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Rust (Puccinia Ptarmicas Karst.) was collected, for the first time in North America, at Greenfield Park, near St. Lambert, Que., on wild plants of A. Ptarmica, on Aug. 2. It was later found on The Pearl, a cultivated variety of the same host, at Ste. Anne de la Pocatiere, and at Notre Dame du Portage, Kamouraska Co., where it was particularly severe and caused almost complete defoliation. Finally it was found at St. Pamphile and St. Roch des Aulnaies, L'Islet Co. (A. Payette) and St. Roch des Aulnaies, L'Islet Co. (A. Payette) neer aless and an and the state

#### ALTHAEA ROSEA - Hollyhock

Rust (Puccinia Malvacearum) was collected at Grand Forks and Summerland, B.C. It is general throughout the Okanagan Valley (G.E. Woolliams). Infection was heavy in a planting at Edmonton, Alta. (L.E. Tyner). Rust caused severe damage at Charlottetown, P.E.I. (R.R. Hurst). ANTIRRHINUM Snapdragona service of the state of the state

Rust (Puccinia Antirrhini) was found on anapdragons in various sections of the interior of B.C., but was usually not very severe (G.E. Woolliams).

Stem Rot (Sclerotinia sclerotiorum) caused serious injury in two gardens in Ont. (J.E. Howitt).

Sulphur Dioxide Injury, Specimens of A. majus with prominent white lesions on the leaves were received from a greenhouse at Etobiooke, near Toronto, Ont, The injury was stated to be heavy at one end of the house. See also <u>Dianthus</u> (D.B.O. Savile),

AQUILEGIA - Columbine Mildew (Erveiphe Polygoni) was heavy at Brackley Beach, P.E.I. (R.R. Hurst). 

ASTER alle continue più a della co

Powdery Mildew (Ervsiphe Cichoracearum) was light on A. dumosus var. Maiden Bush at the Botanical Garden, Montreal, Que. (J.E. Jacques).

#### BEGONIA

Bacterial Leaf Spot (Xanthomonas begoniae (Buohwald) Dowson). Heavily spotted leaves received from Toronto yielded small Gram negative short rods. The symptoms agreed with those illustrated by P.A. Ark and C.M. Tompkins (Phytopath. 29: 633-637. 1939). There is no clue to the source of the infection. What may have been the same trouble was later received from Ottawa; but in this material the bacteria were very scarce (D.B.O. Savile).

BERBERIS - Berberry

The Real of CAR MODEL CARA -- Barberry Rust (<u>Puccinia graminis</u>). Pycnia were mature at Ottawa, Ont., 27 May but infection was sparse. Specimens of common barberry and a purpleleaved variety, collected at Martintown 29 May by Mr. J.N. MacRae, bore aecia that were just mature. A heavily infected leaf with mature aecia was received from Lanark on June 18 (I.L. Conners). At the Botanical Garden, Montreal, Que., rust was abundant on <u>Be haterepode</u>, <u>Be Poirett</u>, <u>B. sibirica</u>, and B. Tischleri (J.E. Jacques). Only a trace of rust was seen on B.

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Sec. March 1997

#### Berberis

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vulgaris at Summerside, P.E.I., and none at Charlottetown (R.R. Hurst). Wilt (Verticillium sp.) was severe on <u>B</u>. <u>Thunbergii</u> in Queens

Co., P.E.I., in a section of a hedge under trees (R.R. Hurst).

### CALENDULA

Yellows (Callistephus virus 1) varied from 10 to 100% in gardens at Charlottetown, P.E.I. (R.R. Hurst).

CALLISTEPHUS CHINENSIS - China Aster

Wilt (<u>Fusarium oxysporum f. Callistephi</u>) was prevalent in aster beds throughout Ont., destroying over 50% of the plants in some gardens (J.E. Howitt).

