. scandens* C. Koch & H. Sello subsp. *oxycardium* (Schott) Bunt., Ps [heart-leaf philodendron]; *Spathiphyllum* spp., Sp; *Syngonium* spp. [= *Nepthytis* spp.], Sy)

|                               |  |   |
|-------------------------------|--|---|
| Anthraxnose                   | <i>Colletotrichum</i> spp.   | Ag,An,D,<br>P,M,S   |
| Araceae cucumber mosaic       | Cucumber mosaic virus  | D,P   |
| Araceae dasheen mosaic        | Dasheen mosaic virus   | Ag,An,C,<br>D,P,Sp  |
| Bacterial leaf spots          | <i>Erwinia carotovora</i> subsp. <i>carotovora</i> (Jones) Bergey et al.<br><i>E. chrysanthemi</i> Burkholder, McFadden & Dimock<br><i>Pseudomonas cichorii</i> (Swingle) Stapp<br><i>Xanthomonas campestris</i> pv. <i>dieffenbachiae</i> (Pammel) Dowson | Ag,An,C,<br>D,E,P,<br>Sy<br>Ag,D,E,<br>P,Sy<br>Ag,An,D,<br>M,P,Sy<br>Ag,An,C,<br>D,P,Sy |
| Black cane rot (Ceratocystis) | <i>Ceratocystis fimbriata</i> Ellis & Halst.   | Sy  |

(continued)

**Foliage Plants (continued)**

| Common name                        | Pathogens or cause   | Suscepts         |
|------------------------------------|--|------------------|
|                                    | blight)  |                  |
| Brown leaf spot                    | <i>Leptosphaeria</i> spp.  | D                |
| Burrowing nematode                 | <i>Radopholus similis</i> (Cobb) Thorne  | An,P,Sy          |
| Cephalosporium leaf spot           | <i>Acremonium crotogineum</i> (Schol-Schwarz) W. Gams (= <i>Cephalosporium cinnamomeum</i> Linn) | D,Sy             |
| Colletotrichum spadix blight       | <i>Colletotrichum gloeosporioides</i> (Penz.) Penz. & Sacc. in Penz.                             | An               |
| Cylindrocladium petiole & root rot | <i>Cylindrocladium spathiphylli</i> Schoul. El-Gholl & Alfieri                                   | Sp               |
| Dactylaria leaf spot               | <i>Dactylaria humicola</i> Bhatt. & Kendrick   | P                |
| Foliar nematode                    | <i>Aphelenchoides</i> spp.   | An               |
| Fusarium corm rot                  | <i>Fusarium solani</i> (H. Mart.) Sacc. (teleomorph: <i>Nectria haematococca</i> Berk. & Broome) | C                |
| Fusarium stem rot                  | <i>Fusarium solani</i> (H. Mart.) Sacc.  | Ag,D             |
| Gray mold                          | <i>Botrytis cinerea</i> Pers.: Fr.   | P                |
| Myrothecium leaf spot              | <i>Myrothecium roridum</i> Tode: Fr.   | Ag,D,P,<br>Sp,Sy |
| Phytophthora leaf spot             | <i>Phytophthora</i> spp.   | D,P,Sp           |
| Pythium root rot                   | <i>Pythium</i> spp.  | All              |
| Red-edge                           | <i>Xanthomonas campestris</i> pv. <i>dieffenbachiae</i> (Pammel) Dowson                          | Ps               |
| Rhizoctonia aerial blight          | <i>Rhizoctonia solani</i> Kühn (teleomorph: <i>Thanatephorus cucumeris</i> (A. B. Frank) Donk)   | All              |
| Root knot                          | <i>Meloidogyne</i> spp.  | C,E,P            |
| Root lesion                        | <i>Pratylenchus</i> spp.   | C,D              |
| Soft rot                           | <i>Erwinia carotovora</i> subsp. <i>carotovora</i> (Jones) Bergey et al.                         | All              |
| Southern blight                    | <i>Sclerotium rolfsii</i> Sacc. (teleomorph: <i>Athelia rolfsii</i> (Curzi) Tu & Kimbrough)      | All              |

ARALIACEAE (*Brassaia actinophylla* Endl., B [umbrella tree]; *Dizygotheca* spp., D [false Aralia]; *Fatsihedera lizei* (Cochet) Guillaum, F; *Fatsia japonica* (Thunb.) Decne. & Planch., Fj; *Hedera helix* L., H [English ivy]; *Polyscias* spp., P [Aralia]; *Schefflera arboricola* Hayata ex Kanehira, S [dwarf schefflera])

|  |   |   |
|--|---|---|
| Alternaria leaf spot                   | <i>Alternaria panax</i> Whetzel in Whetzel & Rosenb.  | B,D,Fl,<br>P,S                              |
| Anthraxnose                            | <i>Colletotrichum trichellum</i> (Fr.: Fr.) Duke  | H   |
| Bacterial leaf spots                   | <i>Erwinia chrysanthemi</i> Burkholder, McFadden & Dimock<br><i>Pseudomonas cichorii</i> (Swingle) Stapp<br><i>Xanthomonas campestris</i> pv. <i>hederiae</i> (Pammel) Dowson | B,S<br>B,Fl,Fj,<br>P,S<br>B,Fl,Fj,<br>H,P,S |
| Cercospora leaf spot                   | <i>Cercospora</i> spp.  | B,S   |
| Damping-off                            | <i>Pythium</i> spp.   | B,Fj,S                                      |
| Gray mold                              | <i>Botrytis cinerea</i> Pers.: Fr.  | H   |
| Phyllosticta leaf spot                 | <i>Phyllosticta concentrica</i> Sacc.   | H   |
| Phytophthora leaf spot                 | <i>Phytophthora palmivora</i> (E. J. Butler) E. J. Butler<br><i>P. parasitica</i> Dastur  | H<br>B                                      |
| Phytophthora root rot                  | <i>Phytophthora</i> spp.  | H   |
| Pythium root rot                       | <i>Pythium</i> spp.   | B   |
| Rhizoctonia aerial blight and stem rot | <i>Rhizoctonia solani</i> Kühn (teleomorph: <i>Thanatephorus cucumeris</i> (A. B. Frank) Donk)  | All   |
| Root knot                              | <i>Meloidogyne</i> spp.   | B   |
| Southern blight                        | <i>Sclerotium rolfsii</i> Sacc. (teleomorph: <i>Athelia rolfsii</i> (Curzi) Tu & Kimbrough)   | All   |

