

Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.



THE PLANT DISEASE REPORTER

Issued By

THE PLANT DISEASE SURVEY



Division of Mycology and Disease Survey

BUREAU OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING

AGRICULTURAL RESEARCH ADMINISTRATION

UNITED STATES DEPARTMENT OF AGRICULTURE

HOST INDEX TO NON-FUNGUS DISEASES OF PLANTS IN CHINA

Supplement 215

August 15, 1952



The Plant Disease Reporter is issued as a service to plant pathologists throughout the United States. It contains reports, summaries, observations, and comments submitted voluntarily by qualified observers. These reports often are in the form of suggestions, queries, and opinions, frequently purely tentative, offered for consideration or discussion rather than as matters of established fact. In accepting and publishing this material the Division of Mycology and Disease Survey serves merely as an informational clearing house. It does not assume responsibility for the subject matter.

Issued by

THE PLANT DISEASE SURVEY
DIVISION OF MYCOLOGY AND DISEASE SURVEY

Plant Industry Station

Beltsville, Maryland

HOST INDEX TO NON-FUNGUS DISEASES OF PLANTS IN CHINA

W. N. Siang¹

Plant Disease Reporter
Supplement 215

August 15, 1952

The list by Tai² and the index by Ling³, as well as the monograph by Teng⁴, adequately cover the parasitic fungi of plants known to occur in China. Darker's list⁵, which covers Eastern Asia, is apparently the only list of a similar nature that attempts to cover the occurrence of non-fungus diseases in China.

For the most part reports on the occurrence of plant diseases in China are published either in Chinese or in periodicals of limited circulation, and are therefore frequently overlooked by workers outside of that country. The purpose of this index is to provide ready access to known information concerning the occurrence and distribution of such non-fungus diseases as those incited by malnutrition, bacteria, parasitic phanerogams, nematodes, viruses, and other agents.

In the preparation of this index an effort has been made to make the list as complete and current as possible. The diseases of Taiwan (Formosa) have not been included because of inadequate library facilities. It is hoped that a supplementary list covering that area can be published in the near future. The compiler would appreciate having brought to his attention any omissions or errors in this index.

ABUTILON

- A. avicennae Gaertn., Indian mallow
Mosaic, virus unidentified. Manchuria (18)

ACER

- A. buergerianum Miq.
Dodder (Cuscuta japonica Choisy). Chekiang⁶ (40)
Acer sp.
Dodder (Cuscuta japonica Choisy). Chekiang (40)

ACTINOSTEMMA

- A. lobatum Max. var. racemosum Max.
Dodder (Cuscuta japonica Choisy). Chekiang (40)

ACHYRANTHES

- A. bidentata Bl.
Dodder (Cuscuta japonica Choisy). Chekiang (40)

¹Formerly instructor in Department of Plant Pathology, National Tsing Hua University, Peiping, China, now, Research Assistant, Department of Plant Pathology, the State College of Washington, Pullman, Washington. The compiler wishes to acknowledge his deep appreciation to Prof. F. L. Tai, Mr. Y. C. Wu of Tsing Hua University, and Dr. C. G. Shaw and other staff members of the Department of Plant Pathology, the State College of Washington for various assistance in the preparation of the index.

²Tai, F. L. 1936-37. A list of fungi hitherto known from China, Parts I, II, III and IV. Sci. Rept. Tsing Hua Univ. Ser. B 2: 137-165, 191-639.

³Ling, L. 1948. Host index of the parasitic fungi of Szechwan, China. Plant Dis. Repr. Suppl. 173: 1-38.

⁴Teng, S. C. 1939. A contribution to our knowledge of the higher fungi of China, 614 pp. Nat. Inst. Zool. and Bot., Academia Sinica, Nanking, China.

⁵Darker, G. D. 1940. A brief host index of some plant pathogens and virus diseases in Eastern Asia. Plant Dis. Repr. Suppl. 122:93-123.

⁶Name of province.

AGERATUM

A. conyzoides L.

Root knot (Heterodera marioni (Cornu) Goodey) [Meloidogyne sp.]. Kwangtung (22)

AGROPYRON

A. semicostatum (Steud.) Nees

Dodder (Cuscuta japonica Choisy). Chekiang (40)

AKEBIA

A. quinata Decne., five-leaf akebia

Dodder (Cuscuta japonica Choisy). Chekiang (40)

ALANGIUM

A. platanifolium Harms.

Dodder (Cuscuta japonica Choisy). Chekiang (40)

ALBIZZIA

A. julibrissin Durazz., silk tree

Dodder (Cuscuta japonica Choisy). Chekiang (40)

ALEURITES

Aleurites sp., tung oil tree

Bacterial leaf spot, unidentified. Kwangsi (48)

Mistletoe (Phoradendron sp.). Kwangsi (48)

Witches' broom, virus unidentified. Shansi (29)

ALLIUM

A. cepa L., onion

Bacterial soft rot (Erwinia aroideae (Town.) Holland). Kiangsu (53)

Root-knot (Heterodera marioni (Cornu) Goodey). Kwangtung (22)

A. nipponicum Fr. & Sav.

Dodder (Cuscuta japonica Choisy). Chekiang (40)

AMARANTHUS

A. caudatus L.

Dodder (Cuscuta japonica Choisy). Chekiang (40)

A. spinosus L.

Dodder (Cuscuta japonica Choisy). Chekiang (40)

AMORPHOPHALLUS

A. konjac K. Koch

Bacterial soft rot (Erwinia carotovora (L. R. Jones) Holland). Sikang (8)

AMPELOPSIS

A. heterophylla S. & Z.

Dodder (Cuscuta japonica Choisy). Chekiang (40)

A. sp.

Dodder (Cuscuta japonica Choisy). Chekiang (40)

APHANANTHE

A. aspera Planch.

Dodder (Cuscuta japonica Choisy). Chekiang (40)

APIUM

A. graveolens L., celery

Bacterial leaf spot (Pseudomonas apii Jagger). Honan (42)

Bacterial soft rot (Erwinia aroideae (Town.) Holland). Kiangsu (53), Manchuria (18)

Mosaic, virus unidentified. Shantung (52), Szechuan (52)

Root-knot (Heterodera marioni (Cornu) Goodey). [Meloidogyne sp.] Kwangtung (22)

Yellows (Chlorogenus callistephi Holmes var. californicus Holmes, Callistephus virus

1 A). Sikang (8)

ARACHIS

A. hypogaea L., peanut

- Bacterial wilt (Xanthomonas solanacearum (E. F. Sm.) Dowson). Kwangsi (38)
 Mosaic, virus unidentified. Fukien (23), Shantung (52)
 Rosette (Marmor arachidis Holmes, Arachis virus 1). Sikang (8)
 Virus, unidentified. Kiangsu (53)

ARCTIUM

A. lappa L., burdock

- Bacterial black spot (Xanthomonas nigromaculans (Takimoto) Dowson). Hopeh (30),
 Jehol (18), Manchuria (18)

ARTEMISIA

A. capillaris Thunb., tarragon

- Dodder (Cuscuta japonica Choisy). Chekiang (40)

A. japonica Thunb.

- Dodder (Cuscuta japonica Choisy). Chekiang (40)

A. vulgaris L., mugwort

- Dodder (Cuscuta japonica Choisy). Chekiang (40)

A. vulgaris L. var. parviflora Max.

- Dodder (Cuscuta japonica Choisy). Chekiang (40)

ASTER

A. trinervius Roxb. var. adustus Max.

- Dodder (Cuscuta japonica Choisy). Chekiang (40)

ASTEROMOEIA

Asteromoea sp.

- Dodder (Cuscuta japonica Choisy). Chekiang (40)

BENINCASA

B. hispida (Thunb.) Cogn., white gourd

- Bacterial wilt (Erwinia tracheiphila (E. F. Sm.) Holland, or Xanthomonas solanacearum
 (E. F. Sm.) Dowson). Southern China (33)

BEGONIA

B. evansiana Andr.

- Bacterial leaf spot (Xanthomonas begoniae (Takimoto) Dowson). Honan (42)

BETA

B. vulgaris L., beet

- Bacterial leaf spot (Pseudomonas aptata (Brown & Jamieson) F. L. Stevens). Manchuria (18)

- Bacterial soft rot (Erwinia carotovora (L. R. Jones) Holland). Honan (42)

- Crown gall (Agrobacterium tumefaciens (E. F. Sm. & Town.) Conn). Manchuria (18)

- Root-knot (Heterodera marioni (Cornu) Goodey) [Meloidogyne sp.] Kwangtung (22)

BLUMEA

B. hieracifolia DC.

- Root-knot (Heterodera marioni (Cornu) Goodey) [Meloidogyne sp.] Kwangtung (22)

BOEHMERIA

B. nivea Gaud., ramie

- Dodder (Cuscuta japonica Choisy). Chekiang (40)

B. platanifolia Fr. & Sav.

- Dodder (Cuscuta japonica Choisy). Chekiang (40)

BRASSICA

B. alboglabra Bailey

- Bacterial black spot (Pseudomonas maculicola (McCul.) F. L. Stevens). Kwangtung
 (26)

