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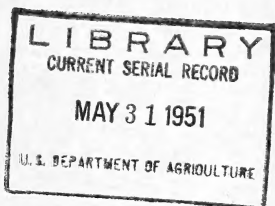


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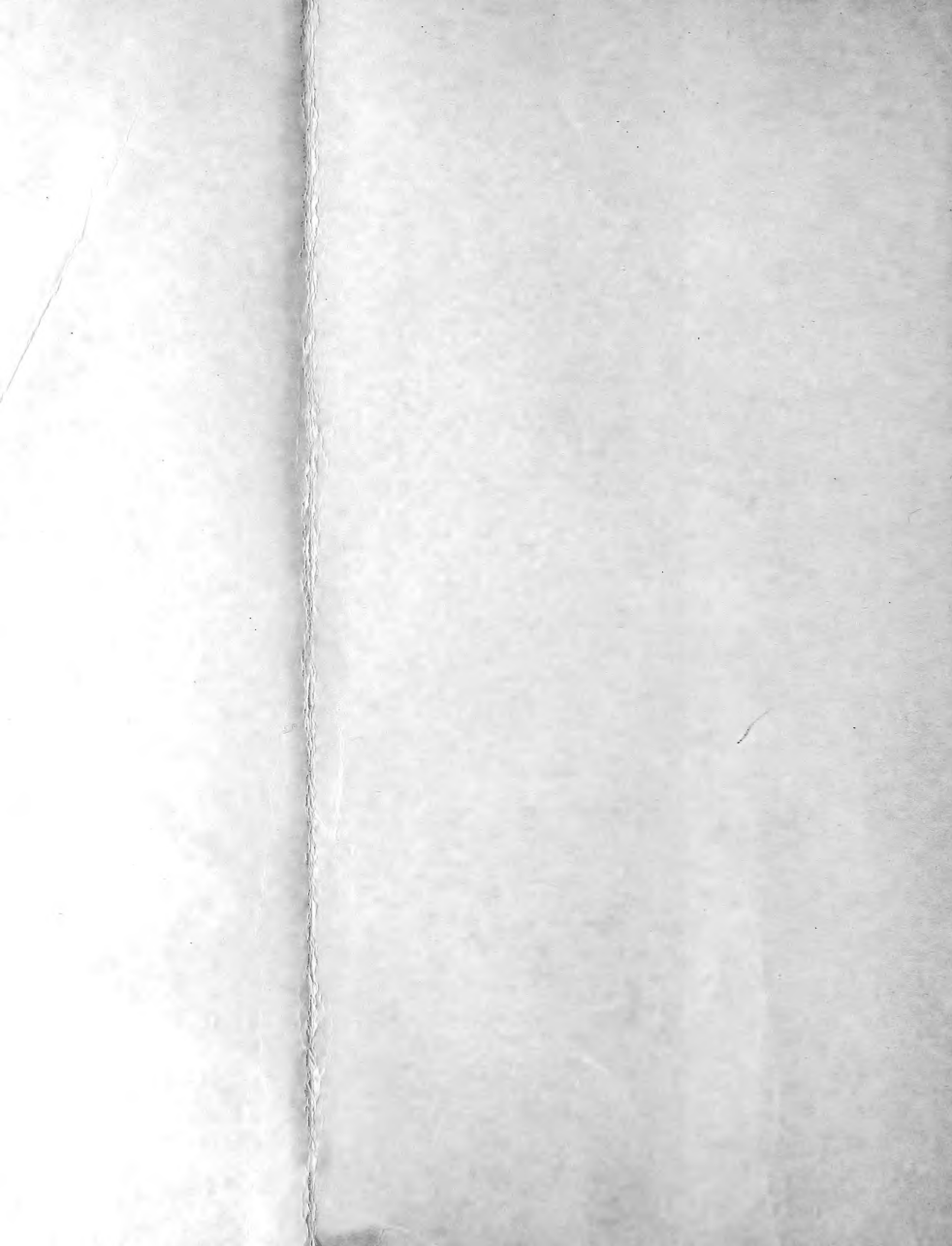
Issued February 1951

A BIBLIOGRAPHY OF PLANT PATHOLOGY IN THE TROPICS AND IN LATIN AMERICA

Compiled
Helen V. Barnes and Jessie M. Allen, Bibliographers
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PREFACE

This bibliography containing references on plant pathology in the tropics and Latin America covers the years 1937-1949. Subtropical regions have not been considered except in South America. Material prior to 1937 is contained in the following bibliographies:

- COOK, M. T. Host index of virus diseases of plants. P. R. U. J. Agr. 19:315-406. July 1935. 8 P32J
Sup. 1, P. R. U. J. Agr. 20:691-727. July 1936.
Sup. 2, P. R. U. J. Agr. 22:411-435. July 1938.
- COOK, M. T. Index of the vectors of virus diseases of plants. P. R. U. J. Agr. 19:407-420. July 1935. 8 P32J
Sup. 1, P. R. U. J. Agr. 20:729-739. July 1936.
Sup. 2, P. R. U. J. Agr. 22:437-439. July 1938.
- HEALD, F. D. Manual of plant diseases. Ed. 2. New York, McGraw-Hill, 1933. Ref. 464 H34M
- NEWHALL, A. G. An annotated bibliography of some of the more important papers on the Phytophthora pod rot of cacao (cleaned mostly from the Review of Applied Mycology 1922 to 1948, arranged chronologically). 21 p., processed, [1948?]
- OTERO, J. I., and COOK, M. T. A bibliography of mycology and phytopathology of Central and South America, Mexico and the West Indies. P. R. U. J. Agr. 21:249-286. July 1937. 8 P32J
- OTERO, J. I., and COOK, M. T. Partial bibliography of virus diseases and plants. P. R. U. J. Agr. 18:410 p. Jan./Apr. 1934. 8 P32J
Sup. 1, P. R. U. J. Agr. 19:129-313. Apr. 1935.
Sup. 2, P. R. U. J. Agr. 20:741-819. July 1936.
Sup. 3, P. R. U. J. Agr. 22:263-409. July 1938.
- STEVENSON, J. A. Foreign plant diseases... a manual of economic plant diseases which are new to or not widely distributed in the United States. Washington, Govt. Print. Off., 1926. 198 p. 1 F31F

The arrangement is alphabetical by author. In the Index of Plant Diseases, diseases are grouped under the scientific name of the host plant as given in Standardized Plant Names. Cross references are made to the scientific name of the host from the common name in English, Spanish and Portuguese. When several diseases of one plant are discussed in one article or when the name of the disease is not known, the article is indexed under the subhead, diseases, which is further subdivided geographically. When diseases of several plants are discussed the publication is indexed under Plant diseases with geographical subdivisions. The index includes also the names of causal organisms.

The Name Index includes the names of secondary authors, editors, and any others, either persons or institutions, making a contribution to the publication indexed. Names used as subjects are included. Since the primary arrangement of the references is by author, the name of the first author of each publication is omitted from the Name Index.

Material which was not available for examination is marked with an asterisk (*).

Call numbers following the citations are those of the U. S. Department of Agriculture Library unless otherwise noted.

Grateful acknowledgment is made to Dr. Frederick L. Wellman, Field Consultant in Plant Pathology, Office of Foreign Agricultural Relations, U. S. Department of Agriculture, for his kind assistance and helpful suggestions.

Photoprint or microfilm copies of any items listed which are in the Library of the U. S. Department of Agriculture may be ordered from its Copying Service at the following prices:

Microfilm: \$1.00 for each 50 pages or fraction thereof from a single article or book.
Photoprint: \$1.00 for each ten pages or fraction thereof from a single article or book.

Sources Consulted

Catalogs
U. S. Department of Agriculture Card Catalog, including Plant Science and Plant Pathology catalogs.

Bibliographies
Bibliography of Agriculture, July 1942-June 1950.
International Institute of Agriculture. Bibliography of Tropical Agriculture, 1937-1942.
Plant Science Literature, 1937-1942.

INTRODUCTION

No bibliography can be absolutely complete or up-to-date at publication when it deals with an active subject in the process of rapid development. At the very moment the bibliographers complete lists for printing or reference, more contributions will have appeared. There is also the danger of missing the obscurely published articles that remain hidden from view. Every care was exercised by Miss Barnes and Miss Allen to obviate these probabilities in their compilation of the literature on tropical and Latin American plant pathology. The result is, it is believed, that this is the best bibliography on that subject at present. It will be of interest and considerable assistance for many years to come, to pathologists everywhere, in the North Temperate Zone regions as well as in the world of the Tropics and in Latin America.

It might be well to define the geographical region that comprises the phrase "the Tropics and in Latin America" as it is used here. There had to be a limitation of some sort within which to confine the work. No attempt was made to include publications regarding North Temperate Zone questions that were applicable to tropical or Latin American problems. Such inclusions would have made the compilers' tasks almost endless. As it is, it required almost four years of work for Miss Allen who started it, and later made the compilers' tasks almost endless. During these years the bibliographers had to attend to many other duties and compile other lists, meanwhile piling up the references they sought on this subject. It will be seen that the majority of the citations are of Western Hemisphere origin and of research published from below subtropical United States. All of Latin America is included, although it involves the Temperate Zone areas of southern South America and the cool, high plateau and mountainous portions of the Tropics. Citations were also gathered, however, from workers in the Tropics of the Eastern Hemisphere.

The list here presented grew out of the recognitions of its great need in Latin America during the last 10 years. I was first interested in such a bibliography in 1929, but could never expend the time to develop it. Some years later it was cheering to learn from Dr. Mel T. Cook, himself in the Tropics, that such a list was being prepared. This finally appeared from Puerto Rico. The efforts of Cook and Otero were, and still are, invaluable. A much greater body of tropical workers has been publishing in the last 15 years, and some most inspiring work in the Tropics and Latin America has occurred since that time. Knowing how much the lists of Cook and Otero filled the need at that earlier time, it was considered both by the researchers and the bibliographers sufficient to start with 1937, and bring the compilation up to include 1950. He who wants to refer to works before that time will need to refer to the lists by Cook and Otero.

The bibliography by Miss Barnes and Miss Allen puts into the present day researcher's hands 76 pages of listed references. These are made up of 2395 citations with numerous very useful, succinct annotations. This list is a welcome tool by which the earnest student and investigator in the subject can find pertinent literature citations. He can likewise discover that the literature in the original, or as abstracts in review journals, is of great interest as an indication of progress. It is apparent, for one thing, that in many respects we in the Tropics and in Latin America are in enviable positions. Plant pathology is, in many cases, at approximately the same stage in progress as it was in the Temperate Zone at about the beginning of the century. Of course, in some of the more favored spots progress is much better than that, but in some places it is even less. On the whole, the person who is at work today in the Tropics is treading on what will later be holy ground, for he is laying the foundations for the science of the future. What is being done now, and what is being planned, will color the body of that science for generations to come.

It is, however, not altogether to the future that we must look. It is impressive to study the older works. As one becomes more and more familiar with earlier published tropical experience he discovers that there has been much fine, modestly presented study in the past. One is bound at times after he knows and appraises them to feel that many of the investigations that were carried on in Latin America, in its Tropics, Subtropics, and temperate regions, have perhaps been given too little recognition in centers of teaching and study in the Temperate Zone of either Europe or North America. Part of this is neglect, part is due to language differences, and part to obscurity of publication media. One of the desirable end products of this bibliography is that it will result in a better distribution of information concerning that which has already been done. Things will no longer be hidden that are included in it since copies of the cited papers can be referred to or obtained from or in the Library of the United States Department of Agriculture in Washington. Anyone can secure them. This bibliography will perform a useful service also in indicating the professional employed people, the institutions, and the areas where further contributions are being made in increasing quantity and quality.

It is clear that much of the basic knowledge of plant pathology has been brought to its present high state in the Temperate Zone. This will inevitably continue. Nevertheless, it needs to be known that there is also growing up a large body of knowledge worked out in, and applicable specifically to the Tropics. Temperate Zone pathologists in many places are, on the whole, much more advantageously furnished with better and newer equipment and materials for study and control of diseases. They enjoy larger subsidies for their work than are usually found in other parts of the world and are, also, solving their problems through researchers and control practices in the midst of a comparatively wealthy economy.

Tropical pathologists in many cases find it necessary to work with almost nothing, and sometimes even against opposition from superstition or the lack of an understanding public, although it would gain greatly by research. Often special tools for disease control are practically nonexistent. In addition, when, from reference to Temperate Zone experience, chemical means of combating plant disease losses are a logical indication in the Tropics, they often cannot be used. This may be directly due to high cost of transportation of foreign chemicals and equipment, and the presence of labor that is not only illiterate but through tradition is unprepared to use the more highly technological methods. There are likewise to be considered ecologic factors of the Tropics such as excess rains, seasons of prolonged mistiness, high relative humidities, steep slopes of fields, and extensive growth of crops under shade of jungle and planted trees.

