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UNITED STATES DEPARTMENT OF AGRICULTURE

LIBRARY

Number 16

BIBLIOGRAPHICAL CONTRIBUTIONS

June, 1928.

AUTHOR AND SUBJECT INDEX
to the
Publications on Plant Pathology
issued by the
State Agricultural Experiment Stations
up to December 1, 1927

Compiled by

Jessie M. Allen
Librarian, Bureau of Plant Industry

Washington, D. C.

320107

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P R E F A C E

The "Check List of Publications of the State Agricultural Experiment Stations on the Subject of Plant Pathology, 1876-1920", issued in 1922 by the Bureau of Plant Industry Library as U. S. Department of Agriculture Bibliographical Contribution No. 2, is now exhausted. Instead of a reprint or new edition, it was decided to issue this author and subject index covering the publications of the state agricultural experiment stations on plant pathology up to December 1, 1927, with the exception of publications on diseases caused by insects.

In the preparation of this index some appraisal of the publications has been made by the compiler in the case of subjects upon which there are many contributions, in that some of the less important have been eliminated, particularly those on control of diseases. In the subject section, general publications, mainly the reports of the plant pathologists of the various stations, which could be entered only under the subject PLANT DISEASES have been omitted.

To reduce the size of the index, titles are given only in the author section. Reference may be made from the authors and dates given under subjects to the full entries in the author section. The first dates in curves following some of the authors' names in the subject section are the respective dates of their annual reports which have only a general entry in the author section. The second dates in curves in the annual report references are the respective years covered by the volumes.

The Library is interested in establishing exchange relations with institutions which issue publications on plant pathology and other subjects pertaining not only to plant industry but also to other branches of the work of the Department. It should be explained, however, that the publications of the state agricultural experiment stations and the reprints of their contributions to the Journal of Agricultural Research are not distributed by the Department of Agriculture. Recent publications may be available on application to the stations issuing them. Addresses of the stations are given on page III - X in connection with the list of series covered.

Claribel R. Barnett,
Librarian, U. S. Department of Agriculture.

COMPILER'S ACKNOWLEDGMENTS

The Library of the Bureau of Plant Industry, in cooperation with the Office of Botany of the Bureau, maintains a comprehensive card index catalogue of botanical literature, consisting of an author section and two separate subject sections, one for general botany and the other for plant pathology. Most of the subject headings in the following index are those used in the plant pathology section which was started by Miss Eunice R. Oberly, former librarian of the Bureau, and maintained by her until her death in 1921. Since that date it has been continued by Miss Alice C. Atwood, Botanical bibliographer, who is also in charge of the author and botanical subject sections of the catalogue.

In the preparation of this index Miss Atwood has given advisory assistance, and Miss Marjorie F. Warner, in charge of the Bureau Library sub-project on bibliography of horticulture and cultivated plants, has given both advisory and active assistance in the compilation of material and preparation of copy.

Acknowledgment is also made to plant pathologists of the Bureau of Plant Industry, particularly to Dr. A. G. Jonnson, for valuable suggestions which have been of much help in planning and developing the index.

Jessie M. Allen,

Librarian, Bureau of Plant Industry.

LIST OF SERIES COVERED

As the Hatch Act grant for state agricultural experiment stations became effective in 1887, most of the series of publications begin about that date but a few of the states had established stations and issued publications before that time. Since 1914, many technical papers contributed by the stations have been published in the Journal of Agricultural Research of the U. S. Department of Agriculture, and these are included in the index. The state abbreviation with key number indicates the contributing station.

All of the series listed below have been examined but some of them, especially the annual reports, do not contain any important material on plant pathology. Anonymous contributions, press bulletins and some other popular series have been omitted from the index.

ALABAMA AGRICULTURAL EXPERIMENT STATION. Auburn, Ala.			
Annual Report.	1st-36th.	1888-[1926].	(1888-1924/25)
Bulletin.	No.1-225.	1888-1926.	
Circular.	No.1-51.	1906-1926.	
Jour.Agr.Research.	Ala.1-13.	1916-1926.	(vol. 5-32)
ARIZONA AGRICULTURAL EXPERIMENT STATION. Tucson, Ariz.			
Annual Report.	1st-34th.	1890-[1923].	(1890-1922/23)
Bulletin.	No.1-119.	1890-1926.	
Technical Bulletin.	No.1-15.	1922-1927.	
Timely Hints for Farmers	No.1-156.	1899-1926.	
Jour.Agr.Research.	Ariz.1.	1923.	(vol.26)
ARKANSAS AGRICULTURAL EXPERIMENT STATION. Fayetteville, Ark.			
Annual Report.	1st-38th.	1889-1926.	(1888-1925/26)
Bulletin.	No.1-222.	1888-1927.	
Circular.	No.1-50.	1909-1924.	
Jour.Agr.Research.	Ark.1-8.	1921-1926.	(vol.22-33)
CALIFORNIA AGRICULTURAL EXPERIMENT STATION. Berkeley, Calif.			
Report.	Unnumbered.	1877-1926.	(1876-1925/26)
Report of Viti- cultural Work.	Unnumbered.	1886-1896.	(1883/85-1887/93)
Bulletin.	No.1-443.	1884-1927.	
Circular.	No.1-310.	1903-1927.	
Hilgardia.	Vol.1-3, no.1.	1925-1927.	
Technical Paper.	No.1-20.	1923-1925.	
Jour.Agr.Research.	Calif.1-47.	1915-1927.	(vol.4-35)

COLORADO AGRICULTURAL EXPERIMENT STATION.		Fort Collins, Colo.
Annual Report.	1st-40th.	1888-1927. (1888-1926/27)
Bulletin.	No.1-323	1887-1927.
Jour.Agr.Research.	Colo. 1-3	1915-1927. (vol.5-34)
CONNECTICUT AGRICULTURAL EXPERIMENT STATION.		New Haven, Conn.
Annual Report.	[1st]-50th.	1878-1927. (1877-1925/26)
Bulletin.	No.1-289.	1877-1927.
Bulletin of Immediate Information.	No.1-53.	1905-1926.
Tobacco Sub-Station. Bulletin.	No.1-8.	1922-1927.
CONNECTICUT (STORRS) AGRICULTURAL EXPERIMENT STATION.		Storrs, Conn.
Annual Report.	1st-[37th].	1888-[1926]. (1888-1924/25)
Bulletin.	No.1-145.	1888-1927.
DELAWARE AGRICULTURAL EXPERIMENT STATION.		Newark, Del.
Annual Report.	1st-18th.	1888-1907. (1888-1905/06)
" "	Bulletins.	1908-1926. (1906/07-1925/26)
Bulletin.	No.1-151.	1888-1927.
Special Bulletin.	A-B	1890-1895.
Jour.Agr.Research.	Del.1-6.	1916-1927. (vol.5-34)
FLORIDA AGRICULTURAL EXPERIMENT STATION.		Gainesville, Fla.
Report.	Unnumbered.	1889-1926. (1888-1925/26)
Bulletin.	No.1-190.	1888-1927.
Jour.Agr.Research.	Fla.1-2.	1915-1925. (vol.5-30)
GEORGIA AGRICULTURAL EXPERIMENT STATION.		Athens, Ga.
Annual Report.	[1st]-39th.	1888-1927. (1888-1926)
Bulletin.	No.1-147.	1888-1927.
Circular.	No.4-81.	1894-1927.
Jour.Agr.Research.	Ga.1-5.	1917-1927. (vol.10-34)
IDAHO AGRICULTURAL EXPERIMENT STATION.		Moscow, Idaho.
Annual Report.	Unnumbered.	1894-1908. (1893-1907/08)
Annual Report.	Bulletins.	1915-1927. (1914/15-1926)
Bulletin.	No.1-156.	1892-1927.
Circular.	No.1-48.	1916-1927.
Research Bulletin.	No.1-6.	1922-1926.
Special Bulletin.	Unnumbered.	1897-1907.
Jour.Agr.Research.	Idaho 1-9.	1918-1926. (vol.14-31)
ILLINOIS AGRICULTURAL EXPERIMENT STATION.		Urbana, Ill.
Annual Report.	1st-40th.	1888-1927. (1887/88-1926/27)
Bulletin.	No.1-298.	1888-1927.
Circular.	No.1-319.	1897-1927.
Jour.Agr.Research.	Ill.1-31.	1915-1927. (vol.4-35)

INDIANA AGRICULTURAL EXPERIMENT STATION. La Fayette, Ind.

Annual Report.	1st-39th.	[1889-1926]	(1888-1925/26)
Bulletin.	No.1-311.	1885-1927.	
Circular.	No.1-143.	1906-1927.	
Jour.Agr.Research.	Ind.1-31.	1915-1926.	(vol.5-31)

IOWA AGRICULTURAL EXPERIMENT STATION. Ames, Iowa

Annual Report.	Unnumbered.	1889-[1927]	(1888-1925/26)
Bulletin.	No.1-242.	1888-1927.	
Circular.	No.1-106.	1904-1927.	
Research Bulletin.	No.1-104.	1911-1927.	
Jour.Agr.Research.	Iowa 1-13.	1916-1927.	(vol.5-34)

KANSAS AGRICULTURAL EXPERIMENT STATION. Manhattan, Kans.

Annual Report.	1st-21st.	1889-1909.	(1888-1907/08)
Report.	Unnumbered.	1915-1926.	(1915/14-1924/26)
Bulletin.	No.1-241.	1888-1927.	
Circular.	No.1-133.	1909-1927.	
Technical Bulletin.	No.1-21.	1916-1926.	
Jour.Agr.Research.	Kans.1-51.	1916-1927.	(vol.5-34)

KENTUCKY AGRICULTURAL EXPERIMENT STATION. Lexington, Ky.

Annual Report.	1st-39th.	1890-[1927]	(1888-1926)
Bulletin.	No.1-279.	1885-1927.	
Circular.	No.1-38.	1885-1927.	
Jour.Agr.Research.	Ky.1-19.	1915-1926.	(vol.4-33)

LOUISIANA AGRICULTURAL EXPERIMENT STATION. Baton Rouge, La.

Annual Report.	1st-[38th].	1890-[1927].	(1888-1926)
Bulletin.	No.1-28.	1885-1889.	
" Ser. 2.	No.1-201.	1890-1927.	
Circular.	No.1-[4].	[1903-1910].	
Jour.Agr.Research.	La.1-4.	1919-1925.	(vol.18-29)

MAINE AGRICULTURAL EXPERIMENT STATION. Orono, Maine.

Annual Report.	[1st]-42d.	1886-1926.	(1885/86-1926)
Bulletin.	No.1-26.	1885-1888.	
" Ser. 2.	No.1-341.	1889-1927.	
[Publication]	No.151-541.	1903-1921.	
Jour.Agr.Research.	Maine 1-19.	1915-1926.	(vol.3-33)

MARYLAND AGRICULTURAL EXPERIMENT STATION. College Park, Md.

Annual Report.	1st-39th.	[1889-1926].	(1888-1925/26)
Bulletin.	No.1-290.	1888-1927.	
Circular Bulletin.	No.1-62.	1900-1907.	
Jour.Agr.Research.	Md.1-5.	1919-1926.	(vol.17-33)

MASSACHUSETTS (STATE) AGRICULTURAL EXPERIMENT STATION. Amherst, Mass.

Annual Report.	1st-12th.	1883-1894.	
Bulletin.	No.1-57.	1883-1895.	

MASSACHUSETTS AGRICULTURAL EXPERIMENT STATION. Amherst, Mass.

Annual Report (Hatch).	1st-18th.	1889-1906.	(1888-1905)
Bulletin (Hatch).	No.1-114.	1888-1907.	
Annual Report.	19th-[39th].	1907-[1927].	(1906-1926)
Bulletin.	No.115-236.	1888-1927.	
Circular.	No.1-73.	1907-1925.	
Technical Bulletin.	No.1-10.	1903-1926.	
Jour.Agr.Research.	Mass.1-15.	1915-1925.	(vol.5-31)

MICHIGAN AGRICULTURAL EXPERIMENT STATION. East Lansing, Mich.

Annual Report.	1st-38th.	1888-1927.	(1887-1925/26)
Bulletin.	No.1-292.	1885-1921.	
Circular Bulletin.	No.1-105.	1908-1927.	
Quarterly Bulletin.	Vol.1-10, No.1.	1918-1927.	
Special Bulletin.	No.1-166.	1894-1927.	
Technical Bulletin.	No.1-83.	1908-1927.	
Jour.Agr.Research.	Mich.1-15.	1915-1925.	(vol.5-31)

MINNESOTA AGRICULTURAL EXPERIMENT STATION. University Farm, St. Paul.
Minn.

Annual Report.	[1st]-34th.	1889-1927.	(1888-1925/26)
Bulletin.	No.1-236.	1888-1927.	
Technical Bulletin.	No.1-46.	1921-1927.	
Jour.Agr.Research.	Minn.1-56.	1914-1927.	(vol.3-35)

MISSISSIPPI AGRICULTURAL EXPERIMENT STATION. A. and M. College, Miss.

Annual Report.	1st-39th.	1889-[1927].	(1888-1925/26)
Bulletin.	No.1-241.	1888-1927.	
Circular.	No.1-74.	1904-1927.	
Technical Bulletin.	No.1-13.	1892-1927.	
Jour.Agr.Research.	Miss.1-2.	1916-1926.	(vol.7-32)

MISSOURI AGRICULTURAL EXPERIMENT STATION. Columbia, Mo.

Annual Report.	Unnumbered	[1889-1905].	(1888, 1896-1904)
" "	Bulletins.	1911-1926.	(1909/10-1925/26)
Bulletin.	No.1-35a.	1883-1888.	
"	No.1-252.	1888-1927.	
Circular.	No.1-160.	1896-1927.	
Research Bulletin.	No.1-106.	1910-1927.	
Jour.Agr.Research.	Mo.1-9.	1915-1926.	(vol.5-33)

MONTANA AGRICULTURAL EXPERIMENT STATION. Boseman, Mont.

Annual Report.	1st-33d.	1895-1926.	(1893/94-1895/96)
Bulletin.	No.1-202.	1894-1927.	
Circular.	No.1-135.	1901-1927.	
Jour.Agr.Research.	Mont.1-18.	1915-1927.	(vol.4-35)

- NEBRASKA AGRICULTURAL EXPERIMENT STATION. Lincoln, Nebr.
- | | | | |
|--------------------|-----------|--------------|------------------|
| Annual Report. | 1st-40th. | 1888-[1927]. | (1887-[1925/26]) |
| Bulletin. | No.1-222. | 1887-1927. | |
| Circular. | No.1-35. | 1917-1927. | |
| Research Bulletin. | No.1-42. | 1913-1927. | |
| Jour.Agr.Research. | Nebr.1-6. | 1916-1924. | (vol.7-27) |
- NEVADA AGRICULTURAL EXPERIMENT STATION. Reno, Nev.
- | | | | |
|--------------------|-------------|------------|----------------|
| Annual Report. | Unnumbered. | 1889-1926. | (1888-1925/26) |
| Bulletin. | No.1-109. | 1889-1926. | |
| Jour.Agr.Research. | Nev.1-3. | 1921-1925. | (vol.21-30) |
- NEW HAMPSHIRE AGRICULTURAL EXPERIMENT STATION. Durham, N. H.
- | | | | |
|---------------------|-----------|------------|-------------------|
| Annual Report. | 1st-24th. | 1889-1912. | (1887/88-1911/12) |
| " | " | Bulletins. | 1919-1925. |
| | | | (1917/18-1923/24) |
| Bulletin. | No.1-228. | 1888-1927. | |
| Circular. | No.1-25. | 1908-1925. | |
| Technical Bulletin. | No.1-34. | 1901-1927. | |
| Jour.Agr.Research. | N.H.1-6. | 1916-1927. | (vol.6-34) |
- NEW JERSEY AGRICULTURAL EXPERIMENT STATION. New Brunswick, N.J.
- | | | | |
|--------------------|-----------|------------|----------------|
| Annual Report. | 1st-47th. | 1880-1927. | (1880-1925/26) |
| Bulletin. | No.1-454. | 1880-1927. | |
| Circular. | No.1-206. | 1912-1927. | |
| Special Bulletin. | A-F. | 1882-1902. | |
| Jour.Agr.Research. | N.J.1-17. | 1915-1926. | (vol.4-32) |
- NEW MEXICO AGRICULTURAL EXPERIMENT STATION. State College, N. Mex.
- | | | | |
|--------------------|------------|--------------|-------------------|
| Annual Report. | 1st-38th. | 1890-[1927]. | (1889/90-1926/27) |
| Bulletin. | No.1-163. | 1890-1927. | |
| Jour.Agr.Research. | N.Mex.1-2. | 1926-1927. | (vol.33-34) |
- NEW YORK (CORNELL) AGRICULTURAL EXPERIMENT STATION. Ithaca, N.Y.
- | | | | |
|--------------------|---------------|------------|----------------|
| Annual Report. | 1st-40th. | 1889-1927. | (1888-1925/26) |
| Bulletin. | No.1-458. | 1888-1927. | |
| Circular. | No.1-20. | 1897-1900. | |
| " | N.S. | No.1-32. | 1908-1916. |
| Memoir. | | No.1-108. | 1913-1927. |
| Jour.Agr.Research. | N.Y.(Cornell) | | |
| | 1-11. | 1915-1927. | (vol.4-35) |
- NEW YORK (GENEVA) AGRICULTURAL EXPERIMENT STATION. Geneva, N.Y.
- | | | | |
|---------------------|--------------|------------|----------------|
| Annual Report. | 1st-45th. | 1883-1927. | (1882-1925/26) |
| Bulletin. | No.1-115. | 1883-1885. | |
| Bulletin. N.S. | No.1-546. | 1885-1927. | |
| Circular. | No.1-93. | 1903-1927. | |
| Technical Bulletin. | No.1-129. | 1906-1927. | |
| Jour.Agr.Research. | N.Y.(Geneva) | | |
| | 1-7. | 1915-1927. | (vol.4-34) |

- NORTH CAROLINA AGRICULTURAL EXPERIMENT STATION. State College Station,
Raleigh, N.C.
- | | | | |
|---------------------|-------------|--------------|----------------|
| Annual Report. | [1st]-49th. | 1879-[1927]. | (1878-1925/26) |
| Bulletin. | No.[1]-252. | 1878-1927. | |
| Circular. | No.1-35. | 1913-1917. | |
| Technical Bulletin. | No.1-29. | 1889-1927. | |
| Jour.Agr.Research. | N.C.1-24. | 1915-1927. | (vol.5-35) |
- NORTH DAKOTA AGRICULTURAL EXPERIMENT STATION. State College Station,
Fargo, N.Dak.
- | | | | |
|--------------------|-------------|------------|-------------------|
| Annual Report. | 1st-28th. | 1891-1919. | (1890-1916/17) |
| Biennial Report. | Unnumbered. | 1920-1926. | (1917/19-1923/25) |
| Bulletin. | No.1-212. | 1891-1927. | |
| Circular. | No.1-34. | 1914-1926. | |
| Jour.Agr.Research. | N.Dak.1-2. | 1921-1927. | (vol.21-34) |
- OHIO AGRICULTURAL EXPERIMENT STATION. Columbus, Ohio.
- | | | | |
|--------------------|-------------------|------------|----------------|
| Annual Report. | 1st-45th. | 1883-1927. | (1882-1925/26) |
| Bulletin. | No.1-22. | 1883-1887. | |
| " Ser.2. | No.1-413. | 1888-1927. | |
| " Tech.Ser. | Vol.1, No.1-8. | 1889-1915. | |
| Circular. | No.1-156. | 1888-1915. | |
| Monthly Bulletin. | Vol.1-10, No.5/6. | 1916-1925. | |
| Bi-Monthly " | Vol.10, No.7- | | |
| | Vol.12. | 1925-1927. | |
| Jour.Agr.Research. | Ohio 1-5. | 1915-1926. | (vol.4-33) |
- OKLAHOMA AGRICULTURAL EXPERIMENT STATION. Stillwater, Okla.
- | | | | |
|--------------------|------------|--------------|-------------------|
| Annual Report. | [2d]-31st. | [1894-1922]. | (1892/93-1921/22) |
| Biennial " | Unnumbered | [1924-1926]. | (1922/24-1924/26) |
| Bulletin. | No.1-166. | 1892-1927. | |
| Circular. | No.1-66. | [1899]-1927. | |
| Jour.Agr.Research. | Okla.1-9. | 1919-1927. | (vol.16-35) |
- OREGON AGRICULTURAL EXPERIMENT STATION. Corvallis, Oreg.
- | | | | |
|--|-------------|--------------|-------------------|
| Annual Report. | 1st-18th. | 1890-1906. | (1888/89-1905/06) |
| Biennial " | Unnumbered. | [1914-1924]. | (1912/14-1923/24) |
| Crop Pest & Horti-
cultural Report. | [1st]-3d. | [1913-1921]. | (1911/13-1915/20) |
| Bulletin. | No.1-229. | 1888-1927. | |
| Circular Bulletin. | No.1-20. | 1896-1912. | |
| Circular. | No.21-33. | 1920-1927. | |
| Research Bulletin. | No.1-3. | 1913-1914. | |
| Hood River Branch
Station Report. | Unnumbered | [1915-1917]. | (1913/14-1916) |
| Jour.Agr.Research. | Oreg.1-16. | 1917-1927. | (vol.10-34) |

- PENNSYLVANIA AGRICULTURAL EXPERIMENT STATION. State College, Penn.
- | | | | |
|--------------------|-------------|------------|----------------|
| Annual Report. | [1st]-39th. | 1888-1926. | (1887-1925/26) |
| Bulletin. | No.1-213. | 1887-1927. | |
| Jour.Agr.Research. | Pa.1-25. | 1916-1927. | (vol.7-35) |
- RHODE ISLAND AGRICULTURAL EXPERIMENT STATION. Kingston, R. I.
- | | | | |
|--------------------|-----------|------------|-------------|
| Annual Report. | 1st-39th. | 1889-1927. | (1888-1926) |
| Bulletin. | No.1-210. | 1889-1927. | |
| Jour.Agr.Research. | R.I.1-2. | 1917-1927. | (vol.11-35) |
- SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION. Clemson College, S. C.
- | | | | |
|--------------------|-----------|------------|----------------|
| Annual Report. | 1st-40th. | 1889-1927. | (1888-1926/27) |
| Bulletin. | No.1-8. | 1888-1890. | |
| " N.S. | No.1-242. | 1891-1927. | |
| Circular. | No.1-33. | 1910-1925. | |
| Jour.Agr.Research. | S.C.1-2. | 1917. | (vol.8-10) |
- SOUTH DAKOTA AGRICULTURAL EXPERIMENT STATION. Brookings, S. Dak.
- | | | | |
|---------------------|-------------|--------------|--------------------|
| Annual Report. | Unnumbered. | 1888-[1927]. | (1887/88-1926/27). |
| Bulletin. | No.1-228. | 1887-1927. | |
| Jour. Agr.Research. | S.D.1. | 1925. | (vol.30) |
- TENNESSEE AGRICULTURAL EXPERIMENT STATION. Knoxville, Tenn.
- | | | | |
|--------------------|------------------|--------------|-------------------|
| Annual Report. | Unnumbered. | 1884-1886. | (1883/84-1885/86) |
| " " | 1st-39th. | 1889-[1927]. | (1888-1926). |
| Bulletin. | Vol.1, No.1-138. | 1888-1927. | |
| Circular. | No.1-17. | 1926-1927. | |
| Special Bulletin. | A-E. | 1889-1890. | |
| Jour.Agr.Research. | Tenn.1-3. | 1914-1925. | (vol.3-30) |
- TEXAS AGRICULTURAL EXPERIMENT STATION. College Station, Tex.
- | | | | |
|--------------------|------------|--------------|-------------------|
| Annual Report. | 1st-14th. | 1889-1902. | (1888-1901/02) |
| " " | 25th-39th. | 1912-[1926]. | (1911/12-1925/26) |
| Bulletin. | No.1-364. | [1888]-1927. | |
| Circular. | No.1-47. | 1903-1927. | |
| Jour.Agr.Research. | Tex.1-5. | 1918-1926. | (vol.13-32) |
- UTAH AGRICULTURAL EXPERIMENT STATION. Logan, Utah.
- | | | | |
|--------------------|------------|-------------|-------------------|
| Annual Report. | 1st-17th. | [1891-1907] | (1890-1905/06) |
| Biennial Report. | Bulletins. | 1925-1926. | (1923/24-1925/26) |
| Bulletin. | No.1-202. | 1890-1927. | |
| Circular. | No.1-68. | 1904-1927. | |
| Jour.Agr.Research. | Utah 1-20. | 1915-1926. | (vol.5-33) |
- VERMONT AGRICULTURAL EXPERIMENT STATION. Burlington, Vt.
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|--------------------|-----------|------------|----------------|
| Annual Report. | 1st-39th. | 1888-1926. | (1887-1925/26) |
| Bulletin. | No.1-265. | 1887-1927. | |
| Jour.Agr.Research. | Vt.1-3. | 1916-1923. | (vol.5-26) |

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UNITED STATES DEPARTMENT OF AGRICULTURE:
 Journal of Agricultural Research.
 Vol.1-Vol.35, no.8. Oct.1913-Oct.1927.

ABBREVIATIONS USED.

States

Ala.	-----	Alabama	Nev.	-----	Nevada
Ariz.	-----	Arizona	N.H.	-----	New Hampshire.
Ark.	-----	Arkansas	N.J.	-----	New Jersey.
Calif.	-----	California	N.Mex.	-----	New Mexico
Colo.	-----	Colorado	N.Y.	-----	New York
Conn.	-----	Connecticut	N.C.	-----	North Carolina
Del.	-----	Delaware	N.Dak.	-----	North Dakota
Fla.	-----	Florida	Okla.	-----	Oklahoma
Ga.	-----	Georgia	Oreg.	-----	Oregon
Ill.	-----	Illinois	Penn.	-----	Pennsylvania
Ind.	-----	Indiana	R.I.	-----	Rhode Island
Kans.	-----	Kansas	S.C.	-----	South Carolina
Ky.	-----	Kentucky	S.Dak.	-----	South Dakota
La.	-----	Louisiana	Tenn.	-----	Tennessee
Md.	-----	Maryland	Tex.	-----	Texas
Mass.	-----	Massachusetts	Va.	-----	Virginia
Mich.	-----	Michigan	Vt.	-----	Vermont
Minn.	-----	Minnesota	Wash.	-----	Washington
Miss.	-----	Mississippi	W.Va.	-----	West Virginia
Mo.	-----	Missouri	Wis.	-----	Wisconsin
Mont.	-----	Montana	Wyo.	-----	Wyoming
Nebr.	-----	Nebraska			

Idaho, Maine, Iowa, Ohio and Utah not abbreviated.

Series

Bien. Rpt.	-----	Biennial Report.
Bimonth. Bul.	-----	Bi-monthly bulletin.
Bul.	-----	Bulletin.
Bul. Immed. Inform.	-----	Bulletin of Immediate Information.
Bul. Spec. Ser.	-----	Bulletin. Special Series.
Bul. Tech. Ser.	-----	Bulletin. Technical Series.
Circ.	-----	Circular.
Circ. Bul.	-----	Circular Bulletin.
Circ. Inform.	-----	Circular of Information.
Ext. Bul.	-----	Extension Bulletin.
Gen. Bul.	-----	General Bulletin.
Jour. Agr. Res.	-----	Journal of Agricultural Research.
Mem.	-----	Memoir.
Month. Bul.	-----	Monthly Bulletin.
Pop. Bul.	-----	Popular Bulletin.
Pub.	-----	Publication.
Quart. Bul.	-----	Quarterly Bulletin.
Rpt.	-----	Réport.
Rpt. Vitic. Work.	-----	Report of Viticultural Work.
Res. Bul.	-----	Research Bulletin.
Spec. Bul.	-----	Special Bulletin.
Tech. Bul.	-----	Technical Bulletin.
Tech. Paper	-----	Technical Paper.

SCIENTIFIC NAMES OF HOSTS
(With Common Names Used in Index)

<i>Abelmoschus esculentus</i>	OKRA
<i>Acer</i>	MAPLE
<i>Aesculus hippocastanum</i>	HORSE CHESTNUT
<i>Allium</i>	ONION -- WILD PLANTS (ALLIUM)
<i>Althaea rosea</i>	HOLLYHOCK
<i>Andropogon sorghum</i>	BROOM CORN -- KAFIR CORN -- SORGHUM -- SUDAN GRASS
<i>Antirrhinum majus</i>	SNAPDRAGON
<i>Apium graveolens</i>	CELERY
<i>Arachis hypogaea</i>	PEANUT
<i>Avena sativa</i>	OATS
<i>Beta vulgaris</i>	BEET -- SUGAR BEET
<i>Brassica</i>	CABBAGE -- CAULIFLOWER -- COLLARDS -- TURNIP
<i>Calamagrostis canadensis</i>	BLUE JOINT GRASS
<i>Capsicum annuum</i>	PEPPER
<i>Castanea</i>	CHESTNUT
<i>Celtis occidentalis</i>	HACKBERRY
<i>Citrullus vulgaris</i>	WATERMELON
<i>Onicus (Carduus) arvensis</i>	THISTLE
<i>Cochlearia armoracia</i>	HORSE RADISH
<i>Corylus</i>	FILBERT
<i>Cucumis</i>	CUCUMBER -- MELON
<i>Cucurbita</i>	SQUASH
<i>Cydonia vulgaris</i>	QUINCE
<i>Daucus carota</i>	CARROT
<i>Delphinium</i>	LARKSPUR
<i>Dianthus caryophyllus</i>	CARNATION
<i>Diospyros kaki</i>	PERSIMMON
<i>Eriobotrya japonica</i>	LOQUAT
<i>Fagus</i>	BEECH
<i>Ficus</i>	FIG
<i>Fragaria</i>	STRAWBERRY
<i>Glycine soja</i>	SOY BEAN
<i>Gossypium</i>	COTTON
<i>Hedera helix</i>	IVY
<i>Helianthus annuus</i>	SUNFLOWER
<i>Hibiscus sabdariffa</i>	ROSELLE
<i>Hicoria pecan (Carya olivaeformis)</i> ..	PECAN
<i>Hordeum</i>	BARLEY
<i>Humulus lupulus</i>	HOP
<i>Ipomoea batatis</i>	SWEET POTATO
<i>Juglans regia</i>	WALNUT
<i>Lactuca sativa</i>	LETTUCE
<i>Lathyrus odoratus</i>	SWEET PEA
<i>Ligustrum vulgare</i>	PRIVET
<i>Lilium</i>	LILY
<i>Linaria vulgaris</i>	TOAD-FLAX

Linum usitatissimum	FLAX
Lycopersicum esculentum	TOMATO
Malus	APPLE
Manihot utilissima	CASSAVA
Medicago sativa	ALFALFA
Nicotiana	TOBACCO
Olea europaea	OLIVE
Oryza sativa	RICE
Panax quinquefolium	GINSENG
Persea gratissima	AVOCADO
Phaseolus	BEAN -- BEAN (LIMA)
Phleum pratense	TIMOTHY
Phoenix dactylifera	DATE PALM
Picea	SPRUCE
Pinus	PINE -- WHITE PINE
Pisum sativum	PEA
Poa pratensis	KENTUCKY BLUE GRASS
Podophyllum peltatum	MANDRAKE
Populus	POPLAR
Prunus	ALMOND -- APRICOT -- CHERRY -- PEACH -- PLUM
Psidium guayava	GUAVA
Punicus granatum	POMEGRANATE
Pyrus	PEAR
Quercus	OAK
Raphanus sativus	RADISH
Rheum	RHUBARB
Ribes	CURRENT -- GOOSEBERRY
Ricinus communis	CASTOR OIL PLANT
Rosa	ROSE
Rubus	BLACKBERRY -- DEWBERRY -- LOGANBERRY -- RASPBERRY
Saccharum officinarum	SUGAR CANE
Secala cereale	RYE
Setaria (Chaetochloa) italica	MILLET
Solanum	EGGPLANT -- POTATO
Spinacia oleracea	SPINACH
Trifolium	CLOVER
Triticum	WHEAT
Trophaeolum	NASTURTIUM
Tulipa	TULIP
Ulmus	ELM
Vaccinium oxycoccus	CRANBERRY
Vigna sinensis	COWPEA
Vinca	PERIWINKLE
Viola	VIOLET
Vitis	GRAPE
Zantedeschia (Richardia) africana	CALLA LILY
Zea mays	MAIZE

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Bitter pit

Lewis, C.I. 1915. Oreg. Crop Pest Rpt. (1913/14) 2:35-37.

Stewart, F.C. 1899b. N.Y.(Geneva) Bul. 146: 215-219.

Bitter rot. Glomerella cingulata. (G. rufomaculans, Gloeosporium fructigenum, Gnomoniopsis fructigena)

Alwood, W.B. 1894. Va. Bul. 40. p.57-82.

----- 1902a. Va. Bul. 142. p.249-279.

APPLE. DISEASES. (Specific diseases, Cont.)

Bitter rot (Cont.)

Blair, J.C. 1902. Ill. Circ. 43. 27 p. (With A. V. Stubenrauch)

----- 1907a. Ill. Bul. 117. p.481-551.

----- 1907b. Ill. Circ. 112. 13 p.

Burrill, T.J. 1902. Ill. Bul. 77. p.351-366. (With J.C. Blair)

----- 1907. Ill. Bul. 118. p.553-608.

Clinton, G.P. 1902. Ill. Bul. 69. p.189-224.

Bitter rot. Control.

Garman, H. 1893a. Ky. Bul. 44. 32 p.

Hurt, R.H. 1927. Va. Bul. 254. 22 p. (With F.J. Schneiderhan)

Stinson, J.T. 1894. Ark. Bul. 26: 37-44.

Black root rot. *Xylaria mali*. See APPLE. DISEASES. *Xylaria* root rot.

Black rot. *Sclerotinia fructigena*. See APPLE. DISEASES. Brown rot.

Black rot. *Sphaeropsis malorum*. (*Physalospora cydoniae*)

Crabill, C.H. Va. Bul. 209. 16 p.

Culpepper, C.W. 1916. Jour. Agr. Res. 7: 17-40. (Ala.-3)
(With A.C. Foster and J.S. Caldwell)

Hesler, L.R. 1916. N.Y. (Cornell) Bul. 379. p.49-148.

Paddock, W. 1899-1900. N.Y. (Geneva) Bul. 163. p.179-206; Bul. 185. p.205-213.

Swartwout, H.G. 1927. Mo. Bul. 248. 15 p.

Walker, L.B. 1908. Nebr. Rpt. (1907) 21: 34-44.

Walton, R.C. 1920. Penn. Bul. 162. 39 p.

Wilson, G.W. 1913a. N.C. Rpt. (1911/12) 35: 47-55.

Black rot. Control.

Doran, W.L. 1925. Mass. Bul. 222. 10 p.

Garman, H. 1895. Ky. Bul. 59. p.113-129.

Black spot canker. See APPLE. DISEASES. Anthracnose.

Blight. See APPLE. DISEASES. Fire blight -- FRUIT AND FRUIT TREES. DISEASES. Fire blight.

Blister canker. See APPLE. DISEASES. Canker. *Nummularia discreta*.

Blossom blight. See APPLE. DISEASES. Fire blight.

Blotch. *Phyllosticta limitata*.

Stewart, F.C. (1896). N.Y. (Geneva) Rpt. (1895) 14: 545-546.

Blotch. *Phyllosticta solitaria*.

Gardner, M.W. 1923a. Ind. Bul. 267. 32 p. (With L. Greene and C.E. Baker)

----- 1923b. Jour. Agr. Res. 25: 403-418. (Ind.-12)

Guba, E.F. 1925. Ill. Bul. 256. p.481-557.

Martin, W.H. (1927) N.J. Rpt. (1925/26) 47: 329-332.

Selby, A.D. 1919. Ohio Bul. 333. p.489-505.

Blotch. Control.

Ballou, F.H. 1927. Ohio Bul. 413. 32 p. (With I. P. Lewis)

Fant, G.W. (1924) N.J. Rpt. (1922/23) 44: 408-409.

Gunderson, A.J. 1919b. Ill. Bul. 222. p.549-575.

Hewitt, J.L. 1911b. Ark. Circ. 7. 4 p.

Lewis, D.E. 1913. Kans. Bul. 196. p.519-574.

APPLE DISEASES. (Specific diseases. Cont.)

Blotch. Control. (Cont.)

McClintock, J.A. 1925. Tenn. Bul. 132. 8 p. (With C.D. Sherbakoff)

Talbert, T.J. 1924b. Mo. Circ. 124. 7 p.

Blue mold.

Jones, L.R. (1901) Vt. Rpt. (1900/01) 14: 235-237. (With W.A. Edson)

See also APPLE DISEASES. Storage and transportation rots.

Brooks spot. See APPLE DISEASES. Fruit spot.

Brown rot. Sclerotinia fructigena.

Heald, F.D. 1906b. Nebr. Rpt. (1905) 19: 82-91.

See also FRUIT AND FRUIT TREES. DISEASES. Brown rot.

Canker

Zeller, S.M. 1926b. Oreg. Circ. 73. 29 p.

See also under APPLE DISEASES: Anthracnose - Bitter rot -

Black rot - Die back - Fire blight - Septobasidium canker.

Canker. Control.

Hesler, L.R. 1915. (N.Y. (Cornell) Circ. 28. p.17-28.

Canker. Cytospora. See APPLE DISEASES. Die back.

Canker. Gloeosporium perennans.

Zeller, S.M. 1925. Oreg. Bul. 217. 17 p. (With L. Childs)

Canker. Glutinium macrosporium.

Zeller, S.M. 1927a. Jour. Agr. Res. 34: 489-496. (Oreg.-15)

Canker. Nectria galligena.

Paddock, W. 1899-1900. N.Y. (Geneva) Bul. 163. p.179-206;

Bul. 185. p.205-213.

Canker. Nymphaea discreta.

Anderson, H.W. 1922. Ill. Circ. 258. 16 p.

Cooper, J.R. 1917b. Nebr. Res. Bul. 12. 117 p.

Gloyer, W.C. 1912. Ohio Circ. 125. p.149-161.

----- 1921. N.Y. (Geneva) Bul. 485. 71 p.

Hasselbring, H. 1902. Ill. Bul. 70. p.225-259.

Pammel, L.H. 1912. Iowa Bul. 131: 212-215. (With C.M. King)

Swartwout, H.G. 1927. Mo. Bul. 248. 15 p.

Canker. Plenodomus fuscomaculans.

Coons, G.H. 1916c. Jour. Agr. Res. 5: 713-769. (Mich.-2)

Canker. Septobasidium. See APPLE DISEASES. Septobasidium canker.

Canker. Sphaeropsis malorum. See APPLE DISEASES. Black rot.

Cedar rust. See APPLE DISEASES. Rust.

Cephalothecium roseum. See APPLE DISEASES. Pink rot.

Clitocybe parasitica. See APPLE DISEASES. Root rot.

Collar rot.

Fulton, H.R. 1913b. Penn. Rpt. 1911/12: 251-253.

Orton, C.R. 1915a. Penn. Rpt. 1913/14: 152-160. (With J.F. Adams)

Thomas, H.E. 1926. N.Y. (Cornell) Bul. 448. 9 p.

APPLE. DISEASES. (Specific diseases. Cont.)

Coryneum foliicolum.

Lewis, C.E. 1909. Maine Bul. 170. p.183-200.

Crown gall. Bacterium tumefaciens.

Alwood, W.B. 1902c. Va. Bul. 140. p.185-212.

Greene, L. 1919. Iowa Res. Bul. 50. p.145-176. (With I.E. Melhus)

Reddick, D. 1924. N.Y.(Cornell) Mem. 73. 19 p. (With V.B. Stewart)

See also CROWN GALL.

Crown gall. Control

Melhus, J.E. 1921. Iowa Res. Bul. 69. p.157-172. (With T.J. Maney)

Die back. Cytospora.

Stevens, F.L. 1919b. Ill. Bul. 217. p.365-379.

Drouth spot.

Mix, A.J. 1916a. N.Y.(Geneva) Bul. 426. p.473-522.

Endomyces mali.

Lewis, C.E. 1910a. Maine Bul. 178. p.43-64.

Fire blight. Bacillus amylovorus. (Micrococcus amylovorus)

Cassidy, J. 1888. Colo. Rpt. (1888) 1: 64-70.

Dixon, E.L. 1926. Penn. Bul. 203. 22 p.

Gossard, H.A. 1922. Ohio Bul. 357. p.83-126. (With R.C. Walton)

Hewitt, J.L. 1913a. Ark. Bul. 113. p.493-505.

Jackson, H.S. 1910. Oreg. Circ. 7. 16 p.

Lathrop, F.H. 1918. N.Y.(Geneva) Bul. 451: 195-198.

Nixon, E.L. 1927. Penn. Bul. 212. 16 p.

Swingle, D.B. 1910. Mont. Circ. 2. 9 p.

----- 1921b. Mont. Circ. 98. 10 p.

Talbert, T.J. 1925b. Mo. Circ. 137. 8 p.

Whetzel, H.H. 1906a. N.Y.(Cornell) Bul. 236. p.99-138.

See also FRUIT AND FRUIT TREES. DISEASES. Fire blight.

Foliage diseases. See APPLE. DISEASES. Black rot -- APPLE.

DISEASES. Blotch. Phyllosticta limitata -- APPLE. DISEASES.

Leaf spots. -- APPLE. INJURIES. Spray injury.

Frog eye leaf spot. See APPLE. DISEASES. Black rot.

Fruit pit. See APPLE. DISEASES. Bitter pit.

Fruit spot Phoma pomi

Thomas, R.C. 1923. Ohio Month, Bul. 8: 91-96.

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

Storage and transportation rots.

Fusicladium dendriticum. See APPLE. DISEASES. Scab.

Galls. See APPLE. DISEASES. Crown gall.

Gloeosporium fructigenum. See APPLE. DISEASES. Bitter rot.

Gloeosporium malicorticis. See APPLE. DISEASES. Anthracnose.

Gloeosporium perennans. See APPLE. DISEASES. Canker. Gloeosporium perennans.

Glomerella rufomaculans. See APPLE. DISEASES. Bitter rot.

Glutinium macrosporium. See APPLE. DISEASES. Canker. Glutinium macrosporium.

APPLE. DISEASES. (Specific diseases. Cont.)

Gnarly disease. See under APPLE. INJURIES. Weather injuries.

Gymnosporangium juniperi-virginianae. See APPLE. DISEASES. Rust.

Internal breakdown. See APPLE. DISEASES. Storage and transportation rots.

Internal browning. See APPLE. DISEASES. Physiological.

Jonathan fruit spot.

Cook, M.T. (1915) N.J. Rpt. (1913/14) 35: 500-503. (With G.W. Martin)

Plagge, H.H. 1924. Iowa Bul. 222: 5-28. (With T.J. Maney)

Leaf rust. See APPLE. DISEASES. Rust.

Leaf spots.

Crabill, C.H. (1913) Va. Rpt. 1910-11/1911-12: 95-115.

Reed, H.S. 1912. Va. Bul. 195. 23 p. (With J.S. Cooley and J.T. Rogers)

See also APPLE. DISEASES. Black rot -- APPLE. DISEASES. Blotch.

Phyllosticta limitata -- APPLE. INJURIES. Spray injury.

Measles.

Hewitt, J.L. 1912b. Ark. Bul. 112. p.481-491. (With H.E. Truax)

Nectria ditissima. See APPLE. DISEASES. Canker. Nectria galligena.

New York apple tree canker. See APPLE. DISEASES. Black rot.

Nummularia discreta. See APPLE. DISEASES. Canker. Nummularia discreta.

Oedema. See APPLE. ABNORMAL GROWTHS.

Orange rust. See APPLE. DISEASES. Rust.

Penicillium expansum. See APPLE. DISEASES. Blue mold.

Perennial canker. See APPLE. DISEASES. Canker. Gloeosporium perennans.

Phoma mali.

Lewis, C.E. 1909. Maine Bul. 170. p.183-200.

Phoma pomi. See APPLE. DISEASES. Fruit spot.

Phyllachora pomigena. See APPLE. DISEASES. Sooty blotch.

Phyllosticta limitata. See APPLE. DISEASES. Blotch. Phyllosticta limitata.

Phyllosticta solitaria. See APPLE. DISEASES. Blotch. P. solitaria.

Physalospora cydoniae. See APPLE. DISEASES. Black rot (Hesler, L.R. 1916; Walton, L.R. 1920)

Physiological.

Mix, A.J. 1916a. N.Y.(Geneva) Bul. 426. p.473-522.

Morris, O.M. 1923. Wash. Bul. 177. 30 p.

Overholser, E.L. 1923. Calif. Bul. 370. 40 p. (With A.J. Winkler and H.E. Jacob)

Stewart, J.P. 1912. Penn. Rpt. 1910/11: 462-465.

Winkler, A.J. 1923b. Jour. Agr. Res. 24: 165-184. (Calif.-32)

See also APPLE. ABNORMAL GROWTHS -- APPLE. INJURIES. Weather injuries.-

FRUIT AND FRUIT TREES. DISEASES. Physiological; also the following subheads under APPLE. DISEASES: Bitter pit - Collar rot - Jonathan fruit spot - Measles - Scald - Water core.

Pink rot Cephalothecium roseum.

Craig, J. 1902. N.Y.(Cornell) Bul. 207. p.157-171. (With J.M. Van Hook)

Eustace, H.J. 1902a. N.Y.(Geneva) Bul. 227. p.367-389.

APPLE. DISEASES. (Specific diseases. Cont.)

Plenodomus fuscomaculans. See APPLE. DISEASES. Canker. Plenodomus fuscomaculans.

Ripe rot. See APPLE. DISEASES. Bitter rot.

Root rot. Armillaria mellea and Clytocybe parasitica.

Walker, E. 1902. Ark. Bul. 71: 29-32.

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

Rosette. See APPLE. DISEASES. Physiological (Morris, O.M. 1923)

Rot. See the following subheads under APPLE. DISEASES: Alternaria -

Bitter rot - Black rot - Blue mold - Brown rot - Pink rot -
Root rot.

Rust. Gymnosporangium juniperi-virginianae (G. macrosporus)

Chester, F.D. (1896). Del. Rpt. (1895/96) 8: 62-69.

Fulton, H.R. (1913) N.C. Rpt. (1911/12) 35: 62-66.

----- 1913c. Penn. Rpt. 1911/12: 253-254.

Giddings, N.J. 1915a. W. Va. Bul. 154. 73 p. (With A. Berg)

----- 1915b. W. Va. Circ. 15. 16 p. (With A. Berg)

----- 1918b. W. Va. Bul. 170. 71 p.

Jones, L.R. 1915a. Wis. Bul. 257. 30 p. (With E.T. Bartholomew)

Pammel, L.H. 1905. Iowa Bul. 84. 36 p.

Reed, H.S. (1913) Va. Rpt. 1910-11/1911-12: 82-94.

----- 1915b. Va. Tech. Bul. 9. 106 p. (With C.H. Crabill)

Stone, R.E. 1908. Ala. Circ. 2. 11 p.

Talbert, T.J. 1925a. Mo. Circ. 135. 8 p.

Woodworth, C.W. 1889. Ark. Rpt. (1888) 1: 127-130.

Rust. Control.

Emerson, R.A. 1905. Nebr. Bul. 88. 21 p.

Fromme, F.D. 1917a. Va. Rpt. 1914-15/1915-16: 179-183.

Reed, H.S. 1914. Va. Bul. 203. 28 p. (With J.S. Cooley and
C.H. Crabill)

Walton, R.C. 1918b. Ohio Month. Bul. 3: 86-88.

Scab. Venturia inaequalis (Fusicladium dendriticum)

Adams, J.F. 1925. Del. Bul. 140. 16 p.

Bailey, L.H. 1895a. N.Y. (Cornell) Bul. 84. p.1-34.

Beach, S.A. 1897c. N.Y. (Geneva) Bul. 140. p.665-690.

Childs, L. 1917a. Oreg. Bul. 141: 5-17.

----- 1917b. Oreg. Bul. 143. 11 p.

Clinton, G.P. 1901. Ill. Bul. 67. p.109-156.

Detmers, F. 1891b. Ohio Bul. (ser.2) [35] (v.4, no.9): 187-193.

Emerson, R.A. 1905. Nebr. Bul. 88. 21 p.

Frey, C.N. 1925. Jour. Agr. Res. 30: 529-540. (Wis.-28) (With
G.W. Keitt)

Galloway, B.T. 1890. Mich. Bul. 59: 28-29.

Keitt, G.W. 1926. Wis. Res. Bul. 73. 104 p. (With L.K. Jones)

Lawrence, W.H. 1904a. Wash. Bul. 64. 24 p.

----- 1906. Wash. Bul. 75. 14 p.

APPLE. DISEASES. (Specific diseases. Cont.)

Scab. Venturia inaequalis (Fusicladium dendriticum) (Cont.)

Martin, W.H. (1927) N.J. Rpt. (1925/26) 47: 332-334. (With E.S. Clark)

Morris, H.E. 1914a. Mont. Bul. 96. p.67-102.

Schneiderhan, F.J. 1924. Va. Bul. 236. 29 p. (With F.D. Fromme)

Trelease, W. 1884b. Wis. Rpt. (1883) 1: 45-56.

Wallace, E. 1913. N.Y.(Cornell) Bul.335. p.541-624.

Scab. Control

Ballou, F.H. 1927. Ohio Bul. 413. 32 p. (With I.P. Lewis)

Bennett, C.W. 1923a. Mich. Quart. Bul. 5: 130-134.

Blair, J.C. 1899. Ill. Bul. 54. p.181-204.

Butler, O. 1925b. N.H. Circ. 25. 8 p.

Chester, F.D. 1895. Del. Bul. 29: 18-24.

Doran, W.L. 1924. Mass. Bul. 219. 17 p. (With A.V. Osmun)

----- 1925. Mass. Bul. 222. 10 p.

Dutton, W.C. 1918a. Mich. Spec. Bul. 87. 24 p.

----- 1920b. Mich. Quart. Bul. 3: 55-59.

----- 1926a. Mich. Tech. Bul. 76. 18 p.

----- 1926b. Mich. Quart. Bul. 9: 52-54.

Emerson, R.A. 1907. Nebr. Bul. 98. 35 p.

----- 1908. Nebr. Bul. 106. 20 p. (With F.E. Denny)

Garman, H. 1893a. Ky. Bul. 44. 32 p.

Goff, E.S. 1890. Wis. Bul. 23. 11 p.

Green, W.J. 1891. Ohio Bul. (ser.2) [35] (v.4, no.9): 193-219.

Henderson, L.F. 1899. Idaho Bul. 20. p.77-95.

----- 1907a. Idaho Bul. 55. 27 p.

Hewitt, J.L. 1911b. Ark. Circ. 7. 4 p.

Jackson, H.S. 1915. Oreg. Hood River Branch Rpt. 1913/14: 6-18.

(With J.R. Winston)

Zeffer, C.A. 1894. Mo. Bul. 27. 24 p.

Keitt, G.W. 1926. Wis. Res. Bul. 73. 104 p. (With L.K. Jones)

Krout, W.S. 1923a. Mass. Bul. 214. p.29-41.

Lodeman, E.G. 1892. N.Y.(Cornell) Bul. 48. p.263-298.

Morse, W.J. 1913a. Maine Bul. 212. p.55-72. (With G. A. Yeaton)

Selby, A.D. 1908b. Ohio Circ. 87: 4-8.

Stinson, J.T. 1894. Ark. Bul. 26: 37-44.

Taft, L.R. 1890. Mich. Bul. 59: 30-42.

Thurston, H.W. 1924. Penn. Bul. 190: 20 p. (With R.C. Walton and F.N. Fagan)

Vincent, C.C. 1916. Idaho Bul. 85. 16 p.

Winston, J.R. 1916. Oreg. Hood River Branch Rpt. 1914/15: 30-46.

(With L. Childs)

Young, H.C. 1927a. Ohio Bul. 403. 28 p. (With C. May)

Scab. Bibliography

Morris, H.E. 1914a. Mont. Bul. 96: 82-102.

APPLE. DISEASES. (Specific diseases. Cont.)

Scald.

Green, S.B. 1895a. Minn. Bul. 39: 217-222.

Greene, L. 1913. Iowa Bul. 144: 370-378.

Plagge, H.H. 1926. Iowa Res. Bul. 91. p.43-72. (With T.J. Maney and F. Gerhardt)

Whitehouse, W.E. 1919. Iowa Bul. 192: 179-207.

Scald. Control.

Plagge, H.H. 1924. Iowa Bul. 222: 23-57. (With T.J. Maney)

----- 1925. Iowa Bul. 230. p.58-72. (With T.J. Maney)

Sclerotinia fructigena. See APPLE. DISEASES. Brown rot.

Septobasidium canker.

Wilson, G.W. 1913a. N.C. Rpt. (1911/12) 35: 47-55.

Soft scald. See APPLE. DISEASES. Scald.

Sooty blotch. *Phyllostora pomigena*.

Sturgis, W.C. (1898) Conn. Rpt. (1897) 21: 171-175.

Sphaeropsis malorum. See APPLE. DISEASES. Black rot.

Spots. See APPLE. DISEASES. Fruit spots.

Storage and transportation rots.

Beach, S.A. 1904. N.Y.(Geneva) Bul. 248: 104-110. (With V.A. Clark)

Eustace, H.J. 1903b. N.Y.(Geneva) Bul. 235. p.123-131.