(continued)

**Foliage Plants (continued)**

| Common name   | Pathogens or cause  | Suscepts   |
|---|---|------------|
| <b>ARAUCARIACEAE</b> ( <i>Araucaria heterophylla</i> (Salisb) Franco, A [Norfolk Island Pine])  |   |            |
| Bleeding canker   | <i>Dothiorella</i> spp.<br><i>Lasiodiplodia theobromae</i> (Pat.)<br>Griffon & Maubl. = <i>Botryodiplodia theobromae</i> Pat.                                   | A<br>A     |
| Cylindrocladium root rot  | <i>Cylindrocladium</i> spp.   | A          |
| Needle blight   | <i>Colletotrichum derridis</i> van Hook   | A          |
| Pythium root rot  | <i>Pythium</i> spp.   | A          |
| <b>ASCLEPIADACEAE</b> ( <i>Hoya carnosa</i> (L. F.) R. Br., H [wax plant])  |   |            |
| Cercospora leaf spot  | <i>Cercospora</i> spp.  | H          |
| Gray mold   | <i>Botrytis cinerea</i> Pers.: Fr.  | H          |
| Rhizoctonia aerial blight   | <i>Rhizoctonia solani</i> Kühn (teleomorph: <i>Thanatephorus cucumeris</i> (A. B. Frank) Donk)  | H          |
| <b>BROMELIACEAE</b> ( <i>Aechmea fasciata</i> (Lindl.) Bak., A [urn plant]; <i>Cryptanthus</i> , C [bromeliad])   |   |            |
| Anthracnose   | <i>Colletotrichum</i> spp.  | C          |
| Bacterial leaf spot   | <i>Erwinia carotovora</i> subsp. <i>carotovora</i> (Jones) Bergey et al.  | A          |
| Helminthosporium leaf spot  | <i>Setosphaeria rostrata</i> K. J. Leonard (anamorph: <i>Exserohilum rostratum</i> (Drechs.) K. J. Leonard & Suggs) = <i>Helminthosporium rostratum</i> Drechs. | A          |
| <b>CACTACEAE</b> ( <i>Cereus</i> spp., C; <i>Rhipsalidopsis gaertneri</i> (Regel) Moron, R [Easter cactus]; <i>Schlumbergera truncata</i> (Haw.) Moran [Thanksgiving cactus] and <i>S. bridgesii</i> (Lem.) Lofgr. [Christmas cactus], S; and many others)  |   |            |
| Cactus cyst nematode  | <i>Cactodera cacti</i> (= <i>Heterodera cacti</i> )   | Many cacti |
| Cactus virus X  | Cactus virus X  | Many cacti |
| Colletotrichum stem rot   | <i>Colletotrichum gloeosporioides</i> (Penz.) Penz. & Sacc. in Penz.  | Many cacti |
| Fusarium stem rot   | <i>Fusarium oxysporum</i> Schlechtend.  | R,S        |
| Helminthosporium stem rot, shattering   | <i>Drechslera cactivora</i> (Petr.) M. B. Ellis (= <i>Helminthosporium cactivorum</i> Petr.)  | C,R,S      |
| Soft rot  | <i>Erwinia carotovora</i> subsp. <i>carotovora</i> (Jones) Bergey et al.  | C,R,S      |
| <b>COMMELINACEAE</b> ( <i>Rhoeo spathacea</i> (Swartz) Stearn, R [oyster plant]; <i>Siderasis fuscata</i> (Lodd.) H. E. Moore, S; <i>Tradescantia</i> spp., T [Spiderworts (wandering jew and others)]; <i>Zebrina pendula</i> Schnizl., Z [wandering jew]) |   |            |
| Pythium root rot  | <i>Pythium</i> spp.   | R          |
| Root knot (also called leaf gall)   | <i>Meloidogyne incognita</i> (Kofoid & White) Chitwood  | S          |
| Tan leaf spot   | <i>Curvularia eragrostidis</i> (Henn.) J. A. Meyer  | R          |
| Tobacco mosaic  | Tobacco mosaic virus  | R          |
| Tomato mosaic   | Tomato mosaic virus   | R,T        |
| Tradescantia mosaic   | Tradescantia mosaic virus   | T,Z        |
| <b>EUPHORBACEAE</b> ( <i>Codiaeum variegatum</i> (L.) Blume, C [croton])  |   |            |
| Anthracnose   | <i>Glomerella cingulata</i> (Stoneman) Spauld & Schrenk   | C          |
| Bacterial leaf spot   | <i>Xanthomonas campestris</i> (Pammel) Dowson   | C          |
| Crown gall  | <i>Agrobacterium tumefaciens</i> (Smith & Townsend) Conn  | C          |
| Root lesion   | <i>Pratylenchus coffea</i> (Zimmerman) Filipjev & Schuurmans-Stekhoven  | C          |
| Stem gall   | <i>Nectriella pironii</i> Alfieri & Samuels   | C          |

(continued)

