



PLANT PATHOGENS AND OTHER MICROORGANISMS IN PAPUA AND NEW GUINEA

Annotated List of References
to Plant Pathogens and Miscellaneous Fungi
in West New Guinea

By

DOROTHY E. SHAW

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ERRATUM

Page 36, line 42, for "*Hiospira hendrickxii* (Hansf.) R. T. Royall" read
"*Hiospira hendrickxii* (Hansf.) Royall T. Moore"

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PLANT PATHOGENS AND OTHER MICROORGANISMS IN PAPUA AND NEW GUINEA

DOROTHY E. SHAW¹

The following list of plant pathogens and references of other microorganisms of Papua and New Guinea includes all the published records which the author has been able to locate and those records which have been made by the writer since October, 1955, up to February, 1963.

Records for plant pathogens and miscellaneous fungi for West New Guinea are not listed herein but an annotated list of references to them is published separately (Shaw 1963).

The present List is arranged as follows :

Introduction

Part 1

Early records of plant pathogens and other fungi

Recent records by specialists outside the Territory

Records by Territory specialists

Brief notes on records of the following, with reference to work being carried out on the various groups at present :

1. Non-fungal plant pathogens (algae, bacteria, viruses, nematodes)
2. Hyperparasites
3. Non-pathogenic fungi
4. Microorganisms affecting the health of plants (Rhizobia, Casuarina nodules, mycorrhiza)
5. Microorganisms of economic importance (entomogenous, cacao fermentation, soil, medical, veterinary ; spoilage of fabrics, food and natural products ; reputed to have deleterious and other effects ; alga on airstrips)
6. Miscellaneous (soil nutritional conditions, lightning strikes, lichens and parasitic flowering plants, the Australian Cereal Rust Survey, quarantine, hormone weedicide damage, fasciations)

Notes on the collections, prior to and after 1955, and their distribution.

Part 2

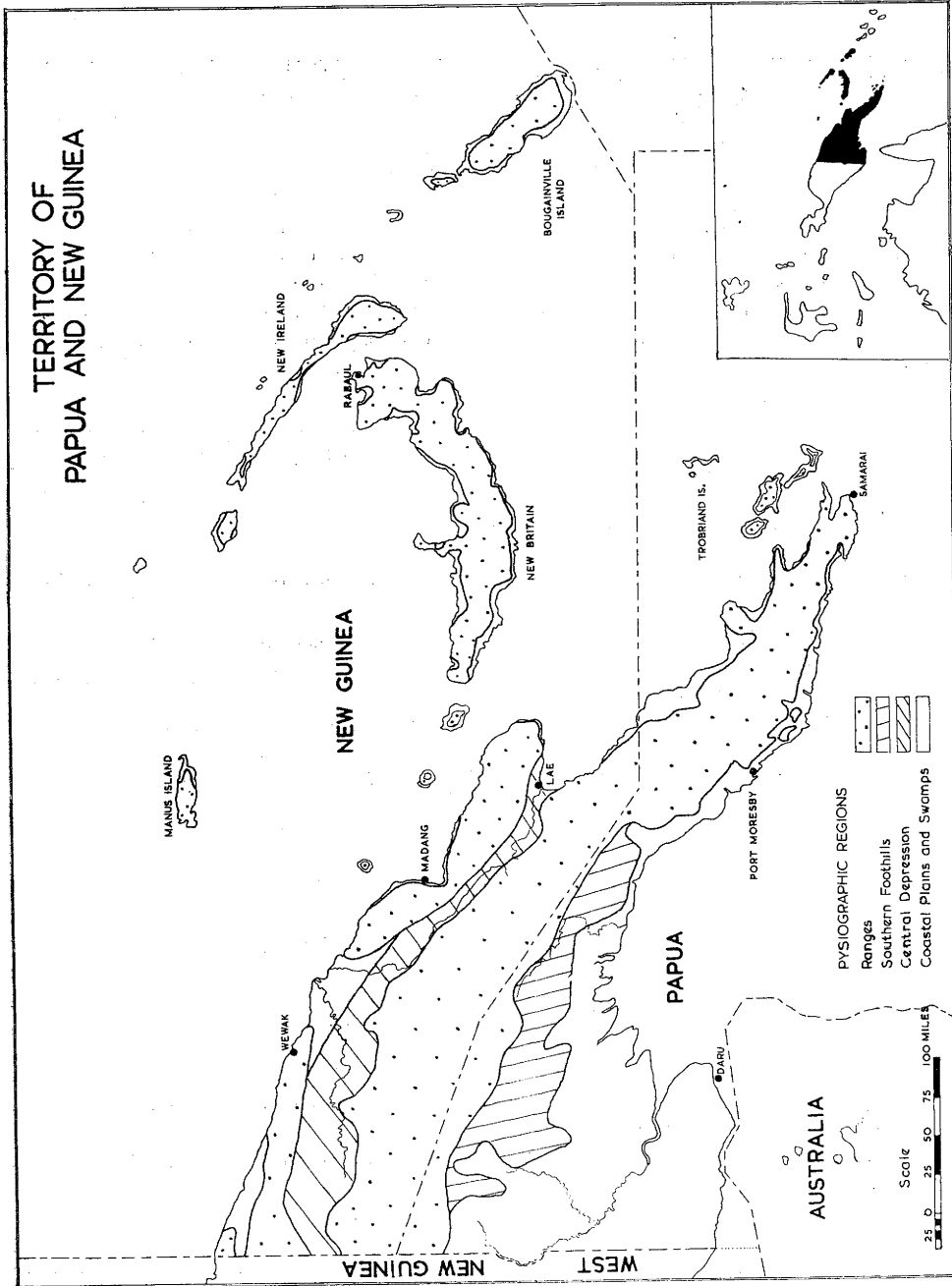
Check List of pathogens and microorganisms on identified plants.

Part 3

Lists of algae, bacteria, viruses, virus symptoms and nematodes ; hyperparasites ; entomogenous fungi closely associated with plants.

Acknowledgements, references, common names of host plants with their botanical equivalents, index.

¹ Principal Plant Pathologist, Department of Agriculture, Stock and Fisheries, Port Moresby.



After "The Resources of the Territory of Papua and New Guinea", Vol. 11, 1951

INTRODUCTION¹

The combined Territory of Papua and New Guinea (T.P.N.G.) comprises an area of 183,500 square miles and lies between latitudes 1°–12° S. and longitudes 141°–156° E. The main physiography regions of the mainland are the Main Ranges (up to 15,000 feet), the Northern Mountains, the Central Depression, the Southern Foothills and the Coastal Plains and Swamps. The islands of New Britain, New Ireland and Bougainville (the latter in the Solomon Group) are mainly mountainous with coastal plains and swamps. (Fig. 1.) Soils of the Territory are very diverse, the bulk having been developed on parent material of sediments of the Upper Tertiary, Pleistocene and Recent origin and on igneous intrusive, volcanic and metamorphic rocks of various ages.

The largest rivers are the Fly, the Sepik, the Ramu, the Purari and the Markham. The Territory has a tropical monsoonal climate and most places have an average annual rainfall in excess of 80 inches, although several areas receive an average of at least 250 inches per annum. Mean maximum temperatures for coastal stations are about 90° F. and the minimum rarely falls below 70° F.; above 7,000 feet occasional frosts are experienced, increasing in severity and frequency as altitude rises.

The flora consists of Australian and Asiatic elements, as well as a large endemic component. The main export crops are coconut products, cocoa, coffee and rubber. The indigenous population, which is nearly two million, is mainly self-supporting for food, the main staples being sweet potato, taros, bananas, sago and yams.

¹ Abstracted from "The Resources of the Territory of Papua and New Guinea", Vols. I and II, Department of National Development, Canberra, 1951.

PART 1

Early Records of Plant Pathogens and Other Fungi

Many of the early records are of macrofungi collected on botanical expeditions to eastern New Guinea (refer van Steenis-Kruseman, 1950, for details of the expeditions). The earliest publication which has been located is that of Berkeley (1842), which described macrofungi on old wood collected by Hinds in 1840. Cooke (1885, 1886*a*, 1886*b*) listed fungi (mainly Basidiomycetes) from British New Guinea (now Papua) (mostly from collections made by Armit probably within the period 1883-1885 and by Chalmers probably within the period 1877-1885), and later (Cooke, 1892) included 26 entries from British New Guinea in his Handbook. Von Müller (1894) published a list of 35 genera "as elucidated mainly by Dr. Cooke" from British New Guinea collections, many of them being macrofungi. The New Guinea species of at least ten of these genera were listed by Cooke in 1892, as mentioned above. Previously von Müller (1875) recorded one sooty mould from Papua.

Publications resulting from the German expeditions to German New Guinea (now the Trust Territory of New Guinea), particularly those of Hollrung in 1886-7, Lauterbach in 1890-1900, Kärnbach in 1887-95 and Warburg in 1889, are as follows: Schumann and Hollrung published "Die Flora von Kaiser Wilhelmsland" with fungi identified by Hennings and Cooke (1889); Hennings (1892, 1894, 1898*a*) published a series of articles dealing with "Fungi novo-guineenses" collected on these expeditions. These records were mainly of Basidiomycetes, but included fungi on named hosts, an hyperparasite and some entomogenous fungi. Hennings continued studying New Guinea collections (Hennings, 1893, 1900, 1902) and listed the fungi of New Britain (Hennings, 1898*b*) (published by Schumann) which also included a named host and entomogenous fungi. Hennings (1901, 1905) probably identified the species in two short lists of fungi from New Guinea, published by Schumann and Lauterbach. Some of the collections made on the German expeditions are listed in several of the above publications, occasionally with a change of name.

Bresadola (1890, 1914) recorded miscellaneous species of macrofungi from New Guinea, and also listed the "macromycetes" collected by Rechingier mainly at Bougainville in the Solomon Islands (Bresadola, 1910, 1913); the "micromycetes", mainly on identified hosts, collected by Rechingier were identified by von Keissler (1910).

Masee (1898, 1899) listed records and described two new species from New Guinea and Patouillard (1891) described one. The Sydows (1914, 1917, 1922) published records of fungi from Papua, including species on named hosts, hyperparasites and entomogenous fungi. Simmonds (1924) described some coconut diseases but did not name any causal organisms.

Recent Records by Specialists Outside the Territory

Cummins (1940, 1941*a*, 1941*b*, 1941*c*, 1943, 1952, 1953, 1956*a*, 1956*b*, 1956*c*, 1960, 1961) published a series of papers on the rusts of New Guinea, most of the early collections having been made by Mrs. Mary Strong Clemens, a missionary who worked mainly in the Morobe District of New Guinea. These papers described many new species; new combinations and synonyms as listed by Cummins (1952, 1956*a*, 1956*b*) have been added in the present list, and it is possible that other new combinations have been made which have not come to the author's attention. Zundel (1939, 1943, 1944, 1953) published on smuts from New Guinea, also collected by Mrs. Clemens. Voorhees (1942) included isolates from New Guinea in his study of *Physalospora rhodina*. Langdon (1948) recorded miscellaneous diseases and some entomogenous fungi. Ling (1949, 1950) published records of the smuts of the Territory. Magee (1952) made a survey of diseases of passionfruit and later (1954*a*, 1954*b*) made a survey of the virus diseases of Manila Hemp and food crops. Bugnicourt (1952, 1955) published on the mycoflora of rice seed and on a new species of *Helminthosporium* and Mann (1953) mentioned diseases of rubber. Several miscellaneous diseases mainly identified by pathologists at the University of Sydney were recorded in 1953 (Anon.). Walters (1955) and Reid (1955, 1963) published notes of New Guinea Basidio-

mycetes, Hansford (1956, 1957, 1958, 1961) recorded sooty moulds from the Territory and Gordon (1960) included two species from the Territory in his study on the taxonomy and habitats of *Fusarium* species. Ellis (1959) described two new species of fungi on coconut and on an introduced *Eucalyptus*. Booth (1961) published a brief note on a new disease of bananas, and Nobles and Frew (1962) included New Guinea isolates in their study of the genus *Pycnoporus*.

Records of sugar cane diseases have been made by members of the various cane collecting expeditions to New Guinea. Hughes (1953) summarized the early records, including those of Fiji disease and mosaic, made by the Carne and Baker expedition of 1914 (North, 1951; Buzacott and Hughes, 1951), the records of the Brandes-Jeswiet Expedition (Brandes, 1935, 1952; Brandes and Matz, 1935), of Lennox (1938), Stevenson and Rands (1938), Abbott (1946) and Martin (1950) (none of these publications, except Hughes', having been sighted by the author) as well as recording the diseases he encountered during the expedition of 1951. He also discussed other aspects of sugar cane diseases in the Territory, including the probable wrongfully included record of gumming disease made in some of the early lists. Buzacott (1953) discussed the possible vectors of Fiji disease of *Saccharum* species.

Dumbleton (1954) published a list of diseases for the South Pacific Territories, the "Australian New Guinea" compilation having been made by officers of the Territory Administration at a time when no pathologists were working in Papua and New Guinea. The compilation was apparently made from some published records, from unpublished records of some identifications made by pathologists outside the Territory, and from symptoms. No specimens are extant in the Territory, and the entries are given herein as "Listed Dumbleton". Where another name is now accepted as valid it has been added, and appears with the listed name. Authorities have been added where known. The diseases caused by the fungi were not given in the List. A few of the more serious inclusions which have never been confirmed, e.g. Panama disease of bananas (*Fusarium oxysporum* f. *cubense*), smut of sugar cane (*Ustilago scitaminea*), gumming disease of sugar cane (*Xanthomonas vasculorum*) and leaf scald of sugar cane (*Xanthomonas albilineans*) are so annotated in the list herein. The other entries which have been unconfirmed will be obvious from the lack of subsequent records.

Records by Territory Specialists

One of the first records made of a disease by workers within the Territory was what is now regarded as a misidentification of coffee rust (Anon., 1904), which has never been confirmed. Carson (1913a, 1913b) published two short papers on a coconut disease and fungicides; Zimmer (1918) published a brief pamphlet on coconut diseases; Bryce (1924)¹ published leaflets on cacao and coconut diseases; Angell (1931) surveyed the coconut and rubber diseases; Green (1938) briefly mentioned diseases of cacao; Dwyer (1937a, 1937b, 1939, 1940a, 1940b, 1941, 1953) recorded diseases of coconuts and other crops. Urquhart and Dwyer (1951) mentioned diseases of cacao and Henderson (1954) briefly mentioned diseases of cacao. Harris (1954) mentioned various diseases of citrus, Barrie (1956) and Cole (1960) mentioned a few diseases of coffee; Thrower (1954, 1955, 1958, 1960a, 1960b, 1960c) published papers mainly on diseases and fungi associated with cacao, and on nematodes. Shaw (1956) recorded a new disease of *Saccharum* species and noted (Shaw, 1958) the occurrence of *Puccinia polysora* in the Territory; Deighton and Shaw (1960) described a new disease of rice in Papua and New Guinea and other countries; Booth and Shaw (1961) described a new disease of bananas in the Territory, West New Guinea and certain islands in the Pacific; Shaw (1962a, 1962b, 1962c) discussed the coffee rust risk, coffee and cacao diseases in the Territory; van Velsen (1960, 1961a, 1961b, 1961c, 1961d, 1962) and van Velsen and Crowley (1961) published on hitherto undescribed viruses of *Cucurbita moschata*, *Passiflora foetida*, *Arachis hypogaea*, *Centrosema pubescens* and other plants.

Notes on Special Groups

1. Non-fungal Plant Pathogens

Algae

The collections of algae (of varying degrees of parasitism) made during this survey are species of *Cephaleuros* and *Phycopeltis*, mostly identified by the Commonwealth Mycological Institute, Kew. Until a monograph on the genus is undertaken, the Institute's advice is followed, that

¹ In some cases it is difficult to determine whether the descriptions of the diseases given in these papers refer to actual Territory occurrences, or whether they were included for information purposes only.

"*Cephalewos virescens* Kunze is preferred to *C. mycoidea* Karst.", which it evidently pre-dates. The collections are listed under the plant on which they occur in Part 2 and a complete list is given in Part 3.

Bacteria

Very few bacterial diseases have so far been recorded. The *Bacillus* sp.? recorded by Zimmer (1918) as causing bud rot of coconuts has not been confirmed; likewise, the bacterial leaf blight of coconuts (Dwyer, 1937b, 1953), gumming disease of sugar cane (*Xanthomonas vasculorum*) (Dumbleton, 1954) (for discussion see Hughes, 1953) and leaf scald of sugar cane (*X. albilineans*) (Dumbleton, 1954). The bacterial diseases recorded are listed under the hosts in Part 2, and in Part 3.

Viruses

Symptoms resembling those caused by viruses have been noted in the Territory by visiting specialists (e.g. North, 1915; Buzacott and Hughes, 1951 (both cited by Hughes, 1953); Hughes 1953; Magee, 1954a, 1954b) and by the author.¹ Buzacott (1953) discussed the possible vectors of Fiji disease of *Saccharum* species. Since 1958 one Territory pathologist, Mr. R. J. van Velsen, has been working almost exclusively on the identification of the viruses causing symptoms in some of the plants, particularly in the leguminous cover crops. Some of the viruses so far identified have been hitherto undescribed (van Velsen, 1960, 1961a, 1961b, 1961c, 1961d, 1962; van Velsen and Crowley, 1961). In Parts 2 and 3 are listed the plants with virus symptoms noted by the author since 1955 and the plants with records in the published papers, as listed above.

Nematodes

As far as can be traced the first records of nematodes in the Territory were those of Dwyer (1939, 1940b), who recorded root knots on seven crops and bush shrubs and listed identifications made by Dr. Goodey of nematodes from diseased yams and coconuts. Thrower (1958, 1960c) confirmed some of the records and listed others. Collections handled since 1955 by the author have been identified by Mr. John Fisher, Waite Institute, South Australia, and in 1962 by Mr. M. R. Sauer, C.S.I.R.O., Victoria, and are included with the published records in the list under the plant host in Part 2 and in Part 3.

2. *Hyperparasites*

Hyperparasites such as *Eudarluc australis*, *Cicinmobolus cesatii* and species of *Hemilinthosporium* have been recorded whenever they occur and are given in the List under the plant host as hyperparasite, and in Part 3. Parasites of species of *Phyllachora* have not been given detailed study and only a few are recorded.

3. *Non-pathogenic Fungi*

All the references on non-pathogenic fungi of Papua and New Guinea known to the author are listed in Part 1 of this paper under "Early records . . ." and below.

Because of economic pressures, very little attention has so far been given to fungi on substrates other than plants and old wood of identifiable trees since 1955, although some collections have been made. The identification of macrofungi collected by the Archbold Expeditions (1933-34, Papua, 15 collections deposited at the New York Botanical Garden; 1936-37, Papua, 26 collections deposited at the Arnold Arboretum, probably now at the Farlow Herbarium; 1956, Papua, 1 collection, deposited at Rijksherbarium, Leiden; 1959, New Guinea, 1 collection, deposited at U.S. National Herbarium, Washington)²; by Carr (1935-36 in S.E. New Guinea),³ by the C.S.I.R.O. Land Research and Regional Survey Team, collecting on various surveys from 1954, by E. J. H. Corner of Cambridge, 1960, and of Gasteromycetes by Mrs. Briggs of Queensland, collected about 1956, have not been published as yet to the author's knowledge. Duplicates of the C.S.I.R.O. collections have been lodged in the Territory Herbarium for Microorganisms at Port Moresby. Also lodged in the Herbarium are specimens of miscellaneous fungi, mainly brackets of Basidiomycetes, made by various collectors (e.g. officers of the Department of Forests, J. B. Cleland, L. B. Thrower and others), together with collections made by the author since 1955. At some future date, it is hoped to publish a list of the non-pathogenic fungi lodged in the Harbarium.

¹ Dwyer (1937b, 1953) suspected "head droop" and other abnormalities of *Cocos nucifera* to be virus diseases, but these are at present unconfirmed.

² Details kindly supplied by Mr. L. G. Brass (personal communication).

³ Carr collections deposited in the Royal Botanic Gardens, Kew.

4. Microorganisms Affecting the Health of Plants

Rhizobia

The *Rhizobium* requirements of legumes used as shade, cover, vegetable and other crops in the Territory fall into the province of the Pathology Section.

Although a few cultures were imported and distributed prior to 1954, the initial work in this field was done by Mr. L. B. Thrower in the period 1954-7 and carried on by the author until 1959 (save for the period April-September, 1958, when Mr. R. J. van Velsen relieved). In April, 1959, Mr. M. J. Trinick was appointed to specialize in this field, and has handled the distribution and testing of cultures (mainly for *Leucaena glauca*) since that date. At present no information is available regarding the *Rhizobium* requirements of indigenous legumes, including many forest trees, and it is hoped that the specialist will be able to include work on some aspects of this problem in the course of his investigations into the requirements of the legumes of immediate economic importance.

Casuarina Nodules

Included here (although the identity of the causal organism, if any, has not yet been established to the author's knowledge) is a brief note on nodules of *Casuarina* species. Species of this genus are important in some areas of the Territory, especially the Highlands. All of the seedlings checked by the author have carried abundant nodules, and specimens of these have been sent to Dr. Bond of the University of Glasgow for examination. It is hoped that further work will be possible by the specialist on this problem in the future.

Mycorrhiza

As yet no work has been done on mycorrhiza in the Territory, either of indigenous trees in untouched stands, or those indigenous trees which are being used in reforestation programmes, e.g. *Araucaria cunninghamii* and *A. hunsteinii* and *Eucalyptus deglupta*.

One *Pinus insularis* tree has been established at Wau for many years, and it is reputed that soil containing mycorrhiza was brought in from Australia before quarantine on soil was imposed, and used around this tree. Certainly soil from around this tree has been used by the Department of Forests to inoculate beds of various species of *Pinus* brought in from Australia as seed, which are now growing at Goroka, Bulolo and Mt. Hagen. Forest Officers have reported (personal communication) that many of these seedlings now have mycorrhiza.¹

5. Microorganisms of Economic Importance

Entomogenous Microorganisms

Records of entomogenous fungi include those made by Hennings (1898a, 1898b, 1902), Sydow (1922), Langdon (1948), Barrett (in a paper read to the ANZAAS Meeting in Brisbane, 1961, at present unpublished), Szent-Ivany (in a paper read to the ANZAAS Meeting in Brisbane, 1961, at present unpublished) and Shaw (as listed herein). Steinhaus (1959) and Szent-Ivany (1960) reported on a bacterium (*Serratia marcescens* Bizio) isolated from the noctuid moth *Pericyma cruegeri*, which causes damage on poinciana. Barrett (unpublished) reported on a condition of the larvae of a limacodid in the Highlands, the cause of which has not yet been determined. Surany (1960) quoted Dun as reporting discoloration of *Oryctes* larvae in New Britain, the cause of which has also not yet been determined. In recent years, Dr. E. C. Mains of Ann Arbor, Michigan, and Dr. Steinhaus of Berkeley, California, have been identifying the entomogenous fungi and other microorganisms. It is possible that other identifications of entomogenous fungi have been made, but the papers have not come to the author's notice.

In 1962 "Thuricide W.P." reputed to contain viable spores of *Bacillus thuringiensis* Berliner was imported and released by the Department in the Popondetta area of Papua as a pathogen of the larvae of the noctuid moth *Tiracola plagiata* Walk., infesting cacao and other plants (Catley, 1962).

The Check List in Part 2 under the plant host, and the list in Part 3 includes only those records of entomogenous fungi found on insects which are closely associated with plants; the insect component in these associations is often difficult to determine. It is hoped that a full list of entomogenous fungi and microorganisms for the Territory, including both those closely associated with plants and those not so associated, will be published at a later date.

¹ In July, 1961, the first importation of seedlings of *Pinus* species (*P. radiata* and *P. pseudotsugus*) was made into the Territory from Australia, and these were found to have abundant short dichotomously branched mycorrhizal roots.

Organisms Associated with Cacao Fermentation

Friend (unpublished) carried out a little preliminary work on the biological component of cacao fermentation, and Bridgland (unpublished) imported cultures of *Hansenula anomala* and *Bacillus orleanense* from overseas, together with various yeasts, for inclusion in cacao fermentation tests in New Britain.

Microorganisms in Soil

(i) *Antibiotic Screening*

During 1957 samples of soil were collected on request from many parts of the Territory, and forwarded to Eli Lilly and Co., Indianapolis, U.S.A., for screening for antibiotic-producing organisms. No information concerning the results of these tests has been received. It is also possible that soils for antibiotic screening were collected during the Archbold Expeditions to the Territory.

(ii) *Non-symbiotic Nitrogen Fixers*

In 1955-56 Thrower (unpublished) attempted to isolate non-symbiotic nitrogen-fixing organisms from primary and secondary forest soils, cocoa plantation soils and soils from gardens of annual crops. Isolates were obtained from the first and third soils only, and these were identified by Dr. Y. T. Tchan of the University of Sydney as species (unspecified) of *Azotobacter*. Dr. Tchan (personal communication) also identified *Beijerinckia* in soil from the Territory submitted by Dr. McKee of Sydney. The present microbiologist, Mr. M. J. Trinick, has now commenced work in this field.

(iii) *General*

Samples of soil were also forwarded on request to Dr. Warcup, Waite Institute, South Australia, for microbiological work, but no information concerning the results of this work has been received to date.

Frey (1959) described a new species of fungus (*Aleurisma keratinophilum*) isolated on human hair from soil samples collected from Australia and four from New Guinea (two from Goroka and two from Kavieng). Frey and Griffin (1961) discovered and described the asexual state of *Ctenomyces serratus* Eidam, using the hair-bait technique, from three soils from New Guinea and from soils from Australia. Durie (in a paper presented at the ANZAAS Meeting in Brisbane, May, 1961, but at present unpublished) reported on fungal isolates from samples of soil, including 82 samples from New Guinea.

Medical Microorganisms

It is possible that investigations in this field were undertaken during the 1939-45 war, either in the Territory, Australia or the United States, but no papers have been traced.

Dr. Forbes (School of Public Health and Tropical Medicine, University of Sydney) has mentioned (personal communication) that isolations, mainly Actinomycetaceae, are being made from New Guinea medical specimens, and that this work will be reported by the workers concerned at a later date.

Veterinary Microorganisms

The Animal Industry Division of the Department of Agriculture, Stock and Fisheries is preparing a Check List of diseases and causal organisms concerned in veterinary medicine, which will be published at a future date.

Spoilage of Fabrics, Food and Natural Products

During the 1939-45 war some work was carried out on spoilage of fabric and other materials. The only papers traced on this work are as follows: Weston (1949) reported on many cultures, including 46 selected by Dr. C. J. Magee, of the Scientific Liaison Bureau, Sydney, isolated from deteriorated materials, chiefly from New Guinea; Gray (1946) on the isolation of microorganisms from equipment forwarded from New Guinea (not seen, but cited by Reese *et al.* (1950)); Anon. (1943) on the condition of service material under tropical conditions in New Guinea, which probably mentions fungi (not seen, but cited by Weston, *ibid.*, p. 21); Reese *et al.* (1950) listed fungi, bacteria and actinomycetes isolated from deteriorated materials, including 242 isolates from New Guinea (presumably the mainland) and Bougainville.

Ritchie (1960) has recently recorded the unusual counter-clockwise spiral pattern of growth of an isolate of *Aspergillus ustus* (Bain.) Thom and Church, which was originally obtained by the Chemical Warfare Service of the United States Army in 1943 from a piece of decaying cloth in the Milne Bay area in Papua.

Very little work has been done in the Territory to date on microorganisms associated with the spoilage of foods and natural products. Moulds occur on insufficiently dried copra and on cacao beans under conditions of heavy rainfall, but they have not been studied in detail. Some work has been done (Friend, unpublished) on fungi associated with rots of cacao pods after harvest, work which arose out of the necessity for finding the best method for transporting live cacao beans inside the pod.

Microorganisms Reported to have Deleterious and Other Effects

(i) *Fungi Reported to Cause Temporary "Madness" and Other Effects*

The anthropologists Gitlow (1947), Vicedom and Tischner (1943-8) and Reay (1959, 1960) mentioned the belief of certain tribes in the Wahgi Valley that some mushrooms when eaten cause temporary "madness" and other effects, and Reay described the behaviour of the people on some of these occasions. The Wassons (1957)¹ referred to the report of Gitlow mentioned above, without further elaboration.

Various attempts have been made by the Administration to procure specimens of the fungi reputed to be involved. Collections obtained have been forwarded to the Royal Botanic Gardens, Kew, and from them Singer (1959) described *Russula nondorbingi* and mentioned an unnamed member of the Agaricales. It seems unlikely that most of the specimens forwarded from the area would have caused any deleterious effects whatsoever. The total available information to date regarding the details of the collections, habitats, prevalence, methods of cooking, local names and other data will be published elsewhere (Shaw, unpublished). There is a great reluctance on the part of the local people to discuss these fungi, and the very real problem is to ascertain what fungus or fungi were reputed to be involved, and to what extent, *if at all*, the specified fungus contributed to the condition.

(ii) *Fungi Reported to have "Anti-fertility" and Other Properties*

The Wassons (1957)¹ recorded a statement by Father John Nilles of Mingende, in the Wahgi Valley, to the effect that he knew of one kind of mushroom that is used by women in the area as a means of preventing conception or procuring abortion. Small slices of the mushroom were cut off, cooked by the women between hot stones, and eaten with cooked sweet potatoes. The Wassons were able to obtain two cross sections from Father Nilles, which were sent to Professor Roger Heim in Paris. They were insufficient for positive identification, but Professor Heim felt confident that the specimens were probably *Ungulina auberiana* (Mont.) Pat. He further mentioned that this particular species is abundant throughout the tropics and that "in the collections of the New York Botanical Garden the specimens carry the designation *Rigidoporus microporus*".

The Administration is endeavouring to obtain specimens in connection with this reputed use.

(iii) *Investigations in Relation to the Kuru Disease*

In 1957 a survey of native foods and other plants was undertaken by the nutritionist attached to the Department of Public Health, in relation to investigations being carried out on the Kuru Disease (fatal deterioration of the nervous system) of the Fore people in the Eastern Highlands of New Guinea. Fungi collected in this survey were sent through the Department of Agriculture, Stock and Fisheries, to Professor Roger Heim, Muséum National d'Histoire Naturelle in Paris, for identification. Professor Heim reported (letter 23/3/59) "on peut affirmer qu' aucun de ces champignons ne se rapproche génériquement des Agarics hallucinatoires ou toxiques auxquels on pourrait, a priori, penser". In a further letter (dated 28/3/58) the Professor reported that two of the specimens were "*Favolus spathulatus* (Jungh.) Bres. (= *multiplex* Lev.)" and mentioned that the specimen of Dr. Yersin, collected in 1926 on the Hon-Ba (Annam) "est porté, d'après le renseignement du collecteur, comme 'espèce toxique'". This was the only fungus amongst those sent suspected of any harmful quality.

¹ Verbatim extract of pertinent section kindly supplied by Dr. J. R. Price of C.S.I.R.O.

Alga on Airstrips

Difficulty is experienced with an alga on some airstrips in the Territory, despite improved systems of drainage, particularly on those in the Highlands where rainfall is high and cloud cover is extensive. The alga on both the Lowlands and Highlands airstrips, i.e. from just above sea level to about 5,000 feet, is *Nostoc commune* Voucher.¹

6. Miscellaneous

Soil Deficiency and Toxicity Diseases and Physiological Derangements

Diseases caused by soil deficiencies and toxicities, and other physiological and environmental diseases are not recorded herein. They occur in publications by Angell (1931), who recorded Brown Bast of rubber, Dwyer (1937a, 1937b, 1939, 1940a, 1940b, 1953), Baseden (1960), Baseden and Southern (1959) and Charles (1959a, 1959b). Further investigational work is being carried out by the Chemical Section of the Department, and will be reported elsewhere.

Lightning Strike

Dwyer (1937b) and Charles (1960) discussed the occurrence of lightning strike in New Guinea. The latter considered that losses in most areas of the Territory due to lightning strike on coconut plantations are probably greater than those resulting from any insect or disease attack. Field observations on one such strike are given in the above paper. The problem as to what causes the death over a period of many months of the palms surrounding the one struck is in need of investigation.

Lichens

Lichens occur commonly on Territory plants, and specimens are sometimes received as suspected agents of disease. They are not listed herein.