Foot Rot (<u>Phytophthora cryptogea</u>) caused heavy losses in a commercial planting at St. Vincent de Paul, Que. (J.E. Jacques).

Yellows (<u>Callistephus</u> virus 1) was seen in several gardens in Ont. (J.E. Howitt). Specimens were received from Hamilton, Ont., and Gatineau, Que. (D.B.O. Savile). Yellows caused slight damage at the Botanical Garden, Montreal, Que. (J.E. Jacques). Demage was severe in Queens Co., P.E.I. (R.R. Hurst).

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#### CAMPANULA.

Rust (<u>Coleosporium Campanulae</u>). Material was received from Fonthill, Ont. (G.C. Chamberlain). It was collected on <u>C. rotundifolia</u> var. <u>intercedens</u> at Riviere Quelle, Kamouraska Co., Que., 23 June, and was later found on this host at Notre Dame du Portage, St. Roch des Aulnaies, and elsewhere along the shore of the St. Lawrence (A. Payette). This appears to be the first report of <u>C. Campanulae</u> on this host in North America. According to Klebahn the form on <u>G. rapunculoides</u> in Europe will not infect <u>C. rotundifolia</u>. Mains (Pap. Mich. Acad. Sci., Arts and Letters 23: 171-175. 1938) showed that the common rust of northeastern North America, on <u>C. americana</u> which is known from Ont., Que., and N.S. on <u>C. rapunculoides</u>, would not attack 3 strains of <u>C. rotundifolia</u>. Observations at Ottawa in 1943 supported this view. It is probable that the rust here reported is a distinct strain (D.B.O. Savile).

Rust (<u>Puccinia Campanulae</u> Carm.). A trace of this rust was found accompanying <u>Coleogoporium Campanulae</u> on <u>C. rotundifolia</u> var. <u>intercedens</u> at St. Roch des Aulnaies, Que. First Canadian record. A collection made in November from the same site showed abundant infection of the new shoots at the bases of the old stems. The rust is very inconspicuous (A. Payette).

#### CHRYS ANTHE MUM

Rot (<u>Sclerotinia</u> <u>sclerotiorum</u>). Infection through disbudding scars in a greenhouse plant at Kentville, N.S., caused dying back (R.J. Baylis).

Spotted Wilt (virus). A few plants were slightly damaged in a greenhouse at the Botanical Garden, Montreal, Que. (J.E. Jacques).

#### COREOPSIS

Yellows (virus) was heavy and caused severe damage in Queens Co., P.E.I. (R.R. Hurst).

#### DAHLTA

Grey Mould (Botrytis cinerea). Specimens received from St. Aubert, L'Islet Co., showed severe injury of buds and shoots (J.E. Jacques).

Mosaic (virus) was seen on Jane Cowl, Jersey's Beacon, Jersey's Beauty, Margaret Woodrow Wilson, Cigarette, and several unidentified varieties at Charlottetown, P.E.I. (R.R. Hurst).

#### DAPHNE

Anthraonose (?Marssonina Daphnes). A stand of D. Mezereum near Charlottetown, P.E.T., was so severely defoliated that it failed to recover. Specimens were not seen, but, from the owner's description, this disease is thought to have been responsible (R.R. Hurst).

# DELPHINIUM - Larkspur

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Powdery Mildew (<u>Ervsiphe Polygoni</u>) was heavy and caused consider-able injury to <u>B</u>. sp. at Pembroke, Ont, (D.B.O. Savile). Traces of mildew were seen on odd plants at the Botanical Garden, Montreal, Que. (J.E. Jacques). Infection was a trace to heavy in Queens Co., P.E.I.; late infection often caused considerable damage (R.R. Hurst).

同時 田村

Bacterial Blight (Pseudomonas delphinii). Occasional plants were attacked at the Botanical Garden, Montreal, Que. (J.E. Jacques). Traces were seen late in the season at Charlottetown, P.E.I. (R.R. Hurst).