**Foliage Plants (continued)**

| Common name  | Pathogens or cause  | Suscepts       |
|--|---|----------------|
| and canker   | (anamorph: <i>Kutillakesa pironii</i> Alfieri)  |                |
| <b>GENTIANACEAE</b> ( <i>Exacum affine</i> Balf., E [Arabian violet])  |   |                |
| Botrytis blight  | <i>Botrytis cinerea</i> Pers: Fr. (teleomorph: <i>Botryotinia fuckeliana</i> (de Bary) Whetzel)                               | E              |
| Stem rot and wilt  | <i>Fusarium solani</i> (H. Mart.) Sacc. (teleomorph: <i>Nectria haematococca</i> Berk. & Broome)                              | E              |
| <b>GESNERIACEAE</b> ( <i>Aeschynanthus pulcher</i> (Blume) G. Don., A [lipstick vine]; <i>Saintpaulia ionantha</i> H. Wendl., Sa [African violet]; <i>Sinningia</i> spp., Si [gloxinia]) |   |                |
| Bacterial leaf spot  | <i>Pseudomonas</i> spp.   | Si             |
| Corynespora leaf spot  | <i>Corynespora cassiicola</i> (Berk. & M. A. Curtis) Wei  | A,Sa           |
| Dahlia ring spot   | Dahlia ring spot virus  | Si             |
| Erwinia blight   | <i>Erwinia chrysanthemi</i> Burkholder, McFadden & Dimock   | Sa             |
| Foliar nematode  | <i>Aphelenchoides</i> spp.  | Sa,Si          |
| Gray mold  | <i>Botrytis cinerea</i> Pers.: Fr. (teleomorph: <i>Botryotinia fuckeliana</i> (de Bary) Whetzel)                              | A,Sa,Si        |
| Myrothecium leaf spot  | <i>Myrothecium roridum</i> Tode: Fr.  | A,Si           |
| Phytophthora stem rot  | <i>Phytophthora parasitica</i> Dastur   | A,Sa,Si        |
| Powdery mildew   | <i>Oidium</i> spp.  | Sa             |
| Tobacco mosaic   | Tobacco mosaic virus  | Si             |
| Tomato ring spot   | Tomato ring spot virus  | Si             |
| Tomato spotted wilt  | Tomato spotted wilt virus   | Si             |
| <b>MARANTACEAE</b> ( <i>Calathea</i> spp., C; <i>Maranta leuconeura</i> E. Morr., M [prayer plant])  |   |                |
| Alternaria leaf spot   | <i>Alternaria alternata</i> (Fr.: Fr.) Keissl.  | C              |
| Burrowing nematode   | <i>Radopholus similis</i> (Cobb) Thorne   | C,M            |
| Cucumber mosaic  | Cucumber mosaic virus   | C,M            |
| Fusarium root rot  | <i>Fusarium oxysporum</i> Schlechtend.  | C              |
| Helminthosporium leaf spot   | <i>Bipolaris setariae</i> (Sawada) Shoemaker (teleomorph: <i>Cochliobolus setariae</i> (Ito & Kuribayashi) Drechs. ex Dastur) | C,M            |
| Root knot  | <i>Meloidogyne javanica</i> (Treub) Chitwood  | M              |
| <b>MORACEAE</b> ( <i>Ficus benjamina</i> L., Fb [weeping fig]; <i>F. elastica</i> Roxb. ex Hornem, Fe [rubber tree]; <i>F. lyrata</i> , Fl [fiddle-leaf fig])                            |   |                |
| Anthracnose  | <i>Colletotrichum gloeosporioides</i> (Penz.) Penz. & Sacc. in Penz.  | Fe,Fl          |
| Bacterial leaf spot  | <i>Pseudomonas cichorii</i> (Swingle) Stapp<br><i>Xanthomonas campestris</i> (Pammel) Dowson                                  | Fl<br>Fb,Fe,Fl |
| Cercospora leaf spot   | <i>Cercospora</i> spp.  | Fe             |
| Corynespora leaf spot  | <i>Corynespora cassiicola</i> (Berk. & M. A. Curtis) Wei  | Fb             |
| Crown gall   | <i>Agrobacterium tumefaciens</i> (Smith & Townsend) Conn  | Fb,Fe          |
| Foliar nematode  | <i>Aphelenchoides besseyi</i> Christie  | Fe             |
| Gray mold  | <i>Botrytis cinerea</i> Pers.: Fr. (teleomorph: <i>Botryotinia fuckeliana</i> (de Bary) Whetzel)                              | Fe,Fl          |
| Phomopsis dieback  | <i>Diplodia</i> spp.<br><i>Phomopsis</i> spp.   | Fb<br>Fb       |
| Root lesion  | <i>Pratylenchus</i> spp.  | Fb,Fe          |
| Southern blight  | <i>Sclerotium rolfsii</i> Sacc. (teleomorph: )  | Fb,Fe,Fl       |

(continued)

**Foliage Plants (continued)**

| Common name  | Pathogens or cause  | Suscepts     |
|--|---|--------------|
| Verticillium wilt  | <i>Athelia rolfsii</i> (Curzi) Tu & Kimbrough   | Fb           |
|  | <i>Verticillium albo-atrum</i> Reinke & Berthier  |              |
| PALMAE ( <i>Caryota mitis</i> Lear., C [fishtail palm]; <i>Chamaedorea</i> spp., Ch [parlor palm, Florida hybrid palm]; <i>Chrysalidocarpus lutescens</i> H. Wendl., Ca [Areca palm]; <i>Gronophyllum ramsayi</i> (Becc.) H. E. Moore, G [Kentia palm]; <i>Rhapis excelsa</i> (Thunb.) A. Henry, R [lady finger palm]) |   |              |
| Bacterial leaf blight  | <i>Pseudomonas avenea</i> Manns   | C            |
| Burrowing nematode   | <i>Radopholus similis</i> (Cobb) Thorne   | Ch           |
| Cercospora leaf spot   | <i>Cercospora rhapsicola</i> Tominaga   | R            |
| Damping-off  | <i>Fusarium</i> spp.  | C,Ca,Ch, G,R |
|  | <i>Pythium</i> spp.   | C,Ca,Ch, G,R |
| Gliocladium stem rot   | <i>Gliocladium vermosceni</i> (Biourge) Thom  | Ca,Ch        |
| Helminthosporium leaf spot   | <i>Bipolaris setariae</i> (Sawada) Shoemaker (teleomorph: <i>Cochliobolus setariae</i> (Ito & Kuribayashi) Drechs. ex Dastur) | C,Ca,Ch, G,R |
|  | <i>Exserohilum rostratum</i> (Drechs.) K. J. Leonard & Suggs  | C,Ca,Ch, G,R |
|  | <i>Phaeotrichoconis crotalariae</i> (Salam & Rao) Sabram.   | Ca           |
| Lethal yellows   | Mycoplasmalike organism   | C            |
| Phytophthora stem rot and blight   | <i>Phytophthora</i> spp.  | Ch           |
| Root lesion  | <i>Pratylenchus</i> spp.  | Ch           |

PIPERACEAE (*Peperomia* spp.), P [radiator plant, baby rubber tree, emerald ripple peperomia and others])

|                                |  |   |
|--------------------------------|--|---|
| Anthraco-nose                  | <i>Colletotrichum</i> spp.   | P |
| Cercospora leaf spot           | <i>Cercospora</i> spp.   | P |
| Cucumber mosaic                | Cucumber mosaic virus  | P |
| Myrothecium leaf spot          | <i>Myrothecium roridum</i> Tode: Fr  | P |
| Phyllosticta leaf spot         | <i>Phyllosticta</i> spp.   | P |
| Phytophthora stem and root rot | <i>Phytophthora parasitica</i> Dastur  | P |
| Pythium root rot               | <i>Pythium splendens</i> Braun   | P |
| Rhizoctonia leaf spot          | <i>Rhizoctonia solani</i> Kühn (teleomorph: <i>Thanatephorus cucumeris</i> (A. B. Frank) Donk) | P |
| Ring spot                      | Unidentified virus   | P |
| Southern blight                | <i>Sclerotium rolfsii</i> Sacc. (teleomorph: <i>Athelia rolfsii</i> (Curzi) Tu & Kimbrough)    | P |
| Verticillium wilt              | <i>Verticillium albo-atrum</i> Reinke & Berthier   | P |