It behooves the thoughtful worker in the Tropics to re-study disease problems that have previously been well solved for the Temperate Zone. He has to come to grips with the matter of plant disease control by farming people living in a difficult environment made more troublesome because of lack of human requisites. He must often devise a system to reduce disease losses through some well studied changes in simple cultural practices. Wherever possible he must take advantage of natural means of ameliorating disease effects without recourse to costly treatments and chemical applications. For such reasons it may well be that the Latin American or tropical pathologist has to indeed become more conversant with finer details of phenomena in plant disease problems than his Temperate Zone colleagues. Such considerations make compilation of this bibliography of even greater value to tropical workers than the same kind of a compilation would have for workers in the Temperate Zone. It seems not unlikely as time goes on and more work is done in the Tropics that the greatest contributions regarding such phases of life histories of disease organisms, host-parasite relations, disease resistance, and human factors related to plant disease control practices, will come from the Tropics and from the well-trained but less-specialized researchers such as must develop in less favored areas.

I have found an increasingly large group of tropical plant pathologists that is impatient with Temperate Zone pathologists who seemingly disregard publications from tropical work. They hold that studies from the Temperate Zone are quoted freely in the Tropics, but the reverse is not likely to occur. They believe it unfortunate for students in the Temperate Zone. Much of this is due to oversight, and that will undoubtedly be obviated to a large extent by the use of this bibliography. While it was prepared in the Library of the United States Department of Agriculture, it can be seen at a glance that it has regional but no linguistic or national boundaries. It is also obvious that tropical pathologists have not always been in close enough touch with each other. The use of this bibliography will reduce the problem of obscurity and help in intercommunication of scientific results in the area it covers and as well the rest of the world.

In closing, I wish to express the appreciation of many pathologists in different areas who have awaited the bibliography while it was in preparation. Its appearance will fill a great need and good use will be made of it. I have been helped by both Miss Allen and Miss Barnes for a long time in my library contacts. This has occurred to many others in the Tropics, and this bibliography is, in a sense, a culmination of these efforts and a forehanded answer that the bibliographers must have known would come to them sooner or later. It is, I believe, a notable step in the history of the subject, and will be a force in the stimulation of even more discriminative research in plant pathology in Equatorial Regions.

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February 16, 1951

Compiled by Helen V. Barnes and Jessie M. Allen, Bibliographers
Library, United States Department of Agriculture

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- Earlier reports are similar; later reports are not available.
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12, The *Diplodia* danger, 13, *Diplodia* and field hygiene. 14, Seasonal notes on plant diseases, 15, The tobacco "krommek" virus in Rhodesia, 16, The campaign against the *krommek* virus.

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Diseases of coffee.

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1085. HUGHES, C. G. The hot-water treatment of plants on the farm. *Queensland. Bur. Sugar Expt. Stas. Cane Growers' Q. B.* 11:166-168, illus. Apr. 1, 1948. 65.9 Q3C

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1090. HUMPHRIES, E. C. Studies in the physiology of *Theobroma cacao*, with special reference to the effect of soil. I. IV. *Imper. Coll. Agr. [Trinidad] Cacao Res. Ann. Rpt.* (1939) 9:33-42, 43-46, 47-51. (1940) 10:12-22; (1941) 43:11-23, 27. 1940-44. 68.39 C11

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1091. HUTCHINSON, J. B. A note on testing cotton strains for homozygosity in wilt resistance. Conf. Sec. Res. Work Cotton India (1937)1:325-327. 1938. 72.9 C764
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 Results of the work of the Department of Plant Pathology of the College of Agriculture at Los Baños, Laguna.

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1609. OCHOA, Q. Enfermedades causantes de la pérdida de las cosechas de papa en el Distrito de Jimenez Jimenez, Chih. Agricultura [Mexico] 2(11):35-37, illus. Mar./Apr.1939. 8 Ag823
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1614. OLIVEIRA, J. M. Plant-parasitic and free-living nematodes in Hawaii. Bernice P. Bishop Mus. Occas. Papers 15:361-373. July 15,1940. 500 B450
 Annotated list of species attacking the two major crops, sugarcane and pineapple.

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 French summary.

1616. OPSOMER, J. E. Observations sur la mosaïque du manioc. In Journées d'Agron. Colon. (Koloniale Landbouwdagen, 1937) p. 305-311. Louvain, 1937. 5 J82
 Belgian Congo

1617. ORELLANA, R. La sigatoka; una nueva enfermedad del banano. Flora [Quito] 2(3/4):117-119. May 1942. 450 F662
 Leaf spot caused by Cercospora musae in Ecuador.

1618. ORIAN, G. Artificial hosts of the sugar cane leaf scald organism. Rev. Agr. de l'Ile Maurice 21:285-302, illus. Nov./Dec.1942. 24 M44
 Bacterium abillineans.

1619. ORIAN, G. Bud rot of the Areca nut palm in Mauritius. Rev. Agr. de l'Ile Maurice 27:271-275, illus. Nov./Dec.1948. 24 M44
 Xanthomonas vasculorum.

1620. ORIAN, G. Bud rot of the royal palm in Mauritius. Rev. Agr. de l'Ile Maurice 26:223-256, illus. Sept./Oct.1947. 24 M44
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1621. ORIAN, G. Deux maladies bactériennes de la canne à sucre à Maurice. Rev. Agr. de l'Ile Maurice 21:153-166. July/Aug.1942. 24 M44
 Gummosis (Bacterium vasculorum) and leaf scald (Bacterium abillineans)

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Ustilaginaceae, Tilletiaceae.

INDEX OF NAMES*

Item	Item	Item	Item
Abalos R	15 Bertus L S	482 Chona B L	2064 Emden J H van
Abrego L	608 Bitancourt A A	772 774 Choudhry K R R	1650
Acosta D R y. See Ramón y	775 778 1114 1116	1115 1492 Cnupp C	1492 Favret E A
Acosta D.	1117-1119 1121 1123	546 1523 Ciccarone A	1932 2226 2232
Acuña J	2393 1124 1125 1127 1128	2085 Clouston T W	1332 2184
Adsuar J	1856 1857 1887 1130	1364 Conant R K	1671 1672 1674
Agati J A	1705 Boock O J	189 Coons G H	1876
Agüero R	348 Botero R. O. See Obregón	Correa A B. See Bernal	Ferreira C
Aiyappa M	1795 Botero R	Correa A.	307
Aleley R V	1453 Bouriquet G	Costa A S	12 190 192 337
Alcalde Lassalle A J	2289 Bouriquet L	824 964 1237 1464	1464
Alfaro Cardoso J G. See	2294 Brandão J S Filho. See Soares	1465 1864	Figueroa E R Jr
Cardoso J G A.	Brandão J Filho.	Costa Neto J P da. See Neto	Filho A C. See Caminha
Albert H	1292 1293 Brandes E W	189 J P C da.	Filho A C.
Allan F E	1038 Briant A K	2038 Coste A C Delle. See Delle	Fischer J
Alvim G B	1020 Burton M G	1440 Coste A C.	Flores Cáceres S
Amaral J Franco do. See	1814 Calica C	932 Coste A D	Fluiter H J de
Franco do Amaral J	1185 Calmins M R	1441 Cotterell G S	Forster C E
Andrade A C de	2084 Campi M D	158 Couceiro E M	Forster R
Andrews F W	1795 Burton M G	652 1370 Crandall B S	336-338 573
Angell H R	1025 Cardoso A S	1933 Cristobal U L. See Lopez	574 576 584 586
Arango O	655 2222 Cardoso S B	1976 Cristobal U.	587 593 596
Arango R	348 Campos C E	1440 Crowdy S H	133 134 136
Arntsen S S T	2105 Cardona A N. See Navarro	1162 2334	136
Armando Garcia A	2101 Cardona A.	Cruz H M da	1235
Averna Sacca R. See	Cardoso L	Dale W T	123 126 136
Sacca R A	796 Carneiro H	159 1761	136
Aznarez M	831 Carvalho F M	204 Dastur J F	481
Bacchi O	1025 Carsner E	189 Davis W C	608 609 611
Bachy A	2040 Carvalho J C	1977 De Fluiter H J. See Fluiter	H J de
Badami V K	1025 Carvalho T de	1479 H J de.	1003 1009
Baker R E D	2040 Cash E K	1126 Deighton F C	1009
1916 2326 2334	358 Cass Smith W P	1769 Delle Coste A C	2301
Bakshi B K	150 Cassell R C	2049 Desai M K	2298
Balakrishnan M S	2136 Celino M S	1581 Deslandes J	89
Baptist E D C	176 1606 1607 1918 2288	Dhand G W	168
Barclay C	615 Centro Nacional de Agronomía	Dieguez C J	604 610
Barnell H R	2335 de El Salvador	Di Fonzo M A. See Fonzo	91
Bartlett H H	1298 Ceresa M C D	M A di.	1065
Bary Anton de	1300 Chacravarti A S	2291 2294 Dowson W J	25
Basset A	1293 Chardon C E	1168 Drummond O A	23
Bates G R	1075 1397 Charmoy D d'Emmerze de	2241 Drummond-Gonçalves R	91
Bell A F	1784 See Emmerze de Charmoy	Dutt A T	865
Bertelley W C	554 D. d'.	Dutt S C	923
Berta J A	2157 Chatterjee N I.	Dwyer R E P	1150
Bertelli J C	793 Chaves Batista A. See	1568 Drummond-Gonçalves R.	1568
Bertelli L K de 204	206 208 Batista A C.	Goodall D W	1762
2209		Grant T J	1464 1465

*Since the primary arrangement of the references is by author, the names of the first author of each publication is omitted.