DIANTHUS

CH . Blight (Alternaria dianthicola Neerg.) was found at Ottawa, Ont. by Dr. Paul Neergaard (J.W. Groves), and at the Botanical Garden, Montreal, Que. (J.E. Jacques). Study of scanty material from West Hill, Ont., suggests that this species was involved, and it now seems probable that some of the earlier reports of A. Dianthi should have been referred to this species. According to Neergaard (Danish species of Alternaria and Stemphylium. Copenhagen. 1945) the spores of A. Dianthi are 13.5 to 66 microns long including the beak, which is  $\frac{1}{4}$  to 1/3 of the total length, whereas those of A. dianthioola are 33 to 142.5 microns, of which the beak is often one half (D.B.O. Savile).

Rust (Uromyses garyophyllinus). A slight infection occurred at Vancouver, B.C. (I.C. MacSwan).

Mosaic (virus). A disease agreeing with that described by D.B. Creager (Florists Roview. 27 Jan. 1947) has been increasing for some time in most greenhouses in the Guelph district, Ont. It is stated to be a limiting factor in the growing of many varieties (S.A. Simmons).

Sulphur Dioxide Injury. Specimens of D. <u>ceryophyllus</u> ver. Peter Fisher received from EtoDicoke, Ont., bore conspicuous white lesions. They had been grown in a greenhouse bed adjacent to similarly affected Antirrhinum (q.v.) (D.B.O. Savile). a para na data. a shiple strate this

## DIGITALIS - Foxglove

Leaf Spot (Phyllosticta Digitalis). A moderately infected specimen of D. purpurea was received from Georgetown, P.E.I.; pycnidia pale, inconspicuous; spores 6.5-10.5 x 2.0-3.5 microns (R.R. Hurst, D.B.O. Savile).

#### FILIPENDULA

Powdery Mildew (Sphaerotheca Humuli). Infected specimens of F. rubra were received from Highland Park and Ottawa, Ont. (D.B.O. Savile).

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#### GAILLARDIA

Yellows (Callistephus virus 1). Infection was heavy in Queens name su alante provinse i anateri estas. A la constructione de la constru Co., P.E.I. (R.R. Hurst).

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#### GLADIOLUS

Yellows (Fusarium oxysporum). Infected plants were received from St. Catharines, Ont., and Acton Vale, Que. (D.B.O. Savile).

Penicillium Rot (P. Gladioli). Slightly infected samples of Leading Lady were received from St. Catharines, Ont. (D.B.O. Savile).

Scab (Pseudomonas marginata). Infection was serious in a large proportion of the corms of a grower at Erickson, B.C., who specializes in cut blooms. The plants had been grown on the same soil for the last two years (M.F. Welsh). Half the corms of a planting of Picardy in Lincoln Co., Ont., were attacked (G.C. Chamberlain). Scab was moderately prevalent in the Guelph district (S.A. Simmons). Specimens were received from Brantford and North Bay, Ont., and St. John, N.B. (D.B.O. Savile). Infection was 2-3% at Kentville, N.S. (D. Creelman).

Core Rot (<u>Sclerotinia Dravtoni</u> Buddin & Wakef. (<u>Botrytis</u> sp.) is apparently increasing in Ont. In some storages up to 50% infection occurred in certain varieties (S.A. Simmons). Infected corms were received from Almaville, Que., in Feb. 1947 (D.B.O. Savile). The perfect stage of this organism is described in R.W.G. Dennis and E.M. Wakefield, Trans. Brit. Mycol. Soc. 29: 150. 1946.

Dry Rot (Sclerotinia Gladioli). Specimens were received from Colonsay and Saskatoon, Sask., and Brantford, Ont. Specimens received from St. Catharines showed severe infection on Orange Gold and moderate on Rosa van Lima; what was probably dry rot was stated to be severe in other varieties; later, corms of Leading Lady from the same source were received having unusual lesions that covered most of the corm but were generally shallow; isolations confirmed that these were due to dry rot (D.B.O. Suvile). Some dry rot occurred in all storages examined in Ont. (S.A. Simmons). Severely infected specimens were received from St. John, N.B. (D.B.O. Savile).

