

DISEASES OF ORNAMENTAL PLANTS

ASTER

WILT -- Fusarium conglutinans Woll.  
var. Callestephi Beach

This disease was very severe in New Brunswick, Quebec, and Ontario in 1927 and 1928. In some beds 75 per cent of the plants were attacked while others were entirely wiped out.

YELLOWS

One report from King's county Nova Scotia.

AZALEA

LEAF GALL -- Exobasidium Vaccini (Fckl.) Wor.

Specimen received from Braeside, Ontario in 1928.

BARBERRY

RUST -- Puccinia graminis Pers.

An abundance of aecia reported from Colchester and King's counties, Nova Scotia, 1928. It was also observed on the barberry bushes at Ottawa in 1928.

BLEEDING HEART

WILT -- Sclerotinia sp.

One specimen observed in York county New Brunswick in 1928.

BUCKTHORN

RUST

Reported from Nova Scotia, Quebec, and Ontario in 1928.

CARAGANA

LEAF SPOT -- Septoria Caraganae (Jacz.) P.Henn.

Severe cases were reported from Indian Head and Saskatoon, Saskatchewan in 1928.

CARNATION

LEAF SPOT -- Alternaria Dianthi F.L. Stevens

A slight infection was reported from York county, New Brunswick in 1927. It also occurred at London, Ontario in the same year. In 1928 the disease was quite serious in garden patches at Fredericton, New Brunswick.

RUST -- Uromyces Dianthi (Pers.) Niessl.  
(= Uromyces caryophyllinus (Sch.) Wint.)

General infections, thought slight, were reported from York county, New Brunswick in 1928. The disease was also severe in greenhouse stock at Ottawa in 1928. There was considerable variation in the susceptibility of varieties.

CENTAUREA

RUST -- Puccinia Cyani Pass.

This rust was destructive on cornflower at London, Ontario in 1927.

CLARKIA

WILT or STEM ROT -- Botrytis sp.

One specimen affected with this disease was observed in York county, New Brunswick.

COLUMBINE

POWDERY MILDEW -- Erysiphe Polygoni DC.

A moderate infection appeared on most plants examined in York county in 1927 and 1928.

LEAF SPOT -- Alternaria sp.

A slight infection was observed in York county.

DAHLIA

STORAGE ROT -- Botrytis sp. and Pinotes sp.

Both these organisms were found to be associated with a rot which appeared at Macdonald College, Quebec, in tubers which had been stored in sand which was slightly damp.

LEAF SPOT -- Phoma Dahliae Berk.

Considerable leaf spot and blossom blight was reported from Kentville and Hantsport.

DELPHINIUM

POWDERY MILDEW -- Erysiphe Cichoracearum DC.

This disease was severe on practically all plants examined in York county in 1927 and 1928. It was also reported from Ontario and Alberta in the latter year.

BACTERIAL BLIGHT -- Pseudomonas Delphinii (E.F.Sm.)  
Stapp

Reported from Parry Sound, Ontario in 1928.

GERANIUM

STEM ROT -- Bacterium Erodii Lewis

There was a very severe infestation of this trouble in propagation beds in a nursery in King's county, Nova Scotia in 1927.

GLADIOLUS

LEAF SPOT -- Septoria Gladioli Pass.

Several cases reported from New Brunswick and Ontario in 1927 and 1928.

GLADIOLUS  
HOLLYHOCK

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DRY ROT -- Sclerotium Gladioli Massey

Several cases were reported from Ontario in 1927 and 1928. One case was reported from New Brunswick in 1928.

SCAB -- Bacterium marginatum McCulloch

Reported from Ontario, Manitoba and British Columbia in 1927. Several reports from Ontario in 1928.

HOLLYHOCK

RUST -- Puccinia Malvacearum Bert.

Hollyhock rust was widespread and severe in Nova Scotia, New Brunswick, Quebec, and Ontario in 1927 and 1928.

WILT -- Sclerotinia sp.

This disease was moderate in New Brunswick in 1927. In 1928 a serious outbreak occurred at the Dominion Experimental Station, Fredericton.

HYACINTH

YELLOW DISEASE -- Pseudomonas Hyacinthi (Wakk.)  
E.F.Sm.

One case reported from Toronto, Ontario.

IRIS

LEAF SPOT -- Didymellina macrospora Kleb.  
Heterosporium gracile Sacc.

Reported from New Brunswick, Quebec, and Ontario in 1927 and 1928.

LILAC

LEAF SPOT -- Phyllosticta Halstedii E. & P.

One report from Quebec.

POWDERY MILDEW -- Microsphaera Alni (Wallr.) Salm.

Moderate infections were reported from Nova Scotia in 1927 and from New Brunswick and Ontario in 1927 and 1928.