	Item		Item		Item		Item
Greenslade R M	1210	Lima L T F	631	Padwick G W	1522	Souza O F de	588
Griffith A L	1815-1817	Lindner R C	1064	Palma M	1757	Spain L S	984
Guarach A M	204	Lindquist J C	2341	Parris G K	1015	Spezzazzini Carlos	1314
		Loos C A 878	880 883	Patel A F	1663	Speroni H A	1733
Hainsworth E	2111	1961	2111	Patel J S	2240	Srinivasan K V	2132
Hansford C G	1897	Lopes Torres H		Patel M K	1153	Stendl D R L	1086
Harrar J G	2050			Patino B	2210 2211	Stern J	515
Hauman Luciano	1347	Macaspac I S	1599	Peñaranda Canal F	608	Stevenson J A	911
Hendrickx F L	1232	McDonald J	1161	Peraira H F	646	Steyazzini L	1100 1285
Hendrix J W	844 845	McKee R K	133	Perez Toro A	794	Storey H H	730
	1064 1171 1172	Mácola T	862 863	Pickel B	2358	Storey W B	1064
Hernandez C C	368	Mahmud K A	101 105	Pickel B	394	Strickland A H	1762
Hipólito O	694	Mallamaire A	1877	Pierre-Louis F	415	Su M T	355
Hirschhorn J	1042-1048	Marchant A D	1781	Popham W L	1895	Subba Rao M K	2195
Hopkins J C	1852	Marcó P R	1794	Portsmouth G B	2049	Subramaniam C L	1802
Hosking H R	1036	Martin E B	333	Posnette F A	2111	Swingle C F	612
		Martín J P	422	1016	630 1441		
Ikeda W	1064 1240	Martyn E B	1106	1215			
Instituto Biológico São Paulo	261	Marudaranjan D	2135	Querijero A F	1881	Teixeira C G	2265
Irizarry Rubio G	827 828	Matsura M	1685	Rada G Garcia. See Garcia		Texera D A	1494 1495
Issouribehere P J	1433	Méendez M de L A	2111	Rada G		Thrumalachar M J	1508 1518
		Méendez G	446	Rafay S A	1654	Thurold C A	117 136
		Méendez C R	598	Ramakrishnan K	1797	Thung T H	1157 1177
Jaeg O	284	Mendonça G	2133	Ramakrishnan T S	1796 2132	Thurston H Jr	1163
Jenkins A E	232 240	Menon K K		2136		Tobler Bottini H D	200
	253 266 269	270				Tommerup E C	1291
	974 1781	Menor J.				Tothill J D	989-1001
Jensen D D	1084	Minor E C K	216	Rammathan K R	1167	Tubbs F R	485
Jensen J H	1775	Mitchell R S	1998	Rau S A	2061	Tugade P P	1655
Jha V R	1824	Mitra M	1841	Raychaudhuri S P	1020 2212	Uppal B N	223 288 401
Joffly J	1438	Mitra S K	98	Rayner R W	1160		
Johns R	335	Moniz L	1690 1695	Reiniger C H	1992		
Jones y Grout M	1147	1699		Reitsma J	737 2111	Vallega J	1932
Joshi S G	1149	Montero J J	2360	Remussi C	1202	Van Emden J H	2111
		Morales E	1785	Ribeiro dos Santos S	337	Varadaraja Iyengar A V. See	
Kalamkar R J	735	Mossop M C	1078	Ripperton J C	1682	Iyengar A V V.	
Kalyanasubramanyam S	1387	Muiholland J J	803	Rodrigues Campos A. See		Varma P M	398-402
Kamat M N	2202 2204	2210	143 1440	2115	Campos A R.	Vasconcellos L G de	837
	2211	Muller H R A	841	Rodrigues Lima A	337	Vélez Fortuño J	828
Kar P C	188	Munck C	193	Rodriguez A	1856 1857	Verdoorn F ed	1703
Karthauss J P	1841	Mundkur B B	2024	Romasanta R	1851	Vergara C C	1482
Kevoorkian A G	1775	Murray R K S	1897	Rosetti V	243	Verma P M	2209 2214
Kiehl J	581			Roy T C	920	Villamil G F	749
Kikuta K	844 845	1034		98		Viktoria E R	1613
Koch de Bertelli L. See Ber-		Nandi H K	1801	Saeger H de	1227	Voelcker O J	2365
telli L K de.		Narasimhalu I L	1515	Saha J C	1018 1019 1156		
Kramer M	1962 1963 1965	Narasimhai M J	1160	Saint-Hilaire A de	1131	Wallace G B	2097
	1969 1970 1972 1979	Natrasr R M	396	Salles J M	59	Wallace M M	2308 2313 2317
Lefevure	1982 1986	Neves C A das	2078	Santis L de	1433	2318	
		Nichols R F W	730 2075	Santoro R	796	Wardlaw C W	135 495
Krishnaswami C S	2130 2131			Santos S R	573	Webster M	1454
Krug H P	583 1126	Nikam B G	2203	Sarmah K C	1096 2189	Weij H G van der	657
Kulkarni N T	2213	Noll W	436 798	Schwelzer J	218	Weller D M	422
Kulkarni Y S	1693 1695 1697	Norbrega N R	1969 1975	Seth L N	1897	Wellman F L	2062
	1700	1983		Sharp C C T	590	2064	
Kylasam M S	496	Normanha E	2248	Silberschmidt K	1186 1418		
		Nowacki M J		1576 1577	1630-1633		
Lamb J	2111			Silberschmidt K M	1185	West J	2295 2296
Landaeta A R. See Rodriguez		Ocfemia G O	480	Singh K	651	Wickens G	1852
Landaeta A		Ofermann A M	659	Singh U B	879	Wiehe P O	1391
Langdon R F	1036	Orejuela C G. See Garcés		Sison D L	15	Wijers E E	2088
Larter N L H	1106			s'Jacob J C. See Jacob J C s'	554	Wiles D R D	151
Leal A R. See Ruiz Leal A.		Orian G	1391	Slogteren E van	1840		
Lefevure	1128	Orlando A	1185 1230	Slooff W C	1106	Yuan H F	1599
Lefevure R F	1114	Otero J I	561	Smith F E V	2131	Zabala S	659-661
Legleu R	1751	Otaya F J	1592	Smith K M	1806	Zayas F de	13
Leonard E R	2326 2330	2335		Soumini C K	1799 1800		
Leus-Palo S	1417	Padhye Y A	1891	2136			
Lima A R	336 573	584	1787 1788				

INDEX OF PLANT DISEASES

	Item		Item		Item	Item
Abaca. See <i>Musa textilis</i> .			<i>Alternaria burnsii</i>	2202	<i>Arachis hypogaea</i> --Cont.	<i>Bamb.</i> See <i>Bambusa vulgaris</i> .
Abacaitiro. See <i>Persea americana</i> .			<i>Alternaria longipes</i>	807 1073	scab	<i>Bambusa vulgaris</i>
Abacaxi. See <i>Ananas comosus</i> .			<i>Alternaria mali</i>	1316	seed treatment	ergot
Abutilon virus 1	1620	1147 1870 2150	<i>Alternaria solani</i>	220 959	virus diseases	fungus diseases
<i>Acacia julibrissin</i> . See <i>Albizia julibrissin</i> .			<i>Alternaria tomato</i>	307	wilt	root rot
<i>Acacia julibrissin</i> .			<i>Alternaria tenuis</i>	220	1089 1850	shoot rot
<i>Acacia leucophloea</i> rust	2122		<i>Altingia excelsa</i>		<i>Araucaria angustifolia</i>	<i>Banana</i> . See <i>Musa paradiisiaca sapientum</i> .
Acer			damping-off	1151	<i>Araucaria angustifolia</i> .	<i>Barillo tree</i> . See <i>Calophyllum brasiliense</i> .
leaf spot	836		dieback	1151	<i>Areca catechu</i>	<i>Barley</i> . See <i>Hordeum vulgare</i> .
Actinomycetes			<i>Ambyri hemp</i> . See <i>Hibiscus cannabinus</i> .		band disease	<i>Basil</i> . See <i>Ocimum ascendens</i> .
<i>Actinomyces gossypii</i>	1710		<i>Amexia amarella</i> . See <i>Eriobotrya japonica</i> .		bud rot	<i>Batata</i> . See <i>Solanum tuberosum</i> .
<i>Aegnetia indica</i>	962		Andromido. See <i>Arachis hypogaea</i> .		fruit rot	<i>Bauhinia</i> . See <i>Solanum tuberosum</i> .
<i>Aegnetia pedunculata</i>	1019		Ananá. See <i>Ananas comosus</i> .		koleroga disease	<i>Bean</i> . See <i>Phaseolus</i> ; <i>Vicia faba</i> .
<i>Agallia abidula</i>	190 1939		<i>Ananas comosus</i>		physiological diseases	<i>Beet</i> . See <i>Beta vulgaris</i> .
<i>Agave</i>			black rot	1821	<i>Arcaanupalm</i> . See <i>Areca catechu</i> .	<i>Bemisia</i>
anthracnose	459		diseases	1144	<i>Armillaria mellea</i>	<i>Bemisia tabaci</i>
fungus diseases	1265		Mexico	955	<i>Armillariella mellea</i>	1630
<i>Agave fourcroydes</i>	516		Panama	1144	<i>Arrheratherum elatius</i>	<i>Berberis aristata</i>
<i>Agave sisalana</i>			fruit rots	2142	smut	rust
black spot	2358		fungus diseases	518 1461	<i>Arrowroot</i> . See <i>Maranta arundinacea</i> .	<i>Berenjena</i> . See <i>Solanum melongena</i> .
diseases			rots	386 524	<i>Arroz</i> . See <i>Oryza sativa</i> .	<i>Berinjela</i> . See <i>Solanum melongena</i> .
Mexico	1711		stem-rot	524	<i>Aruda</i> . See <i>Ruta</i> .	
Yucatan	705 712		water blister disease	1274	<i>Arthraxon lanifolius</i>	
leaf disease	705 712		wilt	531	India	
necrosis	1400		yellow spot	1919 1920	Bombay	
physiological diseases	782		<i>Artocarpus sorghum</i> . See <i>Sorghum vulgare</i> .		<i>Artocarpus heterophyllus</i>	
<i>Ageratum conyzoides</i>			<i>Andriulium dipsis</i>	354 1794	rust	
yellow vein-banding	883		<i>Anguillulina pratensis</i>	875	<i>Arum</i>	
<i>Aguatea</i> . See <i>Persea americana</i> .			<i>Anguillulina similis</i>	1287	bacterial leaf spot	
Aji. See <i>Capsicum frutescens</i> .			<i>Annona cherimola</i>	875	<i>Ascochyta abelmoschi</i>	
Ajonjolí. See <i>Sesamum</i> .			anthracnose	226	<i>Ascochyta cherimoliae</i>	
Alamo. See <i>Populus</i> .			fungus diseases	1637	<i>Ascochyta citri</i>	
<i>Albizia</i>			<i>Annoneaceae</i>		<i>Ascochyta gossypii</i>	
Madagascar	1023		anthracnose	81	<i>Ascochyta melongenae</i>	
<i>Albizia julibrissin</i>			canker	81	<i>Ascomycetes</i>	
wilt	391		<i>Anona cherimolia</i> . See <i>Annona cherimolia</i> .		1126 1440	
<i>Albugo candida</i>	949		<i>Annona reticulata</i> . See <i>Annona reticulata</i> .		<i>Aspergillus</i>	
<i>Albugo tragopogonus</i>	1930		<i>Antestia</i>	1232	<i>Aspergillus flavus</i>	
<i>Aleurites fordii</i>			<i>Anthrophobasidium</i>	1855	<i>Aspergillus niger</i>	
canker	947		Anthracnose diseases	133	<i>Aspergillus wentii</i>	
diseases	842		2002		fungus diseases	
Madagascar	822		See also under names of hosts.		787 1932	
Nyasaland	2275		<i>Antirrhinum majus</i>	291	<i>Avena</i>	
fungus diseases	2275		leaf spot	1356	rust	
root rot	718		smut	1356	<i>Avocado</i> . See <i>Persea americana</i> .	
<i>Aleurites montana</i>			stem rot	1356	<i>Axonopus compressus</i>	
Java	1501		<i>Aphelechioideae</i>		mosaic	
<i>Aleyrodidae</i> (White fly)	1633		cocophillus	600 826 1235	<i>Azalea</i> . See <i>Rhododendron indicum</i> .	
Alfalfa. See <i>Lactuca sativa</i> .			1266 1268 1657		<i>Azotobacter agilis</i>	
Alfalfa. See <i>Medicago sativa</i> .			<i>Aphelechioideae olesistis</i>	1255		
Algodóiro. See <i>Gossypium</i> .			<i>Aphelechioideae cocophillus</i>	300	<i>Bacillus betle</i>	
Algodón. See <i>Gossypium</i> .			631 1634		<i>Bacillus cereus</i>	
Alho. See <i>Allium sativum</i> .			<i>Aphis maidis</i>	1435 1436	<i>Bacillus manihot</i>	
<i>Allium cepa</i>			<i>Aphis tavaresi</i>	1419	113 694	
diseases			Apió. See <i>Apium graveolens</i> dulce.		<i>Bacterial diseases</i>	
Argentina	1734		fungicides	1170	1445 1541	
Brazil	670 686		light blight	568 1108	1623 1861 2247	
Colombia			1489 1641 1748		See also under names of hosts.	
Ocaña	1592		<i>Aplanobacter stewartii</i>	1583	<i>Bactericides</i>	
Costa Rica	1375		1584		1479	
downy mildew	693		<i>Apple</i> . See <i>Malus pumila</i> .		<i>Bacterium albilineans</i>	
fungus diseases	1552 1561		<i>Arachis hypogaea</i>	1474	1612 1624	
1564 2019 2110			crown rot	1474	<i>Bacterium carotovorum</i>	
leaf spot	695		disease resistance and resistant varieties	1850	1691	
nematode diseases	1561		diseases		2306	
rot	553		Queensland	1475	<i>Bacterium ricinica</i>	
storage and transportation	2380		Uganda	994	<i>Bacterium solanacearum</i>	
rots	103 385		fungus diseases	224 2016	25	
white rot	103 385		leaf spot	1785 1851 1881	474 545 1018 1660	
<i>Allium sativum</i>			2160		1879 2246	
fungus diseases	2012		mosaic	1662 2153	<i>Bacterium tumefaciens</i>	
white rot	385		rosette	938 1662 1751	<i>Bacterium vasculorum</i>	
<i>Allomyces</i>	2385		2032		1621-1623 1625 1626	
Almendro. See <i>Prunus amygdalus</i> .					1763 1956	
Almond. See <i>Prunus amygdalus</i> .					<i>Bacterium visceratorum</i>	
<i>Alternaria</i>	534 727 1336				2042	
1371 1554 1773 2362					<i>Balanophora</i>	
<i>Alternaria brassicae</i>	93				<i>Balanisia claviceps</i>	
					<i>Balanisia oryzae</i>	
					<i>Bambo</i> . See <i>Bambusa vulgaris</i> .	

