## VI. DISEASES OF ORNAMENTAL PLANTS

Lodouline alle and and (and lotte and and extent ACHILIEA

Rust (Puccinia Ptermicas) was observed in the same locations as last year (P.D.S. 26:81. 1947) and elsewhere in Kamouraska Co., Quee, on A. Ptarmica var. The Pearl. It was also found at Ste. Luce, Rimouski Co. (A. Payette, R.O. Lachance). ACONITUM - Monkshood

Yellows (Callistephus virus 1). Two severely affected plants were found in a garden at Fredericton, N.B. (D.J. MacLeod).

ALTHAEA ROSEA - Hollyhook

Rust (Puccinia Malvacearum) was found on some plants at Edmonton, Alta,, and was severe on plants at Brooks (J.D.G.). Rust was general at the Botanical Garden, Montreal, Que (J.E. Jacques) It was heavy and caused severe damage at Kentville, N.S. (D. Greelman), Fourteen specimens were brought in for diagnosis at Charlottetown, P.E. I.; infection was a trace to very heavy (R.R. Hurst).

· C andfredm England Commence utanio Joseff office a (advices, a particulation) when ANTIRRHINUM - Snapdragon

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Powdery Mildew (Oldium sp.) caused slight damage to A. majus in a greenhouse at Sooke, B.C. (W. Jones), VErgsiphe Pelygeni and E. Cichoracearum are reported on Antirrhinum, but this is the first report to the Survey of any powdery mildew on this host.

at Agassiz, B.C. (W. Jones). Yellows (Callistephus virus 1). A trabe was found in two gardens

in York Co. and one in Sunbury Co., N.B. (D.J. MacLeod).

AQUILEGIA - Columbine

TATES AND AND CONTRACTOR DOTOR OF Aquilegia sp. at Elk Lake, B.C. It was recognized by Dr. K.F. Baker. This is the first Canadian record of this fungus (W. Jonas). Dr. Baker reports that this disease was very destructive in California in 1940, the first year that it was recognized. It has occurred sporadically since, but has always been less severe. The name peacook less spot has been used in the United States, but in our material the lesions are not conspicuously zonate, and the term leaf blotch used by W.C. Moore (Trans. Brit. Mypol. Soo. 22:266+277. 1939) seems proferable. Notes supplied by Drs. Baker indicate that many species and verifies may be attacked but that marked differences in susceptibility may be found, Our material agrees closely with the description given by Moore except that the swellow annidiophores often bear up to about 10 storigmate rather than 1-4. These storigmate, which are often dumbbell-shaped, bear 1-4 scars at the open, similar to those on the conidiophore from which they arise, and each of these scars is the point of attachment for a chain of spores. Conidiophores about 25 microns high, 5-6 midrons broad near base, 12-14 microns ab flattened heady storigmata 9.5-17.0 x 5.5-8.5 migrons; spores 4.8-9.5 migrons diame, spherical to broadly ellipsoid, minutely roughened, light yellow baugreyish brown when A State of the second stat cleared in lactophenol (D.B.O. Savile).

ARABIS - Rock-Cress

White Rust (Cystopus candidus) moderately infected A. alpina in a rock garden at Victoria, B.C., in 1946; first report on Arabis from B.C. (W. Jones). 

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## ASTER

Powdery Mildew (Erysiphe Cichoracearum). A. novae-angliae and A. novi-belgii were severely attacked at the Botanical Garden, Montreal, Que. (J.E. Jaoques). A set and an and and and and a set at at Part & States and a surger and an

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## BEGONIA

Leaf Nematode (Aphelenchoides fragariae). Many plants in a commercial greenhouse at Montreal, Que, were badly affected; previously reported from B.C. (J.E. Jacques).

Bacterial Leaf Spot (Xanthomonas begoniae). Several species were affected in the greenhouses at the Botanical Garden, Montreal, Que. (J.E. Jacques). And the second second second second second Mai at start and a

## BERBERIS - Barberry

Rust (Puccinia graminis). The first pyonia were starting to secrete nectar on 30 May 1947 in the Arboretum, Ottawa, Ont. (I.L. Conners, D. B. O. Savile). Rust was very heavy on some escaped bushes at Fredericton, N.B. (J.L. Howatt). BOLTONIA Streak (virus) affected 40% of the plants in the border at the

Streak (virus) allected 40% of the press and the station, Fredericton, N.B. (D.J. MacLeod). a salah ing salah salah salah mengangkan kanan salah sala

## CALENDULA

Yellows (Callistephus virus 1) severely damaged 50% of the plants of C. officinalis in the border at the Station, Fredericton, N.B. (D.J. MacLeod). Infection was 100% in a planting of Orange King, and was generally severe at Charlottetown, P.E.L. (R.R. Hunst).

 Constraints CALLISTEPHUS CHINENSIS - China Aster

Wilt (Fusarium oxysporum f. Callistephi). A few plants in a seed orop were affected at Saanishgal.C. (W. Jones). Wilt was found in a garden at Edmonton; Alta. (A.W. Henry). This disease was destructive in a commercial planting of a reputedly wilt-resistant variety at Fort Garry, Man.; the organism was isolated (W.L. Gordon). Wilt killed 15 out of 300 plants in a mixed bed in the Arboretum, Ottawa, Ont. (D.B.O. Savile). Yellows ( Callistephus virus 1). A specimen was received from

Caughnawaga, Que, (D.B.O. Savile). Yellows was general and severe in York, Sunbury, Queens, and Westmorland Co., N. E. (D. J. MaoLeod).

