Number 8 Bibliographical Contributions June, 1925.

Author and Subject Index to the Publications on Plant Pathology issued by the U. S. Department of Agriculture up to January 1, 1925

Compiled by
Jessie M. Allen
Librarian, Bureau of Plant Industry

Washington, D. C.

UNITED STATES DEPARTMENT OF AGRICULTURE

LIBRARY

Bibliographical Contributions.

No. 1. A check list of the publications of the Department of Agriculture on the subject of plant pathology, 1837-1913. Prepared in the Bureau of Plant Industry Library. 1919. (Superseded by No.8)

No. 2. Check list of publications of the state agricultural experiment stations on the subject of plant pathology, 1876-1920. Prepared in the Bureau of Plant Industry Library. 1922.

No. 3. Check list of publications issued by the Bureau of Plant Industry, United States Department of Agriculture, 1901-1920 and by the divisions and offices which combined to form this bureau, 1862-1901. Prepared in the Bureau of Plant Industry Library. 1921.

No. 4. Bibliography on the preservation of fruits and vegetables in transit and storage with annotations. Prepared in the Bureau of Markets and Crop Estimates Library. 1922.

No. 5. Index to some sources of current prices. Prepared in the Bureau of Agricultural Economics Library. 1923.

No. 6. Partial list of publications on dairying issued in the United States, 1900 to June, 1923. Prepared in the Bureau of Animal Industry Library. 1923.

No. 7. Bibliography on the marketing of agricultural products. Prepared in the Bureau of Agricultural Economics Library. 1924.

No. 8. Author and subject index to the publications on plant pathology issued by the U. S. Department of Agriculture up to January 1, 1925. Prepared in the Bureau of Plant Industry Library. 1925.

Number 8 Bibliographical Contributions June, 1925

Author and Subject Index to the Publications on Plant Pathology issued by the U. S. Department of Agriculture up to January 1, 1925

Compiled by
Jessie M. Allen
Librarian, Bureau of Plant Industry

Washington, D. C.

CONTENTS

INTRODUCTION

The "Check List of the Publications of the Department of Agriculture on the Subject of Plant Pathology, 1837-1918" (U.S. Department of Agriculture Library, Bibliographical Contributions No. 1), issued in 1919, is now exhausted. Instead of a reprint or new edition, it has been decided to issue this author and subject index covering the publications of the Department of Agriculture on plant pathology up to January 1, 1925, exclusive of the publications on the diseases caused by insects.

The Department of Agriculture Library maintains a complete set of the publications of the Department, and also a card catalogue of these publications as a part of the dictionary catalogue covering its large collection of scientific and technical literature. From the copy prepared for the catalogue entries for the Department and other agricultural publications, catalogue cards are printed and distributed by the Library of Congress. The Department Library catalogue is supplemented by more detailed and specific indexes of their special subjects kept by the bureau libraries. The Bureau of Plant Industry Library maintains, in cooperation with the Office of Economic and Systematic Botany of the Bureau, a comprehensive card index catalogue of botanical literature. This has one author arrangement and two separate subject arrangements, one on general botany and the other on plant pathology. Most of the subject headings used in this index are taken from the plant pathology catalogue. This catalogue was started by Miss Eunice R. Oberly, former librarian of the Bureau, and maintained by her until her death in 1921. Since that date is has been continued in charge of Miss Alice C. Atwood, Botanical Bibliographer, who is also in charge of the botanical catalogue. Miss Atwood has given much assistance in the preparation of this index.

In the author arrangement all anonymous and some ephemeral publications have been omitted. The subject index aims to give a quite complete record of the publications of the Department on plant pathology. Some appraisement has been made for subjects upon which there are many contributions, the brief and less important ones being omitted. For subjects on which there are few publications all have been included.

Some of the more recent publications entered in this index are now available for free distribution. Many of the others may be obtained by purchase from the Superintendent of Documents, Government Printing Office, Washington, D. C., but most of the early series are entirely exhausted.

The Library of the Bureau of Plant Industry is interested in establishing exchange relations with other institutions which issue publications on plant pathology and other subjects pertaining to the work of the Bureau.

Jessie M. Allen.

June 15, 1925. Librarian, Bureau of Plant Industry.

List of Abbreviations Used for Series

Alaska Agr.Exp.Sta.Rep.	Alaska agricultural experiment station. Report.
Bot.Div.Bul.	Botanical Division Bulletin.
Bot.Div.Circ.	Botanical Division Circular.
Bot.Div.(Sect.Veg.Path.)Bul.	Botanical Division (Section of Vegetable
" " " " Circ.	Pathology) Bulletin; Circular.
Bur.Chem.Bul.	Bureau of Chemistry Bulletin.
Bur.Ent.Bul., Circ.	Bureau of Entomology Bulletin; - Circular.
Bur.Forestry Bul.	Bureau of Forestry Bulletin.
Bur.Plant Indus.Bul.	Bureau of Plant Industry Bulletin.
Bur.Plant Indus.Circ.	Bureau of Plant Industry Circular.
Bur.Plant Indus.Agr.Tech.Circ.	Bureau of Plant Industry, Agricultural Technology Circular.
Bur.Plant Indus.Cotton,Truck & For. Crop.Dis.Inves.Circ.	Bureau of Plant Industry, Cotton, Truck & Forage Crop Disease Investigations Circular.
Bur. Plant Indus. [Doc.]	Bureau of Plant Industry. Document.
Bur.Plant Indus. West.Irrig.Agr. Circ.	Bureau of Plant Industry. Western Irrigation Agriculture. Circular.
Comr.Agr.Rep.	Commissioner of Agriculture Report.
Comr.Patents Rep.Agr.	Commissioner of Patents Report. Agriculture.
Dept.Agr.Ann.Rep.	Department of Agriculture Annual Report.
Dept.Agr.Library Bibl.Contrib.	Department of Agriculture Library. Bibliographical Contributions.
Dept.Agr.Month.Rep.	Department of Agriculture Monthly Report.
Dept.Bul.	Department Bulletin.
Dept.Circ.	Department Circular.
Dept.Rep.	Departmental Report.
Div.Ent.Bul.	Division of Entomology Bulletin.
Div.Pomol.Bul.	Division of Pomology Bulletin.
Div.Veg.Path.Bul.	Division of Vegetable Pathology Bulletin.
Div.Veg.Path.Circ.	Division of Vegetable Pathology Circular.
Div.Veg.Physiol. & Path.Bul.	Division of Vegetable Physiology and Pathology Bulletin.
Exp.Sta.Rec.	Experiment Station Record.
Farm.Bul.	Farmers' Bulletin.
Fed.Hort.Bd.Not.Quar.	Federal Horticultural Board. Notice of Quarantine.
Fed.Hort.Bd.S.R.A.	Federal Horticultural Board. Service & Regulatory Announcements.
Forest Serv. Rep.Forestry	Forest Service. Report on Forestry.
" " Unnumbered Publ.	Forest Service. Unnumbered Publication.

Jour. Agr.Res. - - - - - - - - - - - - Journal of Agricultural Research.
The numbers in curves following the references in the Journal are the key numbers for the separates, and the letters show the source of the contributions. The following are the key letters for the bureaus, those for the state agricultural experiment stations are the usual state abbreviations.
B - Office of Cooperative Extension.
E - Bureau of Chemistry.
F - Forest Service.
G - Bureau of Plant Industry.
K - Bureau of Entomology.
O - Federal Horticultural Board.
Mo.Weather Rev. - - - - - - - - - - - - Monthly Weather Review.
Month.Rep. - - - - - - - - - - - - - - Monthly Report.
Off.Exp.Sta.Bul. - - - - - - - - - - - Office of Experiment Stations Bulletin.
Off.Exp.Sta.Farm.Inst.Lecture - - - Office of Experiment Stations Farmers' Institute Lecture.
Off.Record - - - - - - - - - - - - - - Official Record.
Off.Sec.Circ.- - - - - - - - - - - - - Office of Secretary Circular.
Plant Dis.Bul.Suppl. - - - - - - - - - Plant Disease Bulletin Supplement.
" " Reporter Suppl. - - - - - Plant Disease Reporter. Supplement.
Porto Rico Agr.Exp.Sta.Bul.- - - - - Porto Rico Agricultural Experiment Station
Circ., - Rep.- - - - - - - - - - - - Bulletin; - Circular; - Report.
Sec.Agr.Rep. - - - - - - - - - - - - - Secretary of Agriculture Report.
Sect.Veg.Path.Circ. - - - - - - - - - Section of Vegetable Pathology Circular.
States Rel.Serv.Doc. - - - - - - - - - States Relations Service Document.

SERIES COVERED BY INDEX

ANNUAL REPORT. 1837-1923. (Pub. 1838-1924) In progress.
1839-1860 were part of Report of Commissioner of Patents; agricultural report separate volume after 1849. From 1842 to 1870 the references to plant diseases in annual reports consisted of signed articles, translations and abstracts, letters and extracts from agricultural and horticultural society publications and farm journals. After 1870 original observations and experiments were made by various special divisions whose annual reports appeared in the annual report of the department. These divisions and bureaus were as follows:

1871-1876. Division of Microscopy.
1872-1889. Division of Botany. (1886 was report of mycologist; 1887-1889 report of chief of the Section of Vegetable Pathology.)
1890-1900. Division of Vegetable Physiology and Pathology.
1901-1923. Bureau of Plant Industry.
1911-1923. Insecticide and Fungicide Board.
1913-1923. Federal Horticultural Board.

In addition to these, occasional references to plant pathology appeared in the annual reports of miscellaneous offices and divisions as follows:

Bureau of Chemistry. 1877, 1882.
Division of Gardens and Grounds. 1883,1885,1887,1889, 1891-1893.

Since 1894 the annual report has consisted of executive reports only, reports of investigations being made in the Yearbook and the technical series of publications.

DEPARTMENT BULLETIN. No.1-1305. 1913-1924. In progress.
This series, which takes the place of the numbered series of bulletins and circulars of various bureaus which were discontinued in 1913, contains popular and semitechnical results of investigations.

DEPARTMENT CIRCULAR. No.1-333. 1919-1924. In progress.
These circulars take the place of numerous leaflets formerly issued by the various bureaus, and being numbered in a single series avoid the former complexity of numbering.

DEPARTMENTAL REPORT. No. 1-117. 1862-1918.
Miscellaneous material, very little on plant diseases. No.1-58, 1862-1892, were issued without numbers, a list of titles and assigned numbers appearing on cover of No.59.

FARMERS' BULLETIN. No. 1-1445. 1889-1924. In progress.
Brief and popular bulletins on subjects of interest to farmers generally, or to the farmers in some particular locality.

JOURNAL OF AGRICULTURAL RESEARCH. Vol.1-29. Oct.1913-1924. In progress.
A technical periodical, recording results of scientific research bearing directly or indirectly upon economic conditions of agriculture. The articles are contributed by investigators of the Department of Agriculture and of the State Agricultural Experiment Stations. The key numbers in curves following the entry (G-204, Wis.-10, etc.) show the source of the contribution. (See list of abbreviations on p. 4.

LIBRARY. BIBLIOGRAPHICAL CONTRIBUTIONS. No.1-7. 1919-1924. In progress.
Mimeographed lists of literature on special subjects, no.1-2 being check lists of department and experiment station publications on plant pathology.

MONTHLY REPORT. May 1863-Dec.1876.
Early issues contained notes on plant diseases, and the report on Microscopic investigations 1872-1876 appeared first in Monthly report, being reprinted with some changes in Annual report.

OFFICIAL RECORD. Vol.1-3. Jan.4,1922-1924. In progress.
WEEKLY NEWS LETTER. Vol.1-9, no.19. Aug.13,1913-Dec.7,1921.
Contain occasional popular notes on plant diseases, most of which appear in more complete form in other publications of the Department.

YEARBOOK. 1894-1923. (Pub.1895-1924) In progress.
Previous to 1894 the Annual Report contained in addition to administrative reports of the Secretary and chiefs of bureaus and divisions, discussions of the investigations of the Department. Since that date this latter material, designed to interest and instruct the farmers of the country, has appeared in a separate volume, the Yearbook.

DIVISION OF BOTANY. BULLETIN. No.1-29. 1886-1901.
Bulletins no.2,5,7-11 were contributed by the Section of Vegetable Pathology. In 1890 this section was raised to the rank of an independent Division of Vegetable Pathology with its own series of publications. The Division of Botany was merged into the Bureau of Plant Industry July 1, 1901. Contributions of the U.S. National Herbarium, vol. 1-7, which were issued by the Division of Botany, are not included in this index.

BUREAU OF CHEMISTRY. BULLETIN. No.1-166. 1883-1913.
" " " CIRCULAR. No.1-115. 1894-1913.
Division of Chemistry until July 1,1901. These series contained occasional brief references pertaining to plant diseases, chiefly on fungicides.

BUREAU OF ENTOMOLOGY. BULLETIN. No.1-33, n.s. no.1-117. 1883-1913.
" " " CIRCULAR. No.1-173. 1891-1913.
" " " INSECT LIFE. 7 vol. July 1888-July 1895.
Division of Entomology until July 1, 1904. A few of these publications were on plant pathology subjects, chiefly on control of diseases.

OFFICE OF EXPERIMENT STATIONS. BULLETIN. No.1-236. 1889-1913.
The early bulletins, especially those which gave the Proceedings of meetings of the Association of American agricultural colleges and experiment stations, contained brief articles on plant diseases.

EXPERIMENT STATION RECORD. Vol.1-51. 1889/90-1924. In progress.
A technical review of the current literature of agricultural investigation throughout the world. Each number contains abstracts of literature under heading "Plant diseases".

HAWAII AGRICULTURAL EXPERIMENT STATION.
ANNUAL REPORT. 1901-1923. (Pub.1902-1924) In progress.
BULLETIN. No.1-54. 1901-1924. In progress.
PRESS BULLETIN. No.1-54. 1903-1919.

PORTO RICO AGRICULTURAL EXPERIMENT STATION.
REPORT. 1900/01-1923. (Pub.1901-1924) In progress.
BULLETIN. No.1-30. 1902-1924.
CIRCULAR. No.1-20. 1903-1921.
The Hawaii, Porto Rico, and other insular experiment stations under supervision of the Office of Experiment Stations, have carried on important investigations in plant pathology, the results being reported in their publications.

Farmers' Institute Lectures and Documents are popular series of the Office of Experiment Stations, with occasional numbers on plant diseases.

FEDERAL HORTICULTURAL BOARD.
NOTICE OF QUARANTINE. No. 1-57. 1912-1924. In progress.
PLANT QUARANTINE DECISION. No.1-12. 1913-1916.
SERVICE AND REGULATORY ANNOUNCEMENTS. No.1-81. 1914-1924. In progress.
Beginning in 1914 the decisions, notices of quarantine, regulations, etc., issued in separate form, were reprinted each month in the Service and Regulatory Announcements.

FOREST SERVICE. BULLETIN. No.1-127. 1887-1913.
" " REPORT ON FORESTRY. 4 vol. 1878-1884.
" " UNNUMBERED PUBLICATIONS. 1907-1914.
Occasional material on plant diseases, chiefly in the unnumbered publications.

BUREAU OF PLANT INDUSTRY. BULLETIN. No.1-285. 1901-1913.
" " " " CIRCULAR. No.1-132. 1908-1913.
This bureau was organized July 1, 1901, by the consolidation of various divisions of the department, of which the Division of Vegetable Physiology and Pathology was one. The publications on plant pathology appeared thereafter in the bureau series of bulletins and circulars until July 1,1913, when these bureau series were discontinued. A number of popular circulars or documents were issued from 1902 until 1918, some unnumbered and others in numbered series under the office issuing them, such as Agricultural Technology Circular, Cotton, Truck and Forage Crop Investigations Circular, etc.

PLANT DISEASE REPORTER. Vol.1-8. 1917-1924. In progress.
" " " SUPPLEMENT. No.1-36. 1919-1924. In progress.
Mimeographed summaries of important data on plant diseases collected in the United States, covering such topics as prevalence; geographical distribution, severity, etc. Vol.1-6 had title: Plant Disease Survey Bulletin.

DIVISION OF POMOLOGY. BULLETIN. No.1-10. 1891-1901.
Only occasional notes on plant diseases. The division was merged into Bureau of Plant Industry July 1, 1901.

OFFICE OF SECRETARY. CIRCULAR. No.1-183 (162-182 never pub.) 1896-1923.
Mostly pronouncements of an administrative nature, a few on regulation of plant diseases.

DIVISION OF VEGETABLE PHYSIOLOGY AND PATHOLOGY.
BULLETIN. No.1-29. 1891-1901.
CIRCULAR. No.1-18. 1886-1901.
July 1,1890 the Section of Vegetable Pathology of the Division of Botany was raised to the rank of an independent Division of Vegetable Pathology, with its own series of publications. The name was changed in 1895 to Division of Vegetable Physiology and Pathology. July 1,1901 the division was incorporated into the Bureau of Plant Industry. The bulletins of the Section of Vegetable Pathology were issued in the Division of Botany series of bulletins. The circulars of the section were no.1-9 of the Division of Vegetable Physiology and Pathology. The Journal of Mycology, vol.5-7, 1889-1894, issued by this section and division, is not included in this index. These volumes were only part of the periodical series, the earlier and later volumes being published outside the department.

WEATHER BUREAU. MONTHLY WEATHER REVIEW. Vol.1-52. 1872-1924. In progress.
Contains occasional articles on weather injuries.

AUTHOR INDEX

Artschwager, E.F. On the anatomy of the sweet potato root, with notes on internal breakdown. Jour. Agr. Res. 27: 157-166. 1924. (G-357)

---------- Pathological anatomy of potato blackleg. Jour. Agr. Res. 20: 325-330. 1920. (G-210)

Atanasoff, D. Corn-rootrot and wheat scab. (Preliminary paper) See Hoffer, G.N.

---------- Fusarium-blight (scab) of wheat and other cereals. Jour. Agr. Res. 20: 1-32. 1920. (Wis.-18)

---------- and Johnson, A.G. Treatment of cereal seeds by dry heat. Jour. Agr. Res. 18: 379-390. 1920. (Wis.-17)

Atkinson, G.F. Diseases of cotton. (In The cotton plant: its history, botany, chemistry, culture, enemies, and uses.) Off. Ex. Sta. Bul. 33: 279-316. 1896.

---------- A new root rot disease of cotton. (Heterodera radicicola). Insect Life 3: 262-264. 1891.

Ayres, T. W. The control of peach brown-rot and scab. See Scott, W.M.

Bacon, C.W. Sand drown, a chlorosis of tobacco due to magnesium deficiency, and the relation of sulphates and chlorids of potassium to the disease. See Garner, W.W.

Bailey, A.A. Botrytis rot of the globe artichoke. See Link, G.K.K.

Bailey, D.L. Biologic forms of Puccinia graminis on varieties of Avena spp. See Stakman, E.C.

Ballard, W.S., and Volck, W.H. Apple powdery mildew and its control in the Pajaro Valley. Dept. Bul. 120, 26 p. 1914.

---------- and others. Internal browning of the yellow Newtown apple. Dept. Bul. 1104, 24 p. 1922.

---------- and Volck, W.H. Winter spraying with solutions of nitrate of soda. Jour. Agr. Res. 1: 437-444. 1914. (G-14)

Barret, J. On the cultivation of the gooseberry to secure it from the scab. (From the Cleveland Herald) Comr. Patents Rep. 1847: 472-474. 1848.

Bartholomew, L.K., and Jones, E.S. Relation of certain soil factors to the infection of oats by loose smut. Jour. Agr. Res. 24: 569-575. 1923. (G-301)

Bartram, H.E. Effect of natural low temperature on certain fungi and bacteria. Jour. Agr. Res. 5:651-655. 1916. (Vt.-1)

Beckwith, A.M. The life history of the grape rootrot fungus Roesleria hypogaea Thum. et Pass. Jour. Agr. Res. 27: 609-616. 1924. (G-355)

Beinhart, E.G. Steam sterilization of seed beds for tobacco and other crops. Farm. Bul. 996, 15 p. 1918.

Bergman, H.F. The relation of water-raking to the keeping quality of cranberries. See Stevens, N.E.

Bessey, E.A., and Byars, L.P. The control of root-knot. Farm. Bul. 648, 19 p. 1915.

---------- Root-knot and its control. Bur. Plant Indus. Bul. 217, 89 p. 1911.

Bethel, E. Piñon blister-rust. See Hedgcock, G. G.

Biggar, H.H. Early vigor of maize plants and yield of grain as influenced by the corn root, stalk, and ear rot diseases. See Holbert, J.R.

Bioletti, F.T., and Bonnet, L. Little-leaf of the vine. Jour. Agr. Res. 8: 381-398. 1917. (Calif.-9)
Bird, H.S. The handling and storage of apples in the Pacific Northwest. See Ramsey, H.J.
Black, O.F. Physiological studies of normal and blighted spinach. See True, R.H.
Bonnet, L. Little-leaf of the vine. See Bioletti, F.T.
Bowman, J.J. Bordeaux-oil emulsion. See Winston, J.R.
---------- Commercial control of citrus melanose. See Winston, J.R.
---------- Commercial control of citrus stem-end rot. See Winston, J.R.
---------- Preliminary results with the borax treatment of citrus fruits for the prevention of blue mold rot. See Fulton, H.R.
Boyce, J.S. Decays and discolorations in airplane woods. Dept. Bul. 1128, 52 p. 1923.
---------- The dry-rot of incense cedar. Dept. Bul.871,58 p. 1920.
---------- A study of decay in Douglas fir in the Pacific Northwest. Dept. Bul. 1163, 20 p. 1923.
---------- White-pine blister rust in the western United States. See Posey, G.B.
Brandes, E.W. Anthracnose of lettuce caused by Marssonina panattoniana. Jour. Agr.Res. 13: 261-280. 1918. (B-14)
---------- Artificial and insect transmission of sugar-cane mosaic. Jour. Agr.Res. 19: 131-138. 1920. (G-190)
---------- Banana wilt (Panama disease). Porto Rico Agr. Exp. Sta. Rep. 1916: 29-31. 1916.
---------- and Klaphaak, P.J. Cultivated and wild hosts of sugar-cane or grass mosaic. Jour. Agr. Res. 24: 247-262. 1923. (G-297)
---------- Mechanics of inoculation with sugar-cane mosaic by insect vectors. Jour. Agr. Res. 23: 279-283. 1923. (G-272)
---------- Mosaic disease of corn. Jour. Agr. Res. 19: 517-522. 1920. (G-203)
---------- The mosaic disease of sugar cane and other grasses. Dept.Bul. 829, 26 p. 1919.
Brann, J.W. Ginseng diseases and their control. See Whetzel, H.H.
Braun, H. Presoak method of seed treatment: a means of preventing seed injury due to chemical disinfectants and of increasing germicidal efficiency. Jour. Agr. Res. 19: 363-392. 1920. (G-198)
Bray, W.L. The mistletoe pest in the Southwest. Bur. Plant Indus. Bul. 166, 39 p. 1910.
Brentzel, W.E. Investigations of heat canker of flax. See Reddy, C.S.
Brewbaker, H.E. Brittle straw and other abnormalities in rye. See Davison, F.R.
Briggs, F.N. Relative resistance of wheat to bunt in the Pacific Coast states. See Tisdale, W.H.
Briggs, L.J. The field treatment of tobacco root-rot. Bur. Plant Indus. Circ. 7, 8 p. 1908.
---------- and others. Mottle-leaf of citrus trees in relation to soil conditions. Jour. Agr. Res. 6: 721-740. 1916. (G-90)
---------- and others. The mulched-basin system of irrigated citrus culture and its bearing on the control of mottle-leaf. Dept. Bul. 499, 31 p. 1917.

Brooks, C., and others. Apple scald. Jour. Agr. Res, 16: 195-217. 1919. (G-173)
---------- and others. Apple scald and its control. Farm. Bul. 1380, 17 p. 1923.
---------- and Fisher, D.F. Brown-rot of prunes and cherries in the Pacific Northwest. Dept. Bul. 368, 10 p. 1916.
---------- Control of brown-rot of prunes and cherries in the Pacific Northwest. See Fisher, D. F.
---------- and others. Diseases of apples in storage. Farm. Bul.1160, 24 p. 1920. Rev.1922.
---------- and Cooley, J.S. Effect of temperature aeration and humidity on Jonathan-spot and scald of apples in storage. Jour. Agr. Res. 11: 287-317. 1917. (G-126)
---------- and Fisher, D.F. Irrigation experiments on apple-spot diseases. Jour. Agr. Res. 12: 109-138. 1918. (G-133)
---------- and others. Nature and control of apple-scald. Jour. Agr. Res. 18: 211-240. 1919. (G-179)
---------- and Cooley, J.S. Oiled paper and other oiled materials in the control of scald on barrel apples. Jour. Agr. Res. 29(1924): 129-135. 1925. (G-412)
---------- and others. Oiled wrappers, oils and waxes in the control of apple scald. Jour. Agr. Res. 26(1923): 513-536. 1924. (G-344)
---------- and Fisher, D.F. Prune and cherry brown-rot investigations in the Pacific Northwest. Dept. Bul. 1252, 22 p. 1924.
---------- and Cooley, J.S. Temperature relations of apple-rot fungi. Jour. Agr. Res. 8: 139-164. 1917. (G-103)
---------- and Cooley, J. S. Temperature relations of stone fruit fungi. Jour. Agr. Res. 22: 451-465. 1921. (G-256)
---------- and Fisher, D.F. Transportation rots of stone fruits as influenced by orchard spraying. Jour.Agr.Res.22: 467-477. 1921. (G-257)
Brown, H.B. Life history and poisonous properties of Claviceps paspali. Jour. Agr. Res. 7: 401-406. 1916. (Miss.-1)
Brown, N.A. An apple stem-tumor not crowngall. Jour. Agr. Res. 27: 695-698. 1924. (G-378)
---------- A bacterial disease of lettuce [Bacterium viridilivirum n. sp.]. (A preliminary report) Jour. Agr. Res. 4: 475-478. 1915. (G-54)
---------- Bacterial leafspot of geranium [Bacterium pelargoni, n. sp.] in the eastern United States. Jour. Agr. Res. 23: 361-372. 1923. (G-276)
---------- and Jamieson, C.O. A bacterium causing a disease of sugar-beet and nasturtium leaves. Jour. Agr. Res. 1: 189-210. 1913. (G-5)
---------- Crown-gall of plants: its cause and remedy. See Smith,E.F.
---------- Some bacterial diseases of lettuce. Jour. Agr. Res. 13: 367-388. 1918. (G-144)
---------- The structure and development of crown gall: a plant cancer. See Smith, E.F.
Browne, D.J. The grape disease in Europe. See Pike, N.
------- Potatoes. Proposed remedy against disease. (Abstract of Protz, W. Erforschung der wahren ursuche des krankhaften zustandes der kartoffelpflanze.) Comr. Patents Rep. Agr. 1856: 248-250. 1857.

Browne, D.J. Wheat. Diseases. [Drawn principally from Baxter's Library of practical agriculture.] Comr. Patents Rep. Agr. 1854: 136-138. 1855.

Bryan, M.K. Angular leaf-spot of cucumbers [Bacterium lachrymans, sp. nov.] See Smith, E.F.

---------- A bacterial budrot of cannas [Bacterium cannae, n.sp.]. Jour. Agr. Res. 21(3): 143-152. 1921. (G-225)

---------- Bacterial leafspot of Delphinium. Jour. Agr. Res. 28: 261-270. 1924. (G-370)

---------- A nasturtium wilt caused by Bacterium solanacearum. Jour. Agr. Res. 4: 451-458. 1915. (G-53)

Bunzel. H.H. A biochemical study of the curly-top of sugar beets. Bur. Plant Indus. Bul.277, 28 p. 1913.

---------- Oxidases in healthy and in curly-dwarf potatoes. Jour.Agr. Res. 2: 373-404. 1914. (G-30)

Burger, O.F. Variations in Colletotrichum gloeosporioides. Jour. Agr. Res. 20: 723-736. 1921. (Calif.-28)

Burke, E. Injury to foliage by arsenical spray mixtures. See Swingle, D.B.

Burlison, W.L. Early vigor of maize plants and yield of grain as influenced by the corn root, stalk, and ear rot diseases. See Holbert, J.R.

Busck, A. Report of an investigation of diseased cocoanut palms in Cuba. (In Some miscellaneous results of the work of the Division of entomology. VI.) Div. Ent. Bul. n.s. 38: 20-23. 1902.

Byars, L.P. The control of root-knot. See Bessey, E.A.

---------- The eelworm disease of wheat and its control. Farm.Bul.1041, 11 p. 1919. Rev. 1920.

---------- The nematode disease of wheat caused by Tylenchus tritici. Dept. Bul.842, 40 p. 1920.

---------- A serious eelworm or nematode disease of wheat. Off. Sec. Circ.114, 7 p. 1918.

---------- and Gilbert, W.W. Soil disinfection with hot water to control the root-knot nematode and parasitic soil fungi. Dept. Bul.818, 14 p. 1920.

Caldwell, J.S. Some effects of the blackrot fungus, Sphaeropsis malorum, upon chemical composition of the apple. See Culpepper, C.W.

Carleton, M.A. Cereal rusts of the United States: a physiological investigation. Div. Veg. Physiol.& Path. Bul.16, 74 p. 1899.

---------- Investigations of rusts. Bur. Plant Indus. Bul.63, 32 p. 1904.

---------- Lessons from the grain-rust epidemic of 1904. Farm. Bul. 219, 24 p. 1905.

Carpenter, C.W. Banana freckle or black spot disease [Phoma musae, n.sp.]. (In his Report of the Division of plant pathology, 1918.) Hawaii Agr. Exp. Sta. Rep. 1918: 38-40. 1919.

Carpenter, C.W. Potato diseases in Hawaii and their control. Hawaii Agr. Exp. Sta. Bul.45, 42 p. 1920.

---------- Preliminary report on root rot in Hawaii. (Lahaina cane deterioration, pineapple wilt, taro rot, rice root rot, banana root rot.) Hawaii Agr. Exp. Sta. Press Bul.54, 8 p. 1919.

---------- Some potato tuber-rots caused by species of Fusarium. Jour. Agr. Res. 5: 183-210. 1915 (G-62)

---------- Wilt diseases of okra and the Verticillium-wilt problem. Jour. Agr. Res. 12: 529-546. 1918. (G-137)

Carr, R.H. Accumulation of aluminum and iron compounds in corn plants and its probable relation to rootrots. See Hoffer, G.N.

Carrero, J.O. Cause of lime-induced chlorosis and availability of iron in the soil. See Gile, P.L.

---------- Influence of some nitrogenous fertilizers on the development of chlorosis in rice. See Willis, L.G.

Carsner, E. Angular-leafspot of cucumber; dissemination, overwintering, and control. Jour. Agr. Res. 15: 201-220. 1918. (G-160)

---------- Obtaining beet leafhoppers nonvirulent as to curly-top. See Stahl, C.F.

---------- and Stahl, C.F. Studies on curly-top disease of the sugar beet. Jour. Agr. Res. 28: 297-320. 1924. (G-384)

Cash, E.K. A list of fungi (Ustilaginales and Uredinales) prepared for exchange. See Patterson, F.W.

Cash, L.C. Stewart's disease of corn. See Rand, F.V.

Cate, C.C. Damaging temperatures and orchard heating in the Rogue River Valley, Oreg. See Young, F.D.

Cerletti, M.G.B. The Peronospora overcome by hydrate of lime...Lime as a remedy for Peronospora. [Translated from] Messager agricole, Oct. 10, 1885. (In Scribner, F.L. Report on the fungus diseases of the grape vine) Bot. Div.(Sect.Veg.Path.) Bul.2: 71-76. 1886.

Charles, V.K., and Jenkins, A.E. A fungous disease of hemp. Jour. Agr. Res. 3: 81-84. 1914. (G-33)

---------- Some fungous diseases of economic importance. II. Pineapple rot caused by Thielaviopsis paradoxa. See Patterson, F.W.

Chauzit, B. Treatments for mildew in France in 1887. [Translated from] Progres agricole et viticole Nov.6,1887. (In Scribner, F.L. Report on experiments made in 1887 in treatment of downy mildew and black-rot of the grape-vine). Bot. Div.(Sect.Veg.Path.) Bul.5: 75-85. 1888.

Chittenden, F.H. Control of diseases and insect enemies of the home vegetable garden. See Orton, W.A.

---------- and Orton, W.A. Increasing the potato crop by spraying. Farm. Bul.1349, 22 p. 1923.

Christopher, W.N. Spores in the upper air. See Stakman, E.C.

Clark, J.A. Segregation and correlated inheritance in crosses between Kota and Hard Federation wheats for rust and drought resistance. Jour. Agr. Res. 29(1924): 1-47. 1925. (G-399)

Cobb. N.A. Citrus-root nematode. Jour. Agr. Res. 2: 217-230. 1914. (G-23)

Cobb, N.A. Estimating the nema population of soil, with special reference to the sugar-beet and root-gall nemas, Heterodera Schachtii Schmidt and Heterodera radicicola (Greef) Müller, and with a description of Tylencholaimus aequalis n.sp. Bur. Plant Indus., Agr. Tech. Circ.1, 48 p. 1918.

-------- A new parasitic nema, [Tylenchus penetrans, n.sp.], found infesting cotton and potatoes. Jour. Agr. Res.11:27-33. 1917. (G-121)

-------- Tylenchus similis, the cause of a root disease of sugar cane and banana. Jour. Agr. Res. 4: 561-568. 1915. (G-55)

Coerper, F.M. Bacterial blight of soybean [Bacterium glycineum n.sp.]. Jour. Agr. Res. 18: 179-194. 1919. (Wis.-16)

Coleman, D.A., and Regan, S.A. Nematode galls as a factor in the marketing and milling of wheat. Dept. Bul.734, 16 p. 1918.

Colley, R.H. Diagnosing white-pine blister-rust from its mycelium. Jour. Agr. Res. 11: 281-286. 1917. (G-125)

--------- Discovery of internal telia produced by a species of Cronartium. Jour.Agr.Res. 8: 329-332. 1917. (G-107)

--------- Parasitism, morphology and cytology of Cronartium ribicola. Jour. Agr. Res. 15: 519-660. 1918. (G-169)

Collins, J.F. The control of the chestnut bark disease. See Metcalf. H.

---------- Practical tree surgery. Yearbook 1913: 163-190. 1914.

---------- The present status of the chestnut bark disease. See Metcalf, H.

---------- Tree surgery. Farm. Bul.1178, 32 p. 1920. Rev. 1921 and 1922.

Comes, O., and Deperais, C. First result obtained from the use of the chloride of aluminum and proposal of new remedies against the peronospora of the vine. [Abstract of Primo résultato attenuto dell' uso del cloruro di alluminio...1889] (In Galloway, B.T. Report on experiments made in 1889 in treatment of fungous diseases of plants.) Bot. Div. (Sect. Veg. Path.) Bul.11: 94-96. 1890.

Cook, F.C. Absorption of copper from the soil by potato plants. Jour. Agr. Res. 22: 281-287. 1921. (E-17)

--------- The influence of copper sprays on the yield and composition of Irish potato tubers. Dept. Bul.1146, 27 p. 1923.

--------- Pickering Sprays. Dept. Bul.866, 47 p. 1920.

Cook, O.F. Acromania, or "crazy-top," a growth disorder of cotton. Jour. Agr. Res. 28: 803-828. 1924. (G-432)

--------- Leaf-cut or tomosis, a disorder of cotton seedlings. (Miscellaneous papers IV) Bur. Plant Indus. Circ.120: 29-34. 1913.

Cooley, J.S. Apple-scald. See Brooks, C.

---------- Apple scald and its control. See Brooks, C.

---------- Diseases of apples in storage. See Brooks, C.

---------- Effect of temperature aeration and humidity on Jonathan-spot and scald of apples in storage. See Brooks, C.

---------- Nature and control of apple-scald. See Brooks, C.

---------- Oiled paper and other oiled materials in the control of scald on barrel apples. See Brooks, C.

---------- Oiled wrappers, oils and waxes in the control of apple scald. See Brooks, C.

---------- Temperature relations of apple-rot fungi. See Brooks, C.

---------- Temperature relations of stone fruit fungi. See Brooks, C.

Coons, G.H. Factors involved in the growth and the pycnidium formation of Plenodomus fuscomaculans. Jour.Agr.Res.5:713-769. 1916. (Mich.-2)
Cromwell, R.O. Fusarium-blight, or wilt disease, of the soybean. Jour. Agr. Res. 8: 421-440. 1917. (N.C.-4)
---------- Xylaria rootrot of apple. See Wolf, F.A.
Culpepper, C.W., and others. Some effects of the blackrot fungus, Sphaeropsis malorum, upon the chemical composition of the apple. Jour. Agr. Res. 7: 17-40. 1916. (Ala.-3)
Cummins, A.B. Composition of normal and mottled citrus leaves. See Kelley, W.P.
Curran, G.C. Spores in the upper air. See Stakman, E.C.
Curtiss, G.C. Treatment of bitter-rot of the apple. (In Galloway, B.T. Report on experiments made in 1889 in treatment of fungous diseases of plants). Bot. Div. (Sect.Veg.Path.) Bul.11:38-41. 1890.
Dana, S.T. Extent and importance of the white pine blight. 4 p. 1908. (Forest Serv.)
Darrow, G.M., and Detwiler, S.B. Currants and gooseberries: their culture and relation to white-pine blister rust. Farm.Bul.1398, 38 p. 1924.
Davis, R.L. Frost resistance in flax. Dept. Circ.264, 8 p. 1923.
Davison, F.R., and others. Brittle straw and other abnormalities in rye. Jour. Agr. Res. 28: 169-172. 1924. (Minn.-50)
Demaree, J.B. Diseases of southern pecans. See McMurran, S.M.
---------- Kernel-spot of the pecan and its cause. Dept.Bul.1102, 15 p. 1922.
---------- Pecan scab with special reference to sources of the early spring infections. Jour. Agr. Res. 28:321-330. 1924. (G-391)
Deperais, C. First result obtained from the use of the chloride of aluminum and proposal of new remedies against the peronospora of the vine. See Comes, O.
Detwiler, S.B. Currants and gooseberries: their culture and relation to white-pine blister rust. See Darrow, G.M.
---------- White-pine blister rust. (In Darrow,G.M. Currants and gooseberries) Farm. Bul.1024: 22-25. 1919. Rev. 1922.
Dewey, L.H. Dodders infesting clover and alfalfa. Bot. Div. Circ. 14, 7 p. 1898.
Dickson, J.G. Influence of soil temperature and moisture on the development of the seedling-blight of wheat and corn caused by Gibberella saubinetii. Jour. Agr. Res. 23: 837-870. 1923. (G-288)
---------- and Johann, H. Production of conidia in Gibberella saubinetii. Jour. Agr. Res. 19: 235-237. 1920. (G-194)
---------- Wheat scab and corn rootrot caused by Gibberella saubinetii in relation to crop successions. See Koehler, B.
---------- Wheat scab and its control. See Johnson, A.G.
Diehl, H.C., and Wright, R.C. Freezing injury of apples. Jour. Agr. Res. 29(1924): 99-127. 1925. (G-383)
---------- Physiological studies on apples in storage. See Magness, J.R.
Diehl, W.W. A list of fungi (Ustilaginales and Uredinales) prepared for exchange. See Patterson, F.W.
Dietz, H.F. Fumigation of cattleya orchids with hydrocyanic-acid gas. See Sasscer, E.R.

Dietz, S.M. The role of the genus Rhamnus in the dissemination of crown rust. Dept. Bul. 1162, 19 p. 1923.
Dodge, B.O. Aecidiospore discharge as related to the character of the spore wall. Jour. Agr. Res. 27:749-756. 1924. (G-377)
---------- Effect of the orange-rusts of Rubus on the development and distribution of stomata. Jour. Agr. Res. 25:495-500. 1923. (G-330)
---------- Expulsion of aecidiospores by the mayapple rust, Puccinia podophylli Schw. Jour. Agr. Res. 28:923-926. 1924. (G-368)
---------- Morphology and host relations of Pucciniastrum americanum. Jour. Agr. Res. 24: 885-894. 1923. (G-311)
---------- A new type of orange-rust on blackberry. Jour.Agr.Res. 25: 491-494. 1923. (G-329)
---------- Origin of the central and ostiolar cavities in pycnidia of certain fungous parasites of fruits. Jour. Agr. Res. 23: 743-760. 1923. (G-284)
---------- and Stevens,N.E. The Rhizoctonia brown rot and other fruit rots of strawberries. Jour. Agr. Res. 28:643-648. 1924. (G-382)
---------- Systemic infections of Rubus with the orange-rusts. Jour. Agr. Res. 25: 209-242. 1923. (G-322)
---------- Uninucleated aecidiospores in Caeoma nitens, and associated phenomena. Jour. Agr. Res. 28: 1045-1058. 1924. (G-450)
Doolittle, S.P. Control of cucumber mosaic in the greenhouse. Dept. Circ. 321, 6 p. 1924.
---------- The mosaic disease of cucurbits. Dept. Bul. 879, 69 p. 1920.
Dorsett, P.H. Spot disease of the violet (Alternaria violae n.sp.). Div. Veg. Physiol. & Path. Bul. 23, 16 p. 1900.
Drechsler, C. Crownwart of alfalfa caused by Urophlyctis alfalfae. See Jones, F.R.
---------- Some graminicolous species of Helminthosporium: I. Jour. Agr. Res. 24: 641-740. 1923. (G-306)
Dunegan, J.C. The fungus causing the common brown rot of fruits in America. See Roberts, J.W.
Dungan, G.H. Early vigor of maize plants and yield of grain as influenced by the corn root, stalk, and ear rot diseases. See Holbert, J.R.
---------- Flag smut of wheat. See Tisdale, W.H.
---------- Varietal resistance in winter wheat to the rosette disease. See Webb. R.W.
Earle, F.S. [Report on experiments with fungicides]. (In Galloway, B.T. Report on experiments made in 1889 in treatment of fungous diseases of plants) Bot. Div. (Sect.Veg.Path.) Bul.11:83-88. 1890.
---------- Report on observations in Porto Rico. Notes on diseases and insects. Porto Rico Agr. Exp. Sta. Ann. Rep. 1903: 456-468.
Eckerson, S.H. The intracellular bodies associated with the rosette disease and a mosaiclike leaf mottling of wheat. See McKinney, H.H.
Edgerton, C.W., and Taggart, W.G. Tolerance and resistance to the sugar cane mosaic. Jour. Agr. Res. 29(1924): 501-506. 1925. (La.-4)
Edlefsen, N.E. Freezing of fruit buds. See West, F.L.
Edson, H.A. Acid production by Rhizopus tritici in decaying sweet potatoes. Jour. Agr. Res. 25: 9-12. 1923. (G-317)

Edson, H.A. Blackleg potato tuber-rot under irrigation. See Shapovalov, M.
---------- Histological relations of sugar-beet seedlings and Phoma betae. Jour. Agr. Res. 5: 55-58. 1915. (G-56)
---------- and Shapovalov, M. Parasitism of Sclerotium Rolfsii on Irish potatoes. Jour. Agr. Res. 23: 41-46. 1923. (G-261)
---------- and Shapovalov, M. Potato-stem lesions. Jour. Agr. Res. 14: 213-220. 1918. (G-149)
---------- Rheosporangium aphanidermatus, a new genus and species of fungus parasitic on sugar beets and radishes. Jour.Agr.Res.4: 279-292. 1915. (G-50)
---------- Seedling diseases of sugar beets and their relation to root-rot and crown-rot. Jour. Agr. Res. 4: 135-168. 1915. (G-46)
---------- and Shapovalov, M. Temperature relations of certain potato-rot and wilt-producing fungi. Jour. Agr. Res. 18:511-524. 1920. (G-183)
---------- Vascular discoloration of Irish potato tubers. Jour.Agr.Res. 20: 277-294. 1920. (G-208)
Elliott, C. A bacterial stripe disease of proso millet [Bacterium panici, n.sp.]. Jour.Agr.Res. 26:151-160. 1923. (G-332)
---------- Halo-blight of oats [Bacterium coronafaciens n.sp.]. Jour. Agr. Res. 19: 139-172. 1920. (G-191)
---------- Sterility of oats. Dept. Bul.1058, 8 p. 1922.
Elliott, J.A. Cotton-wilt, a seed-borne disease. Jour. Agr. Res. 23: 387-395. 1923. (Ark.-2)
---------- Pathogenicity of Cphiobolus cariceti in its relationship to weakened plants. See Rosen, H.R.
Enlows, E.M.A. Bacterial wilt of cucurbits. See Rand, F.V.
---------- A leafblight of Kalmia latifolia [Phomopsis kalmiae n.sp.]. Jour. Agr. Res. 13: 199-212. 1918. (G-141)
---------- Transmission of and control of bacterial wilt of cucurbits. See Rand, F.V.
Erni, H. The grape disease in Europe: its origin, history, phenomena and cure. Comr. Patents Rep. Agr. 1865: 334-338. 1866.
Eustace, H.J. The decay of oranges while in transit from California. See Powell, G.H.
---------- Syllabus of illustrated lecture on potato diseases and their treatment. See Stewart, F.C.
Evans, L.H. Commercial Bordeaux mixtures. See Wallace, E.
Evans, W.E. Copper sulphate and germination. Treatment of seed with copper sulphate to prevent the attacks of fungi. Div. Veg. Physiol. & Path. Bul.10, 24 p. 1896.
Fairchild, D.G. Bordeaux mixture as a fungicide. Div. Veg. Path. Bul.6, 55 p. 1894.
---------- Miscellaneous work in New York state. (In Galloway, B.T. Report on experiments made in 1891 in the treatment of plant diseases.) Div. Veg. Path. Bul. 3: 57-60, 62-63. 1892.
Faulwetter, R.C. Dissemination of the angular leafspot of cotton. Jour. Agr. Res. 8: 457-475. 1917. (S.C.-1)
---------- Wind-blown rain, a factor in disease dissemination. Jour. Agr. Res. 10: 639-648. 1917 (S.C.-2)

Fawcett, G.L. Fungus diseases of coffee in Porto Rico. Porto Rico Agr. Exp. Sta. Bul.17, 29 p. 1915. (Spanish edition. Enfermedades del cafe causadas por hongos en Puerto Rico. 1916.)

---------- Pellicularia koleroga on coffee in Porto Rico. Jour. Agr. Res. 2: 231-233. 1914. (B-2)

---------- A Porto Rican disease of bananas. Porto Rico Agr. Exp. Sta. Rep. 1915: 36-41. 1916.

Fawcett, H.S. Gummosis of citrus. Jour. Agr. Res. 24: 191-236. 1923. (Calif.-33)

---------- Some relations of temperature to growth and infection in the citrus scab fungus Cladosporium citri. Jour. Agr. Res. 21: 243-253. 1921. (Calif.-30)

Ferrouillat, P. Apparatus for combating the mildew and other fungus diseases of plants. (In Scribner, F.L. Report on experiments made in 1887 in treatment of downy mildew and black-rot of the grape vine.) Bot. Div. (Sect.Veg.Path.) Bul.5: 87-110. 1888.

Field, E.C. A dry rot of sweet potatoes caused by Diaporthe batatatis. See Harter, L.L.

---------- Fungus diseases liable to be disseminated in shipments of sugar cane. (Miscellaneous papers.[I]) Bur. Plant Indus. Circ.126: 3-13. 1913.

---------- Two dangerous imported plant diseases. See Spaulding, P.

---------- Wart disease of the potato; a dangerous European disease liable to be introduced into the United States. See Orton, W.A.

Fisher, D.F. Apple powdery mildew and its control in the arid regions of the Pacific Northwest. Dept. Bul. 712, 28 p. 1918.

