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Status of Insects in the Kapuskasing
District

Foreman, Fred F.

Information Report O-X-71
(Forest Research Laboratory, Ontario Region)

1967

Information Report No.	Subject	Author
O-X-57	Forest Insect & Disease Surveys --Lindsay District	M. J. Thomson
O-X-58	--Tweed District	F. Livesey
O-X-59	--Kemptonville District	M. J. Applejohn
O-X-60	--Lake Simcoe District	R. L. Bowser
O-X-61	--Lake Erie District	G. T. Atkinson
O-X-62	--Lake Huron District	V. Jansons
O-X-63	--North Bay District	L. S. MacLeod
O-X-64	--Parry Sound District	C. A. Barnes
O-X-65	--Pembroke District	R. A. Trieselmann
O-X-66	--Sault Ste. Marie District	H. J. Weir
O-X-67	--Sudbury District	G. W. Cameron
O-X-68	--Chapleau District	D. Ropke
O-X-69	--Gogama District	W. Ingram
O-X-70	--Cochrane District	H. R. Foster
O-X-71	--Kapusking District	F. F. Foreman
O-X-72	--Swastika District	H. R. Foster L. S. MacLeod W. Ingram
O-X-73	--Port Arthur District	K. C. Hall
O-X-74	--Geraldton District	K. C. Hall D. C. Constable
O-X-75	--White River District	D. C. Constable
O-X-76	--Sioux Lookout District	P. E. Buchan
O-X-77	--Kenora District	P. E. Buchan J. Hook
O-X-78	--Fort Francis District	J. Hook

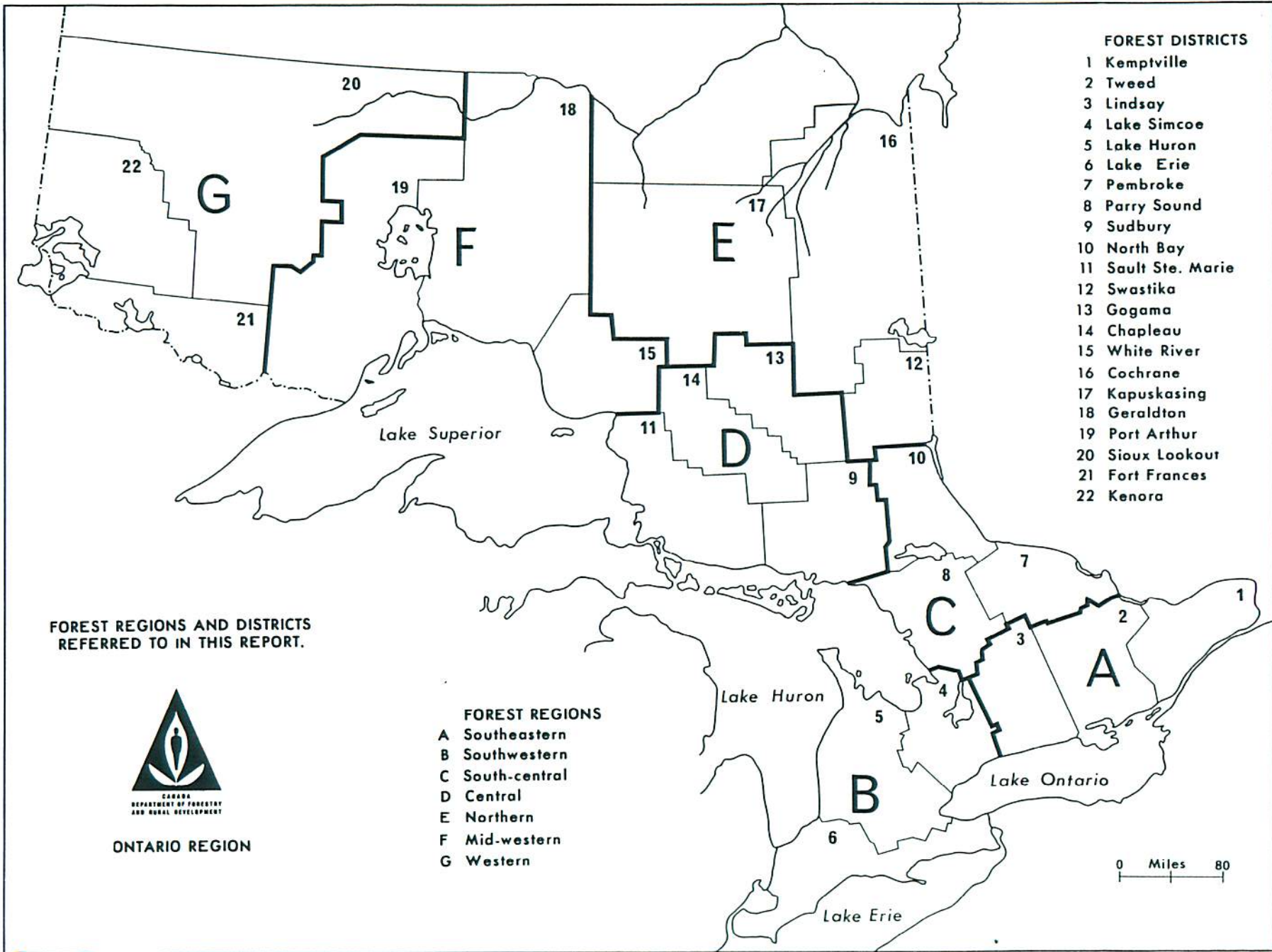
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Photographs