CAMPANULA Rust (Colcosportum Companulae), reported last year (P.D.S. 26:82. 1947) from L'Islet and Kanouraska Co., Que., on Campanula robundifolia var. intercedens, was found on the same host near Bonaventure, some 220 miles 的复数**的**物的复数形式的复数形式的复数形式的复数形式的现在分词 化分子 further east (D.B.O. Savile).

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## CENTAIREA.

Rust (Pucoinia Cyani) was severe in 1946 on a few plants of C. Cyanus in a nursery at Langley ab. Ct (Maldones ) due fator infliend of

Root Rot (Pythium sp. ) severely (injused plants of C. Cyanus received from Gananoque, One The trouble was stated to be severe in one bed but absent from others (D.B.O. Savile).

Leaf Spot (Septoria centaureicola var. brevispora) caused slight damage to a few plants of C. Cyanas in a gardam at langley. D. C.; previously reported from Man. and Ont. (W. Jones, D. B.O. Savile).

### CENTRANTHUS

Yellows (Callistephus virus 1). Three affected plants of C. ruber were found in a garden at Fredericton, N.B. ((Dele MacLeod)). First report to the Survey on this host. All tallowers sultarador for construction

SELSINONE allowed to

CHRYSANTHEMUM Nematode (Aphelenchoides fragarice) affented a few plants at Victoria, B.C. (W. Jones). Many plants were attacked in a greenhouse at North Saanich (J. Bosher). This trouble was very prevalent in a commercial greenhouse at Montreal, Que, most of the plants being infected, (J.E. Jacques).

Powdery Mildew (Erysiphe Cichoreneerym) was becoming conspicuous in a greenhouse at Montreal, Que., on 13 Oct. (J.E. Jacques).

Leaf Spot (Septeria chrysanthemelia) injured a few plants of C. maximum in a garden at Courtenay, D.O., in 1946 (W. Jones). The lower leaves of chrysanthemums in a commercial greenhouse at Montreal, Que, were heavily spotted in Oct. (J.E. Jacques).

Canker (?baoterial). Specimens were received from Brampton, Ont., that had been topped to stimulate flowering. Each stem was blackened about the cut and sometimes for 3-4 in. downward, the corper was softened, and the pith and xylem were brown. A bacterium was consistently isolated (R.G. Atkinson).

Chimera (cause unknown) Specimens of December Gold, received from Crystal Beach, Ont., were seriously disfigured by pale streaks on the leaves. Other varieties were stated to be unaffected. The affected areas ran out from the veins and were pale green and slightly sunken when above, and grey green and markedly sunken when on the lower surfaces, occasionally lesions on both surfaces overlapped to give white areas. Sections showed that the affected tissue consisted of small, undifferentiated parenchyma cells, laoking chloroplasts and similar to the border parenohyma (D.B.O. Savile).

Stunt (cause unknown, possibly virus). A new disease of ohrysanthemums has been encountered in several commercial plantings in Ont., of cuttings originating from Yoder Bross, N.Y. State. At St. Catharines 30% of a planting of Snow were affected. Other varieties found especially affected were Anaconda, Aprisot, Queen arga, Betsy Ross, Detroit News, Friendly Rival, and Nevada (G. H. Berkeley). Stunt has become a serious problem in a large commercial greenhouse at Falmouth, N.S., during the last two years. This establishment obtains most of its rooted outtings from Yoder Bros. In the imported stock infection was over 50%, whoreas it was less than 1% in stock rooted locally (J.F. Hackey). Although this trouble, traces of which have recently been observed in intercepted hursery stock from Yoder Bros, has the appearance of a virus disease, no success has been ( Course - C

## Chrysanthemum

reported in transmitting it. Hockey's observation of small emounts of the trouble in locally rooted outsings might be interpreted as evidence of spread; but the trouble might be physiological and the different amounts of it explainable by different conditions of rooting (D.D.O, Savile).

anere (starge former and a star of the sta CLEMATIS

Rust (Puccinia Clomatidia) was light on C. sp. at Lethbridge, Alta. (M.W. Cormack).

## CONVALLARIA MAJALIS - Lily-of-the-Valley

Blight (Botrytis cinerea) caused considerable damage at New Westminster, B.C. (R.J. Hastings). Anthracnose (IGloeosporium Cenvallariae) was heavy on three

leaves received from Oakville, Ont. The lower limits of the spore size agreed with G. Convallariae, but the great variability in the spores leaves the identity in doubt (D.B.O. Savile).

Yellows ( Callistephus virus 1) affected one plant of C. tinctoria at Fredericton, N.B. (D.J. Macleod): (D.J. Mac

Blight (Botrytis ofnerea) caused slight damage at Charlottetown, P.E.I. (R.R. Hurst). 

## CROCUS

Wilt (Botrytis sp.) attacked a few plants of a yellow variety at Gordon Head, B.C., In 1946 (W. Jones)

### CYCLAMEN

Root Knot (Heterodera marioni) was affecting about 700 out of 1100 plants in a commercial greenhouse at Ottawa, Ont., in mid August, symptoms ranging from slight yellowing or our ling to complete death. Eventually almost all the plants were lost. Tomatoes grown in a sample of the compost used for these syclamen remained healthy. It is believed that the nematodes had been present previously in the greenhouse on a tolerant host and had passed unobserved (D.B.Q. Savile). about merely of sole to the strate strate of the state of

## DAHLIA

Mosaio (virus) was seen in several varieties in many gardens at Charlottetown, P.E. I. (R.R. Hurst). 是这些人的意思,我们就是我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们就不是我们的人, 我们们就是我们,我们们就是我们就是我们就是我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们就是我们的人,我们 我们们们是我们们就是我们的人,我们就是我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人

## DAPHNE

PHNE Anthracnose (Marssoning Daphnes) caused considerable defoifation of D. Mezereum at Cobble Hill, Blo. In 1946, (W. Jenes). DELPHINIUM - Lorkspur

Powdery Mildew (Erysiphe Polygoni) severely injured the plants in the University plots, Edmonton, Alta. (J.D. Gilpatrick). It was heavy in a garden at Arundel, Que. In a garden at Perce it was heavy in one bed but absent from a second (D.B.O. Savile). Mildew was heavy in a garden at Charlottetown, P.E.I. (W.A. Hodgson, R.R. Hurst).