---------- Apple-scald. See Brooks, C.

---------- Apple scald and its control. See Brooks, C.

---------- Brown-rot of prunes and cherries in the Pacific Northwest. See Brooks, C.

---------- Control of apple powdery mildew. Farm. Bul. 1120, 14 p. 1920.

---------- and Brooks, C. Control of brown-rot of prunes and cherries in the Pacific Northwest. Farm. Bul. 1410, 12 p. 1924.

---------- and Newcomer, E.J. Controlling important fungous and insect enemies of the pear in the humid sections of the Pacific Northwest. Farm. Bul. 1056, 34 p. 1919.

---------- Diseases of apples in storage. See Brooks, C.

---------- Irrigation experiments on apple-spot diseases. See Brooks, C.

---------- Nature and control of apple-scald. See Brooks, C.

---------- Oiled wrappers, oils and waxes in the control of apple scald. See Brooks, C.

---------- Prune and cherry brown-rot investigations in the Pacific Northwest. See Brooks, C.

---------- Transportation rots of stone fruits as influenced by orchard spraying. See Brooks, C.

Fleming, R.M. The toxicity to fungi of various oils and salts, particularly those used in wood preservation. See Humphrey, C.J.

Foëx, G. Practical treatments for the prevention of mildew. [Translated from] Le vigne américaine et viticole en Europe, June 1886. (In Scribner, F.L. Report on the fungus diseases of the grape vine.) Bot. Div. (Sect.Veg.Path.) Bul.2: 113-115. 1886.

Folsom, D. Investigations on the mosaic disease of the Irish potato. (Preliminary paper) See Schultz, E.S.

--------- Leafroll, net-necrosis, and spindling-sprout of the Irish potato. See Schultz, E.S.

--------- Transmission of the mosaic disease of Irish potatoes. See Schultz, E.S.

--------- Transmission, variation, and control of certain degeneration diseases of Irish potatoes. See Schultz, E.S.

Ford, E.R. Survey of blister rust infection on pines at Kittery Point, Maine, and the effect of Ribes eradication in controlling the disease. See Posey, G.B.

Foster, A.C. Some effects of the blackrot fungus, Sphaeropsis malorum, upon the chemical composition of the apple. See Culpepper, C.W.

---------- Tobacco wildfire. See Wolf, F.A.

Fraas, K.N. Summary of opinions on the potato disease. Translated from the Centralblatt des Landwirthschaftlichen vereins in Bayern of April, 1848, by E. G. Smith. Comr. Patents Rep. 1848: 563-569. 1848.

Frechou. Treatment of black-rot in France. [Abstract in English from report to the prefect of Lot.et-Garonne] Bot. Div. (Sect.Veg.Path.) Bul.11:88-93. 1890.

Frederich, W.J. Further studies on the relative susceptibility to citrus canker of different species and hybrids of the genus Citrus, including the wild relatives. See Peltier, G.L.

--------------- Relation of environmental factors to citrus scab caused by Cladosporium citri Massee. See Peltier, G.L.

--------------- Relative susceptibility of citrus fruits and hybrids to Cladosporium citrus Massee. See Peltier, G.L.

--------------- Relative susceptibility to citrus-canker of different species and hybrids of the genus Citrus, including the wild relatives. See Peltier, G.L.

Freeman, E.M., and Johnson, E.C. The loose smuts of barley and wheat. Bur. Plant Indus. Bul. 152, 48 p. 1909.

--------------- and Johnson, E.C. The rusts of grains in the United States. Bur. Plant Indus. Bul. 216, 87 p. 1911.

------------- and Umberger, H.J.C. The smuts of sorghum. Bur.Plant Indus. Circ. 8, 9 p. 1908. Rev. 1910.

Fromme, F.D., and Murray, T.J. Angular-leafspot of tobacco [Bacterium angulatum n.sp.], an undescribed bacterial disease. Jour.Agr.Res. 16: 219-228. 1919. (Va.(Blacksburg)-2)

---------- and Thomas, H.E. Black rootrot of the apple. Jour.Agr. Res. 10: 163-174. 1917. (Va.(Blacksburg)-1)

---------- and Wingard, S.A. Varietal susceptibility of beans to rust. Jour.Agr.Res.21: 385-404. 1921. (Va.(Blacksburg)-3)

Fulton, H.R. Commercial control of citrus stem-end rot. See Winston, J.R.

---------- Decline of Pseudomonas citri in the soil. Jour.Agr.Res. 19: 207-223. 1920. (G-193)

---------- The field testing of copper-spray coatings. See Winston, J.R.

---------- Preliminary results with the borax treatment of citrus fruits for the prevention of blue mold rot. Jour.Agr.Res.28: 961-968. 1924. (G-490)

Gaines, E.F. Genetics of bunt resistance in wheat. Jour. Agr. Res. 23: 445-480. 1923. (Wash.-1)
---------- Markton, an oat variety immune from covered smut. See Stanton, T.R.
Galloway, B.T., and Woods, A.F. Diseases of shade and ornamental trees. Yearbook 1896: 237-254. 1897.
---------- Division of vegetable physiology and pathology. Yearbook 1897: 99-111. 1898.
---------- The effect of spraying with fungicides on the growth of nursery stock. Div.Veg.Path.Bul.7, 41 p. 1894.
---------- Fungous diseases of the grape and their treatment. Farm. Bul. 4, 12 p. 1891.
---------- Grape vine diseases. Sect.Veg.Path.Circ.7, 4 p. [1889]
---------- The health of plants in greenhouses. Yearbook 1895:247-256. 1896.
---------- The pathology of plants: lines of investigation that might be undertaken by experiment stations. Exp. Sta. Rec.7:725-735. 1896.
---------- Plant diseases and the possibility of lessening their spread by legislation. (In Proc.Nat.conv. for suppression of insect pests and plant diseases by legislation, 1897.) [Dept.Rep.57]:8-11. 1897.
---------- Potato diseases and their treatment. Farm. Bul. 91, 12 p. 1899.
---------- Progress in the treatment of plant diseases in the United States. Yearbook 1899: 191-200. 1900.
---------- Report on the experiments made in 1889 in the treatment of the fungous diseases of plants. Bot. Div. (Sect.Veg.Path.) Bul.11, 119 p. 1890.
---------- Report on the experiments made in 1891 in the treatment of plant diseases. Div. Veg. Path. Bul.3, 76 p. 1892.
---------- Section of vegetable pathology. (In Vasey, G. and Galloway, B.T. A record of some of the work of the Division) Bot.Div. Bul.8: 41-67. 1889.
---------- Some destructive potato diseases: what they are and how to prevent them. Farm. Bul. 15, 8 p. 1894.
---------- Some observations on new and old insecticides and their combination with fungicides. Insect Life 7: 126-132. 1894.
---------- Spraying for fruit diseases. Farm. Bul. 38, 12 p. 1896.
---------- Treatment of black rot of the grape. Bot. Div. (Sect. Veg. Path.) Circ. 6, 3 p. 1888.
---------- Treatment of nursery stock for leaf-blight and powdery mildew. Div. Veg. Path. Circ. 10, 8 p. 1891.
---------- Work of the Bureau of plant industry in meeting the ravages of the boll weevil and some diseases of cotton. Yearbook 1904:497-508. 1905.
Gardner, M.W. Air and wind dissemination of ascospores of the chestnut-blight fungus. See Heald, F.D.
---------- Anthracnose of cucurbits. Dept. Bul.727, 68 p. 1918.
---------- and Kendrick, J.B. Bacterial spot of tomato [Bacterium exitiosum, n.sp.]. Jour.Agr.Res. 21: 123-156. 1921. (Ind.-9)
---------- Longevity of pycnospores of the chestnut-blight fungus in soil. See Heald, F.D.

Gardner, M.W. Origin and control of apple-blotch cankers. Jour.Agr. Res. 25: 403-418. 1923. (Ind.-12)
----------and Kendrick, J.B. Soybean mosaic. Jour. Agr. Res. 22: 111-114. 1921. (Ind.-10)
---------- Soybean mosaic: seed transmission and effect on yield. See Kendrick, J.B.
---------- and Kendrick, J.B. Turnip mosaic. Jour. Agr. Res. 22: 123-124. 1921 (Ind.-11)
---------- and others. The control of tobacco wilt in the flue-cured district. Dept. Bul.562, 20 p. 1917.
---------- and others. Sand drown, a chlorosis of tobacco due to magnesium deficiency, and the relation of sulphates and chlorids of potassium to the disease. Jour.Agr.Res.23: 27-40. 1923. (G-260)
Garrison, G.L. Experiments on the toxic action of certain gases on insects, seeds, and fungi. See Neifert, I.E.
Gayon, L.U. Effect of mildew on the vine, and the influence of efficient treatment. See Millardet, P.M.A.
---------- Search for copper on the vines treated with the lime and sulphate of copper mixture and in the harvest. See Millardet, P.M.A.
---------- Treatment of mildew by a mixture of sulphate of copper and lime. See Millardet, P.M.A.
Gerry, E. Five molds and their penetration into wood. Jour. Agr. Res. 26: 219-230. 1923. (F-10)
Giddings, L. A. The sugar-beet nematode in the western states. See Thorne, G.
Giddings, N. J. Investigations of the potato fungus Phytophthora infestans. See Jones, L.R.
Gilbert, A.H. Correlation of foliage degeneration diseases of the Irish potato with variations of the tuber and sprout. Jour. Agr. Res. 25: 255-266. 1923. (Vt.-2)
Gilbert, W.W. The control of cotton wilt and root-knot. See Orton, W.A.
---------- Cotton anthracnose and how to control it. Farm. Bul.555, 8 p. 1913.
---------- Cotton diseases and their control. Farm. Bul.1187, 32 p. 1921.
---------- Cotton wilt and root-knot. Farm. Bul. 625, 21 p. 1914. Rev. 1917.
---------- Diseases. (In Beattie, W.R. Celery growing) See Jagger, I.C.
---------- and Popenoe, C.H. Diseases and insects of garden vegetables. Farm. Bul. 1371, 46 p. 1924.
---------- and Popenoe, C.H. Diseases and insects of the home garden. Dept. Circ. 35, 31 p. 1919.
---------- Lightning injury to cotton and potato plants. See Jones, L.R.
---------- The root-rot of tobacco caused by Thielavia basicola. Bur. Plant Indus. Bul.158, 55 p. 1909.
---------- Soil disinfection with hot water to control the root-knot nematode and parasitic soil fungi. See Byars, L.P.
Gile, P.L., and Carrero, J.O. Cause of lime-induced chlorosis and availability of iron in the soil. Jour.Agr.Res. 20: 33-61. 1920. (B-16)
---------- Relation of calcareous soils to pineapple chlorosis. Porto Rico Agr. Exp. Sta. Bul.11, 45 p. 1911. (Spanish edition. Relacion entre los terrenos calcareo y la chlorosis de la pina. 1913)

Glover, T. Accidents and diseases of the cotton plant. Comr. Patents Rep. Agr. 1855: 230-234. 1856.

---------- Investigations on the insects and diseases affecting the cotton plant. Comr. Patents Rep. Agr. 1857: 121-129. 1858.

Gloyer, W.O. Ascochyta clematidina, the cause of stem-rot and leaf-spot of clematis. Jour.Agr.Res.4:331-342. 1915. (N.Y.(Geneva)-2)

Godfrey, G.H. Bacterial wilt of castor bean (Ricinus communis L.). See Smith, E.F.

---------- The depth distribution of the root-knot nematode, Heterodera radicicola, in Florida soils. Jour.Agr.Res.29(1924): 93-98. 1925. (G-446)

---------- Dissemination of the stem and bulb infesting nematode, Tylenchus dipsaci, in the seeds of certain composites. Jour. Agr. Res. 28: 473-478. 1924. (G-395)

---------- The eelworm disease: a menace to alfalfa in America. Dept. Circ.297, 8 p. 1923.

---------- Gray mold of castor bean. Jour.Agr.Res.23: 679-716. 1923. (G-283)

---------- A phytophthora footrot of rhubarb. Jour.Agr.Res. 23: 1-26. 1923. (G-259)

---------- Root-knot: its cause and control. Farm. Bul. 1345, 26 p. 1923.

---------- and McKay, M.B. The stem nematode Tylenchus dipsaci on wild hosts in the Northwest. Dept. Bul. 1239, 8 p. 1924.

Godkin, J. Bacterial blight of rye. See Reddy, C.S.

Goff, E.S. Notes on the treatment of apple scab. (In Proc. 6th Ann.Conv. Assoc.Amer.Agr.Col.& Exp.Sta. 1892) Off.Exp.Sta.Bul.16: 87-88. 1893.

---------- Report on the treatment of apple scab. (In Galloway, B.T. Report on experiments made in 1889 in treatment of fungous diseases of plants) Bot. Div. (Sect.Veg.Path.) Bul. 11:22-29. 1890.

Goss. E.W. Temperature and humidity studies of some Fusaria rots of the Irish potato. Jour.Agr.Res. 22: 55-80. 1921. (Nebr.-3)

Gravatt, G.F., and Posey, G.B. Gipsy-moth larvae as agents in the dissemination of the white-pine blister rust. Jour.Agr.Res. 12:459-462. 1918. (G-135)

---------- Treatment of ornamental white pines infected with blister rust. See Martin, J.F.

Griffiths, M.A. Experiments with flag smut of wheat and the causal fungus, Urocystis tritici Koke. Jour.Agr.Res. 27:425-450. 1924. (G-366)

---------- Flag smut of wheat and its control. See Tisdale, W.H.

Grossenbacher, J.G. Experiments on the decay of Florida oranges. (Miscellaneous papers.III) Bur. Plant Indus. Circ.124:17-28. 1913.

Hohn, G.G. A chlorosis of conifers corrected by spraying with ferrous sulphate. See Korstian, C.F.

---------- Hypertrophied lenticels on the roots of conifers and their relation to moisture and aeration. Jour.Agr.Res. 20: 253-256. 1920. (G-207)

---------- A nursery blight of cedars. Jour.Agr.Res. 10:533-540. 1917. (G-118)

Halsted, B.D. Field observations with fungi. (In Proc. 7th Ann. Conv. Assoc. Amer. Agr. Col. & Exp. Sta. 1893.) Off.Exp.Sta.Bul. 20:93-94. 1894.

---------- Fungus enemies of the tomato. (In Voorhees, E.B. Tomato growing) Farm.Bul. 76:27-29. 1897.

Halsted, B.D. Relations of climate and rainfall to the prevalence of fungus diseases. (In Proc. 12th Ann.Conv.Assoc.Amer.Col.& Exp.Sta. 1898.) Off.Exp.Sta.Bul.65: 126-127. 1899.

---------- Study of fruit decays. (In Proc. 6th Ann. Conv. Assoc. Amer. Agr. Col. & Exp.Sta., 1892) Off.Exp.Sta.Bul.16: 91-92. 1893.

Hansen, A.A. Dodder. Farm. Bul.1161, 21 p. 1921.

Harrington, J.B., and Aamodt, O.S. The mode of inheritance of resistance to Puccinia graminis with relation to seed color in crosses between varieties of Durum wheat. Jour. Agr. Res. 24: 979-996. 1923.(G-313)

Harsch, R.M. Pure cultures of wood-rotting fungi on artificial media. See Long, W.H.

Harter, L.L. Amylase of Rhizopus tritici, with a consideration of its secretion and action. Jour.Agr.Res.20: 761-786. 1921. (G-220)

---------- and Jones, L.R. Cabbage diseases, revised by J.C. Walker. Farm.Bul.1351, 28 p. 1923. (Revision of Farm.Bul.925. 1918)

---------- and Weimer, J.L. A comparison of the pectinase produced by different species of Rhizopus. Jour.Agr.Res.22:317-377. 1921. (G-254)

---------- Control of the black-rot and stem-rot of the sweet potato. (Miscellaneous papers.[III].) Bur. Plant Indus. Circ.114: 15-18. 1913.

---------- The decay of cabbage in storage: its cause and prevention. Bur. Plant Indus. Circ.33, 8 p. 1909.

---------- Diseases of cabbage and related crops and their control. Farm. Bul.488, 32 p. 1912.

---------- and Field, E.C. A dry rot of sweet potatoes caused by Diaporthe batatatis. Bur. Plant Indus. Bul.281, 38 p. 1913.

---------- The foot-rot of the sweet potato. Jour.Agr.Res. 1:251-274. 1913. (G-7)

---------- Fruit-rot, leaf-spot, and stem-blight of the eggplant caused by Phomopsis vexans. Jour.Agr.Res.2: 331-338. 1914. (G-28)

---------- Glucose as a source of carbon for certain sweet potato storage-rot fungi. See Weimer, J.L.

---------- A hitherto-unreported disease of okra [Ascochyta abelmoschi n.sp.]. Jour.Agr.Res.14: 207-212. 1918. (G-148)

---------- Hydrogen-ion changes induced by species of Rhizopus and by Botrytis cinerea. See Weimer, J.L.

---------- and Weimer, J.L. Influence of the substrate and its hydrogen-ion concentration on pectinase production. Jour.Agr.Res. 24: 861-878. 1923. (G-310)

---------- Podblight of the lima bean caused by Diaporthe phaseolorum. Jour. Agr. Res. 11: 473-504. 1917. (G-128)

---------- Pythium rootlet rot of sweet potatoes. Jour. Agr. Res. 29(1924): 53-55. 1925. (G-424)

---------- Respiration and carbohydrate changes produced in sweet potatoes by Rhizopus tritici. See Weimer, J.L.

---------- and Weimer, J.L. Respiration of sweet potato storage-rot fungi when grown on a nutrient solution. Jour.Agr.Res.21: 211-226. 1921. (G-230)

---------- and Weimer, J.L. Some physiological variations in strains of Rhizopus nigricans. Jour. Agr. Res. 26(1923): 363-371. 1924. (G-333)

Harter, L.L. Species of Rhizopus responsible for the decay of sweet potatoes in the storage house and at different temperatures in infection chambers. See Lauritzen, J.I.
---------- Storage-rots of economic aroids. Jour. Agr. Res. 6: 549-572. 1916. (G-85)
---------- and Weimer, J.L. Studies in the physiology of parasitism with special reference to the secretion of pectinase by Rhizopus tritici. Jour. Agr. Res. 21: 609-625. 1921. (G-240)
---------- and Weimer, J.L. Susceptibility of the different varieties of sweet potatoes to decay by Rhizopus nigricans and Rhizopus tritici. Jour. Agr. Res. 22:511-515. 1922. (G-258)
---------- Sweet-potato diseases. Farm. Bul.1059, 24 p. 1919. (Revision of Farm. Bul. 714. 1916)
---------- Sweet-potato scurf. Jour. Agr. Res. 5: 787-792. 1916. (G-73)
---------- and others. Sweet-potato storage-rots. Jour.Agr.Res.15: 337-368. 1918. (G-161)
---------- Temperature relations of eleven species of Rhizopus. See Weimer, J.L.
---------- Wound-cork formation in the sweet potato. See Weimer, J.L.
Hartley, C. The blights of coniferous nursery stock. Dept. Bul. 44, 21 p. 1913.
---------- A chlorosis of conifers corrected by spraying with ferrous sulphate. See Korstian, C.F.
---------- The control of damping-off of coniferous seedlings. Dept. Bul.453, 32 p. 1917.
---------- Damping-off in forest nurseries. Dept. Bul.934, 99 p. 1921.
---------- Hypertrophied lenticels on the roots of conifers and their relation to moisture and aeration. See Hahn, G.G.
---------- Injury by disinfectants to seeds and roots in sandy soils. Dept. Bul. 169, 35 p. 1915.
---------- A nursery blight of cedars. See Hahn, G.G.
---------- and others. Seedling diseases of conifers. Jour.Agr.Res. 15:521-558. 1918. (G-166)
---------- Stem lesions caused by excessive heat. Jour.Agr.Res.14: 595-604. 1918. (G-156)
Hartman, R.E. Influence of soil environment on the rootrot of tobacco. See Johnson, J.
---------- Investigations of potato wart. See Weiss, F.A.
Harvey, R.B. Catalase, hydrogen-ion concentration, and growth in the potato wart disease. See Weiss, F.A.
---------- and Wright, R.C. Frost injury to tomatoes. Dept.Bul.1099, 10 p. 1922.
---------- Hardening process in plants and developments from frost injury. Jour. Agr. Res. 15: 83-112. 1918. (G-158)
---------- Physiological study of the parasitism of Pythium debaryanum Hesse on the potato tuber. See Hawkins, L.A.
Hasse, C.H. Pseudomonas citri [n.sp.], the cause of citrus canker. (A preliminary report) Jour.Agr.Res. 4:97-100. 1915. (G-45)
Hawkins, L.A. The control of black-rot of the grape. See Shear, C.L.
---------- The disease of potatoes known as "leak". Jour.Agr.Res. 6: 627-640. 1916. (G-87)

Hawkins, L.A. Effect of certain species of Fusarium on the composition of the potato tuber. Jour.Agr.Res. 6:183-196. 1916. (G-78)
---------- and Sando, C.E. Effect of temperature on the resistance to wounding of certain small fruits and cherries. Dept.Bul.830, 6 p. 1920.
---------- Experiments in the control of grape anthracnose. Bur. Plant Indus. Circ. 105, 8 p. 1913.
---------- Experiments in the control of potato leak. Dept. Bul.577, 5 p. 1917.
---------- Grape-spraying experiments in Michigan in 1909. Bur. Plant Indus. Circ. 65, 15 p. 1910.
---------- Growth of parasitic fungi in concentrated solutions. Jour.Agr.Res. 7:255-260. 1916. (G-97)
---------- Internal browning of the yellow Newtown apple. See Ballard, W.S.
---------- Investigations on the mosaic disease of the Irish potato. (Preliminary paper) See Schultz, E.S.
---------- and Harvey, R.B. Physiological study of the parasitism of Pythium debaryanum Hesse on the potato tuber. Jour.Agr.Res.18: 275-298. 1919. (G-181)
---------- Some factors influencing the efficiency of Bordeaux mixture. Bur. Plant Indus. Bul. 265, 29 p. 1912.
Hayes, H.K., and others. Genetics of rust resistance in crosses of varieties of Triticum vulgare with varieties of T. durum and T. dicoccum. Jour. Agr. Res.19: 523-542. 1920. (Minn.-41)
----------and Aamodt, O.S. A study of rust resistance in a cross between Marquis and Kota wheats. Jour. Agr. Res. 24: 997-1012. 1923. (G-314)
Haywood, J.K. Injury to vegetation and animal life by smelter wastes. Bur. Chem. Bul.113, 40 p. 1908. Rev. 1910.
---------- Injury to vegetation by smelter fumes. Bur. Chem. Bul. 89, 23 p. 1905.
---------- Poisonous metals on sprayed fruits and vegetables. See Lynch, W.D.
Heald, F.D., and others. Air and wind dissemination of ascospores of the chestnut-blight fungus. Jour.Agr.Res. 3:493-526. 1915. (G-41)
---------- and Studhalter, R.A. Birds as carriers of the chestnut-blight fungus. Jour.Agr.Res. 2: 405-422. 1914. (G-31)
---------- and Gardner, M.W. Longevity of pycnospores of the chestnut-blight fungus in soil. Jour.Agr.Res. 2: 67-75. 1914. (G-18)
---------- and Wolf, F.A. A plant-disease survey in the vicinity of San Antonio, Texas. Bur. Plant Indus. Bul. 226, 129 p. 1912.
Hedgcock, G.G. The cross-inoculation of fruit trees and shrubs with crown-gall. (Miscellaneous papers.III.) Bur. Plant Indus. Bul.131: 21-23. 1908.
---------- The crown-gall and hairy-root diseases of the apple tree. (Miscellaneous papers.II.) Bur. Plant Indus. Bul.90:15-17. 1906.
---------- and Long, W.H. A disease of pines caused by Cronartium pyriforme. Dept. Bul.247, 20 p. 1915.

Hedgcock, G.G. Field studies of the crown-gall and hairy-root of the apple-tree. Bur. Plant Indus. Bul. 186, 108 p. 1910.
---------- Field studies of the crown-gall of the grape. Bur. Plant Indus. Bul. 183, 40 p. 1910.
---------- and Long, W.H. Heart-rot of oaks and poplars caused by Polyporus dryophilus. Jour. Agr. Res. 3:65-78. 1914. (G-34)
---------- and Long, W.H. Identity of Peridermium fusiforme with Peridermium cerebrum. Jour. Agr. Res. 2: 247-250. 1914. (G-24)
---------- Parasitism of Comandra umbellata. Jour.Agr.Res. 5: 133-135. 1915. (G-60)
---------- and others. Piñon blister-rust [Cronartium occidentale n.sp.]. Jour.Agr.Res. 14: 411-424. 1918. (G-152)
---------- Some stem tubers or knots on apple and quince trees. Bur. Plant Indus. Circ. 3, 16 p. 1908.
---------- and Long, W.H. Two new hosts for Peridermium pyriforme. Jour.Agr.Res. 5: 289-290. 1915. (G-65)
---------- The wrapping of apple grafts and its relation to the crown-gall disease. See Schrenk, H.von
Hedges, F., and Tenny, L.S. A knot of citrus trees caused by Sphaeropsis tumefaciens. Bur. Plant Indus. Bul.247, 74 p. 1912.
---------- A study of bacterial pustule of soybean, and a comparison of Bact. phaseoli sojense Hedges with Bact. phaseoli Efs. Jour. Agr. Res. 29(1924): 229-251. 1925. (G-440)
Hemstreet, C. Isolation of an inhibitory substance from plants. See Mallmann, W.L.
Henry, A.W. Spores in the upper air. See Stakman, E.C.
Higgins, B.B. A Colletotrichum leafspot of turnips. Jour. Agr. Res. 10: 157-162. 1917. (Ga.-2)
Hildebrandt, F.M. Investigations on the mosaic disease of the Irish potato. (Preliminary paper) See Schultz, E.S.
Hillman, F.H. Dodder in relation to farm seeds. Farm. Bul. 306, 27 p. 1907.
Hodson, E.R. Extent and importance of the chestnut bark disease. 8 p. 1908. (Forest Serv.)
Hoffer, G.N., and Carr, R.H. Accumulation of aluminum and iron compounds in corn plants and its probable relation to rootrots. Jour. Agr. Res. 23: 801-824. 1923. (G-286)
---------- Control of the root, stalk, and ear rot diseases of corn. See Holbert, J.R.
---------- and others. Corn-rootrot and wheat scab. (Preliminary paper) Jour.Agr.Res. 14: 611-612. 1918. (G-157)
Holbert, J.R. The black-bundle disease of corn. See Reddy, C.S.
---------- and Hoffer, G.N. Control of the root, stalk, and ear rot diseases of corn. Farm. Bul. 1176, 24 p. 1920.
---------- and others. Early vigor of maize plants and yield of grain as influenced by the corn root, stalk, and ear rot diseases. Jour.Agr.Res. 23:583-630. 1923. (G-282)
---------- Wheat scab and corn rootrot caused by Gibberella saubinetii in relation to crop successions. See Koehler, B.

Holladay, A.L. [Report of experiments in the treatment of black-rot and mildew of the grape-vine] (In Galloway, B.T. Report on experiments made in 1889 in treatment of fungous diseases of plants). Bot. Div. (Sect.Veg.Path.) Bul.11: 70-76. 1890.

Hosford, G.W. The decay of Florida oranges while in transit and on the market. See Tenny, L.S.

---------- The decay of oranges while in transit from California. See Powell, G.H.

Hough, F.B. Diseases and other injuries to forest trees. Div. Forestry, Rep. Forestry [1](1877): 174-190. 1878.

Howell, A.M. Report on the diseases of the vine in South Carolina. (In Scribner, F.L., and others. Report on experiments made in 1888 in treatment of downy mildew and black rot of the grape vine) Bot. Div. (Sect.Veg.Path.) Bul.10: 35-48. 1889.

---------- [Report on the treatment of fungous diseases of the grape and tomato.] (In Galloway, B.T. Report on experiments made in 1889 in treatment of fungous diseases of plants.) Bot.Div.(Sect.Veg. Path.) Bul.11: 49-65. 1890.

Hubert, E.E. The diagnosis of decay in wood. Jour.Agr.Res. 29(1924): 523-567. 1925. (G-417)

---------- Effect of kiln drying, steaming, and air seasoning on certain fungi in wood. Dept. Bul.1262, 20 p. 1924.

---------- Forest disease surveys. See Weir, J.R.

---------- The red stain in the wood of boxelder. Jour. Agr. Res. 26(1923): 447-457. 1924. (G-341).

---------- A serious disease in forest nurseries caused by Peridermium filamentosum. See Weir, J.R.

---------- A study of heart-rot in western hemlock. See Weir, J.R.

---------- A study of the rots of western white pine. See Weir, J.R.

Humphrey, C.J. Timber storage conditions in the eastern and southern states with reference to decay problems. Dept. Bul. 510, 42 p. 1917.

---------- and Fleming, R.M. The toxicity to fungi of various oils and salts, particularly those used in wood preservation. Dept.Bul. 227, 38 p. 1915.

Humphrey, H.B. Another wheat pest. Stripe rust, a cereal disease new to this country, reported in northwestern states last year. Weekly News Letter 3(33): 1. 1916.

---------- Cereal diseases and the national food supply. Yearbook 1917: 481-495. 1918.

---------- and Potter, A.A. Cereal smuts and the disinfection of seed grain. Farm. Bul. 939, 28 p. 1918.

---------- Studies in the physiology and control of bunt, or stinking smut, of wheat. See Woolman, H.M.

---------- Summary of literature on bunt, or stinking smut, of wheat. See Woolman, H.M.

---------- and Johnson, A.G. Take-all and flag smut, two wheat diseases new to the United States. Farm. Bul. 1063, 8 p. 1919.

---------- and others. Take-all of wheat and its control. Farm. Bul.1226, 12 p. 1921.

Hungerford, G.W. Rust in seed wheat and its relation to seedling infection. Jour.Agr.Res. 19:257-278. 1920. (G-195)

---------- and Owens, C.E. Specialized varieties of Puccinia glumarum, and hosts for variety tritici. Jour.Agr.Res. 25: 363-402. 1923. (G-327)

---------- Studies on the life history of stripe rust, Puccinia glumarum (Schm.) Erikss. & Henn. Jour.Agr.Res. 24:607-620. 1923. (G-305)

Hunt, N.R. Piñon blister-rust. See Hedgcock, G.G.

Hurd, A.M. The course of acidity changes during the growth period of wheat with special reference to stem-rust resistance. Jour. Agr. Res. 27: 725-735. 1924. (G-379)

---------- Hydrogen-ion concentration and varietal resistance of wheat to stemrust and other diseases. Jour.Agr.Res.23:373-386.1923.(G-277)

---------- Injury to seed wheat resulting from drying after disinfection with formaldehyde. Jour.Agr.Res. 20: 209-244. 1920. (G-206)

---------- Seed-coat injury and viability of seeds of wheat and barley as factors in susceptibility to molds and fungicides. Jour. Agr. Res. 21(2): 99-122. 1921. (G-223)

Hursh, C.R. Morphological and physiological studies on the resistance of wheat to Puccinia graminis tritici Erikss. and Henn. Jour.Agr. Res. 27: 381-412. 1924. (G-353)

Ingram, D.E. A twig blight of Quercus prinus and related species. Jour. Agr. Res. 1: 339-346. 1914. (G-10)

Jackson, H.S., and Mains, E.B. Aecial stage of the orange leafrust of wheat, Puccinia triticina Eriks. Jour.Agr.Res.22: 151-172. 1921. (G-247)

---------- Aecial stages of the leaf rusts of rye, Puccinia dispersa Erikss and Henn., and of barley, P. anomala Rostr., in the United States. See Mains, E.B.

---------- An Asiatic species of Gymnosporangium established in Oregon. Jour. Agr. Res. 5: 1003-1010. 1916. (Ind.-2)

Jaeger, H. Experiments at Neosho, Missouri. (In Scribner, F.L. Report on experiments made in 1887-1888 in treatment of downy mildew and black-rot of the grape vine) Bot. Div.(Sect.Veg.Path.) Bul.5: 29-36,1888; 10: 29-34, 1889.

---------- [Report on the experiments in the treatment of grape diseases.] (In Galloway, B.T. Report on experiments made in 1889 in treatment of fungous diseases of plants) Bot. Div.(Sect. Veg. Path.) Bul.11: 65-69. 1890.

Jagger, I.C. Bacterial leafspot disease of celery [Pseudomonas apii n.sp.]. Jour.Agr.Res.21:185-188. 1921. (G-228)

---------- and Gilbert, W.W. Diseases. (In Beattie, W.R. Celery growing.) Farm. Bul.1269: 16-19. 1922.

---------- Diseases affecting greenhouse lettuce. (In Beattie, J.H. Lettuce growing in greenhouses) Farm. Bul.1418: 18-20. 1924.

---------- Sclerotinia minor, n.sp., the cause of a decay of lettuce, celery, and other crops. Jour. Agr. Res. 20: 331-334. 1920. (G-211)

---------- A transmissible mosaic disease of lettuce. Jour. Agr. Res. 20: 737-740. 1921. (G-219)

Jamieson, C.O. A bacterium causing a disease of sugar-beet and nasturtium leaves. See Brown, N.A.

Jamieson, C.O. Phoma destructiva, the cause of a fruit rot of the tomato. Jour. Agr. Res. 4: 1-20. 1915. (G-42)
Jenkins, A.E. Brown canker of roses, caused by Diaporthe umbrina. Jour. Agr. Res. 15: 593-600. 1918. (G-168)
---------- A fungous disease of hemp. See Charles, V.K.
---------- Occurrence of the currant cane blight fungus on other hosts. See Stevens, N.E.
---------- Sclerotinia carunculoides, the cause of a serious disease of the mulberry (Morbus alba). See Siegler, E.A.
Jenkins, J.M. Straighthead of rice and its control. See Tisdale, W.H.
Jenkins, M.T. Early vigor of maize plants and yield of grain as influenced by the corn root, stalk, and ear rot diseases. See Holbert, J.R.
Jensen, C.A. Composition of citrus leaves at various stages of mottling. Jour. Agr. Res. 9: 157-166. 1917. (G-109)
---------- Mottle-leaf of citrus trees in relation to soil conditions. See Briggs, L.J.
---------- The mulched-basin system of irrigated citrus culture and its bearing on the control of mottle-leaf. See Briggs, L.J.
Jensen, L. Infection experiments with timothy rust. See Stakman, E.C.
Johann, H. Production of conidia in Gibberella saubinetii. See Dickson, J.G.
Johnson, A.G. Bacterial-blight of barley. See Jones, L.R.
---------- Bacterial blight of rye. See Reddy, C.S.
---------- Corn root-rot and wheat scab. See Hoffer, G.N.
---------- and others. The rosette disease of wheat and its control. Farm. Bul. 1414, 10 p. 1924.
---------- Take-all and flag smut, two wheat diseases new to the United States. See Humphrey, H.B.
---------- Take-all of wheat and its control. See Humphrey, H.B.
---------- Treatment of cereal seeds by dry heat. See Atanasoff, D.
---------- and Dickson, J.G. Wheat scab and its control. Farm. Bul. 1224, 16 p. 1921.
Johnson, E.C. The loose smuts of barley and wheat. See Freeman, E.M.
---------- The rusts of grains in the United States. See Freeman, E.M.
---------- The smuts of wheat, oats, barley, and corn. Farm. Bul. 507, 32 p. 1912.
---------- A study of some imperfect fungi isolated from wheat, oats, and barley plants. Jour. Agr. Res. 1: 475-490. 1914. (G-15)
---------- Timothy rust in the United States. Bur. Plant Indus. Bul. 224, 20 p. 1911.
Johnson, J. A bacterial leafspot of tobacco. Jour. Agr. Res. 23:481-494. 1923. (G-280)
---------- Fusarium-wilt of tobacco. Jour. Agr. Res. 20: 515-536. 1921. (G-214)
---------- Host plants of Thielavia basicola. Jour. Agr. Res. 7:289-300. 1916. (Wis.-6)
---------- and Hartman, R.E. Influence of soil environment on the root-rot of tobacco. Jour. Agr. Res. 17: 41-86. 1919. (Wis.-15)
---------- and Milton, R.H. Strains of White Burley tobacco resistant to root-rot. Dept. Bul. 765, 11 p. 1919.

Johnson, J. Tobacco diseases and their control. Dept. Bul. 1256, 56 p. 1924.

Johnson, M.O. Manganese chlorosis of pineapples: its cause and control. Hawaii Agr. Exp. Sta. Bul. 52, 38 p. 1924.

---------- The spraying of yellow pineapple plants on manganese soils with iron sulphate solutions. Hawaii Agr. Exp. Sta. Press Bul. 51, 11 p. 1916.

Johnston, J.R. The bud-rot of the coconut palm. Bur. Plant Indus. Circ. 36, 5 p. 1909.

---------- The history and cause of the coconut bud-rot. Bur. Plant Indus. Bul. 228, 175 p. 1912.

Jones, E.S. Influence of temperature, moisture, and oxygen on spore germination of Ustilago avenae. Jour. Agr. Res. 24: 577-591. 1923. (G-302)

---------- Influence of temperature on the spore germination of Ustilago zeae. Jour. Agr. Res. 24: 593-597. 1923. (G-303)

---------- Relation of certain soil factors to the infection of oats by loose smut. See Bartholomew, L.K.

Jones, F.R., and Drechsler, C. Crownwart of alfalfa caused by Urophlyctis alfalfae. Jour. Agr. Res. 20: 295-324. 1920. (G-209)

---------- The leaf-spot diseases of alfalfa and red clover caused by the fungi Pseudopeziza medicaginis and Pseudopeziza trifolii, respectively. Dept. Bul. 759, 38 p. 1919.

---------- Stem and rootrot of peas in the United States caused by species of Fusarium. Jour. Agr. Res. 26(1923): 459-476. 1924. (G-342)

---------- Yellow-leafblotch of alfalfa caused by the fungus Pyrenopeziza medicaginis. Jour. Agr. Res. 13: 307-330. 1918. (G-142)

Jones, L.R., and others. Bacterial-blight of barley [Bacterium translucens n.sp.]. Jour.Agr.Res. 11: 625-644. 1917. (Wis.-9)

---------- and others. Bacterial leafspot of clovers [Bacterium trifoliorum n.sp.]. Jour.Agr.Res. 25: 471-490. 1923. (Wis.-24)

---------- Cabbage diseases. See Harter, L.L.

---------- A comparative test of fungicides in checking potato blight and rot. (In Proc. 6th Ann. Conv. Assoc. Amer. Agr. Col. & Exp. Sta., 1892.) Off. Exp. Sta. Bul. 16: 89-91. 1893.

---------- Disease resistance of potatoes. Bur. Plant Indus. Bul. 87, 39 p. 1905.

---------- and others. Investigations of the potato fungus Phytophthora infestans. Bur. Plant Indus. Bul. 245, 100 p. 1912.

---------- and Gilbert, W.W. Lightning injury to cotton and potato plants. Mo. Weather Rev. 43: 135. 1915.

---------- Relation of soil temperature and other factors to onion smut infection. See Walker, J.C.

Keitt, G.W. Inoculation experiments with species of Coccomyces from stone fruits. Jour. Agr. Res. 13: 539-569. 1918. (Wis.-12)

---------- Peach scab and its control. Dept. Bul. 395, 66 p. 1917.

Kellerman, K.F. Cooperative work for eradicating citrus canker. Yearbook 1916: 267-272. 1917.

---------- The relation of crown-gall to legume inoculation. Bur. Plant Indus. Circ. 76, 6 p. 1911.

---------- The use of Congo red in culture media. (Miscellaneous papers. [II].) Bur. Plant Indus. Circ. 130: 15-17. 1913.

Kelley, W.P., and Cummins, A.B. Composition of normal and mottled citrus leaves. Jour. Agr. Res. 20:161-191. 1920. (Calif.-24)

Kelly, J.W. Physiological studies of normal and blighted spinach. See True, R.H.

Kempton, F.E. Progress of barberry eradication. Dept. Circ.188, 37 p. 1921.

Kendrick, J.B. Bacterial spot of tomato. See Gardner, M.W.

---------- Soybean mosaic. See Gardner, M.W.

---------- and Gardner, M.W. Soybean mosaic: seed transmission and effect on yield. Jour. Agr. Res. 27: 91-98. 1924. (Ind.-13)

---------- Turnip mosaic. See Gardner, M.W.

---------- Varietal resistance in winter wheat to the rosette disease. See Webb, R.W.

Khazanoff, A. A new tumor of the apricot (Monochaetia rosenwaldia Khaz. n.sp.). Jour. Agr. Res.26:45-60. 1923. (Calif-36)

King, C.J. Cotton rootrot in Arizona. Jour.Agr.Res.23:525-527. 1923. (G-281)

---------- Habits of the cotton rootrot fungus. Jour.Agr.Res. 26(1923): 405-418. 1924. (G-340)

King, W.R. Mal di goma. Foot rot, gum disease, sore shin, etc. (In repor on relative merits of various stocks for the orange.) Div. Pomol. Bul.4: 18-19. 1891.

Klapheak, P.J. Cultivated and wild hosts of sugar-cane or grass mosaic. See Brandes, E.W.

Koehler, B. Early vigor of maize plants and yield of grain as influenced by the corn root, stalk, and ear rot diseases. See Holbert, J.R.

---------- and others. Wheat scab and corn rootrot caused by Gibberella saubinetii in relation to crop successions. Jour. Agr. Res. 27: 861-880. 1924. (G-373)

Korstian, C.F., and others. A chlorosis of conifers corrected by spraying with ferrous sulphate. Jour. Agr. Res. 21(3): 153-171. 1921. (F-5)

---------- Control of snow molding in coniferous nursery stock. Jour. Agr. Res. 24: 741-748. 1923. (F-9)

---------- and Long, W.H. The western yellow pine mistletoe: effect on growth and suggestions for control. Dept. Bul.1112, 36 p. 1922.

Krout, W.S. Control of lettuce drop by the use of formaldehyde. Jour. Agr. Res. 23: 645-654. 1923. (Mass.-7)

---------- Treatment of celery seed for the control of Septoria blight. Jour. Agr. Res. 21: 369-372. 1921. (Mass.-6)

Kunkel, L.O. A contribution to the life history of Spongospora subterranea. Jour. Agr. Res. 4: 265-278. 1915. (G-49)

---------- Further data on the orange-rusts of Rubus. Jour. Agr.Res. 19: 501-512. 1920. (G-202)

---------- Potato wart. See Lyman, G.R.

---------- Tissue invasion by Plasmodiophora brassicae. Jour. Agr. Res. 14: 543-572. 1918. (G-155)

---------- Wart of potatoes: a disease new to the United States. Bur. Plant Indus., Cotton, Truck & For. Crop Dis. Invos. Circ.6, 14 p. 1919.

Kurtzweil, C. Genetics of rust resistance in crosses of varieties of Triticum vulgare with varieties of T. durum and T. dicoccum. See Hayes, H.K.

Lafitte, P. de. Action of sulphate of copper on the mildew. (Translated from Journal d'agriculture pratique, Oct.1,1885. (In Scribner,F.L. Report on the fungus diseases of the grape vine) Bot.Div.(Sect. Veg. Path.) Bul.2: 100-107. 1886.

Larrimer, W.H. Symptoms of wheat rosette compared with those produced by certain insects. See McKinney, H.H.

Lauritzen, J.I., and Harter, L.L. Species of Rhizopus responsible for the decay of sweet potatoes in the storage house and at different temperatures in infection chambers. Jour.Agr.Res. 24:441-456. 1923. (G-298)

Leach, J.G. New biologic forms of Puccinia graminis. See Stakman,E.C.

Lee, H.A. Behavior of the citrus-canker organism in the soil. Jour. Agr. Res. 19:189-206. 1920. (G-182)

---------- Further data on the susceptibility of rutaceous plants to citrus-canker. Jour. Agr. Res. 15: 661-666. 1918. (G-170)

---------- A new bacterial citrus disease (Bacterium citrarefaciens, sp.nov.). Jour.Agr.Res.9:1-8. 1917. (Calif.-10)

Leighty, C.E. Flag smut of wheat. See Tisdale, W.H.

---------- Resistance in rye to leaf rust, Puccinia dispersa Erikss. See Mains, E.B.

---------- The rosette disease of wheat and its control. See Johnson, A.G.

---------- Varietal resistance in winter wheat to the rosette disease. See Webb, R. W.

Leonard, L.T. Effect of moisture on a seed-borne bean disease. Jour. Agr. Res. 28: 489-497. 1924. (G-390)

---------- An influence of moisture on bean wilt. Jour.Agr.Res. 24: 749-752. 1923. (G-307)

Leukel, R.W. Investigations on the nematode disease of cereals caused by Tylenchus tritici. Jour. Agr. Res. 27: 925-956. 1924. (G-406)

Levine, M.N. Biologic forms of Puccinia graminis on varieties of Avena spp. See Stakman, E.C.

---------- Effect of certain ecological factors on the morphology of the urediniospores of Puccinia graminis. See Stakman, E.C.

---------- New biologic forms of Puccinia graminis. See Stakman, E.C.

---------- Plasticity of biologic forms of Puccinia graminis. See Stakman, E.C.

---------- Puccinia graminis poae Erikss. and Henn. in the United States. See Stakman, E.C.

---------- A statistical study of the comparative morphology of biologic forms of Puccinia graminis. Jour.Agr.Res.24: 539-568. 1923. (G-300)

---------- and Stakman, E.C. A third biologic form of Puccinia graminis on wheat. (Preliminary paper) Jour.Agr.Res.13: 651-654. 1918. (Minn.-30)

Lindegren, C.C. Further studies on the relation of onion scale pigmentation of disease resistance. See Walker, J.C.

---------- and Rose, D.H. Two hitherto unreported diseases of stone fruits. (Botrytis rot of peaches, Alternaria rot of cherries). Jour. Agr. Res. 28: 603-605. 1924. (G-405)

Link, G.K.K., and Meier, F.C. Anthracnose of muskmelons. Dept. Circ.217, 4 p. May,1922.

