

**TECHNICAL BULLETIN
NO. 2**

**A Preliminary List of Plant
Diseases in the
Northern Territory**

A PRELIMINARY LIST
of
PLANT DISEASES
in the
NORTHERN TERRITORY

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INTRODUCTION

This list represents the first attempt to bring together, in host index form, records of all plant diseases known to have occurred in the Northern Territory. A search for plant disease records is still in progress and for this reason the present list must be regarded as a preliminary one.

Plant disease records on which the list is based have been drawn from a number of sources including herbarium accession records, published literature, departmental files and earlier unpublished lists. It is impossible to assess the accuracy with which some disease identifications have been made and for this reason the list is divided into two parts. The first part comprises disease records for which supporting herbarium specimens or published literature references are known to exist. It is felt that records in this part can be more readily verified whenever necessary making the first part of greater value than the second which comprises records for which neither specimens nor published references are known.

The list will be revised as other existing herbarium specimens or literature references are located or as further collections of material are made.

PART 1

Records of plant diseases in this part are supported by specimens which are held in herbaria or by literature references.

Host plant species are listed alphabetically under the family to which they belong. The common name of the host appears opposite the botanical name. Pathogens or other causes of disease are listed under the host on which they have been recorded. Fungi, bacteria or nematodes are listed first, followed by viruses and then by physiogenic or undetermined causes.

The following additional information appears in order after the name of the pathogen:

Name of disease,

Place where specimen collected, or disease reported, and year,

Name of person who collected the specimen (Coll.) or reported the disease in the literature,

Name of person who determined the disease and its cause (Det.),

Herbarium number of specimen or literature reference. Herbarium numbers are those of the Darwin plant pathology laboratory unless prefixed by IMI (Commonwealth Mycological Institute, England) or by DAR (Department of Agriculture, Rydalmere, New South Wales).

AMARYLLIDACEAE

- Hymenocallis literalis (Spider lily)
Puccinia sp. Rust. Berrimah, 1967. Coll.: J.B. Heaton.
 Det.: J.B. Heaton. (149)

ANACARDIACEAE

- Anacardium occidentale L. (Cashew)
Fusarium sp. Root rot. Rapid Creek, 1965.
 Coll.: R. Harris. Det.: J.B. Heaton. (89)
Pestalozzia sp. Blossom rot. Garden Point, 1965.
 Coll.: T. Bell. Det.: J.B. Heaton (125).

- Mangifera indica L. (Mango)
Cladosporium sp. Fruit spot. Nightcliff, 1965.
 Coll.: J.B. Heaton. Det.: E. Punithalingam.
 (118: IMI120367).

BROMELIACEAE

- Ananas comosus (L.) Merr. (Pineapple)
 ? Thielaviopsis sp. Leaf lesions. Berrimah, 1964.
 Coll.: M.J. Dyer. Det.: J.B. Heaton. (54)

CARICACEAE

- Carica papaya L. (Papaw)
Macrophomina phaseoli (Maubl.) Ashby. Stem rot. leaf
 spot. Nightcliff and Berrimah, 1964. Coll.:
 J.B. Heaton. Det.: J.B. Heaton. (46, 61).

CARYOPHYLLACEAE

Dianthus sp. (Dianthus)

Phyllosticta sp. Leaf spot. Berrimah, 1965.

Coll.: J.B. Heaton. Det.: J.B. Heaton. (70)

COMPOSITAE

Lactuca sativa L. (Lettuce)

Bremia lactucae Regel. Downy mildew. Alice Springs
1969. Coll.: R.I. Keetch. Det.: R.N. Pitkethley.
(241).

Septoria lactucae Pass. Leaf spot. Katherine, 1964.

Coll.: J.B. Heaton. Det.: J.B. Heaton (17, 18).

Zinnia elegans Jacq. (Zinnia)

Erysiphe sp. Powdery mildew. Darwin, 1966. Coll.:

J.B. Heaton. Det.: J.B. Heaton. (135)

CRUCIFERAE

Brassica oleracea L. var capitata L. (Cabbage)

Alternaria brassicae (Berk.) Sacc. Leaf spot.