Parasitic Flowering Plants

Parasitic flowering plants, e.g. mistletoe and *Cassytha* species, are not recorded herein. They are being studied by the Division of Botany, Department of Forests.

Australian Rust Survey

Since 1956 varieties of wheat, oats, barley and rye have been grown at Laloki (near Port Moresby) and in the Eastern Highlands at Aiyura (about 5,000 feet) and occasionally at other places, for Professor I. A. Watson of the University of Sydney, as indicator plants for the cereal rusts. To date, however, no rust, either stem or leaf, has been recorded on these varieties. Other varieties of wheat, mainly grown in the Highlands, have also been examined during this period, but have also been found rust-free.

Quarantine

In an endeavour to keep the Territory free of many of the diseases of economic importance occurring overseas, complete prohibition operates on some plant species and restricted importation on others; the restrictions applying to region or country of origin, to fungicidal treatments required, to particular parts of plants, etc. Pathogens noted on imported plants directly intercepted during quarantine inspections are not listed herein, but organisms recorded on plants derived from imported seed grown at the Quarantine Station outside Port Moresby are listed, as there is the possibility that the organism was already present in the country but not recorded.

Hormone Weedicide Damage

Hormone weedicides have so far caused very little damage to crops in the Territory, as the weedicides are only in limited use as yet. Plants affected have been *Coffea arabica* and *Gossypium* spp.

Fasciations

Fasciated plants have been recorded occasionally and are shown in Part 2, although the factors causing the fasciation have not been determined.

¹ Identified by Dr. A. B. Cribb, University of Queensland.

The Collections

Early Collections

Specimens collected in the nineteenth and early twentieth centuries on the British and German botanical expeditions and consisting mainly of macrofungi have not been examined by the author. It is probable that some of these fungi are now known by other names. New combinations and synonymy are given where Territory library facilities have enabled checking to be carried out; otherwise the records on named hosts are given as they occurred in the original texts.

The same applies to the early collections of nematodes, which were probably lost during the 1939-45 war. The records are given in the following list exactly as they occurred in the original text, except that entries originally given as "*Heterodera radicicola*" are given as "*Meloidogyne* sp., as *Heterodera radicicola*".

Collections of pathogens studied prior to 1955 by specialists (e.g. George B. Cummins) were retained by the specialist concerned. The disposition of specimens of macrofungi collected by expeditions to the Territory is given in the section "Non-pathogenic fungi", together with reference to the miscellaneous collections of macrofungi lodged in the Herbarium at Port Moresby.

Collections since 1955

The majority of the specimens in good condition examined by the author since 1955 are lodged (usually with slides) in the Herbarium of the Department of Agriculture, Stock and Fisheries at Port Moresby, and carry a TPNG accession number. Cultures of some of the pathogens are also maintained.

Portions of many of these collections have also been deposited overseas, mainly at the Commonwealth Mycological Institute (and carry, therefore, an IMI number, which, however, is not given in this list), and also sent to certain workers specializing in particular groups (e.g. C. G. Hansford (sooty moulds); Barnett and Lilly (*Choanephora*); Mildred K. Nobles (*Pycnoporus coccineus*); Derek Reid (mainly Polyporaceae); P. D. Turner (*Phytophthora palmivora*); J. Fisher, Waite Institute, South Australia (Nematodes); and others). Occasionally, when material was limited, the whole collection was sent to the specialist (e.g. some nematode collections).

Some published records of important diseases which have never been confirmed, and for which no specimens are extant, have been so annotated.

In the main list organisms are given under the botanical name of the plants on which they were found, these being in alphabetical order. Common names of the hosts have been inserted where possible.

The general arrangement under the host is as follows:

- the disease caused;
- the botanical name of the organism in the order;
- fungi—given in alphabetical order and including pathogens, with hyperparasites if any; sooty moulds; fungi recorded on identifiable old wood and moribund parts of the main economic plants (coconuts, cacao, coffee, rubber)
- algae
- bacteria
- viruses and virus symptoms
- nematodes;
- the number of records—
 - (i) those published with reference and date of publication;
 - (ii) those examined by the author during the last seven years, to which a TPNG Accession number is given for at least one collection, followed by "D.S."

Following the procedure of the Commonwealth Mycological Institute, fungi are listed under the name of the perfect state, but indication is given if the imperfect state only was recorded. In those cases where different perfect states are known for only slightly different imperfect states (e.g. species of *Oidium* with perfect states in different genera), the imperfect name only is given.

Fruiting bodies of primary pathogens rarely have time to form on plantation trees affected with root rot before the removal of the tree, so that positive identifications of the fungi are usually impossible, although studies of the isolates in culture give probable identifications. In Part 2 root rots studied since 1955 with fruiting bodies are distinguished from those without fructifications.

In some cases the agents causing leaf spots and other diseases, particularly of non-economic plants, have not yet been determined, but the diseases are, however, listed in Part 2.

The number of times a disease has been recorded is given as 1, 2, 3, several (4-7) or many (over 7). It should be noted that the number of records made gives no indication of the severity of the disease, e.g. one collection might be made of all the leaf spots of the only plant showing the disease in the area, while another might be made of a diseased plant which is only one of a large number of diseased plants in the same area.

The pathogenicity of all the records included has not been confirmed, and some fungi are doubtless weak parasites or even saprophytes. Ascomycetes and fungi imperfecti occurring on old wood or moribund parts of identifiable, economic plants are listed, as it is possible that some at least might be the perfect or imperfect stages of pathogens.

Some of the diseases have so far been recorded in certain areas only, but localities are not listed herein, since no record (at this stage of investigations) need not necessarily mean absence of the disease.

An examination of the list of diseases will reveal that very few of the diseases which cause great economic loss in plants overseas are present in the Territory, no doubt due to the rigorous quarantine which has been maintained by the Administration.

Not enough is yet known about the diseases of the plants indigenous to this Territory, to West New Guinea, to the north-west chain (Molucca Islands-Celebes-Philippines), to the west chain (Timor-Java-Sumatra-Borneo), to Micronesia, to the east chain (the British Solomon Islands Protectorate-New Hebrides-New Caledonia-Fiji Islands) and to Australia, to comment authoritatively on the distribution of the pathogens of the indigenous plants within these areas.

PART 2

CHECK LIST OF PATHOGENS AND MICROORGANISMS ON IDENTIFIED PLANTS

ABELMOSCHUS MANIHOT see **HIBISCUS MANIHOT**

ABRUS PRECATORIUS L.

Rust	<i>Uredo kaernbachii</i> P. Henn. As <i>Uromyces kaernbachii</i> P. Henn. in Hennings 1892a	One record; Hennings 1892, 1898a
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ACALYPHA HISPIDA Burm. f.

Leaf spot		One record; 2372 D.S.
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ACALYPHA WILKESIANA Müll.-Arg.

Little leaf	Virus	One record; van Velsen 1961d
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ACALYPHA sp.

Leaf spots		Three records; 1521 D.S.
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ACORUS CALAMUS L.

Rust	<i>Uromyces pyriformis</i> Cooke	One record; Cummins 1941b
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ADENOSTEMMA sp.

Rust	<i>Aecidium adenostemmae</i> P. Henn.	One record; Hennings 1898a
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AEGIALITIS ANNULARIS R. Br.

Leaf spot	<i>Macrophoma</i> sp.	One record; 2936 D.S.
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AFZELIA BIJUGA Gray

On leaves	<i>Hyaloderma afzeliae</i> Keissl.	One record; von Keissler 1910
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AGAVE SISALANA (Engelm.) Perrine var. **AMANIENSIS**

Associated with sun scorched tissue	<table border="0" style="border-left: 1px solid black; border-right: 1px solid black;"> <tr> <td style="padding: 0 5px;">{</td> <td><i>Colletotrichum</i> sp.</td> </tr> <tr> <td style="padding: 0 5px;">{</td> <td><i>Fusarium</i> sp.</td> </tr> <tr> <td style="padding: 0 5px;">{</td> <td><i>Leptosphaeria</i> sp.</td> </tr> </table>	{	<i>Colletotrichum</i> sp.	{	<i>Fusarium</i> sp.	{	<i>Leptosphaeria</i> sp.	Two records; 2186b D.S. One record; 2089c D.S. One record; 2186a D.S.
{	<i>Colletotrichum</i> sp.							
{	<i>Fusarium</i> sp.							
{	<i>Leptosphaeria</i> sp.							

AGERATUM CONYZOIDES L.

Mildew	<i>Mycovellosiella perfoliata</i> (Ell. & Ev.) Muntañola (= <i>Ragnhildiana agerati</i> (Stevens) Stevens & Solheim)	Several records; 1336 D.S.
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Fasciation of head		One record; 2298 D.S.
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ALBIZIA FULVA C. T. White

Rust	<i>Uromycladium tepperianum</i> (Sacc.) McAlp.	Several records; 1786 D.S.
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ALBIZIA PROCERA Benth.

Rust	<i>Ravenelia clemensiae</i> Sydow	Several records; Cummins 1941c
Rust	<i>Uromyces albiziae</i> P. Henn.	One record; Hennings 1892

ALBIZIA STIPULATA Boiv.

Rough black bark		One record; 2583 D.S.
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ALBIZIA sp.

Root rot	Probably <i>Fomes noxius</i> Corner (no fruiting bodies)	One record; 3094 D.S.
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Rust	<i>Uromycladium tepperianum</i> (Sacc.) McAlp.	Several records; 1768 D.S.
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ALLIUM ASCALONICUM L.	Shallot		
Leaf tip wither	<i>Botrytis cinerea</i> Pers. ex Fries		One record ; 2682 D.S.
ALLIUM CEPA L.	Onion		
Smudge	<i>Colletotrichum circinans</i> (Berk.) Voglino		One record ; 777 D.S.
ALLIUM PORRUM L.	Leek		
Leaf blight	<i>Alternaria porri</i> (Ell.) Cif.		Two records ; 78 D.S.
ALOCASIA sp.			
Leaf spot	<i>Mycosphaerella alocasiae</i> Sydow		Several records ; 468 D.S.
Rust	<i>Uredo alocasiae</i> P. Henn.		One record ; Hennings 1892
Mosaic			Listed Dumbleton 1954
ALOCASIA ? sp.			
Rust	<i>Puccinia paulula</i> Sydow		One record ; Cummins 1941b
ALSTONIA SCHOLARIS R. Br.	Milky pine		
Sooty mould			One record ; 2041 D.S.
AMOMUM (<i>Hornstedia</i> sp.)	(Host as given by Cummins)		
Rust	<i>Phakopsora eletteriae</i> (Racib.) Cummins		Two records ; Cummins 1941c
AMORPHOPHALLUS CAMPANULATUS Blume			
Leaf spot	<i>Cercospora protensa</i> Sydow		Three records ; 3172 D.S.
Rugosity of leaves, variation in colour	Possibly virus		One record ; 477 D.S.
ANACARDIUM OCCIDENTALE L.	Cashew nut		
Algal spot	<i>Cephaleuros virescens</i> Kunze		Three records ; 373 D.S.
ANANAS COMOSUS (L.) Mead	Pineapple		
	<i>Ceratocystis paradoxa</i> (Dade) Moreau		Listed Dumbleton 1954
	As <i>Ceratostomella paradoxa</i>		
Associated with leaf blotch	<i>Curvularia lunata</i> (Wakker) Boedijn		Two records ; 1229 D.S.
	<i>Stachylidium bicolor</i> Link ex Fries		One record ; 478a D.S.
	<i>Trichobotrys pannosa</i> Penz. & Sacc.		One record ; 478b D.S.
ANDROPOGON CONTORTUS L.			
Rust	<i>Puccinia versicolor</i> Diet. & Holw.		One record ; Cummins 1941c
ANDROPOGON MICRANTHUS	see CAPILLIPEDIUM PARVIFLORUM		
ANDROPOGON SCHOENANTHUS	see CYMBOPOGON SCHOENANTHUS		
ANEILOMA sp. cf. A. LINEOLATUM Kunth.			
Leaf spot			One record ; 2567 D.S.
ANONA MURICATA L.	Soursop		
Sooty mould	<i>Capnodium</i> sp.		One record ; 1649a D.S.
Sooty mould	<i>Chaetothyrium</i> sp.		One record ; 1649c D.S.
Sooty mould	<i>Microxyphium</i> sp.		One record ; 1649b D.S.
Sooty moulds			Several records ; 1607 D.S.
Algal spot	<i>Cephaleuros</i> sp. (probably <i>C. virescens</i> Kunze)		One record ; 1598 D.S.
ANONACEAE			
Rust	<i>Sphaerophragmium boanense</i> Cummins		One record ; Cummins 1940
ANTHOXANTHUM HORSFIELDII (Kunth) Mez			
Rust	<i>Puccinia poae-nemorialis</i> Otth		One record ; Cummins 1941b,
	As <i>P. poae-sudeticae</i> (Westend.) Jørstad		1956b
ANTIDESMA GHAESEMBELLA Gaertn.			
Rust	<i>Crossospora antidesmae-dioicae</i> (Racib.) Arth. & Cumm.		One record ; Cummins 1941b

ANTIRRHINUM sp.		
Leaf spot	<i>Phyllosticta antirrhini</i> Sydow	Two records ; 924 D.S.
APLUDA MUTICA L.		
Rust	<i>Uromyces inayati</i> Sydow (heavily parasitized by <i>Eudarluca australis</i> Speg. ; pycnidial state <i>Darluca filum</i> Cast. only)	One record ; 1915 D.S.
Rust	<i>Uromyces schoenanthi</i> Sydow As <i>U. apludae</i> Sydow & Butler	One record ; Cummins 1941b, 1956b
Leaf spot		Two records ; 1289 D.S.
ARACHIS HYPOGAEA L.	Peanut	
Associated with collar rot	{ <i>Aspergillus niger</i> van Tiegh. <i>Botryodiplodia theobromae</i> Pat.	Several records ; 2094 D.S. Three records ; 1538 D.S.
Leaf spot	<i>Mycosphaerella arachidicola</i> W. A. Jenkins (asexual state <i>Cercospora arachidicola</i> Hori only)	Several records ; 3209 D.S.
Leaf spot	<i>Mycosphaerella berkeleyi</i> Jenkins (asexual state <i>Cercospora personata</i> (Berk. & Curt.) Ell. & Ev. only) As <i>Septogloem arachidis</i> Racib.	Listed Dumbleton 1954 Many records ; 454 D.S. Several records ; 356 D.S. Two records ; 1207 D.S. Recorded ; van Velsen 1961
Wilt and collar rot	<i>Sclerotium rolfsii</i> Sacc.	
Leaf mottle	Marginal leaf chlorosis virus	
ARALIA sp.		
Leaf spot	<i>Cercospora panacis</i> Thirumalachar & Chupp	One record ; 495 D.S.
Associated with angular leaf spot	<i>Colletotrichum</i> sp.	Several records ; 1516 D.S.
Sooty mould	<i>Meliola schefflerae</i> Hansf.	One record ; 645 D.S.
Leaf spot		One record ; 1379.2 D.S.
Algal spot	<i>Cephaleuros virescens</i> Kunze	One record ; 646 D.S.
ARAUCARIA CUNNINGHAMII L.	Hoop pine	
Root rot	Probably <i>Fomes noxius</i> Corner (no fructifications on standing trees, but <i>F. noxius</i> brackets on dead Hoop pines and stumps)	Several records ; 2970 D.S.
On old stump	<i>Ganoderma applanatum</i> (Pers.) Pat. var <i>philippinense</i> Humphrey	One record ; 3129 D.S.
ARAUCARIA HUNSTEINII K. Schum.	Klinkii pine	
On seeds	<i>Botryodiplodia theobromae</i> Pat.	Several records ; 2375b D.S.
Seedling wilt	<i>Fusarium</i> sp.	One record ; 2375c D.S.
Leaf blotch	<i>Pestalotiopsis versicolor</i> (Speg.) Steyaert	Two records ; 937 D.S.
On seeds	<i>Pestalotiopsis</i> sp.	Several records ; 287 D.S.
Leaf spot		Two records ; 1563 D.S.
Sooty mould	(Material sterile)	One record ; 3111 D.S.
Algal spot	<i>Phycopeltis</i> sp.	One record ; 2589 D.S.
ARECA CATECHU L.	Betel Nut Palm	
Black leaf mould	<i>Brachysporium arecae</i> (Berk. & Br.) Sacc.	One record ; 2602a D.S.
Associated with leaf spot	{ <i>Gloeosporium catechu</i> Sydow <i>Graphium</i> sp.	One record ; 2602b D.S. One record ; 311 D.S.
Leaf spot		One record ; 1158 D.S.
ARECA RECHINGERIANA		
On fruit	<i>Botryodiplodia palmarum</i> (Cooke) Petrak & Sydow As <i>Macrophoma palmarum</i> Berl. & Vogl	One record ; von Keissler 1910, Dwyer 1937a
On fruit	<i>Hainesia palmarum</i> Keissl.	One record ; von Keissler 1910
ARISTOLOCHIA sp.		
Rust	<i>Aecidium innumptum</i> Cummins	One record ; Cummins 1941c
Rust	<i>Uredo</i> sp.	One record ; 2174 D.S.

ARTHRAOXON HISPIDUS (Thunb.) Merrill		
Rust	<i>Puccinia arthraoxonis-ciliaris</i> Cummins As <i>Uredo arthraoxonis-ciliaris</i> P. Henn. in Cummins 1941b	Several records; Cummins 1941b, 1953
ARTOCARPUS INCISUS L.f.	Breadfruit	
Leaf spot	<i>Cercospora artocarpi</i> H. & P. Sydow	One record; 2946 D.S.
ARTOCARPUS sp.		
Rust	<i>Uredo artocarpi</i> Berk. & Br.	Several records; Cummins 1940
ARUNDINELLA SETOSA Trin.		
Tar spot	<i>Phyllachora</i> sp.	One record; 2798b D.S.
Leaf spot		One record; 2798a D.S.
ASTER sp.		
Leaf spot		One record; 897 D.S.
AVENA SATIVA L.	Oats	
Loose smut	<i>Ustilago avenae</i> (Pers.) Rostr.	One record; 2238 D.S.
AVERRHOA CARAMBOLA L.		
Leaf spot		One record; 3297 D.S.
BAMBUSA sp.		
Leaf blotch	<i>Trematosphaerella bambusae</i> (Miyake and Hara) Hino & Katumoto	One record; 3026 D.S.
On old stems	<i>Papularia arundinis</i> (Corda) Fr.	One record; 2071 D.S.
On dry stem	<i>Gaeumannia calospora</i> (Speg.) Petr. As <i>Venturia calospora</i> (Speg.) Höhnelt	One record; Sydow 1917
BANKSIA DENTATA L.		
Sooty mould	<i>Acanthostigma</i> sp.	One record; 830c D.S.
Sooty mould	<i>Asterina papuensis</i> Hansf.	One record; Hansford 1957 (830a D.S.)
Sooty mould	<i>Meliola banksiae</i> Hansf.	One record; Hansford 1958, 1961 (830b D.S. Type)
Leaf spot		Two records; 408 & 829 D.S.
BAUHINIA sp.		
Leaf spot		One record; 2795 D.S.
Dark brown brittle collar crust		One record; 2266 D.S.
BEGONIA sp.		
Stem blight	<i>Pellicularia filamentosa</i> (Pat.) Rogers (syn. <i>Corticium solani</i> (Prill. & Delacr.) Bourd. & Galz.) (mycelial state <i>Rhizoctonia solani</i> Kühn only)	One record; 3684 D.S.
Root knot	<i>Meloidogyne incognita</i> var. <i>acrita</i> Chitwood	One record; 3066 D.S.
BETA VULGARIS L.	Beetroot and Silver beet	
Leaf spot	<i>Cercospora beticola</i> Sacc.	Several records; 202 D.S.
Blossom blight	<i>Choanephora cucurbitarum</i> (Berk. & Rav.) Thaxter	Two records; 1442 D.S.
Root knot	<i>Meloidogyne incognita</i> var. <i>acrita</i> Chitwood	Two records; 2932 D.S.
Root knot	<i>Meloidogyne</i> sp.	One record; Thrower 1958 One record; 3470 D.S.
BIDENS PILOSA L.	Devil's Pitchfork	
Leaf spot	<i>Cercospora bidentis</i> Tharp	Two records; 2268 D.S.
Leaf smut	<i>Entyloma bidentis</i> P. Henn.	One record; 3210 D.S.
Rust	<i>Uromyces bidenticola</i> (P. Henn.) Arth.	One record; Cummins 1940 Several records; 107 D.S.
BIGNONIACEAE		
On leaves	<i>Balladyna ledermannii</i> Syd.	One record; Sydow 1917

BLUMEA HIERACIFOLIA D.C.		
Rust	<i>Accidium papuanum</i> Cummins	One record ; Cummins 1941b
BLUMEA sp.		
Rust	<i>Accidium blumeae</i> P. Henn.	One record ; Cummins 1941b
BOEHMERIA sp.		
Rust	<i>Pucciniastrum boehmeriae</i> (Dietel) Sydow	Several records ; Cummins 1941b
BOERHAAVIA DIFFUSA L.		
White rust	<i>Albugo platensis</i> (Speg.) Swing.	Two records ; 2987 D.S.
BOTHRIODILOA INTERMEDIA (R. Br.) A. Camus		
Rust	<i>Puccinia nakanishikii</i> Diet.	One record ; 1273 D.S.
Smut	<i>Sphacelotheca macalpineae</i> Zundel	One record ; 2693 D.S.
BRACHYPODIUM LONGISETUM Hitchc.		
Rust	<i>Puccinia recondita</i> Rob. ex Desm. As <i>P. rubrigo-vera</i> (D.C.) Wint. in Cummins 1941b	Two records ; Cummins 1941b, 1956b
BRASSAIA ACTINOPHYLLA Endl. Queensland Umbrella Tree (Syn. <i>Schefflera actinophylla</i>)		
Leaf spot	<i>Mycosphaerella</i> sp.	Several records ; 2273 D.S.
BRASSICA CAMPESTRIS L. Turnip		
Leaf spot	<i>Alternaria brassicae</i> (Berk.) Sacc.	One record ; 891 D.S.
Black rot	<i>Xanthomonas campestris</i> (Pamm.) Dowson	Two records ; 871 D.S.
BRASSICA CHINENSIS L.		
Leaf spot		One record ; 1047 D.S.
BRASSICA OLERACEA		
Black rot	<i>Xanthomonas campestris</i> (Pamm.) Dowson	Listed Dumbleton 1954
BRASSICA OLERACEA L. var. BOTRYTIS L. Cauliflower		
Leaf spot	<i>Alternaria brassicicola</i> (Schw.) Wiltshire	One record ; 883 D.S.
Black rot	<i>Xanthomonas campestris</i> (Pamm.) Dowson	Several records ; 560 D.S.
Root knot	<i>Meloidogyne</i> sp.	One record ; 561 D.S.
BRASSICA OLERACEA L. var. CAPITATA L. Cabbage		
Black rot	<i>Xanthomonas campestris</i> (Pamm.) Dowson	Many records ; 75 D.S.
Root knot	<i>Meloidogyne incognita</i> var. <i>acrita</i> Chitwood	One record ; 3664 D.S.
BRASSICA OLERACEA L. GEMMIFERA Zenk Brussels Sprouts		
Leaf spot	<i>Alternaria brassicicola</i> (Schw.) Wiltshire	One record ; 893a D.S.
Black rot	<i>Xanthomonas campestris</i> (Pamm.) Dowson	One record ; 893b D.S.
BREYNIA sp.		
Rust	<i>Endophyllum emasculatum</i> Arth. & Cumm.	Several records ; Cummins 1941b
Rust	<i>Accidium breyniae</i> Sydow	Several records ; Cummins 1941b
BREYNIA (?) sp.		
Rust	<i>Ravenelia brevispora</i> Hirats. & Hash.	One record ; Cummins 1943
BROUSSONETIA PAPYRIFERA Vent. Tapa plant		
Leaf spot	<i>Myrothecium roridum</i> Tode ex Fries	One record ; 620 D.S.
Large leaf spot		One record ; 1327 D.S.
BUCHNERA cf. URTICIFOLIA R. Br.		
Rust	<i>Puccinia buchnerae</i> Cummins As <i>Uredo cumula</i> Arth. in Cummins 1940	Two records ; Cummins 1940, 1941c

CAJANUS CAJAN (L.) Millsp.	Pigeon Pea	
Leaf spot	<i>Mycovellosiella cajani</i> (P. Henn.) Rangel ex Trotter (= <i>Cercospora cajani</i> P. Henn.)	One record ; 292 D.S.
Pink disease	<i>Corticium salmonicolor</i> Berk. & Br. (mycelial state only)	One record ; 443 D.S.
CALADIUM sp.		
Collar rot	<i>Sclerotium rolfsii</i> Sacc.	One record ; 2668 D.S.
CALAMAGROSTIS BRASSII Hitchc.		
Rust	<i>Puccinia pygmaea</i> Erikss.	One record ; Cummins 1941b
CALAMUS-LIKE PLANT		
	<i>Laschia</i> (<i>Favolaschia</i>) <i>ledermannii</i> Sydow	One record ; Sydow 1917
CALLIANDRA SURINAMENSIS Benth.		
Pink disease	<i>Corticium salmonicolor</i> Berk. & Br. (mycelial state only)	One record ; 3041 D.S.
CALLICARPA PEDUNCULATA R. Br.		
Rust	<i>Uredo callicarpa</i> Petch.	Several records ; Cummins 1940
CALLISTEMON LANCEOLATA D.C.		
Leaf spot		One record ; 123 D.S.
CALOPOGONIUM MUCUNOIDES Desv.		
Mosaic	Centrosema mosaic virus	Recorded van Velsen & Crowley 1961
Root knot	<i>Meloidogyne</i> sp.	One record ; 2619 D.S.
CALOTROPUS GIGANTEA L.		
Sooty mould	Capnodiaceae (immature)	One record ; 1742 D.S.
Leaf spot	<i>Colletotrichum</i> sp.	One record ; 2295 D.S.
CAMELLIA SINENSIS (L.) Kuntze Tea		
Leaf spot	<i>Armillaria mellea</i> (Vahl ex Fr.) Kummer <i>Ascochyta</i> sp.	Listed Dumbleton 1954 One record ; 3077a D.S.
Brown blight	<i>Botryodiplodia theobromae</i> Pat. <i>Colletotrichum camelliae</i> Masee <i>Corticium salmonicolor</i> Berk. & Br. <i>Fomes lignosus</i> (Klotzsch) Bres. As <i>Leptoporus lignosus</i> (Klotzsch) Heim ex Pat.	Listed Dumbleton 1954 Several records ; 1794 D.S. Listed Dumbleton 1954 Listed Dumbleton 1954
Grey blight	<i>Pestalotiopsis theae</i> (Saw.) Steyaert <i>Sclerotium rolfsii</i> Sacc. As <i>Sclerotium zeylanicum</i> (B. & Br.) Petch ¹ <i>Ustilina deusta</i> (Hoffm. ex Fr.) Petrak	Listed Dumbleton 1954 One record ; 150 D.S. Listed Dumbleton 1954 Listed Dumbleton 1954 One record ; 2102 D.S. One record ; 955 D.S. Several records ; 1796 D.S. Two records ; 387 D.S.
Scab-like symptoms		
Interveinal grey leaf		
Shiny black spots on leaves		
Algal spot	<i>Cephaleuros virescens</i> Kunze	
CANARIUM sp.		
Rust	<i>Skierka clemensiae</i> Cummins	One record ; Cummins 1941b
CANAVALIA ENSIFORMIS D.C. Jack Bean		
Leaves reduced in size with distortion	Probably virus	One record ; 2694 D.S.
CANNA INDICA L.		
Rust	<i>Uredo pseudocannae</i> Cummins	One record ; Cummins 1941c
Mosaic	Virus	One record ; Magee 1954b

¹ Refer Park, M., 1932, "*Tuber zeylanicum* B. & Br. and *Sclerotium rolfsii* Sacc." *Trans. Br. myc. Soc.* 17 : 179-181, for discussion.

CAPILLIPEDIUM PARVIFLORUM (R. Br.) Stapf (Syn. **Andropogon micranthus**)

Associated with *Sphacelia* sp. *Cerebella* sp. One record ; Langdon 1948
 Tar spot *Phyllachora assimilis* Theiss. & Sydow One record ; 170 D.S.
Sphacelia sp. One record ; Langdon 1948

CAPILLIPEDIUM sp.

Associated with *Sphacelia* sp. *Cerebella* sp. One record ; Langdon 1948
Sphacelia sp. One record ; Langdon 1948

CAPSICUM ANNUUM L. Chili

Fruit rot *Glomerella cingulata* (Stonem.) Spauld. & Schrenk One record ; 3485 D.S.
 (Asexual state only)
 Leaf distortion and dwarfing Probably virus One record ; 2001 D.S.
 Root knot *Meloidogyne incognita* var. *acrita* Chitwood One record ; Thrower 1958

CAPSICUM sp. Ornamental

Grey felt fungus, parasitic on coccids, *Pseudalaucaopsis pentagona* (Tang.) *Septobasidium* sp. One record ; 3182 D.S.

CAREX INDICA L.

Rust *Puccinia indotata* Cummins One record ; Cummins 1941a

CAREX SARAWAKETENSIS Kukenth.

Rust *Puccinia conquistata* Cummins One record ; Cummins 1941a

CAREX aff. **SECTA** Boott

Rust *Puccinia extensicola* Plowr. Two records ; Cummins 1941a

CAREX sp.

Rust *Puccinia indotata* Cummins Three records ; Cummins 1941a

CARICA PAPAYA L. Papaw

On old stems *Botryodiplodia theobromae* Pat. One record ; 2264 D.S.
 On freshly cut leaves *Choanephora cucurbitarum* (Berk. & Rav.) Thaxter One record ; 2588 D.S.
 Leaf spot *Corynespora cassicola* (Berk. & Curt.) Wei Many records ; 565 D.S.
 Sooty mould "*Fumago vagans* Pers." (after Hansford) One record ; 2261 D.S.
 On old petioles *Glomerella cingulata* (Stonem.) Spauld. & Schrenk One record ; 2097a D.S.
 (Asexual state *Colletotrichum* sp. only)
 On old petioles *Leptosphaeria* sp. One record ; 2097b D.S.
 Powdery mildew *Oidium* sp. Four records ; 3512 D.S.
 Scab-like lesions Three records ; 2481 D.S.
 Reduced leaves Perhaps virus Three records ; 2261 D.S.
 Mild mosaic Virus One record ; Magee 1954b
 Root knot *Meloidogyne javanica* Chitwood One record ; Thrower 1958
 Root knot *Meloidogyne* sp. One record ; Dwyer 1940
 As *Heterodera radiculicola*

CARPODETUS sp.

Black plaques on leaves One record ; 1890 D.S.

CASSIA OCCIDENTALIS L.

Mosaic Probably virus One record ; 2701 D.S.
 Mosaic *Cassia mosaic virus* Recorded van Velsen 1961c

CASSIA TORA L.