Link, G.K.K. Bacterial spot of cucumbers. See Meier, F.C.
---------- and Bailey, A.A. Botrytis rot of the globe artichoke. Jour. Agr. Res. 29(1924): 85-92. 1925. (G-403)
---------- Control of potato-tuber diseases. See Shapovalov. M.
---------- and Meier, F.C. Fusarium tuber rot of potatoes. Dept. Circ.214, 8 p. 1922.
---------- and Meier, F.C. Late-blight tuber rot of the potato. Dept. Circ.220, 5 p. 1922. Rev. 1924.
---------- and Meier, F.C. Phoma rot of tomatoes. Dept. Circ.219, 5 p. 1922.
---------- Potato brown-rot. See Meier, F.C.
---------- Powdery dry rot of potato (Fusarium). See Orton, W.A.
Lippincott, J.S. (Grape diseases.) (In his Observations on atmospheric humidity.) Comr. Agr. Rep. 1865: 542-550. 1866.
Loew, O. On the "sick" soils of Porto Rico. Porto Rico Agr. Exp. Sta. Circ.12, 24 p. 1910.
-------- Soil disinfection in agriculture. Porto Rico Agr. Exp. Sta. Circ.11, 12 p. 1909.
Long, W.H. The death of chestnuts and oaks due to Armillaria mellea. Dept. Bul. 89, 9 p. 1914.
---------- A disease of pines caused by Cronartium pyriforme. See Hedgcock, G.G.
---------- Heart-rot of oaks and poplars caused by Polyporus dryophilus. See Hedgcock, G.G.
---------- A honeycomb heart-rot of oaks caused by Stereum subpileatum. Jour. Agr. Res. 5: 421-428. 1915. (G-67)
---------- Identity of Peridermium fusiforme with Peridermium cerebrum. See Hedgcock, G.G.
---------- Influence of the host on the morphological characters of Puccinia ellisiana and Puccinia andropogonis. Jour. Agr. Res. 2: 303-319. 1914. (G-27)
---------- Investigations of the rotting of slash in Arkansas. Dept. Bul.496, 15 p. 1917.
---------- Polyporus dryadeus, a root parasite on the oak. Jour. Agr. Res. 1: 239-250. 1913. (G-6)
---------- A preliminary report on the occurrence of western red-rot in Pinus ponderosa. Dept. Bul. 490, 8 p. 1917.
---------- and Harsch, R.M. Pure cultures of wood-rotting fungi on artificial media. Jour. Agr. Res. 12: 33-82. 1918. (G-132)
---------- Three undescribed heart-rots of hardwood trees, especially of oak. Jour. Agr. Res. 1: 109-128. 1913. (G-2)
---------- Two new hosts for Peridermium pyriforme. See Hedgcock, G.G.
---------- An undescribed canker of poplars and willows caused by Cytospora chrysosperma. Jour. Agr. Res. 13: 331-344. 1918. (G-143)
---------- An undescribed species of Gymnosporangium from Japan. Jour. Agr. Res. 1: 353-356. 1914. (G-11)
---------- The western yellow pine mistletoe: effect on growth and suggestions for control. See Korstian, C.F.
Lutman, B.F. Investigations of the potato fungus Phytopthora infestans. See Jones, L.R.
Lyman, G.R., and others. Potato wart Dept. Circ. 111, 19 p. 1920.

Lyman, H.L. Experiments at Charlottesville, Va. (In Scribner, F.L. Report on experiments made in 1887-1888 in the treatment of downy mildew and black-rot of the grape vine) Bot.Div. (Sect.Veg. Path.) Bul. 5: 7-16, 1888; 10: 20-28, 1889.

Lynch, W.D., and others. Poisonous metals on sprayed fruits and vegetables. Dept. Bul. 1027, 66 p. 1922.

McClelland, T.B. The coffee leaf spot (Stilbella flavida) in Porto Rico. Porto Rico Agr. Exp. Sta. Bul. 28, 12 p. 1921.

McClintock, J.A. Ginseng diseases and their control. See Whetzel, H.H.

---------- Peach rosette, an infectious mosaic. Jour. Agr. Res. 24: 307-316. 1923. (Ga.-3)

---------- Peanut-wilt caused by Sclerotium rolfsii. Jour. Agr. Res. 8: 441-448. 1917. (Va.-2)

---------- and Smith, L.B. True nature of spinach-blight and relation of insects to its transmission. Jour. Agr. Res. 14: 1-60. 1918. (Va.(Norfolk)-3)

McCulloch, L. A bacterial blight of gladioli [Bacterium gummisudans n.sp.]. Jour. Agr. Res. 27: 225-230. 1924. (G-364)

---------- Bacterial leafspot of clovers. See Jones, L.R.

---------- Basal glumerot of wheat [Bacterium atrofaciens n.sp.]. Jour. Agr. Res. 18: 543-552. 1920. (G-185)

---------- A leaf and corm disease of gladioli caused by Bacterium marginatum. Jour. Agr. Res. 29(1924): 159-177. 1925. (G-447)

---------- The structure and development of crown gall: a plant cancer. See Smith, E.F.

---------- A spot disease of cauliflower [Bacterium maculicolum n.sp.]. Bur. Plant Indus. Bul.225, 15 p. 1911.

McDonnell, C.C. Poisonous metals on sprayed fruits and vegetables. See Lynch, W.D.

McKay, A.W. The handling and storage of apples in the Pacific Northwest. See Ramsey, H.J.

McKay, M.B. Climatic conditions as related to Cercospora beticola. See Pool, V.W.

---------- The control of the sugar-beet leaf-spot. See Pool, V.W.

---------- Phoma betae on the leaves of the sugar beet. See Pool, V.W.

---------- Relation of stomatal movement to infection by Cercospora beticola. See Pool, V.W.

---------- The stem nematode Tylenchus dipsaci on wild hosts in the Northwest. See Godfrey, G.H.

---------- Transmission of some wilt diseases in seed potatoes. Jour. Agr. Res. 21: 821-848. 1921. (Oreg.-6)

McKenney, R.E.B. A dangerous tobacco disease [blue mold] appears in the United States. See Smith, E.F.

---------- The present status of the tobacco blue-mold (Peronospora) disease in the Georgia-Florida district. See Smith, E.F.

---------- Suggestions to growers for treatment of tobacco blue-mold disease in the Georgia-Florida district. See Smith, E.F.

---------- The wilt disease of tobacco and its control. (Miscellaneous papers, I) Bur. Plant Indus. Bul. 51: 5-8. 1905.

Mackie, W.W., and Allen, R.F. The resistance of oat varieties to stem rust. Jour. Agr. Res. 28: 705-720. 1924. (G-421)

McKinney, H.H. Influence of soil temperature and moisture on infection of wheat seedlings by Helminthosporium sativum. Jour. Agr. Res. 26: 195-218. 1923. (G-333)

---------- and others. The intracellular bodies associated with the rosette disease and a mosaiclike leaf mottling of wheat. Jour. Agr. Res. 26(1923): 505-608. 1924. (G-346)

---------- Investigations of the rosette disease of wheat and its control. Jour. Agr. Res. 23: 771-800. 1923. (G-285)

---------- The rosette disease of wheat and its control. See Johnson, A.G.

---------- and Larrimer, W.H. Symptoms of wheat rosette compared with those produced by certain insects. Dept. Bul.1137, 8 p. 1923.

---------- Take-all of wheat and its control. See Humphrey, H.B.

McLane, J.W. Mottle-leaf of citrus trees in relation to soil conditions. See Briggs, L.J.

---------- The mulched-basin system of irrigated citrus culture and its bearing on the control of mottle-leaf. See Briggs, L.J.

MacMillan, H.G. Fusarium-blight of potatoes under irrigation. Jour. Agr. Res. 16: 279-304. 1919. (G-174)

---------- Sunscald of beans. Jour. Agr. Res. 13: 647-650. 1918. (G-147)

McMurran, S.M. The anthracnose of the mango in Florida. Dept. Bul. 52, 15 p. 1914.

---------- and Demaree, J.B. Diseases of southern pecans. Farm. Bul.1129, 29 p. 1920.

---------- Pecan rosette in relation to soil deficiencies. Dept. Bul.756, 11 p. 1919.

---------- Preventing wood rot in pecan trees. Farm. Bul.995, 8 p. 1918.

---------- Walnut blight [Bacterium juglandis (Pierce) Erw. Smith] in the eastern United States. Dept. Bul.611, 7 p. 1917.

McMurtrey, J.E. Sand drown, a chlorosis of tobacco due to magnesium deficiency, and the relation of sulphates and chlorids of potassium to the disease. See Garner, W.W.

McMurtrie, W. On the condition in nature which may influence or tend to the production of mildew and rot. (In his Report of the chemist) Comr. Agr. Rep. 1877: 81-89. 1878.

Magness, J.R. The handling, shipping, and cold storage of Bartlett pears in the Pacific coast states. Dept. Bul.1072, 16 p. 1922.

---------- Internal browning of the yellow Newtown apple. See Ballard, W.S.

---------- and Diehl, H.C. Physiological studies on apples in storage. Jour. Agr. Res. 27: 1-38. 1924. (G-347)

Mains, E.B. Aecial stage of the orange leafrust of wheat, Puccinia triticina Eriks. See Jackson, H.S.

---------- and Jackson, H.S. Aecial stages of the leaf rusts of rye, Puccinia dispersa Erikss. and Henn., and of barley, P. anomala Rostr., in the United States. Jour. Agr. Res. 28: 1119-1126. 1924. (G-415)

---------- and Leighty, C.E. Resistance in rye to leaf rust, Puccinia dispersa Erikss. Jour. Agr. Res. 25: 243-252. 1923. (G-323)

Mallmann, W.L., and Hemstreet, C. Isolation of an inhibitory substance from plants. Jour. Agr. Res. 28: 599-602. 1924. (Mich.-14)

Manns, T.F., and Phillips, C.E. Corn rootrot studies. Jour. Agr. Res. 27: 957-964. 1924. (Del.-5)

---------- and Adams, J.F. Parasitic fungi internal of seed corn. Jour. Agr. Res. 23: 495-524. 1923. (Del.-4)

Markell, E.L. The handling and precooling of Florida lettuce and celery. See Ramsey, H.J.

---------- The handling and storage of apples in the Pacific Northwest. See Ramsey, H.J.

Marlatt, C.L., and Orton, W.A. The control of codling moth and apple scab. Farm. Bul. 247, 23 p. 1906.

Martin, J.F., and Pierce, R.G. Laws affecting currants and gooseberries. Synopsis of laws and quarantine regulations of the various states and of the United States and Canada bearing on the control of the white-pine blister rust... (In Darrow, G.M. Currants and gooseberries) Farm.Bul. 1024:37-40. 1919. Rev.1922.

---------- and others. Treatment of ornamental white pines infected with blister rust. Dept. Circ. 177, 20 p. 1921.

Martin, W.H. Influence of Bordeaux mixture on the rates of transpiration from abscised leaves and from potted plants. Jour. Agr. Res. 7: 529-548. 1916. (N.J.-4)

Martius, C.F.P.von On the diseases of potatoes. Extracted principally from Die Kartoffel-Epidemic - Dr. von Martius, Munich, 1842. (Translation reprinted from Gardeners' chronicle 1845: 624, 656.) Comr. Patents Rep. 1845: 673-676. 1846.

---------- The potato epidemic of last year, or the rot and scab of the potato, described by Dr. C.F. Ph.von Martius, Munich, 1842. Extracted and translated by H. Scholl. Comr. Patents Rep. 1845: 668-673. 1846.

---------- Report of Dr. von Martius, commissioner appointed by the High ministerial rescript of Aug.25 for the accurate investigation of the potato disease in the Palatinate. Translation from Centralblatt des landwirthschaftlichen vereins in Bayern by E.G.Smith, Comr. Patents Rep. 1845: 676-688. 1856.

May, E. Quarantine procedure to safeguard the introduction of citrus plants: a system of aseptic plant propagation. See Swingle, W.T.

Meier, F.C. Anthracnose of muskmelons. See Link, G.K.K.

---------- and Link, G.K.K. Bacterial spot of cucumbers. Dept. Circ. 234, 5 p. 1922.

---------- Control of watermelon anthracnose by spraying. Dept. Circ. 90, 11 p. 1920.

---------- Diseases of watermelons. See Orton, W.A.

---------- Extension work in plant pathology, 1923. Dept. Circ.329, 19 p. 1924.

---------- Fusarium tuber rot of potatoes. See Link, G.K.K.

---------- Late-blight tuber rot of the potato. See Link, G.K.K.

---------- Phoma rot of tomatoes. See Link, G.K.K.

---------- and Link, G.K.K. Potato brown-rot. Dept. Circ.281, 6 p. 1923.

---------- Watermelon stem-end rot. (Preliminary paper) Jour. Agr. Res.6:149-152. 1916. (G-76)

Meinecke, E.P. Disease. (In Mitchell, J.A. Incense cedar, Libocedrus decurrens Torrey.) Dept. Bul.604: 29-30. 1917.

Meinecke, E.P. Forest pathology in forest regulation. Dept. Bul.275, 62 p. 1915.
---------- Forest tree diseases common in California and Nevada. A manual for field use. 67 p. 1914. (Forest Serv.)
Melchers, L.E., and Parker, J.H. Rust resistance in winter-wheat varieties. Dept. Bul. 1046, 32 p. 1922.
Melhus, I.E. Hibernation of Phytophthora infestans in the Irish potato. Jour. Agr. Res. 5: 71-102. 1915. (G-58)
---------- Perennial mycelium in species of Peronosporaceae related to Phytophthora infestans. Jour. Agr. Res. 5: 59-70. 1915. (G-57)
---------- Powdery scab (Spongospora subterranea) of potatoes. Dept. Bul.82, 16 p. 1914.
---------- Silver scurf, a disease of the potato. (Miscellaneous papers. [II]) Bur. Plant Indus. Circ.127: 15-24. 1913.
---------- and others. Spongospora subterranea and Phoma tuberosa on the Irish potato. Jour. Agr. Res. 7: 213-254. 1916. (G-96)
Merrill, T.C. Seedling diseases of conifers. See Hartley, C.
Metcalf, H. The chestnut bark disease. Yearbook. 1912: 363-372. 1913.
---------- and Collins, J.F. The control of the chestnut bark disease. Farm. Bul.467, 24 p. 1911.
---------- Diseases of ornamental trees. Yearbook. 1907: 483-494. 1908.
---------- The immunity of the Japanese chestnut to the bark disease. (Miscellaneous papers, VI.) Bur. Plant Indus. Bul.121:55-56. 1908.
---------- and Collins, J.F. The present status of the chestnut bark disease. (Miscellaneous papers. V.) Bur. Plant Indus. Bul.141: 45-54. 1909.
Milbrath, D.G. Downy mildew on lettuce in California. Jour.Agr.Res. 23: 989-994. 1923. (G-293)
Miles, G.F. The control of black-rot of the grape. See Shear, C.L.
---------- The control of Texas root-rot of cotton. See Shear, C.L.
---------- Texas root-rot of cotton: field experiments in 1907. See Shear, C.L.
Millardet, P.M.A., and Gayon, L.U. Effect of mildew on the vine, and the influence of efficient treatment. [Translated from] Journal d'agriculture pratique, Oct.29, 1885. (In Scribner, F.L. Report on the fungus diseases of the grape vine) Bot. Div. (Sect.Veg.Path.) Bul. 2:97-99. 1886.
---------- and Gayon, L.U. Search for copper on the vines treated with the lime and sulphate of copper mixture and in the harvest. [Translated from] Journal d'agriculture pratique, Nov.19,1885.(In Scribner, F.L. Report on the fungus diseases of the grape vine.) Bot. Div. (Sect. Veg. Path.) Bul.2: 116-118. 1886.
---------- Treatment of mildew and rot. [Translated from] Journal d'agriculture pratique, Oct.8,1885. (In Scribner, F.L. Report on the fungus diseases of the grape vine.) Bot.Div. (Sect. Veg.Path.) Bul.2: 94-96. 1886.
---------- and Gayon, L.U. Treatment of mildew by a mixture of sulphate of copper and lime. [Translated from] Journal d'agriculture pratique, Nov.12,1885. (In Scribner,F.L. Report on the fungus diseases of the grape vine.) Bot.Div. (Sect.Veg.Path.) Bul.2: 108-112. 1886.
Milton R.H. Strains of White Burley tobacco resistant to root-rot. See Johnson, J.

Moir, W.S. White-pine blister rust in western Europe. Dept. Bul. 1186, 32 p. 1924.

Monteith, J. Relation of soil temperature and soil moisture to infection by Plasmodiophora brassicae. Jour.Agr.Res.28:549-562. 1924. (G-425.)

Montlaur, A. de. Note on the use of alkaline polysulphides for the mildew. [Translated from Bulletin de la Société centrale d'agriculture... Herault, 1886.] (In Scribner, F.L. Report on the fungus diseases of the grape vine) Bot.Div.(Sect.Veg.Path.) Bul.2:67-70. 1886.

Moore, W., and Willaman, J.J. Studies in greenhouse fumigation with hydrocyanic acid: physiological effects on the plant. Jour.Agr.Res. 11:319-338. 1917. (Minn.-21)

Morris, H.E. Arsenical injury through the bark of fruit trees. See Swingle, D.B.

---------- and Nutting, G.B. Identification of certain species of Fusarium isolated from potato tubers in Montana. Jour.Agr.Res.24: 339-364. 1923. (Mont.-10)

---------- Injury to foliage by arsenical spray mixtures. See Swingle, D.B.

Morse, W.J. Studies upon the blackleg disease of the potato, with special reference to the relationship of the causal organisms. Jour. Agr. Res. 8:79-126. 1917. (Me.-9)

Moss, E.G. The control of tobacco wilt in the flue-cured district. See Garner, W.W.

---------- Sand drown, a chlorosis of tobacco due to magnesium dificiency, and the relation of sulphates and chlorids of potassium to the disease. See Garner, W.W.

Müntz, E. Treatment of mildew by sulphate of copper. [Translated from] Journal d'agriculture pratique, Nov.12,1885. (In Scribner,F.L. Report on the fungus diseases of the grape vine.) Bot.Div.(Sect.Veg.Path.) Bul.2:92-93. 1886.

Munson, T.V. Experiments at Denison, Tex. (In Scribner, F.L. Report on experiments made in 1887 in treatment of downy mildew and black-rot of the grape vine) Bot.Div.(Sect.Veg.Path.) Bul.5:23-28. 1888.

Murray, T.J. Angular-leafspot of tobacco [Bacterium angulatum n.sp.], an undescribed bacterial disease. See Fromme, F.D.

Neal, D.C. Overwintering of the citrous-canker organism in the bark tissue of hardy citrus hybrids. See Peltier, G.L.

---------- The root-knot disease of the peach, orange, and other plants in Florida, due to the work of Angiullula... Div.Ent.Bul.20, 31 p. 1889.

Neifert, I.E., and Garrison, G.L. Experiments on the toxic action of certain gases on insects, seeds, and fungi. Dept. Bul.893, 16 p. 1920.

Newcomer, E.J. Controlling important fungous and insect enemies of the pear in the humid sections of the Pacific Northwest. See Fisher,D.F.

Noble, R.J. Studies on the parasitism of Urocystis tritici Koern., the organism causing flag smut of wheat Jour.Agr.Res.27:451-490. 1924. (G-371)

Norton, J.B. Methods used in breeding asparagus for rust resistance. Bur. Plant Indus. Bul.263, 60 p. 1913.

Nutting, G.B. Identification of certain species of Fusarium isolated from potato tubers in Montana. See Morris, H.E.

Orton, C.R. Investigations of potato wart. See Weiss, F.A.
---------- Potato wart. See Lyman, G.R.
Orton, W.A., and Gilbert, W.W. The control of cotton wilt and root-knot. Bur. Plant Indus. Circ. 92, 19 p. 1912.
---------- and Chittenden, F.H. Control of diseases and insect enemies of the home vegetable garden. Farm. Bul.856, 72 p. 1917.
---------- The control of the codling moth and apple scab. See Marlatt, C.L.
---------- Cotton wilt. Farm. Bul.333, 24 p. 1908.
---------- A cowpea resistant to root knot (Heterodera radicicola). See Webber, H.J.
---------- Crop rotation in the southern states as influenced by plant diseases. (In Proc.17th Ann. Conv. Assoc. Amer. Agr.Col.& Exp. Sta. 1903.) Off. Exp. Sta. Bul.142:160-166. 1904.
---------- The danger of using foreign potatoes for seed. See Stuart, W.
---------- The development of farm crops resistant to disease. Yearbook. 1908: 453-464. 1909.
---------- and Meier, F.C. Diseases of watermelons. Farm.Bul. 1277, 31 p. 1922.
---------- Increasing the potato crop by spraying. See Chittenden,F.H.
---------- and Rand, F.V. Pecan rosette. Jour. Agr. Res. 3: 149-174. 1914. (G-36)
---------- Plant diseases in the United States in 1901-1908. Yearbook 1901:668-672; 1902: 714-719; 1903:550-555; 1904:581-586; 1905: 602-611; 1906:499-508; 1907: 577-589(With A.Ames); 1908:533-538 (With A.Ames). 1902-1909.
---------- Potato diseases in San Joaquin County, California. Bur. Plant Indus. Circ. 23, 14 p. 1909.
---------- Potato leaf-roll. (Miscellaneous papers. II.) Bur. Plant Indus. Circ.109: 7-10. 1913.
---------- The potato quarantine and the American potato industry. Dept. Bul.81, 20 p. 1914.
---------- Potato wilt, leaf-roll, and related diseases. Dept. Bul. 64, 48 p. 1914.
---------- and Link, G.K.K. Powdery dry rot of potato (Fusarium). Bur. Plant Indus., Cotton, Truck & For. Crop Dis. Inves. Circ.1, 4 p. 1918.
---------- Powdery dry-rot of the potato. (Miscellaneous papers. III.) Bur. Plant Indus. Circ.110: 13-15. 1913.
---------- Selection and treatment of seed potatoes to avoid diseases. Bur. Plant Indus., Cotton, Truck & For. Crop Dis. Inves. Circ.3, 8 p. 1918.
---------- Spraying for cucumber and melon diseases. Farm. Bul. 231, 24 p. 1905.
---------- Tomato diseases. (In Insect enemies and diseases of the tomato.) States Rel. Serv. Doc. 95 (A-100): 9-18. 1919. (Also Dept. Circ.40: 9-18. 1919)
---------- and Field, E.C. Wart disease of the potato; a dangerous European disease liable to be introduced into the United States. Bur. Plant Indus. Circ.32, 11 p. 1910.

Orton, W.A. Watermelon diseases. Farm. Bul.821, 18 p. 1917.
---------- The wilt disease of cotton and its control. Div. Veg. Physiol. & Path. Bul. 27, 16 p. 1900.
---------- The wilt disease of the cowpea and its control. (Some diseases of the cowpea. I.) Bur.Plant Indus. Bul.17:3-22. 1902.
Osner, G.A. Stemphylium leafspot of cucumbers. Jour. Agr. Res. 13: 295-306. 1918. (Ind.-3)
Owens, C.E. Specialized varieties of Puccinia glumarum, and hosts for variety tritici. See Hungerford, C.W.
Parker, J.H. Can biologic forms of stemrust on wheat change rapidly enough to interfere with breeding for rust resistance? See Stakman, E.C.
---------- Genetics of rust resistance in crosses of varieties of Triticum vulgare with varieties of T. durum and T. dicoccum. See Hayes, H.K.
---------- Greenhouse experiments on the rust resistance of oat varieties. Dept. Bul.629, 16 p. 1918.
---------- Rust resistance in winter-wheat varieties. See Melchers, L.E.
Patterson, F.W. A collection of economic and other fungi prepared for distribution. Bur. Plant Indus. Bul.8, 31 p. 1902.
---------- Diseases of roses. (In Mulford, F. L. Roses for the home) Farm. Bul.750: 32-35. 1916.
---------- and others. A list of fungi (Ustilaginales and Uredinales) prepared for exchange. Dept. Circ. 195, 50 p. 1922.
---------- and others. Some fungous diseases of economic importance. I. Miscellaneous diseases. II. Pineapple rot caused by Thielaviopsis paradoxa. Bur. Plant Indus. Bul.171, 41 p. 1910.
Pearson, A.W. Experiments at Vineland, N.J. (In Scribner, F.L. Report on experiments made in 1887-1888 in treatment of downy mildew and black-rot of the grape vine) Bot.Div.(Sect.Veg.Path.) Bul.5: 17-22, 1888; 10: 13-19, 1889.
---------- Remarks on grape rot and mildew. (In Scribner, F.L. Report on the fungus diseases of the grape vine) Bot.Div. (Sect. Veg.Path.) Bul.2:54-63. 1886.
---------- [Report of experiments in the treatment of the fungous diseases of plants]. (In Galloway, B.T. Report on the experiments made in 1889 in treatment of fungous diseases of plants). Bot.Div. (Sect.Veg.Path.) Bul.11:41-49. 1890.
Peltier, G.L., and Frederich, W.J. Further studies on the relative susceptibility to citrus canker of different species and hybrids of the genus Citrus, including the wild relatives. Jour.Agr.Res. 28: 227-239. 1924. (Ala.-9)
---------- Influence of temperature and humidity on the growth of Pseudomonas citri and its host plants and on infection and development of the disease. Jour.Agr.Res. 20:447-506. 1920. (Ala.-7)
---------- and Neal, D.C. Overwintering of the citrous-canker organism in the bark tissue of hardy citrus hybrids. Jour. Agr. Res. 14:523-524. 1918. (Ala.-5)
---------- and Frederich, W.J. Relation of environmental factors to citrus scab caused by Cladosporium citri Massee. Jour.Agr.Res. 28: 241-254. 1924. (Ala.-10)

Peltier, G.L., and Frederich, W.J. Relative susceptibility of citrus fruits and hybrids to Cladosporium citri Massee. Jour.Agr.Res.24: 955-959. 1923. (Ala.-8)
---------- and Frederich, W.J. Relative susceptibility to citrus-canker of different species and hybrids of the genus Citrus, including the wild relatives. Jour.Agr.Res.19:339-362. 1920. (Ala.-6)
---------- Susceptibility and resistance to citrus-canker of the wild relatives, citrus fruits, and hybrids of the genus Citrus. (Preliminary paper). Jour.Agr.Res. 14: 337-358. 1918. (Ala.-4)
Perrey, A. On the destruction of mildew by sulphate of copper. [Translated from] Comptes Rendus Acad. Sci. Paris, Oct.5,1885. (In Scribner,F.L. Report on the fungus diseases of the grape vine) Bot. Div. (Sect.Veg.Path.) Bul.2:89-91. 1886.
Phillips, C.E. Corn rootrot studies. See Manns, T.F.
Piemeisel, F.J. Biologic forms of Puccinia graminis on cereals and grasses. See Stakman, E.C.
---------- Can biologic forms of stemrust on wheat change rapidly enough to interfere with breeding for rust resistance? See Stakman,E.C.
---------- Infection of timothy by Puccinia graminis. See Stakman, E.C.
---------- Plasticity of biologic forms of Puccinia graminis. See Stakman, E.C.
Pierce, L. Apple bitter-rot and its control. See Roberts, J.W.
---------- Control of cherry leaf-spot. See Roberts, J.W.
Pierce, N.B. California vine disease; a preliminary report of investigations. Div.Veg.Path.Bul.2, 222 p. 1892.
---------- Grape diseases of the Pacific coast. Farm. Bul.30, 15 p. 1895.
---------- Peach leaf curl: its nature and treatment. Div.Veg. Physiol. & Path. Bul.20, 204 p. 1900.
Pierce, R.G. Laws affecting currants and gooseberries. Synopsis of laws and quarantine regulations of the various states and of the United States and Canada bearing on the control of the white-pine blister rust..... See Martin, J.F.
---------- A nursery blight of cedars. See Hahn, G.G.
Pike, N. The grape disease in Europe. Comr. Patents Rep. Agr. 1853: 311-313. 1854. (With comment by D.J.Browne)
Piper, C.V. Orchard enemies in the Pacific Northwest. Farm.Bul.153, 39 p. 1902.
Pool, V.W., and McKay, M.B. Climatic conditions as related to Cercospora beticola. Jour.Agr.Res. 6: 21-60. 1916. (G-75)
---------- and McKay, M.B. The control of the sugar-beet leaf-spot. (Miscellaneous papers. II.) Bur. Plant Indus. Circ.121: 29-30. 1913.
---------- and McKay, M.B. Phoma betae on the leaves of the sugar beet. Jour. Agr. Res. 4: 169-178. 1915. (G-47)
---------- and McKay, M.B. Relation of stomatal movement to infection by Cercospora beticola. Jour. Agr. Res. 5: 1011-1038. 1916. (G-74)
Popenoe, C.H. Diseases and insects of garden vegetables. See Gilbert, W.W.
---------- Diseases and insects of the home garden. See Gilbert, W.W.
Porte, W.S. Collar-rot of tomato. See Pritchard, F.J.

Porte, W.S. The control of tomato leaf-spot. See Pritchard, F.J.
---------- Relation of horse nettle (Solanum carolinense) to leafspot of tomato (Septoria lycopersici). See Pritchard, F.J.
---------- Watery-rot of tomato fruits. A physiological form of Oospora lactis; effect on the host; penetration of the cell-walls by enzymic action. See Pritchard, F.J.
Posey, G.B. Gipsy-moth larvae as agents in the dissemination of the white-pine blister rust. See Gravatt, G.F.
---------- and Ford, E.R. Survey of blister rust infection on pines at Kittery Point, Maine, and the effect of Ribes eradication in controlling the disease. Jour.Agr.Res.28: 1253-1258. 1924. (G-445)
---------- Treatment of ornamental white pines infected with blister rust. See Martin, J.F.
---------- and Boyce, J.S. White-pine blister rust in the western United States. Dept. Circ.226, 7 p. 1922.
Potter, A.A. Cereal smuts and disinfection of seed grain. See Humphrey, H.B.
---------- Head smut of sorghum and maize. Jour. Agr. Res. 2: 339-372. 1914. (G-29)
Powell, G.H., and others. The decay of oranges while in transit from California. Bur. Plant Indus. Bul.123, 79 p. 1908.
Pratt, O.A. Control of the powdery dryrot of western potatoes caused by Fusarium trichothecioides. Jour. Agr. Res. 6: 817-832. 1916. (G-92)
--------- Experiments with clean seed potatoes on new land in southern Idaho. (Preliminary paper) Jour. Agr. Res. 6: 573-575. 1916. (G-86)
---------- Soil fungi in relation to diseases of the Irish potato in southern Idaho. Jour. Agr. Res. 13: 73-99. 1918. (G-139)
---------- A western fieldrot of the Irish potato tuber caused by Fusarium radicicola. Jour. Agr. Res. 6: 297-310. 1916. (G-80)
Prillieux, E.E. Report on the treatment of mildew in Médoc. [Translated from Bulletin de la Société centrale d'agriculture... Hérault, 1886.] (In Scribner, F.L. Report on the fungus diseases of the grape vine.) Bot. Div. (Sect.Veg.Path.) Bul.2: 83-88. 1886.
---------- Results of experiments in the treatment of black rot made at Aiguillon, France, in 1888. (In Scribner, F.L. Report on experiments made in 1888 in treatment of downy mildew and black rot of the grape vine.) Bot. Div. (Sect.Veg.Path.) Bul.10: 49-55. 1889.
Pritchard, F.J., and Porte, W.S. Collar-rot of tomato. Jour. Agr. Res. 21: 179-184. 1921. (G-227)
---------- and Porte, W.S. The control of tomato leaf-spot. Dept. Bul.1288, 18 p. 1924.
---------- Development of wilt-resistant tomatoes. Dept. Bul.1015, 18 p. 1922.
---------- and Porte, W.S. Relation of horse nettle (Solanum carolinense) to leafspot of tomato (Septoria lycopersici). Jour. Agr. Res. 21: 501-505. 1921. (G-235)
---------- and Porte, W.S. Watery-rot of tomato fruits. A physiological form of Oospora lactis; effect on the host; penetration of the cell-walls by enzymic action. Jour.Agr.Res.24: 895-906. 1923. (G-312)
Quaintance, A.L. Control of the brown-rot and plum curculio on peaches. See Scott, W.M.

Quaintance, A.L., and Shear, C.L. Insect and fungous enemies of the grape. Farm. Bul.1220, 75 p. 1921
---------- and Shear, C.L. Insect and fungous enemies of the grape east of the Rocky Mountains. Farm. Bul.284, 48 p. 1907.
---------- and Scott, W.M. The more important insect and fungus enemies of the fruit and foliage of the apple. Farm. Bul.492, 48 p. 1912.
---------- Poisonous metals on sprayed fruits and vegetables. See Lynch, W.D.
---------- Spraying for apple diseases and the codling moth in the Ozarks. See Scott, W.M.
---------- Spraying peaches for the control of brown-rot, scab, and curculio. See Scott, W.M.
Ramsey, G.B. A form of potato disease produced by Rhizoctonia. Jour. Agr. Res. 9: 421-426. 1917. (Me.-10)
---------- Influence of temperature and precipitation on the black-leg of potato. See Rosenbaum, J.
Ramsey, H.J., and Markell, E.L. The handling and precooling of Florida lettuce and celery. Dept. Bul.601, 29 p. 1917.
---------- and others. The handling and storage of apples in the Pacific Northwest. Dept. Bul.587, 31 p. 1917.
Rand, F.V., and Enlows, E.M.A. Bacterial wilt of cucurbits. Dept. Bul. 828, 43 p. 1920.
---------- Dissemination of bacterial wilt of cucurbits. (Preliminary note) Jour. Agr. Res. 5: 257-260. 1915. (G-64)
---------- Leafspot-rot of pond lilies caused by Helicosporium nymphaearum. Jour. Agr. Res. 8: 219-232. 1917. (G-105)
---------- Pecan rosette. See Orton, W.A.
---------- Pecan rosette: its histology, cytology, and relation to other chlorotic diseases. Dept. Bul. 1038, 42 p. 1922.
---------- Some diseases of pecans. Jour. Agr. Res. 1: 303-338. 1914. (G-9)
---------- and Cash, L.C. Stewart's disease of corn. Jour. Agr. Res. 21: 263-264. 1921. (G-233)
---------- and Enlows, E.M.A. Transmission of and control of bacterial wilt of cucurbits. Jour. Agr. Res. 6: 417-434. 1916. (G-83)
Rands, R.D. Snails as predisposing agents of sugar cane "root disease" in Louisiana. Jour. Agr. Res. 28: 969-970. 1924. (G-369)
---------- South American leaf disease of Para rubber. Dept. Bul. 1286, 18 p. 1924.
Reddy, C.S. Bacterial-blight of barley. See Jones, L.R.
---------- and others. Bacterial blight of rye [Bacterium translucens seculis, n.var.]. Jour. Agr. Res. 28: 1039-1040. 1924. (G-414)
---------- and Holbert, J.R. The black-bundle disease of corn. Jour. Agr. Res. 27: 177-206. 1924. (G-356)
---------- and Brentzel, W.E. Investigations of heat canker of flax. Dept. Bul.1120, 18 p. 1922.
Regan, S.A. Nematode galls as a factor in the marketing and milling of wheat. See Coleman, D.A.

Reinking, O.A. Comparative study of Phytophthora faberi on coconut and cacao in the Philippine Islands. Jour. Agr. Res. 25: 267-284. 1923. (G-324)

Rhoads, A.S. The formation and pathological anatomy of frost rings in conifers injured by late frosts. Dept. Bul.1131, 16 p. 1923.

---------- Hypertrophied lenticels on the roots of conifers and their relation to moisture and aeration. See Hahn, G.G.

---------- Seedling diseases of conifers. See Hartley, C.

Richards, B.L. A dryrot canker of sugar beets. Jour. Agr. Res. 22: 47-52. 1921. (Utah-14)

---------- Further studies on the pathogenicity of Corticium vagum on the potato as affected by soil temperature. Jour. Agr. Res.23: 761-770. 1923. (Utah-16)

---------- Pathogenicity of Corticium vagum on the potato as affected by soil temperature. Jour. Agr. Res. 21: 459-482. 1921. (Utah-13)

---------- Soil temperature as a factor affecting the pathogenicity of Corticium vagum on the pea and the bean. Jour. Agr. Res. 25: 431-450. 1923. (Utah-18)

Riker, A.J. Some morphological responses of the host tissue to the crowngall organism. Jour.Agr.Res. 26(1923): 425-436. 1924. (Wis.-25)

---------- Some relations of the crowngall organism to its host tissue. Jour. Agr. Res. 25: 119-132. 1923. (Wis.-22)

Roberts, H.F. Yellow-berry in hard winter wheat. Jour. Agr. Res. 18: 155-169. 1919. (Kans.-19)

Roberts, J.W., and Pierce, L. Apple bitter-rot and its control. Farm. Bul.938, 13 p. 1918.

---------- Apple blotch and its control. Dept. Bul.534, 11 p. 1917.

---------- A budrot of the peach caused by a species of Fusarium. Jour. Agr. Res. 26(1923): 507-512. 1924. (G-343)

---------- and Pierce, L. Control of cherry leaf-spot. Farm. Bul. 1053, 8 p. 1919.

---------- Control of peach bacterial spot in southern orchards. Dept. Bul.543, 7 p. 1917.

---------- Controlling the curculic, brown rot, and scab in the peach belt of Georgia. See Snapp, O.I.

---------- Experiments with apple leaf-spot fungi. Jour. Agr. Res. 2: 57-66. 1914. (G-17)

---------- and Dunegan, J.C. The fungus causing the common brown rot of fruits in America. Jour.Agr.Res. 28: 955-960. 1924. (G-408)

---------- The Jonathan fruit spot. See Scott, W.M.

---------- Morphological characters of Alternaria mali Roberts. Jour. Agr. Res. 27: 699-708. 1924. (G-376)

---------- Plum blotch, a disease of the Japanese plum, caused by Phyllostica congesta Heald and Wolf. Jour.Agr.Res.22:365-370. 1921.(G-253)

---------- The "rough-bark" disease of the yellow Newtown apple [Phomopsis mali, sp.nov.]. Bur. Plant Indus. Bul.280. 15 p. 1913.

---------- The sources of apple bitter-rot infections. Dept. Bul. 684, 25 p. 1918.

---------- Sources of the early infections of apple bitter-rot. Jour. Agr. Res. 4: 59-64. 1915. (G-43)

Robinson, T.R. Quarantine procedure to safeguard the introduction of citrus plants: a system of aseptic plant propagation. See Swingle, W.T.

Rolfs, P.H. Wither-tip and other diseases of citrous trees and fruits caused by Colletotrichum gloeosporioides. Bur. Plant Indus. Bul. 52, 22 p. 1904.
Rorer, J.B. Apple blotch, a serious disease of southern orchards, See Scott, W.M.
---------- Apple leaf-spot caused by Sphaeropsis malorum. See Scott, W.M.
Rose, D.H. Diseases of apples on the market. Dept. Bul.1253, 24 p. 1924.
---------- Diseases of stone fruits on the market. Farm.Bul.1435, 16 p. 1924.
---------- Leather rot of strawberries. Jour. Agr. Res. 28: 357-376. 1924. (G-394)
---------- Spraying strawberries for the control of fruit rots. See Stoddard, E.M.
---------- Two hitherto unreported diseases of stone fruits. See Lindegren, C.C.
Rosen, H.R., and Elliott, J.A. Pathogenicity of Ophiobolus cariceti in its relationship to weakened plants. Jour.Agr.Res.25: 351-358. 1923. (Ark-4)
Rosenbaum, J., and Zinnsmeister, C.L. Alternaria panax, the cause of a root-rot of ginseng. Jour.Agr.Res. 5: 181-182. 1915. (G-61)
---------- The diseases of ginseng and their control. See Whetzel, H.H.
---------- Ginseng diseases and their control. See Whetzel, H.H.
---------- and Ramsey, G.B. Influence of temperature and precipitation on the blackleg of potato. Jour. Agr. Res. 13: 507-513. 1918. (G-145)
---------- and Shapovalov, M. A new strain of Rhizoctonia solani on the potato. Jour. Agr. Res. 9: 413-420. 1917. (G-114)
---------- Pathogenicity and identity of Sclerotinia libertiana and Sclerotinia smilacina on ginseng. Jour. Agr. Res. 5: 291-298. 1915. (G-66)
---------- Spongospora subterranea and Phoma tuberosa on the Irish potato. See Melhus, I.E.
---------- Studies of the genus Phytophthora. Jour. Agr. Res.8: 233-276. 1917. (G-106)
Rudolph, B.A. Spoilage of cranberries after harvest. See Shear, C.L.
Russell, H.L. A bacterial disease of cabbage and allied plants. (In Proc. 11th Ann.Conv.Assoc.Amer.Agr.Col.& Exp.Sta. 1897.) Off. Exp. Sta. Bul.49: 86-89. 1898.
Sando, C.E. Effect of temperature on the resistance to wounding of certain small fruits and cherries. See Hawkins, L.A.
Sasscer, E.R., and Dietz, H.F. Fumigation of cattleya orchids with hydrocyanic-acid gas. Jour. Agr. Res. 15: 263-268. 1918. (O.-2)
Saunders, W. Mildew on the grape. Dept. Agr.Month.Rep.1867:330-333.
---------- Remarks on grape culture, with reference to mildew, both on the native and foreign varieties. Comr. Agr. Rep. 1861:495-506. 1862.

Schaeffer, G.C. Investigation of the potato disease. Comr. Patents Rep. Agr. 1853: 175-177. 1854.
Scholl, H. The potato epidemic of last year, or the rot and scab of the potato. See Martius, C.F.P.von
Schrenk, H. von, and Spaulding, P. The bitter rot of apples. Bur. Plant Indus. Bul.44, 54 p. 1903.
---------- The "blueing" and the "red rot" of the western yellow pine, with special reference to the Black Hills forest reserve. Bur. Plant Indus. Bul.36, 40 p. 1903.
---------- The brown rot disease of the redwood. (In The redwood. II) Bur. Forestry Bul.38: 29-31. 1903.
---------- A disease of the white ash caused by Polyporus fraxinophilus. Bur. Plant Indus. Bul.32, 18 p. 1903.
---------- and Spaulding P. Diseases of deciduous forest trees. Bur. Plant Indus. Bul. 149, 85 p. 1909.
---------- Diseases of the hardy catalpa. (In The hardy catalpa. II) Bur. Forestry Bul.37: 49-58. 1902.
---------- Fungous diseases of forest trees. Yearbook 1900: 199-210. 1901.
---------- Sap-rot and other diseases of the red gum. Bur. Plant Indus. Bul.114, 37 p. 1907.
---------- Some diseases of New England conifers: a preliminary report. Div. Veg. Physiol. & Path. Bul.25, 56 p. 1900.
---------- Two diseases of red cedar, caused by Polyporus juniperinus n.sp. and Polyporus carneus Nees. A preliminary report. Div. Veg. Physiol. & Path. Bul.21, 22 p. 1900.
---------- and Hedgcock, G.G. The wrapping of apple grafts and its relation to the crown-gall disease. (Miscellaneous papers.II) Bur. Plant Indus. Bul.100: 13-20. 1907.
Schultz, E.S., and others. Investigations on the mosaic disease of the Irish potato. (Preliminary paper) Jour. Agr. Res. 17: 247-274. 1919. (G-177)
---------- and Folsom, D. Leafroll, net-necrosis, and spindling-sprout of the Irish potato. Jour. Agr. Res. 21: 47-80. 1921. (G-222)
---------- Silver-scurf of the Irish potato caused by Spondylocladium atrovirens. Jour. Agr. Res. 6: 339-350. 1916. (G-81)
---------- Spongospora subterranea and Phoma tuberosa on the Irish potato. See Melhus, I.E.
---------- A transmissible mosaic disease of Chinese cabbage, mustard, and turnip. Jour. Agr. Res. 22: 173-178. 1921. (G-248)
---------- and Folsom, D. Transmission of the mosaic disease of Irish potatoes. Jour. Agr. Res. 19: 315-338. 1920. (G-197)
---------- and Folsom, D. Transmission, variation, and control of certain degeneration diseases of Irish potatoes. Jour. Agr. Res.25: 43-118. 1923. (G-318)
---------- Why potatoes run out. Farm.Bul.1436, 20 p. 1924.
Scofield, C.S. Cotton rootrot in the San Antonio rotations. Jour. Agr. Res. 21(3): 117-125. 1921. (G-224)
---------- Cotton rootrot spots. Jour. Agr. Res. 18: 305-310. 1919. (G-182)
---------- The nematode gallworm on potatoes and other crop plants in Nevada. Bur. Plant Indus. Circ.91, 15 p. 1912.
Scott, W.M., and Rorer, J.B. Apple blotch, a serious disease of southern orchards. Bur. Plant Indus. Bul.144, 28 p. 1909.

Scott, W.M., and Rorer, J.B. Apple leaf-spot caused by Sphaeropsis malorum. (Miscellaneous papers.V) Bur. Plant Indus. Bul.121: 47-54. 1908.
---------- The control of apple bitter-rot. Bur. Plant Indus. Bul. 93, 33 p. 1906.
---------- and Quaintance, A.L. Control of the brown-rot and plum curculio on peaches. Bur. Ent. Circ.120, 7 p. 1910.
---------- and Ayres, T.W. The control of peach brown-rot and scab. Bur. Plant Indus. Bul.174, 31 p. 1910.
---------- and Roberts, J.W. The Jonathan fruit spot. (Miscellaneous papers. [II]). Bur.Plant Indus. Circ.112: 11-16. 1913.
---------- Lime-sulphur mixtures for the summer spraying of orchards. Bur. Plant Indus. Circ. 27, 17 p. 1909.
---------- The more important insect and fungus enemies of the fruit and foliage of the apple. See Quaintance, A.L.
---------- Self-boiled lime-sulphur mixture as a promising fungicide. Bur. Plant Indus. Circ.1, 18 p. 1908.
---------- and Quaintance, A.L. Spraying for apple diseases and the codling moth in the Ozarks. Farm. Bul. 283, 42 p. 1907.
---------- and Quaintance, A.L. Spraying peaches for the control of brown-rot, scab, and curculio. Farm. Bul.440, 40 p. 1911.
---------- The substitution of lime-sulphur preparations for Bordeaux mixture in the treatment of apple diseases. Bur. Plant Indus. Circ. 54, 15 p. 1910.
Scribner, F.L., and Viala, P. Black rot (Laestadia Bidwellii). Bot. Div. (Sect.Veg.Path.) Bul.7, 29 p. 1888.
---------- Fungicides, or remedies for plant diseases. Bot. Div. (Sect.Veg.Path.) Circ.5, 10 p. 1888.
---------- Fungous diseases of plants. (In Report of the Botanist) Comr. Agr. Rep. 1885: 76-88. 1885.
---------- Report on the experiments made in 1887 in the treatment of the downy mildew and the black-rot of the grape vine. Bot. Div. (Sect.Veg.Path.) Bul.5, 113 p. 1888.
---------- and others. Report on the experiments made in 1888 in the treatment of the downy mildew and black rot of the grape vine. Bot. Div. (Sect.Veg.Path.) Bul.10, 61 p. 1889.
---------- Report on the extent, severity and treatment of the black-rot and brown-rot in northern Ohio. (In Galloway, B.T. Report on experiments made in 1889 in treatment of fungous diseases of plants.) Bot. Div. (Sect.Veg.Path.) Bul.11: 76-83. 1890.
---------- Report on the fungus diseases of the grape vine. Bot. Div. (Sect.Veg.Path.) Bul.2, 136 p. 1886.
---------- Treatment of the potato and tomato for the blight and rot. Bot. Div. (Sect.Veg.Path.) Circ.4, 3 p. 1887.
Sedgwick, T.F. Preliminary experiments with the "quick blight" of the potato. Hawaii Agr.Exp. Sta. Press Bul.3, 1 p. [1902?]
---------- The root rot of taro. Hawaii Agr. Exp. Sta. Bul.2, 21 p. 1902. (Summary in Hawaiian language, Press Bul. 4, [1903?])
Shapovalov, M., and Edson, H.A. Blackleg potato tuber-rot under irrigation. Jour. Agr. Res. 22: 81-92. 1921. (C-246)
---------- and Link, G.K.K. Control of potato-tuber diseases. Farm. Bul.1367, 38 p. 1924.