(Brassica continued)

- B. campestris L. Field mustard
Mosaic (may be a strain of Marmor brassicae Holmes, Turnip virus 1). "Widespread in different districts in China." (27)
Mosaic, virus unidentified. Chekiang (52), Kiangsu (52)
Virus, unidentified. Kiangsu (53)
- B. caulorapa Pasq., kohlrabi
Bacterial black spot (Pseudomonas maculicola (McCul.) F. L. Stevens). Jehol (18)
Bacterial soft rot (Erwinia aroideae (Town.) Holland). Hopeh (2)
- B. cernua Thunb.
Bacterial soft rot (Erwinia aroideae (Town.) Holland). Fukien (23)
- B. chinensis L., pak-choi
Bacterial black spot (Pseudomonas maculicola (McCul.) F. L. Stevens). Hunan (26), Kwangtung (26)
Bacterial soft rot (Erwinia aroideae (Town.) Holland). Hunan (26), Kiangsu (53)
Mosaic (may be a strain of Marmor brassicae Holmes, Turnip virus 1). "Widespread in different districts in China." (27)
Stem-rot, nonpar. Kweichow (39)
Virus, unidentified. Kiangsu (53)
- B. juncea Coss., leaf-mustard
Bacterial black spot (Pseudomonas maculicola (McCul.) F. L. Stevens). Hunan (26), Kwangtung (26)
Bacterial soft rot (Erwinia aroideae (Town.) Holland). Fukien (23), Hunan (26)
Mosaic (may be a strain of Marmor brassicae Holmes, Turnip virus 1). "Widespread in different districts in China." (27)
Mosaic, virus unidentified. Fukien (5)
- B. napus L., rape
Bacterial black spot (Pseudomonas maculicola (McCul.) F. L. Stevens). Yunnan (26)
- B. oleracea L. var. acephala DC., common kale
Bacterial black spot (Pseudomonas maculicola (McCul.) F. L. Stevens). Sikang (8)
Bacterial soft rot (Erwinia aroideae (Town.) Holland). Fukien (23), Kiangsu (53)
Bacterial soft rot (Erwinia carotovora (L. R. Jones) Holland). Honan (42)
Black rot (Xanthomonas campestris (Pam.) Dowson). Manchuria (18)
Virus, unidentified. Kiangsu (53)
- B. oleracea L. var. capitata L., cabbage
Bacterial soft rot (Erwinia aroideae (Town.) Holland). East China (32), Hopeh (2), Suiyuan (30)
Bacterial soft rot (Erwinia carotovora (L. R. Jones) Holland). Szechuan (31)
Black rot (Xanthomonas campestris (Pam.) Dowson). Suiyuan (30), Szechuan (31)
- B. pekinensis Rupr., chinese cabbage
Bacterial soft rot (Erwinia aroideae (Town.) Holland). Fukien (23), Kiangsu (16, 53), Manchuria (18)
Bacterial soft rot (Erwinia carotovora (L. R. Jones) Holland). Honan (42), Kiangsu (16)
Black rot (Xanthomonas campestris (Pam.) Dowson). Manchuria (18)
Mosaic, virus unidentified. Manchuria (18)
Virus, unidentified. Kiangsu (53)
- B. rapa L., turnip
Bacterial black spot (Pseudomonas maculicola (McCul.) F. L. Stevens). Sikang (8)
Mosaic (may be a strain of Marmor brassicae Holmes, Turnip virus 1). "Widespread in different districts in China." (27)
- Brassica sp.
Bacterial soft rot (Erwinia aroideae (Town.) Holland). Sikang (8)
Mosaic, virus unidentified. Anhwei (52), Chekiang (52), Kiangsu (52)
Root-knot (Heterodera marioni (Cornu) Goodey) [Meloidogyne sp.] Kwangtung (22)

BROMUS

- B. japonicus Thunb., Japanese chess
Dodder (Cuscuta japonica Choisy). Chekiang (40)

BROSSONETIA

- B. kaempferi Sieb., paper mulberry

(Broussonetia continued)

Dodder (Cuscuta japonica Choisy). Chekiang (40)

BUPLEURUM

B. falcatum L.

Dodder (Cuscuta japonica Choisy). Chekiang (40)

CALLICARPA

C. japonica Thunb.

Dodder (Cuscuta japonica Choisy). Chekiang (40)

Callicarpa sp.

Dodder (Cuscuta japonica Choisy). Chekiang (40)

CANARIUM

C. album (L.) Raeusch., Chinese olive

Crown gall (Agrobacterium tumefaciens (E. F. Sm. & Town.) Conn). Kwangtung (41)

Algal leaf spot (Cephaleuros virescens Kunze). Kwangtung (13)

CANAVALIA

C. gladiata DC., sword bean

Root-knot (Heterodera marioni (Cornu) Goodey). [Meloidogyne sp.] Kwangtung (22)

CAPSICUM

C. frutescens L., red pepper

Bacterial soft rot (Erwinia aroideae (Town.) Holland). Hunan (26), Jehol (18), Kiangsu (53), Kwangsi (26), Manchuria (18), Sikang (8), Yunnan (26)

Bacterial spot (Xanthomonas vesicatoria (Doidge) Dowson). Hunan (26), Manchuria (18), Shansi (29), Sikang (8), Yunnan (26, 36)

Brown rot (Xanthomonas solanacearum (E. F. Sm.) Dowson). Kiangsu (53)

Leaf curl, virus unidentified. Kwangtung (41)

Mosaic, virus unidentified. Chahar (30), Honan (42), Manchuria (18), Shansi (29), "widespread" (52)

Virus, unidentified. Kiangsu (53)

Witches' broom, virus unidentified. Honan (42)

C. frutescens L. var. grossum Bailey, bell pepper

Bacterial leaf spot (Pseudomonas sp.) Hopeh (2)

Capsicum sp.

Virus, unidentified. Kwangtung (15)

CARICA

C. papaya L., papaya

Mosaic, virus unidentified. Kwangtung (15, 41)

Root-knot (Heterodera marioni (Cornu) Goodey). [Meloidogyne sp.] Kwangtung (22)

CARPESIMUM

C. abrotanoides L.

Dodder (Cuscuta japonica Choisy). Chekiang (40)

CASTANEA

C. mollissima Bl., Chinese or oriental chestnut

Algal leaf spot (Cephaleuros virescens Kunze). Kwangtung (13)

Mistletoe (Loranthus yadoriki Sieb.). Fukien (5)

Mistletoe (Viscum japonicum Thunb.). Fukien (5)

Castanea sp.

Bacterial spot (Pseudomonas sp.). Honan (42)

CATALPA

Catalpa sp.

Root-knot (Heterodera marioni (Cornu) Goodey). [Meloidogyne sp.]. Szechuan (31)

CELTIS

C. sinensis Pers., Chinese hackberry

(Celtis continued)

Dodder (Cuscuta japonica Choisy). Chekiang (40)

CHIONANTHUS

C. retusa Lindl., fringe treeDodder (Cuscuta japonica Choisy). Chekiang (40)

CHRYSANTHEMUM

Chrysanthemum sp.Spotted wilt (Lethum australiense Holmes, Lycopersicon virus 3). Sikang (8)

CICHORIUM

C. endivia L., endiveBacterial soft rot (Erwinia carotovora (L. R. Jones) Holland). Honan (42)

CINNAMOMUM

C. camphora Nees & Eberm., camphor-treeMistletoe (Loranthus yadoridi Sieb.). Fukien (5)Mistletoe (Phoradendron sp.) Kwangsi (48)C. cassia Bl., cassia-bark treeAlgal leaf spot (Cephaleuros virescens Kunze). Kwangtung (13)

CIRSIIUM

C. japonicum DC.Dodder (Cuscuta japonica Choisy). Chekiang (40)Cirsium sp.Dodder (Cuscuta japonica Choisy). Chekiang (40)

CITRULLUS

C. vulgaris Schrad., watermelon

Mosaic, virus unidentified. Honan (42)

CITRUS

C. aurantifolia Swingle, persian limeCanker (Xanthomonas citri (Hasse) Dowson). Kwangsi (17)

Greasy spot, nonpar. Kwangsi (17)

C. aurantium L., sour orangeCanker (Xanthomonas citri (Hasse) Dowson). Fukien (23), Kwangtung (41)C. erythroa TanakaCanker (Xanthomonas citri (Hasse) Dowson). Kwangsi (17)

Foliocellosis, nonpar. Kwangsi (17)

Root-knot (Tylenchulus semi-penetrans Cobb). Kwangtung (21)C. grandis Osbeck, shaddockCanker (Xanthomonas citri (Hasse) Dowson). Kiangsi (25), Kwangsi (17, 26), Kwangtung

(41), Southern China (33, 34)

Foliocellosis, nonpar. Kwangsi (17)

Greasy spot, nonpar. Fukien (25), Kiangsi (25), Kwangsi (17)