----- 1908. N.Y.(Geneva) Bul. 297. p.31-48.

Lamson, H.H. 1902. N.H. Bul. 93: 75-81.

Storage and transportation rots. Control.

Plagge, H.H. 1924. Iowa Bul. 222. 64 p. (With T.J. Maney)

Whitehouse, W.E. 1919. Iowa Bul. 192: 179-207.

See also under APPLE. DISEASES: *Alternaria* - Anthracnose - Bitter pit - Bitter rot - Blotch - Blue mold - Brown rot - *Endomyces* - Fruit spot - Jonathan fruit spot - Pink rot - Scab - Scald - Water core.

Sun scald. See APPLE. DISEASES. Scald.

Tree cricket canker. *Leptosphaeria coniothyrium*.

Gloyer, W.O. 1916. N.Y. (Geneva) Tech. Bul. 50. 22 p. (With B.B. Fulton)

Twig blight. See APPLE. DISEASES. Fire blight.

Venturia inaequalis. See APPLES. DISEASES. Scab.

Water core.

Keil, J.B. 1916. Ohio Month. Bul. 1: 117-118.

Xylaria root rot.

Fromme, F.D. 1917c. Jour. Agr. Res. 10: 163-174. (Va.(Blacksburg)-1) (With H.E. Thomas)

Wolf, F.A. 1917b. Jour. Agr. Res. 9: 269-276. (N.C.-5) (With R.O. Cromwell)

APPLE. INJURIES.

Knight, H.H. 1922. N.Y.(Cornell) Bul. 410. p.445-498.

Freezing and frost injury. See APPLE. INJURIES. Weather injuries.

Fumigation injury.

Eustace, H.J. 1908. N.Y.(Geneva) Bul. 297. p.31-48.

Root and crown injury. See APPLE. DISEASES. Collar rot.

Root killing. See APPLE. INJURIES. Weather injuries.

APPLE. INJURIES. (Cont.)

Spray injury.

- Beach, S.A. 1895a. N.Y.(Geneva) Bul. n.s. 84. p.1-36.
Doran, W.L. 1925. Mass. Bul. 222. 10 p.
Farley, A.J. 1926. N.J. Rpt. (1924/25) 46: 114-127.
Heald, F.D. 1927. Wash. Bul. 213. 56 p. (With J.R. Neller,
F.L. Overley and H.J. Dana)
Reed, H.S. 1912. Va. Bul. 195. 23 p. (With J.S. Cooley and
J. T. Rogers)
Stewart, F.C. 1902a. N.Y.(Geneva) Bul. 220. p.217-233.
(With H.J. Eustace)

Weather injuries.

- Bradford, F.C. 1922a. Mo. Res. Bul. 56. 26 p. (With H.A.
Cardinell)
Carrick, D.B. 1924. N.Y.(Cornell) Mem. 81. 54 p.
Hansen, N.E. 1899. S.Dak. Bul. 65. 32 p.
Howard, R.F. 1924. Nebr. Bul. 199. 52 p.
Howlett, F.S. 1926. Ohio Bi-Month. Bul. 11: 104-109.
Potter, G.F. 1924. N.H. Tech. Bul. 27. 34 p.
Stewart, F.C. 1902a. N.Y.(Geneva) Bul. 220. p.217-233.
(With H.J. Eustace)
Thomas, H.E. 1926. N.Y.(Cornell) Bul. 448. 9 p.
Venable, W.H. 1917. Vt. Bul. 203: 12-13.
See also APPLE. DISEASES. Collar rot.

APPLE. KEEPING QUALITIES.

- Beach, S.A. 1904. N.Y.(Geneva) Bul. 248: 104-110. (With V.A.
Clark)
Greene, L. 1913. Iowa Bul. 144: 373-378.
Morris, O.M. 1925. Wash. Bul. 193. 44 p.
Plagge, H.H. 1926. Iowa Res. Bul. 91. p.43-72. (With T.J.
Maney and F. Gerhardt)

Apple. Resistant varieties. See APPLE. DISEASE RESISTANCE AND RE-
SISTANT VARIETIES.

Apple. Spraying. See APPLE. DISEASES. Control.

Apple. Storage and transportation rots. See APPLE. DISEASES. Storage
and transportation rots.

Apple tree anthracnose. See APPLE. DISEASES. Anthracnose.

APRICOT. DISEASES.

- Howard, W.L. 1922. Calif. Circ. 238: 33-40.
Smith, R.W. 1909. Calif. Bul. 203: 33-37.

See also FRUIT AND FRUIT TREES, DISEASES.

Bacillus amylovorus. See APRICOT. DISEASES. Fire blight.

Blight. See APRICOT. DISEASES. Fire blight.

Blossom blight. See APRICOT. DISEASES. Monilia blossom blight.

Brown rot. Schlerotinia cinerea.

- Howard, W.L. 1921. Calif. Bul. 326. p.73-88. (With W.F.
Horne)

Rudolph, B.A. 1922. Correction to Calif. Circ. 238. 2 p.
(See APRICOT. DISEASES, Howard, W.L. 1922)

See also APRICOT. DISEASES. Monilia blossom blight.

Fire blight. Bacillus amylovorus.

- Paddock, W. 1905a. Colo. Bul. 84. 14 p.

See also FRUIT AND FRUIT TREES. DISEASES. Fire blight.

APRICOT. DISEASES. (Cont.)

Monilia blossom blight. Sclerotinia cinerea.

Rudolph, B.A. 1925. Calif. Bul. 383. 55 p.

Monochaetia rosenwaldia.

Khazanoff, A. 1923. Jour. Agr. Res. 26: 45-60. (Calif.-36)

Armillaria mellea. See APPLE. DISEASES. Root rot -- FRUIT AND FRUIT TREES. DISEASES. Root rot -- GRAPE. DISEASES. Root rot -- ROOT DISEASES -- TREES. DISEASES. Root rot.

Arsenic. Injurious effects. See SPRAY INJURY. Arsenic.

Artificial light. Effect on plants. See ILLUMINATING GAS. EFFECT ON PLANTS.

Artotragus de baryanus (Synonym of Pythium debaryanum). See under DAMPING OFF (Atkinson, G.F. 1895)

Arum, Spotted. See AMORPHOPHALLUS SIMLENSE.

Ascospore discharge. See under FUNGUS SPORES. DISSEMINATION (Childs, L. 1917b)

Ascochyta. See RADISH. DISEASES. Ascochyta.

Ascochyta clematidina. See CLEMATIS. DISEASES. Ascochyta clematidina.

Ascochyta fragariae. See STRAWBERRY. DISEASES.

Ascochyta gossypii. See COTTON. DISEASES. Ascochyta gossypii.

Ascochyta lycopersici. See EGGPLANT. DISEASES. Phomopsis vexans.

Ascochyta pisi. See PEA. DISEASES. Ascochyta pisi.

ASPARAGUS. DISEASES.

Halsted, B.D. (1897) N.J. Rpt. (1896) 17: 407-410.

See also TRUCK CROPS. DISEASES.

Anthracnose.

Johnson, W.G. 1897. Md. Bul. 50. p.163-168.

Leopard spot. See ASPARAGUS. DISEASES. Anthracnose.

Puccinia asparagi. See ASPARAGUS. DISEASES. Rust.

Rust. Puccinia asparagi.

Anderson, A.P. 1899a. S.C.Bul. 38. 15 p.

Arthur, J.C. (1901) Ind. Rpt. (1899/1900) 13: 10-14.

Halsted, B.D. 1898. N.J. Bul. 129. 20 p.

----- 1900-04. N.J. Rpt. (1899) 20: 410-413; (1900) 21: 467-472; (1901) 22: 426-430; (1902) 23: 403-408; (1903) 24: 504-510.

Pammel, L.H. 1900. Iowa Bul. 53. p.58-67. (With E.R. Hodson)

Smith, R.E. 1904. Calif. Circ. 9. 20 p.

----- 1905b. Calif. Bul. 165. p.1-99.

Stone, G.E. 1899. Mass. (Hatch) Bul. 61. 20 p. (With R.E. Smith)

----- (1900) Mass. Rpt. (1898/99) 12: 61-73. (With R.E. Smith)

----- (1906) Mass. Rpt. (1905) 18: 140-143. (With N.F. Monahan)

Sturgis, W.C. (1897) Conn. Rpt. (1896) 20: 281-282.

Rust. Control.

Sirrine, F.A. 1900b. N.Y.(Geneva) Bul. 188. p.233-276.

Smith, R.E. 1906a. Calif. Bul. 172. 21 p.

- Aspergillus flavus. See MAIZE. DISEASES. Aspergillus.
Aspergillus niger. See MAIZE. DISEASES. Aspergillus -- ONION.
DISEASES. Storage and transportation rots.
- ASTER, CHINA. DISEASES.
Smith, R.E. 1902. Mass. (Hatch) Bul. 79. 26 p.
See also ORNAMENTAL PLANTS. DISEASES.
- Wilt. Fusarium.
Paddock, W. 1902. Colo. Bul. 69: 12-13.
- Atmospheric impurities. Effect on plants. See SMOKE AND SMELTER FUME
INJURY.
- AVOCADO. DISEASES.
Stevens, H.E. (1919-20). Fla. Rpt. 1917/18: 62R-67R; 1919/20:
30R-39R.
----- 1922. Fla. Bul. 161: 23 p.
Black spot. See AVOCADO. DISEASES.
Scab: Cladosporium citri. See AVOCADO. DISEASES.
- BACILLUS AMYLOVORUS.
Gossard, H.A. 1916. Ohio Month. Bul. 1: 274-276. (With R.C.
Walton)
See also subhead Fire blight under APPLE - APRICOT - FRUIT AND
FRUIT TREES - PEAR - PLUM.
- Bacillus atrosepticus. See POTATO. DISEASES. Black leg.
Bacillus avenae (n.sp.) See OATS. DISEASES. Bacterial blade blight.
Bacillus campestris (n.sp.) See TURNIP. DISEASES. Black rot.
Bacillus carotovorus. See AMORPHOPHALLUS SIMLENSE. DISEASES. Bacterial
soft rot. -- BACTERIAL SOFT ROTS -- CARROT. DISEASES. Soft rot.
Bacillus delphinii (Synonym of Bacterium delphinii). See LARKSPUR.
DISEASES. Bacterium delphinii.
Bacillus gossypina (n.sp.) See COTTON. DISEASES. Boll rot.
Bacillus lathyri (n.sp.) See BEAN. DISEASES (Kezer, A. 1917-18) --
LEGUMINOUS PLANTS. DISEASES. Streak -- SWEET PEA. DISEASES.
Streak.
- Bacillus melonis (n.sp.) See MELON. DISEASES. Bacterial soft rot.
Bacillus oleae. See OLIVE. DISEASES. Knot.
Bacillus radicumicola. See PEA. DISEASES. Bacterial. Bacillus radicumicola.
Bacillus sorghi. See SORGHUM. DISEASES. Blight.
Bacillus tracheiphilus. See MELON. DISEASES. Bacterial wilt.
- BACTERIAL DISEASES OF PLANTS.
Sackett, W.G. 1905. Mich. Bul. 230. p.203-220.
----- 1909. Colo. Bul. 138. 23 p.
Wolf, F.A. 1921. N.C. Tech. Bul. 20. 47 p. (With I.V. Shunk
and A.C. Foster)
See also CROWN GALL -- GUMMOSIS; and under various hosts the sub-
heads: Angular leaf spot - Bacterial - Black rot - Blast - Blight -
Brown rot - Canker - Crown gall - Fire blight - Gummosis - Holcus
bacterial spot - Soft rot - Streak - etc.
Bibliography. See under PLANT PATHOLOGY. BIBLIOGRAPHY.
Control. See under PLANT DISEASES. CONTROL.
Bacterial galls. See CROWN GALL.
Bacterial gums. See GUMMOSIS.

BACTERIAL SOFT ROT.

Harding, H.A. 1909. N.Y.(Geneva) Tech. Bul. 11: 251-287.
(With W.J. Morse) (Also issued as Vt. Bul. 147)

See also AMORPHOPHALLUS SIMLENSE. DISEASES. Bacterial soft
rot -- CARROT. DISEASES. Soft rot.

BACTERIUM ANGULATUM (n.sp.)

Fromme, F.D. 1919b. Jour. Agr. Res. 16: 219-228. (Va.(Blacks-
burg)-2) (With T.J. Murray)

See also TOBACCO. DISEASES. Angular leaf spot.

BACTERIUM CITRAREFACIENS (n.sp.)

Lee, H. A. 1917. Jour. Agr. Res. 9: 1-8. (Calif.-10)

See also CITRUS. DISEASES. Blast and black pit.

Bacterium dianthe. See CARNATION. DISEASES. Bacterium dianthe.

Bacterium exitiosum (Synonym of Bacterium vesicatorium) See TOMATO.
DISEASES. Bacterial canker (Gardner, M.W. 1921b)

Bacterium glycineum (n.sp.) See SOYBEAN. DISEASES. Bacterial blight.

Bacterium lachrymans. See CUCUMBER. DISEASES. Angular leaf spot.

BACTERIUM MALVACEARUM.

Faulwetter, R.C. 1916. S.C. Rpt.(1915/16) 29: 49-64.

See also COTTON. DISEASES. Angular leaf spot.

Bacterium phaseoli. See BEAN. DISEASES. Blight.

Bacterium phaseoli var. sojense. See SOYBEAN. DISEASES. Bacterium
phaseoli var. sojense.

Bacterium pruni. See FRUIT AND FRUIT TREES. Bacterium pruni --
PEACH. DISEASES. Bacterium pruni.

Bacterium savastanoi. See OLIVE. DISEASES. Knot.

Bacterium solanacearum. See PEANUT. DISEASES. Bacterial -- POTATO.
DISEASES. Brown rot -- TOBACCO. DISEASES. Wilt -- TOMATO.
DISEASES. Southern blight.

Bacterium tabacum. See TOBACCO. DISEASES. Wild fire.

Bacterium teutlium. See SUGAR BEET. DISEASES. Soft rot.

Bacterium translucens (n.sp.) See BARLEY. DISEASES. Bacterial blight.

Bacterium trifoliorum. See CLOVER. DISEASES. Bacterial leaf spot.

Bacterium tumefaciens. See CROWN GALL; and subhead Crown gall under
APPLE - GRAPE - PEACH.

Bacterium vesicatorium. See PEPPER. DISEASES. Bacterial -- TOMATO.
DISEASES. Bacterial canker.

Bacterium viridifaciens. See BEAN. DISEASES. Bacterium viridifaciens-
COWPEA. DISEASES. Bacterium viridifaciens.

BARBERRY ERADICATION.

Coons, G.H. 1918b. Mich. Quart. Bul. 1: 59-60.

Curran, G.C. 1926. Ill. Circ. 308. 12 p. (With B. Koehler)

Durrell, L.W. 1927a. Colo. Bul. 315. 18 p. (With E.A. Lun-
gren)

Johnson, A.G. 1919. Wis. Bul. 304. 16 p. (With J.G. Dickson)

Morris, H.E. 1925. Mont. Bul. 180. 24 p. (With W.L. Popham)

----- 1926c. Mont. Bul. 196. 24 p. (With W.L. Popham)

Thompson, N.F. 1923. Wis. Bul. 357. 28 p. (With J.G. Dickson)

BARLEY. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Griffiee, F. 1925. Jour. Agr. Res. 30: 915-935. (Minn.-55)

Hayes, H.K. 1923. Minn. Tech. Bul. 21. 47 p. (With E.C.
Stakman, F. Griffiee and J.J. Christensen)

BARLEY. DISEASES.

See also CEREALS. DISEASES.

Bacterial blight. Bacterium translucens.

Jones, L.R. 1917. Jour. Agr. Res. 11: 625-644. (Wis.-7)
(With A.G. Johnson and C.S. Reddy)

Bacterium translucens. See BARLEY. DISEASES. Bacterial blight.

Blight. See BARLEY. DISEASES. Helminthosporium gramineum -
BARLEY. DISEASES. Helminthosporium sativum.

Helminthosporium gramineum.

Pammel, L.H. 1910. Iowa Bul. 116. p.175-190. (With C.M.
King and A.L. Bakke)

Helminthosporium sativum.

Dosdall, L. 1923. Minn.Tech. Bul. 17. 47 p.

Griffiee, F. 1925. Jour. Agr. Res. 30: 915-935. (Minn.-55)

Hayes, H. K. 1923. Minn. Tech. Bul. 21. 47 p. (With E.C.
Stakman, F. Griffiee and J.J. Christensen)

Pammel, L.H. 1910. Iowa Bul. 116. p.175-190. (With C.M. King
and A.L. Pakke)

Late barley blight. See BARLEY. DISEASES. Helminthosporium sativum.

Rust.

Green, S.B. 1899. Minn. Bul. 6: 11-38.

See also CEREALS, DISEASES. Rust.

Smut.

Heald, F.D. 1908a. Nebr. Rpt. (1907) 21: 45-53.

Moore, R.A. 1904b. Wis. Rpt. (1903/04) 21: 317-320.

See also CEREALS. DISEASES. Smut.

Yellow leaf disease. See BARLEY. DISEASES. Helminthosporium gramineum.

Barley. Seed treatment. See BARLEY. Diseases. Smut (Heald, F.D. 1908a)

Barley, Wild. See HORDEUM JUBATUM.

Basisporium gallarum. See MAIZE. DISEASES. Dry rot. Basisporium
gallarum)

BEAN. DISEASES.

Beach, S.A. 1892c. N.Y.(Geneva) Bul. n.s. 48. p.307-333.

Chester, F.D. 1904. Del. Bul. 63: 24-28. (With C.O. Smith)

Cook, M.T. 1915. N.J. Circ. 50. 4 p.

----- 1917d. N.J. Circ. 84. 8 p.

----- 1922. N.J. Circ. 142. 8 p.

Fulton, H.R. 1908b. La. Bul. 101. 21 p.

Halsted, B.D. 1901. N.H. Bul. 151. 28 p.

Kezer, A. 1917-18. Colo. Bul. 226. 31 p.; Bul. 234. 32 p.
(With W.G. Sackett)

Muncie, J.H. 1914. Mich. Spec. Bul. 68. 12 p.

Whetzel, H.H. 1906b. N.Y.(Cornell) Bul. 239. p.195-214.

See also LEGUMINOUS PLANTS. DISEASES -- TRUCK CROPS. DISEASES.

Control

Coons, G.H. 1919a. Mich. Quart. Bul. 1: 104-106.

Anthracoise. Colletotrichum lindemuthianum.

Barrus, M.F. 1921. N.Y.(Cornell) Mem. 42. p.97-215.

Beach, S.A. 1892c. N.Y.(Geneva) Bul. n.s. 48: 307-329.

Edgerton, C.W. 1909. La. Bul. 116. 11 p.

BEAN. DISEASES. (Cont.)

Anthracnose. Colletotrichum lindemuthianum. (Cont.)

- Edgerton, C.W. 1910a. La. Bul. 119. 55 p.
----- 1916a. La. Bul. 155. 24 p. (With C.C. Moreland)
Garman, H. 1917b. Ky. Circ. 16. p.91-95.
Halsted, B.D. (1892) N.J. Rpt. (1891) 12: 284-287.
----- (1894) N.J. Rpt. (1893) 14: 347-352.
Harvey, F.L. (1894) Maine Rpt. (1893) 9: 152-153.
Leach, J.G. 1923. Minn. Tech. Bul. 14. 41 p.
Muncie, J.H. 1917. Mich. Tech. Bul. 38. 50 p.
Pammel, L.H. 1909. Iowa Bul. 104: 251-256. (With C.M. King)
Whetzel, H.H. 1908b. N.Y. (Cornell) Bul. 255. p.429-447.

Bacterial. *Bacillus lathyri*. See BEAN. DISEASES. (Kezer, A. 1917-18)

Bacterial blight. See BEAN. DISEASES. BLIGHT.

Blight. Bacterium phaseoli (Pseudomonas phaseoli)

- Barss, H.P. 1921. Oreg. Crop Pest Rpt. (1915/20) 3: 192-196.
Edgerton, C.W. 1913a. La. Bul. 139. 43 p. (With C.C. Moreland)
Halsted, B.D. (1893) N.J. Rpt. (1892) 13: 283-285.
Muncie, J.H. 1917. Mich. Tech. Bul. 38. 50 p.
Rapp, C.W. 1920. Okla. Bul. 131. 39 p.

Colletotrichum lindemuthianum. See BEAN. DISEASES. Anthracnose.
Corticium vagum (Rhizoctonia solani)

- Richards, B.L. 1923b. Jour. Agr. Res. 25: 431-450. (Utah-18)

Dry root rot. Fusarium martii phaseoli.

- Burkholder, W.H. 1919. N.Y. (Cornell) Memoir 26. p.997-1033.

Leaf spot. Phyllosticta phaseolina.

- Smith, C.O. 1905. Del. Bul. 70. 16 p.

Mosaic.

- Barss, H.P. 1921. Oreg. Crop Pest Rpt. (1915/20) 3: 192-196.
Phyllosticta phaseolina. See BEAN. DISEASES. Leaf spot.
Pod spot. See BEAN. DISEASES. Anthracnose.
Pseudomonas phaseoli. See BEAN. DISEASES. Blight.

Rust. Uromyces appendiculatus.

- Fromme, F.D. 1918. Va. Pul. 220. 18 p. (With S.A. Wingard)
----- 1921c. Jour. Agr. Res. 21: 385-404. (Va. (Blacksburg)-3) (With S.A. Wingard)
Pammel, L.H. 1909. Iowa Bul. 104: 256-259. (With C.M. King)

Streak. See BEAN. DISEASES. (Kezer, A. 1917-18)

Uromyces appendiculatus. See BEAN. DISEASES. Rust.

BEAN. SEED TREATMENT.

- Edgerton, C.W. 1913a. La. Bul. 139. 43 p. (With C.C. Moreland)

BEAN (LIMA). DISEASES.

Bacterium viridifaciens.

- Gardner, M.W. 1926. Jour. Agr. Res. (1925) 31: 841-863.
(Ind.-15) (With J.B. Kendrick)
Tisdale, W.B. 1923b. Jour. Agr. Res. 25: 141-154. (Wis.-23)
(With M.M. Williamson)

BEAN (LIMA). DISEASES. (Cont.)

Downy mildew. Phytophthora phaseoli.

Clinton, G.P. (1906) Conn. Rpt. (1905) 29: 278-303.

Halsted, B.D. (1923) N.J. Rpt. (1902) 23:399-403.

Sturgis, W.C. (1898-99) Conn. Rpt. (1897) 21: 159-166; (1898) 22: 236-241.

Thaxter, R. (1890) Conn. Rpt. (1889) 13: 167-171.

Phytophthora phaseoli. See BEAN (LIMA). DISEASES. Downy mildew.

BEECH. DISEASES.

Stewart, F.C. 1910b. N.Y.(Geneva) Bul. 328: 326-329.

See also TREES. DISEASES.

Tinder fungus rot. Fomes fomentarius. See BEECH. DISEASES.

White heart rot. Fomes igniarius. See BEECH. DISEASES.

BEECH. WEATHER INJURIES.

Cook, M.T. (1921) N.J. Rpt. (1919/20) 41: 570-573.

BEEF. DISEASES.

Halsted, B.D. 1895a. N.J. Bul. 107. 13 p.

See also TRUCK CROPS. DISEASES.

Actinomyces chromogenus. See BEEF. DISEASES. Scab.

Cercospora beticola. See BEEF. DISEASES.

Leaf spot. See BEEF. DISEASES.

Scab. Actinomyces chromogenus.

Boiley, H.L. 1891b. N.Dak. Bul. 4: 15-17.

BEGONIA. DISEASES.

Leaf spot.

Stone, G.E. (1897) Mass. (Hatch) Rpt. (1896) 9: 68-70. (With R.E. Smith)

Berries. See BLACKBERRY - DEWBERRY - RASPBERRY - SMALL FRUITS - STRAWBERRY.

Black knot. See this subhead under CHERRY - FRUIT AND FRUIT TREES - PEACH - PLUM.

BLACKBERRY. DISEASES.

Detmers, F. 1891a. Ohio Bul. (Ser.2) [32](v.4,no.6): 124-129.

See also SMALL FRUITS. DISEASES.

Anthraxnose. Gloeosporium venetum.

Lawrence, W.H. 1910a. Wash. Bul. 97: 18 p.

Rees, H.L. 1914b. Wash.(West.) Month. Bul. 2(5): 2-11.

----- 1915f. Wash.(West.) Month. Bul. 3(3): 2-10.

Double blossom. Fusarium rubi.

Reimer, F.C. 1912. N.C. Rpt. (1910/11) 34: 41-40. (With L.R. Detjen)

Fusarium rubi. See BLACKBERRY. DISEASES. Double blossom.

Gloeosporium venetum. See BLACKBERRY. DISEASES. Anthracnose.

Orange rust. See BLACKBERRY. DISEASES. Rust.

Puccinia peckiana. See BLACKBERRY. DISEASES. Rust.

Red rust. Caeoma nitens. See BLACKBERRY. DISEASES.

Rhizoctonia

Paddock, W. 1902. Colo. Bul. 69: 9-10.

Root disease. See BLACKBERRY. DISEASES. Rhizoctonia.

BLACKBERRY. DISEASES. (Cont.)

Rust. Puccinia peckiana.

Clinton, G.P. 1893. Ill. Bul. 29. p.273-300.

BLUE JOINT GRASS. DISEASES.

Sclerotium rhizoides.

Stout, A.B. 1911. Wis. Res. Bul. 18. p.207-261.

Bordeaux mixture. See FUNGICIDES. Bordeaux mixture.

Bordeaux mixture. Injurious effect on plants. See SPRAY INJURY.

Bordeaux mixture.

Bordeaux mixture. Physiological effects. See SPRAY INJURY.

Bordeaux mixture.

Botryosphaeria berengeriana. See PECAN. DISEASES. Die back.

BOTRYOSPHAERIA RIBIS.

Grossenbacher, J.G. 1911. N.Y.(Geneva) Tech. Bul. 18. p.113-190. (With B.M.Duggar)

See also CITRUS. DISEASES. Gummosis (Fawcett, H.S. 1925) --

CURRENT. DISEASES. Cane blight.

Botrytis diseases. See CASTOR OIL PLANT. DISEASES. -- LILY. DISEASES --

TOMATO. DISEASES. Botrytis sp.

BOTRYTIS ALII (n. sp.)

Munn, M.T. 1917. N.Y.(Geneva) Bul. 437. p.363-455.

See also ONION. DISEASES. Neck-rot.

Botrytis cinerea. See CITRUS. DISEASES. Gummosis -- GRAPE. DISEASES.

Gray rot -- GREENHOUSE PLANTS. DISEASES. Botrytis -- LETTUCE.

DISEASES. Botrytis cinerea -- PEAR. DISEASES. Blossom blight --

PELARGONIUM. DISEASES. Botrytis cinerea.

Botrytis parasitica (Synonym of B. tulipae) See TULIP. DISEASES.

Botrytis blight.

BOTRYTIS TULIPAE (nov.comb.)

Hopkins, E.F. 1921. N.Y.(Cornell) Mem. 45. p.311-361.

See also TULIP. DISEASES. Botrytis blight.

Botrytis vulgaris (Synonym of B. cinerea) See LETTUCE. DISEASES.

Botrytis cinerea.

Breeding for disease resistance. See under various hosts: DISEASE

RESISTANCE AND RESISTANT VARIETIES.

Bremia lactucae. See LETTUCE. DISEASES. Downy mildew.

BROOM CORN. DISEASES.

Smut. Cintractia sorghi-vulgaris.

Clinton, G.P. 1897. Ill. Bul. 47. p.373-412.

Brown rot. See this subhead under: APPLE - CITRUS - FRUIT AND FRUIT TREES - LEMON - POTATO.

Bulbs. See CALLA LILY - GLADIOLUS - LILY - TULIP.

CABBAGE. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Tims, E.C. 1926b. Jour. Agr. Res. 32: 183-199. (Wis.-34)

See also under CABBAGE. DISEASES. Yellows.

CABBAGE. DISEASES.

Close, C. P. 1909. Md. Bul. 133: 176-190. (With T.H. White)

Melhus, I.E. 1918. Iowa Circ. 46. 4 p. (With I.H. Vogel)

Stewart, F.C. 1919. N.Y.(Geneva) Bul. 463: 164-168.

CABBAGE. DISEASES. (Cont.)

See also CRUCIFERS. DISEASES -- TRUCK CROPS. DISEASES.

Black leg. Phoma lingam (P. oleraceae)

Manns, T.F. 1911a. Ohio Bul. 228. p.253-297.

----- 1922. Del. Bul. 132. 24 p.

Rex, E. G. 1925. Penn. Bul. 199. 23 p.

Black rot. Pseudomonas campestris.

Fawcett, H.S. (1908) Fla. Rpt. 1907/08: lxxv-lxxx.

Harding, H.A. 1904. N.Y.(Geneva) Bul. 251. p.177-194.

(With F.C. Stewart and M.J. Prucha)

Jones, L.R. 1898. Vt. Bul. 66. p.1-16.

Russell, H.L. 1898. Wis. Bul. 65. 39 p.

Stewart, F.C. 1903a. N.Y. Bul.(Geneva) Bul. 232. p.43-65.

(With H.A. Harding)

Club root. Plasmodiophora brassicae.

Atkinson, G.F. 1889. S.C. Rpt. (1888) 1: 15-18.

Gloyer, W.O. 1924. N.Y.(Geneva) Bul. 513: 22-26. (With

H. Glasgow)

Halsted, B.D. 1893. N.J. Bul. 98. 16 p.

Hulst, G.D. 1888. N.J. Bul. 50:14-20.

Jones, L.R. 1898. Vt. Bul. 66. p.1-16.

Lawrence, W.H. 1910c. Wash. Bul. 5 (Spec. ser.) 17 p.

Reed, H.S. 1911a. Va. Bul. 191. 12 p.

Stewart, F.C. N.Y.(Geneva) Rpt. (1895) 14: 525-529.

See also CLUB ROOT.

Corticium vagum. See CABBAGE. DISEASES. Wire stem.

Damping off. Rhizoctonia solani.

Gloyer, W.O. 1924. N.Y.(Geneva) Bul. 513: 6-20. (With

H. Glasgow)

Foot rot. See CABBAGE. DISEASES. Black leg.

Fusarium conglutinans. See CABBAGE. DISEASES. Yellows.

Fusarium wilt. See CABBAGE. DISEASES. Yellows.

Phoma lingam. See CABBAGE. DISEASES. Black leg.

Plasmodiophora brassicae. See CABBAGE. DISEASES. Club root.

Pseudomonas campestris. See CABBAGE. DISEASES. Black rot.

Rhizoctonia solani. See CABBAGE. DISEASES. Damping off.

Stem rot. See CABBAGE. DISEASES. Black leg.

Wilt, See CABBAGE. DISEASES. Yellows.

Wire stem. Corticium vagum.

Gratz, L.O. 1925a. N.Y.(Cornell) Mem. 85. 60 p.

Yellows. Fusarium conglutinans

Fromme, F.D. 1921b. Va. Bul. 226. 9 p.

Jones, L.R. 1915b. Wis. Res. Bul. 38. 70 p. (With

J.C. Gilman)

----- 1920. Wis. Res. Bul. 48. 34 p. (With J.C. Walker

and W.B. Tisdale)

Manns, T.F. 1911a. Del. Bul. 132. 24 p.

Melhus, I.E. 1926. Iowa Bul. 235. p.187-216. (With A.T.

Erwin and F. Van Haltern)

CABBAGE. DISEASES. (Cont.)

Yellows. Fusarium conglutinans. (Cont.)

Tims, E.C. 1926b. Jour. Agr. Res. 32: 183-199. (Wis.-34)

----- 1926c. Jour. Agr. Res. 33: 971-992. (Wis.-36)

Tisdale, W.B. 1923a. Jour. Agr. Res. 24: 55-86. (Wis.-20)

Caeoma nitens. See BLACKBERRY. DISEASES.

CALLA LILY. DISEASES.

Halsted, B.D. (1894) N.J. Rpt. (1893) 14: 399-401.

See also ORNAMENTAL PLANTS. DISEASES.

CANCER IN RELATION TO PLANTS.

Halsted, B.D. (1903) N.J. Rpt. (1902) 23: 398-399.

See also CROWN GALL.

Canker. See this subhead under various hosts.

Cantaloupe. See MELON.

CARNATION. DISEASES.

See also ORNAMENTAL PLANTS. DISEASES.

Bacterium dianthe.

Arthur, J.C. 1896. Ind. Bul. 59. p.13-38. (With H.L. Bolley)

Bud rot. Sporotrichum poae.

Heald, F.D. 1908b. Nebr. Bul. 103: 3-24.

Stewart, F.C. 1908d. N.Y.(Geneva) Tech. Bul. 7. p.83-119.

(With H.E. Hodgkiss)

Corticium vagum. See CARNATION. DISEASES. Stem rot. Corticium vagum.

Fairy ring. See CARNATION. DISEASES. Heterosporium.

Fusarium. See CARNATION. DISEASES. Leaf spot. Fusarium --

CARNATION. DISEASES. Stem rot. Fusarium.

Heterosporium.

Kinney, L.F. (1897) R.I. Rpt. (1896) 9: 203-206.

Leaf spot. Fusarium.

Stewart, F.C. 1899b. N.Y.(Geneva) Bul. 164: 219-220.

Rhizoctonia solani. See CARNATION. DISEASES. Stem rot. Corticium vagum.

Rust. Uromyces carophyllinus.

Blodgett, F.H. 1900. N.Y.(Geneva) Bul. 175. p.9-13.

Jones, L.R. (1895) Vt. Rpt. (1894) 8:115-118.

Kinney, L.F. (1897) R.I. Rpt. (1896) 9:207-210.

Stewart, F.C. 1896a. N.Y.(Geneva) Bul. n.s. 100. p.35-68.

----- 1897c. N.Y.(Geneva) Bul. 138. p.625-644.

Sporotrichum poae. See CARNATION. DISEASES. Bud rot.

Stem rot.

Card, F.W. 1899-1901. R.I. Rpt. (1899) 12: 131-135; (1899/1900)

13: 249-251; (1900/01) 14: 233-234. (With G.E. Adams)

Stem rot. Corticium vagum.

Peltier, G.L. 1919b. Ill. Bul. 223. p.577-607.

Stem rot. Fusarium.

Blake, M.A. 1911b. N.J. Rpt. (1910) 31: 78-81. (With A.J. Farley)

Sturgis, W.C. (1898) Conn. Rpt. (1897) 21: 175-181.

Uromyces caryophyllinus. See CARNATION. DISEASES. Rust.

CARROT. DISEASES.

See also TRUCK CROPS. DISEASES.

Bacillus carotovorus. See CARROT. DISEASES. Soft rot.
Sclerotium.

Stevens, F.L. (1908) N.C. Rpt. (1906/07) 30: 31-32.
Soft rot. Bacillus carotovorus.

Jones, L.R. (1900) Vt. Rpt. (1899/1900) 13: 299-332.

----- 1909b. N.Y.(Geneva) Tech. Bul. 11:289-368. (Also
issued as Vt. Bul. 147)

CASSAVA. DISEASES.

Chlorosis.

Floyd, B.F. (1909) Fla. Rpt. 1909/09: lxxvi-lxxviii.

Castor bean. See CASTOR OIL PLANT.

GASTOR OIL PLANT. DISEASES.

Stevens, H.E. (1919) Fla. Rpt. 1918/19: 31R-35R.

Botrytis sp. See CASTOR OIL PLANT. DISEASES.

Gray mold. Sclerotinia ficini. See CASTOR OIL PLANT. DISEASES.

CAULIFLOWER. DISEASES.

Clayton, E.E. 1924. N.Y.(Geneva) Bul. 506. 16 p.

See also TRUCK CROPS. DISEASES.

Black leg. Phoma lingam. See CAULIFLOWER. DISEASES.

Black rot. Pseudomonas campestris. See CAULIFLOWER. DISEASES.

Leaf scorch. See CAULIFLOWER. WEATHER INJURY..

Weather injury.

Stewart, F.C. 1899a. N.Y.(Geneva) Bul. 162. p.165-178.

Cedar apples. See CEDAR RUST.

CEDAR RUST.

Heald, F.D. 1909b. Nebr. Rpt. (1908) 22: 103-127.

Stone, R.E. 1908. Ala. Circ. 2. p.3-11.

Talbert, T.J. 1925a. Mo. Circ. 135. 8 p.

Weimer, J.L. 1917. N.Y.(Cornell) Bul. 390. p.505-549.

See also APPLE. DISEASES. Rust.

CELERY. DISEASES.

Beach, S.A. 1893b. N.Y.(Geneva) Bul. n.s. 51. p.133-145.

Coons, G.H. 1925c. Jour. Agr. Res. 31: 287-300. (Mich.-15)
(With L.J. Klotz)

Dye, H.W. 1924. N.Y.(Cornell) Bul. 429. 30 p. (With A.G.
Newhall)

Edmond, J.B. 1926. Mich. Spec. Bul. 157: 10-12.

Foster, A.C. 1924. Fla. Bul. 173. 77 p. (With G.F. Weber)

Halsted, B.D. 1892c. N.J. Spec. Bul. Q. 12 p.

Krout, W.S. 1917. N.J. Rpt. (1915/16) 37: 584-603.

----- 1919. N.J. Circ. 112. 12 p.

Poole, R.F. (1918) N.J. Rpt. (1916/17) 38: 536-539.

----- (1921-22) N.J. Rpt. (1919/20) 41: 608-609; (1920/21)
42: 461-462.

See also TRUCK CROPS. DISEASES.

Bacterial leaf spot. Pseudomonas apii (Bacterium apii)

Dye, H.W. 1924. N.Y.(Cornell) Bul. 429. 30 p. (With A.G.
Newhall)

CELERY. DISEASES. (Cont.)

Blackheart.

Foster, A.C. 1924. Fla. Bul. 173: 37-43. (With G.F. Weber)

Winters, R.Y. (1908) Fla. Rpt. 1907/08: xcix-ciii.

Blight. See CELERY. DISEASES. Late blight -- CELERY. DISEASES.

Leaf blight.

Cercospora apii. See CELERY. DISEASES. Leaf blight.

Damping off. See CELERY. DISEASES. *Sclerotinia libertiana*.

Late blight. *Septoria apii* (*S. petroselini*)

Chester, F.D. (1892) Del. Rpt. (1891) 4: 63-65.

Coons, G.H. 1916b. Mich. Spec. Bul. 77. 8 p. (With E. Levin)

----- 1923a. Mich. Quart. Bul. 5: 190-193.

Duggar, B.M. 1897. N.Y. (Cornell) Bul. 132: 201-220.

Krout, W.S. 1921. Jour. Agr. Res. 21: 369-372. (Mass.-6)

Rees, H.L. 1915b. Wash. (West.) Month. Bul. 2(11): 11-17.

Rogers, S.S. 1911. Calif. Bul. 208. p.83-115.

Sturgis, W.C. (1898) Conn. Rpt. (1897) 21: 167-171.

Leaf blight. *Cercospora apii*.

Duggar, B.M. 1897. N.Y. (Cornell) Bul. 132: 201-220.

Klotz, L.J. 1923. Mich. Tech. Bul. 63. 42 p.

Sturgis, W.C. (1898) Conn. Rpt. (1897) 21: 167-171.

Townsend, C.O. 1901b. Md. Bul. 74. p.167-182.

Leaf spot. See CELERY. DISEASES. Bacterial leaf spot -- CELERY.

DISEASES. Late blight.

Mosaic.

Foster, A.C. 1924. Fla. Bul. 173: 53-55. (With G.F. Weber)

Phoma apicola.

Bennett, C.W. 1921. Mich. Tech. Bul. 53. 40 p.

Coons, G.H. (1917) Mich. Rpt. (1916/17) 30: 318.

Phyllosticta leaf spot. *P. apii*. See CELERY. DISEASES. (Halsted, B.D. 1892c)

Physarum cinereum. See CELERY. DISEASES (Foster, A.C. 1924)

Pink rot. See CELERY. DISEASES. *Sclerotinia libertiana*.

Pseudomonas apii. See CELERY. DISEASES. Bacterial leaf spot.

Puccinia bullata. See CELERY. DISEASES (Halsted, B.D. 1892c)

Root rot. *Rhizoctonia*.

Van Hook, J.M. 1907b. Ohio Circ. 72. 6 p.

See also CELERY. DISEASES (Foster, A.C. 1924) -- CELERY. DISEASES.

Phoma apicola.

Rust. *Puccinia bullata*. See CELERY. DISEASES (Halsted, B.D. 1892c)

Sclerotinia libertiana.

Foster, A.C. 1924. Fla. Bul: 173: 24-28. (With G.F. Weber)

Poole, R.F. 1922a. N.J. Bul. 359. 27 p.

Septoria apii. See CELERY. DISEASES. Late blight.

Septoria petroselini var. *apii*. See CELERY. DISEASES. Late blight.

Slime mold. *Physarum cinereum*. See CELERY. DISEASES (Foster, A.C. 1924)

- Cephalothecium roseum. See APPLE. DISEASES. Pink rot.
- Cercospora angulata. See CURRANT. DISEASES. (Stewart, F.C. 1919)
- CERCOSPORA APII.
- Klotz, L.J. 1923. Mich. Tech. Bul. 63. 42 p.
- See also CELERY. DISEASES. (Coons, G.H. 1925a) -- CELERY. DISEASES. Leaf blight.
- Cercospora beticola. See BEET. DISEASES -- SUGAR BEET. DISEASES. Leaf spot.
- Cercospora brunkii. See PELARGONIUM. DISEASES. Leaf spot.
- Cercospora concors. See POTATO. DISEASES. Leaf blotch.
- Cercospora cruenta. See BEAN. DISEASES (Cook, M.T. 1915) -- COWPEA. DISEASES. Leaf spot. Cercospora cruenta.
- Cercospora nicotianae. See TOBACCO. DISEASES. Leaf spot.
- Cercospora personata. See PEANUT. DISEASES. Leaf spot.
- CEREALS. DISEASE RESISTANCE AND RESISTANT VARIETIES.
- Dwinelle, C.H. 1884. Calif. Rpt. 1883/84: 86-87.
- See also subhead Disease resistance and resistant varieties under BARLEY -- MAIZE -- OATS -- RYE -- WHEAT -- and WHEAT. DISEASES. Rust. Resistant varieties -- WHEAT. DISEASES. Smut. Resistant varieties.
- CEREALS. DISEASES.
- Bolley, H.L. 1910. N.Dak. Bul. 87. p.129-166.
- Cook, M.T. 1918c. N.J. Circ. 102. 16p. (With J.P. Helyar)
- Dickson, J.G. 1926a. Wis. Bul. 379. 36 p.
- Jackson, H.S. 1908. Del. Bul. 83. 25 p.
- McCarthy, G. 1896. N.C. Bul. 128. p.145-155.
- Pammel, L.H. 1892c. Iowa Bul. 18: 488-505.
- Speer, R.P. 1890. Iowa Bul. 10: 391-400.
- Taubenhaus, J.J. 1920b. Tex. Bul. 261. 34 p.
- Weniger, W. 1923. N.Dak. Bul. 166. 92 p.
- See also BARLEY -- MAIZE -- MILLET -- RICE -- RYE -- WHEAT.
- Control. See CEREALS. DISEASES. Smut. Control -- CEREALS. SEED TREATMENT.
- Anthracnose. Colletotrichum cereale.
- Selby, A.D. 1909. Ohio Bul. 203: 187-211. (With T.F. Manns)
- Black blight. See CEREALS. DISEASES. Cladosporium herbarum.
- Black stem rust. See BARBERRY ERADICATION -- CEREALS. DISEASES. Rust -- CEREALS. DISEASES. Rust. Puccinia graminis.
- Cladosporium herbarum.
- Pammel, L.H. 1909. Iowa Bul. 104: 248-250. (With C.M. King)
- Colletotrichum cereale. See CEREALS. DISEASES. Anthracnose.
- Fusarium. (Gibberella saubinetii)
- Atanasoff, D. 1920b. Jour. Agr. Res. 20: 1-32. (Wis.-18 In cooperation with Bur. of plant indus.)
- Selby, A.D. 1909. Ohio Bul. 203: 212-236.
- See also MAIZE. DISEASES. Fusarium -- WHEAT. DISEASES. Fusarium.
- Helminthosporium.
- Pammel, L.H. 1910. Iowa Bul. 116. p.175-190. (With C.M. King and A.L. Bakke)

CEREALS. DISEASES. (Cont.)

Helminthosporium (Cont.)

See also BARLEY, DISEASES. Helminthosporium -- OATS. DISEASES.

Helminthosporium -- WHEAT. DISEASES. Helminthosporium.

Helminthosporium sativum.

Christensen, J.J. 1922. Minn. Tech. Bul. 11. 42 p.

----- 1926. Minn. Tech. Bul. 37. 101 p.

Ophiobolus cariceti. See CEREALS. DISEASES. Take all.

Orange leaf rust. Puccinia triticina. See CEREALS. DISEASES. Rust.

Puccinia. See BARLEY. DISEASES. Rust.-- CEREALS. DISEASES. Rust --

OATS. DISEASES. Rust -- WHEAT. DISEASES. Rust.

Puccinia graminis. See CEREALS. DISEASES. Rust -- CEREALS. DISEASES.

Rust. Puccinia graminis -- WHEAT. DISEASES. Rust.

Puccinia graminis tritici. See CEREALS. DISEASES. Rust. (Stakman,

C.E. 1914) -- WHEAT. DISEASES. Rust. Puccinia graminis tritici.

Puccinia triticina (P. rubigovera) See CEREALS. DISEASES. Rust.

Rust. Puccinia.

Bolley, H.L. 1906a. N.Dak. Bul. 68. p.605-672.

Henderson, L.F. 1898. Idaho Bul. 11. 34 p.

Hitchcock, A.S. 1893. Kans. Bul. 38. 14 p. (With M.A. Carleton)

----- 1894b. Kans. Bul. 46. p.1-9. (With M.A. Carleton)

Melhus, I.E. 1919d. Iowa Circ. 62. 16 p. (With L.W. Durrell)

Olive, E.W. 1908. S.Dak. Bul. 109. 20 p.

Shaw, G.W. 1907. Calif. Bul. 185: 268-271.

Stakman, C.E. 1914. Minn. Bul. 138. 56 p.

See also BARBERRY ERADICATION -- BARLEY. DISEASES. Rust -- GRASSES

AND FORAGE PLANTS. DISEASES. Rust -- OATS. DISEASES. Rust --

WHEAT. DISEASES. Rust.

Rust. Puccinia graminis.

Reddy, W.F. 1926. Mich. Quart. Bul. 8: 148-151.

Scab. See CEREALS. DISEASES. Fusarium.

Smut.

Bolley, H.L. 1891a. N. Dak. Bul. 1. 28 p.

Clinton, G.P. 1900. Ill. Bul. 57. p.289-360.

Foster, L. 1894. Mont. Bul. 2. p.17-32.

Freeman, E.M. 1911. Minn. Bul. 122. p.33-64. (With E.C. Stakman)

Henderson, L.F. 1898. Idaho Bul. 11. 34 p.

Jackson, H.S. (1913) Oreg. Crop Pest. Rpt. (1911/12) 1: 291-300.

Kellerman, W.A. (1890) Kans. Rpt. (1889) 2: 213-288, 356-360.

(With W.T. Swingle)

Melchers, L.E. 1916. Kans. Bul. 210. 38 p.

Nelson, A. 1895. Wyo. Bul. 21: 9-22.

Stakman, E.C. 1913. Minn. Bul. 133. 52 p.

Wilcox, B.M. 1912a. Nebr. Bul. 131.(Ext.Bul.7) 16 p.

See also BARLEY. DISEASES. Smut -- GRASSES AND FORAGE PLANTS.

DISEASES. Smut -- MAIZE. DISEASES. Smut -- OATS. DISEASES. Smut --

RICE. DISEASES. Smut -- RYE. DISEASES. Smut -- SMUTS -- WHEAT.

DISEASES. Smut.

CEREALS. DISEASES. (Cont.)

Smut. Control.

- Arthur, J.C. 1899. Ind. Bul. 77: 38-44.
Beattie, R.K. 1902. Wash. Bul. 54. 8 p.
Bolley, H.L. 1897. N.Dak. Bul. 27. p.107-162.
----- 1899. N.Dak. Bul. 37. p.365-379.
----- 1926. N.Dak. Circ. 28. 14 p.
Freeman, G.F. 1912. Ariz. Timely Hints 97. 4 p.
Goff, E.S. 1896. Wis. Bul. 50. 13 p.
Mackie, W.W. 1919. Calif. Circ. 214. 8 p.
Merrill, L.A. 1903. Utah Bul. 84. p.35-44. (With B.F. Eliason)
Moore, R.A. 1904a. Wis. Rpt. (1902/03) 20:284-292.
Sherbakoff, C.D. 1927. Tenn. Circ. 16. 2 p.
Swingle, D.B. 1917a. Mont. Circ. 70. 4 p.
See also OATS. DISEASES. SMUT. Control. -- WHEAT. DISEASES. SMUT. Control.

Stem rust. See CEREALS. DISEASES. Rust. *Puccinia graminis tritici*.
Take all. *Ophiobolus cariceti*.

Kirby, R.S. 1925. N.Y.(Cornell)Mem. 88. 45 p.

See also GRASSES AND FORAGE PLANTS. DISEASES. Take all -- WHEAT. DISEASES. Take all.

Tilletia foetans. See CEREALS. DISEASES. Smut -- WHEAT. DISEASES. Smut. Stinking smut.

Tilletia levis. See CEREALS. DISEASES. Smut -- WHEAT. DISEASES. Smut. Stinking smut.

Tilletia tritici. See CEREALS. DISEASES. Smut -- WHEAT. DISEASES. Smut. Stinking smut.

Ustilago avenae. See CEREALS. DISEASES. Smut -- OATS. DISEASES. Smut.

Ustilago crameri. See CEREALS. DISEASES. Smut -- MILLET. DISEASES. Smut.

Ustilago hordei. See BARLEY. DISEASES. Smut -- CEREALS. DISEASES. Smut.

Ustilago levis. See CEREALS. DISEASES. Smut -- OATS. DISEASES. Smut.

Ustilago nuda. See BARLEY. DISEASES. Smut -- CEREALS. DISEASES. Smut.

Ustilago tritici. See CEREALS. DISEASES. Smut -- WHEAT. DISEASES. Smut. Loose smut.

Ustilago zeae. See CEREALS. DISEASES. Smut -- MAIZE. DISEASES. Smut.

CEREALS. INJURIES.

Freezing and frost injury. See CEREALS. INJURIES. Weather injuries -- WHEAT. INJURIES. Weather injuries.

Seed injury from formaldehyde treatment. See CEREALS, DISEASES. Smut. Control -- OATS. DISEASES. Smut. Control -- WHEAT. DISEASES. Smut. Control -- WHEAT. SEED TREATMENT.

Weather injuries.

Harper, D.N. 1890. Minn. Bul. 11: 99-116.

Keffer, C.A. 1889. S.Dak. Bul. 10: 8 p.

Cereals. Resistant varieties. See CEREALS. DISEASE RESISTANCE AND RESISTANT VARIETIES.

CEREALS. SEED TREATMENT.

Atanasoff, D. 1920a. Jour. Agr. Res. 18: 379-390. (Wis.-17)
(With A.G. Johnson)

See also CEREALS. DISEASES. Smut. Control -- MAIZE. SEED TREATMENT -- OATS. DISEASES. Smut. Control -- OATS. SEED TREATMENT -- WHEAT. DISEASES. Smut. Control -- WHEAT. SEED TREATMENT.

Certified seed potatoes. See POTATO. LEGISLATION AND INSPECTION.

Charrinia diplodiella. See GRAPE. DISEASES. White rot.

Chemical problems in plant pathology. See under DISEASED PLANTS.

Physiological reactions.

Chemistry of diseased plants. See under DISEASED PLANTS. PHYSIOLOGICAL REACTIONS.

CHERRY. DISEASES.

Anderson, H.W. 1920. Ill. Circ. 241: 108-112.

Gardiner, V.R. 1927. Mich. Spec. Bul. 164. 70 p. (With R.H. Pettit, C.W. Bennett and W.C. Dutton)

Wilcox, E.M. 1905. Ala. Bul. 132: 103-109.

See also FRUIT AND FRUIT TREES. DISEASES -- PRUNUS. DISEASES. Control.

Beach, S.A. (1897) N.Y.(Geneva) Rpt. (1896) 15: 402-407.

Pammel, L.H. 1892b. Iowa Bul. 17: 419-443.

Bacterial. Phytomonas cerasi wraggi.

Sackett, W.G. 1926. Colo. Rpt. (1924/25) 38: 17-18.

Bacterial canker. See CHERRY. DISEASES. Gummosis.

Bacterial gummosis. See CHERRY. DISEASES. Gummosis.

Bacterium cerasi. See CHERRY. DISEASES. Gummosis.

Black knot. Flowrightia morbosa.

Beach, S.A. 1892a. N.Y.(Geneva) Bul. n.s. 40. p.25-34.

Halsted, B.D. 1891a. N.J. Bul. 78. 14 p.

Lodeman, E.G. 1895a. N.Y.(Cornell) Bul. 81. p.633-655.

Walton, R.C. 1918a. Ohio. Month. Bul. 3: 36-38.

Watts, R.L. 1891. Tenn. Bul. 4: 26-28.

