

ially severe at Thetford Mines and Black Lake in Megantic Co., Que. (D. L.).

TILIA - Basswood

LEAFSPOT (*Cercosporamicrosora*). Moderate infections were seen on T. americana at Orsainville, Que. (D. W. C.).

ULMUS - Elm

DUTCHELM DISEASE (*Ceratocystis ulmi*). For the first time in several years no significant range extensions occurred in Ont. Infections ranged from 3% in the Kemptville area to 60% in the Lake Huron district. At Port Stanley 22/29 trees of English elm, U. procera were infected (B. W. D.). In N. B. the disease was found, for the first time, at Moncton

and Sussex, bringing its eastward extension to within 10 miles of the N.S. border. Within its known range, especially in the St. John River watershed, suspect and dead trees are becoming increasingly common (C. A. V. S.).

TAR SPOT (*Gnomonia ulmea*). All 50 trees of U. parvifolia in a nursery at Campbell's Bay, Ont. bore slight infections (A. E. S.).

CORAL CANKER (*Nectria cinnabarina*) was reported from Que. on G. pumila at St. Jean (R. C.), Mont Joli (D. L.), Québec City, L'Assomption and St. Pierre (G. B. O.).

CHEMICAL INJURY. Herbicide drift caused a severe marginal leaf scorch on elms at Kinistino, Sask. (R. M.).

DISEASES OF HERBACEOUS ORNAMENTALS

ALTHAEA - Hollyhock

RUST (*Puccinia malvacearum*) occurred throughout the Okanagan Valley, B. C. but infection was much lighter than usual probably because of the warm, dry summer (G. E. W.). It was seen in several plantings at Sackville, N. B. (S. R. C.).

AQUILEGIA - Columbine

POWDERY MILDEW (*Erysiphe polygoni*) was general in the Okanagan Valley, B. C. Infection did not appear until late in the season (G. E. W.).

IRON DEFICIENCY CHLOROSIS was observed on columbine as well as on Iceland poppy, Papaver nudicaule at Baleac, Alta. (A. W. H., D. S.).

BEGONIA

POWDERY MILDEW (*Erysiphe cichoracearum*) caused moderate damage to tuberous begonias at Saskatoon, Sask. It has become a recurring problem in the area (R. J. L.).

CALLISTEPHUS - China Aster

ASTER YELLOWS (aster yellows virus) occurred on C. chinensis at Alexandria, Pemberton and Vancouver, B. C. (H. N. W. T.).

WILT (*Fusarium oxysporium* f. callistephi) was seen at Calmar, Alta. (A. W. H., D. S.) and nr. North Battleford, Sask. (R. M.).

CHRYSANTHEMUM

GRAY MOLD (*Botrytis cinerea*) caused traces of damage in a half million chrysanthemum cuttings for export at Leamington, Ont. (A. E. S.).

RUST (*Puccinia chrysanthemi*). Trace infections were seen in one bed in a greenhouse at Leamington, Ont. (A. E. S.).

LEAF ROT (*Stemphylium floridanum* Hannon & Weber) caused a rotting of the lower leaves of newly rooted plants in a greenhouse at Rosemere, Que. The cuttings originated in Florida. The isolate was determined by R. A. Shoemaker and confirmed by Weber (A. E. S.). See *Phytopathology* 53: 749. 1963 (Ed.).

COSMOS

ASTER YELLOWS (aster yellows virus) was observed on C. bipinnatus at Alexandria, Pemberton and Vancouver, B. C. (H. N. W. T.).

DAHLIA

GRAY MOLD (*Botrytis cinerea*). Affected buds were received from Levis, Que. (D. L.).

MOSAIC (virus). Eleven / 30 plants in a garden at Gagetown, N. B. were affected and were removed (S. R. C.).

DELPHINIUM - Larkspur

POWDERY MILDEW (*Erysiphe polygoni*). Infections were seen at Spirit River and Warburg, Alta. (A. W. H., D. S.).

ASTER YELLOWS (aster yellows virus). Affected specimens were observed at Turtleford, Sask. (R. M.).

DIEFFENBACHIA

BACTERIAL BLIGHT (*Xanthomonas dieffenba-*

chiae) infected all 240 plants in a shipment originating in Florida. All plants had to be destroyed after 2 months in a greenhouse at Burnaby. B. C. (A. E. S.).

DRACAENA

LEAF SPOT (Phyllosticta dracaenae Griff. & Maubl.). Heavy infections developed on part of a shipment of red dracaenas from Florida at Ottawa, Ont. The severity of the disease was aggravated by a heavy infestation of spider mites (A.E.S.). This is the first record of this disease in Canada (Ed.).

FICUS - Rubber Plant

ANTHRACNOSE (Glomerellacingulata). Affected specimens were received from Hanna, Alta. (A. W. H., D.S.).

GLADIOLUS

CORM ROT (Fusarium oxysporum f. gladioli) affected 50% of the corms of the cultivar 'Goldette' grown for export at Vankleek Hill, Ont. (A. E. S.).

LEAF SPOT (Phyllosticta ? gladioli Ell. & Ev.). A Phyllosticta, tentatively identified as P. gladioli, was found on specimens received from Sherbrooke, Que. (D. L.).

MOSAIC (virus) was observed at Flatbush, Alta. (A. W. H., D. S.).

WHITE BREAK (virus). Affected plants were received from Sherbrooke, Que. for diagnosis (D. L.).