Shapovalov, M. Effect of temperature on germination and growth of the common potato-scab organism. Jour. Agr. Res. 4: 129-134. 1915. (Me.-4)
---------- A new strain of Rhizoctonia solani on the potato. See Rosenbaum, J.
---------- Parasitism of Sclerotium rolfsii on Irish potatoes. See Edson, H.A.
---------- Potato-stem lesions. See Edson, H.A.
---------- Relation of potato skinspot to powdery scab. Jour. Agr. Res. 23: 285-294. 1923. (G-273)
---------- Temperature relations of certain potato-rot and wilt-producing fungi. See Edson, H.A.
Shaw, H.B. Control of the sugar-beet nematode. Farm. Bul.772, 19 p. 1916.
---------- The curly-top of beets. Bur. Plant Indus. Bul.181, 46 p. 1910.
Shear, C.L., and others. Botryosphaeria and Physalospora on currant and apple. Jour. Agr. Res. 28: 589-598. 1924. (G-385)
---------- and others. The control of black-rot of the grape. Bur. Plant Indus. Bul.155, 42 p. 1909.
---------- and Miles, G.F. The control of Texas root-rot of cotton. (Miscellaneous papers.V.) Bur. Plant Indus. Bul.102:39-42. 1907.
---------- Cranberry diseases. Bur. Plant Indus. Bul.110, 64 p. 1907.
---------- Cranberry diseases and their control. Farm. Bul.1081, 22 p. 1920.
---------- Cranberry spraying experiments in 1905. (Miscellaneous papers.I.) Bur. Plant Indus. Bul.100:7-12. 1907.
---------- and Stevens, N.E. Cultural characters of the chestnut-blight fungus and its near relatives. (Miscellaneous papers.[I].) Bur. Plant Indus. Circ.131: 3-18. 1913.
---------- Diseases. (In Darrow, G.M. Currants and gooseberries) Farm. Bul.1024: 20-22. 1919. Rev. 1922.
---------- and others. Endothia parasitica and related species. Dept. Bul.380, 82 p. 1917.
---------- Endrot of cranberries [Fusicoccum putrefaciens, n.sp.]. Jour. Agr. Res.11: 35-42. 1917. (G-122)
---------- False blossom of the cultivated cranberry. Dept. Bul.444, 7 p. 1916.
---------- Fungous diseases of the cranberry. Farm. Bul.221, 16 p. 1905.
---------- Insect and fungous enemies of the grape. See Quaintance, A.L.
---------- Insect and fungous enemies of the grape east of the Rocky Mountains. See Quaintance, A.L.
---------- and others. Spoilage of cranberries after harvest. Dept. Bul.714, 20 p. 1918.
---------- and Wood, A.K. Studies of fungous parasites belonging to the genus Glomerella. Bur. Plant Indus. Bul.252, 105 p. 1913.
---------- and Miles, G.F. Texas root-rot of cotton: field experiments in 1907. Bur. Plant Indus. Circ.9, 7 p. 1908.

Siegler, E. A., and Jenkins, A.E. Sclerotinia carunculoides, the cause of a serious disease of the mulberry (Morus alba). Jour. Agr. Res.23: 833-836. 1923. (G-287)
Sievers, A.F. Some factors affecting the keeping qualities of American lemons. See True, R.H.
Smith, C.M. Excretions from leaves as a factor in arsenical injury to plants. Jour. Agr. Res. 26: 191-194. 1923. (E-26)
Smith, E.F. Additional evidence on the communicability of peach yellows and peach rosette. Div.Veg.Path.Bul.1, 65 p. 1891.
---------- and Bryan, M.K. Angular leaf-spot of cucumbers [Bacterium lachrymans, sp.nov.]. Jour.Agr.Res.5: 465-476. 1915. (G-68)
---------- A bacterial disease of the tomato, eggplant, and Irish potato. (Bacillus solanacearum n.sp.) Div.Veg.Physiol.& Path.Bul. 12, 28 p. 1896.
---------- and Godfrey, G.H. Bacterial wilt of castor bean (Ricinus communis L.). Jour. Agr. Res. 21: 255-262. 1921. (G-232)
---------- The black rot of the cabbage. Farm. Bul.68, 22 p. 1898.
---------- Crown-gall and sarcoma. Bur. Plant Indus. Circ. 85, 4 p. 1911.
---------- and others. Crown-gall of plants: its cause and remedy. Bur. Plant Indus. Bul.213, 215 p. 1911.
---------- Crowngall studies showing changes in plant structures due to a changed stimulus. (Preliminary paper) Jour.Agr. Res. 6: 179-182. 1916. (G-77)
---------- The cultural characters of Psuedomonas hyacinthi, Ps. campestris, Ps. phaseoli, and Ps. stewarti--four one-flagellate yellow bacteria parasitic on plants. Div.Veg.Physiol. & Path. Bul.28,153 p. 1901.
---------- and McKenney, R.E.B. A dangerous tobacco disease [blue mold] appears in the United States. Dept. Circ.174, 6 p. 1921.
---------- and Swingle, D.B. The dry rot of potatoes due to Fusarium oxysporum. Bur. Plant Indus. Bul.55, 64 p. 1904.
---------- The effect of black rot on turnips: a series of photomicrographs, accompanied by an explanatory text. Bur. Plant Indus. Bul. 29, 20 p.1903.
---------- Effect of crowngall inoculations on Bryophyllum. Jour. Agr. Res. 21: 593-598. 1921. (G-238)
---------- Experiments with fertilizers for the prevention and cure of peach yellows, 1889-92. Div. Veg. Path. Bul.4, 197 p. 1895.
---------- The Granville tobacco wilt. (Miscellaneous papers.II.) Bur. Plant Indus. Bul. 141: 17-24. 1908.
---------- Legal enactments for the restriction of plant diseases. A compilation of the laws of the United States and Canada. Div. Veg. Physiol. & Path. Bul.11, 45 p. 1896.
---------- Mechanism of tumor growth in crowngall. Jour. Agr. Res. 8: 165-188. 1917. (G-104)
---------- A new disease of wheat [Black chaff]. Jour. Agr. Res. 10: 51-54. 1917. (G-115)
---------- Peach yellows: a preliminary report. Bot.Div. (Sect. Veg. Path.) Bul.9, 254 p. 1888.
---------- Peach yellows and peach rosette. Farm. Bul.17, 20 p. 1894.

Smith, E.F., and McKenney, R.E.B. The present status of the tobacco blue-mold (Peronospora) disease in the Georgia-Florida district. Dept. Circ.181, 4 p. 1921.

---------- Recent studies of the olive-tubercle organism. (Miscellaneous papers.IV.) Bur. Plant Indus. Bul.131: 25-43. 1908.

---------- and others. The structure and development of crown gall: a plant cancer. Bur. Plant Indus. Bul. 255, 60 p. 1912.

---------- and McKenney, R.E.B. Suggestions to growers for treatment of tobacco blue-mold disease in the Georgia-Florida district. Dept. Circ.176, 4 p. 1921.

---------- Synopsis of replies to a circular relative to grape mildew and grape rot in the United States. (In Scribner, F. L. Report on the fungus diseases of the grape vine.) Bot. Div. (Sect.Veg.Path.) Bul.2: 45-53. 1886.

---------- Wakker's hyacinth germ, Pseudomonas hyacinthi (Wakker). Div. Veg. Physiol. & Path. Bul. 26, 45 p. 1901.

---------- Wilt disease of cotton, watermelon, and cowpea (Neocosmospora nov. gen.). Div. Veg. Physiol. & Path. Bul. 17, 72 p. 1899.

Smith, E.G. Report of Dr. von Martius, commissioner... for the accurate investigation of the potato disease in the Palatinate. See Martius, C.F.P. von

---------- Summary of opinions on the potato disease. See Fraas, K.N.

Smith, J. G. Two plant diseases in Hawaii. [Thielaviopsis ethaceticus on sugar cane and Cercospora coffeicola on coffee] Hawaii Agr. Exp. Sta. Press Bul. 9, 6 p. 1904.

Smith, L.B. True nature of spinach-blight and relation of insects to its transmission. See McClintock, J.A.

Snapp, O.I., and others. Controlling the curculio, brown-rot, and scab in the peach belt of Georgia. Dept. Circ.216, 30 p. 1922.

Snell, W.H. Studies of certain fungi of economic importance in the decay of building timbers, with special reference to the factors which favor their development and dissemination. Dept. Bul.1053, 47 p. 1922.

Snyder, T.E., and Zetek, J. A possible mechanical carrier of the nematode Aphelenchus cocophilus which causes "red-ring" disease of coconut palm trees. (In their Damage by termites in the Canal Zone and Panama and how to prevent it) Dept. Bul. 1232: 13-16, 19-20. 1924.

Spaulding, P. The bitter rot of apples. See Schrenk, H. von

---------- The blister rust of white pine. Bur. Plant Indus. Bul. 206, 88 p. 1911.

---------- Diseases of deciduous forest trees. See Schrenk, H. von

---------- European currant rust on the white pine in America. Bur. Plant Indus, Circ.38, 4 p. 1909.

---------- Investigations of the white-pine blister rust. Dept. Bul.957, 100 p. 1922.

---------- New facts concerning the white-pine blister rust. Dept. Bul.116, 8 p. 1914.

---------- The present status of the white-pine blights. Bur. Plant Indus. Circ. 35, 12 p. 1909.

---------- The present status of the white-pine blister rust. (Miscellaneous papers.[II].) Bur. Plant Indus. Circ.129: 9-20. 1913.

Spaulding, P. The timber rot caused by Lenzites sepiaria. Bur. Plant Indus. Bul.214, 46 p. 1911.
---------- The treatment of damping-off in coniferous seedlings. Bur. Plant Indus. Circ.4, 8 p. 1908.
---------- and Field, E.C. Two dangerous imported plant diseases. [Blister rust of white pine and wart disease of potato]. Farm. Bul. 489, 29 p. 1912.
---------- The white-pine blister rust. Farm. Bul. 742, 15 p. 1916.
Stahl, C.F., and Carsner, E. Obtaining beet leafhoppers nonvirulent as to curly-top. (Preliminary paper) Jour. Agr. Res. 14: 393-394. 1918. (K-70)
---------- Studies on curly-top disease of the sugar beet. See Carsner, E.
Stakman, E.C. Barberry eradication prevents black rust in western Europe. Dept. Circ. 269, 15 p. 1923.
---------- and Piemeisel, F.J. Biologic forms of Puccinia graminis on cereals and grasses. Jour.Agr.Res. 10: 429-436. 1917. (Minn.-19)
---------- and others. Biologic forms of Puccinia graminis on varieties of Avena spp. Jour. Agr. Res. 24: 1013-1018. 1923 (G-315)
---------- The black stem rust and the barberry. Yearbook 1918: 75-100. 1919.
---------- and others. Can biologic forms of stemrust on wheat change rapidly enough to interfere with breeding for rust resistance? Jour. Agr. Res. 14: 111-124. 1918. (Minn.-31)
---------- Destroy the common barberry. Farm.Bul.1058, 12 p. 1919. Rev. 1923.
---------- and Levine, M.N. Effect of certain ecological factors on the morphology of the urediniospores of Puccinia graminis. Jour.Agr. Res.16: 43-77. 1919. (Minn.-35)
---------- and Aamodt, O.S. The effect of fertilizers on the development of stem rust in wheat. Jour. Agr. Res. 27: 341-380. 1924. (G-354)
---------- and Jensen, L. Infection experiments with timothy rust. Jour. Agr. Res. 5: 211-216. 1915. (Minn.-6)
---------- and Piemeisel, F.J. Infection of timothy by Puccinia graminis. Jour. Agr. Res. 6: 813-816. 1916. (Minn.-10)
---------- and others. New biologic forms of Puccinia graminis. (Preliminary paper) Jour. Agr. Res. 16: 103-105. 1919. (Minn.-36)
---------- and others. Plasticity of biologic forms of Puccinia graminis. Jour. Agr. Res. 15: 221-250. 1918. (Minn.-33)
---------- and Levine, M.N. Puccinia graminis poae Erikss. and Henn. in the United States. Jour. Agr. Res. 28: 541-548. 1924. (G-388)
---------- Relation between Puccinia graminis and plants highly resistant to its attack. Jour. Agr. Res. 4: 193-200. 1915. (Minn.-4)
---------- and others. Spores in the upper air. Jour. Agr. Res.24: 599-606. 1923. (G-304)
---------- A third biologic form of Puccinia graminis on wheat. See Levine, M.N.
Stanton, T.R., and others. Markton, an oat variety immune from covered smut. Dept. Circ. 324, 8 p. 1924.

Steiner, G. On some plant parasitic nemas and related forms. Jour. Agr. Res. 28: 1059-1066. 1924. (G-470)
Stephens, D.E. Markton, an oat variety immune from covered smut. See Stanton, T.R.
Stevens, F.L. The history of the tobacco wilt in Granville County, North Carolina. (In Proc. 16th Ann.Conv.Assoc.Amer.Agr.Col. & Exp. Sta. 1903.) Off. Exp. Sta. Bul.142: 166-168. 1904.
Stevens, N.E. Botryosphaeria and Physalospora on currant and apple. See Shear, C.L.
---------- Cultural characters of the chestnut-blight fungus and its near relatives. See Shear, C.L.
---------- Endothia parasitica and related species. See Shear, C.L.
---------- and Wilcox, R.B. Further studies of the rots of strawberry fruits. Dept. Bul. 636, 14 p. 1918.
---------- and Jenkins, A.E. Occurrence of the currant cane blight fungus [Botryosphaeria ribis] on other hosts. Jour. Agr. Res. 27: 837-844. 1924. (G-376)
---------- Pathological histology of strawberries affected by species of Botrytis and Rhizopus. Jour. Agr. Res. 6: 361-366. 1916. (G-82)
---------- Physalospora malorum on currant. Jour. Agr. Res. 28: 583-588. 1924. (G-422)
---------- and Bergman, H.F. The relation of water-raking to the keeping quality of cranberries. Dept. Bul.960, 12 p. 1921.
---------- The Rhizoctonia brown rot and other fruit rots of strawberries. See Dodge, B.O.
---------- and Wilcox, R.B. Rhizopus rot of strawberries in transit. Dept. Bul.531, 22 p. 1917.
---------- Spoilage of cranberries after harvest. See Shear. C.L.
---------- Spraying strawberries for the control of fruit rots. See Stoddard, E.M.
---------- Temperatures of the cranberry regions of the United States in relation to the growth of certain fungi. Jour. Agr. Res. 11: 521-529. 1917. (G-127)
Stewart, F.C. Progress in the control of fungus and bacterial plant diseases. (In Proc. 21st Ann. Conv. Assoc. Amer. Agr. Col. & Exp. Sta. 1907.) Off. Exp. Sta. Bul. 196: 96-99. 1907.
---------- and Eustace, H.J. Syllabus of illustrated lecture on potato diseases and their treatment. Off. Exp. Sta., Farm. Inst. Lecture 2, 30 p. 1904. Rev. 1907.
Stoddard, E.M., and others. Spraying strawberries for the control of fruit rots. Dept.Circ.309, 4 p. 1924.
Stone, G.E. The relation of cultural conditions to plant diseases. (In Proc. 21st Ann. Conv. Assoc. Amer. Agr. Col. & Exp. Sta. 1907.) Off. Exp. Sta. Bul.196: 110-112. 1907.
Stuart, W., and Orton, W.A. The danger of using foreign potatoes for seed. Bur. Plant Indus. Circ. 93, 5 p. 1912.
Stubenrauch, A.V. The decay of oranges while in transit from California. See Powell, G.H.
Studhalter, R.A. Air and wind dissemination of ascospores of the chestnut-blight fungus. See Heald, F.D.

Studhalter, R.A. Birds as carriers of the chestnut-blight fungus. See Heald, F.D.

Swingle, D.B., and Morris, H.E. Arsenical injury through the bark of fruit trees. Jour. Agr. Res. 8: 283-318. 1917. (Mont.-4)

---------- The dry rot of potatoes due to Fusarium oxysporum. See Smith, E.F.

---------- Formation of the spores in the sporangia of Rhizopus nigricans and of Phycomyces nitens. Bur. Plant Indus. Bul.37, 40 p. 1903.

---------- and others. Injury to foliage by arsenical spray mixtures. Jour. Agr. Res. 24: 501-538. 1923. (Mont.-11)

Swingle, W.T. Bordeaux mixture: its chemistry, physical properties, and toxic effects on fungi and algae. Div.Veg.Physiol. & Path. Bul.9, 37 p. 1896.

---------- Danger of introducing a Central American coffee disease into Hawaii. Div. Veg. Physiol. & Path. Circ.16, 4 p. 1898.

---------- The grain smuts: how they are caused and how to prevent them. Farm. Bul.75, 20 p. 1898.

---------- The grain smuts: their causes and prevention. Yearbook 1894: 409-420. 1895.

---------- The prevention of stinking smut of wheat and loose smut of oats. Farm. Bul. 250, 16 p. 1906.

---------- and Webber, H.J. The principal diseases of citrous fruits in Florida. Div.Veg.Physiol.& Path. Bul.8, 42 p. 1896.

---------- and others. Quarantine procedure to safeguard the introduction of citrus plants: a system of aseptic plant propagation. Dept. Circ.299, 15 p. 1924.

---------- Treatment of smuts of oats and wheat. Farm. Bul.5, 8 p. 1892.

Taft, L.R. Report on experiments with remedies for the apple scab. (In Galloway, B.T. Report on experiments made in 1889 in treatment of fungous diseases of plants) Bot. Div. (Sect.Veg.Path.) Bul.11: 30-38. 1890.

Taggart, W.G. Tolerance and resistance to the sugar cane mosaic. See Edgerton, C.W.

Tapke, V.F. Effects of the modified hot-water treatment on germination, growth, and yield of wheat. Jour. Agr. Res. 28: 79-97. 1924. (G-362)

---------- Infection of barley by Ustilago nuda through seed inoculation. See Tisdale, W.H.

Taubenhaus, J.J. Pox, or pit (soil rot), of the sweet potato. Jour. Agr. Res. 13: 437-450. 1918. (Tex.-1)

---------- Recent studies on Sclerotium rolfsii Sacc. Jour. Agr. Res. 18: 127-138. 1919. (Tex.-4)

---------- Soilstain, or scurf, of the sweet potato. Jour. Agr. Res. 5: 995-1002. 1916. (Del.-1)

Taylor, G.F. Freezing injury to potatoes when undercooled. See Wright, R. C.

Taylor, T. Microscopic investigations. [Report on fungous diseases]. Dept. Agr. Month. Rep. 1872-1876. Reprinted with some additions and changes in Comr.Agr.Rep.1872-1876,

Taylor, T. Report on fungoid diseases of plants. Comr. Agr. Rep. 1871: 110-122. 1872.

Tenny, L.S., and others. The decay of Florida oranges while in transit and on the market. Bur. Plant Indus. Circ.19, 8 p. 1908.

---------- The decay of oranges while in transit from California. See Powell, G.H.

---------- A knot of citrus trees caused by Sphaeropsis tumefaciens. See Hedges, F.

Thatcher, L.E. A fungus disease suppressing expression of awns in a wheat-spelt hybrid. Jour. Agr. Res. 21: 699-700. 1921. (Ohio-3)

Thomas, C.C. Seed disinfection by formaldehyde vapor. [Preliminary report] Jour. Agr. Res. 17: 33-39. 1919. (O-3)

Thomas, H.E. Black rootrot of the apple. See Fromme, F.D.

Thompson, N.A. Brittle straw and other abnormalities in rye. See Davison, F.R.

Thompson, N.F. Chemical eradication of the common barberry. Dept. Circ.332, 4 p. 1924.

---------- Kill the common barberry with chemicals. Dept. Circ. 268, 4 p. 1923.

Thorne, G. Length of the dormancy period of the sugar-beet nematode in Utah. Dept. Circ.262, 5 p. 1923.

---------- and Giddings, L.A. The sugar-beet nematode in the western states. Farm. Bul. 1248, 16 p. 1922.

Tiller, R.J. Endothia parasitica and related species. See Shear, C.L.

Tims, E.C. A Fusarium bulb rot of onion and the relation of environment to its development. See Walker, J.C.

Tisdale, W.H. The brown-spot of corn with suggestions for its control. Farm. Bul.1124. 9 p. 1920.

---------- and others. Flag smut of wheat. Dept.Circ.273, 7 p. 1923.

---------- and Griffiths, M.A. Flag smut of wheat and its control. Farm. Bul. 1213, 6 p. 1921.

---------- Flaxwilt: a study of the nature and inheritance of wilt resistance. Jour. Agr. Res. 11: 573-606. 1917. (Wis.-8)

---------- and Tapke, V.F. Infection of barley by Ustilago nuda through seed inoculation. Jour. Agr. Res. 29(1924): 263-284. 1925. (G-430)

---------- Physoderma disease of corn. Jour. Agr. Res.16: 137-154. 1919. (G-163)

---------- Seedling blight and stack-burn of rice and the hot-water seed treatment. Dept. Bul.1116, 11 p. 1922.

---------- and Jenkins, J.M. Straighthead of rice and its control. Farm.Bul.1212, 16 p. 1921.

---------- Two Sclerotium diseases of rice. Jour. Agr. Res. 21: 649-658. 1921. (G-243)

Tisdale, W.B., and Williamson, M.M. Bacterial spot of lima bean [Bacterium viridifaciens n.sp.]. Jour. Agr. Res. 25: 141-154. 1923. (Wis.-23)

---------- Influence of soil temperature and soil moisture upon the Fusarium disease in cabbage seedlings. Jour. Agr. Res. 24: 55-86. 1923. (Wis.-20)

Townsend, C.O. Crown-gall of plants: its cause and remedy. See Smith, E.F.

---------- Curly-top, a disease of the sugar beet. Bur. Plant Indus. Bul.122, 37 p. 1908.

---------- Field studies of the crown-gall of sugar beets. Dept. Bul. 203, 8 p. 1915.

---------- Leaf-spot, a disease of the sugar beet. Farm. Bul.618, 18 p. 1914. Rev. 1922.

---------- A soft rot of the calla lily. Bur. Plant Indus. Bul.60, 47 p. 1904.

---------- Some diseases of the sugar beet. (In Progress of the beet-sugar industry in the United States in 1901) Dept. Rep. 72:90-101. 1902.

Trelease, W. The smut of timothy.--(Tilletia striaeformis, Westd.) Comr. Agr. Rep. 1885: 87-88. 1885.

---------- A spot disease of orchard grass. Scolecotrichum graminis Fckl. Comr. Agr. Rep. 1886: 129-131. 1886.

Trost, J.F. Relation of the character of the endosperm to the susceptibility of Dent corn to root rotting. Dept. Bul.1062, 7 p. 1922.

True, H.R., and others. Physiological studies of normal and blighted spinach. Jour. Agr. Res. 15: 369-408. 1918. (G-162)

True, R.H., and Sievers, A.F. Some factors affecting the keeping qualities of American lemons. Bur. Plant Indus. Circ.26, 17 p. 1909.

Tucker, C.M. A brown spot disease of rice (Helminthosporium sp.). (In his Report of the acting pathologist) Porto Rico Agr. Exp. Sta. Rep. 1922: 16-18. 1923.

Turner, W.F. Controlling the curculio, brownrot, and scab in the peach belt of Georgia. See Snapp, O.I.

Umberger, H.J.C. The smuts of sorghum. See Freeman, E.M.

Valleau, W.D. Varietal resistance of plums to brown-rot. Jour. Agr. Res. 5: 365-396. 1915. (Minn.-7)

Veihmeyer, F.J. The Mycogone disease of mushrooms and its control. Dept. Bul.127, 24 p. 1914.

---------- Some fungous diseases of economic importance. II. Pineapple rot caused by Thielaviopsis paradoxa. See Patterson, F.W.

Vergnette-Lamotte, G.E.A. de. A remedy for the mildew. [Translated from Bulletin de la Société centrale d'agriculture...Hérault, 1886] (In Scribner, F.L. Report on the fungus diseases of the grape vine.) Bot. Div. (Sect. Veg. Path.) Bul.2: 80-82. 1886.

Viala, P. Black rot (Laestadia Bidwellii). See Scribner, F.L.

Volck, W.H. Apple powdery mildew and its control in the Pajaro Valley. See Ballard, W.S.

---------- Winter spraying with solutions of nitrate of soda. See Ballard, W.S.

Waite, M.B. The cause and prevention of pear blight. Yearbook 1895: 295-300. 1896.

---------- Experiments on the apple with some new and little-known fungicides. Bur. Plant Indus. Circ. 58, 19 p. 1910.

---------- Fruit trees frozen in 1904. (Miscellaneous papers.III.) Bur. Plant Indus. Bul.51: 15-19. 1905.

---------- Fungicides and their use in preventing diseases of fruits. Farm. Bul.243, 32 p. 1906.

Waite, M.B. Poisonous metals on sprayed fruits and vegetables. See Lynch, W.D.

Walker, J.C. Cabbage diseases. See Harter, L.L.

---------- Cabbage-seed treatment. Dept. Circ.311, 4 p. 1924.

---------- Disease resistance to onion smudge. Jour. Agr. Res. 24:1019-1040. 1923. (G-316)

Walker, J.C., and Lindegren, C.C. Further studies on the relation of onion scale pigmentation to disease resistance. Jour. Agr. Res. 29(1924): 507-514. 1925. (G-438)

---------- and Tims, E.C. A Fusarium bulb rot of onion and the relation of environment to its development. Jour. Agr. Res. 28: 683-694. 1924. (G-381)

---------- Onion diseases and their control. Farm. Bul. 1060,28 p. 1919. Rev. 1922.

---------- Onion smudge. Jour. Agr. Res. 20: 685-722. 1921. (G-218)

---------- and Jones, L.R. Relation of soil temperature and other factors to onion smut infection. Jour. Agr. Res. 22: 235-262. 1921. (G-250)

---------- Seed treatment and rainfall in relation to the control of cabbage black-leg. Dept. Bul. 1029, 27 p. 1922.

Wallace, E., and Evans, L.H. Commercial Bordeaux mixtures. Farm. Bul. 994, 11 p. 1918.

Watts, L.F. A chlorosis of conifers corrected by spraying with ferrous sulphate. See Korstian, C.F.

Webb, R.W. The intracellular bodies associated with the rosette disease and a mosaiclike leaf mottling of wheat. See McKinney, H.H.

---------- and others. Varietal resistance in winter wheat to the rosette disease. Jour. Agr. Res. 26: 261-270. 1923. (G-334)

Webber, H.J., and Orton, W.A. A cowpea resistant to root knot (Heterodera radicicola). (Some diseases of the cowpea. II.) Bur. Plant Indus. Bul.17: 23-33. 1902.

---------- Fertilization of the soil as affecting the orange in health and disease. Yearbook 1894: 193-202. 1895.

---------- The principal diseases of citrous fruits in Florida. See Swingle, W.T.

---------- Root knot of the cowpea. (In Proc. 15th Ann. Conv. Assoc. Amer. Agr. Col. & Exp. Sta. 1901) Off. Exp. Sta. Bul.115: 113-114. 1902.

---------- Sooty mold of the orange and its treatment. Div. Veg. Physiol. & Path. Bul.13, 44 p. 1897.

---------- Treatment for sooty mold of the orange. Div. Veg. Path. Circ.15, 4 p. 1895.

---------- The two freezes of 1894-95 in Florida, and what they teach. Yearbook 1895: 159-174. 1896.

Weimer, J.L. A comparison of the pectinase produced by different species of Rhizopus. See Harter, L.L.

Weimer, J.L., and Harter, L.L. Glucose as a source of carbon for certain sweet potato storage-rot fungi. Jour.Agr. Res. 21: 189-210. 1921. (G-229)

---------- and Harter, L.L. Hydrogen-ion changes induced by species of Rhizopus and by Botrytis cinerea. Jour. Agr. Res. 25: 155-164. 1923. (G-320)

---------- Influence of the substrate and its hydrogen-ion concentration on pectinase production. See Harter, L.L.

---------- Reduction in the strength of the mercuric-chlorid solution used for disinfecting sweet potatoes. Jour. Agr. Res. 21: 575-587. 1921. (G-236)

---------- and Harter, L.L. Respiration and carbohydrate changes produced in sweet potatoes by Rhizopus tritici. Jour. Agr. Res. 21: 627-635. 1921. (G-241)

---------- Respiration of sweet potato storage-rot fungi when grown on a nutrient solution. See Harter, L.L.

---------- Some physiological variations in strains of Rhizopus nigricans. See Harter, L.L.

---------- Studies in the physiology of parasitism with special reference to the secretion of pectinase by Rhizopus tritici. See Harter, L.L.

---------- Susceptibility of the different varieties of sweet potatoes to decay by Rhizopus nigricans and Rhizopus tritici. See Harter, L.L.

---------- Sweet-potato storage-rots. See Harter, L.L.

---------- and Harter, L.L. Temperature relations of eleven species of Rhizopus. Jour. Agr. Res. 24: 1-40. 1923. (G-294)

---------- Two diseases of udo (Aralia cordata Thunb.). Jour. Agr. Res. 26: 271-278. 1923. (G-335)

---------- and Harter, L.L. Wound-cork formation in the sweet potato. Jour. Agr. Res. 21: 637-647. 1921. (G-242)

Weir, J.R. Effects of mistletoe on young conifers. Jour. Agr. Res. 12: 715-718. 1918. (G-138)

---------- and Hubert, E.E. Forest disease surveys. Dept. Bul. 658, 23 p. 1918.

---------- Hypoderma deformans, an undescribed needle fungus of the western yellow pine. Jour. Agr. Res. 6: 277-288. 1916. (G-79)

---------- Larch mistletoe: some economic considerations of its injurious effects. Dept. Bul.317, 27 p. 1916.

---------- Mistletoe injury to conifers in the Northwest. Dept. Bul. 360, 39 p. 1916.

---------- A needle blight of Douglas fir. Jour. Agr. Res. 10: 99-104. 1917. (G-117)

---------- A new leaf and twig disease [Herpotrichia quinqueseptata n.sp.] of Picea engelmanni. (A preliminary report) Jour. Agr. Res. 4: 251-254. 1915. (G-48)

---------- Observations on Rhizina inflata. Jour. Agr. Res. 4: 93-96. 1915. (G-44)

---------- Observations on the pathology of the jack pine. Dept. Bul. 212, 10 p. 1915.

---------- and Hubert, E.E. A serious disease in forest nurseries caused by Peridermium filamentosum. Jour. Agr. Res. 5: 781-785. 1916. (G-72)

Weir, J. R., and Hubert, E.E. A study of heart-rot in western hemlock. Dept. Bul.722, 39 p. 1918.
---------- and Hubert, E.E. A study of the rots of western white pine. Dept.Bul. 799, 24 p. 1919.
---------- Two new wood-destroying fungi [Fomes putearius; Tramates setosus]. Jour. Agr. Res. 2: 163-165. 1914. (G-22)
---------- Wallrothiella arceuthobii. Jour. Agr. Res. 4: 369-378. 1915. (G-51)
Weiss, F.A., and Harvey, R.B. Catalase, hydrogen-ion concentration, and growth in the potato wart disease. Jour. Agr. Res. 21: 589-592. 1921. (G-237)
---------- The effect of rust infection upon the water requirement of wheat. Jour. Agr. Res. 27: 107-118. 1924. (G-351)
----------and others. Investigations of potato wart. Dept. Bul. 1156, 22 p. 1923.
West, F. L., and Edlefsen, N.E. Freezing of fruit buds. Jour. Agr. Res. 20: 655-662. 1921. (Utah-12)
Weston, W.H. Another conidial Sclerospora of Philippine Maize [Sclerospora spontanea n.sp.]. Jour. Agr. Res. 20: 669-684. 1921. (G-217)
---------- A method of treating maize seed to destroy adherent spores of downy mildew. Jour. Agr. Res. 24: 853-860. 1923. (G-309)
---------- Nocturnal production of conidia by Sclerospora graminicola. Jour. Agr. Res. 27: 771-784. 1924. (G-353)
---------- The occurrence of wheat downy mildew in the United States. Dept. Circ.186, 6 p. 1921.
---------- Philippine downy mildew of maize. Jour. Agr. Res.19: 97-122. 1920. (G-189)
---------- Production and dispersal of conidia in the Philippine Sclerosporas of maize. Jour. Agr. Res. 23: 239-278. 1923. (G-271)
---------- Report on the plant disease situation in Guam. Guam Agr. Exp. Sta. Rep. 1917: 45-62. 1918.
Whetzel, H.H., and Rosenbaum, J. The diseases of ginseng and their control. Bur. Plant Indus Bul.250, 44 p. 1912.
---------- and others. Ginseng diseases and their control. Farm. Bul.736, 23 p. 1916.
White, H.M. The decay of Florida oranges while in transit and on the market. See Tenny, L.S.
---------- The decay of oranges while in transit from California. See Powell, G.H.
Wilcox, M.S. Botryosphaeria and Physalospora on currant and apple. See Shear, C.L.
Wilcox, R.B. Eastern blue-stem of the black raspberry. Dept. Circ. 227, 12 p. 1922.
---------- Further studies of the rots of strawberry fruits. See Stevens, N.E.
---------- Rhizopus rot of strawberries in transit. See Stevens,N.E.
---------- Spoilage of cranberries after harvest. See Shear, C.L.
Willaman, J.J. Studies in greenhouse fumigation with hydrocyanic acid: physiological effects on the plant. See Moore, W.
Williamson, M.M. Bacterial leafspot of clovers. See Jones, L.R.

Williamson, M.M. Bacterial spot of lima bean. See Tisdale, W.B.
Willis, L.G., and Carrero, J.O. Influence of some nitrogenous fertilizers on the development of chlorosis in rice. Jour. Agr. Res. 24: 621-640. 1923. (B-18)
Wineland, G.O. An ascigerous stage and synonomy for Fusarium moniliforme. Jour. Agr. Res. 28: 909-922. 1924. (G-455)
Wingard, S.A. Varietal susceptibility of beans to rust. See Fromme, F.D.
Winkler, A.J. A study of the internal browning of the yellow Newtown apple. Jour. Agr. Res. 24: 165-184. 1923. (Calif.-32)
Winston, J.R., and others. Bordeaux-oil emulsion. Dept. Bul.1178, 24 p. 1923.
---------- Citrus scab: its cause and control. Dept. Bul.1118, 39 p. 1923.
---------- and Bowman, J.J. Commercial control of citrus melanose. Dept. Circ.259, 8 p. 1923.
---------- Commercial control of citrus scab. Dept. Circ.215, 8 p. 1922.
---------- and others. Commercial control of citrus stem-end rot. Dept. Circ.293, 10 p. 1923.
---------- and Fulton, H.R. The field testing of copper-spray coatings. Dept. Bul.785, 9 p. 1919.
---------- Mixing emulsified mineral lubricating oils with deep-well waters and lime-sulphur solutions. See Yothers, W.W.
---------- Tear-strain of citrus fruits. Dept. Bul.924, 12 p. 1921.
Woglum, R.S. Fumigation of citrus plants with hydrocyanic acid; conditions influencing injury. Dept. Bul. 907, 43 p. 1920.
---------- Fumigation of citrus trees. (In Hydrocyanic-acid gas fumigation in California) Bur. Ent. Bul.90: 1-81. 1912.
Wolf, F.A. Bacterial leafspot of clovers. See Jones, L.R.
---------- Bacterial pustule of soybean. Jour. Agr. Res.29(1924): 57-68. 1925. (N.C.-18)
---------- Citrus canker. Jour. Agr. Res. 6: 69-100. 1916. (Ala.-2)
---------- The control of tobacco wilt in the flue-cured district. See Garner, W.W.
---------- Further studies on peanut leafspot. Jour. Agr. Res. 5: 891-902. 1916. (Ala.-1)
---------- Intumescences, with a note on mechanical injury as a cause of their development. Jour. Agr. Res. 13: 253-260. 1918. (N.C.-10)
---------- A plant-disease survey in the vicinity of San Antonio, Texas. See Heald, F.D.
---------- A squash disease caused by Choanephora cucurbitarum. Jour. Agr. Res. 8: 319-328. 1917. (N.C.-3)
---------- and Foster, A.C. Tobacco wildfire. Jour. Agr. Res. 12: 449-458. 1918. (N.C.-9)
---------- and Cromwell, R.O. Xylaria rootrot of apple. Jour. Agr. Res. 9: 269-276. 1917. (N.C.-5)
Wollenweber, H.W. Identification of species of Fusarium occurring on the sweet potato, Ipomoea batatas. Jour. Agr. Res. 2: 251-286. 1914. (G-25)

Wood, A.K. Studies of fungous parasites belonging to the genus Glomerell See Shear, C.L.

Woods, A.F. The Bermuda lily disease; a preliminary report of investigations. Div. Veg. Physiol. & Path. Bul.14, 15 p. 1897.

---------- Diseases of shade and ornamental trees. See Galloway, B.T.

---------- Observations on the mosaic disease of tobacco. Bur. Plant Indus. Bul.18, 24 p. 1902.

---------- Plant physiology in relation to horticulture and agriculture: Pathology. (In Proc. 14th Ann. Conv. Assoc. Amer. Agr. Col. & Exp. Sta. 1900.) Off. Exp. Sta. Bul.99: 129-130. 1901.

---------- The relation of nutrition to the health of plants. Yearbook 1901: 155-176. 1902.

---------- Work in vegetable physiology and pathology. Yearbook 1898: 261-266. 1899.

Woolman, H.M., and Humphrey, H.B. Studies in the physiology and control of bunt, or stinking smut, of wheat. Dept. Bul.1239, 30 p. 1924.

---------- and Humphrey, H.B. Summary of literature on bunt, or stinking smut, of wheat. Dept. Bul.1210, 44 p. 1924.

Wright, R.C. Freezing injury of apples. See Diehl, H.C.

---------- and Taylor, G.F. Freezing injury to potatoes when undercooled. Dept. Bul.916, 15 p. 1921.

---------- Frost injury to tomatoes. See Harvey, R.B.

Yothers, W.W. Bordeaux-oil emulsion. See Winston, J.R.

---------- and Winston, J.R. Mixing emulsified mineral lubricating oils with deep-well waters and lime-sulphur solutions. Dept. Bul. 1217, 5 p. 1924.

Young, F.D., and Cate, C.C. Damaging temperatures and orchard heating in the Rogue River Valley, Oreg. Mo. Weather Rev. 51: 617-630. 1923.

Zetek, J. A possible mechanical carrier of the nematode Aphelenchus cocophilus which causes "red-ring" disease of coconut palm trees. See Snyder, T.E.

Zinnsmeister, C.L. Alternaria panax, the cause of a root-rot of ginseng. See Rosenbaum, J.

SUBJECT INDEX

APPLE. DISEASES. (Cont.)

Scott. W.M. The substitution of lime-sulphur preparations for Bordeaux mixture in the treatment of apple diseases. Bur.Plant Indus.Circ.54, 15 p. 1920.

Scribner, F.L. Apple scab, Fusicladium dendriticum. Bitter-rot, Gloeosporium fructigenum, Berk. Comr.Agr.Res.1887:341-350. 1888.

Waite, M.B. Experiments on the apple with some new and little-known fungicides. Bur.Plant Indus.Circ.58, 19 p. 1910.

Bitter rot. Glomerella cingulata.

Curtiss, G.C. Treatment of bitter-rot of the apple. Bot.Div. (Sect.Veg.Path.) Bul.11:38-41. 1890.

Roberts, J.W., and Pierce, L. Apple bitter-rot and its control. Farm.Bul.938, 13.p. 1918.

_____ The sources of apple bitter-rot infections. Dept. Bul.684, 25 p. 1918.

_____ Sources of the early infections of apple bitter-rot. Jour.Agr.Res.4:59-64. 1915. (G-43)

Bitter rot. Glomerella rufomaculans.

Schrenk, H. von, and Spaulding, P. The bitter rot of apples. Bur.Plant Indus.Bul.44, 54 p. 1903.

Scott, W.M. The control of apple bitter-rot. Bur.Plant Indus. Bul.93, 33 p. 1906.

Black rot. Physalospora malorum.

Culpepper, C.W., and others. Some effects of the blackrot fungus, Sphaeropsis malorum, upon the chemical composition of the apple. Jour.Agr.Res.7:17-40. 1916. (Ala.-3)

Scott, W.M., and Rorer, J.B. Apple leaf-spot caused by Sphaeropsis malorum. Bur. Plant Indus.Bul.121:47-54. 1908.

Shear, C.L., and others. Botryosphaeria and Physalospora on currant and apple. Jour.Agr.Res.28:589-598. 1924. (G-385)

Blotch. See APPLE. DISEASES. Phyllosticta.

Botryosphaeria.

Shear, C.L., and others. Botryosphaeria and Physalospora on currant and apple. Jour.Agr.Res.28:589-598. 1924. (G-385)

Canker.

Coons, G.H. Factors involved in the growth and the pycnidium formation of Plenodomus fuscomaculans. Jour.Agr.Res.5:713-769. 1916. (Mich.-2)

Crown gall.

Hedgcock, G.G. The crown-gall and hairy-root diseases of the apple tree. Bur. Plant Indus.Bul.90: 15-17. 1906.

---------- Field studies of the crown-gall and hairy-root of the apple-tree. Bur. Plant Indus.Bul.186,108 p. 1910.

_____ Some stem tubers or knots on apple and quince trees. Bur.Plant Indus.Circ.3, 16 p. 1908.

Schrenk, H. von, and Hedgcock, G.G. The wrapping of apple grafts and its relation to the crown-gall disease. Bur.Plant Indus.Bul.100:13-20. 1907.

Internal browning. See APPLE. DISEASES, Physiological.

Jonathan fruit spot.

Brooks, C., and Cooley, J.S. Effect of temperature aeration and humidity on Jonathan-spot and scald of apples in storage. Jour. Agr.Res.11:287-317. 1917. (G-126)

Scott, W.M., and Roberts, J.W. The Jonathan fruit spot. Bur. Plant Indus.Circ.112:11-16. 1913.

APPLE. DISEASES. (Cont.)

Leaf spots.

Roberts, J.W. Experiments with apple leaf-spot fungi. [Alternaria mali n.sp.] Jour.Agr.Res.2:57-66. 1914. (G-17)

---------- Morphological characters of Alternaria mali Roberts. Jour.Agr.Res.27:699-708. 1924. (G-376)

See also under APPLE. DISEASES. Black rot - Phyllosticta.

Phyllosticta.

Gardner, M.W. Origin and control of apple-blotch cankers. Jour. Agr.Res.25:403-418. 1923. (Ind.-12)

Phyllosticta solitaria.

Roberts, J.W. Apple blotch and its control. Dept. Bul.534, 11 p. 1917.

Scott, W.M., and Rorer, J.B. Apple blotch, a serious disease of southern orchards. Bur. Plant Indus. Bul.144, 28 p. 1909.

Physiological.

Ballard, W.S., and others. Internal browning of the yellow Newtown apple. Dept.Bul.1104, 24 p. 1922.

Brooks, C., and Fisher, D.F. Irrigation experiments on apple-spot diseases. Jour.Agr.Res.12:109-138. 1918. (G-133)

Winkler, A.J. A study of the internal browning of the yellow Newtown apple. Jour.Agr.Res.24:165-184. 1923. (Calif.-32)

See also under APPLE. DISEASES. Jonathan fruit spot - Scald.

Powdery mildew. Podosphaera.

Ballard, W.S., and Volck, W.H. Apple powdery mildew and its control in the Pajaro Valley. Dept.Bul.120, 26 p. 1914.

Fisher, D.F. Apple powdery mildew and its control in the arid regions of the Pacific Northwest. Dept.Bul.712, 28 p. 1918.

---------- Control of apple powdery mildew. Farm.Bul.1120, 14 p. 1920.

Galloway, B.T. Experiments in the treatment of pear leaf-blight and apple powdery mildew. Sect.Veg.Path.Circ.8, 11 p. 1889.

Root rot. Xylaria. See APPLE. DISEASES. Xylaria root rot.

Rough bark.

Roberts, J.W. The "rough-bark" disease of the yellow Newtown apple. [Phomopsis mali, sp.nov.] Bur.Plant Indus.Bul.280, 15 p. 1913.

Rust.

Halsted, B.D. Apple rusts. Comr.Agr.Rep.1888:370-381. 1889.

Scab. Fusicladium dendriticum.

Galloway, B.T. Experiments in the treatment of apple scab in Wisconsin. Div.Veg.Path.Bul.3:31-36. 1892.

Goff, E.S. Notes on the treatment of apple scab. Off.Exp.Sta. Bul.16:87-88. 1893.

---------- Report on the treatment of apple scab. Bot.Div. (Sect.Veg.Path.)Bul.11:22-29. 1890.

Marlatt, C.L., and Orton, W.A. The control of the codling moth and apple scab. Farm.Bul.247, 23 p. 1906.

Taft, L.R. Report on experiments with remedies for the apple scab. Bot.Div. (Sect.Veg.Path.) Bul.11:30-38. 1890.

APPLE. DISEASES. (Cont.)

Scald.

Brooks, C., and others. Apple-scald. Jour.Agr.Res.16:195-217. 1919. (G-173)

---------- and others. Apple scald and its control. Farm.Bul. 1380, 17 p. 1923.

---------- and Cooley, J.S. Effect of temperature aeration and humidity on Jonathan-spot and scald of apples in storage. Jour. Agr.Res.11:287-317. 1917. (G-126)

---------- and others. Nature and control of apple-scald. Jour. Agr.Res.18:211-240. 1919. (G-179)

---------- and Cooley, J.S. Oiled paper and other oiled materials in the control of scald on barrel apples. Jour.Agr.Res.29(1924): 129-135. 1925. (G-412)

---------- and others. Ciled wrappers, oils and waxes in the control of apple scald. Jour.Agr.Res.26(1923):513-536. 1924. (G-344)

Storage and transportation rots.

Brooks, C., and others. Diseases of apples in storage. Farm. Bul.1160, 24 p. 1920. Rev. 1922.

--------- and Cooley, J.S. Effect of temperature aeration and humidity on Jonathan-spot and scald of apples in storage. Jour. Agr.Res.11:287-317. 1917. (G-126)

--------- and Cooley, J.S. Temperature relations of apple-rot fungi. Jour.Agr.Res.8:139-164. 1917. (G-103)

Magness, J.R., and Diehl, H.C. Physiological studies on apples in storage. Jour.Agr.Res.27:1-38. 1924. (G-347)

Ramsey, H.J., and others. The handling and storage of apples in the Pacific Northwest. Dept.Bul.587, 31 p. 1917.

Rose, D.H. Diseases of apples on the market. Dept.Bul.1253, 24 p. 1924.

See also under APPLE. DISEASES. Bitter rot - Jonathan fruit spot - Phyllosticta - Scab - Scald.

Tumor.

Brown, N.A. An apple stem-tumor not crowngall. Jour.Agr.Res. 27:695-698. 1924. (G-378)

Xylaria root rot.

Fromme, F.D., and Thomas, H.E. Black rootrot of the apple. Jour. Agr.Res.10:163-174. 1917. (Va.(Blacksburg)-1)

Wolf, F.A., and Cromwell, R.O. Xylaria rootrot of apple. Jour. Agr.Res.9:269-276. 1917. (N.C.-5)

APPLE. WEATHER INJURIES.

Diehl, H.C., and Wright, R.C. Freezing injury of apples. Jour. Agr.Res.29(1924):99-127. 1925. (G-383)

APRICOT. DISEASES.

Khazanoff, A. A new tumor of the apricot.[Monochaetia rosenwaldia Khaz. n.sp.] Jour.Agr.Res.26:45-60. 1923. (Calif.-36)

Arceuthobium (Dwarf mistletoe) See MISTLETOE. Arceuthobium.

Armillaria mellea. See CHESTNUT. DISEASES. Root rot - OAK. DISEASES. Root rot.