## Delphinium

Wilt (?Fusarium sp.), One dying plant was found at Lethbridge, Alta., and F. sp. was isolated (M.W. Cormack). Hasterial Blight (Escudomones delphinii). Severe damage was seen in the University plots, Edmonton, Alter (J.D. Gitputrick). Infection was heavy on certain plants at the Experimental Farm, Indian Head, Sask., there appear to be considerable variatal differences in susceptibility (R.C. Russell). A few plants at the Botanical Garden, Montreal, Que, were attacked after flowering (J.E. Jacques).

Mosaio (?Cuoumis virus 1) affected a few plants in a garden at Agassiz, B.C., in 1946 (W. Jones), A single plant was brought in at Charlottetown, P.E.I. (R.R. Hurst).

in a garden in Sunbury Co., N.S. (D.J. MacLeod). Yellows (Callistephus virus 1). Two affected plants were found

### DIANTHUS

Wilt (Fusarium spp.). F. Equiseti was isolated from a plant of D. Caryophyllus var. Polyanna at Esquimalt, B.C., 24 Jan. 1946 (W. Jones, W.L. Gordon). Wilt, with F. sp. present in speciment caused severe stunting, yellowing and leaf ourling of D. Caryophyllus vars. Peter Fisher and Virginia at Brampton, Ont., in June; the soil in the bed had not been changed or sterilized for several years (D.B.O. Savile). sterilized for several years (D.B.O. Savile).

Loaf Rot (Heteropatella valtellinensis (Trav.) Wollonw.) recently intercepted by the U.S.D.A. in a shipment of varnation outtings from New Westminster, B.C., and was soon afterwards discovered to be established in the neighbourhood of Seattle, Wash, According to W. Buddin and E.M. Wakefield (Trans. Brit. Mypol. Soc. 14:215-221. 1989), who desoribed the fungus as Heteropatella Dianthi, large, sort, greyish or brownish lesions are formed on the leaves and stems, on which can be seen the small, raised fruit bodies. The fruit bodies may be accompanied by a hyphomycobous phase (Bsaudodiscosia Dianthi Host. & Laub.), which is the only spore form seen in culture. The conidia are typically 20-25 x 445 microns, excluding a short basal and a 12+20 (30) micron apical appendage, and 2-3-septate. Under dry conditions the spores are smaller, 0-1-septate and generally lack appendages. Plant pathologists are asked to examine carnations carefully to determine the mange of this disease, which has not previously been found outside Europe. The Lungue was originally described from D. ourthusianorum; other Dianthus spp. should therefore be examined. Optimum growth in culture occurs at 19-20°C, and Buddin and Wakefield suggest that the disease is favoured by cool, wet conditions (D.B.O. Savile).

Leaf Spot (Heterosporium echinulatum) caused considerable damage to D. barbatus var. Sparlet Beauty at Brentwood and Gordon Head, B.C., in July 1946. It proved injurious and difficult to control on D. Caryophyllus in a greenhouse at Langley in June 1946 (W. Jones).

Bacterial Leaf Spot (Pseudomonas Woodsil' (E.F. Smith) Stevens) caused moderate demage to D. Carvophyllus in a greenhouse at London, Ont., in February (R.G. Attingen) storge er fr in February (R.G. Atkinson).

Leaf Spot (?Septoria Dianthi Desm.) occurred on plants at Edmonton, Alta. (A.W. Henry).

DIMORPHOTHECA - Cape Marigold Yellows (Callistephus virus 1). Three plants were affected at the Laboratory, Fredericton, N.B. (D.J. MacLeod).

## ERYTHRONIUM

Blight (Botrytis ?Tulipae) affected a few blossoms of E. grandiflorum, 9 Apr. 1947, at North Saanich, B.C. Isolations ylelded a fungue similar in culture to B. Tulipae, and incoulation of tulip gave lesions similar to those of fire, later the fungue was found also on dying leaves of E. grandiflorum, and finally what appeared to be typical B. Tulipae, from tulip was found to be pathogenic to Erythronium in the greenhouse (W. Jones). ibas -

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Rust (Uromyces heterodermus) was common at North Saanich, B.C. (W. Jones). 

## ESCHSCHOLZIA

Yellows (Callistephus virus 1) was severe on 3% of the plants of E. californica at the Laboratory, Fredericton, N.B. (D.J. MacLeod).

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### FREESIA

Mosaic (Phaseolus virus 2). Infection was 95% in 15 flats of Marie in a greenhouse at Toronto, Ont., with severe mottling and stunting, and necrosis of the upper parts of the leaves. Infection was 5% in 15 flats of Red, but symptoms were confined to mottling and slight stunting. No infection was observed in Blue, Golden Giant, Oriole, White and Yellow. The corms had originated from California (C. Copeland, D.B.O. Savile). This disease has recently been shown to be due to the same virus that causes the widespread mild mosaic of gladiolus and the serious yellow mosaid of bean. See P. Brierley and F.F. Smith (Ourrent status of gladiolus virus disease problems. The Gladiolus Magazine 12:38-40,46. 1948) for discussion of this virus.

### GAILLARDIA

Smut (Entyloma Compositarum). A trace to moderate damage was seen in several plantings of G. aristata at or near Ottawa, Ont. (D.B.O. Savile).