Cylindrosporium padi. See CHERRY. DISEASES. Leaf spot.

Exoascus cerasi. See CHERRY. DISEASES. Witches broom.

Gummosis. Pseudomonas cerasus (Bacterium cerasi)

Barss, H.P. (1913) Oreg. Crop Pest Rpt. (1911/12) 1: 189-217.

----- (1915) Oreg. Crop Pest Rpt. (1913/14) 2: 224-240.

Rees, H.L. 1915d. Wash. (West.) Month. Bul. 3(2): 12-16.

Gummosis. See also GUMMOSIS.

Leaf blight. See CHERRY. DISEASES. Leaf spot.

Leaf scorch. See CHERRY. INJURIES. Weather injury.

Leaf spot. Cylindrosporium padi.

Barss, H.P. 1921. Oreg. Crop Pest Rpt. (1915/20) 3: 156-158.

Beach, S.A. 1896. N.Y.(Geneva) Bul. n.s. 98. p.1-17.

Coons, G.H. 1921a. Mich. Quart. Bul. 3: 93-96.

Dutton, W.C. 1925c. Mich. Spec. Bul. 147. 15 p. (With H.M. Wells)

Pammel, L.H. 1891a. Iowa Bul. 13: 55-66.

Stewart, F.C. 1901c. N.Y.(Geneva) Bul. 200: 85-89. (With H.J. Eustace)

Stewart, V.B. 1914. N.Y.(Cornell) Circ. 21. p.1-10.

CHERRY. DISEASES. (Cont.)

Leaf spot. Control.

Beach, S.A. 1894b. N.Y.(Geneva) Bul. n.s. 72. p.341-346.

----- 1897b. N.Y.(Geneva) Bul. 117. p.133-141.

Keitt, G.W. 1918. Wis. Bul. 286. 11 p.

Moore, W.D. (1923) N.J. Rpt. (1921/22) 43: 569-572.

Pammel, L.H. 1895c. Iowa Bul. 30: 289-301. (With G.W. Carver)

Phytopomonas cerasi wraggi. See CHERRY. DISEASES. Bacterial.

Plowrightia morbosa. See CHERRY. DISEASES. Black knot.

Pseudomonas cerasus. See CHERRY. DISEASES. Gummosis.

Shot hole fungus. See CHERRY. DISEASES. Leaf spot.

Witches broom. *Exoascus cerasi*.

Stewart, F.C. (1896) N.Y.(Geneva) Rpt. (1895) 14: 532-533.

Yellow leaf disease. See CHERRY. DISEASES. Leaf spot.

CHERRY. INJURIES.

Spray injury.

Gloyer, W.O. 1926. N.Y.(Geneva) Bul. 540. 18 p.

Weather injuries.

Roberts, R.H. 1922. Wis. Res. Bul. 52. 24 p.

Stewart, F.C. 1899a. N.Y.(Geneva) Bul. 162. p.165-178.

CHESTNUT. DISEASES.

Blight. *Endothia parasitica* (*E. gyrosa* var. *parasitica*, *Diaporthe parasitica*).

Anderson, P.J. 1914. N.Y.(Cornell) Bul. 347. p.529-620.

(With W.H. Rankin)

Clinton, G.P. (1909) Conn. Rpt. (1908) 32: 879-890.

----- (1913) Conn. Rpt. (1912) 36: 359-453.

Cook, M.T. 1916a. N.J. Bul. 291. 47 p. (With G.W. Wilson)

Giddings, N.J. 1912a. W.Va. Bul. 137. p.207-225.

Stoddard, E.M. 1913. Conn. Bul. 178. 19 p. (With A.E. Moss)

Stone, G.E. (1911) Mass. Rpt. (1910, pt. II) 23: 56-57.

Waldron, R.A. 1914. Penn. Rpt. 1912/13: 152-156.

Cytospora ceratophora.

Chester, F.D. (1903) Del. Rpt. (1901/02) 14: 44-45.

Diaporthe parasitica. See CHESTNUT. DISEASES. Blight.

Endothia gyrosa var. *parasitica*. See CHESTNUT. DISEASES. Blight.

Endothia parasitica. See CHESTNUT. DISEASES. Blight.

Chile pepper (*Capsicum annuum*) See under PEPPER.

China aster. See ASTER, CHINA.

CHLOROSIS.

Clinton, G.P. (1915) Conn. Rpt. (1914) 38: 357-424.

Hilgard, E.W. 1906. Calif. Circ. 27. 4 p.

See also CASSAVA. DISEASES. Chlorosis -- CITRUS. DISEASES. Mottled leaf -- MOSAIC DISEASES.

Choanephora cucurbitarum. See SQUASH. DISEASES. *Choanephora cucurbitarum*.

CHRYSANTHEMUM. DISEASES.

Halsted, B.D. (1895) N.J. Rpt. (1894) 15: 362-371.

See also ORNAMENTAL PLANTS. DISEASES.

Leaf blight. *Cylindrosporium chrysanthemi*. See CHRYSANTHEMUM. DISEASES.

CHRYSANTHEMUM. DISEASES. (Cont.)

Leaf spot. *Phyllosticta chrysanthemi*. See CHRYSANTHEMUM. DISEASES.

Leaf spot. *Septoria chrysanthemi*.

Beach, S.A. (1893) N.Y. (Geneva) Rpt. (1892) 11: 557-560.

Rust. *Puccinia chrysanthemi*.

Adams, J.F. 1919b. Penn. Rpt. 1916/17: 333-334.

Arthur, J.C. 1900. Ind. Bul. 85. p. 143-150.

Septoria chrysanthemi. See CHRYSANTHEMUM. DISEASES. Leaf spot.

Septoria chrysanthemi.

Yellows.

Nelson, R. 1925. Mich. Quart. Bul. 7: 157-160.

Chrysophlyctis endobiotica. See POTATO. DISEASES. Wart disease.

Cintractia sorghi-vulgaris (Synonym of *Sphacelotheca sorghi*). See

BROOM CORN. DISEASES. Smut -- SORGHUM. DISEASES. Smut.

CITRUS. DISEASES.

Coit, J.E. 1908. Ariz. Bul. 58: 323-326.

Fawcett, H.S. (1908-11) Fla. Rpt. 1906/07: xliii-xlvii;

1907/08: xliv-xlvii; 1908/09: xlvi-lix; 1909/10: xlv-lvii;

1910/11: lviii-lxvi.

----- 1911a. Fla. Bul. 107. 23 p.

----- 1915b. Calif. Bul. 262. p. 153-210.

Hume, H.H. 1900. Fla. Bul. 53. p. 145-173.

Rolfs, P.H. 1911. Fla. Bul. 108. p. 25-47. (With H.S.

Fawcett and B.F. Floyd)

Stevens, H.E. (1913-18) Fla. Rpt. 1911/12: xciii-xcvii;

1912/13: lxxii-lxxxvi; 1913/14: lvii-lxxiv; 1914/15: lxxvii-

xcii; 1915/16: 66R-79R; 1916/17: 66R-75R.

----- 1918b. Fla. Bul. 150. p. 13-110.

Webber, H.J. 1914. Calif. Rpt. 1913/14: 67-72.

See also LEMON - LIME - ORANGE - POMELO.

Alternaria. See LEMON. DISEASES. *Alternaria*.

Alternaria citri. See ORANGE. DISEASES. June drop.

Anthracnose. *Colletotrichum gloeosporioides*.

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

Stevens, H.E. 1918b. Fla. Bul. 150: 35-43.

See also POMELO. DISEASES. Anthracnose.

Bacterium citrerefaciens. See CITRUS. DISEASES. Blast and black pit.

Bark diseases. See CITRUS. DISEASES. Gummosis.

Black melanose. See CITRUS. DISEASES (Stevens, H.E. 1918b)

Black pit. See CITRUS. DISEASES. Blast and black pit.

Black rot. *Physalospora rhodina* (*Diplodia natalensis*)

Fawcett, H.S. (1912) Fla. Rpt. 1910/11: lxi-lxv.

Blast and black pit. *Bacterium citrerefaciens*.

Fawcett, H.S. 1923b. Calif. Tech. Paper 5. 36 p. (With

W.T. Horne and A.F. Camp)

Lee, H.A. 1917. Jour. Agr. Res. 9: 1-8. (Calif.-10)

CITRUS. DISEASES. (Cont.)

Blight. See CITRUS. DISEASES (Stevens; H.E. 1918b)

Blue mold. See LEMON. DISEASES. Blue mold -- ORANGE. DISEASES.

Blue mold.

Brown rot. Pythiacystis citrophthora.

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

See also CITRUS. DISEASES. Gummosis -- LEMON. DISEASES. Brown rot.

Canker. Pseudomonas citri.

Berger, E.W. 1914. Fla. Bul. 124. p.23-33.

Edgerton, C.W. 1914. La. Bul. 150. 10 p.

----- 1916b. La. Circ. 15. 11 p. (With J.B. Garrett)

Peltier, G.L. 1918a. Jour. Agr. Res. 14: 337-358. (Ala.-4 In cooperation with Bur. of plant indus.)

----- 1918b. Jour. Agr. Res. 14: 523-524. (Ala.-3. In cooperation with Bur. of plant indus.) (With D.C. Neal)

----- 1920a. Jour. Agr. Res. 19: 339-362. (Ala.-6. In cooperation with Bur. of plant indus.) (With W.J. Frederich)

----- 1920b. Jour. Agr. Res. 20: 447-506. (Ala.-7. In cooperation with Bur. of plant indus.)

----- 1924b. Jour. Agr. Res. 28: 227-239. (Ala.-9. In cooperation with Bur. of plant indus.) (With W.J. Frederich)

----- 1926b. Jour. Agr. Res. 32: 147-164. (Ala.-13. In cooperation with Bur. of plant indus.) (With W.J. Frederich)

----- 1926c. Jour. Agr. Res. 32: 335-345. (Ala.-12. In cooperation with Bur. of plant indus.) (With W.J. Frederich)

Stevens, H.E. 1914a. Fla. Bul. 122. p.111-118.

----- 1915. Fla. Bul. 128. 20 p.

Wolf, F.A. 1914b. Ala. Circ. 27. p.97-101. (With A.B. Massey)

----- 1916a. Ala. Bul. 190. p.91-100.

----- 1916c. Jour. Agr. Res. 6: 69-100. (Ala.-2)

Chlorosis. See CITRUS. DISEASES. Mottled leaf.

Cladosporium citri. See CITRUS. DISEASES. Scab.

Cladosporium herbarum var. citricolum. See CITRUS. DISEASES. Scaly bark.

Colletotrichum gloeosporioides. See CITRUS. DISEASES. Anthracnose -- CITRUS. DISEASES. Withertip.

Dieback.

Collison, S.E. 1919. Fla. Bul. 154: 43-46.

Floyd, B.F. (1909-14) Fla. Rpt. 1908/09: lxxiii-lxix; 1909/10: lxx-lxxviii; 1910/11: lxxii-lxxiii; 1911/12: cii-cxiv; 1912/13: xxvii-xliv; 1915/16: 30R-38R.

----- 1917b. Fla. Bul. 140. 31 p.

Diplodia natalensis. See CITRUS. DISEASES. Black rot.

Exanthema. See CITRUS. DISEASES. Die back.

Foot rot. See CITRUS. DISEASES. Gummosis.

Fruit spot.

Fawcett, H.S. 1916. Calif. Bul. 266. p.261-269.

CITRUS. DISEASES. (Cont.)

Gummosis.

Curtiss, A.H. 1888. Fla. Bul. 2: 27-42.

Fawcett, H.S. 1923a. Calif. Bul. 360. p.370-423.

----- 1923c. Jour. Agr. Res. 24: 191-236. (Calif.-33)

----- 1925. Calif. Bul. 395. 61 p.

Smith, R.E. 1908a. Calif. Bul. 200. p.235-272. (With
O. Butler)

See also CITRUS. DISEASES. Brown rot -- GUMMOSIS.

June drop. See ORANGE. DISEASES. June drop.

Leaf spots (Physiological)

Floyd, B.F. (1908-09) Fla. Rpt. 1907/08: xci-xciii; 1908/09:
lxi-lxxvi.

See also CITRUS. DISEASES (Stevens, H.E. 1918b)

Mal di gomma. See CITRUS. DISEASES. Gummosis.

Melanose. Phomopsis citri.

Burger, O.F. 1923. Fla. Bul. 167. 140 p. (With E.F. Debusk
and W.R. Briggs)

Floyd, B.F. (1912) Fla. Rpt. 1910/11: lxxiii-lxxxii.

----- 1912. Fla. Bul. 111. 16 p. (With H.E. Stevens)

Stevens, H.E. (1913-14) Fla. Rpt. 1911/12: xciii-xcvii; 1912/13:
lxxii-lxxxv.

----- 1918a. Fla. Bul. 145. p.101-116.

See also CITRUS. DISEASES. Stem end rot.

Meliola penzigi (M.camelliae) See CITRUS. DISEASES. Sooty mold.

Mottled leaf.

Floyd, B.F. 1917a. Fla. Bul. 137. p.161-179.

----- (1918) Fla. Rpt. 1916/17: 35R-46R.

Hilgard, E.W. 1906. Calif. Circ. 27. 4 p.

Kelley, W.P. 1920. Jour. Agr. Res. 20: 161-191. (Calif.-24)
(With A.B. Cummins)

Nail-head rust. See CITRUS. DISEASES. Scaly bark.

Phomopsis citri. See CITRUS. DISEASES. Melanose -- CITRUS.
DISEASES. Stem end rot.

Physalospora rhodina. See CITRUS. DISEASES. Black rot.

Physiological. See CITRUS. DISEASES. Die back -- CITRUS. DISEASES.

Fruit spot -- CITRUS. DISEASES. Leaf spots -- CITRUS. DISEASES.
Melanose.

Phytophthora terrestris. See CITRUS. DISEASES (Stevens, H.E. 1918b)

Pseudomonas citri. See CITRUS. DISEASES. Canker.

Pythiacystis citrophthora. See CITRUS. DISEASES. Brown rot --
CITRUS. DISEASES. Gummosis.

Scab. Sphaceloma fawcettii (Cladosporium citri)

Curtiss, A.H. 1888. Fla. Bul. 2:27-42.

Fawcett, H.S. 1912. Fla. Bul. 109. p.47-60.

----- 1921. Jour. Agr. Res. 21: 243-253. (Calif.-30)

Peltier, G.L. 1923. Jour. Agr. Res. 24: 955-959. (Ala.-8. In
cooperation with Bur. of plant indus.) (With W.J. Frederich)

CITRUS. DISEASES. (Cont.)

Scab. Sphaceloma fawcettii (Cladosporium citri) (Cont.)

Peltier, G.L. 1924c. Jour. Agr. Res. 28: 241-254. (Ala.-10.
In cooperation with Bur. of plant indus.) (With W.J.
Frederich)

----- 1926b. Jour. Agr. Res. 32: 147-164. (Ala.-13.
In cooperation with Bur. of plant indus.) (With W.J.
Frederich)

Scaly bark. Cladosporium herbarum var. citricolum.

Fawcett, H.S. (1907-11) Fla. Rpt. 1906/07: xliii-xlvii;
1907/08: lxiv-lxv; 1908/09: xlvi-lvii; 1909/10: li-liiii.

----- 1909a. Fla. Bul. 98. p.73-80.

----- 1909b. Fla. Bul. 106. 41 p.

----- 1915b. Calif. Bul. 262: 162-164.

----- 1923a. Calif. Bul. 360: 408-416.

Sclerotinia libertiana. See LEMON. DISEASES. Storage and trans-
portation rots.

Sooty mold. Meliola penzigi (M. camelliae)

Gossard, H.A. 1903. Fla. Bul. 67: 619-620.

Sphaceloma fawcettii. See CITRUS. DISEASES. Scab.

Sphaeropsis tumefaciens. See CITRUS. DISEASES (Stevens, H.E. 1918b)

Stem-end rot. Phomopsis citri.

Fawcett, H.S. 1911a. Fla. Bul. 107. 23 p.

----- (1910-12) Fla. Rpt. 1909/10: xlv-xlix; 1910/11:
lviii-lxi; 1911/12: lxiv-lxxvii.

Floyd, B.F. 1912. Fla. Bul. 111. 16 p. (With H.E. Stevens)

Storage and transportation rots: See LEMON. DISEASES. Storage and
transportation rots.

Verrucosis. See CITRUS. DISEASES. Scab.

Withertip. Colletotrichum gloeosporioides.

Stevens, H.E. 1918b. Fla. Bul. 150: 35-43.

See also CITRUS. DISEASES. Anthracnose.

Yellow spotting. See CITRUS. DISEASES. Leaf spots.

CITRUS. INJURIES.

Freezing and frost injury. See CITRUS. INJURIES. Weather injuries.

Lightning injury.

Stevens, H.E. (1917) Fla. Rpt. 1915/16: 74R-78R.

----- 1918b. Fla. Bul. 150: 103-106.

Limestone injury. See CITRUS. DISEASES. Mottled leaf.

Weather injuries.

Webber, H.J. 1919. Calif. Bul. 304: 245-298. (With C.S.

Milliken, A.R. Tylor and W.W. Bonus)

Winberg, O.F.E. 1918. Ala. Bul. 199. p.1-26. (With G.C.
Starcher and C.L. Isbell)

Cladosporium carpophilum. See CUCUMBER. DISEASES. Scab. Cladosporium
cucumerinum -- PEACH. DISEASES. Scab.

Cladosporium citri (Synonym of Sphaceloma fawcettii) See AVOCADO.
DISEASES. (Stevens, H.E. 1922) -- CITRUS. DISEASES. Scab.

Cladosporium cucumerinum. See CUCUMBER. DISEASES. Scab.

- Cladosporium fulvum. See TOMATO. DISEASES. Leaf mold.
Cladosporium herbarum. See CEREALS. DISEASES. Cladosporium herbarum.
Cladosporium herbarum var. citricolum. See CITRUS. DISEASES. Scaly bark.
Claviceps paspali. See PASPALUM DILATATUM. DISEASES. Claviceps paspali.
Claviceps purpurea. See ERGOT.
Cleistothecopsis circinans. See ONION. DISEASES. Volutella circinans.
CLEMATIS. DISEASES.
See also ORNAMENTAL PLANTS. DISEASES.
Ascochyta clematidina.
Gloyer, W.O. 1915. N.Y.(Geneva) Tech. Bul. 44. 14 p. (Also in Jour. Agr. Res. 4: 331-342. N.Y.(Geneva)-2)
Leaf spot. See CLEMATIS. DISEASES. Ascochyta clematidina.
Phoma sp.
Arthur, J.C. (1885) N.Y.(Geneva) Rpt. (1884) 3:383-385.
Stem rot. See CLEMATIS. DISEASES. Ascochyta clematidina.
Climate. Effect on plant diseases. See PLANT DISEASES. CLIMATIC FACTORS.
Climbing plants. Diseases. See IVY. DISEASES -- ORNAMENTAL PLANTS. DISEASES.
Clitocybe parasitica. See APPLE. DISEASES. Root rot -- FRUIT AND FRUIT TREES. DISEASES. Root rot. Clitocybe parasitica.
Clitocybe tabescens. See GRAPE. DISEASES. Root rot.
CLOVER. DISEASE RESISTANCE AND RESISTANT VARIETIES.
Bain, S.M. 1906. Tenn. Bul. 75(v.19,no.1). p.1-10. (With S.H. Essary)
CLOVER. DISEASES.
Halsted, B.D. (1898) N.J. Rpt. (1897) 18: 314-319.
Jackson, H.S. (1913) Oreg. Crop Pest Rpt. (1911/12)1: 300-308.
Stewart, F.C. 1919. N.Y.(Geneva) Bul. 463: 173-176.
Van Pelt, W. 1918. Ohio Month. Bul. 3: 239-243.
See also GRASSES AND FORAGE PLANTS. DISEASES -- LEGUMINOUS PLANTS. DISEASES.
Anthracnose. Colletotrichum trifolii.
Wolfe, T.K. 1926. Va. Bul. 252: 4-13. (With M.S. Kipps)
Anthracnose. Gloeosporium caulivorum.
Fulton, H.R. 1913a. Penn. Rpt. 1911/12: 249.
Bacterial leaf spot. Bacterium trifoliorum.
Jones, L.R. 1923. Jour. Agr. Res. 25: 471-490. (Wis.-24. In cooperation with Bur. of plant indus.) (With M.M. Williamson, F.A. Wolf and L. McCulloch)
Black mould. Phyllachora trifolii. See CLOVER. DISEASES (Halsted, B.D. (1898))
Colletotrichum trifolii. See CLOVER. DISEASES. Anthracnose.
Colletotrichum trifolii.
Crown gall. See CLOVER. DISEASES (Jackson, H.S. (1913))
Erysiphe polygoni. See CLOVER. DISEASES. Powdery mildew.
Fusarium. See CLOVER. DISEASES. Root rot (Young, W.J. 1923b)
Gloeosporium caulivorum. See CLOVER. DISEASES. Anthracnose.
Gloeosporium caulivorum.

CLOVER. DISEASES. (Cont.)

- Leaf spot. *Bacterium trifoliorum*. See CLOVER. DISEASES. Bacterial leaf spot.
- Leaf spot. *Pseudopeziza trifolii*. See CLOVER. DISEASES (Stewart, F.C. 1919)
- Phyllachora trifolii*. See CLOVER. DISEASES (Halsted, B.D. (1898))
- Physiological.
Fergus, E.N. 1926. Ky. Bul. 269. p.139-210. (With W.D. Valleau)
- Polythrincium trifolii*. See CLOVER. DISEASES. (Halsted, B.D. (1898))
- Powdery mildew. *Erysiphe polygona*.
Young, W.J. 1923b. Ohio Month. Bul. 8: 157-160.
- Pseudopeziza trifolii*. See CLOVER. DISEASES (Stewart, F.C. 1919)
- Rhizoctonia.
Stevens, F.L. (1912) N.C. Rpt.(1910/11) 34: 70-73. (With G.W. Wilson)
- Root rot.
Fergus, E.N. 1926. Ky. Bul. 269. p.139-210. (With W.D. Valleau)
Selby, A.D. 1921. Ohio Month. Bul. 6: 90-92. (With R.C. Thomas)
Young, W.J. 1923b. Ohio Month Bul. 8: 157-160.
See also CLOVER. DISEASES. *Sclerotinia trifoliorum*.
- Rot. See CLOVER. DISEASES. *Sclerotinia trifoliorum*.
- Rust. *Uromyces trifolii*.
Howell, J.K. 1890. N.Y.(Cornell) Bul. 24. p.127-139.
Pammel, L.H. 1891a. Iowa Bul. 13: 31-71.
- Sclerotinia trifoliorum*.
Chester, F.D. (1891) Del. Rpt. (1890) 3: 84-89.
Gilbert, A.H. 1915. Ky. Circ. 8. p.45-60. (With D.S. Myer)
Wolf, F.A. 1919. N.C. Tech. Bul. 16. 18 p. (With R.O. Cromwell)
Young, W.J. 1923b. Ohio Month. Bul. 8: 157-160.
- Stem rot. See CLOVER. DISEASES. *Sclerotinia trifoliorum*.
- Uromyces trifolii*. See CLOVER. DISEASES. Rust.
- Clover sickness. See CLOVER. DISEASES. *Sclerotinia trifoliorum*.
- CLUB ROOT. PLASMIDIOPHORA BRASSICAE.
Chupp, C. 1917. N.Y.(Cornell) Bul. 387. p.417-452.
Cunningham, G.C. 1914b. Vt. Bul. 185. p.65-96.
Gloyer, W.O. 1924. N.Y.(Geneva) Bul. 513. 38 p. (With H. Glasgow)
Halsted, B.D. 1893. N.J. Bul. 98. 16 p.
----- (1903). N.J. Rpt. (1902) 23: 398-399.
Hulst, G.D. 1888. N.J. Bul. 50: 14-20.
Lutman, B.F. 1913. Vt. Bul. 175. 27 p.
See also CABBAGE. DISEASES. Club root -- TURNIP. DISEASES. Club root.
- Cold storage decay. See STORAGE AND TRANSPORTATION ROTS.
- COLLARDS. DISEASES.
Higgins, B.B. 1917a. Ga. Rpt. (1916) 29: 21-27.
See also TRUCK CROPS. DISEASES.

COLLARDS. DISEASES. (Cont.)

- Black mold. *Alternaria brassicae*. See COLLARDS. DISEASES.
- Drop. *Sclerotinia libertiana*. See COLLARDS. DISEASES.
- Colletotrichum antirrhini*. See SNAPDRAGON. DISEASES. Anthracnose -- TOAD-FLAX. DISEASES. Anthracnose.
- Colletotrichum brassicae*. See TURNIP. DISEASES. Leaf spot.
- Colletotrichum cereale* (n.sp.) See CEREALS. DISEASES. Anthracnose.
- Colletotrichum erumpens*. See RHUBARB. DISEASES.
- Colletotrichum falcatum*. See SUGAR CANE. DISEASES. Root disease.
- COLLETOTRICHUM GLOEOSPORIOIDES.
- Burger, O.F. 1921. Jour. Agr. Res. 20: 723-736. (Calif.-28)
See also CITRUS. DISEASES. ANTHRACNOSE -- LEMON. DISEASES -- POMELO. DISEASES. Anthracnose.
- Colletotrichum glycines*. See SOY BEAN. DISEASES. Anthracnose.
- COLLETOTRICHUM GOSSYPII.
- DeLoach, R.J.H. 1909. Ga. Bul. 85. 14 p.
See also COTTON. DISEASES. Anthracnose. *Glomerella gossypii*.
- Colletotrichum higginsianum* (n.sp.) See TURNIP. DISEASES. Leaf spot.
- COLLETOTRICHUM LAGENARIUM.
- Halsted, B.D. (1894) N.J. Rpt. (1893) 14: 347-352.
See also WATERMELON. DISEASES. Anthracnose.
- COLLETOTRICHUM LINDEMUTHIANUM.
- Leach, J.G. 1923. Minn. Tech. Bul. 14. 41 p.
See also ANTHRACNOSE DISEASES -- BEAN. DISEASES. Anthracnose.
- Colletotrichum linicolum* (G. lini) See FLAX. DISEASES. Anthracnose.
- Colletotrichum omnivorum*. See ORNAMENTAL PLANTS. DISEASES. (Halsted, B.D. 1892)
- Colletotrichum phomoides*. See TOMATO. DISEASES. Anthracnose.
- Colletotrichum spinaciae*. See SPINACH. DISEASES.
- Colletotrichum trifolii*. See ALFALFA. DISEASES. Anthracnose -- CLOVER. DISEASES. Anthracnose. *Colletotrichum trifolii*.
- Collybia dryophila*. See DEWBERRY. DISEASES. *Collybia*.
- Color of plants. Diseases causing changes. See ALBINISM -- CHLOROSIS.
- CONIFERS. DISEASES.
- See also PINE. DISEASES. Damping off -- SPRUCE. DISEASES -- TREES. DISEASES.
- Alternaria*. See CONIFERS. DISEASES. DAMPING OFF (Hansen, T.S. 1923)
- Botrytis*. See CONIFERS. DISEASES. Damping off (Hansen, T.S. 1923)
- Damping off.
- Gifford, C.M. 1911. Vt. Bul. 157. p.141-171.
- Hansen, T.S. 1923. Minn. Tech. Bul. 15. 35 p. (With W.H. Kenety, G.H. Wiggin, and E.C. Stakman)
- Jones, L.R. (1908) Vt. Rpt. (1906/07) 20: 342-347.
- May, C. 1927b. Ohio Bi-month. Bul. 12: 45-47. (With H.C. Young)
- See also DAMPING OFF -- PINE. DISEASES. Damping off.
- Fusarium*. See CONIFERS. DISEASES. Damping off.
- Gymnosporangium*. See CONIFERS. DISEASES. Rust.
- Peridermium*. See CONIFERS. DISEASES. Rust.
- Pythium*. See CONIFERS. DISEASES. Damping off (Hansen, T.S. 1923)
- Red rot. *Trametes vini*.
- Abbott, F.H. 1915. Vt. Bul. 191. 20 p.
- Rhizoctonia*. See CONIFERS. DISEASES. Damping off (Hansen, T.S. 1923)

CONIFERS. DISEASES. (Cont.)

Rust.

Adams, J.F. 1919a. Penn. Bul. 160: 1-30.

Thametes pini. See CONIFERS. DISEASES. Red rot.

Coniothyrium diplodiella

See

GRAPE. DISEASES. White rot.

Coniothyrium pirinum. See APPLE. DISEASES. Leaf spots (Crabill, C.H. (1913))

Control of plant diseases. See PLANT DISEASES. CONTROL.

Copper carbonate. See under FUNGICIDES. Copper.

Copper fungicides. See FUNGICIDES. Copper -- FUNGICIDES. Bordeaux mixture -- SPRAY INJURY. Copper -- SPRAY RESIDUES.

Copper sulphate. See under FUNGICIDES. Copper.

Corn. See MAIZE.

Corticium laetum. See FIG. DISEASES. (Edgerton, C.W. 1911a)

Corticium salmonicolor. See FIG. DISEASES. (Matz, J. 1918b)

CORTICIUM STEVENSII.

Weber, G.F. 1927. Fla. Bul. 186. p.143-162.

Corticium vagum. See BEAN. DISEASES. *Corticium vagum* -- CABBAGE.

DISEASES. Wire stem -- DAMPING OFF -- PEA. DISEASES. Root rot.

Corticium vagum -- POTATO. DISEASES. *Rhizoctonia* -- RHIZOCTONIA DISEASES -- SUGAR BEET. DISEASES. Dry rot.

Corticium vagum var. *solani*. See POTATO. DISEASES. *Rhizoctonia* (Morse, W.J. 1914c and Paddock, W. 1904)

Coryneum beyerinckii. See APRICOT. DISEASES. (Smith, R.E. 1909) -- PEACH. DISEASES. California blight.

Coryneum foliicolum. See APPLE. DISEASES. *Coryneum foliicolum*.

COTTON. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Cauthen, E.F. 1916. Ala. Bul. 189. p.67-88.

Duggar, J.F. 1911. Ala. Bul. 153: 15-16, 27-38. (With E.F. Cauthen)

COTTON. DISEASES.

Atkinson, G.F. 1892b. Ala. Bul. 41. 65 p.

Duggar, J.F. 1911. Ala. Bul. 153: 15-16, 27-38. (With E.F. Cauthen)

Earle, F.S. 1900a. Ala. Bul. 107: 289-330.

Edgerton, C.W. 1912. La. Bul. 137. 113 p.

Elliott, J.A. 1921. Ark. Bul. 173. 26 p.

Hibbard, R.P. 1910. Miss. Bul. 140. 27 p.

Angular leaf spot. *Bacterium malvacearum*.

Brown, J.G. 1922c. Ariz. Timely Hints 142. 8 p.

Faulwetter, R.C. 1917a. Jour. Agr. Res. 8: 457-475. (S.C.-1)

----- 1919. S.C. Bul. 198. 29 p.

Rolfs, F.M. 1915b. S.C. Bul. 184. 30 p.

Anthracnose. *Glomerella gossypii* (*Colletotrichum gossypii*)

Barre, H.W. (1909-16) S.C. Rpt. (1908/09) 22: 89-118; (1909/10)

23: 23-25; (1910/11) 24: 23-43; (1911/12) 25: 20-23; (1912/13)

26+ 15-17; (1913/14) 27: 20-21; (1914/15) 28: 21-23.

Barre, H.W. 1912. S.C. Bul. 164. 22 p.

COTTON. DISEASES. (Cont.)

Anthracnose. Glomerella gossypii (Colletotrichum gossypii) (Cont.)

DeLoach, R.J.H. 1909. Ga. Bul. 85. 14 p.
Edgerton, C.W. 1916a. La. Bul. 155. 24 p. (With C.C.
Moreland)

Lehman, S.G. 1925. N.C. Tech. Bul. 26. 71 p.

Ludwig, C.A. 1925. S.C. Bul. 222. 52 p.

Rolfs, F.M. 1916. Okla. Circ. 40. 7 p.

Ascochyta gossypii.

Elliott, J.A. 1922b. Ark. Bul. 178. 18 p.

Bacillus gossypina. See COTTON. DISEASES. Boll rot.

Bacterial boll rot. Bacterium malvacearum. See COTTON. DISEASES.

Angular leaf spot.

Black arm. See COTTON. DISEASES. Angular leaf spot.

Black root. See COTTON. DISEASES. Wilt.

Black rust. See COTTON. DISEASES. Physiological.

Boll rot. Bacillus gossypina.

Stedman, J.M. 1894. Ala. Bul. 55. 12 p.

See also COTTON. DISEASES (Edgerton, C.W. 1912) -- COTTON.

DISEASES. Angular leaf spot -- COTTON, DISEASES. Anthracnose --

COTTON. DISEASES. Diplodia gossypina.

Colletotrichum gossypii. See COTTON. DISEASES. Anthracnose.

Damping off.

Atkinson, G.F. 1892b. Ala. Bul. 41: 30-39.

Diplodia gossypina.

Edgerton, C.W. 1912. La. Bul. 137: 59-69.

Frenching. See COTTON. DISEASES. Wilt.

Fusarium vasinfectum. See COTTON. DISEASES. Wilt.

Glomerella gossypii. See COTTON. DISEASES. Anthracnose.

Leaf blight. See COTTON. DISEASES (Atkinson, G.F. 1892b) --

COTTON. DISEASES. Physiological (Atkinson, G.F. 1892a)

Macrosporium nigricantium. See COTTON. DISEASES. Physiological
(Earle, F.S. 1898)

Mosaic. See COTTON. DISEASES. Physiological.

Neocosmospora vasinfecta. See COTTON. DISEASES. Wilt.

Ozonium auricomum. See COTTON. DISEASES. Root rot. (Pammel, L.H.
1888, 1890)

Ozonium omnivorum. See COTTON. DISEASES. Root rot.

Phoma blight. See COTTON. DISEASES (Elliott, J.A. 1921)

Phymatotrichum omnivorum. See COTTON. DISEASES. Root rot.
(Taubenhaus, J.J. 1923)

Physiological.

Atkinson, G.F. 1891. Ala. Bul. 27. 16 p.

----- 1892a. Ala. Bul. 36. 32 p.

Earle, F.S. 1898. Ala. Bul. 99. p.281-309.

Red leaf blight. See COTTON. DISEASES. Physiological (Atkinson,
G.F. 1892a)

Rhizoctonia. See COTTON. DISEASES (Earle, F.S. 1900a)

COTTON. DISEASES. (Cont.)

Root rot. *Ozonium omnivorum* (*O. auricomum* and *Phymatotrichum omnivorum*.)

Pammel, L.H. 1888. Tex. Bul. 4. 18 p.

----- 1890. Tex. Bul. 7. 30 p.

Taubenhaus, J.J. 1923. Tex. Bul. 307. 98 p. (With D.T. Killough)

Rust (Physiological) See COTTON. DISEASES. Physiological.

Seedling rot. See COTTON. DISEASES (Atkinson, G.F. 1892b)

Sore-shin. See COTTON. DISEASES (Atkinson, G.F. 1892b)

Texas root rot. See COTTON. DISEASES. Root rot.

Wilt. *Fusarium vasinfectum* (*Neocosmospora vasinfecta*)

Cauthen, E.F. 1916. Ala. Bul. 189. p.67-88.

Elliott, J.A. 1923a. Jour. Agr. Res. 23: 387-395. (Ark.-2)

Fulton, H.R. 1907. La. Bul. 96. 15 p.

Rosen, H.R. 1926c. Jour. Agr. Res. 33: 1143-1162. (Ark.-8)

Yellow leaf blight. See COTTON. DISEASES. Physiological.

Cotton. Resistant varieties. See COTTON. DISEASE RESISTANCE AND RESISTANT VARIETIES.

COTTON. SEED TREATMENT.

Lehman, S.G. 1925. N.C. Tech. Bul. 26. 71 p.

Cottonwood (*Populus*) See POPLAR.

COWPEA. DISEASES.

See also TRUCK CROPS. DISEASES.

Alternaria atrans.

Gibson, F. 1922. Ariz. Tech. Bul. 2. p.41-46.

Bacterium viridifaciens.

Gardner, M.W. 1926. Jour. Agr. Res. 31: 841-863. (Ind.-15)
(With J.B. Kendrick)

Fusarium vasinfectum. See COWPEA. DISEASES. Wilt.

Leaf spot. *Cercospora cruenta*.

Jackson, H.S. 1908. Del. Bul. 83: 22-24.

Leaf spot. *Phyllosticta phaseolina*.

Smith, C.O. 1905. Del. Bul. 70. 16 p.

Mildew. *Microsphaera euphorbiae*.

Fawcett, H.S. (1909) Fla. Rpt. 1908/09: 1x.

Neocosmospora vasinfecta. See COWPEA. DISEASES. Wilt.

Phyllosticta phaseolina. See COWPEA. DISEASES. Leaf spot.

Phyllosticta phaseolina.

Rust. *Uromyces trifolii*.

Pammel, L.H. 1902. Iowa Bul. 61: 139-142.

Sunburn. See COWPEA. DISEASES. *Alternaria atrans*.

Uromyces trifolii. See COWPEA. DISEASES. Rust.

Wilt. *Fusarium vasinfectum*.

Higgins, B.B. 1911. N.C. Rpt. (1908-09) 32: 100-116.

CRANBERRY. DISEASES.

Driggers, B.F. 1927. N.J. Bul. 450. 16 p.

Franklin, H.J. 1914. Mass. Bul. 150: 39-46. (With F.W. Morse)

----- 1915-19. Mass. Bul. 160: 94-100; Bul. 168: 1-31;
Bul. 180: 186-193; Bul. 192: 105-111.

See also SMALL FRUITS. DISEASES.

CRANBERRY. DISEASES. (Cont.)

False blossom.

Spaeth, C.P. 1927. Jour. Agr. Res. 34: 35-47. (N.H.-6)
(With H.R. Kraybill)

Gall. Synchytrium vaccinii.

Halsted, B.D. 1889. N.J. Bul. 64. 40 p.
----- (1891) N.J. Rpt. (1890) 11: 332-339.

Guignardia vaccinii.

Cook, G.H. 1880a. N.J. Bul. 1. p.3-5.
Halsted, B.D. 1889. N.J. Bul. 64: 16-40.
----- (1891) N.J. Rpt. (1890) 11: 332-339.

Rot. See CRANBERRY. DISEASES. Guignardia vaccinii.

Scald. See CRANBERRY. DISEASES. Guignardia vaccinii.

Storage and transportation rots.

Rudolph, B.A. 1920. Mass. Bul. 198: 88-92. (With H.J.
Franklin)

Shear, C.L. 1917. Mass. Bul. 180: 235-239. (With N.E. Stevens
and B.A. Rudolph)

Synchytrium vaccinii. See CRANBERRY. DISEASES. Gall. Synchytrium
vaccinii.

CRANBERRY. WATER INJURY.

Wakabayashi, S. 1925. N.J. Bul. 420. 26 p.

CRONARTIUM RIBICOLA

Stewart, F.C. 1914a. N.Y. (Geneva) Bul. 374. p.39-53.
(With W.H. Rankin)

See also CURRANT. DISEASES. Blister rust -- RIBES, DISEASES.
Rust -- WHITE PINE. DISEASES. Blister rust.

CROP LOSSES DUE TO PLANT DISEASES.

Taubenhaus, J.J. 1920b. Tex. Bul. 261. 34 p.

CROWN GALL. BACTERIUM TUMEFACIENS.

Barss, H.P. (1913) Oreg. Crop Pest Rpt. (1911/12) 1: 218-226.

Butz, G.C. 1902. Penn. Rpt. 1901/02: 405-414.

Card, F.W. 1895. Nebr. Bul. 39: 131-132.

Cook, M.T. 1914a. N.J. Circ. 34. 14 p. (With G.W. Martin)

Garcia, F. 1913. N.Mex. Bul. 85. 28 p. (With J.W. Rigney)

Lawrence, W.H. 1907. Wash. Bul. 83: 9-18.

Ness, H. 1917. Tex. Bul. 211. 21 p.

Norton, J.B.S. 1904. Md. Circ. Bul. 56. 8 p.

Paddock, W. 1903b. Colo. Bul. 86. 7 p.

Riker, A.J. 1923a. Jour. Agr. Res. 25: 119-132. (Wis.-22)

----- 1923b. Jour. Agr. Res. 26: 425-436. (Wis.-25)

----- 1926. Jour. Agr. Res. 32: 83-96. (Wis.-32)

Smith, C.O. 1912b. Calif. Bul. 235. p.531-557.

Swingle, D.B. 1918a. Mont. Bul. 121. p.121-139. (With
H.E. Morris)

Thornber, J.J. 1916. Ariz. Timely Hints 118. 6 p.

Toumey, J.W. 1894. Ariz. Bul. 12. 11 p.

----- 1900a. Ariz. Bul. 33. 63 p.

----- 1900b. Ariz. Bul. 34: 76-79.

CROWN GALL. BACTERIUM TUMEFACIENS. (Cont.)

See also ABNORMAL GROWTHS; and subhead Crown gall under APPLE
GRAPE -- PEACH -- PLUM -- PRUNUS -- RASPBERRY.

Crown knot. See CROWN GALL.

Crown rot. See FRUIT AND FRUIT TREES: DISEASES. Crown rot.

CRUCIFERS. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Cunningham, G.C. 1914b. Vt. Bul. 185. p.65-96.

CRUCIFERS. DISEASES.

Clayton, E.E. 1926. N.Y.(Geneva) Bul. 537. 29 p.

See also CABBAGE -- CAULIFLOWER -- COLLARDS -- RADISH -- TRUCK
CROPS -- TURNIP.

Club root. Plasmodiophora brassicae.

Halsted, B.D. 1893. N.J. Bul. 98. 16 p.

See also CLUB ROOT.

Cryptosporëlla anomala. See FILBERT. DISEASES. Cryptosporëlla anomala.

Cryptosporëlla viticola. See GRAPE. DISEASES. Necrosis.

CUCUMBER. DISEASES.

Humphrey, J.E. (1893) Mass. Rpt. (1892) 10: 212-230.

Selby, A.D. 1897b. Ohio Bul. 89: 99-116.

----- 1899b. Ohio Bul. 105: 217-229.

Stone, G.E. 1903a. Mass. (Hatch) Bul. 87: 29-40.

Weber, G.F. 1925. Fla. Bul. 177. p.29-71.

See also CUCURBITS. DISEASES -- TRUCK CROPS. DISEASES.

Control.

Jarvis, C.D. 1912. Conn. (Storrs) Bul. 72. p.89-123.

Orton, W.A. 1905. S.C. Bul. 116. 36 p. (With W.D. Garrison)

Sirrine, F.A. 1898. N.Y.(Geneva) Bul. 156. p.375-396. (With
F.C. Stewart)

Stewart, F.C. 1897c. N.Y.(Geneva) Bul. 138. p.625-644.

Angular leaf spot. Bacterium lachrymans.

Burger, O.F. 1914. Fla. Bul. 121. p.95-109.

Anthracnose. Colletotrichum lagenarium. See CUCUMBER. DISEASES.

(Weber, G.F. 1925)

Bacterial wilt. Bacillus tracheiphilus. See CUCUMBER. DISEASES.

(Weber, G.F. 1925)

Bacterium lachrymans. See CUCUMBER. DISEASES. Angular leaf spot.

Black rot. Mycosphaerella citrullina. See CUCUMBER. DISEASES.

(Weber, G.F. 1925)

Cladosporium carpophilum. See CUCUMBER. DISEASES. Scab.

Downy mildew. Pseudoperonospora cubensis (Peronosplasmopara cubensis
and Plasmopara cubensis)

Bennett, E.R. 1904. Conn. (Storrs) Bul. 30: 17-23.

Clinton, G.P. (1905) Conn. Rpt. (1904) 28: 329-362.

Hume, H.H. (1900) Fla. Rpt. 1899/1900: 30-34.

Humphrey, J.E. (1891) Mass. Rpt. (1890) 8:210-212.

Stewart, V.C. 1897. N.Y.(Geneva) Bul. 119. p.153-182.

Stone, G.E. 1915a. Mass. Circ. 51. 2 p.

CUCUMBER. DISEASES. (Cont.)

Erysiphe cichoracearum. See CUCUMBER. DISEASES. Powdery mildew.
Fusarium.

Stone, G.E. (1911) Mass. Rpt. (1910, pt. II) 23: 62-65.

Leaf spot. Stemphylium cucurbitacearum.

Osner, G.A. 1918. Jour. Agr. Res. 13: 295-306. (Ind.-3. In cooperation with Bur. of plant indus.)

Macrosporium cucumerinum. See CUCUMBER. DISEASES. (Weber, G.F. 1925)

Mosaic. See CUCUMBER. DISEASES. (Weber, G.F. 1925)

Mycosphaerella citrullina. See CUCUMBER. DISEASES (Weber, G.F. 1925)

Peronosporaspora cubensis. See CUCUMBER. DISEASES. Downy mildew.
Physiological.

Haskins, H.D. 1913. Mass. Rpt. (1912, pt. II) 25: 71-79.

Plasmopara cubensis. See CUCUMBER. DISEASES. Downy mildew.

Powdery mildew. Erysiphe cichoracearum.

Humphrey, J.E. (1892-93) Mass. Rpt. (1891) 9: 222-226; (1892) 10: 225-226.

Stewart, F.C. 1899b. N.Y. (Geneva) Bul. 164: 213-214.

See also POWDERY MILDEWS.

Pseudoperonospora cubensis. See CUCUMBER. DISEASES. Downy mildew.

Rot. See CUCUMBER. DISEASES. Angular leaf spot.

Scab. Cladosporium cucumerinum.

Arthur, J.C. 1889a. Ind. Bul. 19. 10 p.

Southern blight. *Sclerotium rolfsii*. See CUCUMBER. DISEASES (Weber, G.F. 1925)

Stem rot. *Sclerotinia sclerotiorum*. See CUCUMBER. DISEASES (Weber, G.F. 1925)

Stemphylium cucurbitacearum. See CUCUMBER. DISEASES. Leaf spot.

CUCURBITS. DISEASES.

Garman, H. 1901a. Ky. Bul. 91: 50-56.

Martin, W. H. 1917a. N.J. Circ. 68. 11 p.

Melhus, I.E. 1925. Iowa Circ. 99. 16 p. (With O.H. Elmer)

Sheldon, J.L. 1904b. W.Va. Bul. 94. p.119-138.

See also CUCUMBER - MELON - SQUASH - TRUCK CROPS - WATERMELON.

Fusarium wilt. See WATERMELON. DISEASES. Vine wilt.

Mycosphaerella citrullina.

Smith, C.O. 1905. Del. Bul. 70: 3-10.

See also MELON. DISEASES. *Mycosphaerella* wilt.

Wilt. See CUCURBITS. DISEASES. *Mycosphaerella citrullina* -- MELON. DISEASES. Bacterial wilt -- MELON. DISEASES.

Mycosphaerella wilt.

Cultures and culture media. See PLANT PATHOLOGY. Cultures and culture media.-- PLANT PATHOLOGY. Laboratory methods and appliances.

CURRENT. DISEASES.

Barss, H.P. 1923a. Oreg. Circ. 42: 8-12.

Stewart, F.C. 1919. N.Y. (Geneva) Bul. 463: 176-184.

See also RIBES. DISEASES -- SMALL FRUITS. DISEASES.

CURRENT. DISEASES. (Cont.)

Anthracoſe. Pseudopeziza ribis (Gloeosporium ribis)

Dudley, W.R. 1889b. N.Y. (Cornell) Bul. 15: 196-198.

Dutton, W.C. 1920a. Mich. Spec. Bul. 102: 37-46.

Stewart, F.C. 1901b. N.Y.(Geneva) Bul. 199: 63-80. (With H.J. Eustace)

Blight. See CURRENT. DISEASES. Cane blight.

Blister rust. Cronartium ribicola.

Stewart, F.C. 1906b. N.Y.(Geneva) Tech. Bul. 2. p.61-74.

Stone, G.E. (1913) Mass. Rpt. (1912,pt.I) 25: 41-44.

Cane blight. Botryosphaeria ribis.

Chester, F.D. (1903) Del. Rpt. (1901/02) 14: 42-44.

Grossenbacher, J.G. 1911. N.Y.(Geneva) Tech. Bul. 18. p.113-190. (With B.M. Duggar)

Stewart, F.C. 1913a. N.Y.(Geneva) Bul. 357. p.1-10.

Canker. Nectria cinnabarina.

Durand, E.J. 1897. N.Y.(Cornell) Bul. 125. p.19-38.

Cercospora angulata. See CURRENT. DISEASES. (Stewart, F.C. 1919)

Cronartium ribicola. See CURRENT. DISEASES. Blister rust.

Fomes root rot. Fomes ribis. See CURRENT. DISEASES. (Stewart, F.C. 1919)

Gloeosporium ribis. See CURRENT. DISEASES. Anthracnose.

Leaf spot. Septoria ribis.

Pammel, L.H. 1894. Iowa Bul. 24: 987-988.

----- 1895c. Iowa Bul. 30: 289-301. (With G.W. Carver)

Necrosis. See CURRENT. DISEASES. Cane blight.

Nectria cinnabarina. See CURRENT. DISEASES. Canker.

Powdery mildew. Sphaerotheca morsuvae. See CURRENT. DISEASES (Stewart, F.C. 1919)

Pseudopeziza ribis. See CURRENT. DISEASES. Anthracnose.

CYCLAMEN. DISEASES.

Halsted, B. D. (1894) N.J. Rpt. (1893) 14: 396-399.

Cycloconium oleaginum. See OLIVE. DISEASES. Cycloconium oleaginum.

Cylindrocladium parvum (n.sp.) See ROSE. DISEASES. Canker.

Cylindrocladium scoparium. See ROSE. DISEASES. Canker.

Cylindrosporium chrysanthemi. See CHRYSANTHEMUM. DISEASES. Leaf blight.

Cylindrosporium padi. See CHERRY. DISEASES. Leaf spot -- PLUM. DISEASES. Leaf spot.

Cylindrosporium pomi. See APPLE. DISEASES. Fruit spot.

Cystopus blitii (Synonym of Albugo bliti) See BEET. DISEASES.

Cystopus candidus (Synonym of Albugo candida) See RADISH. DISEASES. White rust.

Cytospora sp. See APPLE. DISEASES. Die back.

Cytospora batata. See SWEET POTATO. DISEASES. Pox.

Cytospora ceratophora. See CHESTNUT. DISEASES. Cytospora ceratophora.

Cytospora chrysosperma. See POPLAR. DISEASES. Canker.-

DAMPING OFF.

Atkinson, G.F. 1895. N.Y. (Cornell) Bul. 94. p.231-272.

Halsted, B.D. (1892) N.J.Rpt. (1891) 12: 290-292.

DAMPING OFF. (Cont.)

- Johnson, J. 1914b. Wis. Res. Bul. 31. p.29-61.
Rees, H.L. 1915c. Wash. (West.) Month. Bul. 3(1): 15-16.
Sherbakoff, C.D. (1917-18) Fla. Rpt. 1915/16: 80R-87R;
1916/17: 76R-78R.

See also subhead DAMPING OFF under CABBAGE -- CONIFERS --
EGGPLANT -- PINE -- SUGARBEET.

DATE PALM. DISEASES.

Fruit rot.

- Brown, J.G. (1921) Ariz. Rpt. (1920/21) 32: 606-609.

Graphiola phoenicis.

- Stone, G.E. (1897) Mass. Rpt. (1896) 9: 67-68. (With R.E.
Smith)

Leaf spot. See DATE PALM. DISEASES. *Graphiola phoenicis*.

Degeneration diseases. See MOSAIC DISEASES -- POTATO. DISEASES.

Degeneration -- VIRUS DISEASES.

Delphinium. See LARKSPUR.

Dendrophagus globosus. See CROWN GALL (Toumey, J.W. 1900a)

Dendrophoma obscurans. See STRAWBERRY. DISEASES. *Dendrophoma* leaf
blight.

DEWBERRY. DISEASES.

See also SMALL FRUITS. DISEASES.

Anthracnose. *Plectodiscella veneta*.

- Dutton, W.C. 1925b. Mich. Spec. Bul. 144. 13 p.

- Wolf, F.A. 1926b. N.C. Bul. 248. 16 p. (With B.O. Dodge)

Collybia dryophila.

- Poole, R.F. 1927. Jour. Agr. Res. 35: 453-464. (N.C.-24)

Double blossom. *Fusarium rubi*.

- Cook, M.T. 1911. Del. Bul. 93. 12 p.

- Reimer, F.C. 1912. N.C. Rpt. (1910/11) 34: 41-50. (With L.R.
Detjen)

Plectodiscella veneta. See DEWBERRY. DISEASES. Anthracnose.

Root rot. See DEWBERRY. DISEASES. *Collybia dryophila*.

DEWBERRY. WEATHER INJURIES.

- Chester, F.D. 1902. Del. Bul. 57: 12-13.

Diaporthe batatatis. See SWEET POTATO. DISEASES. Dry rot.

Diaporthe parasitica. See CHESTNUT. DISEASES. Blight.

Diplocarpon rosae. See ROSE. DISEASES. Black spot.

Diplodia gossypina. See COTTON. DISEASES. *Diplodia gossypina*.

Diplodia natalensis. See CITRUS. DISEASES. Black rot.

DIPLODIA ZEAЕ.

- Heald, F.D. 1909a. Nebr. Rpt. (1908) 22: 1-18. (With E.M.
Wilcox and V. W. Pool)

See also MAIZE. DISEASES. Dry rot. *Diplodia zeae*.