Mistletoe (Loranthus parasiticus (L.) Merr.). Southern China (33, 34)Mistletoe (L. yadoriki Sieb.). Fukien (5)Mistletoe (Loranthus sp.). Kwangsi (17)

Mottling, virus unidentified. Kwangsi (17)

Root-nematode (Tylenchulus semi-penetrans Cobb). Kwangtung (21)

Pitting, nonpar. Kwangsi (17)

Psorosis (Rimocortius psorosis (Fawcett) Holmes). Kwangsi (17, 38)C. hotokan HayataCanker (Xanthomonas citri (Hasse) Dowson). Fukien (23)C. limon Burm., lemonCanker (Xanthomonas citri (Hasse) Dowson). Fukien (25), Kiangsi (17, 25), Southern China (33, 34)

Decline, nonpar. Fukien (25), Kwangtung (25)

Greasy spot, nonpar. Kwangsi (17)

(Citrus continued)

- Oleocellosis, nonpar. Fukien (25), Szechuan (25)
 Root-nematode (Tylenchulus semi-penetrans Cobb). Kwangtung (21)
- C. medica L., citron
 Canker (Xanthomonas citri (Hasse) Dowson). Kwangsi (17), Kwangtung (41)
- C. medioglobosa Hort. ex Tanaka
 Canker (Xanthomonas citri (Hasse) Dowson). Kwangsi (17)
- C. microcarpa Bge., Calamondin orange
 Canker (Xanthomonas citri (Hasse) Dowson). Kwangsi (17)
 Root nematode (Tylenchulus semi-penetrans Cobb). Kwangtung (21)
- C. nobilis Lour.
 Canker (Xanthomonas citri (Hasse) Dowson). Kwangsi (17), Kwangtung (41), Sikang (8), Southern China (33, 34).
 Foliocellosis, nonpar. Kwangsi (17)
 Greasy spot, nonpar. Kwangsi (17), Yunnan (36)
 Mottle leaf, nonpar. Kwangtung (41)
 Psorosis (Rimorcorctius psorosis (Fawcett) Holmes). Kwangsi (17, 38)
 Root-nematode (Tylenchulus semi-penetrans Cobb). Kwangtung (21)
 Rosette, nonpar. Southern China (34)
 Yellowing, nonpar. Kwangtung (41)
 Witches' broom, nonpar. Southern China (34)
- C. nobilis var. deliciosa Swingle, mandarin and tangerine orange
 Canker (Xanthomonas citri (Hasse) Dowson). Kwangsi (17)
 Foliocellosis, nonpar. Kwangsi (17)
 Greasy spot, nonpar. Kwangsi (17)
- C. oleocarpa Hort. ex Tanaka
 Foliocellosis, nonpar. Kwangsi (17)
- C. poonensis Tanaka
 Canker (Xanthomonas citri (Hasse) Dowson). Kwangsi (17)
 Decline, nonpar. Fukien (25), Kwangtung (25)
 Foliocellosis, nonpar. Kwangsi (17)
 Greasy spot, nonpar. Fukien (25), Kiangsi (25), Kwangsi (17)
 Mistletoe (Loranthus sp.). Fukien (25)
- C. sinensis Osbeck, sweet orange
 Canker (Xanthomonas citri (Hasse) Dowson). Fukien (5, 23, 25), Hunan (26), Kwangsi (17, 26, 38), Kwangtung (41), Sikang (8), Southern China (33, 34).
 Convex gum, virus ? Fukien (24, 25)
 Foliocellosis, nonpar. Kwangsi (17)
 Greasy spot, nonpar. Fukien (25), Kiangsi (25), Kwangsi (17)
 Magnesium deficiency, nonpar. Fukien (25), Kiangsi (25)
 Mesophyll collapse, nonpar. Fukien (25), Kiangsi (25), Szechuan (25)
 Mottle leaf, nonpar. Kwangtung (41), Southern China (33, 34)
 Oleocellosis, nonpar. Fukien (25), Szechuan (25)
 Psorosis (Rimocortius psorosis (Fawcett) Holmes). Kwangsi (38)
 Root-nematode (Tylenchulus semi-penetrans Cobb). Kwangtung (21)
 Rosette, nonpar. Southern China (33, 34)
 Yellowing, nonpar. Kwangtung (41), Southern China (33, 34)
- C. suhoiensis Tanaka
 Canker (Xanthomonas citri (Hasse) Dowson). Kwangsi (17)
 Greasy spot, nonpar. Kwangsi (17)
- C. tankan Hayata
 Canker (Xanthomonas citri (Hasse) Dowson). Fukien (23, 25), Kwangsi (17)
 Decline, nonpar. Fukien (25), Kwangtung (25)
 Greasy spot, nonpar. Fukien (25), Kiangsi (25), Kwangsi (17)
- C. tangerina Hort. ex Tanaka
 Bark rot, virus ? Fukien (25)
 Fruit splitting, nonpar. Fukien (25)
 Mistletoe (Loranthus sp.). Fukien (25)
- C. webberi
 Canker (Xanthomonas citri (Hasse) Dowson). Kwangtung (41)
- Citrus sp.
 Canker (Xanthomonas citri (Hasse) Dowson). Fukien (23), Kwangsi (48), Kwangtung (14)

(Citrus continued)

- Chlorosis, nonpar. Kwangsi (38)
 Dodder (Cuscuta sp.) Kwangsi (48)
 Foliocellosis, nonpar. Szechuan (31)
 Greasy spot, nonpar. Kwangtung (14)
 Mistletoe (Loranthus sp.). Kwangsi (38)
 Mottle leaf, nonpar. Kwangsi (38), Kwangtung (14)

CLAUSENA

- C. lansium Skeels, wampi
 Mistletoe (Loranthus parasiticus (L.) Merr.). Southern China (33, 34)

COCCULUS

- C. trilobus DC.
 Dodder (Cuscuta japonica Choisy). Chekiang (40)

COLOCASIA

- C. esculenta (L.) Schott, taro
 Bacterial leaf spot (?Bacterium colocasiae Takimoto). Manchuria (18), Sikang (8)
 Bacterial soft rot (Erwinia aroideae (Town.) Holland). Sikang (8)

COLUMELLA

- C. japonica (Willd.) Merr
 Dodder (Cuscuta japonica Choisy). Chekiang (40)

COMMELINA

- C. communis L.
 Dodder (Cuscuta japonica Choisy). Chekiang (40)

CORCHORUS

- C. capsularis L., jute
 Bacterial leaf spot (Xanthomonas nakatae (Okabe) Dowson). Hopeh (20), Shantung (20),
 Sikang (8)

CROTALARIA

- C. saltiana Andr., rattle-box
 Virus, unidentified Kwangtung (15)

CRYPTOTAENIA

- C. canadensis DC., honewort
 Dodder (Cuscuta japonica Choisy). Chekiang (40)

CUCUMIS

- C. melo L., muskmelon
 Bacterial spot (Pseudomonas lachrymans (E. F. Sm. & Bryan) Carsner). Honan (42)
 Mosaic, virus unidentified. Honan (42), Manchuria (18)
C. sativus L., cucumber
 Bacterial soft rot (Erwinia aroideae (Town.) Holland). Kiangsu (53)
 Bacterial spot (Pseudomonas lachrymans (E. F. Sm. & Bryan) Carsner). Honan (42),
 Manchuria (18), Sikang (8)
 Bacterial wilt (Erwinia tracheiphila (E. F. Sm.) Holland). Honan (42), Szechuan (31)
 Mosaic (Delphinium virus 1). Sikang (8)
 Mosaic (Marmor cucumeris Holmes, Cucumis virus 1). Hopeh (6), Sikang (8)
 Mosaic, virus unidentified. Chekiang (52), East China (32), Honan (42), Kiangsi (52),
 Kiangsu (52), Kwangtung (15), Manchuria (18)
 Root-knot (Heterodera marioni (Cornu) Goodey). [Meloidogyne sp.]. Kwangtung (22)
Cucumis sp.
 Root knot (Heterodera marioni (Cornu) Goodey). [Meloidogyne sp.] Kwangtung (22)

CUCURBITA

- C. maxima Duchesne, squash

(Cucurbita continued)

Mosaic, virus unidentified. Honan (42)

Root knot (Heterodera marioni (Cornu) Goodey). [Meloidogyne sp.]. Kwangtung (22)

C. moschata Duchesne, squash

Bacterial spot (Pseudomonas lachrymans (E. F. Sm. & Bryan) Carsner). Manchuria (18)

Mosaic, virus unidentified. East China (32), Manchuria (18), Shansi (30)

C. pepo L., pumpkin

Bacterial spot (Pseudomonas lachrymans (E. F. Sm. & Bryan) Carsner). Sikang (8)

Mosaic (Marmor cucumeris Holmes, Cucumis virus 1). Sikang (8)

Mosaic, virus unidentified. Kiangsu (52)

Cucurbita sp.