LILY

BLIGHT -- Botrytis elliptica (Berk.) Cke.

One case was reported from Durham county, Ontario in 1927.

NARCISSUS

SMOULDER -- Botrytis narcissicola Kleb.

Reported from Beamsville, Ontario in 1927 and from British Columbia in 1928.

PANSY

ANTHRACNOSE -- Colletotrichum tricoloris R.E.Sm.

Slight infections were reported from Nova Scotia in 1927.

LEAF SPOT -- Alternaria sp.

Slight infections occurred in York county, New Brunswick in 1927 and 1928.

PEONY

BLIGHT -- Botrytis Paeoniae Oud.

Severe cases were reported from Nova Scotia, New Brunswick, Quebec, and Ontario in 1927 and 1928. One report was received from Manitoba in 1928.

WINTER INJURY

There was considerable winter injury at the Dominion Experimental Station in 1928.

PHLOX

POWDERY MILDEW -- Erysiphe Cichoracearum DC.

Severe cases occurred in Ontario and Quebec in 1927 and 1928.

ROSE

BLACK SPOT -- Diplocarpon Rosae Wolf.  
(Actinonema Rosae (Lib.) Fr.)

Severe in New Brunswick, Quebec, and Ontario in 1927 and 1928 sometimes causing premature defoliation.

RUST -- Phragmidium speciosum (Fr.) Cke.

In New Brunswick rust was slightly prevalent in 1927, but was quite severe in gardens at Fredericton in 1928. In Quebec it was severe at Macdonald College and in gardens at Senneville. Occasional cases were observed at Ottawa in 1927 and 1928. The disease was common on both wild and cultivated roses at Edmonton in 1928 and was also reported from Swift Current, Saskatchewan the same year.

POWDERY MILDEW -- Sphaerotheca pannosa (Wall.) Lev.

Common in Quebec and Ontario in 1927 and 1928. Also found on house plants at Edmonton, Alberta in 1928.

LEAF SPOT -- Cercospora rosicola

Occurred at Guelph in 1927.

CROWN GALL -- Pseudomonas tumae-faciens (Sm. & Towns.)  
Dugg.

One case reported from Saskatoon, Saskatchewan in 1928.

SNAPDRAGON

RUST -- Puccinia Antirrhini Diet. & Holw.

Moderate infections were reported from New Brunswick in 1927. Severe cases were reported the following year from New Brunswick, Quebec and Ontario.

ANTHRACNOSE -- Colletotrichum Antirrhini Stewart

One report received from Quebec in 1927.

STOKESIA

BLIGHT -- Botrytis sp.

Reported from Cornwall, Ontario in 1928.

SWEET PEA

POWDERY MILDEW -- Microsphaera diffusa Cke. & Pk.

General infections slight to moderate in severity were reported from York county, New Brunswick in 1927 and 1928.

MOSAIC -- Virus

Isolated specimens were observed in York county, New Brunswick in 1927.

BUD DROP -- Physiological.

A few isolated cases were observed in York county, New Brunswick in 1928.

TULIP

BLIGHT -- Botrytis Tulipae (Lib.) Lind.

Reported from points in Ontario in 1927 and 1928; also from Saskatchewan in 1928.

GREY BULB ROT -- Rhizoctonia Tuliparum (Kleb.)  
Whetz. & Arth.

One case reported from New Brunswick in 1927.

FUSARIUM BULB ROT -- Fusarium sp.

In September 1927, specimens of rotted tulip bulbs were received at the Summerland Laboratory from Creston, British Columbia, where it was reported that the trouble was causing considerable losses. Isolations from the rotted tissue consistently gave a Fusarium species which when reinoculated into healthy bulbs was capable of producing a rot similar in all respects to that which occurred on the tulips sent in from the field. As in available check lists on plant diseases, no Fusarium bulb-rot of tulips is reported, this opportunity is taken of drawing attention to this new disease. The trouble is characterized by a number of rotted areas occurring on the outer fleshy scale of the tulip bulb. The areas are somewhat sunken, soft and mealy in texture, dark brown in colour on the outside, shading to light underneath. Outside the distinct margin of the rot, a yellow discolouration was present in the apparently still unaffected tissue.

VACCINIUM

LEAF GALL -- Exobasidium Vaccinii (Fckl.) Wor.

Reported from Ste. Anne de la Pocatiere, Que.

VIOLET

RUST -- Puccinia Violae (Schum.) DC.

Common on wild species in New Brunswick.

LEAF SPOT -- Alternaria Violae

Very severe in greenhouse at Macdonald College, Quebec.

VINCA

RUST -- Puccinia Vincae

Plants in a greenhouse at Ottawa were heavily infected in 1928.