DISEASE CARRIERS.

- Johnson, J. 1925b. Wis. Res. Bul. 63. 12 p.

See also INSECTS AS CARRIERS OF PLANT DISEASES.

Disease resistance. See PARASITISM AND DISEASE RESISTANCE; and
subhead DISEASE RESISTANCE AND RESISTANT VARIETIES under
various hosts.

DISEASED PLANTS.

Chemical reactions. See DISEASED PLANTS. Physiological reactions.
Histology.

Dixon, E.L. 1926. Penn. Bul. 203. 22 p.

Physiological reactions.

Bennett, J.P. 1924. Calif. Tech. Paper 14. 35 p. (With E.T. Bartholomew)

Cook, M.T. 1911-12. Del. Bul. 91. 77 p.; Bul. 97. 53 p.
(With J.J. Taubenhau)

Coons, G.H. 1925c. Jour. Agr. Res. 31: 287-300. (Mich.-15)
(With L.J. Klotz)

Culpepper, C.W. 1916. Jour. Agr. Res. 7: 17-40. (Ala.-3)
(With A.C. Foster and J.S. Caldwell)

Dungan, G.H. 1926. Ill. Bul. 284. p.253-281.

Kelley, W.P. 1920. Jour. Agr. Res. 20: 161-191. (Calif.-24)
(With A.B. Cummins)

Reed, H.S. (1913) Va. Rpt. 1910-11/1911-12: 51-77.

----- (1913) Va. Rpt. 1910-11/1911-12: 82-94. (With
J.S. Cooley)

See also PLANT DISEASES. Immunity phenomena.

Disinfection of soils. See SOILS DISINFECTION.

Dissemination of plant diseases. See PLANT DISEASES. Dissemination.

Dissemination of spores. See FUNGUS SPORES, DISSEMINATION.

Dòthiorella gregaria. See WALNUT DISEASES. Melaxuma.

Double blossom. See BLACKBERRY. DISEASES. Double blossom --
DEWBERRY. DISEASES. Double blossom.

DOWNY MILDEWS.

Halsted, B.D. (1892-93) N.J. Rpt. (1891) 12: 247-249; (1892)
13: 276-278.

See also CUCUMBER. DISEASES. Downy mildew -- GRAPE. DISEASES.

Downy mildew -- LETTUCE. DISEASES. Downy mildew.

Dracaena. Diseases. See ORNAMENTAL PLANTS. DISEASES (Halsted, B.D.
(1894))

Dry heat for seed disinfection. See SEED TREATMENT.

Dry spraying. See DUSTING.

DUSTING.

Bird, R.M. 1903. Mo. Bul. 60. 13 p.

Britton, W.E. 1922. Conn. Bul. 235. p.209-226. (With M.P.
Zappe and E.M. Stoddard)

Close, C.P. 1905. Del. Bul. 69: 3-7.

----- 1906a. Del. Bul. 72: 23.

----- 1906b. Del. Bul. 76. 19 p.

Heald, F.D. 1922. Wash. Bul. 168. 15 p.; Bul. 171. 28 p.
(With L.J. Smith)

Hoffman, A.H. 1925. Calif. Bul. 391. 16 p. (With H.L.
Belton)

Mackie, W.W. 1923. Calif. Bul. 364. p.533-572. (With
F.N. Briggs)

Melcher's, L.E. 1924b. Kans. Circ. 107. 14 p. (With H.B.
Walker)

DUSTING. (Cont.)

Smith, R.E. 1923. Calif. Bul. 357. p.497-505. (With J.P. Martin)

Streeter, L.R. 1927. N.Y.(Geneva) Tech. Bul. 125. 12 p.

Thomas, R.C. 1925. Ohio Bul. 390. p.405-423.

See also PLANT DISEASES. Control.

EGGPLANT. DISEASES.

Halsted, B.D. (1892) N.J. Rpt. (1891) 12: 277-283.

See also TRUCK CROPS. DISEASES.

Anthraxnose. *Colletotrichum atramentarium* (*Gloeosporium melengonea*)

See EGGPLANT. DISEASES.

Ascochyta lycopersici. See EGGPLANT. DISEASES. *Phomopsis vexans*.

Blight. See EGGPLANT. DISEASES. *Phomopsis vexans*.

Damping off. *Pythium debaryanum*.

Halsted, B.D. (1893) N.J. Rpt. (1892) 13: 286-287.

Gloeosporium melengonea. See EGGPLANT. DISEASES.

Nectria ipomoeae. See EGGPLANT. DISEASES.

Phoma solani. See EGGPLANT. DISEASES. *Phomopsis vexans*.

Phomopsis vexans.

Edgerton, C.W. 1921a. La. Bul. 178. 44 p. (With C.C. Moreland)

Smith, C.O. 1905. Del. Bul. 70: 10-15.

Phyllosticta hortorum. See EGGPLANT. DISEASES. *Phomopsis vexans*.

Pythium debaryanum. See EGGPLANT. DISEASES. Damping off.

Stem blight. See EGGPLANT. DISEASES. *Phomopsis vexans*.

Stem rot. *Nectria ipomoeae*. See EGGPLANT. DISEASES.

Wilt. *Verticillium alboatrum*.

Haensler, C.M. (1922) N.J. Rpt. (1920/21) 42: 469-472.

Electrical injuries to trees. See SHADE TREES. DISEASES AND INJURIES.

Elvingia megaloma. See POPLAR. DISEASES. *Fomes megaloma*.

ELM. DISEASES.

Garman, H. 1899c. Ky. Bul. 84. p.51-75.

Stewart, F.C. 1919. N.Y.(Geneva) Bul. 463: 184-186.

See also SHADE TREES. DISEASES AND INJURIES -- TREES. DISEASES.

Anthraxnose. *Mycosphaerella ulmi*. See ELM. DISEASES (Stewart, F.C. 1919)

Endomyces mali. See APPLE. DISEASES. *Endomyces mali*.

Endothia gyrosa var. *parasitica*. See CHESTNUT. DISEASES. Blight.

ENDOTHIA PARASITICA.

Clinton, G.P. (1913) Conn. Rpt. (1912) 36: 359-453.

Cook, M.T. 1916a. N.J. Bul. 291. 47 p. (With G.W. Wilson)

See also CHESTNUT. DISEASES. Blight.

Entomosporium maculatum. See PEAR. DISEASES. Leaf blight -- QUINCE.

DISEASES. Leaf blight.

Environment, Influence on plant diseases. See PLANT DISEASES. Environmental conditions -- SOIL ENVIRONMENT. EFFECT ON PLANT DISEASES.

Enzymes. See DISEASED PLANTS. Physiological reactions.

ERGOT. CLAVICEPS PURPUREA.

Gillette, C.P. 1888. Iowa Bul. 3: 63-69. (With A.A. Crozier)

Weniger, W. 1924. N.Dak. Bul. 176. 23 p.

Williams, T.A. 1893a. S.Dak. Bul. 33: 38-41.

Erysiphe cichoracearum. See CUCUMBER. DISEASES. Powdery mildew.

Erysiphe communis. See PEA. DISEASES. Powdery mildew.

Erysiphe graminis. See HORDEUM JUBATUM. DISEASES. Rust -- OATS.

DISEASES. Powdery mildew -- POWDERY MILDEWS -- WHEAT. DISEASES.
Powdery mildew.

Erysiphe polygoni. See CLOVER. DISEASES. Powdery mildew -- PEA.

DISEASES. Powdery mildew.

Exoascus. See PLUM. DISEASES. Pockets -- PRUNUS. DISEASES. Exoascus.

Exoascus cerasi. See CHERRY. DISEASES. Witches broom -- WITCHES BROOM.

Exoascus deformans. See PEACH. DISEASES. Leaf curl. -- PLUM. DISEASES.
Pockets.

Exoascus pruni. See PLUM. DISEASES. Pockets.

EXOBASIDIUM PECKII.

Stewart, F.C. (1896) N.Y. (Geneva) Rpt. (1895) 14: 534-535.

Fabraea maculata. See PEAR. DISEASES. Leaf blight -- QUINCE. DISEASES.
Leaf blight.

False blossom. See CRANBERRY. DISEASES. False blossom.

FIG. DISEASES.

Edgerton, C.W. 1911a. La. Bul. 126. 20 p.

Matz, J. 1918b. Fla. Bul. 149. 11 p.

Anthraxnose. Glomerella cingulata. See FIG. DISEASES.

Aspergillus niger. See FIG. DISEASES. Smut.

Canker. Tubercularia fici. See FIG. DISEASES (Edgerton, C.W. 1911a)

Corticium laetum. See FIG. DISEASES (Edgerton, C.W. 1911a)

Dieback. See FIG. DISEASES.

Endosepsis. See FIG. DISEASES. Internal rot.

Fusarium moniliforme var. fici. See FIG. DISEASES. Internal rot.

Glomerella cingulata. See FIG. DISEASES.

Internal rot. Fusarium moniliforme var. fici.

Caldis, P.D. 1927. Calif. Hilgardia 2: 287-328.

Leaf blight. See FIG. DISEASES. Rhizoctonia microsclerotia.

Limb blight. Corticium laetum. See FIG. DISEASES (Edgerton, C.W.
1911a)

Physopella fici. See FIG. DISEASES. Rust.

Rhizoctonia microsclerotia.

Matz, J. (1917) Fla. Rpt. 1915/16: 108R-112R.

Rhizopus nigricans. See FIG. DISEASES (Edgerton, C.W. 1911a)

Rust. Physopella fici (Uredo fici)

Lanham, W.B. 1927. Tex. Circ. 47. 8 p. (With R.H. Wyche and
R.H. Stansel)

Sclerotium blight. Sclerotium rolfsii. See FIG. DISEASES (Matz, J.
1918b)

Smut. Aspergillus niger.

Phillips, E.H. 1925. Calif. Bul. 387. 38 p. (With E.H.
Smith and R.E. Smith)

Soft rot. Rhizopus nigricans. See FIG. DISEASES (Edgerton, C.W.
1911a)

FIG. DISEASES. (Cont.)

Tubercularia fici. See FIG. DISEASES (Edgerton, C.W. 1911a)

Uredo fici. See FIG. DISEASES. Rust.

FILBERT. DISEASES.

Bacterial.

Barss, H.P. (1915) Oreg. Crop Pest Rpt. (1913/14) 2:213-223.

Cryptosporella anomala.

Halsted, B.D. (1893) N.J. Rpt. (1892) 13: 287-289.

Fire blight. Bacillus amylovorus. See subhead FIRE BLIGHT under
APPLE -- APRICOT -- FRUIT AND FRUIT TREES -- PEAR -- PLUM.

FLAX. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Barker, H.D. 1923. Minn. Tech. Bul. 20. 42 p.

Bolley, H.L. 1924. N.Dak. Bul. 174: 29-31.

Nelson, C.I. 1926. N.Dak. Bul. 202. 30 p. (With M. Dworak)

Tisdale, W.H. 1917. Jour. Agr. Res. 11: 573-606. (Wis.-8)

FLAX. DISEASES.

Bolley, H.L. 1906b. N.Dak. Bul. 71: 203-209.

Lugger, O. 1890. Minn. Bul. 13: 20-25.

Weniger, W. 1923. N.Dak. Bul. 166: 43-50.

Anthracnose. Colletotrichum linicolum (C. lini)

Bolley, H.L. 1910. N.Dak. Bul. 87: 144-145.

Fusarium lini. See FLAX. DISEASES. Wilt.

Rust. Melampsora lini.

Henry, A.W. 1926. Minn. Tech. Bul. 36. 20 p.

Wilt. Fusarium lini.

Barker, H.D. 1923. Minn. Tech. Bul. 20. 42 p.

Bolley, H.L. 1901. N.Dak. Bul. 50. p.25-58.

----- 1924. N.Dak. Bul. 174: 29-31.

Nelson, C.I. 1926. N.Dak. Bul. 202. 30 p. (With M. Dworak)

Stoa, T.^E. 1924a. N.Dak. Bul. 178: 11-19. (With A.C. Dillman)

----- 1924b. N.Dak. Circ. 23. 8 p.

----- 1925. N.Dak. Circ. 26: 7.

Tisdale, W.H. 1917. Jour. Agr. Res. 11: 573-606. (Wis.-8)

Flax. Resistant varieties. See FLAX. DISEASE RESISTANCE AND RESIS-
TANT VARIETIES.

Flax sick soil. See FLAX. DISEASES. Wilt.

Fomes fomentarius. See BEECH. DISEASES.

Fomes igniarius. See BEECH. DISEASES.

Fomes megaloma. See POPLAR. DISEASES. Fomes megaloma.

Fomes ribis. See CURRANT. DISEASES. (Stewart, F.C. 1919)

Forage plants. Diseases. See GRASSES AND FORAGE PLANTS. DISEASES.

Forest pathology. See CONIFERS. DISEASES -- SHADE TREES. DISEASES
AND INJURIES -- TREE SURGERY -- TREES. DISEASES.

Formaldehyde. See FUNGICIDES -- Formaldehyde.

Formaldehyde method of seed treatment. See SEED TREATMENT.

Formalin. See FUNGICIDES. Formaldehyde -- SEED TREATMENT.

Foxtail. Diseases. Holcus bacterial spot. See PSEUDOMONAS HOLCI.

FREEZING AND FROST INJURY.

- Brown, W.S. 1921. Oreg. Crop Pest Rpt. (1915/20) 3: 9-14.
Chandler, W.H. 1913. Mo. Res. Bul. 8. p.139-309.
Rosa, J.T. 1921. Mo. Res. Bul. 48. 97 p.
Stone, G.E. (1906) Mass. Rpt. (1905) 18: 119-124. (With
N.F. Monahan)

See also subhead WEATHER INJURIES under various hosts.

Frost. Resistance of plants. See FREEZING AND FROST INJURY.

Fruit. Keeping qualities. See APPLE. KEEPING QUALITIES.

FRUIT AND FRUIT TREES. DISEASES.

- Anderson, H.W. 1920b. Ill. Circ. 241. 155 p.
Bailey, L.H. 1890b. N.Y.(Cornell) Bul. 19. p.45-58.
Bain, S.M. 1897. Tenn. Rpt. (1896)9: 16-19.
Beach, S.A. 1899. N.Y.(Geneva) Bul. 170. p.381-445. (Rev.
1903) (With V.H. Lowe and F.C. Stewart)
Cook, M.T. 1917b. N.J. Circ. 80. 27 p.
----- 1917c. N.J. Circ. 81. 19 p.
Corbett, L.C. 1900. W.Va. Bul. 66. p.197-235.
Gardner, V.R. 1927. Mich. Spec. Bul. 164. 70 p. (With R.H.
Pettit, C.W. Bennett and W.C. Dutton)
Halsted, B.D. (1893) N.J. Rpt. (1892) 13: 322-333.
----- (1895) N.J. Rpt. (1894) 15: 320-334.
Herrick, G.W. 1906. Miss. Bul. 96. 16 p.
Hunn, C.E. 1891. N.Y.(Geneva) Bul. n.s. 35. p.603-627.
(With G.W. Churchill)
Jackson, H.S. (1913) Oreg. Crop Pest Rpt. (1911/12) 1: 233-259.
Longyear, B.O. 1904. Mich. Spec. Bul. 25. 68 p.
McCarthy, G. 1893. N.C. Bul. 92: 65-144.
Mackintosh, R.S. 1903. Ala. Bul. 124. p.73-104.
Maynard, S.T. 1893. Mass. (Hatch) Bul. 21. 23 p.
Pammel, L.H. 1893c. Iowa Bul. 23: 912-924.
Reed, H.S. (1913) Va. Rpt. 1910-11/1911-12: 51-77.
Selby, A.D. 1897a. Ohio Bul. 79. p.97-141.
Stevens, F.L. 1903a. N.C. Bul. 183: 64-82.
----- 1903b. N.C. Bul. 186: 23-46.
Stewart, F.C. 1899c. N.Y.(Geneva) Bul. 167. p.275-308. (Rev.
1903) (With F.H. Blodgett)
----- 1900c. N.Y.(Geneva) Bul. 191. p.291-331.
Swingle, D.B. 1914a. Mont. Circ. 37. p.263-329.
Whipple, O.B. 1907. Colo. Bul. 118: 5-12.
Wilcox, E.M. 1905. Ala. Bul. 132. p.79-142.
Williams, T.A. 1893b. S.Dak. Bul. 35. p.79-87.
See also APPLE -- APRICOT -- CHERRY -- CITRUS -- FIG -- LEMON --
NURSERY STOCK -- OLIVE -- ORANGE -- PEACH -- PEAR -- PERSIMMON --
PLUM -- QUINCE -- SMALL FRUITS.

Control.

- Alderman, W.H. 1913. W. Va. Circ. 7. 48 p. (With N.J.
Giddings and W.E. Rumsey)
Alwood, W.B. 1893. Va. Bul. 24. p.1-40.
Ballou, F.H. 1910b. Ohio Bul. 224. p.117-150.

FRUIT AND FRUIT TREES: DISEASES.

Control.

- Ballou, F.H. 1924. Ohio Month. Bul. 9: 35-43. (With I.P. Lewis)
Beach, S.A. 1895b. N.Y.(Geneva) Bul. n.s. 86. p.67-120.
(With W. Paddock)
----- 1901. N.Y.(Geneva) Bul. 196. p.399-460. (With
L.H. Bailey)
----- 1912. Iowa Bul. 127. p.45-86.
Bonns, W.W. 1911. Maine Bul. 189. p.31-80.
----- 1912. Maine Bul. 198. 32 p.
Britton, W.E. 1914. Conn. Bul. 184. 12 p. (With G.P. Clinton)
Cooley, R.A. 1912. Mont. Circ. 17. p.121-151. (With D.B.
Swingle)
Dutton, W.C. 1920a. Mich. Spec. Bul. 102. 50 p.
----- 1922. Mich. Spec. Bul. 115. 54 p. (With S. John-
ston)
Ellenwood, C.W. 1924. Ohio Month. Bul. 9: 57-63.
Giddings, N.J. 1918a. W.Va. Bul. 167. 18 p.
Green, W.J. 1891. Ohio Bul. (ser.2) [35] (v.4,no.9): 193-219.
Halligan, C.P. 1922. Mich. Spec. Bul. 114. p.405-429. (With
R.H. Pettit, and G.H. Coons)
Halsted, B.D. 1892a. N.J. Bul. 86: 11-20.
Henderson, L.F. 1904. Idaho Bul. 39. p.255-272.
Herrick, G.W. 1907. Miss. Bul. 102. 14 p.
Howard, W.L. 1915. Mo. Bul. 124. p.187-235.
Jones, L.R. 1895. Vt. Bul. 44. p.70-102.
Kinney, L.F. 1895. R.I. Bul. 31. p.1-17.
Lewis, D.E. 1915. Kans. Bul. 203. 44 p.
Lodeman, E.G. 1893. N.Y.(Cornell) Bul. 60. p.255-296.
----- 1895b. N.Y.(Cornell) Bul. 86. p.45-76.
Martin, G.W. 1915a. N.J. Bot. (1913/14) 35: 489-499.
Melander, A.L. 1916. Wash. Pop. Bul. 100. 63 p. (With F.D.
Heald)
Munson, W.M. 1906. Maine Bul. 128. p.65-73.
Pammel, L.H. 1891a. Iowa Bul. 13: 21-71.
Peairs, L.W. 1924-27. W.Va. Circ. 56. 20 p. Sup. 4 p. 1926;
4 p. 1927. (With E.C. Sherwood)
Pickett, W.F. 1926. Kans. Circ. 125. 15 p. (With L.C.
Williams)
Ruggles, A.G. 1911. Minn. Bul. 121. p.1-52. (With E.C.
Stakman)
Sandsten, E.P. 1904. Wis. Bul. 110. p.17-21.
Selby, A.D. 1899c. Ohio Bul. 111. p.93-142.
Stakman, E.C. 1916a. Minn. Bul. 153. 65 p. (With A.G.
Tolaas)
----- 1922a. Minn. Bul. 199. 73 p. (With J.G. Leach
and J.L. Seal)
Weed, C.M. 1889b. Ohio Bul.(Ser.2) 14 (v.2, no.7): 186-189.
Whitten, J.C. 1895. Mo. Bul. 31. 19 p.
Woodbury, C.G. 1910. Ind. Circ. 21. 20 p.
Young, H.C. 1926. Ohio Bul. 393. 26 p. (With J.S. Houser
and F.H. Ballou)

FRUIT AND FRUIT TREES. DISEASES. (Cont.)

Armillaria mellea. See FRUIT AND FRUIT TREES. DISEASES. Root rot.
Armillaria mellea.

Bacillus amylovorus. See FRUIT AND FRUIT TREES. DISEASES. Fire blight.

Bacterium pruni.

Rolfs, F.M. 1915a. N.Y.(Cornell) Mem. 8. p.373-436.

See also PEACH. DISEASES. Bacterium pruni.

Black knot. Plowrightia morbosa.

Beach, S.A. (1894) N.Y.(Geneva) Rpt. (1893) 12: 686-688.

See also subhead BLACK KNOT under CHERRY -- PEACH -- PLUM.

Black rot. Sphaeropsis malorum (Physalospora cydoniae)

Halsted, B.D. (1894) N.J. Rpt. (1893) 14: 366-367.

Hesler, L.R. 1916. N.Y.(Cornell) Bul. 379. p.49-148.

See also APPLE. DISEASES. Black rot.

Blight. See FRUIT AND FRUIT TREES. DISEASES. Fire blight.

Brown bark spot.

Swingle, D.B. 1921a. Mont. Bul. 146. 22 p. (With H.E. Morris)

Brown pocket heart rot. See FRUIT AND FRUIT TREES. Heart rot.

Brown rot. Sclerotinia (Monilia)

Barss, H.P. 1923c. Oreg. Circ. 53. 18 p.

Bioletti, F.T. (1902) Calif. Rpt. 1898/1901: 330-333.

Cordley, A.B. 1899. Oreg. Bul. 57. 15 p.

Ezekiel, W.N. 1924-26. Md. Bul. 271. p.87-142; Bul. 284. 22 p.

Norton, J.B.S. 1923. Md. Bul. 256. 32 p. (With W.N. Ezekiel and R.A. Jehle)

Quaintance, A.L. 1900. Ga. Bul. 50. p.233-269.

See also subhead BROWN ROT under APPLE -- APRICOT -- PEACH -- PLUM

Canker. Nectria galligena.

Zeller, S.M. 1926a. Oreg. Bul. 222. 52 p.

See also FRUIT AND FRUIT TREES. DISEASES. Black rot.

Clitocybe parasitica. See FRUIT AND FRUIT TREES. DISEASES. Root rot. Clitocybe parasitica.

Collar blight. See FRUIT AND FRUIT TREES. DISEASES. Fire blight.

Crown gall. See CROWN GALL; and this subhead under APPLE -- PEACH -- PLUM -- PRUNUS.

Crown rot.

Grossenbacher, J.G. 1909b. N.Y.(Geneva) Tech. Bul. 12. p.367-411.

----- 1912. N.Y.(Geneva) Tech. Bul. 23. 59 p.

European canker. See FRUIT AND FRUIT TREES. DISEASES. Canker.

Fire blight. Bacillus amylovorus.

Crandall, C.S. 1898a. Colo. Bul. 41. 21 p.

Dixon, E.L. 1926. Penn. Bul. 203. 22 p.

Gossard, H.A. 1917b. Ohio Month. Bul. 2: 357-364. (With R.C. Walton)

Hall, J.G. 1913. Wash. Pop. Bul. 56. 8 p.

FRUIT AND FRUIT TREES. DISEASES. (Cont.)

Fire blight. Bacillus amylovorus. (Cont.)

- Heald, F.D. 1915a. Wash. Bul. 125. 7 p.
Mack, W.B. 1910. Nev. Bul. 66: 62-64.
Nixon, E.L. 1926. Penn. Bul. 203. 22 p.
Orton, C.R. 1915b. Penn. Bul. 136. 23 p. (With J.F. Adams)
Pickett, B.S. 1914. Ill. Circ. 172, 10 p.
Stedman, J.M. 1893. Ala. Bul. 50. 11 p.
Stewart, V.B. 1913a. N.Y.(Cornell) Bul. 329. p.313-372.
----- 1913b. N.Y.(Cornell) Circ. 20. p.85-94.
Sturgis, W.C. (1895) Conn. Rpt. (1894) 18: 113-117.
Swingle, D.B. 1914b. Mont. Circ. 39. p.13-16.
Whetzel, H.H. 1909. N.Y.(Cornell) Bul. 272. p.29-52. (With
V.B. Stewart)

See also subhead FIRE BLIGHT under APPLE -- APRICOT -- PEAR --
PLUM.

Gummosis. See GUMMOSIS; also this subhead under CHERRY -- PEACH.

Gymnosporangium blasdaleanum. See FRUIT AND FRUIT TREES. DISEASES.
Rust.

Heart rot. Trametes subrosea.

- Zeller, S.M. 1926d. Jour. Agr. Res. 33: 687-693. (Oreg.-13)

June drop.

- Detjen, L.R. 1925. Del. Rpt. 1923/24 (Bul. 139): 19-21.
----- 1926. Del. Bul. 143. 36 p.

See also ORANGE. DISEASES. June drop -- PEACH. DISEASES. June
drop.

Leaf cast.

- Cook, M.T. (1921) N.J. Rpt. (1919/20) 41: 570-573.

Leaf spot. See FRUIT AND FRUIT TREES. DISEASES. Black rot.

Micrococcus amylovorus. See FRUIT AND FRUIT TREES. DISEASES. Fire
blight (Sturgis, W.C. (1895))

Monilia fructigena. See FRUIT AND FRUIT TREES. DISEASES. Brown rot.

Monilia oregonensis. See FRUIT AND FRUIT TREES. DISEASES. Brown rot
(Barss, H.P. 1923c)

Mushroom root rot. See FRUIT AND FRUIT TREES. DISEASES. Root rot.
Armillaria mellea)

Nectria galligena. See FRUIT AND FRUIT TREES. DISEASES. Canker.

Physiological.

- Barss, H.P. 1921. Oreg. Crop Pest Rpt. (1915/20) 3: 159-166.

- Burke, E. 1924. Mont. Rpt. (1922/23) 30: 27.

See also under FRUIT AND FRUIT TREES. DISEASES the subheads
CROWN ROT -- JUNE DROP -- LEAF CAST -- SUN SCALD.

Plowrightia morbosa. See FRUIT AND FRUIT TREES. DISEASES. Black
knot.

Root rot. Armillaria mellea.

- Barss, H.P. (1913) Oreg. Crop Pest Rpt. (1911/12) 1: 226-233.

- Frank, A. 1922. Wash. (West.) Bi-month. Bul. 9: 83-84.

- Hendrickson, A.H. 1925. Calif. Circ. 289. 13 p.

- Piper, C.V. 1903. Wash. Bul. 59. 14 p. (With S.W. Fletcher)

Root rot. Clitocybe parasitica.

- Wilcox, E.M. 1901b. Okla. Bul. 49. 32 p.

FRUIT AND FRUIT TREES. DISEASES. (Cont.)

Rust. Gymnosporangium blasdaleanum.

Jackson, H.S. (1915) Oreg. Crop Pest Rpt. (1913/14) 2: 204-212.

See also APPLE. DISEASES. Rust -- CEDAR RUST -- QUINCE. DISEASES. Rust.

Sclerotinia americana. See FRUIT AND FRUIT TREES. DISEASES. Brown rot (Ezekiel, W.N. 1924-26; Norton, J.B.S. 1923)

Sclerotinia cinerea. See FRUIT AND FRUIT TREES. DISEASES. Brown rot (Barss, H.F. 1923c)

Sclerotinia fructigena. See FRUIT AND FRUIT TREES. DISEASES. Brown rot.

Sooty blotch. See APPLE. DISEASES. Sooty blotch.

Sphaeropsis malorum. See FRUIT AND FRUIT TREES. DISEASES. Black rot.

Storage and transportation rots. See subhead STORAGE AND TRANSPORTATION ROTS under APPLE -- PEACH -- PEAR.

Sun scald.

Mix, A.J. 1916b. N.Y.(Cornell) Bul. 382. p.233-284.

Trametes subrosea. See FRUIT AND FRUIT TREES. DISEASES. Heart rot.

Treatment. See FRUIT AND FRUIT TREES. DISEASES. Control; also subhead CONTROL under various fruits.

FRUIT AND FRUIT TREES. INJURIES.

Freezing and frost injury. See FRUIT AND FRUIT TREES. INJURIES. Weather injuries.

Moss and lichen injury.

Smart, W.A. 1921b. Oreg. Crop Pest & Hort. Rpt. 3 (1915/20); 172-173.

Spray injury.

Mogendorff, N. 1925. N.J. Bul. 419. 47 p.

See also SPRAY INJURY; and this subhead under APPLE -- CHERRY -- PEACH -- PEAR -- PLUM.

Weather injuries.

Bailey, L.H. 1896. N.Y.(Cornell) Bul. 117: 385-392.

Ballantyne, A.B. 1913. Utah Bul. 128. p.243-261.

Beach, S.A. (1897) N.Y.(Geneva) Rpt. (1896) 15: 408-439.
(With C.P. Close)

Bradford, F.C. 1922b. Mo. Circ. 107. 7 p.

Card, F.W. 1895. Nebr. Bul. 39. p.125-139.

Craig, J. 1900. Iowa Bul. 44. p.177-213.

Eustace, H.J. 1905c. N.Y.(Geneva) Bul. 269. p.323-343.

Garcia, F. 1914. N.Mex. Bul. 89. 52 p. (With J.W. Rigney)

Goff, E.S. 1899. Wis. Bul. 77. 18 p.

Grossenbacher, J.G. 1909b. N.Y.(Geneva) Tech. Bul. 12. p.367-411.

Herrick, R.S. 1910. Colo. Bul. 170: 12-19. 19 p.

Mix, A.J. 1916b. N.Y.(Cornell) Bul. 382. p.233-284.

Oskamp, J. 1918. Ind. Circ. 87. 12 p.

Selby, A.D. 1903a. Ohio Bul. 192. p.129-148.

Sturgis, W.C. (1896) Conn. Rpt. (1895) 19: 189-190.

Taft, L.R. 1899. Mich. Spec. Bul. 11. 4 p.

FRUIT AND FRUIT TREES. INJURIES. (Cont.)

Weather injuries. (Cont.)

West, F.L. 1917. Utah Bul. 151. 24 p. (With N.E. Edlefsen)

----- 1921. Jour. Agr. Res. 20: 655-662. (Utah-12)

(With N.E. Edlefsen)

Whipple, O.B. 1912. Mont. Bul. 91. p.33-45.

See also under FRUIT AND FRUIT TREES the subheads CROWN ROT --
SUN SCALD.

FRUIT AND FRUIT TREES. WOOD DECAY.

Horne, W.T. 1915. Calif. Circ. 137. 9 p.

Zeller, S.M. 1921. Oreg. Crop Pest Rpt. (1915/20) 3:132-138.

FUMIGATION INJURY.

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See also APPLE. INJURIES. Fumigation injury.

Fungi. Infection experiments. For methods see PLANT PATHOLOGY. Cultures
and culture media -- PLANT PATHOLOGY. Laboratory methods and
appliances.

Fungi. Laboratory methods. See PLANT PATHOLOGY. Laboratory methods and
appliances.

Fungi. Temperature relations. See PLANT DISEASE ORGANISMS. Temperature
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Andrew, R.E. 1926. Conn. Bul. 278. p.491-508. (With P.
Garman)

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Beach, S.A. 1912. Iowa Bul. 127. p.45-86.

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Henderson, L.F. 1907c. Idaho Spec. Bul. [unnumbered]. 21 p.

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Parker)

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Effect on germination. See SEED TREATMENT.

Formulas. See SPRAYING. Calendars.

Injurious effects. See SPRAY INJURY.

Spreaders.

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Fernald, H.T. 1922. Mass. Bul. 207. p.1-19; Bul. 210. p.89-98. (With A.I. Bourne)

Arsenic.

Kilgore, B.W. 1891. N.C. Bul. 77b. 11 p. (Tech. Bul.2)

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Burger, O.F. 1923. Fla. Bul. 167. 140 p. (With E.F. Debusk and W.R. Briggs)

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Holland, E.B. 1927. Jour. Agr. Res. 34: 677-686. (Mass.-17)
(With C.O. Dunbar and G.M. Gilligan)

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See also FUNGICIDES - Copper -- SPRAY RESIDUES.

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Pammel, L.H. 1892a. Iowa Bul. 16: 315-329.

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Arthur, J.C. 1899. Ind. Bul. 77: 38-44.

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FUNGICIDES. (Cont.)

Formaldehyde. (Cont.)

Melhus, I.E. 1920b. Iowa Res. Bul. 59. p.353-397. (With J.C. Gilman and J.B. Kendrick)

Stewart, F.C. 1913c. N.Y. (Geneva) Bul. 369. p.385-416. (With W.O. Gloyer)

See also CEREALS. DISEASES. Smut. Control -- SEED TREATMENT -- WHEAT SEED TREATMENT AND SELECTION.

Formalin. See FUNGICIDES. Formaldehyde.

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Cullinan, F.P. 1924. Ind. Bul. 283. 22 p. (With C.E. Baker)

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Parrott, P.J. 1910. N.Y. (Geneva) Bul. 330. p.451-484. (With W.J. Schoene)

Safro, V.I. 1913. Oreg. Res. Bul. 2. 32 p.

Scott, W.M. 1910. Va. Bul. 188. 16 p.

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Thatcher, R.W. 1924. N.Y. (Geneva) Bul. 521. 20 p. (With L.R. Streeter)

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Gloyer, W.O. 1924. N.Y. (Geneva) Bul. 513. 38 p. (With H. Glasgow)

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Bibliography. See PLANT PATHOLOGY. Bibliography.

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Dissemination. See FUNGUS SPORES. Dissemination -- PLANT DISEASES. Dissemination.

Dissemination by insects. See INSECTS AS CARRIERS OF PLANT DISEASES.

Weather influences. See PLANT DISEASES. Climatic factors.

Fungus infection of seeds. See SEEDS. INFECTION.

Fungus infection of soils. See SOILS, FUNGUS INFECTION.

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Jones, L.R. 1926. Wis. Res. Bul. 71. 144 p. (With J. Johnson and J.G. Dickson)

Lewis, C.E. 1913. Maine Bul. 219. p.201-258.

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Stone, G.E. (1911) Mass. Rpt. (1910,pt.II) 23: 62-65.

See also subhead Fusarium under CEREALS -- CUCUMBER -- MAIZE -- PEA -- PEPPER -- POTATO -- SORGHUM -- SPINACH -- TRUCK CROPS -- WHEAT; Damping off under CONIFERS; Double blossom under BLACKBERRY -- DEWBERRY; Drv root rot under BEAN; Internal rot under FIG; Leaf spot under CARNATION; Pink rot under ONION; Stem rot under CARNATION -- ORNAMENTAL PLANTS; Storage and transportation rots under SWEET POTATO; Vine wilt under SWEET POTATO -- WATER--MELON; Wilt under ASTER, CHINA -- COTTON -- COWPEA -- FLAX -- OKRA -- TOMATO; Yellow blight (*Fusarium* sp.) under TOMATO; Yellows under CABBAGE.

Fusarium annuum. See PEPPER. DISEASES. *Fusarium* wilt.

Fusarium batatatis. See SWEET POTATO. DISEASES. Vine wilt.

Fusarium clavatum. See POTATO. DISEASES. *Fusarium* (Morris, H.E. 1926a)

Fusarium conglutinans. See CABBAGE. DISEASES. Yellows.

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(Bisby, G.R. 1919; Morris, H.E. 1926a)

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FUSARIUM LYCOPERSICI.
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Fusarium oxysporum. See POTATO. DISEASES. *Fusarium* -- TOMATO. DISEASES. Yellow blight (Humphrey, H.B. 1914)
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Fusarium roseum. See WHEAT. DISEASES. Scab (Selby, A.D. 1909)
Fusarium rubi. See BLACKBERRY. DISEASES. Double blossom -- DEWBERRY. DISEASES. Double blossom.
Fusarium solani. See SPINACH. DISEASES. *Fusarium solani*.
Fusarium subpallidum var. *roseum*. See POTATO. DISEASES. *Fusarium*. (Morris, H.E. 1926a)
Fusarium tracheiphilum. See SOYBEAN. DISEASES. Wilt. *Fusarium tracheiphilum*.
Fusarium trichothecioides. See POTATO. DISEASES. *Fusarium* -- POTATO. DISEASES. *Fusarium trichothecioides*.
Fusarium tuberivorum. See POTATO. DISEASES. *Fusarium* (Link, G.K.K. 1916; Morris, H.E. 1923a) -- POTATO. DISEASES. *Fusarium trichothecioides*.
FUSARIUM VASINFECTIONUM.
Higgins, B.B. 1911. N.C. Rpt. (1908/09) 32: 100-116.
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Fusicladium dendriticum. See APPLE. DISEASES. Scab..
Fusicladium effusum. See PECAN. DISEASES. Scab.
Fusicladium perenne var. *eriobotryae*. See LOQUAT. DISEASES.
Fusicladium pirinum. See PEAR. DISEASES. Scab.
Fusicoccum viticolum. See GRAPE. DISEASES. Necrosis.
Fusisporium culmorum. See WHEAT. DISEASES. Scab. *Fusarium culmorum*. (Arthur, J.C. 1891b; Detmers, F. 1892)
Galls. See ABNORMAL GROWTHS -- CEDAR RUST -- CROWN GALL -- and sub-head Black knot under CHERRY -- FRUIT AND FRUIT TREES -- PEACH -- PLUM.

Garden crops. Diseases. See TRUCK CROPS. DISEASES.

Gases. Effect on plants. See ILLUMINATING GAS. EFFECT ON PLANTS -- SMOKE AND SMELTER FUME INJURY.

Geranium. See PELARGONIUM.

Gibberella saubinetii. See WHEAT. DISEASES. Gibberella saubinetii; and subhead Fusarium under CEREALS -- MAIZE -- WHEAT.

GINSENG. DISEASES.

Reed, H.S. 1905. Mo. Bul. 69. p.41-66.

Van Hook, J.M. 1904. N.Y.(Cornell) Bul. 219. p.163-186.

Acrostalagmus albus. See GINSENG. DISEASES (Van Hook, J.M. 1904)

Alternaria. See GINSENG. DISEASES (Van Hook, J.M. 1904)

Anthraxnose. See GINSENG. DISEASES (Reed, H.S. 1905)

Black rot. See GINSENG. DISEASES. Sclerotinia rot.

Damping off. Rhizoctonia. See GINSENG. DISEASES (Van Hook, J.M. 1904)

Leaf anthracnose. Pestalozzia funerea. See GINSENG. DISEASES (Reed, H.S. 1905)

Phytophthora rot. Phytophthora cactorum.

Rosenbaum, J. 1915. N.Y.(Cornell) Bul. 363. p.61-106.

Rhizoctonia. See GINSENG. DISEASES (Van Hook, J.M. 1904)

Sclerotinia rot. Sclerotinia smilacina (S. panacis)

Bessey, E.A. 1915. Mich. Spec. Bul. 72: 3-10. (With J.A. McClintock)

Stem anthracnose. Vermicularia dematium. See GINSENG. DISEASES. (Reed, H.S. 1905)

Wilt. Acrostalagmus albus. See GINSENG. DISEASES (Van Hook, J.M. 1904)

Wilt. Fusarium vasinfectum (Neocosmospora vasinfecta) See GINSENG. DISEASES (Reed, H.S. 1905)

GLADIOLUS. DISEASES.

See also ORNAMENTAL PLANTS. DISEASES.

Hard rot. Septoria gladioli.

Massey, L.M. 1916. N.Y.(Cornell) Bul. 380. p.149-181.

Gloeosporium ampelophagum. See GRAPE. DISEASES. Anthracnose.

Gloeosporium apocryptum. See MAPLE. DISEASES. Gloeosporium apocryptum)

Gloeosporium caulivorum. See CLOVER. DISEASES. Anthracnose. Gloeosporium caulivorum.

Gloeosporium cingulatum. See PRIVET. DISEASES. Anthracnose.

Gloeosporium fructigenum. See APPLE. DISEASES. Bitter rot.

Gloeosporium limeticolum. See LIME. DISEASES. Wither tip.

Gloeosporium malicorticis. See APPLE. DISEASES. Anthracnose.

Gloeosporium melengonea (Synonym of Colletotrichum atramentarium)

See EGGPLANT. DISEASES.

Gloeosporium perennans (n.sp.) See APPLE. DISEASES. Canker.

Gloeosporium perennans.

Gloeosporium ribis. See CURRANT. DISEASES. Anthracnose.

Gloeosporium rosae. See ROSE. DISEASES. Anthracnose.

Gloeosporium venetum. See BLACKBERRY. DISEASES. Anthracnose.

Glomerella cingulata. See APPLE. DISEASES. Bitter rot -- FIG.

DISEASES -- PECAN. DISEASES -- PRIVET. DISEASES. Anthracnose.

Glomerella glycines. See SOY BEAN. DISEASES. Anthracnose.

Glomerella gossypii. See COTTON. DISEASES. Anthracnose.

Glomerella psidii. See GUAVA. DISEASES. Ripe rot.

GLOMERELLA RUFOMACULANS.

Clinton, G.P. 1902. Ill. Bul. 69. p.189-224.

See also APPLE. DISEASES. Bitter rot -- SWEET PEA. DISEASES.

(Taubenhaus, J.J. 1914)

Glutinium macrosporium (n.sp.) See APPLE. DISEASES. Canker. *Glutinium*.

macrosporium -- PEAR. DISEASES. Canker. *Glutinium macrosporium*.

Gnomonia iliau. See SUGAR CANE. DISEASES. Iliau.

Gnomoniopsis fructigena. See APPLE. DISEASES. Bitter rot (Clinton, G.P. 1902)

GOOSEBERRY. DISEASES.

Anderson, H.W. 1920b. Ill. Circ. 241: 125-134.

Barss, H.P. 1923a. Oreg. Circ. 42: 8-12.

See also SMALL FRUITS. DISEASES.

American mildew. *Sphaerotheca mors-uvae*.

Close, C.P. 1897c. N.Y.(Geneva) Bul. 133. p.489-500.

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Owens, C.E. 1921. Oreg. Crop Pest Rpt. (1915/20) 3: 152-155.

Anthracnose. *Pseudopeziza ribis*. See GOOSEBERRY. DISEASES.

Dieback. See GOOSEBERRY. DISEASES (Barss, H.P. 1923a)

European rust. *Cronartium ribicola*. See GOOSEBERRY. DISEASES
(Anderson, H.W. 1920b)

Mildew. *Sphaerotheca mors-uvae*. See GOOSEBERRY. DISEASES. American
mildew.

Mycosphaerella leaf spot. *M. grossulariae* (*Septoria ribis*) See
GOOSEBERRY. DISEASES (Anderson, H.W. 1920b)

Powdery mildew. *Sphaerotheca mors-uvae*. See GOOSEBERRY. DISEASES.
American mildew.

Pseudopeziza ribis. See GOOSEBERRY. DISEASES.

Gramineae. See GRASSES AND FORAGE PLANTS.

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Bioletti, F.T. 1908. Calif. Bul. 197: 147-158.

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334-337.

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Hunn, C.E. 1891. N.Y.(Geneva) Bul. n.s. 35. p.603-627. (With
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Lodeman, E.G. 1894. N.Y.(Cornell) Bul. 76. p.409-454.

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L.A. Hawkins)

GRAPE. DISEASES. (Cont.)

Control.(Cont.)

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Troop, J. 1892. Ind. Bul. 38: 17-18.

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Anaheim disease. See GRAPE. DISEASES. California disease.

Anthracnose. Gloeosporium ampelophagum.

Price, J.C.C. 1926. Miss. Circ. 68. 7 p. (With D.C. Neal)

Selby, A.D. 1907. Ohio Circ. 64. 6 p. (With J.M. Van Hook)

Apoplexy.

Bioletti, F.T. 1896. Calif. Rpt. Vitic. Work 1887/93-1894/95:
447-453.

Bacterial. See GRAPE. DISEASES. Crown gall.

Bacterium tumefaciens. See GRAPE. DISEASES. Crown gall.

Bitter rot. *Melanconium fuliginum*. See GRAPE. DISEASES (Rhoads,
A.S. 1926)

Black measles. See GRAPE. DISEASES. California disease.

Black rot. Guignardia bidwellii (Laestadia bidwellii, Physalospora
bidwellii)

Chester, F.D. 1889. Del. Bul. 6: 7-28.

Edson, A.W. 1903. N.C. Bul. 185. p.127-156.

Price, J.C.C. 1926. Miss. Circ. 68. 7 p. (With D.C. Neal)

Price, R.H. 1892. Tex. Bul. 23. p.217-231.

Reddick, D. 1908. N.Y.(Cornell) Bul. 253. p.365-388. (With
C.S. Wilson)

Selby, A.D. 1901a. Ohio Bul. 123. p.85-102.

Wilson, C.S. 1909. N.Y.(Cornell) Bul. 266. p.389-409. (With
D. Reddick)

Black rot. Control.

Alwood, W. B. 1892a. Va. Bul. 15. p.29-43.

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Clark, J.W. 1890. Mo. Bul. 10: 5-6.

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C.S. Wilson and C.T. Gregory)

Selby, A.D. 1902a. Ohio Bul. 130: 29-41. (With J.F. Hicks)

Botrytis cinerea. See GRAPE. DISEASES. Gray rot.

Brown rot. See GRAPE. DISEASES. Downy mildew.

California disease.

Bioletti, F.T. 1901. Calif. Bul. 134. 11 p. (With
E.H. Twight)

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McCluer, G.W. 1893. Ill. Bul. 28: 268-270.

Morse, F.W. 1886. Calif. Rpt. Vitic. Work 1885/86: 176-184.

Charrinia diplodiella. See GRAPE. DISEASES. White rot.

Clitocybe tabescens. See GRAPE. DISEASES. Root rot.

GRAPE. DISEASES. (Cont.)

Coulure.

Morse, F. W. 1886. Calif. Rpt. Vitic. Work 1885/86: 155-176.

Sturgis, W.C. (1897) Conn. Rpt. (1896) 20: 278-281.

Crown gall. Bacterium tumefaciens.

Garcia, F. 1913. N.Mex. Bul. 85. 28 p. (With J.W. Rigney)

Cryptosporella viticola. See GRAPE. DISEASES. Necrosis.

Dead arm. See GRAPE. DISEASES. Necrosis.

Downy mildew. Plasmopara viticola.

Starnes, H.N. 1895a. Ga. Bul. 28: 280-285.

Weed, C.M. 1891. Ohio Bul. (Ser.2) (25) (v.3,no.10): 253-263.

Fusicoccum viticolum. See GRAPE. DISEASES. Necrosis.

Gloeosporium ampelophagum. See GRAPE. DISEASES. Anthracnose.

Glomerella cingulata. See GRAPE. DISEASES (Rhoads, A.S. 1926)

Gray rot. Botrytis cinerea.

Bioletti, F. T. 1896. Calif. Rpt. Vitic. Work 1887-93/1894-95:
447-453.

Guignardia bidwellii. See GRAPE. DISEASES. Black rot.

Laestadia bidwellii. See GRAPE. DISEASES. Black rot.

Leaf blight. *Isariopsis clavispora*. See GRAPE. DISEASES (Rhoads,
A.S. 1926)

Little leaf.

Bioletti, F.T. 1917. Jour. Agr. Res. 8: 381-398. (Calif.-9)
(With L.O. Bonnet)

Melanconium fuligineum. See GRAPE. DISEASES (Rhoads, A.S. 1926)

Necrosis. *Cryptosporella viticola* (*Fusicoccum viticolum*)

Reddick, D. 1909a. N.Y.(Cornell)Bul. 263. p.321-343.

----- 1914. N.Y.(Geneva) Bul. 389. p.463-490.

Oidium tuckeri. See GRAPE. DISEASES. Powdery mildew.

Pestalozzia uvicola.

Wolf, F.A. 1908. Nebr. Rpt. (1907) 21: 69-72.

Physiological.

Butler, O. 1905. Calif. Bul. 168. 29 p.

Gladwin, F.E. 1918. N.Y.(Geneva) Bul. 449: p.90-110.

See also under GRAPE. DISEASES the subheads; Apoplexy --

California disease -- Coulure -- Little leaf.

Plasmopara viticola. See GRAPE. DISEASES. Downy mildew.

Powdery mildew. Uncinula necator (*Oidium tuckeri*)

Bioletti, F.T. 1907. Calif. Bul. 186. p.315-352.

----- 1915. Calif. Circ. 144. 12 p. (With F.C.H. Floss-
feder)

Henderson, L.F. 1902. Idaho Bul. 31. p.55-67.

Red leaf disease. See GRAPE. DISEASES. Physiological (Butler, O.
1905)

Ripe rot. *Glomerella cingulata*. See GRAPE. DISEASES (Rhoads, A.S.
1926)

Root rot. Clitocybe tabescens.

Butler, O. 1905. Calif. Bul. 168. 29 p.

Rhoads, A.S. 1925. Jour. Agr. Res. 30: 341-364. (Fla.-2)

Rot. See under GRAPE. DISEASES the subheads: Black rot -- Gray
rot -- Pestalozzia uvicola -- Root rot -- White rot.

GRAPE. DISEASES. (Cont.)

Shelling. See GRAPE. DISEASES. "Coulure".

Shrivel. See GRAPE. DISEASES. Physiological (Butler, O. 1905)

Uncinula necator. See GRAPE. DISEASES. Powdery mildew.

White rot. Coniothyrium diplodiella (Charrinia diplodiella)

Selby, A.D. 1901a and 1901b. Ohio Bul. 123. p.35-102.

(With J.F. Hicks)

----- 1902a. Ohio Bull. 150: 29-41. (With J.F. Hicks)

GRAPE. WEATHER INJURIES.

Gladwin, F.E. 1917. N.Y.(Geneva) Bul. 433. p.107-139.

Grapefruit. Diseases. See CITRUS. DISEASES.

Graphiola phoenicis. See DATE PALM. DISEASES. Graphiola phoenicis.

GRASSES AND FORAGE PLANTS. DISEASES.

Cook, M.T. 1918c. N.J. Circ. 102. 16 p. (With J.P. Helyar)

Jackson, H.S. 1908. Del. Bul. 83. 25 p.

Pammel, L.H. 1901. Iowa Bul. 54: 180-185, 250-344. (With

J.B. Weems and F.L. Scribner)

Weniger, W. 1923. N.Dak. Bul. 166. 92 p.

See also ALFALFA -- BLUE JOINT GRASS -- BROOM CORN -- CEREALS --

KAFIR CORN -- LEGUMINOUS PLANTS -- MILLET -- SORGHUM -- SUDAN

GRASS -- SUGAR CANE -- TIMOTHY.

Black stem rust. See GRASSES AND FORAGE PLANTS. DISEASES. Rust.

Puccinia graminis.

Brown patch.

Tilford, P.E. 1925b. Ohio Bi-month. Bul. 10: 185-187.

Helminthosporium sativum.

Christensen, J.J. 1922. Minn. Tech. Bul. 11. 42 p.

Rust. *Puccinia coronata*.

Melhus, I.E. 1922a. Iowa Res. Bul. 72. p.209-236. (With

S.M. Dietz and F. Willey)

Rust. *Puccinia graminis*.

Reddy, W.F. 1926. Mich. Quart. Bul. 8: 148-151.

See also CEREALS. DISEASES. Rust -- TIMOTHY. DISEASES. Rust.

Smut.

Melchers, L.E. 1916. Kans. Bul. 210. 38 p.

See also subhead Smut under BROOM CORN -- MILLET -- SORGHUM --

TIMOTHY.

Take all. *Ophiobolus cariceti*.

Kirby, R.S. 1925. N.Y.(Cornell) Mem. 38. 45 p.

See also CEREALS. DISEASES. Take all.

GREENHOUSE PLANTS. DISEASES.

Brown, H.D. 1922. Ind. Bul. 266: 3-19.

Haskins, H.D. 1913. Mass. Rpt. (1912, pt.II) 25: 71-79.

Maynard, S.T. 1839. Mass.(Hatch) Bul. 4: 10-15.

Selby, A.D. 1896b. Ohio Bul. 73. p.221-246.

----- 1906. Ohio Circ. 57. 7 p.

Stone, G.E. (1910) Mass. Rpt. (1909, pt.II) 22: 48-54.

See also DAMPING OFF.

Botrytis.

Melchers, L.E. 1926b. Jour. Agr. Res. 32: 883-894. (Kans.-46)

GREENHOUSE PLANTS. DISEASES. (Cont.)

Malnutrition. See GREENHOUSE PLANTS. DISEASES (Haskins, H.D. 1913)
GUAVA. DISEASES.

Ripe rot. Glomerella psidii.

Sheldon, J.L. 1906. W.Va. Bul. 104. p.297-315.

Guignardia bidwellii. See GRAPE. DISEASES. Black rot.

Guignardia aesculi. See HORSE-CHESTNUT. DISEASES. Leaf blotch.

Guignardia vaccinii. See CRANBERRY. DISEASES. Guignardia vaccinii.

GUMMOSIS.

Arthur, J.C. (1885) N.Y.(Geneva) Rpt. (1883) 3: 375-379.

Higgins, B.B. 1919a. Ga. Bul. 127. p.21-59.