Mosaic, virus unidentified. Kiangsu (52)

CUDRANIA

C. tricuspidata Hce.

Dodder (Cuscuta japonica Choisy). Chekiang (40)

DAHLIA

Dahlia sp., dahlia

Mosaic, virus unidentified. Kiangsu (52)

DALBERGIA

D. hupenana Hce.

Dodder (Cuscuta japonica Choisy). Chekiang (40)

DATURA

D. metel L., datura

Mosaic, virus unidentified. Kiangsu (52)

DAUCUS

D. carota L., carrot

Bacterial soft rot (Erwinia aroideae (Town.) Holland). Kiangsu (53), Sikang (8)

Bacterial soft rot (Erwinia carotovora (L. R. Jones) Holland). Honan (42), Manchuria (18)

Root-knot (Heterodera marioni (Cornu) Goodey). [Meloidogyne sp.]. Kwangtung (22)

DESMODIUM

D. laburnifolium DC.

Dodder (Cuscuta japonica Choisy). Chekiang (40)

DIOSPYROS

D. kaki L., persimmon

Algal leaf spot (Cephaleuros virescens Kunze). Kwangtung (13)

D. kaki L. var. silvestris Mak.

Mistletoe (Loranthus yadoridi Sieb.). Fukien (5)

DOLICHOS

D. lablab L., hyacinth bean

Mosaic, virus unidentified. Chekiang (52), Honan (42), Kiangsu (52)

ECHINOCHLOA

E. crusgalli (L.) Beauv., barnyard grass

Dodder (Cuscuta japonica Choisy). Chekiang (40)

ERIOBOTRYA

E. japonica Lindl., loquat

Bacterial canker (Pseudomonas eriobotryae (Takimoto) Dowson). Sikang (8)

EUPATORIUM

E. chinensis L.

(Eupatorium continued)

- Dodder (Cuscuta japonica Choisy). Chekiang (40)
E. japonica Thunb.
 Dodder (Cuscuta japonica Choisy). Chekiang (40)

EUPHORBIA

- E. longan Lam., longan
 Algal leaf spot (Cephaleuros virescens Kunze). Kwangtung (13), Southern China (33)
 Erinose (Eriophyes sp.). Kwangtung (13)

EVONYMUS

- E. alata Reg., winged spindle-tree
 Dodder (Cuscuta japonica Choisy). Chekiang (40)
E. hamiltoniana Wall.
 Dodder (Cuscuta japonica Choisy). Chekiang (40)

FICUS

- F. carica L., fig
 Mosaic, virus unidentified. Kiangsu (52), Kwangtung (15)
 Virus, unidentified. Kiangsu (53)

FLUEGGEA

- F. capillipes Pax
 Dodder (Cuscuta japonica Choisy). Chekiang (40)

FORTUNELLA

- F. crassifolia Swingle, Meiwa kumquat
 Blast, (Pseudomonas syringae Van Hall). Kwangsi (17)
 Canker (Xanthomonas citri (Hasse) Dowson). Kwangsi (17)
 Fruit splitting, nonpar. Kwangsi (17)
Fortunella sp.
 Root-nematode (Tylenchulus semi-penetrans Cobb). Kwangtung (22)

FRAXINUS

- F. bungeana DC.
 Dodder (Cuscuta japonica Choisy). Chekiang (40)

GARDENIA

- G. jasminoides Ellis, Cape-jasmine
 Dodder (Cuscuta japonica Choisy). Chekiang (40)

GLYCINE

- G. max (L.) Merr., soybean
 Bacterial leaf blight (Xanthomonas phaseoli (E. F. Sm.) Dowson var. sojense (Hedges) Starr & Burk.). Anhwei (9), Honan (42), Hopeh (9, 30), Jehol (18), Kiangsu (9), Kwangtung (26), Manchuria (18), Shansi (29, 30), Shantung (9, 30), Suiyuan (30), Yunnan (26)
 Bacterial leaf spot (Pseudomonas glycinea Coerper). Honan (42), Sikang (8)
 Bacterial leaf spot (Pseudomonas glycinea var. japonica (Takimoto) Savulescu). Jehol (18), Manchuria (18)
 Dodder (Cuscuta chinensis Lam.). Honan (42), Jehol (18), Manchuria (18)
 Mosaic (Soja virus 1). Sikang (8)
 Mosaic, virus unidentified. Anhwei (52), East China (32), Honan (42), Hopeh (30), Kiangsu (52), Manchuria (18), Shantung (52)
 Virus, unidentified. Kiangsu (53)

GOSSYPIUM

- G. barbadense L., sea-island cotton
 Angular leaf spot (Xanthomonas malvacearum (E. F. Sm.) Dowson). Yunnan (36)
G. herbaceum L., G. hirsutum L., cotton
 Albasty, nonpar. Anhwei (9), Hopeh (9), Kiangsu (9), Shantung (9)
 Angular leaf spot (Xanthomonas malvacearum (E. F. Sm.) Dowson). Anhwei (9, 35),

(Gossypium continued)

- Chekiang (35), Fukien (5), Honan (35, 42), Hopeh (2, 9, 30, 35), Hunan (26, 35), Hupeh (35), Jehol (18), Kiangsi (35), Kiangsu (9, 35, 53), Kwangsi (35, 38, 48), Kweichow (39), Manchuria (18), Shansi (29, 30), Shantung (9, 30, 35), Shensi (35), Sikang (8), Szechuan (47), Yunnan (36)
- Cyrtosis (*Chlorita biguttula* Mats.). Anhwei (7, 35), Chekiang (7, 35), East China (32), Honan (7, 35, 42), Hopeh (35), Hunan (7, 35), Hupeh (7, 35), Kiangsi (7, 35), Kiangsu (7, 35, 53), Kweichow (39), Kwangsi (35), Shantung (35), Szechuan (47)
- "Rust" or potash hunger, nonpar. Honan (35, 42), Hopeh (35), Kiangsu (35), Shantung (35)
- Tomosis (*Lygus lucorum* Fieb. var. *Adelphocoris suturalis* Jak.). Anhwei (35), Chekiang (35), Honan (35, 42), Hopeh (35), Hunan (35), Hupeh (35), Kiangsi (35), Kiangsu (35, 53), Shantung (35), Szechuan (47)

HELIANTHUS

H. annuus L., sunflower

- Bacterial leaf spot (*Pseudomonas helianthi* (Kawamura) Savulescu). Manchuria (18)
Mosaic, virus unidentified. Manchuria (18)

HEMIPTOLEA

H. davidi Planch.

- Dodder (*Cuscuta japonica* Choisy). Chekiang (40)

HIBISCUS

H. esculentus L., okra

- Root knot (*Heterodera marioni* (Cornu) Goodey). [*Meloidogyne* sp.]. Kwangtung (22)

Hibiscus sp.

- Bacterial spot (*Pseudomonas syringae* Van Hall). Sikang (8)

HORDEUM

H. vulgare L., barley

- Bacterial blight (*Xanthomonas translucens* (L. R. Jones et al.) Dowson). Manchuria (18)

HUMULUS

H. scandens Merr., Japanese hop

- Dodder (*Cuscuta japonica* Choisy). Chekiang (40)

IMPERATA

I. cylindrica (L.) Beauv.

- Dodder (*Cuscuta japonica* Choisy). Chekiang (40)

IPOMOEA

I. batatas Lam., sweetpotato

- Mosaic, virus unidentified. Chekiang (52)
Virus, unidentified. Kiangsu (53)

I. reptans (L.) Poir.

- Root-knot (*Heterodera marioni* (Cornu) Goodey). [*Meloidogyne* sp.]. Kwangtung (22)

JUGLANS

J. regia L. Persian walnut

- Bacterial blight (*Xanthomonas juglandis* (Pierce) Dowson). Honan (42), Hopeh (30)

KOELREUTERIA

K. integrifoliola Merr.

- Dodder (*Cuscuta japonica* Choisy). Chekiang (40)

LACTUCA

L. sativa L., lettuce

- Bacterial marginal rot (*Pseudomonas marginalis* (N. A. Brown) F. L. Stevens). Manchuria (18), Szechuan (31)

- Bacterial soft rot (*Erwinia aroideae* (Town.) Holland). Kiangsu (53)

- Bacterial spot (*Xanthomonas vitians* (N. A. Brown) Starr & Weiss). Hunan (26)

(Lactuca continued)

- Mosaic, virus unidentified. Chekiang (52), Hupeh (52), Kiangsu (52), Szechuan (52)
 Root-knot (Heterodera marioni (Cornu) Goodey). [Meloidogyne sp.]. Kwangtung (22)
 Virus, unidentified. Kiangsu (53)

LAGENARIA

- L. siceraria Standl., white-flowered gourd
 Bacterial spot (Pseudomonas lachrymans (E. F. Sm. & Bryan) Carsner). Sikang (8)
 Mosaic (Marmor cucumeris Holmes, Cucumis virus 1). Sikang (8)

LATHYRUS

- L. odoratus L., sweetpea
 Virus, unidentified. Kiangsu (53)

LINUM

- L. usitatissimum L., flax
 Dodder (Cuscuta epilinum Weihe). Manchuria (18)