Regional Supervisors *



FOREST DISTRICTS

- 1 Kemptville
- 2 Tweed
- 3 Lindsay
- 4 Lake Simcoe
- 5 Lake Huron
- 6 Lake Erie
- 7 Pembroke
- 8 Parry Sound
- 9 Sudbury
- 10 North Bay
- 11 Sault Ste. Marie
- 12 Swastika
- 13 Gogama
- 14 Chapleau
- 15 White River
- 16 Cochrane
- 17 Kapuskasing
- 18 Geraldton
- 19 Port Arthur
- 20 Sioux Lookout
- 21 Fort Frances
- 22 Kenora

**FOREST REGIONS AND DISTRICTS
REFERRED TO IN THIS REPORT.**



ONTARIO REGION

FOREST REGIONS

- A Southeastern
- B Southwestern
- C South-central
- D Central
- E Northern
- F Mid-western
- G Western

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FOREWORD

Population levels of the spruce budworm increased sharply in widely-separated parts of Ontario in 1967. Heavy infestations occurred in the Burchell Lake area in Port Arthur District and in woodlots in parts of Pembroke, Tweed and Kemptville districts. A light infestation persisted east of Chapleau in the Central Forest Region. The Burchell Lake infestation is of particular concern because of the nature of the forest in that area. Stands currently infested, as well as those to the north as far as Lac Des Mille Lacs, contain considerable mature balsam fir and white spruce which are highly susceptible to attack by the spruce budworm.

For the second consecutive year, weather conditions during May had a pronounced effect on infestations of the forest tent caterpillar. Mortality of eggs and newly-emerged larvae greatly reduced population levels of this pest. The only major areas of infestation remaining in the Province were in the eastern part of Fort Frances District and the southern part of Sault Ste. Marie District.

Two species of sawflies were of major importance in pine plantations. The European pine sawfly continued to extend its range in southeastern Ontario and two new centers of infestation were found on Manitoulin Island. The red-headed pine sawfly caused severe defoliation in red pine shelterbelts and plantations at numerous locations in the central and southern parts of the Province.

Intensive surveys were continued to determine the distribution and incidence of Dutch elm disease and Scleroderris-canker of pine. The discovery of Ceratocystis ulmi (Buism.) C. Moreau in Sault Ste. Marie constituted a marked westward extension of the range of the disease caused by this pathogen. Scleroderris-canker of pine continued to cause severe losses of young red pine and, to a lesser extent, jack pine in numerous plantations in central and northern Ontario. By comparison, damage in southern Ontario was negligible.

Diseases of spruce were caused by Cytospora kunzei Sacc. and Folyporus tomentosus Fr. at widely-separated points in southern Ontario and pockets of infection of Fomes annosus (Fr.) Cke, root-rot persisted in several red pine plantations in Lindsay, Lake Simcoe and Lake Erie districts. Details on the distribution and damage caused by these and other forest diseases and insects are contained in the regional and district sections of this report.

