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Preliminary List of Fungi and Diseases of Roses
in the United States

August 15, 1928

BUREAU OF
PLANT INDUSTRY
UNITED STATES DEPARTMENT OF AGRICULTURE

PRELIMINARY LIST OF FUNGI AND DISEASES OF ROSES IN THE UNITED STATES

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IMPORTANCE OF ROSE PLANT PRODUCTION

Of all the ornamental flowers grown both in greenhouse and garden, the rose seems to be the universal favorite. Large quantities of rose plants are produced in the United States, and many are imported each year. Statistics for the latter appeared in the American Rose Annual (1) for 1927 as follows:

"During the fiscal year ended June 30, 1926, some 28,556 finished rose plants came in under special permits. The inclusive total of such importations since the beginning of the quarantine in 1919 is 110,997.

"Of rose stocks there came during the fiscal year a total of 10,884,920. This was 2,545,395 more than for the previous year or more than 30 per cent of an increase in foreign-grown stocks for roses.

"Of this large total, England supplied 3,994,900, France 1,816,250, and Holland 4,805,470. The largest quantities came to New York City as 3,220,636; to New Jersey 1,110,509, and to Ohio, 1,370,025."

An important rose grower has stated that ten million plants would be a conservative estimate of the number of outside-grown rose plants produced in the United States and that about the same number is grown for greenhouse purposes. The revenue received in New York City alone from the sale of roses is said to average from ten to fifteen million dollars annually.

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(1) Editors Notes: Importation of rose stocks and roses. Amer. Rose Annual for 1927. p. 229.

SCOPE OF LIST

This list comprises the fungi, bacteria, and a few undetermined troubles occurring on the rose which have been reported to the Office of Mycology and Disease Survey, Bureau of Plant Industry. Saprophytic as well as parasitic organisms have been included. The list gives the distribution of the diseases by States, varieties of roses affected where known, and year of first report to the Plant Disease Survey or first date of publication, or date of collection in the case of a specimen. Where available at least one selected literature reference has been cited for each disease. These are not necessarily references of first description but are intended to give readers a starting point in case they wish to look up the literature more fully.

A general request for specimens and other data pertaining to rose diseases which was sent out to collaborators and those interested in roses aided in making the information more complete. During the past two years the writers have done considerable collecting of rose diseases in the District of Columbia and in some of the States, thereby also adding more information to the report. Where specimens are found in the mycological collections they are noted by an asterisk (*) but this does not mean that they all have been examined by the writers.

LIST OF FUNGI AND DISEASES

Actinonema rosae (Lib.) Fr. - see Diplocarpon rosae Wolf.

Alternaria sp.

Rosa sp., R. hugonis, R. serrulata.

*Ala. (1875), *Ga. (1926), *Me. (1926), *Mich. (1926), *Miss. (1926), *Va. (1923).

Ameris rosicola (Ell. & Ev.) Arth. - see Uromyces rosicola Ell. & Ev.

Apiosporella rhodophila (Sacc.) v. Hoehn., canker. Rehm, H. Ann. Myc. 13: 2. 1915.

Rosa setipoda, *Md. (1926).

Armillaria mellea (Vahl) Quel., root rot. Sacc. Syll. Fung. 5: 80.
Rosa sp., Oreg. (1913).

Aspergillus terreus Thom. Thom, Chas. and Margaret B. Church, Amer.
 Jour. Bot. 5: 85. 1913.
Rosa sp., *Va. (1923).

Asteroma rosae Lib. - see Diplocarpon rosae Wolf.

Bacillus amylovorus (Burr.) Trev., blight. Waite, M. B. U. S. D. A.
 Off. Rec. 4 (31): 5. 1925.
Rosa sp., by inoculation. Has not been found out of doors.

Bacterium tumefaciens EFS. & Town., crown gall. Smith, E. F. and C. O.
 Townsend. Science, n.s. 25: 672. 1907.
Rosa spp., R. manetti, R. rugosa and varieties Golden Emblem and Ophelia
 Ariz. (1926), *Calif. (1925), Conn. (1916), *D. C., Fla. (1923),
 Ga. (1925), Ill. (1906), *Ind. (1921), La. (1923), Md. (1909),
 Mass. (1915), Mich. (1913), Minn. (1913), Miss. (1923), Mo.
 (1907), N. H. (1916), N. J. (1913), N. Mex. (1916), N. Y.
 (1906), N. D. (1923), Ohio (1915), *Pa. (1917), S. C. (1922),
 Texas (1926), *Wash. (1915).

Blastocladia tenuis Kanouse. Kanouse, B. B. Am. Jour. Bot. 14: 301.
 1927.
Rosa sp., Mich. (1927).

Botryosphaeria ribis Gross. & Dug., cane blight. Grossenbacher, J. G.
 and B. M. Duggar. New York Agr. Exp. Sta. Bull. 18: 183. 1911.
Rosa adenosephala, R. banksiopsis, R. bella hyb., R. bella x moyesii,
R. bracteata, R. caudata, R. l'heritierana, R. moyesii x canina,
R. multibracteata, R. pratincola, R. rugosa x Victor Hugo, R.
setipoda hyb., R. suffulta, R. willmottea, R. woodsi, and
 variety Columbia (pink).
 *Md. (1922), *Va. (1923).