	Item		Item		Item	Item	
Broadbean. <i>See</i> <i>Vicia faba</i> .		Capsicum--Cont.		Cephaluros	2117	Citrus	
<i>Bromus catharticus</i>		fungus diseases	1773	<i>Cephaluros parasiticus</i>	2190	anthracnose	1505
smut	194	mildew	933	<i>Cephaluros elongatus</i>	1764	bacterial root rot	100
<i>Bromus unioloides</i> . <i>See</i>		mosaic	1856	<i>Cephalosporium</i>	607	black spot	455
<i>Bromus catharticus</i> .		pepper blight	1307	<i>Cephalosporium sacchari</i>	740	brown rot	345 509 860 867
Broomrape <i>Sida</i> . <i>See</i> <i>Sida</i>		rust	950	741 2083		861 863 866 867	
rhombifolia.		virus diseases	1738	<i>Ceratonia siliqua</i>		2103	
Broomrape. <i>See</i> <i>Orobancha</i> .		wilt	1306	anthracnose	461	chlorosis	871 2033
Bulo. <i>See</i> <i>Eleusine coracana</i> .		Capsicum annum. <i>See</i>		<i>Ceratophorum setosum</i>	1060	222 2086	
Bush redpepper. <i>See</i>		Capsicum frutescens.		<i>Ceratostomella fibrinata</i>	157	disease resistance and	
Capsicum frutescens.		Capsicum frutescens.		1373		resistant varieties	
		disease resistance and re-		<i>Ceratostomella paradoxa</i>	518	diseases	644 779 1209
		sistant varieties	2302	<i>Cercospora</i>	101 1492 2046	Argentina	603 768 1733
Cabbage. <i>See</i> <i>Brassica</i>		Peru		2328 2330 2331 2335		2034	
oleracea capitata.		Tacna	2093	<i>Cercospora apii</i>	1170	Australia	
Cacao. <i>See</i> <i>Theobroma</i>		fungus diseases	464 727	<i>Cercospora capsici</i>	1346	Queensland	277 278
cacao.		mildew	432	<i>Cercospora caribaea</i>	2269	1999	
Cacao virus 1A	1762	mosaic	1887	<i>Cercospora coffeicola</i>	870	Brazil	234 755 772 776
Cacao virus 1B	1762	wilt	1746	1457		778 1905 1907 1992	
Cacao virus 1C	1762	Caqui. <i>See</i> <i>Diospyros kaki</i> .		<i>Cercospora corchori</i>	519	Chile	72 731
Cacao virus 1D	1762	Caralluma diffusa		<i>Cercospora cruenta</i>	19	Colombia	1403
Cacaodiro. <i>See</i> <i>Theo-</i>		stem rot	147	<i>Cercospora fourcroyae</i>	1136	Fiji Islands	1667
broma cacao.		Carajota. <i>See</i> <i>Phaseolus</i>		<i>Cercospora hemingsii</i>	2269	India	1519
Caconema radiculata	1871	vulgaris.		<i>Cercospora musae</i>	37 38	Indonesia	1506
Cafeiro. <i>See</i> <i>Coffea</i> .		Cardamom. <i>See</i> <i>Elettaria</i>		41 52 56 65		Panama	1588
Cafete. <i>See</i> <i>Coffea</i> .		cardamomum.		495 647 1083 1139		Paraguay	775
Cajanus cajan		Carica papaya		1158 1164 1376 1425		Southern Rhodesia	154 1397
wilt	1447	bunchy top		1427 1429 1617 1645		feld disease	242 2274
Cal. <i>See</i> <i>Zantedeschia</i>		chlorosis	199	1647 1741 1750 1879		fungus diseases	73 499
aethiopica.		damping-off	2393	2001 2044 2048 2054		774 777 954 1212	
Calabash. <i>See</i> <i>Lagenaria</i>		diseases	221	2056 2322 2323		1339 1343 1702 1869	
vulgaris.		Australia		<i>Cercospora nicotiana</i>	1671	gummosis	26 71 95
Callally. <i>See</i> <i>Zantedeschia</i>		Queensland	636	1674 1675		124 344 441 501	
aethiopica.		Brazil	948	<i>Cercospora personata</i>	1785	744 862 1283 1880	
Calophyllum brasiliense	607	Cuba	66	1851 1851 2160		1391 1906 2014 2033	
wilt		East Africa	2308	<i>Cercospora phaeochlora</i>	1115	2037 2102 2103	
Calostibe striispora	2149a	fungus diseases	138 1683	<i>Cercospora purpuricaria</i>	2116	leaf spot	229 2047
Camellia sinensis		fungus diseases	2130	<i>Cercospora sesami</i>	520 528	leprosis	245 268
"bitten-off" disease	872	leaf crinkle	2393	1413 1495 1546		melanose	1832 1910 2216
black rot	1096 2185	leaf spot	2393	<i>Cercospora brassicae</i>	296	mottle leaf	820 871 1133
blister blight	30 372 737	maurial experiments		<i>Cercospora carthami</i>	472	2066	
873 1096 1176 1208		effects on mosaic	2149	<i>Cercospora persicae</i>	850	nematodes	233 451
1210 1294-1297 1392		disease incidence	2149	Cereals. <i>See</i> Grain.		851 855 979	
1466 1570 1720 1752		mosaic	13 130 398	Cerebella	963	physiological diseases	241
1825 1839 2089 2111		ring spot	1064	<i>Cerotelium desmium</i>	810	pink disease	265
2127 2177 2178-2182		rust	2138	<i>Cerotelium fici</i>	1494	psorosis	773
2191 2194 2195		virus diseases	491	<i>Cevada. See</i> <i>Hordeum vulgare</i> .		root rot	237 2170
canker	2138	yellow crinkle disease	1275	Cha. <i>See</i> <i>Camellia sinensis</i> .		881 384 1350	
dieback	2187	Carnation. <i>See</i> <i>Dianthus</i>		cherimola.		scab	125 445 771 1868
diseases	874	carphyllus.		Chickpea. <i>See</i> <i>Cicer arietinum</i> .		split diseases	75
India	2081	Carod. <i>See</i> <i>Neoglaetia</i>		Chili. <i>See</i> <i>Capsicum</i>		storage and transporta-	
Java	599	variegata.		frutescens.		tion rots	2326
Buitenzorg	1946	Carob. <i>See</i> <i>Ceratonia siliqua</i> .		Chloridium musae	37 2043	tristeza	46 61 63 192
Uganda	1002	Carpetgrass. <i>See</i> <i>Axonopus</i>		Chlorosporium patagoniensis	193	206 268 270 211	
Injuries	2138	compressus.		Christisonia wightii	1786	831 1037 1179 1419	
mottle scab	1117	Carpha schoenoides		diseases		1421 1463-1465 1611	
nematode diseases	877	smut	1050	Argentina	1327	1829 1864 1891 1892	
phloem necrosis	293 876	Carrionflower. <i>See</i> <i>Stapelia</i>		leaf spot	1255	1936 1949 2022 2388	
877		Carrot. <i>See</i> <i>Daucus carota</i>		rust	1488	wither-tip	
physiological diseases		sativa.		Chrysochloris endo-		biotica	1462 1466
red rust	2190	Carthamus tinctorius		biotica	1428	Citrus aurantifolia	227 258
root disease	875 882 2188	fungus diseases	517	Cicadulina	2076	anthracnose	227 258
2298		rust	472	<i>Cicer arietinum</i>	2169	damping-off	131
scab	240	Carya illinoensis	1118	foot rot	1169	physiological diseases	115
stem disease	2189	anthracnose		Cinchona		red root disease	132
through blight	2185	Cassava. <i>See</i> <i>Manihot</i>		damping-off	1279	Citrus aurantium	
white scab	1117	esculenta.		diseases	1253 1370	fungus diseases	1909
witches' broom	1159	Castanha. <i>See</i> <i>Bertholletia</i>		Guatemala	1838	storage and transporta-	
yellow disease	821	excelsa.		Java	599	tion rots	1908
Camote. <i>See</i> <i>Ipomoea</i>		Castor oil plant. <i>See</i> <i>Ricinus</i>		Latin America	1703	tristeza	382 1949
batatas.		communis.		Peru	1260	Citrus grandis	
Caná de açúcar. <i>See</i>		Catechu myrcia	2276	Philippine Republic	1298	scab	1156
Saccharum officinarum.		Catenuloporus zizyphi	1802	fungus diseases	606	Citrus limon	
Caná de azúcar. <i>See</i>		Caufflower. <i>See</i> <i>Brassica</i>		pink disease	652	brown rot	248 861 2036
Saccharum officinarum.		oleracea botrytis.		root rot	609	cottony rot	903
Canavalia ensiformis		Cebada. <i>See</i> <i>Hordeum vulgare</i> .		scab	1132	fungus diseases	1120
leaf blight	2063	Cebola. <i>See</i> <i>Allium vulgare</i> .		stem canker	611	physiological diseases	692
virus diseases	1975	Cebolla. <i>See</i> <i>Allium cepa</i> .		thread blight	652	Citrus limonia. <i>See</i> Citrus	
Cancer in relation to		Cedar. <i>See</i> <i>Cedrela mexicana</i> .		wilt	611	limon	611
plants	890	Cedrella mexicana		Contractia	473 2358	Citrus nobilis. <i>See</i> Citrus	
Cantaloup. <i>See</i> <i>Cucumis melo</i>		seedling blight	47	<i>Contractia carphae</i>	1050	reticulata.	
cantalupensis.		Celery. <i>See</i> <i>Apium graveolens</i> :		<i>Contractia sorghi</i>	1054	Citrus paradisi	
Capsicum		Apium graveolens dulce.		<i>Contractiella lamii</i>	286	chlorosis	
bacterial rot	984			Ciruelo. <i>See</i> <i>Prunus</i>		fungicides	1833
blight	933			domestica.		insecticides	121
disease resistance and	1856					121	
resistant varieties							