LIGUSTRUM

- L. lucidum Ait., glossy privet
 Dodder (Cuscuta japonica Choisy). Chekiang (40)
L. compactum Hook
 Dodder (Cuscuta japonica Choisy). Chekiang (40)
L. robustum Bl.
 Dodder (Cuscuta japonica Choisy). Chekiang (40)

LIQUIDAMBAR

- L. formosana Hance
 Dodder (Cuscuta japonica Choisy). Chekiang (40)
 Mistletoe (Loranthus yadoriki Sieb.). Fukien (5)
 Mistletoe (Phoradendron sp.). Kwangsi (48)

LITCHI

- L. chinensis Soon., litchi
 Algal leaf spot (Cephaleuros virescens Kunze). Kwangtung (13)
 Erinose (Eriophyes sp.). Kwangtung (13)

LITHOCARPUS

- L. uvariifolia (Hance) Rehder
 Algal leaf spot (Cephaleuros virescens Kunze). Kwangtung (13)

LUFFA

- L. acutangula Roxb., acute-angled cucumber
 Bacterial spot (Pseudomonas lachrymans (E. F. Sm. & Bryan) Carsner). Sikang (8)

LYCOPERSICON

- L. esculentum Mill., tomato
 Bacterial spot (Pseudomonas vesicatoria (Doidge) Dowson). Honan (42), Hunan (26)
 Bacterial soft rot (Erwinia carotovora (L. R. Jones) Holland). Szechuan (45)
 Bacterial wilt (Xanthomonas solanacearum (E. F. Sm.) Dowson). Hunan (26), Fukien (5, 23), Kiangsu (53), Kwangtung (26), Southern China (33)
 Blossom end rot, nonpar. Fukien (5), Kweichow (39), Manchuria (18)
 Bottom rot, nonpar. Szechuan (45)
 Bunchy top (Lycopersicon virus 6). Szechuan (45)
 Common mosaic (Marmor tabaci Holmes, Nicotiana virus 1). Fukien (23), Chekiang (52), Honan (52), Kiangsu (32, 52), Kwangtung (41), Shansi (29), Shantung (52), Szechuan (45)
 Fern leaf (Marmor cucumeris Holmes, Cucumis virus 1). Szechuan (45)
 Leaf curl, virus unidentified. Chekiang (52), Honan (52), Kiangsu (52), Shantung (52)
 Leaf roll, virus unidentified. Kiangsu (52)
 Root-knot (Heterodera marioni (Cornu) Goodey). [Meloidogyne sp.]. Kwangtung (22)

(Lycopersicon continued)

- Rugose mosaic, virus unidentified. Kiangsu (52)
 Spotted wilt (Lethum australiense Holmes, Lycopersicon virus 3). Szechuan (45)
 Streak (Complex of Marmor dubium (Holmes) Holmes and M. tabaci Holmes; Solanum virus 1 and Nicotiana virus 1). Kiangsu (52), Szechuan (45)
 Virus, unidentified. Jehol (18), Kiangsu (53), Manchuria (18), Kwangtung (15)
 Yellow mosaic (Marmor tabaci Holmes, Nicotiana virus 1). Szechuan (45)
 Witches' broom, virus unidentified. Honan (42)

LYCORIS

- L. radiata Herb.
 Dodder (Cuscuta japonica Choisy). Chekiang (40)

MALLOWUS

- M. repandus Muell-Arg.
 Dodder (Cuscuta japonica Choisy). Chekiang (40)

MALUS

- M. sylvestris Mill., apple
 Crown gall (Agrobacterium tumefaciens (E. F. Smith & Town.) Conn). Kiangsu (53),
 Manchuria (18)
 Mosaic, virus unidentified. Hopeh (2, 30), Manchuria (18)

MALVA

- M. sylvestris L., cheese flower
 Dodder (Cuscuta japonica Choisy). Chekiang (40)

MAGNOLIA

- M. grandiflora L.
 Algal leaf spot (Cephaleuros virescens Kunze). Kwangtung (13)

MANGIFERA

- M. indica L., mango
 Algal leaf spot (Cephaleuros virescens Kunze). Kwangtung (13)
 Pleurococcus blotch (Pleurococcus sp.). Kwangtung (13)

MEDICAGO

- M. sativa L., alfalfa
 Mosaic, virus unidentified. Kiangsu (52)

MELILOTUS

- M. alba Desr., white sweetclover
 Mosaic, virus unidentified. Kiangsu (52)
M. indica All.
 Bacterial leaf spot (Pseudomonas syringae Van Hall). Yunnan (26)

MICHELIA

- M. fuscata Bl.
 Algal leaf spot (Cephaleuros virescens Kunze). Kwangtung (13)

MISCANTHUS

- M. sinensis Anderss., eulalia
 Dodder (Cuscuta japonica Choisy). Chekiang (40)
Miscanthus sp.
 Broom rape (Orobanche sp.). Honan (42)

MORUS

- M. alba L., white-fruited mulberry
 Bacterial blight (Pseudomonas mori (Boyer & Lambert) F. L. Stevens). Kiangsu (53),
 Kwangtung (41), Sikang (8), Szechuan (31)
 Mosaic, virus unidentified. Kwangtung (15)

(Morus continued)

Root-knot (Heterodera marioni (Cornu) Goodey) [Meloidogyne sp.]. Kwangtung (22)

NELUMBO

N. nucifera Gaertn., East Indian lotus

Dodder (Cuscuta japonica Choisy). Chekiang (40)

NICOTIANA

N. tabacum L., tobacco

Angular leaf spot (Pseudomonas angulata (Fromme & Murray) Holland). Sikang (8), Yunnan (26)

Black leg (Erwinia aroideae (Town.) Holland). Honan (42), Hopeh (30), Kiangsu (53), Manchuria (18), Sikang (8)

Chlorosis, nonpar. Southern China (33)

Common mosaic (Marmor tabaci Holmes, Nicotiana virus 1). Chahar (30), Fukien (5),

Honan (42), Hopeh (9, 30), Hupeh (52), Jehol (18), Kwangtung (13), Manchuria (18),

Shansi (29), Shantung (9, 30, 52), Sikang (8), Southern China (33), Szechuan (49)

Granville wilt (Xanthomonas solanacearum (E. F. Sm.) Dowson). Honan (42), Hopeh (30), Kiangsu (53), Shantung (9, 30), Sikang (8), Southern China (33)

Leaf curl, virus unidentified. Hupeh (52)

Latent mosaic (Annulus dubius Holmes, Solanum virus 1). Sikang (8)

Mosaic (Marmor upsilon Holmes, Solanum virus 2). Sikang (8)

Ring spot (Annulus tabaci Holmes, Nicotiana virus 12). Honan (42), Hupeh (52), Manchuria (18), Shansi (29), Shantung (9), Sikang (8), Szechuan (49, 52)

Spot necrosis, virus unidentified. Hupeh (52)

Wild fire (Pseudomonas tabaci (Wolf & Foster) F. L. Stevens). Honan (42), Hopeh (30), Hunan (26), Jehol (18), Kiangsu (53), Kweichow (39), Manchuria (18), Shantung (30),

Szechuan (49), Yunnan (26)

Virus, unidentified. Kweichow (39)

ORYZA

O. sativa L., rice

Bacterial leaf blight (Xanthomonas oryzae (Uyeda & Ishiyama) Dowson). Kiangsu (44), Sikang (8), Yunnan (36)

Dwarf disease (Fractillinea oryzae (Holmes) Holmes, Oryza virus 1). Sikang (8)

Straighthead, nonpar. Kiangsu (44)

OXALIS

O. martiana Zucc.

Root-nematode (Tylenchulus semi-penetrans Cobb). Kwangtung (21)

PANICUM

P. miliaceum L., broom-corn millet

Bacterial stripe (Pseudomonas panici-miliacei (Ikata & Yamauchi) Savulescu). Manchuria (18)

PERILLA

P. ocimoides L.

Dodder (Cuscuta japonica Choisy). Chekiang (40)

PERSEA

P. americana Mill., avocado

Algal leaf spot (Cephaleuros virescens Kunze). Kwangtung (13)

PETROSELINUM

P. crispum Nym.

Root-nematode (Tylenchulus semi-penetrans Cobb). Kwangtung (21)

PETUNIA

P. violacea Lindl., petunia

Mosaic, virus unidentified. Kiangsu (52)

PEUCEDANUM

- P. decursivum Max.
Dodder (Cuscuta japonica Choisy). Chekiang (40)