Botrytis sp., cinerea type, bud blight.
Rosa spp., hybrid teas and perpetuals, and variety Radiance; common
 on certain white flowered varieties.
 Calif. (1926), Dela. (1910) *D. C. (1922), Fla. (1925), Ga. (1925),
 *Ind. (1913), Me. (1926), *Md. (1909), *Mass. (1916), Mich.
 (1915), *Miss. (1923), Mont. (1924), N. J. (1920), N. Y. (1915),
 Ohio (1913), *Pa. (1924), *R. I. (1926), S. C. (1923), Texas
 (1915), *Va. (1924), *Wash. (1916).

Caenoma radicicola (Greef) Cobb, root knot. Bessey, U.S. Dept. Agr.,
 B.P.I. Bull. 217.
Rosa spp., R. multiflora.
 Ala. (1905), D. C. (1927), Ga. (1926), Mich. (1920), Nebr. (1905),
 N. J. (1923), Ohio, Texas (1926), W. Va. (1906).

Cercospora rosicola Pass., leaf spot. Sacc. Syll Fung. 4: 460.

Rosa spp., R. arkansana, R. blanda, R. indica, R. lucida, R. nitida,
R. nutkana, R. pratincola, R. setigera, R. suffulta, and varieties
Crimson Rambler and Silver Moon.

*Ala. (1901), *Conn. (1902), *D. C. (1887), *Fla. (1882), *Ga. (1915),
*Ill. (1886), *Ind. (1890), *Iowa (1905), *Kans. (1888), *La. (1886),
*Me. (1900), *Mass. (1926), *Mich. (1923), Minn. (1920), *Miss. (1916),
*Mo. (1887), *Nebr. (1890), N. J. (1918), *N. Y. (1913), *Pa. (1924),
*S. C. (1923), *Tenn. (1923), *Texas (1908), *Wash. (1892),
W. Va. (1910), Wis. (1914).

Cercospora rosicola Pass. var undosa Davis, leaf spot. Davis, J. J.

Trans. Wisconsin Acad. Sci. 20: 405. 1921.

Rosa humilis, Wis. (1922).

Cercospora rosigena Tharp, leaf spot. Tharp, B. C. Mycol. 9: 114. 1917.

Rosa sp., *Texas (1915).

Cladosporium fuscum Link, leaf spot. Sacc. Syll. Fung. 4: 352.

Rosa sp., Miss. (1906).

Cladosporium sp., leaf spot.

Rosa sp., R. gentiliana, R. hugonis, *Ind. (1923), *Md. (1923), *Minn.
(1926), *Miss. (1927).

Comandra umbellata (L.) Nutt. Jour. Agr. Res. 5: 134. 1915.

Rosa blanda, R. canina.

Coniosporium limoniforme Syd. Sydow, H. and F. Sydow. Ann. Mycol. 6:
484. 1908.

Rosa sp., Utah (1908).

Coniothyrium fuckelii Sacc., cane blight - see Leptosphaeria coniothyrium
(Fckl.) Sacc.

Coniothyrium rosarum Oke. & Hark., graft canker. Sacc. Syll. Fung. 3: 307.

Rosa spp. and varieties Mrs. Charles Russell and Milady.

Calif. (1884), Iowa (1916), *N. J. (1923).

Coniothyrium wernsdorffiae Laub., brand canker. Jenkins, Anna E. and
G. Hamilton Martin. U. S. Dept. Agr. Off. Rec. 5 (25): 3. 1926.

Rosa spp., R. multiflora, R. setigera, R. wichurana and varieties
Adelaide Moullé, Aglaia, Aviateur Blériot, Blush Rambler, Caroubier,
Christine Wright, Coquina, Dawson, Daybreak H. Nois, Dazzling Red,
Delight, Dr. Huey, Evangeline, Excelsa, Farquhar, Flower of
Fairfield, Francois Poisson, Freedom, Goisha, Hauff, Hiawatha,
Lessing, Louis Sauvage, Manda's Triumph, May Queen, Minnehaha,
Miss G. Messmann, Mosel, Euphrosine, Multiflora grandiflora,
Paradise, Pink Pearl, Pink Roamer, Furity, Roserie, Rubin,
Ruby Queen, Seven Sisters, Source d'Or, South Orange Perfection,
Tausendschön, Victory, Wartburg, Wedding Bells, White Dorothy,
White Rautenstrauch.

*Minn. (1916), *N. Y. (1926), *Pa. (1915).

Coniothyrium sp., cane blight and canker.

Rosa alba rubrifolia, R. gentiliana, R. hugonis, R. odorata, R. rugosa,
and varieties Columbia, Crimson Champion, Gunston Hall, J. B.
Clark, Madam Butterfly, Madam E. Herriot, Paul Richaut, Premier,
Radiance (Pink and Red), Templar.

*D. C. (1926), *Fla. (1927), Ga. (1923), *Ind. (1926), La. , *Md.
(1923), N. Y. (1923), *N. J. (1927), *N. C. (1926), *Ohio (1927),
*Pa. (1926), S. C. , *Tenn. (1927), *Va. (1923), *W. Va. (1926).

Corticium stevensii (Noack.) Burt. Burt. E. A. Ann. Missouri Bot. Gard.
5: 125. 1918.