Aroids. See DASHEEN - TARO - YAUTIA
ARTICHOKE. DISEASES.
Botrytis cinerea.
Link, G.K.K., and Bailey, A.A. Botrytis rot of the globe artichoke. Jour.Agr.Res.29(1924):85-92. 1925. (G-403)
Ascochyta abelmoschi. See OKRA. DISEASES. Podspot.
Ascochyta clematidina. See CLEMATIS. DISEASES.
Ascochyta hortorum. See EGG PLANT. DISEASES. Phomopsis vexans.
ASH. DISEASES.
White rot.
Schrenk, H. von. A disease of the white ash caused by Polyporus fraxinophilus. Bur.Plant Indus.Bul.32, 18 p. 1903.
ASPARAGUS. DISEASES.
Handy, R.B. Asparagus culture. Fungus diseases. Farm.Bul.61: 30-34. 1897.
Rust, Puccinia asparagi.
Norton, J.B. Methods used in breeding asparagus for rust resistance. Bur.Plant Indus.Bul.263, 60 p. 1913.
AVOCADO. DISEASES.
Higgins, J.E., and others. The avocado in Hawaii. Control of diseases. Hawaii Agr.Exp.Sta.Bul.25:23-26. 1911.
Die back.
Pope, W.T. Avocado die-back. Hawaii Agr.Exp.Sta.Rep. 1921:12. 1922.
Bacillus amylovorus. See PEAR. DISEASES. Blight.
Bacillus aroideae. See CALLA LILY. DISEASES. Soft rot. Bacillus aroideae.
Bacillus atrosepticus. See POTATO. DISEASES. Black leg. Bacillus atrosepticus.
Bacillus carotovorus. See DASHEEN. DISEASES. Storage and transportation rots.
Bacillus coli. See COCO PALM. DISEASES. Bud rot. Bacillus coli.
Bacillus phytophthorus. See POTATO. DISEASES. Black leg. Bacillus phytophthorus.
Bacillus solanacearum. See POTATO, DISEASES. Brown rot. Bacterium solanacearum.
Bacillus tracheiphilus. See CUCURBITS. DISEASES. Bacterial wilt. Bacillus tracheiphilus.
BACTERIAL DISEASES OF PLANTS.
Bacterial diseases of plants. Farm.Bul.78:24-28. 1898.
Smith, E.F. The cultural characters of Psuedomonas hyacinthi, Ps. campestris, Ps. phaseoli, and Ps.stewarti - four one-flagellate yellow bacteria parasitic on plants. Div.Veg. Physiol.& Path.Bul.28,153 p. 1901.
Control. See PLANT DISEASES.
Bacterium angulatum. See TOBACCO DISEASES. Angular leaf spot.
Bacterium aptatum. See NASTURTIUM. DISEASES. - SUGAR BEET. DISEASES. Bacterium aptatum.
Bacterium atrofaciens. See WHEAT. DISEASES. Basal glumerot.
Bacterium cannae. See CANNA. DISEASES. Bud rot.

BANANA. DISEASES. (Cont.)

Wilt. Fusarium.

Brandes, E.W. Banana wilt (Panama disease). Porto Rico Agr. Exp.Sta.Rep. 1916:29-31. 1916.

Fawcett, G.L. A Porto Rican disease of bananas. Porto Rico Agr.Exp.Sta.Rep. 1915:36-41. 1916.

BARBERRY ERADICATION.

Kempton, F.E. Progress of barberry eradication. Dept.Circ. 188, 37 p. 1921.

Quarantine on account of black stem rust. (Effective May 1, 1919) Fed.Hort.Bd. Not.Quar.38, 2 p., Apr.15, 1919. Amendment 1 (Effective Jan.1, 1923), 1 p., Dec.26, 1922. Reprinted in S.R.A. Apr. 1919, Jul./Dec.1922.

Stakman, E.C. Barberry eradication prevents black rust in western Europe. Dept.Circ.269, 15 p. 1923.

_____ The black stem rust and the barberry. Yearbook 1918:75-100. 1919.

_____ Destroy the common barberry. Farm.Bul.1058, 12 p. 1919. Rev. 1923.

Thompson, N.F. Chemical eradication of the common barberry. Dept.Circ.332, 4 p. 1924.

_____ Kill the common barberry with chemicals. Dept. Circ.268, 4 p. 1923.

BARLEY. DISEASES.

Derr, H.B. Barley: growing the crop. Diseases. Farm.Bul.443: 42-44. 1911.

See also CEREALS. DISEASES.

Bacterial blight.

Jones, L.R., and others. Bacterial-blight of barley. [Bacterium translucens n.sp.] Jour.Agr.Res.11:625-644. 1917. (Wis.-9)

Helminthosporium sativum.

McKinney, H.H. Influence of soil temperature and moisture on infection of wheat seedlings by Helminthosporium sativum. Jour. Agr.Res. 26:195-218. 1923. (G-333)

Rust. Puccinia anomala.

Mains, E.B., and Jackson, H.S. Aecial stages of the leaf rusts of rye, Puccinia dispersa Erikss and Henn., and of barley, P. anomala Rostr., in the United States. Jour.Agr.Res.28:1119-1126. 1924. (G-415)

Smut.

Freeman, E.M., and Johnson, E.C. The loose smuts of barley and wheat. Bur.Plant Indus. Bul.152, 48 p. 1909.

Smut. Ustilago hordei.

Harlan, H.V. Cultivation and utilization of barley. Diseases. Farm.Bul.968:35-37. 1918.

Smut. Ustilago nuda.

Freeman, E.M., and Johnson, E.C. The loose smuts of barley and wheat. Bur.Plant Indus.Bul.152, 48 p. 1909.

Tisdale, W.H., and Tapke, V.F. Infection of barley by Ustilago nuda through seed inoculation. Jour.Agr.Res.29(1924): 263-284. 1925. (G-430)

See also CEREALS. DISEASES Smut.

Take-all. Legislation. See CEREALS. DISEASES. Take-all. Legislation.

Botryosphaeria marconii. See HEMP. DISEASES.
Botryosphaeria ribis. See APPLE. DISEASES. BOTRYOSPHAERIA - CURRANT. DISEASES. Cane blight - HORSE CHESTNUT. DISEASES. Botryosphaeria ribis - ROSE. DISEASES. Botryosphaeria ribis.
Botrytis diseases. See CHRYSANTHEMUM. DISEASES. Botrytis - PEACH. DISEASES. Botrytis - PEONY. DISEASES. Botrytis - STRAWBERRY. DISEASES.
Botrytis cinerea. See ARTICHOKE. DISEASES. Botrytis cinerea.
Botrytis parasitica. See BULBS. DISEASES.
BOX ELDER. DISEASES.
Fusarium negundi.
Hubert, E.E. The red stain in the wood of boxelder. Jour.Agr. Res.26(1923):447-457. 1924. (G-341)
Brassica. Diseases. See CABBAGE - CAULIFLOWER - MUSTARD - TURNIP.
Bremia lactuceae. See LETTUCE. DISEASES. Downy mildew.
BROOM CORN. DISEASES.
Hartley, C.P. Broom corn. Diseases. Farm.Bul.174:26-28. 1903.
Rothgeb, B.E. Standard broom corn. Diseases. Farm.Bul.958: 17-18. 1918.
BRYOPHYLLUM CALYCINUM. DISEASES.
Smith, E.F. Effect of crowngall inoculations on Bryophyllum. Jour.Agr.Res.21:593-598. 1921. (G-238)
BULBS. DISEASES.
Griffiths, D., and Juenemann, H.E. Commercial Dutch-bulb culture in the United States. Bulb pests. Dept.Bul.797:33-36. 1919.
CABBAGE. DISEASES.
Harter, L.L., and Jones, L.R. Cabbage diseases, revised by J.C. Walker. Farm.Bul.1351, 28 p. 1923. (Revision of Farm. Bul.925. 1918)
Harter, L.L. Diseases of cabbage and related crops and their control. Farm.Bul.488, 32 p. 1912.
Walker, J.C. Observations on the cultivation and diseases of cabbage and onions in Europe, 1922. Plant Dis.Reporter Suppl. 32, 34 p. 1924. [Mimeographed]
Bacterial soft rots.
Mallmann, W.L., and Hemstreet, C. Isolation of an inhibitory substance from plants. Jour.Agr.Res.28:599-602. 1924. (Mich.-14)
Black leg.
Walker, J.C. Seed treatment and rainfall in relation to the control of cabbage black-leg. Dept.Bul.1029, 27 p. 1922.
Black rot. Pseudomonas campestris.
Russell, H.L. A bacterial disease of cabbage and allied plants. Off.Exp.Sta.Bul.49:83-89. 1898.
Smith, E.F. The black rot of the cabbage. Farm.Bul.68, 22 p. 1898.
Club root.
Kunkel, L.O. Tissue invasion by Plasmodiophora brassicae. Jour. Agr.Res.14:543-572. 1918. (G-155)
Mosaic.
Schultz, E.S. A transmissible mosaic disease of Chinese cabbage, mustard, and turnip. Jour.Agr.Res.22:173-178. 1921. (G-248)

CABBAGE. DISEASES. (Cont.)

Storage and transportation rots.

Harter, L.L. The decay of cabbage in storage: its cause and prevention. Bur.Plant Indus.Circ.39, 8 p. 1909.

Yellows.

Tisdale, W.B. Influence of soil temperature and soil moisture upon the Fusarium disease in cabbage seedlings. Jour.Agr. Res.24:55-86. 1923. (Wis.-20)

CABBAGE. SEED TREATMENT.

Walker, J.C. Cabbage-seed treatment. Dept.Circ.311, 4 p. 1924.

---------- Seed treatment and rainfall in relation to the control of cabbage black-leg. Dept.Bul.1029, 27 p. 1922.

CACAO. DISEASES.

Canker.

Reinking, O.A. Comparative study of Phytophthora faberi on coconut and cacao in the Philippine Islands. Jour.Agr.Res.25: 267-284. 1923. (G-324)

Caeoma nitens. See BLACKBERRY. DISEASES. Caeoma nitens.

CALLA LILY. DISEASES.

Soft rot. Bacillus aroideae.

Townsend, C.O. A soft rot of the calla lily. Bur.Plant Indus. Bul.60, 47 p. 1904.

CANCER IN RELATION TO PLANT TUMORS.

Smith, E.F., and others. The structure and development of crown-gall: a plant cancer. Bur.Plant Indus.Bul.255, 60 p. 1912.

---------- Crown-gall and sarcoma. Bur.Plant Indus.Circ.85, 4 p. 1911.

CANNA. DISEASES.

Bud rot.

Bryan, M.K. A bacterial budrot of cannas [Bacterium cannea n.sp] Jour.Agr.Res.21(3):143-152. 1921. (G-225)

Cannabis sativa. Diseases. See HEMP. DISEASES.

CASSAVA. DISEASES.

Tracy, S.M. Cassava. Diseases. Farm.Bul.167:15-16. 1903.

CASTOR OIL PLANT. DISEASES.

Brown rot. Bacterium solanacearum.

Smith, E.F., and Godfrey, G.H. Bacterial wilt of castor bean (Ricinus communis L.). Jour.Agr.Res.21:255-262. 1921. (G-232)

Sclerotinia ricini.

Godfrey, G.H. Gray mold of castor bean. Jour. Agr.Res.23:679-716. 1923. (G-280)

Catalase. See HYDROGEN-ION CONCENTRATION AND PLANT DISEASES. (Weiss).

CATALPA. DISEASES.

Schrenk, H. von. Diseases of the hardy catalpa. Bur.Forestry Bul.37:49-58. 1902.

Leaf spot.

Scribner, F.C. Leaf-spot disease of catalpa. Comr.Agr.Rep. 1887:364-366. 1888.

CAULIFLOWER. DISEASES.

Bacterial spot.

McCulloch, L. A spot disease of cauliflower [Bacterium maculicolum n.sp.] Bur.Plant Indus.Bul.225, 15 p. 1911.

Cedar. Diseases. See INCENSE CEDAR. - JUNIPER.

CELERY. DISEASES.

Jagger, I.C., and Gilbert, W.W. Diseases. (In Beattie, W.R. Celery growing.) Farm.Bul.1269:16-19. 1922.

Bacterial leaf spot.

Jagger, I.C. Bacterial leafspot disease of celery. [Pseudomonas apii, n.sp.]. Jour.Agr.Res.21:185-188. 1921. (G-228)

Damping off.

Jagger, I.C. Sclerotinia minor, n.sp., the cause of a decay of lettuce, celery, and other crops. Jour.Agr.Res.20:331-334. 1920. (G-211)

Late blight.

Krout, W.S. Treatment of celery seed for the control of Septoria blight. Jour. Agr.Res.21:369-372. 1921. (Mass.-6)

Leaf blight.

Galloway, B.T. Additional notes on celery leaf blight. Cercospora apii, Fries. Comr.Agr.Rep. 1888:398-399. 1889.

Scribner, F.L. Celery-leaf blight. Cersospora apii Fries. Comr. Agr.Rep. 1886:117-120. 1887.

Cephalasporium acremonium. See MAIZE. DISEASES. Cephalosporium acremonium.

Ceratocystis fimbriata. See SWEET POTATO. DISEASES. Black rot.

Cercospora apii. See CELERY. DISEASES. Leaf blight.

Cercospora beticola. See SUGAR BEET. DISEASES. Leaf spot.

Cercospora coffeicola. See COFFEE. DISEASES. Cercospora coffeicola.

Cercospora fusca. See PECAN. DISEASES. (RAND)

Cercospora gossypina. See COTTON. DISEASES. Mycosphaerella gossypina.

Cercospora personata. See PEANUT. DISEASES. Leaf spot.

Cercospora resedae. See MIGNONETTE. DISEASES.

Cercospora rosaecola. See ROSE. DISEASES. Leaf spot.

CEREALS. DISEASES.

Diseases of cereal and forage crops in the United States, 1918-1923. Plant Dis.Reporter, Suppl.4,8,15,21,27,35. 1919-1924. [Mimeographed]

Humphrey, H.B. Cereal diseases and the national food supply. Yearbook 1917:481-495. 1918.

Johnson, E.C. A study of some imperfect fungi isolated from wheat, oat, and barley plants. Jour.Agr.Res.1:475-490. 1914. (G-15)

See also BARLEY - MAIZE - MILLET - OATS - RICE - RYE - WHEAT.

Nematodes. Tylenchus tritici.

Leukel, R.W. Investigations on the nematode disease of cereals caused by Tylenchus tritici. Jour.Agr.Res.27:925-956. 1924. (G-406)

CEREALS. DISEASES.

Rust.

Carleton, M.A. Cereal rusts of the United States: a physiological investigation. Div.Veg.Physiol.& Path.Bul.16, 74 p. 1899.

---------- Investigations of rusts. Bur.Plant Indus.Bul. 63, 32 p. 1904.

---------- Lessons from the grain-rust epidemic of 1904. Farm.Bul.219, 24 p. 1905.

Freeman, E.M., and Johnson, E.C. The rusts of grains in the United States. Bur.Plant Indus.Bul.216, 87 p. 1911.

See also BARLEY ERADICATION - also subhead Rust under BARLEY - OATS - RYE - WHEAT.

Smut.

Humphrey, H.B., and Potter, A.A. Cereal smuts and disinfection of seed grain. Farm.Bul.939, 28 p. 1918.

Johnson, E.C. The smuts of wheat, oats, barley, and corn. Farm. Bul. 507, 32 p. 1912.

Swingle, W.T. The grain smuts: how they are caused and how to prevent them. Farm.Bul.75, 20 p. 1898.

---------- The grain smuts: their causes and prevention. Yearbook 1894: 409-420. 1895.

See also subhead Smut under BARLEY - MAIZE - OATS - RICE - WHEAT.

Take-all. Legislation.

Quarantine on account of flag smut and take-all diseases. (Effective Aug.15,1919) Fed.Hort.Bd. Not.Quar.39 (With regulations), 6 p., Jul.2,1919. Reprinted in S.R.A. Jun./Jul. 1919.

CEREALS. SEED TREATMENT.

Atanasoff, D. and Johnson, A.G. Treatment of cereal seeds by dry heat. Jour.Agr.Res.18: 379-390. 1920. (Wis.-17)

CHERRY. DISEASES.

Alternaria.

Lindegren, C.C., and Rose, D.H. Two hitherto unreported diseases of stone fruits. Jour.Agr.Res.28:603-605. 1924. (G-405)

Black knot. Plowrightia morbosa.

Taylor, T. Black-knot of plum and cherry trees. Month.Rep. 1874: 52-54, 5140516; 1876,353 (Ann.Rep.1873:196-200; 1874: 173-174; 1875: 206. 1874-76.)

Brown rot.

Brooks, C., and Fisher, D.F. Brown-rot of prunes and cherries in the Pacific Northwest. Dept.Bul.368, 10 p. 1916.

---------- , and Fisher, D.F. Prune and cherry brown-rot investigations in the Pacific Northwest. Dept.Bul.1252, 22 p. 1924.

Fisher, D.F., and Brooks, C. Control of brown-rot of prunes and cherries in the Pacific Northwest. Farm.Bul.1410, 12 p. 1924.

Galloway, B.T. Brown-rot of the cherry. Monilia fructigena,Pers. Comr. Agr. Rep.1888:349-352. 1889.

CHERRY. DISEASES. (Cont.)

Leafspot.

Roberts, J.W., and Pierce, L. Control of cherry leaf-spot. Farm.Bul.1053, 8 p. 1919.

Leaf spot. Coccomyces.

Keitt, G.W. Inoculation experiments with species of Coccomyces from stone fruits. Jour. Agr.Res.13:539-569. 1918. (Wis.-12)

Powdery mildew.

Waite, M.B. The powdery mildew of the cherry. Podosphaera oxycantha (D.C.), De Bary. Comr. Agr. Rep. 1889: 352-357. 1889.

Chestnut blight fungus. See CHESTNUT. DISEASES. Blight, Endothia; Endothia parasitica.

CHESTNUT. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Metcalf, H. The immunity of the Japanese chestnut to the bark disease. Bur. Plant Indus.Bul. 121:55-56. 1908.

CHESTNUT. DISEASES.

Blight.

Metcalf., H. The chestnut bark disease. Yearbook 1912:363-372. 1913.

Metcalf, H., and Collins, J.F. The control of the chestnut bark disease. Farm.Bul.467,24 p. 1911.

Blight. Endothia.

Shear, C.L., and others. Endothia parasitica and related species. Dept.Bul. 380, 82 p. 1917.

Blight. Endothia parasitica.

Heald, F.D., and others. Air and wind dissemination of ascospores of the chestnut-blight fungus. Jour.Agr.Res.3:493-526. 1915. (G-41)

---------- and Studhalter, R.A. Birds as carriers of the chestnut-blight fungus. Jour.Agr.Res.2:405-422. 1914. (G-31)

---------- and Gardner, M.W. Longevity of pycnospores of the chestnut-blight fungus in soil. Jour.Agr.Res.2:67-75. 1914. (G-18)

Hodson, E.R. Extent and importance of the chestnut bark disease. 8 p. 1908. (Forest Serv.)

Metcalf, H., and Collins, J. The present status of the chestnut bark disease. Bur. Plant Indus.Bul.141:45-54. 1909.

Root rot.

Long, W.H. The death of chestnuts and oaks due to Armillaria mellea. Dept.Bul.89, 9 p. 1914.

CHLOROSIS.

Gile, P.L., and Carrero, J.C. Cause of lime-induced chlorosis and availability of iron in the soil. Jour.Agr.Res.20;33-61. 1920. (B-16)

--------- Relation of calcereous soils to pineapple chlorosis. Porto Rico Agr.Exp.Sta.Bul.11, 45 p. 1911. (Spanish edition. Relacion entre los terrenos calcereo y la chlorosis de la pina. 1913)

See also CITRUS DISEASES. Mottled leaf - CONIFERS. DISEASES. Chlorosis - PINEAPPLE. DISEASES. Chlorosis.

Choanephora cucurbitarum. See SQUASH. DISEASES.

CHRYSANTHEMUM. DISEASES.

Botrytis.

Patterson, F.W., and Charles, V.K. Diseases of two ornamental plants caused by species of Botrytis. Bur.Plant Indus.Bul.171: 11-12. 1910.

Chrysophlyctis endobiotica. See POTATO. DISEASES. Wart disease. Synchytrium endobiotica.

CITRUS. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Peltier, G.L., and Frederich, W.J. Relative susceptibility to citrus-canker of different species and hybrids of the genus Citrus, including the wild relatives. Jour. Agr.Res.19:339-362. 1920. (Ala.-6)

CITRUS. DISEASES.

Higgins, J.E. Citrus fruits in Hawaii. Diseases. Hawaii Agr. Exp.Sta.Bul.9:22-25. 1905.

Swingle, W.T., and Webber, H.J. The principal diseases of citrous fruits in Florida. Div.Veg.Physiol.& Path.Bul.8, 42 p. 1896.

Swingle, W.T., and others. Quarantine procedure to safeguard the introduction of citrus plants: a system of aseptic plant propagation. Dept.Circ.299, 15 p. 1924.

Winston, J.R., and others. Bordeaux-oil emulsion. Dept.Bul. 1178, 24 p. 1923.

See also LEMON - LIME - ORANGE.

Blast.

Lee, H.A. A new bacterial citrus disease [Bacterium citrarefaciens, sp.nov.] Jour.Agr.Res.9:1-8. 1917. (Calif.-10)

Blue mold.

Fulton, H.R., and Bowman, J.J. Preliminary results with the borax treatment of citrus fruits for the prevention of blue mold rot. Jour.Agr.Res. 28:961-968. 1924. (G-490)

Brown rot.

Fawcett, H.S. Gummosis of citrus. Jour.Agr.Res.24:191-236. 1923. (Calif.-33)

Canker. Pseudomonas citri.

Fulton, H.R. Decline of Pseudomonas citri in the soil. Jour. Agr.Res.19:207-223. 1920. (G-193)

Hasse, C.H. Pseudomonas citri [n.sp], the cause of citrus canker. (A preliminary report) Jour.Agr.Res.4:97-100. (G-45)

Kellerman, K.F. Cooperative work for eradicating citrus canker. Yearbook 1916:267-272. 1917.

Lee, H.A. Behavior of the citrus-canker organism in the soil. Jour.Agr.Res.19:189-206. 1920. (G-192)

Peltier, G.L., and Frederich, W.J. Further studies on the relative susceptibility to citrus canker of different species and hybrids of the genus Citrus, including the wild relatives. Jour.Agr.Res. 28:227-239. 1924. (Ala.-9)

---------- Influence of temperature and humidity on the growth of Pseudomonas citri and its host plants and on infection and development of the disease. Jour.Agr.Res.20:447-506. 1920. (Ala.-7)

CITRUS. DISEASES. (Cont.)

Canker. (Cont.)

Peltier, G.L., and Neal, D.C. Overwintering of the citrous-canker organism in the bark tissue of hardy citrus hybrids. Jour.Agr.Res.14:523-524. 1918. (Ala.-5)

---------- and Frederich, W.J. Relative susceptibility to citrus-canker of different species and hybrids of the genus Citrus, including the wild relatives. Jour.Agr.Res.19:339-362. 1920. (Ala.-6)

---------- Susceptibility and resistance to citrus canker of the wild relatives, citrus fruits, and hybrids of the genus Citrus. (Preliminary paper). Jour.Agr.Res.14:337-358. 1918. (Ala.-4)

Wolf, F.A. Citrus canker. Journ.Agr.Res.6:69-100. 1916. (Ala.-2)

Canker. Legislation.

[Citrus canker and other citrus diseases.] (Effective Jan.1,1915) Fed.Hort.Bd. Not.Quar.19, 1 p., Dec.10,1914. [Mimeographed] Reprinted in S.R.A. Dec. 1914.

Citrus fruit quarantine [except oranges of the mandarin class]. (Effective Aug.1,1917) Fed.Hort.Bd. Not.Quar.28 (with regulations). 5 p., Jun.27,1917. Reprinted S.R.A. Jul. 1917.

Gummosis.

Fawcett, H.S. Gummosis of citrus. Jour.Agr.Res.24:191-236. 1923. (Calif.-33)

King, W.R. Mal di goma. Foot rot, gum disease, sore shin, etc. [of orange] Div.Pomol.Bul.4: 18-19. 1891.

Melanose.

Winston, J.R., and Bowman, J.J. Commercial control of citrus melanose. Dept.Circ.259, 8 p. 1923.

Mottled leaf.

Briggs, L.J., and others. Mottle-leaf of citrus trees in relation to soil conditions. Jour.Agr.Res.6:721-740. 1916. (G-90)

---------- and others. The mulched-basin system of irrigated citrus culture and its bearing on the control of mottle-leaf. Dept.Bul.499, 31 p. 1917.

Jensen, C.A. Composition of citrus leaves at various stages of mottling. Jour.Agr.Res.9:157-166. 1917. (G-109)

Kelley, W.O., and Cummins, A.B. Composition of normal and mottled citrus leaves. Jour.Agr.Res.20:161-191. 1920. (Calif.-24)

Nematodes. Tylenchulus semipenetrans.

Cobb, N.A. Citrus-root nematode. Jour.Agr.Res.2:217-230. 1914. (G-23)

Scab. Sphaceloma fawcettii.

Fawcett, H.S. Some relations of temperature to growth and infection in the citrus scab fungus Cladosporium citri. Jour.Agr.Res.21:243-253. 1921. (Calif.-30)

Peltier, G.L., and Frederich, W.J. Relation of environmental factors to citrus scab caused by Cladosporium citri Massee. Jour.Agr.Res.28:241-254. 1924. (Ala.-10)

CLOVER. DISEASES. (Cont.)

Pseudopeziza trifolii.

Jones, F.R. The leaf-spot diseases of alfalfa and red clover caused by the fungi Pseudopeziza medicaginis and Pseudopeziza trifolii, respectively. Dept.Bul.759, 38 p. 1919.

Clover. Dodder. See DODDER.

CLUB ROOT.

Kunkel, L.O. Tissue invasion by Plasmodiophora brassicae. Jour. Agr.Res.14:543-572. 1918. (G-155)

Monteith, J. Relation of soil temperature and soil moisture to infection by Plasmodiophora brassicae. Jour.Agr.Res.23:549-562. 1924. (G-425)

See also. CABBAGE. DISEASES. Club root.

COCO PALM. DISEASES.

Bud rot. Bacillus coli.

Johnston, J.R. The bud-rot of the coconut palm. Bur.Plant Indus. Circ.36, 5 p. 1909.

----------. The history and cause of the coconut bud-rot. Bur.Plant Indus.Bul.228, 175 p. 1912.

Bud rot. Phytophthora faberi.

Reinking, O.A. Comparative study of Phytophthora faberi on coconut and cacao in the Philippine Islands. Jour.Agr.Res.25: 267-284. 1923. (G-324)

Pestalozzia palmarum.

Busck, A. Report of an investigation of diseased cocoanut palms in Cuba. Div.Ent.Bul.n.s. 38:20-23. 1902.

Red ring.

Snyder, T.E., and Zetek, J. A possible mechanical carrier of the nematode Aphelenchus cocophilus which caused "red-ring" disease of coconut palm trees. Dept.Bul.1272: 13-16, 19-20. 1924.

Cocomyces. See CHERRY. DISEASES. Leaf spot - PLUM. DISEASES. Leaf spot.

Cocus nucifera. Diseases. See COCO PALM.

COFFEE. DISEASES.

Fawcett, G.L. Fungus diseases of coffee in Porto Rico. Porto Rico Agr.Exp.Sta.Bul.17, 29 p. 1915.

Cercospora coffeicola.

Smith, J.G. Two plant diseases in Hawaii. Hawaii Agr.Exp.Sta. Press Bul.9, 6 p. 1904.

Pellicularia koleroga.

Fawcett, G.L. Pellicularia koleroga on coffee in Porto Rico. Jour.Agr.Res.2.241-253. 1914. (B-2)

Sphaerostilbe flavida.

McClelland, T.B. The coffee leaf spot (Stilbella flavida) in Porto Rico. Porto Rico Agr.Exp.Sta.Bul.28, 12 p. 1921.

Swingle, W.T. Danger of introducing a Central American coffee disease into Hawaii. Div.Veg.Physiol.& Path.Circ.16, 4 p. 1898.

Colletotrichum brassicae. See TURNIP. DISEASES. Leafspot.

COTTON. DISEASES. (Cont.)

Leaf cut.

Cook, O.F. Leaf-cut or tomosis, a disorder of cotton seedlings. Bur.Plant Indus.Circ. 120:29-34. 1913.

Mycosphaerella gossypina.

Scribner, F.L. Cotton-leaf blight. Cercospora gossypina, Cke. Comr.Agr.Rep.1887:355-357. 1888.

Nematodes. See NEMATODE. DISEASES. Tylenchus penetrans.

Physiological.

Cook, O.F. Acromania, or "crazy-top," a growth disorder of cotton. Jour.Agr.Res.28:803-828. 1924. (G-432)

See also COTTON. DISEASES. Leaf cut.

Root knot. Heterodera radicicola.

Atkinson, G.F. A new root rot disease of cotton. (Heterodera radicicola). Insect Life 3: 262-264. 1891.

Gilbert, W.W. Cotton wilt and root-knot. Farm.Bul.625, 21 p. 1914. Rev. 1917.

Orton, W.A., and Gilbert, W.W. The control of cotton wilt and root-knot. Bur.Plant Indus.Circ. 92, 19 p. 1912.

Root rot. Ozonium omnivorum.

King, C.J. Cotton rootrot in Arizona. Jour.Agr.Res.23:525-527. 1923. (G-281)

---------- Habits of the cotton rootrot fungus. Jour.Agr.Res. 26(1923):405-418. 1924. (G-340)

Scofield, C.S. Cotton rootrot in the San Antonio rotations. Jour. Agr.Res.21(3):117-125. 1921. (G-224)

---------- Cotton rootrot spots. Jour.Agr.Res.18:305-310. 1919. (G-182)

Shear, C.L., and Miles, G.F. The control of Texas root-rot of cotton. Bur.Plant Indus.Bul.102:39-42. 1907.

---------- and Miles, G.F. Texas root-rot of cotton: field experiments in 1907. Bur.Plant Indus.Circ.9, 7 p. 1908.

Tomosis. See COTTON. DISEASES. Leaf cut.

Wilt.

Orton, W.A., and Gilbert, W.W. The control of cotton wilt and root-knot. Bur.Plant Indus.Circ.92, 19 p. 1912.

Wilt. Fusarium vasinfectum.

Elliott, J.A. Cotton-wilt, a seed-borne disease. Jour.Agr.Res. 23:387-395. 1923. (Ark.-2)

Gilbert, W.W. Cotton wilt and root-knot. Farm.Bul.625, 21 p. 1914. Rev. 1917.

Wilt. Neocosmospora vasinfecta.

Orton, W.A. The control of cotton wilt and root-knot. Bur. Plant Indus.[Doc.]648, 4 p. 1911.

---------- Cotton wilt. Farm.Bul.333, 24 p. 1908.

---------- The wilt disease of cotton and its control. Div. Veg.Physiol. & Path.Bul.27, 16 p. 1900.

Smith, E.F. Wilt disease of cotton, watermelon, and cowpea (Neocosmospora nov.gen.) Div.Veg.Physiol.& Path.Bul.17, 72 p. 1899.

Cotton. Disorders. See COTTON. DISEASES. Leaf cut.

COTTON. LIGHTNING INJURY.

Jones, L.R., and Gilbert. W.W. Lightning injury to cotton and potato plants. Mo. Weather Rev. 43:135. 1915.

COTTON. SPRAY INJURY.

Smith, C.M. Excretions from leaves as a factor in arsenical injury to plants. Jour.Agr.Res.26:191-194. 1923. (E-26)

Cottonwood. Diseases. See POPLAR. DISEASES. Leaf rust.

COWPEA. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Orton, W.A. Iron cowpea. [Circular distributed with seed]. Bur.Plant Indus. [Unnumbered Doc.], 4 p. 1904.

---------- Iron cowpea. (A variety resistant to wilt and root-knot.) [Circular distributed with seed] Bur.Plant Indus. [Unnumbered Doc.], 4 p. [1903?] Reprinted in Bur.Plant Indus. Bul.25:65-68. 1903.

COWPEA. DISEASES.

Morse, W.J. Cowpeas: culture and varieties. Diseases. Farm.Bul. 1148:21-23. 1920.

Root knot. Heterodera radicicola.

Webber, H.J., and Orton, W.A. A cowpea resistant to root knot (Heterodera radicicola). Bur.Plant Indus.Bul. 17:23-38. 1902.

---------- Root knot of the cowpea. Off.Exp.Sta.Bul.115: 113-114. 1902.

Wilt. Neocosmospora vasinfecta.

Smith. E.F. Wilt disease of cotton, watermelon, and cowpea (Neocosmospora nov.gen.) Div.Veg.Physiol.& Path.Bul.17, 72 p. 1899.

Wilt. Neocosmospora vasinfecta var. tracheiphila.

Orton, W.A. The wilt disease of the cowpea and its control. Bur. Plant Indus.Bul.17:8-22. 1902.

CRANBERRY. DISEASES.

Shear, C.L. Cranberry diseases. Bur.Plant Indus.Bul.110, 64 p. 1907.

---------- Cranberry diseases and their control. Farm.Bul. 1081, 22 p. 1920.

---------- Cranberry spraying experiments in 1905. Bur.Plant Indus.Bul.100:7-12., 1907.

Stevens, N.E. Temperatures of the cranberry regions of the United States in relation to the growth of certain fungi. Jour.Agr. Res.11:521-529. 1917. (G-127)

Early rot.

Taylor, T. Cranberry rot and scald. Month.Rep. 1874:439-449(Ann. Rep. 1874:161-173, 1875). Month.Rep. 1875:42-44,445-448; 1876: 45-48,350-353 (Ann. Rep.1875:193-206, 1876).

Endrot. Fusicoccum putrefaciens.

Shear, C.L. Endrot of cranberries [Fusicoccum putrefaciens n.sp.] Jour Agr.Res.11:35-42. 1917. (G-123)

False blossom.

Shear, C.L. False blossom of the cultivated cranberry. Dept. Bul.444, 7 p. 1916.

Storage and transportation rots.

Shear, C.L., and others. Spoilage of cranberries after harvest. Dept. Bul. 714, 20 p. 1918.

CROWN GALL (Cont.)

Smith, E.F. Effect of crowngall inoculations on Bryophyllum. Jour.Agr.Res.21:593-598. 1921. (G-238)

---------- Mechanism of tumor growth in crowngall. Jour. Agr. Res. 8:165-188. 1917. (G-104)

---------- and others. The structure and development of crown-gall: a plant cancer. Bur.Plant Indus.Bul.255, 60 p. 1912.

See also ABNORMAL GROWTHS - APPLE. DISEASES. Crown-gall. BRYOPHYLLUM CALYCINUM. DISEASES - CANCER IN RELATION TO PLANT TUMORS - GRAPE. DISEASES. Crown gall.

CUCUMBER. DISEASES.

Beattie, J.H. The production of cucumbers in greenhouses. Diseases. Farm.Bul.1320:25-26. 1923.

Orton, W.A. Spraying for cucumber and melon diseases. Farm.Bul. 231, 24 p. 1905.

Angular leaf spot. Bacterium lachrymans.

Carsner, E. Angular-leafspot of cucumber; dissemination, overwintering, and control. Jour.Agr.Res.15:201-220. 1918. (G-160)

Meier, F.C., and Link, G.K.K. Bacterial spot of cucumbers. Dept. Circ.234, 5 p. 1922.

Smith, E.F., and Bryan, M.K. Angular leaf-spot of cucumbers [Bacterium lachrymans, sp.nov.]. Jour.Agr.Res.5:465-476. 1915. (G-68)

Leaf spot. Stemphylium cucurbitacearum.

Osner, G.A. Stemphylium leafspot of cucumbers. Jour.Agr.Res. 13:295-306. 1918. (Ind.-3)

Mosaic.

Doolittle, S.P. Control of cucumber mosaic in the greenhouse. Dept.Circ.321, 6 p. 1924.

---------- The mosaic disease of cucurbits. Dept.Bul.879, 69 p. 1920.

CUCURBITS. DISEASES.

Anthracnose. Colletotrichum lageniatrum.

Gardner, M.W. Anthracnose of cucurbits. Dept.Bul.727, 68 p. 1918.

Bacterial wilt. Bacillus tracheiphilus.

Rand, F.V., and Enlows, E.M.A. Bacterial wilt of cucurbits. Dept. Bul.828, 43 p. 1920.

---------- Dissemination of bacterial wilt of cucurbits. Preliminary note. Jour.Agr.Res.5:257-260. 1915. (G-64)

---------- and Enlows, E.M.A. Transmission of and control of bacterial wilt of cucurbits. Jour.Agr.Res.6:417-434. 1916. (G-83)

Mosaic.

Doolittle, S.P. The mosaic disease of cucurbits. Dept.Bul.879, 69 p. 1920.

See also CUCUMBER - MELON - SQUASH - WATERMELON.

CURRANT. DISEASES.

Darrow, G.M., and Detwiler, S.B. Currants and gooseberries: their culture and relation to white-pine blister rust. Farm.Bul. 1398, 38 p. 1924.

Shear, C.L. Diseases. (In Darrow, G.M. Currants and gooseberries) Farm.Bul.1024:20-22. 1919. Rev. 1922.

CURRANT. DISEASES. (Cont.)

Cane blight. Botryosphaeria ribis.

Shear, C.L., and others. Botryosphaeria and Physalospora on currant and apple. Jour.Agr.Res.28:589-598. 1924. (G-385)

Stevens, N.E., and Jenkins, A.E. Occurrence of the currant cane blight fungus on other hosts. Jour.Agr.Res.27:837-844. 1924. (G-376)

Physalospora malorum.

Stevens, N.E. Physalospora malorum on currant. Jour.Agr.Res. 28:583-588. 1924. (G-422)

CURRANT ERADICATION.

Posey, G.B., and Ford, E.R. Survey of blister rust infection on pines at Kittery Point, Maine, and the effect of Ribes eradication in controlling the disease. Jour.Agr.Res.28:1253-1258. 1924. (G-445)

Cuscuta. See DODDER.

CYCLAMEN. DISEASES.

Patterson, F.W., and Charles, V.K. Disease of Cyclamen caused by a variety of Glomerella rufomaculans. Bur.Plant Indus.Bul. 171: 12-13. 1910.

Cynara scolymus. Diseases. See ARTICHOKE.

Cyperus tegetiformis. Diseases. See SEDGE.

Cytospora batata. See SWEET POTATO. DISEASES. Pox. Cytospora batata.

Cytospora chrysosperma. See POPLAR. DISEASES. Canker. Cytospora chrysosperma - WILLOW. DISEASES.

DAMPING OFF.

Hartley, C. Damping-off in forest nurseries. Dept.Bul.934,99 p. 1921.

See also CELERY. DISEASES. Damping off - CONIFERS. DISEASES. Damping off - SUGAR BEET. DISEASES. Damping off.

DANDELION. DISEASES.

Nematodes.

Godfrey, G.H. Dissemination of the stem and bulb infesting nematode, Tylenchus dipsaci, in the seeds of certain composites. Jour.Agr.Res.28:473-478. 1924. (G-395)

DASHEEN. DISEASES.

Root knot.

Young, R.A. The dasheen: a southern root crop for home use and market. Diseases. Farm.Bul.1396:22-24. 1924.

Storage and transportation rots.

Harter, L.L. Storage-rots of economic aroids. Jour.Agr.Res. 6: 549-572. 1916. (G-85)

Delphinium. Diseases. See LARKSPUR.

Diaporthe batatatis. See SWEET POTATO. DISEASES. Dry rot.

Diaporthe parasitica (synonym of Endothia parasitica). See CHESTNUT. DISEASES. Blight. Endothia parasitica.

Diaporthe phaseolorum. See BEAN. DISEASES. Podblight.

Diaporthe umbrina. See ROSE. DISEASES. Canker.

Diplodia sp. See WATERMELON. DISEASES. Stem end rot.

Frost. Resistance of plants to. See FREEZING AND FROST INJURY.
FRUIT AND FRUIT TREES. DISEASES.

Brooks, C., and Cooley, J.S. Temperature relations of stone fruit fungi. Jour.Agr.Res.22:451-465. 1922. (G-256)

Diseases of fruit and nut crops in the United States, 1923. Plant Dis.Reporter Suppl. 33:35-147. 1924. [Mimeographed]

Diseases of fruit crops in the United States, 1918-20. Plant Dis.Bul.Suppl.1,9,14. 1919-1921. [Mimeographed]

Halsted, B.D. Study of fruit decays. Cff.Exp.Sta.Bul.16: 91-92. 1893.

Taylor, T. Report on fungoid diseases of plants. Comr.Agr. Rep.1871:110-122. 1872.

See also APPLE - APRICOT - CHERRY - CITRUS - FIG - NURSERY STOCK - OLIVE - PEACH - PEAR - PLUM - QUINCE - SMALL FRUITS.

Control.

Brooks, C., and Fisher, D.F. Transportation rots of stone fruits as influenced by orchard spraying. Jour.Agr.Res.22: 467-477. 1921. (G-257)

Fairchild, D.G. Miscellaneous work in New York state. Div.Veg. Path.Bul.3:57-60, 62-68. 1892.

Galloway, B.T. Report on the experiments made in 1891 in the treatment of plant diseases. Div.Veg.Path.Bul.3, 76 p. 1892.

---------- Spraying for fruit diseases. Farm.Bul.38, 12 p. 1896.

Gould, H.P. Practical suggestions for fruit growers. Farm.Bul. 161, 28 p. 1902. Spraying, p.15-24.

Piper, C.V. Orchard enemies in the Pacific Northwest. Farm.Bul. 153, 39 p. 1902.

Spraying fruits for insect pests and fungous diseases. Farm.Bul. 7, 20 p. 1892.

Waite, M.B. Fungicides and their use in preventing diseases of fruits. Farm.Bul.243, 32 p. 1906.

Brown rot. Sclerotenia cinerea.

Brooks, C., and Fisher, D.F. Prune and cherry brown-rot investigations in the Pacific Northwest. Dept.Bul.1252, 22 p. 1924.

Roberts, J.W., and Dunegan, J.C. The fungus causing the common brown rot of fruits in America. Jour.Agr.Res.28:955-960. 1924. (G-408)

See also CHERRY. DISEASES. Brown rot.

Crown gall. See CROWN GALL.

Rust.

Scribner, F.L. Leaf rust of the cherry, peach, plum, etc. Puccinia pruni-spinosae, Pers. Comr.Agr.Rep.1887:353-355. 1888.

See also APPLE. DISEASES. Rust.

Storage and transportation rots.

Brooks, C., and Fisher, D.F. Transportation rots of stone fruits as influenced by orchard spraying. Jour.Agr.Res.22:467-477. 1922. (G-257)

FRUIT AND FRUIT TREES. DISEASES (Cont.)
Storage and transportation rots (Cont.)
Lindegren, C.C., and Rose, D.H. Two hitherto unreported diseases of stone fruits. Jour.Agr.Res.28:603-605. 1924. (G-405)
Rose, D.H. Diseases of stone fruits on the market. Farm.Bul. 1435, 16 p. 1924.
See also APPLE. DISEASES. Storage and transportation rots - CITRUS. DISEASES. Storage and transportation rots - PEAR. DISEASES. Storage and transportation rots. - STORAGE AND TRANSPORTATION ROTS.
FRUIT AND FRUIT TREES.
Weather injuries.
Waite, M.B. Fruit trees frozen in 1904. Bur.Plant Indus.Bul. 51:15-19. 1905.
West, F.L., and Edlefsen, N.E. Freezing of fruit buds. Jour. Agr.Res.20:655-662. 1921. (Utah-12)
FUMIGATION INJURY.
Moore, W., and Willaman, J.J. Studies in greenhouse fumigation with hydrocyanic acid: physiological effects on the plant. Jour.Agr.Res.11:319-338. 1917. (Minn.-21)
Woglum, R.S. Fumigation of citrus plants with hydrocyanic acid; conditions influencing injury. Dept.Bul.907, 43 p. 1920.
See also CITRUS. Fumigation injury.
FUNGI.
Patterson, F.W. A collection of economic and other fungi prepared for distribution. Bur.Plant Indus.Bul.8, 31 p., 1902.
Temperature influences. See PLANT DISEASE ORGANISMS. Temperature influences.
Toxic agents.
Humphrey, C.J., and Fleming, R.M. The toxicity to fungi of various oils and salts, particularly those used in wood preservation. Dept.Bul.227, 38 p. 1915.
Neifert, I.E., and Garrison, G.L. Experiments on the toxic action of certain gases on insects, seeds, and fungi. Dept.Bul. 893, 16 p. 1920.
FUNGICIDES.
Earle, F.S. [Report on experiments with fungicides]. Bot. Div.(Sect.Veg.Path.) Bul.11:83-88. 1890.
Ferrouillat, P. Apparatus for combating the mildew and other fungus diseases of plants. Bot.Div.(Sect.Veg.Path.) Bul.5:87-110. 1888.
Galloway, B.T. Report on the experiments made in 1889 in the treatment of the fungous diseases of plants. Bot.Div.(Sect.Veg.Path.) Bul.11, 119 p. 1890.
---------- Report on the experiments made in 1891 in the treatment of plant diseases. Div. Veg.Path.Bul.3, 76 p. 1892.
---------- Some observations on new and old insecticides and their combination with fungicides. Insect Life 7:126-132. 1894.
Jones, L.R. A comparative test of fungicides in checking potato blight and rot. Off.Exp.Sta.Bul.16:89-91. 1895.
Pearson, A.W. [Report of experiments in the treatment of the fungous diseases of plants]. Bot.Div.(Sect.Veg.Path.)Bul.11: 41-49. 1890.

FUNGICIDES. (Cont.)

Piper, C.V. Orchard enemies in the Pacific Northwest. Farm. Bul.153, 39 p. 1902.

Scribner, F.L. Fungicides, or remedies for plant diseases. Bot. Div.(Sect.Veg.Path.)Circ.5, 10 p. 1888.

Treatment for fungous diseases of plants: Formulas for fungicides. Yearbook 1894:577-580; 1895:527-590; 1896:625-628; 1897:673-676. 1895-1898.

Yothers, W.W., and Winston, J.R. Mixing emulsified mineral lubricating oils with deep-well waters and lime-sulphur solutions. Dept.Bul.1217, 5 p. 1924.

See also FUNGI. Toxic agents - SPRAY INJURY - SPRAYING.

Borax.

Fulton, H.R., and Bowman, J.J. Preliminary results with the borax treatment of citrus fruits for the prevention of blue mold rot. Jour.Agr.Res.28:961-968. 1924. (G-490)

Bordeaux emulsion.

Winston, J.R., and others. Bordeaux-oil emulsion. Dept.Bul.1178. 24 p. 1923.

Bordeaux mixture.

Fairchild, D.G. Bordeaux mixture as a fungicide. Div.Veg.Path. Bul.6, 55 p. 1894.

Hawkins, L.A. Some factors influencing the efficiency of Bordeaux mixture. Bur.Plant Indus.Bul.265, 29 p. 1912.

Swingle, W.T. Bordeaux mixture: its chemistry, physical properties, and toxic effects on fungi and algae. Div.Veg.Physiol. & Path. Bul.9, 37 p. 1896.

Wallace, E., and Evans, L.H. Commercial bordeaux mixtures. Farm. Bul.994, 11 p. 1918.

See also FUNGICIDES. Bordeaux mixture - FUNGICIDES. Pickering sprays - SEED TREATMENT.

Copper.

Cook, F.C. The influence of copper sprays on the yield and composition of Irish potato tubers. Dept.Bul.1146, 37 p. 1923.

Winston, J.R., and Fulton, H.R. The field testing of copper-spray coatings. Dept.Bul.785, 9 p. 1919.

See also FUNGICIDES. Copper - FUNGICIDES. Pickering sprays - SEED TREATMENT.

Ferrous sulphate. See CONIFERS. DISEASES. Chlorosis.

Formaldehyde.