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Yellows (Callistephus virus 1). A single plant of G. aristata in the Arboretum, Ottawa, Ont., showed what appeared to be current season infection; the earliest heads were normal, later ones slightly stunted, and the latost very abnormal or completely storile (D.B.O. Savile). A trace was seen at the Laboratory, Frederioton, N.B. (D.J. MacLeod). G. aristata var. Dazzler in a planting at Charlottetown, P.E.I., showed 10% infection with severe injury (V. Clark).

## GEUM - Avens

Downy Mildew (Peronospora Gei Syd. ex Gaumann) was general. and caused severe damage to a seed crop of G. childense var. Mrs. Bradshaw at Keating, B.C. First report to the Survey. Spores mostly 15-19 x 13-17 microns; in P. Potentillag, to which this form was at first assigned, the spores are mostly 23-30 x 14-21 microns (W. Jones, D.B.O. Savile). The second second Sectory and

## GLADIOLUS

Yellows (Fusarium oxysporum) was definitely present in King of Hearts, and was suspected in Alladin and Chianti, in specimens received from Toronto, Ont., in July. Infection was severe in August in 5 out of 5 corms of Mrs. E. Both, imported from the United States.

## Gladiolus

but no inflotion was seen in 509 corms of other varieties in the same garden at Toronto (D.B. O. Savile). Sperimens were brought in from four

garden at Toronto (Debeve savarden (R.R. Hurst), Soab (Psoudomonas margingto), was heavy in specimens received from Penticton, B.C., in Mays 15 MGR, very heavy in all corms received (from Terrace in November, and a number had also been attacked by Penisillium and Botrytis, which had penetrated through the sgab lesibns, "Infected on' corms of several varieties were received from Foremost, Altn., In Nevember; new land was stated to have been used, but very wet weather in June is believed to have caused rapid spread. ....Severely infected corms were sold to received from Welland, Ont., in March. Infected plants of Alladin and King of Hearts were received from Toronto in June; the lesions were still visible on the old corms (D.B.O. Savile). Odd infected corms were found in storage in spring at the Bosanical Garden, Montreal, Que, and a few plants showed symptoms during the summer; Specimens were received from Quebec with the statement that the disease was very prevalent in o large plantation (J.E. Jacques). Infection was moderate to severe, with secondary Penicillium and Botrytis infection, in corms of several varieties repeived from Truro, N.S., in December (D.B.O. Savile).

Core Rot (Sclerotinia Draytoni) caused considerable loss in February and March at Hatzic and Frontwood, R.C. (W. Toureau). Specimens were received from Welland, Ont., in March (D. B.O. Savile).

Dry Rot (Stromatinia Gladioli (Drayton) Whetzel). Slight damage was seen on corms at Victoria, B.C., in December (W. Jonos). (Disensed.)) Vagabond Prince, received in a shrivelled state from Grand Forks had been attacked by dry rot at least in parta Seventy other varieties were said NO. 517 18 to be unaffected (D.B.O. Savile).

to be unaffected (D.B.O. Savile). Hard Rot (Septoria Gladioli) was heavy in corms received from Penticton, B.C., in May (D.B.O. Savile). The corms of one variety were heavily infected at Thorsby, Alta. (M.W. Cormack). A single infected corm of Rosa van Lima was received from Magnetawan, Ont., and unidentified borms were received from Welland in March. Heavily infected corms were received from Amhorst, N.S., in Jan. 1948 (D.B.O. Savila). Hard rot infection was 10% in one lot and 50% in a second in May at Charlottotown, P.E.I. (R.R. Bacterial Blight (Xanthomonas gummisudans) was moderately heavy Hurst).

on young plants of three varieties and a trace on others in the Arboratum, Ottawa, Ont. (D.B.O. Savile). In Jan. 1948 corms of White Gold were received from Burlington with ring-shaped lesions, supercially suggestive of white grub injury, surrounding the basel plate where the old corms had made contact. Slight to extensive becteris filled gum was present on all lesions (D.B.C. Savile).

B.O. Savilo). Mosalo (Phaseblus virus 2), A markedly mottled plant was received from Lennoxville, Que Lees discussion, under mosale of Freesia. It is now apparent that the slight mottle that often mearly uniformly () affects certain stocks of some verieties is due to the bean yellow mosaic virus. It may prove to be impossible to secure disease-free stocks of certain varieties. It is important that growers should be warned to segragate all gladiolus plantings from peas, beans, common clover and sweet olover, and in particular to segragans nursery stools from commercial gladiolus plantings as well as from all legumes (D.B.O. Savile). 3 Martin

## GODETIA

Rust (Pucciniastrum Epilobii) caused slight damage to G. grandiflora at Brentwood, B.C., in 1946; first report from B.C. on Godetia: (W. Jones.), This specimen agrees closely in urediniospere size with specimens on Epilobium sect. Lysimachien from coastal, B.C. In view of the finding (P.D.S. 23:106, 1944) that the rust on the latter hosts freely attacks Clarkia, it is probable that it is also a source of inotulum for Godetia (D.B.O. Savile).