IRIS

BLUE MOLD ROT (Penicillium sp.) caused moderate damage to half of an imported shipment of 'Wedgewood' corms at Langley, B. C. (A. E. S.).

LATHYRUS - Sweet Pea

ROOT ROT (Fusarium sp.) caused traces of damage in a planting at North Battleford, Sask. (R. J. L.).

LILIUM - Lily

BOTRYTIS BLIGHT (Botrytis elliptica) was observed at Bashaw, Alta. (A. W. H., D.S.). The disease appeared in July and persisted until harvest in the hardy lily collection at the University of Saskatchewan, Saskatoon. The cultivars were rated for amount of disease on 21 July and 3 Aug. On the basis of these inspections cultivars were classed as follows: VERY RESISTANT: 'Rose Dawn', 'Burnished Rose', 'Cardinal', 'Mahogany Mauve', 'Snowdrop' and 'Black Butterfly'. RESISTANT: 'Jasper', 'White Gold', 'White Princess', 'Bright Orange', 'Rose Queen', 'Pink Charm', 'Rosalind', 'Edith Cecelia', 'Bronze Queen', 'Lillian Cummings', 'Enchantment', 'Edna Kean', 'Earlibird', 'Wild Fire', 'Pink Champagne',

'Honey Queen', 'Rosemarie', 'Brown Ivory', 'Rosy', Lilium maxwellii and L. tenuifolium. MODERATELY SUSCEPTIBLE; 'Orchid Queen', 'Lemon Queen', 'Primrose Lady', 'Fuchsia Queen', 'Rose Cup', 'Crimson Queen', 'Red Torch', 'Dunkirk', 'Red Bird', 'Red Knight', 'Delicious', Lilium wilmottiae and L. amabile. SUSCEPTIBLE; 'Crimson Beauty', 'Indian Red', 'Rusty', 'Rosabelle', 'Sunshine' and 'Warrior', VERY SUSCEPTIBLE: 'Apricot Glow' and 'Fuchsia Lady'.

LYCHNIS - Campion

LEAF SPOT (Phyllosticta lychnidis). Infection was light on 16/40 plants in a nursery at Ottawa, Ont. (A. E. S.). It is generally believed that this is a spore stage of Septoria lychnidis Desm. (Ed.).

MYOSOTIS - Forget-me-not

POWDERY MILDEW (Oidium sp.) was observed in May at Summerland, B. C. on plants growing in a well shaded area. By July all visible foliage was affected. No cleistothecia developed (C. E. W.). See Can. Plant Dis. Surv. 39: 89. 1960 for a discussion of this fungus and its possible disposition (Ed.).

PAEONIA - Peony

BOTRYTIS BLIGHT (Botrytis paeoniae) was observed at Edmonton, Cordondale and Willingdon, Alta. (A. W. H., D. S.) and specimens were received from Murray Bay, Que. (D. L.).

ROOT-KNOT NEMATODE (Meloidogyne hapla) infested all the roots of a lot destined for export at Belle River, Ont. (A. E. S.).

PAPAVER - Poppy

ASTER YELLOWS (asteryellows virus) was seen on P. rhoeas at Alexandra, B.C. (N.S.W., H.N. W. T.).

PASSIFLORA - Passionflower

LEAF SPOT (Alternaria ? passiflorae Simmons). A species of Alternaria was isolated from infected leaves of Passiflora sp. grown as a house plant in North Vancouver, B. C. The organism caused severe defoliation (H. S. P.). According to Neergard, Simmonds described the Alternaria on Passiflora as a species distinct from A. solani which it resembles (Ed.).

PELARGONIUM - Geranium

BACTERIAL LEAF SPOT (Xanthomonas pelargonii) caused a severe spotting of leaves and stems in a garden planting at Kelowna, B. C. (D. L. McI.).

RINGSPOT (? virus). A few plants were affected in a lot of 16,000 plants grown for export at Leamington, Ont. (A.E.S.).

YELLOW NET VEIN (virus) was reported on P. zonale in Ont. (W. G. K.). For an account of this disease and illustrations of symptoms, see Kemp., W.G. Can. Plant Dis. Surv. 46: 81-82. 1966 (Ed.).

OEDEMA (excess moisture). Affected specimens were received from Ste. Foy, Que. (D. L.).

PETUNIA

ASTER YELLOWS (aster yellows virus) caused some damage to petunias at Medicine Hat, Alta. (P. E. B.).

PHLOX

POWDERY MILDEW (Erysiphe cichoracearum) was seen at Edmonton, Alta. and St. Jean d'Irlande, Megantic Co., Que. (D. L.).

TAGETES - Marigold

ROOT ROT (Fusarium sp.) killed 25% of the

plants of T. erecta in a planting at Halifax, N.S. Isolations yielded a species of Fusarium in all cases (C. O. G.).

TULIPA - Tulip

FIRE (Botrytis tulipae). Some infections were seen in Edmonton, Alta. (A. W. H., D. S.).

VIOLA - Pansy

POWDERY MILDEW (Sphaerotheca ? macularis). Affected specimens were received from Berwyn, Alta. (A. W. H., D. S.) and Rouleau, nr. Saskatoon, Sask. (R. M.). Both this species and S. fuliginea are known to occur on this host in Canada but the former is the one most frequently encountered (Ed.).

ZINNIA

ASTER YELLOWS (aster yellows virus) was observed at Alexandria and Vancouver, B.C. (N. S. W.).