Item	Item	Item	Item
Citrus paradisi--Cont.	Cocos nucifera--Cont.	Coffee. See Coffea.	Cuminum cyminum
melanose 1867	diseases--cont.	Col. See Brassica oleracea	India 2202
mottled leaf 1134	Mexico 1863	Colletotrichum 555 2002 2133	Cupressus 1805
scab 119-121	New Guinea 728	Colletotrichum capsici 1805	canker 1528 2383
Citrus reticulata	Philippine Republic 1426	Colletotrichum coffeanum 1827 2065	Cupressus macrocarpa 1525
anthracnose 1290	Polynesia 1997	Colletotrichum falcatum 1787	canker 1338
fungus diseases 281	"knife cut" disease 2373	1805 2375	Curvularia pallenscens 1205 1526
scab 1017 1945	little leaf 600	Colletotrichum gloeosporioides 104 128 133 226	Cuscuta epilinum 905
Citrus sinensis	physiological diseases 729	258 461 907 2108	Custardapple. See Annona
anthracnose 1912	red ring 631 826 1137 1235	237 577	reticulata.
black rot 166	San Miguel leaf blight 478	Colletotrichum indicum 1807	Cydodactylon oblonga
black spot 1011	stem bleeding 1923	Colletotrichum lindae 1865	drying 667
brown rot 830	"unknown disease" 1099	Colletotrichum lini 1852	control 704 708-710
diseases 1439	wilt 1381	Colletotrichum lincolium 173	smut 891 892 849
Bolivia 929	Cocotero. See Cocos nucifera.	Colletotrichum lonicolum 167	Cylindrocladium 92 835
La Paz 2219	Cocoyam. See Xanthosoma	Commelina nudiflora 183	scoparium 1111
Brazil 1819	sagittae folium.	mosaic disease 1770	Cynodon dactylon 2120
Costa Rica 929	America 1249	Coniothecium chomatosporium 679	ergot 2120
Mexico 2156	Coffea	Coniothecium richardiae 1110	Cyperus pangorei 2258
Santa Engracia 2156	American coffee leaf 1154	Coniothyrium fuckelii 889	smut 473
Peru 1249	disease 31 449 784 2154	Coprinus nigrostratus 1024	Cypomandra bruceae 138
Zone of Chanchamayo 1249	1456 1902 1989 2360	Coqueiro. See Cocos nucifera.	Cyrpus. See Cupressus.
fruit rot 1795	anthracnose 922 2065	Corchorus 519	Cystopus ipomoeae-panduratae 2262
fungus diseases 1819	bacterial diseases 870 1195	blight 519	Dadap tree. See Erythrina.
green mold 1820	berry diseases 922 2065	black rot 2134	Dahlia 792 1320
gummy spots 864 865 2390	black bean disease 1828 2254	black rot 2351	virus diseases 1321
insecticides 1819	black rot 2134	brown rot 1859	Dalia. See Dahlia.
leaf-fall 1795	chicosis 2346	chicosis 2346	Damping-off 274 914 1315
leaf spot 2261	dilatation 1457	dieback 1500 1716 1719 1901 2134 2148 2349	Daruca filum 1654
leprosis 246 838 1305 1510	dieback 1500 1716 1719 1901 2134 2148 2349	diseases 322 1231 1469	Datura alba 399
nematode diseases 452	Africa 322 1231 1469	Belgian Congo 1030	mosaic 265
physiological disease 692	Brazil 1030	Central America 2183 2355	Datura fastuosa. See Datura metel.
psorosis 769 916	Colombia 1458 2352	Costa Rica 569 925 1080	Datura metel 2131
root rot 919 1246 1341 1351	Ecuador 39 608 2198	Guatemala 35 42	Datura virus 2 2131
scab 212 232 266 471	Guatemala 35 42	India 1394	Daucus carota sativa 1254
split disease 849	Guatemala 35 42	Jamaica 925	leaf blight 1113
stem rot 260	India 1394	Kenya 1161 1263	Dayflower. See Commelina nudiflora.
tristeza 111 244 383	Jamaica 925	Madagascar 1161 1263	Dendrophoma obscurans 1935
766 964 1418 1420	Kenya 1161 1263	Madagascar 1161 1263	Derris 1926
1889 1960 1981 2340	Madagascar 1161 1263	Madagascar 1161 1263	Desmodium diffusum 1698
virus diseases 2261	Mexico 1903	Madagascar 1161 1263	leaf spot 1698
water rot 250	Nicaragua 1	Madagascar 1161 1263	Desmodium gangeticum 1690 1699
water spot 250	Rianda-Urundi 752	Madagascar 1161 1263	Dianthus caryophyllus diseases 1325 1326
Cladosporium 1820	South America 2183 2355	Madagascar 1161 1263	Argentina 390 388
Cladosporium carpopophilum 720	Tanganyika 2097	Madagascar 1161 1263	fungus diseases 388
Cladosporium fulvum 605	Uganda 992	Madagascar 1161 1263	ring spot 887
754 1415	Venezuela 403 2249	Madagascar 1161 1263	yellow spot 2341
Cladosporium jamaicensis 1382	fungus diseases 1395 1591 1593	Madagascar 1161 1263	Dicyosperma album 1625
Cladosporium musae 1382	injuries 110 415 913 1032	Madagascar 1161 1263	Didymaria sp 1285
Clavel. See Dianthus	1411 1547 1591 1723	Madagascar 1161 1263	Didymella iridis 888
caryophyllus.	40 45 752	Madagascar 1161 1263	Diospyros sativa 529
Claviceps 1797 2132	latent infection 1827	Madagascar 1161 1263	Diospyros kaki 945
Claviceps purpurea 1522	leaf diseases 22 469 470	Madagascar 1161 1263	anthracnose 2267
Claviceps pusilla 1522	183 926 1393 2314	Madagascar 1161 1263	Diplocheila indaiá 718 2088
Climocodium farinosum 243	1878 1903 2348 2351	Madagascar 1161 1263	Diplodia cacaoicola 143
Clitocybe sp 1021	leak disease 2215	Madagascar 1161 1263	Diplodia maydis 2286
Clowe. See Eugenia	nematode diseases 803 808	Madagascar 1161 1263	Diplodia morina 1896
aromatica.	1717 2106 2107	Madagascar 1161 1263	Diplodia natalensis 166
Clover. See Trifolium.	nematodes 1288	Madagascar 1161 1263	Diplodia theobromae 2358
Coca. See Erythroxylum	phloem necrosis 1595 2350	Madagascar 1161 1263	Diplodia zae 973 2286
coca.	physiological diseases 2314	Madagascar 1161 1263	Diplothemium 689
Coco palm. See Cocos nucifera.	pruning disease 514	Madagascar 1161 1263	Brazil 689
Cocoa. See Theobroma cacao.	ring spot 247 249 1984	Madagascar 1161 1263	Disease resistance 900
Cocomo. See Cocos nucifera.	root diseases 34 44 370	Madagascar 1161 1263	in plants 900
Cocos nucifera	802 921 1286 2199	Madagascar 1161 1263	Diseases in general. See Plant diseases; and under names of hosts.
blight 2095	2359 2361	Madagascar 1161 1263	
bronze leaf wilt 114 116	smut 1706	Madagascar 1161 1263	
1379	sooty mold 1061	Madagascar 1161 1263	
bud rot 350 956 1221	stem rot 17	Madagascar 1161 1263	
"cadang-cadang" 1707 1895	thread blight 1858	Madagascar 1161 1263	
disease 478 479 1603	trunk canker 1140	Madagascar 1161 1263	
diseases 1689	wilt 1984	Madagascar 1161 1263	
Brazil 299	wilt 513	Madagascar 1161 1263	
British West Indies 341	yellowing 2389	Madagascar 1161 1263	
Colombia 1383		Madagascar 1161 1263	
Magdalena 1141		Madagascar 1161 1263	
Guatemala 1894		Madagascar 1161 1263	
Haiti 1379		Madagascar 1161 1263	
Jamaica 1997		Madagascar 1161 1263	
Melanesia 1997		Madagascar 1161 1263	

	Item	Eucalyptus diseases	Item	Fungi--Cont.	Item	Fusarium moniliforme subglutinans	Item
Dodder. See <i>Cuscuta</i> .				Brazil	967 1126 1558 1994	1836	
Dodder (Flax). See <i>Cuscuta epilinum</i> .					2109 2168 2248 2266		
<i>Dolichos biflorus</i>		Brazil	2387		2287 2276		
India	1693	Sao Paulo	92	Minas Gerais		2265	
<i>Dolichos lablab</i>		fungus diseases	11 1111	Rio Grande do Sul		1853	
mosaic	397	1524 1792			1854		
<i>Dolichodes</i>	896	necrosis	835	Ceylon		292	
<i>Dothidea ulei</i>	1211	rust	1139	Chiloe	747 1482 1483 2394		223
<i>Dothiorella</i>	1905	seedling diseases	92	Colombia	901 1163 1361		391
<i>Drepanocera larviformis</i>	243	<i>Eucalyptus globulus</i>	1251	determination		1892	
<i>Duraznero. See Prunus</i>		<i>Eucalyptus robusta</i>	1251	Gold Coast		637	
persica.		<i>Eucalyptus tereticornis</i>	1251	Guatemala		632	
<i>Durio. See Durio zibethinus.</i>		<i>Eugenia aromatica</i>	1022	Hawaii	219 1678 2061		431
<i>Durio zibethinus.</i>		Madagascar		herbaria		2061	
root disease	2143	<i>Eugenia jambos.</i> See <i>Syzygium jambos.</i>		in soils		920 2083	
Durra. See <i>Sorghum vulgare durra.</i>		<i>Euphorbia pulcherrima</i>	1129	India	150 521 1446 1508		391
Dutch Guiana. See <i>Surinam.</i>		scab		Indonesia		966	
		<i>Evolvulus</i>		Malay Archipelago	284 285		1072
		India	2147	Mauritius		2377	
Easter lily. See <i>Lilium candidum.</i>		<i>Exobasidium</i>	643	Mexico		1573	
Egplant. See <i>Solanum melongena.</i>		<i>Exobasidium discoideum</i>	1826	Mozambique		1746	
<i>Eichhornia crassipes</i>		<i>Exobasidium vexans</i>	737 873	Sul do Save		412	
leaf spot	148		878 1176 1294-1297	New Guinea		635	
			1392 1825 1839 2178	Panama	1361 1362 2385		
<i>Elaeis guineensis</i>		<i>Falsesallow. See Malvastrum coromandelianum.</i>		parasitic			
boyomi disease	112 1025	<i>Ficus</i>		on algae		2117	
diseases		Belgian Congo	2067	on fungi	1346 1654 2125		
stem rot	2141	canker	697 701	pathogenicity		1996	
<i>Elettaria cardamomum</i>		root rot	418	Peru		911	
diseases	1396	rust	1494	Philippine Republic		1417	
India	2209	Field crops		1882 2113			
mosaic		Australia	1470	South America		1855	
<i>Eleusine coracana</i>		Queensland				1898	
diseases		Fig. See <i>Ficus.</i>		Tanganyika		2317	
India		<i>Figueira. See Ficus.</i>		terminology		1811	
Mysore	2255	Flax. See <i>Linum usitatissimum.</i>		Trinidad		117	
Uganda	990	<i>Flueggea leucopyrus</i>	2123	tropics			
mosaic	2257	rust	2123	collecting and preserv-		1389	
<i>Elsinoe</i>	228 252 253 269	<i>Fomes lamoensis</i>	1286	Uganda		987 988 1003	
	1116 1118 1125 1127	<i>Fomes lignosus</i>	97 216 666	Uruguay	1004 1009		
<i>Elsinoe ampelina</i>	1114 1123		809 921 1105 1286	Venezuela		901 1162 1440	
<i>Elsinoe australis</i>	212 232		2026		2167		
	266 1120	<i>Fomes noxious</i>	2141	viability		2088	
<i>Elsinoe Boehmeriae</i>	1124	<i>Fomes semitostus</i>	921	Windward Islands		123	
<i>Elsinoe cinchonae</i>	1132	<i>Fragaria</i>	1271	See also names of fungi and fungus diseases.			
<i>Elsinoe citri</i>	125	diseases		Fungicides 8--10	58 67		
<i>Elsinoe fawcettii</i>	119 180	Southern Rhodesia	1079		145 162 176 215		
<i>Elsinoe hansfordii</i>	1119	leaf blight	1935		281 306 388 408		
<i>Elsinoe leucospila</i>	1117	<i>Frankliniella insularis</i>	2038		505 848 940 1038		
<i>Elsinoe theae</i>	240 1117	<i>Frankliniella paucispinosa</i>	761		1184 1247 1299 1399		
<i>Elsinoe toddaliae</i>	1121		1738		1479 1590 1593 1665		
<i>Emilia</i>	1920	<i>Fr. Jol. See Vigna sinensis.</i>			1726 1793 1831 1886		
yellow spot		Fruit	426 500		2003 2031		
<i>Emilia scabra</i>	1257	rust		See also under host names.			
virus disease		diseases		Caribbean region		122	
<i>Entomsporium maculatum</i>	24 667 706 708	Argentina	437 1324	See also under names of hosts.			
	709 710 854 891	Bolivia	1521	Furcraea gigantea		1136	
<i>Ephelis oryzae</i>	2251	Chile	458	Brazil		435 436 462 514	
<i>Eragrostis tenuifolia</i>	2251	fungus diseases	145 146	Fusarium 91 198 430 434		763 913 1006 1069	
fungus diseases	1522 2132		1113 1278		1204 1438 1609 1723		
<i>Erianthus trinitii</i>	1047	leaf diseases	510 1737 2325		1809 1847 2302		
smut		pink disease	483	Fusarium avenaceum		2290	
<i>Eriobotrya japonica</i>	24 706	root rot	1352	Fusarium bulbigenum		155	
Brazil			430		868		
<i>Erwinia aroidae</i>	1303	storage and transportation rots	135 2334 2338	Fusarium concolor		1199	
<i>Erwinia carotovora</i>	1190	Fruit diseases. See also under names of hosts.		Fusarium conglutinans		364	
<i>Erwinia phytophthora</i>	2279	<i>Fritta bomba.</i> See <i>Carica papaya.</i>		Fusarium cubense		1143 1728	
<i>Erysiphaceae</i>	1930	<i>Fruittula.</i> See <i>Fragaria.</i>		Fusarium equiseti		148	
<i>Erysiphe cichoracearum</i>	537	<i>Fumo. See Nicotiana tabacum.</i>		Fusarium falcatum		148	
<i>Erysiphe graminis</i>	756	Fungi	1394	Fusarium graminearum		150	
<i>Erysiphe graminis hordei</i>	1933	Argentina	1304 1333 1345	Fusarium javanicum		433	
diseases			1348	Fusarium lini		433	
Indonesia	1718	Buenos Aires	1549	Fusarium moniliforme		439	
fungus diseases	1589	Mendoza	1904		919 973 1195 1708		
witches' broom	542	Australia	1036				
<i>Erythroxylum coca</i>	405	Queensland	123				
witches' broom		Barbados					