POLYPODIACEAE (*Asplenium nidus* L., A [bird's nest fern]; *Davallia* spp., D [rabbit foot fern, etc.]; *Nephrolepis exaltata* (L.) Schott, N [Boston fern]; *Platynerium* spp., Pl [staghorn fern]; *Pteris* spp., Pt [table fern])

|                  |   |                   |
|------------------|---|-------------------|
| Bacterial blight | <i>Pseudomonas cichorii</i> (Swingle) Stapp<br><i>P. asplenii</i> (Ark & Tompkins) Savulescu<br><i>P. gladioli</i> Severini | A,PI<br>A,D,PI,Pt |
| Foliar nematode  | <i>Aphelenchoides fragariae</i> (Ritsem-Bos) Christie   | A.N               |
| Gray mold        | <i>Botrytis cinerea</i> Pers.: Fr. (teleomorph: <i>Botryotinia fuckeliana</i> (de Bary) Whetzel)                            | D,N,Pt            |

(continued)

**Foliage Plants (continued)**

| Common name   | Pathogens or cause   | Suscepts   |
|---|--|------------|
| Rhizoctonia aerial blight   | <i>Rhizoctonia solani</i> Kühn (teleomorph: <i>Thanatephorus cucumeris</i> (A. B. Frank) Donk)   | D,N,PI, Pt |
| Root lesion   | <i>Pratylenchus</i> spp.   | N          |
| URTICACEAE ( <i>Pellionia</i> spp., Pe; <i>Pilea</i> spp., Pi [aluminum plant and others])  |  |            |
| Anthraco-nose   | <i>Colletotrichum capsici</i> (Syd.) E. J. Butler & Bisby  | Pi         |
| Bacterial leaf spot   | <i>Xanthomonas campestris</i> (Pammel) Dowson  | Pe,PI      |
| Myrothecium leaf spot   | <i>Myrothecium roridum</i> Tode: Fr.   | Pe,PI      |
| Phytophthora blight   | <i>Phytophthora parasitica</i> Dastur  | Pi         |
| Southern blight   | <i>Sclerotium rolfsii</i> Sacc. (teleomorph: <i>Athelia rolfsii</i> (Curzi) Tu & Kimbrough)      | Pe,PI      |
| VITACEAE ( <i>Cissis striata</i> Ruiz & Pav. and <i>C. rhombifolia</i> Vahl, Cr [grape ivy]; <i>C. antartica</i> Venten., Ca [kangaroo vine]) |  |            |
| Anthraco-nose   | <i>Colletotrichum</i> spp. (teleomorph: <i>Glomerella cingulata</i> (Stoneman) Spauld. & Shrenk) | Ca,Cr      |
| Downy mildew  | <i>Plasmopara</i> spp.   | Ca,Cr      |
| Gray mold   | <i>Botrytis cinerea</i> Pers.: Fr. (teleomorph: <i>Botryotinia fuckeliana</i> (de Bary) Whetzel) | Ca,Cr      |
| Powdery mildew  | <i>Oidium</i> spp.   | Cr         |
| Rhizoctonia aerial blight   | <i>Rhizoctonia solani</i> Kühn (teleomorph: <i>Thanatephorus cucumeris</i> (A. B. Frank) Donk)   | Ca,Cr      |

**Pea (*Pisum sativum* L.)**

**D. J. Hagedorn, Primary Collator**

| Common name                 | Pathogen or cause   |
|-----------------------------|---|
| Alternaria blight           | <i>Alternaria alternata</i> (Fr.: Fr.) Keissl.  |
| Anthraco-nose               | <i>Colletotrichum gloeosporioides</i> (Penz.) Penz. & Sacc. in Penz. = <i>C. pisi</i> Pat.          |
| Aphanomyces root rot        | <i>Aphanomyces euteiches</i> Drechs. f. sp. <i>pisi</i>   |
| Ascochyta blight            | <i>Didymella pinodes</i> (Berk. & A. Bloxam) Petr. (anamorph: <i>Ascochyta pinodes</i> L. K. Jones) |
| Ascochyta foot rot          | <i>Phoma medicaginis</i> Malbr. & Roum. var. <i>pinodella</i> (Jones) Boerema                       |
| Ascochyta leaf and pod spot | <i>Ascochyta pisi</i> Lib.  |
| Bacterial blight            | <i>Pseudomonas syringae</i> pv. <i>pisi</i> (Sackett) Young, Dye & Wilkie                           |
| Black leaf                  | <i>Fusicladium pisicola</i> Linford   |
| Brown spot                  | <i>Pseudomonas syringae</i> pv. <i>syringae</i> van Hall  |
| Cercospora leaf spot        | <i>Cercospora pisa-sativae</i> Stevenson  |
| Cladosporium blight         | <i>Cladosporium cladosporioides</i> (Fresen.) de Vries f. sp. <i>pisicola</i> = <i>C. pisicola</i>  |
| Cyst nematode               | <i>Heterodera</i> spp.  |
| Damping-off                 | <i>Pythium</i> spp.   |
| Downy mildew                | <i>Peronospora viciae</i> (Berk.) de Bary   |
| Freezing injury             | Freezing temperatures   |
| Fusarium root rot           | <i>Fusarium solani</i> (Mart.) Sacc. f. sp. <i>pisi</i>   |
| Gray mold                   | <i>Botrytis cinerea</i> Pers.: Fr.  |
| Marsh spot                  | Manganese deficiency  |
| Near-wilt                   | <i>Fusarium oxysporum</i> Schlechtend.  |

(continued)