Yellows (Callistephus virus 1). A trace was found in two gardens at Fredericton, N.B. (D.J. MacLeod). Marte P. Constant & Alforda State of the Angle of Alford

## under the south of the HELDNIUM . Sneegeweed

Fasciation (Corynobactorium fascians). A single affected plant of H. autumnale was received from Pointes Claire, Que. (D.B.O. Savile). Yellows (Callistephus virus 1) severely injured two plants of H. <u>autumnale</u> at the Laboratory, Frederiston, N.B. (D.J. MapLood). HELICHRYSUM - Everlasting

ANA CHARLES SEA SHARE A

# HELICHRYSUM - Everlasting

Yellows (Callistephus virus I) was seen on everlasting (?H. bracteatum) in four gardens in York Co.; N.B. prinfection was 2-7% (D.J. MacLood). [ Infection was 6% in a garden at Charlottetown, P.E.L. (G.W. Ayers). HYACINTHUS - Hyacinth Yellows (Xanthomonas hyacinthi) was present in a few bulbs

bought at a retail store at Vancouver, B.C., in April 1946, probably Dutch imports (W. Jones). Severely stunted plants were received from Windsor, Ont., in Jan. 1948. The disease was said to predominate in a Windsor, Unt., In Jula 1040. in assisted bulbs (D.B.O. Savile).

Powdery Mildew (Oldium sp.) was stated to be defoliating a single plant in a house at Almonte, Ont. (D.B.O. Savile). It was general but not severe in the greenhouse at the Botanical Garden, Montreal, Que, (J.E. Jacques). and the second and course And the second and course

## TRIS

The state of a second is the state of the state of the IRIS Leaf Spot (Didymelling macrospora) was common and often destructive at North Sannichs the spores were abundant on the lower leaves in May (W. Jones). Specimens were received from Toronto, Ont., with information that it was heavy on 100 plants in a garden (D.B.O. Savile). Specimens were received from Shallow Lake (I.L. Conners). At the Botanical Garden, Montreal, Que., plants in slightly aoid soil were severely spotted, whereas no sign of the disease was seen in beds with soil at pH 8.0 (J.E. Jacques). A moderate infection occurred at Kentville, N.S. (D. Creelman). Leaf spot was heavy and caused severe injury in a planting at Charlottetown, P.T. I., and three specimens were brought in for

identification (R.R. Hurst). Bulb Nematode (Ditylenchus dipsaci) was seen in P. do Ridder, grown from Dutch imported bulbs at Victoria, B.C. (R.J. Hastings).

Iris

Sort rot (Erwinia darotovora) caused slight damage to geveral variation of rhizomtous fris in the Arboretum, Ottawn, Onte; there was considerable lear infection aggravated by slug injury; May and June were very wet (D. B. O. Savile). Severe soft rot, following borer attack, developed in a planting at Charlottetown, P.E.I. (R.R. Hurst). Baoterial Lear Blight (Baoterium tardiorescens McCull,). Nearly

all plants of Mount Royal were more or less affected at the Botanical Garden, Montreal, Que, (J.E. Jacques). Statistic Lar see to rue batesta eras rately St

Mosale (virus) was common in Sierra Blue and El Capitan but not in 30 other varieties in the same garden at Winnipeg; Man. (T. Johnson). Infection was 80% in a greenhouse planting of Wedgewood at Windsor, Onb., in Feb. 1948 (D.B.O. Savile).

White Mould (Ramularin sp.) slightly damaged the lower leaves of L. odoratus at Saanichton, Bet. (W. Jones). H.M. (Good (Studies on the Cladosporium blight of sweet pea. Can. J. Res. 25(c): 137-154. 1947) failed to infect L. latifolius and several other leguminous genera. He questions whether Erostrotheca multiformis is the perfect stage of the white mould organism, as he was unable to develop it in culture, and he uses the name Cladosporium album Dowson. Actually it is diffectit to see why this organism, a typical Remularia despite Dowson's claims to the contwary, was rever placed in Cladosporium. Apart from the question of its genetic ownnection with E. multiformis, C. album does not appear to have been proved to be morphologically distinct from Ramularia Lathyri Hollos (1910) and other species of Ramularia and Ovularia described on Lathyrus. In view of the great variability of many members of this group of fungi such proof is clearly desirable (D.B.O. Savile).

Root Rot (Fusarium sp.), Specimens of L. orfloratus were received from North Bay, Ont. (D.B.D. Savile). Powdery Mildew (Morosphara diffusa), Infection was a trace to

moderate on L. odoratus vars. Amethyst, Fortune King Lavender, and Sextet Queen, in a garden at Charlottetown, P.E. T." (R.R.) Hurst ).

Mosaic (Pisum virus 2) attacked a few seed plants of L. odoratus at Saanichton, B.C. (W. Jones). Two plants were infected in a 50 ft. row at Charlottetown, P.E.I. (R.R. Hurst). Bud Drop (excess nitrogen) was severe in a greenhouse oron of L.

odoratus var. Rose Queen near Montreal, Que: in Dec. 1947; the plants were stated to be 12 ft. high (D.B.O. Savile). Traces occurred on Amethyst and King Lavender in a garden at Charlottetown, P.E.I. (R.R. Hurst).

LILIUM - Lily

100 . 10 M. - Sheek Nematode Blight (Aphelencholdes ritsend-bost)) caused severe damage to L. longiflorum vars. Croft and White Queen in a greenhouse at Esquimalt, B.C. Experimental transfers from chrysanthemums reproduced the disease, showing that the same form of the nematode attacks both plants. Natural infection of lilles outdoors has not been in B.C., but it is important in Washington State (R.J. Hastings).

Blight (Botrytis elliptica) was feirly general, 22 July, at Oyster

River, B.C., and was severe on L. speciosim (W. Jones). Bulb Rot (?Fusarium sp.). A specimen from Beaverlodge, Alta., Caracter and the second second

yielded Fusarium sp. (J.D.G.). Stump Rot (Phytophthorn phrasition Dust.). Soverely rotted mature plants of L. regale were received in early June from Ingersoll, Ont., and P.