Rosa sp., Fla. (1925).

Coryneum microstictum Berk. & Br., canker. Sacc. Syll. Fung. 3: 775.

Rosa sp., Ala. (1874), *Pa. (1924).

Coryneum sp., stem canker.

Rosa spp., Idaho (1915), *Wash. (1915), *Va. (1926).

Cucurbitaria rosae Wint. & Sacc. (?) Sacc. Syll. Fung. 2: 319.

Rosa sp., N. Mex. (1916).

Cuscuta indecora Choisy, Heald, F. D. and F. A. Wolf. U.S.D.A.,
B.P.I. Bull. 226: 112. 1912.

Rosa sp., *Texas (1909).

C. paradoxa Raf.

Rosa sp., Fla. (1925).

Cylindrocladium scoparium Morgan, crown canker, black leg. Anderson, P. J.
Massachusetts Agr. Exp. Sta. Bull. 183. 1918.

Rosa spp. and varieties American Beauty, Columbia, Hadley, Hoosier
Beauty, Killarney, Madam Butterfly, Ophelia, Premier, Russell,
Schoyer, and many seedlings.

Ga., *Ind. (1917), *Iowa (1922), Mass. (1912), Mich. (1917), Mo.
(1916), N. J. (1926), N. Y. (1917), *Ohio (1927), *Pa. (1917).

Cylindrosporium sp.

Rosa sp., Md. (1925).

Cytospora sp.

Rosa sp., and variety Crimson Rambler, *Pa., (1926), *Va. (1919),
Wash. (1926).

Diaporthe oligocarpoides Rehm, Sacc. Syll. 9: 719.

Rosa sp., N. Mex. (1916).

Diaporthe umbrina Jenkins, brown canker. Jenkins, Anna E. Am. Rose Ann.
1927: 161-182.

Tea

Dr. Grill
 Dutchess de Brabant
 Enfant de Lyon
 E. Veyrat Hermanos
 Frances Willard
 Lady Hillingdon
 Mme. Berard
 Mme. Camille
 Mme. Lambard
 Marion Brunell
 Myles Kennedy
 Safrano
 William R. Smith
 White Maman Cochet
 Winter Gem

Hybrid Tea

Alexander Hill Gray
 America
 Apotheker Georg Hofer
 Baldwin
 Bessie Brown
 Bertram J. Walker
 Black Prince
 Cecho-Slavia
 Chateau de Clos Vougeot
 Champ Weiland
 Cl. LaFrance
 Cl. Killarney
 Cl. Morning Guillot
 Cl. My Maryland
 Cl. Sunburst
 Cl. Winnie Davis
 Col. R. S. Williamson
 Columbia
 Comte G. de Rochemur
 Countess of Gosford
 Defiance
 Dr. Helferich
 Dorothy Page-Roberts
 Dutchess of Wellington
 Duke of Westminster
 Escarlata
 Edel
 Ellen Willmott
 Emma Wright
 Etoile de France
 Florence Pemberton
 Francis Scott Key
 Frau Ida Munch
 Fraulein Pres. Von Grout

Hybrid Tea (con.)

Freiberg
 Gainsborough
 George C. Waud
 General-Superior Arnold
 Janssen
 Golden Spray
 Grace Darling
 Grace Molyneux
 Grossherzog Friedrich
 Gruss an Teplitz
 Gustav Grunerwald
 Hadley
 Hawlmark Crimson
 Henrietta
 Isabella Sprunt
 Johannes Frogan
 John Cook
 John Davison
 Kaiserin Auguste Viktoria
 Killarney
 Killarney Queen
 Kootenay
 La Tosca
 Lady Alice Stanley
 Lady Ashtown
 Lady Pierrie
 Lady Ursula
 Laurent Carle
 Los Angeles
 Lucien Chauré
 Mary, Countess of Ilchester
 Meteor
 Miss Cynthia Forde
 Mme. Abel Chatenay
 Mme. Butterfly
 Mme. Caroline Testout
 Mme. Berthe Fontaine
 Mme. Driout
 Mme. Hector Leuillot
 Mme. Jenny Gillemot
 Mme. Leon Paine
 Mme. Maurice de Luze
 Mme. Paul Euler
 Mme. Segond Weber
 Mme. Simone Beaumez
 Mrs. Aaron Ward
 Mrs. George Gordon
 Mrs. Hubert Taylor
 Mrs. Wakefield Christie-Miller
 Nederland
 Nerissa

Hybrid Tea (con.)

Norma
 Ophelia
 Pilgrim
 Radiance
 Prince de Bulgarie
 Prince Engelbert Charles d'Arenberg
 Priscilla
 Red Columbia
 Red-letter Day
 Red Radiance
 Rev. F. Page-Roberts
 Rivoire
 Rubezahl
 Sensation
 Sunburst
 Weddington
 Wellesley
 White Killarney

Hybrid Perpetual

American Beauty
 Baroness Rothschild
 Captain Christy
 Clio
 Countess of Roseberry
 Dr. William Gordon
 Francois Levet
 Frau Karl Druschki
 General Jacqueminot
 Glorie de Chedane-Guinoisseau
 Glorie Lyonnaise
 Her Majesty
 Hugh Dickson
 J. B. Clark
 John Hopper
 John Keynes
 Mabel Morrison
 Magna Charta
 Maharajah
 Marchioness of Dufferin
 Marchioness of Londonderry
 Margaret Dickson
 Mme. Gabriel Luizet
 Mrs. John T. Laing
 Mrs. R. G. Sharman-Crawford
 Oakmont
 Paul Neyron
 President Lincoln
 Souv. de George Beckwith
 Vick's Caprice
 Victor Verdier

Pernetiana

Souvenir de Claudius Pernet

Pernetiana (con.)