## Pea (continued)

| Common name              | Pathogen or cause  |
|--------------------------|--|
|                          | f. sp. <i>pisi</i> race 2  |
| Pea enation mosaic       | Pea enation mosaic virus   |
| Pea leaf roll            | Pea (bean) leaf roll virus   |
| Pea mosaic               | Bean yellow mosaic virus (BV2)<br>Pea mild mosaic virus  |
| Pea seedborne mosaic     | Pea seedborne mosaic virus   |
| Pea streak               | Alfalfa mosaic virus<br>Western pea streak virus<br>Wisconsin pea streak virus                                   |
| Pea stunt                | Red clover vein mosaic virus   |
| Powery mildew            | <i>Erysiphe pisi</i> DC. (anamorph: <i>Oidium</i> sp.)   |
| Purple blight            | Manganese toxicity   |
| Pythium root rot         | <i>Pythium</i> spp.  |
| Rhizoctonia seedling rot | <i>Thanatephorus cucumeris</i> (A. B. Frank) Donk (anamorph: <i>Rhizoctonia solani</i> Kühn)                     |
| Root knot                | <i>Meloidogyne</i> spp.  |
| Root lesion              | <i>Pratylenchus</i> spp.   |
| Sclerotinia rot          | <i>Sclerotinia sclerotiorum</i> (Lib.) de Bary   |
| Septoria blotch          | <i>Septoria pisi</i> Westend.  |
| Thielaviopsis root rot   | <i>Thielaviopsis basicola</i> (Berk. & Broome) Ferraris (synanamorph: <i>Chalara elegans</i> Nag Raj & Kendrick) |
| Water congestion         | High soil moisture, warm temperatures  |
| Wilt (races 1, 5, and 6) | <i>Fusarium oxysporum</i> Schlechtend. f. sp. <i>pisi</i> races 1, 5, and 6                                      |

Peanut (*Arachis hypogaea* L.)

D. Morris Porter, Primary Collator

| Common name                             | Pathogen or cause   |
|---|---|
| Alternaria leaf blight                  | <i>Alternaria tenuissima</i> (Kunze: Fr.) Wiltshire   |
| Alternaria leaf spot                    | <i>Alternaria arachidis</i> Kulk.   |
| Alternaria spot and veinal necrosis     | <i>Alternaria alternata</i> (Fr.: Fr.) Keissl.  |
| Anthraxnose                             | <i>Colletotrichum arachidis</i> Sawada (not validly published)<br><i>C. dematium</i> (Pers.: Fr.) Grove<br><i>C. mangenoti</i> Chevaugeon         |
| Aspergillus crown rot                   | <i>Aspergillus niger</i> Van Tiegh.   |
| Bacterial wilt                          | <i>Pseudomonas solanacearum</i> (Smith) Smith   |
| Blackhull                               | <i>Thielaviopsis basicola</i> (Berk. & Broome) Ferraris (synanamorph: <i>Chalara elegans</i> Nag Raj & Kendrick)                                  |
| Botrytis blight                         | <i>Botrytis cinerea</i> Pers.: Fr. (teleomorph: <i>Botryotinia fuckeliana</i> (de Bary) Whetzel)  |
| Charcoal rot and Macrophomina leaf spot | <i>Macrophomina phaseolina</i> (Tassi) Goidanich (= <i>Rhizoctonia bataticola</i> (Taubenhaus) E. J. Butler)                                      |
| Choanephora leaf spot                   | <i>Choanephora</i> spp.   |
| Collar rot                              | <i>Lasioidiplodia theobromae</i> (Pat.) Griffon & Maubl. = <i>Diplodia gossypina</i> Cooke  |
| Colletotrichum leaf spot                | <i>Colletotrichum gloeosporioides</i> (Penz.) Penz. & Sacc. in Penz. (teleomorph: <i>Glomerella cingulata</i> (Stoneman) Spauld. & Schrenk)       |
| Cowpea mild mottle                      | Ex <sup>a</sup> cowpea mild mottle virus  |
| Cylindrocladium black rot               | <i>Cylindrocladium crotalariae</i> (C. A. Loos) D. K. Bell & Sobers (teleomorph: <i>Calonectria crotalariae</i> (C. A. Loos) D. K. Bell & Sobers) |
| Cylindrocladium leaf spot               | <i>Cylindrocladium scoparium</i> Morg. (teleomorph: <i>Calonectria keyotensis</i> )   |

(continued)