J. E. MacDonald

STATUS OF INSECTS IN THE KAPUSKASING DISTRICT

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Fred F. Foreman

Spruce Gall Aphid, Adelges lariciatus (Patch)

A heavy infestation of this insect was observed on white spruce saplings growing under dominant, overmature poplars, jack pine and spruce along the north shore of Nagagamisis Lake in McEwing Township.

Light infestations were observed in Owens, O'Brien and Fauquier townships.

Ugly-nest Caterpillar, Archips cerasivoranus (Fitch)

A pocket of severe infestation occurred in Wicksteed Township about one mile west of Cree Lake bridge. A moderate infestation was observed on roadside pin cherry in Township 238. Low numbers of tents were distributed along Highway 631 in Arnott Township.

These infestations represent a significant increase in population levels compared with 1966 when no infestations were recorded in the district.

Birch Skeletonizer, Bucculatrix canadensisella Cham.

Survey records indicate that no collections of this insect were made from 1956 to 1961 and that only one collection was made in 1962. However, in 1963, population levels increased and heavy infestations occurred in 1964 and 1965. This outbreak subsided in 1966 and only one larva was collected in 1967.

Spruce Budworm, Choristoneura fumiferana (Clem.)

A light infestation occurred on open growing white spruce for a distance of two miles along Highway 11 in Gill Township. Quantitative sampling in this area showed that 2 percent defoliation of the current year's growth occurred.

Low numbers of larva persisted on heavily branched white spruce about 1/2 mile south of Mattice in Eilber Township. One pupal case was collected, and two lightly-defoliated white spruce were observed near Gurney Lake in Torrance Township.

A Leaf Roller on White Birch, Gracillaria sp.

A heavy infestation occurred in mature white birch stands over approximately 400 square miles in the vicinity of the Little Long Rapids Dam on the Mattagami River. Pockets of heavy infestation were found in Sweet, Gurney, and Arnott townships. Low numbers were common elsewhere in the district.

Aspen Blotch Miner, Lithocolletis salicifoliella (Cham.)

Population levels of this insect on trembling aspen declined considerably (Table 6). On willow, pockets of moderate infestation occurred in Wicksteed, Bourinat, Owens and O'Brien townships and small numbers of mines were observed commonly in the central and western parts of the district.

TABLE 6

Summary of Aspen Blotch Miner Counts Based on the Examination of 100 Leaves Taken at Random from Three Trembling-aspen Trees at Each Location

Location (township)	Av. height of sample trees in feet	Per cent of leaves mined				Total no. of mines per 100 leaves			
		1964	1965	1966	1967	1964	1965	1966	1967
Wicksteed	9	0	3	7	2	0	3	7	3
O'Brien	12	4	6	12	1	4	8	14	1
Gurney	15	1	6	9	2	1	6	9	3
Torrance	10	3	7	8	11	3	8	8	12
Gill	12	1	2	7	0	1	3	8	0

Pitch Nodule Moth, Petrova albicapitana (Busck)

A well stocked, two acre plantation of 8-foot jack pine, at Mileage 7 of the Gurney Road was heavily infected with this insect. A maximum of 25 nodules per tree was counted and up to six nodules per branch occurred commonly. All trees examined were infested by this insect.

A Leaf-folding Sawfly on Balsam Poplar, Phyllocolpa sp.

The heavy infestation of this leaf-folding sawfly that occurred in the district from 1962 to 1966 declined sharply in 1967 (Table 7). The heaviest attacks occurred on open growing regeneration.

TABLE 7

Summary of Leaf-folding Sawfly Counts on Balsam Poplar in the Kapuskasing District in 1966 and 1967

Note: Trees sampled average 5 feet in height.

Location (township)	Total no. of leaves per tree		Total no. of folded leaves		Per cent of leaves folded	
	1966	1967	1966	1967	1966	1967
Fauquier	268	292	73	17	27.2	5.8
McCrea	234	295	77	20	32.8	6.8
McMillan	296	189	97	16	32.8	8.5
Seaton*	327	-	94	-	28.7	-

* The Township of Seaton was treated with a chemical broadleaf defoliator in July, 1967.