Katherine, 1968. Coll.: J.B. Heaton. Det.:

J.B. Heaton. (157).

Alternaria sp. Leaf spot. Berrimah, 1964. Coll.:

J.B. Heaton. Det.: J.B. Heaton. (13).

Cercospora sp. Leaf spot. Lake Dean, 1965.

Coll.: J.B. Heaton. Det.: J.B. Heaton (85).

Brassica pekinensis (Lour.) Rupr. (Chinese cabbage)

Alternaria sp. Leaf spot. Adelaide River, 1964.

Coll.: M.J. Dyer. Det.: J.B. Heaton, (11).

CUCURBITACEAE

Citrullis vulgaris Schrad. (Watermelon)

Alternaria sp. Leaf spot. Berrimah, 1965. Coll.:

J.B. Heaton. Det.: J.B. Heaton. (105).

Sphaerotheca fuliginea (Schlecht.) Poll. Powdery mildew.
Berrimah, 1964. Coll.: M.J.Dyer. Det.: J.B. Heaton
(60)

Cucumis melo L. (Rockmelon)

Alternaria sp. Leaf spot. Berrimah, 1964. Coll.:
M.J. Dyer. Det.: J.B. Heaton. (21, 22).

Cucumis melo var agrestis Naudin. (Wild melon)

Sphaerotheca fuliginea (Schlecht.) Poll. Powdery mildew.
Humpty Doo, 1970. Coll.: R.N. Pitkethley. Det.:
R.N. Pitkethley, confirmed J. Walker. (242; DAR19756).

Cucumis sativus L. (Cucumber)

Alternaria sp. Leaf spot. Berrimah, 1964. Coll.:
M.J. Dyer. Det.: J.B. Heaton. (14, 16).

Pseudomonas sp. Angular leaf spot, bacterial.
Adelaide River & Berrimah, 1964. Coll.: M.J. Dyer.
Det.: J.B. Heaton. (40, 41).

Pseudoperonospora cubensis (Berk. & Curt.) Rostow. Downy
mildew. Berrimah, 1965. Coll.: J.B. Heaton
Det.: G.M. Waterhouse. (112: IMI120365).

Cucurbita maxima Duchesne (Pumpkin)

Sphaerotheca fuliginea (Schlecht.) Poll. Powdery mildew.
Oenpelli Mission, 1965. Coll.: J.B. Heaton. Det.:
J.B. Heaton. (71).

Cucurbita pepo L. (Marrow)

Sphaerotheca fuliginea (Schlecht.) Poll. Powdery mildew.
Adelaide River, 1964. Coll.: J.B. Heaton. Det.:
J.B. Heaton, confirmed B. Ballantyne. (39).

CYPERACEAE

Cyperus iria L.

Puccinia sp. Leaf rust. Adelaide River & Berrimah,
1969. Coll.: R.N. Pitkethley. Det.: J. Walker.
(174; DAR17560).

GRAMINEAE

Chrysopogon latifolius S.T. Blake

Sorosporium tumefaciens McAlp. Inflorescence smut.

Adelaide River, 1970. Coll.; R.N. Pitkethley. Det.:
E. Punithalingam. (222; IMI147320).

Heteropogon triticeus R.Br.

Sorosporium glutinosum Zundel. Inflorescence smut.

Adelaide River, 1970. Coll.: R.N. Pitkethley. Det.:
E. Punithalingam. (221; IMI147319).

Oryza sativa L.

(Rice)

Alternaria longissima Deighton & MacGarvie. Panicle
discolorations. Upper Adelaide River Experiment
Station, 1968. Coll.: D.S. Hamilton. Det.: M.B. Ellis
(161; IMI136441).

Cercospora oryzae Miyake Narrow brown leaf spot.

Humpty Doo, 1962. Coll.: J.B. Heaton. Det.: J.B. Heaton.

Cochliobolus miyabeanus Ito & Kuribay. See Helminthosporium
oryzae.