Hurd, A.M. Injury to seed wheat resulting from drying after disinfection with formaldehyde. Jour.Agr.Res.20:209-244. 1920. (G-206)

Thomas, C.C. Seed disinfection by formaldehyde vapor. [Preliminary report] Jour.Agr.Res.17:33-39. 1919. (G-3)

See also CEREALS, DISEASES. Smut - SEED DISINFECTION - WHEAT. Seed treatment.

Lime sulphur wash.

Scott, W.M. Lime-sulphur mixtures for the summer spraying of orchards. Bur.Plant Indus.Circ.27, 17 p. 1909.

GRAPE. DISEASES. (Cont.)

Control. (Cont.)

Howell, A.M. [Report on the treatment of the fungous diseases of the grape and tomato.] Bot.Div.(Sect.Veg.Path.)Bul.11:49-65. 1890.

Jaeger, H. Experiments at Neosho, Missouri [made in 1887-1888 in treatment of downy mildew and black-rot of the grape vine]. Bot.Div.(Sect.Veg.Path.)Bul.5:29-36, 1888; 10:29-34, 1889.

---------- [Report on the experiments in the treatment of grape diseases.] Bot.Div.(Sect.Veg.Path.)Bul.11:65-69. 1890.

Lyman, H.L. Experiments at Charlottesville, Va.[made in 1887-1888 in the treatment of downy mildew and black-rot of the grape vine]. Bot.Div.(Sect.Veg.Path.)Bul.5:7-16, 1888; 10:20-28, 1889.

Montlaur, A. de. Note on the use of alkaline polysulphides for the mildew. [Translated from Bulletin de la Société centrale d' agriculture...Hérault, 1886.] Bot.Div.(Sect.Veg.Path.)Bul.2:67-70. 1886.

Munson, T.V. Experiments at Denison, Tex. [made in 1887 in treatment of mildew and black-rot of the grape vine]. Bot.Div.(Sect. Veg.Path.) Bul.5:23-28. 1888.

Pearson, A.W. Experiments at Vineland, N.J. [made in 1887-1888 in treatment of downy mildew and black-rot of the grape vine]. Bot.Div.(Sect.Veg.Path.)Bul.5:17-22, 1888; 10:13-19, 1889.

---------- Remarks on grape rot and mildew. Bot.Div.(Sect. Veg.Path.)Bul.2:54-63. 1886.

Scribner, F.L. Report on the experiments made in 1887 in the treatment of the downy mildew and the black-rot of the grape vine. Bot.Div.(Sect.Veg.Path.)Bul.5, 113 p. 1888.

Scribner, F.L., and others. Report on the experiments made in 1888 in the treatment of the downy mildew and black rot of the grape vine. Bot.Div.(Sect.Veg.Path.)Bul.10, 61 p. 1889.

Treatment of the downy grape mildew (Peronospora viticola) and the black rot (Phoma uvicola). Bot.Div.(Sect.Veg.Path.)Circ.[1] , 3 p. [1886] Also in Comr.Agr.Rep. 1886:99-100. 1887.

Vergnette-Lamotte,G.E.A. de. A remedy for the mildew. [Translated from Bulletin de la Société centrale d'agriculture.... Hérault, 1886] Bot.Div.(Sect.Veg.Path.)Bul.2:80-82. 1886.

Hawkins, L.A. Experiments in the control of grape anthracnose. Bur.Plant Indus.Circ.105, 8 p. 1913.

Bitter-rot.

Galloway, B.T. Ripe rot of grapes and apples, Gloeosporium fruitigenum, Berk. Sec.Agr.Rep.1890:408. 1890.

Black rot. Guignardia bedwellii.

Frechou, Treatment of black-rot in France. [Abstract in English from report to the prefect of Lot.et-Garonne] Bot.Div.(Sect. Veg.Path.)Bul.11:88-93. 1890.

Galloway, B.T. Experiments in the treatment of black rot of the grape. Div.Veg.Path.Bul.3:9-31, 68-70. 1892.

---------- Treatment of black rot of the grape. Bot.Div.(Sect. Veg.Path.)Circ.6, 3 p. 1888.

GRAPE. DISEASES. (Cont.)

Black rot. Guignardia bidwellii. (Cont.)

Prillieux, E.E. Results of experiments in the treatment of black rot made at Aiguillon, France, in 1888. Bot.Div.(Sect.Veg.Path.) Bul.10:49-55. 1889.

Scribner, F.L., and Biala, P. Black rot (Laestadia Bidwellii). Bot.Div.(Sect.Veg.Path.)Bul.7, 29 p. 1888.

---------- Report on the extent, severity and treatment of the black-rot and brown-rot in northern Ohio. Bot.Div.(Sect.Veg. Path.) Bul.11:78-83. 1890.

Shear, C.L., and others. The control of black-rot of the grape. Bur.Plant Indus.Bul.155, 42 p. 1909.

Smith, E.F. Synopsis of replies to a circular relative to grape mildew and grape rot in the United States. Bot.Div.(Sect.Veg. Path.) Bul.2:45-53. 1886.

See also GRAPE. DISEASES. Control.

California disease.

Galloway, B.T. The California vine disease. Sec.Agr.Rep.1889: 423-429; 1890:405-406; 1891:371-372. 1889-1892.

Pierce, N.B. California vine disease; a preliminary report of investigations. Div.Veg.Path.Bul.2, 222 p. 1892.

Coulure. See GRAPE. DISEASES. (Pierce)

Crown-gall. Bacterium tumefaciens.

Hedgcock, G.G. Field studies of the crown-gall of the grape. Bur.Plant Indus.Bul.183, 40 p. 1910.

Downy mildew. Plasmopora viticola.

Allen, J.F. Remarks on the grape disease of Europe. Comr.Patents, Rep.Agr. 1854:311-312. 1855.

Cerletti, M.G.B. The Peronospora overcome by hydrate of lime... Lime as a remedy for Peronospora. [Translated from] Messager agricole, Oct.10,1885. Bot.Div.(Sect.Veg.Path.)Bul.2:71-76. 1886.

Comes, O., and Deperais, C. First result obtained from the use of the chloride of aluminum and proposal of new remedies against the peronospora of the vine. [Abstract of Primo résultato ottenuto dell' uso del cloruro di alluminio... 1889] Bot.Div.(Sect.Veg. Path.)Bul.11:94-96. 1890.

Erni, H. The grape disease in Europe; its origin, history, phenomena and cure. Comr.Patents, Rep.Agr.1865:324-338. 1866.

Foëx, G. Practical treatments for the prevention of mildew. [Translated from: Le vigne américaine et viticole en Europe, June 1886. Bot.Div.(Sect.Veg.Path.)Bul.2:113-115. 1886.

Lafitte, P. de. Action of sulphate of copper on the mildew. [Translated from] Journal d'agriculture pratique, Oct.1, 1885. Bot.Div. (Sect.Veg.Path.)Bul.2:100-107. 1886.

Millardet, P.M.A., and Gayon, L.U. Effect of mildew on the vine, and the influence of efficient treatment. [Translated from] Journal d'agriculture pratique, Oct.29,1885. Bot.Div.(Sect.Veg.Path.) Bul.2:97-99. 1886.

---------- Treatment of mildew and rot. [Translated from] Journal d'agriculture pratique, Oct.8,1885. Bot.Div.(Sect.Veg. Path.)Bul.2:94-96. 1886.

GRAPE, DISEASES. (Cont.)

Downy mildew, Plasmopara viticola. (Cont.)

Millardet, P.M.A., and Gayon, L.U. Treatment of mildew by a mixture of sulphate of copper and lime. [Translated from] Journal d'agriculture pratique, Nov.12,1885. Bot.Div.(Sect.Veg.Path.)Bul.2: 108-112. 1886.

Müntz, E. Treatment of mildew by sulphate of copper. [Translated from] Journal d'agriculture pratique, Nov.12,1885. Bot. Div.(Sect.Veg.Path.) Bul.2:92-93. 1886.

Perrey, A. On the destruction of mildew by sulphate of copper. [Translated from] Comptes Rendus Acad.Sci.Paris, Oct.5,1885. Bot. Div.(Sect.Veg.Path.)Bul.2:89-91. 1886.

Prillieux, E.E. Report on the treatment of mildew in Médoc. [Translated from Bulletin de la Société centrale d'agriculture... Hérault, 1886.] Bot.Div.(Sect.Veg.Path.)Bul.2:83-88. 1886.

Results of the congress on parasitic diseases of the vine held at Florence, Italy, October, 1886. Div.Bot.(Sect.Veg.Path.)Bul.2: 119-121. 1886.

Saunders, W. Remarks on grape culture, with reference to mildew, both on the native and foreign varieties. Comr.Agr.Rep.1861: 495-506. 1862.

Scribner, F.L. Report on the experiments made in 1887 in the treatment of the downy mildew and the black-rot of the grape vine. Bot.Div.Bul.5, 113 p. 1888.

---------- Report on the extent, severity and treatment of the black-rot and brown-rot in northern Ohio. Bot.Div.(Sect.Veg.Path.) Bul.11:76-83. 1890.

Smith, E.F. Synopsis of the replies to a circular relative to grape mildew and grape rot in the United States. Bot.Div.(Sect. Veg.Path.)Bul.2:45-53. 1886.

Erysiphe tuckeri.

Taylor, T. The fungus Erysiphe Tuckeri. Month.Rep.1874:516-519 (Ann.Rep.1874:174-177,1875).

Little leaf.

Bioletti, F.R., and Bonnet, L. Little-leaf of the vine. Jour.Agr. Res.8:381-398. 1917. (Calif.-9)

Physiological. See under GRAPE, DISEASES.- California disease - Little leaf.

Powdery mildew.

Chauzit, B. Treatments for mildew in France in 1887. [Translated from] Progres agricole et viticole Nov.6,1887. Bot.Div.(Sect. Veg.Path.)Bul.5:75-85. 1888.

Pike, N. The grape disease in Europe. Comr.Patents Rep.Agr.1853: 311-313. 1854. (With comment by D.J.Browne)

Saunders, W. Mildew on the grape. Dept.Agr.Month.Rep.1867:330-333.

---------- Remarks on grape culture, with reference to mildew, both on the native and foreign varieties. Comr.Agr. 1861:495-506. 1862.

GRAPE. DISEASES. (Cont.)
Powdery mildew. (Cont.)
Smith, E.F. Synopsis of replies to a circular relative to grape mildew and grape rot in the United States. Bot.Div.(Sect. Veg.Path.)Bul.2:45-53. 1886.
Taylor, T. Report on fungoid diseases of plants. Comr.Agr.Rep. 1871:110-122. 1872.
Root rot.
Beckwith, A.M. The life history of the grape rootrot fungus Roesleria hypogaea Thüm. et Pass. Jour.Agr.Res.27:609-616. 1924. (G-355)
Septosporium.
Southworth, E.A. Septosporium on grape leaves. Comr.Agr.Rep. 1888:381-383. 1889.
GRASSES AND FORAGE PLANTS. DISEASES.
Diseases of cereal and forage crops in the United States, 1918-1923. Plant Dis.Reporter, Suppl.4,8,15,21,27,35. 1919-1924. [Mimeographed]
See also ALFALFA - BAMBOO - BROOM CORN - MILLET - ORCHARD GRASS - PASPALUM DILITATUM - POA - SORGHUM - SUGAR CANE - TIMOTHY.
Helminthosporium.
Drechsler, C. Some graminicolous species of Helminthosporium: I. Jour.Agr.Res.24:641-740. 1923. (G-306)
Guignardia vaccinii. See CRANBERRY. DISEASES. (Shear)
Gymnoconia, See BLACKBERRY. DISEASES. Rust. - RUBUS. DISEASES. Rust.
GYMNOSPORANGIUM.
Jackson, H.S. An Asiatic species of Gymnosporangium established in Oregon. [Gymnosporangium koreaense nov.comb.] Jour.Agr.Res. 5:1003-1010. 1916. (Ind.-2)
Long, W.H. An undescribed species of Gymnosporangium from Japan. Jour.Agr.Res.1:353-356. 1914. (G-11)
HAWTHORN. DISEASES.
Aecidium laceratum.
Taylor, T. Hawthorn blight. Month.Rep.1873:431-433 (Ann.Rep. 1873:183-186, 1874)
Helicosporium nymphaearum. See WATER LILY. DISEASES. Leaf spot. Helicosporium nymphaearum.
Helminthosporium diseases. See GRASSES AND FORAGE PLANTS. DISEASES. Helminthosporium - RICE. DISEASES. Helminthosporium.
Helminthosporium sativum. See BARLEY. DISEASES. Helminthosporium sativum - WHEAT. DISEASES. Helminthosporium.
HEMLOCK. DISEASES.
Heart rot. Echinodontium tinctorum.
Weir, J.R., and Hubert, E.E. A study of heart-rot in western hemlock. Dept.Bul.722, 39 p. 1918.
HEMP. DISEASES.
Charles, V.K., and Jenkins, A.E. A fungous disease of hemp. [Botryosphacria marconii n.sp.] Jour.Agr.Res.3:81-84. 1914. (G-33)
Herpotrichia quinqueseptata. See SPRUCE. DISEASES. Herpotrichia quinqueseptata.
Heterodera radicicola. See COTTON. DISEASES (Atkinson) - COTTON. DISEASES. Root knot - COWPEA. DISEASES. Root knot - NEMATODE DISEASES. - ROOT KNOT.

INSECTS AS CARRIERS OF PLANT DISEASES. (Cont.)

Jagger, I.C. A transmissible mosaic disease of lettuce. Jour. Agr.Res.20:737-740. 1921. (G-219)

McClintock, J.A., and Smith, L.B. True nature of spinach-blight and relation of insects to its transmission. Jour.Agr.Res.14: 1-60. 1918. (Va.(Norfolk)-3)

Rand, F.V. Dissemination of bacterial wilt of cucurbits. (Preliminary note) Jour.Agr.Res.5:257-260. 1915. (G-64)

---------- and Enlows, E.M.A. Transmission of and control of bacterial wilt of cucurbits. Jour.Agr.Res.6:417-434. 1916. (G-83)

Schultz, E.S., and Folsom, D. Transmission, variation, and control of certain degeneration diseases of Irish potatoes. Jour.Agr.Res.25:43-118. 1923. (G-318)

Snyder, T.E., and Zetek, J. A possible mechanical carrier of the nematode Aphelenchus cocophilus which causes "red-ring" disease of coconut palm trees. Dept.Bul.1232:13-16, 19-20. 1924.

Wolf, F.A. Further studies on peanut leafspot. Jour.Agr.Res.5: 891-902. 1916. (Ala.-1)

See also SUGAR BEET. DISEASES. Curly top.

Intumescences. See ABNORMAL GROWTH. Intumescences.

IRRIGATION. EFFECT ON PLANT DISEASES.

Brooks, C., and Fisher, D.F. Irrigation experiments on apple-spot diseases. Jour.Agr.Res.12:109-138. 1918. (G-133)

MacMillan, H.G. Fusarium-blight of potatoes under irrigation. Jour.Agr.Res.16:279-304. 1919. (G-174)

Shapovalov, M., and Edson, H.A. Blackleg potato tuber-rot under irrigation. Jour.Agr.Res.22:81-92. 1921. (G-246)

Jonathan fruit spot. See APPLE. DISEASES. Jonathan fruit spot.

JUNIPER. DISEASES.

Phoma sp.

Hahn, G.G., and others. A nursery blight of cedars. Jour.Agr. Res.10:533-540. 1917. (G-118)

Polyporus.

Schrenk, H. von. Two diseases of red cedar, caused by Polyporus juniperinus n.sp. and Polyporus carneus Nees. A preliminary report. Div.Veg.Physiol.& Path.Bul.21, 22 p. 1900.

Kalmia latifolia. Diseases. See MOUNTAIN LAUREL.

Kawakamia cyperi. See SEDGE. DISEASES. Kawakamia cyperi.

KEEPING QUALITIES OF FRUITS AND VEGETABLES.

Hawkins, L.A., and Sando, C.E. Effect of temperature on the resistance to wounding of certain small fruits and cherries. Dept.Bul.830, 6 p. 1920.

Ramsey, H.J., and Markell, E.L. The handling and precooling of Florida lettuce and celery. Dept.Bul.601, 29 p. 1917.

See also CRANBERRY. Weather injuries - STORAGE AND TRANSPORTATION ROTS.

Laestadia bidwellii (Synonym of Guignardia bidwellii). See GRAPE. DISEASES. Black rot. Guignardia bidwellii.

LARKSPUR. DISEASES.

Bacterium delphinii.

Bryan, M.K. Bacterial leafspot of Delphinium. Jour.Agr.Res.23: 261-270. 1924. (G-370)

Laurel, Mountain. See MOUNTAIN LAUREL. DISEASES.

Leafhoppers as carriers of plant diseases. See INSECTS AS CARRIERS OF PLANT DISEASES - SUGAR BEET. DISEASES. Curly top. (Stahl)

Lemon. Diseases. See CITRUS. DISEASES.

LEMON. KEEPING QUALITIES.

True, R.H., and Sievers, A.F. Some factors affecting the keeping qualities of American lemons. Bur.Plant Indus.Circ.26, 17 p. 1909.

Lenzites sepiaria. See WOOD DESTROYING FUNGI. Lenzites sepiaria.

LETTUCE. DISEASES.

Jagger, I.C. Diseases affecting greenhouse lettuce. Farm.Bul.1418: 18-20. 1924.

Anthracnose.

Brandes, E.W. Anthracnose of lettuce caused by Marssonina panattoniana. Jour.Agr.Res.13:261-280. 1918. (B-14)

Bacterial.

Brown, N.A. Some bacterial diseases of lettuce. Jour.Agr.Res. 13: 367-388. 1918. (G-144)

Bacterium viridilividum.

Brown, N.A. A bacterial disease of lettuce [Bacterium viridilividum n.sp.]. (A preliminary report) Jour.Agr.Res.4:475-478. 1915. (G-54)

Downy mildew. Bremia lactucae.

Milbrath, D.G. Downy mildew on lettuce in California. Jour.Agr. Res.23:989-994. 1923. (G-293)

Mosaic.

Jagger, I.C. A transmissible mosaic disease of lettuce. Jour.Agr. Res.20:737-740. 1921. (G-219)

Sclerotinia.

Jagger, I.C. Sclerotinia minor, n.sp., the cause of a decay of lettuce, celery, and other crops. Jour.Agr.Res.20:331-334. 1920. (G-211)

Krout, W.S. Control of lettuce drop by the use of formaldehyde. Jour.Agr.Res.23:645-654. 1923. (Mass.-?)

Libocedrus decurrens. Diseases. See INCENSE CEDAR.

LILAC. DISEASES.

Microsphaera.

Taylor, T. The mildew diseases of the lilac. Comr.Agr.Rep.1871: 121-122. 1872.

LILY. DISEASES.

Wood, A.F. The Bermuda lily disease: a preliminary report of investigations. Div.Veg.Physiol.& Path.Bul.14, 15 p. 1897.

LIME. DISEASES.

Pope, W.T. The acid lime fruit in Hawaii. Fungus diseases. Hawaii Agr.Exp.Sta.Bul.49:12-13. 1923.

See also CITRUS. DISEASES.

MALNUTRITION DISEASES.

Woods, A.F. The relation of nutrition to the health of plants. Yearbook 1901:155-176. 1902.

See also CHLOROSIS - CITRUS. DISEASES. Mottled leaf - PHYSIOLOGICAL DISEASES OF PLANTS - PECAN. DISEASES. Rosette - SPINACH. DISEASES. Blight.

MANDRAKE. DISEASES.

Rust.

Dodge, B.O. Expulsion of aecidiospores by the mayapple rust, Puccinia podophylli Schw. Jour.Agr.Res.28:923-926. 1924. (G-368)

MANGO. DISEASES.

Higgins, J.E. The mango in Hawaii. Diseases. Hawaii Agr.Exp.Sta. Bul.12:22-23. 1906.

Anthracnose. Colletotrichum gloeosporicides.

McMurran, S.M. The anthracnose of the mango in Florida. Dept.Bul. 52, 15 p. 1914.

Manihot utillissima. Diseases. See CASSAVA.

MAPLE. DISEASES.

Galloway, B.T. Leaf-spot disease of the maple, Phyllosticta acericola, C. & E. Comm.Agr.Rep.1888:383-386. 1889.

Marssonina panattoniana. See LETTUCE. DISEASES. Anthracnose.

Mayapple rust. See MANDRAKE. DISEASES. Rust.

Melampsora populina. See POPLAR. DISEASES. Leaf rust.

Meliola penzigi. See ORANGE. DISEASES. Sooty mold.

MELON. DISEASES.

Orton, W.A. Spraying for cucumber and melon diseases. Farm.Bul. 251, 24 p. 1905.

See also CUCURBITS. DISEASES - WATERMELON. DISEASES.

Anthracnose. Colletotrichum lagenarium.

Link, G.K.K., and Meier, F.C. Anthracnose of muskmelons. Dept. Circ.217, 4 p. May,1922.

Mercuric chloride. See FUNGICIDES. Mercuric chloride.

Micrococcus amylovorus See PEAR. DISEASES. Blight.

Microsphaera. See LILAC. DISEASES.

MIGNONETTE. DISEASES.

Fairchild, D.G. A mignonette disease (Cercospora resedae, Fckl.) Sec.Agr.Rep.1889:429-432. 1889.

MILLET. DISEASES.

Elliott, C. A bacterial stripe disease of proso millet [Bacterium panici, n.sp.]. Jour.Agr.Res.26:151-160. 1923. (G-332)

Mineral constituents of diseased plants. See DISEASED PLANTS. Physiological reactions.

Mineral residues on sprayed fruits. See SPRAY RESIDUES.

MISTLETOE. ARCEUTHOBIUM.

Korstian, C.F., and Long, W.H. The western yellow pine mistletoe; effect on growth and suggestions for control. Dept.Bul. 1113, 36 p. 1922.

Weir, J.R. Effects of mistletoe on young conifers. Jour.Agr. Res.12:715-718. 1918. (G-138)

---------- Larch mistletoe: some economic considerations of its injurious effects. Dept.Bul.317, 27 p. 1916.

MUSTARD. DISEASES.

Mosaic.

Schultz, E.S. A transmissible mosaic disease of Chinese cabbage, mustard, and turnip. Jour.Agr.Res.22:173-178. 1921. (G-248)

Mycogone perniciose. See MUSHROOM. DISEASES. Mycogone.

Mycosphaerella gossypina. See COTTON. DISEASES. Mycosphaerella gossypina.

NASTURTIUM. DISEASES.

Brown, N.A., and Jamieson, C.O. A bacterium causing a disease of sugar-beet and nasturtium leaves. [Bacterium aptatum n.sp.]. Jour. Agr.Res.1:189-210. 1913. (G-5)

Bryan, M.K. A nasturtium wilt caused by Bacterium solanacearum. Jour.Agr.Res.4:451-458. 1915. (G-53)

NEMATODE DISEASES.

Cobb, N.A. Estimating the nema population of soil, with special reference to the sugar-beet and root-gall nemas, Heterodera Schachtii Schmidt and Heterodera radicicola (Greef) Miller, and with a description of Tylencholaimus aequalis n.sp. Bur.Plant Indus.Agr.Tech.Circ.1, 48 p. 1918.

Steiner, G. On some plant parasitic nemas and related forms. Jour.Agr.Res.28:1059-1066. 1924. (G-470)

See also subhead Nematodes under ALFALFA - BANANA - CEREALS - CITRUS - DANDELION - POTATO - SUGAR BEET - SUGAR CANE - WHEAT - WILD PLANTS. See also ROOT KNOT.

Apholenchus. See COCO PALM. DISEASES. Red ring.

Tylenchus dipsaci.

Godfrey, G.H. Dissemination of the stem and bulb infesting nematode, Tylenchus dipsaci, in the seeds of certain composites. Jour.Agr.Res.28:473-478. 1924. (G-395)

---------- and McKay, M.B. The stem nematode Tylenchus dipsaci on wild hosts in the Northwest. Dept.Bul.1229, 8 p. 1924.

See also ALFALFA. DISEASES. Nematodes.

Tylenchus penetrans.

Cobb, N.A. A new parasitic nema, [Tylenchus penetrans n.sp.], found infesting cotton and potatoes. Jour.Agr.Res.11:27-33. 1917. (G-121)

Neocosmospora. See WATERMELON. DISEASES. Vine wilt.

Neocosmospora vasinfecta. See COTTON. DISEASES. Wilt. Neocosmospora vasinfecta - COWPEA. DISEASES. Wilt.

Neocosmospora vasinfecta var. tracheiphila. See COWPEA. DISEASES. Wilt.

NURSERY STOCK. DISEASES.

Galloway, B.T. Report on the experiments made in 1891 in the treatment of plant diseases. Div.Veg.Path.Bul.3, 76 p. 1892.

---------- Treatment of diseases of nursery stock. Div.Veg. Path.Bul.3:47-60. 1892.

---------- Treatment of nursery stock for leaf-blight and powdery mildew. Div.Veg.Path.Circ.10, 8 p. 1891.

OATS. DISEASES. (Cont.)

Rust. Puccinia coronata.

Dietz, S.M. The role of the genus Rhamnus in the dissemination of crown rust. Dept.Bul.1162, 19 p. 1923.

Rust. Puccinia graminis avenae.

Mackie, W.W., and Allen, R.F. The resistance of oat varieties to stem rust. Jour.Agr.Res.28:705-720. 1924. (G-421)

Stakman, E.C., and others. Biologic forms of Puccinia graminis on varieties of Avena spp. Jour.Agr.Res.24:1013-1018. 1923. (G-315)

Smut. Ustilago avenae.

Bartholomew, L.K., and Jones, E.S. Relation of certain soil factors to the infection of oats by loose smut. Jour.Agr.Res.24:569-575. 1923. (G-301)

Jones, E.S. Influence of temperature, moisture, and oxygen on spore germination of Ustilago avenae. Jour.Agr.Res.24:577-591. 1923. (G-302)

Swingle, W.T. The prevention of stinking smut of wheat and loose smut of oats. Farm.Bul.250, 16 p. 1906.

---------- Treatment of smuts of oats and wheat. Farm.Bul.5, 8 p. 1892.

Smut. Ustilago levis.

Stanton, T.R., and others. Markton, an oat variety immune from covered smut. Dept.Circ.324, 8 p. 1924.

See also CEREALS. DISEASES. Smut.

Take-all. Legislation. See CEREALS. DISEASES. Take-all. Legislation.

OIDIUM. See GRAPE. DISEASES. Powdery mildew. Oidium.

Oidium tuckeri. See GRAPE. DISEASES. Erysiphe tuckeri.

OKRA. DISEASES.

Podspot.

Harter, L.L. A hitherto-unreported disease of okra [Ascochyta abelmoschi, n.sp.]. Jour.Agr.Res.14:207-212. 1918. (G-148)

Wilt.

Carpenter, C.W. Wilt diseases of okra and the Verticillium-wilt problem. Jour.Agr.Res.12:529-546. 1918. (G-137)

See also TRUCK CROPS. DISEASES.

OLIVE. DISEASES.

Kinman, C.F. Olive growing in the southwestern United States. Insects and diseases. Farm.Bul.1249:39-43. 1922.

Knot.

Smith, E.F. Recent studies of the olive-tubercle organism. [Bacterium Savastanoi (nov.nom.,nov.descript.)]. Bur.Plant Indus.Bul. 131:25-43. 1908.

ONION. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Walker, J.C., and Lindegren, C.C. Further studies on the relation of onion scale pigmentation to disease resistance. Jour.Agr.Res. 29(1924):507-514. 1925. (G-438)

ONION. DISEASES.

Beattie, W.R. Onion culture. Smut; downy mildew. Farm.Bul.354: 33-35. 1909.

ONION. DISEASES. (Cont.)

Taylor, T. Onion-blight and smut (Genus peronospora). Month. Rep. 1872:449-451 (Ann. Rep. 1872:193-195, 1874).

Walker, J.C. Observations on the cultivation and diseases of cabbage and onions in Europe, 1922. Plant Dis. Reporter Suppl. 32, 34 p. 1924. [Mimeographed]

---------- Onion diseases and their control. Farm. Bul. 1060, 28 p. 1919. Rev. 1922.

See also TRUCK CROPS. DISEASES.

Fusarium cepae.

Walker, J.C., and Tims, E.C. A Fusarium bulb rot of onion and the relation of environment to its development. Jour. Agr. Res. 28: 683-694. 1924. (G-381)

Smudge. Colletotrichum circinans.

Walker, J.C. Disease resistance to onion smudge. Jour. Agr. Res. 24:1019-1040. 1923. (G-316)

---------- Onion smudge. Jour. Agr. Res. 20:685-722. 1921. (G-218)

Smut. Urocystis cepulae.

Walker, J.C., and Jones, L.R. Relation of soil temperature and other factors to onion smut infection. Jour. Agr. Res. 22:235-262. 1921. (G-250)

Oospora lactis. See TOMATO. DISEASES. Watery rot. Oospora lactis.

Oospora scabies. See POTATO. DISEASES. Scab.

Ophiobolus. See CEREALS. DISEASES. Take-all - WHEAT. DISEASES. Take-all.

ORANGE. DISEASES.

Webber, H.J. Fertilization of the soil as affecting the orange in health and disease. Yearbook 1894:193-202. 1895.

See also CITRUS. DISEASES.

Blight.

Taylor, T. Orange blight. Mo. Rep. 1873:588-594 (Ann. Rep. 1873: 200-207, 1874).

Melanose.

Grossenbacher, J.G. Experiments on the decay of Florida oranges. Bur. Plant Indus. Circ. 124:17-28. 1913.

Sooty mold.

Webber, H.J. Sooty mold of the orange and its treatment. Div. Veg. Physiol. & Path. Bul. 13, 44 p. 1897.

---------- Treatment for sooty mold of the orange. Div. Veg. Path. Circ. 15, 4 p. 1895.

Stemphylium citri.

Patterson, F.W., and Charles, V.K. A new species of Stemphylium on oranges. Bur. Plant Indus. Bul. 171:13-14. 1910.

Storage and transportation rots.

Mann, C.W. The relation of washing to decay in Washington navel oranges; season of 1914-15. Bur. Plant Indus. [Unnumbered Doc.], 4 p. [1915]

Powell, G.H., and others. The decay of oranges while in transit from California. Bur. Plant Indus. Bul. 123, 79 p. 1908.

PARASITISM AND DISEASE RESISTANCE. (Cont.)

Harrington, J.B., and Aamodt, O.S. The mode of inheritance of resistance to Puccinia graminis with relation to seed color in crosses between varieties of Durum Wheat. Jour.Agr.Res.24:979-996. 1923. (G-313)

Harter, L.L., and Weimer, J.L. Studies in the physiology of parasitism with special reference to the secretion of pectinase by Rhizopus tritici. Jour.Agr.Res.21:609-625. 1921. (G-240)

Hawkins, L.A. Growth of parasitic fungi in concentrated solutions. Jour.Agr.Res.7:255-260. 1916. (G-97)

Hays, H.K., and Aamodt, O.S. A study of rust resistance in a cross between Marquis and Kota wheats. Jour.Agr.Res.24:997-1012, 1923. (G-314)

Peltier, G.L., and Frederich, W.J. Further studies on the relative susceptibility to citrus canker of different species and hybrids of the genus Citrus, including the wild relatives. Jour.Agr. Res.28:227-239. 1924. (Ala.-9).

Riker, A.J. Some morphological responses of the host tissue to the crowngall organism. Jour.Agr.Res.26(1923):425-436. 1924. (Wis.-25)

---------- Some relations of the crowngall organism to its host tissue. Jour.Agr.Res.25:119-132. 1923. (Wis.-22)

Rosen, H.R., and Elliott, J.A. Pathogenicity of Ophiobolus cariceti in its relationship to weakened plants. Jour.Agr.Res.25: 351-358. 1923. (Ark.-4)

Stakman, E.C. Relation between Puccinia graminis and plants highly resistant to it's attack. Jour.Agr.Res.4:193-200. 1915. (Minn.-4)

See also DISEASED PLANTS. Physiological reactions - PLANT DISEASES. Antitoxins - RESISTANT VARIETIES. Breeding.

PASPALUM DILATATUM. DISEASES.

Brown, H.B. Life history and poisonous properties of Claviceps paspali. Jour.Agr.Res.7:401-406. 1916. (Miss.-1)

PEA. DISEASES.

Corticium vagum.

Richards, B.L. Soil temperature as a factor affecting the pathogenicity of Corticium vagum on the pea and the bean. Jour.Agr. Res.25:431-450. 1923. (Utah.-18)

Fusarium martii var. pisi.

Jones, F.R. Stem and rootrot of peas in the United States caused by species of Fusarium. Jour.Agr.Res.26(1923):459-476. 1924. (G-342)

See also TRUCK CROPS. DISEASES.

PEACH. DISEASES.

Saunders, W. The peach-leaf blister. Comr.Agr.Rep.1885:37-42,1885; 1891:470, 1892.

Scott, W.M., and Ayres, T.W. The control of peach brown-rot and scab. Bur.Plant Indus.Bul.174, 31 p. 1910.

---------- and Quaintance, A.L. Spraying peaches for the control of brown-rot, scab, and curculio. Farm.Bul.440, 40 p. 1911.

Smith, E.F. Additional evidence on the communicability of peach yellows and peach rosette. Div.Veg.Path.Bul.1, 65 p. 1891.

---------- Peach growing for market. Fungous diseases. Farm.Bul. 33:14-15. 1895.

PEACH. DISEASES (Cont.)

Smith, E.F. Peach yellows and peach rosette. Sec.Agr.Rep. 1892:235-238. 1893.

---------- Peach yellows and peach rosette. Farm. Bul.17, 20 p. 1894.

Snapp, O.I., and others. Controlling the curculio, brown-rot, and scab in the peach belt of Georgia. Dept.Circ.216, 30 p. 1922.

Bacterium pruni.

Roberts, J.W. Control of peach bacterial spot in southern orchards. Dept.Bul.543, 7 p. 1917.

Botrytis.

Lindegren, C.C., and Rose, D.H. Two hitherto unreported diseases of stone fruits. Jour.Agr.Res.28:603-605. 1924. (G-405)

Brown rot. Sclerotinia fructigena.

Scott, W.M., and Quaintance, A.L. Control of the brown-rot and plum curculio on peaches. Bur.Ent.Circ.120, 7 p. 1910.

See also PEACH. DISEASES.

Bud rot. Fusarium gemmiperda.

Roberts, J.W. A budrot of the peach caused by a species of Fusarium. Jour.Agr.Res.26(1923):507-512. 1924. (G-343)

Leafcurl. Exoascus deformans.

Pierce, N.B. Peach leaf curl: its nature and treatment. Div. Veg.Physiol. & Path.Bul.20, 204 p. 1900.

Rosette.

McClintock, J.A. Peach rosette, an infectious mosaic. Jour.Agr. Res.24:307-316. 1923. (Ga.-3)

See also PEACH. DISEASES. (Smith)

Scab. Cladosporium carpophilum.

Keitt, G.W. Peach scab and its control. Dept.Bul.395, 66 p. 1917.

See also PEACH. DISEASES.

Yellows.

Smith, E.F. Experiments with fertilizers for the prevention and cure of peach yellows, 1889-92. Div.Veg.Path.Bul.4, 197 p. 1893.

---------- Peach yellows: a preliminary report. Div.Bot. (Sect. Veg.Path.)Bul.9, 254 p. 1888.

---------- Report on peach yellows. Comr.Agr.Rep.1888:393-398. 1889.

Taylor. T. Yellows of the peach. Month.Rep.1872:387-389 (Ann.Rep. 1872:195-198.)

See also PEACH. DISEASES (Smith)

PEANUT. DISEASES.

Leaf blight. Cercospora personata.

Beattie, W.R. Peanuts. Diseases. Farm.Bul.356:38-39. 1909. Superseded by Farm.Bul.431:37-38. 1911.

Leaf spot. Cercospora personata.

Wolf, F.A. Further studies on peanut leafspot. Jour.Agr.Res.5: 891-902. 1916. (Ala.-1)

Wilt. Sclerotium rolfsii.

McClintock, J.A. Peanut-wilt caused by Sclerotium rolfsii. Jour. Agr.Res.8:441-448. 1917. (Va.-2)

PEAR. DISEASES.

Fisher, D.F., and Newcomer, E.J. Controlling important fungous and insect enemies of the pear in the humid sections of the Pacific Northwest. Farm.Bul.1056, 34 p. 1919.

Galloway, B.T. Experiments in the treatment of pear leaf-blight, cracking, and scab. Div.Veg.Path.Bul.3:36-47. 1892.

---------- Report on the experiments made in 1891 in the treatment of plant diseases. Div.Veg.Path.Bul.3, 76 p. 1892.

Saunders, W. Pear-tree blight and cracking of pears. Comr.Agr. Rep.1885:42-45, 1885; 1892:381-382, 397-398, 1893.

Southworth, E.A. Leaf-blight and cracking of the pear. Entomosporium maculatum, Lév. Comr.Agr.Rep.1888:357-364. 1889.

Blight. Baccillus amylovorus.

Arthur, J.C. Pear blight. Micrococcus amylovorus Bar. Comr.Agr. Rep.1886:125-129. 1887.

Taylor, T. Pear-tree blight. Month.Rep.1872:225-229 (Ann.Rep. 1872:183-192, 1874).

Waite, M.B. The cause and prevention of pear blight. Yearbook 1895:295-300. 1896.

See also PEAR. DISEASES.

Leaf blight. Entomosporium maculatum.

Galloway, B.T. Experiments in the treatment of pear leaf-blight and apple powdery mildew. Sect.Veg.Path.Circ.8, 11 p. 1889.

See also NURSERY STOCK. DISEASES - PEAR. DISEASES.

Storage and transportation rots.

Magness, J.R. The handling, shipping, and cold storage of Bartlett pears in the Pacific coast states. Dept.Bul.1072, 16 p. 1922.

PECAN. DISEASES.

McMurran, S.M., and Demaree, J.B. Diseases of southern pecans. Farm.Bul.1129, 29 p. 1920.

Rand, F.V. Some diseases of pecans. Jour.Agr.Res.1:303-338. 1914. (G-9)

Kernel spot.

Demaree, J.B. Kernel-spot of the pecan and its cause [insect punctures]. Dept.Bul.1102, 15 p. 1922.

Rosette.

McMurran, S.M. Pecan rosette in relation to soil deficiencies. Dept.Bul.756, 11 p. 1919.

Orton, W.A., and Rand, F.V. Pecan rosette. Jour.Agr.Res.3: 149-174. 1914. (G-36)

Rand, F.V. Pecan rosette: its histology, cytology, and relation to other chlorotic diseases. Dept.Bul.1038, 42 p. 1922.

Scab. Fusicladium effusam.

Demaree, J.B. Pecan scab with special reference to sources of the early spring infections. Jour.Agr.Res.28:321-330. 1924. (G-391)

Wood rot.

McMurran, S.M. Preventing wood rot in pecan trees. Farm.Bul. 995, 8 p. 1918.

PECTINASE (ENZYMES)

Harter, L.L., and Weimer, J.L. A comparison of the pectinase produced by different species of Rhizopus. Jour.Agr.Res.22: 371-377. 1921. (G-254)

See also PARASITISM AND DISEASE RESISTANCE.

PELARGONIUM. DISEASES.

Brown, N.A. Bacterial leafspot of geranium [Bacterium pelargoni, n.sp.]. in the eastern United States. Jour.Agr.Res.23: 361-372, 1923. (G-276)

Pellicularia koleroga. See COFFEE. DISEASES. Pellicularia koleroga.

Penicillium. See CITRUS. DISEASES. Blue mold.

PEONY. DISEASES.

Patterson, F.W., and Charles, V.K. Diseases of two ornamental plants caused by species of Botrytis. Bur.Plant Indus.Bul.171: 11-12. 1910.

Peridermium cerebrum. See CRONARTIUM CEREBRUM.

Peridermium filamentosum. See NURSERY STOCK. DISEASES. Peridermium filamentosum.

Peridermium fusiforme. See CRONARTIUM CEREBRUM.

Peridermium pyriforme. See PINE. DISEASES. Rust.

Peridermium strobi. See WHITE PINE. DISEASES. Blister rust.

Peronospora. See POTATO. DISEASES. Late blight. - TOBACCO. DISEASES. Blue mold.

Peronospora viticola (synonym of Plasmopara viticola.) See GRAPE. DISEASES. Downy mildew. Plasmopara viticola.

Persea gratissima. See AVOCADO.

Pestalozzia palmarum. See COCO PALM. DISEASES. Pestalozzia palmarum.

Phoma sp. See JUNIPER. DISEASES. Phoma sp.

Phoma betae. See SUGAR BEET. DISEASES. Damping off - SUGAR BEET. DISEASES. Phoma betae.

Phoma destructiva. See TOMATO. DISEASES. Phoma destructiva.

Phoma lingam. See CABBAGE. DISEASES. Black leg.

Phoma musae. See BANANA. DISEASES. Freckle.

Phoma solani (synonym of Phomopsis vexans). See EGG PLANT. DISEASES. Leaf spot.

Phoma tuberosa. See POTATO. DISEASES. Dry rot.

Phomopsis citri. See CITRUS. DISEASES. Stem end rot.

Phomopsis mali. See APPLE. DISEASES Rough bark.

Phomopsis vexans. See EGG PLANT. DISEASES. Phomopsis vexans.

Phoradendron. See MISTLETOE. PHORADENDRON.

Phragmidium mucronatum. See ROSE. DISEASES.

Phragmidium speciosum. See ROSE. DISEASES.

PHYCOMYCES NITENS.

Swingle, D.B. Formation of the spores in the sporangia of Rhizopus nigricans and of Phycomyces nitens. Bur.Plant Indus.Bul.37, 40 p. 1903.

Phyllostachys. Diseases. See BAMBOO.

Phyllosticta. See APPLE. DISEASES. Phyllosticta.

PINE. DISEASES. (Cont.)

Rust. Cronartium pyriforme.

Hedgcock, G.G., and Long, W.H. A disease of pines caused by Cronartium pyriforme. Dept.Bul.247, 20 p. 1915.

Rust. Peridermium pyriforme.

Hedgcock, G.G., and Long. W.H. Two new hosts for Peridermium pyriforme. Jour.Agr.Res.5:289-290. 1915. (G-65)

Western red rot.

Long, W.H. A preliminary report on the occurrence of western red-rot in Pinus ponderosa. Dept.Bul.490, 8 p. 1917.

Pine. Mistletoe injury. See MISTLETOE. ARCEUTHOBIUM.

PINEAPPLE. DISEASES.

Henricksen, H.C., and Iorns, M.J. Pineapple growing in Porto Rico. Diseases. Porto Rico Agr.Exp.Sta.Bul.8:38-42. 1909.

Vosbury, E.D., and Winston, J.R. Pineapple culture in Florida. Diseases. Farm.Bul.1237:27-31. 1921.

Chlorosis.

Gile, P.L. Relation of calcareous soils to pineapple chlorosis. Porto Rico Agr.Exp.Sta.Bul.11, 45 p. 1911.

Johnson, M.O. Manganese chlorosis of pineapples: its cause and control. Hawaii Agr.Exp.Sta.Bul.52, 38 p. 1924.

Thielaviopsis paradoxa.

Patterson, F.W., and others. Pineapple rot caused by Thielaviopsis paradoxa. Bur.Plant Indus.Bul.171:15-35. 1910.

Yellows.

Johnson, M.O. The spraying of yellow pineapple plants on manganese soils with iron sulphate solutions. Hawaii Agr. Exp.Sta. Press Bul.51, 11 p. 1916.

PLANT DISEASE ORGANISMS. TEMPERATURE INFLUENCES.

Bartram, H.E. Effect of natural low temperature on certain fungi and bacteria. Jour.Agr.Res.5:651-655. 1916. (Vt.-1)

Brooks, C., and Cooley, J.S. Temperature relations of stone fruit Fungi. Jour.Agr.Res.22:451-465. 1921. (G-256)

Edson, H.A., and Shapovalov, M. Temperature relations of certain potato-rot and wilt-producing fungi. Jour.Agr.Res.18:511-524. 1920. (G-183)

Fawcett, H.S. Some relations of temperature to growth and infection in the citrus scab fungus Cladosporium citri. Jour.Agr. Res.21:243-253. 1921. (Calif.-30)

Jones, E.S. Influence of temperature on the spore germination of Ustilago zeae. Jour.Agr.Res.24:593-597. 1923. (G-303)

Lauritzen, J.I., and Harter, L.L. Species of Rhizopus responsible for the decay of sweet potatoes in the storage house and at different temperatures in infection chambers. Jour.Agr.Res.24:441-456. 1923. (G-298)

Peltier, G.L. Influence of temperature and humidity on the growth of Pseudomonas citri and its host plants and on infection and development of the disease. Jour.Agr.Res.20:447-506. 1920. (Ala.-7)

Weimer, J.L., and Harter, L.L. Temperature relations of eleven species of Rhizopus. Jour.Agr.Res.24:1-40. 1923. (G-294)

See also PLANT DISEASES. Climatic factors.

PLANT DISEASE SURVEYS.

Bureau of plant industry. Plant disease survey. Plant disease reporter. Ag.15,1917-1924. Vol.1-8. (Vol.1-6, title: Plant disease bulletin) Supplement 1-30, 32-36. Summary of plant diseases in the United States 1918-1923. 1919-1924. [Mimeographed]

Weir, J.R., and Hubert, E.E. Forest disease surveys. Dept. Bul.658, 23 p. 1918.

PLANT DISEASES.

Antitoxins.

Mallmann, W.L., and Hemstreet, C. Isolation of an inhibitory substance from plants. Jour.Agr.Res.28:599-602. 1924. (Mich.-14)

Climatic factors.

Halsted, B.D. Relations of climate and rainfall to the prevalence of fungus diseases. Off.Exp.Sta.Bul.65:126-127. 1899.

Pool, V.W., and McKay, M.B. Climatic conditions as related to Cercospora beticola. Jour.Agr.Res.6:21-60. 1916. (G-75)

Rosenbaum, J., and Ramsey, G.B. Influence of temperature and precipitation on the blackleg of potato. Jour.Agr.Res.13:507-513. 1918. (G-145)

Stevens, N.E. Temperatures of the cranberry regions of the United States in relation to the growth of certain fungi. Jour.Agr.Res. 11:521-529. 1917. (G-127)

Walker, J.C. Seed treatment and rainfall in relation to the control of cabbage black-leg. Dept.Bul.1029, 27 p. 1922.

See also MOISTURE CONDITIONS. EFFECT ON PLANT DISEASES. - PLANT DISEASE ORGANISMS. TEMPERATURE INFLUENCES - PLANT DISEASES. Environmental conditions.

Control.

Galloway, B.T. The health of plants in greenhouses. Yearbook 1895: 247-256. 1896.

Meier, F.C. Extension work in plant pathology, 1923. Dept.Circ. 329, 19 p. 1924.

Orton, W.A., and Chittenden, F.H. Control of diseases and insect enemies of the home vegetable garden. Farm.Bul.856, 72 p. 1917.

Stewart, F.C. Progress in the control of fungus and bacterial plant diseases. Off.Exp.Sta.Bul.196:96-99. 1907.

See also FRUIT AND FRUIT TREES. DISEASES. Control - GRAPE. DISEASES. Control - PLANT DISEASES - PLANT DISEASES. Legislation - SEED TREATMENT - SPRAYING.

Dissemination.

Dietz, S.M. The role of the genus Rhamnus in the dissemination of crown rust. Dept.Bul.1162, 19 p. 1923.