Hard Rot (Septoria Gladioli). Severeby damaged plants were received from North Bay, Ont., and thousands of plants were stated to be similarly affected. A trace was present in corms of Loading Lady received from St. Catharines. Soverely infected corms were received from Montreal, with 75% of the crop stated to be affected, and Waterloo, Que., and from St. John, N.B. (D.B.O. Savile).

Bacterial Blight (Xanthomonas gummisudans). Specimens were received from London, Ont. It was stated to be heavy on the whole plantation, and what seemed to be the same disease was said to be common in the district (D.B.O. Savile).

Mosaic (?virus). Six plants received from Arnprior. Ont., showed a severe mottle. The owner stated that he had rogued out many similar plants in 1945, and then had discarded all his old corms and bought new ones; in 1946 a new location was used but the same trouble was showing up. Young plants with a severe leaf mottle were received from Montreal, Que. (D.B.O. Savile).

#### GYPSOPHILA

Storility (?Callistephus virus 1). Two plants out of 25 of G. elegans in a garden at McKellar, near Ottawa, Ont., were sterile and spindly in habit. Five out of 50 plants of Callistephus chinensis in the same garden were infected by yellows (I.L. Conners).

#### HEDERA - IVV

Bacterial Leaf Spot (Xanthomonas hederae). Leaves of <u>H. Helix</u> from Flin Flon, Man., received from Fron. T.G. Mantempool, bore typical lesions (D.B.O. Savile).

HELIANTHUS - Sunflower

Botanical Garden, Montreal, Que. (J.E. Jacques).

Downy Mildew (Plasmopare Haistuddh). Part of a systemically infected plant of <u>H. rigidus</u> var. Miss Mellush was received from Gananoque; Ont.; other small plants were stated to have been severely damaged (D.B.O. Savile).

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HELICHRYSUM - Brerlasting deteres in continues of the success of the state of the second state of the second state of the second second second state of the second second

IRIS (1942 & 19200000 .E.L) beltdos viernose en e lies instruction aparell

Leaf Spott (<u>Ditymelling mecrospore</u>) occurred quite generally det throughout the interior of B.C. (G.E. Woolliams). At the Botanical Garden, Montreal, Que., plants in a sandy soil of SH 7 or newer were badely diseased, whereas plants in soils of SH 7.5 or higher were healthy (U.E. Jasues). Severely infected spectmens with the aplear healthy (U.E. Jasues). received from Rosemere's 500 plants were stated to be similarly affected (D.B.O. Savile). Damage varied from slight to severe in Queens Co. P.E.L. (R.R. Hurst).

Botanical Garden, Montreal, Quertar Bodardonal Garden, Montreal, Quertar Bodardon State State

Wedgewood and II bind than received from a Windson, Ont., greenhouse in Fab. 1947; the stock was of Friden origin (D.B.O.I Savele). and the stock was of Friden origin (D.B.O.I Savele). and the stock was a first on the stock was a first of the sto

Garden, Montreal, Quer, nearly all plants of Queen Sutarina showed symptoms of leaf blight; adjacent variet is more healthy h). E. Licques).

- Rust (<u>Fustinis Tridis</u>). Ausingle specimen was received (R.R.

Mosaic (virus). Infection was about 50% in samples of Wedgewood, Excelsion, and I. tingitana received from a greenhouse at Windsor, Out., in Feb. 1947, the stock was of French origin (B.R.O. Savile).

