JAM 5

ACER - Maple (1977) The design of the control of the control of the property of the control of t Leaf Spot (Phieospora loseis) was very heavy on 4 speedym 30 miles north-east of St. Leonard, N.B., on 30 Aug.; most of the leaves were tattered and dying; the microconidial stage was abundant (D.B.O. Savile).

rubrum in two localities now Danford Lake Que, following Taphrina Dearnessii (q.v.) on July the Taphrina predominated, but by 11 July the Ramularia was the only conspicuous fungus to be found and injury had greatly impressed. The season had been very wet up to this time and it is believed that R. lethalis, which was described from London, Ont., may be an important pathogen under such conditions; but it its not known whether it can become established in the absence of Taphring. The lesions are large, irregular, often confluent, blackish brown, with the fungus fruiting below as a white, delicate mould; spores 6-10 x 1:3-2:5 migrous, continuous in branching obcins (D.B.O. Savile)

Far Spot (Rhytism) ager inum) covered 75% of the leaf surface of trees of A saccharum about 15 years old on a hill ot Stor Anna de de Pocationes Que. (A. Rayette). These hills are often above the base of low cloud sheets for considerable periods, which might increase the amount of showers an erea in Metru Can infection or and the

Soi. 39:222-230. 1939) was heavy on A. rubrum in two localities neen Danford Lake, Que. In this specimen asci were 12,5-28 x 7-12 mierons. with stalk cells 3.5-8 x 8-15 miorons. Jenkins gives 17-29 x 8-13 miorons for the asci and 6-12 x 10-16 miorons for the stalk cells specimens from Portland. Ont. (P.D.S. 17-69-70. 1938) also on A. rubrym yield esci. 21-34(39) x 10.5-14 microns with stalk cells 9-13 x 15-21 microns, and a collegation on the same host from Davidson, Que, yields asci 25-32 x 10.5-13 miorons with stalk cells 9-15 x 12-15 miorons. We believe all these specimens to be the same fungus, on the basis of host, symptons and morphology, despite the length of the specimens to be some doubt whether I are filed as I. Dearnessii, but there seems to be some doubt whether I. Dearnessii is actually distinct from all of the species described on Aper. In both these outbreaks Romularia lethalds (q.v.) followed the Taphrina lanous write in our

ACSCULUS TO THE ENGINEER OF THE TOTAL TORREST TO A CONTROL OF THE STATE OF THE ACTION OF THE PROPERTY OF THE P Leaf plight (Gilghardia Acsoult) was moderate to severe on all trees of As. Hippocastonia at the Station Kentville, W.S., late in the summer (D. Creelman). It was a wrose to heavy in Queens Go., P.E. J. (R.R. Hurst).

P.E.T. (R.R. Hurst des only server for successful al volume of the state of the contract of the state of the contract of the successful of the state of the contract of the server for successful of the server for the the server

serious and it is instally responsible for the good condition of many Powdery Mildew (Microsphaera Ainff) wis heavy on he orispa yar. mollis near Perce, Que., on 28 Aug. (D.B.O. Savile).

orispa vari mollis near ferce, Que on 28 kdel reasalments very close to Cercospora, the spores being 2-celled with the lower well-appreciably broader than the upper. This fungus has been described as der of spore Alni Chupp & Greene (H.C. Greene, Farlowia 1:550, 1944), following its discovery on A. crispa in Wis. The name Cercospora bacilligera had already been applied to a fungue on Rhamnus (D. B.O. Savile). any sold the deposition of the second of the

AMELANCHIER STORES OF PORT OFFICE A

Leaf Spot (Entomosporium maculatum). A specimen on A. alnifolia was received from Aspen Beach, Alta. (A.W. Henry).

Rust (Gymnosporangium spp.): G. juvenescens was reported to have caused severe damage in a planting of A. alnifolia at Drumheller.