Mosaic *Cassia mosaic virus* Recorded van Velsen 1961c

CASSIA sp.			
Pink disease	<i>Corticium salmonicolor</i> Berk. & Br. (Mycelial state only)		One record ; 2775 D.S.
Brown crust at collar	Probably <i>Fomes noxius</i> Corner (No fruiting body present)		One record ; 2737a D.S.
On borer-riddled wood	<i>Trichothecium roseum</i> Link		One record ; 2747b D.S.
Rugosity and distortion of leaves	Probably virus		Several records ; D.S.
CASTANOPSIS sp.			
Shiny brown spot			One record ; 1708 D.S.
CASUARINA EUISETIFOLIA L.			
Sooty mould	<i>Capnodium elegans</i> L. Fraser		One record ; 1657 D.S.
Root rot	<i>Ganoderma</i> sp.		Three records ; 2769 D.S.
CEIBA PENTANDRA Gaertn.	Kapok		
Leaf spot	<i>Cercospora italica</i> Curzi		One record ; 1504 D.S.
Leaf spot			Two records ; 1174 D.S.
CELOSIA ARGENTEA (L.) Lautb. & K. Schum.			
Leaf spot	<i>Alternaria</i> sp. (not <i>A. celosiae</i>)		Several records ; 2826 D.S.
CELOSIA CRISTATA L.			
Root knot	<i>Meloidogyne</i> sp.		One record ; 703 D.S.
CENCHRUS ECHINATUS L.			
Leaf spot	<i>Pyricularia grisea</i> (Cooke) Sacc.		Several records ; 670 D.S.
CENTROSEMA PLUMIERI (Turp.) Benth.			
Mosaic	Virus		One record ; Magee 1954b
CENTROSEMA PUBESCENS Benth.			
Leaf spot	<i>Cercospora bradburyae</i> Young		Many records ; 605 D.S.
Leaf blight	<i>Pellicularia filamentosa</i> (Pat.) Rogers (syn. <i>Corticium solani</i> (Prill. & Delacr.) Bourd. & Galz.) (mycelial state <i>Rhizoctonia solani</i> Kühn only)		One record ; 2916 D.S.
Mosaic	Virus Centrosema mosaic virus		Many records ; D.S. Recorded van Velsen & Crowley 1961
CENTROSEMA sp.			
Mosaic	Virus		Listed Dumbleton 1954
CERASTIUM probably PAPUANUM Schltr.			
Rust	<i>Uredo morobensis</i> Cummins		Three records ; Cummins 1940
CHRYSANTHEMUM CINERARIIFOLIUM (Trev.) Bocc. Pyrethrum			
On wilted heads	<i>Phyllosticta</i> sp.		One record ; 2421 D.S.
CHRYSANTHEMUM sp.			
Leaf nematode	<i>Aphelenchoides ritzema-bosi</i> Schwartz		One record ; 559 D.S.
CICHORIUM ENDIVIA L. Endive			
Leaf spot	<i>Alternaria cichorii</i> Nattrass		One record ; 1812 D.S.
CICHORIUM INTYBUS L. Chickory			
Leaf spot	<i>Alternaria cichorii</i> Nattrass		One record ; 1821 D.S.
CINCHONA SUCCIRUBRA Pav.			
Leaf spots			Two records ; 1792a D.S.
Algal spot	<i>Cephaleuros virescens</i> Kunze		One record ; 1788 D.S.
CITRULLUS VULGARIS Schrad. Watermelon			
Leaf spot	<i>Cercospora citrullina</i> Cooke		Several records ; 766 D.S.
Powdery mildew	<i>Oidium</i> sp.		One record ; 2953 D.S.
Mosaic	Probably virus		Three records ; D.S.

CITRUS LIMON (Linn.) Burm.	Lemon	
Leaf spot	<i>Ascochyta citri</i> Penz.	One record ; 1654 D.S.
Scab	<i>Elsinoe fawcettii</i> Bitanc. & Jenk. (Asexual state only)	Two records ; 1702 D.S.
Sooty mould		One record ; 1152 D.S.
Leaf spot		One record ; 1291 D.S.
Black speckles on undersurface		Three records ; 1233 D.S.
Bacterial canker	<i>Xanthomonas citri</i> (Hasse) Dowson	Two records ; D.S.
CITRUS MEDICA L.	Citron	
Scab	<i>Elsinoe fawcettii</i> Bitanc. & Jenk. (Asexual state only)	One record ; 1236 D.S.
Algal spot	<i>Cephaleuros virescens</i> Kunze	One record ; 1234 D.S.
CITRUS PARADISI Macf.	Grapefruit	
Associated with leaf spot	<i>Glomerella cingulata</i> (Stonem.) Spauld. & Schrenk (conidial state <i>Colletotrichum gloeosporioides</i> (Penz.) Sacc. only)	One record ; 1653a D.S.
Bacterial canker	<i>Xanthomonas citri</i> (Hasse) Dowson	One record ; 1771 D.S.
CITRUS RETICULATA Blanco	Mandarin	
Sooty mould	<i>Meliola citricola</i> Syd.	One record ; 1939 D.S.
Pink incrustation on stems	<i>Podonectria</i> sp.	One record ; 2310 D.S.
Grey felt fungus parasitic on insects	<i>Septobasidium</i> sp.	One record ; 1386 D.S.
CITRUS SINENSIS (Linn.) Osbeck	Orange	
Pink disease	<i>Corticium salmonicolor</i> Berk. & Br. (Mycelial state only)	One record ; 2763 D.S.
Sooty mould		Two records ; D.S.
CITRUS spp.		
Leaf spots	<i>Ascochyta</i> sp. <i>Botryodiplodia theobromae</i> Pat. <i>Botryodiplodia</i> sp.	Three records ; 196a D.S. Listed Dumbleton 1954 Listed Dumbleton 1954
Pink disease	<i>Corticium salmonicolor</i> Berk. & Br. (Mycelial state only)	Many records ; 2003 D.S.
On old wood	<i>Daldinia concentrica</i> (Fr.) Ces. & De Not.	One record ; D.S.
On old wood	<i>Diaporthe citri</i> Wolf As <i>Phomopsis citri</i> Fawcett	Listed Dumbleton 1954
Scab	<i>Didymella citri</i> Noack <i>Elsinoe fawcettii</i> Bitanc. & Jenk. (Asexual state only)	Listed Dumbleton 1954 Many records ; 2973 D.S.
Associated with leaf spot	<i>Fusarium lateritium</i> Nees ex Fr. " <i>Gloeosporium fawcetti</i> " (This name appears to be incorrect)	Listed Dumbleton 1954 Listed Dumbleton 1954
On dead branches	<i>Glomerella cingulata</i> (Stonem.) Spauld. & Schrenk (conidial state <i>Colletotrichum gloeosporioides</i> (Penz.) Sacc. only)	Two records ; 196b D.S.
Sooty mould	<i>Hysterium citri</i> P. Henn. <i>Meliola citricola</i> Sydow (<i>Meliola penzigii</i> Sacc. As <i>M. penzigi</i> Sacc. Hansford (1961) has excluded this species from <i>Meliola</i>)	One record ; Hennings 1894 Several records ; 190 D.S. Listed Dumbleton 1954
On bark	<i>Penicillium digitatum</i> Sacc. <i>Penicillium italicum</i> Wehm. <i>Phytophthora parasitica</i> Dastur <i>Phytophthora</i> sp. <i>Thyronectria pseudotrichia</i> (Schw.) Seeler <i>Ustilina deusta</i> (Hoffm. ex Fr.) Petrak	Listed Dumbleton 1954 Listed Dumbleton 1954 Listed Dumbleton 1954 Listed Dumbleton 1954 One record ; 193 D.S. Listed Dumbleton 1954 Several records ; 204 D.S.
Sooty moulds	<i>Myriangiium</i> sp. (?)	One record ; 2061b D.S.
Parasitic on insects	<i>Pseudomicrocera henningsii</i> (Koord.) Petch	One record ; 2374 D.S.
Parasitic on white scale	<i>Septobasidium</i> sp.	Three records ; 2006 D.S.
Grey felt fungus parasitic on insects		
Algal spot	<i>Cephaleuros virescens</i> Kunze	Several records ; 294 D.S.
Bacterial canker	<i>Xanthomonas citri</i> (Hasse) Dowson	Listed Dumbleton 1954 Many records ; 24 D.S.
CLEMATIS sp. probably PAPUASICA		
Rust	<i>Aecidium papuasicum</i> Cummins	One record ; Cummins 1943

CLEMATIS sp. probably PAPUASICA Merr. & Perry var. PUBESCENS		
Rust	<i>Aecidium magnipycnium</i> Cummins	Three records ; Cummins 1943
CLEMATIS sp.		
Rust	<i>Puccinia exhausta</i> Dietel	Two records ; Cummins 1941b
CLEOME sp.		
White rust	<i>Albugo candida</i> (Pers. ex Hooker) O. Kuntze	Two records ; 393 D.S.
CLERODENDRON INERME (L.) Gaertn.		
Leaf spot	<i>Cercospora kashotoensis</i> Yamamoto	One record ; 2796 D.S.
Rust	<i>Puccinia erebia</i> Sydow	One record ; 2956 D.S.
CLITORIA TERNATEA L.		
Leaf spot	<i>Cercospora ternateae</i> Petch.	Several records ; 715 D.S.
Minor and doubtful mosaic symptoms	Perhaps virus	One record ; Magee 1954b
Rugosity and mosaic	Probably virus	One record ; 3104 D.S.
CLYMENIA POLYANDRA (Tanaka) Swingle		
Scab	<i>Elsinoe fawcettii</i> Bitanc. & Jenk. (Asexual state only)	One record ; 2647 D.S.
COCHLOSPERMUM GILLIVRAYI Bth. Yellow-flowered kapok		
Leaf spot		One record ; 1750 D.S.
COCOS NUCIFERA L. Coconut		
Sooty mould	(" <i>Anthostoma cocois</i> ", probably <i>Anthostoma cocoes</i> Höhnel)	Cited in error by Dwyer 1937a as a Reching record for New Guinea instead of Samoa
Associated with withered parts	<i>Botryodiplodia</i> sp. ?	Recorded Zimmer 1918
Ring disease of the nut	<i>Botryodiplodia</i> sp.	Mentioned Dwyer 1937b, 1939, 1940a, 1940b, 1953
Sooty mould	<i>Capnodium</i> sp. As <i>Capnodium</i> or <i>Meliola</i> sp.	Recorded Dwyer 1937b, 1953
Stem bleeding	<i>Ceratocystis paradoxa</i> (Dade) Moreau As <i>Thielaviopsis ethacetica</i> Dent As <i>Thielaviopsis paradoxa</i> (de Seynes) Höhnel	Mentioned Zimmer 1918 Mentioned as probable cause by Angell 1931
Stem bleeding also associated with lightning strike and bitter leaf	As <i>T. (Ceratostomella paradoxa and Thielaviopsis spp.)</i>	Recorded Dwyer 1937a, 1937b, 1940a, 1940b, 1953
Sooty mould	<i>Chaetothyrium</i> sp.	One record ; 2518a D.S.
Black leaf mould	<i>Clasterosporium cocoicola</i> M. B. Ellis & D. Shaw	Two records ; Ellis 1959 (1630 D.S. Type & 1551 D.S.)
White thread blight	<i>Corticium penicillatum</i> Petch	One record ; 2288b D.S. Recorded Bryce 1924 Recorded Dwyer 1937b, 1940a, 1953
Leaf spot	Mycelial state	Many records ; 1181 D.S.
Leaf spot	Dothideales (pycnidial state only)	One record ; 2858b D.S.
Root rot	<i>Epicoccum cocos</i> F. L. Stevens <i>Fomes lignosus</i> (Klotzsch) Bres. As <i>F. lignosus</i> Klotzsch As <i>Fomes lignosus</i> = <i>Rigidoporus microporus</i> As <i>Leptoporus lignosus</i>	Several records ; 2858 D.S. Recorded Bryce 1924 Recorded Dwyer 1937b, 1953 Listed Dumbleton 1954
Brown root rot	<i>Fomes noxius</i> Corner As " <i>Fomes lamaoensis</i> Murr." (but referring to a pathogenic fungus)	Mentioned Bryce 1924 Recorded Dwyer 1937b, 1953
On dead stems	<i>Fomes</i> sp.	Recorded Dwyer 1937a
Associated with withered parts	<i>Fusarium</i> sp.	Mentioned Dwyer 1937b, 1939, 1940b, 1953
Associated with leaf spot	<i>Fusarium</i> sp.	One record ; 3411b D.S.
Root rot	<i>Ganoderma lucidum</i> (Leyss. ex Fr.) Karst. As <i>Fomes lucidus</i> (Leyss.) Fries As <i>Fomes lucidus-Ganoderma lucidum</i>	Recorded Bryce 1924 Recorded Dwyer 1937b, 1953
On lightning struck palm	<i>Ganoderma</i> sp.	One record ; 1962 D.S.

COCOS NUCIFERA L. Coconut—Continued

Associated with leaf spot	<i>Glomerella cingulata</i> (Stonem.) Spauld. & Schrenk	One record ; 3388c D.S.
Leaf spot	<i>Helminthosporium incurvatum</i> Bernard <i>Helminthosporium</i> sp. (<i>Macrophoma palmarum</i>)	One record ; 3388a D.S. Recorded Dwyer 1937a, 1937b, 1953 Apparently cited in error by Dwyer as a Reching record Listed Dumbleton 1954 (in error)
Root rot	(<i>Macrophomina phaseoli</i> - <i>Rhizoctonia bataticola</i> mentioned by Dwyer 1937b and 1953 as being recorded on coconuts in other countries)	
Stem disease	<i>Marasmius palmivorus</i> Sharples	Recorded Dwyer 1937a, 1937b, 1953
Sooty mould	<i>Meliola</i> sp. As <i>Meliola</i> or <i>Capnodium</i> sp.	Recorded Zimmer 1918 Recorded Dwyer 1937b, 1953 Recorded Dwyer 1937b, 1953
Associated with withered tip	<i>Nectria</i> sp.	Recorded Dwyer 1937b, 1953
Associated with leaf spot	<i>Pestalotiopsis japonica</i> (Syd.) Steyaert	One record ; 3131 D.S.
Leaf spot	<i>Pestalotiopsis palmarum</i> (Cooke) Steyaert As <i>Pestalozia palmarum</i> As <i>Pestalozzia palmarum</i>	One record ; Zimmer 1918 Recorded Dwyer 1937a, 1937b, 1939, 1940a, 1953 Many records ; 678 D.S. One record ; 363 D.S.
Associated with leaf spot	<i>Pestalotiopsis papposa</i> Steyaert	One record ; 2187 D.S.
Associated with leaf spot	<i>Pestalotiopsis stictica</i> (Berk. & Curt.) Steyaert	Three records ; 3240 D.S.
Associated with leaf blotch	<i>Pestalotiopsis</i> sp.	One record ; 1500b D.S.
Bud rot	<i>Physalospora</i> sp. <i>Phytophthora palmivora</i> (Butler) Butler As <i>P. faberi</i>	Recorded Bryce 1924 Recorded Dwyer 1940a, 1940b, 1953
On dead stems	<i>Polyporus</i> spp.	Recorded Dwyer 1937a, 1937b, 1953
Black mould on old nuts	<i>Scoptria chlorina</i> (Pat.) Petrak	One record ; 3424 D.S.
Black leaf mould	<i>Sporidesmium macrurum</i> (Sacc.) M. B. Ellis	Three records ; 2288b D.S.
Black leaf mould	<i>Xylohypha</i> sp.	Three records ; 2518d D.S.
Pink film on trunk	Alga	Two records ; 3370 D.S.
Bud rot	<i>Bacillus</i> sp. ? ¹	Recorded Zimmer 1918
Leaf blight	Bacterial ¹	Recorded Dwyer 1937b, 1953
Head droop and other abnormalities	Suspected virus diseases ¹	Recorded Dwyer 1937b, 1953

CODIAEUM VARIEGATUM Blume Croton

Associated with leaf spot	<i>Colletotrichum</i> sp.	One record ; 2158 D.S.
Sooty mould	<i>Asteridiella entebbeensis</i> (Hansf. & Stev.) Hans. var. <i>codiaei</i> Hansf. <i>Helminthosporium capense</i> Thuem.	One record ; Hansford 1958, 1961 (1204a D.S. Type) One record ; 1204b D.S.
Parasitic on <i>Asteridiella entebbeensis</i> var. <i>codiaei</i>	<i>Helminthosporium insigne</i> Sacc.	One record ; Hansford 1957,
Parasitic on <i>Asteridiella entebbeensis</i> var. <i>codiaei</i>	As <i>Atrichobotryum gorgoneum</i> Cif. in Hansford 1957	1204c D.S.

COFFEA ARABICA L. Arabica coffee

Mould on insect-injured berries	<i>Botrytis cinerea</i> Pers. ex Fries	One record ; 2687 D.S.
Leaf spot and berry spot	<i>Cercospora coffeicola</i> Berk. & Br.	Mentioned Barrie 1956 Many records ; 2245 D.S.
Sooty mould	<i>Chaetothyrium boedijnii</i> Hansf. (A glabrous form)	One record ; 1123 D.S.
Associated with die-back	<i>Colletotrichum</i> sp.	One record ; 2207c D.S.
Pink disease	<i>Corticium salmonicolor</i> Berk. & Br. (Sexual state not observed ; conidial state "Necator decretus Mass." recorded several times)	Many records ; 2245 D.S.
White thread blight	Probably <i>Corticium</i> sp. or <i>Marasmius</i> sp. (Mycelial state only)	One record ; 2791 D.S.
Thread blight	<i>Pellicularia koleroga</i> Cooke (syn. <i>Corticium koleroga</i> (Cooke) Höhnel)	Several records ; 2314 D.S.
Associated with die-back	<i>Stachyliidium bicolor</i> Link ex Fries	One record ; 2207 D.S.
Large leaf blotches		Several records ; 2045 D.S.
Rust-coloured mycelium encrusting roots		Three records ; 1303 D.S.

¹ At present unconfirmed.

COFFEA CANEPHORA Pierre ex Froehner (Syn. Coffea robusta Linden)	Robusta coffee	
Sooty mould	Capnodiaceous perithecia	One record ; 3030a D.S.
On dead stem	<i>Cephalosporium</i> sp.	One record ; 2479b D.S.
Leaf spot	<i>Cercospora coffeicola</i> Berk. & Br.	One record ; 1680 D.S.
Pink disease	<i>Corticium salmonicolor</i> Berk. & Br. (Mycelial state only)	Several records ; 1218 D.S.
Root rots	<i>Fomes</i> spp.	Mentioned Cole 1960
Root rots		Several records ; 2433 D.S.
Sooty mould	<i>Microxyphium</i> sp.	Two records ; 1651b D.S.
Thread blight	<i>Pellicularia koleroga</i> Cooke (syn. <i>Corticium koleroga</i> (Cooke) Höhnel)	Mentioned Cole 1960
	<i>Scorias</i> sp.	Many records ; 1035 D.S.
Sooty mould	<i>Triposporium</i> sp.	One record ; 1651a D.S.
Sooty mould		One record ; 3030 D.S.
Leaf spots		Many records ; 731 D.S.
Zonate leaf spot		Two records ; 1579 D.S.
Sooty moulds		Two records ; 2511 D.S.
Parasitic on insects	<i>Hypocrella scutata</i> (Cooke) Sacc.	Several records ; 2452 D.S.
Algal spot	<i>Cephaleuros virescens</i> Kunze	One record ; 2255 D.S.

COFFEA ROBUSTA see **COFFEA CANEPHORA**

COFFEA spp.

	<i>Armillaria mellea</i> (Vahl ex Fr.) Kummer	Listed Dumbleton 1954
	<i>Botryodiplodia</i> sp.	Recorded Dwyer 1940b
	<i>Brachysporium</i> spp.	Listed Dumbleton 1954
	<i>Cercospora coffeicola</i> Berk. & Br.	Listed Dumbleton 1954
	<i>Corticium salmonicolor</i> Berk. & Br.	Listed Dumbleton 1954
	<i>Diplodia</i> sp.	Recorded Dwyer 1940b
	<i>Fomes lamaoensis</i> (Murr.) Sacc. & Trott.	Listed Dumbleton 1954
	As <i>Phellinus lamaoensis</i>	
Root rot	<i>Fomes lignosus</i> (Klotzsch) Bres.	
	As <i>Rigidoporus microporus</i> (Schwarz) van Overeem	Recorded Green 1938
	<i>Ganoderma subrugosum</i> Bres. & Pat.	Listed Dumbleton 1954
	<i>Helminthosporium</i> sp.	Listed Dumbleton 1954
	(<i>Hemileia vastatrix</i> recorded in 1903 (was obviously a misdetermination—it has not been found in any coffee areas since))	One record ; Anon. 1903
	<i>Pellicularia koleroga</i> Cooke	
	As <i>Corticium koleroga</i> (Cooke) Höhnel	Recorded Dwyer 1937a, 1940b
	<i>Pellicularia filamentosa</i> (Pat.) Rogers (syn.	Listed Dumbleton 1954
	<i>Corticium solani</i> (Prill. & Delacr.) Bourd. & Galz.) (mycelial state <i>Rhizoctonia solani</i> Kühn only)	
	<i>Polyporus coffeae</i>	Listed Dumbleton 1954
Fasciation of stems		One record ; 3633 D.S.

COIX LACHRYMA-JOBI L. Job's Tears

Leaf spot	<i>Cercospora</i> sp.	One record ; 555 D.S.
Tar spot	<i>Phyllachora coicis</i> P. Henn.	Three records ; 1382 D.S.
Tar spot	<i>Phyllachora graminis</i> Fuck.	One record ; von Keissler 1910
Rust	<i>Puccinia operta</i> Mundk. & Thirum. As <i>Uredo operta</i> Sydow & Butler	One record ; Cummins 1941c, 1956b
Leaf blotch		One record ; 2172 D.S.
Leaf galls	Presumably a virus, but not "Fiji" disease	One record ; Hughes 1953
Mosaic	Virus	Recorded by Brandes 1952 (cited by Hughes 1953)

COLEUS sp.

Wilt	<i>Pellicularia filamentosa</i> (Pat.) Rogers (syn. <i>Corticium solani</i> (Prill. & Delacr.) Bourd. & Galz.) (mycelial state <i>Rhizoctonia solani</i> Kühn only)	One record ; 2941 D.S.
Leaf spot		One record ; 1146 D.S.

COLOCASIA sp. Taro		
Blossom blight	<i>Choanephora cucurbitarum</i> (Berk. & Rav.) Thaxter	One record ; 353 D.S.
Diffuse mould on upper surface	<i>Cladosporium colocasiae</i> Sawada	Two records ; 2896 & D.S.
Leaf spot	<i>Phyllosticta</i> sp.	One record ; 1526 D.S.
Blight	<i>Phytophthora colocasiae</i> Rac.	Recorded Anon. 1953 Recorded Dwyer 1953 Many records ; 1165 D.S.
Associated with leaf spot	<i>Leptosphaerulina</i> sp.	One record ; 3039 D.S.
Diffuse yellow leaf spot	<i>Scolecobasidium</i> sp.	Several records ; 2825 D.S.
Acute and chronic forms of mosaic	Probably virus	Recorded Magee 1954b
Plants dwarfed with rolled leaves		Many records ; 2351 D.S.
COMMELINA sp. of C. BENGHALENSIS L.		
Rust	<i>Uromyces commelinae</i> Cooke	One record ; Cummins 1941b
COMMELINA sp.		
Rust	<i>Phakopsora tecta</i> Jackson & Holway	Two records ; Cummins 1940
COMMELINACEAE		
Rust	<i>Uromyces commelinae</i> Cooke	One record ; Cummins 1941b
CORCHORIS OLITORIUS L.	Jute	
Leaf spot	<i>Myrothecium roridum</i> Tode ex Fries	One record ; 472 D.S.
CORDIA DICHOTOMA Forst. f.		
Rust	<i>Aecidium morobeanum</i> Cummins	Several records ; Cummins 1941b
COSMOS SULPHUREUS Cav.	Golden Cosmos	
Fern leaf symptoms	Probably virus	One record ; 2000 D.S.
COSTUS sp.		
Rust	<i>Puccinia costina</i> Cummins	Three records ; Cummins 1941c
CRASSOCEPHALUM CREPIDOIDES (Benth.) S. Moore		
Leaf spot	<i>Cercospora</i> sp. nr. <i>C. bidentis</i> Tharp	Several records ; 105 D.S.
CRINUM ASIATICUM L.		
Rust	<i>Aecidium crini</i> Kalchbr.	Three records ; 2092 D.S.
CROTALARIA ANAGYROIDES H. B. & K.		
Zonate leaf spot	<i>Cephalosporium zonatum</i> Sawada (syn. <i>C. eichorniae</i> Padwick)	One record ; 2964 D.S.
Leaf spot	<i>Cercospora</i> sp.	Two records ; 453b D.S.
Blossom blight	<i>Cladosporium cladosporioides</i> (Fresen) de Fries	One record ; 2197 D.S.
Associated with leaf spot	<i>Corynespora cassicola</i> (Berk. & Curt.) Wei	Two records ; 444b D.S.
Pink disease	<i>Corticium salmonicolor</i> Berk. & Br. (sexual state not observed ; one record of conidial state " <i>Necator decretus</i> Mass.")	One record ; Green 1938 Many records ; 2663 D.S.
Associated with roots	<i>Fusarium oxysporum</i> Schlecth ex Fr. emend. Snyder & Hansen	One record ; 2441 D.S.
Associated with roots	<i>Fusarium solani</i> (Mart.) Sacc. emend. App. & Wollenw.	One record ; 2360 D.S.
Rust	<i>Maravalia crotalariae</i> Sydow	Many records ; 15 D.S.
On stem	<i>Paecilomyces</i> sp.	One record ; 479 D.S.
Leaf mould	<i>Parodiella hedysari</i> (Schw.) Hughes	One record ; 2764 D.S.
Associated with leaf spot	<i>Periconia byssoides</i> Pers. ex Schweinitz	Two records ; 444c D.S.
Collar rot	<i>Sclerotium rolfsii</i> Sacc.	One record ; 624 D.S.
Grey felt fungus parasitic on insects	<i>Septobasidium bogoriense</i> Pat.	Many records ; 2013 D.S.
Leaf spots		Several records ; 1656 D.S.
Woolly brown fungus on roots		Three records ; D.S.

CROTALARIA ANAGYROIDES. H. B. & K.—*Continued*

Sooty mould		One record ; 1124 D.S.
Fasciation		One record ; 1920 D.S.
Mosaic	Virus	Recorded Magee 1954
		Mentioned Barrie 1956
		Many records ; 1738 D.S.
	Centrosema mosaic	Recorded van Velsen and Crowley 1961
Witches broom	Possibly virus	One record ; 371 D.S.
CROTALARIA GOREENSIS Guill. & Perr.		
Associated with leaf spot	<i>Didymella</i> sp.	One record ; 453a D.S.
Collar rot	<i>Sclerotium rolfsii</i> Sacc.	One record ; 1317 D.S.
Mosaic	Virus	Three records ; D.S.
	Centrosema mosaic virus	Recorded van Velsen and Crowley 1961
CROTALARIA JUNCEA L.		
Leaf spot	<i>Cercospora canescens</i> Ell. & Mart.	One record ; 2114 D.S.
CROTALARIA MUCRONATA Desv. (as <i>C. striata</i>)		
Mosaic	Virus	Recorded ; Magee 1954b
CROTALARIA RETUSA L.		
Blossom blight	<i>Choanephora cucurbitarum</i> (Berk. & Rav.) Thaxter	One record ; 344 D.S.
Mosaic	Centrosema mosaic virus	Recorded by van Velsen and Crowley 1961
CROTALARIA STRIATA see CROTALARIA MUCRONATA		
CROTALARIA ZANZIBARICA Benth.		
Rust	<i>Maravalia crotalariae</i> Sydow	One record ; 3295 D.S.
CROTALARIA sp.		
Blossom blight	<i>Choanephora cucurbitarum</i> (Berk. & Rav.) Thaxter	One record ; 2060 D.S.
CUCUMIS MELO L. Sweet melon		
Powdery mildew	<i>Oidium</i> sp.	Two records ; 2258 D.S.
Downy mildew	<i>Pseudoperonospora cubensis</i> (Berk. & Curt.) Rostow.	Two records ; 2790 D.S.
Root knot	<i>Meloidogyne incognita</i> var. <i>acrita</i> Chitwood	One record ; 2931 D.S.
CUCUMIS SATIVUS L. Cucumber		
Powdery mildew	<i>Oidium</i> sp.	One record ; 2594 D.S.
Downy mildew	<i>Pseudoperonospora cubensis</i> (Berk. & Curt.) Rostow.	Many records ; 1237 D.S.
Root knot	<i>Meloidogyne</i> sp.	One record ; Thrower 1958
CUCURBITA MAXIMA Duchesne Golden crooked-neck squash		
Powdery mildew	<i>Oidium</i> sp.	One record ; 2424a D.S.
CUCURBITA MOSCHATA Duchene Native pumpkin		
Abnormal veins, distortion, etc.	Probably virus	One record ; 2803 D.S.
Mosaic	A strain of melon mosaic virus	Recorded van Velsen 1960
CUCURBITA PEPO L. Pumpkin		
Powdery mildew	<i>Oidium</i> sp.	Several records ; 1429 D.S.
Mosaic	Probably virus	Two records ; D.S.
Root knot	<i>Meloidogyne incognita</i> var. <i>acrita</i> Chitwood	One record ; Thrower 1958
CUCURBITA sp.		
Powdery mildew	<i>Oidium</i> sp.	One record ; 2890 D.S.
Downy mildew	<i>Pseudoperonospora cubensis</i> (Berk. & Curt.) Rostow.	One record ; 3745 D.S.

CUCURBITACEAE

- Powdery mildew *Oidium* sp. Listed Dumbleton 1954
As *Erysiphe cichoracearum* DC.
- CYANOTIS CAPITATA** (Bl.) C. B. Clarke
Rust *Uromyces cyanotidis* Cummins Three records ; Cummins 1941c
- CYBOPOGON CITRATUS** (DC.) Stapf
Rust *Puccinia nakanishikii* Diet. Several records ; Cummins 1941,
As *P. citrata* Sydow, Cummins 1941b 1953, 1956b
- CYBOPOGON EXULTATUS** R. Br.
Tar spot *Phyllachora* sp. One record ; 827b D.S.
Smut Unidentified at present One record ; 827a D.S.
- CYBOPOGON FLEXUOSUS** (Nees ex Steud.) Stapf
Rust *Puccinia nakanishikii* Diet. with hyper- Two records ; 625 D.S.
parasite *Eudarlucia australis* Speg. (asexual
state *Darlucia filum* Cast. only)
Leaf spot One record ; 966 D.S.
- CYBOPOGON SCHOENANTHUS** (L.) Spreng. (as **Andropogon schoenanthus**)
Rust *Uredo andropogonis-schoenanthi* P. Henn. One record ; Hennings 1894,
As *Uredo kaernbachii* P. Henn. in Hennings 1898a
1894
- CYNODON DACTYLON** L. Couch grass
False smut *Cerebella andropogonis* Ces. One record ; 951 D.S.
Rust *Puccinia cynodontis* Desm. One record ; Cummins 1941b,
As *P. cynodontis* Lacroix. in Cummins 1941b 1956b
Two records ; 855 D.S.
- CYPERUS ALTERNIFOLIUS** L. Dwarf papyrus grass
Associated with leaf blotch *Coniothyrium* sp. One record ; 3035a D.S.
Associated with leaf blotch *Nigrospora sphaerica* (Sacc.) Mason One record ; 3035b D.S.
Associated with leaf blotch *Tetraploa aristata* Berk. & Br. One record ; 3035c D.S.
- CYPERUS DIFFORMIS** L.
Rust *Puccinia romagnoliana* Maire & Sacc. One record ; Cummins 1941a
- CYPERUS ROTUNDUS** L. Nut grass
Smut *Contractia limitata* Clint. Three records ; 233 D.S.
Rust *Puccinia philippinensis* Sydow Two records ; 358 D.S.
Leaf spot One record ; 377 D.S.
- CYPERUS TENUICULMIS** Boeck.
Rust *Puccinia philippinensis* Sydow One record ; 1099 D.S.
- CYPERUS** aff. **CEPHALOTES** Vahl
Rust *Uredo dapsilis* Cummins Two records ; Cummins 1941a
- CYPHOMANDRA BETACEA** Sendt.
Root knot *Meloidogyne* sp. One record ; Thrower 1958
- DAHLIA VARIABILIS** (Willd.) Desv. Dahlia
Leaf spot *Entyloma dahliae* Sydow Several records ; 898 D.S.
Powdery mildew *Oidium* sp. One record ; 847 D.S.
Root knot *Meloidogyne* sp. One record ; Thrower 1958
- DAMMAROPSIS KINGIANA** Warb. (Syn. **Ficus dammaropsis** Diels.)
Sooty mould *Chaetothyrium boedijnii* Hansf. One record ; 1851 D.S.
- DAUCUS CAROTA** L. Carrot
Leaf spot *Alternaria dauci* (Kühn) Groves & Skolko Many records ; 734 D.S.
Root knot *Meloidogyne javanica* (Treb) Chitwood One record ; 3471 D.S.
Root knot *Meloidogyne* sp. One record ; 563 D.S.
One record ; Thrower 1958

DEERINGIA sp. (as DEERINGA sp.)		
Rust	<i>Puccinia eluta</i> Cummins	Two records ; Cummins 1941b
DELONIX REGIA (Boj.) Raf.	Poinciana	
Root rot	<i>Ganoderma lucidum</i> (Leys. ex Fr.) Karst.	Many records ; 361 D.S.
Minor and doubtful mosaic symptoms	Perhaps virus	One record ; Magee 1954b
DENDROBIUM sp. ?		
On leaves	<i>Botryodiplodia oncidii</i> (P. Henn.) Petrak & Sydow	One record ; von Keissler 1910
On leaves	As <i>Macrophoma oncidii</i> P. Henn. <i>Gloeosporium cinctum</i> Berk. & Br.	One record ; von Keissler 1910
DERRIS sp.		
Rust	<i>Cerotelium morobeanum</i> Cummins	Two records ; Cummins 1941b
On pods (but perhaps parasitic on scale insects)	<i>Fusarium derridis</i> P. Henn.	One record ; Hennings 1902, 1905
DESCHAMPSIA KLOSSII Ridl.		
Rust	<i>Puccinia deschampsiae</i> Arth. As <i>P. airiae</i> (Lagerh.) Cruchet & Mayor in Cummins 1941b	One record ; Cummins 1941b, 1956b
DESMODIUM DISTORTUM (Aubl.) Macbride		
Mosaic	Centrosema mosaic virus	Recorded van Velsen & Crowley 1961
DESMODIUM SEQUAX Wall.		
Sooty mould		One record ; 119 D.S.
DESMODIUM TORTUOSUM DC.		
Leaf spot	<i>Cercospora canescens</i> Ell. & Mart.	One record ; 2862 D.S.
DESMODIUM TRIFLORUM DC.		
Slime mould	<i>Physarum cinereum</i> (Batsch) Pers.	One record ; 3462 D.S.
Leaf blotch		One record ; 702 D.S.
DESMODIUM sp.		
Rust	<i>Phakopsora meibomiaae</i> Arth.	Two records ; Cummins 1943
Sooty mould	<i>Meliola bicornis</i> Wint.	One record ; 827 D.S.
Mosaic	Probably virus	One record ; Magee 1954b
		Two records ; 19 D.S.
DIANTHUS CARYOPHYLLUS L. Carnation		
Collar rot	<i>Sclerotium rolfsii</i> Sacc.	One record ; 1914 D.S.
Leaf spot	<i>Septoria dianthi</i> Desm.	Two records ; 99 D.S.
DICHROCEPHALA LATIFOLIA DC.		
Rust	<i>Aecidium matapense</i> Cummins	One record ; Cummins 1941c
DICHROCEPHALA sp.		
Rust	<i>Aecidium dichrocephalae</i> P. Henn.	One record ; Cummins 1941c
DIGITARIA ADSCENDENS (H.B.K.) Henrard		
Rust	<i>Puccinia oahuensis</i> Ell. & Ev. As <i>P. digitariae</i> Pole Evans	Recorded ; Langdon 1948
DIGITARIA CALEDONICA Heward		
Rust	<i>Uromyces peglerae</i> Pole Evans (one with hyperparasite <i>Eudarlucula australis</i>) Speg. (pycnidial state <i>Darlucula filum</i> Cast. only)	Two records ; 1032 D.S.