PHASEOLUS

- P. limensis Macf., lima bean
Mosaic, virus unidentified. Kiangsu (52)
- P. lunatus L., sieva bean
Mosaic, virus unidentified. Kwangtung (15)
- P. mungo L.
Bacterial blight (Xanthomonas phaseoli (E. F. Sm.) Dowson). Manchuria (18), Sikang (8)
Common mosaic (Marmor phaseoli Holmes, Phaseolus virus 1). Honan (42), Sikang (8)
Virus, unidentified. Manchuria (18)
- P. radiatus L.
Bacterial blight (Xanthomonas phaseoli (E. F. Sm.) Dowson). Manchuria (18)
Mosaic, virus unidentified. Hopeh (30)
Virus, unidentified. Manchuria (18)
- P. vulgaris L., kidney bean
Bacterial leaf spot (Xanthomonas phaseoli (E. F. Sm.) Dowson var. sojense (Hedges) Starr & Burkh.). Sikang (8)
Bacterial blight (Xanthomonas phaseoli (E. F. Sm.) Dowson). Honan (42), Kiangsu (53), Southern China (33), Szechuan (31), Yunnan (26)
Common mosaic (Marmor phaseoli Holmes, Phaseolus virus 1). Hopeh (6), Sikang (8)
Mosaic, virus unidentified. Chekiang (52), Honan (42), Kiangsu (52), Kwangtung (15), Manchuria (18)
Root-knot (Heterodera marioni (Cornu) Goodey) [Meloidogyne sp.]. Kwangtung (22)
Virus, unidentified. East China (33), Kiangsu (53)
Yellow mosaic (Phaseolus virus 2). Sikang (8)

PHYLLOSTACHYS

- P. bambusoides Sieb. & Zucc.
Dodder (Cuscuta japonica Choisy). Chekiang (40)

PISUM

- P. sativum L., garden pea
Mosaic, virus unidentified. Kiangsu (52), Shantung (52)
Root-knot (Heterodera marioni (Cornu) Goodey). [Meloidogyne sp.]. Kwangtung (22)
Streak (Marmor iners Holmes). Kiangsu (52)
Virus, unidentified. Kiangsu (53)

POLYGONUM

- P. alatum Ham.
Dodder (Cuscuta japonica Choisy). Chekiang (40)
- P. cuspidatum Sieb. & Zucc.
Dodder (Cuscuta japonica Choisy). Chekiang (40)
- P. flaccidium Roxb.
Dodder (Cuscuta japonica Choisy). Chekiang (40)
- P. hastano-sagittatum Mak.
Dodder (Cuscuta japonica Choisy). Chekiang (40)

POPULUS

- P. alba L., white poplar
Dodder (Cuscuta japonica Choisy). Chekiang (40)
- Populus sp.
Mistletoe (Viscum album L.). Honan (42)

PRIMULA

- P. sinensis Lindl., Chinese primrose
Mosaic, virus unidentified. Kiangsu (52)

PRUNUS

- P. armeniaca L., apricot
Bacterial spot (Xanthomonas pruni (E. F. Sm.) Dowson). Hopeh (30), Shantung (30)
Crown gall (Agrobacterium tumefaciens (E. F. Sm. & Town.) Conn). Kiangsu (53)
- P. cerasus L., sour cherry
Bacterial spot (Xanthomonas pruni (E. F. Sm.) Dowson). Manchuria (18)
- P. domestica L., common or European plum
Bacterial spot (Xanthomonas pruni (E. F. Sm.) Dowson). Hunan (26)
- P. manshurica Kochine
Bacterial spot (Xanthomonas pruni (E. F. Sm.) Dowson). Manchuria (18)
- P. persica Sieb. & Zucc., peach
Bacterial spot (Xanthomonas pruni (E. F. Sm.) Dowson). Hopeh (30), Hunan (26),
Kiangsu (53), Shansi (30), Shantung (30), Sikang (8), Yunnan (26)
Crown gall (Agrobacterium tumefaciens (E. F. Sm. & Town.) Conn). Honan (42),
Kiangsu (53)
Dodder (Cuscuta japonica Choisy). Chekiang (40)
Rosette, virus unidentified. Hopeh (30)
Yellowing, nonpar. Southern China (33)
- P. salicina Lindl., Japanese plum
Bacterial spot (Xanthomonas pruni (E. F. Sm.) Dowson). Honan (42), Manchuria (18)
- Prunus sp.
Fire blight (Erwinia amylovora (Burrill) Winslow et al.). Honan (42)

PSIDIUM

- P. guajava L., guava
Algal leaf spot (Cephaleuros virescens Kunze). Kwangtung (13)
Mistletoe (Loranthus yadoridi Sieb.). Fukien (5)

PTERIDIUM

- P. aquilinum (L.) Kuehn
Dodder (Cuscuta japonica Choisy). Chekiang (40)

PTEROCARYA

- P. stenoptera DC., Chinese ash
Dodder (Cuscuta japonica Choisy). Chekiang (40)
Mistletoe (Loranthus yadoriki Sieb.). Sikang (8)
Mistletoe (Viscum album L.). Honan (42)

PUERARIA

- P. thunbergiana Benth.
Dodder (Cuscuta japonica Choisy). Chekiang (40)

PYRUS

- P. serotina Rehd., oriental pear
Erinose (Eriophyes piri Nal.). Hopeh (30), Manchuria (18)
- Pyrus sp.
Fire blight (Erwinia amylovora (Burrill) Winslow et al.). Hopeh (30), Kwangtung (41),
Sikang (8)
Mistletoe (Loranthus yadoriki Sieb.). Fukien (5)

QUERCUS

- Q. acutissima Carr.
Mistletoe (Loranthus yadoriki Sieb.). Sikang (8)
- Q. serrata Thunb.
Mistletoe (Loranthus yadoriki Sieb.). Sikang (8)
- Quercus sp.
Balanophora sp. Honan (42)

RAPHANUS

- R. sativus L., radish
Bacterial black spot (Pseudomonas maculicola (McCul.) F. L. Stevens). Hunan (26),
Kwangsi (26), Manchuria (18), Sikang (8)

(Raphanus continued)

- Bacterial soft rot (Erwinia aroideae (Town.) Holland). Honan (42), Hopeh (2)
 Bacterial soft rot (Erwinia carotovora (L. R. Jones) Holland). Honan (42)
 Black rot (Xanthomonas campestris (Pam.) Dowson). Honan (42), Manchuria (18),
 Sikang (8)
 Mosaic, virus unidentified. Jehol (18), Kiangsu (52), Manchuria (18)
 Virus, unidentified. Kiangsu (53)

- R. sativus L. var. longipinnatus Bailey, Chinese radish
 Mosaic, (may be a strain of Marmor brassicae Holmes, Turnip virus 1). "Widespread
 in different districts in China." (27)

RHUS

- R. chinensis Mill.
 Dodder (Cuscuta japonica Choisy). Chekiang (40)
R. sylvestris Sieb. & Zucc.
 Dodder (Cuscuta japonica Choisy). Chekiang (40)

RICINUS

- R. communis L., castor bean
 Bacterial leaf spot (Xanthomonas ricinicola (Elliott) Dowson). Honan (42), Hopeh (19),
 Jehol (18), Manchuria (18), Shansi (29), Shantung (19), Sikang (8)

ROSA

- R. acicularis Lindl.
 Dodder (Cuscuta japonica Choisy). Chekiang (40)
R. multiflora Thunb.
 Dodder (Cuscuta japonica Choisy). Chekiang (40)

RUBUS

- R. lambertianus Ser.
 Dodder (Cuscuta japonica Choisy). Chekiang (40)
R. parvifolius L.
 Dodder (Cuscuta japonica Choisy). Chekiang (40)
Rubus sp.
 Mosaic, virus unidentified. Kiangsu (52)

RUMEX

- Rumex sp.
 Dodder (Cuscuta chichymum L.). Sikang (8)

SACCHARUM

- S. officinarum L., sugarcane
 Bacterial red stripe (Xanthomonas rubrilineans (Lee et al.) Starr & Burk.). Kwang-
 tung (12, 26)
 Magnesium chlorosis, nonpar. Kwangtung (12)
 Mosaic (Marmor sacchari Holmes, Saccharum virus 1). Fukien (5, 28, 52), Kwangtung
 (12, 15), Sikang (8), Szechuan (28, 52)
 Sectional chlorosis, nonpar. Kwangtung (12)
 Yellow stripe, nonpar. Kwangtung (12), Southern China (33)

SALIX

- S. babylonica L., weeping willow
 Dodder (Cuscuta japonica Choisy). Chekiang (40)
 Mistletoe (Loranthus yadoridi Sieb.). Sikang (8)
S. bockii Seem.
 Mistletoe (Loranthus yadoridi Sieb.). Sikang (8)
S. wilsonii Seem.
 Dodder (Cuscuta japonica Choisy). Chekiang (40)
Salix sp.
 Dodder (Cuscuta major DC.). Honan (42)
 Dodder (Cuscuta sp.). Kwangsi (48)

SASA

- S. albo-marginata Mak. & Shib.
Dodder (Cuscuta japonica Choisy). Chekiang (40)

SAURURUS

- S. loureiri Dcne., lizard's tail
Dodder (Cuscuta japonica Choisy). Chekiang (40)

SAUSSUREA

- S. affinis Spr.
Dodder (Cuscuta japonica Choisy). Chekiang (40)

SCROPHULARIA

- S. patriniana Wycl.
Dodder (Cuscuta japonica Choisy). Chekiang (40)