Soleil d'Or
 Willowmere

Bengal or China

Champion of the World
 Hermosa

Hybrid Sweet Briar

Catherine Seyton
 Refulgence

Dwarf Polyantha

Erna Teschendorff
 Mme. Norbert Levavasseur
 Mosella

Tea Polyantha

Leonie Lamesch

Multiflora Hybrid

Andreas Hofer
 Crimson Rambler

Wichuraiana Hybrid

Bridal Wreath
 Dr. W. Van Fleet
 Paul's Scarlet Climber

Noisette

Mme. Jules Gravereaux
 Celine Forestier
 Allister Stella Gray (Golden Rambler)
 William Allen Richardson

Noisette Hybrid

Croquette des Alpes
 Fellenberg
 Perles des Blanches

Rose Species

Rosa arvensis sylvestris
 R. brunoni
 R. canina
 R. caudata
 R. centifolia
 R. coriifolia
 R. corymbulosa
 R. fedtschenkoana
 R. gentiliana
 R. glauca
 R. helenae
 R. Moschata
 R. nutkana

Rose Species (con.)

R. odorata
R. moschata nastarana
R. multibracteata
R. Pisocarpá
R. pouzini

Rose Species (con.)

R. rubella
R. rubiginosa
R. setigera
R. soulieana

*Ala. (1926), *Conn. (1917), *Dela. (1921), *D. C. (1903), *Fla. (1925), *Ga. (1917), *Ky. (1920), *Md. (1902), *Mass. (1921), *Mich. (1925), *Miss. (1919), *N. J. (1917), *N. Y. (1923), *N. C. (1924), *Pa. (1922), *R. I. (1922), *Texas (1927), *Va. (1917), *W. Va. (1904).

Diaporthe sp. (not D. Umbrina Jenkins), blossom blight.

Rosa sp., La. (1924).

Diatrype tristicha De Not. - see Valseutypella tristicha (DeNot.) v. Hoehn.

Dicoccum rosae Bon. - see Diplocarpon rosae Wolf.

Didymella nigrificans Karst. Sacc. Syll. Fung. 9: 668.

Rosa sp., N. Mex. (1916).

D. rauii (Ell. & Ev.) Berl. & Vogl. Sacc. Syll. Fung. 9: 668.

Rosa sp., *Pa. (1883).

Diplocarpon rosae Wolf., black spot. Massey, L. M. Phytopath. 8: 20-23. 1918. Wolf, F. A. Bot. Gaz. 54: 231. 1912.

Rosa spp.

Reports of its occurrence have been received from all states except Ariz., Nev., Wyo. First report of its occurrence was in 1878 from California.

Diplodia rosae B. & C. Sacc. Syll. Fung. 3: 338.

Rosa sp., R. californica, Calif., *S. Car. (about 1870).

D. sp.

Rosa sp., R. sericea, R. setigera, Fla. (1923), *Va. (1926).

Discosia artocreas (Tode) Fr., blossom blight, stem canker. Sacc. Syll. Fung. 3: 652.

Rosa spp., *La. (1924), *Miss. (1927), *Mo. (1926).

Dothidea rosae S. - see Phyllachora rosae (Schw.) Sacc.

Dothiorella sp., blossom blight.

Rosa sp., R. setigera, and variety La Guirlande.

*La. (1924), *Va. (1926).

Earlea speciosa (Fr.) Arth., - see Phragmidium speciosum Fr.

Fusarium roseum Link, Sacc. Syll. Fung. 4: 699.
Rosa sp., S. C. (1906).

Fusarium sp.
Rosa sp., *Conn. (1927), *Ala. (1917), *Miss. (1927).

Fusicoccum sp.
Rosa sp., Va. (1925).

Gloeosporium rosae Hals., twig blight. Halsted, B. D. New Jersey
 Agr. Exp. Sta. Rept. 1892: 280, 1893: 401, 1894: 383.
Rosa spp., Miss. (1916), N. J. (1892), Ohio (1913), Okla. (1915),
 *Pa. (1914), S. C. (1922), Texas (1915).

Gloeosporium sp.
Rosa spp., and varieties La Guirlande, W. E. Lippincott, Marguerite
 Dickson, Prince D'Areberg, Radiance, White Killarney.
 *D. C., *Ind. (1927), *La. (1924), *Md. (1909), *Pa. (1915),
 Va. (1914), W. Va. (1914).

Glomerella cincta (B. & C.) S. & S. Schrenk, H. von, and P. Spaulding.
 U. S. B.P.I. Bull. 44: 29. 1903.
Rosa sp., N. J. (1918).

Gymnoconia rosae gymnocarpae Arth., rust. Arthur, J. C. Bot. Gaz. 58:
 508. 1917.
Rosa gymnocarpa, Calif. (1912).