DIGITARIA PERTENUIS Buse		
Rust	<i>Puccinia oahuensis</i> Ell. & Ev. As <i>P. digitariae</i> Pole Evans in Cummins 1941b	Two records; Cummins 1941b, 1943
DIGITARIA PRURIENS (Fisch.) Buse		
Rust	<i>Puccinia levis</i> (Sacc. & Bizz.) Magn.	One record; Cummins 1941b
Rust	<i>Puccinia oahuensis</i> Ell. & Ev. As <i>P. digitariae</i> Pole Evans in Cummins 1941b	One record; Cummins 1941b, 1943 One record; 42 D.S.
DIGITARIA VIOLASCENS Link.		
Associated with <i>Sphacelia</i> sp.	<i>Cerebella</i> sp.	Two records; Langdon 1948
Head choke	<i>Ephelis pallida</i> Pat.	One record; 2417 D.S.
	<i>Sphacelia</i> sp.	Two records; Langdon 1948
Rust	<i>Uromyces pegleriae</i> Pole Evans	One record; Cummins 1941b
DIGITARIA sp.		
Associated with <i>Sphacelia</i> sp.	<i>Cerebella</i> sp.	One record; Langdon 1948
Rust	<i>Puccinia oahuensis</i> Ell. & Ev. As <i>P. digitariae</i> Pole Evans in Cummins 1941b	One record; Cummins 1941b, 1943
	(One record hyperparasite <i>Eudarlucua australis</i> Speg., pycnidial state <i>Darlucua filum</i> Cast. only)	Two records; D.S.
	<i>Sphacelia</i> sp.	One record; Langdon 1948
DILLENIA sp.		
Leaf spot		One record; 1860 D.S.
DIMERIA CILIATA Merr.		
Head choke	<i>Ephelis pallida</i> Pat.	One record; 2883 D.S.
DIOSCOREA BULBIFERA L.	Yam	
Brown mould on leaf under- surface	<i>Cercospora ubi</i> Racib.	One record; 2908 D.S.
Rust	<i>Uredo dioscoreae-sativae</i> Sydow	One record; 2902 D.S.
DIOSCOREA ESCULENTA (Lour.) Burck. Yam		
Leaf spot	<i>Cylindrosporium dioscoreae</i> Miyabe & Ito	One record; 3257 D.S.
Leaf spot	<i>Gugnardia</i> sp.	One record; 2895 D.S.
Leaf spot	<i>Phyllosticta dioscoreae</i> Cooke	Two records; 3106 D.S.
Dark brown leaf blotch	<i>Xanthomonas</i> sp.	Two records; 3254 D.S.
Mosaic	Perhaps virus	One record; 302 D.S.
DIOSCOREA spp. Yams		
Leaf spot	<i>Gloeosporium pestis</i> Massee	One record; 1119 D.S.
Leaf spot	<i>Phyllosticta dioscoreae</i> Cooke	Several records; 665 D.S.
Rust	<i>Goplana dioscoreae</i> Cummins	One record; Cummins 1941b and validated 1960
		Two records; 1364 D.S.
Rust	<i>Uredo dioscoreae-sativae</i> Sydow	Two records; Cummins 1941b
Rust	<i>Uredo hiulca</i> Cummins	Three records; Cummins 1941b
Leaf spots		Several records; 300 D.S.
Blackening of veins		Two records; 3261 D.S.
Mosaic	Virus ?	One record; Magee 1954b
Nematodes	<i>Pratylenchus</i> sp. As <i>Anguillulina pratensis</i>	One record; Dwyer 1940
DISCHIDIA sp.		
Rust	<i>Uredo dischidiae</i> P. Henn.	One record; Hennings 1898a
DOLICHOS LABLAB L.		
Leaf spot	<i>Aschochyta dolichi</i> Fragoso	One record; 940 D.S.
Angular leaf spot	<i>Cercospora canescens</i> Ellis & Martin	One record; 2703 D.S.
Distortion and reduction of leaves	Probably virus	Two records; 2985 D.S.

DRYMARIA CORDATA Willd.		
Powdery mildew	<i>Leveillula taurica</i> (Lév.) Arn.	One record ; 3088 D.S.
DUNBARIA DISCOLOR Harms et K. Schum.		
Black plaques on leaves	<i>Aphysa philippinensis</i> (Yates) Sydow	One record ; 3021 D.S.
ECHINOCHLOA COLONUM (L.) Link		
Leaf spot	<i>Cercospora echinochloae</i> J. J. Davis	One record ; 2343 D.S.
ECHINOCHLOA CRUS-GALLI (L.) Beauv.		
Leaf spot	<i>Pyricularia grisea</i> (Cooke) Sacc.	One record ; 1231 D.S.
EHRETIA sp.		
Rust	<i>Phakopsora ehretiae</i> Hirats. As <i>Bubakia ehretiae</i> (Hirats.) S. Ito	Several records ; Cummins 1940
ELAEIS GUINEENSIS Jacq.	Oil palm	
Black leaf mould	<i>Brooksia tropicalis</i> Hansford	One record ; 2132 D.S.
ELAEOCARPUS sp.		
Rust	<i>Aecidium elaeocarpi</i> Racib.	One record ; Cummins 1941c
Rust	<i>Aecidium elaeocarpicola</i> Cummins	One record ; Cummins 1941c
Rust	<i>Aecidium morobense</i> Cummins	One record ; Cummins 1943
ELEOCHARIS LAXIFLORA (Thwaites) H. Pfeiff.		
Rust	<i>Puccinia exoptata</i> Cummins	One record ; Cummins 1941a
ELEUSINE INDICA (L.) Gaertn.		
False smut	<i>Cochliobolus nodulosus</i> Luttrell (asexual state <i>Helminthosporium nodulosum</i> (Berk. & Curt.) ex Sacc. only)	Two records ; 1557 D.S.
Leaf spot	<i>Pyricularia grisea</i> (Cooke) Sacc.	One record ; 274 D.S.
Collar rot	<i>Sclerotium volfsii</i> Sacc.	One record ; 2159 D.S.
EPILOBIUM sp.		
Rust	<i>Puccinia vagans</i> (DC.) Arth.	One record ; Cummins 1943
ERECHTITES HAPLOGYNUS (F. Muell.) Mattf. vel aff.		
Rust	<i>Uredo adapertilis</i> Cummins	Two records ; Cummins 1940
ERECHTITES VALERIANAEOFOLIA (Wolf) DC.		
Leaf spot	<i>Cercospora erechthitis</i> Atkinson	Two records ; 1786 D.S.
ERIANTHUS ARUNDINACEUS (Retz.) Jeswiet (as Saccharum arundinaceum)		
Smut	<i>Sorosporium papuae</i> (Zundel) Ling As <i>Sphacelotheca papuae</i> in Zundel	One record ; Zundel 1939, 1953 Ling 1949
ERIGERON SUMATRENSIS Retz.		
Rust	<i>Uredo erigerontis</i> Arth. & Cummins	One record ; Cummins 1941c
ERIOBOTRYA JAPONICA Lindl. Loquat		
Pink disease	<i>Corticium salmonicolor</i> Berk. & Br. (mycelial state only)	One record ; 3430 D.S.
ERYTHRINA sp.		
Rust	<i>Uredo erythrinae</i> P. Henn.	One record ; Cummins 1941b
ERYTHRINA INDICA Lam.		
Leaf spot	<i>Ascochyta erythrinae</i> Elisei	One record ; 1907 D.S.
Leaf spot	<i>Cercospora</i> sp.	One record ; 1331 D.S.
On old stem	<i>Exosporium inversum</i> (Sacc.) M. B. Ellis	One record ; 1802 D.S.
Sooty mould	<i>Meliola erythrinae</i> Syd.	Two records ; 607 D.S.
EUCALYPTUS DEGLUPTA Bl.		
Leaf spot	<i>Cercospora</i> sp.	One record ; 1788 D.S.

EUCALYPTUS PAPUANA F. v. M.

Sooty mould	<i>Capnodium</i> sp.	One record ; 1682a D.S.
Root rot	<i>Fomes</i> sp.	One record ; 2304 D.S.
Sooty mould	<i>Microxyphium</i> sp.	One record ; 1682b D.S.

EUCALYPTUS TERETICORNIS see **EUCALYPTUS UMBELLATA****EUCALYPTUS TORRELLEANA** F. v. M.

Brown leaf mould	<i>Biharia</i> sp.	One record ; 2034a D.S.
Brown leaf mould	<i>Sporidesmium eucalypti</i> M. B. Ellis & D. Shaw	One record ; Ellis 1959 (Type 2034b D.S.)

EUCALYPTUS UMBELLATA (Gaertn.) Domin. (Syn. **Eucalyptus tereticornis** Sm.)

Sooty mould	<i>Meliola densa</i> Cooke	One record ; 823 D.S.
Leaf spot	<i>Mycosphaerella molleriana</i> (Thüm.) Lindau	One record ; 831 D.S.

EUCALYPTUS sp.

Leaf spot		One record ; 406a D.S.
Sooty mould	<i>Meliola densa</i> Cooke	One record ; 406b D.S.

EUCHARIS sp.

Collar rot	<i>Sclerotium rolfsii</i> Sacc.	One record ; 187 D.S.
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EULALIA CILIATA see **MICROSTEGIUM CILIATUM****EULALIA (POLLINIA) FULVA** (R. Br.) O. Kuntze

Rust	<i>Uredo eulaliae-fulvae</i> Cummins	Several records ; Cummins 1943
Rust	<i>Uredo morbeana</i> Cummins	One record ; Cummins 1943

EULALIA spp.

Leaf streak and spots		Several records ; 171 D.S.
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EUPHORBIA HETEROPHYLLA L.

Powdery mildew	<i>Leveillula taurica</i> (Lév.) Arn.	Many records ; 2022 D.S.
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EUPHORBIA PULCHERRIMA Willd. Poinsettia

Sooty mould		One record ; 2036 D.S.
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EVODIA HORTENSIS Forst.

Sooty mould	<i>Meliola evodiae</i> Pat.	One record ; von Keissler 1910
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EVODIA sp.

Rust	<i>Puccinia evodiae</i> Cummins	One record ; Cummins 1941c
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FICUS CARICA L. Fig

Rust	<i>Cerotelium fici</i> (Cast.) Arth.	Two records ; 1246 D.S.
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FICUS DAMMAROPSIS see **DAMMAROPSIS KINGIANA****FICUS WASSA** Roxb.

Tar spot	<i>Phyllachora haernbachii</i> P. Henn.	Two records ; 2382 D.S.
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FICUS sp.

On leaves	<i>Asterina</i> sp.	One record ; von Keissler 1910
Rust	<i>Cerotelium fici</i> (Cast.) Arth.	Several records ; Cummins 1940
White thread blight	<i>Corticium</i> sp. or <i>Marasmius</i> sp. (mycelium only)	One record ; 2269 D.S.
Tar spot	<i>Phyllachora haernbachii</i> P. Henn.	Two records ; Hennings 1894, 1898a
Sooty mould	<i>Capnodium thuemenii</i> Sacc. As <i>Capnodium fuligo</i> Thuem.	One record ; v. Müller 1875, Saccardo 1882
Algal spot	<i>Cephaleuros</i> sp.	One record ; 3452 D.S.
(Probably parasitic on insects)	<i>Aschersonia novoguineensis</i> P. Henn.	One record ; Hennings 1898a

FIMBRISTYLIS ANNUA (All.) R. & S.		
Smut	<i>Cintractia axicola</i> (Berk.) Cornu	One record ; Zundel 1953 (only locality given is "New Guinea")
Rust	<i>Puccinia fimbristylidis</i> Arth.	Several records ; Cummins 1941a
FIMBRISTYLIS DICHOTOMA (L.) Vahl		
Smut	<i>Cintractia axicola</i> (Berk.) Cornu	One record ; Langdon 1948
Rust	<i>Puccinia fimbristylidis</i> Arth.	One record ; 516 D.S.
Rust	<i>Uredo</i> sp. with hyperparasite <i>Eudavluca australis</i> Speg. (asexual state <i>Darluca filum</i> Cast. only)	Two records ; 919 D.S.
		One record ; Langdon 1948
FINSCHIA CHLOROXANTHA Diels.		
Black mould	<i>Chaetothyrum fusisporum</i> Fraser	One record ; 2586c D.S.
Rust	<i>Puccinia finschiae</i> Cummins	One record ; Cummins 1961 (Type 2586b D.S.)
Black leaf mould and spots	<i>Stenella</i> sp.	Two records ; 2428 D.S.
FLAGELLARIA sp.		
On dry stems	<i>Cyphella villosa</i> (Pers.) Karst.	One record ; Sydow 1917
FLEMINGIA CONGESTA Roxb.		
Root knot	<i>Meloidogyne javanica</i> (Treub.) Chitwood	One record ; 3644 D.S.
FLEURYA INTERRUPTA Gaud.		
Rust	<i>Uredo fleuryae</i> Cumm.	One record ; Cummins 1960 (Type 2296 D.S.)
FLINDERSIA COLLINA Bail.		
Root knot	<i>Meloidogyne incognita</i> var. <i>acrita</i> Chitwood	One record ; 3544 D.S.
FRAGARIA sp. Strawberry		
Leaf spot	<i>Cercospora vexans</i> C. Massal	One record ; 3216 D.S.
Leaf blotch	<i>Diplocarpon earlianum</i> (Ell. & Ev.) Wolf	Several records ; 61 D.S.
Leaf spot	<i>Mycosphaerella fragariae</i> (Tul.) Lindau	Several records ; 864 D.S.
GARCINIA MANGOSTANA L. Mangosteen		
Leaf spot		One record ; 1753 D.S.
GARDENIA sp.		
Sooty mould	<i>Capnodium</i> sp. (immature)	One record ; 1857d D.S.
Sooty mould	<i>Chaetothyrum</i> sp.	One record ; 1857a D.S.
White thread blight	<i>Corticium</i> sp. or <i>Marasmius</i> sp. (mycelium only present)	Two records ; 1253 D.S.
Sooty mould	<i>Microxyphium</i> sp.	Two records ; 1783 D.S.
Sooty mould	<i>Tripospermum</i> sp.	One record ; 1857b D.S.
GENTIANA aff. ETTINGHAUSENII F. v. M.		
Rust	<i>Puccinia morobeana</i> Cummins	Two records ; Cummins 1940
GENTIANA near MACGREGORII Hemsl.		
Rust	<i>Puccinia morobeana</i> Cummins	Three records ; Cummins 1940
GERANIUM sp.		
Rust	<i>Puccinia geranii-pilosi</i> McAlp.	One record ; 1840 D.S.
GERBERA sp.		
Leaf spot	<i>Septoria gerberae</i> Sydow	Several records ; 1729 D.S.
Virescence of flowers	Virus	One record ; 429 D.S.
Root knot	<i>Meloidogyne</i> sp. As <i>Heterodera radiculicola</i>	Recorded ; Dwyer 1940

GLOCHIDION sp.

Rust	<i>Aecidium foederatum</i> Cummins	Two records ; Cummins 1940
Rust	<i>Crossopora clemensiae</i> Cummins	One record ; Cummins 1940
Rust	<i>Crossopora sawadae</i> (Sydow) Arth. & Cummins	Several records ; Cummins 1940
Rust	<i>Phakopsora formosana</i> Sydow	Two records ; Cummins 1941c

GLYCINE MAX (L.) Merr. Soy bean

Leaf spot	<i>Ascochyta</i> sp.	One record ; 1824 D.S.
Rust	<i>Phakopsora pachyrhizi</i> Sydow	Two records ; 2015 D.S.
Leaf distortion	Probably virus	Two records ; 2772 D.S.
Root knot	<i>Meloidogyne</i> sp.	One record ; 368 D.S.

GOSSYPIUM sp. Cotton

Leaf spot	<i>Ascochyta gossypii</i> Sydow	One record ; 843 D.S.
Associated with discoloured bolls	<i>Botryodiplodia theobromae</i> Pat.	Two records ; 2824 D.S.
Sooty mould	<i>Capnodium</i> sp.	One record ; Cummins 1941b
Leaf spot	<i>Cercospora gossypina</i> Cooke	One record ; 2363 D.S.
Blossom blight	<i>Choanephora cucurbitarum</i> (Berk. & Rav.) Thaxter	One record ; 2335b D.S.
Associated with discoloured bolls	<i>Fusarium</i> sp.	One record ; 3692a D.S.
Associated with discoloured bolls	<i>Pestalotiopsis</i> sp.	One record ; 3692c D.S.
Rust	<i>Phakopsora gossypii</i> (Arth.) Hirat. f. As <i>Kuehneola gossypii</i> Arth. As <i>Cerotelium desmium</i> (Berk. & Br.) Arth.	Recorded Sydow 1914 One record ; Cummins 1941b Several records ; 1450b D.S. Three records ; 961 D.S. Listed Dumbleton 1954
Leaf spots		
Angular leaf spot	<i>Xanthomonas malvacearum</i> (E. F. Smith) Dowson	

GOUANIA cf. **JAVANICA**

Rust	<i>Puccinia gouaniae-tiliaefoliae</i> Sydow	One record ; Cummins 1943
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GRAMINEAE

Infection of head	<i>Balansia claviceps</i> Speg.	One record ; 1469 D.S.
Sooty mould	<i>Caldariomyces fumago</i> Wor.	One record ; 2311 D.S.
Ergot	<i>Claviceps purpurea</i> (Fr.) Tul.	Listed Dumbleton 1954
Tar spot	<i>Phyllachora</i> sp.	One record ; 266 D.S.
Slime mould	<i>Physarum cinereum</i> (Batsch) Pers.	One record ; 3460 D.S.
Smut		One record ; 1287 D.S.

GREVILLEA ROBUSTA A. Cunn. Silky oak

Sooty mould	<i>Acanthostigma</i> sp.	One record ; 672b D.S.
Sooty mould	<i>Brooksia tropicalis</i> Hansf. (asexual state <i>Hiospira hendrickxii</i> (Hansf.) R. T. Royall (syn. <i>Helicosporium hendrickxii</i> Hansf.) only)	One record ; 672c D.S.
Pink disease	<i>Corticium salmonicolor</i> Berk. & Br.	One record ; 2690 D.S.
Sooty mould	<i>Meliola grevilleae</i> Hansf.	One record ; Hansford 1958, 1961 (672a D.S. Type)
On bark	<i>Nectria</i> sp.	One record ; 2704a D.S.
On bark	<i>Nectria</i> sp.	One record ; 2704b D.S.
On bark	<i>Nectria</i> sp.	One record ; 2704c D.S.
Sooty mould	<i>Shawiella grevilleae</i> Hansf.	One record ; Hansford 1957 (Type 672a D.S.)
Algal spot	<i>Cephaleuros virescens</i> Kunze	One record ; 1790 D.S.

GREVILLEA sp.

Sooty mould	<i>Brooksia tropicalis</i> Hansf.	One record ; 395a D.S.
Sooty mould	<i>Capnodium</i> sp. (close to <i>C. elegans</i> Fraser)	One record ; 395b D.S.

HALORAGIS MICRANTHA R. Br.

Rust	<i>Puccinia haloragidis</i> Sydow	Three records ; Cummins 1940
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HECATACTIS sp.

Rust	<i>Aecidium hecatactidis</i> Cummins	Three records ; Cummins 1940
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HEDYOTIS sp.		
Leaf spot	<i>Cercospora</i> sp.	One record ; 3090 D.S.
HELIANTHUS ANNUUS L.	Sunflower	
Root knot	<i>Meloidogyne javanica</i> (Treb.) Chitwood	One record ; 3386 D.S.
HELIANTHUS TUBEROSUS L.	Jerusalem artichoke	
Collar rot	<i>Sclerotium rolfsii</i> Sacc.	One record ; 3036 D.S.
HELICONIA sp.		
Leaf spot	<i>Septoria</i> sp.	One record ; 2529a D.S.
On insects	<i>Septobasidium</i> sp.	One record ; 2529b D.S.
HETEROPOGON CONTORTUS (L.) Beauv.		
False smut	<i>Cerebella andropogonis</i> Ces.	Three records ; 530 D.S.
Leaf stripe	<i>Curvularia trifolii</i> (Kauffm.) Boedijn	Two records ; 660 D.S.
Rust	<i>Puccinia versicolor</i> Diet. & Holw. (one with hyperparasite <i>Eudarluca australis</i> Speg. (imperfect state <i>Darluca filum</i> Cast. only)	One record ; Cummins 1953 Several records ; 245 D.S.
Smut	<i>Sorosporium caledonicum</i> Pat.	One record ; 1428 D.S.
Smut	<i>Sphacelotheca monilifera</i> (Ell. & Ev.) Clint	One record ; 657 D.S.
HEVEA BRASILIENSIS Müll.-Arg.	Rubber	
Leaf spot on over-exposed leaves	<i>Botryodiplodia theobromae</i> Pat. <i>Botryodiplodia theobromae</i> Pat.	Recorded Dwyer 1940b One record ; 2667b D.S.
Mouldy rot of panels	<i>Ceratocystis fimbriata</i> Ell. & Halst. As <i>Ceratostomella fimbriata</i>	Mentioned Mann 1953 One record ; 3069 D.S. One record ; 2667b D.S.
Leaf spot on over-exposed leaves	<i>Colletotrichum</i> sp.	Listed Dumbleton 1954 Many records ; 14 D.S.
Pink disease	<i>Corticium salmonicolor</i> Berk. & Br. (sexual state not observed ; conidial state " <i>Necator decretus</i> Mass." recorded once)	Listed Dumbleton 1954 Recorded Dwyer 1937b, 1940 Several records ; 2153 D.S.
White thread blight	<i>Corticium</i> spp.	Listed Dumbleton 1954 Recorded Dwyer 1937b, 1940 Several records ; 2153 D.S.
Root rot	<i>Fomes lignosus</i> (Klotzsch) Bres.	Listed Dumbleton 1954 Two records ; 1080 D.S.
Root rot	Probably <i>Fomes lignosus</i> Klotzsch (no fruiting bodies present)	Recorded Dwyer 1940b Many records ; 1101 D.S.
Root rot	<i>Fomes noxius</i> Corner	Listed Dumbleton 1954 Two records ; 1080 D.S.
Root rot	Probably <i>Fomes noxius</i> Corner (no fruiting bodies present)	Recorded Dwyer 1940b Many records ; 1101 D.S.
Root rot	<i>Fomes</i> sp.	Listed Dumbleton 1954 Mentioned Mann 1953 Mentioned Mann 1953 One record ; 1102 D.S.
Leaf spot and tip dieback of seedlings	<i>Glomerella cingulata</i> (Stonem.) Spauld. and Schrenk (conidial state <i>Gloeosporium</i> sp. only) <i>Gloeosporium heveae</i> Petch <i>Gloeosporium</i> sp.	Listed Dumbleton 1954 Mentioned Mann 1953 Mentioned Mann 1953 One record ; 1102 D.S.
Leaf spot	<i>Helminthosporium</i> sp.	One record ; 3556b D.S.
Horse-hair blight	Probably <i>Marasmius equicrinus</i> Müll. (no fruiting bodies present)	One record ; 3556b D.S. One record ; 3358 D.S.
Mould on panel	<i>Nectria haematocca</i> Berk. & Br.	One record ; 3556b D.S.
Tawny thread blight on seedlings	<i>Pellicularia filamentosa</i> (Pat.) Rogers (syn. <i>Corticium solani</i> (Prill. & Delacr.) Bourd. & Galz.) (mycelial state <i>Rhizoctonia solani</i> Kühn only)	One record ; 3556b D.S. One record ; 3358 D.S.
Associated with damaged seedling collar	<i>Phoma</i> sp.	One record ; 599 D.S.
Leaf spot	<i>Phyllosticta</i> sp.	One record ; 2446 D.S.
Black stripe	<i>Phytophthora palmivora</i> (Butler) Butler	"Occasional indications" Mann 1953 One record ; 3556a D.S.
Mould on panel	<i>Setodochium</i> sp.	Listed Dumbleton 1954 "Not greatly in evidence" Mann 1953 Recorded ; Dwyer 1940b Several records ; 1984 D.S.
Root rot	<i>Sphaerostilbe repens</i> Berk. & Br.	Two records ; 2165 D.S.
Charcoal rot	<i>Ustilina deusta</i> (Hoffm. ex Fr.) Petrak	
Algal spot	<i>Ustilina</i> spp.	
Algal spot	<i>Cephaleuros virescens</i> Kunze <i>Cephaleuros</i> sp.	

HIBISCUS CANNABINUS L.	Kenaf	
Leaf spot	<i>Phyllosticta</i> sp.	One record ; Anon. 1953
Root knot	<i>Meloidogyne arenaria</i> (Neal) Chitwood	One record ; 581 D.S.
Root knot	<i>Meloidogyne</i> sp.	One record ; Thrower 1958
HIBISCUS ESCULENTUS L.	Okra	
Distorted leaves	Possibly virus	One record ; 2951 D.S.
Root knot	<i>Meloidogyne incognita</i> var. <i>acrita</i> Chitwood	One record ; Thrower 1958
HIBISCUS MANIHOT L. (Syn. Abelmoschus manihot (L.) Medic.)	"Aibika"	
Leaf spot	<i>Myrothecium roridum</i> Tode ex Fr.	Two records ; 1368 D.S.
Powdery mildew	<i>Oidium</i> sp.	Three records ; 2823 D.S.
Green mottle	Probably virus	One record ; Magee 1954b
HIBISCUS ROSA-SINENSIS L.	Hibiscus	
Leaf spot	<i>Ascochyta abelmoschi</i> Harter	Two records ; 145 D.S.
Blossom blight	<i>Choanephora cucurbitarum</i> (Berk. & Rav.) Thaxter	One record ; 570 D.S.
Leaf spot	<i>Colletotrichum</i> sp.	One record ; 1302 D.S.
White thread blight	Probably <i>Marasmius</i> or <i>Corticium</i> sp. (perfect state not observed)	One record ; 1606 D.S.
On scale insects	<i>Septobasidium</i> sp.	Several records ; 1089 D.S.
Translucent veins	Probably virus	Two records ; 3767 D.S.
Root knot	<i>Meloidogyne incognita</i> var. <i>acrita</i> Chitwood	One record ; 732 D.S.
Root knot	<i>Meloidogyne</i> sp.	Recorded ; Thrower 1958
HIBISCUS sp. (Nr. H. abelmoschus L.)		
Leaf spot	<i>Cercospora malayensis</i> Stevens & Solheim	One record ; 475 D.S.
HIPPEASTRUM sp.		
Red leaf spot		One record ; 188 D.S.
Mosaic	Probably virus	Three records ; D.S.
HOMALANTHUS POPULNEIFOLIUS (Geisel.) Bax.		
Leaf spot		One record ; 22 D.S.
HORSFIELDIA IRYA (Warb.)		
White thread blight	Probably <i>Marasmius</i> or <i>Corticium</i> sp. (perfect state not observed)	One record ; 2794 D.S.
HOYA sp.		
Sooty mould		One record ; 2735 D.S.
HYDROCOTYLE sp.		
Leaf spot		Two records ; 832 D.S.
HYPOXIS sp.		
Rust	<i>Uromyces affinis</i> Wint.	Two records ; Cummins 1940
HOMALANTHUS sp. cf. HOMALANTHUS PAPUANUS Pax & Hoff.		
Leaf spot		One record ; 3143 D.S.
ICHNOCARPUS sp.		
Rust	<i>Achrotelium ichnocarpi</i> Sydow	Two records ; Cummins 1941b
IMPATIENS BALSAMINA L.	Garden balsam	
Root knot	<i>Meloidogyne</i> sp. As <i>Heterodera radiculicola</i>	One record ; Dwyer 1940
IMPATIENS sp. (probably I. LAWKERI Bull.)	Native balsam	
Leaf spot		Three records ; 970 D.S.
Root knot	<i>Meloidogyne hapla</i> Chitwood	One record ; 3104 D.S.