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Lilium

parasitica was isolated . Infootion was stated to be heavy in the bed and in a bed of 200 seedlings of Le regale and Le tenuitfolium, but L. candi-dum and some Creelman lilies were unaffected. The tops of the plants foll over abruptly from when the stems were barely through the ground until they were about a foot high What was clearly the same disease was received in late May from Fort Hope, again in L. regale, but although coencoytie mycelium was present secondary decay made isolation impossible; 12 plants were affected out of several hundred and loss was stated to have been 50% in 1945. This is the first report to the Survey of this disease, but the pathogen may be widely distributed and the trouble is to be expected in exceptionally wet springs (D.B.C. Savile, L.T. Richardson).

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Fasciation (Corynebacterium fascians) attacked several plants of L. speciosum at Oyster River, B.C. (W. Jones).

Mosaic (virus). All plants of L. canadense at the Botanical Garden, Montreal, Que , showed typical symptoms early in the season, but flowering was not markedly affected and symptoms later disappeared 

LONICERA - Honeysuckle Leaf Blight (Gloverularia Lonigerag) was general on an extensive hedge of L. spy near Montreal; Que, Infection was vory heavy on specimens

hedge of L. sp. near Montreal, que. (International and severe in received from St. Eustache (D.B.O. Savile). Powdery Mildew (Microsphaera Alni) was general and severe in hedges at the Botanical Garden, Montreal, Que. (J.E. Jacques). i interes addresses interest in the construction of the second second second second second second second second

## LUPINUS - Lupinor to the second to the

Leaf Spot (Ascochyta Pisi var. Lupini) was general on the lower leaves of L. polyphyllus (Russell hybrids) at Pointe Claire, One, Consider-able neorosis had coourred, for most of which the fungus appeared to be

responsible. First report from Que, (D.B.O. Savile). Rust (Uromyces Lupini) cocurred on a few, plants in a garden at Chilliwack, B.C. in 1946 (W. Jones). a faithe among the balanchine ( ] augle analy in the state 

MAHONIA Rust (Cumminsiella sanguinea) was abundant on a bush of M. aquifolium at Cowichan, B.C., in May 1946 (W. Jones). Rust (Fuccinia Koeleriae) was seen on M. aquifolium at Saanichton, B.C., in July 1946; det. G.S. Cummins; first report to the Survey although previously collected in B.C. on this host (W. Newton).

## MATHIOLA - Stock

Yellows (Callistephus virus 1). Four severely affected plants of M. Incana were seen at the Station, Fredericton, N.B. (D.J. MacLeod).

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NARCISSUS

Dry Rot (Armillaria mellea) affected a few plants of King Alfred at Bradner, B.C., in May 1946 (W. Jones), Recorded from north-western United States and England, usually on repently cleared land, but not previously reported to the Survey,

Fire (Solerotinia polyblastis) was fairly general on Poetas at

Bradner, B.C., in May (R.J. Hastings), Leaf Scorch (Stagonospora Curtisii), was seen on Forerunner and and King Alfred at Abbotsford, B.C. Forerunner is very susceptible (R.J. Hastings).

## Naroissus

Mosaic (virus) occurred in a few plants of King Alfred at Gordon Head, B.C. (R.J. Hastings). Plants showing leaf distortion and striping were received from Halifax, N.S. (J.F. Hockey), STATISTICS TOTAL

OXALIS - Wood Sorrel

Rust (Puccinia Omalidis Dietel & Ellis). Uredinia of this rust were collected, 6 June, by Dr. M. L. Timonin in a commercial greenhouse at Ottawa, Ont., on O. corymbose, DC. (O. Martiana Zucc.). When the greenhouse was visited a few days later it was found that 0. corymbosa had completely overrun all sections and that nearly every plant was heavily rusted. 0. rubra bore a few pustules but appeared to be guite resistant. Mosts determined by Dr. G.H.M. Lawrence. The natural distribution of the rust is southern United States, Mexico, West Indies and South America. The greenhouse changed awmership in 1945, at which time Q. corymposa, was already well established. Presumably the rust was originally introduced with imported Oxalis plants (I.L. Conners).

PAEONIA - Peony of anthe Sector Align

PAEONIA - Peony Blight (Botrytis Paeoniae). Several infected stems were received from Invermere, B.C. (D.B.O. Savile). Blight was severe in gardens at Edmonton, Alta., and in the plots at Olds (J.D.G.). Severely infected plants with the pathogen in fruit were received from Montreal, Que. (D.B.O. Savile). Specimens were received from Sty. Rese with information that the disease was very severe (J.E. Japques). The late buds were all blighted (?B. cinerea) at Ste. Anne de la Poputiere (C. Ferrault). Blight caused slight damage at Charlottetown, P.E.I. (R.R. Hurst). Leaf Blotch (Gladesperium Paconias). Occasional spots were found

at the Botanidal Garden, Montreal, Que. (J.E. Jacques). Specimens in good

fruit were ressived from Pointe au Pio, Charlovoix Co. (D.B.O. Savile). Phytophthora Blight (P. Pasonias Cooper & Perter) was found at Morin Heights, Argenbeull Gov, Que., and the organism was isolated. The symptoms are very similar to those of Botrytis blight (J.E. Jacques). First report to the Survey, but the disease may have passed upnoticed for some time owing to its resemblance to the universally present Botrytis blight.

Loaf Spot (Septoria Paconiac) was severe on a few plants in the plots at Olds, Alta. (L. E. Lyner).

Mosaio (virus) coourned in one clump at the Botanical Garden, Montreal, Que. (J.E. Jacques)

Ring Spot (virus). Seven plants were infected in a plot at the Station, Fredericton, N.B. They are gradually degenerating (D.J. MacLood).