See also subhead Gummosis under CHERRY -- CITRUS -- ORANGE --
PEACH.

Gymmoconia interstitialis. See RASPBERRY. DISEASES (Melhus, I.E. 1927)
GYMNOSPORANGIUM.

Chester, F.D. (1896) Del. Rpt. (1895/96) 8: 63-69.

Pammel, L.H. 1905. Iowa Bul. 84. 36-p.

Thaxter, R. 1891. Conn. Bul. 107. 6 p.

Weimer, J.L. 1917. N.Y.(Cornell) Bul. 390. p.505-549.

See also APPLE. DISEASES. Rust -- CEDAR RUST -- CONIFERS. DISEASES.
Rust.

Gymnosporangium blasdaleanum. See FRUIT AND FRUIT TREES. DISEASES.
Rust.

Gymnosporangium clavipes. See CEDAR RUST (Weimer, J.L. 1917)

Gymnosporangium globosum. See CEDAR RUST (Weimer, J.L. 1917)

GYMNOSPORANGIUM JUNIPERI-VIRGINIANAE.

Coons, G.H. 1912. Nebr. Rpt. (1911) 25:215-245.

Heald, F.D. 1909b. Nebr. Rpt. (1908) 22: 103-127.

See also APPLE. DISEASES. Rust -- CEDAR RUST.

GYMNOSPORANGIUM KOREANENSE.

Jackson, H.S. 1916. Jour. Agr. Res. 5: 1003-1010. (Ind.-2)

Gymnosporangium macropus. See APPLE. DISEASES. Rust.

GYMNOSPORANGIUM NIDUS-AVIS.

Thaxter, R. 1891. Conn. Bul. 107. 6 p.

HACKBERRY. DISEASES.

Sphaerotheca phytoptophila.

Kellerman, W.A. (1889) Kans. Rpt. (1888) 1: 302-315. (With
W.T. Swingle)

Heat injury to plants. See SOIL ENVIRONMENT. EFFECT ON PLANT
DISEASES.

Helminthosporium diseases. See MAIZE. DISEASES. Leaf blight; and
subhead Helminthosporium under BARLEY -- CEREALS -- GRASSES
AND FORAGE PLANTS -- OATS -- RYE -- WHEAT.

Helminthosporium gramineum. See BARLEY. DISEASES. Helminthosporium
gramineum.

Helminthosporium inconspicuum. See MAIZE. DISEASES. Leaf blight.

Helminthosporium inconspicuum var. brittanicum. See OATS. DISEASES.
Helminthosporium.

HELMINTHOSPORIUM SATIVUM.

Christensen, J.J. 1922. Minn. Tech. Bul. 11. 42 p.

HELMINTHOSPORIUM SATIVUM. (Cont.)

Christensen, J.J. 1926. Minn. Tech. Bul. 37. 101 p.

Dosdall, L. 1923. Minn. Tech. Bul. 17. 47 p.

See also subhead Helminthosporium sativum under BARLEY --

CEREALS -- GRASSES AND FORAGE PLANTS.

Heterosporium. See CARNATION. DISEASES. Heterosporium.

Heterosporium variabile. See SPINACH. DISEASES. Rust.

Holcus. Diseases. See PSEUDOMONAS HOLCI.

HOLLYHOCK. DISEASES.

Halsted, B.D. (1891-94) N.J. Rpt. (1890) 11: 361-362; (1891)

12: 297; (1893) 14: 381-383.

See also ORNAMENTAL PLANTS. DISEASES.

Cercospora althaeina. See HOLLYHOCK. DISEASES.

Colletotrichum malvarum. See HOLLYHOCK. DISEASES.

Phyllostica althaeina. See HOLLYHOCK. DISEASES.

Rust. Puccini malvacearum.

Dudley, W.R. 1890. N.Y. (Cornell) Bul. 25: 154-155.

Hunn, C.E. 1890. N.Y. (Geneva) Rpt. (1889) 8: 335.

HOP. DISEASES.

Powdery mildew. Sphaerotheca humuli.

Blodgett, F.M. 1913. N.Y. (Cornell) Bul. 328. p.277-312.

----- 1915. N.Y. (Geneva) Bul. 395. p.29-80.

Stewart, F.C. 1910b. N.Y. (Geneva) Bul. 328: 355-358.

HORDEUM JUBATUM. DISEASES.

Pammel, L.H. 1895d. Iowa Bul. 30: 316-318.

Erysiphe graminis. See HORDEUM JUBATUM. DISEASES.

Puccinia graminis. See HORDEUM JUBATUM. DISEASES.

HORSE CHESTNUT. DISEASES.

Stewart, F.C. 1910b. N.Y. (Geneva) Bul. 328: 358-361.

See also TREES. DISEASES.

Leaf blotch. Guignardia aesculi.

Stewart, V.B. 1916a. N.Y. (Cornell) Bul. 371. p.409-419.

Weather injuries. See HORSE CHESTNUT. DISEASES.

HORSE RADISH. DISEASES.

See also CRUCIFERS. DISEASES -- TRUCK CROPS. DISEASES.

Bacterial root rot.

Poole, R.F. (1912-23) N.J. Rpt. (1919/20) 41: 610; (1920/21)

42: 464-465; (1921/22) 43: 560-561.

Hot house plants. See GREENHOUSE PLANTS.

Humidity. Effect on plant diseases. See PLANT DISEASE ORGANISMS.

Temperature influences (Peltier, G.L. 1920b) -- PLANT DISEASES.

Climatic factors.

Hydrocyanic acid gas. See FUMIGATION INJURY.

HYDROGEN ION CONCENTRATION IN RELATION TO PLANT DISEASES.

Johnson, H.W. 1923. Iowa Res. Bul. 76. p.307-344.

Scott, I.T. 1924. Mo. Res. Bul. 64. 32 p.

Sideris, C.P. 1925. Jour. Agr. Res. 30: 1011-1019. (Calif.-39)

ILLUMINATING GAS. EFFECT ON PLANTS.

Stone, G.E. 1908b. Mass. Bul. 125: 28-48.

----- (1913) Mass. Rpt. (1912, pt. I) 25: 45-60.

----- 1916. Mass. Bul. 170: 220-228.

Immunity. See PARASITISM AND DISEASE RESISTANCE -- PLANT DISEASES.
Immunity phenomena.

Infection experiments. See PLANT PATHOLOGY. Laboratory methods and appliances. (Clinton, G.P. 1924a)

Inheritance of disease resistance. See PARASITISM AND DISEASE RESISTANCE.

INJECTING SOLUTIONS IN PLANTS.

Burke, E. 1924. Mont. Rpt. (1922/23) 30: 27.

Norton, J.B.S. 1916. Md. Bul. 192. p.17-30.

Injuries to plants. See FREEZING AND FROST INJURY -- FUMIGATION INJURY -- SHADE TREES. DISEASES AND INJURIES -- SMOKE AND SMELTER FUME INJURY -- WEATHER INJURIES; also subhead Injuries under many plants.

Injury in transit. See STORAGE AND TRANSPORTATION ROTS.

INSECTS AS CARRIERS OF PLANT DISEASES.

Gloyer, W.O. 1916. N.Y.(Geneva) Tech. Bul. 50. 22 p. (With B.B. Fulton)

Lathrop, F.H. 1918. N.Y.(Geneva) Bul. 451: 195-198.

Nelson, R. 1925. Mich. Quart. Bul. 7: 157-160.

Patch, E.M. 1921. Maine Bul. 303. p.321-344.

Wolf, F.A. 1916b. Jour. Agr. Res. 5: 891-902. (Ala.-1)

See also FUNGUS SPORES. Dissemination -- PLANT DISEASES. Dissemination.

Intumescences. See ABNORMAL GROWTHS.

Isariopsis griseola. See BEAN. DISEASES. (Cook, M.T. 1915)

IVY. DISEASES.

See also ORNAMENTAL PLANTS. DISEASES.

Vermicularia trichella.

Halsted, B.D. (1894) N.J. Rpt. (1893) 14: 405-407.

Johnson grass. Diseases. Holcus bacterial spot. See PSEUDOMONAS HOLCI.

Jonathan fruit spot. See APPLE. DISEASES. Jonathan fruit spot.

June drop. See subhead June drop under FRUIT AND FRUIT TREES -- ORANGE -- PEACH.

June grass. See KENTUCKY BLUE GRASS.

KAFIR CORN. DISEASES. See also GRASSES AND FORAGE PLANTS. DISEASES.

Smut. Sphacelotheca sorghi (Ustilago sorghi)

Melchers, L.E. 1916. Kans. Bul. 210: 13-15.

Roberts, H.F. 1907. Kans. Bul. 149. p.11-15. (With G.F. Freeman)

Keeping qualities of fruit and vegetables. See APPLE. KEEPING QUALITIES -- STORAGE AND TRANSPORTATION ROTS; also subhead Storage and transportation rots under various fruits and vegetables.

KENTUCKY BLUE GRASS. DISEASES.

See also GRASSES AND FORAGE PLANTS. DISEASES.

Sporotrichum poae.

Stewart, F.C. 1908d. N.Y.(Geneva) Tech. Bul. 7. p.83-119.

(With H.E. Hodgkiss)

Laboratory methods and appliances. See PLANT PATHOLOGY. Laboratory methods and appliances.

Laestadia bidwellii. See GRAPE. DISEASES. Black rot.
LARKSPUR. DISEASES.

Gloyer, W.O. 1924. N.Y.(Geneva)Bul. 513: 27-31. (With
H. Glasgow)

See also ORNAMENTAL PLANTS. DISEASES.

Bacterial blight. *Bacterium delphinii*. See LARKSPUR. DISEASES.

Root rot. *Sclerotium delphinii*. See LARKSPUR. DISEASES.

Lasiodiplodia triflorae. See PLUM. DISEASES. Wilt.

Lawn grass. Diseases. See GRASSES AND FORAGE PLANTS. DISEASES.
Brown patch.

LEAF DISEASES.

Stewart, V.B. 1915. N.Y.(Cornell) Bul. 358. p.165-226.

----- 1916b. N.Y.(Cornell) Circ. 32. p.1-10.

Leaf hoppers as carriers of plant diseases. See INSECTS AS CARRIERS
OF PLANT DISEASES (Lathrop, F.H. 1918)

Legislation and inspection. See PLANT DISEASES. Legislation and
inspection.

LEGUMINOUS PLANTS. DISEASES.

McCarthy, G. 1894. N.C. Bul. 98: 151-152.

See also ALFALFA -- BEAN -- CLOVER -- COWPEA -- PEA -- SOYBEAN --
SWEET PEA.

Streak. *Bacillus lathyri*.

Manns, T.F. 1915a. Del. Bul. 108. 44 p.

LEMON. DISEASES.

Smith, R.E. 1911. Calif. Bul. 218: 1120-1130. (With E.H. Smith)

See also CITRUS. DISEASES.

Alternaria.

Bartholomew, E.T. 1926. Calif. Bul. 408. 38 p.

Anthracnose. *Colletotrichum gloeosporioides*. See LEMON. DISEASES.

Black pit. *Bacterium citrerefaciens*. See CITRUS. DISEASES. Blast
and black pit.

Blue mold. *Penicillium digitatum*.

Woodworth, C.W. 1902. Calif. Bul. 139. 12 p.

Botrytis cinerea. See LEMON. DISEASES. Gummosis.

Brown rot. *Pythiacystic citrophthora*.

Fawcett, H.S. 1923a. Calif. Bul. 360: 371-397.

Smith, R.E. 1907b. Calif. Bul. 190. 72 p.

See also CITRUS. DISEASES. Brown rot.

Colletotrichum gloeosporioides. See LEMON. DISEASES.

Cottony mold. *Sclerotinia libertiana*. See LEMON. DISEASES -- LEMON.
DISEASES. Storage and transportation rots.

Gummosis. *Botrytis cinerea*.

Fawcett, H.S. 1923a. Calif. Bul. 360: 401-406.

See also CITRUS. DISEASES. Gummosis -- LEMON. DISEASES.

Penicillium digitatum. See LEMON. DISEASES. Blue mold.

Petaca. See LEMON. DISEASES.

Pythiacystic citrophthora. See LEMON. DISEASES. Brown rot.

Red rot. See LEMON. DISEASES.

Rot. See under LEMON. DISEASES the subheads Alternaria -- Blue mold --

Brown rot -- Storage and transportation rots.

Sclerotinia libertiana. See LEMON. DISEASES -- LEMON. DISEASES.

Storage and transportation rots.

LEMON. DISEASES. (Cont.)

Stem end rot. *Phomopsis citri*. See CITRUS. DISEASES. Stem end rot.
Storage and transportation rots. *Sclerotinia libertiana*.

Smith, C.O. 1916. Calif. Bul. 265. p.237-258.

Tear stain. *Colletotrichum gloeosporioides*. See LEMON. DISEASES.

White rot. *Sclerotinia libertiana*. See LEMON. DISEASES -- LEMON.
DISEASES. Storage and transportation rots.

Wither top. *Colletotrichum gloeosporioides*. See LEMON. DISEASES.

Leptosphaeria coniothyrium. See APPLE. DISEASES. Tree cricket canker -
RASPBERRY. DISEASES. Cane blight.

LETTUCE. DISEASES.

Beach, W.S. 1926. Penn. Bul. 202. 28 p.

Jones, L.R. (1893) Vt. Rpt. (1892) 6: 84-88.

Stone, G.E. 1900. Mass. (Hatch) Bul. 69. 40 p. (With
R.E. Smith)

See also GREENHOUSE PLANTS. DISEASES -- TRUCK CROPS. DISEASES.

Aplanobacter rhizoctonia. See LETTUCE. DISEASES. Rosette.
Bacterial.

Brown, J.G. (1921) Ariz. Rpt. (1920/21) 32: 610-611.

Fawcett, H.S. (1908) Fla. Rpt. 1907/08: lxxx-lxxxvii.

Garman, H. 1899b. Ky. Bul. 81. 11 p.

Stevens, F.L. (1908) N.C. Rpt. (1906/07) 30: 29-30.

Thomas, R.C. 1920. Ohio Month. Bul. 5: 24-25.

See also LETTUCE. DISEASES. Rosette.

Botrytis cinerea (*B. vulgaris*)

Humphrey, J.E. (1892) Mass. Rpt. (1891) 9: 219-222.

Melchers, L.E. 1926b. Jour. Agr. Res. 32: 883-894. (Kans.-46)

Ramsey, H.J. 1904. Wis. Rpt. (1903/04) 21: 279-288.

Downy mildew. *Bremia lactucae*.

Erwin, A.T. 1921. Iowa Bul. 196. p.307-328.

Warner, C.D. 1892. Mass.(Hatch) Bul. 16: 7-8.

Drop. See LETTUCE. DISEASES. *Sclerotinia*.

Gray mold. See LETTUCE. DISEASES. *Botrytis cinerea*.

Physiological. See LETTUCE. DISEASES. Tipburn.

Rhizoctonia solani. See LETTUCE. DISEASES (Beach, W.S. 1926)

Rosette. *Aplanobacter rhizoctonia*.

Thomas, R.C. 1922. Ohio Bul. 359. p.197-214.

Rot. See LETTUCE. DISEASES. Bacterial.

Sclerotinia minor.

Beach, W.S. 1921. Penn. Bul. 165. 27 p.

Sclerotinia sclerotiorum (*S. libertiana*)

Burger, O.F. 1913. Fla. Bul. 116. p.25-32.

Hume, H.H. (1901) Fla. Rpt. 1900/01: 90-94.

Krout, W.S. 1923b. Jour. Agr. Res. 23: 645-654. (Mass.-7)

Stevens, F.L. 1911a. N.C. Bul. 217. p.1-21.

----- 1911b. N.C. Tech. Bul. 8. p.85-143. (With
J.G. Hall)

Tipburn.

Thompson, R.C. 1926. Colo. Bul. 311. 31 p.

Lichen injury to fruit trees. See FRUIT AND FRUIT TREES. INJURIES.
Moss and lichen injury.

Light, Effect on plants. See CHLOROSIS.

LILY. DISEASES.

Stewart, F.C. (1896) N.Y. Rpt. (1895) 14: 520-524.

See also ORNAMENTAL PLANTS. DISEASES.

Lima bean. See BEAN.

LIME. DISEASES.

See also CITRUS. DISEASES.

Withertip. Gloeosporium limetticolum.

Fawcett, H.S. 1915b. Calif. Bul. 262: 178-180.

Lime in soils, Effect on plants. See CHLOROSIS -- SOIL REACTION DISEASES.

Lime sulphur wash. See FUNGICIDES. Lime sulphur wash.

Limestone injury to citrus. See CITRUS. DISEASES. Mottled leaf.

Little peach. See PEACH. DISEASES. Little peach.

LOGANBERRY. DISEASES.

See also SMALL FRUITS. DISEASES.

Mosaic.

Frank, A. 1924. Wash. (West.) Bi-month. Bul. 12: 48-51.

Zeller, S.M. 1923. Oreg. Circ. 49. 15 p.

LOQUAT. DISEASES.

Condit, I.J. 1915. Calif. Bul. 250: 280-281.

Anthraxnose or blossom blight. Colletotrichum sp. See LOQUAT. DISEASES.

Black spot or scab. Fusicladium denditricum var. eriobotryae. See LOQUAT. DISEASES.

Losses due to plant diseases. See CROP LOSSES DUE TO PLANT DISEASES.

Lucerne. See ALFALFA.

Macrosporium cucumerinum. See CUCUMBER. DISEASES (Weber, G.F. 1925) -- MELON. DISEASES. Blight.

Macrosporium nigricantium. See COTTON. DISEASES: Physiological (Earle, F.S. 1898)

Macrosporium parasiticum. See ONION. DISEASES. (Edgerton, C.W. 1921c)

Macrosporium tomato. See TOMATO. DISEASES. Macrosporium tomato.

Maize. Albinism. See ALBINISM.

MAIZE. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Holbert, J.R. 1924. Ill. Bul. 255. p.239-478. (With W.L. Burlison, B. Koehler; C.M. Woodworth and G.H. Dungan)

MAIZE. DISEASES:

Dungan, G.H. 1926. Ill. Bul. 284. p.255-281.

Hoffman, I.C. 1921. N.J. Rpt. (1919/20) 41: 598-604. (With M.T. Cook)

Holbert, J.R. 1924. Ill. Bul. 255. p.239-478. (With W.L. Burlison, B. Koehler, C.M. Woodworth and G.H. Dungan)

Koehler, B. 1925a. Ill. Bul. 266. p.311-371. (With G.H. Dungan and J.R. Holbert)

----- 1925b. Ill. Circ.299. 8 p. (With N.A. Pettinger)

Pammel, L.H. 1915. Iowa Circ. 21. 8 p. (With C.M. King and J.L. Seal)

See also CEREALS. DISEASES -- TRUCK CROPS. DISEASES.

Control. See MAIZE. SEED TREATMENT AND SELECTION.

MAIZE. DISEASES. (Cont.)

Aspergillus.

Taubenhaus, J.J. 1920c. Tex. Bul. 270. 38 p.

Bacterial. Anlanobacter stewartii (Bacterium stewartii)

Garman, H. 1917a. Ky. Circ. 13. 4 p.

Stewart, F.C. 1897b. N.Y.(Geneva) Bul. 130. p.421-439.

Thomas, R.C. 1924b. Ohio Month. Bul. 9: 81-84.

See also MAIZE. DISEASES. Holcus bacterial spot.

Bacterial root and stalk rot. Pseudomonas dissolvens (Phytopomonas dissolvens)

Burrill, T.J. 1889. Ill. Bul. 6. p.165-176.

Rosen, H.R. 1919. Ark. Bul. 162. 7 p.

----- 1926a. Ark. Bul. 209. 30 p. (Reprint from
Phytopath. 16: 241-267, with additional notes)

Bacterium stewartii. See MAIZE. DISEASES. Bacterial.

Basisporium gallarum. See MAIZE. DISEASES. Dry rot. Basisporium gallarum.

Black bundle. Cephalosporium acremonium. See MAIZE. DISEASES.

(Holbert, J.R. 1924; Koehler, B. 1925b)

Black mold. See MAIZE. DISEASES. Aspergillus.

Blotch leaf. See MAIZE. DISEASES. Physiological.

Brown spot. Physoderma zeae-maydis. See MAIZE. DISEASES. (Holbert, J.R. 1924)

Cob rot.

Jehle, R.A. 1927. Md. Bul. 290. p.178-196. (With F.W. Oldenburg and C.C. Temple)

See also MAIZE. DISEASES. Dry rot. Basisporium gallarum.

Dry rot. Basisporium gallarum (Coniosporium gecevi)

Arzberger, E.G. 1913. Ohio Bul. 265. p.69-82.

Durrell, L.W. 1925. Iowa Res. Bul. 84. p.137-160.

Dry rot. Diplodia zeae.

Burrill, T.J. 1908. Ill. Circ. 117. 3 p. (With J.T. Barrett)

----- 1909. Ill. Bul. 133. p.63-109. (With J.T.

Barrett)

Clayton, E.E. 1927. Jour. Agr. Res. 34: 357-371. (N.Y.(Geneva)-7)

Durrell, L.W. 1923. Iowa Res. Bul. 77. p.345-376.

Heald, F.D. 1909a. Nebr. Rpt. (1908) 22: 1-18. (With E.M. Wilcox and V.W. Pool)

Manns, T.F. 1921. Del. Bul. 128. 24 p. (With J.F. Adams)

Melhus, I.E. 1922b. Iowa Circ. 78. 8 p. (With L.W. Durrell)

Stevens, F.L. (1909) N.C. Rpt.(1907/08) 31: 37-39. (With J.G. Hall)

Ear molds. See MAIZE. DISEASES. Aspergillus -- MAIZE. DISEASES. Fusarium moniliforme.

Ear rots. See MAIZE. DISEASES. Dry rot. Diplodia zeae -- MAIZE. DISEASES. Fusarium.

Fusarium (Gibberella saubinetii)

Branstetter, B.B. 1924. Mo. Circ. 117. 8 p.

Burrill, T.J. 1909. Ill. Bul. 133. p.63-109. (With J.T. Barrett)

MAIZE. DISEASES. (Cont.)

Fusarium (Gibberella saubinetii) (Cont.)

Hoffman, I.C. 1921. N.J. Rpt. (1919/20) 41: 598-604. (With M.T. Cook)

Manns, T.F. 1921. Del. Bul. 128. 24 p. (With J.F. Adams)

----- 1924. Jour. Agr. Res. 27: 957-964. (Del.-5)

(With C.E. Phillips)

Moore, W.D. 1924. N.J. Rpt. (1922/23) 44: 404-407.

Pammel, L.H. 1916. Iowa Res. Bul. 33. p.113-136. (With C.M. King and J.L. Seal)

Valleau, W.D. 1926c. Jour. Agr. Res. 33: 453-476. (Ky.-19)

(With P.E. Karraker and E.M. Johnson)

See also CEREALS. DISEASES. Fusarium.

Fusarium moniliforme.

Sheldon, J.L. 1904a. Nebr. Rpt. (1903) 17: 23-32.

Valleau, W.D. 1920. Ky. Bul. 226. p.25-51.

Gibberella saubinetii. See MAIZE. DISEASES (Holbert, J.R. 1924) --

MAIZE. DISEASES. Fusarium.

Head smut. See MAIZE. DISEASES. Smut. Sphacelotheca reiliana.

Holcus bacterial spot. Pseudomonas holci.

Kendrick, J.B. 1926a. Iowa Res. Bul. 100. p.303-334.

Leaf blight. Helminthosporium inconspicuum.

Chester, F.D. 1904. Del. Bul. 63: 19-23. (With C.O. Smith)

Physiological.

Emerson, R.A. 1923. N.Y. (Cornell) Mem. 70. 16 p.

Physoderma zeae-maydis. See MAIZE. DISEASES (Holbert, J.R. 1924)

Phytomonas dissolvens. See MAIZE. DISEASES. Bacterial root and stalk rot.

Pseudomonas dissolvens. See MAIZE. DISEASES. Bacterial root and stalk rot.

Pseudomonas holci. See MAIZE. DISEASES. Holcus bacterial spot.

Root rot. See under MAIZE. DISEASES the subheads: Bacterial root and stalk rot -- Dry rot. Diplodia zeae -- Fusarium --

Fusarium moniliforme.

Rust. Puccinia sorghi. See MAIZE. DISEASES (Holbert, J.R. 1924)

Scutellum rot. Rhizopus. See MAIZE. DISEASES (Holbert, J.R. 1924; Koehler, B. 1925b)

Seedling blight. See MAIZE. DISEASES. Dry rot. Diplodia zeae.

Smut. Sphacelotheca reiliana (Sorosporium reilianum, Ustilago reiliana)

Dana, B.F. 1920. Wash. Pop. Bul. 119. 8 p. (With G.L. Zundel)

Hitchcock, A.S. 1896. Kans. Bul. 62: 198-200. (With J.B.S. Norton)

Smut. Ustilago zeae (U. maydis, U. mays-zeae)

Arthur, J.C. (1896) Ind. Rpt. (1895) 8: 24-26.

----- (1900) Ind. Rpt. (1898/99) 12: 84-135. (With W. Stuart)

Bessey, C.E. 1889b. Nebr. Bul. 11: 25-36.

----- 1890. Ohio Bul. (Ser.2) [25] (v.3, no.10): 264-272.

MAIZE. DISEASES. (Cont.)

Smut. Ustilago zeae (U. maydis, U. mays-zeae) (Cont.)

Henry, W.A. 1884. Wis. Rpt. (1883) 1: 26-27.

Hitchcock, A.S. 1896. Kans. Bul. 62. p.169-212. (With J.B.S. Norton)

Kellerman, W.A. 1891d. Kans. Bul. 23. p.95-105.

Pammel, L.H. 1892a. Iowa Bul. 16: 315-329.

Sorosporium reilianum. See MAIZE. DISEASES. Smut. Sphacelotheca reiliana.

Sphacelotheca reiliana. See MAIZE. DISEASES. Smut. Sphacelotheca reiliana.

Stalk rot. See MAIZE. DISEASES. Bacterial root and stalk rot -- MAIZE. DISEASES. Fusarium moniliforme.

Stewart's disease. See MAIZE. DISEASES. Bacterial.

Ustilago maydis. See MAIZE. DISEASES. Smut. Ustilago zeae.

Ustilago mays-zeae. See MAIZE. DISEASES. Smut. Ustilago zeae.

Ustilago zeae. See MAIZE. DISEASES. Smut. Ustilago zeae.

Yellow mold. See MAIZE. DISEASES. Aspergillus.

Maize. Lodging. See MAIZE. DISEASES (Koehler, B. 1925a)

MAIZE. SEED INFECTION.

Manns, T.F. 1923. Jour. Agr. Res. 23: 495-524. (Del.-4 (With J.F. Adams)

MAIZE. SEED TREATMENT AND SELECTION.

Duddleston, B.H. 1920. Ind. Bul. 236. 12 p.

Edgerton, C.W. 1925a. La. Bul. 193. 24 p. (With A.F. Kidder)

Hitchcock, A.S. 1894a. Kans. Bul. 41. p.63-79. (With M.A. Carleton)

Hoffer, G.N. 1918. Ind. Bul. 224. 16 p. (With J.R. Holbert)

----- 1920. Ind. Bul. 233. 12 p.

Holbert, J.R. 1920. Ill. Circ. 243. 4 p.

Kiesselbach, T.A. 1922. Nebr. Res. Bul. 20: 130-147.

----- 1927. Nebr. Bul. 218. 15 p.

Valleau, W.D. 1926b. Jour. Agr. Res. 32: 1195-1198. (Ky.-18) (With E.M. Johnson)

MAIZE. WEATHER INJURIES.

Kiesselbach, T.A. 1920. Nebr. Res. Bul. 16. 96 p. (With J.A. Ratcliff)

MALNUTRITION DISEASES.

Chapman, G.H. (1911) Mass. Rpt. (1910, pt. I) 23: 149-160.

Stone, G.E. (1910) Mass. Rpt. (1909, pt. I) 22: 154-162.

See also CHLOROSIS -- CITRUS. DISEASES. Mottled leaf -- ORANGE. MALNUTRITION DISEASES -- PHYSIOLOGICAL DISEASES.

MANDRAKE. DISEASES.

Rust. Puccinia podophylli.

Whetzel, H.H. 1925b. Jour. Agr. Res. 30: 65-79. (N.Y. (Cornell) -5) (With H.S. Jackson and E.B. Mains)

MAPLE. DISEASES.

See also SHADE TREES. DISEASES AND INJURIES -- TREES. DISEASES.

MAPLE. DISEASES. (Cont.)

Gloeosporium apocryptum.

Stewart, F.C. (1896) N.Y. (Geneva) Rpt. (1895) 14: 531-532.

Leaf scorch. See MAPLE. WEATHER INJURIES. (Stewart, F.C. 1899a)

Nectria.

Cook, M.T. (1915) N.J. Rpt. (1913/14) 35: 504.

Thrombotic disease. See MAPLE. DISEASES. Wilt.

Wilt. Acrostalagmus.

Reed, H.S. 1915a. Va. Tech. Bul. 2: 52-55. (With C.H. Crabill)

MAPLE. WEATHER INJURIES.

Stewart, F.C. 1899a. N.Y. (Geneva) Bul. 162. p.165-178.

----- 1910b. N.Y. (Geneva) Bul. 328: 362-363.

Stone, G.E. (1911-13) Mass. Rpt. (1910, pt. II) 23: 52-55;
(1912, pt. I) 25: 73-83.

----- (1912) Mass. Rpt. (1911, pt. II) 24: 54-55.

Marasmius plicatus. See SUGAR CANE. DISEASES. Root disease.

Marasmius.

Marssonina populi. See POPLAR. DISEASES. Blight.

Melampsora lini. See FLAX. DISEASES. Rust.

Melanose. See CITRUS. DISEASES. Melanose.

MELANOSPORA PAMPEANA.

Heald, F.D. 1909c. Nebr. Rpt. (1908) 22: 130-134. (With V.W. Pool)

Meliola penzigi (M. camelliae) See CITRUS. DISEASES. Sooty mold.

MELON. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Blinn, P.K. 1905. Colo. Bul. 104. 15 p.

----- ,1908. Colo. Bul. 126: 5-8.

Halsted, B.D. (1907) N.J. Rpt. (1906) 27: 506-510.

MELON. DISEASES.

Chester, F.D. 1902. Del. Bul. 57: 7-8.

Halsted, B.D. (1894) N.J. Rpt. (1893) 14: 352-356.

Hume, H.H. (1901) Fla. Rpt. 1900/01: 86-90.

Melhus, I.E. 1925. Iowa Circ. 99. 16 p. (With O.H. Elmer)

Reed, H.J. 1917. Ind. Circ. 68: 13-16.

Selby, A.D. 1899b. Ohio Bul. 105: 229-232.

Sturgis, W.C. (1898) Conn. Rpt. (1898) 22: 225-235.

See also CUCURBITS. DISEASES -- TRUCK CROPS. DISEASES --

WATERMELON. DISEASES.

Control.

Jarvis, C.D. 1912. Conn. (Storrs) Bul. 72. p.89-123.

Jehle, R.A. 1924. Md. Bul. 263. p.169-180. (With S.F. Potts)

Orton, W.A. 1905. S.C. Bul. 116. 36 p. (With W.D. Garrison)

Sturgis, W.C. (1900) Conn. Rpt. (1899) 23: 270-273.

Alternaria brassicae var. nigrescens. See TRUCK CROPS. DISEASES.

(Durrell, L.W. 1927b)

Angular leaf spot. Bacterium lachrymans. See TRUCK CROPS. DISEASES

(Durrell, L.W. 1927b)

Anthracnose. Colletotrichum lagenarium. See CUCURBITS. DISEASES

(Martin, W.H. 1917a)

MELON. DISEASES. (Cont.)

Bacterial soft rot. Bacillus melonis.

Giddings, N.J. 1910. Vt. Bul. 148. p.361-416.

Bacterial wilt. Bacillus tracheiphilus.

Troop, J. 1909. Ind. Rpt. (1908) 21: 30-31. (With C.G. Woodbury)

Blight. Macrosporium cucumerinum.

Blinn, P.K. 1905. Colo. Bul. 104. 15 p.

Griffin, H.H. 1901. Colo. Bul. 62: 7-15.

----- 1902. Colo. Bul. 68: 12-14.

Downy mildew. Pseudoperonospora cubensis (Peronosplasmopara cubensis)

Clinton, G.P. (1905) Conn. Rpt. (1904) 28: 329-362.

Leaf blight. See MELON. DISEASES. Physiological.

Leaf blight. *Alternaria brassicae* var. *nigrescens*. See CUCURBITS. DISEASES (Martin, W.H. 1917a)

Mycosphaerella wilt. M. citrullina.

Grossenbacher, J.G. 1909a. N.Y. (Geneva) Tech. Bul. 9. p.193-229.

Physiological.

Sturgis, W.C. (1897) Conn. Rpt. (1896) 20: 267-268.

Rust. See MELON. DISEASE RESISTANCE AND RESISTANT VARIETIES -- MELON. DISEASES. Blight.

Scab or mould. *Cladosporium cucumerinum*. See CUCURBITS. DISEASES (Martin, W.H. 1917a)

Wilt. See CUCURBITS. DISEASES. *Mycosphaerella citrullina* -- MELON. DISEASES. Bacterial wilt -- MELON. DISEASES. *Mycosphaerella* wilt.

Merulius lacrymans. See WOOD DESTROYING FUNGI. *Merulius lacrymans*.

Micrococcus amylovorus. See APPLE. DISEASES. Fire blight (Cassidy, J. 1888) -- FRUIT AND FRUIT TREES. DISEASES. Fire blight (Sturgis, W.C. (1895))

Microsphaera alni. See PECAN. DISEASES.

Microsphaera euphorbiae. See COWPEA. DISEASES. Mildew -- ROSELLE. DISEASES. *Microsphaera euphorbiae*.

MILDEWS.

Halsted, B.D. (1903) N.J. Rpt. (1902) 23: 419-420.

See also DOWNY MILDEWS -- POWDERY MILDEWS and the subheads Downy mildew -- Mildew -- Powdery mildew under various hosts.

MILLET. DISEASES.

Pammel, L.H. 1909. Iowa Bul. 104: 233-244. (With C.M. King)

Downy mildew. *Sclerospora graminicola*. See MILLET. DISEASES.

Leaf blight. See MILLET. DISEASES. *Piricularia grisea*.

Leaf spot. See MILLET. DISEASES. *Piricularia grisea*.

Piricularia grisea.

Jackson, H.S. 1908. Del. Bul. 83: 9-11.

Smut. *Ustilago crameri* and *U. panici miliacei*.

Vasey, H.E. 1918b. Colo. Bul. 242. 22 p.

See also MILLET. DISEASES.

Monilia fructigena. See subhead Brown rot under APPLE -- FRUIT AND FRUIT TREES -- PEACH -- PLUM.

Monilia oregonensis. See FRUIT AND FRUIT TREES. DISEASES. Brown rot (Barss, H.P. 1923c)

Monilochaetes infuscans. See SWEET POTATO. DISEASES (Poole, R.F. 1922b) -- SWEET POTATO. DISEASES. Soilstain.

Monochaetia rosenwaldia. See APRICOT. DISEASES. *Monochaetia rosenwaldia*.

MOSAIC DISEASES.

Chapman, G.H. (1908) Mass. Rpt. (1907) 20: 136-144.

----- (1913) Mass. Rpt. (1912, pt. II) 25: 41-51.

Elmer, O. H. 1925a. Iowa Res. Bul. 82. p.37-91.

Fernow, K.H. 1925. N.Y. (Cornell) Mem. 96. 34 p.

Nelson, R. 1922. Mich. Tech. Bul. 58. 30 p.

See also subhead Mosaic under BEAN -- CELERY -- LOGANBERRY -- POTATO -- RASPBERRY -- SMALL FRUITS -- SOYBEAN -- SUGAR CANE -- SWEET POTATO -- TOBACCO -- TOMATO -- TURNIP.

Moss injury to fruit trees. See FRUIT AND FRUIT TREES. INJURIES. Moss and lichen injury.

Mottling of leaves. See CHLOROSIS -- CITRUS. DISEASES. Mottled leaf.

Muskmelon. See CUCURBITS -- MELON.

Mycology. Laboratory methods and technique. See PLANT PATHOLOGY. Laboratory methods and technique.

Mycosphaerella. See RYE. DISEASES. *Mycosphaerella*.

Mycosphaerella citrullina. See CUCUMBER. DISEASES (Weber, G.F. 1925) CUCURBITS. DISEASES. *Mycosphaerella citrullina* -- MELON. DISEASES. *Mycosphaerella wilt*.--

Mycosphaerella fragariae. See STRAWBERRY. DISEASES. Leaf blight.

Mycosphaerella gossypina. See COTTON. DISEASES (Atkinson, G.F. 1892b)

Mycosphaerella grossulariae. See GOOSEBERRY. DISEASES (Anderson, H.W. 1920b)

Mycosphaerella rosigena. See ROSE. DISEASES (Stewart, F.C. 1910b)

Mycosphaerella rubi. See RASPBERRY. DISEASES (Melhus, I.E. 1927)

Mycosphaerella rubina. See RASPBERRY. DISEASES. Spur blight.

Mycosphaerella sentina. See PEAR. DISEASES (Anderson, H.W. 1920b)

Mycosphaerella ulmi. See ELM. DISEASES (Stewart, F.C. 1919)

Myxosporium corticolum. See APPLE. DISEASES. Canker -- FRUIT AND FRUIT TREES. DISEASES. (Anderson, H.W. 1920b)

NASTURTIUM. DISEASES.

See also ORNAMENTAL PLANTS. DISEASES.

Fleospora tropeoli.

Halsted, B.D. (1893) N.J. Rpt. (1892) 13: 290-293

Necrosis. See GRAPE. DISEASES. Necrosis -- POTATO. DISEASES. Leaf roll.

Nectria cinnabarina. See CURRANT. DISEASES. Canker -- MAPLE. DISEASES. *Nectria*.

Nectria coccinea. See MAPLE. DISEASES. *Nectria*.

Nectria ditissima. See APPLE. DISEASES. Canker. *Nectria galligena*.

Nectria galligena. See APPLE. DISEASES. Canker. *Nectria galligena* -- FRUIT AND FRUIT TREES. DISEASES. Canker.

Nectria ipomoeae. See EGGPLANT. DISEASES.

Neocosmospora vasinfecta. See COTTON. DISEASES. Wilt -- COWPEA.

DISEASES. Wilt -- GINSENG. DISEASES (Reed, H.S. 1905)

Neofabrea malicorticis. See APPLE. DISEASES. Anthracnose (Jackson, H.S. 1913)

Norway maple. See MAPLE. DISEASES. *Gloeosporium apocryptum* -- MAPLE. DISEASES. *Nectria*.

Noxious gases, Effect on plants. See SMOKE AND SMELTER FUME INJURY.

Nummularia discreta. See APPLE. DISEASES. Canker. *Nummularia discreta*.

Nursery inspection. See PLANT DISEASES. Legislation and inspection.

NURSERY STOCK. DISEASES.

Cook, M.T. 1914b. N.J. Circ. 35. 24 p.

Forbes, S.A. 1901. Ill. Circ. 36. 43 p.

Garman, H. 1899a. Ky. Bul. 80: 201-265.

Stewart, V.B. 1915. N.Y. (Cornell) Bul. 358. p. 165-226.

Control.

Stewart, V.B. 1916b. N.Y. (Cornell) Circ. 32. p. 1-10.

----- 1917. N.Y. (Cornell) Bul. 395. p. 335-361.

See also DUSTING -- FRUIT AND FRUIT TREES. DISEASES. Control -- SPRAYING.

Crown gall.

Smith, C.O. 1926. Jour. Agr. Res. 31: 957-971. (Calif.-41)

See also CROWN GALL.

Nuts and nut trees. See ALMOND -- CHESTNUT -- FILBERT -- PECAN -- WALNUT.

OAK. DISEASES.

See also SHADE TREES. DISEASES AND INJURIES -- TREES. DISEASES.

Leaf curl. *Taphrina coerulescens*.

Wilcox, E.M. 1903. Ala. Bul. 126. p. 169-137.

Physiological.

Stone, G.E. (1911-13) Mass. Rpt. (1910, pt. ii) 23: 52-55; (1912, pt. I) 25: 73-83.

OATS. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Durrell, L.W. 1920b. Iowa Res. Bul. 62. p. 25-56d. (With J.E. Parker)

Garber, R.J. 1922. Minn. Tech. Bul. 7. 62 p.

Reed, G.M. 1920b. Mo. Res. Bul. 37. 41 p.

Stadler, L.J. 1925. Mo. Bul. 229: 17-18.

OATS. DISEASES.

Weniger, W. 1923. N. Dak. Bul. 166: 28-33.

See also CEREALS. DISEASES.

Anthracnose. *Colletotrichum cereale*. See CEREALS. DISEASES. Anthracnose.

Bacterial blade blight. *Pseudomonas avenae* (*Bacillus avenae*)

Manns, T.F. 1909b. Ohio Bul. 210. p. 91-167.

Black blight. *Cladosporium herbarum*. See CEREALS. DISEASES.

Cladosporium herbarum.

Black smut. See OATS. DISEASES. Smut (Arthur, J.C. 1889b)

Covered or hidden smut. *Ustilago levis*. See OATS. DISEASES. Smut.

Crown rust. See OATS. DISEASES. Rust. *Puccinia coronata*.

Halo blight. *Bacterium coronafaciens*. See OATS. DISEASES.

Helminthosporium.

Harvey, F.L. (1895) Maine Rpt. (1894) 10: 90-103.

Leaf rust. See OATS. DISEASES. Rust. *Puccinia coronata*.

Loose smut. *Ustilago avenae*. See OATS. DISEASES. Smut.

OATS. DISEASES. (Cont.)

Powdery mildew. Erysiphe graminis.

Reed, G.M. 1920b. Mo. Res. Bul. 37. 41 p.

Rust. Puccinia coronata.

Durrell, L. W. 1920b. Iowa Res. Bul. 62. p.25-56d. (With J.H. Parker)

Melhus, I.E. 1919a. Iowa Res. Bul. 49. p.113-144. (With L.W. Durrell)

----- 1919d. Iowa Circ. 62: 13-15. (With L.W. Durrell)

----- 1922a. Iowa Res. Bul. 72. p.209-236. (With S.M. Dietz and F. Willey)

Reed, G.M. 1920b. Mo. Res. Bul. 37. 41 p.

----- (1913) Va. Rpt. 1910-11/1911-12: 78-81. (With F.S. Holmes)

Rust. Puccinia graminis avenae.

Bailey, D.L. 1925. Minn. Tech. Bul. 35. 35 p.

Durrell, L.W. 1920b. Iowa Res. Bul. 62. p.25-56d. (With J.H. Parker)

Garber, R.J. 1922. Minn. Tech. Bul. 7. 62 p.

See also CEREALS. DISEASES. Rust.

Smut. Ustilago avenae and U. levis.

Arthur, J.C. 1889b. Ind. Bul. 28. 23 p.

----- 1910. Ind. Circ. 22. 15 p. (With A.G. Johnson)

Jones, L.R. (1892-97) Vt. Rpt. (1891) 5: 135-138; (1892) 6: 73-82; (1893) 7: 60-65; (1894) 8: 114; (1895) 9: 106-112; (1896) 10: 59-60.

Kellerman, W.A. 1889. Kans. Bul. 8. p.91-104. (With W.T. Swingle)

----- 1891a. Kans. Bul. 15. p.93-133. (With W.T. Swingle)

Moore, R.A. 1904b. Wis. Rpt. (1903/04) 21: 317-320.

Reed, G.M. 1920b. Mo. Res. Bul. 37. 41 p.

See also CEREALS. DISEASES. Smut.

Smut. Control.

Arthur, J.C. 1891a. Ind. Bul. 35. p.79-97.

----- 1905. Ind. Bul. 103. p.257-264.

Burlison, W.L. 1920. Ill. Circ. 240. 4 p. (With R.W. Stark)

Close, C.P. 1897b. N.Y.(Geneva) Bul. 131. p.441-454.

Fox, C.P. 1893. Idaho Bul. 4: 2-6.

Harwood, P.M. 1892. Mich. Bul. 87. 10 p.

Henderson, L.F. 1906b. Idaho Bul. 53. 15 p.

Hickman, J.F. 1898. Ohio Bul. 97: 43-61. (With A.D. Selby)

Hughes, H.D. 1918. Iowa Circ. 45. 8 p.

Kellerman, W.A. 1891c. Kans. Bul. 22: 73-93.

Martin, W.H. (1925-26) N.J. Rpt. (1923/24) 45: 390-392; (1924/25) 46: 457-460.

Moore, R.A. 1904c. Wis. Bul. 111. 10 p.

Pammel, L.H. 1893b. Iowa Bul. 20: 721-728. (With F.C. Stewart)

Pernot, E.F. 1900. Oreg. Bul. 63. 9 p.

Shamel, A.D. 1901. Ill. Bul. 64. p.57-72.

OATS. DISEASES. (Cont.)

Smut. Control. (Cont.)

Stevens, F.L. 1910b. N.C. Bul. 212. p.71-84.

Stuart, W. 1901. Ind. Bul. 87. 26 p.

Thomas, R.C. 1925. Ohio Bul. 390. p.405-423.

----- 1926. Ohio Bi-month, Bul. 11: 18-23. (With
P.E. Tilford)

Wilcox, E.V. 1899. Mont. Bul. 22: 17-25.

See also CEREALS. DISEASES. Smut. Control.

Stem rust. See OATS. DISEASES. Rust. Puccinia graminis avenae.

Take all. See CEREALS. DISEASES. Take all.

Ustilago avenae. See OATS. DISEASES. Smut.

Ustilago levis. See OATS. DISEASES. Smut.

Ustilago segetum. See OATS. DISEASES. Smut (Arthur, J.C. 1889b;
Kellerman, W.A. 1889)

Oats. Seed treatment. See OATS. DISEASES. Smut. Control.

Oedema. See ABNORMAL GROWTHS. Oedema.

OENOTHERA. DISEASES.

See also ORNAMENTAL PLANTS. DISEASES.

Rust. Puccinia oenothera.

Blasdale, W.C. 1893. Calif. Rpt. 1891/92: 227-232.

Oidium balsamii. See TURNIP. DISEASES. Mildew.

Oidium fructigenum. See PEACH. DISEASES. Brown rot.

Oidium leucoconium. See PEACH. DISEASES. Powdery mildew.

Oidium tuckeri. See GRAPE. DISEASES. Powdery mildew.

OKRA. DISEASES.

See also TRUCK CROPS. DISEASES.

Wilt. Fusarium vasinfectum.

Stevens, F.L. (1912) N.C. Rpt. (1910/11) 34: 70-73. (With
G.W. Wilson)

OLIVE. DISEASES.

Bioletti, F.T. (1898) Calif. Rpt. 1895/96-1896/97: 234-236.

----- 1899. Calif. Bul. 123: 17-20.

Hayne, A.P. 1900. Calif. Bul. 129: 15-17. (With E.W. Hilgard)

Smith, R.E. 1911. Calif. Bul. 218: 1132-1133. (With E.H.
Smith)

See also FRUIT AND FRUIT TREES. DISEASES.

Cycloconium oleaginum.

Hayne, A.P. Calif. Rpt. 1892/94: 297-298.

Dry rot: See OLIVE. DISEASES (Smith, R.E. 1911)

Knot. Bacterium savastanoi (Bacillus oleae)

Bioletti, F.T. 1898. Calif. Bul. 120. 11 p.

Leaf spot. See OLIVE. DISEASES. Cycloconium oleaginum.

Scald.

Lawrence, W.H. 1915. Ariz. Ann. Rpt. (1914/15) 26: 549-552.
(With S.B. Johnson)

Tuberculosis. Bacterium savastanoi. See OLIVE. DISEASES. Knot.

ONION. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Anderson, P.J. 1925. Jour. Agr. Res. 31: 275-286. (Mass.-11)

ONION. DISEASES.

Chapman, G.H. (1910) Mass. Rpt. (1909,pt.I) 22: 164-167.

Edgerton, C.W. 1921c. La. Bul. 182. 20 p.

Thaxter, R. (1920) Conn. Rpt. (1889) [13]: 129-167.

Van Pelt, W. 1919. Ohio Month. Bul. 4: 70-76.

See also TRUCK CROPS. DISEASES.

Bacterial.

Stewart, F.C. 1899b. N.Y.(Geneva) Bul. 164: 209-212.

Black mold. *Aspergillus niger*. See ONION. DISEASES. Storage and transportation rots.

Black spot. See ONION. DISEASES. *Volutella circinans*.

Black stalk rot. *Macrosporium parasiticum*. See ONION. DISEASES (Edgerton, C.W. 1921c)

Blight. See ONION. DISEASES. Downy mildew.

Brittle. See ONION. DISEASES. *Fusarium*.

Cleistothecopsis circinans. See ONION. DISEASES. *Volutella circinans*.

Downy mildew. *Peronospora schleideni* (*P.schleideniana*)

Dudley, W.R. 1889. N.Y.(Cornell) Bul. 15: 193-195.

Jones, L.R. (1896-97) Vt. Rpt. (1895) 9: 113-115; (1896/97) 10: 61-62.

Trelease, W. 1884a. Wis. Rpt. (1883) 1: 38-44.

Whetzel, H.H. 1904. N.Y.(Cornell) Bul. 218. p.135-161.

Fusarium.

Clinton, G.P. (1906-07) Conn. Rpt. (1905) 29: 270-273; (1906) 30: 332-335.

Mold. *Peronospora schleideni*. See ONION. DISEASES. Downy Mildew.

Neck rot. *Botrytis alii*.

Humbert, J.G. 1916b. Ohio Month. Bul. 1: 176-180.

Munn, M.T. 1917. N.Y.(Geneva) Bul. 437. p.363-455.

Pink root. *Fusarium malli*.

Taubenhaus, J.J. 1921. Tex. Bul. 273. 43 p. (With F.W. Mally).

Root rot. See ONION. DISEASES (Edgerton, C.W. 1921c)

Smut. *Urocystis cepulae*.

Anderson, P.J. 1921a. Mass. Tech. Bul. 4. p.99-133.

----- 1924. Mass. Bul. 221. 22 p. (With A.V. Osmun)

----- 1925. Jour. Agr. Res. 31: 275-286. (Mass.-11)

Pammel, L.H. 1912. Iowa Bul. 131: 216-220. (With C.M. King)

Selby, A.D. 1900b. Ohio Bul. 122. p.71-84.

Thaxter, R. 1889. Conn. Bul. 97: 1-2.

Smut. Control.

Barss, H.P. 1921. Oreg. Crop Pest Rpt. (1915/20) 3: 187-191.

Selby, A.D. 1902b. Ohio Bul. 131. p.47-51.

Sirriline, F.A. 1900a. N.Y.(Geneva) Bul. 182. p.145-172.

(With F.C. Stewart)

Stone, G.E. (1909) Mass. Rpt. (1908,pt.I) 21: 48-49.

----- 1915b. Mass. Circ. 52. 4 p.

ONION. DISEASES. (Cont.)

Smut. Control. (Cont.)

Sturgis, W.C. (1896) Conn. Rpt. (1895) 19:1176-182.

Storage and transportation rots. Aspergillus niger.

Van Pelt, W. 1917. Ohio Month. Bul. 2: 152-156.

See also ONION. DISEASES. Neck rot.

Volutella circinans (Cleistotheceopsis circinans)

Stevens, F.L. 1919c. Ill. Bul. 220. p.505-532. (With E.Y. True)

White spot. See ONION. DISEASES (Edgerton, C.W. 1921c)

Oospora scabies. See POTATO. DISEASES. Scab -- SUGAR BEET.

DISEASES: Scab.

OPHIORBOLUS CARICETI.

Rosen, H.R. 1923. Jour. Agr. Res. 25: 351-358. (Ark.-4)
(With J.A. Elliott)

See also CEREALS. DISEASES. Take all.

ORANGE. DISEASES.

Mills, J.W. 1902. Calif. Bul. 138: 39-42.

Smith, R.E. 1911. Calif. Bul. 218: 1133-1148. (With E.H. Smith)

See also CITRUS. DISEASES.

Alternaria citri. See ORANGE. DISEASES. June drop (Coit, J.E. 1918)

Anthracnose. See CITRUS. DISEASES. Anthracnose.

Black rot. *Alternaria citri*. See ORANGE. DISEASES (Smith, R.E. 1911)

Blue mold. Penicillium digitatum.

Woodworth, C.W. 1902. Calif. Bul. 139. 12 p.

Brown rot. See CITRUS. DISEASES. Brown rot.

Brown spot. See ORANGE. DISEASES (Smith, R.E. 1911)

Damping off. See ORANGE. DISEASES (Smith, R.E. 1911)

Die back. See CITRUS. DISEASES. Die back.

Exanthema. See CITRUS. DISEASES. Die back.

Footrot. See ORANGE. DISEASES. *Phytophthora terrestris*.

Gummosis.

Fawcett, H.S. 1915b. Calif. Bul. 262: 159-162.

See also CITRUS. DISEASES. Gummosis.

June drop.

Coit, J.E. 1918. Calif. Bul. 290. p.203-212. (With R.W. Hodgson)

Surr, G.J. 1926. Calif. Bul. 405: 20-21. (With L.D. Batchelor)

Mal di gomma. See ORANGE. DISEASES. *Phytophthora terrestris*.