IMPATIENS sp.		
Rust	<i>Uredo gaeumannii</i> Ed. Fischer As <i>Uredo wantoatensis</i> Cummins in Cummins 1941b	One record; Cummins 1941b, 1952 One record; 3417 D.S.
IMPERATA ARUNDINACEA Cyr.	<i>Aulographum maximum</i> Masee	One record; Masee 1899
IMPERATA ARUNDINACEA var. KOENIGII	<i>Hypocrella</i> sp. <i>Sirosperma hypocrellae</i> Syd.	One record; Sydow 1917 One record; Sydow 1917
IMPERATA CYLINDRICA (L.) Beauv. "Kunai"		
Sooty mould	<i>Capnodium</i> sp.	One record; D.S.
Black perithecia on leaves	<i>Gibberella</i> sp.	Three records; 572 D.S.
Black crust on leaves	<i>Pirostoma</i> sp.	Three records; 3112 D.S.
Rust	<i>Puccinia microspora</i> Diet. (one with <i>Eudarluc</i> <i>australis</i> Speg.—asexual state <i>Darluc</i> Cast. only)	Two records; 2992 D.S.
Rust	<i>Puccinia rufipes</i> Diet.	Several records; Cummins 1941b, 1953 One record; Langdon 1948 Two records; 1444 D.S.
	With hyperparasite <i>Eudarluc</i> Speg. (asexual state <i>Darluc</i> Cast. only)	Two records; 355 & 426 D.S. Three records; 1335 D.S. Two records; 2127 D.S. Two records; 2244 D.S.
Leaf spots		
Red leaf stripe		
Pale green spots on leaves		
Chlorotic leaf stripe		
INOCARPUS FAGIFERUS (Parkinson) Fosberg (as I. edulis)	<i>Helotium inocarpi</i> P. Henn.	One record; Hennings 1894
INTSIA BIJUGA (O. K.) Colebr.		
Black incrustation on under- surface of leaves		One record; 2308a D.S.
IPOMOEA BATATAS (L.) Lam. Sweet potato	<i>Ceratocystis fimbriata</i> Ell. & Halst. As <i>Ceratostomella fimbriata</i> (Ell. & Halst.) Elliott	Listed Dumbleton 1954
Leaf spot	<i>Cercospora timorensis</i> Cooke	Many records; 293 D.S.
Scabby lesions on stems and leaf veins	<i>Elsinoe batatas</i> Jenkins & Viégas (conidial state only)	Many records; 2865 D.S.
Soft rot	<i>Rhizopus nigricans</i> Ehrenb.	Two records; 504 D.S.
Fasciation of stems	Virus (suspected)	Two records; 793 D.S. Listed Dumbleton 1954 Several records; 2399 D.S.
Variation of leaves		
IPOMOEA PES-CAPRAE (L.) Roth		
Rust	<i>Aecidium kaernbachii</i> P. Henn. As <i>Aecidium rechingeri</i> Bub.	One record; von Keissler 1910 One record; Cummins 1940 Two records; 2219 D.S. One record; 442 D.S.
Leaf spot	<i>Cercospora ipomoeae</i> Winter	
IPOMOEA sp. near I. PURPUREA (L.) Roth		
White rust	<i>Albugo ipomoeae-panduratae</i> (Schw.) Swing.	One record; 1542 D.S.
Sooty mould	<i>Meliola malacotricha</i> Speg.	One record; 1595 D.S.
IPOMOEA sp.		
Rust	<i>Aecidium kaernbachii</i> P. Henn.	One record; Hennings 1892 Two records; Cummins 1940
ISCHAEMUM CRISTATUM L.		
False smut	<i>Cerebella andropogonis</i> Ces.	One record; 2947 D.S.

ISCHAEMUM DIGITATUM Brongn.		
False smut	<i>Cerebella andropogonis</i> Ces.	Three records ; 942 D.S.
Smut	<i>Sphacelotheca ischaemicola</i> Ling	One record ; Ling 1949
Rust	<i>Uredo</i> sp.	One record ; 956 D.S.
	With hyperparasite <i>Eudarluc</i> <i>australis</i> Speg. (asexual state <i>Darluc</i> <i>filum</i> Cast. only)	
Leaf spot		Three records ; 1567 D.S.
Bacterial leaf stripe	<i>Xanthomonas</i> sp. ?	One record ; 910 D.S.
ISCHAEMUM FRAGILE R. Br.		
Head choke	<i>Ephelis pallida</i> Pat.	One record ; 2884 D.S.
ISCHAEMUM INDICUM (Houtt.) Merrill		
Smut	<i>Cintractia</i> sp.	One record ; Langdon 1948
ISCHAEMUM sp.		
Anthraxnose	<i>Colletotrichum graminicola</i> (Ces.) Wils.	One record ; 1919 D.S.
Rust	<i>Uromyces leptodermus</i> Sydow	One record ; Cummins 1941b
IXERIS PAPUANA (S. Moore) Stebbins		
Rust	<i>Puccinia ixeridicola</i> Cummins	Two records ; Cummins 1940
Rust	<i>Puccinia ixeridis</i> Cummins	Two records ; Cummins 1940
IXERIS UMBELLATA (Mattf.) Stebbins		
Rust	<i>Puccinia ixeridis</i> Cummins	One record ; Cummins 1940
IXORA sp.		
Sooty mould	<i>Chaetothyrium boedijnii</i> Hansf.	One record ; 1688a D.S.
Sooty mould	<i>Scorias</i> sp.	One record ; 1688b D.S.
JACQUEMONTIA sp.		
Rust	<i>Uredo jacquemontiae</i> P. Henn.	One record ; Hennings 1894
JUSSIEAE sp.		
Leaf spot		One record ; 399 D.S.
JUSTICIA GENDARUSSA Burm. f.		
Rust	<i>Puccinia thwaitesii</i> Berk.	One record ; Hennings 1893, 1898a
		Three records ; Cummins 1941b
Leaf spot		Two records ; 1705 D.S.
		Two records ; 2005 D.S.
JUSTICIA sp.		
Rust	<i>Puccinia thwaitesii</i> Berk.	One record ; Hennings 1892
KLEINHOFIA sp.		
Leaf spots		One record ; 1281 D.S.
KYLLINGA INTERMEDIA R. Br.		
Rust	<i>Uredo kyllingiae</i> P. Henn.	One record ; Cummins 1941a
LACTUCA SATIVA L. Lettuce		
Collar rot	<i>Sclerotium rolfsii</i> Sacc.	One record ; 3771 D.S.
Leaf spot	<i>Septoria lactucae</i> Pass.	Several records ; 2923 D.S.
Mosaic	Possibly virus	One record ; 798 D.S.
Root knot	<i>Meloidogyne incognita</i> var. <i>acrita</i> Chitwood	One record ; 2930 D.S.
LAGERSTROEMIA sp.		
Leaf spot	<i>Cercospora lythracearum</i> Heald & Wolf	One record ; 1716 D.S.

LEGUMINOSAE

Rust	<i>Pseudothis cingulata</i> Sydow	One record ; Sydow 1917
Witches Broom		One record ; 2885 D.S.
		Listed Dumbleton 1954
LEUCAENA GLAUCA (L.) Benth. ¹		
On old leaves	<i>Cladosporium</i> sp.	One record ; 3306b D.S.
Pink disease	<i>Corticium salmonicolor</i> Berk. & Br. (mycelial state only)	One record ; 586 D.S.
Tawny thread blight	<i>Pellicularia filamentosa</i> (Pat.) Rogers (syn. <i>Corticium solani</i> (Prill. & Delacr.) Bourd. & Galz.) (mycelial state <i>Rhizoctonia solani</i> Kühn only)	Two records ; 1583 D.S.
Root rot	<i>Fomes noxius</i> Corner (one collection with fruiting body)	Many records ; 2321 D.S.
On old stems	<i>Daldinia concentrica</i> (Fr.) Ces. & De Not	One record ; 2318a D.S.
On old stems	<i>Eutypella russodes</i> (Berk. & Br.) Berl.	One record ; 2318c D.S.
On old stems	<i>Helminthosporium solani</i> Dur. & Mont.	One record ; 2319e D.S.
On old stems	<i>Nectria jungneri</i> P. Henn.	One record ; 2320 D.S.
Leaf blight	<i>Pellicularia filamentosa</i> (Pat.) Rogers (syn. <i>Corticium solani</i> (Prill. & Delacr.) Bourd. & Galz.) (mycelial state <i>Rhizoctonia solani</i> Kühn only)	Two records ; 1583 D.S.
On old leaves	<i>Periconia byssoides</i> Pers. ex Schw.	One record ; 3306a D.S.
Stump rot	<i>Rosellinia arcuata</i> Petch	One record ; 3272 D.S.
On old stems	<i>Thyronectria pseudotrichia</i> (Schw.) Seeler	One record ; 2319a & b D.S.
On old stems	<i>Tryblidiella rufula</i> (Spreng.) Sacc.	Several records ; 2319c D.S.
Root knot	<i>Meloidogyne incognita</i> var. <i>acrita</i> Chitwood	One record ; 732 D.S.
Root knot	<i>Meloidogyne javanica</i> Chitwood	One record ; Thrower 1958
Root knot	<i>Meloidogyne</i> sp.	Several records ; 1973 D.S.
LEUCAENA GLABRATA Coult. & Rose		
Leaf spot		One record ; 1564 D.S.
LORANTHUS sp.		
Rust	<i>Puccinia heroica</i> Cummins	One record ; Cummins 1941c
Rust	<i>Puccinia macrocarya</i> Racib.	One record ; Cummins 1941c
	<i>Polystomella sordidula</i> (Lév.) Boedijn	One record ; Sydow 1917
	As <i>Loranthomyces sordidulus</i> (Lév.) Höhnelt	
LOTUS UGLIGINOSUS Schkuhr.		
Root knot	<i>Meloidogyne incognita</i> var. <i>acrita</i> Chitwood	One record ; 2618 D.S.
LUPINUS sp. Lupins		
Leaf spot	<i>Cercospora lupinicola</i> Lieneman	Two records ; 904 D.S.
Root knot	<i>Meloidogyne</i> sp.	One record ; 1880 D.S.
LUZULA sp.		
Rust	<i>Puccinia oblongatoides</i> Cummins	Two records ; Cummins 1940
LYCOPERSICON ESCULENTUM Mill. Tomato		
Early blight	<i>Alternaria solani</i> Sorauer	Many records ; 37 D.S.
Brown mould	<i>Cladosporium fulvum</i> Cooke	Listed Dumbleton 1954
	<i>Fusarium oxysporum</i> f. <i>lycopersici</i> (Sacc.) Snyder & Hansen	Many records ; 236 D.S.
	As <i>Fusarium bulbigenum</i> var. <i>lycopersici</i> (Brushi) Wollenw. & Reinking	Listed Dumbleton 1954
Leaf spot	<i>Septoria lycopersici</i> Speg.	Listed Dumbleton 1954
	<i>Verticillium</i> sp.	Listed Dumbleton 1954
Bacterial wilt	<i>Pseudomonas solanacearum</i> E. F. Smith	Several records ; 2326a D.S.
Mosaic-type symptoms	Possibly virus	Recorded Magee 1954
		Several records ; D.S.
Bronze wilt		Listed Dumbleton 1954
Symptoms similar to bronze (spotted) wilt	Possibly virus	Several records ; 2940b D.S.
Root knot	<i>Meloidogyne arenaria</i> (Neal) Chitwood	One record ; 3585 D.S.
Root knot	<i>Meloidogyne incognita</i> var. <i>acrita</i> Chitwood	Several records ; 1544 D.S.
Root knot	<i>Meloidogyne incognita</i>	One record ; Thrower 1958
Root knot	<i>Meloidogyne</i> sp.	Recorded ; Dwyer 1940
	As <i>Heterodera radicum</i>	

¹ The valid name now appears to be *Leucaena leucocephala* (Lam.) de Wit.

MACARANGA QUADRIGLANDULOSA Warb.			
Associated with leaf spot	<i>Haplographium</i> sp.	One record ; 2994 D.S.	
Epiphyllous sooty mould	Capnodiaceae (pycnidial)	One record ; 2994c	
Superficial hypophyllous mould	<i>Englerula</i> sp. (near <i>E. leonensis</i> Syd.)	One record ; 2994b	
MACARANGA sp.			
Small leaf spot		One record ; 21 D.S.	
Large leaf spot with zonate pattern		Two records ; 1267 D.S.	
MAGNOLIA sp.			
Algal spot	<i>Cephaleuros virescens</i> Kunze	One record ; 534 D.S.	
MALLOTUS sp.			
Rust	<i>Crossopora malloti</i> (Racib.) Cummins (<i>Cronartium malloti</i> Racib.)	One record ; Cummins 1940	
MALLOTUS MOLUCCANUS M. Arg.			
Rust	<i>Crossopora malloti</i> (Racib.) Cummins As <i>Uromyces malloti</i> P. Henn. in Hennings 1892	One record ; Hennings 1892, Cummins 1940	
MALUS sp.			
On old stem	<i>Botryodiplodia theobromae</i> Pat.	One record ; 2099 D.S.	
MANGIFERA INDICA L. Mango			
Sooty mould	<i>Asterina</i> sp.	One record ; 2665a D.S.	
White thread blight	Probably <i>Corticium</i> sp. or <i>Marasmius</i> sp. (perfect state not observed)	One record ; 3055 D.S.	
Leaf spot	<i>Glomerella cingulata</i> (Stonem.) Spauld. & Schrenk (Imperfect state only)	One record ; 2113 D.S.	
Parasitic on sooty mould	<i>Helminthosporium dorycarpum</i> Mont. (parasitic on <i>Meliola mangiferae</i>)	One record ; 2665c D.S.	
Sooty mould	<i>Meliola mangiferae</i> Earle	One record ; 2665b D.S.	
Leaf spot		One record ; 1562 D.S.	
MANIHOT UTILISSIMA Pohl. Cassava, tapioca			
Leaf spot	<i>Cercospora henningsii</i> Allesch.	Many records ; 51 D.S.	
Associated with tip die-back	<i>Colletotrichum capsici</i> (Syd.) Butler & Bisby	Two records ; 1244 D.S.	
On insects	<i>Septobasidium</i> sp.	One record ; 2018 D.S.	
Leaves reduced in size		Two records ; 941 D.S.	
MANISURUS ROTTBOELLIODES , see ROTTBOELLIA OPHIUROIDES			
MARISCUS sp.			
Rust	<i>Puccinia hennopsiana</i> Doidge	One record ; Cummins 1941a	
MEDICAGO SATIVA L. Lucerne			
Leaf spot	<i>Pseudopeziza medicaginis</i> (Lib.) Sacc.	Listed Dumbleton 1954	
Collar rot	<i>Sclerotium rolfsii</i> Sacc.	One record ; 1128 D.S.	
Rust	<i>Uromyces medicaginis</i> Pass. (one collection with <i>Eudarlucia australis</i> Speg.) (asexual state <i>Darlucia filum</i> Cast. only)	Two records ; 939 D.S.	
Leaf spot		One record ; 160 D.S.	
Root knot	<i>Meloidogyne incognita</i> var. <i>acrita</i> Chitwood	One record ; 2617 D.S.	
MELOCHIA CORCHORIFOLIA L.			
Leaf spot	<i>Cercospora melochiae</i> P. Henn.	One record ; 3230 D.S.	
MELALEUCA SYMPHOCARPA F. v. M.			
Sooty moulds	{	<i>Eremothecella</i> sp.	Two records ; 825b D.S.
		<i>Grallomyces portoricensis</i> Stev.	One record ; 1351b D.S.
		<i>Meliola</i> sp.	One record ; 1351a D.S.
		<i>Microthyrium</i> sp.	One record ; 1351c D.S.
		<i>Seynesia melaleuca</i> Hansf.	One record ; Hansford 1957 (825a D.S. Type)

MELASTOMA MALABATHRICUM L.		
Leaf spot		One record ; 405 D.S.
MELINIS MINUTIFLORA Beauv.		
Leaf spot		One record ; 129 D.S.
MELIOSMA FERRUGINEA Blume		
Rust	<i>Aecidium wareoense</i> Cummins	Two records ; Cummins 1941c
MERREMIA UMBELLATA (L.) Hallier f.		
Rust	<i>Aecidium kaernbachii</i> Henn.	One record ; 3305 D.S.
MERREMIA sp.		
Rust	<i>Aecidium kaernbachii</i> Henn.	Several records ; Cummins 1940
Leaf spot		One record ; 1209 D.S.
METROXYLON RUMPHII Mart. Sago palm		
Sooty mould	<i>Borinquenia</i> sp.	One record ; 1370 D.S.
METROXYLON sp. Bush sago		
Black mould on leaves	<i>Melanographium</i> sp.	One record ; 2565 D.S.
Black mould on leaves	Micropeltineae (indet.)	One record ; 2565a D.S.
Black mould on leaves	<i>Tripospermum</i> sp.	One record ; 2565b D.S.
Black mould on leaves	<i>Zygosporium parasiticum</i> (Grove) Bunting & Mason	One record ; 2565d D.S.
On insects	<i>Aschersonia</i> sp.	One record ; 3635 D.S.
MICROGLOSSA VOLUBILIS (Wall.) DC.		
Rust	<i>Uredo microglossae</i> Petch	Three records ; Cummins 1940
Rust	<i>Uredo mimica</i> Cummins	Two records ; Cummins 1940
MICROSTEGIUM CILIATUM (Trin.) A. Camus (as <i>Eulalia ciliata</i> (Trin.) Kunze)		
Rust	<i>Phakopsora incompleta</i> (Sydow) Cummins As <i>Uredo pollinia-imberbis</i> S. Ito in Cummins 1941b	One record ; Cummins 1941b, 1956a, 1956b
MICROSTEGIUM NUDUM (Trin.) A. Camus		
Rust	<i>Puccinia aestivalis</i> Diet. (one collection is type of <i>Uredo ogaensis</i> Cumm. Cummins 1941b)	Two records ; Cummins 1941b, 1953
MIMOSA INVISA Mart.		
On old stems	<i>Colletotrichum truncatum</i> (Schw.) Andrus & Moore	One record ; 3042c D.S.
Sooty mould	<i>Meliola</i> sp.	One record ; 3042a D.S.
Stem lesions		Three records ; 741 D.S.
Root knot	<i>Meloidogyne incognita</i> var. <i>acrita</i> Chitwood	One record ; Thrower 1958
MISCANTHUS FLORIDULUS (Labill.) Warb.		
Rust	<i>Puccinia miscanthi</i> Miura	One record ; 960 D.S.
Downy mildew and leaf shredding	<i>Sclerospora</i> sp.	Many records ; Hughes 1953
Smut	<i>Ustilago kusanoi</i> Sydow (<i>U. morobiana</i> Zundel (1944) given as a synonym)	One record ; 3439 D.S. One record ; Ling 1949
MISCANTHUS sp.		
Downy mildew and leaf shredding	<i>Sclerospora</i> sp.	Two records ; 1848 D.S.
Smut	<i>Ustilago morobiana</i> Zundel (Given as a synonym of <i>U. kusanoi</i> Sydow by Ling (1949))	One record ; Zundel 1944, 1953, Ling 1949
MOMORDICA CHARANTIA L.		
Leaf spot	<i>Cercospora citrullina</i> Cooke	Two records ; 2087 D.S.
Downy mildew	<i>Pseudoperonospora cubensis</i> (Berk. & Curt.) Rostow.	Two records ; 2371 D.S.

MONSTERA sp.		
Leaf spot		One record ; 1543 D.S.
MUCUNA ? sp.		
Rust	<i>Phakopsora pachyrhizi</i> Sydow	One record ; Cummins 1941b
MUSA TEXTILIS Nee Abaca, Manila hemp		
Stem rot	<i>Deightoniella torulosa</i> (Sydow) M. B. Ellis As <i>Helminthosporium torulosum</i> (Syd.) Ashby	One record ; Thrower 1954
Pseudostem rot	<i>Marasmius semiustus</i> Berk. & Curt. (syn. <i>M. inoderma</i> Berk.)	One record ; 2115 D.S.
Diamond leaf spot	<i>Scolecotrichum musae</i> Zimm.	One record ; 365 D.S.
Strap leaves	" Abnormal growth habit "—(plants destroyed)	Recorded ; Magee 1954a
MUSA spp. Bananas		
Leaf spot	<i>Armillaria mellea</i> (Vahl ex Fr.) Kummer	Listed Dumbleton 1954
Speckle	<i>Cladosporium musarum</i> Mason	One record ; 3249b D.S.
On old pseudostem	<i>Chloridium musae</i> Stahel	Several records ; 2899 D.S.
	<i>Curvularia</i> sp.	One record ; 2968 D.S.
	(<i>Fusarium oxysporum</i> f. <i>cubense</i> (E. F. Smith) Snyder and Hansen)	Listed Dumbleton 1954
	(This record is unconfirmed. Surveys by Magee and by Simmonds, and by patho- logists during the last seven years have failed to record this fungus.)	
	<i>Gloeosporium musarum</i> Cooke & Massee	Listed Dumbleton 1954
	<i>Macrophoma musae</i> (Cooke) Berk. & Vogl.	Listed Dumbleton 1954
	<i>Macrophomina phaseoli</i> (Maubl.) Ashby	Listed Dumbleton 1954
	<i>Marasmius</i> sp.	One record ; 819 D.S.
On old pseudostem	<i>Mycosphaerella musicola</i> R. Leach	
Leaf spot	As <i>Cercospora musae</i>	Recorded ; Magee 1954
		Many records ; 1447 D.S.
Black cross disease	<i>Phyllachora musicola</i> C. Booth & D. Shaw	Many records ; Booth & Shaw 1960 (Type TPNG 2805a)
Black pimples on leaves	<i>Phyllostictina musarum</i> (Cke.) Pet.	Two records ; 3091b D.S.
Speckle	<i>Ramichloridium musae</i> Stahel	Several records ; 3091a D.S.
	<i>Rhizoctonia</i> spp.	Listed Dumbleton 1954
Associated with leaf lesions	<i>Scolecobasidium</i> sp.	Two records ; 3091e D.S.
Diamond leaf spot	<i>Scolecotrichum musae</i> Zimm.	Many records ; 2900 D.S.
	<i>Septoria</i> spp.	Listed Dumbleton 1954
Rust	<i>Uredo musae</i> Cummins	Three records ; Cummins 1941b
Vascular disease	Bacterial	Listed Dumbleton 1954
Mosaic or infectious chlorosis	Virus	One record ; Magee 1954a, 1954b
MYRTACEA		
Sooty mould	<i>Meliolina arborescens</i> Sydow	One record ; Sydow 1917
NICOTIANA TABACUM L. Tobacco		
Leaf spot	<i>Alternaria longipes</i> (Ell. & Ev.) Mason	Several records ; 3092 D.S.
Leaf spot	<i>Cercospora nicotianae</i> Ell. & Ev.	Recorded Dwyer 1940b
		Many records ; 40 D.S.
	<i>Pellicularia filamentosa</i> (Pat.) Rogers (syn. <i>Corticium solani</i> (Prill. & Delacr.) Bourd. & Galz.)	Listed Dumbleton 1954
	As <i>Rhizoctonia solani</i> Kühn	
	<i>Pythium debaryanum</i> Hesse	Listed Dumbleton 1954
	<i>Rhizoctonia</i> spp.	Listed Dumbleton 1954
	<i>Septoria nicotianae</i> Pat.	One record ; 2248 D.S.
Damping off	<i>Pseudomonas solanacearum</i> (E. F. Smith) E. F. Smith	Listed Dumbleton 1954
	As <i>Bacterium solanacearum</i>	
Mosaic	Virus	Listed Dumbleton 1954
		Recorded Magee 1954b
		Several records ; 1715 D.S.

NICOTIANA TABACUM L.	Tobacco— <i>Continued</i>	
Large concentric leaf spot	Possibly bronze wilt	One record ; 2293 D.S.
Leaf curl	Virus	Listed Dumbleton 1954
Ring spot	Virus	Listed Dumbleton 1954
Virescence	Virus	Listed Dumbleton 1954
Root knot	<i>Meloidogyne incognita</i> var. <i>acrita</i> Chitwood	One record ; 2009 D.S.
Root knot	<i>Meloidogyne</i> sp. As <i>Heterodera radicicola</i>	Recorded Dwyer 1940
NIPA FRUTICANS Thunb.	Nipa palm	
Black plaques on leaves	<i>Rhipidocarpon javanicum</i> (Pat.) Theiss. & Sydow	One record ; 2460b D.S.
NOTHOFAGUS PERRYI Steenis		
Fructifications on stems	<i>Merulius confluens</i> Schw.	One record ; 2460a D.S.
Felt fungus on insects	<i>Septobasidium</i> ? <i>albidum</i> Pat.	One record ; 2460b D.S.
OCHROMA LAGOPUS Sw.	Balsa	
Red heart	Perhaps physiological	Several records ; 3282 D.S.
OLEARIA sp.		
Rust	<i>Corbulopsora clemensiae</i> Cummins	Two records ; Cummins 1940
Rust	<i>Corbulopsora gravida</i> Cummins	Three records ; Cummins 1940
OPERCULINA RIEDELIANA (Oliv.) Oostpr.		
Leaf spot	<i>Cercospora operculinae</i> Mendoza	One record ; 2382 D.S.
OPHIORRHIZA sp.		
Rust	<i>Uredo ophiorrhizae</i> Petch.	Three records ; Cummins 1941b
OPHIURUS EXULTATUS (L.) Kuntze		
Tar spot	<i>Phyllachora rottboelliae</i> Syd. & Butl.	Several records ; 90 D.S.
White leaf streak		One record ; 2297 D.S.
Leaf spots		Several records ; 36 D.S.
OPLISMENUS COMPOSITUS (L.) Beauv.		
Rust	<i>Phakopsora oplismeni</i> Cummins	One record ; Cummins 1941b, 1956a, 1956c
ORANIA sp.		
On fruit	<i>Xylaria scopiformis</i> Mont.	One record ; Hennings 1898a
ORCHIDACEAE		
Rust	<i>Coleosporium merrillii</i> P. Henn.	One record ; Cummins 1941b
Leaf spot	<i>Colletotrichum</i> sp.	One record ; 2225 D.S.
OREOBOLUS sp.		
Rust	<i>Puccinia oreoboli</i> Cummins	Two records ; Cummins 1941a
ORYZA SATIVIA L.	Rice	
Black mould on sheath bases	<i>Aithaloderma</i> sp.	One record ; 2576c D.S.
Isolated from grains	<i>Alternaria oryzae</i> Hara	One record ; Bugnicourt 1952
Sooty mould	Capnodiaceae with two kinds of pycnidia	One record ; 3451 D.S.
Leaf spot	<i>Cercospora oryzae</i> Miyake	One record ; 1390 D.S.
On senescent leaves	<i>Cladosporium herbarum</i> (Pers.) Link ex Fr.	One record ; 2166b D.S.
Isolated from grains	<i>Cochliobolus miyabeanus</i> (Ito & Kuribayashi) Drechsler ex Dastur As <i>Helminthosporium oryzae</i> Breda de Haan	One record ; Bugnicourt 1952
Leaf spot	<i>Cochliobolus miyabeanus</i> (Ito & Kuribayashi) Drechsler ex Dastur (two records of the sexual state, the balance of the asexual state, <i>Helminthosporium oryzae</i> Breda de Haan)	Many records ; 2721 D.S.
Sheath blotch	<i>Corticium sasakii</i> (Shirai) Matsumotu (mycelial state only)	Several records ; 1457 D.S.

ORYZA SATIVIA L. Rice—Continued		
Isolated from grains	<i>Curvularia geniculata</i> (Tracy & Earle) Boedijn	One record; Bugnicourt 1952
On grains	<i>Curvularia geniculata</i> (Tracy & Earle) Boedijn	Three records; 1255 D.S.
Isolated from grains	<i>Curvularia lunata</i> (Wakker) Boedijn	One record; Bugnicourt 1952
Leaf smut	<i>Entyloma oryzae</i> H. & P. Sydow	One record; Anon. 1953
		Many records; 1424a D.S.
Isolated from grains	<i>Fusarium kuehni</i> (Fuckel) Sacc.	One record; Bugnicourt 1952
Isolated from grains	<i>Fusarium semitectum</i> Berk. & Rav. v. <i>majus</i> Wr.	One record; Bugnicourt 1952
Isolated from grains	<i>Gibberella fujikuroi</i> (Saw.) Wr.	One record; Bugnicourt 1952
	As <i>Fusarium moniliforme</i> Sheldon	
Isolated from grain	<i>Helminthosporium hawaiiense</i> Bugnicourt	One record; Bugnicourt 1955
	<i>Leptosphaeria salvinii</i> Catt.	Listed Dumbleton 1954
On glumes	<i>Leptosphaeria</i> sp.	One record; 1399 D.S.
Leaf blotch	<i>Metasphaeria oryzae-sativae</i> Hara	Three records; 2576 D.S.
On old leaves, grain	<i>Nigrospora oryzae</i> (Berk. & Br.) Petch	Several records; 1441 D.S.
Brown sheath rot	<i>Ophiobolus oryzinus</i> Sacc.	Many records; 1070 D.S.
Associated with leaf spot	<i>Periconia minutissima</i> Corda	One record; 2059b D.S.
Glume blotch	<i>Phaeoseptoria oryzae</i> Miyake	Two records; 1311 D.S.
Associated with leaf spot	<i>Pithomyces sacchari</i> (Speg.) M. B. Ellis	One record; 2059c D.S.
White leaf streak	<i>Ramularia oryzae</i> Deighton & D. Shaw	Many records; Deighton & Shaw 1960 (Type 2053a D.S.)
		One record; Anon. 1953
False smut	<i>Ustilaginoidea virens</i> (Cooke) Tak.	
Root knot	<i>Meloidogyne</i> sp.	
	As <i>Heterodera radiculicola</i>	One record; Dwyer 1940b
ORYZA spp. Wild rice		
Leaf spot	<i>Cercospora oryzae</i> Miyake	One record; 1490 D.S.
Leaf spot	<i>Cochliobolus miyabeanus</i> (Ito & Kuribayashi) Drechsler ex Dastur (asexual state only)	One record; 1455a D.S.
	<i>Curvularia</i> sp.	One record; 1455c D.S.
On leaves	<i>Nigrospora oryzae</i> (Berk. & Br.) Petch	One record; 1455b D.S.
On leaves		One record; 1455 D.S.
White leaf streak		
PANDANUS sp.		
Black leaf mould	<i>Lembosia pandani</i> (Rostr.) Theiss.	One record; 3526 D.S.
On seeds	<i>Macrophoma pandani</i> Berl. & Vogl.	One record; von Keissler 1910
Sooty mould	<i>Meliola juttingii</i> Hansf.	One record; 1173 D.S.
On stems	<i>Polyporus gilvus</i> (Schw.) Fr.	One record; Hennings 1898a
Large leaf spot		Two records; 682 D.S.
Leaf spot		One record; 404 D.S.
Yellow spot mosaic	Probably virus	One record; Magee 1954b
PANICUM sp.		
Rust	<i>Puccinia orientalis</i> (Sydow & Butler) Arth. & Cumm.	One record; Cummins 1941b
PARSONIA sp.		
Rust	<i>Aecidium parsoniae</i> Petch	Two records; 1268 D.S.
PASPALUM CARTILAGINEUM Presl.		
Rust	<i>Puccinia paspalina</i> Cummins	Two records; Cummins 1941b,
	As <i>Uredo paspalina</i> Sydow in Cummins 1941b	1956b
PASPALUM CONJUGATUM Berg.		
Large white leaf blotch		One record; 2123 D.S.
Leaf spot		One record; 2038 D.S.
PASPALUM LONGIFOLIUM Rosb.		
Associated with <i>Sphacelia</i> sp.	<i>Cerebella</i> sp.	Two records; Langton 1948
Rust	<i>Puccinia paspalina</i> Cummins	Two records; Cummins 1941b,
	As <i>Uredo paspalina</i> Sydow in Cummins 1941b	1956b
	<i>Sphacelia</i> sp.	Two records; Langdon 1948
PASPALUM ORBICULARE Forst. f.		
Head choke	<i>Ephelis pallida</i> Pat.	One record; 2416 D.S.

PASPALUM SCROBICULATUM L.

Tar spot *Phyllachora* sp. One record ; Langdon 1948

PASPALUM sp.

False smut *Balansia paspali* P. Henn. One record ; Hennings 1898a
 Ergot *Cerebella andropogonis* Ces. One record ; 1775 D.S.
 Pink head incrustation *Claviceps paspali* Stev. & Hall Listed Dumbleton 1954
 Leaf spot *Fusarium* sp. Two records ; 1100 D.S.
 One record ; 1779 D.S.

PASSIFLORA EDULIS L. Passion fruit

Leaf spot *Alternaria passiflorae* J. H. Simmonds Many records ; Magee 1952
 Many records ; 64 D.S.

PASSIFLORA EDULIS var. FLAVICARPA

Chlorotic spot Chlorotic spot virus Recorded van Velsen 1961a

PASSIFLORA FOETIDA L.

Sooty mould *Schiffnerula mirabilis* Höhnel Three records ; 1269 D.S.
 Chlorotic spot Chlorotic spot virus Recorded van Velsen 1961a
 Leaf spot Three records ; 203 D.S.

PASSIFLORA QUADRANGULARIS L. Granadilla

Chlorotic spot Chlorotic spot virus Recorded van Velsen 1961a

PASSIFLORA sp.