SESAMUM

- S. indicum L., sesame
Bacterial spot (Pseudomonas sesami Malkoff). Honan (42), Hopeh (30), Hunan (26), Jehol (18), Kweichow (39), Manchuria (18), Shansi (30), Sikang (8)
Bacterial wilt (Xanthomonas solanacearum (E. F. Sm.) Dowson). Honan (42), Sikang (8)
Virus, unidentified. Kiangsu (53)
Witches' broom, virus unidentified. Honan (42)

SETARIA

- S. italica (L.) Beauv., foxtail millet
Bacterial brown stripe (Pseudomonas setariae (Okabe) Savulescu). Manchuria (18)
Nematode disease (Anguillulina sp.). Hopeh (1)

SOLANUM

- S. melongena L., eggplant
Bacterial wilt (Xanthomonas solanacearum (E. F. Sm.) Dowson). Manchuria (18), Sikang (8), Southern China (33)
Mosaic (Marmor tabaci Holmes, Nicotiana virus 1). Sikang (8)
Mosaic, virus unidentified. Kwangtung (15)
Root-knot (Heterodera marioni (Cornu) Goodey). [Meloidogyne sp.]. Kwangtung (22)
Virus, unidentified. Kiangsu (53)
- S. tuberosum L., potato
Aucuba mosaic (Marmor aucuba Holmes, Solanum virus 9). Sikang (8)
Bacterial soft rot (Erwinia aroideae (Town.) Holland). Manchuria (18), Sikang (8)
Black leg (Erwinia carotovora (L. R. Jones) Holland). Honan (42)
Brown rot (Xanthomonas solanacearum (E. F. Sm.) Dowson). Kiangsu (53), Sikang (8)
Latent mosaic (Annulus dubius (Holmes) Holmes, Solanum virus 1). Sikang (8)
Leaf roll (Corium solani Holmes, Solanum virus 14). Chinghai (11), Honan (11, 42), Hupeh (11), Kansu (11), Kiangsu (52), Kweichow (11), Shensi (11), Szechuan (11), Yunnan (11)
Mild mosaic (Marmor solani Holmes, Solanum virus 3). Kweichow (11), Sikang (8)
Mosaic, virus unidentified. East China (32), Honan (42), Kwangtung (13, 41), Shantung (4), Shansi (30), "General" (52)
Rugose mosaic (Complex of Marmor upsilon Holmes and M. dubium (H.) Holmes; Solanum virus 2 and Solanum virus 1). Chinghai (11), Kansu (11), Kweichow (11), Shensi (11), Sikang (8), Szechuan (11)
Scab (Streptomyces scabies (Thaxter) Waksman & Henrici). Anhwei (9), East China (32), Honan (42), Hopeh (9), Kiangsu (9), Kwangtung (41), Manchuria (18), Shantung (9), Szechuan (37)
Spindle sprout, viruses unidentified. Chinghai (11), Kansu (11), Shensi (11)
Spindle tuber (Acrogenus solani Holmes, Solanum virus 12). Kiangsu (52)
Virus, unidentified. Jehol (18), Kiangsu (53), Manchuria (18)
Witches' broom (Chlorogenus solani Holmes, Solanum virus 15). Kiangsu (52), Kweichow (11)

SOPHORA

- S. flavescens Ait. var. galegonides Hemsl.
Dodder (Cuscuta japonica Choisy). Chekiang (40)

SORGHUM

- S. vulgare Pers., sorghum
Bacterial spot (? Bacillus sorghi Burr.). Yunnan (26)
Bacterial spot (Pseudomonas syringae Van Hall). Hunan (26), Yunnan (26)
Bacterial stripe (Pseudomonas andropogoni (E. F. Sm.) Stapp). Honan (42), Shansi (29)
Stripe (Fractilinea zeae (Holmes) Holmes, Zea virus 1). Sikang (8)

SPINACIA

- S. oleracea L., spinach
Mosaic (Marmor cucumeris Holmes, Cucumis virus 1). Sikang (8)
Mosaic, virus unidentified. Anhwei (52), Chekiang (52), Hunan (52), Hupeh (52), Kiangsi (52)
Root-knot (Heterodera marioni (Cornu) Goodey). [Meloidogyne sp.]. Kwangtung (22)
Virus, unidentified. Kiangsu (53)

SYZYGIUM

- S. jambos (L.) Alston, rose-apple
Algal leaf spot (Cephaleuros virescens Kunze). Kwangtung (13)

THEA

- T. sinensis L., tea
Algal leaf spot (Cephaleuros virescens Kunze). Fukien (43), Kwangtung (14)
Bacterial leaf spot (Bacillus theae Hori & Bokura). Fukien (43), Yunnan (26)
Black speck, nonpar. Fukien (43)
Dodder (Cuscuta japonica Choisy). Chekiang (46)
Silver leaf, nonpar. Fukien (43)

TORILIS

- T. anthriscus Bernh.
Dodder (Cuscuta japonica Choisy). Chekiang (40)

TRIFOLIUM

- T. repens L., white clover
Mosaic, virus unidentified. Kiangsu (52)
Trifolium spp.
Mosaic, virus unidentified. Kiangsu (52)

TRITICUM

- T. aestivum L., wheat
Bacterial blight (Xanthomonas translucens (L. R. Jones, A. G. Johns., & Reddy) Dowson). Honan (42), Manchuria (18)
Bacterial disease (Corynebacterium tritici (Hutchinson) Burk.). Hopeh (2, 3), Kweichow (3)
Nematode (Anguillulina tritici (Steinbuch) Gervais & v. Beneden) [Anguina tritici (Steinbuch) Filip.]. Anhwei (9, 10), Chahar (10), Chekiang (10), Chinghai (10), Fukien (10), Honan (10, 42), Hopeh (1, 2, 3, 9, 10), Hunan (10), Hupeh (10), Kansu (10), Kiangsi (10), Kiangsu (9, 10, 32, 53), Kwangsi (10), Kwangtung (10), Kweichow (3, 10), Manchuria (18), Ningsia (10), Shansi (10), Shantung (4, 9, 10), Shensi (10), Sikang (10), Sinkiang (10), Suiyuan (10), Szechuan (10), Yunnan (10)

TROPAEOLUM

- T. majus L., garden nasturtium
Mosaic, virus unidentified. Szechuan (52)

VICIA

- V. faba L., broad bean
Bacterial blight (Pseudomonas viciae Uyeda). Manchuria (18)

(Vicia continued)

- Bacterial stem blight (Pseudomonas fabae (Yu) Burk.). Kiangsu (50, 53)
 Enation mosaic (Marmor pisi Holmes, Pisum virus 1). South-east part of China (54)
 Mild mosaic, (mild mosaic virus). Chekiang (51, 52), Kiangsu (51)
 Mosaic, virus unidentified. Anhwei (52), East China (32), Hunan (52), Hupeh (52),
 Chekiang (52), Kiangsi (52), Kiangsu (52), Szechuan (52)
 Rosette, virus unidentified. Kiangsu (52)
 Spotted wilt (Lethum australiense Holmes, Lycopersicon virus 3). Szechuan (56)
 Virus, unidentified. Kiangsu (53)

VIGNA

V. sinensis Savi, cowpea

- Mosaic (Marmor cucumeris Holmes, Cucumis virus 1). "Very prevalent along the
 Yangtze valley." (55)
 Mosaic, virus unidentified. Anhwei (52), Honan (42), Chekiang (52), Kiangsi (52),
 Kiangsu (52)
 Root-knot (Heterodera marioni (Cornu) Goodey) [Meloidogyne sp.]. Kwangtung (23)
 Virus, unidentified. East China (32), Kiangsu (53), Szechuan (37)
 Witches' broom, virus unidentified. Honan (42)

VITEX

V. trifolia L.

- Dodder (Cuscuta japonica Choisy). Chekiang (40)

VIOLA

Viola sp.

- Mosaic, virus unidentified. Honan (42)
 Root-nematode (Tylenchulus semi-penetrans Cobb). Kwangtung (21)

VITIS

V. vinifera L., grape

- Erinose (Eriophyes vitis Nal.). Hopeh (9, 30), Manchuria (18), Shantung (9, 30)

XYLOSMA

X. congestum (Lour.) Merr.

- Dodder (Cuscuta japonica Choisy). Chekiang (40)

ZANTHOXYLUM

Z. alatum Roxb., Japanese pepper

- Dodder (Cuscuta japonica Choisy). Chekiang (40)

Zanthoxylum sp.