Hainesia lythri (Desm.) v. Hohn. - see Pezizella lythri (Desm.) Shear &
 Dodge.

Hendersonia hypocarpa Fairman. Fairman, C. E. Mycol. 5: 246. 1913.
Rosa sp. var. Persian Yellow, N. Y. (1910).

Heterodera radicicola (Greef) Muell. - see Caconema radicicola (Greef)
 Cobb.

Kabatiella sp. - see Polyspora sp.

Kunkelia rosae gymnocarpae (Diet.) Arth. - see Gymnoconia rosae-
gymnocarpae Arth.

Leptosphaeria coniothyrium (Fckl.) Sacc., cane blight. Sacc. Syll.
 Fung. 2: 29.

Rosa spp., R. alba rubrifolia, R. rugosa x Victor Hugo, and
 varieties Golden Emblem, Premier.
 Ark. (1926), Calif. (1926), Colo. (1922), *D. C. (1903), *Ind.
 (1921), Kans. (1925), *Md. (1925), *Mass. (1926), Mich. (1917),
 Miss. (1923), *N. J. (1914), N. Y. (1926), N. C. (1915), Ohio
 (1911), *Pa. (1913), S. C. (1903), *Texas (1909), *Va. (1906),
 W. Va. (1914).

Leptothyrium rosarum Cke. - see Pezizella lythri (Desm.) Shear & Dodge.

- Lophiostoma auctum Ellis. & Ev. Ellis & Everhart. N. Am. Pyreno. p. 233.
Rosa sp., N. Y. (about 1890)
- Macrophoma sp.
Rosa sp., and variety Sunburst, *La., *Va. (1921).
- Macrosporium chevianthi (Lib.) Fr. - see Alternaria sp.
- M. sp.
Rosa sp., *Okla. (1921), *Pa. (1924).
- Marsonia rosae Trail - see Diplocarpon rosae Wolf.
- M. rosae Br. & Cav. - " " " "
- Mollisia cinerea (Batsch.) Karst. Sacc. Syll. Fung. 8: 336.
Rosa sp., *N. Y.
- Mycosphaerella rosigena Ell. & Ev. - see Sphaerella rosigena Ell. & Ev.
- Myxosporium rosae Fckl., as found in Pa. and W. Va. - see Diaporthe umbrina Jenkins.
- Olpitrichum macrosporium (Farl.) Sumstine. Sumstine, D. R.
 Mycol. 3: 55. 1911.
Rosa gentiliana, *Md. (1923).
- Ozonium omnivorum Shear, root rot. Shear, C. L. Bull. Torr. Bot. Club 34: 305-317. 1907.
Rosa sp., *Texas (1915), Ariz. (1927).
- Peristomium sp., in process of publication.
Rosa sp., Pa. (coll. 1916; det. 1928).
- Peronospora sparsa Berk., downy mildew. Sacc. Syll. Fung. 7: 263.
Rosa sp., R. californica, and variety Golden Emblem.
 Calif., *N. Y. (1892), *Ohio (1905), *Pa.
- Pestalozzia bullata B. & Br.
Rosa sp., S. C.
- P. compacta Sacc. Sacc. Syll. Fung. 3: 798.
Rosa sp., Fla. (1922).
- P. discosioides Ell. & Ev. Ellis, J. B. and B. M. Everhart. Jour. Myc. 4: 51. 1888.
Rosa sp., *Del. (1888), *Mich. (1915).
- P. foliorum Ell. & Ev. Ellis, J. B. and B. M. Everhart. Fungi Columbiani No. 1552.
Rosa sp., *Ala. (1900).

- P. guepini Desm. Sacc. Syll. Fung. 3: 794.
Rosa variety Devoniensis, *La. (about 1900).
- P. rosae Westd. Sacc. Syll. Fung. 3: 786. Schwarze, C. A. New Jersey
 Agr. Exp. Sta. Bull. 313: 114. 1917.
Rosa sp., and variety Sunburst, N. J. (1918), *Va. (1927).
- P. suffocata Ell. & Ev. Sacc. Syll. Fung. 10: 485.
Rosa sp., Pa. (1886).
- Pestalozzia sp.
Rosa sp., R. odorata, Ind. (1924), Md. (1924), *Miss. (1927).
- Pezicula rosae Sacc. Brenckle, J. F. Mycol. 9: 276-293. 1917.
Rosa sp., N. D. (1914).
- Pezizella lythri (Desm.) Shear & Dodge. Shear, C. L. and B. O.
 Dodge. Mycol. 13: 165. 1921.
Rosa sp., R. gentiliana, *Md. (coll. 1927, det. 1928), *Mo. (coll. 1926, det. 1928), *N. J. (coll. 1917, det. 1928), S. C. (about 1870).
R. rugosa, R. setipoda, *Va.
- Phoma rhodocarpa Sacc., bark blight. Saccardo, P. A. Ann. Mycol. 9: 251. 1911.
Rosa var. Persian Yellow, N. Y. (1911).
- P. sepincola (Michx.) Sacc. Sacc. Syll. Fung. 3: 77.
Rosa suffulta, *Nebr. (1911).
- P. sp. disease of thorns and bark.
Rosa spp., *D. C. (1926), *Ind. (1928), *Md. (1909), Pa. (1924).
- Phomatospora rosa Rehm. Rehm, H. Ann. Myc. 11: 397. 1913.
Rosa sp., *N. D. (1913).
- Phomopsis sp., canker.
Rosa spp., Teas, Hybrid Teas and Hybrid Perpetuals.
 *Ark. (1928), *Calif. (1926), *D. C. (1928),
 *Ga. (1925), *Ind. (1928), *Ky. (1924), *Md. (1925), *Mo. (1926),
 *N. Y. (1926), *Pa., *Va. (1925), *W. Va. (1928).
- Phragmidium americanum Diet., rust. Arthur, J. C. N. Am. Flora 7, 3: 167. 1912.
Rosa spp., R. acicularis bourgeanania, R. arkansana, R. blanda,
R. humilis, R. lucida, R. virginiana.
 Colo. (1877), Del. (1912), D. C. (1912), Ind. (1912), *Iowa (1885), Ky. (1912), Me. (1889), Mass. (1912), *Nebr. (1908),
 N. J. (1912), N. Y. (1912), *N. D. (1908), R. I., Vt. (1912),
 *W. Va. (1910), *Wis. (1911).