Alta. (L.E. Tyner). G. sp. was heavy on leaves of A. alnifolia received from Oyen (H. N. Rackoot)

Seedling Blight (Pythium spp.). Many seedlings were killed in nursery beds at the Station. Beaverlodge, Alta. Pythium spp. and other fungi were isolated (J.D.G.), to the contract the second was not not with the control of the first the

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BETULA - Biroh

Die-Back (cause unknown) was severe in many parts of the Gaspe Peninsula, Que, and in northwestern N.B. Adjacent cutting, burning or construction work may often have been a factor, but serious killing had also occurred in some areas where no change in the environment was apparent (D. B.O. Savile). In order to study this disease in its early stages, an area in Pictou Co., N.S., was selected in 1947 in which dieback is of fairly recent origin. It has been established that die-back of twigs and even some branches, in the top of the grown can occur in the complete absence of the bronze birgh borer. Trees thus affected are soon attacked by the borer and killed. The cause of the initial dis-back is still not known. Excepation of the root system of large trees has shown practically no killing except of the ultimate rootlets; and only a slightly higher proportion of rootlets was dead in diseased than in apparently healthy trees; but no conclusions can be drawn from these studies until more is known of the condition of the roots of normal, vigorous trees. Many fungi have been isolated from affected twigs, but their pathogenicity has yet to be tested. The possibility that reduced predipitation over the whole affected area is a contributing factor has received some support from increment and meteorological data. These studies are being made in co-operation with the N.S. Dept. of lands and Forests (A.J. Skolko). Few trees in P.E.I. de not show symptoms of dieback (R.R. Hurst). L.S. Hawboldt (Jour. For. 45: 414-422: 1947) suggests that irregular precipitation, exposure during logging of other trees, injury during logging, defoliating insects, and injury by sapsuckers, rabbits and porcupines have all weakened spands and laid them open to attack by various weakly parasitic fungl and the bronza birch borer.

CARAGANA **

Leaf Spot (Septoria Caraganae) is present each year at Regina, Saske, and is often conspicuous and severe. The cumulative effect is serious and it is largely responsible for the poor condition of many hedges ... Crown rot (? Fusarium sp.) may also be a factor (T.C. Vanterpool). All the second of the second of the second

CHAMAECY PARIS

Canker (Restalotia funered associated) was present in 1946 on C. Lawsonians ver a erects in a nursery at Vancouver, B.C. 1 Adjacent C. L. Allumit was unaffected (W. Jones).

CORNUS - Dogwood

Lear Blight (Mentila Corni) was light but general on C. Nuttallii in 1946 at North Samioh, B.C. (Wir Jones). · Transporting Advisor and Figure diesest on

CRATAEGUS - Hawthorn

Scald (Entomosporium Thuemenii) caused severe defoliation in a hedge of C. Oxyacantha at Agussis, B.C. (W. Jones). Rust (Cymnosporangium clavariasforms) was a trace at Charlotte-

town, P.E.I. (G.W. Ayers).

(Roal-Took of the state of th

Rust (Puccinia sparganioides) was heavy on F. americana at L'Islet, Que., severely distorting leaves, fruits and young twigs. Spartina pentinata was also heavily nusted (A. Payatta). The first of the second of the

Judians 13 . 3 a former and Calchief election) which Leaf Spot (Marssonina Juglandis). Infected leaves of J. nigra were received from Smiths Falls, Ont. (Ruth Magrae).

JUNIPERUS

Rust (Gymnosporangium Juniperi-virginianae). Specimens of J.

virginiana were received from Welland Co., Ont. The affected tree was close to a shrub of Malus Sargentd and 300 yds from apple trees (G.C. Chamberlain).

MALUS

Scab (Venturia inaequalis). Specimens of the ornamental crab, M. Scheideckeri, from Toronto, Ont., showed twig stunting and leaf scorching, the leaves were completely overrun by scab, M. loensis was reported to be less severely affected (G.C. Chamberlain).

OSTRYA - Hop-Hornbeam

Leaf Spot (Cylindrosporium Dearnessii) was heavy on and caused moderate damage to O. Wiginiana ab Danford Lake, Que, (D.B.O. Savile).