Faulwetter, R.C. Dissemination of the angular leafspot of cotton. Jour.Agr.Res.8:457-475. 1917. (S.C.-1)

McKay, M.B. Transmission of some wilt diseases in seed potatoes. Jour.Agr.Res.21:821-848. 1921. (Oreg.-6)

See also FUNGUS SPORES. DISSEMINATION - INSECTS AS CARRIERS OF PLANT DISEASES - PLANT DISEASES. Introduction - SEEDS. INFECTION.

PLANT DISEASES (Cont.)

Environmental conditions.

McMurtrie, W. On the condition in nature which may influence or tend to the production of mildew and rot. Comr.Agr.Rep. 1877: 81-89. 1878.

Peltier, G.L., and Frederich, W.J. Relation of environmental factors to citrus scab caused by Cladosporium citri Massee. Jour.Agr.Res. 28:241-254. 1924. (Ala.-10)

Stone, G.E. The relation of cultural conditions to plant diseases. Off.Exp.Sta.Bul.196:110-112. 1907.

See also PLANT DISEASES. Climatic factors - SOIL CONDITIONS. Effect on plant diseases.

Inspection. See PLANT DISEASES. Legislation.

Introduction.

Field, E.C. Fungous diseases liable to be disseminated in shipments of sugar cane. Bur.Plant Indus.Circ.126:3-13. 1913.

Orton, W.A., and Field, E.C. Wart disease of the potato; a dangerous European disease liable to be introduced into the United States. Bur.Plant Indus.Circ.52, 11 p. 1910.

Spaulding, P., and Field, E.C. Two dangerous imported plant diseases. Farm.Bul.489, 29 p. 1912.

Stuart, W., and Orton, W. A. The danger of using foreign potatoes for seed. Bur.Plant Indus.Circ.93, 5 p. 1913.

Legislation. United States.

The Department of agriculture in relation to a national law to prevent the importation of insect-infested or diseased plants. Off.Sec.Circ.37, 11 p. 1911.

Federal Horticultural Board. Notice of quarantine [against plant diseases]. No.1,3,7,11,14,15,19,21,24,26,28,34,37-39,41,44. 1912-1920.

---------- Service and regulatory announcements. Jan. 1914 - Dec.1924. 1914-1924. (S.R.A.1-80)

Galloway, B.T. Plant diseases and the possibility of lessening their spread by legislation. [Dept.Rep.57]:8-11. 1897.

Martin, J.F., and Pierce, R.G. Laws affecting currants and gooseberries. Synopsis of laws and quarantine regulations of the various states and of the United States and Canada bearing on the control of the white-pine blister rust... Farm.Bul.1024:37-40. 1919. Rev.1922.

National convention for the suppression of insect pests and plant diseases by legislation. Proceedings 1897. ed. by B.T. Galloway. [Dept.Rep.87], 31 p. 1897.

Nursery stock, plant, and seed quarantine, with regulations. (Effective Jun.1,1919) Fed.Hort.Bd.Not.Quar.37, 14 p., Nov.18,1918. Amendments 1-3, 1919. Revised (Effective Aug.1,1921), 14 p.,Jun. 10,1921. Amendments 1-3, 1922-1923. Second revision (Effective Apr.5,1923), 15 p.,Apr.5,1923. Amendments 1-3, 1924-1925. Reprinted in Service & Regulatory Announcements, 1918-1924.

PLANT DISEASES (Cont.)
Legislation (Cont.)
Rules and regulations for carrying out the plant quarantine act. Off.Sec.Circ.44, 16 p. 1913.
Smith, E.F. Legal enactments for the restriction of plant diseases. A compilation of the laws of the United States and Canada. Div.Veg.Physiol. and Path.Bul.11, 45 p. 1896.
Spaulding, P., and Field, E.C. Two dangerous imported plant diseases. Farm.Bul.489, 29 p. 1912.
Stocks, cuttings, scions, and buds of fruits quarantine (Effective Jun.1,1920). Fed.Hort.Bd.Not.Quar.44 2 p.,Mar.24,1920. Reprinted in S.R.A.Jan./Apr.1920.
See also BAMBOO. DISEASES. Smut. Legislation - BARBERRY ERADICATION - CEREALS. DISEASES. Take-all. - CITRUS DISEASES. Canker. Legislation - CURRANT ERADICATION. - MAIZE. LEGISLATION.- PLANT DISEASES. Introduction - POTATO. DISEASES. Powdery mildew. Legislation - POTATO. DISEASES. Wart disease. Legislation - POTATO. LEGISLATION - SUGAR CANE. LEGISLATION - WHEAT. DISEASES. Smut (Flag smut). Legislation - WHITE PINE. DISEASES. Blister rust. Legislation.
Spread. See INSECTS AS CARRIERS OF PLANT DISEASES - PLANT DISEASES. Dissemination.
Weather influences. See PLANT DISEASES. Climatic factors.
See also BACTERIAL DISEASES OF PLANTS - CROP LOSSES DUE TO PLANT DISEASES - CROP ROTATION AND PLANT DISEASES - DISEASED PLANTS. Physiological reactions - MALNUTRITION DISEASES - PHYSIOLOGICAL DISEASES OF PLANTS - PLANT PATHOLOGY - TROPICAL PLANTS. DISEASES.
PLANT DISEASES. (Geographical arrangement)
Alaska.
Anderson, J.P. Fungus diseases. Rep.Alaska Agr.Exp.Sta.1914: 26-27. 1915.
Cuba.
Busck, A. Report of an investigation of diseased cocoanut palms in Cuba. Div.Ent.Bul.n.s. 38:20-23. 1902.
Europe.
Allen, J.F. Remarks on the grape disease of Europe. Comr. Patents Rep.Agr. 1854:311-312. 1855.
Erni, H. The grape disease in Europe; its origin, history, phenomena and cure. Comr.Patents Rep.Agr. 1865:324-338. 1866.
Moir, W.S. White-pine blister rust in western Europe. Dept. Bul.1186, 32 p. 1924.
Pike, N. The grape disease in Europe. Comr.Patents Rep.Agr. 1853:311-313. 1854. (With comment by D.J.Browne)
Potato rot in Europe. Comr.Patents Rep.1845:548-688. 1846.
Walker, J.C. Observations on the cultivation and diseases of cabbage and onions in Europe, 1922. Plant Dis.Reporter Suppl. 32, 34 p. 1924. [Mimeographed]

PLANT DISEASES (Geographical arrangement. Cont.)

France.

Chauzit, B. Treatments for mildew in France in 1887. [Translated] from Progres agricole et viticole Nov.6,1887. Bot.Div.(Sect. Veg.Path.)Bul.5:75-85. 1888.

Frechou, Treatment of black-rot in France. [Abstract in English from report to the prefect of Lot.et-Garonne] Bot.Div.(Sect. Veg.Path.)Bul.11:88-93. 1890.

Prillieux, E.E. Report on the treatment of mildew in Médoc. [Translated from Bulletin de la Société centrale d'agriculture... Hérault, 1886.] Bot.Div.(Sect.Veg.Path.)Bul.2:83-88. 1886.

---------- Results of experiments in the treatment of black rot made at Aiguillon, France, in 1888. Bot.Div.(Sect.Veg.Path.) Bul.10:49-55. 1889.

Guam.

Weston, W.H. Report on the plant disease situation in Guam. Guam Agr.Exp.Sta.Rep.1917:45-62. 1918.

Hawaii.

Carpenter, C.W. Potato diseases in Hawaii and their control. Hawaii Agr.Exp.Sta.Bul.45, 42 p. 1920.

---------- Preliminary report on root rot in Hawaii. (Lahaina cane deterioration, pineapple wilt, taro rot, rice root rot, banana root rot.) Hawaii Agr.Exp.Sta.Press Bul.54, 8 p. 1919.

Higgins, J.E. The mango in Hawaii. Diseases. Hawaii Agr.Exp. Sta.Bul.12:22-23. 1906.

Smith, J.G. Report on agricultural investigations in Hawaii, 1905. Diseases of plants. Off.Exp.Sta.Bul.170:64-65. 1906.

---------- Two plant diseases in Hawaii. Hawaii Agr.Exp. Sta. Press Bul.9, 6 p. .1904.

Philippine Islands.

Reinking, O.A. Comparative study of Phytophthora faberi on coconut and cacao in the Philippine Islands. Jour.Agr.Res.25: 267-284. 1923. (G-324)

Weston, W.H. Another conidial Sclerospora of Philippine maize. Sclerospora spontanea n.sp.]. Jour.Agr.Res.20:669-684. 1921. (G-317)

---------- Philippine downy mildew of maize. Jour.Agr.Res. 19:97-122. 1920. (G-189)

---------- Production and dispersal of conidia in the Philippine sclerosporas of maize. Jour.Agr.Res.23:239-278. 1923. (G-271)

Porto Rico.

Earle, F.S. Report on observations in Porto Rico. Notes on diseases and insects. Porto Rico Agr.Exp.Sta.Ann.Rep.1903:456-468.

Fawcett, G.L. Fungus diseases of coffee in Porto Rico. Porto Rico Agr.Exp.Sta.Bul.17, 29 p. 1915. (Spanish edition: Enfermedades del cafe causadas por hongos en Puerto Rico. 1916.)

---------- Pellicularia koleroga on coffee in Porto Rico. Jour.Agr.Res.2:231-233. 1914. (B-2)

McClelland, T.B. The coffee leaf spot (Stilbella flavida) in Porto Rico. Porto Rico Agr.Exp.Sta.Bul.28, 12 p. 1921.

PLANT DISEASES. (Geographical arrangement. Cont.)

United States.

Bureau of plant industry. Plant disease survey. Plant disease reporter. Ag.15,1917-1924. Vol.1-8 (Vol.1-6, title: Plant disease bulletin) Supplement 1-30,32-36. Summary of plant diseases in the United States 1918-1923. 1919-1924. [Mimeographed]

Galloway, B.T. Division of vegetable physiology and pathology. Yearbook 1897:99-111. 1898.

---------- Progress in the treatment of plant diseases in the United States. Yearbook 1899:191-200. 1900.

---------- Report of the chief of the Division of vegetable physiology and pathology. Dept.Agr.Ann.Rep. 1890-1900.

---------- Report of the section of vegetable pathology. Comr.Agr.Rep 1888-1889.

---------- Report on the experiments made in 1889 in the treatment of the fungous diseases of plants. Bot.Div.(Sect.Veg. Path.)Bul.11, 119 p. 1890.

---------- Report on the experiments made in 1891 in the treatment of plant diseases. Div.Veg.Path.Bul.3, 76 p. 1892.

---------- Section of vegetable pathology. Bot.Div.Bul.8: 41-67. 1889.

Orton, W. A. Crop rotation in the southern states as influenced by plant diseases. Off.Exp.Sta.Bul.142:160-166. 1904.

---------- Plant diseases in the United States in 1901-1908. Yearbook 1901:668-672; 1902:714-719; 1903:550-555; 1904:581-586; 1905:602-611; 1906:499-508; 1907:577-589 (With A.Ames); 1908; 533-538 (With A.Ames). 1902-1909.

Saunders, W. Report of Superintendent of gardens and grounds. Comr.Agr.Rep. 1883, 1885, 1887, 1889, 1891, 1892.

Scribner, F.L. Fungous diseases of plants. Comr.Agr.Rep.1885: 76-88. 1885.

---------- Report of the mycological section. Comr.Agr.Rep. 1886:95-138. 1887.

Taylor, T. Microscopic investigations. [Report on fungous diseases] Dept.Agr.Month.Rep.1872-1876. (Reprinted with some additions and changes in Comr.Agr.Rep.1872-1876.)

---------- Report on fungoid diseases of plants. Comr.Agr. Rep.1871:110-122. 1872.

Woods, A.F. Work in vegetable physiology and pathology. Yearbook 1898:261-266. 1899.

Arizona.

King, C.J. Cotton rootrot in Arizona. Jour.Agr.Res.23:525-527. 1923. (G-281)

Arkansas.

Long, W.H. Investigations of the rotting of slash in Arkansas. Dept.Bul.496, 15 p. 1917.

California.

Ballard, W.S., and Volck, W.H. Apple powdery mildew and its control in the Pajaro Valley. Dept.Bul.120, 26 p. 1914.

PLANT DISEASES (Geographical arrangement. Cont.)

California (Cont.)

Meinecke, E.P. Forest tree diseases common in California and Nevada. A manual for field use. Forest Serv. [Unnumbered Publ.], 67 p. 1914.

Milbrath, D.G. Downy mildew on lettuce in California. Jour.Agr. Res.23:989-994. 1923. (G-293)

Orton, W.A. Potato diseases in San Joaquin County, California. Bur.Plant Indus.Circ.23, 14 p. 1909.

Florida.

Grossenbacher, J.G. Experiments on the decay of Florida oranges. Bur.Plant Indus.Circ.124:17-28. 1913.

McMurran, S.M. The anthracnose of the mango in Florida. Dept. Bul.52, 15 p. 1914.

Neal, J.C. The root-knot disease of the peach, orange, and other plants in Florida, due to the work of Anguillula. Div.Ent.Bul. 20, 31 p. 1889.

Swingle, W.T., and Webber, H.J. The principal diseases of citrus fruits in Florida. Div.Veg.Physiol. & Path.Bul.8, 42 p. 1896.

Webber, H.J. The two freezes of 1894-95 in Florida, and what they teach. Yearbook 1895:159-174. 1896.

Idaho.

Pratt, O.A. Experiments with clean seed potatoes on new land in southern Idaho. (Preliminary paper) Jour.Agr.Res.6:573-575. 1916. (G-86)

Maine.

Posey, G.B., and Ford, E.R. Survey of blister rust infection on pines at Kittery Point, Maine, and the effect of Ribes eradication in controlling the disease. Jour.Agr.Res.28:1253-1258. 1924. (G-445)

Michigan.

Hawkins, L.A. Grape-spraying experiments in Michigan in 1909. Bur.Plant Indus.Circ.65, 15 p. 1910.

Montana.

Morris, H.E., and Nutting, G.B. Identification of certain species of Fusarium isolated from potato tubers in Montana. Jour.Agr.Res.24: 339-364. 1923. (Mont.-10)

Nevada.

Meinecke, E.P. Forest tree diseases common in California and Nevada. Forest Serv. [Unnumbered Publ.], 67 p. 1914.

Scofield, C.S. The nematode gallworm on potatoes and other crop plants in Nevada. Bur.Plant Indus.Circ.91, 15 p. 1912.

North Carolina.

Stevens, F.L. The history of the tobacco wilt in Granville County, North Carolina. Off.Exp.Sta.Bul.142:166-168. 1904.

Ohio.

Scribner, F.L. Report on the extent, severity and treatment of the black-rot and brown-rot in northern Ohio. Bot.Div.(Sect.Veg. Path.) Bul.11:76-83. 1890.

PLANT DISEASES (Geographical arrangement. Cont.)

Oregon.

Jackson, H.S. An Asiatic species of Gymnosporangium established in Oregon. [Gymnosporangium koreaense nov.comb.] Jour.Agr.Res. 5:1003-1010. 1916. (Ind.-2)

Young, F.D., and Cate, C.C. Damaging temperatures and orchard heating in the Rogue River Valley, Oreg. Mo.Weather Rev.51: 617-639. 1923.

South Dakota.

Schrenk, H. von. The "blueing" and the "red rot" of the western yellow pine, with special reference to the Black Hills forest reserve. Bur.Plant Indus.Bul.36, 40 p. 1903.

Texas.

Heald, F.D., and Wolf, F.A. A plant-disease survey in the vicinity of San Antonio, Texas. Bur.Plant Indus.Bul.236, 129 p. 1912.

Scofield, C.S. Cotton rootrot in the San Antonio rotations. Jour.Agr.Res.21(3):117-125. 1921. (G-224)

Shear, C.L., and Miles, G.F. The control of Texas root-rot of cotton. Bur.Plant Indus.Bul.102:39-42. 1907.

Washington.

Fisher, D.F. Apple powdery mildew and its control in the arid regions of the Pacific Northwest. Dept.Bul.712, 28 p. 1918.

PLANT PATHOLOGY.

Bibliography.

A check list of the publications of the Department of Agriculture on the subject of plant pathology, 1837-1918. Dept.Agr.Library Bibl.Contrib. 1, 38 p. 1919. [Mimeographed]

Check list of publications of the state agricultural experiment stations on the subject of plant pathology, 1876-1920. Dept. Agr.Library Bibl.Contrib. 2, 179 p. 1922. [Mimeographed]

Cultures and culture media.

Hawkins, L.A. Growth of parasitic fungi in concentrated solutions. Jour.Agr.Res.7:255-260. 1916. (G-97)

Kellerman, K.F. The use of Congo red in culture media. Bur. Plant Indus.Circ.130:15-17. 1913.

History.

Galloway, B.T. Progress in the treatment of plant diseases in the United States. Yearbook 1899:191-200. 1900.

Organization.

Galloway, B.T. The pathology of plants: lines of investigation that might be undertaken by experiment stations. Exp.Sta.Rec. 7:725-735. 1896.

See also PLANT DISEASE SURVEYS - PLANT DISEASES. UNITED STATES.
See also BACTERIAL DISEASES OF PLANTS - FOREST PATHOLOGY - PLANT DISEASES.

Plasmodiophora brassicae. See CABBAGE. DISEASES. Club root - CLUB ROOT.

Plenodomus destruens. See SWEET POTATO. DISEASES Plenodomus destruens.

Plenodomus fuscomaculans. See APPLE. DISEASES. Canker. Plenodomus fuscomaculans.

Plowrightia morbosa. See CHERRY. DISEASES Black knot - PLUM. DISEASES. Black knot.

PLUM. DISEASES.

Black knot. Plowrightia morbosa.

Taylor, T. Black-knot of plum and cherry trees. Month.Rep. 1874:52-54,514-516; 1876:353 (Ann.Rep.1873:196-200; 1874: 173-174; 1875:206. 1874-76.)

Blotch. Phyllosticta congesta.

Roberts, J.W. Plum blotch, a disease of the Japanese plum, caused by Phyllosticta congesta Heald and Wolf. Jour.Agr.Res. 22:365-370. 1921. (G-253)

Brown rot. Sclerotinia cinerea.

Brooks, C., and Fisher, D.F. Brown-rot of prunes and cherries in the Pacific Northwest. Dept.Bul.368, 10 p. 1916.

---------- and Fisher, D.F. Prune and cherry brown-rot investigations in the Pacific Northwest. Dept.Bul.1252, 22 p. 1924.

Fisher, D.F., and Brooks, C. Control of brown-rot of prunes and cherries in the Pacific Northwest. Farm.Bul.1410, 12 p. 1924.

Valleau, W.D. Varietal resistance of plums to brown-rot. Jour. Agr.Res.5:365-396. 1915. (Minn.-7)

See also FRUIT AND FRUIT DISEASES. Brown rot.

Leaf spot. Coccomyces.

Keitt, G.W. Inoculation experiments with species of Coccomyces from stone fruits. Jour.Agr.Res.13:539-569. 1918. (Wis.-12)

Plum pockets.

Galloway, B.T. Plum pockets. Taphrina pruni, (Fckl.) Tul. Comr. Agr.Rep. 1888:366-369. 1889.

POA. DISEASES.

Rust.

Stakman, E.C., and Levine, M.N. Puccinia graminis poae Erikss. and Henn. in the United States. Jour.Agr.Res.28:541-548. 1924. (G-388)

Podophyllum peltatum, Diseases. See MANDRAKE.

Podosphaera. See APPLE. DISEASES. Powdery mildew. Podosphaera.

Podosphaera oxycantha. See APPLE. DISEASES. Powdery mildew. Podosphaera - CHERRY. DISEASES. Powdery mildew. Podosphaera oxycantha.

Polyporus. See CONIFERS. DISEASES (Schrenk) - JUNIPER. DISEASES. Polyporus - PINE. DISEASES.

Polyporus adustus. See RED GUM. DISEASES.

Polyporus amarus. See INCENSE CEDAR. DISEASES. Polyporus amarus.

Polyporus dryadeus. See OAK. DISEASES. Polyporus dryadeus.
Polyporus dryophilus. See OAK. DISEASES. Polyporus dryophilus - POPLAR. DISEASES. Polyporus dryophilus.
Polyporus fraxinophilus. See ASH. DISEASES. White rot.
POPLAR. DISEASES.
Canker.
Long, W.H. An undescribed canker of poplars and willows caused by Cytospora chrysosperma. Jour.Agr.Res.13:331-344. 1918. (G-143)
Polyporus dryophilus.
Hedgcock, G.G., and Long, W.H. Heart-rot of oaks and poplars caused by Polyporus dryophilus. Jour.Agr.Res.3:65-78. 1914. (G-34)
Rust.
Waite, M.B. The leaf rust of cottonwoods. Melampsora populina Lév. Comr.Agr.Rep.1888:390-392. 1889.
POTATO. DEGENERATION.
Gilbert, A.H. Correlation of foliage degeneration diseases of the Irish potato with variations of the tuber and sprout. Jour. Agr.Res.25:255-266. 1923. (Vt.-2)
Schultz, E.S., and Folsom, D. Transmission, variation, and control of certain degeneration diseases of Irish potatoes. Jour. Agr.Res.25:43-118. 1923. (G-318)
---------- Why potatoes run out. Farm.Bul.1436, 20 p. 1924.
See also the following under POTATO. DISEASES.- Curly dwarf - Leaf curl - Mosaic - Spindling sprout.
POTATO. DISEASE RESISTANCE AND RESISTANT VARIETIES.
Jones, L.R. Disease resistance of potatoes. Bur.Plant Indus. Bul.87, 39 p. 1905.
POTATO. DISEASES.
Browne, D.J. Potatoes. Proposed remedy against disease. (Abstract of Protz, W. Erforschung der wahren ursuche des krankhaften zustandes der kartoffelpflanze.) Comr.Patents Rep.Agr.1856: 248-250. 1857.
Carpenter, C.W. Potato diseases in Hawaii and their control. Hawaii Agr.Exp.Sta.Bul.45, 42 p. 1920.
Chittenden, F.H., and Orton, W.A. Increasing the potato crop by spraying. Farm.Bul.1349, 22 p. 1923. (Revision of Farm.Bul. 863, 1917.)
Cook, F.C. The influence of copper sprays on the yield and composition of Irish potato tubers. Dept.Bul.1146, 27 p. 1923.
Edson, H.A., and Shapovalov, M. Temperature relations of certain potato-rot and wilt-producing fungi. Jour.Agr.Res.18:511-524. 1920. (G-133)
Galloway, B.T. Potato diseases and their treatment. Farm.Bul. 91, 12 p. 1899.
---------- Some destructive potato diseases: what they are and how to prevent them. Farm.Bul.15, 8 p. 1894.
Orton, W.A. Potato diseases in San Joaquin County, California. Bur.Plant Indus.Circ.23, 14 p. 1909.

POTATO. DISEASES. (Cont.)

Orton, W.A. Potato wilt, leaf-roll, and related diseases. Dept. Bul.64, 48 p. 1914.

Pratt, O.A. Experiments with clean seed potatoes on new land in southern Idaho. (Preliminary paper) Jour.Agr.Res.6:573-575. 1916. (G-86)

Shapovalov, M., and Link, G.K.K. Control of potato-tuber diseases. Farm.Bul.1367, 38 p. 1924.

Stewart, F.C., and Eustace, H.J. Syllabus of illustrated lecture on potato diseases and their treatment. Off.Exp.Sta.,Farm.Inst. Lecture 2, 30 p. 1904. Rev.1907.

Control. See POTATO. DISEASES - POTATO. LEGISLATION - POTATO. SEED TREATMENT - SPRAYING.

Black heart.

Potato black-heart. Bur.Plant Indus.Cotton Truck & For.Crop. Dis.Inves.Circ.2, 3 p. 1918.

Black leg.

Artschwager, E.F. Pathological anatomy of potato blackleg. Jour. Agr.Res.20:325-330. 1920. (G-210)

Morse, W.J. Studies upon the blackleg disease of the potato, with special reference to the relationship of the causal organisms. Jour.Agr.Res.8:79-126. 1917. (Me.-9)

Black leg. Bacillus phytophorus.

Rosenbaum, J., and Ramsey, G.B. Influence of temperature and precipitation on the blackleg of potato. Jour.Agr.Res.13:507-513. 1918. (G-145)

Shapovalov, M., and Edson, H.A. Blackleg potato tuber-rot under irrigation. Jour.Agr.Res.22:81-92. 1921. (G-246)

Blight. See POTATO. DISEASES. Fusarium - POTATO. DISEASES. Late blight.

Brown rot. Bacterium solanacearum.

Meier, F.C., and Link, G.K.K. Potato brown-rot. Dept.Circ.281, 6 p. 1923.

Smith, E.F. A bacterial disease of the tomato, eggplant, and Irish potato. (Bacillus solanacerum n.sp.) Div.Veg.Physiol.& Path. Bul.12, 28 p. 1896.

Curly dwarf.

Bunzel, H.H. Oxidases in healthy and in curly-dwarf potatoes. Jour.Agr.Res.2:373-404. 1914. (G-30)

See also POTATO. DEGENERATION.

Degeneration. See POTATO. DEGENERATION.

Dry rot.

Melhus, I.E., and others. Spongospora subterranea and Phoma tuberosa on the Irish potato. Jour.Agr.Res.7:213-254. 1916. (G-96)

See also POTATO. DISEASES. Fusarium oxysporum.

Fusarium.

Carpenter, C.W. Some potato tuber-rots caused by species of Fusarium. Jour.Agr.Res.5:183-210. 1915. (G-62)

Goss, R.W. Temperature and humidity studies of some Fusaria rots of the Irish potato. Jour.Agr.Res.22:65-80. 1921. (Nebr.-3)

POTATO. DISEASES. (Cont.)

Fusarium. (Cont.)

Hawkins, L.A. Effect of certain species of Fusarium on the composition of the potato tuber. Jour.Agr.Res.6:183-196. 1916. (G-78)

Link, G.K.K., and Meier, F.C. Fusarium tuber rot of potatoes. Dept.Circ.214, 8 p. 1922.

McKay, M.B. Transmission of some wilt diseases in seed potatoes. Jour.Agr.Res.21:821-848. 1921. (Oreg.-6)

MacMillan, H.G. Fusarium-blight of potatoes under irrigation. Jour.Agr.Res.16:279-304. 1919. (G-174)

Morris, H.E., and Nutting, G.B. Identification of certain species of Fusarium isolated from potato tubers in Montana. Jour.Agr. Res.24:339-364. 1923. (Mont.-10)

Orton, W.A. Potato wilt, leaf-roll, and related diseases. Dept. Bul.64, 48 p. 1914.

Pratt, O.A. Soil fungi in relation to diseases of the Irish potato in southern Idaho. Jour.Agr.Res.13:73-99. 1918. (G-139)

Sedgwick, T.F. Preliminary experiments with the "quick blight" of the potato. Hawaii Agr.Exp.Sta.Press Bul.3, 1 p. [1902]

Fusarium oxysporum.

Smith, E.F., and Swingle, D.B. The dry rot of potatoes due to Fusarium oxysporum. Bur.Plant Indus.Bul.55, 64 p. 1904.

Fusarium radicicola.

Pratt, O.A. A western fieldrot of the Irish potato tuber caused by Fusarium radicicola. Jour.Agr.Res.6:297-310. 1916. (G-80)

Fusarium trachithecioides.

Orton, W.A., and Link, G.K.K. Powdery dry rot of potato. Bur. Plant Indus., Cotton, Truck & For.Crop.Dis.Inves.Circ.1, 4 p. 1918.

Fusarium trichothecioides.

Orton, W.A. Powdery dry-rot of the potato. Bur.Plant Indus.Circ. 110:13-15. 1913.

Pratt, O.A. Control of the powdery dryrot of western potatoes caused by Fusarium trichothecioides. Jour.Agr.Res.6;817-832. 1916. (G-92)

Late blight. Phytophthora infestans.

Fraas, K.N. Summary of opinions on the potato disease. Translated from the Centralblatt des Landwirthschaftlichen vereins in Bayern of April, 1848, by E.G. Smith. Comr.Patents Rep.1848: 563-569. 1849.

Jones, L.R. A comparative test of fungicides in checking potato blight and rot. Off.Exp.Sta.Bul.16:89-91. 1893.

---------- and others. Investigations of the potato fungus Phytophthora infestans. Bur.Plant Indus.Bul.245, 100 p. 1912.

Link, G.K.K., and Meier, F.C. Late-blight tuber rot of the potato. Dept.Circ.220, 5 p. 1922. Rev. 1924.

Martius, C.F.P. von. On the diseases of potatoes. Extracted principally from Die Kartoffel-Epidemic - Dr. von Martius, Munich, 1842. (Translation reprinted from Gardeners' Chronicle 1845:624-656.) Comr.Patents Rep.1845:673-676. 1846.

POTATO. DISEASES. (Cont.)

Late blight. Phytophthora infestans. (Cont.)

Martius, C.F.P. von. The potato epidemic of last year, or the rot and scab of the potato, described by Dr. C.F.Ph. von Martius, Munich, 1843. Extracted and translated by H. Scholl. Comr. Patents Rep. 1845:668-673. 1846.

---------- Report of Dr. von Martius, commissioner appointed by the High ministerial rescript of Aug.25 for the accurate investigation of the potato disease in the Palatinate. Translation from Centralblatt des landwirthschaftlichen vereins in Bayern by E.G.Smith. Comr.Patents Rep. 1845:676-688. 1856.

Melhus, I.E. Hibernation of Phytophthora infestans in the Irish potato. Jour.Agr.Res.5:71-102. 1915. (G-58)

---------- Perennial mycelium in species of Peronosporaceae related to Phytophthora infestans. Jour.Agr.Res.5:59-70. 1915. (G-57)

[The potato disease.] Comr.Patents Rep.1844:70-89;202-268. 1845. (Largely reports from growers, and extracts from newspapers and farm journals)

Potato rot in Europe. Comr.Patents Rep. 1845:548-688. 1846.

Potato rot in the United States. Comr.Patents Rep.1845:484-547. 1846. (Short articles and extracts from farm and horticultural papers)

Potatoes. Potato rot. Comr.Patents Rep.1845:191-248. 1846.

Schaeffer, G.C. Investigation of the potato disease. Comr. Patents Rep.Agr.1853:175-177. 1854.

Scribner, F.L. Downy mildew of the potato. Phytophthora infestans, Dby. Comr.Agr.Rep.1888:337-339. 1889.

---------- Treatment of the potato and tomato for the blight and rot. Bot.Div.(Sect.Veg.Path.)Circ.4, 3 p. 1887.

Taylor, T. Potato blight and rot. Month.Rep.1872:507-511 (Ann. Rep.1872:198-203. 1874); Month.Rep.1873:118-123, 250-253; 1874:273-275 (Ann.Rep.1873:186-196, 1874)

Leaf curl.

Artschwager, E.F. Histological studies on potato leaf-roll. Jour.Agr.Res.15:559-570. 1918. (G-167)

Gilbert, A.H. Correlation of foliage degeneration diseases of the Irish potato with variations of the tuber and sprout. Jour.Agr. Res.25:255-268. 1923. (Vt.-2)

Orton, W.A. Potato leaf-roll. Bur.Plant Indus.Circ.109:7-10. 1913.

---------- Potato wilt, leaf-roll, and related diseases. Dept. Bul.64, 48 p. 1914.

Schultz, E.S., and Folsom, D. Leafroll, net-necrosis, and spindling-sprout of the Irish potato. Jour.Agr.Res.21:47-80. 1921. (G-222)

Leak. Pythium debaryanum.

Hawkins, L.A. The disease of potatoes known as "leak". Jour.Agr. Res.6:627-640. 1916. (G-87)

---------- Experiments in the control of potato leak. Dept. Bul.577, 5 p. 1917.

---------- and Harvey, R.B. Physiological study of the parasitism of Pythium debaryanum Hesse on the potato tuber. Jour.Agr.Res. 18:275-298. 1919. (G-181)

POTATO. DISEASES. (Cont.)

Mosaic.

Gilbert, A.H. Correlation of foliage degeneration diseases of the Irish potato with variations of the tuber and sprout. Jour. Agr.Res.25:255-266. 1923. (Vt.-2)

Orton, W.A. Potato wilt, leaf-roll, and related diseases. Dept. Bul.64, 48 p. 1914.

Schultz, E.S., and others: Investigations on the mosaic disease of the Irish potato. (Preliminary paper) Jour.Agr.Res.17:247-274. 1919. (G-177)

---------- and Folsom, D. Transmission of the mosaic disease of Irish potatoes. Jour.Agr.Res.19:315-338. 1920. (G-197)

---------- and Folsom, D. Transmission, variation, and control of certain degeneration diseases of Irish potatoes. Jour.Agr. Res. 25: 43-118. 1923. (G-318)

Nematodes.

Headley, F.B. Experiment with eelworm-infested potatoes. West. Irrig.Agr.Circ.23:18-21. 1918.

See also NEMATODE DISEASES. Tylenchus penetrans.

Net necrosis.

Artschwager, E.F. Occurrence and significance of phloem necrosis in the Irish potato. Jour.Agr.Res.24:237-246. 1923. (G-296)

Schultz, E.S., and Folsom, D. Leafroll, net-necrosis, and spindling-sprout of the Irish potato. Jour.Agr.Res.21:47-80. 1921. (G-222)

Physiological. See POTATO. DEGENERATION - Also the following sub-heads under POTATO. DISEASES. - Black heart - Curly dwarf - Leaf curl - Mosaic - Net necrosis - Spindling sprout - Stem lesions - Vascular discolorations.

Powdery dry rot. See POTATO. DISEASES. Fusarium trachithecioides.

Powdery scab. Spongospora subteraanea.

Kunkel, L.O. A contribution to the life history of Spongospora subterranea. Jour.Agr.Res.4:265-278. 1915. (G-49)

Melhus, I.E. Powdery scab (Spongospora subterranea) of potatoes. Dept.Bul.82, 16 p. 1914.

---------- and others. Spongospora subterranea and Phoma tuberosa on the Irish potato. Jour.Agr.Res.7:213-254. 1916.(G-96)

Shapovalov. M. Relation of potato skinspot to powdery scab. Jour.Agr.Res.23:285-294. 1923. (G-273)

Powdery scab. Legislation.

Potato quarantine (Foreign). Fed.Hort.Bd.Not.Quar.11, 1 p.,Dec.22, 1913. Notice of lifting of quarantine, (Effective Jan.1,1916), 1 p., Dec.8, 1915.

Powdery scab of potato [Domestic]. Fed.Hort.Bd. Not.Quar.14 (Effective Aug.1,1914), 1 p.,Apr.25, 1914 (Issued May 15,1914); Not. Quar.18, 1 p., Nov.14, 1914. Reprinted in S.R.A. Apr.,Nov. 1914. Order lifting domestic potato quarantine, (Effective Sept. 1, 1915), S.R.A. Aug. 1915.

POTATO. DISEASES. (Cont.)

Rhizoctonia.

Ramsey, G.B. A form of potato disease produced by Rhizoctonia. Jour.Agr.Res.9:421-426. 1917. (Me.-10)

Richards, B.L. Further studies on the pathogenicity of Corticium vagum on the potato as affected by soil temperature. Jour.Agr. Res.23:761-770. 1923. (Utah-16)

---------- Pathogenicity of Corticium vagum on the potato as affected by soil temperature. Jour.Agr.Res.21:-459-482. 1921. (Utah-13)

Rosenbaum, J., and Shapovalov, M. A new strain of Rhizoctonia solani on the potato. Jour.Agr.Res.9:413-420. 1917. (G-114)

Scab.

Shapovalov, M. Effect of temperature on germination and growth of the common potato-scab organism. Jour.Agr.Res.4:129-134. 1915. (Me.-4)

Potato scab. (Exp.Sta.Work I). Farm.Bul.56:20-24. 1897.

See also POTATO. DISEASES. Powdery scab.

Sclerotium rolfsii.

Edson, H.A., and Shapovalov, M. Parasitism of Sclerotium rolfsii on Irish potatoes. Jour.Agr.Res.23:41-46. 1923. (G-261)

Silver scurf. Spondylocladium atrovirens.

Melhus, I.E. Silver scurf, a disease of the potato. Bur.Plant Indus.Circ.127:15-24. 1913.

Schultz, E.S. Silver-scurf of the Irish potato caused by Spondylocladium atrovirens. Jour.Agr.Res.6:339-350. 1916. (G-81)

Skin spot.

Shapovalov, M. Relation of potato skinspot to powdery scab. Jour.Agr.Res.23:285-294. 1923. (G-273)

Spindling sprout.

Schultz, E.S., and Folsom, D. Leafroll, net-necrosis, and spindling-sprout of the Irish potato. Jour.Agr.Res.21:47-80. 1921. (G-222)

Stem lesions.

Edson, H.A., and Shapovalov, M. Potato-stem lesions. Jour.Agr. Res.14:213-220. 1918. (G-149)

Storage and transportation rots. See under POTATO. DISEASES. Black heart - Dry rot - Leaf curl.

Vascular discolorations.

Edson, H.A. Vascular discoloration of Irish potato tubers. Jour. Agr.Res.20:277-294. 1920. (G-208)

Wart disease.

Artschwager, E.F. Anatomical studies on potato-wart. Jour.Agr. Res.23:963-968. 1923. (G-292)

Lyman, G.R., and others. Potato wart. Dept.Circ.111, 19 p. 1920.

Wart disease. Chrysophlyctis endobiotica.

Kunkel, L.O. Wart of potatoes: a disease new to the United States. Bur.Plant Indus. Cotton Truck & For.Crop Dis.Inves.Circ.6, 14 p. 1919.

RHUBARB. DISEASES.

Phytophthora parasitica var.rhei.

Godfrey,G.H. A Phytophthora footrot of rhubarb. Jour.Agr. Res.23:1-26. 1923. (G-259)

RICE. DISEASES.

Tisdale,W.H. Seedling blight and stack-burn of rice and the hot-water seed treatment. Dept.Bul.1116, 11 p. 1922.

Chlorosis.

Willis,L.G., and Carrero,J.O. Influence of some nitrogenous fertilizers on the development of chlorosis in rice. Jour. Agr.Res.24:621-640. 1923. (B-18)

Helminthosporium.

Tucker,C.M. A brown spot disease of rice (Helminthosporium sp.). Porto Rico Agr.Exp.Sta.Rep.1922:13-18. 1923.

Sclerotium.

Tisdale,W.H. Two Sclerotium diseases of rice. Jour.Agr.Res. 21:649-658. 1921. (G-243)

Straighthead.

Tisdale,W.H., and Jenkins,J.M. Straighthead of rice and its control. Farm.Bul.1212, 16 p. 1921.

Take-all. Legislation. See CEREALS. DISEASES. Take-all. Legislation.

RICE. LEGISLATION.

Seed or paddy rice quarantine, with regulations. (Effective Sept.1, 1923) Fed.Hort.Bd.Not.Quar.55, 3 p., Jul.17,1923. Reprinted S.R.A.Jul./Sept.1923.

RICE. SEED TREATMENT.

Tisdale,W.H. Seedling blight and stack-burn of rice and the hot-water seed treatment. Dept.Bul.1116, 11 p. 1922.

Ricinus communis. Diseases. See CASTOR OIL PLANT.

Roeslaria hypogaea. See GRAPE.DISEASES. Root rot.

Roestelia lacerata. See HAWTHORN.DISEASES Aecidium laceratum.

ROOT DISEASES.

Carpenter,C.W. Preliminary report on root rot in Hawaii. (Lahaina cane deterioration, pineapple wilt, taro rot, rice root rot, banana root rot). Hawaii Agr.Exp.Sta.Press Bul.54, 8 p. 1919.

ROOT KNOT.

Bessey,E.A., and Byars, L.P. The control of root-knot. Farm.Bul. 648, 19 p. 1915.

---------- Root-knot and its control. Bur.Plant Indus.Bul. 217, 89 p. 1911.

Byars,L.P., and Gilbert,W.W. Soil disinfection with hot water to control the root-knot nematode and parasitic soil fungi. Dept. Bul.818, 14 p. 1920.

Cobb,N.A. Estimating the nema population of soil, with special reference to the sugar-beet and root-gall nemas, Heterodera Schachtii Schmidt and Heterodera radicicola (Greef) Müller, and with a description of Tylencholaimus aequalis n.sp. Bur.Plant Indus.Agr.Tech.Circ. 1, 48 p. 1918.

ROOT KNOT.(Cont.)

Godfrey,G.H. The depth distribution of the root-knot nematode, Heterodera radicicola, in Florida soils. Jour.Agr.Res.29(1924): 93-98. 1925.

---------- Root-knot: its cause and control. Farm.Bul.1345, 26 p. 1923.

Neal, J.C. The root-knot disease of the peach, orange, and other plants in Florida, due to the work of Anguillula... Div.Ent.Bul. 20, 31 p. 1889.

Scofield,C.S. The nematode gallworm on potatoes and other crop plants in Nevada. Bur.Plant Indus.Circ.91, 15 p. 1912.

See also DASHEEN - NEMATODE DISEASES - COTTON. DISEASES. Root knot.

ROSE. DISEASES.

Patterson,F.W. Diseases of roses. Farm.Bul.750:32-35. 1916.

Scribner,F.L. Black-spot on rose leaves, Actinonema rosae. Rose rust, Phragmidium mucronatum, Winter. Phragmidium speciosum, Fries. Comr.Agr.Rep.1887:366-372. 1888.

Botryosphaeria ribis.

Stevens,N.E.,and Jenkins,A.E. Occurrence of the currant cane blight fungus on other hosts. Jour.Agr.Res.27:837-844. 1924. (G-376)

Canker.

Jenkins,A.E. Brown canker of roses, caused by Diaporthe umbrina. Jour.Agr.Res.15:593-600. 1918. (G-163)

Leaf spot.

Southworth,E.A. Leaf-spot of the rose. Cercospora rosaecola,Pass. Comr.Agr.Rep.1888:364-365. 1889.

RUBBER TREES. DISEASES.

South American leaf diseases. Dothidella ulei.

Rands,R.D. South American leaf disease of Para rubber. Dept.Bul. 1286, 18 p. 1924.

RUBUS. DISEASES.

Rust.

Kunkel,L.O. Further data on the orange-rusts of Rubus. Jour. Agr.Res.19:501-513. 1920. (G-202)

Rust.Gymnoconia.

Dodge,B.O. Effect of the orange-rusts of Rubus on the development and distribution of stomata. Jour.Agr.Res.25:495-500. 1923. (G-330)

---------- Systemic infections of Rubus with the orange-rusts. Jour.Agr.Res.25:209-242. 1923. (G-322)

Rust.Pucciniastrum americanum.

Dodge,B.O. Morphology and host relations of Pucciniastrum americanum. Jour.Agr.Res.24:885-894. 1923. (G-311)

See also BLACKBERRY. DISEASES. - RASPBERRY. DISEASES.

RUSTS.

Stakman,E.C., and others. Spores in the upper air. Jour.Agr.Res. 24.599-606. 1923. (G-304)

Rusts. Orange. See BLACKBERRY. DISEASES. Rust. - RUBUS. DISEASES. Rust.

RUTACEOUS PLANTS. DISEASES.

Canker.

Lee,H.A. Further data on the susceptibility of rutaceous plants to citrus-canker. Jour.Agr.Res.15:361-883. 1918. (G-170)

RYE. DISEASES.

Bacterial blight.

Reddy,C.S., and others. Bacterial blight of rye [Bacterium translucens seculis n.var.] Jour.Agr.Res.28:1039-1040. 1924. (G-414)

Physiological.

Davison,F.R., and others. Brittle straw and other abnormalities in rye. Jour.Agr.Res.28:169-172. 1924. (Minn.-50)

Rust.

Mains,E.B., and Jackson,H.S. Aecial stages of the leaf rusts of rye Puccinia dispersa Erikss and Henn., and of barley, P. anomala Rostr., in the United States. Jour.Agr.Res.28:1119-1126. 1924. (G-415)

---------and Leighty,C.E. Resistance in rye to leaf rust, Puccinia dispersa Erikss. Jour.Agr.Res.25:243-252. 1923. (G-323)

Take-all. Legislation. See CEREALS. DISEASES. Take-all. Legislation.

Salix. Diseases. See WILLOW.

Sarcoma See CANCER IN RELATION TO PLANT TUMORS.

Schizoparme stramineum. See STRAWBERRY. DISEASES. Schizoparme stramineum.

Sclerospora. See MAIZE. DISEASES. Sclerospora.

SCLEROSPORA GRAMINICOLA.

Weston,W.H. Nocturnal production of conidia by Sclerospora graminicola. Jour.Agr.Res.27:771-784. 1924. (G-353)

Sclerospora macrospora. See WHEAT. DISEASES Sclerospora macrospora.

Sclerospora philippinensis. See MAIZE. DISEASES. Sclerospora philippinensis.

Sclerospora spontanea. See MAIZE. DISEASES. Sclerospora spontanea.

Sclerotinia diseases. See LETTUCE. DISEASES. Sclerotina.(Jagger)

Sclerotinia carunculoides. See MULBERRY. DISEASES. Sclerotinia carunculoides.

Sclerotinia cinerea. See CHERRY. DISEASES. Brown rot.- FRUIT AND FRUIT TREES. DISEASES. Brown rot - PLUM. DISEASES. Brown rot.

Sclerotinia fructigena. See CHERRY. DISEASES. Brown rot - PEACH DISEASES. Brown rot.

Sclerotinia libertiana. See GINSENG. DISEASES. Sclerotinia rot - UDO. DISEASES. Root rot.

Sclerotinia minor. See LETTUCE. DISEASES. Sclerotinia.

Sclerotinia ricini. See CASTOR-OIL PLANT. DISEASES. Sclerotinia ricini.

Sclerotinia smilacina. See GINSENG. DISEASES. Sclerotinia rot.

SCLEROTIUM DISEASES.

Taubenhaus, J.J. Recent studies on Sclerotium rolfsii Sacc. Jour. Agr.Res.18:127-138. 1919. (Tex.-4)

See also RICE. DISEASES. Sclerotium.

Sclerotium rolfsii. See DASHEEN. DISEASES. Storage and transportation rots - PEANUT. DISEASES. WILT - POTATO. DISEASES. Sclerotium rolfsii - SCLEROTIUM DISEASES.

Scolecotrichum tritici. See ORCHARD GRASS. DISEASES.

SMALL FRUITS. DISEASES.

Storage and transportation rots.

Dodge, B.O. Origin of the central and ostiolar cavities in pycnidia of certain fungous parasites of fruits. Jour.Agr.Res. 23:745-760. 1923. (G-284)

SMALL FRUITS. KEEPING QUALITIES.

Hawkins,L.A., and Sando,C.E. Effect of temperature on the resistance to wounding of certain small fruits and cherries. Dept. Bul.830, 6 p. 1920.

SMOKE AND SMELTER FUME INJURY.

Haywood, J.K. Injury to vegetation and animal life by smelter wastes. Bur.Chem.Bul.113, 40 p. 1908. Rev.1910.

---------- Injury to vegetation by smelter fumes. Bur.Chem. Bul.89, 23 p. 1905.

SNAILS AS CARRIERS OF PLANT DISEASES.

Rands,R.D. Snails as predisposing agents of sugar cane "root disease" in Louisiana. Jour.Agr.Res.28:969-970. 1924. (G-369)

SOIL CONDITIONS. EFFECT ON PLANT DISEASES.

Bartholomew,L.K., and Jones,E.S. Relation of certain soil factors to the infection of oats by loose smut. Jour.Agr.Res.24:569-575. 1923. (G-301)

Briggs,L.J. The field treatment of tobacco root-rot. Bur.Plant Indus.Circ. 7, 8 p. 1908.