Blindness (?physiological). About 25% lof Wedgewood and 50% of <u>Lingitane</u> received from Windsor, Owt., in Feb. 1947 showed severe stunting and blossom failure; the symptoms were particularly marked in <u>L. tingitane</u>. Although some of these plants were infected by Peniciklium and mosaic (v.s.), the damage could not be attributed to these diseases. This is believed to be the blindness referred to by W.C. Modra (Diseases of Bulbs, Bul. M7. Brit. Min. A.r. & Fish. 1939), who suggests that it is sometimes due to sumless weather during the previous summer; this may well be the explanation in this instance, since the summer of 1946 was extremely wet in much of western Europe. Similar plants from Ditch stock were received from Montreal, Que., in March (D.B.O. Savile).

#### LATHYRUS

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Queens Co., P.E.I. (R.R. Mirst) Main and Interfered on L. <u>bdoratus</u> in Queens Co., P.E.I. (R.R. Mirst) Main and Interfered of Legender and Interference of the alternation (Legender 1995) and the state of the second of the second state of the sec

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#### Lathyrus

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HIRARY CHARLES MAD S. S. & S. S. States Root Rot (?Fuserium). A report from Dunham, Que., referred to sweet pea plants drying up in July (D.B.O. Savile).

Powdery Mildew (Microsphaera diffusa). A trace occurred in Queens Co., P.E.I. (R.R. Hurst). Real and the second state of the

Mosaic (virus). Odd infected plants were seen in Queens Co., • Construction services and the service services of the construction of the service of the se P.E.I. (R.R. Hurst).

Bud Drop (excess nitrogen) was very heavy in four gardens at Charlottetown, P.B.T. (R.R. Hurst) as well when caused a second static college the

Charles of specifical spectra leanse star energy in SHEW SHEET LILIUM - Lily

Blight (Botrytis elliptica) was reported to have caused serious injury to Madonna lily (L. candidum) at several points in Ont. (J.E. Howitt). Severely infacted plants of L. regale were received from Mount Royal, Que. (D.B.O. Savile).

Mosaic (virus). All plants of L. canadense at the Botanical Garden, Montreal, Que., were severely mottled (J.E. Jacques). A single plant of La sp. received from Montreal showed severe mottling and some distortion (D.B.O. Savile). 

Chlorosis (non-parasitic). Several young plants of L. speciosum Same in the magnificum at Rockeliffe, Ont, showed poor growth and slight yellowing and mottling; one, when dug, proved to have made almost no root growth. The trouble is believed to have been due to late planting (Nov.) the previous falls (D.B.O. Savile) . A standard before a second contents of the second content contents of the second

#### LONICERA - Honeysuckle address 270 .....

MARCHINE STRATES AND A Leaf Blight (Glomerularia Lanicerae), In the Arboretum, Ottawa, Ont., infection occurred on Labelda, L. bella var. candida. L. discolor, L. iberica var. microphylks, L. Maximoviczit, L. Morrowii, L. notha, L. orientalis, L. orientalis war. longifolia, L. tatarica, and L. sp.; some bushes were severely affected. A heavily blighted specimen was received from River Beaudetter, Lake St. Francis, Que. (D.B.O. Savile).

Powdery Mildew (Microspheere Alni) was severe and caused premature defoldation at the Botanical Garden, Montreal, Que. (J.E. Jacques).

#### LUPINUS - Lupine

Eye Spot (Ovularia lupinicola Pollack). DAOM 5975 on L. arcticus, Black Tusk, B.C., 193d, coll., J.W. Eastham, and DAOM 19136 on L. sp., Brentwood, B.C., 1945, toll. W. Jones, both agree well with this species, described in J.A. Stevenson, Mycol. 34: 531. 1946. See P.D.S. 23: 111 end 25: 116 (D.B.O. Savile). or a garrier a sector year

the standard

Downy Mildew (Peronespore Trifoliorum de Bary) was moderately heavy on L. polyphyllus var. Hussell at Agassiz, B.C. Downy mildew has previously been recorded on L. perennis in Ont. and Wis., and was assigned to this species in each case. As Gaumann points out (Beitrage zu einer Monographie der Gattung Peronospora Corda. Zurich. 1923) P. Trifoliorum is a collective species, and the form on Lupinus is probably distinct. In the present specimen the conidia are 18-31.5 x 15-22, commonly 22-25 x 18-20 microns, pale brownish yellow, dark brown in mass (W. Jones, D.B.O. Savile).