PELARGONIUM - Geranium . La realist

C. E. M. Grey Mould (Botrybis cinerea). Leaves received from Montreal, Que, in June showed spotting and red and yellow coloration. B. cinerea fruited on some spots but may not have been the primary cause of the trouble (D.B.O. Savile). An affected plant was brought in at Charlottetown, P.E.I., in March (R.R. Hurst).

Leaf Curl (virus). Infection was 10% in pink varieties in a greenhouse at Aldershot, Ont. Plants were seriously stunted and blossoms wore blasted (G.C. Chamberlain). It was heavy in the municipal greenhouses at Verdun, Que., on Salmon procured from a Montreal florist, but was not seen in Radio Red from the same source or in various varieties grown on the premises. Spotting was very pronounced in the specimens received (D.B.O. Savile).

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Powdery Mildew (Erysiphe Cicheracearum) was prevalent at the Botanical Garden, Montreal, Que, and in several private gardens in the district; (J.E. Jacques). It was heavy in many clumps in some gardens at Montmagny, but others were free (D.B.O. Savile).

Blight (?virue), Most varieties of P. paniculata at the Section Sec. Botanical Garden, Montreal, Que., are more or Tess affected (J.E. Jacques). It was severe on 3% of the plants in the horder at the station, Fredericton, N.B., and was common in York and Sunbury Co. (D.J. MacLeod). Vellows (Callistephus virus 1) attacked scattered plants of

Frau Anton Buchner and Mia Ruys at the Botanical Garden, Montreal, Que, (J.E. Jacques). Three per cent of the plants at the Station, Fredericton, N.B., were severely affected and yellows was general in York and Sunbury The Contraction and Annual Contraction of the Contr Co. (D.J. MacLeod). and the state of the second

PORTULACA - Purslane

Wilt (Fusarium sp.). Infection was a trace to 10% in seed crops at Grand Forks, B.C. (G.E. Woolliams). 1999 - Royal Constant State St

ROSA - Rose Crown, Call (Agrobactorium tumefaciens) severely damaged two plants of Paul's Scarlet at Charlottetown, P.E.I. (R.R. Hurst).

Leaf Spot (Diplocarpon Rosae) was again heavy and caused premature defoliation in many rose gardens in the Niagara Peninsula, Ont. (G.C. Chamberlain). Heavily infected specimens were received from Ottawa, Ontr, and Knowlton, Que. (D.B.O. Savile). Several varieties were infected at the Botanical Garden. Montreal (J.E. Jacques). A lightly infected specimen was brought in at Charlottetown, P.E.I. (R.R. Hunst).

Stem Canker (Leptosphaeria Coniothyrium) a Specimens received from a greenhouse at Brampton, Ont., in February had stems completely girdled near the base (R.G. Atkinson). Dying back from pruning stubs was common on several variaties of hybrid teas and hybrid polyanthas at St. Catharines in April (G.C. Chamberlain).

Leaf Spot (Mycosphaerella (Cereospora) rosicala). A light infection occurred at Kontville, N.S. (D. Creedman). Rust (Phragmidium spp.). P. americanum caused some early

defoliation of a bush of Paul Neyron hybrid polyantha at St. Catharines, Ont. (G.C. Chamberlain). A light infection by P. speciosum was seen at Kentville, N.S. (D. Creelman).

Powdery Mildew (Sphaerotheca pannosa). A trace occurred on a few varieties at the Botanical Garden, Montreal, Que. (J.E. Jacques). A moderate infection occurred on a rembler at Kentville, N.S. (D. Creelman). A trace was seen at Charlottetown, P.E.I. (R.R. Hurst). 1. 11 11

Mossio (virus). A single infected plant was seen at Kentville, and the second state of the second state of the N.S. (D. Creelman).

A PARTY CARDING

SYRINGA - Lilao

Powdery Mildew (Microsphaera Alni). Traces were seen on several trees at the Botanical Garden, Montreal, Que." (J.E. Jacques) and at trees at the Botanical Garden, mount of the Charlottetown, P.E.I. (R.R. Hurst). The state of the free from the second

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Syringa

Blight (Pseudomonas syringae). Specimens were received from Sheridan, Ont., with blighted tips and with small to moderately large cankers on the current and previous years" growthun Danage mas severe and several hundred plants were said to be affected (D.B.O. Savile). Several bushes were badly blighted in a garden at Montreal, Que. (J.E. Jacques). It caused moderate damage at Ste. Anne de la Porentiere, where it had not been seen since 1936; apparently the weather favoured its development (A. Payette).

Graft Blight (lilao-privet incompatibility). Three bushes at the Station, Fredericton, N.B., developed severe chlorosis, then wilted and died; the privet stocks remained alive. This trouble has become common wherever privet stock is used in the province. The bush usually dies when 7-10 years old (D.J. MacLeod).

TAGETES - Marigold

Yellows (Callistephus virus 1) affected 17% of T. erecta at the Station, Fredericton, N.B. (D.J. MacLeod).

TULIPA - Tulip

Fire (Botrytis Tulipae). Specimens were received from Shallow Lake, Ont., and Malartic, Que., with reports of heavy damage (D.B.O. Savile). Several varieties were seriously affected at the Botanical Garden, Montreal (J.E. Jacques). Traces were seen in a garden at Charlottetown, P.E.I. (R.R. Hurst).

Shanking (?Phytophthora sp.). A specimen from Baie Comeau, Que., showed typical symptoms and contained coenceytic mycelium, but was too severely overgrown by saprophytes to permit isolation (D.B.O. Savile).

Root Rot (Pythium ultimum) caused considerable stunting and delayed flowering of forced plants in a greenhouse at Langley, B.C. The fungus was isolated and proved pathogenic to potato (W. Jones).

