

B. Oil-seed Crops

FLAX

ALTERNARIA BLIGHT (*Alternaria linicola*). A tr. was found in 1 field at Tisdale, Sask. in Sept. (G.A.P., T.C.V.).

ROOT ROT (*Rhizoctonia* sp.) was rated tr.-sl. in 5 fields in Alta. (J.S.H., T.G.A.) and wire-stem symptoms were found in a field at Tisdale, Sask. in July (G.A.P., T.C.V.).

MUSTARD

WHITE RUST (*Albugo cruciferarum*) was reported from Vulcan, Alta. (A.W.H.). The conidial stage was found at Saskatoon in June on *Descurainia* sp. and *Capsella bursa-pastoris*, and both conidia and oospores were observed in Aug. on *Sisymbrium altissimum*. The oospore stage was also found in pod lesions on *Brassica kaber* var. *pinnatifida* near Melfort, Sask., in Sept. (G.A.P., T.C.V.).

LEAF AND POD SPOT (*Alternaria brassicae*). Traces were found in 2 fields examined in c. Alta. (W.B.B.).

RAPE

WHITE RUST (*Albugo cruciferarum*). In c. Alta. a tr. infection was reported in 1/9 fields of *Brassica napus* (B.B.). Of 28 fields examined in Sask. in Aug.-Sept., white rust was found in 20 (15-tr. 4-sl. 1-mod.) (G.A.P., T.C.V.).

STAGHORN (*Albugo cruciferarum*, *Feronospora parasitica*) was reported from 4/6 fields in c. Alta., and from several other areas as far n. as Peace River, but infections were rated tr. (W.B.B., A.W.H.). Damage was less than usual, possibly because of the unusually dry season (W.B.B.).

GRAY LEAF SPOT (*Alternaria brassicae*). Trace infections were found in 2/5 fields in c. Alta. In 12/28 fields examined in Sask., alternaria black spot was rated 7-tr. 4-sl. 1-mod. (G.A.P., T.C.V.).

POWDERY MILDEW (*Erysiphe* oni) caused sl. damage at Saskatoon, (G.A.P., T.C.V.).

BASAL STEM ROT (*Fusarium* spp.). Damage was rated tr. at Saskatoon, Sask. (G.A.P., T.C.V.).

BASAL STEM ROT (*Gliocladium roseum*). A tr. of damage by this disease was reported for the first time in Sask. at Saskatoon (T.C.V.).

BLACKLEG (*Leptosphaeria maculans* (Desm) Ces. and DeNot; stat imperf. *Plenodomus lingam* (Tode ex Fr) Hohn.). The perfect state of the blackleg fungus was observed for the first time in Canada in May and June, 1967, when ascocarps were collected on the cruciferous weed *Thlaspi arvense* L. at 2 locations near Saskatoon, Sask. On rape (*Brassica napus*) blackleg was more prevalent than in 1966; 83% of the fields examined in e.c. Sask. were affected, with an av. severity rating of tr.+ . In the Saskatoon area tr. infections were found in 4/28 fields (G.A.P., T.C.V.). The first collection of the *Plenodomus* state on *Brassica kaber* var. *pinnatifida* in Sask. was made at Melfort and Naicam areas (G.A.P., T.C.V.).

RINGSPOT (*Mycosphaerella brassicicola*) was much less severe than in previous years in Sask., although tr.-sl. amounts were found in 20/28 fields examined. *M. brassicicola* was reported for the first time as an epiparasite on rape stem enlargements caused by *Albugo cruciferarum* at Brooksby and Delmas, Sask. (G.A.P., T.C.V.). The first collection on *B. kaber* var. *pinnatifida* in Sask. was made at Brooksby (G.A.P., T.C.V.).

SCLEROTINIA STEM ROT (*Sclerotinia sclerotiorum*). A trace of stem rot was observed at Brooksby, Sask. Of 28 fields examined in Sask., 7 showed tr.-sl. infection and 2-mod. (G.A.P., T.C.V.).

ASTER YELLOWS (aster yellows ? virus). In Sask. 4% of all fields examined showed only a tr. of infection; less sev. than in 1966 (G.A.P., T.C.V.).

CHEMICAL INJURY due to 2-4-D was observed at Rosthern, Sask. Damage was sl.-mod. with basal enlargement of the affected plants (G.A.P., T.C.V.).

SUNFLOWER

STEM ROT (*Sclerotinia sclerotiorum*) of sunflower (*Helianthus annuus*) was observed at Edmonton, Alta. (A.W.H.). A test plot for seed production at Woodstock N.B. was 100% damage (S.R.C.).