Mottled leaf. See CITRUS. DISEASES. Mottled leaf -- ORANGE. DISEASES (Smith, R.E. 1911)

Navel rot. *Alternaria citri*. See ORANGE. DISEASES (Smith, R.E. 1911)

Penicillium digitatum. See ORANGE. DISEASES. Blue mold.

Physiological. See ORANGE. DISEASES. June drop -- ORANGE. Mal-nutrition diseases.

ORANGE. DISEASES. (Cont.)

Phytophthora terrestris.

Fawcett, H.S. 1923a. Calif. Bul. 360: 397-400.

Scaly bark. See CITRUS. DISEASES. Scaly bark -- ORANGE. DISEASES.
(Smith, R.E. 1911)

Shoulder spot. See ORANGE. DISEASES (Smith, R.E. 1911)

Sooty mold. See CITRUS. DISEASES. Sooty mold.

Stem end spot. See ORANGE. DISEASES. (Smith, R.E. 1911)

Storage and transportation rots. See ORANGE. DISEASES. Blue mold.

Tear stain. See CITRUS. DISEASES. Anthracnose.

Trunk rot. *Schizophyllum commune*. See ORANGES. DISEASES (Smith, R.E.
1911)

Wither tip. See CITRUS. DISEASES. Anthracnose.

ORANGE. MALNUTRITION. DISEASES.

Reed, H.S. 1923b. Calif. Tech. Paper 11. 32 p. (With A.R.C.
Haas)

Orchard. Spraying. See SPRAYING; also subhead Control under APPLE --
CHERRY -- FRUIT AND FRUIT TREES -- PEACH -- PEAR.

Orchids. Diseases. See ORNAMENTAL PLANTS. DISEASES (Halsted, B.D.
(1894))

ORNAMENTAL PLANTS. DISEASES.

Babcock, D.C. 1917a. Ohio Month. Bul. 2: 323-328.

Clinton, G.P. 1924b. Conn. Bul. 263: 171-192.

Cook, M.T. 1918a. N.J. Circ. 97. 23 p.

Halsted, B.D. (1891-1904) N.J. Rpt. (1890) 11: 361-363; (1891)
12: 293-304; (1892) 13: 278-303; (1893) 14: 377-421, 430-433;
(1894) 15: 362-394; (1896) 17: 396-400, 410-413; (1897) 18:
334-339; 383-394; (1898) 19: 324-327; (1899) 20: 408-409;
(1900) 21: 461-462; (1901) 22: 421-422, 438-440, 448-449;
(1902) 23: 408-409; (1903) 24: 491-492.

Stone, G.E. (1897) Mass. (Hatch) Rpt. (1896) 9: 59-81. (With
R.E. Smith)

See also ASTER, CHINA -- CALLA LILY -- CARNATION -- CHRYSANTHEMUM --
CLEMATIS -- GLADIOLUS -- HOLLYHOCK -- IVY -- LARKSPUR -- LILY --
NASTURTIUM -- PELARGONIUM -- PERIWINKLE -- ROSE -- SNAPDRAGON --
SUNFLOWER -- TULIP -- VIOLET.

Sclerotium rolfsii.

Peltier, G.L. 1916b. Ill Circ. 187. 4 p.

Stem rot, Fusarium.

Britton, W.E. 1900. Conn.Rpt. (1899, Pt. III) 23: 236-238.

Ornamental trees. See SHADE TREES.

Overwintering. See WINTERING OVER.

Ozonium auricomum. See ALFAIFA. DISEASES. Root rot. *Ozonium auricomum* -
COTTON. DISEASES. Root rot (Pammel, L.H. 1888, 1890)

Ozonium omnivorum. See COTTON. DISEASES. Root rot.

Paddy. Diseases. See RICE. DISEASES.

Palm (*Kentia*). Diseases. See ORNAMENTAL PLANTS. DISEASES (Halsted, B.D.
(1894))

PARASITISM AND DISEASE RESISTANCE.

- Chapman, G.H. (1903) Mass. Rpt. (1907) 20: 144-150.
Cook, M.T. 1911-12. Del. Bul. 91. 77 p.; Bul. 97. 53 p.
(With J.J. Taubenhaus)
Doddall, L. 1923. Minn. Tech. Bul. 17. 47 p.
Gortner, R.A. 1917-20. Minn. Rpt. (1915/16) 24: 35-37;
(1916/17) 25: 37-38; (1917/18) 26: 40-41; (1918/19) 27:
34-35; (1919/20) 28: 27-29.
Nixon, E.L. 1927. Penn. Bul. 212. 16 p.
Peltier, G.L. 1922-25. Nebr. Res. Bul. 22. 15 p.; Bul. 25.
52 p.; Bul. 34; 12 p.; Bul. 35. 11 p.
----- 1924b. Jour. Agr. Res. 28: 227-239. (Ala.-9 In
cooperation with Bur. of plant indus.) (With W.J. Frederick)
Riker, A.J. 1923a. Jour. Agr. Res. 25: 119-132. (Wis.-22)
----- 1923b. Jour. Agr. Res. 26: 425-436. (Wis.-25)
Rosen, H.R. 1923. Jour. Agr. Res. 25: 351-358. (Ark.-4)
(With J.A. Elliott)
Stakman, E.C. 1915a. Jour. Agr. Res. 4: 193-200. (Minn.-4)
See also DISEASED PLANTS. Physiological reactions -- INJECTING
SOLUTIONS IN PLANTS -- PLANT DISEASES. Immunity phenomena.
Pasture grass. Diseases. See GRASSES AND FORAGE PLANTS. DISEASES.
PASPALUM DILITATUM. DISEASES.

Claviceps paspali.

- Brown, H.B. 1915. Miss. Tech. Bul. 6: 5-16. (With E.M.
Ranck)

Pathology, Plant See PLANT PATHOLOGY.

PEA. DISEASES.

- Cook, M.T. 1917d. N.J. Circ. 84. 8 p.
----- 1922. N.J. Circ. 142. 8 p.
Halsted, B.D. (1894) N.J. Rpt. (1893) 14: 357-362.
Jones, F.R. 1925. Wis. Res. Bul. 64. 31 p. (With M.B.
Linford)

Anthracnose. *Colletotrichum pisi*. See PEA. DISEASES (Jones, F.R.
1925)

Aphanomyces euteiches. See PEA. DISEASES. Root rot. *Aphanomyces
euteiches*.

Ascochyta pisi.

- Powell, G.H. 1898. Del. Bul. 41: 8-11.
Van Hook, J.M. 1906. Ohio Bul. 173. p.231-249.

Bacterial. Bacillus radicolica.

- Frucha, M.J. 1915. N.Y. (Cornell) Mem. 5. 83 p.

Bacteriosis. Pseudomonas pisi.

- Sackett, W.G. 1916. Colo. Bul. 218. 43 p.

Blight. See PEA. DISEASES. *Ascochyta pisi*.

Fusarium.

- Moore, W.D. (1923) N.J. Rpt. (1921/22) 43: 572-573.
Leaf and podspot. See PEA. DISEASES. *Ascochyta pisi*.
Leafblotch. *Septoria pisi*. See PEA. DISEASES (Jones; F.R. 1925)
Mosaic. See PEA. DISEASES (Jones, F.R. 1925)
Powdery mildew. Erysiphe polygoni (E.communis)
Crawford, R.F. 1927. N.Mex. Bul. 163. 13 p.
Van Hook, J.M. 1906. Ohio Bul. 173. p.231-249.

PEA. DISEASES. (Cont.)

Pythium. See PEA. DISEASES (Jones, F.R. 1925)

Root and stem rot. See PEA. DISEASES. Fusarium.

Root rot.

Haensler, C.M. (1924-27) N.J. Rpt. (1922/23) 44: 366-375;
(1923/24) 45: 403-414.

Root rot. Aphanomyces euteiches.

Haensler, C.M. (1926) N.J. Rpt. (1925/26):46: 467-434;
(1925/26) 47: 334-339.

Jones, F.R. 1925. Wis. Res. Bul. 64. 30 p. (With M.B.
Linford)

Root rot. Corticium vagum (Rhizoctonia solani)

Paddock, W. 1902. Colo. Bul. 69: 14-17.

Richards, B.L. 1923b. Jour. Agr. Res. 25: 431-450. (Utah-18)

Sun scald. See PEA. DISEASES. Ascochyta pisi.

Wilt. See PEA. DISEASES (Jones, F.R. 1925)

PEACH. DISEASES.

Anderson, H.W. 1920b. Ill. Circ. 241: 87-100.

Elliott, J.A. 1918b. Ark. Bul. 149. 9 p.

Hesler, L.R. 1926. Ohio Bi-month. Bul. 11: 110-114.

Johnson, W.G. 1896. Md. Bul. 42: 152-153, 157-162.

Selby, A.D. 1898a. Ohio Bul. 92. p.79-268.

----- 1899a. Ohio Bul. 104. p.201-216.

Taft, L.R. 1894a. Mich. Bul. 103/106: 38-58.

Whitmarsh, R.D. 1911. Mass. Rpt. (1910, pt. I) 23: 161-176.

Young, H.C. 1924b. Ohio Month. Bul. 9: 131-136. (With L.R.
Hesler)

See also FRUIT AND FRUIT TREES. DISEASES.

Control.

Blake, M.A. 1911a. N.J. Bul. 236. 30 p. (With A.J. Farley)

Britton, W.E. 1922. Conn. Bul. 235. p.209-226. (With M.P.
Zappe and E.M. Stoddard)

Clinton, G.P. 1911. Conn. Rpt. (1909/10, Pt. VII) 33/34: 583-618.
(With W.E. Britton)

Farley, A.J. 1926. N.J. Rpt. (1924/25) 46: 114-127.

Fromme, F.D. 1919a. Va. Bul. 223. 16 p. (With G.S. Ralston)

----- 1921a. Va. Bul. 224. 12 p. (With G.S. Palston
and J.F. Eheart)

McClintock, J.A. 1921. Ga. Bul. 139. 30 p.

Schneiderhan, F.J. 1925. Va. Bul. 239. 16 p. (With R.H.
Hunt)

Snapp, O.I. 1920. Miss. Bul. 195. 8 p. (With L. Pierce)

Starnes, H.W. 1898. Ga. Bul. 43: 220-226, 243-250a.

Stuckey, H.P. 1919. Ga. Bul. 135. p.89-101. (With
B.B. Higgins)

Townsend, C.C. 1901a. Md. Bul. 71. p.115-127. (With H.P.
Gould)

Zappe, M.P. 1923. Conn. Bul. 245. p.229-243. (With E.M.
Stoddard)

Bacterial shot hole. See PEACH. DISEASES. Bacterium pruni.

Bacteriosis. See PEACH. DISEASES. Bacterium pruni.

PEACH. DISEASES. (Cont.)

Bacterium pruni.

Higgins, B.B. 1926. Ga. Circ. 79. 8 p.

Bacterium tumefaciens. See PEACH. DISEASES. Crown gall.

Black knot. Plowrightia morbosa.

Selby, A. D. 1896a. Ohio Bul. 72. p.193-220.

See also FRUIT AND FRUIT TREES. DISEASES. Black knot.

Black spot. See PEACH. DISEASES. Bacterium pruni.

Blight. See PEACH. DISEASES. California blight.

Brown rot. Sclerotinia cinerea (S. fructigena; Monilia fructigena)

Blake, M.A. 1908. N.J. Rpt. (1907) 28: 126-129.

Chester, F.D. (1892) Del. Rpt. (1891) 4: 47-53.

Eustace, H.J. 1908. N.Y.(Geneva) Bul. 297: 42-43.

Fant, G.W. (1923) N.J. Rpt. (1921/22) 43: 547-548.

Jehle, R.A. 1914. N.Y. (Cornell) Circ. 26. p.53-64.

Brown rot. Control.

Chester, F.D. 1892b. Del. Bul. 19. 16 p.

----- 1895. Del. Bul. 29. 24 p.

----- 1897. Del. Bul. 34. 22 p.

Dutton, W.C. 1921. Mich. Quart. Bul. 4: 53-55.

McCue, C.A. 1909. Del. Bul. 85. 12 p.

Newman, C.C. 1902. S.C. Bul. 69. 12 p.

Thomas, R.C. 1921a. Ohio Month. Bul. 6: 26-30.

California blight. Coryneum beyerinckii.

Smith, R.E. 1907c. Calif. Bul. 191. p.74-98.

Canker. See PEACH. DISEASES. Brown rot -- PEACH. WEATHER INJURIES
(Jehle, R.A. 1914)

Cladosporium carpophilum. See PEACH. DISEASES. Scab.

Crown gall. Bacterium tumefaciens.

Reddick, D. 1924. N.Y.(Cornell) Mem. 73. 19 p. (With V.B.
Stewart)

Die back. Valsa leucostoma. See PEACH. DISEASES.(Elliott, J.A. .
1918b)

Exoascus deformans. See PEACH. DISEASES. Leaf curl.

Frost canker. See PEACH. WEATHER INJURIES.

Fruit spot. See PEACH. DISEASES. Scab.

Gummosis.

Arthur, J.C. (1885) N.Y.(Geneva) Rpt. (1883) 3: 375-379.

June drop.

Blake, M.A. 1926. N.J. Rpt. (1922/23) 46: 104-107.

Leaf curl. Exoascus deformans.

Brooks, C. (1908) N.H. Rpt. (1906/08) 19/20: 376-382.

Duggar, B.M. 1899b. N.Y.(Cornell) Bul. 164. p.367-388.

Farley, A.J. 1914. N.J. Circ. 29. 2 p.

Wallace, E. 1910a. N.Y.(Cornell) Bul. 276. p.155-178.

(With H.H. Whetzel)

Leaf Curl. Control.

Barss, H.P. 1921. Oreg. Crop Pest Rpt. (1915/20) 3: 145-151.

Henderson, L.F. 1902. Idaho Bul. 31. p.55-67.

Murrill, W.A. 1900. N.Y.(Cornell) Bul. 180. p.319-334.

Reddick, D. 1915b. N.Y.(Cornell) Circ. 31. p.65-73. (With

L.A. Toan)

PEACH. DISEASES. (Cont.)

Leaf curl. Control. (Cont.)

Selby, A.D. 1904a. Ohio Bul. 148. p.55-67.

Little peach.

Blake, M.A. 1910. N.J. Bul. 226. 26 p.

----- 1921. N.J. Bul. 356. 62 p. With M.T. Cook and
C.H. Conners)

Monilia fructigena. See PEACH. DISEASES. Brown rot.

Plowrightia morbosa. See PEACH. DISEASES. Black knot.

Powdery mildew. *Sphaerotheca pannosa* (*Oidium leucoconium*)

Whipple, O.E. 1906. Colo. Bul. 107. 7 p.

Rosette.

Whitten, J.C. 1897b. Mo. Circ. Inform. 4. 6 p.

Rot. See PEACH. DISEASES. Brown rot.

Scab. *Cladosporium carpophilum*.

Arthur, J.C. 1889a. Ind. Bul. 19. 10 p.

Chester, F.D. (1896) Del. Rpt. (1895/96) 8: 60-63.

Cordley, A.B. 1909. Oreg. Bul. 106. 15 p. (With C.C. Cate)

Selby, A.D. 1904a. Ohio Bul. 148. p.55-67.

Sturgis, W.C. (1895) Conn. Rpt. (1894) 18: 138-139.

----- (1897) Conn. Rpt. (1896) 20: 269-271.

Thomas, H.E. 1917b. Va. Rpt. 1914-15/1915-16: 184-186.

Sclerotinia cinerea. See PEACH. DISEASES. Brown rot.

Sphaerotheca pannosa. See PEACH. DISEASES. Powdery mildew.

Storage and transportation rots. See PEACH. DISEASES. Brown rot.

Sun scald. See PEACH. DISEASES (Elliott, J.A. 1918b)

Twig blight. See PEACH. DISEASES. Brown rot.

Verticillium albo-atrum.

Haenseler, C.M.. (1924) N.J. Rpt. (1922/23) 44: 364-366.

Wilt. See PEACH. DISEASES. *Verticillium albo-atrum*.

Yellows.

Bailey, L.H. 1894a. N.Y.(Cornell) Bul. 75. p.389-408.

Blake, M.A. 1910. N.J. Bul. 226. 26 p.

----- 1921. N.J. Bul. 356. 62 p. (With M.T. Cook and
C.H. Conners)

Brooks, C. (1908) N.H. Rpt. (1906/08) 19/20: 376-382.

Clinton, G.P. (1909) Conn. Rpt. (1908) 32: 872-878.

Maynard, S.T. 1890. Mass.(Hatch) Bul. 8: 6-12.

Selby, A.D. 1896a. Ohio Bul. 72. p.193-220.

Whitten, J.C. 1897b. Mo. Circ. Inform. 4. 6 p.

PEACH. SPRAY INJURY.

Bain, S.M. 1895. Tenn. Bul. 8: 35-40.

Bennett, C.W. 1926. Mich. Quart. Bul. 8: 183-185.

Groth, B.H.A. 1910b. N.J. Bul. 233. 19 p.

Haenseler, C.M. (1927) N.J. Rpt. (1925/26) 47: 339-346.

Hesler, L.R. 1926. Ohio Bi-month. Bul. 11: 110-114.

Sturgis, W.C. (1901) Conn. Rpt. (1900) 24: 219-254.

PEACH. WEATHER INJURIES.

Chandler, W.H. 1907. Mo. Bul. 74. 47 p.

Green, W.J. 1904. Ohio Bul. 157. p.115-134. (With F.H.
Ballou)

PEACH. WEATHER INJURIES. (Cont.)

- Gunderson, A.J. 1919a. Ill. Bul. 218. p.381-394.
Jehle, R.A. 1914. N.Y.(Cornell) Circ. 26. p.53-64.
Whitten, J.C. 1897a. Mo. Bul. 38: 140-159.

PEANUT. DISEASES.

- Wolf, F.A. 1914a. Ala. Bul. 180. p.127-150.

Bacterial. Bacterium solanacearum.

- Fulton, H.R. (1915) N.C. Rpt. (1912-13/1913-14) 36/37: 43-47.

Brown rot. See PEANUT. DISEASES. Bacterial.

Leaf spot. Cercospora personata.

- Wolf, F.A. 1916b. Jour. Agr. Res. 5: 891-902. (Ala.-1)

Red rot. Neocosmospora vasinfecta. See PEANUT. DISEASES.

Wilt. Sclerotium rolfsii.

- McClintock, J.A. 1917. Jour. Agr. Res. 8: 441-448. (Va.-2)

PEAR. DISEASE RESISTANCE AND RESISTANT VARIETIES.

- Alwood, W.B. 1920b. Va. Bul. 135. p.49-66.
Hansen, N.E. 1915. S.Dak. Bul. 159: 187-191.
Reimer, F.C. 1925. Oreg. Bul. 214. 99 p.
Woodroof, J.G. 1923. Ga. Bul. 142: 99-102.

PEAR. DISEASES.

- Anderson, H.W. 1920b. Ill. Circ. 241: 74-82.
Duggar, B.M. 1898. N.Y.(Cornell) Bul. 145. p.593-627.
Kinney, L.F. (1895) R.I. Rpt. (1894) 7: 184-198.
Martin, G.W. 1915b. N.J. Circ. 52. 12 p.
Stevens, F.L. 1910a. N.C. Bul. 206: 87-123.
Tukey, H.B. 1922. N.Y.(Geneva) Bul. 495: 11-15.

See also FRUIT AND FRUIT TREES. DISEASES.

Control.

- Haenseler, C.M. (1922) N.J. Rpt. (1920/21) 42: 473-474.
Lamson, H.H. 1894a. N.H. Bul. 19. 13 p.
Woodworth, C.W. 1894. Calif. Rpt. 1892/94: 441-461.

Bacillus amylovorus. See PEAR. DISEASES. Fire blight.

Bacterium tumefaciens. See PEAR. DISEASES (Anderson, H.W. 1920b)

Bitter rot. Glomerella cingulata. See PEAR. DISEASES (Anderson, H.W. 1920b)

Black rot. Physalospora cydoniae (Sphaeropsis malorum)

- Chester, F.S. 1901. Del. Bul. 52. 8 p.

Black spot. See PEAR. DISEASES. Canker (Frank, A. 1916)

Blight. See PEAR. DISEASES. Fire blight.

Blossom blight. Botrytis cinerea.

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PLUM. DISEASES.

Anderson, H.W. 1920b. Ill. Circ. 241: 100-108.

Crandall, C.S. 1898b. Colo. Bul. 50: 28-31.

Hendrick, U.P. 1897. Oreg. Bul. 45: 63-75.

Starnes, H.N. 1904. Ga. Bul. 67: 255-261.

Taft, L.R. 1894a. Mich. Bul. 103/106: 38-58.

Whitmarsh, R.D. 1911. Mass. Rpt. (1910, pt. I) 23: 161-176.

See also FRUIT AND FRUIT TREES. DISEASES -- PRUNUS. DISEASES.

Control.

Alwood, W.B. 1902a. Va. Bul. 134: 31-40. (With H.L. Price)

Townsend, C.O. 1901a. Md. Bul. 71. p.115-127. (With H.P. Gould)

Bacillus amylovorus. See PLUM. DISEASES. Fire blight.

Bacterial shot hole. See PLUM. DISEASES (Anderson, H.W. 1920b)

PLUM. DISEASES. (Cont.)

Black knot. *Plowrightia morbosa*.

- Beach, S.A. 1892a. N.Y.(Geneva) Bul. 40. p.25-34.
Butz, G.C. 1890. Penn. Bul. 13: 3-4.
Halsted, B.D. 1891a. N.J. Bul. 78. 14 p.
Humphrey, J.E. 1889. Mass.(Hatch) Bul. 6: 9-19.
----- (1891-93) Mass. Rpt. (1890) 8: 200-210; (1892) 10:
235-238.
Lodeman, E.G. 1895a. N.Y.(Cornell) Bul. 81. p.633-655.
Walton, R.C. 1918a. Ohio Month. Bul. 3: 36-38.
Watts, R.L. 1891. Tenn. Bul. 4: 26-28.

Brown rot. *Sclerotinia cinerea* (*Monilia fructigena*)

- Newman, C.C. 1902. S.C. Bul. 69. 12 p.
Valleau, W.D. 1915. Jour. Agr. Res. 5: 365-396. (Minn.-7)

Brown rot. Control.

- Bailey, F.D. (1915) Oreg. Crop Pest Rpt. (1913/14) 2:241-244.
Dutton, W.C. 1921. Mich. Quart. Bul. 4: 53-55.
Garman, H. 1893b. Ky. Bul. 47: 53-55.

Canker. See PLUM. DISEASES. Physiological.

Coccomyces. See PLUM. DISEASES. Leaf spot. Coccomyces.

Crown gall.

- Starnes, H.N. 1905. Ga. Bul. 68: 22-25.

Cylindrosporium padi. See PLUM. DISEASES. Leaf spot. *Cylindrosporium padi*.

Exoascus deformans. See PLUM. DISEASES. Pockets.

Exoascus mirabilis. See PLUM. DISEASES. Leaf curl.

Exoascus pruni. See PLUM. DISEASES. Pockets.

Fire blight. *Bacillus amylovorus*.

- Sturgis, W.C. (1895) Conn. Rpt. (1894) 18: 117-118.
See also FRUIT AND FRUIT TREES. DISEASES. Fire blight.

Lasiodiplodia triflorae. See PLUM. DISEASES. Wilt.

Leaf curl. *Exoascus mirabilis*.

- Sturgis, W.C. (1896) Conn. Rpt. (1895) 19: 183-185.

Leaf spot. Coccomyces.

- Keitt, G.W. 1918b. Jour. Agr. Res. 13: 539-569. (Wis.-12)

Leaf spot. *Cylindrosporium padi*.

- Barss, H.P. 1921. Oreg. Crop Pest Rpt. (1915/20) 3: 156-158.
Beach, S.A. 1896. N.Y.(Geneva) Bul. n.s. 98. p.1-17.
----- 1897b. N.Y.(Geneva) Bul. 117. p.133-141.
Stewart, V.B. 1914. N.Y.(Cornell) Circ. 21. p.1-10.

Leaf spot. *Septoria cerasina*.

- Arthur, J.C. (1887-88) N.Y. Rpt. (1886) 5: 276-281; (1887) 6:
347-348.

Monilia fructigena. See PLUM. DISEASES. Brown rot.

Physiological.

- Waugh, F.A. 1901. Vt. Rpt. (1899/1900) 13: 370-373.

Plowrightia morbosa. See PLUM. DISEASES. Black knot.

Pockets. *Exoascus* (*Taphrina*)

- Atkinson, G.F. 1894. N.Y.(Cornell) Bul. 73. p.317-355.
Swingle, D.B. 1918b. Mont. Bul. 123. p. 165-188. (With H.E.
Morris)

PLUM. DISEASES. (Cont.)

Rust. *Puccinia pruni-spinosae*. See PLUM. DISEASES (Anderson, H.W. 1920b)

Scald.

Chester, F.D. 1902. Del. Bul. 57: 13-15.

Sclerotinia cinerea. See PLUM. DISEASES. Brown rot.

Septoria cerasina. See PLUM. DISEASES. Leaf spot. *Septoria cerasina*.

Taphrina communis. See PLUM. DISEASES. Pockets (Swingle, D.B. 1918b)

Wilt, *Lasiodiplodia triflorae*.

Higgins, B.B. 1916a. Ga. Bul. 118. 29 p.

Starnes, H.N. 1905. Ga. Bul. 68: 22-25.

Yellow leaf disease. See PLUM. DISEASES. Leaf spot. *Cylindrosporium padi*.

PLUM. SPRAY INJURY.

Cloyer, W.O. 1926. N.Y.(Geneva) Bul. 540. 18 p.

Polythrincium trifolii. See CLOVER. DISEASES (Halsted, B.D. (1898))

POMEGRANATE. DISEASES.

Hodgson, R.W. 1917. Calif. Bul. 276: 189-190.

Heart rot. *Sterigmatocystis castanea*. See POMEGRANATE. DISEASES.

Physiological. See POMEGRANATE. DISEASES.

POMELO. DISEASES.

See also CITRUS. DISEASES.

Anthracnose. *Colletotrichum gloeosporioides*

Hume, H.H. 1904a. Fla. Bul. 74. p.157-172.

POPLAR. DISEASES.

See also SHADE TREES. DISEASES AND INJURIES -- TREES. DISEASES.

Blight. *Marssonina populi*.

Halsted, B.D. (1895) N.J. Rpt. (1894) 15: 394-396.

Canker. *Cytospora chrysosperma*.

Brown, J.G. 1922a. Ariz. Timely Hints 138. 4 p.

Fomes megaloma (*Elfvincia megaloma*)

Heald, F.D. 1906c. Nebr. Rpt. (1905) 19: 92-100.

Yellows.

Blankinship, J.W. 1904. Mont. Rpt. (1903/04) 11: 220.

Poria incrassata. See WOOD DESTROYING FUNGI (Edgerton, C.W. 1924a)

POTATO. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Adams, G.E. 1906. R.I. Bul. 111: 68-74.

Jones, L.R. (1905) Vt. Rpt. (1904/05) 18: 264-267.

Lutman, B.F. 1919b. Vt. Bul. 215. 30 p.

Stuart, W. 1905-06. Vt. Bul. 115. p.133-140; Bul. 122.

p.105-136.

----- 1914. Vt. Bul. 179. p.145-183.

Woods, C.D. 1909. Maine Bul. 167: 92-96. (With J.M. Bartlett)

POTATO. DISEASES.

Babcock, D.C. 1917b. Ohio Bul. 319. p.119-136.

Bailey, F.D. (1915) Oreg. Crop Pest Rpt. (1913/14) 2: 245-260.

Brisby, G.R. 1920a. Minn. Bul. 190. 44 p. (With A.G. Tolaas)

Brown, B.A. 1925. Conn. (Storrs) Bul. 126: 27-30. (With W.L. Slate)

POTATO. DISEASES. (Cont.)

- Champlin, M. 1917. S. Dak. Bul. 176: 732-739, 751-755. (With G. Winright)
- Chester, F.D. (1892) Del. Rpt. (1891) 4: 53-60.
- Clinton, G.P. 1895. Ill. Bul. 40: 136-145.
- Cook, M.T. 1919. N.J. Circ. 105. 33 p.
----- 1921b. N.J. Circ. 122. 39 p. (With W.H. Martin)
- Coons, G.H. 1914. Mich. Spec. Bul. 66. 31 p.
----- 1918c. Mich. Spec. Bul. 85. 49 p.
----- 1923d. Mich. Spec. Bul. 125. 55 p. (With J.E. Kotila)
- Evans, A.T. 1922. S. Dak. Bul. 196: 396-406. (With G. Janssen and M. Fowlds)
- Fitch, C.L. 1910. Colo. Bul. 175: 36-42. (With E.R. Bennett)
- Frank, A. 1920-21. Wash. (West.) Month. Bul. 8: 124-126, 140-142, 160-163.
- Gardner, J.S. 1924. Ky. Circ. 34: 40-52. (With C.W. Mathews)
- Garman, H. 1896. Ky. Bul. 61: 14-35.
- Giddings, N.Y. 1917. W.Va. Bul. 165. 24 p.
- Goss, R.W. 1923a. Nebr. Bul. 186. 32 p.
- Gratz, L.O. 1925b. Fla. Bul. 176. 23 p.
- Green, S.B. 1895a. Minn. Bul. 39: 203-213, 217-222, 230-231.
- Heald, F.D. 1917. Wash. Pop. Bul. 106: 15-94.
- Hills, J.L. 1908. Vt. Rpt. (1906/07) 20: 389-417.
- Hume, H.H. 1904b. Fla. Bul. 75. p.177-196.
- Jackson, H.S. 1917b. Ind. Circ. 71. 16 p. (With G.A. Osner)
- Jones, L.R. 1892. Vt. Bul. 28. p.13-36.
----- 1899. Vt. Bul. 72. p.1-32.
- Lawrence, W.H. 1912c. Wash. Bul. 7(Spec.ser.): 65-69, 95-102.
- Lodeman, E.G. 1896. N.Y.(Cornell) Bul. 113. p.245-293.
- Lutman, B.F. 1911. Vt. Bul. 159. p.213-296.
- McKay, M.B. 1922. Oreg. Circ. 24. 53 p.
- Morse, W.J. 1907b. Maine Bul. 149. p.285-330.
----- 1916d. Maine [Pub.] 531. 20 p.
- Nelson, A. 1907. Wyo. Bul. 71. 39 p.
- Norton, J.B.S. 1906. Md. Bul. 108. p.63-72.
- Orton, C.R. 1916b. Penn. Bul. 140. 37 p.
- Quinn, J.T. 1926. Mo. Bul. 240: 16-23.
- Rees, H.L. 1913c. Wash. (West.) Month. Bul. 1(6): 9-16; 1(7): 14-16.
- Rosa, J.T. 1925b. Calif. Circ. 287: 29-42.
- Sandster, E.P. 1927. Colo. Bul. 314: 23-30.
- Scribner, F.L. 1889. Tenn. Bul. v.2, no.2. p.27-43.
- Stakman, E.C. 1916b. Minn. Bul. 158. 47 p. (With A.G. Tolaas)
- Starnes, H.N. 1895b. Ga. Bul. 29: 310-318.
- Stewart, F.C. 1896b. N.Y.(Geneva) Bul. n.s. 101. p.69-86.
----- 1897c. N.Y.(Geneva)Bul. 138. p.625-644.
- Stewart, G. 1925. Utah Circ. 58: 25-30.
- Temple, C.E. 1914. Idaho Bul. 79: 40-67.
- Tilford, P.E. 1924. Ohio Month. Bul. 9: 85-87.
- Weber, G.F. 1923. Fla. Bul. 169. p.103-163.

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- Babcock, D.C. 1916a. Ohio Month. Bul. 1: 10-14.
Bennett, E.R. 1906. Conn. (Storrs) Bul. 41. p.48-65.
Bisby, G.R. 1920b. Minn. Bul. 192. 32 p: (With A.G. Tolaas)
Boyd, O.C. 1926. N.Y.(Cornell) Bul. 451. 68 p.
Brown, J.G. 1922b. Ariz. Timely Hints 136. 4 p.
Clinton, G.P. (1911) Conn. Rpt. (1910) 33/34: 739-752.
----- (1916) Conn. Rpt. (1915) 39: 470-487.
Folsom, D. 1926c. Maine Bul. 334. p.205-284. (With R. Bonde)
Green, S.B. 1895b. Minn. Bul. 45: 307-312.
Halsted, B.D. 1900. N.J. Spec. Bul. S. 43 p.
Huckett, H.C. 1927. N.Y.(Geneva) Circ. 90. 10 p.
Jones, L.R. 1893. Vt. Bul. 40. p.17-32.
----- (1893-1903) Vt. Rpt. (1892) 6: 57-72; (1893) 7: 41-
60; (1894) 8: 92-108; (1895) 9: 66-102; (1896/97) 10: 45-55;
(1897/98) 11: 190-195; (1898/99) 12: 151-156; (1899/1900) 13:
268-291; (1900/01) 14: 227-235; (1901/02) 15: 208-230; (1902/03)
16: 155-168; (1903/04) 17: 386-402; (1904/05) 18: 272-291;
(1905/06) 19: 265-269; (1906/07) 20: 334-342. (1898-99 with
W.R. Orton; 1901 with A.W. Edson; 1902-06 with W.J. Morse;
1907-08 with W.J. Giddings)
----- 1895. Vt. Bul. 44. p.79-102.
----- 1909a. Vt. Bul. 142. p.101-115. (With N.J.
Giddings)
----- 1914. Wis. Circ. 52. 19 p.
Jordan, W.H. 1905. N.Y.(Geneva) Bul. 267. p.263-284. (With
F.C. Stewart and H.J. Eustace)
Kohler, A.R. 1909. Minn. Bul. 114: 324-332, 356-362.
Kotila, J.E. 1925b. Mich. Tech. Bul. 72. 15 p. (With G.H.
Coons)
Lamson, H.H. 1897. N.H. Bul. 45. p.43-56.
----- 1899. N.H. Bul. 65. p.99-108.
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604-617.
Lutman, B.F. 1910. Vt. Bul. 153. p.617-629.
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----- 1912a. Vt. Bul. 162. p.33-45.
McMillan, D.L. 1923. Mich. Spec. Bul. 110. p.345-352. (With
G.W. Putnam)
Martin, W.H. (1921-27) N.J. Rpt. (1919/20) 41: 577-587; (1921/22)
43: 574-582, 600; (1922/23) 44: 356-364; (1923/24) 45: 321-389;
(1924/25) 46: 464-467; (1925/26) 47: 324-329. (1927 with
L.G. Campbell)
----- 1923a. N.J. Bul. 383. 32 p.
----- 1923c. N.J. Circ. 146. 32 p.
Milward, J.G. 1907b. Wis. Rpt. (1906/07) 24: 351-354.

POTATO. DISEASES. (Cont.)

Control. (Cont.)

- Moore, H.C. 1927a. Mich. Quart. Bul. 9: 131-153.
Morse, W.J. 1907b. Maine Bul. 149. p.285-330.
Munn, M.T. 1912-16. N.Y.(Geneva) Bul. 352. p.319-326; Bul. 397. p.95-105; Bul. 421. p.311-317.
Rees, H.L. 1915e. Wash.(West.) Month. Bul. 3(5): 8-11.
Rosa, J.T. 1923a. Mo. Bul. 198. 8 p.
Stewart, F.C. 1897a. N.Y.(Geneva) Bul. 123. p.233-259.
----- 1902b, 1903b, 1905a, 1906a. N.Y.(Geneva) Bul. 221 p.235-263; Bul. 241. p.251-292; Bul. 264. p.95-204; Bul. 279. p.153-229. (With H.J. Eustace and F.A. Sirrine)
----- 1907. N.Y.(Geneva) Bul. 290. p.237-321. (With H.J.Eustace, G.T. French and F.A. Sirrine)
----- 1908c, 1909. N.Y.(Geneva) Bul. 307. p.439-468; Bul. 311. p.1-38. (With G.T. French and F.A. Sirrine)
----- 1910a. N.Y.(Geneva) Bul. 323. p.17-52. (With G.T. French, S.M. McMurrin and F.A. Sirrine)
----- 1911. N.Y.(Geneva) Bul. 338. p.115-151. (With G.T. French and F.A. Sirrine)
----- 1912a. N.Y.(Geneva) Bul. 347. p.77-84. (With G.T. French)
----- 1912b. N.Y.(Geneva) Bul. 349. p.99-139. (With G.T. French and F.A. Sirrine)
----- 1914b, 1915b. N.Y.(Geneva) Bul. 379. p.1-9; Bul. 405. p.335-339.
----- 1924a. N.Y.(Geneva) Bul. 518: 3-29. (With P.J. Parrott)
Stokdyk, E.A. 1924. Kans. Bul. 231. 45 p. (With C.E. Melchers)
Stuckey, H.P. 1916b. Ga. Bul. 123. p.113-124. (With B.B. Higgins)
Tilford, P.E. 1925a. Ohio Month. Bul. 10: 20-22.
----- 1926c. Ohio Bi-month. Bul. 11: 141-144.
Woods, C.D. 1901. Maine Bul. 73. p.47-64.

See also POTATO. SEED TREATMENT AND SELECTION; and subhead Control under specific potato diseases.

Actinomyces chromogenus. See POTATO. DISEASES. Scab.

Actinomyces scabies. See POTATO. DISEASES. Scab.

Alternaria solani. See POTATO. DISEASES. Early blight -- POTATO. DISEASES. Tuber rot.

Armillaria mellea. See POTATO. DISEASES (Coons, G.H. 1923d)

Bacillus atrosepticus. See POTATO. DISEASES. Black leg.

Bacillus phytophthorus. See POTATO. DISEASES. Black leg.

Bacillus solanacearum. See POTATO. DISEASES. Brown rot.

Bacterial. See POTATO. DISEASES. Black leg -- POTATO. DISEASES. Brown rot.

Black heart.

Bennett, J.P. 1924. Calif. Tech. Paper 14. 35 p. (With E.T. Bartholomew)

Coons, G.H. 1924a. Mich. Quart. Bul. 6: 182-184.

Stewart, F.C. 1917. N.Y.(Geneva) Bul. 436. p.321-362. (With A.J. Mix)

POTATO. DISEASES. (Cont.)

Black leg. Bacillus atrosepticus (B. phytophthorus)

Jones, L.R. (1907) Vt. Rpt. (1905/06) 19: 257-265.

Kotila, J.E. 1925a. Mich. Tech. Bul. 67. 29 p. (With G.H. Coons)

Morse, W.J. 1909c. Maine Bul. 174. p.307-328.

----- 1911. Maine Bul. 194. p.199-228.

----- 1917. Jour. Agr. Res. 8: 79-126. (Maine-9)

Rees, H.L. 1913a. Wash.(West.) Month. Bul. 1(1): 16.

Black scurf. See POTATO. DISEASES. Rhizoctonia.

Black stem. See POTATO. DISEASES. Black leg.

Black wart. See POTATO. DISEASES. Wart disease.

Blight. See under POTATO. DISEASES the subheads Brown rot --
Early blight -- Late blight.

Breakdown. See POTATO. DISEASES (Coons, G.H. 1923d)

Brown rot. See Bacillus solanacearum.

Brown rot. Bacillus solanacearum.

Halsted, B.D. (1892) N.J. Rpt. (1891) 12: 267-276.

Brown stem. See POTATO. DISEASES. Rhizoctonia.

Cercospora concors. See POTATO. DISEASES. Leaf blotch.

Chrysophlyctis endobiotica. See POTATO. DISEASES. Wart disease.

Corticium vagum var. solani. See POTATO. DISEASES. Rhizoctonia.

Curly dwarf. See POTATO. DISEASES. Degeneration -- POTATO.
DISEASES. Mosaic.

Degeneration.

Folsom, D. 1924. Maine Bul. 316. 28 p. (With E.S. Schultz)

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Schultz and R. Bonde)

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----- 1925. Nebr. Res. Bul. 29. 32 p. (With G.L.
Peltier)

Sandsten, E.P. 1922. Colo. Bul. 278. 15 p. (With C.M.
Tompkins)

Stewart, F.C. 1916. N.Y.(Geneva) Bul. 422. p.319-357.

Whipple, O.B. 1919. Mont. Bul. 130. 29 p.

See also under POTATO. DISEASES the subheads Leaf roll --

Mosaic -- Spindling sprout -- Spindling tuber.

Downy mildew. See POTATO. DISEASES. Late blight.

Dry rot. See POTATO. DISEASES. Fusarium -- POTATO. DISEASES.
Fusarium trichothecioides.

Early blight. Alternaria solani (Macrosporium solani)

Green, W.J. 1906. Ohio Bul. 174: 277-285. (With C.W. Ward)

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----- (1899). Vt. Rpt. (1896/97) 10: 45-51.

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Rands, R.D. 1917. Wis. Res. Bul. 42. 48 p.

Roberts, I.P. 1897. N.Y.(Cornell) Bul. 140: 392-403. (With
L.A. Clinton)

Sturgis, W.C. (1895) Conn. Rpt. (1894) 18: 127-134.

POTATO. DISEASES. (Cont.)

Early blight. Control.

- Clinton, G.P. 1895. Ill. Bul. 40: 136-145.
Erwin, A.T. 1917. Iowa Bul. 171. p.61-75.
Sandsten, E.P. 1908. Wis. Bul. 168. 27 p. (With J.G. Milward)

Frost necrosis. See POTATO. WEATHER INJURIES (Jones, L.R. 1919)

Fusarium.

- Bisby, G.R. 1919. Minn. Bul. 181. 47 p.
Goss, R.W. 1921. Jour. Agr. Res. 22: 65-79. (Nebr.-3)
McKay, M.B. 1921b. Jour. Agr. Res. 21: 821-848. (Oreg.-6)
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(With G.B. Nutting)
----- 1926a. Mont. Bul. 183. 10 p.
Sherbakoff, C.D. 1915. N.Y.(Cornell) Mem. 6. p.85-270.

Fusarium eumartii.

- Goss, R.W. 1924b. Nebr. Res. Bul. 27. 83 p.

Fusarium oxysporum.

- Goss, R.W. 1923b. Nebr. Res. Bul. 23. 84 p.
Link, G.K.K. 1916. Nebr. Res. Bul. 9. 45 p.
McKay, M.B. 1926a. Oreg. Bul. 221. 23 p.
Manns, T.F. 1911b. Ohio Bul. 229. p.299-336.
Morris, H.E. 1926b. Mont. Bul. 184. 14 p.

Fusarium trichothecioides (F. tuberivorum)

- Link, G.K.K. 1916. Nebr. Res. Bul. 9. 45 p.
Wilcox, E.M. 1912b. Nebr. Res. Bul. 1. 88 p. (With G.K.K. Link and V.W. Pool)
----- 1913. Nebr. Bul. 134. 8 p. (With G.K.K. Link)

Hollow heart. See POTATO. DISEASES. Physiological.

Hopperburn.

- Fenton, F.A. 1923. Iowa Res. Bul. 78: 398-428. (With A. Hartzell)
Kotila, J.E. 1922b. Mich. Tech. Bul. 56. 27 p.
Lutman, B.F. 1919a. Vt. Bul. 214. 28 p.

Hopperburn. Control.

- Erwin, A.T. 1917. Iowa Bul. 171. p.61-75.
Parks, T.H. 1923. Ohio Bul. 368. p.243-258. (With E.E. Clayton)

Internal brown spot.

- Clinton, G.P. (1908) Conn. Rpt. (1907) 31: 355-357.

Late blight. Phytophthora infestans.

- Barrus, M.F. 1913. N.Y.(Cornell) Circ. 19. p.77-83.
Berg, A. 1926. W.Va. Bul. 205. 31 p.
Clinton, G.P. (1905-06) Conn. Rpt. (1904) 28: 363-384; (1905) 29: 304-330.
----- (1911) Conn. Rpt. (1910) 33/34: 753-774.
Erwin, A.T. 1916. Iowa Bul. 163. p.285-306.
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Humphrey, J.E. 1839. Mass.(Hatch) Bul. 6: 17-19.
Jones, L.R. (1891) Vt. Rpt. (1890) 4: 131-138.
----- 1896. Vt. Bul. 49. p.79-100.

POTATO.DISEASES. (Cont.)

Late blight. Phytophthora infestans. (Cont.)

- Jones, L.R. (1893) Vt. Rpt. (1895) 9: 66-88, 93-102.
----- 1912. Vt. Bul. 168. 100 p. (With N.J. Giddings
and B.F. Lutman)
Martin, W.H. 1923b. N.J. Bul. 384. 23 p.
Melhus, I.E. 1915. Wis. Res. Bul. 37. 64 p.
Morse, W.J. 1909b. Maine Bul. 169. p.163-184.
Rees, H.L. 1914a. Wash.(West.) Month. Bul. 1(5): 11-16.
Roberts, I.P. 1897. N.Y. (Cornell) Bul. 140: 392-403. (With
L.A. Clinton)
Stewart, F.C. 1913b. N.Y.(Geneva) Bul. 367. p.357-361.
Weed, C.M. 1889a. Ohio Bul. 13 (v.2,no.6): 157-169.
Woods, C.D. 1905. Maine Bul. 112: 1-12.

Late blight. Control.

- Adams, G.E. 1906. R.I.Bul. 111: 68-74.
Bailey, F.D. (1915) Oreg. Crop Pest Rpt. (1913/14) 2: 257-260.
Beach, S.A. 1892b. N.Y.(Geneva) Bul. n.s. 41: 44-46. (With
L.L. Van Slyke)
----- 1893a. N.Y.(Geneva) n.s. 49. 16 p.
Brodie, D.A. 1901. Wash. Bul. 46. 15 p.
Butler, O. 1925a. N.H. Circ. 24. 4 p.
Clinton, G.P. 1906a. Conn. Bul. Immed. Inform. 2. 4 p.
Gould, H.P. 1896. Maine Bul. 28. 4 p.
Green, S.B. 1893. Minn. Bul. 32: 215-221.
Green, W.J. 1906. Ohio Bul. 174: 283-289. (With C.W. Waid)
Jones, L.R. 1891. Vt. Bul. 24: p.17-52.
Kinney, L.F. 1896. R.I. Bul. 38. p.47-58.
Lamson, H.H. 1894b. N.H. Bul. 22. 8 p.
McCue, C.A. 1906. Mich. Bul. 236. p.129-143.
Sandsten, E.P. 1906. Wis. Bul. 135. 24 p. (With J.G. Milward)
Weed, C.M. 1890. Ohio Bul. (Ser.2) [23] (v.3,no.8): 239-240.

Leaf blotch. Cercospora concors.

- Jones, L.R. (1907) Vt. Rpt. (1905/06) 19: 236-257. (With
C.S. Pomeroy)

Leaf roll.

- Fitch, C.L. Colo. Bul. 216: 28-30.
Folsom, D. 1921. Maine Bul. 297. p.37-52.
Gardner, M.W. 1924a. Ind. Bul. 284. 23 p. (With J.B. Kendrick)
Gilbert, A.H. 1923. Jour. Agr. Res. 25: 255-266. (Vt.-2)
Stewart, F.C. 1924b. N.Y.(Geneva) Bul. 522. 14 p.
Tilford, P.E. 1926b. Ohio Bi-month. Bul. 11: 55-59.

See also POTATO. DISEASES. Degeneration.

Little potato. See POTATO. DISEASES. Rhizoctonia.

Macrosporium solani. See POTATO. DISEASES. Early blight.

Mildew. See POTATO. DISEASES. Late blight.

Mosaic.

- Coons, G.H. 1922a. Mich. Quart. Bul. 4: 135-138. (With J.E.
Kotila)
Edgerton, C.W. 1921b. La. Bul. 181. 15 p. (With G.L. Tiebout)
Folsom, D. 1920. Maine Bul. 292. p.157-184.

POTATO. DISEASES. (Cont.)

Mosaic. (Cont.)

- Folsom, D. 1924. Maine Bul. 316. 28 p. (With E.S. Schultz)
Gilbert, A.H. 1923. Jour. Agr. Res. 25: 255-266. (Vt.-2)
Jehle, R.A. 1926. Md. Bul. 282. p.215-219.
Kotila, J.E. 1923a. Mich. Quart. Bul. 5: 188-189.
Krantz, F.A. 1921. Minn. Bul. 197. 31 p. (With G.R. Bisby)
Patch, E.M. 1921. Maine Bul. 303. p.321-344.
Stewart, F.C. 1924b. N.Y.(Geneva) Bul. 522. 14 p.

See also POTATO. DISEASES. Degeneration.

Net necrosis. See POTATO. DISEASES. Leaf roll.

Oospora scabies. See POTATO. DISEASES. Scab.

Physiological.

- Moore, H.C. 1926. Mich. Quart. Bul. 8: 114-118.
----- 1927b. Mich. Quart. Bul. 9: 137-139.

See also POTATO. DISEASES. Black heart -- POTATO. DISEASES.

Internal brown spot.

Phytophthora infestans. See POTATO. DISEASES. Late blight.

Powdery scab. Spongospora subterranea.

- Clinton, G.P. (1916) Conn. Rpt. (1915) 39: 463-469.
Morse, W.J. 1914b. Maine Bul. 227. p.89-104.

Rhizoctonia (R.solani; Corticium vagum var. solani)

- Bennett, E.R. 1907. Colo. Bul. 117: 16-21.
Dana, B.F. 1925a. Wash. Bul. 191 (Tech.paper) 78 p.
----- 1925b. Wash. Pop. Bul. 131. 30 p.
Morse, W.J. 1914c. Maine Bul. 230. p.193-216. (With
M. Shapovalov)

- Paddock, W. 1904. Colo. Bul. 92. 8 p.
Ramsey, G.B. 1917. Jour. Agr. Res. 9: 421-426. (Maine-10)
Richards, B.L. 1921a. Jour. Agr. Res. 21: 459-482. (Utah-13)
----- 1923a. Jour. Agr. Res. 23: 761-770. (Utah-16)
Rolfs, F.M. 1902. Colo. Bul. 70. 20 p.
----- 1904. Colo. Bul. 91. 32 p.
Selby, A.D. 1903a. Ohio Bul. 139. p.53-66.
----- 1903b. Ohio Bul. 145. p.15-28.

Rhizoctonia. Control.

- Gloyer, W.O. 1913b. N.Y.(Geneva) Bul. 370. p.417-431.
MacMillan, H.G. 1927. Wyo. Bul. 152. p.55-67. (With
A. Christensen)

Raeder, J.M. 1925. Idaho Res. Bul. 4. 37 p. (With C.W.
Hungerford and N. Chapman)

See also RHIZOCTONIA DISEASES.

Rosette. See POTATO. DISEASES. Rhizoctonia.

Rot. See under POTATO. DISEASES. the subheads Brown rot -- Late blight -- Storage and transportation rots.

Running out. See under POTATO. DISEASES the subheads Degeneration -- Mosaic -- Spindling tuber.

Scab. Actinomyces scabies (A. chromogenus; Oospora scabies)

- Arthur, J.C. (1888) N.Y.(Geneva) Rpt. (1887) 6: 344-347.
Bolley, H.L. 1891b. N.Dak. Bul. 41. 31 p.
Coons, G.H. 1921b. Mich. Quart. Bul. 3: 132-134.

POTATO. DISEASES. (Cont.)

Scab. Actinomyces scabies (A. chromogenus; Oospora scabies) (Cont.)

- Fellows, H. 1926. Jour. Agr. Res. 32: 757-781. (Wis.-33)
Green, S.B. 1893. Minn. Bul. 32: 222-228.
Halsted, B.D. (1898) N.J. Rpt. (1897) 18: 355-359.
Humphrey, J.E. (1889-90) Mass. Rpt. (1888) 6: 131-138; (1889)
7: 214-223.
Jones, L.R. 1901. Vt. Bul. 85. p.109-120. (With A.W. Edson)
----- 1922. Wis. Res. Bul. 53. 35 p. (With H.H. McKin-
ney and H. Fellows)
Lint, H.C. (1915-16) N.J. Rpt. (1913/14) 35: 477-488; (1914/15)
36: 375-381.
Martin, W.H. (1923) N.J. Rpt. (1921/22) 43: 596-600.
Lutman, B.F. 1914. Vt. Bul. 184. p.1-64. (With G.C.
Cunningham)
----- 1919b. Vt. Bul. 215. 30 p.
Shapovalov, M. 1915b. Jour. Agr. Res. 4: 129-134. (Maine-4)
Sturgis, W.C. (1897) Conn. Rpt. (1896) 20: 263-266.
Thaxter, R. 1890b. Conn. Bul. 105: 3-4.
----- (1891-92) Conn. Rpt. (1889/90) 14: 81-95; (1890/91)
15: 153-160.
Troop, J. 1894. Ind. Bul. 53: 120-122.
Wheeler, H.J. 1893. R.I. Bul. 26: 141-156. (With J.D. Towar)
----- 1894. R.I. Bul. 30: 66-85. (With J.D. Towar and
G.M. Tucker)
----- 1895-96. R.I. Bul. 33: 51-79; Bul. 40: 80-96.
(With G.M. Tucker)

See also POTATO. DISEASES. Powdery scab.

Scab. Control.