## Peanut (continued)

| Common name                      | Pathogen or cause  |
|----------------------------------|--|
|                                  | Terishita)   |
| Dagger nematode                  | <i>Xiphinema</i> spp.  |
| Damping-off, Aspergillus         | <i>Aspergillus flavus</i> Link.: Fr.<br><i>A. niger</i> Van Tiegh.   |
| Damping-off, Fusarium            | <i>Fusarium</i> spp.   |
| Damping-off, Pythium             | <i>Pythium</i> spp.  |
| Damping-off, Rhizoctonia         | <i>Rhizoctonia</i> spp.  |
| Damping-off, Rhizopus            | <i>Rhizopus</i> spp.   |
| Dodder                           | <i>Cuscuta campestris</i> Yunck.   |
| Drechslera leaf spot             | <i>Bipolaris spicifera</i> (Bainier) Subramanian = <i>Drechslera spicifera</i> (Bainier) Arx (teleomorph: <i>Cochliobolus spicifer</i> R. R. Nelson)   |
| Fusarium peg and root rot        | <i>Fusarium</i> spp.   |
| Fusarium wilt                    | <i>Fusarium oxysporum</i> Schlechtend.: Fr.  |
| Groundnut crinkle                | Ex groundnut crinkle virus   |
| Groundnut eyespot                | Ex groundnut eyespot virus   |
| Groundnut rosette                | Ex groundnut chlorotic rosette virus<br>Ex groundnut green rosette virus   |
| Groundnut streak                 | Ex groundnut streak virus  |
| Leaf spot, early                 | <i>Cercospora arachidicola</i> Hori (teleomorph: <i>Mycosphaerella arachidis</i> Deighton)   |
| Leaf spot, late                  | <i>Cercosporidium personatum</i> (Berk. & M. A. Curtis) Deighton (teleomorph: <i>Mycosphaerella berkeleyi</i> Jenk.)   |
| Marginal chlorosis               | Ex unknown (viruslike)   |
| Melanosis                        | <i>Stemphylium botryosum</i> Wallroth (teleomorph: <i>Pleospora tarda</i> E. Simmons)  |
| Myrothecium leaf blight          | <i>Myrothecium roridum</i> Tode: Fr.   |
| Olpidium root rot                | <i>Olpidium brassicae</i> (Woronin) P. A. Dang.  |
| Peanut clump                     | Ex peanut clump virus  |
| Peanut green mosaic              | Ex peanut green mosaic virus   |
| Peanut mottle                    | Peanut mottle virus  |
| Peanut ring spot or bud necrosis | Tomato spotted wilt virus  |
| Peanut stripe                    | Peanut stripe virus  |
| Peanut stunt                     | Peanut stunt virus   |
| Peanut yellow mottle             | Ex peanut yellow mottle virus  |
| Pepper spot and scorch           | <i>Leptosphaerulina crassiasca</i> (Sechet) C. R. Jackson & D. K. Bell   |
| Pestalotiopsis leaf spot         | <i>Pestalotiopsis arachidis</i> Satya  |
| Phanerogamic root parasite       | <i>Alectna</i> sp. (family: Scrophulariaceae)  |
| Phoma leaf blight                | <i>Phoma microspora</i> Benk. & M. A. Curtis Nom. Nud. non Sacc. non Pat.  |
| Phomopsis foliar blight          | <i>Phomopsis sojae</i> Lehman (not validly published)  |
| Phomopsis leaf spot              | <i>Phomopsis</i> spp.  |
| Phyllosticta leaf spot           | <i>Phyllosticta arachidis-hypogaea</i> Rao<br><i>P. sojicola</i> C. Massal.  |
| Phymatotrichum root rot          | <i>Phymatotrichopsis omnivora</i> (Duggar) Hennebert = <i>Phymatotrichum omnivorum</i> Duggar  |
| Pod lesion nematode              | <i>Tylenchorhynchus brevilineatus</i> Williams   |
| Pod rot (pod breakdown)          | <i>Fusarium roseum</i> Link.: Fr.<br><i>F. solani</i> (H. Mart.) Sacc. (teleomorph: <i>Nectria haematococca</i> Berk. & Broome)<br><i>Pythium myriotylum</i> Drechs.<br><i>Rhizoctonia solani</i> Kühn (teleomorph: <i>Thanatephorus cucumeris</i> (Frank) Donk) |
| Powdery mildew                   | <i>Oidium arachidis</i> Chorin   |
| Pythium peg                      | <i>Pythium aphanidermatum</i> (Edson) Fitzp.   |

(continued)

**Peanut (continued)**

| Common name                                 | Pathogen or cause  |
|---|--|
| and root rot                                | <i>P. debaryanum</i> Auct. non Hesse<br><i>P. irregulare</i> Buisman<br><i>P. myriotyllum</i> Drechs.<br><i>P. ultimum</i> Trow  |
| Pythium wilt                                | <i>Pythium myriotyllum</i> Drechs.   |
| Rhizoctonia foliar blight, peg and root rot | <i>Rhizoctonia solani</i> Kühn   |
| Ring nematode                               | <i>Criconebella ornata</i> (Raski) Raski & Luc (= <i>Macroposthonia ornata</i> (Raski) DeGrisse & Loof)  |
| Root knot, Javanese                         | <i>Meloidogyne javanica</i> (Treb) Chitwood  |
| Root knot, northern                         | <i>Meloidogyne hapla</i> Chitwood  |
| Root knot, peanut                           | <i>Meloidogyne arenaria</i> (Neal) Chitwood  |
| Root lesion, coffee                         | <i>Pratylenchus coffeae</i> (Zimmernann) Schuurmans-Stekhoven  |
| Root lesion, Godfrey's                      | <i>Pratylenchus brachyurus</i> (Godfrey) Filipjev & Schuurmans-Stekhoven   |
| Rugose leaf curl                            | Rickettsialike organism  |
| Rust  | <i>Puccinia arachidis</i> Speg. var. <i>arachidis</i>  |
| Scab  | <i>Sphaceloma arachidis</i> Bitancourt & Jenk.   |
| Sclerotinia blight                          | <i>Sclerotinia minor</i> Jagger<br><i>S. sclerotiorum</i> (Lib.) de Bary   |
| Spiral nematode                             | <i>Scutellonema cavenessi</i> Sher   |
| Stem rot (southern blight)                  | <i>Sclerotium rolfsii</i> Sacc. (teleomorph: <i>Athelia rolfsii</i> (Curzi) Tu & Kimbrough)  |
| Sting nematode                              | <i>Belonolaimus glaucilis</i> Steiner<br><i>B. longicaudatus</i> Rau   |
| Testa nematode                              | <i>Aphelenchoides arachidis</i> Bos  |
| Verticillium wilt                           | <i>Verticillium albo-atrum</i> Reinke & Berthier<br><i>Verticillium dahliae</i> Kleb.  |
| Web blotch                                  | <i>Ascochyta adzamehica</i><br>Schoschiaschwili = <i>Phoma arachidicola</i> W. F. O. Marasas et al. (teleomorph: <i>Didymosphaeria arachidicola</i> (Chochrjakov) Alcorn et al.) |
| Witches' broom                              | Mycoplasmalike organism  |
| Yellow mold                                 | <i>Aspergillus flavus</i> Link: Fr.<br><i>A. parasiticus</i> Speare  |
| Zonate leaf spot                            | <i>Cristulariella moricola</i> (Hino)<br>Redhead (synanamorph: <i>Sclerotium cinnamomi</i> Sawada) (teleomorph: <i>Grovesinia pyramidalis</i> M. Cline et al.)                   |

<sup>a</sup> Ex = Exotic, which is the classification given by APHIS of the U.S. Department of Agriculture for those diseases/organisms that are not known to occur in the United States.