#### NARCISSUS

Bulb Nematode (Ditylenchus, dipsaci). Stunted and yellowed forced plants were brought for examination at Ottawa, Ont. (D.B.O. Savile). Plants in four beds at the Botanical Garden, Montreal, Que., were severely attacked and had to be discarded (J.E. Jacques).

#### Narcissus

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Smoulder (Soleronthia navele collet. T Specifiens were sent in for identification from River Hobert, N.BI (JIFL Hockey), This is a set of the s

-050 2720 Yellows (Ocalletophus/virus 1) LLA A few affected plants were seen in Queens Co., P.E.I. (R.R. Hurst). (Structure of States of Structure of States of Structure of S

PARONIA - Peony & nature view one an even and he atake analyse and we have and

Blight (Botritis Pacohing). Infection was severe on steins and a buds in soveral plantings at Edmonton, Altest(MiW.C.). Specimens were b) received from Shanty Bay, Ontif with the statement that it was heavy in a number of plants. A single blighted bud (probably <u>B. cinerea</u>) was received from Toronto (D.B.O. Savile). Blight was moderately severe at Ste. Anne de la Pocatiere, Que. (R.O. Lachance). It caused severe damage in Queens Co., P.E.I. (R.R. Hurst). due to the position (compliance) of the

Leaf Blotch (<u>Cladospertum</u> <u>Pacenise</u>). Soverely marked leaves were received from Gananoque, Ont., 30 Sept. Some <u>Cladosporium</u> and some Alter-<u>naria</u> were present; but the predominant organism was a <u>Phyllostista</u> with small, bacillar sperse; which may <u>Rave</u> been <u>domispa</u>dnidial stage of the <u>Cladosporium</u> (D.B.00 Savile).

Root Knot (<u>Heterodera marioni</u>). Knots, with immature nematodes present, were found on roots in a garden (at Ottawa, Ont., in April; the plants had been declining steadily for saverally cars. (D. B.O. Savile).

Mosale (virus) - Leoygne and Solange Showed Symptoms of mosale at the Botanical Garden, Montreal, Que. , but the disease descript seems to spread (JiE. Jacque States at 1994) and an application of the seems to be a spread (JiE. Jacque States at 1994) and an application of the seems to be a spread (JiE. Jacque States at 1994) and an application of the seems to be a spread (JiE. Jacque States at 1994) and the spread of the second spread (JiE. Jacque States at 1994) and the spread of the sp

Moad ) and Swift Cuirtent, Seatt (III) - Sailans Junious and State (H.W. C. Moad ) and Swift Cuirtent, Seatt (III) - Sailans Junious and Loss and Souther the Analest and the sail of the seat of the seatther and the seatther the PAPAVER - Poppy . Link web a matter of the state of the seat for the seat

Leaf Spot (<u>Alternaria</u> sp.). (A miderately heavy spotting occurred on two clumps of F. <u>Grienters</u> in the Arboretun, Ottawa, Onto <u>A</u>. sp., apparently not <u>A. tenuis</u>, Truited inconspiculturity among the Dong epidermal hairs on many spots. The fungis does not fruit readily in dulture and has not been positively identified, but, according to Dr. Neergaard, it seems to be distinct from those previously reported on <u>Papaver</u> (D.B.Q. Savile).

townysP.E.I. (R.R. flurist). (processing) plletennisperte) dodie i on (akslasting) .0.0] . Medically Body of the second second

PELARGONIUM - Geranium to be beaust (automin section (attained)) sector Stem Rot (Pythium sp.).(a An affected plant, was received from near

Toronto, Ont. (D.B.O. Savile). Leaf Outl (virus). Specimens were repeired from two greenhouses near Toronto, Ont. 1 in one instance 50 out of 200 plents were stated to be affected (D.B.O. Savile).