- Arthur, J.C. 1895, 1897. Ind. Bul. 56: 69-80; Bul. 65. 36 p.
Ball, C.R. 1899. Iowa Bul. 42: 141-142.
Beach, S.A. 1893a. N.Y. (Geneva) Bul. n.s: 49: 1-13.
Bolley, H.L. 1893. N.Dak. Bul. 9: 27-41.
Brann, J.W. 1921. Wis. Bul. 331. 27 p. (With R.E. Vaughan)
Edgerton, C.W. 1915. La. Circ. 8. 4 p.
Gaines, J.G. 1925. N.J. Rpt. (1923/24) 45: 414-421.
Garman, H. 1898, 1899b, 1901a. Ky. Bul. 72: 9-23; Bul. 81:
5-11; Bul. 91: 56-59.
Halsted, B.D. 1895c, 1897. N.J. Bul. 112. 20 p.; Bul. 120.
20 p.
Henderson, L.F. 1906a. Idaho Bul. 52. 8 p.
Kinney, L.F. 1891. R.I. Bul. 14: 175-186.
Lint, H.C. (1917) N.J. Rpt. (1915/16) 37: 618-625.
Maney, T.J. 1914. Iowa Bul. 148. p.37-60.
Martin, W.H. (1921-26) N.J. Rpt. (1919/20) 41: 587-598.
(1920/21) 42: 442-452; (1921/22) 43: 582-595; (1922/23) 44:
348-355; (1924/25) 46: 460-464.
----- 1922. N.J. Circ. 131. 12 p.

POTATO. DISEASES. (Cont.)

Scab. Control. (Cont.)

- Morse, W.J. 1907a. Maine Bul. 141. p.79-92.
Pammel, L.H. 1895a. Iowa Bul. 27: 120-129.
Sherbakoff, C.D. 1914. N.Y.(Cornell) Bul. 350. p.705-743.
Stewart, F.C. 1913c. N.Y.(Geneva) Bul. 369. p.325-416. (With
W.O. Gloyer)
Stone, G.E. (1913) Mass. Rpt. (1912,pt.I) 25: 84-96. (With G.H.
Chapman)
Sturgis, W.C. (1895-97) Conn. Rpt. (1894) 18: 118-126; (1895)
19: 166-176; (1896) 20: 246-262.
Taft, L.R. 1894b. Mich. Bul. 108: 38-45. (With R.J. Coryell)
Wedgworth, H.H. 1925. Miss. Circ. 61. 4 p. (With C.B. Anders)
Wheeler, H.J. 1898. R.I. Rpt. (1897) 10: 254-268. (With G.E.
Adams)

----- 1899. R.I. Rpt. (1899) 12: 163-167. (With B.L. Hart-
well and N.L.C. Moore)

Williams, T.A. 1896. S.Dak. Bul. 48: 3-11.

Silver scurf. *Sponylocidium atrovirens*. See POTATO. DISEASES
(McKay, M.B. 1922)

Southern bacterial wilt. *Bacillus solanacearum*. See POTATO. DISEASES.
Brown rot.

Spindling sprout.

Stewart, F.C. 1915a. N.Y.(Geneva) Bul. 399. p.133-143. (With
F.A. Serrine)

See also POTATO. DISEASES. Degeneration.

Spindling tuber.

Folsom, D. 1923. Maine Bul. 312. p.21-44.

----- 1924. Maine Bul. 316. 26 p. (With E.S. Schultz)

Gilbert, A.H. 1925. Vt. Bul. 245. 16 p.

Martin, W.H. (1924) N.J. Rpt. (1922/23) 44: 345-347.

Werner, H.O. 1925. Nebr. Bul. 207. 21 p.

----- 1926. Nebr. Res. Bul. 32. 128 p.

See also POTATO. DISEASES. Degeneration.

Spongospora subterranea. See POTATO. DISEASES. Powdery scab.

Streak. See POTATO. DISEASES (Coons, G.H. 1923d)

Storage and transportation rots.

Frank, A. 1918. Wash.(West.) Month. Bul. 6: 83.

Gratz, L.O. 1927. Fla. Bul. 187. p.165-182. (With R. Bonde)

Kotila, J.E. 1923b. Mich. Quart. Bul. 6: 8-11.

See also POTATO. DISEASES. Black heart -- POTATO. DISEASES.

Fusarium.

Tipburn. See POTATO. DISEASES. Hopperburn.

Tuber rot. *Alternaria solani*.

Gratz, L.O. 1927. Fla. Bul. 187. p.165-182. (With R. Bonde)

See also under POTATO. DISEASES the subheads Blackleg -- *Fusarium*
trichothecioides -- *Rhizoctonia*.

Verticillium albo-atrum.

McKay, M.B. 1921b. Jour. Agr. Res. 21: 821-848. (Oreg.-6)

----- 1926a. Oreg. Bul. 221. 23 p.

----- 1926b. Jour. Agr. Res. 32: 437-470. (Oreg.-11)

POTATO. DISEASES. (Cont.)

Wart disease. Chrysophlyctis endobiotica.

Orton, C.R. 1919. Penn. Bul. 156. 16 p. (With F.D. Kern)

Wilt. See POTATO. DISEASES. Fusarium -- POTATO. DISEASES. Fusarium oxysporum.

Witches broom. See POTATO. DISEASES (Coons, G.H. 1923d)

Potato. Freezing and frost injury. See POTATO. WEATHER INJURIES.

POTATO. LEGISLATION AND INSPECTION.

Brown, B.A. 1923. Conn.(Storrs) Bul. 114. p.285-296. (With W.L. Slate)

Musser, A.M. 1923. S.C. Bul. 218. 16 p. (With C.A. Ludwig)

Prince, F.S. 1918. N.H. Circ. 19. 10 p.

Werner, H.O. 1923. Nebr. Res. Bul. 24. 58 p.

Potato. Quarantine. See POTATO. LEGISLATION AND INSPECTION.

Potato. Resistant varieties. See POTATO. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Potato. Seed certification. See POTATO. LEGISLATION AND INSPECTION.

POTATO. SEED TREATMENT.

Brown, B.A. 1925. Conn.(Storrs) Bul. 126: 27-30. (With W.L. Slate)

Brown, J.G. 1922b. Ariz. Timely Hints 136. 4 p.

Clark, E.S. 1924. N.J. Rpt. (1922/25) 44: 410-414.

Coons, G.H. 1921b. Mich. Quart. Bul. 3: 132-134.

Edgerton, C.W. 1921b. La. Bul. 181. 15 p. (With G.L. Tiebout)

MacMillan, H.G. 1927. Wyo. Bul. 152. 67 p. (With A. Christensen)

Melhus, I.E. 1919c. Iowa Circ. 57. 8 p. (With J.C. Gilman)

----- 1920b. Iowa Res. Bul. 59. p.353-397. (With J.C.

Gilman and J.B. Kendrick)

Raeder, J.M. 1925. Idaho Res. Bul. 4. 37 p. (With C.W. Hungerford and N. Chapman)

Richards, B.L. 1926b. Utah Circ. 60. 14 p.

Stewart, F.C. 1916. N.Y.(Geneva) Bul. 422. p.319-357.

----- 1924b. N.Y.(Geneva) Bul. 522. 14 p.

Thomas, R.C. 1919. Ohio Month. Bul. 4: 341-344.

Wedgworth, H.H. 1925. Miss. Circ. 61. 4 p. (With C.B. Anders)

POTATO. WEATHER INJURIES.

Jones, L.R. 1919. Wis. Res. Bul. 46. 46 p. (With M. Miller and E. Bailey)

Lutman, B.F. 1911. Vt. Bul. 159. p.213-296.

Potato, Sweet See SWEET POTATO.

POWDERY MILDEWS.

Halsted, B.D. (1904) N.J. Rpt. (1903) 24: 517-536.

Lawrence, W.H. 1905. Wash. Bul. 70. 16 p.

Reed, G.M. 1916. Mo. Res. Bul. 23. 19 p.

Selby, A.D. 1893. Ohio Bul. Tech. ser. 1: 213-224.

PRIVET. DISEASES.

Anthracnose. Gloeosporium cingulatum.

Atkinson, G. F. 1892c. N.Y.(Cornell) Bul. 49: 306-314.

PRUNUS. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Smith, C.O. 1926. Jour. Agr. Res. 31: 957-971. (Calif.-41)

PRUNUS. DISEASES.

See also ALMOND -- APRICOT -- CHERRY -- FRUIT AND FRUIT TREES --
PEACH -- PLUM.

Crown gall.

Smith, C.O. 1926. Jour. Agr. Res. 31: 957-971. (Calif.-41)

Exoascus.

Atkinson, G.F. 1894. N.Y.(Cornell) Bul. 73. p.317-555.

Pseudomonas apii. See CELERY. DISEASES. Bacterial leaf spot.

Pseudomonas avenae. See OATS. DISEASES. Bacterial blade blight.

Pseudomonas campestris. See CABBAGE: DISEASES. Black rot --
CAULIFLOWER. DISEASES -- TURNIP. DISEASES. Black rot.

Pseudomonas cerasus. See CHERRY. DISEASES. Gummosis.

Pseudomonas citri. See CITRUS. DISEASES. Canker.

Pseudomonas dissolvens. See MAIZE. DISEASES. Bacterial root and
stalk rot.

PSEUDOMONAS HOLCI.

Kendrick, J.B. 1926a. Iowa Res. Bul. 100. p.303-334.

Pseudomonas juglandis. See WALNUT. DISEASES. Blight.

Pseudomonas medicaginis. See ALFALFA. DISEASES. *Pseudomonas medi-*
caginis.

Pseudomonas phaseoli. See BEAN. DISEASES. Blight.

Pseudomonas pisi. See PEA. DISEASES. Bacteriosis.

Pseudoperonospora cubensis. See CUCUMBER. DISEASES. Downy mildew --
CUCURBITS. DISEASES. Downy mildew -- MELON. DISEASES. Downy
mildew -- WATERMELON. DISEASES (Stuckey, H.P. 1924)

Pseudopeziza medicaginis. See ALFALFA. DISEASES. Leaf spot.

Pseudopeziza ribis. See CURRANT. DISEASES.

Pseudopeziza trifolii. See CLOVER. DISEASES.(Stewart, F.C. 1919)

Puccinia antirrhini. See SNAPDRAGON. DISEASES. Rust.

Puccinia arenariae. See ORNAMENTAL PLANTS. DISEASES (Halsted, B.D.
1892)

Puccinia asparagi. See ASPARAGUS. DISEASES. Rust.

Puccinia bullata. See CELERY. DISEASES (Halsted, B.D. 1892c)

Puccinia chrysanthemi. See CHRYSANTHEMUM. DISEASES. Rust.

Puccinia coronata. See GRASSES AND FORAGE PLANTS. DISEASES. Rust.

Puccinia coronata -- OATS. DISEASES. Rust. *Puccinia coronata* --
RHAMNUS. DISEASES. Rust.

Puccinia dispersa. See RYE. DISEASES.

Puccinia glumarum. See WHEAT. DISEASES (Weniger, W. 1923)

PUCGINIA GRAMINIS.

Levine, M.N. 1918a. Jour. Agr. Res. 13: 651-654. (Minn.-30.

In cooperation with Bur. of plant indus.) (With E.C. Stakman)

Stakman, E.C. 1917. Jour. Agr. Res. 10: 429-496. (Minn.-19.

In cooperation with Bur. of plant indus.) (With F.J. Piemeisel)

----- 1918c. Jour. Agr. Res. 15: 221-250. (Minn.-33. In
cooperation with Bur. of plant indus.) (With F.J. Piemeisel
and M.N. Levine)

----- 1919a. Jour. Agr. Res. 16: 43-77. (Minn.-35. In
cooperation with Bur. of plant indus.) (With M.N. Levine)

----- 1919b. Jour. Agr. Res. 16: 103-105. (Minn.-36. In
cooperation with Bur. of plant indus.) (With M.N. Levine)

PUCCINIA GRAMINIS. (Cont.)

Stakman, E.C. 1922b. Minn. Tech. Bul. 8. 10 p. (With M.N. Levine)

See also HORDEUM JUBATUM. DISEASES; and the subhead Rust. Puccinia graminis under CEREALS -- GRASSES AND FORAGE PLANTS -- TIMOTHY -- WHEAT.

PUCCINIA GRAMINIS AVENAE.

Bailey, D.L. 1925. Minn. Tech. Bul. 35. 53 p.

See also OATS. DISEASES. Rust. Puccinia graminis avenae.

Puccinia graminis hordei. See CEREALS. DISEASES. Rust (Stakman, E.C. 1914)

Puccinia graminis secalis. See CEREALS. DISEASES. Rust (Stakman, E.C. 1914) -- RYE. DISEASES.

PUCCINIA GRAMINIS TRITICI.

Peltier, G.L. 1922-25. Nebr. Res. Bul. 22. 15 p.; Res. Bul. 25. 52 p.; Res. Bul. 34. 12 p.; Res. Bul. 35. 11 p.

See also CEREALS. DISEASES. Rust (Stakman, E.C. 1924) -- WHEAT. DISEASES. Rust. Puccinia graminis tritici.

Puccinia graminis tritici-inficiens. See WHEAT. DISEASES. Rust. Puccinia graminis tritici-inficiens.

Puccinia helianthi. See SUNFLOWER. DISEASES. Rust.

Puccinia malvacearum. See HOLLYHOCK. DISEASES. Rust.

Puccinia oenothera. See OENOTHERA. DISEASES. Rust.

Puccinia peckiana. See BLACKBERRY. DISEASES. Rust -- RASPBERRY. DISEASES. Rust. Puccinia peckiana.

Puccinia phlei-pratensis. See TIMOTHY. DISEASES. Rust. Puccinia phlei-pratensis.

Puccinia podophylli. See MANDRAKE. DISEASES. Rust.

Puccinia pruni-spinosae. See PLUM. DISEASES. (Anderson, H.W. 1920b)

Puccinia rubigo-vera. See CEREALS. DISEASES. Rust. Puccinia -- WHEAT. DISEASES. Rust (Bolley, H.L. 1889)

Puccinia sorghi. See MAIZE. DISEASES (Holbert, J.R. 1924)

Puccinia suaveolens. See THISTLE. DISEASES. Rust.

Puccinia triticina. See WHEAT. DISEASES (Weniger, W. 1923)

Puccinia xylorrhizae. See WILD PLANTS (XYLORRHIZA PARRYI). DISEASES. Rust.

Pummelo. See Pomelo.

Phythiacystis citrophthora. See CITRUS. DISEASES. Brown rot -- LEMON. DISEASES. Brown rot.

Pythium. See CONIFERS. DISEASES. Damping off -- PEA. DISEASES (Jones, F.R. 1925)

Pythium debaryanum. See DAMPING OFF -- EGGPLANT. DISEASES. Damping off -- SOYBEAN. DISEASES. Root rot.

QUINCE. DISEASES.

Anderson, H.W. 1920b. Ill. Circ. 241: 82-86.

Bailey, L.H. 1894c. N.Y. (Cornell) Bul. 80: 619-628.

Halsted, B.D. 1892b. N.J. Bul. 91. 16 p.

See also FRUIT AND FRUIT TREES. DISEASES.

Black rot. Physalospora cydoniae (Sphaeropsis malorum). See QUINCE. DISEASES (Anderson, H.W. 1920b; Halsted, B.D. 1892b)

QUINCE. DISEASES. (Cont.)

Crown gall. *Bacterium tumefaciens*. See QUINCE. DISEASES (Anderson, H.W. 1920b)

Leaf blight. *Fabraea maculata* (*Entomosporium maculatum*)

Chester, F.D. 1891. Del. Bul. 13: 4-13.

Thaxter, R. (1891-92) Conn. Rpt. (1889/90) 14: 99-100;
(1890/91) 15: 150-152.

Rust. *Roestelia aurantiaca*.

Harvey, F.L. (1895) Maine Rpt. (1894) 10: 90-95.

RADISH. DISEASES.

See also TRUCK CROPS. DISEASES.

Ascochyta,

Stone, G.E. (1909) Mass. Rpt. (1908, pt. I) 21: 50-51.

Black root. *Aphanomyces raphani*.

Kendrick, J.B. 1927. Ind. Bul. 311. 32 p.

White rust. *Albugo candida* (*Cystopus candidus*)

Halsted, B.D. (1901) N.J. Rpt. (1900) 21: 462-465.

Melhus, I.E. 1911. Wis. Res. Bul. 15. p.25-91

Ramularia tulasnei. See STRAWBERRY. DISEASES. Leaf blight.

RASPBERRY. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Ballou, F.H. 1909. Ohio Circ. 94: 65-70.

RASPBERRY. DISEASES.

Bailey, L.H. 1895b. N.Y. (Cornell) Bul. 100: 470-475.

Bennett, C.W. 1925b. Mich. Quart. Bul. 6: 12-14.

Coons, G.H. 1922b. Mich. Quart. Bul. 4: 138-141.

Detmers, F. 1891a. Ohio Bul. (Ser. 2) [32] (v. 4, no. 6): 124-129.

Melhus, I.E. 1927. Iowa Circ. 105. 15 p. (With O.H. Elmer)

See also SMALL FRUITS. DISEASES.

Anthracoise. *Plectodiscella veneta* (*Gloeosporium venetum*)

Burkholder, W.H. 1917. N.Y. (Cornell) Bul. 395. p.153-183.

Green, S.B. 1895a. Minn. Bul. 39: 230-231.

Jones, L.K. 1924. Wis. Res. Bul. 59. 26 p.

Lawrence, W.H. 1910a. Wash. Bul. 97. 18 p.

Paddock, W. 1897. N.Y. (Geneva) Bul. 124. p.261-274.

Anthracoise. Control.

Beach, S.A. (1895-96) N.Y. (Geneva) Rpt. (1894) 13: 684-686;
(1895) 14: 342-345.

Dutton, W.C. 1918b. Mich. Spec. Bul. 33. 8 p.

Sturgis, W.C. (1900) Conn. Rpt. (1899) 23: 274-276.

Blue stem. *Acrostalagmus caulophagus*.

Lawrence, W.H. 1912b. Wash. Bul. 108. 30 p.

Blue stem. *Verticillium albo-atrum*.

Rankin, W.H. 1924. N.Y. (Geneva) Circ. 75: 4.

Cane blight. *Leptosphaeria coniothyrium*.

Stewart, F.C. 1903c. N.Y. (Geneva) Bul. 226: 362-364. (With
H.J. Eustace)

Crown gall.

Washburn, F.L. 1908. Minn. Bul. 112: 235-241

Eastern blue stem.

Rankin, W.H. 1923. N.Y. (Geneva) Circ. 67. 12 p.

RASPBERRY. DISEASES. (Cont.)

Leaf curl.

Rankin, W.H. 1923. N.Y.(Geneva) Circ. 67. 12 p.

Mosaic.

Bennett, C.W. 1927b. Mich. Tech. Bul. 80. 38 p.

Frank, A. 1924. Wash.(West.) Bi-month. Bul. 12: 48-51.

Rankin, W.H. 1923. N.Y.(Geneva) Circ. 67. 12 p.

----- 1924. N.Y.(Geneva) Circ. 75. 4 p.

----- 1927. N.Y.(Geneva) Bul. 543. 60 p.

Stewart, F.C. 1902c. N.Y.(Geneva) Bul. 226. p.331-366.

(With H.J. Eustace)

Orange rust, *Gymnoconia interstitialis*. See RASPBERRY. DISEASES

(Melhus, I.E. 1927)

Plectodiscella veneta. See RASPBERRY. DISEASES. Anthracnose.

Rosette. See RASPBERRY. DISEASES. Eastern blue stem.

Rust.

Cook, G.H. 1880b. N.J. Bul. 2. p.7-8.

Rust. *Phragmidium imitans*.

Zeller, S.M. 1927b. Jour. Agr. Res. 34: 857-863. (Oreg.-16)

Rust. *Puccinia peckiana*.

Clinton, G.P. 1893. Ill. Bul. 29. p.273-300.

Spur blight. *Mycosphaerella rubina* (*Sphaerella rubina*)

Sackett, W.G. 1915. Colo. Bul. 206. 26 p.

Verticillium albo-atrum. See RASPBERRY. DISEASES. Blue stem.

Verticillium albo-atrum.

Weather injuries. See RASPBERRY. DISEASES (Melhus, I.E. 1927)

Wilt. See RASPBERRY. DISEASES. Blue stem.

Yellows. See RASPBERRY. DISEASES. Mosaic.

Reaction diseases. See SOIL REACTION DISEASES.

Respiration of diseased plants. See DISEASED PLANTS. Physiological reactions (Bennett, J.P. 1924)

RHAMNUS. DISEASES.

Rust. *Puccinia coronata*.

Melhus, I.E. 1922a. Iowa Res. Bul. 72. p.211-236. (With

S.M. Dietz and F.Willey)

RHIZOCTONIA DISEASES.

Dana, B.F. 1925a. Wash. Bul. 191. (Tech. paper) 78 p.

Duggar, B.M. 1901. N.Y.(Cornell) Bul. 136. p.49-76. (Also pub. as N.Y.(Geneva) Bul. 186) (With F.C. Stewart)

Frank, A. 1919. Wash. (West.) Month. Bul. 7: 143-146.

Peltier, G.L. 1916a. Ill. Bul. 189. p.279-390.

Richards, B.L. 1921a. Jour. Agr. Res. 21: 459-482. (Utah-13)

----- 1923a. Jour. Agr. Res. 23: 761-770. (Utah-16)

----- 1923b. Jour. Agr. Res. 25: 431-450. (Utah-18)

See also CABBAGE. DISEASES. Damping off -- CELERY. DISEASES. Root

rot -- CONIFERS. DISEASES. Damping off (Hansen, T.S. 1923) --

DAMPING OFF -- GINSENG. DISEASES (Van Hook, J.M. 1904) -- PEA.

DISEASES. Root rot. *Corticium vagum* -- PINE. DISEASES. Damping

off -- STRAWBERRY. DISEASES. Black root; also subhead Rhizoc-

tônia under BLACKBERRY -- CLOVER -- POTATO -- WILD PLANTS.

- Rhizoctonia microsclerotia. See FIG. DISEASES. Rhizoctonia microsclerotia.
- Rhizoctonia solani. See CABBAGE. DISEASES. Damping off - CARNATION. DISEASES. Stem rot. Corticium vagum. -- DAMPING OFF (Sherbakoff, C.D. (1917-18)) -- PEA. DISEASES. Root rot -- POTATO. DISEASES. Rhizoctonia. -- TOMATO. DISEASES (Weber, G.F. 1926)
- Rhizoctonia tuliparum. See TULIP. DISEASES. Rhizoctonia tuliparum.
- Rhizopus. See MAIZE. DISEASES (Holbert, J.R. 1924; Koehler, B. 1925b)
- Rhizopus nigricans. See FIG. DISEASES (Edgerton, C.W. 1911a) -- SWEET POTATO. DISEASES (Poole, R.F. 1922c) -- TOMATO. DISEASES (Weber, G.F. 1926)
- RHUBARB. DISEASES.
- Stevens, F.L. 1919a. Ill. Bul. 213. p.297-312.
- See also TRUCK CROPS. DISEASES.
- Anthraxnose. Colletotrichum erumpens. See RHUBARB. DISEASES.
- Leaf spot. Phyllosticta straminella. See RHUBARB. DISEASES.
- Phytophthora crown rot. Phytophthora cactorum.
- Beach, W.S. 1922. Penn. Bul. 174. 28 p.
- RIBES. DISEASES.
- See also CURRANT -- GOOSEBERRY -- SMALL FRUITS.
- Rust.
- Clinton, G.P. 1924a. Conn. Bul. 260. p.475-501. (With F.A. McCormick)
- RICE. DISEASES.
- Fulton, H.R. 1908c. La. Bul. 105. 28 p.
- See also CEREALS. DISEASES.
- Black smut. See RICE. DISEASES. Smut.
- Blast. Piricularia grisea (P. oryzae)
- Anderson, A.P. 1899b. S.C. Bul. 41: 3-14.
- Metcalf, H. 1906. S.C. Bul. 121. 43 p.
- Blight. See RICE. DISEASES. Straight head.
- Rotten neck. See RICE. DISEASES. Blast.
- Smut. Tilletia horrida (T. corona)
- Anderson, A.P. 1899b. S.C. Bul. 41: 3-14.
- Walker, E. 1899. S.C. Bul. 41: 15-32.
- Straight head.
- Collier, J.S. 1912. Ill. Circ. 156. 19 p.
- Hewitt, J.L. 1912a. Ark. Bul. 110. p.447-459.
- Roestelia aurantiaca. See QUINCE. DISEASES. Rust.
- ROOT CROPS. DISEASES.
- See also BEET -- CARROT -- POTATO -- SUGAR BEET -- SWEET POTATO -- TRUCK CROPS -- TURNIP.
- Scab. Actinomyces scabies.
- Sturgis, W.C. (1897) Conn. Rpt. (1896) 20: 263-266.
- ROOT DISEASES.
- Lawrence, W.H. 1910b. Wash. Bul. 3 (Spec. ser.) 16 p.
- See also FRUIT AND FRUIT TREES. DISEASES. Root rot -- TREES. DISEASES. Root rot.
- ROSACEAE. DISEASES.
- Valsa. (Cytospora)
- Stevens, F.L. 1919b. Ill. Bul. 217: 372-376.

ROSE. DISEASES.

Cook, M.T. 1918a. N.J. Circ. 97: 13-16.
 Smith, R.E. 1911. Calif. Bul. 218: 1162-1165. (With E.H. Smith)
 Stewart, F.C. 1910b. N.Y.(Geneva) Bul. 328: 389-392.
 See also ORNAMENTAL PLANTS. DISEASES.

Anthracoise. Gloeosporium rosae.

Halsted, B.D. (1894) N.J. Rpt. (1893) 14: 401-405.

Black spot. Diplocarpon rosae (Actinonema rosae)

Humphrey, J.E. 1889. Mass.(Hatch) Bul. 3: 9-19.
 Wolf, F.A. 1913. Ala. Bul. 172. p.115-118.

Canker. Cylindrocladium scoparium and C. parvum.

Anderson, P.J. 1918. Mass. Bul. 183. p.11-46.

Coniothyrium fuckelii. See ROSE. DISEASES (Cook, M.T. 1918a)

Crown gall. Bacterium tumefaciens. See ROSE. DISEASES (Cook, M.T. 1918a)

Leaf spot. Cercospora rosicola. See ROSE. DISEASES (Halsted, B.D. (1895))

Leaf spot. Mycosphaerella rosigena. See ROSE. DISEASES (Stewart, F.C. 1910b)

Mildew. Sphaerotheca humuli and S. pannosa.

Morrill, A.W. 1913. Ariz. Timely Hints no.99. 4 p.

Norton, J.B.S. 1911. Md. Bul. 156. p.73-80. (With T.H. White)

See also GREENHOUSE PLANTS. DISEASES (Maynard, S.T. 1389)

Powdery mildew. See ROSE. DISEASES. Mildew.

Rust. Phragmidium subcorticium and P. speciosum. See ROSE. DISEASES (Cook, M.T. 1918a)

Sphaerotheca pannosa var. rosae. See ROSE. DISEASES (Cook, M.T. 1918a)

ROSELLE. DISEASES.

Microsphaera euphorbiae.

Fawcett, H.S. (1909) Fla. Rpt. (1908/09) : lxii.

Rubus. See BLACKBERRY -- DEWBERRY -- LOGANBERRY -- RASPBERRY -- SMALL FRUITS.

RUSTS.

Arthur, J.C. (1903-10) Ind. Rpt. (1902/03) 16: 16; (1903/04) 17: 19; (1904/05) 18: 26-27; (1905/06) 19: 39; (1906/07) 20: 22-23; (1907/08) 21: 49-50; (1908/09) 22: 31-32; (1909/10) 23: 34.

Bolley, H.L. 1906a. N.Dak. Bul. 68. p.605-672.

Clinton, G.P. (1908) Conn. Rpt. (1908) 31: 369-396.

Detmers, F. 1892. Ohio Bul. 44: 153-140.

----- 1893. Ohio Bul. Tech. Ser. 1: 171-180.

Halsted, B.D. (1903) N.J. Rpt. (1902) 23: 419-420.

Olive, E.W. 1908. S.Dak. Bul. 109. 20 p.

Stakman, E.C. 1914. Minn. Bul. 138. 56 p.

Webber, H.J. 1889. Nebr. Bul. 11: 37-82. (With introduction by C.E. Bessey)

See also subhead Rust under various hosts.

Rutabaga. Diseases. See TURNIP. DISEASES (Pammel, L.H. 1895b)

RYE. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Brewbaker, H.E. 1926. Minn. Tech. Bul. 40: 22.

RYE. DISEASES.

Weniger, W. 1923. N.Kak. Bul. 166: 39-43.

See also CEREALS. DISEASES.

Anthraxnose. *Colletotrichum cereale*. See CEREALS. DISEASES. Anthracnose.

Brittle straw. See RYE. DISEASES. Physiological.

Broken stem. See RYE. DISEASES. *Mycosphaerella*.

Ergot. *Claviceps purpurea*. See RYE. DISEASES.

Fusarium blight. *Gibberella saubinetii*. See RYE. DISEASES.

Helminthosporium.

Stakman, L.J. 1920. Minn. Bul. 191. 18 p.

Mycosphaerella.

Detmers, F. 1919. Ohio Month. Bul. 4: 262-263. 1919.

Physiological.

Davison, F.R. 1924. Jour. Agr. Res. 28: 169-172. (Minn.-50)

(With H.E. Brewbaker and N.A. Thompson)

Rust. *Puccinia dispersa*. See RYE. DISEASES.

Smut. *Urocystis occulta*.

Bessey, E.A. 1917. Mich. Rpt. (1917) 30: 305-307. (With W.K. Makemson)

Stakman, E.C. 1916c. Minn. Bul. 160. 19 p. (With M.N. Levine)

Stem rust. *Puccinia graminis secalis*. See RYE. DISEASES.

Schizophyllum commune. See ORANGE. DISEASES (Smith, R.E. 1911)

Sclerospora graminicola. See MILLET. DISEASES. *Sclerospora graminicola*.

SCLEROTINIA DISEASES.

Ezekiel, W.N. 1924-26. Md. Bul. 271. p.37-142; Bul. 284. 22 p.

Lawrence, W.H. 1912a. Wash. Bul. 107. 22 p.

Norton, J.B.S. 1923. Md. Bul. 256. 32 p. (With W.N. Ezekiel and R.A. Jehle)

See also APPLE. DISEASES. Brown rot. -- FRUIT AND FRUIT TREES.

DISEASES. Brown rot. -- GINSENG. DISEASES. Sclerotinia rot.

Sclerotinia americana. See SCLEROTINIA DISEASES (Ezekiel, W.N. 1924-26); (Norton, J.B.S. 1923)

Sclerotinia cinerea. See APRICOT. DISEASES. Brown rot -- APRICOT.

DISEASES. Monilia blossom blight -- FRUIT AND FRUIT TREES.

DISEASES. Brown rot (Barss, H.P. 1923c) -- PEACH. DISEASES.

Brown rot -- PEAR. DISEASES (Anderson, H.W. 1920b) -- PLUM.

DISEASES. Brown rot.

Sclerotinia fructigena. See APPLE. DISEASES. Brown rot -- FRUIT AND FRUIT TREES. DISEASES. Brown rot -- PEACH. DISEASES. Brown rot.

Sclerotinia libertiana. See CELERY. DISEASES. *Sclerotinia libertiana* -- COLLARDS. DISEASES -- LEMON. DISEASES. Storage and transportation rots -- LETTUCE. DISEASES. *Sclerotinia sclerotiorum*.

Sclerotinia minor. See LETTUCE. DISEASES. *Sclerotinia minor* -- TOMATO. DISEASES (Weber, G.F. 1926)

Sclerotinia panacis. See GINSENG. DISEASES. *Sclerotinia rot*.

Sclerotinia perplexa. See SCLEROTINIA DISEASES (Lawrence, W.H. 1912a)
Sclerotinia sclerotiorum. See LETTUCE. DISEASES. Sclerotinia sclerotiorum -- TOMATO. DISEASES (Weber, G.F. 1926)
Sclerotinia smilacina. See GINSENG. DISEASES. Sclerotinia rot.
Sclerotinia trifoliorum. See ALFALFA. DISEASES. Sclerotinia trifoliorum -- CLOVER. DISEASES. Sclerotinia trifoliorum.

SCLEROTIUM DISEASES.

Halsted, B.D. (1894) N.J. Rpt. (1893) 14: 362-366.

Taubenhaus, J.J. 1919b. Jour. Agr. Res. 18: 127-138. (Tex.-4)

See also CARROT. DISEASES; Sclerotium -- TRUCK CROPS. DISEASES. Sclerotium.

Sclerotium delphinii. See LARKSPUR. DISEASES.

Sclerotium rhizodes. See BLUE JOINT GRASS. DISEASES. Sclerotium rhizodes.

Sclerotium rolfsii. See

See also FIG. DISEASES (Matz, J. 1918b) -- ORNAMENTAL PLANTS.

DISEASES. Sclerotium rolfsii -- PEANUT. DISEASES. Wilt ---

PEPPER. DISEASES (Higgins, B.B. 1923) -- SCLEROTIUM DISEASES --

SWEET POTATO. DISEASES. Sclerotium rolfsii -- TOMATO. DISEASES (Weber, G.F. 1926)

Sedum. Diseases. See ORNAMENTAL PLANTS. DISEASES (Halsted, B.D. 1893-94)

Seed borne diseases. See SEEDS. INFECTION.

SEED TREATMENT.

Arthur, J.C. 1899. Ind. Bul. 77: 38-44.

----- (1901) Ind. Rpt. (1899/1900) 13: 17-24.

Atanasoff, D. 1920a. Jour. Agr. Res. 18: 379-390. (Wis.-17)
(With A. G. Johnson)

Bolley, H.L. 1910. N.Dak. Bul. 87. p.129-166.

Hitchcock, A.S. 1894a. Kans. Bul. 41. p.63-79. (With M.A. Carleton)

Humbert, J.G. 1916a. Ohio Month. Bul. 1: 43-46.

Kellerman, W.A. 1893. Ohio Bul. Tech. ser. 1: 201-205.

Martin, W.H. (1921) N.J. Rpt. (1919/20) 41: 587-590.

Melchers, L.E. 1926a. Kans. Circ. 129. 23 p.

Robbins, W.W. 1918a. Colo. Bul. 238. 40 p. (With H.E. Vasey and G.E. Egginton)

Stewart, R. 1910. Utah Bul. 108. p.143-156. (With J. Stephens)

See also subhead Smut. Control under CEREALS -- OATS -- WHEAT; and heading SEED TREATMENT under CEREALS -- MAIZE -- OATS -- POTATO -- WHEAT.

Apparatus.

Hoffman, A.H. 1925. Calif. Bul. 391. 16 p. (With H.L. Belton)

Seedlings. Diseases. See CONIFERS. DISEASES. Damping off -- DAMPING OFF.

SEEDS. INFECTION.

Chen, C.C. 1920. Md. Bul. 240. p.81-110.

Edgerton, C.W. 1924a. La. Bul. 193. 34 p. (With A.F. Kidder)

Elliott, J.A. 1923a. Jour. Agr. Res. 23: 387-395. (Ark.-2)

North, J.B.S. 1918. Md. Bul. 216. p.175-226. (With C. E. Leathers)

Septobasidium pedicillatum. See APPLE. DISEASES. Septobasidium canker.
Septoria apii. See CELERY. DISEASES. Late blight.
Septoria cerasina. See PLUM. DISEASES. Leaf spot. Septoria cerasina.
Septoria chrysanthemi. See CHRYSANTHEMUM. DISEASES. Leaf spot.
Septoria gladioli. See GLADIOLUS. DISEASES. Hard rot.
Septoria glycines. See SOY BEAN. DISEASES. Septoria.
Septoria lycopersici. See TOMATO. DISEASES. Leaf spot.
Septoria nodorum. See WHEAT. DISEASES. Septoria glume blotch.
Septoria petroselini. See CELERY. DISEASES. Late blight.
Septoria petroselini var. apii. See CELERY. DISEASES. Late blight.
Septoria pisi. See PEA. DISEASES (Jones, F.R. 1925)
Septoria ribis. See CURRANT. DISEASES. Leaf spot -- GOOSEBERRY.

DISEASES (Anderson, H.W. 1920b)

SHADE TREES. DISEASES AND INJURIES.

Atkinson, G.F. 1901. N.Y.(Cornell) Bul. 193. p.197-235.

Cooks, M.T. 1918b. N.J. Circ. 98. 27 p.

Stone, G.E. 1903b. Mass.(Hatch) Bul. 91. 21 p.

----- 1908b. Mass. Bul. 125: 28-48.

----- (1911-13) Mass. Rpt. (1910,pt.II) 23: 52-55;

(1912,pt.I) 25: 73-83.

----- 1914. Mass. Bul. 156. 19 p.

----- 1916. Mass. Bul. 170: 159-254.

Taylor, A.D. 1908. N.Y.(Cornell) Bul. 256: 469-483.

See also TREES. DISEASES.

Shade trees. Electrical injuries. See SHADE TREES. DISEASES AND INJURIES.

Shade trees. Protection. See SHADE TREES. DISEASES AND INJURIES.

Shrubs. See ORNAMENTAL PLANTS.

SMALL FRUITS. DISEASES.

Anderson, H.W. 1920b. Ill. Circ. 241: 114-147.

Barss, E.P. 1923b. Oreg. Circ. 45: 10-16.

Colby, A.S. 1926. Ill. Circ. 305. 20 p. (With H.W. Anderson)

Cook, M.T. 1917e. N.J. Circ. 88. 11 p.

Frank, A. 1920. Wash.(West.) Month. Bul. 7: 188-192; 8: 14-16, 29-31.

Halsted, B.D. (1895) N.J. Rpt. (1894) 15: 320-334.

Jackson, H.S. (1913) Oreg. Crop Pest Rpt. (1911/12) 1: 261-270.

Longyear, B.O. 1904. Mich. Spec. Bul. 25: 38-56.

McCarthy, G. 1893. N.C. Bul. 92: 118-134.

Nicholson, J.F. 1905. Okla. Bul. 69: 18-20.

Selby, A.D. 1897a. Ohio Bul. 79: 99-112.

Stewart, F.C. 1899c. N.Y.(Geneva) Bul. 167. p.275-308.

(With F.H. Blodgett)

----- 1900c. N.Y.(Geneva) Bul. 191. p.291-331. (With R.M. Rolfs and F.H. Hall)

Wilson, G.W. 1913b. N.C. Rpt. (1911/12) 35: 57-61.

Zeller, S.M. 1923. Oreg. Circ. 49. 15 p.

See also BLACKBERRY -- CRANBERRY -- CURRANT -- DEWBERRY --

GOOSEBERRY -- GRAPE -- LOGANBERRY -- RASPBERRY -- RIBES --

STRAWBERRY.

SMALL FRUITS. DISEASES. (Cont.)

Control.

- Beach, S.A. 1895b. N.Y.(Geneva) Bul. n.s. 86. p.67-120.
(With W. Paddock)
Melander, A.L. 1916. Wash. Pop. Bul. 100. 63 p. (With
F.D. Heald)
Stakman, E.C. 1916a. Minn. Bul. 153. 65 p. (With A.G.
Tolaas)
----- 1922a. Minn. Bul. 199. 73 p. (With J.G. Leach
and J.L. Seal)

Mosaic.

- Zeller, S.M. 1923. Crog. Circ. 49. 15 p.

SMALL FRUITS. WEATHER INJURIES.

- Beach, S.A. (1897) N.Y.(Geneva) Rpt. (1896) 15: 408-439.
(With C.P. Close)

SMOKE AND SHELTER FUME INJURY.

- Bakke, A.L. 1913. Iowa Bul. 145. p.379-409.
Buckhout, W.A. 1901. Penn. Rpt. 1900/01: 297-324.
Widtsoe, J.A. 1903. Utah Bul. 38: 163-167.
See also Fumigation injury.

SMUTS.

- Clinton, G.P. 1900. Ill. Bul. 57. p.289-360.
Humphrey, J.E. (1891) Mass. Rpt. (1890) 9: 244-248.
Melchers, L.E. 1916. Kans. Bul. 210. 38 p.
Webber, H.J. 1889. Nebr. Bul. 11: 37-82.

See also subhead Smut under various hosts.

Control. See subhead Smut. Control under CEREALS -- OATS --
WHEAT.

SNAPDRAGON. DISEASES.

- Stewart, F.C. 1900a. N.Y.(Geneva) Bul. 179. p.105-110.

See also ORNAMENTAL PLANTS. DISEASES.

Anthracnose. *Colletotrichum antirrhini*. See SNAPDRAGON. DIS-
EASES.

Rust. *Puccinia antirrhini*.

- Butler, C. 1923. W.H. Tech. Bul. 22. 14 p.
Doran, T.L. 1921. Mass. Bul. 202. p.37-66.
Peltier, G.L. 1919a. Ill. Bul. 221. p.533-548.

Stem rot. *Phoma* sp. See SNAPDRAGON. DISEASES.

Soft rots. See BACTERIAL SOFT ROTTS.

Soil deficiencies. Effect on plants. See MALNUTRITION DISEASES --
SOIL REACTION DISEASES.

SOIL DISINFECTON.

- Atenasoff, D. 1920a. Jour. Agr. Res. 18: 379-390. (Wis.-17)
(With A.G. Johnson)
Brown, H.D. 1922. Ind. Bul. 266: 3-19.
Halsted, B.D. (1895-1902) N.J. Rpt. (1894) 15: 275-302; (1895)
16: 250-309, 319-345; (1896) 17: 290-378; (1897) 18: 263-314,
319-334, 362-372; (1898) 19: 292-324, 328-332, 348-357; (1899)
20: 326-367, 379-405; (1900) 21: 410-444; (1901) 22: 388-390.

SOIL DISINFECTIO. (Cont.)

- Halsted, B.D. 1895b. N.J. Bul. 103. 32 p. (With J.A. Kelsey)
Humbert, J.G. 1916a. Ohio Month. Bul. 1: 43-46.
Newhall, A.G. 1927. Ohio Bi-month. Bul. 12: 21-25.
Ockerblad, F.O. jr. 1917. Vt. Bul. 203: 14-16.
Sackett, W.G. 1927. Colo. Bul. 321. 24 p.
Selby, A.D. 1906. Ohio Circ. 57. 7 p.
----- 1915c. Ohio Circ. 156. p.5-8. (With T. Houser and
J.G. Humbert)
Stone, G.E. (1902) Mass.(Hatch) Rpt. (1900/01) 14: 74-85.
(With R.E. Smith)
----- (1905) Mass. Rpt. (1904) 17: 10-14. (With N.F.
Monahan)
----- (1912) Mass. Rpt. (1911,pt.I) 24: 121-125.
Wheeler, H.J. 1898. R.I. Rpt. (1897) 10: 254-268. (With G.E.
Adams)
----- 1899. R.I. Rpt. (1899) 12: 165-167. (With B.L.
Hartwell and N.L.C. Moore)

SOIL ENVIRONMENT. EFFECT ON PLANT DISEASES.

- Beach, S.A. 1897c. N.Y.(Geneva) Bul. 140. p.665-690.
Blake, M.A. 1911b. N.J. Rpt. (1909/10) 31: 78-81. (With A.J.
Farley)
Brown, H.D. 1922. Ind. Bul. 266: 3-19.
Coons, G.H. 1921b. Mich. Quart. Bul. 3: 132-134.
Dickson, J.G. 1926a. Wis. Bul. 379. 36 p.
Edgerton, C.W. 1920b. La. Bul. 174. 54 p. (With C.C. More-
land)
Halsted, B.D. 1891b. N.J. Spec. Bul. M. 19 p.
----- 1895b. N.J. Bul. 103. 32 p. (With J.A. Kelsey)
Henderson, L.F. (1904-05) Idaho Rpt. 1903/04: 28-32; 1904/05;
16-19.
Holbert, J.R. 1924. Ill. Bul. 255. p.239-478. (With W.L.
Burlison, B. Koehler, C.M. Woodworth and G.H. Dungan)
Johnson, J. 1919. Jour. Agr. Res. 17: 41-86. (Wis.-15. In
cooperation with Bur. of plant indus.) (With R.E. Hartman)
Jones, L.R. 1922. Wis. Res. Bul. 53. 35 p. (With H.H. Mc-
Kinney and H. Fellows)
----- 1926. Wis. Res. Bul. 71. 144 p. (With J. Johnson
and J.G. Dickson)
Martin, W.H. (1923) N.J. Rpt. (1921/22) 43: 596-600.
Owen, F.V. 1927. Jour. Agr. Res. 34: 559-587. (Wis.-40)
Richards, B.L. 1921a, 1925a. Jour. Agr. Res. 21: 459-482.
(Utah-13); Jour. Agr. Res. 23: 761-770. (Utah-16)
Smith, R.E. 1911. Calif. Bul. 218: 1061-1075. (With E.H. Smith)
Stone, G.E. (1900) Mass. Rpt. (1898/99) 12: 61-73. (With R.E.
Smith)
Tims, E.C. 1926c. Jour. Agr. Res. 33: 971-992. (Wis.-36)
Tisdale, W.B. 1925a. Jour. Agr. Res. 24: 55-86. (Wis.-20)
Valleau, W.D. 1926c. Jour. Agr. Res. 33: 453-476. (Ky.-19)
(With P.E. Kerraker and E.M. Johnson)
See also SOILS, FUNGUS INFECTION.

Soil fungi. See SOILS. FUNGUS INFECTION.

SOIL REACTION DISEASES.

Anderson, P.J. 1926. Mass. Bul. 229. p.117-136. (With A.V. Osmun and W.L. Doran)

See also CHLOROSIS -- CLOVER. DISEASES. Physiological -- FLAX. DISEASES. Wilt -- HYDROGEN ION CONCENTRATION IN RELATION TO PLANT DISEASES -- MALNUTRITION DISEASES.

Soil sterilization. See SOIL DISINFECTION.

Soil temperature. Effect on plant diseases. See SOIL ENVIRONMENT. EFFECT ON PLANT DISEASES.

Soil treatment for prevention of disease. See SOIL DISINFECTION.

Soils, Acid. See HYDROGEN-ION CONCENTRATION AND PLANT DISEASES -- SOIL REACTION DISEASES.

SOILS. FUNGUS INFECTION.

Bolley, H.L. 1913. N.Dak. Bul. 107. 94 p.

Halsted, B.D. (1898) N.J. Rpt. (1897) 18: 355-359.

Jensen, C.N. 1912. N.Y.(Cornell) Bul. 315. p.413-501.

Stewart, F.C. 1913b. N.Y.(Geneva) Bul. 367. p.357-361.

See also DAMPING OFF -- FLAX. DISEASES. Wilt -- FUSARIUM DISEASES.

Soils. Relation to plant diseases. See MALNUTRITION DISEASES -- SOIL ENVIRONMENT. EFFECT ON PLANT DISEASES -- SOIL REACTION DISEASES.

Soils. Toxic substances. See SPRAY RESIDUES (Morris, H.E. 1927)

SOLANACEAE. DISEASES.

See also EGGPLANT -- PEPPER -- POTATO -- TOBACCO -- TOMATO.

Mosaic.

Fernow, K.H. 1925. N.Y.(Cornell) Mem. 96. 34 p.

SORGHUM. DISEASES.

Taubenhaus, J.J. 1920b. Tex. Bul. 261. 34 p.

Thompson, G.E. 1923. Ariz. Bul. 98: 66.

See also GRASSES AND FORAGE PLANTS. DISEASES.

Anthracnose. *Colletotrichum falcatum*. See SORGHUM. DISEASES (Taubenhaus, J.J. 1920b)

Blight. *Bacillus sorghi*.

Kellerman, W.A. 1888. Kans. Bul. 5: 56-60.

----- (1889) Kans. Rpt. (1888) 1: 280-302. (With W.T.

Swingle)

Fusarium.

Pammel, L.H. 1916. Iowa Res. Bul. 33. p.113-136. (With C.M. King and J.L. Seal)

Head smut. See SORGHUM. DISEASES. Smut -- SORGHUM. DISEASES. Smut. *Sphacelotheca reiliana*.

Holcus bacterial spot. See PSEUDOMONAS HOLCI.

Kernel smut. See SORGHUM. DISEASES (Taubenhaus, J.J. 1920b)

Smut.

Kellerman, W.A. 1891d. Kans. Bul. 23. p.95-105.

Melchers, L.E. 1916. Kans. Bul. 210: 11-18.

Smut. *Sphacelotheca reiliana*.

Dana, B.F. 1920. Wash. Pop. Bul. 119. 8 p.

Smut. *Sphacelotheca sorghi* (*Cintractia sorghi-vulgaris*; *Ustilago sorghi*)

Roberts, H.F. 1907. Kans. Bul. 149. p.11-15. (With G.F. Freeman)

Sphacelotheca crucata. See SORGHUM. DISEASES (Taubenhaus, J.J. 1920b)

SORGHUM. SEED TREATMENT.

Finnell, H.H. 1926. Okla. Bul. 159. 15 p.

Sorosporium reilianum. See MAIZE. DISEASES. Smut. Sphacelotheca reiliana -- SORGHUM. DISEASES (Taubenhaus, J.J. 1920b)

SOY BEAN. DISEASES.

Wolf, F.A. 1926g. Jour. Agr. Res. 33: 391-396. (N.C.-23)
(with S.G. Lehman)

See also GRASSES AND FORAGE PLANTS. DISEASES.

Alternaria atrans.

Gibson, F. 1922. Ariz. Tech. Bul. 2. p.41-46.

Anthracnose. Glomerella glycines (Colletotrichum glycines)

Lehman, S.G. 1926d. Jour. Agr. Res. 33: 381-390. (N.C.-22)
(With F.A. Wolf)

Bacterial blight. Bacterium sojae (B. glycineum)

Coerper, F.M. 1919. Jour. Agr. Res. 18: 179-194. (Wis.-16)

Bacterial pustule. See SOY BEAN. DISEASES. Bacterium phaseoli var. sojense.

Bacterium phaseoli var. sojense.

Wolf, F.A. 1925. Jour. Agr. Res. 29: 57-58. (N.C.-18)

Brown spot. See SOY BEAN. DISEASES. Septoria glycines.

Cercospora daizu. See SOY BEAN. DISEASES.

Diaporthe sojae. See SOY BEAN. DISEASES.

Downy mildew. Peronospora sojae. See SOY BEAN. DISEASES.

Fusarium blight. See SOY BEAN. DISEASES. Wilt.

Mosaic.

Gardner, M.W. 1921c. Jour. Agr. Res. 22: 111-114. (Ind.-10)
(With J.B. Kendrick)

Kendrick, J.B. 1924b. Jour. Agr. Res. 27: 91-98. (Ind.-13)
(With M.W. Gardner)

Mottling.

Hughes, H.D. 1925. Iowa Bul. 228: 396-400. (With F.S. Wilkins)

Owen, F.V. 1927. Jour. Agr. Res. 34: 559-587. (Wis.-40)

Physiological. See SOY BEAN. DISEASES. Mottling.

Pod and stem blight. Diaporthe sojae. See SOY BEAN. DISEASES.

Root rot. Pythium debaryanum.

Lehman, S.G. 1926c. Jour. Agr. Res. 33: 375-380. (N.C.-21)
(With F.A. Wolf)

Septoria glycines.

Wolf, F.A. 1926d. Jour. Agr. Res. 33: 365-374. (N.C.-20)
(With S.G. Lehman)

Sunburn. See SOY BEAN. DISEASES. Alternaria atrans.

Wilt. Fusarium tracheiphilum.

Cromwell, R.O. 1919b. Nebr. Res. Bul. 14. 43p.

1917a. Jour. Agr. Res. 8: 421-440. (N.C.-4)

Sphaceloma fawcettii. See AVOCADO. DISEASES (Stevens, H.E. 1922) --
CITRUS. DISEASES. Scab.

Sphacelotheca cruenta. See SORGHUM. DISEASES. Smut (Melchers, L.E. 1916)

Sphacelotheca reiliana. See MAIZE. DISEASES. Smut. Sphacelotheca reiliana -- SORGHUM. DISEASES. Smut. Sphacelotheca reiliana.

- Sphacelotheca sorghi*. See KAFIR CORN. DISEASES. Smut -- SORGHUM. DISEASES. Smut. *Sphacelotheca sorghi* -- SUDAN GRASS. DISEASES. Smut.
- Sphaerella citrullina*. See CUCURBITS. DISEASES, *Mycosphaerella citrullina*.
- Sphaerella fragariae*. See STRAWBERRY. DISEASES. Leaf blight.
- Sphaerella rubina*. See RASPBERRY. DISEASES. Spur blight.
- Sphaeronema fimbriatum*. See SWEET POTATO. DISEASES. Black rot.
- Sphaeropsis malorum*. See subhead Black rot under APPLE -- FRUIT AND FRUIT TREES -- PEAR.
- Sphaeropsis tumefaciens*. See CITRUS. DISEASES (Stevens, H.E. 1918b)
- Sphaerotheca humuli*. See HOP. DISEASES. Powdery mildew -- ROSE. DISEASES. Mildew -- STRAWBERRY. DISEASES (Anderson, H.W. 1920b)
- Sphaerotheca mors-uvae*. See CURRANT. DISEASES (Stewart, F.C. 1919) -- GOOSEBERRY. DISEASES. American mildew.
- Sphaerotheca pannosa*. See PEACH. DISEASES. Powdery mildew -- ROSE DISEASES. Mildew.
- Sphaerotheca phytoptophila*. See HACKBERRY. DISEASES. *Sphaerotheca phytoptophila*.

SPINACH. DISEASES.