Entyloma oryzae H. & P. Syd. Leaf smut. Humpty Doo, 1953.
(Valder, 1955).

Fusarium moniliforme Sheldon. Footrot. Upper Adelaide
River Experiment Station. (Heaton and Morschel, 1965).

Helminthosporium oryzae B.de Haan. Brown leaf spot.

Humpty Doo & Upper Adelaide River Experiment Station.

Coll.: J.B. Heaton, S.J. Aldrick. Det.: J.B. Heaton
M.B. Ellis. (3; IMI128758). (Heaton, 1966, 1969).

Nigrospora oryzae (Berk. & Br.) Petch. Minute leaf and
grain spot, grain discoloration. Upper Adelaide River
Experiment Station, 1968. Coll.: D.S. Hamilton. Det.:
M.B. Ellis. (161).

Pyricularia oryzae Cav. Blast. Upper Adelaide River
Experiment Station, 1962. Coll.: J.B. Heaton. Det.:
J.B. Heaton. (93). (Heaton, 1964).

Trichoconis padwickii Ganuly. Seedling mould.

Berrimah, 1969. Coll.: S.J. Aldrick. Det.: M.B. Ellis.
(IMI141002).

Xanthomonas oryzae (U. & I.) Dowson. Bacterial leaf blight.

Humpty Doo, 1970. Coll.: A.L. Chapman. Det.:

S.J. Aldrick, I.W. Buddenhagen. (252)

Xanthomonas translucens f.sp. oryzae Pordesimo. Bacterial

leaf streak. Humpty Doo, 1970. Coll.: S.J. Aldrick.

Det.: S.J. Aldrick. (253)

Undetermined. "Wallaby ear" symptom. Humpty Doo, 1967,

Berrimah, 1970. Coll.: M.J. Dyer, S.J. Aldrick.

(141, 238).

Oryza spp.

(Wild rices)

Cercospora oryzae Miyake. Narrow brown leaf spot.

Humpty Doo, 1970. (On O. rufipogon Griff.) Coll.:

S.J. Aldrick. Det.: S.J. Aldrick. (254)

Helminthosporium oryzae B. de Haan. Brown leaf spot.

Beatrice Hill, 1965. Coll.: M.J. Dyer. Det.:

J.B. Heaton. (68). (Heaton, 1966, 1969).

Pyricularia oryzae Cav. Blast. Beatrice Hill, 1964.

Coll.: J.B. Heaton. Det.: J.B. Heaton. (29)

(Heaton, 1964).

Xanthomonas oryzae (U. & I.) Dowson. Bacterial leaf blight.

Humpty Doo, 1970. (On O. rufipogon Griff.) Coll.:

S.J. Aldrick. Det.: S.J. Aldrick. (247-250).

Panicum sp.

Helminthosporium sp. Leaf spot. Humpty Doo, 1965.

Coll.: M.J. Dyer. Det.: J.B. Heaton. (123)

Pennisetum pedicellatum Trin.

Pyricularia grisea (Cke) Sacc. Leaf spot. Berrimah,

1970. Coll.: S.J. Aldrick. Det.: S.J. Aldrick,

confirmed J. Walker. (192).

Sorghum intrans

(a native sorghum)

Ustilago sorghi-stipoides Ling. Inflorescence smut.

Berrimah, 1964. Coll.: J.B. Heaton. Det.:

J.B. Heaton. (23).

Sorghum vulgare Pers.

(Sorghum)

Choanephora sp. Anther mould. Tipperary Station,

1969. Coll.: S.J. Aldrick. Det.: S.J. Aldrick. (243).

Colletotrichum graminicola (Ges.) G.W. Wils. Red leaf spot,

anthracnose, red stalk rot. Katherine, 1969.

Col.: J. Ive. Det.: R.N. Pitkethley, J. Walker. (166)

Pseudomonas sp. Bacterial leaf streak. Claravale Station, 1965. Coll.: J.B. Heaton. Det.: J.B. Heaton, (84).