Phragmidium disciflorum (Tode) James, rust. Arthur, J. C. N. Am. Flora 7, 3: 171. 1912.

Rosa spp., R. acicularis, R. alba, R. blanda, R. damascena, R. eglanteria, R. gallica, R. laxa.

*Calif. (1889), *Colo. (1880's), Conn. (1912), Del. (1912), *Ill. (1881), *Ind. (1915), *Iowa (1889), *Kans. (1891), Me. (1918), *Md. (1923), *Mass., Mich. (1912), *Nebr. (1911), *N. Y. (1923), *Pa. (1883), *Texas (1909), Vt. (1912), *Va. (1919), W. Va. (1912), Wis. (1914).

P. montivagum Arth., rust. Arthur, J. C. N. Am. Flora 7, 3: 169. 1912.

Rosa spp., R. acicularis bourgeaniana, R. acicularis engelmanni, R. aciculata, R. aciculata crockerell, R. bakeri, R. douglasii, R. engelmanni, R. fendleri, R. grosse-serrata, R. gymnocarpa, R. gymnocarpa pubescens, R. macounii, R. manca, R. maximiliani, R. neomexicana, R. nutkana, R. puberulenta, R. underwoodii, R. woodsi, R. woodsi fendleri.

*Ariz. (1917), Calif. (1912), *Colo. (1908), *Idaho (1917), *Mont. (1888), Nev., N. Mex., *N. D. (1917), Oreg., *S. D. (1912), *Utah (1909), Wash., *Wyo. (1911).

P. mucronatum (Pers.) Link. - see P. disciflorum (Tode) James.

P. mucronatum americanum Pk. - see P. americanum Diet.

P. occidentale Arth., rust. Arthur, J. C. N. Am. Flora 7, 3: 166. 1912.

Rosa acicularis engelmanni, *Colo. (1909).

Phragmidium rosae-acicularis Liro, rust. Arthur, J. C. N. Am. Flora 7, 3: 168. 1912.

Rosa spp., R. acicularis, R. acicularis bourgeaniana, R. acicularis engelmanni, R. engelmanni, R. hemisphaerica, R. heliophila, R. macedougali, R. nutkana, R. nutkana macedougali, R. pisocarpa, R. rugosa, R. suffulta.

*Colo. (1925), Idaho (1912), *Mich. (1889), Minn. (1912), *Mont. (1912), *N. D. (1912), *Wis. (1924).

P. rosae arkansanae Diet., rust. Arthur, J. C. N. Am. Flora 7, 3: 170. 1912.

Rosa spp., R. acicularis bourgeaniana, R. acicularis engelmanni, R. blanda, R. engelmanni, R. fendleri, R. heliophila, R. lucida, R. maximiliani, R. pratincola, R. subnuda, R. suffulta, R. woodsi.

*Calif., *Colo. (1889), Del., *Ill. (1889), Iowa (1912), *Kans. (1893), Miss., *Mo. (1917), *Nebr. (1909), N. H., N. Y., *N. D. (1911), S. D. (1917), Wis., *Wyo. (1912).

P. rosae-californicae Diet., rust. Arthur, J. C. N. Am. Flora 7, 3: 170. 1912.

Rosa spp., R. californica, R. chrysocarpa, R. gymnocarpa,
R. gymnocarpa pubescens, R. nutkana, R. pilifera, R. pisocarpa.
 *Calif. (1892), D. C., *Oreg. (1914), *Wash. (1901).

P. rosae-pimpinellifoliae Diet. - see P. subcorticinum.

P. rosae-setigerae Diet., rust. Arthur, J. C. N. Am. Flora 7, 3: 167.
 1912.

Rosa spp., R. carolina, R. humilis, R. palustris, R. rubiginosa, R. setigera.
 Conn., D. C. (1889), Ill. (1912), *Ind. (1916), *Kans. (1892),
 Md. (1912), Miss. (1912), *Mo. (1917), *Mont., *Nebr. (1912),
 N. H. (1912), *N. Y. (1904), Ohio, *Wis. (1906).