**Pecan (*Carya illinoensis* (Wang.) Koch.)**

**T. R. Gottwald, Primary Collator**

| Common name                        | Pathogen or cause  |
|------------------------------------|--|
| Algal leaf spot and twig infection | <i>Cephaleuros virescens</i> Kunze<br>= <i>C. mycoidea</i> Karst.  |
| Brown leaf spot                    | <i>Sirosporium diffusum</i> (Heald & Wolf) Deighton in M. B. Ellis<br>= <i>Cercospora fusca</i> Rands  |
| Bunch disease                      | Mycoplasmalike organism  |
| Clitocybe root rot                 | <i>Armillaria tabescens</i> (Scop.: Fr.) Dennis et al. (= <i>Clitocybe tabescens</i> (Scop.: Fr.) Bres. = <i>C. parasitica</i> E. M. Wilcox) |
| Crown gall                         | <i>Agrobacterium tumefaciens</i> (Smith & Townsend) Conn   |
| Downy spot                         | <i>Mycosphaerella caryigena</i> Demaree & Cole (anamorph: <i>Pseudocercospora caryigena</i> (Ellis & Everh.) Sivanesan                       |

(continued)

**Pecan (continued)**

| Common name             | Pathogen or cause  |
|-------------------------|--|
|                         | = <i>Cercospora caryigena</i> (Ellis & Everh.) Hoehn.  |
| Eastern leafy mistletoe | <i>Phoradendron serotinum</i> (Raf.) M. C. Johnst. = <i>P. flavescens</i> (Pursh) Nutt.  |
| Eutypa dieback          | <i>Eutypa heteracantha</i> Sacc.   |
| Fungal leaf scorch      | Unknown etiology   |
| Gnomonia leaf spot      | <i>Gnomonia dispersa</i> Demaree & Cole ex Barr  |
| Heart rot               | <i>Schizophyllum commune</i> Fr.   |
| Leaf blotch             | <i>Mycosphaerella dendroides</i> (Cooke) Demaree & Cole (anamorph: <i>Cercospora halstedii</i> Ellis & Everh.)   |
| Little leaf             | Unknown cause  |
| Liver spot              | <i>Gnomonia nerviseda</i> Cole = <i>G. caryaea</i> Wolf var. <i>pecanae</i> Cole (anamorph: <i>Leptothyrium nerviseda</i> Cole)  |
| Mouse ear               | Unknown cause  |
| Nursery blight          | <i>Elsinoë randii</i> Jenkins & Bitancourt (anamorph: <i>Sphaceloma randii</i> Jenk. & Bitancourt)   |
| Phymatotrichum root rot | <i>Phymatotrichopsis omnivora</i> (Duggar) (cotton root rot) Hennebert = <i>Phymatotrichum omnivorum</i> Duggar  |
| Physalospora canker     | <i>Botryosphaeria rhodina</i> (Cooke) Arx = <i>Physalospora rhodina</i> Cooke<br><i>Physalospora abdita</i> (Berk. & M. A. Curtis) N. Stevens in Voorhees (= <i>P. fusca</i> N. Stevens) |
| Pink mold               | <i>Trichothecium roseum</i> Lk.: Fr. = <i>Cephalothecium roseum</i> Corda  |
| Powdery mildew          | <i>Microsphaera penicillata</i> (Wallroth: Fr.) Lev. = <i>M. alni</i> (Wallroth) Wint.   |
| Ring nematode           | <i>Criconebella rusium</i> (Khan, Chawla & Saha) Luc & Raski = <i>C. quadricornis</i> (Kirhanova) Raski  |
| Root knot               | <i>Meloidogyne arenaria</i> (Neal) Chitwood<br><i>M. incognita</i> (Kofoid & White) Chitwood<br><i>M. javanica</i> (Treb) Chitwood   |
| Rosette                 | Zn deficiency  |
| Scab                    | <i>Cladosporium caryigenum</i> (Ellis & Lang.) Gottwald  |
| Septoria leaf spot      | <i>Septoria caryaea</i> Ellis & Everh.   |
| Shuck disease           | Unknown cause  |
| Stem-end blight         | Unknown cause  |
| Thread blight           | <i>Pellicularia koleroga</i> Cooke = <i>Corticium koleroga</i> (Cooke) Hoehn.  |
| Twig dieback            | <i>Botryosphaeria dothidea</i> (Moug.: Fr.) Ces. & de Not. (= <i>B. berengeriana</i> de Not.) (anamorph: <i>Dothiorella</i> sp.)   |
| Vein spot               | <i>Gnomonia nerviseda</i> Cole (anamorph: <i>Leptothyrium nervisedum</i> Cole)   |
| Violet root rot         | <i>Helicobasidium brebissonii</i> (Desmaz.) Donk (anamorph: <i>Rhizoctonia crocorum</i> (Pers.: Fr.) DC.)  |
| Zonate leaf spot        | <i>Cristulariella moricola</i> (Hino)<br>Redhead (synanamorph: <i>Sclerotium cinnamomi</i> Sawada) (teleomorph: <i>Grovesinia pyramidalis</i> M. Cline et al.)                           |

**Sugarcane (*Saccharum* spp. hybrids)**

**S. A. Ferreira and J. C. Comstock, Primary Collators**

| Common name              | Pathogen or cause  |
|--------------------------|--|
| Banded sclerotial (leaf) | <i>Thanatephorus cucumeris</i> (A. Frank) Donk disease (= <i>Pellicularia sasakii</i> (Shirai) Ito) (anamorph: <i>Rhizoctonia solani</i> Kühn) |
| Black rot                | <i>Ceratocystis adiposa</i> (E. Butler) C. Moreau  |

(continued)