Ramulispora sorghi (Ell. & Ev.) L.S. Olive & Lefebvre. Sooty stripe. Katherine, 1969. Coll.: J. Ive. Det.: J. Walker (167d).

Sorghum sp.

Sphacelotheca taiana (Syd.) Ling. Inflorescence smut. Katherine, 1970. Coll.: R.N. Pitkethley. Det.: E. Punithalingam. (227; IMI147321)

Themeda arguens (L.) Hack

Sorosporium sp. Inflorescence smut. Adelaide River, 1970. Coll.: R.N. Pitkethley. Det.: E. Punithalingam. (236; IMI147322).

Urochloa sp.

Uromyces leptodermus Syd. Rust. Douglas River, 1965. Coll.: J.B. Heaton. Det.: E. Punithalingam. (133; IMI120364).

LEGUMINOSAE

Acacia sp.

(Wattle)

Uromycladium tepperianum (Sacc.) McAlp. Gall rust. Douglas River, 1969. Coll.: R.N. Pitkethley. Det.: J. Walker. (186).

Alysicarpus sp.

Undetermined. Little leaf symptoms. Darwin, 1962. Coll.: G.A. Letts. (88).

Arachis hypogaea L.

(Peanut)

Cercospora sp. Leaf spot. Douglas River, 1965. Coll.: J.B. Heaton. Det.: J.B. Heaton. (74).

Clitoria sp.

Cercospora sp. Leaf spot. Nightcliff, 1964. Coll.: J.B. Heaton. Det.: J.B. Heaton. (20)

Delonix regia (Bojer) Raf.

Ganoderma lucidum (Boysse. ex Fr.) Karst. Basidiocarps
present on trunk, associated with wood rot.

Darwin, 1969. Coll.: S.J. Aldrick & R.N. Fitzkethley.
Det.: J. Walker. (175).

Glycine max (L.) Merr. (Soybean)

Undetermined. Little leaf symptoms. Discovery
Station, 1970. Coll.: R.R. Ainsley (239).

Phaseolus acropurpureus A.C. de Bary. (Siratro)

Rhizoctonia sp. Leaf blight. Hunter Dog, 1969.

Coll.: I. Miller. Det.: S.J. Aldrick, Confirmed
J. Walker. (152)

Undetermined. Little leaf symptoms. Adelaide River,
1970. Coll.: R.N. Fitzkethley. (224)

Phaseolus vulgaris L. (French bean)

Macrophomina phaseoli (Wahlb.) Ashby. Ashby stem blight.

Berrimah, 1970. Coll.: S.J. Aldrick. Det.:
S.J. Aldrick. (255).

Undetermined. Little leaf, witch's broom symptoms.
Katherine, 1970. Coll.: R. Sims. (240)

Undetermined, (? mycoplasma). Summer death symptoms.
Berrimah, 1970. Coll.: R.N. Fitzkethley. Symptoms
and varietal reactions suggest summer death disease.
(259) (Callaway, 1969).

Stylosanthes grayana (Aubl.) DC. (Stylo)

Undetermined. Little leaf symptoms. Upper Adelaide
River Experiment Station, 1969. Coll.: S.J. Aldrick
(163).

Stylosanthes humilis HBK (Townsville Stylo)

Pseudomonas solanacearum (D.F. Smith) D.F. Smith., biotype 4.
Bacterial wilt. Batchelor, 1969. Coll.: S.J. Aldrick.
Det.: J.W. Brasbury. (165; ILL BAC50-4053).

Undetermined. Little leaf symptoms. Darwin, 1962.
Coll.: G.A. Letts. (87).

Vigna sesquipedalis (L.) Rowlett. (Snake bean)

Alternaria sp. Leaf spot. Nitcheliff, 1964. Coll.:
A.J. Dyer. Det.: J.B. Heaton. (45)

Cercospora cruenta Sacc. Leaf spot. Lake Dean,
1965. Coll.: C.J. Benson. Det.: J.B. Heaton. (9).