- Halstead, B.D. 1890z. N.J. Bul. 70. 15 p.
See also TRUCK CROPS. DISEASES.
- Anthracnose. *Colletotrichum spinaciae*. See SPINACH. DISEASES.
- Cladosporium macrocarpum*. See SPINACH. DISEASES.
- Downy mildew. *Peronospora effusa*. See SPINACH. DISEASES.
- Entyloma ellisii*. See SPINACH. DISEASES.
- Fusarium solani*.
- Taubenhaus, J.J. 1926. Tex. Bul. 343. 23 p.
- Leaf spot. *Phyllosticta chenopodii*. See SPINACH. DISEASES.
- Rust. *Heterosporium variabile*.
- Jennison, H.M. 1911. Mass. Rpt. (1910, pt. I) 23: 146-148.
- Reed, H.S. (1911) Va. Rpt. 1908-09/1909-10: 78-99. (With J.S. Cooley)
- Spondylocladium atrovirens*. See POTATO. DISEASES (McKay, M.B. 1922)
- Spongospora subterranea*. See POTATO. DISEASES. Powdery scab.
- Sporotrichum anthophilum*. See CARNATION. DISEASES. Bud rot (Heald, F.D. 1908b)
- Sporotrichum poae*. See CARNATION. DISEASES. Bud rot -- KENTUCKY BLUE GRASS. DISEASES. *Sporotrichum poae*)

SPRAY INJURY.

Beach, S.A. (1895) N.Y. (Geneva) Rpt. (1894) 13: 649-683

Bonns, W.W. 1911-12. Maine Bul. 189. p.31-30; Bul. 198. 32 p.

Campbell, F.L. 1926. Jour. Agr. Res. 32: 77-82. (N.J.-16)

Patten, A.J. 1919. Mich. Quart. Bul. 2: 83-84. (With P.O'Meara)

See also subhead Spray injury under APPLE -- CHERRY -- PEACH --

PEAR -- PLUM -- TOBACCO -- TOMATO.

Arsenic.

Fernald, H.T. 1922. Mass. Bul. 207. p.1-19; Bul. 210. p.89-98.
(With A.I. Bourne)

Gillette, C.P. 1888a, 1890. Iowa Bul. 2: 30-35; Bul. 10: 401-420.

Ginsburg, J.M. 1927. N.J. Rpt. 47: 199-206.

Gloyer, W.O. 1926. N.Y. (Geneva) Bul. 540. 18 p.

SPRAY INJURY. (Cont.)

Arsenic. (Cont.) 1910.

- Headden, W.P. 1908, / Colo. Bul. 131. 27 p.; Bul. 157. 56 p.
----- 1924. Colo. Bul. 294. 31 p..
Jordan, W.H. 1905. N.Y. (Geneva) Bul. 267. p.263-284. (With
F.C. Stewart and H.J. Eustace)
Kilgore, P.W. 1891. N.C. Bul. 77b (Tech. Bul.2) 11 p.
Swingle, D.B. 1917b. Jour. Agr. Res. 8: 283-318. (Mont.-4)
(With H.E. Morris)
----- 1923. Jour. Agr. Res. 24: 501-538. (Mont.-11)
(With H.E. Morris and E. Burke)
Woodworth, C.W. 1890. Ark. Bul. 14. 14 p.

Bordeaux mixture.

- Crandall, C.S. 1909. Ill. Bul. 135. p.199-296.
Edgerton, C.W. 1918. La. Bul. 164. 16 p.
Groth, B.H.A. 1910b. N.J. Bul. 232. 19 p.
Hedrick, U.P. 1907. N.Y. (Geneva) Bul. 287. p.105-189.
Martin, W.H. 1916. Jour. Agr. Res. 7: 529-548. (N.J.-4)
Starnes, H.N. 1898. Ga. Bul. 42: 243-250a.

Copper.

- Bain, S.M. 1902. Tenn. Bul. v.15, no.2. p.17-108.
Duggar, B.M. 1899b. N.Y. (Cornell) Bul. 164. p.367-388.

Lime sulphur.

- Safro, V.I. 1913. Oreg. Res. Bul. 2. 32 p.
Wallace, E. 1910b. N.Y. (Cornell) Bul. 288. p.101-137.

Oil.

- Volck, W.H. 1903. Calif. Bul. 153: 19-25.

SPRAY RESIDUES.

- Beach, S.A. 1892b. N.Y. (Geneva) Bul. n.s. 41: 35-46. (With
L.L. Van Slyke) 1910.
Headden, W.P. 1908, / Colo. Bul. 131. 27 p.; Bul. 157. 56 p.
Heald, F.D. 1927. Wash. Bul. 213. 55 p. (With J.R. Neller,
F.L. Overley and H.J. Dana)
Kedzie, R.C. 1893. Mich. Bul. 101: 19-21.
Morris, H.E. 1927. Jour. Agr. Res. 34: 59-78. (Mont.-17)
(With D.B. Swingle)
O'Kane, W.C. 1912. N.H. Bul. 183: 8-23. (With C.H. Hadley, Jr.
and W.A. Osgood)
Robinson, R.H. 1927. Oreg. Bul. 226. 46 p. (With H. Hartman)

SPRAYING.

- Beach, S.A. 1903. N.Y. (Geneva) Bul. 243. p.315-373. (With
V.A. Clark and O.M. Taylor)
Britton, W.E. 1926. Conn. Bul. 271. p.93-140. (With G.P.
Clinton)
Burrill, T.J. 1891. Ill. Bul. 15: 489-496. (With G.W. McCluer)
Close, C.P. 1906a, 1906b. Del. Bul. 72. 23p.; Bul. 76. 19 p.
Cooper, J.R. 1917a. Nebr. Res. Bul. 10. 98 p.
Corbett, L.C. 1896. W.Va. Bul. 43. (v.4, n.8) p.227-244.
Dickens, A. 1907. Kans. Bul. 145. p.195-215. (With R.E.
Eastman)

SPRAYING. (Cont.)

- Fulton, H.R. 1911. Penn. Bul. 110. 44 p. (With W.J. Wright and J.W. Gregg)
Garman, H. 1913. Ky. Bul. 172. p.191-209.
Henderson, L.F. 1907b. Idaho Bul. 61. 15 p.
Hewitt, J.L. 1913b. Ark. Bul. 114. p.507-545.
Howard, W.L. 1915. Mo. Bul. 124. p.187-285.
Howe, R.B. 1910. Ill. Circ. 137. 32 p.
Jarvis, C.D. 1909. Conn.(Storrs) Bul. 56. p.220-282.
Johnson, T.C. 1904. W.Va. Bul. 93. p.65-118.
Lamson, H.H. 1894c. N.H. Bul. 27. 16 p.
McCue, C.A. 1912. Del. Bul. 97[i.e.98] 78 p.
Martin, W.H. 1923a. N.J. Bul. 383. 32 p.
Morris, O.M. 1905. Okla. Bul. 64. 19 p.
Munson, W.M. 1894. Maine Bul.(ser.2) 8. 4 p.
Norton, J.B.S. 1910. Md. Bul. 143. p.177-215. (With A.J. Norman)
Pammel, L.H. 1893a. Iowa Bul. 20: 716-720.
Stone, G.E. 1908a. Mass. Bul. 123. 32 p. (With H.T. Fernald)
Stubenrauch, A.V. 1902a. Ill. Bul. 68. p.157-188.
Talbert, T.J. 1924a. Mo. Bul. 216. 30 p.
Townsend, C.O. Md. Bul. 65. p.64-69.
Troop, J. 1898. Ind. Bul. 69. p.33-40.
Walker, E. 1907. Ark. Bul. 95. p.48-49.
Warren, G.F. 1906. N.J. Bul. 194. 60 p.
See also DUSTING -- FUNGICIDES -- SPRAY INJURY -- SPRAY RESIDUES;
also subhead Control under various hosts.

Apparatus.

- Beach, S.A. 1903. N.Y.(Geneva) Bul. 243. p.315-373. (With V.A. Clark and O.M. Taylor)
Blair, J.C. 1899. Ill. Bul. 54. p.181-204.
Booth, N.O. 1900. Mo. Bul. 50. p.85-115.
Crane, H.L. 1919. W.Va. Bul. 169. 65 p.
Garver, H.L. 1927. Wash. Gen. Bul. 212. 42 p.
Melander, A.L. 1913. Wash Bul. 106. 40 p. (With R.K. Beattie)
Morris, O.M. 1924. Wash. Pop. Bul. 125. 20 p.
Moses, B.D. 1926. Calif. Bul. 406. 29 p. (With W.P. Duruz, and T.A. Wood)

Calendars.

- Britton, W.E. 1923. Conn. Bul. 244. p.183-225. (With G.P. Clinton)
Dutton, W.C. 1925a. Mich. Spec. Bul. 140. 29 p. (With R.H. Pettit, C.W. Bennett and H.A. Cardinell)
Green, W.J. 1917. Ohio Bul. 309. p.483-516. (With A.D. Selby and H.A. Gossard)
Starnes, H.N. 1907. Ga. Circ. 62. 18 p. (With J.F. Monroe)

Cooperative.

- Slingerland, M.V. 1906. N.Y.(Cornell) Bul. 235. p.79-98.

Costs.

- Ellenwood, C.W. 1924. Ohio Month. Bul. 9: 57-63.

- Spraying. Dry See DUSTING.
- Spraying. Effect on plants. See SPRAY INJURY -- SPRAY RESIDUES.
- Spraying. Machinery. See SPRAYING. Apparatus.
- Spraying. Materials. See FUNGICIDES.
- Spraying. Orchards. See subhead Control under APPLE--- CHERRY --
FRUIT AND FRUIT TREES - PEACH -- PEAR -- PLUM.
- Spraying. Pumps. See SPRAYING. Apparatus.
- Spraying in bloom. See APPLE. DISEASES. Control.
- SPRAYING ON A SMALL SCALE.
- Thayer, P. 1916. Ohio Month. Bul. 1: 114-116.
- Spraying versus dusting. See DUSTING.
- Spread of plant diseases. See PLANT DISEASES. Dissemination.
- SPRUCE. DISEASES.
- Hopkins, A.D. 1899; W.Va. Bul. 56. p.197-461.
- See also TREES. DISEASES.
- SQUASH. DISEASES.
- See also TRUCK CROPS. DISEASES.
- Choanephora cucurbitarum.
- Wolf, F.A. 1917a. Jour. Agr. Res. 8: 319-327. (N.C.-3)
- Storage and transportation rots.
- Cummings, M.B. 1925. Vt. Bul. 251. 35 p. (With E.W. Jenkins)
- Squirrel-tail grass. See HORDEUM JUBATUM.
- Stemphylium cucurbitacearum. See CUCUMBER. DISEASES.
- Sterigmatocystis castanea. See POMEGRANATE. DISEASES.
- Stigmatea fragariae. See STRAWBERRY. DISEASES. Leaf blight (Johnson,
S.W. 1879)
- STORAGE AND TRANSPORTATION ROTS.
- Nelson, R. 1926. Mich. Tech. Bul. 81. 38 p.
- See also APPLE. KEEPING QUALITIES -- ORANGE. DISEASES. Blue mold --
PEACH. DISEASES. Brown rot -- POTATO. DISEASES. Black heart --
POTATO. DISEASES. Fusarium; also subhead Storage and transporta-
tion rots under APPLE -- CRANBERRY -- LEMON -- ONION -- PEAR --
POTATO -- SQUASH -- SWEET POTATO.
- STRAWBERRY. DISEASES.
- Anderson, H.W. 1920b. Ill. Circ. 241: 143-147.
- Dudley, W.R. 1889a. N.Y.(Cornell) Bul. 14. p.169-183.
- Halsted, B.D. (1894) N.J. Rept. (1893) 14: 327-332.
- See also SMALL FRUITS. DISEASES.
- Ascochyta fragariae. See STRAWBERRY. DISEASES.
- Black root. Rhizoctonia.
- Coons, G.H. 1924c. Mich. Quart. Bul. 7: 25-26.
- Blight. See STRAWBERRY. DISEASES. Leaf blight.
- Botrytis cinerea. See STRAWBERRY. DISEASES. (Anderson, H.W. 1920b)
- Dendrophoma leaf blight. D. obscurans.
- Anderson, H.W. 1920a. Ill. Bul. 229. p. 125-136.
- Leaf scorch. Diplocarpon earliana.
- Wolf, F.A. 1926a. N.C. Tech. Bul. 28. 16 p.
- Leaf blight. Mycosphaerella fragariae (Ramularia tulasnei; Stigmatea
fragariae)
- Bailey, L.H. 1894b. N.Y.(Cornell) Bul. 79: 600-602.
- Beckwith, M.H. 1895. Del. Bul. 28: 15-16.

STRAWBERRY. DISEASES. (Cont.)

Leaf blight. *Mycosphaerella fragariae* (*Ramularia tulasnei*; *Stigmatea fragariae*) (Cont.)

Garman, H. 1890. Ky. Bul. 31: 3-13.

Goff, E.S. (1893) Wis. Rpt. (1891/92) 9: 284-287.

Johnson, S.W. 1879. Conn. Rpt. (1878) [2]: 108-111.

Trelease, W. 1885. Wis. Rpt. (1884) 2: 47-58.

Mildew. *Sphaerotheca humuli*. See STRAWBERRY. DISEASES (Anderson, H.W. 1920b)

Phyllosticta. See STRAWBERRY. DISEASES (Halsted, B.D. (1894))

Rhizoctonia. See STRAWBERRY. DISEASES. Black root.

Rhizopus nigricans. See STRAWBERRY. DISEASES (Anderson, H.W. 1920b)

Spot disease. See STRAWBERRY. DISEASES. Leaf blight.

STRAWBERRY. WEATHER INJURIES.

Wilcox, E.V. 1899. Mont. Bul. 22: 17-25.

Street trees. Diseases and injuries. See SHADE TREES. DISEASES AND INJURIES -- TREE SURGERY -- TREES. DISEASES.

SUDAN GRASS. DISEASES.

Thompson, G.E. 1916. Kans. Bul. 212: 16-20.

See also GRASSES AND FORAGE PLANTS. DISEASES.

Blight. See SUDAN GRASS. DISEASES.

Holcus bacterial spot. See PSEUDOMONAS HOLCI.

Smut. *Sphacelotheca sorghi*.

Melchers, L.E. 1916. Kans. Bul. 210: 15-17.

Wilt. See SUDAN GRASS. DISEASES.

SUGAR BEET. DISEASES.

Arthur, J.C. 1892. Ind. Bul. 39: 54-62. (With K.E. Golden)

Pammel, L.H. 1891b. Iowa Bul. 15: 234-254.

Aplanobacter teutlium. See SUGAR BEET. DISEASES. Soft rot.

Canker. See SUGAR BEET. DISEASES. Dry rot.

Curly leaf. See SUGAR BEET. DISEASES. Curly top.

Curly top.

Ball, E.D. 1917. Utah Bul. 155. 56 p.

Knowlton, G.F. 1927. Utah Circ. 65. 12 p.

Damping off.

Arthur, J.C. (1901) Ind. Rpt. (1899/1900) 13: 15-16.

Dry rot. *Corticium vagum*.

Richards, B.L. 1921b. Jour. Agr. Res. 22: 47-52. (Utah-14)

Leaf spot. *Cercospora beticola*.

Bessey, C.E. 1893. Nebr. Bul. 27: 27-29.

Duggar, B.M. 1899a. N.Y. (Cornell) Bul. 163: 352-359.

Root rot. *Rhizoctonia betae*.

Duggar, B.M. 1899a. N.Y. (Cornell) Bul. 163: 339-352.

See also SUGAR BEET. DISEASES. Damping off.

Rust. *Uromyces betae*. See SUGAR BEET. DISEASES (Pammel, L.H. 1891b)

Scab. *Oospora scabies*.

Duggar, B.M. 1899a. N.Y. (Cornell) Bul. 163: 359-361.

Soft rot. *Aplanobacter teutlium* (*Bacterium teutlium*)

Metcalf, H. 1904. Nebr. Rpt. (1903) 17: 69-112.

White rust. *Albugo bliti* (*Cystopus blitii*) See SUGAR BEET. DISEASES (Pammel, L.H. 1891b)

SUGAR BEET. WEATHER INJURIES.

Stewart, F.C. 1899a. N.Y.(Geneva) Bul. 162. p.165-178.

SUGAR CANE. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Edgerton, C.W. 1920c. La.Bul. 176. 7 p.

----- 1925b. Jour. Agr. Res. 29: 501-506. (La.-4) (With W.G. Taggart)

SUGAR CANE. DISEASES.

Edgerton, C.W. 1910b. La. Bul. 120. 23 p.

----- 1920a. La. Bul. 169. 40 p. (With C.C. Moreland)

----- 1924b. La. Bul. 191. 44 p. (With W.G. Taggart and E.C. Tims)

----- 1927. La. Bul. 197. 50 p. (With E.C. Tims)

Iliou or stem rot. *Gnomonia iliou*. See SUGAR CANE. DISEASES (Edgerton, C.W. 1920a)

Marasmius plicatus. See SUGAR CANE. DISEASES. Root disease. *Marasmius Mosaic*.

Edgerton, C.W. 1920c. La. Bul. 176. 7 p.

----- 1925b. Jour. Agr. Res. 29: 501-506. (La.-4) (With W.G. Taggart)

Miles, L.E. 1920. Miss. Bul. 191. 11 p.

Pineapple disease. *Thielaviopsis ethacetica*. See SUGAR CANE. DISEASES (Edgerton, C.W. 1910b)

Pokkah bong disease. See SUGAR CANE. DISEASES (Edgerton, C.W. 1927)

Red rot. See SUGAR CANE. DISEASES. Root disease. *Colletotrichum falcatum*,

Rind disease. *Melanconium sacchari*. See SUGAR CANE. DISEASES (Edgerton, C.W. 1920a)

Root disease. *Colletotrichum falcatum*.

Edgerton, C.W. La. Bul. 133. 22 p.

Fawcett, H.S. (1910). Fla. Rpt. 1909/10: lxiii-lxv.

Root disease. *Marasmius*.

Fulton, H.R. 1908a. La. Bul. 100. 21 p.

Thielaviopsis paradoxa. See SUGAR CANE. DISEASES (Edgerton, C.W. 1920a)

SUGAR CANE. SEED TREATMENT.

Edgerton, C.W. 1926. La. Bul. 195. 18 p. (With W.G. Taggart and E.C. Tims)

Sulphur. See FUMIGATION INJURY -- FUNGICIDES. Sulphur -- SOIL DISINFECTATION (Wheeler, H.J. 1898, 1899)

Summering over. See WHEAT. DISEASES. Rust. *Puccinia graminis*.

Sun scald. See APPLE. DISEASES. Scald -- FRUIT AND FRUIT TREES. DISEASES. Sun scald.

SUNFLOWER. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Spragg, F.A. 1920. Mich. Quart. Bul. 2: 128-129. (With E.E. Down)

SUNFLOWER. DISEASES.

Halsted, B.D. (1897) N.J. Rpt. (1896) 17: 350-351.

Downy mildew. *Plasmopara halstedii*. See SUNFLOWER. DISEASES.

Rust. *Puccinia helianthi*.

Bailey, D.L. 1923. Minn. Tech. Bul. 16. 32 p.

Septoria leaf spot. *S. helianthi*. See SUNFLOWER. DISEASES.

SUNFLOWER. DISEASES.

Wilt. Sclerotinia sclerotiorum.

Swingle, D.E. (1922) Mont. Rpt. (1920/21) 28: 42-44.

Susceptibility to disease. See PARASITISM AND DISEASE RESISTANCE.

Swede. See TURNIP.

Sweet corn. See MAIZE -- TRUCK CROPS.

SWEET PEA. DISEASES.

Cook, M.T. 1918a. N.J. Circ. 97: 17-18.

Taubenhaus, J.J. 1914. Del. Bul. 106. 93 p.

See also ORNAMENTAL PLANTS. DISEASES.

Anthracnose. *Glomerella rufomaculans*. See SWEET PEA. DISEASES.

Collar rot. *Sclerotinia libertiana*. See SWEET PEA. DISEASES.

Mosaic.

Taubenhaus, J.J. 1914. Del. Bul. 106: 53-61.

Physiological.

Haskins, H.D. 1913. Mass. Rpt. (1912, pt. II) 25: 71-79.

Powdery mildew. *Microsphaera alni*. See SWEET PEA. DISEASES (Cook, M.T. 1918a)

Streak. Bacillus lathyri.

Manns, T.F. 1915a. Del. Bul. 108. 44 p.

Thielavia basicola. See SWEET PEA. DISEASES.

SWEET POTATO. DISEASES.

Berly, J.A. 1924. S.C. Circ. 32: 25-29.

Cook, M.T. 1921c. N.J. Circ. 123. 24 p. (With R.F. Poole)

Halsted, B.D. 1890b. N.J. Bul. 76. 32 p.

----- 1891b. N.J. Spec. Bul. M. 19 p.

Neal, D.C. 1920. Miss. Bul. 190. 16 p.

Poole, R.F. 1922b. N.J. Bul. 365. 39 p.

----- 1922c. N.J. Circ. 141. 31 p.

----- (1922-27) N.J. Rpt. (1920/21) 42:466-468; (1921/22) 43: 554-560; (1923/24) 45: 392-399; (1924/25) 46: 484-507; (1925/26) 47: 347-355.

Rosa, J.T. 1925a. Calif. Circ. 285: 20-29.

Taubenhaus, J.J. 1915. Del. Bul. 109. 55 p. (With T.F. Manns)

----- 1919a. Tex. Bul. 249. 22 p.

Townsend, C.O. 1899. Md. Bul. 60. p.147-168.

Wilcox, E.M. 1906. Ala. Bul. 135. p.1-16.

See also TRUCK CROPS. DISEASES.

Albugo ipomoeae-panduranae. See SWEET POTATO. DISEASES (Cook, M.T. 1921c)

Bed rot. See SWEET POTATO. DISEASES. *Sclerotium rolfsii*.

Black rot. *Ceratostomella fimbriata* (*Sphaeronema fimbriatum*). See SWEET POTATO. DISEASES.

Blue stem. See SWEET POTATO. DISEASES. Vine wilt.

Dry black rot. *Sclerotium bataticola*. See SWEET POTATO. DISEASES (Cook, M.T. 1921c)

Dry rot. *Diaporthe batatatis*. See SWEET POTATO. DISEASES (Cook, M.T. 1921c)

Fusarium batatatis. See SWEET POTATO. DISEASES. Storage and transportation rots (Manns, T.F. 1920) -- SWEET POTATO, DISEASES.

Vine wilt.

SWEET POTATO. DISEASES. (Cont.)

Fusarium hypercresporum. See SWEET POTATO. DISEASES. Storage and transportation rots (Manns, T.F. 1920) -- SWEET POTATO. DISEASES. Vine wilt.

Monilochaetes infuscans. See SWEET POTATO. DISEASES. Soilstain. Mosaic.

Rosen, H.R. 1920, 1926b. Ark. Bul. 167. 10 p.; Bul. 213. 16 p.

Ozonium omnivorum. See SWEET POTATO. DISEASES (Taubenhaus, J.J. 1919a)

Plenodomus destruens. See SWEET POTATO. DISEASES (Berly, J.A. 1924)

Pox. Cytospora.

Elliott, J.A. 1918. Del. Bul. 114. 25 p.

Poole, R.F. (1924) N.J. Rpt. (1922/23) 44: 394-398.

Taubenhaus, J.J. 1918. Jour. Agr. Res. 13: 437-450. (Tex.-1)

Pox. Control.

Halsted, B.D. 1895c, 1897. N.J. Bul. 112. 20 p.; Bul. 120. 20 p.

----- 1900. N.J. Spec. Bul. S. 43 p.

Rhizopus nigricans. See SWEET POTATO. DISEASES (Cook, M.T. 1921c)

Rust. See SWEET POTATO. DISEASES. Soilstain.

Sclerotium bataticola. See SWEET POTATO. DISEASES (Cook, M.T. 1921c)

Sclerotium rolfsii.

Higgins, B.B. 1927. Ga. Circ. 80. p.218-221.

Scurf. See SWEET POTATO. DISEASES. Soilstain.

Septoria bataticola. See SWEET POTATO. DISEASES (Cook, M.T. 1921c)

Soil rot. See SWEET POTATO. DISEASES. Pox.

Soilstain. *Monilochaetes infuscans*.

Poole, R.F. (1924) N.J. Rpt. (1922/23) 44:387-393.

Taubenhaus, J.J. 1918. Jour. Agr. Res. 5: 995-1002. (Del.-1)

Stem rot. See SWEET POTATO. DISEASES. Vine wilt.

Storage and transportation rots.

Elliott, J.A. 1918a. Ark. Bul. 144. 12 p.

Manns, T.F. 1920. Del. Bul. 127: 11-23.

Price, J.C.C. 1923. Ala. Bul. 220. 14 p.

Texas root rot. *Ozonium omnivorum*. See SWEET POTATO. DISEASES (Taubenhaus, J.J. 1919a)

Trichoderma koningi. See SWEET POTATO. DISEASES (Cook, M.T. 1921c)

Vine wilt. *Fusarium*.

Poole, R.F. 1924. N.J. Bul. 401. 52 p.

Vine wilt. Control.

Martin, V.H. (1927) N.J. Rpt. (1926/27) 47: 225-232.

Poole, R.F. (1924) N.J. Rpt. (1922/23) 44: 398-404.

----- 1926. N.J. Bul. 433. 13 p.

White rust. *Albugo ipomoeae-panduranae*. See SWEET POTATO. DISEASES (Cook, M.T. 1921c)

Yellow stem. See SWEET POTATO. DISEASES. Vine wilt.

Synchytrium vaccinii. See CRANBERRY. DISEASES. Gall.

Take all. See CEREALS. DISEASES. Take all -- WHEAT. DISEASES. Take all.

Taphrina. See FLUM. DISEASES. Pockets.

Taphrina (Taphria) coerulescens. See OAK. DISEASES. Leaf curl.

Temperature. Effect on plant diseases. See PLANT DISEASE ORGANISMS.

Temperature influences -- PLANT DISEASES. Climatic factors.

THIELAVIA BASICOLA.

Johnson, J. 1916. Jour. Agr. Res. 7: 289-300. (Wis.-6. In cooperation with Bur. of plant indus.)

McCormick, F.A. 1925. Conn. Bul. 269. p.539-554.

See also SWEET PEA. DISEASES -- TOBACCO. DISEASES. Root rot -- VIOLET. DISEASES. Root rot.

Thielaviopsis ethacetica. See SUGAR CANE. DISEASES (Edgerton, C.W. 1910b)

THISTLE. DISEASES.

Rust. Puccinia suaveolens.

Halsted, B.D. (1894) N.J. Rpt. (1893) 14: 326-327.

Thread blights. See CORTICIUM STEVENSII.

Tilletia corona. See RICE. DISEASES. Smut.

Tilletia foetans. See CEREALS. DISEASES. Smut -- WHEAT. DISEASES. Smut. Stinking smut.

Tilletia horrida. See RICE. DISEASES. Smut.

Tilletia laevis. See CEREALS. DISEASES. Smut -- WHEAT. DISEASES. Smut. Stinking smut.

Tilletia tritici. See WHEAT. DISEASES. Smut. Stinking smut.

TIMOTHY. DISEASES.

See also GRASSES AND FORAGE PLANTS. DISEASES.

Leaf smut. See TIMOTHY. DISEASES. Smut.

Rust. Puccinia araminis.

Stakman, E.C. 1916d. Jour. Agr. Res. 6: 813-816. (Minn.-9. In cooperation with Bur. of plant indus.) (With F.J. Piemeisel)

Rust. Puccinia phlei-pratensis.

Pammel, L.H. 1912. Iowa Bul. 131: 199-208. (With C.M. King)

Stakman, E.C. 1915b. Jour. Agr. Res. 5: 211-216. (Minn.-6) (With L. Jensen)

Smut. Ustilago striiformis.

Davis, W.H. 1928. Jour. Agr. Res. 32: 69-76. (Mass.-13)

Osner, G.A. 1916. N.Y.(Cornell) Bul. 331. p.185-230.

TOAD-FLAX. DISEASES.

Anthracnose. Colletotrichum antirrhini?

Stewart, F.C. 1901c. N.Y.(Geneva) Bul. 200: 87-89. (With H.J. Eustace)

TOBACCO. DISEASE RESISTANCE AND RESISTANT VARIETIES.

Orton, C.R. 1925. Penn. Bul. 193. 15 p. (With C. Olson)

Valleau, W.D. 1922. Ky. Circ. 28. 16 p. (With E.J. Kinney)

TOBACCO. DISEASES.

Chapman, G.H. 1920. Mass. Bul. 195: 23-31, 53.

Clinton, G.P. 1927. Conn. Tobacco Sta. Bul. 8. p.55T-57T. (With P.J. Anderson)

Jenkins, E.H. 1914. Conn. Bul. 180: 46-57.

Johnson, J. 1914a. Wis. Bul. 237. 34 p.

----- 1914c. Wis. Res. Bul. 32: p.63-86.

TOBACCO. DISEASES. (Cont.)

- Johnson, J. 1925b. Wis. Res. Bul. 53. 12 p.
Selby, A.D. 1904b. Ohio Bul. 156: 87-107.
Sturgis, W.C. (1899) Conn. Rpt. (1898) 22: 242-260.
Tisdale, W.B. 1922. Fla. Bul. 166. 118 p.
----- 1922-26. Fla. Rpt. 1921/22: 63R-75R; 1922/23: 128R-
139R; 1923/24; 121R-139R; 1924/25: 32R-37R; 1925/26: 105R-
109R.

Angular leaf spot. Bacterium angulatum.

- Fromme, F.D. 1919b. Jour. Agr. Res. 16: 219-228. (Va. (Blacks-
burg)-2) (With T.J. Murray)
----- 1923a. Va. Bul. 238. 19 p. (With S.A. Wingard)
----- 1922c. Va. Tech. Bul. 25. 43 p. (With S.A. Win-
gard)

Bacterium tabaccum. See TOBACCO. DISEASES. Wildfire.

Blackfire. See TOBACCO. DISEASES. Angular leaf spot.

Black root. See TOBACCO. DISEASES. Root rot.

Black shank. See TOBACCO. DISEASES. Phytophthora nicotianae.

Calico. See TOBACCO. DISEASES. Mosaic.

Frog eye or speckling. See TOBACCO. DISEASES. Leaf spot. Cercospora
nicotianae.

Granville wilt. Bacterium solanacearum. See TOBACCO. DISEASES. Wilt.

Leaf spot. Cercospora nicotianae.

- Sturgis, W.C. (1897) Conn. Rpt. (1896) 20: 273-278.

Mosaic.

- Chapman, G.H. (1913) Mass. Rpt. (1912, pt. II) 25: 41-51.
----- 1917. Mass. Bul. 175. p. 73-117.
Clinton, G.P. (1915) Conn. Rpt. (1914) 38: 357-424.
See also MOSAIC DISEASES.

Phyllosticta nicotianae. See TOBACCO. DISEASES (Tisdale, W.B. 1922)

Physiological.

- Haskins, H.D. 1912. Mass. Rpt. (1911, pt. II) 24: 35-46.

Phytophthora nicotianae.

- Tisdale, W.B. 1926a. Fla. Bul. 179. p. 159-219. (With J.G.
Kelley)

Root rot. Thielavia basicola.

- Anderson, P.J. 1926. Mass. Bul. 229. p. 117-136. (With A.V.
Osmund and W.L. Foran)
Clinton, G.P. (1907-08) Conn. Rpt. (1906) 30: 342-368; (1907)
31: 363-368.
Houser, T. 1920. Ohio Month. Bul. 5: 232-234.
Jenkins, E.H. 1906. Conn. Bul. Immed. Inform. 4. 11 p. (With
G.P. Clinton)
Johnson, J. 1919. Jour. Agr. Res. 17: 41-86. (Wis.-15. In co-
operation with Bur. of plant indus.) (With R.E. Hartman)
Orton, C.R. 1925. Penn. Bul. 193. 15 p. (With O. Olson)
Selby, A.D. 1915c. Ohio Circ. 156. p. 5-8. (With T. Houser
and J.G. Humbert)
Valleau, W.D. 1925. Ky. Bul. 262. p. 157-180. (With R. Kenney
and E.J. Kinney)

TOBACCO. DISEASES. (Cont.)

Wildfire. Bacterium tabacum.

- Anderson, P.J. 1923. Mass. Bul. 213. 27 p. (With G.H. Chapman)
Chapman, G.H. 1921. Mass. Bul. 203. p.65-81. (With P.J. Anderson)
Clinton, G.F. 1922. Conn. Bul. 239. p.355-421. (With F.A. McCormick)
Fromme, F.D. 1922a. Va. Bul. 228. 19 p. (With S.A. Wingard)
Johnson, J. 1922. Wis. Bul. 348. 21 p. (With S.B. Fracker)
----- 1925a. Wis. Res. Bul. 62. 35 p. (With H.F. Murwin)
Wolf, F.A. 1918a. Jour. Agr. Res. 12: 449-458. (N.C.-9)
(With A.C. Foster)
----- 1922. N.C. Bul. 246. 26 p.

Wilt. Bacterium solanacearum.

- Stevens, F.L. 1903c. N.C. Bul. 188. p.77-96. (With W.G. Sackett)
----- (1906) N.C. Rpt. (1904/05) 28: 21-29.

TOBACCO. SPRAY INJURY.

- Tisdale, W.B. 1926b. Fla. Bul. 182. p.279-286. (With J.G. Kelley)

TOMATO. ABNORMAL GROWTHS.

- Atkinson, G.F. 1893a. N.Y.(Cornell) Bul. 53. p.75-108.

TOMATO. DISEASE RESISTANCE AND RESISTANT VARIETIES.

- Edgerton, C.W. 1921d. La. Bul. 184. 24 p. (With C.C. Moreland)
Essary, S.H. 1912. Tenn. Bul. 95. p.1-12.
Green, S.N. 1918. Ohio Month. Bul. 3: 43-48. (With J.G. Humbert)
Lesley, J.W. 1924. Calif. Circ. 274. 6 p.
----- 1926a. Calif. Hilgardia 2: 25-45. (With J.T. Rosa)
----- 1926b. Calif. Hilgardia 2: 47-66.
Stanford, E.E. 1917. N.C. Rpt. (1916/17) 40: 92-93.
Stuckey, H.P. 1916a. Ga. Bul. 121. p.81-91.

TOMATO. DISEASES.

- Bailey, L.H. 1892. N.Y.(Cornell) Bul. 43. p.149-158.
Barre, H.W. 1910. S.C. Bul. 153: 31-36.
Brown, H.D. 1924. Ind. Bul. 288: 19-24.
Chester, F.D. (1892) Del. Rpt. (1891) 4: 60-63.
Cook, M.T. 1917a, 1918d. N.J. Circ. 71. 8 p.; Circ. 104. 15 p. (With W.H. Martin)
Earle, F.S. 1900b. Ala. Bul. 108: 19-33.
Edgerton, C.W. 1913b. La. Bul. 143. 23 p. (With C.C. Moreland)
Fulton, H.R. 1914. N.C. Circ. 19. 8 p.
Giddings, N.J. 1917. W.Va. Bul. 165. 24 p.
Halsted, B.D. (1904) N.J. Rpt. (1903) 24: 545-550.
Hewitt, J.L. 1914. Ark. Circ. 21. 4 p.
Humbert, J.G. 1918a. Ohio Bul. 321. p.157-196.
Norton, J.B.S. 1914. Md. Bul. 180: 102-114.

TOMATO. DISEASES. (Cont.)

- Orton, C.R. 1918. Penn. Rpt. 1915/16: 285-291. (With W. H. McKinney)
Pool, V.W. 1908. Nebr. Rpt. (1907) 21: 1-33.
Poole, R.F. (1924-25) N.J. Rpt. (1922/23) 44:376-386; (1923/24) 45: 400-403.
Quinn, J.T. 1924. Mo. Bul. 212: 11-14.
Rogers, S.S. 1913. Calif. Bul. 239. p.591-617.
Rolfs, F.H. 1893a, 1898, 1907, 1913. Fla. Bul. 21. 38 p.; Bul. 47. p.115-153; Bul. 91. p.13-34; Bul. 117. p.33-43.
Sherbakoff, C.D. 1918. Fla. Bul. 146. p.117-132.
Smith, R.E. 1906b. Calif. Bul. 175. 16 p.
Stone, G.E. 1911. Mass. Bul. 138. 32 p.
Weber, G.F. 1926. Fla. Bul. 185. p.57-138. (With G.B.Ramsey)
Yaw, F.L. 1924. Calif. Circ. 280: 17-29.
See also TRUCK CROPS. DISEASES.

Control.

- Bennett, E.R. 1906. Conn.(Storrs) Bul. 41. p.48-65.
Fromme, F.D. 1916. Va. Bul. 213. 14 p. (With H.E. Thomas)
----- 1922b. Va. Bul. 230. 15 p.
Martin, W.H. (1917) N.J. Rpt. (1915/16) 37: 575-583.
Norton, J.B.S. 1916. Md. Bul. 192. p.17-30.
Rosa, J.T. 1923b. Calif. Circ. 263: 15-19.
Stewart, F.C. (1896) N.Y.(Geneva) Rpt. (1895) 14: 529-531.
Alternaria solani. See TOMATO. DISEASES (Weber, G.F. 1926)

Anthracnose. Colletotrichum phomoides.

- Chester, F.D. (1894) Del. Rpt. (1893) 6: 111-115.
Harvey, F.L. (1894) Maine Rpt. (1893) 9: 154-155.

Bacterial.

- Stuart, W. 1901. Ind. Rpt. (1899/1900) 13: 33-36.
See also under TOMATO. DISEASES the subheads: Bacterial canker --
Crown gall -- Southern blight.

Bacterial canker. Bacterium vesicatorium (B. exitiosum)

- Gardner, M.W. 1921a. Ind. Bul. 251. 15 p. (With J.B.Kendrick)
----- 1921b. Jour. Agr. Res. 21: 123-156. (Ind.-9) (With
J.B. Kendrick)

Bacterial rot. *Bacillus carotovorus* and *B. aroideae*. See TOMATO. DISEASES (Weber, G.F. 1926)

Bacterial wilt. See TOMATO. DISEASES. Southern blight.

Bacterium solanacearum. See TOMATO. DISEASES. Southern blight.

Bacterium tumefaciens. See TOMATO. DISEASES. Crown gall.

Blight. See under TOMATO. DISEASES the subheads: Late blight --
Leaf spot -- Scald -- Southern blight -- Wilt -- Yellow blight.

Blossom drop.

- Rolfs, F.M. 1918-20. Okla. Rpt. (1917/18) 27: 40-43; (1918/19) 28: 44-45; (1919/20) 29: 47-48.

TOMATO. DISEASES. (Cont.)

Blossom end rot.

- McKay, M.B. 1921. Oreg. Crop Pest Rpt. (1915/20) 3: 185-186.
Smith, E.H. 1907. Mass. Tech. Bul. 3, 19 p.
Stone, G.E. 1911. Mass. Bul. 138. 32 p.
Stuckey, H.P. 1911. Ga. Bul. 96: 69-91. (With J.C. Temple)
----- 1915, 1916a. Ga. Bul. 112: 228-245; Bul. 121.
p.81-91.

Botrytis sp.

- Thomas, R.C. 1921b. Ohio Month. Bul. 6: 59-62.

Brown rot. *Bacterium solanacearum*. See TOMATO. DISEASES. Southern blight.

Buckeye rot. *Phytophthora terrestris*.

- Sherbakoff, C.D. (1917-19) Fla. Rpt. 1915/16: 88R-89R; 1916/17: 78R-79R; 1917/18: 74R-75R.

Canker. See TOMATO. DISEASES. Bacterial canker.

Collar rot. *Rhizoctonia solani*. See TOMATO. DISEASES (Weber, G.F. 1926)

Colletotrichum phomoides. See TOMATO. DISEASES. Anthracnose.

Crown gall. *Bacterium tumefaciens*.

- Riker, A.J. 1923a, 1923b. Jour. Agr. Res. 25:119-132. (Wis.-22);
26: 425-436. (Wis.-25)

Damping off. See TOMATO. DISEASES (Weber, G.F. 1926)

Downy mildew. *Phytophthora infestans*. See TOMATO. DISEASES. Late blight.

Early blight. See TOMATO. DISEASES. *Macrosporium tomato*.

Fruit rots. See under TOMATO. DISEASES the subheads: Anthracnose --
Bacterial canker -- Blossom end rot -- Buckeye rot -- Macro-
sporium tomato.

Fusarium lycopersici. See TOMATO. DISEASES. Wilt.

Late blight. *Phytophthora infestans*.

- Berg, A. 1926. W.Va. Bul. 205. 31 p.
Reed, H.S. 1911b. Va. Bul. 192. 16 p.

Leaf mold. *Cladosporium fulvum*.

- Gardner, M.W. 1925b. Jour. Agr. Res. 31: 519-540. (Ind.-14)

Leaf spot. *Septoria lycopersici*.

- Coons, G.H. 1917. Mich. Spec. Bul. 81. 15 p. (With E. Levin)
Essary, S.H. 1927. Tenn. Circ. 8. 4 p.
Levin, E. 1916a. Mich. Tech. Bul. 25. 51 p. (With E.A. Bessey
and G.H. Coons)
Reed, H.S. 1911b. Va. Bul. 192. 16 p.
Selby, A.D. 1897b, 1899b. Ohio Bul. 89: 118-121; Bul. 105: 232-
234.

Leaf spot. Control.

- Fromme, F.D. 1916. Va. Bul. 213. 14 p. (With H.E. Thomas)
Martin, W.H. (1918) N.J. Rpt. (1916/17) 38: 540-561.
----- 1920. N.J. Bul. 345. 43 p.
Muncie, J.H. 1922. Penn. Bul. 177. 23 p.

Macrosporium tomato.

- Beach, S.A. 1897a. N.Y. (Geneva) Bul. 125: 305-306.

TOMATO. DISEASES. (Cont.)

Mosaic.

- Chapman, G.H. (1908) Mass. Rpt. (1907) 20: 136-144.
----- (1913) Mass. Rpt. (1912, pt. II) 25: 41-51.
Gardner, M.W. 1922. Ind. Bul. 261. 24 p. (With J.B. Kendrick)
----- 1925a. Jour. Agr. Res. 30: 871-888. (Ind.-16)
McKay, M.B. 1921. Oreg. Crop Pest Rpt. (1915/20) 3: 179-184.
Nailhead rust. *Alternaria solani*. See TOMATO. DISEASES (Weber, G.F. 1926)

Necrosis. See TOMATO. DISEASES. Mosaic.

Oedema. See TOMATO. ABNORMAL GROWTHS.

Oospora lactis parasitica. See TOMATO. DISEASES (Weber, G.F. 1926)

Phoma destructiva. See TOMATO. DISEASES. (Weber, G.F. 1926)

Physiological.

Jones, L.R. (1893) Vt. Rpt. (1892) 6: 88.

See also TOMATO. ABNORMAL GROWTHS; and under TOMATO. DISEASES
the subheads: Blossom drop -- Blossom end rot -- Scald.

Phytophthora infestans. See TOMATO. DISEASES. Late blight.

Phytophthora terrestria. See TOMATO. DISEASES. Buckeye rot.

Rhizoctonia solani. See TOMATO. DISEASES (Weber, G.F. 1926).

Ripe rot. See TOMATO. DISEASES. Anthracnose.

Rot. See TOMATO. DISEASES. Late blight.

Scald.

Britton, W.E. 1897. Conn. Rpt. (1896) 20: 232-234. (With S.W. Johnson)

Septoria lycopersici. See TOMATO. DISEASES. Leaf spot.

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Rust.

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Smut.

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Smut.

- Arthur, J.C. 1889b. Ind. Bul. 28. 23 p.
----- 1910. Ind. Circ. 22. 15 p. (With A.G. Johnson)
Schmitz, N. 1910. Md. Bul. 147: 40-45.
Selby, A.D. 1895. Ohio Bul. 64. p. 115-139.

Smut. Control.

- Arthur, J.C. 1890. Ind. Bul. 32: 3-9.
Barss, H/P. 1922. Oreg. Circ. 30. 3 p.
Fox, C.P. 1893. Idaho Bul. 4: 2-6.
Harwood, P.M. 1892. Mich. Bul. 87. 10 p.
Henderson, L.F. 1906b. Idaho Bul. 53. 15 p.
Hickman, J.F. 1898. Ohio Bul. 97: 43-61. (With A.D. Selby)
Roberts, H.F. 1910. Kans. Circ. 12. 4 p. (With P.W. Graff)
Stevens, F.L. 1910b. W.C. Bul. 212. p. 71-84.
Thomas, R.C. 1925. Ohio Bul. 390. p. 405-423.

Smut. Flag smut. Urocystis tritici.

- Reed, G.M. 1920a. Ill. Circ. 242. 4 p. (With G.H. Dungan)
Tisdale, W.H. 1923. Ill. Bul. 242. p. 507-538. (With G.H. Dungan and C.E. Leighty)

WHEAT. DISEASES. (Cont.)

Smut. Loose smut. Ustilago tritici.

Brentzel, W.E. 1926. N.Dak. Circ. 29. 11 p.

Smut. Stinking smut. Tilletia tritici and T. laevis (T. foetans)

Bolley, H.L. 1897. N.Dak. Bul. 27. p.107-162.

Brown, J.G. 1923. Ariz. Timely Hints 143. 12 p.

Gaines, E.F. 1923. Jour. Agr. Res. 23: 445-480. (Wash.-1)

----- 1926. Jour. Agr. Res. 32: 165-181. (Wash.-7) (With
H.P. Singleton)

Griffiths, D. 1900. Ariz. Timely Hints 20. 4 p.

Heald, F.D. 1915b. Wash. Bul. 126. 24 p. (With H.M. Woolman)

----- 1918a. Wash. Bul. 151. 23 p. (With D.C. George)

----- 1918b. Wash. Pop. Bul. 115. 14 p.

Hickman, J.F. 1890. Ohio Bul. (Ser.2) 21 (v.3, no.6): 205-208.

Stephens, D.E. 1922. Oreg. Bul. 188. 42 p. (With H.M. Woolman)

Thatcher, L.E. 1921. Jour. Agr. Res. 21: 699-700. (Ohio-3)

Smut. Stinking smut. Control.

Coons, G.H. 1922c, 1923c, 1924. Mich. Quart. Bul. 5: 8-11; 6:
3-8; 7: 21-24.

Hays, W.M. 1895. Minn. Bul. 46: 362-368.

Heald, F.D. 1922. Wash. Bul. 168. 15 p.; Bul. 171. 28 p.

(With L.J. Smith)

Kellerman, W.A. 1890. Kans. Bul. 12. p.27-51. (With W.T.
Swingle)

----- 1891b. Kans. Bul. 21. p.17-72.

Mackie, W.W. 1923. Calif. Bul. 364. p.533-572. (With F.N.
Briggs)

Melchers, L.E. 1924b. Kans. Circ. 107. 14 p. (With H.B.
Walker)

Reed, J. 1903. Colo. Bul. 79. 8 p.

Richards, B.L. 1926a. Utah Circ. 59. 8 p. (With A.F. Bracken)

Thomas, R.C. 1924a. Ohio Month. Bul. 9: 22-27.

----- 1927. Ohio Bi-month. Bul. 12: 115-117. (With W.G.
Stover and H.A. Runnels)

Wheeler, W.A. 1904. S.Dak. Bul. 89. 19 p.

Smut diseases. Resistant varieties.

Gaines, E.F. 1923. Jour. Agr. Res. 23: 445-480. (Wash.-1)

Tisdal, W.H. 1923. Ill. Bul. 242. p.507-538. (With G.H.
Dungan and C.E. Leighty)

Stem rust. See WHEAT. DISEASES. Rust. Puccinia graminis.

Stinking smut. See WHEAT. DISEASES. Smut. Stinking smut.

Take all. Ophiobolus cariceti.

Rosen, H.R. 1923. Jour. Agr. Res. 25: 351-358. (Ark.-4)
(With J.A. Elliott)

See also CEREALS. DISEASES. Take all -- WHEAT. DISEASES. Rosette.

Tilletia foetans. See WHEAT. DISEASES. Smut. Stinking smut.

Tilletialaevis. See WHEAT. DISEASES. Smut. Stinking smut.

Tilletia tritici. See WHEAT. DISEASES. Smut. Stinking smut.

Urocystis tritici. See WHEAT. DISEASES. Smut. Flag smut.

Ustilago tritici. See WHEAT. DISEASES. Smut. Loose smut.

WHEAT. DISEASES. (Cont.)

Yellow berry.

Headden, W.P. 1915-16. Colo. Bul. 205. 38 p.; Bul. 219:30-47.

Jones, J.S. 1926. Jour. Agr. Res. 33: 281-292. (Oreg.-12)
(With G.A. Mitchell)

Roberts, H.F. 1908. Kans. Bul. 156. 35 p. (With G.F. Freeman)

----- 1919. Jour. Agr. Res. 18: 155-169. (Kans.-19)

Yellow stripe rust. *Puccinia glumarum*. See WHEAT. DISEASES (Weniger, W. 1923)

Wheat. Resistant varieties. See WHEAT. DISEASE RESISTANCE AND RESISTANT VARIETIES -- WHEAT. DISEASES. Rust. Resistant varieties -- WHEAT. DISEASES. Smut diseases. Resistant varieties.

WHEAT. SEED TREATMENT.

Barss, H.P. 1922. Oreg. Circ. 30. 3 p.

Harper, D.N. 1890. Minn. Bul. 11: 99-116.

Hoffman, A.H. 1925. Calif. Bul. 391. 16 p. (With H.L. Felton)

See also CEREALS. DISEASES. Smut. Control -- WHEAT. DISEASES. Smut. Control.

WHEAT. WEATHER INJURIES.

Harper, D.N. 1890. Minn. Bul. 11: 99-116.

Lugger, O. 1889. Minn. Bul. 5: 46-67.

Porter, E.D. 1890. Minn. Bul. 6: 5-10.

WHITE PINE. DISEASES.

See also CONIFERS -- FINE -- TREES.

Blister rust. Cronartium ribicola.

Baxter, D.V. 1923. Mich. Quart. Bul. 5: 193-196. (With G.H. Coons)

Filley, W.O. 1922. Conn. Bul. 237. p.305-326. (With H.W. Hicock)

Stewart, F.C. 1906b. N.Y.(Geneva) Tech. Bul. 2. p.61-74.

Stone, G.E. (1913) Mass. Rpt. (1912, pt. I) 25: 41-44.

WILD PLANTS. DISEASES.

Arthur, J.C. (1885) N.Y.(Geneva) Rpt. (1885) 4: 289-292.

Halsted, B.D. (1892-93) N.J. Rpt. (1891) 12: 242-246; (1892) 15: 342-349.

Kellerman, W.A. (1889) Kans. Rpt. (1888) 1: 344-346. (With W.T. Swingle)

Williams, F.A. 1891. S.Dak. Bul. 29: 29-52.

See also GRASSES AND FORAGE PLANTS. DISEASES.

WILD PLANTS. (ALLIUM). DISEASES.

Smut. Urocystis cepulae.

Anderson, P.J. 1925. Jour. Agr. Res. 31: 275-286. (Mass.-11)

WILD PLANTS (XYLORRHIZA PARRYI) DISEASES.

Rust. Puccinia xylorrhizae.

Nelson, A. 1911. Wyo. Bul. 38: 10-12.

Wilt diseases. See MUSARIUM DISEASES.

Wind dissemination of fungus spores. See FUNGUS SPORES: DISSEMINATION.

Winter injury. See FREEZING AND FROST INJURY -- WEATHER INJURY; and subhead Weather injuries under various plants.

WINTERING OVER.

- Johnson, J. 1925a. Wis. Res. Bul. 62. 43 p. (With H.F. Murwin)
Muncie, J.H. 1917. Mich. Tech. Bul. 33: 15-22.
Peltier, G.L. 1918b. Jour. Agr. Res. 14: 523-524. (Ala.-3. In cooperation with Bur. of plant indus.) (With D.C. Neal)
----- 1922-25. Nebr. Res. Bul. 22. 15 p.; Res. Bul. 25. 52 p.; Res. Bul. 34. 12 p.; Res. Bul. 35. 11 p.
----- 1926c. Jour. Agr. Res. 32: 335-345. (Ala.-12. In cooperation with Bur. of plant indus.) (With W.J. Frederick)
Stewart, F.C. 1914a. N.Y. (Geneva) Bul. 374. p.39-53. (With W.H. Rankin)

WITCHES BROOM. EXOASCUS CERASI.

- Stewart, F.C. (1896) N.Y. (Geneva) Rpt. (1895) 14: 532-533.
See also POTATO. DISEASES (Coons, G.H. 1925d)

WOOD DESTROYING FUNGI.

- Clinton, G.P. 1924b. Conn. Bul. 263: 190-192.
Edgerton, C.W. 1924a. La. Bul. 190. 12 p.
Longyear, B.O. 1926. Colo. Bul. 307. 58 p.

Merulius lachrymans.

- Clinton, G.P. (1907) Conn. Rpt. (1906) 30: 336-341.

Woody plants. See ORNAMENTAL PLANTS -- TREES.

Wounded plants. See ABNORMAL GROWTHS (Wolf, F.A. 1918b) -- APPLE. DISEASES. Collar rot.

Wounded plants. Treatment. See TREE SURGERY.

Xylaria. See APPLE. DISEASES. Xylaria root rot.

Xylorrhiza parryi. Diseases. See WILD PLANTS (XYLORRHIZA PARRYI). DISEASES. Rust.

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