Brooks,C., and Fisher,D.F. Irrigation experiments on apple-spot diseases. Jour.Agr.Res.12:109-138. 1918. (G-133)

Dickson,J.G. Influence of soil temperature and moisture on the development of the seedling-blight of wheat and corn caused by Gibberella saubinetii. Jour.Agr.Res.23:837-870. 1923. (G-288)

Fulton,H.R. Decline of Pseudomonas citri in the soil. Jour.Agr. Res.19:207-223. 1920. (G-193)

Garner,W.W., and others. Sand drown, a chlorosis of tobacco due to magnesium deficiency, and the relation of sulphates and chlorids of potassium to the disease. Jour.Agr.Res.23:27-40, 1923. (G-260)

Hartley,C. Stem lesions caused by excessive heat. Jour.Agr.Res.14: 595-604. 1918. (G-156)

Hoffer,G.N., and Carr,R.H. Accumulation of aluminum and iron compounds in corn plants and its probable relation to rootrots. Jour. Agr.Res.23:801-824. 1923. (G-286)

Johnson,J., and Hartman,R.E. Influence of soil environment on the rootrot of tobacco. Jour.Agr.Res.17:41-86. 1919. (Wis.-15)

Jones,E.S. Influence of temperature, moisture, and oxygen on spore germination of Ustilago avenae. Jour.Agr.Res.24:577-591. 1923. (G-302)

McKinney,H.H. Influence of soil temperature and moisture on infection of wheat seedlings by Helminthosporium sativum. Jour.Agr.Res.26: 195-218. 1923. (G-333)

SOIL CONDITIONS. EFFECT ON PLANT DISEASES (Cont.)

Monteith, J. Relation of soil temperature and soil moisture to infection by Plasmodiophora brassicae. Jour.Agr.Res.28:549-562. 1924. (G-425)

Pratt,O.A. Experiments with clean seed potatoes on new land in southern Idaho. (Preliminary paper) Jour.Agr.Res.6:573-575. 1916. (G-26)

Richards,B.L. Further studies on the pathogenicity of Corticium vagum on the potato as affected by soil temperature. Jour.Agr. Res.23:761-770. 1923. (Utah-16)

---------- Pathogenicity of Corticium vagum on the potato as affected by soil temperature. Jour.Agr.Res.21:459-482. 1921. (Utah-13)

---------- Soil temperature as a factor affecting the pathogenicity of Corticium vagum on the pea and the bean. Jour.Agr. Res.25:431-450. 1923. (Utah-18)

Smith,E.F. Experiments with fertilizers for the prevention and cure of peach yellows,1889-92. Div.Veg.Path.Bul.4, 197 p. 1893.

Stakman,E.C., and Aamodt,O.S. The effect of fertilizers on the development of stem rust in wheat. Jour.Agr.Res.27:341-380. 1924. (G-354)

Tisdale,W.B. Influence of soil temperature and soil moisture upon the Fusarium disease in cabbage seedlings. Jour.Agr.Res.24:55-86. 1923. (Wis.-20)

Walker,J.C., and Jones,L.R. Relation of soil temperature and other factors to onion smut infection. Jour.Agr.Res.22:235-262. 1921. (G-250)

Webber,H.J. Fertilization of the soil as affecting the orange in health and disease. Yearbook 1894:193-202. 1895.

Weiss,F.A. The effect of rust infection upon the water requirement of wheat. Jour.Agr.Res.27:107-118. 1924. (G-351)

Willis,L.G., and Carrero,J.O. Influence of some nitrogenous fertilizers on the development of chlorosis in rice. Jour.Agr.Res.24: 621-640. 1923. (B-18)

Woods,A.F. The relation of nutrition to the health of plants. Yearbook 1901: 155-176. 1902.

See also CHLOROSIS - CITRUS. DISEASES. Canker. - HYDROGEN ION CONCENTRATION AND PLANT DISEASES. - SOILS. FUNGUS INFECTION.

SOIL DISINFECTION.

Atanasoff,D., and Johnson,A.G. Treatment of cereal seeds by dry heat. Jour.Agr.Res.18:379-390. 1920. (Wis.-17)

Byars,L.P., and Gilbert,W.W. Soil disinfection with hot water to control the root-knot nematode and parasitic soil fungi. Dept. Bul.818, 14 p. 1920.

Harter,L.L. Diseases of cabbage and related crops and their control. Farm.Bul.488, 32 p. 1912.

Hartley,C. Injury by disinfectants to seeds and roots in sandy soils. Dept.Bul.169, 35 p. 1915.

Krout,W.S. Control of lettuce drop by the use of formaldehyde. Jour.Agr.Res.23:645-654. 1923. (Mass.-7)

Loew, O. Soil disinfection in agriculture. Porto Rico Agr.Exp.Sta. Circ.11, 12 p. 1909.

SOIL INFECTION.

Loew, O. On the "sick" soils of Porto Rico. Porto Rico Agr. Exp.Sta.Circ.12, 24 p. 1910.

See also FLAX. DISEASES. Wilt.

SOILS. FUNGUS INFECTION.

Pratt, O.A. Soil fungi in relation to diseases of the Irish potato in southern Idaho. Jour.Agr.Res.13:73-99. 1918. (G-139)

Solanum carolinense (horse nettle). Diseases. See WILD PLANTS (Solanum carolineum).

Solanum melongena. Diseases. See EGG PLANT.

SORGHUM. DISEASES.

Vinall, H.N., and Getty, R.E. Growing and utilizing sorghums for forage. Diseases. Farm.Bul.1158:28-30. 1920.

Smut.

Freeman, E.M., and Umberger, H.J.C. The smuts of sorghum. Bur.Plant Indus. Circ.8, 9 p. 1908. Rev. 1910.

Smut. Sorosporium reilianum.

Potter, A.A. Head smut of sorghum and maize. Jour.Agr.Res.2: 339-372. 1914. (G-29)

See also CEREALS. DISEASES.

Sorghum vulgare. Diseases. See BROOM CORN.

Sorosporium reilianum. See MAIZE. DISEASES. Smut. Sorosporium reilianum - SORGHUM. DISEASES. Smut. Sorosporium reilianum.

SOYBEAN. DISEASES.

Bacterial blight.

Coerper, F.M. Bacterial blight of soybean. [Bacterium glycineum n.sp.] Jour.Agr.Res.18:179-194. 1919. (Wis.-16)

Bacterium phaseoli var. sojense.

Hedges, F. A study of bacterial pustule of soybean, and a comparison of Bact. phaseoli sojense Hedges with Bact. phaseoli Efs. Jour.Agr.Res.29(1924):229-251. 1925. (G-440)

Wolf, F.A. Bacterial pustule of soybean. Jour.Agr.Res.29(1924): 57-68. 1925. (N.C.-18)

Mosaic.

Gardner, M.W., and Kendrick, J.B. Soybean mosaic. Jour.Agr. Res.22:111-114. 1921. (Ind.-10)

Kendrick, J.B., and Gardner, M.W. Soybean mosaic: seed transmission and effect on yield. Jour.Agr.Res.27:91-98. 1924. (Ind.-13)

Wilt. Fusarium tracheiphilum.

Cromwell, R.O. Fusarium-blight, or wilt disease, of the soybean. Jour.Agr.Res.8:421-440. 1917. (N.C.-4)

Sphaceloma ampelinum (synonym of Gloeosporium ampelophagus) See GRAPE. DISEASES. Anthracnose.

Sphacelomia fawcettii. See CITRUS. DISEASES. Scab.

Sphacelotheca sorghi. See SORGHUM. DISEASES. Smut.

Sphaerella fragariae. See STRAWBERRY. DISEASES. Leaf Blight.

Sphaeronema fimbriatum. See SWEET POTATO. DISEASES. Black rot. Sphaeronema fimbriatum.

Sphaeropsis malorum (pycnidial stage of Physalospora malorum). See APPLE. DISEASES. Black rot.

STRAWBERRY. DISEASES. (Cont.)

Storage and transportation rots.

Stevens, N.E., and Wilcox, R.B. Further studies of the rots of strawberry fruits. Dept.Bul.686, 14 p. 1918.

---------- and Wilcox, R.B. Rhizopus rot of strawberries in transit. Dept.Bul.531, 22 p. 1917.

SUGAR BEET. DISEASES.

Edson, H.A. Seedling diseases of sugar beets and their relation to root-rot and crown-rot. Jour.Agr.Res.4:135-168. 1915. (G-46)

Townsend, C.O. The beet sugar industry in the United States in 1920. Diseases. Dept.Bul.995:45-48. 1921.

---------- Some diseases of the sugar beet. Dept.Rep.72: 90-101. 1902.

Bacterium aptatum.

Brown, N.A., and Jamieson, C.O. A bacterium causing a disease of sugar-beet and nasturtium leaves. [Bacterium aptatum n.sp.] Jour.Agr.Res.1:189-210. 1913. (G-5)

Crowngall.

Smith, E.F., and others. Crown-gall of plants: its cause and remedy. Bur.Plant Indus.Bul.213, 215 p. 1911.

Townsend, C.O. Field studies of the crown-gall of sugar beets. Dept.Bul.203, 8 p. 1915.

Curly top.

Bunzel, H.H. A biochemical study of the curly-top of sugar beets. Bur.Plant Indus.Bul.277, 28 p. 1913.

Carsner, E., and Stahl, C.F. Studies on curly-top disease of the sugar beet. Jour.Agr.Res.28:297-320. 1924. (G-384)

Shaw, H.B. The curly-top of beets. Bur.Plant Indus.Bul.181, 46 p. 1910.

Stahl, C.F., and Carsner, E. Obtaining beet leafhoppers non-virulent as to curly-top. (Preliminary paper) Jour.Agr.Res. 14:393-394. 1918. (K-70)

Townsend, C.O. Curly-top, a disease of the sugar beet. Bur. Plant Indus.Bul.122, 37 p. 1908.

Damping off.

Edson, H.A. Seedling diseases of sugar beets and their relation to root-rot and crown-rot. Jour.Agr.Res.4:135-168. 1915. (G-46)

Dry rot. Corticium vagum.

Richards, B.L. A dry rot canker of sugar beets. Jour.Agr.Res.22: 47-52. 1921. (Utah-14)

Leaf spot.

Pool, V.W., and McKay, M.B. Climatic conditions as related to Cercospora beticola. Jour.Agr.Res.6:21-60. 1916. (G-75)

---------- and McKay, M.B. The control of the sugar-beet leaf-spot. Bur.Plant Indus.Circ.121:29-30. 1913.

---------- and McKay, M.B. Relation of stomatal movement to infection by Cercospora beticola. Jour.Agr.Res.5:1011-1038. 1916. (G-74)

Townsend, C.O. Leaf-spot, a disease of the sugar beet. Farm. Bul.618, 18 p. 1914. Rev.1922.

SUGAR BEET. DISEASES. (Cont.)

Nematodes.

Cobb, N.A. Estimating the nema population of soil, with special reference to the sugar-beet and root-gall nemas, Heterodera Schachtii Schmidt and Heterodera radicicola (Greef) Müller, and with a description of Tylencholaimus aequalis n.sp. Bur.Plant Indus.Agr.Tech.Circ.1, 48 p. 1918.

Thorne, G. Length of the dormancy period of the sugar-beet nematode in Utah. Dept.Circ.262, 5 p. 1923.

Nematodes. Heterodera schachtii.

Shaw, H.B. Control of the sugar-beet nematode. Farm.Bul.772, 19 p. 1916.

Thorne, G., and Giddings, L.A. The sugar-beet nematode in the western states. Farm.Bul.1248, 16 p. 1922.

Phoma betae.

Edson, H.A. Histological relations of sugar-beet seedlings and Phoma betae. Jour.Agr.Res.5:55-58. 1915. (G-56)

Pool, V.W., and McKay, M.B. Phoma betae on the leaves of the sugar beet. Jour.Agr.Res.4:169-178. 1915. (G-47)

Rheosporangium aphanidermatus.

Edson, H.A. Rheosporangium aphanidermatus, a new genus and species of fungus parasitic on sugar beets and radishes. Jour.Agr.Res. 4:279-292. 1915. (G-50)

Rust.

Scribner, F.L. The rust of beets. Uromyces betae, Pers. Comr. Agr.Rep.1887:350-353. 1888.

SUGAR CANE. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Edgerton, C.W., and Taggart, W.G. Tolerance and resistance to the sugar cane mosaic. Jour.Agr.Res.29(1924):501-506. 1925. (La.-4)

SUGAR CANE. DISEASES.

Field, E.C. Fungous diseases liable to be disseminated in shipments of sugar cane. Bur.Plant Indus.Circ.126:3-13. 1913.

Mosaic. See SUGAR CANE. DISEASES. Mottling.

Mottling.

Brandes, E.W. Artificial and insect transmission of sugar-cane mosaic. Jour.Agr.Res.19:131-138. 1920. (G-190)

---------- and Klaphaak, P.J. Cultivated and wild hosts of sugar-cane or grass mosaic. Jour.Agr.Res.24:247-262. 1923. (G-297)

---------- Mechanics of inoculation with sugar-cane mosaic by insect vectors. Jour.Agr.Res.23:279-283. 1923. (G-272)

---------- The mosaic disease of sugar cane and other grasses. Dept.Bul.829, 26 p. 1919.

Edgerton, C.W., and Taggart, W.G. Tolerance and resistance to the sugar cane mosaic. Jour.Agr.Res.29(1924):501-506. 1925.

Nematodes.

Cobb, N.A. Tylenchus similis, the cause of a root disease of sugar cane and banana. Jour.Agr.Res.4:561-568. 1915. (G-55)

Pineapple disease. Thielaviopsis ethaceticus.

Smith, J.G. Two plant diseases in Hawaii. Hawaii Agr.Exp.Sta. Press Bul.9, 6 p. 1904.

SUGAR CANE. DISEASES (Cont.)

Root disease.

Rands, R.D. Snails as predisposing agents of sugar cane "root disease" in Louisiana. Jour.Agr.Res.28:969-970. 1924. (G-369)

SUGAR CANE. LEGISLATION.

Sugar cane quarantine (foreign). Fed.Hort.Bd. Not.Quar.15, 1 p. [Mimeographed] Jun.6,1914. Reprinted in S.R.A. Jun.1914.

Sugar cane quarantine (domestic). Fed.Hort.Bd.Not.Quar.16, 1 p. [Mimeographed] Jun.6,1914. Reprinted in S.R.A. Jun.1914.

Sulphur. See FUNGICIDES. Sulphur.

SUNFLOWER. DISEASES.

Vinall, H.N. The sunflower as a silage crop. Diseases. Dept.Bul. 1045:30-31. 1922.

SWEET POTATO. DISEASES.

Chung, H.L. The sweet potato in Hawaii. Fungus diseases and means of controlling them. Hawaii Agr.Exp.Sta.Bul. 50:13-15. 1923.

Harter, L.L. Sweet-potato diseases. Farm.Bul.1059, 24 p. 1919. (Revision of Farm.Bul.714,1916)

Weimer, J.L., and Harter, L.L. Wound-cork formation in the sweet potato. Jour.Agr.Res.21:637-647. 1921. (G-242)

Black rot. Sphaeronema fimbriatum.

Galloway, B.T. Sweet-potato black rot, Ceratocystis fimbriata, Ell. & Hals. Sec.Agr.Rep.1891:376-378. 1892.

Harter, L.L. Control of the black-rot and stem-rot of the sweet potato. Bur.Plant Indus.Circ.114:15-18. 1913.

Dry rot.

Harter, L.L., and Field, E.C. A dry rot of sweet potatoes caused by Diaporthe batatatis. Bur.Plant Indus.Bul.281, 38 p. 1913.

Fusarium.

Wollenweber, H.W. Identification of species of Fusarium occurring on the sweet potato, Ipomoea batatas. Jour.Agr.Res.2:251-286. 1914. (G-20)

See also SWEET POTATO. DISEASES. Vine wilt - SWEET POTATO. DISEASES. Storage and transportation rots.

Physiological.

Artschwager, E.F. On the anatomy of the sweet potato root, with notes on internal breakdown. Jour.Agr.Res.27:157-166. 1924. (G-357)

Pit. See SWEET POTATO. DISEASES. Pox. Cytospora batata.

Plenodomus destruens.

Harter, L.L. The foot-rot of the sweet potato. Jour.Agr.Res.1: 251-274. 1913. (G-7)

Pox. Cytospora batata.

Taubenhaus, J.J. Pox, or pit (soil rot), of the sweet potato. Jour.Agr.Res.13:437-450. 1918. (Tex.-1)

Rhizopus.

Edson, H.A. Acid production by Rhizopus tritici in decaying sweet potatoes. Jour.Agr.Res.25:9-12. 1923. (G-317)

Harter, L.L., and Weimer, J.L. Influence of the substrate and its hydrogen-ion concentration on pectinase production. Jour. Agr.Res.24:861-878. 1923. (G-310)

---------- and Weimer, J.L. Susceptibility of the different varieties of sweet potatoes to decay by Rhizopus nigricans and Rhizopus tritici. Jour. Agr.Res.22:511-515. 1922. (G-258)

SWEET POTATO. DISEASES. (Cont.)
Rhizopus. (Cont.)
Lauritzen, J.I., and Harter, L.L. Species of Rhizopus responsible for the decay of sweet potatoes in the storage house and at different temperatures in infection chambers. Jour.Agr.Res.24: 441-456. 1923. (G-298)
Weimer, J.L., and Harter, L.L. Respiration and carbohydrate changes produced in sweet potatoes by Rhizopus tritici. Jour. Agr.Res.21:627-635. 1921. (G-241)
Rootrot.
Harter, L.L. Pythium rootlet rot of sweet potatoes. Jour.Agr. Res.29(1924):53-55. 1925. (G-424)
Soil rot. See SWEET POTATO. DISEASES. Pox. Cytospora batata.
Soilstain. Monilochaetes infuscans.
Harter, L.L. Sweet-potato scurf. Jour.Agr.Res.5:787-792. 1916. (G-73)
Taubenhaus, J.J. Soilstain, or scurf, of the sweet potato. Jour.Agr.Res.5:995-1002. 1916. (Del.-1)
Storage and transportation rots.
Harter, L.L., and Weimer, J.L. Respiration of sweet potato storage-rot fungi when grown on a nutrient solution. Jour.Agr.Res. 21:211-226. 1921. (G-230)
Harter, L.L., and others. Sweet-potato storage-rots. Jour.Agr. Res.15:337-368. 1918. (G-161)
Weimer, J.L., and Harter, L.L. Glucose as a source of carbon for certain sweet potato storage-rot fungi. Jour.Agr.Res.21: 189-210. 1921. (G-229)
Vine wilt. Fusarium batatis.
Harter, L.L. Control of the black-rot and stem-rot of the sweet potato. Bur.Plant Indus.Circ.114:15-18. 1913.
SWEET POTATO. SEED TREATMENT.
Weimer, J.L. Reduction in the strength of the mercuric-chlorid solution used for disinfecting sweet potatoes. Jour.Agr.Res. 21:575-587. 1921. (G-236)
SYCAMORE. DISEASES.
Southworth, E.A. A disease of the sycamore, Gloeosporium nervisequum, Sacc. Comr.Agr.Rep.1888:387-389. 1889.
Synchytrium endobioticum. See POTATO. DISEASES. Wart disease. Chrysophlyctis endobiotica.
Syringa vulgaris. Diseases. See LILAC. DISEASES.
Taraxacum. Diseases. See DANDELION.
TARO. DISEASES.
Root rot.
Sedgwick, T.F. The root rot of taro. Hawaii Agr.Exp.Sta.Bul. 2, 21 p. 1902. Summary in Hawaiian language, Press Bul.4,[1903]
Storage and transportation rots.
Harter, L.L. Storage-rots of economic aroids. Jour.Agr.Res.6: 549-572. 1916. (G-85)

TOBACCO. DISEASES. (Cont.)

Chlorosis.

Garner, W.W., and others. Sand drown, a chlorosis of tobacco due to magnesium deficiency, and the relation of sulphates and chlorids of potassium to the disease. Jour.Agr.Res.25:27-40. 1923. (G-260)

Fusarium.

Johnson, J. Fusarium-wilt of tobacco. Jour.Agr.Res.20:515-536. 1921. (G-214)

Leafspot. See TOBACCO. DISEASES. Bacterium melleum.

Mosaic.

Allard, H.A. Distribution of the virus of the mosaic disease in capsules, filaments, anthers and pistils of affected tobacco plants. Jour.Agr.Res.5:251-256. 1915. (G-62)

---------- Effect of dilution upon the infectivity of the virus of the mosaic disease of tobacco. Jour.Agr.Res.3:293-299. 1915. (G-38)

---------- Effects of various salts, acids, germicides, etc., upon the infectivity of the virus causing the mosaic disease of tobacco. Jour.Agr.Res.13:619-657. 1918. (G-146)

---------- Further studies of the mosaic disease of tobacco. Jour.Agr.Res.10:615-632. 1917. (G-130)

---------- The mosaic disease of tobacco. Dept.Bul.40, 33 p. 1914.

---------- Some properties of the virus of the mosaic disease of tobacco. Jour.Agr.Res.6:649-674. 1916. (G-88)

---------- A specific mosaic disease in Nicotiana viscosum distinct from the mosaic disease of tobacco. Jour.Agr.Res. 7:481-486. 1916. (G-10)

Woods, A.F. Observations on the mosaic disease of tobacco. Bur.Plant Indus.Bul.18, 24 p. 1902.

Root rot. Thielavia basicola.

Briggs, L.J. The field treatment of tobacco root-rot. Bur. Plant Indus.Circ.7, 8 p. 1908.

Gilbert, W.W. The root-rot of tobacco caused by Thielavia basicola. Bur.Plant Indus.Bul.158, 55 p. 1909.

Johnson, J., and Hartman, R.E. Influence of soil environment on the rootrot of tobacco. Jour.Agr.Res.17:41-86. 1919. (Wis.-15)

---------- and Milton, R.H. Strains of White Burley tobacco resistant to root-rot. Dept.Bul.765, 11 p. 1919.

Wildfire.

Wolf, F.A., and Foster, A.C. Tobacco wildfire. [Bacterium tabacum emend.] Jour.Agr.Res.12:449-458. 1918. (W.C.-9)

Wilt. Bacterium solanacearum.

Garner, W.W., and others. The control of tobacco wilt in the flue-cured district. Dept.Bul.562, 20 p. 1917.

Smith, E.F. The Granville tobacco wilt. Bur.Plant Indus.Bul. 141:17-24. 1909.

Stevens, F.L. The history of the tobacco wilt in Granville County, North Carolina. Off.Exp.Sta.Bul.142:166-168. 1904.

TOBACCO. SEED-BED DISINFECTION.

Beinhart, E.G. Steam sterilization of seed beds for tobacco and other crops. Farm.Bul.996, 15 p. 1918.

TOMATO. DISEASES.

Galloway, B.T. Notes on black-rot of the tomato [Macrosporium]. A disease of the tomato [Cladosporium fulvum]. Ccmr.Agr.Rep. 1888: 339-349. 1889.

Halsted, B.D. Fungus enemies of the tomato. Farm.Bul.76:27-29. 1898.

Howell, A.M. [Report on the treatment of the fungous diseases of the grape and tomato.] Bot.Div.(Sect.Veg.Path.)Bul.11:49-65. 1890.

Orton, W.A. Tomato diseases. States Rel.Serv.Doc.95 (A-100):9-18. 1919. (Also Dept.Circ.40:9-18. 1919)

Scribner, F.L. Treatment of the potato and tomato for the blight and rot. Bot.Div.(Sect.Veg.Path.)Circ.4, 3 p. 1887.

Thompson, H.C. Tomato growing in the South. Diseases. Farm. Bul.642: 9-10. 1915.

Bacterial canker.

Gardner, M.W., and Kendrick, J.B. Bacterial spot of tomato. [Bacterium exitiosum, n.sp.] Jour.Agr.Res.21:123-156. 1921. (Ind.-9)

Collar rot. Verticillium lycopersici.

Pritchard, F.J., and Porte, W.S. Collar-rot of tomato. Jour.Agr. Res.21:179-184. 1921. (G-227)

Crown gall.

Riker, A.J. Some morphological responses of the host tissue to the crowngall organism. Jour.Agr.Res.26(1923):425-436. 1924. (Wis.-25)

Leaf spot. Septoria lycopersici.

Pritchard, F.J., and Porte, W.S. The control of tomato leaf-spot. Dept.Bul.1288, 18 p. 1924.

---------- and Clark, W.B. The control of tomato leaf-spot. Prevent the disease by spraying. Cotton, Truck and For.Crop Dis.Inves.Circ.4, 4 p. 1918.

---------- and Porte, W.S. Relation of horse nettle (Solanum carolinense) to leafspot of tomato (Septoria lycopersici). Jour. Agr.Res.21:501-505. 1921. (G-235)

Phoma destructiva.

Jamieson, C.O. Phoma destructiva, the cause of a fruit rot of the tomato. Jour.Agr.Res.4:1-20. 1915. (G-42)

Link, G.K.K., and Meier, F.C. Phoma rot of tomatoes. Dept.Circ. 219, 5 p. 1922.

Southern blight. Bacterium solanacearum.

Smith, E.F. A bacterial disease of the tomato, eggplant, and Irish potato. (Bacillus solanacearum n.sp.) Div.Veg.Physiol. and Path.Bul.12, 28 p. 1896.

Watery rot.

Pritchard, F.J., and Porte, W.S. Watery-rot of tomato fruits. A physiological form of Cospora lactis; effect on the host; penetration of the cell-walls by enzymic action. Jour.Agr.Res.24: 895-906. 1923. (G-312)

TOMATO. DISEASES. (Cont.)
Wilt. Fusarium lycopersici.
Pritchard, F.J. Development of wilt-resistant tomatoes. Dept. Bul.1015, 18 p. 1922.
TOMATO. WEATHER INJURIES.
Harvey, R.B., and Wright, R.C. Frost injury to tomatoes. Dept. Bul.1099, 10 p. 1922.
Trametes pini. See CONIFERS. DISEASES.(Schrenk)
TREE SURGERY.
Collins, J.F. Practical tree surgery. Yearbook 1913:163-190. 1914.
---------- Tree surgery. Farm.Bul.1178, 32 p. 1920. Rev. 1921 and 1922.
TREES. DISEASES.
Diseases of cotton, sugar cane, forest trees, ornamentals, and miscellaneous plants in the United States 1919. Plant Dis.Bul. Suppl.11. 1920. [Mimeographed]
Diseases of fiber crops, forest trees, ornamental and miscellaneous plants, 1918. Plant Dis.Bul.Suppl.5. 1919. [Mimeographed]
Diseases of forest and shade trees, ornamental and miscellaneous plants in the United States, 1920-22. Plant Dis.Bul.Suppl.17, 23,29. 1921-1923. [Mimeographed]
Hough, F.B. Diseases and other injuries to forest trees. [Div.Forestry] Rep. Forestry [1](1877):174-190. 1878.
Meinecke, E.P. Forest tree diseases common in California and Nevada. A manual for field use. Forest Serv.[Unnumbered Publ.], 67 p. 1914.
Metcalf, H. Diseases of ornamental trees. Yearbook 1907: 483-494. 1908.
Schrenk, H. von, and Spaulding P. Diseases of deciduous forest trees. Bur.Plant Indus.Bul.149, 85 p. 1909.
---------- Fungous diseases of forest trees. Yearbook 1900:199-210. 1901.
See also FOREST PATHOLOGY.
Heart rot.
Long, W.H. Three undescribed heart-rots of hardwood trees, especially of oak. Jour.Agr.Res.1:109-128. 1913. (G-2)
TROPICAL PLANTS. DISEASES.
Carpenter, C.W. Preliminary report on root rot in Hawaii. (Lahaina cane deterioration, pineapple wilt, taro rot, rice root rot, banana root rot). Hawaii Agr.Exp.Sta.Press Bul.54, 8 p. 1919.
See also BANANA - CACAO - CASSAVA - CASTOR OIL PLANT - COCO PALM - COFFEE - COTTON - FIG - LIME - OLIVE - PINEAPPLE - RUBBER TREES - SUGAR CANE - TARO.
TRUCK CROPS. DISEASES.
Beattie, W.R. Frames as a factor in truck growing. Prevention and control of diseases. Farm.Bul.460:25-27. 1911.
Close, C.P. Home gardens. Insects and diseases of vegetables and how to combat them. States Rel.Serv.Doc.52, Ext.N. (NR-4), 10 p. 1917.

TRUCK CROPS. DISEASES. (Cont.)

Diseases of field and vegetable crops in the United States, 1918-1923. Plant Dis.Bul.Suppl.2,3,10,16,22,26,34. 1919-1924. [Mimeographed]

Gilbert, W.W., and Popence, C.H. Diseases and insects of garden vegetables. Farm.Bul.1371, 46 p. 1924.

-------- ---- and Popenoe, C.H. Diseases and insects of the home garden. Dept.Circ.35, 31 p. 1919.

Orton, W.A., and Chittenden, F.H. Control of diseases and insect enemies of the home vegetable garden. Farm.Bul.856, 72 p. 1917.

Tsuga. Diseases. See HEMLOCK.

TULIP. DISEASES.

Griffiths, D. The production of tulip bulbs. Enemies of tulips. Dept.Bul.1082:36-38. 1922.

See also BULBS. DISEASES.

TURNIP. DISEASES.

Black rot. Pseudomonas campestris.

Smith, E.F. The effect of black rot on turnips: a series of photomicrographs, accompanied by an explanatory test. Bur.Plant Indus. Bul.29, 20 p. 14 pl. 1903.

Leafspot. Colletotrichum brassicae.

Higgins, B.B. A Colletotrichum leafspot of turnips. Jour.Agr. Res.10:157-162. 1917. (Ga-2)

Mosaic.

Gardner, M.W., and Kendrick, J.B. Turnip mosaic. Jour.Agr.Res. 22:123-124. 1921. (Ind.-11)

Schultz, E.S. A transmissible mosaic disease of Chinese cabbage, mustard, and turnip. Jour.Agr.Res.22:173-178. 1921. (G-248)

Tylencholaimus aequalis. See NEMATODE DISEASES (Cobb)

Tylenchulus semipenetrans. See CITRUS. DISEASES. Nematodes.

Tylenchus. See NEMATODE DISEASES.

Tylenchus dipsaci. See COMPOSITE FAMILY. DISEASES. Nematodes. - DANDELION. DISEASES. Nematodes - NEMATODE DISEASES. Tylenchus dipsaci - WILD PLANTS. DISEASES. Nematodes.

Tylenchus penetrans. See NEMATODE DISEASES. Tylenchus penetrans.

Tylenchus similis. See BANANA. DISEASES. Nematodes - SUGAR CANE. DISEASES. Nematodes.

Tylenchus tritici. See CEREALS. DISEASES. Nematodes. - WHEAT. DISEASES. Nematodes.

UDO. DISEASES.

Weimer, J.L. Two diseases of udo (Aralia cordata Thunb.). [Root rot, Sclerotinia libertiana; Wilt, Verticillium alboatrum.] Jour. Agr.Res26:271-278. 1923. (G-335)

URED INALES.

Patterson, F.W., and others. A list of fungi (Ustilaginales and Uredinales) prepared for exchange. Dept.Circ.195, 50 p. 1922.

WATERMELON. DISEASES. (Cont.)

Stem end rot. Diplodia sp.

Meier, F.C. Watermelon stem-end rot. (Preliminary paper) Jour. Agr.Res.6:149-152. 1916. (G-76)

Vine wilt.

Smith, E.F. Wilt disease of cotton, watermelon, and cowpea (Neocosmospora nov.gen.). Div.Veg.Physiol.& Path.Bul.17, 72 p. 1899.

WHEAT. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Hurd, A.M. Hydrogen-ion concentration and varietal resistance of wheat to stemrust and other diseases. Jour.Agr.Res.23:373-386. 1923. (G-277)

Hursh, C.R. Morphological and physiological studies on the resistance of wheat to Puccinia graminis tritici Erikss. and Henn. Jour.Agr.Res.27:381-412. 1924. (G-358)

Webb, R.W., and others. Varietal resistance in winter wheat to the rosette disease. Jour.Agr.Res.26:261-270. 1923. (G-334)

WHEAT. DISEASES.

Basal glumerot.

McCulloch, L. Basal glumerot of wheat. [Bacterium atrofaciens n.sp.] Jour.Agr.Res.18:543-562. 1920. (G-185)

Black chaff.

Smith, E.F. A new disease of wheat [black chaff]. Jour.Agr.Res. 10:51-54. 1917. (G-115)

Bunt. See WHEAT. DISEASES. Smut. (Stinking smut)

Flag smut. See WHEAT. DISEASES. Smut. (Flag smut).

Helminthosporium.

McKinney, H.H. Influence of soil temperature and moisture on infection of wheat seedlings by Helminthosporium sativum. Jour. Agr.Res.26:195-218. 1923. (G-333)

Leaf mottling.

McKinney, H.H. and others. The intracellular bodies associated with the rosette disease and a mosaiclike leaf mottling of wheat. Jour.Agr.Res.26(1923):605-608. 1924. (G-346)

Nematodes.

Byars, L.P. The eelworm disease of wheat and its control. Farm. Bul.1041, 11 p. 1919. Rev. 1920.

---------- The nematode disease of wheat caused by Tylenchus tritici. Dept.Bul.842, 40 p. 1920.

---------- A serious eelworm or nematode disease of wheat. Off. Sec.Circ.114, 7 p. 1918.

Coleman, D.A., and Regan, S.A. Nematode galls as a factor in the marketing and milling of wheat. Dept.Bul.734, 16 p. 1918.

Rosette.

Humphrey, H.B., and Johnson, A.G. Take-all and flag smut, two wheat diseases new to the United States. Farm.Bul.1063, 8 p. 1919.

---------- and others. Take-all of wheat and its control. Farm Bul.1266, 12 p. 1921.

Johnson, A.G., and others. The rosette disease of wheat and its control. Farm.Bul.1414, 10 p. 1924.

McKinney, H.H., and others. The intracellular bodies associated with the rosette disease and a mosaiclike leaf mottling of wheat. Jour.Agr.Res.26(1923):605-608. 1924. (G-346)

WHEAT. DISEASES. (Cont.)

Rosette (Cont.)

McKinney, H.H. Investigations of the rosette disease of wheat and its control. Jour.Agr.Res.23:771-800. 1923. (G-285)

---------- and Larrimer, W.H. Symptoms of wheat rosette compared with those produced by certain insects. Dept.Bul.1137, 8 p. 1923.

Webb, R.W., and others. Varietal resistance in winter wheat to the rosette disease. Jour.Agr.Res.26:261-270. 1923. (G-334)

Rust.

Weiss, F.A. The effect of rust infection upon the water requirement of wheat. Jour.Agr.Res.27:107-118. 1924. (G-351)

Rust. Puccinia glumarum.

Humphrey, H.B. Another wheat pest. Stripe rust, a cereal disease new to this country, reported in northwestern states last year. Weekly News letter 3(33):1. 1916.

Hungerford, C.W., and Owens, C.E. Specialized varieties of Puccinia glumarum, and hosts for variety tritici. Jour.Agr.Res.25: 363-402. 1923. (G-327)

---------- Studies on the life history of stripe rust, Puccinia glumarum (Schm.) Erikss. & Henn. Jour.Agr.Res.24: 607-620. 1923. (G-305)

Rust. Puccinia graminis.

Aamodt, O.S. The inheritance of growth habit and resistance to stem rust in a cross between two varieties of common wheat. Jour. Agr.Res.24:457-470. 1923. (G-299)

Harrington, J.B., and Aamodt, O.S. The mode of inheritance of resistance to Puccinia graminis with relation to seed color in crosses between varieties of Durum wheat. Jour.Agr.Res.24:979-996. 1923. (G-313)

Hurd, A.M. The course of acidity changes during the growth period of wheat with special reference to stem-rust resistance. Jour. Agr.Res.27:725-735. 1924. (G-379)

Levine, M.N. A statistical study of the comparative morphology of biologic forms of Puccinia graminis. Jour.Agr.Res.24:539-568. 1923. (G-300)

---------- and Stakman, E.C. A third biologic form of Puccinia graminis on wheat. (Preliminary paper) Jour.Agr.Res.13:651-654. 1918. (Minn.-30)

Stakman, E.C. Barberry eradication prevents black rust in Western Europe. Dept.Circ.269, 15 p. 1923.

---------- The black stem rust and the barberry. Yearbook 1918:75-100. 1919.

---------- and others. Can biologic forms of stemrust on wheat change rapidly enough to interfere with breeding for rust resistance? Jour.Agr.Res.14:111-124. 1918. (Minn.-31)

---------- and Aamodt, O.S. The effect of fertilizers on the development of stem rust in wheat. Jour.Agr.Res.27:341-380. 1924. (G-354)

---------- and Piemeisel, F.J. Infection of timothy by Puccinia graminis. Jour.Agr.Res.6:813-816. 1916. (Minn.-10)

WHEAT. DISEASES. (Cont.)

Rust. Puccinia graminis. (Cont.)

Stakman, E.C., and others. Plasticity of biologic forms of Puccinia graminis. Jour.Agr.Res.15:221-250. 1918. (Minn.-33)

---------- Relation between Puccinia graminis and plants highly resistant to its attack. Jour.Agr.Res.4:193-200. 1915. (Minn.-4)

Legislation. See BARBERRY ERADICATION.

Rust. Puccinia graminis tritici.

Allen, R.F. Cytological studies of infection of Baart, Kanred, and Mindum wheats by Puccinia graminis tritici forms III and XIX. Jour.Agr.Res.26(1923):571-604. 1924. (G-345)

---------- A cytological study of infection of Baart and Kanred wheats by Puccinia graminis tritici. Jour.Agr.Res.23:131-151. 1923. (G-266)

Hayes, H.K., and others. Genetics of rust resistance in crosses of varieties of Triticum vulgare with varieties of T. durum and T. dicoccum. Jour.Agr.Res.19:523-542. 1920. (Minn.-41)

Hungerford, C.W. Rust in seed wheat and its relation to seedling infection. Jour.Agr.Res.19:257-278. 1920. (G-195)

Hursh, C.R. Morphological and physiological studies on the resistance of wheat to Puccinia graminis tritici Erikss. and Henn. Jour.Agr.Res.27:381-412. 1924. (G-353)

Melchers, L.E., and Parker, J.H. Rust resistance in winter-wheat varieties. Dept.Bul.1046, 32 p. 1922.

Rust. Puccinia triticina.

Jackson, H.S., and Manns, E.B. Aecial stage of the orange leaf-rust of wheat, Puccinia triticina Eriks. Jour.Agr.Res.22:151-172. 1921. (G-247)

Rust. Resistant varieties.

Clark, J.A. Segregation and correlated inheritance in crosses between Kota and Hard Federation wheats for rust and drought resistance. Jour.Agr.Res.29(1924):1-47. 1925. (G-399)

Hayes, H.K., and Aamodt, O.S. A study of rust resistance in a cross between Marquis and Kota wheats. Jour.Agr.Res.24: 997-1012. 1923. (G-314)

New rust-resistant wheat developed. Off.Record 2:2. Nov.14, 1923.

See also CEREALS. DISEASES. Rust.

Scab. Gibberella saubinetii.

Atanasoff, D. Fusarium-blight (scab) of wheat and other cereals. Jour.Agr.Res.20:1-32. 1920. (Wis.-18)

Dickson, J.G. Influence of soil temperature and moisture on the development of the seedling-blight of wheat and corn caused by Gibberella saubinetii. Jour.Agr.Res.23:837-870. 1923. (G-288)

Hoffer, G.N., and others. Corn-rootrot and wheat scab. (Preliminary paper). Jour.Agr.Res.14:611-613, 1918. (G-157)

Johnson, A.G., and Dickson, J.G. Wheat scab and its control. Farm.Bul.1224, 16 p. 1921.

Koehler, B., and others. Wheat scab and corn rootrot caused by Gibberella saubinetii in relation to crop successions. Jour.Agr. Res.27:861-880. 1924. (G-373)

WHEAT. DISEASES. (Cont.)

Sclerospora macrospora.

Weston, W.H. The occurrence of wheat downy mildew in the United States. Dept.Circ.186, 6 p. 1921.

Smut. (Flag smut). Urocystis tritici.

Griffiths, M.A. Experiments with flag smut of wheat and the causal fungus, Urocystis tritici Ecke. Jour.Agr.Res.27:425-450. 1924. (G-366)

Humphrey, H.B., and Johnson, A.G. Take-all and flag smut, two wheat diseases new to the United States. Farm.Bul.1063, 8 p. 1919.

Noble, R.J. Studies on the parasitism of Urocystis tritici Koern., the organism causing flag smut of wheat. Jour.Agr.Res.27: 451-490. 1924. (G-371)

Tisdale, W.H., and others. Flag smut of wheat. Dept.Circ.273, 7 p. 1923.

---------- and Griffiths, M.A. Flag smut of wheat and its control. Farm. Bul.1213, 6 p. 1921.

Smut. (Flag smut). Legislation.

Quarantine on account of flag smut and take-all diseases. (Effective Aug.15,1919) Fed.Hort.Bd.Not.Quar.39 (with regulations), 6 p., Jul.2,1919. Reprinted in S.R.A., Jun./Jul.1919.

Smut. (Loose smut). Ustilago tritici.

Freeman, E.M., and Johnson, E.C. The loose smuts of barley and wheat. Bur.Plant Indus.Bul.152, 48 p. 1909.

Tapke, V.F. Effects of the modified hot-water treatment on germination, growth, and yield of wheat. Jour.Agr.Res.28:79-97. 1924. (G-362)

Smut. (Stinking smut). Tilletia.

Gaines, E.F. Genetics of bunt resistance in wheat. Jour.Agr.Res. 23:445-480. 1923. (Wash.-1)

Swingle, W.T. The prevention of stinking smut of wheat and loose smut of oats. Farm.Bul.250, 16 p. 1906.

[Swingle, W.T.] Treatment of smuts of oats and wheat. Farm. Bul.5, 8 p. 1892.

Thatcher, L.E. A fungus disease suppressing expression of awns in a wheat-spelt hybrid. Jour.Agr.Res.21:699-700. 1921. (Ohio-3)

Woolman, H.M., and Humphrey, H.B. Studies in the physiology and control of bunt, or stinking smut, of wheat. Dept.Bul.1239, 30 p. 1924.

---------- and Humphrey, H.B. Summary of literature on bunt, or stinking smut, of wheat. Dept.Bul.1210, 44 p. 1924.

Smut. See also CEREALS. DISEASES. Smut.

Take-all.

Rosen, H.R., and Elliott, J.A. Pathogenicity of Ophiobolus cariceti in its relationship to weakened plants. Jour.Agr.Res.25:351-358. 1923. (Ark.-4)

Take-all. Legislation. See CEREALS. DISEASES. Take-all. Legislation.

WHEAT. DISEASES. (Cont.)

Take all. (American disease) See WHEAT. DISEASES. Rosette.

Yellow berry.

Roberts, H.F. Yellow-berry in hard winter wheat. Jour.Agr. Res.18:155-169. 1919. (Kans.-19)

See also CEREALS. DISEASES.

WHEAT. SEED INFECTION.

Hungerford, C.W. Rust in seed wheat and its relation to seedling infection. Jour.Agr.Res.19:257-278. 1920. (G-195)

WHEAT. SEED TREATMENT.

Hurd, A.M. Injury to seed wheat resulting from drying after disinfection with formaldehyde. Jour.Agr.Res.20:209-244. 1920. (G-206)

---------- Seed-coat injury and viability of seeds of wheat and barley as factors in susceptibility to molds and fungicides. Jour. Agr.Res.21(2):99-122. 1921. (G-223)

Tapke, V.F. Effects of the modified hot-water treatment on germination, growth, and yield of wheat. Jour.Agr.Res.28:79-97. 1924. (G-362)

WHITE PINE. DISEASES.

Spaulding, P. The present status of the white-pine blights. Bur. Plant Indus.Circ.35, 12 p. 1909.

Blister rust. Cronartium ribicola.

Army air service assists in blister-rust campaign. Off.Record 2:2. Nov.14, 1923.

Dana, S.T. Extent and importance of the white pine blight. Forest Serv. [Unnumbered Publ.] 4 p. 1908.

Darrow, G.M., and Detwiler, S.B. Currants and gooseberries: their culture and relation to white-pine blister rust. Farm. Bul.1398, 38 p. 1924.

Detwiler, S.B. White-pine blister rust. Farm.Bul.1024:23-25. 1919. Rev.1922.

Gravatt, G.F., and Posey, G.B. Gipsy-moth larvae as agents in the dissemination of the white-pine blister rust. Jour.Agr.Res.12: 439-462. 1918. (G-135)

Colley, R.H. Diagnosing white-pine blister-rust from its mycelium. Jour.Agr.Res.11:281-286. 1917. (G-125)

---------- Parasitism, morphology and cytology of Cronartium ribicola. Jour.Agr.Res.15:619-660. 1918. (G-169)

Martin, J.F., and others. Treatment of ornamental white pines infected with blister rust. Dept.Circ.177, 20 p. 1921.

Moir, W.S. White-pine blister rust in western Europe. Dept. Bul.1186, 32 p. 1924.

Posey, G.B., and Ford, E.R. Survey of blister rust infection on pines at Kittery Point, Maine, and the effect of Ribes eradication in controlling the disease. Jour.Agr.Res.28:1253-1258. 1924. (G-445)

---------- and Boyce, J.S. White-pine blister rust in the western United States. Dept.Circ.226, 7 p. 1922.

The U. S. Department of Agriculture Library

The Library of the U. S. Department of Agriculture consists of the main Library and the branch libraries in the various Bureaus of the Department. It is a scientific, technical and statistical library. The Library is especially strong in agriculture in all its branches, including animal husbandry and dairying, agricultural statistics, agricultural economics, veterinary medicine, chemistry, economic zoology and entomology, forestry and lumbering, botany, plant pathology, agricultural bacteriology, and meteorology. The books and periodicals in the Bureau libraries, being part of the collection of the Department Library, are included in its card catalogue except in the case of the Weather Bureau whose library of 30,000 volumes is practically independent. The catalogue contains over a half million cards and forms a most extensive bibliography of the literature of agriculture and the related sciences.

The main Library does comparatively little indexing of journals but several of the Bureau libraries keep valuable card indexes to the periodical literature pertaining to their subjects, which supplement the card catalogue of the Library. The Librarians of the Bureau libraries, being more familiar with the needs of the Bureaus and the literature of their subjects, for the most part attend to the reference and bibliographical work of the Bureaus.

The Library contains over 180,000 volumes and pamphlets. Approximately 3,000 periodicals are received currently, exclusive of serials such as annual reports, proceedings, and the like. A list of both the periodical and serial publications being received currently was issued in 1922 as U. S. Department of Agriculture circular 187. The Library's collection of local, state and national official publications of American and foreign institutions and organizations having to do with agriculture and the related sciences is probably the most complete in existence. While exchanges are received from all parts of the world, constant vigilance is necessary in order to keep the library on the mailing lists and to learn of new publications. In spite of all efforts there are many gaps in the Library's collections. The cooperation of scientific workers and of publishing institutions in building up its collections is earnestly solicited. The Library of the Department is desirous of establishing exchange relations with all institutions which issue publications pertaining to the work of the Department, and will be glad to learn of special collections and old out of print books and periodicals pertaining to agriculture or the related sciences.

The Department of Agriculture Library has no official connection with the Library of Congress but has the privilege of borrowing from that and other Washington libraries, material needed for use in the investigations of the Department. It lends to a limited extent from its own collections for purposes of research to other libraries and institutions throughout the country, especially to the various agricultural experiment stations whose work is along similar lines. While the first duty of the Library is to serve the Department, it endeavors, as the national agricultural library, to render as wide service as possible.