Sphaerotheca fuliginea (Schlecht.) Poll. Powdery
mildew. Jingili, via Darwin, 1970. Coll.:
J.E. Holmes. Det.: S.J. Aldrick. (258).

Vigna sinensis (L.) Savi ex Hassk. (Cowpea)
Cercospora cruenta Sacc. Leaf spot. Douglas River,
1965. Coll.: J.B. Heaton. Det.: J.B. Heaton. (83).

MALVACEAE

Gossypium spp. (Cotton)
Alternaria sp. Leaf spot. Douglas River, 1965.
Coll.: J.B. Heaton. Det.: J.B. Heaton. (75)
Macrophomina phaseoli (Maubl.) Ashby. Stem rot.
Douglas River, 1965. Coll.: J.B. Heaton, Organism
identified in diseased tissue as suspected cause by
C. Booth. (IMI112211).
Xanthomonas malvacearum (E.F. Smith) Dows. Angular leaf
spot, bacterial. Daly River, 1962. Coll.:
J.B. Heaton. Det.: J.B. Heaton. (95)

MORACEAE

Ficus bengalensis L. (Banyan)
Trabutia butleri Theiss & Syd. Tar spot. Nightcliff,
1965. Coll.: J.B. Heaton. Det.: K. Pirozynski.
(116; IMI120366).

MUSACEAE

Musa spp. (Banana)
Gordana sp. Leaf spot. Darwin, 1964. Coll.:
M.J. Dyer. Det.: J.B. Heaton. (1).
Deightoniella torulosa (Syd.) M.B. Ellis. (= Helmintho-
sporium torulosum). Black spot. McMinn's Lagoon,
1968. Coll.: S.J. Aldrick. Det.: S.J. Aldrick,
(160).

MYRTACEAE

Eucalyptus tetradonta F. Muell
Phellinus robustus (P.Karst). Bourdot et Galzin.
Basidiocarps on trunk and branches. Cobourg
Peninsula, 1968. Coll.: J.R. Maconachie. Det.:
J.H. Willis. (181).

Melaleuca viridiflora Gaertn.

Phellinus spadiceus (Berk.) G.H.Cunn. Basidiocarps on
trunk. Mary River, 1969. Coll.: S.J. Aldrick.
Det.: J. Walker. (187).

PALMACEAE

Cocos nucifera L. (Coconut)

Pestalozzia sp. Leaf spot, possibly associated with
potassium deficiency. Adelaide River, 1968. Coll.:
S. Brett. Det.: S.J. Aldrick. (244).

Livistona humilis R.Br. (Sand palm)

Polyporus sp. Wood rot. Adelaide River, 1970.
Coll.: R.N. Pitkethley. Det.: J. Walker. (217).

PINACEAE

Pinus caribaea Morel. (Caribbean pine)

Lophodermium sp. Needle cast. Berrimah, 1969. Coll.:
D.Hearne. Det.: W.Stahl. (172)

Thelophora terrestris Ehrh. ex Fr. Basidiocarp on
lower stem of seedling. Berrimah, 1969. Coll.:
S.J. Aldrick. Det.: J. Titze. (177).

ROSACEAE

Rosa sp. (Rose)

? Sphaerotheca sp. Powdery mildew Darwin, 1965.
Coll.: M.J. Dyer. Det.: J.B. Heaton. (117).

RUTACEAE

Citrus limon (L.) Burm. f. (Lemon)

Botryodiplodia theobromae Pat. Fruit rot. Katherine,
1969. Coll.: R.N. Pitkethley. Det.: P. Broadbent.
(164).

Sphaceloma sp. Leaf scab of rough lemon. Berrimah, 1963.
Coll.: J.B. Heaton. Det.: J.B. Heaton. (27).

Citrus paradisi Macf. (grapefruit)
Fusarium sp. Root rot. Alice Springs, 1964. Coll.:
 J.B. Heaton. Det.: J.B. Heaton. (66).

Citrus sp.

Daldinia eschscholzii (Ehrenb.) Rehm. Ascostromata on
 trunk, associated with wood rot. Daly River Mission,
 1969. Coll.: R.N. Pitkethley. Det.: J. Walker
 (179).