- Dodder (Cuscuta japonica Choisy). Chekiang (40)

ZEA

Z. mays L., corn

- Bacterial wilt (Bacterium stewarti E. F. Sm.). Honan (42)
 Mosaic, virus unidentified. Hunan (52), Kwangtung (15)
 Streak (Fractilinea maidis (Holmes) McKinney, Zea virus 2). Hunan (52), Sikang (8)
 Stripe (Fractilinea zeae (Holmes) Holmes, Zea virus 1). Sikang (8)

ZIZYPHUS

Z. jujuba Mill, jujube

- Witches' broom, virus unidentified. Honan (42), Shansi (29)

Z. spinosus Hu

- Virus, unidentified. Honan (42), Hupeh (2)

Literature Cited

1. Chang, T. S. 1916. A list of prevailing plant diseases in the vicinity of Peking (In Chinese) Third Report of the Central Agr. Expt. Sta., Ministry of Agr. and Com., 16 pp.
2. Cheo, C. C. 1936. A preliminary survey of plant diseases on cultivated plants in

- Hopeh province (In Chinese with English summary) Chinese Bot. Mag. 3: 977-1011.
3. _____, 1946. A note on the relation of nematodes (Tylenchus tritici) to the development of the bacterial disease of wheat caused by Bacterium tritici. Ann. Appl. Biol. 33: 446-449.
 4. Chiu, W. F. 1937. A report of a disease survey on some important crops in Chining, Shantung (In Chinese). Nung Ling Sing Pao 14: 604-605.
 5. _____, 1941. Diseases of economic plants in Fukien. (In Chinese with English summary) New Agr. Jour. Fukien 1: 70-75, 161-166, 219-229.
 6. _____, 1948. A note on the occurrence of some serious diseases of important vegetables in Peiping. Acta Agriculturae 1: 139.
 7. Cook, O. F. 1920. A disorder of cotton plants in China: club leaf or cyrtosis. Jour. Heredity 2: 99-110.
 8. Chu, C. R. 1941. Observations on plant diseases in Sikang (In Chinese). In the Report on the Scientific Expedition to the Province of Sikang, by the Chinese Natural Sciences Society: 93-115.
 9. Chu, V. M. 1935. Notes on some plant diseases along the railway line in Kiangsu, Anhwei, Shantung and Hopeh provinces in the fall of 1935. (In Chinese). Nung Pao 2: 1293-1304.
 10. _____, 1945. The prevalence and distribution of the wheat nematode in China. (In Chinese) Agr. Ext. Bull. 7(8): 31-36, (9): 36-44.
 11. Dykstra, T. P. 1944. Potato production problems in China. Amer. Potato Jour. 21: 123-131.
 12. Ho, William T. H. 1935. Diseases of sugarcane in Kwangtung. (In Chinese with English summary) Lingnan Agr. Jour. 1(3): 53-101.
 13. _____, 1936. The fruit diseases of Kwangtung, II. (In Chinese with English summary) Lingnan Agr. Jour. 2(1): 35-104.
 14. _____, 1937. The fruit diseases of Kwangtung, III. (In Chinese with English summary) Lingnan Agr. Jour. 3(1): 1-54.
 15. _____, and L. Y. Li. 1936. Preliminary notes on the virus diseases of some economic plants in Kwangtung province. Lingnan Sci. Jour. 15: 67-78.
 16. Hwang, L. 1933. A preliminary study on bacterial soft rot of Brassica pekinensis and other vegetables in China. Bull. Coll. Agr. Univ. Nanking no. (n.s.) 33.
 17. _____, 1943. Citrus diseases in Kwangsi. (In Chinese). The Kwangsi Agriculture 4: 27-61.
 18. Iwaware, S., M. Sasaki, and N. Naito. 1943. Catalogue of diseases of farm crops in "Manchukuo" (In Japanese). "Manchukuo" Nat. Agr. Expt. Sta. Rept. no. 45, 233 pp.
 19. Katsura, K., and T. Nakada. 1944. Some new records of plant diseases in North China, I. (In Japanese) North China Agr. Jour. (51): 5-8.
 20. _____, 1945. Some new records of plant diseases in North China, II. (In Japanese) North China Agr. Jour. (52): 1-4.
 21. Li, L. W. 1935. A preliminary report on the occurrence of Tylenchulus semi-penetrans Cobb in the roots of citrus nursery plants of South China. Lingnan Sci. Jour. 14: 331-333.
 22. _____, and T. C. Lei. 1938. Notes on Heterodera marioni as root parasites in some Kwangtung economic plants and weeds. Lingnan Sci. Jour. 17: 533-537.
 23. Lin, C. K. 1937. Preliminary notes on some important plant diseases in Fukien. (In Chinese). Nung Ling Sing Pao 14: 347-350.
 24. Lin, H. K. 1947. Convex gum, a new disease of citrus in China. Phytopath. 33: 394-397.
 25. _____, 1947. Observations on citrus diseases in China. Plant Dis. Repr. 31: 107-111.
 26. Lin, L. T., and Y. K. Li. 1949. A synoptic report of cultivated plant diseases in Yunnan, Hunan, Kwangsi and Kwangtung (1939-1943). (In Chinese with English summary). Agr. Information (232): 20-44.
 27. Ling, L., and Yuhwa Y. Yang. 1940. A mosaic disease of rape and other cultivated crucifers in China. Phytopath. 30: 338-342.
 28. Lo, C. S. 1942. The occurrence and distribution of sugarcane mosaic in China. (In Chinese). The Kwangsi Agr. News no. 6.
 29. Nakada, T. 1945. A preliminary list of plant diseases in Shansi province. (In Japanese). North China Agr. Jour. (51): 4.

30. Nakata, K. 1941. A report on a disease survey of farm and horticultural crops in North China. (In Japanese). Bull. North China Agr. Expt. Sta. No. 1, 72 pp.
31. Ou, S. H. 1941. Diseases of economic plants in China, II. Sinensia 12: 23-52.
32. Porter, R. H. 1926. A preliminary report of surveys for plant diseases in East China. Plant Dis. Repr. Suppl. 46: 153-166.
33. Reinking, O. A. 1919. Diseases of economic plants in Southern China. Philippine Agriculturist 8: 105-135.
34. _____. 1921. Citrus diseases of the Philippines, southern China, Indo-China and Siam. Philippine Agriculturist 9: 121-179.
35. Shen, C. I., and Y. T. Chow. 1937. A preliminary survey on cotton diseases in China during 1934-1936. (In Chinese with English summary). Bull. Central Cotton Improvement Inst. no. 2, 128 pp.
36. Tai, F. L. 1941. A preliminary list of economic plant diseases of Yunnan. (In Chinese with English summary). Bull. Inst. Agr. Res. Tsing Hua Univ. no. 6, 36 pp.
37. Tai, L. Y. 1944. Diseases of farm and other crops in Kating. (In Chinese). Sci. Rept. Wuhan University 8(2): 1-15.
38. Teng, S. C., and S. H. Ou. 1938. Diseases of economic plants in China. Sinensia 9: 181-217.
39. Tsai, S. L. 1941. A preliminary survey of some important diseases of economic plants in Meitan. (In Chinese). Entomo-phytopathological Knowledge 1: 50-57.
40. Tsui, P. T. 1933. Studies on the physiological characters of *Cuscuta japonica* Choisy. (In Chinese with English summary). Yearbook Bur. Ent. Chekiang, Hangchow, Chekiang 2: 272-286.
41. Tu, C. 1932. Notes on diseases of economic plants in south China. Lingnan Sci. Jour. 11: 489-504.
42. Wang, M. C. 1942. Manual of the plant diseases of Honan province. (In Chinese). 60 pp., Honan University, Honan, China.
43. Wang, T. H. 1945. Diseases of the tea plant in Fukien. (In Chinese with English summary). The Fukien Agr. Jour. 6: 59-68.
44. Wei, C. T. 1934. Rice diseases. (In Chinese with English summary). Bull. Coll. Agr. Univ. Nanking no. (n.s.) 16, 40 pp.
45. _____, and P. C. Cheo. 1944. Diseases of tomato in the vicinity of Chengtu. (In Chinese with English summary). Chinese Jour. Sci. Agr. 1: 288-294.
46. Woo, C. T. 1940. Important diseases of the tea plant in East Chekiang. (In Chinese). The Chekiang Agriculture (22-25): 58-66.
47. Yang, Yuhwa Y., and L. Ling. 1942. Diseases of cotton in Szechuan. (In Chinese with English summary). Bull. Szechuan Agr. Imp. Inst. no. 1, 10 pp.
48. Yangs, S. M., and K. C. Chen. 1941. Notes on diseases of some important crops observed in Ishan, Kwangsi. (In Chinese). Entomo-phytopathological Knowledge 1: 19-24.
49. Yu, Emerson H. 1939. A report on a survey of tobacco diseases in the Chengtu area. (In Chinese). Nung Ling Sing Pao 16: 6-10.
50. Yu, T. F. 1936. A bacterial stem blight of broad bean. Bull. Chinese Bot. Soc. 2: 32-42.
51. _____. 1939. Mild mosaic virus of broad bean. Phytopath. 29: 448-455.
52. _____. 1939. A list of plant viroses observed in China. Phytopath. 29: 459-461.
53. _____. 1940. A list of important crop diseases occurring in Kiangsu province (1934-37). Lingnan Sci. Jour. 19: 67-78.
54. _____. 1944. Enation pea mosaic virus, one of the causal agents of the so-called "broad bean mosaic" in China. Chinese Jour. Expt. Biol. 2: 163-166.
55. _____. 1946. A mosaic disease of cowpea (*Vigna sinensis* Endl.). Ann. Appl. Biol. 33: 450-454.
56. _____. 1947. Spotted wilt of broadbean. Phytopath. 37: 191-192.