PETUNIA Mosaic (ririe). One variety: Blue Ball, carried about 40% infection in a planting near Vistoria, B.O. (W.R. Foster).

unite unitablet, she tradet iste en elle Chille Chille and alle se and and an art and a state of the

PHLOX

Powdery Mildew (Erysiphe Cicheracearum) was prevalent and caused serious injury to P. paniculate in many parts of Ont. (J.E. Howitt). A heavily infected specimen was received from Virginiatown. Mildew was heavy in many plantings at Ottawa by the end of July (D.B.Q. 19 Savile), It was heavy at Kentville, N.S. (D. Creelman) and at Charlottetown, P.E.I. (R.R. Hurst).

Blight (?virus). At the Botanical Garden, Montreal, Que.. infection was severe early in the season and many stalks died down. New stalks that developed later showed no symptoms on flowers or leaves (J.E. Jacques). Several plants were affected in a garden at Charlottetown, P.E.I. and this trouble was frequently submitted for examination (R.R. Hurst) er i beskevijt 计分子 医子宫外的 医白白白

PORTULACA - Purslane

Wilt (Fusarium sp.) attacked a small percentage of plants in several fields being grown for seed at Grand Forks, B.C. (G.E. Woolliams). A LANGE STREET Robert States and 1.446.011 Lat the Contained

ROSA - Rose

Crown Gall (Agrobacterium tumefaciens). One specimen was received from Ottawa, Ont. (L.T. Richardson). Four cases, involving severa damage to Dorothy Perkins and Paul's Scarlet, were seen at Charlottetown, P.E.I. (R.R. Hurst)

and attain the dense

Die-back (Cytospora ambiens). Specimens of standard roses were received from Leamington, Ont. Thirty were stated to be infected out of an unspecified total (D.B.Q. Savile). . Grander de

Black Spot (Diplocarpon Rosae). In specimens submitted by Mr. James W. Bish, Waterloo, Ont., from bushes that had been heavily incoulated, a seedling thought to be R. xanthina x actoularis was heavily infected; but R. spinosa altaica and a hybrid seedling of R. spinosissima showed what seemed to be a resistant reaction, a few small, sterile leaions with the typical radiating hyphae being present. Black spot was moderate to severe on all polyanthas and on several unnamed species in the Arboretum, Ottewa (D.B.O. Savile). It caused premature defoliation of several varieties at the Botanical Garden, Montreal, Que. (J.E. Jacques). A lightly infected specimen was brough in at Charlottetown, P.E.I. (R.R. Hurat). 1 SV

Stem Canker (Leptosphaeria Coniothyrium). Large cankered areas were found on Gloaming hybrid tea in Lincoln Co., Ont. y Valsa sp. was also associated with the cankers (G.C. Chamberlain).

Leaf Spot (<u>Mycosphaerella</u> (<u>Cercospora</u>) <u>rosicola</u>). A specimen was received from Moose Range, Sask. (G.C. Chamberlain).

Rust (Phragmidium americanum) caused moderate damage to several varieties at Kentville, N.S. (D. Creelman). A single specimen of Phragmidium sp. was brought in at Charlottetown, P.E.I. (R.R. Hurst). Anthracnose (Sphaceloma Rosarum). A small specimen showing

moderately severe injury was received from Strathroy. Ont. (D.B.O. Savile).