	Item		Item		Item	Item	
Gossypium--Cont.		Hemileia vastatrix	469 470	Ilex paraguayensis		Lilium candidum	Item
mosaic	586 589	533 1393		fungus diseases	1111	mosaic	880
physiological diseases	1207	Hemileia wrightiae	1800	Immunity phenomena	1443	Limão. See Citrus limon.	
1596		Henqueen. See Agave		Inga	1589	Lime. See Citrus auranti-	
powdery mildew	1628	fourcroydes.		Insecticides	145 408	folia.	
leaf blight	651 1095	Heterodera	723	Insects as carriers of plant		Limonero. See Citrus limon.	
2039		881 888 1013 1104	723	diseases 762 943 1217 1394		Limo. See Linum usitatiss-	
root diseases	770	1230 1467-1477 1531	1531	1633 2315		simum	
root rot	168	1534 1567 2018		See also names of insects;		Linsseed. See Linum usitatiss-	
rust	810 1710	Heterodera radicola	1288	and under names of hosts.		linum, seed.	
seed treatment	512 814	1871		Ipomoea batatas		Linum usitatissimum	
819		Heterosporium		brown r. 908		anthracnose	153
silvered leaf	816	echinulatum	388 390	fungus diseases	1001	disease resistance and	
small-leaf disease	2212	Heall brasiliensis	390	virus diseases	1005 1577	resistant varieties 330 356	
stem breaking	650	American leaf disease	1374	wet rot	1223	1202 2229	
wilt	312 331 356 673	bark rot	823	Ipomoea muricata		diseases	
677 813 818 1008		bird's eyespot disease	1165	bacterial disease	1694 1701	Argentina	444
1091 1201 1204 1250		brown bast	343 1012	Ipomoea pestigradis		Peru	2361
1438 1478 1866 2084		1950 2297		India	2262	fungus diseases	165
2205 2271		dieback	2027	Iris		pasmó disease	203
disease resistance and		resistant varieties 96	2029	leaf spot	888	seed treatment	236
diseases		1148	2029	Isachne elegans		spasm disease	2386
Belgian Congo	2051	1148	2029	fungus diseases	2251	rust 330 494 2223 2229	
Ceylon	1897	1148	2029	Jackbean. See Canavalia		wilt 356 433 443	
Indonesia	1897	1148	2029	eniformis.		Lithraea caustica	
Java	1026	1148	2029	Jackfruit. See Artocarpus		fungus diseases	1115
Buitenzorg	1946	1148	2029	heterophyllum.		Lobelia trigona	
Malaya	171-173 177	1148	2029	Jamaica falsevalerian. See		rust	2127
1898		1148	2029	Stachytarpheta jamaicensis.		Loquat. See Eriobotrya	
Mexico	1372	1148	2029	Jasmine. See Jasminum		japonica.	1205
Uganda	997	1148	2029	malabaricum.		Loranthus	
fungicides	306	1148	2029	Jasminum malabaricum		Lovegrass. See Eragrostis	
fungus diseases	305 306	1148	2029	rust		tenifolia	
2025		1148	2029	Jassus indicus	1664	Lupine. See Lupinus.	
leaf blight	1371	1148	2029	Jowar. See Sorghum vulgare.	1815	Lupinus	
leaf disease	1180 2253	1148	2029	Juglans		fungus diseases	436 1060
mildew 175 358 961 1010		1148	2029	"mal de la tinta"	1745	Lycopersicon esculentum	
moily rot 805 806 1373		1148	2029	Jujube. See Zizyphus		bacterial diseases 456 715	
1313		1148	2029	oenoplea.		big bud 2	
pink disease	1410 2305	1148	2029	Jute. See Corchorus.		blight 329	
powdery mildew	1899	1148	2029	Corchorus capsularis.		blossom-end rot 217 1673	
root disease 97 216 615		1148	2029	Kale. See Brassica		canker 959 984 1523	
668 802 804 809		1148	2029	oleracea acephala.		curl top 190	
1027 1105 1513 1514		1148	2029	Kernomyces costii	2167	disease resistance and	
1516 2026 2298		1148	2029	Kudzuvine. See Pueraria.		resistant varieties 845 1034	
rots		1148	2029	Lactuca sativa		1062 1171 1172	
South American leaf		1148	2029	bacterial leaf spot	1510	diseases	
blight 1211 2029		1148	2029	dowry mildew 70 276	1510	Australia	4 7
sunburn 2244		1148	2029	leaf spot 276 291	1510	Queensland	4 7
Hibiscus canabinus	213	1148	2029	mildew 912	1510	Brazil	672 1554
Java	213	1148	2029	mosaic 1185	1510	British West Indies	129
Hibiscus esculentus	280	1148	2029	rot 1349	1510	Jamaica	1385
fungus diseases	139	1148	2029	Lactuca virus 1	1185	Peru	612
mosaic 790 2214		1148	2029	Laestadia acerifera	836	early blight 959 1147	
pod spot 295		1148	2029	Lagenaria vulgaris	400	fern leaf 691	
seedling blight 137		1148	2029	mosaic	400	fruit rot 1799	
Hibiscus rosa-sinensis	295	1148	2029	Lang. See Lathyrus sativus.		fungicides 5	
leaf spot 307		1148	2029	Laranja. See Citrus sinensis;		fungus diseases 155 645	
Hibiscus sabdariffa	515 1835	1148	2029	Citrus aurantium.		late blight 785 1377 2082	
El Salvador	1502	1148	2029	Lathyrus odoratus		2318	
Java	1502	1148	2029	wilt 1072		leaf blight	1918
Higuera. See Ficus.		1148	2029	India 223		leaf curl 762	
Hordium vulgare		1148	2029	Lauraceae		leaf mold 605 754 1415	
disease resistance and		1148	2029	galls 243		leaf spot 94 572 696 743	
resistant varieties 78 1933		1148	2029	Lead tree. See Leucaena		1034 1555 1884 2020	
1934 2226		1148	2029	glauca.		physiological disease 1731	
diseases		1148	2029	Leghuga. See Lactuca sativa.		powdery mildew 934	
Brazil 1553 1557		1148	2029	Legumes	551	southern blight 25 1157	
fungus diseases 1559 1559		1148	2029	West Africa	1285	spotted wilt 660 1171 1172	
leaf scald 1933 1934		1148	2029	Lemon. See Citrus limon.		1881	
powdery mildew 1933 2226		1148	2029	Lens		streak disease 2293	
rust 2079 2236		1148	2029	Uruguay		virus diseases 575 592	
smut 352 1432 2300		1148	2029	Lentil. See Lens.	436	761 1193 1738 1939	
Hortalizas. See Vegetables.		1148	2029	Lentinus lepidus	283	2292	
Hortelia pimenta. See Mentha		1148	2029	Leptosphaeria	680	wilt 1018	
piperita.		1148	2029	Leptosphaeria salvinii	1020	Macaira. See Malus pumila.	
Host indexes	1004 1482	1148	2029	Lettuce. See Lactuca sativa.		Macrospora phaseoli	2240
Host plants	632	1148	2029	Leucaena glauca		Macrosporia 553 2110	
Hyacinth bean. See Dolichos		1148	2029	Indonesia	1718	Macrosporum carotae	1254
lablab.		1148	2029	Levellula taurica	1801	Macrosporum porri	695
Hyptisrum		1148	2029	Ligustrum sinense		Magvey. See Agave	
Java	286	1148	2029	leaf spot	2260	fourcroydes.	
Hypoxis decumbens	2272	1148	2029	virus disease	2260	mahogany. See Swietenia macro-	
smut		1148	2029		2260	phylla.	
		1148	2029				

	Item		Item		Item		Item
Mainia holwayii	1243	Marasmius perniciosus	134	Musa paradisica sapientum--		Nicotiana tabacum--Cont.	
Mainia imperialis	1243		136 642 895 1764	Cont.		damping-off	580 585 1408
Maize. See Zea mays.			1765 2285	diseases--cont.		1517 1875 2101	
Malabar plum. See Syzygium		Marasmius semustus	1814	Trinidad	751 2327	disease resistance and	resistant varieties 336 1237
Jambos.		Marmeléro. See Cydonia		Uganda	989 1007	1214	
Malus pumila		oblonga.		fungicides	1424		
abnormalities	413	Martinia panamaensis	2368	heart rot	466 719		
bitter pit	1743	Masseella narasimhani	2123	infectious chlorosis	1836		
black rot	428	Maté. See Flex paraguariensis.		injuries	2038		
canker	427 2114	Matsedge. See Cyperus		leaf speckle	1382		
core rot	1316 2175	pangorei.		leaf spot 37	56 38 41 52		
diseases		Matihola		56 65 495 629			
Argentina	847 1329 2174	Argentina	2099	647 1083 1107 1158			
Colombia		Mauginia musae	1704	1164 1218--1220 1376			
Antioquia	414	Medicago sativa		1425 1427 1429 1617			
Boyacá	1587	disease resistance and		1668 1741 1750 1879			
Mexico	140	resistant varieties	354	1953 1954 2001 2043			
Southern Rhodesia	1074	fungus diseases	2164	2044 2046 2048 2054			
fungus diseases	1242	Matodesia	353 354	2056 2146 2259 2322			
leaf spots	854	1258 1794		2323 2329--2331 2335			
little-leaf	2324			2332			
powdery mildew	1533	Melampora	1450	2329 2332			
root rot	79	Melampora albertensis	856	1704			
scab	511 857 1566	Melampora alli-					
stem-black disease	679	populina	1308				
Malvaceae	1978	Melampora larici-					
infectious chlorosis	1630	populina 856 1308 1925 2104					
1968		Melampora lili 330 494					
mosaic	1643	2223					
Malvastrum coromandelianum	1643	Melampora mundkuri	2127				
moic	2256	Melanopsichium pennsylvanicum	1053				
Mamodira. See Ricinus		Mellilotus					
communis.		anthracnose	555				
Mandarin orange. See Citrus		Melioloneae	1009				
reticulata.		Melocotonero. See Prunus					
Mandioca. See Manihot		persica.					
esculenta.		Melon. See Cucumis melo					
anthracnose 128 226 348		cantalupensis.					
1269 2108		Menta. See Mentha.					
bacterial diseases 1695 1697		Mentha	76				
black tip	1824	rust	711				
diseases		Milho. See Zea mays.					
India	1519	Mimosa	2268				
Indonesia	1507	Brazil					
fungicides	128	Mint. See Mentha.					
injuries	1824	Mistletoe. See Loranthus.					
powdery mildew	2211	Molds	1670				
scab	791 1155 1691	Monilia cinerea	442				
twig blight	1155	Monochaeta unicornis	1525				
Mango. See Mangifera indica.		1528					
Mangueira. See Mangifera		Monetary Cypress. See					
indica.		Cupressus macrocarpa.					
Mani. See Arachis hypogaea.		Morning glory. See Ipomoea					
Manihot esculenta	833	muricata; Ipomoea pesti-					
bacterial diseases 113 225		gridis.					
694 699 670 837		Morus alba	1896				
1724		root rot					
disease resistance and		Mosaic diseases					
resistant varieties	2382	See also under names of					
diseases		hosts.					
Brazil	671 722 1644	Mucuna deeringiana. See Sti-					
Madagascar	317	zobolium decerianum.					
fungus diseases 685 718		Munj grass. See Saccharum					
721 991 2264		sarc.					
leaf spots		Musa paradisica sapientum					
mosaic 335 590 591 839		anthracnose	1998				
840 1615 1616 1974		bacterial diseases 474 545					
2075 2077 2382		678 1406 1879 2246					
1998		black end	1998				
rust	834	bunchy top	1668				
superbudding disease	1987	chlorosis	544				
witches' broom	1987	disease resistance and					
Manihot utilisissima. See Mani-		resistant varieties	1668				
hot esculenta.		diseases					
Manila hemp. See Musa		Brazil	668 669 1551				
textilis.		Colombia					
Manuals	48 341 1063 1146	Bogota	2023				
1337 1672 1709 1991		Magdalena	1383				
2008		Cuba	1442				
Manzano. See Malus pumila.		Dominican Republic.	942				
Maple. See Acer.		Guadaloupe	2327				
Maranta arundinacea		Haiti	2327				
banded leaf blight	1796						
Marasmius	1227						