SOLANACEAE

Lycopersicon esculentum Mill. (Tomato)

Alternaria solani Sorauer. Leaf spot or early blight.
 Coomalie Creek, 1964. Coll.: J.B. Heaton. Det.:
 J.B. Heaton. (24).

Pseudomonas solanacearum (E.F. Smith) E.F. Smith Bacterial
 wilt. Darwin, Gouburn Island, Oenpelli & Milingimbi
 Missions. Coll.: J.B. Heaton. Det.: A.C. Hayward.
 (Heaton and Benson, 1968)

Sclerotium rolfsii Sacc. Stem rot. Katherine, 1965.
 Coll.: P. Milne. Det.: J. Walker. (111).

Solanum tuberosum L. (Potato)

Alternaria solani Sorauer. Early blight. Katherine,
 1965. Coll.: P. Milne. Det.: J.B. Heaton. (113).

Streptomyces scabies (Thaxt.) Waks. & Henrici. Common
 scab. Katherine, 1965. Coll.: P. Milne. Det.:
 J.B. Heaton. (113).

TILLIACEAE

Grewia retusifolia Kunz

Pericladium grewiae Pass. Gall smut. Tipperary Station,
 1967. Coll.: M.J. Dyer. Det.: E. Punithalingam.
 (136; IMI129536).

VITACEAE

Vitis sp.

(Grape)

Uncinula necator (Schw.) Burr. Powdery mildew.

Humpty Doo, 1970. Coll.: S.J. Aldrick. Det.:

R.N. Pitkethley, confirmed J. Walker. (245;DAR19755).

PART 2

A list of reported plant diseases which are not supported by herbarium specimens or published references.

Host plant species are listed alphabetically under the family to which they belong. The common name of the host appears opposite the botanical name. Pathogens or other causes of disease are listed under the host on which they have been reported. Fungi, bacteria or nematodes are listed first, followed by viruses and then by physiogenic or undetermined causes.

The following additional information, if known, appears in order after the name of the pathogen:

Name of disease,

Place and year of observation,

Name of person who reported the disease.

AMARYLLIDACEAE

Allium cepa L. (Onion)
Botrytis sp. Leaf blight. 1963. J.B. Heaton.

APOCYNACEAE

Plumeria sp. (Frangipani)
Alternaria sp. Leaf spot. 1967. J.B. Heaton.

BROMELIACEAE

Ananas comosus (L.) Merr. (Pineapple)
Saccharomyces sp. Yeasty rot. J.B. Heaton

CARICACEAE

- Carica papaya L. (Papaw)
Fusarium sp. Stem rot. 1955. W. Stahl.
Metaphelenchus ropalocerus Steiner. Nematode. 1953.
 Colbran.
Phomopsis carica-papayae Petrak & Cif. Ripe fruit rot,
 stem rot. 1955. W. Stahl.
Pythium aphanidermatum (Edson) Fitzp. Root rot. 1962.
 J.R. Morschel.
 ? Papaw leaf crinkle virus. J.B. Heaton.

CHENOPODIACEAE

- Beta vulgaris L. var cicla L. (Silver beet)
Cercospora beticola Sacc. Leaf spot. W. Stahl.
Fusarium sp. Root rot. 1954. W. Stahl.
Beta vulgaris L. var vulgaris (Beetroot)
Cercospora beticola Sacc. Leaf spot. J.B. Heaton

COMPOSITAE

- Lactuca sativa L. (Lettuce)
Erwinia carotovora (Jones) Holland. Soft rot, bacterial.
 Alice Springs, 1967. S. Fish.
Pseudomonas marginalis (N.A.Brown) F.L. Stevens. Marginal
 leaf blight, bacterial. J.B. Heaton.
Sclerotinia sclerotiorum (Lib.) de Bary. Sclerotinia rot.
 J.B. Heaton.
 ? Virus. Yellows symptom. J.B. Heaton.