Powdery Mildew (Sphaerotheca spp.). A request for information concerning felty masses on canes and thorns indicated the presence of S. pannosa at Victoria, B.C. Moderate to heavy infection by S. pannosa occurred in the Arboretum, Ottawa, Ont., on R. multiflora, R. polyantha var. Coralline, R. Pratti, Rev rubiginosa, several varieties of Reverges, and several unnamed bushes (D.B.O. Savile). S. pannosa was general but not severe at the Botanical Garden, Montreal, Que. (J.E. Jacques). A specimen showing the conidial stage on the leaves was received from

#### Rosa

Abbotsford (D.B.O. Savile). S. pannosa occurred on a rambler rose at Kentville, N.S. (D. Greelman). Powdery Mildew was very heavy and injurious to Crimeon Rambler at Charlottetown, P.M.I. (R.R. Hirst).

Mosale (Virus) was seen on a single bush at Kentville, N.S. (D. Creelman).

SCHIZANTHUS - Butterfly Flower And the State Sta

Yellows (Callistephus virus 1) attacked occasional plants in Queens Co., P.E.I. (R.R. Hurst).

SOLIDAGO - Goldenrod

Powdery Mildew (<u>Erysiphe</u> <u>Cichoracearum</u>) was so heavy at the Botanical Garden, Montreal, Que., that the plants were almost white (J.E. Jacques).

TAGETES - Marigold

Yellows (Callistephus virus 1) caused slight damage in Queens Co., P.E.I. (R.R. Hurst).

TULIPA - Tulip

Fire (<u>Botrytis Tulipae</u>) was unusually severe in the Okanagan Valley, B.C., despite a dry spring. Late melting of the snow may have contributed to the outbreak. Pin-point infection of leaves and blossoms was seen at Kelowna, where the disease does not usually occur. No fire was found in one large commercial planting at Vernon, where the air drainage was good; but it was very prevalent elsewhere in the district, one grower suffering considerable loss from severe leaf and blossom lesions on which the fungus fruited freely. At Salmon Arm and Enderby infection was largely of the pin-point type (G.E. Woolliams). Nearly every bloom of red varieties was marked at St. Jean de Dieu Hospital and the Botanical Garden, Montreal, Que. (J.E. Jacques). Heavily infected specimens were received from Quebec City (D.B.O. Savile). Fire caused severe damage in a bed of mixed tulips at Kentville, N.S.; at digging time a few of the bulbs bore sclerotia on the scales (J.F. Hockey). Traces of fire occurred in a number of gardens at Charlottetown, P.E.I., and one severe outbreak was reported (R.R. Hurst).

Break (virus). In a commercial planting at Kelowna, B.C., break increased from 0.06% in 1945 to 1.0%; but at Vernon there were only very small increases and at Salmon Arm there was a slight reduction (G.E. Woolliams). A trace was seen in a red variety at the Botanical Garden, Montreal, Que. (J.E. Jacques).

#### VIOLA

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Root Rot (<u>Pythium</u> sp.). Pansies from Vankleek Hill, Ont.; with rotted roots and bases of stems yielded <u>Pythium</u> sp. (L.T. Richardson). Powdery Mildew (<u>Sphaerotheca Humuli</u>). Specimens of infected pansy were received from Goderich, Ont. (J.E. Howitt).

YUCCA

Leaf Spot (<u>Coniothyrium concentricum</u>) heavily infected the lower leaves of <u>Y</u>. sp. at the Experimental Farm, Saanichton, B.C., producing dark bordered, ashy centered spots up to  $1\frac{1}{4} \times 3/4$  in. Proviously reported in the

Yucca

S. Balanter

Survey from Kentville, N.S., but there are specimens in the Herbarium from Agassiz, B.C., and London and Ottawa, Ont. (W. Jones, D.B.O. Savile).

· 是"我们的,我都能不是你的,我们就能是你的,你们都是你们不知道,我们还能能帮助。"

ZINNIA

Stem Rot (?<u>Sclerotinia</u> <u>sclerotiorum</u>) was destructive in a nursery at Charlottetown, P.E.I. (R.R. Hurst). Yellows (Callistephus virus 1) caused slight damage in P.E.I.

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(R.R. Hurst).

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