	Item	Item	Item	Item
Onion. See <i>Allium cepa</i> .		Passionflower. See <i>Passiflora</i> .	Phoma lingam 272	Piedraia hortai 2276
Oosporea. <i>O. auranti</i>	1908	flower. <i>P. edulis</i> .	419	Pigeonpea. See <i>Cajanus cajan</i> .
Operculella padwickii	1169	Patata. See <i>Solanum tuberosum</i> .	Phomopsis 947 1112 1910	Pimenta officinalis 1276
Opibolus graminis 1539 1579	109	Peach. See <i>Prunus persica</i> .	Phomopsis cinereascens 697	
Opuntia		Peanut. See <i>Arachis hypogaea</i> .	Phomopsis citri 260 1832	Pimentao. See <i>Capsicum</i> .
Hawaii 421		Pear. See <i>Pyrus communis</i> .	2216	Pimiento. See <i>Capsicum</i> .
Orange, sour. See <i>Citrus aurantium</i> .		Phlox. See <i>Phlox paniculata</i> .	Phomopsis hevaea 2027	Pina. See <i>Ananas comosus</i> .
Orange, sweet. See <i>Citrus sinensis</i> .		Pecan. See <i>Carya illinoensis</i> .	Phomopsis vexans 794	Pineapple. See <i>Ananas comosus</i> .
Orange, trifoliata. See <i>Poncirus trifoliata</i> .		Peceguero. See <i>Prunus persica</i> .	Phycomycetes 139 1890	Pino. See <i>Pinus</i> .
Orchid		Pelargonium zonale ring spot 1995	Phyllactinia salmonii 828	Pinus 979
bacterial diseases 969		Pellicularia filamentosa 1796	Phyllosticta antirrhini 291	damping-off fungus diseases 868
black rot diseases		Pellucularia koleroga 1858	1356	rust 1142
Puerto Rico 1166		Penicillium viridicatum 1358	Phyllosticta caricae-papayae 2393	Piper 155
rust 1772		Penicillium notatum 422	Phyllosticta derridis 1926	fungus diseases 101
virus disease 1575		Penicillium viridicatum 1358	Phyllosticta swietenia 50	Piper betle 105
Ornamental plants		Penicillium glaucum rust 1806	Phymatotrichum omnivorum 360	bacterial leaf spot 106 1282
diseases		1808	Phygalospora cydoniae 427	foot rot 2210
Argentina 342		Pennisetum purpureum eye-spot 1680	Phygalospora obtusa 427	rust 527
Colombia 1255		1682	428	tipburn 107
Oranobanche 1205		Phenacium typhloideum. See <i>Phenacium</i> .	Phythyopsis 1670	Piper nigrum 2133 2288
Oryza sativa		Phenacium typhloideum. See <i>Phenacium</i> .	Phythium arrhenomanes 2166	anthracnose 1014 1340
blast 935 996 1340		Pennisetum glaucum rust 1806	Phythium 833	Piricularia oryzae 935 996
brown spot 484		1808	Phytomonas abilibeans 84	Pitaira. See <i>Furcraea gigantea</i> .
cadang-cadang 1705		Pennisetum glaucum rust 1806	87	Placotromax diplothemii 689
chlorosis 20		1808	Phytomonas campestris 984	Plant diseases 195 236 557
disease resistance and resistant varieties 1844		1808	Phytomonas leptovalvarum 1595	832 1094 1146 1337
1849		1808	Phytomonas malvacearum 982	1387 1520 1542 1543
Africa 498		1808	Phytomonas manihoti 225	832 1094 1146 1337
Colombia 196		1808	Phytomonas medicaginis 1736	1831 1991 2055
India 1913		1808	Phytomonas medicaginis 1736	1877 2073 2074
Madagascar 318		1808	1736	Africa 561
Philippine Republic 1426		1808	Phytomonas phaseolicola 2310	Argentina 255 438 450
1848		1808	Phytomonas phaseoli sojense 2204	858 1317 1318 1322
1284		1808	Phytomonas rubrilineans 379	1323 1330 1335 1337
dwarf disease 16		1808	970 1627	1353 1355 1749 1791
fungus diseases 892 1014		1808	Phytomonas rubrisubaldicans 379	Santa Fé 1944
1638 1650 2166		1808	Phytomonas savastanoi 985	Tucuman 2184
kernel disease 1652		1808	1659	Australia 183
"lawis" disease 1847		1808	Phytomonas sepedonica 2115	Queensland 6 1035 1272
leaf gall 15		1808	Phytomonas solanacearum 716	Barbados 151
nematode disease 1467		1808	1187 1560	Belgian Congo 1031 1100
"palay lakale" 1847		1808	Phytomonas tabaci 983	2066 2069
"Pan-sukh" disease 649		1808	Phytomonas tumefaciens 426	Bolivia 234 404 904
rust 1687		1808	2353	Brazil 230 231 256 261
sclerotial disease 1020		1808	Phytomonas vascularum 1640	264 453 674 698
seed spot 1336		1808	Phytophthora 344 345 501	930 946 951 952
seed treatment 144 1914		1808	509 606 610 611	968 1556 1558 1562
smut 526 1952		1808	613 777 823 866	1565 1729 1777 1781
stem rot 1844 1849		1808	867 954 1422 1891	1994
Ovalaria viciae 1928		1808	2014 2025 2136	Minas Geraes 394 1491
Ovariolopsis gossypii 1628		1808	2309	Pernambuco 160 394 1262
		1808	Phytophthora arecae 2208	1267
		1808	Phytophthora boehmeriae 860	Sao Paulo 396 1228
		1808	Phytophthora cactorum 1242	British Guiana 339 551
		1808	Phytophthora cambivora 1809	Ceylon 292 462 485 789
		1808	Phytophthora capsici 432	1672
		1808	933 1307 1747	Chile 1480 1484
		1808	Phytophthora citrophthora 73	Colombia 1407 1594
		1808	861 1745 2102	Costa Rica 1598 1455
		1808	Phytophthora faberi 301 902	Cuba 55
		1808	Phytophthora infestans 200	Dominica 682
		1808	406 429 539 734	East Africa 463 467 468
		1808	748 785 843 931	535 536 730 1532
		1808	1033 1173 1453 1537	2307 2315
		1808	1548 1574 1609 1778	Ecuador 1448 1449 1873
		1808	2157 2162 2221 2318	El Salvador 2062 2064 2354
		1808	96	2356
		1808	Phytophthora meadii 71	Federated Malay States 780
		1808	Phytophthora palmivora 96	Fiji Islands 1666
		1808	137 138 302 327	Gold Coast 637 935
		1808	350 543 863 1795	Guatemala 1145
		1808	1799 1840 1895	Hawaii 1614 1648 1678
		1808	124 131 147 441	India 1679
		1808	524 531 862 864	India 357 493 1081 1386
		1808	1683 1840 1880 1906	1915 2024 2132 2206
		1808	2390	Assam 98
		1808	Phytophthora parasitica 2152	Bengal 98
		1808	nicotiana 282	Bombay 288 1152
		1808	Phytophthora parasitica 282	Burma 355
		1808	piperina	

Item	Item	Item	Item	Item
Plant diseases--Cont.	Poplar. See Populus.	Pueraria	angular leaf spot	2116
India--cont.	Populus	Pumello. See Citrus grandis.		
Central Provinces and	canker	Pyrenochaeta sacchari		262
Berar	disease resistance and	Pyrethrum		1809
Madras	resistant varieties	will	914	1846
Mysore	leaf spot	Pythium	aphanidermum	2309
Travencore	rust	856	1308	1450
Indonesia	2104	216	Pythium completectens	2143
Jamaica	Portia hypobrunnea	882	Pythium debaryanum	1408
1380	Portia hypobrunnea		1803	
Java	Portia hypobrunnea		Pythium phthalosticton	1921
Kenya	Poroto. See Phaseolus.		Pythium indicum	139
Latin America	Potato. See Solanum		Quercus	2279
bibliography	tuberosum		Quercus	2279
Madagascar	Potato mottle virus		Quercus	2279
653	Powdery mildews		Quercus	2279
Malaya	Pricklypear. See Opuntia.		Quercus	2279
Mauritius	Privet. See Ligustrum		Ragi. See Eleusine coracana.	565
1391	sinense.		Ragimillet. See Eleusine	1112
Mexico	Protalaria tabebuiae		coracana.	928
2050	Prunus amygdalae		Rasamala. See Aitngia	1472
Mozambique	dieback		excelsa.	853
410	fungus diseases		Redpepper. See Capsicum.	1111
New Guinea	1568		Repollo. See Brassica	1790
Nigeria	2366		oleracea capitata.	720
Peru	163		Rescuegrass. See Bromus	1112
1038	1715		catharticus.	419
Lima	1238		Rhinotrachium	1346
Philippine Republic	549		griseoroseum	529
1426	1721		Rhizoctonia	1151
Puerto Rico	562		1179	1487
Réunion	323		2164	1653
Rhodesia	1071		1587	1354
Serra Leone	325		Rhizoctonia solani	17
South America	1075		1180	1354
Southern Rhodesia	1959		1809	2166
154	1066		Rhizopus	1670
1067	1069		Rhizopus artocarpus	530
Sudan	311		Rhizopus nigricans	721
Sumatra	1039		Rhododendron indicum	848
Tanganyika	2096		gall	1826
2317	2316		Rhynchosporium secalis	78
Trinidad	127		1934	
Uganda	1007		Rice. See Oryza sativa.	
Uruguay	204		Rhizococcus communis	1135
975	2217		fungus diseases	89
Venezuela	1498		393	1801
Falcon	2094		powdery mildew	1027
West Indies	122		Rigidoporus microporus	1272
climatic factors	551		Rhizoglyphus	186
environmental condi-	1233		anthracnose	187
tions	789		bibliographies	889
laboratory methods	1822		cane blight	889
legislation	1092		diseases	187
names and terminology	416		Argentina	971
417	1818		downy mildew	1727
Plant pathology. See Plant			fungus diseases	1111
diseases.			gray rot	1313
Plant protection	499		mosaic	1188
Platano. See Musa paradisica			powdery mildew	886
sapientum.			Rose. See Rosa.	
Plasmodiophora brassicae	74		Roséira. See Rosa.	
185	2015		Roselle. See Hibiscus	
Plasmodiophora vitis	733		sabdariffa.	
Plasmodiophora viticola	440		Rosellina	34
646	977		57	418
2291	1434		2278	
Platycaucus regenellii	2279		2339	2199
Brazil			Rosellinia bunodes	719
Pleophragmia manihoti-	2276		Rosellinia necatrix	79
closa			1352	1589
Pleospora hesperiderum	1908		Rosellinia pepo	1589
Plum. See Prunus domestica.			Rosella	514
Plum, Malabar. See Syzygium			Rostrella coffeae	1859
jambos.			Royalpalm. See Roystonea.	
Plumegrass. See Erianthus.			Roystonea	
Podocarpus	85		bud rot	1620
Brazil			Rubbertree. See Hevea	
Poinsettia. See Euphorbia			brasiliensis.	
pulcherrima.			Rue. See Ruta.	
Poliporus	1854		Ruga verrucosans distans	189
Polygonum pennsylvanicum	1053			
smut				
Polyporaceae	150			
Polyporus cinabarinus	1431			
Polyporus sapinae	719			
2273				
Polystictus	1853			
Polystictus versicolor	283			
Poncirus trifoliata				
Argentina	724			