Rust *Uredo passiflorae* Cummins One record ; Cummins 1941c

PASTINACA SATIVA L. Parsnip

Root knot *Meloidogyne incognita* var. *acrita* Chitwood Two records ; 2785 D.S.
 Root knot *Meloidogyne javanica* Chitwood One record ; 3397b D.S.
 Root knot *Meloidogyne* sp. One record ; 562 D.S.

PAVETTA INDICA L. var.

Rust *Aecidium flavidum* Berk. & Br. Several records ; Cummins 1941b

PEDILANTHUS sp.

Powdery mildew *Oidium* sp. Three records ; 2375 D.S.
 Heavily parasitized by *Cicinnobolus cesatii*
 de Bary

PENNISETUM CLANDESTINUM Hochst. Kikuyu grass

Leaf spot *Helminthosporium* sp. Two records ; 1855 D.S.

PENTAS sp.

Stem blight *Pellicularia filamentosa* (Pat.) Rogers (syn. Two records ; 3685 D.S.
Corticium solani (Prill. & Delacr.) Bourd.
 & Galz.) (mycelial state *Rhizoctonia solani*
 Kühn only)

PERISTROPHE sp. (aff. **BIVALVIS** (L.) Merr.)

Rust *Aecidium hypoestis* Sydow One record ; Cummins 1943

PERSEA GRATISSIMA Gaertn. f.

Algal spot *Cephaleuros pulvinatus* Schmidle Three records ; 2976 D.S.
 Growing on lichen on leaf *Tevatosperma anacardii* Hansford One record ; 3298 D.S.

PETREA sp.

Stem girdling One record ; 2925 D.S.

PHASEOLUS CALCARATUS Rox.

Blossom blight *Choanephora cucurbitarum* (Berk. & Rav.) Three records ; 345 D.S.
 Thaxter
 False rust *Synchytrium phaseoli* Weston Three records ; 735 D.S.
 Root knot *Meloidogyne javanica* Chitwood One record ; Thrower 1958
 Root knot *Meloidogyne arenaria Thamesi* Chitwood One record ; 3385 D.S.

PHASEOLUS LATHYROIDES L.

Leaf spot	<i>Ascochyta phaseolorum</i> Sacc.	One record ; 969 D.S.
Mosaic	Probably virus	One record ; 231 D.S.
Root knot	<i>Meloidogyne javanica</i> (Treub) Chitwood	One record ; 3638 D.S.

PHASEOLUS LUNATUS L.

Rust	<i>Phakopsora vignae</i> (Bres.) Arth.	One record ; Cummins 1943
Root knot	<i>Meloidogyne incognita</i> var. <i>acrita</i> Chitwood	One record ; 3596 D.S.

PHASEOLUS MUNGO L.

Leaf spot	<i>Myrothecium roridum</i> Tode ex Fr.	One record ; 3083 D.S.
Root knot	<i>Meloidogyne incognita</i> var. <i>acrita</i> Chitwood	One record ; Thrower 1958

PHASEOLUS VULGARIS L.

Dwarf and climbing beans		
Anthracnose	<i>Colletotrichum lindemuthianum</i> (Sacc. & Magn.) Bri. & Cav.	Several records ; 3016a D.S.
Angular leaf spot	<i>Isariopsis griseola</i> Sacc.	Many records ; 94 D.S.
Collar rot	<i>Pellicularia filamentosa</i> (Pat.) Rogers (syn. <i>Corticium solani</i> (Prill. & Delacr.) Bourd. & Galz.) (mycelial state <i>Rhizoctonia solani</i> Kühn only)	One record ; 3219 D.S.
White mould	<i>Ramularia deusta</i> (Fuckel) Karakulin	Three records ; 1805 D.S.
Collar rot	<i>Sclerotium rolfsii</i> Sacc.	One record ; 1672 D.S.
Rust	<i>Uromyces appendiculatus</i> (Pers.) Unger As <i>U. phaseoli</i> (Pers.) Winter	One record ; Cummins 1941c Several records ; 876 D.S.
Mosaic	Probably virus	Two records ; D.S.
Root knot	<i>Meloidogyne arenaria</i> (Neal) Chitwood <i>Meloidogyne incognita</i> var. <i>acrita</i> Chitwood <i>Meloidogyne</i> sp.	One record ; 1545 D.S. One record ; Thrower 1958 One record ; 2223 D.S. Two records ; 984 D.S.

PHASEOLUS spp.

<i>Colletotrichum lindemuthianum</i> (Sacc. & Mag.) Bri. & Cav.	Listed Dumbleton 1954
<i>Uromyces fabae</i> (Pers.) de Bary	Listed Dumbleton 1954

PHLOX DRUMMONDII Hook.

Collar rot	<i>Sclerotium rolfsii</i> Sacc.	One record ; 1931 D.S.
Leaf spot	<i>Septoria divaricata</i> Ell. & Ev.	One record ; 903 D.S.

PHRAGMITES COMMUNIS L. Common reed

Black scab	<i>Hadrotichum phragmitis</i> Fuckel	Two records ; 761 D.S.
Sooty mould	<i>Meliola arundinis</i> Pat.	Three records ; 1452 D.S.
Rust	<i>Puccinia magnusiana</i> Körn. Heavily parasitized with hyperparasite <i>Eudarluca australis</i> Speg. (asexual state <i>Darluca filum</i> Cast. only)	Two records ; 1004 D.S.
White leaf streak	<i>Ramularia phragmitis</i> Nagorny	Two records ; 3552 D.S.
Leaf spots		Two records ; 1767 D.S.

PHRAGMITES sp.

Sooty mould	<i>Meliola</i> sp. (parasitized by <i>Calloriopsis</i> <i>gelatinosa</i> (Ell. & Mart.) Sydow, given as <i>Calloria meliolicola</i> P. Henn.)	One record ; Hennings 1898a
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PHYLLANTHUS sp.

Rust	<i>Aecidium phyllanthi</i> P. Henn.	One record ; Hennings 1892
Rust	<i>Ravenelia brevispora</i> Hirats. & Hash.	One record ; Cummins 1943

PHYSALIS ANGULATA L.

Leaf spot	<i>Cercospora physalidis</i> Ellis	One record ; 237 D.S.
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PIPER BETLE L.

Diffuse black spot	<i>Myrothecium roridum</i> Tode ex Fr.	Several records ; 3113 D.S.
Mosaic	Perhaps virus	One record ; Magee 1954 One record ; 3114 D.S.

PIPER NIGRUM L. Pepper		
Leaf blotch	<i>Colletotrichum</i> sp. (probably <i>C. piperis</i> Petch)	One record ; 1647 D.S.
Algal spot	<i>Cephaleuros</i> sp. (probably <i>C. virescens</i> Kunze)	Three records ; 1646 D.S.
PIPER sp.	<i>Hypocrella plana</i> Sydow	One record ; Sydow 1917
PIPTURUS ARGENTEUS (Forst.) Wedd.		
Thread blight	<i>Rhizoctonia solani</i> type mycelium	One record ; 1615 D.S.
Zonate leaf blotch		One record ; 1614 D.S.
Leaf spot		One record ; 1488 D.S.
PISUM SATIVUM L. Peas		
Leaf spot	<i>Mycosphaerella pinodes</i> (Berk. & Blox.) Vestergr.	Several records ; 2391 D.S.
Mosaic	Probably virus	One record ; 1884 D.S.
PLANTAGO sp.		
Rust	<i>Aecidium advectitium</i> Cummins	Two records ; Cummins 1940
PLUMERIA sp. Frangipani		
White thread blight	<i>Marasmius</i> or <i>Corticium</i> sp. (mycelium only)	One record ; 636 D.S.
Sooty mould	Sterile Capnodiaceae	One record ; 1503 D.S.
Sooty mould	Immature Chaetothyriaceae	One record ; 1473 D.S.
Sooty moulds		Three records ; 1340 D.S.
Leaf spot		Two records ; 526 & 1493 D.S.
POA LONGIRAMEA Hitchc.		
Rust	<i>Puccinia poae-nemoralis</i> Otth. As <i>P. poae-sudeticae</i> (Westend.) Jørstad in Cummins 1941b	Several records ; Cummins 1941b, 1956b
POGONATHERUM PANICEUM (Lam.) Hack.		
Rust	<i>Puccinia pogonatheri</i> Petch	Two records ; Cummins 1941b, 1953
POGOSTEMON CABLIN Benth. (Host listed by Dwyer as <i>Patchouli pogostemmon</i> , which is apparently an incorrect rendering of <i>Pogostemon patchouly</i> Pellet, whose correct botanical name is <i>Pogostemon cablin</i> Benth.)		
Root knot	<i>Meloidogyne</i> sp. As <i>Heterodera radicumicola</i>	One record ; Dwyer 1940
POLLIA near SORSOGONENSIS (E. Mey.) Steud.		
Rust	<i>Uredo polliae</i> Cummins	One record ; Cummins 1941c
POLLINIA LEPTOSTACHYS Pilger		
Smut	<i>Sphacelotheca polliniana</i> Zundel	One record ; Zundel 1943, 1953
POLYGONUM CHINENSE L.		
Rust	<i>Puccinia congesta</i> Berk. & Br.	Three records ; Cummins 1940
POLYGONUM sp.		
Leaf blotch	<i>Cercospora persicariae</i> Yamamoto	One record ; 2462a D.S.
Smut	<i>Ustilago emodensis</i> Berk.	One record ; 2462b D.S.
POLYTOCA MACROPHYLLA Benth.		
Leaf streak	<i>Gloeocercospora</i> sp.	One record ; 2267 D.S.
Leaf spot	<i>Phaeoseptoria</i> sp. (perhaps associated with <i>Phyllachora</i> sp.)	Two records ; 1333 D.S.
Tar spot	<i>Phyllachora</i> sp. (one at least with hyper- parasite)	Many records ; 1067 D.S.
Smut	<i>Ustilago polytocae-barbartae</i> Mundk.	One record ; Ling 1949 One record ; 1468 D.S.
Leaf spots		Two records ; 2056 D.S.
Small eye spot		One record ; 2863b D.S.
Mosaic	Perhaps virus	Two records ; D.S.

PONCIRUS TRIFOLIATA (L.) Raf. Parasitic on insects	<i>Septobasidium</i> sp.	One record ; 1395 D.S.
PORTULACCA OLERACEA L. White leaf spot		Two records ; 722 D.S.
POTENTILLA sp. Rust	<i>Pucciniastrum potentillae</i> Kom.	Three records ; Cummins 1941c
PRATIA ANGULATA Hook. f. Rust	<i>Aecidium microstomum</i> Berk.	Several records ; Cummins 1940
PROSOPIS sp. Root rot	<i>Ganoderma</i> sp.	One record ; 2700 D.S.
PRUNUS PERSICAE Stokes Peach Peach leaf curl Rust Shot hole	<i>Taphrina deformans</i> (Berk.) Tul. <i>Tranzschelia pruni-spinosae</i> (Pers.) Diet.	Two records ; 2765 D.S. Several records ; 925 D.S. One record ; 1561 D.S.
PSIDIUM GUAJAVA L. Guava Algal spot	<i>Cephaleuros virescens</i> Kunz.	Three records ; 173 D.S.
PSOPHOCARPUS TETRAGONOLOBUS DC. Winged bean False rust Root knot	<i>Synchytrium psophocarpi</i> Racib. <i>Meloidogyne incognita</i> (Kofoid & White) Chitwood	One record ; 2334 D.S. One record ; 2208 D.S.
PSYCHOTRIA sp. Rust Rust	<i>Aecidium micranthum</i> Sydow <i>Puccinia fallax</i> Arth.	One record ; Cummins 1941b One record ; Cummins 1941b
PTERIS sp.	<i>Rhagadolobium pteridis</i> (P. Henn.) v. Arx As <i>Lauterbachia pteridis</i> P. Henn. Hennings 1898 As <i>Rhagadolobium hemiteliae</i> P. Henn. & Lindau in v. Höhnel 1918	One record ; Hennings 1898a, v. Höhnel 1918, Müller & v. Arx 1962
PTEROCARPUS INDICUS Willd. Rosewood Black leaf incrustations Tar spot	<i>Aldona stella-nigra</i> Racib. <i>Phyllachora pterocarpi</i> Sydow	One record ; 1014a D.S. One record ; 1014b D.S.
PTYCHOSPERMA sp. On fruit	<i>Xylaria carpophila</i> (Pers.) Fr.	One record ; Hennings 1893, 1894
PUERARIA LOBATA (Willd.) Ohwi (Syn. Pueraria thunbergiana (S. & Z.) Benth.) Yellow mould False rust Leaf spot	<i>Mycovellosiella</i> sp. <i>Synchytrium minutum</i> (Pat.) Gäum.	Many records ; 1600 D.S. Many records ; 1492 D.S. Two records ; 1493 D.S.
PUERARIA PHASEOLOIDES Benth. Blossom blight Black horse-hair blight on dead leaves Diffuse black leaf spot	<i>Fusarium</i> sp. <i>Marasmius</i> sp. (?) (mycelium only present)	One record ; 1594 D.S. One record ; 2122 D.S. Many records ; 1502 D.S.
PUERARIA THUNBERGIANA see PUERARIA LOBATA		
PUERARIA sp. (as " PUERARIA SERICANS " K. Schumann) False rust	<i>Synchytrium minutum</i> (Pat.) Gäum As <i>Aecidium puerariae</i> P. Henn.	One record ; Hennings 1892

PUNICA GRANATUM L. Ornamental pomegranate		
Sooty mould	<i>Chaetothyrium</i> sp.	One record ; 1454a D.S.
Sooty mould	<i>Microxyphium</i> sp.	One record ; 1454b D.S.
RAPHANUS SATIVUS L. Radish		
Leaf spot	<i>Alternaria raphani</i> Groves & Skolko	One record ; 890 D.S.
RAVENALA MADAGASCARIENSIS J. F. Gmel. Travellers palm		
Frond and trunk rot	<i>Fusarium</i> sp. associated	One record ; 2648 D.S.
RHEUM RHAPONTICUM L. Rhubarb		
Leaf spot	<i>Ascochyta rhei</i> (Ell. & Ev.) Ell. & Ev.	Several records ; 1826 D.S.
RHODODENDRON LORANTHIFLORUM Sleumer		
Black mould on leaves	<i>Asterina</i> sp.	One record ; 3034a D.S.
Associated with above	<i>Cicinnobella</i> sp. parasitic on <i>Asterina</i> mycelium	One record ; 3034b D.S.
Associated with above	<i>Dimerium</i> sp. parasitic on the <i>Asterina</i> mycelium	One record ; 3034c D.S.
Associated with above	<i>Mycophaga</i> sp. parasitic on sterile meliaceous mycelium	One record ; 3034d D.S.
RHODODENDRON STONORI Sleumer		
Black mould on leaves	<i>Asterina</i> sp.	One record ; 2461 D.S.
RHYNCHELYTRUM REPENS (Willd.) C. E. Hubbard		
Rust	<i>Puccinia levis</i> (Sacc. & Bizz.) Magn.	Two records ; 1059 D.S.
Leaf spot		One record ; 268 D.S.
RHYNCHOSPORA sp.		
Smut	<i>Cintractia nova-guineae</i> Zundel	One record ; Zundel 1939, 1953 ; Ling 1950
RICINUS COMMUNIS L. Castor oil		
Leaf spot	<i>Alternaria ricini</i> (Yoshii) Hansf.	Several records ; 2147 D.S.
Leaf spot	<i>Cercospora ricinella</i> Sacc. & Berlese	Several records ; 467 D.S.
On insect-attacked leaves	<i>Choanephora cucurbitarum</i> (Berk. & Rav.) Thaxter	One record ; 2291a D.S.
Leaf spot	<i>Xanthomonas ricini</i> (Yoshii and Takimoto) Dowson*	One record ; 3446 D.S.
Leaf spot		One record ; 2291c D.S.
ROSA sp. Rose		
Leaf spot	<i>Cercospora rosicola</i> Pass.	One record ; 1592 D.S.
Black spot	<i>Diplocarpon rosae</i> Wolf	Several records ; 3322 D.S.
Leaf spot	<i>Mycosphaerella rosigena</i> (Ell. & Ev.) var. <i>madagascariensis</i> (Bouriquet) Wallace	Two records ; 2681 D.S.
Powdery mildew	<i>Sphaerotheca pannosa</i> (Wallr.) Lév. (Oidial state only)	Three records ; 1409 D.S.
ROTTBOELLIA OPHIUROIDES Benth. (Syn. <i>Manisuris rottboellioides</i> (R. Br.) Kuntze)		
Smut	<i>Tolyposporella pachycarpa</i> (Sydow) Ling	One record ; Ling 1949
RUBUS DICLINIA F. Muell.		
Rust	<i>Hamaspora acutissima</i> Sydow	One record ; Cummins 1940
RUBUS MACGREGORII F. Muell.		
Rust	<i>Uredo falcifera</i> Cummins	One record ; Cummins 1940
RUBUS MOLUCCANUS L.		
Rust	<i>Hamaspora acutissima</i> Sydow	One record ; Cummins 1940 Two records ; 2664 D.S.
RUBUS PAPUANUS Schltr. vel aff.		
Rust	<i>Kuehneola papuana</i> Cummins	One record ; Cummins 1940

* Recorded on plants grown from imported seed at the Quarantine Station.

RUBUS sp.*Hamaspora acutissima* Sydow

Three records ; Cummins 1940

SACCHARUM ARUNDINACEARUM see **ERIANTHUS ARUNDINACEUS****SACCHARUM EDULE** Hassk. Edible Pit-pitVeneer blotch
Red rot*Deightoniella papuana* D. Shaw
Glomerella tucumanensis (Speg.) Arx. & Müll.
(symptoms only)One record ; 1956 D.S.
Two records : 490 D.S.Tar spot
Rust*Phyllachora sacchari* P. Henn.
Puccinia kuehnii (Krüger) Butler
With hyperparasite *Eudarlucula australis*
Speg. (asexual state *Darlucula filum* Cast.
only)One record ; 2729a D.S.
One record ; 2729b D.S.Downy mildew
Fiji disease
Mosaic symptoms*Sclerospora* sp.
Virus
VirusOne record ; Hughes 1953
One record ; Hughes 1953
One record ; Hughes 1953**SACCHARUM OFFICINARUM** L. Sugar cane

Yellow spot

Cercospora koepkei KrügerOne record ; Stevenson &
Rands 1938

Red leafstreak

Cercosporella sp.
Ceratocystis paradoxa (Dade) Moreau
As *Ceratostomella paradoxa*Several records ; Hughes 1953
One record ; 2864 D.S.
One record ; 3554 D.S.
Listed Dumbleton 1954Veneer blotch
Red rot*Deightoniella papuana* D. Shaw
Glomerella tucumanensis (Speg.) Arx. & Müll.
As *Physalospora tucumanensis* Speg.
(symptoms and *Colletotrichum* state only)

One record ; Shaw 1956

Eye spot

Helminthosporium sacchari (v. Breda den Haan)
Butler

Recorded Hughes 1953

Pokkah Boeng

As *Gibberella fujikuroi* (Saw.) Wr.
Marasmius sacchari Wakker
Pleocyta sacchari (Mass.) Petr. and Syd.
Puccinia kuehnii (Krüger) Butler
One with hyperparasite *Eudarlucula australis*
Speg., asexual state *Darlucula filum* Cast.
Two with hyperparasite *Hendersonia uredinophila* Sydow
(A record of rust by Dumbleton 1954 is in
error—Hughes' 1953 record to which
Dumbleton refers is of symptoms of rust on
a robustum-type wild cane)

One record ; Martin 1950

Several records ; Hughes 1953
One record ; 2130 D.S.
One record ; Martin 1950
Several records ; Hughes 1953
Listed Dumbleton 1954
One record ; Hughes 1953
Three records ; 2853 D.S.

Downy mildew

Sclerospora sp.

Sclerospora sacchari Miy.
(*Schizophyllum commune* Fr. was recorded by
Hughes on a robustum-type cane, not on
S. officinarum)One record ; Lennox 1938
Several records ; Hughes 1953
Listed Dumbleton 1954
Listed Dumbleton 1954 (in
error)

Red rot of leaf sheath

Sclerotium rolfsii Sacc.
(*Ustilago scitaminea*.)
(This appears to be an error, since neither
the sugar cane collecting expeditions nor
the author has recorded it)One record ; Hughes 1953
Listed Dumbleton 1954Brown-red stripes on leaves
(Hughes unknown disease
No. 1) (perhaps associated
with low temperatures)

Many records ; Hughes 1953

"Pustular disease" (Hughes
unknown disease No. 2)

Two records ; Hughes 1953

Small leaf spot (Hughes
unknown disease No. 3)

Many records ; Hughes 1953

Streaks on leaves (Hughes
unknown disease No. 4)

One record ; Hughes 1953

Banded sclerotial disease

(Perhaps environmental)

One record ; Hughes 1953

Brown mould on leaves

One record ; 1576 D.S.

Various leaf spots, blotches etc.

Many records ; 80 D.S.

SACCHARUM OFFICINARUM L. Sugar Cane—*Continued*

Leaf scald	(<i>Xanthomonas albilineans</i> (Ashby) Dowson) (apparently in error)	Listed Dumbleton 1954
Gumming	(<i>Xanthomonas vasculorum</i> (Cobb) Dowson) (Apparently an error carried over from old lists—see Hughes 1953).	Listed Dumbleton 1954
Fiji disease	Virus	Recorded Carne & Baker Expedition (North 1915, and Buzacott & Hughes 1951). Recorded Brandes-Jesweit Expedition (Brandes 1935 and Brandes & Matz 1935). Many records; Lennox 1938 Many records; Hughes 1953 Many records; 138 D.S. Two records; Carne & Baker Expedition (North 1915). Three records; Brandes-Jesweit Expedition (Brandes 1935 & Brandes & Matz 1935)
Mosaic symptoms	Virus	One record; Abbott 1946
Chlorotic streak virus (observed in the field but unconfirmed)		

SACCHARUM ROBUSTUM Brandes & Jesweit ex Grassl. and **S. ROBUSTUM** types

Yellow spot	<i>Cercospora koepkei</i> Krüger	Many records; Hughes 1953
Veneer blotch	<i>Deightonella papuana</i> D. Shaw	Many records; Shaw 1956
Red rot	<i>Glomerella tucumanensis</i> (Speg.) Arx. & Müll. As <i>Physalospora tucumanensis</i> Speg. (symptoms only)	One record; Hughes 1953 Two records; 1923 D.S. Many records; 59 D.S.
Tar spot	<i>Phyllachora sacchari</i> P. Henn. <i>Phyllachora</i> sp. Parasitized by <i>Cryptodidymosphaeria clandestina</i> Syd.	One record; 1850 D.S.
Rust	<i>Puccinia kuehnii</i> (Krüger) Butler (symptoms only) One with hyperparasite <i>Eudartluca australis</i> Speg. (asexual state <i>Dartluca filum</i> Cast. only)	One record; Hughes 1953 Two records; 836 D.S.
Downy mildew & leaf shredding	<i>Sclerospora</i> sp.	Many records; Hughes 1953
Red rot of the leaf sheath	<i>Sclerotium rolfsii</i> Sacc.	One record; Hughes 1953
Schizophyllum rot on dead cut cane	<i>Schizophyllum commune</i> Fr.	One record; Hughes 1953
Small leaf spot (Hughes unknown disease No. 3)		Many records; Hughes 1953
Various leaf spots, blotches, streak etc.		Many records; 2163 D.S.
Chlorotic streak	Perhaps virus	One record; 1271 D.S. 1953
Fiji disease	Virus	Several records; Hughes 1953

SACCHARUM SPONTANEUM L. Cane grass

Veneer blotch	<i>Deightonella papuana</i> D. Shaw	Many records; Shaw 1956
Red rot	<i>Glomerella tucumanensis</i> (Speg.) Arx. & Müll. (symptoms only)	Two records; 1277 D.S.
Tar spot	<i>Phyllachora sacchari-spontanei</i> Syd.	Several records; 757 D.S.
Rust	<i>Puccinia kuehnii</i> (Krüger) Butler Usually with hyperparasite <i>Hendersonia uredinophila</i> Sydow	Several records; 1276 D.S.
Downy mildew	<i>Sclerospora</i> sp.	One record; Lennox 1938, cited by Leece 1941
Leaf shredding	<i>Sclerospora</i> sp.	Several records; 30 D.S.
Various leaf spots, stripes etc.		Several records; 2301c D.S.

SACCHARUM sp.

Veneer blotch	<i>Deightonella papuana</i> D. Shaw	One record; 965 D.S.
Downy mildew (leaf shredding)	<i>Sclerospora</i> sp.	One record; 1005 D.S.
Large leaf spot		One record; 791 D.S.
Crinkly and distorted leaves		One record; 2138 D.S.
Chlorotic streak virus (unconfirmed)		One record; Abbott 1946. cited Hughes 1953

SAINTPAULIA IONANTHA M. Wendl. African violet		
Collar rot	<i>Phytophthora</i> sp.	One record ; 3382 D.S.
Collar rot	<i>Sclerotium rolfsii</i> Sacc.	One record ; 3074 D.S.
SANCHEZIA NOBILIS Hook. f.		
Sooty mould	<i>Chaetothyrium</i> ? sp. (immature)	One record ; 1754 D.S.
SCHEFFLERA ACTINOPHYLLA see BRASSAIA ACTINOPHYLLA		
SCHOENUS aff. SUBAXILLARIS Kukenth.		
Rust	<i>Puccinia mera</i> Cummins	Three records ; Cummins 1940
SCINDAPSIS AUREUS (Lind. & André) Engl.		
Leaf blotch	<i>Colletotrichum</i> sp.	One record ; 2389 D.S.
SCIRPUS GROSSUS L.		
Rust	<i>Puccinia scirpi-grossi</i> Sydow	One record ; Cummins 1941a
SCLERIA CHINENSIS Kunth		
Leaf spot		One record ; 1380 D.S.
SCLERIA HEBECARPA Nees		
Rust	<i>Puccinia scleriae</i> (Pazschke) Arth.	Several records ; Cummins 1941a
SCLERIA ROXBURGII (C. B. Clarke) Domin.		
Leaf spot		One record ; 269 D.S.
SCLERIA sp.		
Rust	<i>Puccinia papuana</i> Cummins	One record ; Cummins 1941a
Rust	<i>Puccinia scleriae</i> (Pazschke) Arth.	One record ; Cummins 1941a
Rust	<i>Uredo subsolana</i> Cummins	One record ; Cummins 1941a
Leaf spot		Two records ; 397 D.S.
SECALE CEREALE L. "Black Winter Rye"		
Leaf spot	<i>Pyricularia grisea</i> (Cooke) Sacc.	One record ; 2957 D.S.
SECHIUM EDULE L. Choko		
Leaf blotch		One record ; 892 D.S.
SENECIO GLOSSOPHYLLUS Mattf.		
Rust	<i>Puccinia largifica</i> Cummins	Several records ; Cummins 1941c
SENECIO sp.		
Rust	<i>Aecidium albiceratum</i> Cummins	One record ; Cummins 1941c
Rust	<i>Aecidium</i> ? <i>pachycarpum</i> Sydow	One record ; Cummins 1941c
SESBANIA ACULEATA Pers.		
Witches broom	Perhaps virus	One record ; 2646 D.S.
SETARIA GENICULATA (Lam.) Beauv.		
Rust	<i>Uromyces leptodermus</i> Sydow	One record ; Cummins 1941b
SETARIA MONTANA Reeder ex descr.		
Rust	<i>Puccinia elgonensis</i> Wakef. With hyperparasite <i>Eudarluca australis</i> Speg. (pycnidial state <i>Darluca filum</i> Cast. only)	One record ; 950 D.S.
SETARIA PALMIFOLIA (Willd.) Stapf		
Tar spot	<i>Phyllachora</i> sp.	Two records ; 1083 D.S.
Rust	<i>Uredo palmifoliae</i> Cummins	Two records ; Cummins 1941b
Rust	<i>Uromyces leptodermus</i> Sydow	One record ; Cummins 1941b
Leaf spots		Several records ; 168 D.S.

SETARIA PALLIDE-GRISEA (Schumacher) Stapf & Hubbard		
Rust	<i>Puccinia elgonensis</i> Wakef.	One record ; 917 D.S.
	With hyperparasite <i>Eudarlucula australis</i> Speg. (pycnidial state <i>Darlucula filum</i> Cast. only)	
SIDA ACUTA Burm. f.		
Sooty mould	<i>Irenopsis sidae</i> (Rehm) Hughes	Two records ; 1270 D.S.
Leaf spot	<i>Myrothecium roridum</i> Tode ex Fr.	One record ; 1222a D.S.
SIDA CORDIFOLIA L.		
Leaf spot	<i>Cercospora hyalospora</i> Muller & Chupp	One record ; 723 D.S.
SIDA RHOMBIFOLIA L.		
Leaf spot	<i>Myrothecium roridum</i> Tode ex Fr.	One record ; 3038 D.S.
Mildew	<i>Oidium</i> sp.	One record ; 3296 D.S.
Mosaic	Possibly virus	Several records ; 499 D.S.
SLOANEA sp.		
On fruit	<i>Thamnomycetes warburgii</i> P. Henn.	One record ; Hennings 1893, 1894, 1900
SMILAX sp.		
Rust	<i>Puccinia citricolor</i> Cummins	Many records ; Cummins 1940
Rust	<i>Puccinia ferruginea</i> Lév.	One record ; Cummins 1941c
SOLANUM MAMMOSUM L.		
Root knot	<i>Meloidogyne</i> sp.	One record ; Thrower 1958
SOLANUM MELONGENA L.		
Leaf spot		Two records ; 1203 D.S.
Root knot	<i>Meloidogyne</i> sp.	One record ; Thrower 1958
SOLANUM TUBEROSUM L.	Potato	
Early blight	<i>Alternaria solani</i> Sorauer	Listed Dumbleton 1954 Many records ; 106 D.S.
Dry rot and wilt	<i>Fusarium oxysporum</i> Schlecht. ex Fr.	Two records ; 162 D.S.
Collar rot and wilt	<i>Phytophthora infestans</i> (Mont.) de Bary	Listed Dumbleton 1954
Common scab	<i>Sclerotium rolfsii</i> Sacc.	One record ; 3017 D.S.
	<i>Streptomyces scabies</i> (Thaxt.) Waks. & Henr. (syn. <i>Actinomyces scabies</i> (Thaxt.) Guss.)	Listed Dumbleton 1954 One record ; 2184 D.S.
	<i>Verticillium albo-atrum</i> Reinke & Berth.	Listed Dumbleton 1954
Leaf roll	Virus	Recorded Magee 1954b
SOLANUM VERBASCIFOLIUM L.		
Leaf spot	<i>Cercospora</i> sp.	Two records ; 3144a D.S.
Associated with wilted leaves	<i>Choanephora cucurbitarum</i> (Berk. & Rav.) Thaxter	One record ; 3345 D.S.
Associated with leaf spot	<i>Corynespora cassiicola</i> (Berk. & Curt.) Wei	One record ; 3144b D.S.
SOLANUM sp.		
Diffuse leaf spot		One record ; 1709 D.S.
SORGHUM ALMUM Parodi	Columbus grass	
Leaf spot	<i>Cercospora sorghi</i> Ell. & Ev.	One record ; 3599 D.S.
SORGHUM LAXIFLORUM F. M. Bailey		
Smut	<i>Sphacelotheca reitiana</i> (Kühn) Clint.	One record ; 2787 D.S.
SORGHUM NITIDUM (Vahl) Pers.		
Rust	<i>Puccinia purpurea</i> Cooke	One record ; 38 D.S.
	With hyperparasite <i>Eudarlucula australis</i> Speg. (pycnidial state <i>Darlucula filum</i> Cast. only)	
Rust	<i>Uredo geniculata</i> Cumm.	One record ; Cummins 1941b
Leaf spot		Two records ; 518 D.S.