Phragmidium speciosum Cke., rust. Sacc. Syll. Fung. 7: 744.

Rosa spp., R. acicularis bourgeaniana, R. arkansana, R. blanda,
R. carolina, R. foliosa, R. heliophylla, R. humilis, R. lucida,
R. macounii, R. maximiliani, R. nitida, R. palustris, R. parviflora,
R. pecosensis, R. pisocarpa, R. rubiginosa, R. rugosa, R. setigera,
R. suffulta, R. woodsi, R. woodsi fendleri.

*Ark., *Calif. (1898), *Colo. (1906), Conn., Del., *Idaho (1894),
 Ill., *Ind. (1890), *Iowa (1883), *Kans. (1883), *La. (1901),
 *Md. (1924), Mass., Minn., *Miss. (1892), *Mo. (1884), *Mont.
 (1917), *Nebr. (1889), N. J., *N. Mex. (1903), *N. Y. (1892),
 N. D. (1909), *Ohio, Pa., *S. D. (1894), *Texas (1907), *Vt.
 (1894), *Va. (1922), *Wash. (1894), *W. Va. (1889), *Wis.
 (1881), *Wyo. (1917).

P. subcorticinum (Schrank) Wint., rust. Arthur, J. C. N. Am. Flora 7,
 3: 172. 1912.

Rosa spp., R. acicularis bourgeaniana, R. alba, R. arkansana, R. blanda,
R. californica, R. eglanteria, R. hemisphaerica, R. humilis,
R. lucida, R. multifida, R. nutkana, R. pisocarpa, R. rubiginosa,
R. spinosissima, R. virginiana.

Ala. (1897), *Calif. (1889), *Colo. (1887), Conn., *Idaho (1892),
 *Ill. (1881), *Ind. (1890), *Iowa (1888), *Kans. (1888), *Ky.
 (1882), *La. (1901), *Me. (1903), *Md. (1891), *Mass. (1883),
 *Mich. (1902), *Minn. (1891), Miss., *Mo. (1886), *Mont. (1884),
 *Nebr. (1905), *Nev. (1891), N. H., *N. J. (1880), *N. Y.
 (1889), *N. C. (1922), *N. D. (1884), *Ohio (1880), *Oreg.
 (1885), *Pa. (1923), R. I., *S. D. (1896), *Texas (1900),
 *Vt. (1922), *Va. (1896), *Wash. (1891), W. Va. (1910),
 *Wis. (1887).

Phyllachora rosae (Schw.) Sacc. Sacc. Syll. Fung. 2: 611.

Rosa sp., Calif., R. humilis, Miss. (1895).

Phyllactinia corylea (Pers.) Karst. Salmon, Mon. Erysiphaceae pg. 224.

Rosa spp., R. gymnocarpa, R. pisocarpa, Wash. (1901).

Phyllosticta rosae Desm., leaf spot. Stevens. Fungi which cause plant disease, pg. 487:

Rosa spp., R. acicularis engelmanni, R. setigera.

*Colo. (1909), Del. (1923), *Ill. (1919), Ind. (1894), *N. Y. (1916), *Iowa (1926).

P. rosicola Mass., leaf spot. Sacc. Syll. Fung. 16: 830.

Rosa spp., N. J. (1913).

F. sp., leaf spot.

Rosa sp., *Miss. (1926), W. Va. (1918).

Physalospora cydoniae Am. Auct. - see P. malorum (Pk.) Shear

F. malorum (Pk.) Shear, canker. Shear, C. L. and others. Jour. Agr. Res. 28 (6): 596. 1924.

Rosa spp., R. macrantha x R. moyesii, R. setigera, R. sericea, *Kans. (1925), *Md. (1926), Texas (1924), *Va. (1926), *W. Va. (1926).

P. rhodina (Berk. & Curt.) Cke. Stevens, H. E. Mycol. 18: 212. 1926.

Rosa rubiginosa, N. C. (1926).

Pleosphaerulina corticola f. rosae (Fckl.) Rehm. Brenckle, J. F.

Mycol. 9: 276-293. 1917.

Rosa spp., R. woodsi, N. D. (1913).

Pleospora aculeorum Berl. Sacc. Syll. Fung. 9: 885.

Rosa sp., Wash. (1915).

Polyspora sp., blight.

Rosa spp., R. hugonis, R. saturata, R. sericea, R. spinosissima, R. var. soulieana hyb., R. woodsi and variety Rambler.

*D. C. (1926), *Ind. (1927), *Md. (1924), *Miss. (1927), *N. C. (1924), *N. J. (1927), *N. Y. (1926), *Pa. (1926), *Va. (1924), *W. Va. (1928).

Ramularia macrospora Fres., root and crown blight. Sacc. Syll. Fung. 4: 211.

Rosa var. Sunburst, *D. C. (1923).

Ramularia sp., leaf spot.

Rosa sp., Nebr. (1906).

Rhizoctonia sp.

Rosa sp., Texas (1918).

Robillardia sp., in process of publication.

Rosa gentillana, Md. (1927).

Rosellinia rosarum Niessl. Sacc. Syll. Fung. 1: 266.

Rosa sp., N. Mex. (1916).

Sclerotinia sp., blight.

Rosa sp., Miss. (1924).