CONVOLVULACEAE

- Ipomoea batatas (L.) Lamk. (Sweet potato)
Macrophomina phaseoli (Maubl.) Ashby. Dry rot.

CRUCIFERAE

Brassica oleracea L. var botrytis (Cauliflower)

Phoma lingam (Tode ex Fr.) Deam. Blackleg. 1964.

J.B. Heaton.

Brassica oleracea L. var capitata L. (Cabbage)

Fusarium oxysporum Schlecht. f. conglutinans (Wr.) Snyder & Hans. Yellows. J.B. Heaton.

Peronospora parasitica Pers. ex Fr. Downy mildew. 1968.
S.J. Aldrick.

Phoma lingam (Tode ex Fr.) Desm. Blackleg. 1961,
J.B. Heaton.

Xanthomonas campestris (Pam.) Dows. Black rot, bacterial.
Katherine, 1967. J.B. Heaton.

CUCURBITACEAE

Citrullis vulgaris Schrad. (Watermelon)

Pseudoperonospora cubensis (Berk. & Curt.) Rostow. Downy
mildew. Katherine, 1965. J.B. Heaton.

Physiogenic. Blossom end rot. 20 mile via Darwin, 1970
R.N. Pitkethley.

Cucumis melo L. (Rockmelon)

Colletotrichum lagenarium (Pass.) Ell. & Halst.

Anthraxnose. 1961. J.R. Morschel.

Pseudoperonospora cubensis (Berk. & Curt.) Rostow. Downy
mildew. 1955. W. Stahl.

Pythium aphanidermatum (Edson) Fitzp. Fruit rot. 1955.
W. Stahl.

Cucurbita maxima Duchesne (Pumpkin)

Alternaria sp. Leaf spot. J.B. Heaton.

Choanephora sp. Blossom blight. Adelaide River, 1965.

J.B. Heaton.

? Erysiphe sp. Powdery mildew. J.B. Heaton.

Fusarium sp. Foot rot, wilt. J.B. Heaton.

GRAMINEAE

Ischaemum rugosum Salisb. var segetum Hack.

Helminthosporium sp. Leaf spot. Humpty Doo, 1970.
S.J. Aldrick.

Oryza sativa L.

(Rice)

Alternaria oryzae Hara. Leaf spot. 1955. W. Stahl.

Alternaria sp. Head mould. 1955. W. Stahl.

Aphelenchoides besseyi Christie. White tip (nematode).
1963. Fisher.

Curvularia sp. Mould. 1955. W. Stahl.

Pestalozzia oryzae. 1955. W. Stahl.

Phoma usterina Spegazzini. 1955. W. Stahl.

Phyllosticta oryzina (Sacc.) Padwick. 1955. W. Stahl.

Trematosphaerella oryzae (Miyake) Padwick. 1955.
W. Stahl.

Ustilagoidea virens (Gke) Tak. False smut. 1955.

W. Stahl.

Pennisetum typhoides L. Rich.

(Bulrush millet)

Macrophoma phaseoli (Maubl.) Ashby

Charcoal rot.

Katherine, 1965. J.B. Heaton.

Sorghum vulgare Pers.

(Sorghum)

Colletotrichum falcatum Went. Stem rot, anthracnose.
1961. J.R. Morschel.

Helminthosporium sorghicola Lefebvre & Sherwin. Leaf
spot. 1969. S.J. Aldrick.

Helminthosporium turcicum Pass. Leaf blight.
J.B. Heaton.

Pseudomonas andropogoni (E.F.Sm.) Stapp. Bacterial
stripe. 1961. McKnight.

Pseudomonas syringae van Hall. Bacterial leaf spot.
1961. McKnight.

Xanthomonas holicala (Elliot) Starr & Burkh.
leaf streak. 1961. McKnight.

Zea mays L.

(Maize)

? Virus "Wallaby ear" symptom. 1960. J.R. Morschel,
N. Grylls.

LEGUMINOSAE

Arachis hypogaea L.

(Peanut)

Cercospora personata (Berk. & Curt.) Ell. & Ev. Leaf spot.