Stem Rot (Sclerotinia sclerotiorum) caused slight damage to William Pitt in a greenhouse at Brentwood, B.C. (R.J. Hastings, J.W. Groves).

Gummosis (physiological). Specimens were received from London, Ont., with the statement that 90% of the bulbs in 2 6-quart baskets of mixed varieties were affected. The bulbs were cured and stored in a cellar. This condition is generally regarded as due to insufficient ventilation in storage, affected bulbs usually grow normally (D.B.O. Savile).

Topple (physiological) affected a few plants growing outdoors at Vancouver, B.C. (W. Jones).

## VIOLA

Blossom Blight (Botrytis sp.) was common and caused considerable damage to seed crops of V. tricolor var. hortensis at Oyster River, B.C. (W. Jones).

Leaf Spot (Cercospora Violae) was heavy, as a result of wet weather up to mid July, in a bed of mixed pansies, V. tricolor var. hortensis, at Ottawa, Ont. Many plants were nearly killed in early August when red mite and a sudden drought caused added injury (D.B.O. Savile).

Stem Rot (Myrothecium roridum Tode) killed 10% of Swiss Giant pansies in a seed crop at Elk Lake, B.C. The pathogen was isolated (W. Jonas). First report to the Survey. N.C. Preston (Tr. Brit. Mycol. Soc. 26:158-168. 1943) was able to infect Vicla with isolates from Dolichos and Hibiscus; the fungus attacks several unrelated genera as well as occurring on various nonliving substrates.

Viola

如此"你你们的",这个<u>就是</u>你们就要回答了。" i de tres el concurateros pri-Lear Spot (Ramularia lactea) caused slight damage to pansies Carl Steel at Cobble Hill, Courtenay and Oyster River, B.C. (W. Jones).

ามันกรรมขึ้นใน แต่ไข้ไปประชังนี้ เป็นเหตุสมให้ได้ได้เหตุสมใหญ่ได้ ก็การประมาณ มีเหตุมาร์ เกิดการได้ เป็นกรรมขึ้นใน แต่ไข้ไปประชังนี้ เป็นเหตุสมใหญ่ได้ ก็การประมาณ มีมีเหตุ การประการประการ เป็นกระมาที่หลัง เป็นไปการประมาณ เป็นกระสมใหญ่ได้ ก็การประมาณ มีเป็นไปการประมาณ เป็นไปการประการประการประการประ ZINNIA Yellows (Callistophus wirus 1) affected 4 plants of Z. elegans in a garden in Sunbury Co., N.B. (D. J. MacLood).

ರಿಯಾಗಿದ್ದರು. ಬರಿಸಿದ ಮಾರ್ಯವರ್ಷ ಮುಂದು ಮಾಡಿದಿಂದ ಮಾಡಿದ್ದಾರೆ. ಇದರು ಸಂಭಾನ ಸಂಭಾನ ಸಿದ್ದಾರಿಯು ಸಂಭಾನಿಯ ಸಂಭಾನ ಸಂಭಾನ ಸಂಭಾನ ಸಂಭಾಗಿದ್ದಲ್ಲಿ ಸಂಭಾನವಾಗಿದ್ದು, ಸಿಕ್ಷಿಕ್ರಿಯು ಕಾರ್ಯವರ್ಷ ಕ್ರಿಯಾಗಿದ್ದಾರೆ. ಸಿರಿಯಾ ಸೇರಿಸಿ ಸಿಕ್ರಿಯಿಂದ ಸಿಗಾರ್ಯವರ್ ಸಿಕ್ರಿಯ ಸಂಭಾಗಿದ್ದ ಕ್ರಿಯಾ ಸಾರ್ಯವರ್ಷ ಮತ್ತು ಸಿಕ್ಷಿಕ್ರಿಯ ಸಂಭಾನ ಸ್ಥಾನ ಸಂಭಾನವಾಗಿ ಮಾಡಿದಾಗಿಂದ ವಿಶ್ವಾಯಿಸಿದ್ದಾರೆ. ಸಿಕ್ರಿಯಾ ಸಂಭಾನ ಸಂಸ್ಥಾನ ಕ್ರಿಯಾ ಸಾರ್ಯವರ್ಷ ಸ್ಥಾನ ಸ್ಥಾನ ಸ್ಥಾನ ಸ್ಥಾನ ಸಂಭಾನ ಸ್ಥಾನ ಸೇರಿಸಿದ ಹಾಗಾದವೇ ಸಿಕ್ರಿಯಾ ಸಿಕ್ರಿಯಾ ಸಿಕ್ರಿಯಾ ಸಿಕ್ರಿಯ ಸರ್ಯಾಂಗ್ರೆ ಸಿಕ್ರಿಯಾ ಸಾರ್ಯವರ್ಷ ಸ್ಥಾನ ಸ್ಥಾನ ಸ್ಥಾನ ಸ್ಥಾನವೇ ಸ್ಥಾನ ಸ್ಥಾನವೇ ಸಾಧ್ಯಾನಿಗಳು ಸಾಧ್ಯಾನ ಸಿಕ್ರಿಯಾ ಸಾಧ್ಯಾನ ಸಿಕ್ರ ಸಾರ್ಯಾಂಗ್ರೆ ಸಿಕ್ರಿಯಾ ಸ್ಥಾನ ಸ್ಥಾನ ಸ್ಥಾನ ಸ್ಥಾನ ಸ್ಥಾನ ಸ್ಥಾನವೇ ಸ್ಥಾನ ಸ್ಥಾನವೇ ಸಾಧ್ಯಾನಿ ಸಿಕ್ರಿಯಾ ಸಾಧ್ಯಾನ ಸ್ಥೇನ ಸಿಕ್ರೆಯ which the state of the state of

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