Sclerotiopsis concava (Desm.) Shear & Dodge - see Pezizella lythri
(Desm.) Shear & Dodge.

Septoria rosae Desm., leaf spot. Sacc. Syll. Fung. 3: 485.

Rosa sp., S. C. (1923), Miss. (1923).

Sphaerella rosigena Ell. & Ev. Sacc. Syll. Fung. 9: 643.

Rosa sp., *La. (1887), N. J. (1918).

S. spinicola Ell. & Ev. Proc. Acad. Sci. Phila., 1890: 231. 1891.

Rosa sp., *Pa. (1890).

Sphaeronemella rosae Ell. & Ev. Sacc. Syll. Fung. 10: 407.

Rosa spp., R. coreana, R. hugonis, R. hugonis x lucida, R. humilis,
R. macrophylla, R. mycrus, R. pisifera, R. woodsii.

*Md. (1923), *N. J. (1889), *Va. (1923).

Sphaeropsis malorum Pk. - see Physalospora malorum (Pk.) Shear.

S. rhodocarpa Fairman, cane blight. Fairman, C. E. Mycol. 5: 246.
1913.

Rosa lutea, N. Y. (1911).

S. rosarum Cke. & Ell., cane blight. Sacc. Syll. Fung. 3: 294.

Rosa sp., *Va. (1915), *W. Va. (1907).

S. sp., cane blight.

Rosa hugonis, *Va.

Sphaerotheca humuli (DC.) Burr., powdery mildew. Salmon, Mon.

Erysiphaceae, pg. 45.

Rosa spp., Calif. (1923), Conn. (1902), Mich., Nebr. (1919), Ohio
(1909), Texas (1909), Va. (1926), Wash. (1924), Wis. (1914).

S. mors-uvae (Schwein.) Berk. & Curt., powdery mildew. Salmon, Mon.

Erysiphaceae, pg. 70.

Rosa spp., R. sp. var. Crimson Rambler, Mich., *Oreg. (1926).

S. pannosa (Wallr.) Lev., powdery mildew. Salmon, Mon. Erysiphaceae,
p. 65.

Rosa acicularis, R. arcadia, R. arvensis, R. blanda, R. carelica,
R. centifolia, R. cordata, R. damascena, R. davidi, R. deseglisci,
R. dupontii, R. gallica, R. glauca, R. laevigata, R.
ligustifolia, R. montnaga, R. lucida, R. nigrosa, R.
palustris, R. paulii, R. pendulina, R. rugosa, R. sargentii,
R. spinosissima and varieties Babette, Beauty of the
Prairies, Bride, Bridesmaid, Columbia, Crimson Rambler,
Dorothy Perkins, Hebe, Mme. Abel Chatenay, Maman Cochet,

Paul Neyron, Reine Marie Henriette, Radiance, Trubador,
Ulrich Brunner.

Ala. (1890), Ariz. (1919), Ark. (1914), Calif. (1903), Colo.
(1906), Conn. (1903), Del. (1908), D. C. (1906), Fla. (1907),
Ga. (1902), Idaho (1915), Ill. (1881), Ind. (1915), Iowa
(1906), Kans. (1914), Ky. (1902), La. (1907), Me. (1906), Md.
(1907), Mass. (1907), Mich. (1903), Minn. (1908), Miss. (1902),
*Mo. (1887), Nebr. (1905), Nev. (1915), N. H. (1921), *N. J.
(1912), N. Mex. (1927), *N. Y. (1911), N. C. (1902), N. D.
(1914), Ohio (1907), Okla. (1915), Oreg. (1909), Pa. (1910),
S. C. (1905), Tenn. (1910), Texas (1890), Utah (1912), Va.
(1926), Wash. (1900), W. Va. (1906); Wis. (1927).

Sphaeropsis sp., powdery mildew.

Rosa spp., N. Mex. (1924), Vt. (1924).

Sphaerulina corticola (Fckl.) Rehm. Brenckle; J. F. Mycol. 9:
276-293. 1917.

Rosa sp., N. D. (1914).

Stereum rameale Schw. Ann. Missouri Bot. Gard. 7: 169. 1920.

Rosa sp., *N. Y. (1922).

Uromyces rosicola Ell. & Ev., rust. Ellis, J. B. and B. M. Everhart.
Am. Nat. 31: 427. 1897.

Rosa sp., R. acicularis engelmanni, *Mont., *Nebr. (1897).

Valsa ambiens (Pers.) Fr. Sacc. Syll. Fung. 1: 131.

Rosa sp., *N. D.

Valsa ambiens f. rosae Rehm. Brenckle, J. F. Mycol. 9: 276-293.
1917.

Rosa suffulta, N. D. (1913).

Valseutypella tristicha (DeNot.) v. Hoehn. von Hoehn, F. Ann. Myc.
16: 224.

Rosa sp., R. blanda, R. subnuda, Calif., *N. D. (1913).

Chlorosis, undet.

Rosa spp., Nebr., Texas.

Fasciation

Rosa sp., Conn. (1910).

Mosaic, undet.

Rosa spp., Conn., (1923) Md., (1909) N. J., (1928), Texas (1922).

Oedema

Rosa sp., *D. C.

Yellows, undet.

Rosa sp., Ind.