Rust (Melampsora medusae) was heavy and general on P. balsamifera in Sept. at Dumrobin (H.W. Rasicot) and Westboro, Ont. (D.B.O. Savile). Yellow Leaf Blister (Taphrine aurea) was common on P. trichocarpa mat Duncan, B.C. (W. Jones) Luker vir serve odd der steferre en a ser odd in term

QUERCUS - Oak
Anchraonose (Glosospordum nervisequum). Specimens of Q. alba were received from Niagara-on-the-Lake, Ont. (I.L. Conners). It was severe on a number of trees of Q macrocarpa near Ottawa, Ont. (D.B.O. Leaf Blister (Taphrina coerulescens) was heavy and caused Savile).

moderate damage on Q. boreshie at Hanford Lake, Que. (D.B.O. Savile).

It was heavy on a branch of Q. boreshie at Kentville, N.S., first record from N.S. (J.F. Hookey).

RHAMNUS - Buckthorn
Rust (Puccinia coronata). Aecia on R. cathartica, past prime,
were collected at Macdonald College, Que., on Is June (W.C. Broadfoot).

4 1 J

Infection was heavy on a hedge and scattered shrubs of R. Frangula at Fredericton, N.B. (J.L. Howatt). Infection of R. Cathartica was light at Charlottetown, P.E.I. (G.W. Ayers).

SALIX - Willow los a sorra tartisa (Illinor april allaga en el pr

Scab (Fusicladium salde perdum) baused about 50% defoliation of French willow in Kings Co., N.S. | Spraying is holding the disease in check at Grand Pre Park (K.A. Harrison).

Anthracnose (Gloeosporium Salicis) was heavy on an isolated tree

of Salix sp. at Ottawa, Onto (D.B.O. Savile).

Rust (Melampsora spp.) M. Abieti-capraeanum was general but not severe on S. Bebbiana at kedgwick, N.B. M. Bigelowii was heavy and hastened defoliation of several trees of S. alba var. vitellina at Britannia, near Ottawa, Ont. (D.B.O. Savile).

Powdery Mildew (Uncinula Salicis) was general on S. sp. about North Saanich, B.C. (W. Jones).

Die-Back (Valsa ambiens). A large tree of Wisconsin willow at Strathroy, Ont., bore many affected branches and showed considerable dieback of the ourrent season's growth (G.C. Chamberlain).

SORBUS - Mountain Ash

nastani od prežio sed providencij se novim polajnos maki se dramo. Prezistani Fire Blight (Erwinia amylovora). The branch tips of 3 trees of S. aucuparia in a garden at Montreal, Que., were severely blighted (J.E. Jacques).

ULMUS - Elm

Dutch Elm Disease (Ceratostomella Ulmi). Work was continued during 1947 on a co-operative basis by the Dominion Department of Agriculture, the Quebec Department of Lands and Forests, and the Ontario Department of Agriculture. The eastern section of Ontario was scouted intensively but no positive cases of diseased trees were found. In Quebec there was an extension of the infected area weatward north of the Ottawa River, five infected trees being found in Argentouil County. The nearest of these was about three miles from the Ontario border, across the Ottawa River. In the eastern and south-eastern part of the infected area, in Lotbiniere, Richmond, and Megantic Co., there was considerable intensification of the disease. In 1946 there were 2114 infected trees located in Quebec and in 1947 the number of such trees was 840. These figures, however, are not comparable and the greatly reduced number of diseased trees found in 1947 does not indicate a corresponding reduction in the incidence of the disease.

The removal of diseased trees as a means of control was continued, except in the very heavily infected area in the vicinity of Sorel, and spraying experiments to prevent beetles emerging from diseased trees and also to prevent thom from entering healthy trees were initiated " now there became before) to (A.W. McCallum).

Coral Spot (Tubercularia ulmea Cartier). This organism, which has previously been referred to Mestria cimpabaring, has recently been described by J.C. Carter (Phytopath. 37:243-246, 1947) as Tuberquiaria ulmea. Coral spot was again very prevalent among hedges of U. pumila at the Botanical Garden, Montreal, Que. (J.E. Jacques). A young tree of U. americana was girdled near the ground by Nectria sp. at Charlottetown, P.E.I. (R.R. Hurst).