## Sugarcane (continued)

| Common name  | Pathogen or cause   |
|--|---|
| Black stripe* <sup>a</sup>                             | <i>Cercospora atrofiliiformis</i> Yen et al.  |
| Brown spot   | <i>Cercospora longipes</i> E. Butler  |
| Brown stripe   | <i>Cochliobolus stenospilus</i> Matsumoto & Yamamoto (invalid) (anamorph: <i>Bipolaris stenospila</i> (Drechs.) Shoemaker)  |
| Bud proliferation                                      | Undetermined  |
| Bunch top  | Undetermined  |
| Chlorotic streak                                       | Virus (putative)  |
| Cluster stool  | Undetermined  |
| Cytospora sheath rot                                   | <i>Cytospora sacchari</i> E. Butler   |
| Downy mildew*  | <i>Peronosclerospora sacchari</i> (T. Miyake) Shirai & Hara (= <i>Sclerospora sacchari</i> T. Miyake)   |
| Downy mildew, leaf splitting form*                     | <i>Mycosphaerella striatiformans</i> N. Cobb<br><i>Peronosclerospora miscanthi</i> (T. Miyake) C. G. Shaw (= <i>Sclerospora miscanthi</i> T. Miyake)  |
| Dwarf*   | Sugarcane dwarf virus   |
| Eye spot   | <i>Bipolaris sacchari</i> (E. Butler) Shoemaker (= <i>Helminthosporium sacchari</i> E. Butler)  |
| Fiji disease*  | Sugarcane Fiji disease virus  |
| Fusarium set and stem rot, knife cut, and pokkah boeng | <i>Gibberella fujikori</i> (Sawada) Ito in Ito & Kimura (anamorph: <i>Fusarium moniliforme</i> J. Sheldon)<br><i>Gibberella subglutinans</i> (Edwards) P. Nelson et al. (anamorph: <i>Fusarium subglutinans</i> (Wollenw. & Reinking) P. Nelson et al.) |
| Grassy shoot*  | Mycoplasmalike organism   |
| Gumming disease*                                       | <i>Xanthomonas campestris</i> pv. <i>vasculorum</i> (Cobb) Dye  |
| Iliau  | <i>Clypeosporthe iliou</i> (Lyon) Barr (anamorph: <i>Phaeocystrotronia iliou</i> (Lyon) Sivanesan)  |
| Internal stalk necrosis                                | Undetermined  |
| Leaf blast*  | <i>Didymosphaeria taiwanensis</i> Yen & Chi   |
| Leaf blight*   | <i>Leptosphaeria taiwanensis</i> Yen & Chi  |
| Leaf freckle   | Undetermined  |
| Leaf scald   | <i>Xanthomonas albilineans</i> (Ashby) Dowson   |
| Leaf scorch*   | <i>Stagonospora sacchari</i> Lo & Ling  |
| Leaf stipple   | Undetermined  |
| Marasmius sheath and shoot blight                      | <i>Marasmius stenophyllus</i> Mont.   |
| Mosaic   | Sugarcane mosaic virus  |
| Mottled stripe   | <i>Pseudomonas rubrisubalbicans</i> (Christopher and Edgerton) Krassilnikov   |
| Multiple buds  | Undetermined  |
| Myriogenospora leaf binding                            | <i>Myriogenospora aciculisporea</i> Vizioli   |
| Phyllosticta leaf spot                                 | <i>Phyllosticta hawaiiensis</i> E. Caum   |
| Phytophthora rot of cuttings                           | <i>Phytophthora megasperma</i> Drechs.<br><i>Phytophthora</i> spp.  |
| Pineapple disease                                      | <i>Ceratocystis paradoxa</i> (Dade) C. Moreau (anamorph: <i>Chalara paradoxa</i> (de Seyn.) Sacc. = <i>Thielaviopsis paradoxa</i> (de Seyn.) Hohn.)   |
| Ratoon stunting  | <i>Clavibacter xyli</i> subsp. <i>xyli</i>  |

(continued)

## Sugarcane (continued)

| Common name                           | Pathogen or cause   |
|---------------------------------------|---|
| disease                               | Davis et al.  |
| Red leaf spot (purple spot)           | <i>Dimeriella sacchari</i> (de Haan) Hansf. ex Abbott   |
| Red rot                               | <i>Glomerella tucumanensis</i> (Speg.) Arx & E. Muller = <i>Phyalospora tucumanensis</i> Speg. (anamorph: <i>Colletotrichum falcatum</i> Went)                    |
| Red rot of leaf sheath and sprout rot | <i>Athelia rolfsii</i> (Curzi) Tu & Kimbrough (= <i>Pellicularia rolfsii</i> (Curzi) E. West) (anamorph: <i>Sclerotium rolfsii</i> Sacc.)                         |
| Red spot of leaf sheath               | <i>Mycovellosiella vaginae</i> (Krüger) Deighton (= <i>Cercospora vaginae</i> Krüger)   |
| Red stripe (top rot)                  | <i>Pseudomonas rubrilineans</i> (Lee et al.) Stapp  |
| Rhizoctonia sheath and shoot rot      | <i>Rhizoctonia solani</i> Kühn  |
| Rind disease                          | <i>Phaeocystrotronia sacchari</i> (Ellis & Everh.) Sutton (= <i>Pleocyta sacchari</i> (Masse) Petr. & Syd. = <i>Melanconium sacchari</i> Masse in Speg.)          |
| Ring spot                             | <i>Leptosphaeria sacchari</i> de Haan (anamorph: <i>Phoma</i> sp.)  |
| Root knot                             | <i>Meloidogyne</i> spp.   |
| Root lesion                           | <i>Pratylenchus</i> spp.  |
| Root rots                             | <i>Marasmius sacchari</i> Wakker<br><i>Pythium arrhenomanes</i> Drechs.<br><i>Pythium graminicola</i> Subram.<br><i>Rhizoctonia</i> sp.<br>Unidentified Oomycete* |
| Rust, common                          | <i>Puccinia melanocephala</i> Syd. & P. Syd. (= <i>P. erianthi</i> Padw. & Khan)  |
| Rust, orange*                         | <i>Puccinia kuehnii</i> (Krüger) E. Butler  |
| Schizophyllum rot                     | <i>Schizophyllum commune</i> Fr.: Fr.   |
| Sclerophthora disease                 | <i>Sclerophthora macrospora</i> (Sacc.) Thirum. et al.  |
| Sereh                                 | Virus (putative)  |
| Smut, culmicolous                     | <i>Ustilago scitaminea</i> Syd.   |
| Sooty mold                            | <i>Capnodium</i> spp.<br><i>Fumago sacchari</i> Speg.   |
| Spiral nematode                       | <i>Helicotylenchus</i> spp.<br><i>Rotylenchus</i> spp.<br><i>Scutellonema</i> spp.  |
| Stem galls                            | Undetermined  |
| Streak disease*                       | Maize streak virus, sugarcane strain  |
| Tangle top                            | Mechanical  |
| Target blotch                         | <i>Helminthosporium</i> sp. Priode  |
| Veneer blotch*                        | <i>Deightoniella papuana</i> Shaw   |
| White leaf*                           | Mycoplasmalike organism   |
| White rash*                           | <i>Elsinoë sacchari</i> Lo (anamorph: <i>Spaceloma sacchari</i> Lo)   |
| Wilt                                  | <i>Fusarium sacchari</i> (E. Butler) Gams (= <i>Cephalosporium sacchari</i> E. Butler)  |
| Yellow spot                           | <i>Mycovellosiella koepkei</i> (Krüger) Deighton (= <i>Cercospora koepkei</i> Krüger)   |
| Zonate leaf spot                      | <i>Gloeocercospora sorghi</i> Bain & Edgerton ex Deighton   |

<sup>a</sup>Those diseases not known to exist in the United States are marked with an asterisk and are classed as "exotic" by APHIS of U.S. Department of Agriculture.