	Item		Item		Item		Item
Saccharum officinarum-- Cont.		Sesamum indicum blight	520	Sorghum sudanensis. See Sorghum vulgare sudanensis.		Sunflower. See Helianthus an- nus; Helianthus tuberosus.	
twisted top	1195 1708	Uganda	998	Sorghum vulgare diseases	1546	Sunn crotalaria. See Crotalaria juncea.	
virus diseases	1610	fungus diseases	1546	ergot	1798 1804	Sunn hemp. See Crotalaria juncea.	
wilt	740 741 1168 2063	Sesamum orientale. See Sesamum indicum.	1167	leaf diseases	541 1471	Sweet orange. See Citrus sinensis.	
Saccharum sarc		Sida		root parasites	683 206	Sweetclover. See Melilotus.	
Safflower. See Carthamus tinctorius.		infectious chlorosis	1978	smut	102 1471	Sweetpotato. See Ipomoea batatas.	
Salix		Sida rhombifolia	1633	top-rot	1808		
Argentina	974	infectious chlorosis	1633	virus diseases	496		
Sandalwood. See Santalum. Sandra. See Passiflora laurifolia.		Simsim. See Sesamum orientale.		Sorghum vulgare durra smut			
Santalum		Sisal hemp. See Agave sisalana.		fungicides	1203	Swietenia macrophylla nursery wilt	1883
spike disease	1102 1103	Snadragon. See Antirrhinum majus.		Sorghum vulgare sudanensis smut	1054	seedling blight	50
1815 1817 2040		Soja. See Glycine soja.		Sorosphaera vasculorum	563	Synchytrium endobioticum	753
Schiffnerella paraparenisis	2167	Solanceae	1157	Sorosporium reilianum	2013	1229	
Sclerosophyllum commune	1654	2070	1157	Sour orange. See Citrus aurantium.		Syzgium jambos rust	1947
Sclerospora javanica	2070	brown rot	576	Soybean. See Glycine soja.			
Sclerospora maydis	1841	virus diseases	1676	Sphaecelia sorghi	102 1798	Tabaco. See Nicotiana tabacum.	
Sclerospora sacchari	178	Solanum melongena	1676	Sphaceloma	252 253 1116	Tabebuia	
1224		bacterial wilt	1676	1125 1127 1129 1130		witches' broom	542
Sclerospora sorghi	1696	disease resistance and resistant varieties	1676	1804 2118		Tabebuia pallida witches' broom	565
Sclerotinia	280	fungus diseases	794 1661	Sphaceloma arachidis	588	Tamarisco. See Tamarix gallica.	
Sclerotinia cinerea	442 720	1773 1840	1651	Sphaceloma australis	1498		
Sclerotinia fruticosa	167 853	leaf spot	1651	1945	120	Tamarisk. See Tamarix gallica.	
Sclerotinia minor	1349	little leaf	2131	Sphaceloma fawcettii	120		
Sclerotinia sclerotiorum	165	rust	1806	121 445	254	Tamarix gallica	
Sclerotium	476	Solanum tuberosum	715 1780	Sphaceloma genipae	69 698	cancker	859
Sclerotium cepivorum	103	bacterial diseases	2115	Sphaceloma murayae	885	Taphrina deformans	447 504
1883		bacterial ring rot	456	Sphaceloma perseae	1117	703 1742 1924	
Sclerotium delphinii	1883	bacterial spot	1190	Sphaceloma rosarum	254	Tasselflower. See Emilia;	
Sclerotium oryzae	1844 1849	black leg	2000	Sphaceloma terminalia	1055	Emilia scabra.	
2166		black scurf	716 1187	Sphaceloma theae	1167	Tea. See Camellia sinensis.	
Sclerotium rolfsii	90 213	brown rot	1530 1560	Sphaerotheca	1167	Tenipalpus pseudo- canevit	2260 2261
538 601 1495a		with wilt	1428	Sphaerella linorum	1535	Tephrosia	
1850 1992 2252		canker	1433	Sphaeronomia fibrillatum	908	rot knot	881
Scutia myrtina	1119	diseases	1744	Sphaeropsis tumefaciens	1212	Terminalia catappa	254
scab		Argentina	583 676	Sphaerostilbe repens	886	Theobroma cacao bibliography	1569
Secale cereale		Buenos Aires	1481 1485	Sphaerotheca panosa	507 906	black pod disease	2365
blight	522	Mendoza	893	Sphaerotheca pannosa	1024	black rot	327
Seed treatment	23 362 570	Brazil	1412 1414	Spondyliocladium	1192	brown rot	302
1823		Colombia	1503 1504	atrovirens	1490	canker	326 902
See also under names of hosts.		Costa Rica	2287	Spongospora subterranea	1874	dieback	2295 2296
Septobasidium albidum	242	Java	1378	1874	1681	Brazil	298 301 1988
Septobasidium castaneum	2283	Mexico	1252	Spotted wilt virus	1538	Bahia	1885
draconiana	1331	Panama	2159	Spraying equipment		Colombia	894 898 899
Septobasidium cavienae	1339	Peru	700 2157	Squash. See Cucurbita maxima.		1029 1245	
Septobasidium guaranicum	1331 1339	Aija	1405 1487 1609 2157	Stachyridium theobroma	675	Costa Rica	1101
Septobasidium lepidosaphis	1499	early blight	220 1870 2159	Stachytrapheta jamaicensis	1256	Ecuador	2363
Septobasidium pseudo- pedicularis	343 1499	fungicides	59 2000	virus diseases	2280	Manabí	1582
Septobasidium saccardinum	2275	1405 1487 1609 2157	2221	Stachytrapheta jamaicensis	1256	Gold Coast	939 2091
Septoidium didymo- panaic	2267	late blight	200 406 429	Stapelia variegata	1862	Surinam	2045
Septoria	276 1301 2386	931 1033 1173 1453	931 1033 1173 1453	bacterial soft rot	1034	Trinidad	751 1916 2144
Septoria apii	563 1108 1489	1537 1538 1548 1574	1779 1951 2311	Stemphylium solani	1903	Venezuela	28 80 1281
Septoria apii-gravelentis	568	1779 1951 2311	656 793	Stephanoderes hampei	2072	Paria Peninsula	1757
Septoria apii-gravelentis	568	legislation	1428	Stigmatomyces		fungus diseases	297 1239
Septoria cercidis	1344	"necrose das nervuras"	1631	Stilbella flavidia. See Omphalia flavidia.		leaf scorch	1011
Septoria citri	1869	1734 1416 674	1534	Stilbum flavidum. See Omphalia flavidia.		physiological diseases	1090
Septoria dianthi	887	1537 1538 1548 1574	1574	Stilbum flavidum. See Omphalia flavidia.		swollen shoot	29 142 328
Septoria drummondii	290	1779 1951 2311	656 793	Stilbum flavidum. See Omphalia flavidia.		361 497 552 554	
Septoria gallardae	134	leaf roll	656 793	Stilbum flavidum. See Omphalia flavidia.		1938 750 960 981	
Septoria lactucae	291	legislation	1428	Stilbum flavidum. See Omphalia flavidia.		986 1292 1293 1402	
Septoria leucanthemi	1344	scab	800 2000	Stilbum flavidum. See Omphalia flavidia.		1441 1452 1754-1756	
Septoria lycopersici	94 572	seed treatment	2000 2165	Stilbum flavidum. See Omphalia flavidia.		1759 1760 1763 2028	
696 743 1555 1884		silver scurf	1192	Stilbum flavidum. See Omphalia flavidia.		2092 2296 2367	
2020		top-necrosis	581 1613	Stilbum flavidum. See Omphalia flavidia.		2092 2296 2367	
Septoria muscivora	1929	virus diseases	169 170	Stilbum flavidum. See Omphalia flavidia.		118 126	
Septoria nodorum	78	581 662 664 767	664 767	Stilbum flavidum. See Omphalia flavidia.		642 895 1764-1768	
Septoria obesa	1255	581 662 664 767	664 767	Stilbum flavidum. See Omphalia flavidia.		2285	
Septoria populi	1930	924 1182 1191 1576	1576	Stilbum flavidum. See Omphalia flavidia.		Thielaviopsis	1274
Septoria tritici	78	1632 1714 1964 1966	1966	Stilbum flavidum. See Omphalia flavidia.		Thielaviopsis basicola	168
Sesame. See Sesamum.		1969 1972 1982 1985	1985	Stilbum flavidum. See Omphalia flavidia.			
Sesamum		1986	1986	Stilbum flavidum. See Omphalia flavidia.			
fungus diseases	1413	wart diseases	753 1229	Stilbum flavidum. See Omphalia flavidia.			
stem canker	610	Solanum virus 1	1613 2293	Stilbum flavidum. See Omphalia flavidia.			
white spot	1495	Sopobia delphinifolia	1206	Sugar beet. See Beta vulgaris. Sugarcane. See Saccharum officinatum.			
		Sorghum. See Sorghum vulgare.		Sugarcane leaf hopper. See Perkinsiella saccharicida.			

	Item		Item		Item	Item
Thielaviopsis paradoxa	60	Tr/tirachium	1550	Venturia inaequalis	511	1566 Wood-destroying fungi
	386 560 1444	Tuberulina	2129	Verticillium	331	1008 283
Thrips tabaci	1919	Tulip. See Tulipa.		Verticillium albo-atrum	423	Wood preservation
Thysanolaena maxima		Tulipa			1486 2271	Wrightia tinctoria
bacterial diseases	1626	Argentina	387 1328	Verticillium diseases	1486	rust
Thysanoptera	1920	fire disease	1311	Verticillium wilt	1250	Wrightia tomentosa
Tickclover. See Desmodium		Tulipan. See Tulipa.		Vicia faba		rust
diffusum; Desmodium		Tungoilree. See Aleurites		Vicia sativa.		
gangeticum.		fordii; Aleurites montana.				
Tigergrass. See Thysanolaena		Turnip. See Brassica rapa.		brown spot	1109	Xanthomonas campestris
maxima.		Tylenchus coffeae	803 1717	diseases		2155
Tilletia 1045 1056 1390 2158		Tylenchus pratensis	808	Peru	164	Xanthomonas desmodii
Tilletia hyalospora		Tylenchus semipennetrans	233	Vicia sativa		Xanthomonas desmodii-
cucoensis	1057		451 452 855	leaf blight	1928	gangeticii
Tobacco. See Nicotiana			979 1341 1350 1351	stem blight	1928	Xanthomonas malvacearum
tabacum.				See Vitis.		309
Tobacco-mosaic virus	1962	Ucinula necator	1938	Vid. See Vitis.		1700
Toddalia		Uredinales	409 632 633	Vidreira. See Vitis.		Xanthomonas nigromaculans
scab	1121		635 681 1162	Vigna catjang		zinniae
Toledella fusispora	2281	1778		mosaic	401	Xanthomonas phaseoli
Tomate. See Lycopersicon		Uredineae	1243	Vigna sinensis		indicus
esculentum.		Uredinella spinulosa	602	disease resistance and	2201	Xanthomonas phaseoli
Tomateiro. See Lycopersicon		Uredo imperialis	1243	resistant varieties		1693
esculentum.		Urocystis	1049	Venezuela	1493	Xanthomonas pruni
Tomato. See Lycopersicon		Urocystis hypoxidis	2272	root rot	2201	Xanthomonas solana-
esculentum.		Uromyces	1244		2201	cearum
Tomentella bambusina	2282	Uromyces hobsoni	2126	Virus diseases	294 328	492 Xanthomonas uppalii
Toronia. See Citrus paradisi.		Uromyces manihoti	834		564 576 641	788 Xanthomonas vasculorum
Torulopsis conglobata		Uromyces phaseoli typica	1684		1063 1198 1217 1261	1620
minima	466	Ustilaginales	2192 2395		1602 1795 1782 1919	Xanthosoma sagittae-
Torulopsis musarum	466	Ustilago	1043 1055		1968 1980 1990 2008	root rot
Trees		Ustilago noidea virens	1952		2078 2172	Xanthosoma sagittifolium.
disease resistance and		Ustilago		hosts	578 654 1920	See Xanthosoma sagittae-
resistant varieties	2149	Ustilago bromivora	194	hosts.		folium.
diseases	197	Ustilago chacoensis	1058	Virus X	169 1982	Yam. See Dioscorea sativa.
fungus diseases	1289	Ustilago hordei	352 1432	Virus Y	1577 1632 1986	Yautia malanga. See Xantho-
	2149a	2300		Vitis		soma sagittae-.
injuries	2100 2196	Ustilago jacksonii	1052	anthracnose	503 713 763	Yellow-spot virus
root rots	1289 2071	Ustilago maydis. See			1114 1123 1128 1454	1681
See also names of trees.		Usilago zeae.			1812 1937 2105 2392	Zantedeschia aethiopica
Treetomato. See Cyphomandra		Ustilago microthelid	1047	California grape disease	2289	Argentina
betacea.		Ustilago nuda	352	diseases		Zapallo. See Cucurbita
Tremocoero. See Lypinus.		Ustilago perennans	1677	Brazil	702 717	maxima.
Trichococcus padwickii	1652	Ustilago rottboelliae	1052	Chile	1098	Zeae may
Trifoliolate orange. See Pon-		Ustilago sacchari	759 760	Uruguay	152	bacterial wilt
cirus trifoliata.		Ustilago scitaminea	68 374	downy mildew	440 571	646
Trigo. See Triticum vulgare.			375 618		940 1434 1454 1740	Argentina
Triticum vulgare			758 765 829 1044		1789 2163 2291	Africa
disease resistance and			1046 1082 1196 1222	fungicides	1097 1789 2291	Brazil
resistant varieties	77 78		1635 1788	fungus diseases	733 1278	Costa Rica
	356 1390 1987 2098	Ustilago spegazzinii	1051		1454 1473 1813	Philippine Islands
diseases	2227	Ustilago tritici	972	gray rot	927 1313	Uganda
Argentina	424 1301	Ustilago zeae	1042 1048 1388	powdery mildew	502 571	downy mildew
Uruguay	958	2013			977 978 1097 1434	fermented maize ears
fungi	2158	Vanilla. See Vanilla			1740 1789 1938	fungus diseases
mildew	537	planifolia		virus diseases	2294	1696 1841 2070
physiological diseases	1656	Vanilla planifolia		Walnut. See Juglans.		grain disease
root rot	109	fungus diseases	314	Water hyacinth. See		leaf gall
rust	108 356 465 532	Vegetables		Eichhornia crassipes.		mold
	735 757 797 917	bacterial soft rot	2306	Watermelon. See Passi-		rots
	1131 1216 1460 1686	cofney root	280	flor laurifolia.		rust
	1843 1876 1987 2049	diseases		Wheat. See Triticum.		seed treatment
	2098 2112 2224 2225	Australia		Whitepalm. See Dictyosperma		sigatoka disease
	2227 2230 2232-2235	Queensland	1272	album.		smut
scab	2299 2301	Brazil	1830	Willow. See Salix.		stalk rot
seed treatment	796 1578	Hawaii	1679	Witchgrass. See Panicum.		streak disease
	1686	Puerto Rico	48 49	Witchweed. See Striga		"verdin"
smut	407 745 972 1028	South Pacific		orbanchoides.		virus diseases
	1045 1248 1360 1390	Trinidad	2009	Wood		white streak
	1398 1712 2158 2371	seed treatment	2021	rots	966 1369 1431	Zinnia elegans
take-all disease	109 1539	virus diseases	1181	Wood decay	795	bacterial leaf disease
	1579	See also names of vegetables.				flower disease
		Velvetbean. See Stizolobium				Zizyphus oenoplea
		deeringianum.				rust