SORGHUM PROPINQUUM (Kunth) Hitchc		
Smut	<i>Shacelotheca reiliana</i> (Kühn) Clint.	One record ; 3405 D.S.
SORGHUM VULGARE Pers. Sorghum		
Leaf spot	<i>Cercospora sorghi</i> Ell. & Ev.	Several records ; 3058 D.S.
Leaf blotch	<i>Cochliobolus heterostrophus</i> Drechsl. (Asexual state <i>Helminthosporium maydis</i> Nishik. & Miyake only)	One record ; 522 D.S.
Anthraxnose	<i>Colletotrichum graminicola</i> (Ces.) G. W. Wils.	Three records ; 1034 D.S.
On grains	<i>Curvularia lunata</i> (Wakker) Boedijn	One record ; 2221a D.S.
On grains	<i>Curvularia</i> spp.	One record ; 1964 D.S.
On grain	<i>Fusarium</i> spp.	Three records ; 2221b D.S.
Rust	<i>Puccinia purpurea</i> Cooke Some collections with hyperparasite <i>Eudarlucula australis</i> Speg. (pycnidial state <i>Darlucula filum</i> Cast. only)	Many records ; 2167 D.S.
Smut	<i>Shacelotheca sorghi</i> (Link) Clint.	One record ; D.S. 1033
Leaf spots, blotches and stripes		Many records ; 539 D.S.
SPOROBOLUS CAPENSIS (Willd.) Kunth		
False sooty mould	<i>Helminthosporium ravenelii</i> Curtis	One record ; 1350 D.S.
SPOROBOLUS DIANDER (Repz) Beauv.		
False sooty mould	<i>Helminthosporium ravenelii</i> Curtis	One record ; Langdon 1948
STACHYTARPHETA JAMAICENSIS (L.) Vahl		
Powdery mildew	<i>Oidium</i> sp.	Three records ; 809 D.S.
Sooty mould		One record ; 1351 D.S.
STIZOLOBIUM sp.		
Leaf spot	<i>Cercospora stizolobii</i> H. & P. Sydow	Several records ; 360 D.S.
Minor and doubtful mosaic symptoms	Perhaps virus	One record ; Magee 1954b
STYLOSANTHES GRACILIS H.B.K.		
Leaf spot		One record ; 1637 D.S.
Mosaic	Probably virus	Two records ; 1116 D.S.
STYLOSANTHES sp.		
Minor and doubtful mosaic symptoms	Perhaps virus	One record ; Magee 1954b
SYMPHYTUM OFFICINALE L. Russian Comfrey		
Leaf blotch		Two records ; 2282 D.S.
SYNEDRELLA NODIFLORA Gaertn.		
Brown mould	<i>Cercospora</i> sp.	Two records ; 2887 D.S.
Indistinct leaf spot	<i>Phragmothryrium coruscans</i> (Rehm) Theiss.	Several records ; 3086 D.S.
SYZYGIUM sp.		
Sooty mould	<i>Chaetothyrium womersleyi</i> Hansf.	One record ; Hansford 1956
Sooty mould	<i>Brooksia tropicalis</i> Hansf.	One record ; Hansford 1956
TEPHROSIA CANDIDA (L.) DC.		
Pink disease	<i>Corticium salmonicolor</i> B. & Br. (Mycelial state only observed)	Recorded Green 1938 Three records ; D.S.
Sooty mould	<i>Meliola stizolobii</i> Hansf. & Deighton var. <i>desmodii-salicifolii</i> Hansf. & Deighton	One record ; 1348 D.S.
Mosaic	Probably virus	One record ; 231 D.S.
Root knot	<i>Meloidogyne incognita</i> (Rofoid & White) Chitwood	One record ; Thrower 1958
Root knot	<i>Meloidogyne javanica</i> (Treub) Chitwood	One record ; 3645 D.S.
TEPHROSIA VESTITA Vogel		
Sooty mould	<i>Meliola stizolobii</i> Hansf. & Deighton var. <i>desmodii-salicifolii</i> Hansf. & Deighton	One record ; 2671 D.S.

TEPHROSIA VOGELII Hook.		
Leaf spot	<i>Cercospora</i> sp.	Two records ; 1752 D.S.
TEPHROSIA sp.		
Mosaic	Probably virus	One record ; Magee 1954b
TERMINALIA sp.		
Leaf spot	<i>Cercospora</i> sp.	Three records ; 1609 D.S.
Sooty mould	<i>Lembosia terminaliae</i> Hansf.	One record ; Hansford 1957
THEMEDA AUSTRALIS (R. Br.) Stapf	Kangaroo grass	
	<i>Balansia sclerotica</i> (Pat.) Höhnelt	One record ; 1489 D.S.
False smut	<i>Cerebella andropogonis</i> Ces.	One record ; 2948 D.S.
Associated with <i>Sphacelia</i> sp.	<i>Cerebella</i> sp.	One record ; Langdon 1948
Tar spot	<i>Phyllachora anthistiriicola</i> Sydow	One record ; 826 D.S.
	<i>Sphacelia</i> spp.	One record ; Langdon 1948
Leaf spot		One record ; 398 D.S.
TABERNAEMONTANA sp.		
Rust	<i>Puccinia engleriana</i> P. Henn.	One record ; Cummins 1941b
Rust	<i>Puccinia morobensis</i> Cummins	One record ; Cummins 1941b
TACCA PINNATIFIDA Forst.		
Leaf spot	<i>Cercospora taccae</i> (Sydow) Chupp	One record ; 2265 D.S.
TAGETES sp.		
Petal and leaf blight		One record ; 1868 D.S.
TASCONIA MOLLISSIMA H.B.K.	Banana passionfruit	
Fruit spots	<i>Gloeosporium</i> sp.	One record ; 2770 D.S.
TAPEINOCILUS sp.		
Black tar spot	<i>Phyllachora</i> sp.	One record ; 402 D.S.
Leaf spot		One record ; 2849 D.S.
TECTONA GRANDIS L.f.	Teak	
Sooty mould	<i>Capnodium</i> sp.	One record ; 1550a D.S.
Sooty mould	<i>Cephalosporium</i> sp.	One record ; 1550c D.S.
Seedling and leaf blight	<i>Pellicularia filamentosa</i> (Pat.) Rogers (syn. <i>Corticium solani</i> (Prill. & Delacr.) Bourd. & Galz.) (mycelial state <i>Rhizoctonia solani</i> (Kühn only))	Two records ; 2945 D.S.
Root rot		Several records ; 3279 D.S.
THEMEDA GIGANTEA (Cav.) Hack.		
Incrustation on head	<i>Fusarium</i> sp.	One record ; 902 D.S.
Smut	<i>Sphacelotheca</i> sp. (?)	One record ; 901 D.S.
Smut (whole inflorescence involved)	<i>Sphacelotheca</i> sp. (?)	One record ; 1245 D.S.
THEMEDA TRIANDRA Forsk.		
Rust	<i>Uromyces clynyi</i> Pat. & Har. <i>As Uredo themedicola</i> Cummins in Cummins 1941b	One record ; Cummins 1941b, 1956b
THESPESIA POPULNEA (L.) Sol. ex Corr.		
Leaf spot		One record ; 666 D.S.

THEOBROMA CACAO L. Cacao

Honey fungus	(<i>Armillaria mellea</i> (Vahl ex Fr.) Kummer)	Discussed by Green 1938 but not recorded for N.G.
On old wood	<i>Arthrobotryum</i> sp.	Listed Dumbleton 1954
On old wood	<i>Auricularia auricula-judae</i> (L. ex Fr.) Schröt.	Four records; 2324c D.S.
Pod rot	<i>Botryodiplodia theobromae</i> Pat. As <i>Diplodia theobromae</i> Nowell	One record; 2499 D.S. Mentioned by Bryce 1924 Recorded Green 1938 Recorded Thrower 1960 Many records; 2999 D.S. Recorded Urquhart & Dwyer 1951
Chupon wilt (?)	<i>Botryodiplodia theobromae</i> Pat. As <i>Diplodia theobromae</i>	Recorded Bryce 1924 Recorded Green 1938 Recorded Dwyer 1940b, Dwyer & Urquhart 1951
Dieback	<i>Botryodiplodia theobromae</i> Pat. As <i>Diplodia theobromae</i> Pat. (As associated with <i>Botryodiplodia</i> spp.)	Mentioned by Bryce 1924 Recorded Green 1938 Recorded Dwyer 1940b, Dwyer & Urquhart 1951
Associated with dieback	<i>Botryodiplodia theobromae</i> Pat.	Many records; 2490 D.S.
On old wood	<i>Calonectria rigidiuscula</i> (Berk. & Br.) Sacc.	Many records; 2315 D.S.
Sooty moulds	Capnodiaceae. At least three different types of glabrous perithecia present, resembling <i>Chaetothyrium boedijnii</i> Hansf. (but devoid of setae) and <i>Chaetothyrium vermisporum</i> var. <i>glabrum</i>)	One record; 2995 D.S.
Sooty mould	<i>Chaetothyrium boedijnii</i> Hansf.	One record; 1772a D.S.
Sooty mould	<i>Chaetothyrium vermisporum</i> Hansf. var. <i>glabra</i> Hansf.	One record; Hansford 1957 (1201 D.S.)
Sooty mould	<i>Chaetothyrium womersleyi</i> Hansf.	One record; 1772b D.S.
Sooty moulds		Three records; 2995 D.S.
Pod rot	<i>Colletotrichum</i> sp.	Recorded Thrower 1960
Pink disease	<i>Corticium salmonicolor</i> Berk. & Br.	Recorded Green 1938 Recorded Urquhart & Dwyer 1951 Recorded Henderson 1954 Many records; 2541 D.S.
	(Mycelial state only)	
On old wood	<i>Cyphella</i> (<i>Phaeocyphella</i>) <i>variolosa</i> Kalchbr.	Four records; 2496 D.S.
On old wood	<i>Deflexula fascicularis</i> (Bres. & Pat.) Corner	One record; 2498 D.S.
On old wood	Near <i>Endophragma</i> sp.	One record; 2497 D.S.
White root rot	<i>Fomes lignosus</i> (Klotzsch) Bres. As <i>Rigidoporus microporus</i> (Swartz) van Overeem As <i>Leptoporus lignosus</i>	Recorded Green 1938 Listed Dumbleton 1954 Recorded Henderson 1954 Recorded Thrower 1956 One record; 2627 D.S.
Brown root rot	<i>Fomes noxius</i> Corner As <i>Fomes lamaoensis</i> Murr. (but referring to a pathogenic fungus)	Recorded Bryce 1924 Recorded Green 1938 Recorded Henderson 1954 Recorded Thrower 1955 Many records; 3393 D.S.
	(One collection with fructification)	
Wet root disease	<i>Ganoderma pseudoferreum</i> (Wakef.) Over. & Stein.	Discussed by Green 1938 but not recorded for N.G. Recorded Thrower 1954 Recorded Henderson 1954 Recorded Urquhart & Dwyer 1951 Recorded Henderson 1954
Wet rot	<i>Ganoderma</i> sp.	One record; 2134 D.S.
Anthraxnose of pods	<i>Gloeosporium</i> sp.	One record; 2666c D.S. One record; 3576 D.S.
On old wood	<i>Haplosporella</i> sp.	One record; 2558 D.S.
On old wood	<i>Helminthosporium ampullaceum</i> Petch	Recorded Henderson 1954
White thread blight with fructifications	<i>Marasmiellus</i> sp.	One record; 2134 D.S. One record; 2666c D.S. One record; 3576 D.S.
White thread blight with fructifications	<i>Marasmius cyphella</i> Dennis & Reid	One record; 2558 D.S.
Horse hair blight	<i>Marasmius sarmentosus</i> Berk.	Listed Dumbleton 1954
White thread blight	<i>Marasmius</i> sp. (no fructifications present) <i>Marasmius</i> or <i>Corticium</i> spp.	Three records; 1102 D.S. Recorded Green 1938 Recorded Urquhart & Dwyer 1951 Recorded Henderson 1954

THEOBROMA CACAO L. Cacao—Continued

White thread blight, no fructifications On old wood	Probably <i>Marasmius</i> sp. <i>Nectria ochroleuca</i> (Schw.) Berk. (conidial state only)	Several records ; 2412 D.S. One record ; 2135b D.S.
On old wood	<i>Nectria subquarternata</i> Berk. & Br. (<i>Gliocladium</i> conidial state present)	Two records ; 2323b D.S.
On old wood	<i>Nectria</i> sp.	Two records ; 2486c D.S.
On old wood	<i>Phaeoisaria</i> sp.	Three records ; 2500b D.S.
Pod rot, canker, chupon wilt	<i>Phytophthora palmivora</i> (Butler) Butler As <i>P. faberi</i> Maubl.	Mentioned by Bryce 1924 Recorded Green 1938 Recorded Urquhart & Dwyer 1951 Recorded Henderson 1954 Recorded Thrower 1960 Many records ; 2444 D.S. One record ; 3348 D.S. Listed Dumbleton 1954 Listed Dumbleton 1954 Listed Dumbleton 1954 Discussed by Green 1938 but not actually mentioned as present in N.G. Listed Dumbleton 1954
On old wood	<i>Podoplaconema</i> sp. <i>Rosellinia bunodes</i> (Berk. & Br.) Sacc. <i>Rosellinia paraguayensis</i> Starb. <i>Rosellinia pepo</i> Pat. <i>Sphaerostilbe repens</i> Berk. & Br.	Recorded Henderson 1954 Recorded Thrower 1960 Many records ; 2444 D.S. One record ; 3348 D.S. Listed Dumbleton 1954 Listed Dumbleton 1954 Listed Dumbleton 1954 Discussed by Green 1938 but not actually mentioned as present in N.G. Listed Dumbleton 1954
On old wood	<i>Stachybotrys theobromae</i> Hansf.	Several records ; 2278 D.S.
On old wood	<i>Stilbella proliferans</i> F. L. Stevens	Several records ; 2322 D.S.
On old wood	<i>Stilbum</i> sp.	Three records ; 2495 D.S.
On old wood	<i>Thyronectria pseudotrichia</i> (Schw.) Seeler	Two records ; 2500 D.S.
Collar rot	<i>Ustilina deusta</i> (Hoffm. ex Fr.) Petr. As <i>U. zonata</i>	Recorded Urquhart & Dwyer 1951 Recorded Henderson 1954 Recorded Thrower 1956 Two records ; 2661 D.S. Three records ; 2995 D.S.
On old wood	<i>Xylaria</i> sp.	Three records ; 2660e D.S. Recorded Green 1938
Sooty moulds	<i>Cephaleuros minimus</i> Karsten	
Alga on green twigs	<i>Cephaleuros virescens</i> Kunze	
Algal leaf spot	As <i>C. virescens</i> Kunz., <i>C. mycoidea</i> Karst. <i>Mycoidea parasitica</i> Cunn.	Several records ; 2501 D.S.
Wet red internal trunk and branch rot		
THYSANOLAENA MAXIMA (Roxb.) O. Ktze.		
Rust	<i>Uredo</i> sp. With hyperparasite <i>Eudarlucal filum</i> Speg. (pycnidial state <i>Darlucal filum</i> Cast. only)	One record ; 1471a D.S.
Leaf blotch		One record ; 1471b D.S.
TITHONIA DIVERSIFOLIA (Hemsl.) A. Gray		
Leaf spot	<i>Cercospora tithoniae</i> Baker & Dale	Several records ; 3037 D.S.
TOURNEFORTIA probably SARMENTOSA Lam.		
Rust	<i>Uromyces permeritus</i> Cummins	One record ; Cummins 1940
TOXOCARPUS sp.		
Rust	<i>Aecidium toxocarpi</i> Cummins	One record ; Cummins 1941c
TRICHOSANTHES ANGUINA L.		
Associated with leaf spot	<i>Colletotrichum lagenarium</i> (Pass.) Ell. & Halst.	One record ; 3394b D.S.
Leaf spot	Possibly bacterial	One record ; 3394a D.S.
TRIDAX PROCUMBENS L.		
Leaf spot	<i>Cercospora tridaxis-procumbentis</i> Thirumalachar & Govindu	Three records ; 2091 D.S.
TRIFOLIUM REPENS L. White clover		
Root knot	<i>Meloidogyne</i> sp.	One record ; 946 D.S.

TRIFOLIUM RUPELLIANUM Fresen.		
Root knot	<i>Meloidogyne incognita</i> var. <i>acrita</i> Chitwood	One record ; 3595 D.S.
TRIPETALUM sp. Candle tree		
Sooty mould	<i>Capnodium</i> sp.	One record ; 1206 D.S.
TRITICUM AESTIVUM L. Wheat		
Leaf spot	<i>Cercospora secalis</i> Chupp	Three records ; 2958 D.S.
Black mould on glumes	<i>Cladosporium sphaerospermum</i> Penzig	One record ; 2492 D.S.
On glumes	<i>Cladosporium</i> sp.	Two records ; 814b D.S.
Leaf blight & glum blotch	<i>Cochliobolus sativus</i> (Ito and Kuribay.) Drechsler ex Dastur (asexual state <i>Helminthosporium sativum</i> Pamm. King & Bakke only)	Two records ; 814a D.S.
Black mould on glumes	<i>Curvularia geniculata</i> (Tracy & Earle) Boedijn	One record ; 2216b D.S.
On glumes	<i>Epicoccum</i> sp.	One record ; 814c D.S.
On glumes	<i>Fusarium</i> sp.	One record ; 3465 D.S.
Head blight	<i>Gibberella zeae</i> (Schw.) Petch. (asexual state only)	Three records ; D.S.
On glumes	<i>Phyllosticta</i> sp.	One record ; 814d D.S.
Black mould on glumes	<i>Pithomyces sacchari</i> (Speg.) M. B. Ellis	One record ; 2216a D.S.
TROPAEOLUM sp. Nasturtium		
Leaf spot	<i>Heterosporium tropaeoli</i> Bond	Two records ; 142 D.S.
UNCINIA CAESPITOSA Boott		
Rust	<i>Uredo uncinicola</i> Cummins	One record ; Cummins 1941a
URARIA LAGOPODIODES DC.		
Leaf spot	<i>Cercospora</i> sp.	One record ; 2294 D.S.
Rust	<i>Phakopsora meibomiaae</i> Arth. (tentatively)	One record ; Cummins 1943
Mosaic	Probably virus	Recorded Magee 1954b
URENA LOBATA L.		
Sooty mould	<i>Irenopsis molleriana</i> (Wint.) Stev.	One record ; 1608 D.S.
URTICACEAE		
Rust	<i>Aecidium lauterbachii</i> P. Henn.	One record ; Hennings 1894
VANDOPSIS sp. ?		
On leaves	<i>Gloeosporium vandopsisidis</i> Keissl.	One record ; von Keissler 1910
VANILLA PLANIFOLIA Andr.		
Shoot blight	<i>Gloeosporium</i> sp.	One record ; 3196 D.S.
Rot of cuttings	<i>Sclerotium rolfsii</i> Sacc.	One record ; 3187 D.S.
Leaf spot		One record ; 1430 D.S.
VERNONIA CINEREA (L.) Less.		
Rust	<i>Aecidium veroniae-cinereae</i> Petch	Two records ; Cummins 1941b
Powdery mildew	<i>Oidium</i> sp.	One record ; 3630 D.S.
VIGNA SESQUIPEDALIS (L.) Fruw. Yard long bean		
Leaf spot	<i>Cercospora canescens</i> Ell. & Martin	Three records ; 317 D.S.
Rust	<i>Uromyces vignae</i> Barcl.	Two records ; 1358 D.S.
Mosaic	Probably virus	One record ; 180 D.S.
	Cowpea mosaic virus	Recorded van Velsen 1962
VIGNA SINENSIS (L.) Endl. ex Hassk. Cowpea		
Associated with leaf spot	<i>Periconia byssoides</i> Pers. ex Schweinitz	One record ; 446b D.S.
Leaf spot		Several records ; 7 D.S.
Mosaic	Cowpea mosaic virus	Recorded van Velsen 1962
VINCA ROSEA L.		
Associated with dieback	<i>Phoma</i> sp.	One record ; 1938 D.S.

VIOLA BETONICIFOLIA Sm.		
Leaf spot	<i>Septoria australiae</i> McAlp.	Two records ; 2004 D.S.
VIOLA sp.		
Rust	<i>Puccinia aegroides</i> Cummins	Several records ; Cummins 1940
VITIS VINIFERA L. Grapes		
Powdery mildew	<i>Plasmopara viticola</i> (Berk. and Curt. ex de Bary) Berl. & de Toni	One record ; 3788 D.S.
Leaf spot		One record ; 1210 D.S.
WEDELIA BIFLORA (L.) DC.		
Rust	<i>Uromyces wedeliae</i> P. Henn.	Three records ; Cummins 1940
XANTHOSOMA sp. Taro Kongkong		
Leaf spot		Several records ; 1142 D.S.
ZEA MAYS L. Maize		
Sooty mould	<i>Capnodium</i> sp.	One record ; 1462b D.S.
Sooty mould	<i>Microxyphium</i> sp.	One record ; 1462a D.S.
Tropical rust	<i>Puccinia polysora</i> Underw. (Many collections with hyperparasite <i>Eudarlucia australis</i> Speg., asexual state <i>Darlucia filum</i> Cast. only)	Many records ; Shaw 1958
Rust	<i>Puccinia sorghi</i> Schw. (Many collections with hyperparasite <i>Eudarlucia australis</i> Speg., asexual state <i>Darlucia filum</i> Cast. only)	One record ; Cummins 1941b Many records ; Shaw 1958
Downy mildew	<i>Sclerospora</i> sp.	One record ; Hughes 1953 Many records ; D.S.
Leaf blotch	<i>Trichometasphaeria turcica</i> Luttrell (asexual state <i>Helminthosporium turcicum</i> Pass. only) " <i>Ustilago sorghi</i> " (unconfirmed)	Many records ; 45 D.S.
Leaf spot	<i>Cercospora sorghi</i> Ell. & Ev.	Listed Dumbleton 1954 One record ; 3136 D.S.
Mosaic	Probably virus	One record ; Hughes 1953
Chlorotic streak	Perhaps virus	One record ; Magee 1954b One record ; 1367 D.S.
ZINGIBER OFFICINALIS Rosc. Ginger		
Associated with leaf blotch	<i>Glomerella cingulata</i> (Stonem.) Spauld. & Schrenk	One record ; 3400b D.S.
Leaf blotch	<i>Corynebacterium</i> sp.	One record ; 3400a D.S.
Leaf blotch		One record ; 2851 D.S.
ZINGIBERACEAE (Probably on Amomum sp.)		
Rust	<i>Phakopsora elettariae</i> (Racib.) Cummins	Three records ; Cummins 1941c
Leaf blotch		Three records ; 20 D.S.
ZINNIA ELEGANS L. Zinnia		
Leaf spot	<i>Cercospora zinniae</i> Ellis & Martin	Many records ; 359 D.S.
Powdery mildew	<i>Oidium</i> sp.	Many records ; 2393a D.S.
Leaf spot	<i>Xanthomonas nigromaculans</i> f. <i>zinniae</i> Hopkins & Dowson	One record ; 3408a D.S.
Green virescent flower parts	Probably virus	One record ; 2587 D.S.
Root knot	<i>Meloidogyne</i> sp.	One record ; Thrower 1958 One record ; 3003b D.S.

PART 3

ALGAE

Host	Alga	Host	Alga
<i>Anacardium occidentale</i>	<i>Cephaleuros virescens</i>	<i>Grevillea robusta</i>	<i>C. virescens</i>
<i>Anona muricata</i>	<i>Cephaleuros</i> sp. (probably <i>C. virescens</i>)	<i>Hevea brasiliensis</i>	<i>C. virescens</i>
<i>Aralia</i> sp.	<i>C. virescens</i>	<i>H. brasiliensis</i>	<i>Cephaleuros</i> sp.
<i>Araucaria hunsteinii</i>	<i>Phycopeltis</i> sp.	<i>Magnolia</i> sp.	<i>C. virescens</i>
<i>Camellia sinensis</i>	<i>C. virescens</i>	<i>Persea gratissima</i>	<i>C. pulvinatus</i>
<i>Cinchona succirubra</i>	<i>C. virescens</i>	<i>Piper nigrum</i>	<i>Cephaleuros</i> sp. (probably <i>C. virescens</i>)
<i>Citrus medica</i>	<i>C. virescens</i>	<i>Psidium guajava</i>	<i>C. virescens</i>
<i>Citrus</i> sp.	<i>C. virescens</i>	<i>Theobroma cacao</i>	<i>C. minimus</i>
<i>Cocos nucifera</i>	Unidentified	<i>T. cacao</i>	<i>C. virescens</i>
<i>Coffea canephora</i>	<i>C. virescens</i>		
<i>Ficus</i> sp.	<i>Cephaleuros</i> sp.		

BACTERIA¹

Host	Bacterium	Host	Bacterium
<i>Brassica campestris</i>	<i>Xanthomonas campestris</i>	<i>Cocos nucifera</i>	<i>Bacillus</i> sp. ? ²
<i>B. oleracea</i>	<i>X. campestris</i>	<i>Dioscorea esculenta</i>	<i>Xanthomonas</i> sp.
<i>B. oleracea</i> var. <i>botrytis</i>	<i>X. campestris</i>	<i>Gossypium</i> sp.	<i>X. malvacearum</i> ²
<i>B. oleracea</i> var. <i>capitata</i>	<i>X. campestris</i>	<i>Ischaemum digitatum</i>	<i>Xanthomonas</i> sp. ?
<i>B. oleracea</i> var. <i>gemmifera</i>	<i>X. campestris</i>	<i>Lycopersicon esculentum</i>	<i>Pseudomonas solanacearum</i>
<i>Citrus limon</i>	<i>X. citri</i>	<i>Nicotiana tabacum</i>	<i>P. solanacearum</i> ²
<i>C. paradisi</i>	<i>X. citri</i>	<i>Ricinus communis</i>	<i>X. ricini</i> ²
<i>Citrus</i> spp.	<i>X. citri</i>	<i>Zingiber officinalis</i>	<i>Corynebacterium</i> sp.
		<i>Zinnia elegans</i>	<i>X. nigromaculans</i> f. <i>zinnae</i>

¹ This list does not include *Xanthomonas albilineans* or *X. vascularum* on *Saccharum officinarum*, as these records were apparently made in error.

² At present unconfirmed.

³ Recorded on plants grown from imported seed at the Quarantine Station.

VIRUSES¹

Host	Virus	Host	Virus
<i>Acalypha wilkesiana</i>	A little leaf virus	<i>C. retusa</i>	Centrosema mosaic virus
<i>Arachis hypogoea</i>	Marginal leaf chlorosis virus	<i>Cucurbita moschata</i>	A strain of melon mosaic virus
<i>Calopogonium mucunoides</i>	Centrosema mosaic virus	<i>Desmodium distortum</i>	Centrosema mosaic virus
<i>Cassia occidentalis</i>	Cassia mosaic virus	<i>Passiflora edulis</i> var. <i>flavicarpa</i>	Chlorotic spot virus
<i>C. tora</i>	Cassia mosaic virus	<i>P. foetida</i>	Chlorotic spot virus
<i>Centrosema pubescens</i>	Centrosema mosaic virus	<i>P. quadrangularis</i>	Chlorotic spot virus
<i>Crotalaria anagyroides</i>	Centrosema mosaic virus	<i>Vigna sesquipedalis</i>	Cowpea mosaic virus
<i>C. goveensis</i>	Centrosema mosaic virus	<i>V. sinensis</i>	Cowpea mosaic virus
<i>C. mucronata</i>	Centrosema mosaic virus		

¹ Viruses demonstrated experimentally.

VIRUS SYMPTOMS

Host	Symptom	Host	Symptom
<i>Alocasia</i> sp.	Mosaic	Leguminosae	Witches broom
<i>Amorphophallus campanulatus</i>	Rugosity of leaves	<i>Lycopersicon esculentum</i>	Mosaic type symptoms
<i>Canavallia ensiformis</i>	Leaves reduced, distorted	<i>L. esculentum</i>	Bronze wilt symptoms
<i>Canna indica</i>	Mosaic	<i>Musa</i> spp.	Mosaic or infectious chlorosis
<i>Capsicum annuum</i>	Leaf distortion	<i>Nicotiana tabacum</i>	Mosaic
<i>Carica papaya</i>	Reduced leaves	<i>N. tabacum</i>	Large concentric leaf spot
<i>C. papaya</i>	Mild mosaic	<i>N. tabacum</i>	Leaf curl
<i>Centrosema plumieri</i>	Mosaic	<i>N. tabacum</i>	Ring spot
<i>Centrosema</i> sp.	Mosaic	<i>N. tabacum</i>	Virescence
<i>Citrullus vulgaris</i>	Mosaic	<i>Pandanus</i> sp.	Yellow spot mosaic
<i>Clitoria ternatea</i>	Minor and doubtful mosaic symptoms	<i>Phaseolus lathyroides</i>	Mosaic
<i>Cocos nucifera</i>	Head droop and other abnormalities (suspected)	<i>P. vulgaris</i>	Mosaic
<i>Coix lachryma-jobi</i>	Leaf galls	<i>Piper betle</i>	Mosaic
<i>C. lachryma-jobi</i>	Mosaic	<i>Pisum sativum</i>	Mosaic
<i>Colocasia</i> sp.	Acute and chronic forms of mosaic	<i>Polytoca macrophylla</i>	Mosaic
<i>Cosmos sulphureus</i>	Fern leaf symptoms	<i>Saccharum edule</i>	Fiji disease
<i>Crotalaria anagyroides</i>	Witches broom	<i>S. edule</i>	Mosaic
<i>Cucurbita moschata</i>	Abnormal veins, distortion	<i>S. officinarum</i>	Fiji disease
<i>Cucurbita pepo</i>	Mosaic	<i>S. officinarum</i>	Mosaic
<i>Delonix regia</i>	Minor and doubtful mosaic symptoms	<i>S. officinarum</i>	Chlorotic streak symptoms
<i>Desmodium</i> sp.	Mosaic	<i>S. robustum</i>	Fiji disease
<i>Dioscorea esculenta</i>	Mosaic	<i>S. robustum</i>	Chlorotic streak symptoms
<i>Dioscorea</i> spp.	Mosaic	<i>Saccharum</i> sp.	Chlorotic streak symptoms
<i>Dolichos lablab</i>	Distorted leaves	<i>Sesbania aculeata</i>	Witches broom
<i>Gerbera</i> sp.	Virescence	<i>Sida rhombifolia</i>	Mosaic
<i>Glycine max</i>	Leaf distortion	<i>Solanum tuberosum</i>	Leaf roll
<i>Hibiscus esculentus</i>	Distorted leaves	<i>Stizolobium</i> sp.	Minor and doubtful mosaic symptoms
<i>H. manihot</i>	Green mottle	<i>Stylosanthes gracilis</i>	Mosaic
<i>H. rosa-sinensis</i>	Translucent veins	<i>Stylosanthes</i> sp.	Minor and doubtful mosaic symptoms
<i>Hippeastrum</i> sp.	Mosaic	<i>Tephrosia candida</i>	Mosaic
<i>Ipomoea batatas</i>	Variegation of leaves, perhaps genetical	<i>Tephrosia</i> sp.	Mosaic
<i>Lactuca sativa</i>	Mosaic	<i>Uraria lagopodioides</i>	Mosaic
		<i>Zea mays</i>	Mosaic
		<i>Z. mays</i>	Chlorotic streak
		<i>Zinnia elegans</i>	Virescence

NEMATODES

Host	Nematode	Host	Nematode
<i>Begonia</i> sp.	<i>Meloidogyne incognita</i> var. <i>acrita</i>	<i>Lactuca sativa</i>	<i>M. incognita</i> var. <i>acrita</i>
<i>Beta vulgaris</i>	<i>Meloidogyne</i> sp.	<i>Leucaena glauca</i>	<i>M. incognita</i> var. <i>acrita</i>
<i>B. vulgaris</i>	<i>M. incognita</i> var. <i>acrita</i>	<i>L. glauca</i>	<i>M. javanica</i>
<i>Brassica oleracea</i> var. <i>botrys</i>	<i>Meloidogyne</i> sp.	<i>L. glauca</i>	<i>Meloidogyne</i> sp.
<i>B. oleracea</i> var. <i>capitata</i>	<i>M. incognita</i> var. <i>acrita</i>	<i>Lotus uliginosus</i>	<i>M. incognita</i> var. <i>acrita</i>
<i>Calopogonium mucunoides</i>	<i>Meloidogyne</i> sp.	<i>Lupinus</i> sp.	<i>Meloidogyne</i> sp.
<i>Capsicum annuum</i>	<i>M. incognita</i> var. <i>acrita</i>	<i>Lycopersicon esculentum</i>	<i>M. arenaria</i>
<i>Carica papaya</i>	<i>M. javanica</i>	<i>L. esculentum</i>	<i>M. incognita</i> var. <i>acrita</i>
<i>C. papaya</i>	<i>Meloidogyne</i> sp.	<i>L. esculentum</i>	<i>M. incognita</i>
<i>Celosia cristata</i>	<i>Meloidogyne</i> sp.	<i>L. esculentum</i>	<i>Meloidogyne</i> sp.
<i>Chrysanthemum</i> sp.	<i>Aphelenchoides ritzema-bosi</i>	<i>Medicago sativa</i>	<i>M. incognita</i> var. <i>acrita</i>
<i>Cucumis melo</i>	<i>M. incognita</i> var. <i>acrita</i>	<i>Mimosa invisa</i>	<i>M. incognita</i> var. <i>acrita</i>
<i>C. sativus</i>	<i>Meloidogyne</i> sp.	<i>Nicotiana tabacum</i>	<i>M. incognita</i> var. <i>acrita</i>
<i>Cucurbita pepo</i>	<i>M. incognita</i> var. <i>acrita</i>	<i>N. tabacum</i>	<i>Meloidogyne</i> sp.
<i>Cyphomandra betacea</i>	<i>Meloidogyne</i> sp.	<i>Oryza sativa</i>	<i>Meloidogyne</i> sp.
<i>Dahlia variabilis</i>	<i>Meloidogyne</i> sp.	<i>Pastinaca sativa</i>	<i>M. incognita</i> var. <i>acrita</i>
<i>Daucus carota</i>	<i>M. javanica</i>	<i>P. sativa</i>	<i>M. javanica</i>
<i>D. carota</i>	<i>Meloidogyne</i> sp.	<i>P. sativa</i>	<i>Meloidogyne</i> sp.
<i>Dioscorea</i> sp.	<i>Pratylenchus</i> sp.	<i>P. sativa</i>	<i>Meloidogyne</i> sp.
<i>Flemingia congesta</i>	<i>Meloidogyne javanica</i>	<i>Phaseolus calcaratus</i>	<i>M. arenaria</i> <i>Thamesi</i>
<i>Flindersia collina</i>	<i>M. incognita</i> var. <i>acrita</i>	<i>P. calcaratus</i>	<i>M. javanica</i>
<i>Gerbera</i> sp.	<i>Meloidogyne</i> sp.	<i>P. lathyroides</i>	<i>M. javanica</i>
<i>Glycine max</i>	<i>Meloidogyne</i> sp.	<i>P. lunatus</i>	<i>M. incognita</i> var. <i>acrita</i>
<i>Helianthus annuus</i>	<i>M. javanica</i>	<i>P. mungo</i>	<i>M. incognita</i> var. <i>acrita</i>
<i>Hibiscus cannabinus</i>	<i>M. arenaria</i>	<i>P. vulgaris</i>	<i>M. arenaria</i>
<i>H. cannabinus</i>	<i>Meloidogyne</i> sp.	<i>P. vulgaris</i>	<i>M. incognita</i> var. <i>acrita</i>
<i>H. esculentus</i>	<i>M. incognita</i> var. <i>acrita</i>	<i>P. vulgaris</i>	<i>Meloidogyne</i> sp.
<i>H. rosa-sinensis</i>	<i>M. incognita</i> var. <i>acrita</i>	<i>Pogostemon cablin</i>	<i>Meloidogyne</i> sp.
<i>H. rosa-sinensis</i>	<i>Meloidogyne</i> sp.	<i>Psophocarpus tetragonolobus</i>	<i>M. incognita</i>
<i>Impatiens balsamina</i>	<i>Meloidogyne</i> sp.	<i>Solanum mammosum</i>	<i>Meloidogyne</i> sp.
<i>Impatiens</i> sp. (probably <i>I. lawleri</i>)	<i>M. hapla</i>	<i>S. melongena</i>	<i>Meloidogyne</i> sp.
		<i>Tephrosia candida</i>	<i>Meloidogyne incognita</i>
		<i>T. candida</i>	<i>M. javanica</i>
		<i>Trifolium repens</i>	<i>Meloidogyne</i> sp.
		<i>T. ruppelianum</i>	<i>M. incognita</i> var. <i>acrita</i>
		<i>Zinnia elegans</i>	<i>Meloidogyne</i> sp.