1955. B. Orenham.

Macrophomina phaseoli (Haubl.) Ashby. Wilt, stem rot.

1954. W. Stahl.

Pseudomonas solanacearum (E.F. Smith) E.F. Smith. Bacterial wilt. 1968. S.J. Aldrick.

Rugose leaf curl virus. Leaf curl. Katherine, 1965.

B. Orenham.

Phaseolus vulgaris L.

(French bean)

Xanthomonas sp.

J.B. Heaton.

? Bean mosaic virus. Leaf mosaic. J.B. Heaton

Pisum sativum L.

(Pea)

Ascochyta pinodella L.K. Jones. Foot rot. 1955.

W. Stahl.

Stylosanthes scabra

Undetermined. Little leaf symptom. Berrimah, 1970.

S.J. Aldrick.

Stylosanthes subserrifera

Undetermined. Little leaf symptom. Berrimah, 1970.

S.J. Aldrick.

Vigna sesquipedalis (L.) Fr. (Snake bean)

? Virus. Mosaic symptoms. 1965. J.B. Heaton.

MUSACEAE

Musa spp.

(Banana)

Chloridium sp. Leaf speckle. J.B. HeatonHelicotylenchus multicinctus (Cobb) Golden. Root lesion (nematode). 1956. Colbran.Meloidogyne inaequalis (Kofoid & White) Chitwood. Root knot (nematode). 1953. Colbran.Mycosphaerella musicola Leach. Leaf spot, Sigatoka disease. 1961. J.R. Morschel.

Pseudomonas sp. ? Moko disease. Bacterial.

J.B. Heaton

Radopholus similis (Cobb) Thorne. Burrowing nematode.

1953. Colbran.

Rhizoctonia solani Kuehn. Corm. rot. 1955. W. Stahl.

MYRTACEAE

Eucalyptus sp.

Alternaria sp. Leaf spot. Alice Springs, 1967.

J.B. Heaton.

PALMACEAE

Cocos nucifera L.

(Coconut)

Diplodia sp. Leaf spot. J.B. Heaton

RUTACEAE

Citrus spp.

Diaporthe citri Wolf. Melanose. 1955. W. Stahl.

Phytophthora sp. Root rot. 1955. W. Stahl.

? Citrus exocortis virus. Scaly butt symptoms.

J.B. Heaton.

? Citrus psorosis virus. J.B. Heaton

? Citrus tristeza virus. Quick decline symptoms.

J.B. Heaton.

SOLANACEAE

Capsicum frutescens L.

(Capsicum)

Alternaria sp. Fruit spot. J.B. Heaton

Pseudomonas solanacearum (E.F. Smith) E.F. Smith.

Bacterial wilt. J.B. Heaton.

? Tobacco mosaic virus. Leaf mosaic. Katherine, 1969.

R.N. Pitkethley.

Lycopersicon esculentum Mill. (Tomato)

Curvularia sp. Leaf spot. J.B. Heaton

Macrophomina phaseoli (Maubl.) Ashby Stem rot.

Darwin, 1969. R.N. Pitkethley.

Meloidogyne incognita var acrita Chitwood. Root knot
nematode. 1953. Colbran.

? Tomato spotted wilt virus. 1966. J.B. Heaton.

Undetermined. Big bud symptoms. 1961. J.R. Morschel.

Undetermined. Leaf rolling, big bud symptoms. Darwin,
1970. R.N. Pitkethley.

Physiogenic. Blossom end rot. 1961. J.R. Morschel.

Solanum melongena L. (Egg fruit).

Pseudomonas solanacearum (E.F. Smith) E.F. Smith Bacterial
wilt. J.B. Heaton.

Solanum tuberosum L. (Potato)

Potato leaf roll virus. J.B. Heaton.

UMBELLIFERAE

Daucus carota L. var sativa DC. (Carrot)

Rhizopus stolonifer (Ehrent. ex Fr.) Lind. Soft rot.

Alice Springs, 1967. J.B. Heaton.

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