HYPERPARASITES

Host plant	Host	Hyperparasite
<i>Apluda mutica</i>	<i>Uromyces inayati</i>	<i>Eudarluka australis</i>
<i>Codiaeum variegatum</i>	<i>Asteridiella entebbeensis</i> v. <i>codiaei</i>	<i>Helminthosporium capense</i>
<i>C. variegatum</i>	<i>A. entebbeensis</i> v. <i>codiaei</i>	<i>H. insigne</i>
<i>Cymbopogon flexuosus</i>	<i>Puccinia nakanishikii</i>	<i>Eudarluka australis</i>
<i>Digitaria caledonica</i>	<i>Uromyces peglerae</i>	<i>E. australis</i>
<i>Digitaria</i> sp.	<i>Puccinia oahuensis</i>	<i>E. australis</i>
<i>Fimbristylis dichotoma</i>	<i>Uredo</i> sp.	<i>E. australis</i>
<i>Heteropogon contortus</i>	<i>Puccinia versicolor</i>	<i>E. australis</i>
<i>Imperata arundinacea</i> v. <i>koenigii</i>	<i>Hypocrella</i> sp.	<i>Sirosperma hypocrellae</i>
<i>Imperata cylindrica</i>	<i>Puccinia microspora</i>	<i>Eudarluka australis</i>
<i>I. cylindrica</i>	<i>Puccinia rufipes</i>	<i>E. australis</i>
<i>Ischaemum digitatum</i>	<i>Uredo</i> sp.	<i>E. australis</i>
<i>Mangifera indica</i>	<i>Meliola manigerae</i>	<i>Helminthosporium dorycarpum</i>
<i>Medicago sativa</i>	<i>Uromyces medicaginis</i>	<i>E. australis</i>
<i>Pedilanthus</i> sp.	<i>Oidium</i> sp.	<i>Cicinnobolus cesatii</i>
<i>Phragmites communis</i>	<i>Puccinia magnusiana</i>	<i>Eudarluka australis</i>
<i>Phragmites</i> sp.	<i>Meliola</i> sp.	<i>Calloriopsis gelatinosa</i>
<i>Polytoca macrophylla</i>	<i>Phyllachora</i> sp.	Hyperparasite
<i>Rhododendron loranthiflorum</i>	<i>Asterina</i> sp.	<i>Dimereium</i> sp.
<i>R. loranthiflorum</i>	<i>Asterina</i> sp.	<i>Cicinnobella</i> sp.
<i>R. loranthiflorum</i>	Sterile melioliaceous mycelium	<i>Mycophaga</i> sp.
<i>Saccharum edule</i>	<i>Puccinia kuehnii</i>	<i>Eudarluka australis</i>
<i>S. officinarum</i>	<i>P. kuehnii</i>	<i>E. australis</i>
<i>S. officinarum</i>	<i>P. kuehnii</i>	<i>Hendersonia uredinophila</i>
<i>S. robustum</i>	<i>Phyllachora</i> sp.	<i>Cryptodidymosphaeria clan-</i> <i>destina</i>
<i>S. robustum</i>	<i>P. kuehnii</i>	<i>E. australis</i>
<i>S. spontaneum</i>	<i>P. kuehnii</i>	<i>Hendersonia uredinophila</i>
<i>Setaria montana</i>	<i>Puccinia elgonensis</i>	<i>E. australis</i>
<i>S. pallide-grisea</i>	<i>P. elgonensis</i>	<i>E. australis</i>
<i>Sorghum nitidum</i>	<i>Puccinia purpurea</i>	<i>E. australis</i>
<i>S. vulgare</i>	<i>P. purpurea</i>	<i>E. australis</i>
<i>Thysanolaena maxima</i>	<i>Uredo</i> sp.	<i>E. australis</i>
<i>Zea mays</i>	<i>Puccinia polysora</i>	<i>E. australis</i>
<i>Z. mays</i>	<i>Puccinia sorghi</i>	<i>E. australis</i>

ENTOMOGENOUS FUNGI

(The insect host closely associated with a plant)

Associated plant	Host ¹	Fungus
<i>Capsicum</i> sp.	Coccids (<i>Pseudaulacaspis pentagona</i> (Targ.))	<i>Septobasidium</i> sp.
<i>Citrus reticulata</i>	Insect	<i>Septobasidium</i> sp.
<i>Citrus</i> sp.	Insect	<i>Septobasidium</i> sp.
<i>Citrus</i> sp.	Insect	<i>Myriangiium</i> sp.
<i>Citrus</i> sp.	White scale	<i>Pseudomicrocera henningsii</i>
<i>Coffea canephora</i>	Insect	<i>Hypocrella scutata</i>
<i>Crotalaria anagyroides</i>	Insect	<i>Septobasidium bogoriense</i>
<i>Derris</i> sp.	Probably on scale insects	<i>Fusarium derridis</i>
<i>Ficus</i> sp.		<i>Aschersonia novoguineensis</i>
<i>Heliconia</i> sp.		<i>Septobasidium</i> sp.
<i>Hibiscus rosa-sinensis</i>	Scale	<i>Septobasidium</i> sp.
<i>Manihot utilissima</i>	Insect	<i>Septobasidium</i> sp.
<i>Metroxylon rumphii</i>	Insect	<i>Aschersonia</i> sp.
<i>Nothofagus perryi</i>	Insect	<i>Septobasidium</i> ? <i>albidum</i>
<i>Poncirus trifoliata</i>	Insect	<i>Septobasidium</i> sp.
<i>Imperata arundinacea</i> var. <i>konigii</i>		<i>Septobasidium</i> sp.
<i>Piper</i> sp.		<i>Hypocrella plana</i>

¹ In most cases the remains of the insect host are unidentifiable.

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COMMON NAMES OF HOST PLANTS WITH THEIR BOTANICAL EQUIVALENTS

Abaca	<i>Musa textilis</i>	Hibiscus	<i>Hibiscus</i> sp.
African violet	<i>Saintpaulia ionantha</i>	Jerusalem artichoke	<i>Helianthus tuberosus</i>
"Aibica"	<i>Hibiscus manihot</i>	Job's tears	<i>Coix lachryma-jobi</i>
Balsa	<i>Ochroma lagopus</i>	Jute	<i>Corchoris olitorius</i>
Balsam, garden	<i>Impatiens balsamina</i>	Kapok	<i>Ceiba pentandra</i>
,, native	<i>Impatiens</i> sp. probably <i>I. lawkeni</i>	,, yellow flowered	<i>Cochlospermum gillivrayi</i>
Bamboo	<i>Bambusa</i> sp.	"Kunai"	<i>Imperata cylindrica</i>
Banana	<i>Musa</i> spp.	Leek	<i>Allium porrum</i>
Banana passionfruit	<i>Tasconia mollissima</i>	Lemon	<i>Citrus limon</i>
Bean, French, dwarf	<i>Phaseolus vulgaris</i>	Lettuce	<i>Lactuca sativa</i>
,, Jack	<i>Canavalia ensiformis</i>	Loquat	<i>Eriobotrya japonica</i>
,, winged	<i>Psophocarpus tetragonolobus</i>	Lucerne	<i>Medicago sativa</i>
,, yard long	<i>Vigna sesquipedalis</i>	Lupins	<i>Lupinus</i> spp.
Beetroot	<i>Beta vulgaris</i>	Maize	<i>Zea mays</i>
Betel nut	<i>Areca catechu</i>	Mandarin	<i>Citrus reticulata</i>
Breadfruit	<i>Artocarpus incisus</i>	Mango	<i>Mangifera indica</i>
Brussel sprouts	<i>Brassica oleracea gemmifera</i>	Mangosteen	<i>Garcinia mangostana</i>
Cabbage	<i>Brassica oleracea</i> var. <i>capitata</i>	Manila hemp	<i>Musa textilis</i>
Cacao	<i>Theobroma cacao</i>	Melon, sweet	<i>Cucumis melo</i>
Candle tree	<i>Tripetalum</i> sp.	Nasturtium	<i>Tropaeolum</i> sp.
Cane grass	<i>Saccharum spontaneum</i>	Oats	<i>Avena sativa</i>
Carnation	<i>Dianthus caryophyllus</i>	Okra	<i>Hibiscus esculentus</i>
Carrot	<i>Daucus carota</i>	Onion	<i>Allium cepa</i>
Cashew nut	<i>Anacardium occidentale</i>	Orange	<i>Citrus sinensis</i>
Cassava	<i>Manihot utilissima</i>	Palm, nipa	<i>Nipa fruticans</i>
Castor oil	<i>Ricinus communis</i>	,, oil	<i>Elaeis guineensis</i>
Cauliflower	<i>Brassica oleracea</i> var. <i>botrytis</i>	,, sago	<i>Metroxylon rumphii</i>
Chickory	<i>Cichorium intybus</i>	,, sago, bush	<i>Metroxylon</i> sp.
Chili	<i>Capsicum annuum</i>	,, travellers	<i>Ravenala madagascariensis</i>
Choko	<i>Sechium edule</i>	Papaw	<i>Carica papaya</i>
Citron	<i>Citron medica</i>	Parsnip	<i>Pastinaca sativa</i>
Clover, white	<i>Trifolium repens</i>	Passionfruit	<i>Passiflora edulis</i>
Cocoa	<i>Theobroma cacao</i>	Peach	<i>Prunus periscae</i>
Coconut	<i>Cocos nucifera</i>	Peanut	<i>Arachis hypogoea</i>
Coffee arabica	<i>Coffea arabica</i>	Peas	<i>Pisum sativum</i>
Coffee robusta	<i>C. canephora</i>	Pepper	<i>Piper nigrum</i>
Corn	<i>Zea mays</i>	Pigeon pea	<i>Cajanus cajan</i>
Cosmos, golden	<i>Cosmos sulphureus</i>	Pine, Klinkii	<i>Araucaria hunsteinii</i>
Cotton	<i>Gossypium</i> spp.	,, hoop	<i>A. cunninghamii</i>
Cowpea	<i>Vigna sinensis</i>	,, milky	<i>Alstonia scholaris</i>
Croton	<i>Codiaeum variegatum</i>	Pineapple	<i>Ananas comosus</i>
Cucumber	<i>Cucumis sativus</i>	Pit-pit, edible	<i>Saccharum edule</i>
Dahlia	<i>Dahlia variabilis</i>	Poinciana	<i>Delonix regia</i>
Devils pitchfork	<i>Bidens pilosa</i>	Poinsettia	<i>Euphorbia pulcherrima</i>
Endive	<i>Cichorium endivia</i>	Pomegranate, ornamental	<i>Punica granatum</i>
Fig	<i>Ficus carica</i>	Potato	<i>Solanum tuberosum</i>
Frangipani	<i>Plumeria</i> sp.	Pumpkin	<i>Cucurbita pepo</i>
Ginger	<i>Zingiber officinalis</i>	,, native	<i>C. moschaeta</i>
Granadilla	<i>Passiflora quadrangularis</i>	Pyrethrum	<i>Chrysanthemum cinerariifolium</i>
Grapefruit	<i>Citrus paradisi</i>	Queensland umbrella tree	<i>Brassica actinophylla</i>
Grapes	<i>Vitis vinifera</i>		
Guava	<i>Psidium guajava</i>		
Grass, colombus	<i>Sorghum almum</i>		
,, couch	<i>Cynodon dactylon</i>		
,, kangaroo	<i>Themeda australis</i>		
,, nut	<i>Cyperus rotundus</i>		
,, papyrus, dwarf	<i>C. alternifolius</i>		

Radish	<i>Raphanus sativus</i>
Reed, common	<i>Phragmites communis</i>
Rhubarb	<i>Rheum rhabonticum</i>
Rice	<i>Oryza sativa</i>
" wild	<i>Oryza</i> spp.
Rose	<i>Rosa</i> sp.
Rosewood	<i>Pterocarpus indicus</i>
Rubber	<i>Hevea brasiliensis</i>
Russian comfrey	<i>Symphytum officinale</i>
Rye, " Black winter "	<i>Secale cereale</i>
Shallot	<i>Allium ascolonicum</i>
Silky oak	<i>Grevillea robusta</i>
Silver beet	<i>Beta vulgaris</i>
Sorghum	<i>Sorghum vulgare</i>
Soursop	<i>Anona muricata</i>
Soybean	<i>Glycine max</i>
Squash, golden, crooked neck	<i>Cucurbita maxima</i>
Strawberry	<i>Fragaria</i> spp.
Sugar cane	<i>Saccharum officinarum</i>

Sunflower	<i>Helianthus annuus</i>
Sweet potato	<i>Ipomoea batatas</i>
Tapa plant	<i>Broussonetia papyrifera</i>
Tapioca	<i>Manihot utilissima</i>
Taro	<i>Colocasia</i> sp.
" Kongkong	<i>Xanthosoma</i> sp.
Tea	<i>Camellia sinensis</i>
Teak	<i>Tectona grandis</i>
Tobacco	<i>Nicotiana tabacum</i>
Tomato	<i>Lycopersicon esculentum</i>
Watermelon	<i>Citrullus vulgaris</i>
Wheat	<i>Triticum aestivum</i>
Yam	<i>Dioscorea bulbifera</i> <i>D. esculenta</i> <i>Dioscorea</i> spp.
Zinnia	<i>Zinnia elegans</i>

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ANNOTATED LIST OF REFERENCES TO PLANT PATHOGENS AND MISCELLANEOUS FUNGI IN WEST NEW GUINEA¹

DOROTHY E. SHAW²

While examining records of plant pathogens and other microorganisms for the Territory of Papua and New Guinea (hereafter called T.P.N.G.) records for West New Guinea (hereafter W.N.G.) were noted at the same time because the proximity of that region made any information on diseases there of interest. To the author's knowledge, no list of published records has hitherto been compiled for West New Guinea and while every endeavour has been made to make this list as complete as possible, there could well be records which have not come to the author's attention.

The references and a short summary of the contents are given below, together with notes on the Reinking (Lloyd) and Archbold collections; new combinations are given where they are known to the author.

Annotated List of References for West New Guinea

BOEDIJN, K. B., 1937. A smut causing galls on the leaves of *Hypolytrum*. *Bull. Jard. Bot.*, Buit. III, 14: 368-372.

Described in this paper is *Contractella Lamii* Boedijn on *Hypolytrum* sp., collected at Prauwen Bivak, West New Guinea.

BOOTH, C., and DOROTHY E. SHAW, 1961. Black cross, caused by a new species of *Phyllachora* on banana. *Papua and New Guinea agric. Jour.* 13 (4): 157-159.

This paper described *Phyllachora musicola* C. Booth and D. Shaw, causing black cross disease on banana in West New Guinea, as well as in T.P.N.G. and in other areas in the Pacific.

BUGNICOURT, F., 1952. Note on the mycoflora of rice seed in the Territories of the South Pacific. *Revue de Mycologie*. Supplement Colonial, T.XVII, No. 12, *South Pac. Com. Technical Paper* No. 21.

The paper records the results of a survey of the mycoflora of rice seeds from countries in and around the South Pacific, including West New Guinea. Species recorded on seed from W.N.G. were as follows:

Curvularia geniculata, *C. lunata*, *Fusarium annulatum*, *F. moniliforme*, *F. scirpi* v. *caudatum*, *F. semitectum* v. *majus*, *Helminthosporium oryzae*, *Helminthosporium* sp., *Trichoconis padwickii*.

BUGNICOURT, F., 1955. Deux espèces nouvelles d'*Helminthosporium* isolées de demences de Riz. *Revue générale de Botanique*, Tome 62, p. 238.

One of the species described in this paper, *Helminthosporium Hawaiiense* Bugnicourt, was isolated from rice seed from West New Guinea. This species was previously listed as "*Helminthosporium* sp." (Bugnicourt 1952).

DUMBLETON, L. J., 1954. A list of plant diseases recorded in South Pacific Territories. *South Pac. Com. Tech. Paper* No. 78, 78 pp.

Listed herein are the records of Bugnicourt (1952) and Moll (1953).

GAUDICHAUD, C., 1826. Botanique, in L. de Freycinet, Voyage autour du Monde exécuté sur l'Uranie et la Physicienne, 1817-1820. Fungi by Persoon. Paris. Pp. 165-187.

These are the earliest records which have been traced for New Guinea. Over 30 species of fungi, of the genera *Agaricus*, *Daedalea*, *Polyporus*, *Hydnum*, *Thelephora*, *Gryoccephalus*, *Auricularia*, *Stictis*, *Sphaeria*, *Pyrenula*, *Verrucaria*, *Opegrapha*, *Emblemia* and *Ctesium*, were described

¹ Netherlands New Guinea prior to 1.10.62.; West Irian after 1.5.63.

² Principal Plant Pathologist, Department of Agriculture, Stock and Fisheries, Port Moresby.

by Persoon in this paper, from material collected on Rawak Island in December 1818 to January 1819. Rawak Island, now given as Lawak Island, is just over one minute south of the equator, near the island of Waigeo, off the west tip of West New Guinea.

GIBBS, L. S., 1917. Dutch N.W. New Guinea. A contribution to the phytogeography and flora of the Arfak Mountains and C. London. Taylor and Francis. Fungi by J. Ramsbottom, pp. 63-64 and pp. 185-190.

Included in the list of plants in this paper are fungi identified by J. Ramsbottom, the second group from the vicinity of Manokoeari, Humboldt Bay on the islands of Roon, Wakte and Wiak. The fungi are as follows :

Pages 63-64: *Podocrea Cornu-Damae* (Pat.) Lind., *Xylaria polymorpha* (Pers.) Grev., *X. domingensis* (Berk.) Sacc., *Omphalia arfakensis* Ramsbottom, *Xerotus cinnamomeus* Ramsbottom, *Hexagona apiara* (Pers.) Fr., *Leptothyrella sericoleae* Ramsbottom. Pages 185-190: *Pilocratera Hindsii* (Berk.) P. Henn., *P. novo guineensis* Ramsbottom, *Sarcosoma novo-guineensis* Ramsbottom, *Hirneola polytricha* (Mont.) Sacc., *Poria Gibbsiae* Ramsbottom, *Polyporus (Lentus) arcularius* Fr., *Hexagona apiaria* (Pers.) Fr., *Favolus scaber* B. and Br., *Pterula grandis* H. & P. Sydow, *Clavaria Gibbsiae* Ramsbottom, *Guepinia conferta* Ramsbottom, *Dictyophora phalloidea* Desv., *Geaster fimbriatus* Fr., *G. mirabilis* Mont. var. *trichifer* Lloyd, and *Cylindrophora epitrichia* Ramsbottom sp. nov., in setis *Sarcosoma novo-guineensis* (the fungus as listed above).

IMAZEKI, ROKUYA, 1952. A contribution to the fungus flora of Dutch New Guinea. *Gov. For. Exp. Sta., Meguro. Bull.* 57, pp. 87-128, plates I-XII.

This paper reports on collections made in 1943 by a scientific expedition of the Tokio Science Museum (now the National Science Museum) to the north-west of West New Guinea. More than 350 collections were involved, about 90% of these being pore fungi, the others belonging to Corticiaceae, Agaricaceae, etc.

The paper includes some phytogeographical considerations on the collections of Basidiomycete in the study; the 71 species being classified into the following six groups :

- (1) Cosmopolitan species : 6 species (8.5%).
- (2) Pan-tropical elements : 31 species (44%).
- (3) Pan-Pacific elements : 11 species (15%).
- (4) Far-eastern tropical elements : 17 species (24%).
- (5) Endemic species : 6 species (8.5%).
- (6) Australian elements : 0 species (0%).

Notes are given on new or newly adopted genera of Polyporaceae. Twelve plates are included in the paper.

JOHNSTON, A., 1961. A preliminary plant disease survey in Netherlands New Guinea. *Bull. Dept. Economic Affairs, Agric. Series, No. 4*, 55 pp.

The main part of the report consists of an annotated list of diseases discovered during the course of the survey in 1960 and two short visits, the majority of the fungi mentioned in the report having been identified by the staff of the Commonwealth Mycological Institute, Kew. Also included are notes on symptoms, control measures and other aspects of some diseases of importance. The many organisms listed are not repeated here.

MASSEE, G., 1916. Report on botany of Wollaston Expedition to Dutch New Guinea 1912-13. (Fungi by G. Masee.) *Trans. Linn. Soc. London*, 2 ser. 9 : 265-6.

This report includes records of *Ustilago montaniensis* Ell. & Ev. (*Jour. Myc.* VI : 119, 1890) on *Muehlenbergia arundinella* Ridl. Zundel (1953) gives *U. montaniensis* Ell. & Holw. (*Jour. Myc.* 8 : 141, 1902) as *Sphacelotheca montaniensis* (Ell. & Holw.) G. P. Clinton, although no New Guinea locality is mentioned.

The report also lists *Pleogibberella calamia* Berl. et Vogl. on young fruits of *Calamus klossii* Ridl., *Physarum leucopus* Rost. on bracts of *Tapeinochilus*, and *Polystictus affinis* Nees and *Lachnocladium rameale* Berk. & Br.

MOLL, H. W., 1953a. Outbreaks and new records. Netherlands New Guinea. Stem rot of cabbage. *F.A.O. Plant Prot. Bull.* 1, 7 : 109.

This note records the occurrence of a soft rot of cabbage of undetermined cause at Kota Nica.

MOLL, H. W., 1953b. Banana leaf spot; a new record. *F.A.O. Plant Bot. Bull.* 1, 11: 172-173, 1953.

This paper reports that bananas near Hollandia were severely affected by *Cercospora musae*, and that grey mould (probably *Botrytis cinerea*) was found on beans near Manokwari.

MOLL, H. W., 1954. Outbreaks and new records. Netherlands New Guinea. First record of sorghum anthracnose. *F.A.O. Plant Protection Bull.* 2, 8: 121.

Anthracnose, caused by *Colletotrichum* sp., is recorded on sorghums at Kota Nica.

NOBLES, MILDRED K., and BARBARA P. FREW, 1962. Studies in wood-inhabiting Hymenomycetes. V. The genus *Pycnoporus* Karts. *Can. Jour. Bot.* 40: 987-1016.

Included in this study were two collections made by Shaw at Serui, Japen Island, and at Bokondini, both in West New Guinea. The authors identified both collections as *Pycnoporus sanguineus* (L. ex Fr.) Murr. from genetical and morphological evidence.

SHAW, DOROTHY E., 1962. New record for Netherlands New Guinea. False rust on *Pueraria lobata*. *Trans. Papua and New Guinea Sci. Soc.*, 3: 18-19.

Recorded in this paper is *Synchytrium minutum* (Pat.) Gäum. on *Pueraria lobata* (Wild.) Ohwi.

STEVENSON, J. A., and EDITH K. CASH, 1936. The new fungus names proposed by C. G. Lloyd. *Bull. Lloyd Library and Museum of Botany, Pharmacy and Materia Medica*, No. 35, Mycol. series No. 8, 209 pp.

Included in this list are the following entries for West New Guinea: P. 217, *Polystictus affinis-luteus* Lloyd (*Myc. Writ.* 7: 1239, Jan. 1924); specimen 37100 (Type) H. J. Lam, 998, Prauwenbivak, Dutch New Guinea, Sept. 1920; p. 134, *Polystictus incisus* Lloyd (*Myc. Writ.* 7: 1155, pl. 219 (f. 2267), July 1922; 7: 1238, pl. 266 (f. 2628), Jan. 1924; specimen 45621, H. J. Lam, 800, Dutch New Guinea, Sept. 1920; p. 134, *Polystictus lamii* Lloyd (mycol.) *Writ.* 7: 1240, pl. 267 (f. 2634), Jan. 1924, specimen 56377 (Type) 56376, H. J. Lam, 188h, 802, Doorman River, Dutch New Guinea, Sept. 1920.

Also mentioned is: P. 102, *Polyporus dahlia* P. Henn. in herb. Lloyd *Myc. Writ.* 4: Ap. 373, June 1915, with the note that there are no specimens in Lloyd Herbarium, Type at Berlin from New Guinea. (The locality in New Guinea is not given and it is quite possible that it was north-eastern New Guinea.)

VAN OVEREEM, C., 1923. Beiträge zur Pilzflora von Niederländisch Indien. *Bull. Jard. Bot.*, Buit. Series III, Vol. 5, 4: 247-293; 7: 423-442.

This paper described *Clasterosporium glomeræ* v. Overeem on Orchidaceae (*Glomera subuliformis* J. J. Smith and *G. unifloræ* J. J. Smith).

I am indebted to Dr. M. B. Ellis of the Commonwealth Mycological Institute, England, for the following comment on this record: "*Clasterosporium glomeræ* van Overeem was made the type of a new genus *Overeemia* by Arnaud (*Bull. soc. mycol. Fr.* 69, 1954, p. 300). From the description and figures, however, it is almost certainly sterile hyphae of *Brooksia tropicalis* (syn *Helicosporium hendrickxii*)."

The locality of the type of the new genus *Brooksia* Hansford is Lae, T.P.N.G. (Hansford, 1956¹).

de WILDE de LIGNY, H. J., 1952. Outbreaks and new records, July-August, 1952. Netherlands New Guinea. *F.A.O. Plant Prot. Bull.* 1, 2: 29.

Bacterial wilt (*Pseudomonas solanacearum*) on tomato, ground nuts and eggplants at several localities are recorded in this paper.

ZUNDEL, G. L., 1953. The Ustilaginales of the world. *Dept. Botany, Pennsylvania State College Contribution No. 176*, p. 39.

This refers to the record of *Cintractiella Lamii* Boedijn on *Hypolytrum* sp. (Boedijn 1937).

¹ Hansford, C. B., 1956. Australian Fungi. III. New species and revisions (cont.). *Proc. Linn. Soc.* 81, 1: 23-51 (pp. 32-34).

Collections of Reinking, Forwarded to Lloyd and Shear

I am indebted to Dr. R. J. Benjamin, Principal Mycologist, Crop Protection Research Branch, U.S.D.A., Beltsville, U.S.A., for the following information :

In 1926 Otto Reinking collected some 460 specimens from the Dutch East Indies, of which 371 were from West New Guinea. The collections were sent to C. G. Lloyd for identification and a duplicate set was also sent to Beltsville to Dr. C. L. Shear. Lloyd died the following year before he had them identified and his set then went to Beltsville also with his herbarium. Over the years, members of the staff, primarily Mr. J. A. Stevenson, identified some of the collections.

The collection details of the specimens are as follows :

- Nos. 1A to 93A inclusive. Collected in the Mamoemar, Kwatisori and Wainami regions of Geelvink Bay, Dutch New Guinea, June 7 to 17, 1926. On dead trees and wood.
- Nos. 94A to 121A inclusive. Collected at the village of Mamboor on the Haarlem Islands, Dutch New Guinea, June 16, 1926. On dead trees.
- Nos. 122A to 222A inclusive. Collected at Momi, Geelvink Bay, Dutch New Guinea, June 30 to July 2, 1926. On dead trees and wood.
- Nos. 223A to 371A inclusive. Collected at Siwi in Arfak Mountains, altitude 500 metres (back of Momi), Dutch New Guinea, June 26 to 29, 1926. On dead trees and wood.
- Nos. 372A to 460A inclusive. Collected in Dutch East Indies at localities outside Dutch New Guinea.

Dr. Benjamin has kindly forwarded a copy of the identifications made to date as mentioned above to the Herbarium, Department of Agriculture, Stock and Fisheries, Port Moresby, where it will be lodged. It might be that at some future date a member of the staff of the National Fungus Collections, Plant Industry Station, Beltsville, or some other specialist, will be able to work over these collections and publish a complete list of the specimens.

Collections Made by the 1938-39 Archbold Expedition

Mr. L. G. Brass, botanist with the above expedition, has informed me (personal communication) that 36 collections of fungi were made in West New Guinea during 1938-39. The collections were deposited at the Arnold Arboretum and are probably now at the Farlow Herbarium.

Lichens

The paper by Lamb on "*Compsocladium*, a new genus of lichenized ascomycetes" (*Lloydia*, 18 : 157-162, 1956) is not listed herein, and no attempt has been made to include other references on lichens.