A Leaf-folding Sawfly on Trembling Aspen, Phyllocolpa sp.

The heavy infestations of this insect reported in 1966 subsided in 1967 as indicated in Table 8.

TABLE 8

Summary of Leaf-folding Sawfly Counts on Trembling Aspen in the Kapuskasing District in 1966 and 1967

Note: Based on the examination of 100 leaves from three trees at each location.

Location (township)	Per cent of leaves infested		Total number of folds per 100 leaves	
	1966	1967	1966	1967
Gill	12	1	16	1
Wicksteed	17	2	24	2
Gurney	9	9	9	9
O'Brien	18	0	23	0
Parnell	11	2	14	3
Torrance	7	2	7	2

Yellow-headed Spruce Sawfly, Pikonema alaskensis (Roh.)

This insect occurred commonly on white spruce across the district in 1967. Medium infestations were observed in Township 238, and in Elgie, Casgrain, and Howells townships. The greatest increase in infection intensity occurred on small, open-grown white spruce. Low numbers of larva occurred in Rodgers, Cargill, Owens, Williamson and Eilber townships. Low to moderate numbers of larva were present on all white spruce ornamentals examined.

White-pine Weevil, Pissodes strobi (Peck)

A decline in weevil damage occurred in most of the district (Table 9). However, an exceptionally heavy infestation was observed in one small woodlot in Owens Township where 50 per cent of the white and black spruce leaders were weevilled. This woodlot contained an aspen-spruce mixture with 30-foot tall spruce just breaking through the aspen canopy.

A few jack pine saplings were weevilled in Gurney and Wicksteed townships.

TABLE 7

Summary of Damage by the White-pine Weevil in the Kapuskasing District in 1966 and 1967

Location (township)	Host	Per cent of trees infested	
		1966	1967
Shearer	wS	6	6
Kohler	bS	13	2
Parnell	wS	11	4
Clavet	bS	7	2
Gurney	bS	4	4

Balsam Shoot-boring Sawfly, Pleroneura borealis Felt

This insect is normally abundant in the new shoots of balsam fir in alternate years. However, population levels remained low in 1965 and 1966. In 1967 appreciable numbers occurred at two quantitative sample points (Table 10).

TABLE 10

Summary of Damage by the Balsam Shoot-boring Sawfly in Kapuskasing District for the period 1964-67

Note: The data is based on the examination of all buds on twenty branch tips, four from each of five trees at each location.

Location (township)	Numbers of buds infested				Per cent of buds infested			
	1964	1965	1966	1967	1964	1965	1966	1967
Shackelton	6	0	0	15	4.0	0	0	3.5
Fergus	12	0	0	19	5.5	0	0	4.8

Larch Sawfly, Pristiphora erichsonii (Htg.)

Following a decline in population levels from 1960 to 1966, this sawfly increased in numbers in 1967. Colonies of larvae were common across the district. Pockets of heavy infestation occurred in stands of saplings in Wicksteed Township. Medium infestations were observed in Clavet, Beaton, Casselman and Howells townships. Elsewhere, population levels were low (map).

Amber-marked Birch Leaf Miner, Profenusa thomsoni (Konow)

Heavy infestation recurred at many points in divisions 47 and 74 as this insect continued a westerly spread in the Kapuskasing District (Table 11). Infestations declined to light and medium intensity in some areas in Division 75 where the insect has been active for several years.

TABLE 11

Summary of Damage by the Amber-marked Birch Leaf Miner in the Kapuskasing District in 1966 and 1967

Note: Based on examination of 100 white birch leaves picked at random from three trees at each location.

Location (township)	Per cent of leaves affected		Total number of mines	
	1966	1967	1966	1967
Wicksteed	53	-	193	-
Frost	-	48	-	288
Stoddart	100	100	200+	200+
Fauquier	46	65	103	122
Casselma	27	4	60	4
Seaton	19	-	23	-

Spruce Bud Midge, Rhabdophaga swainei Felt

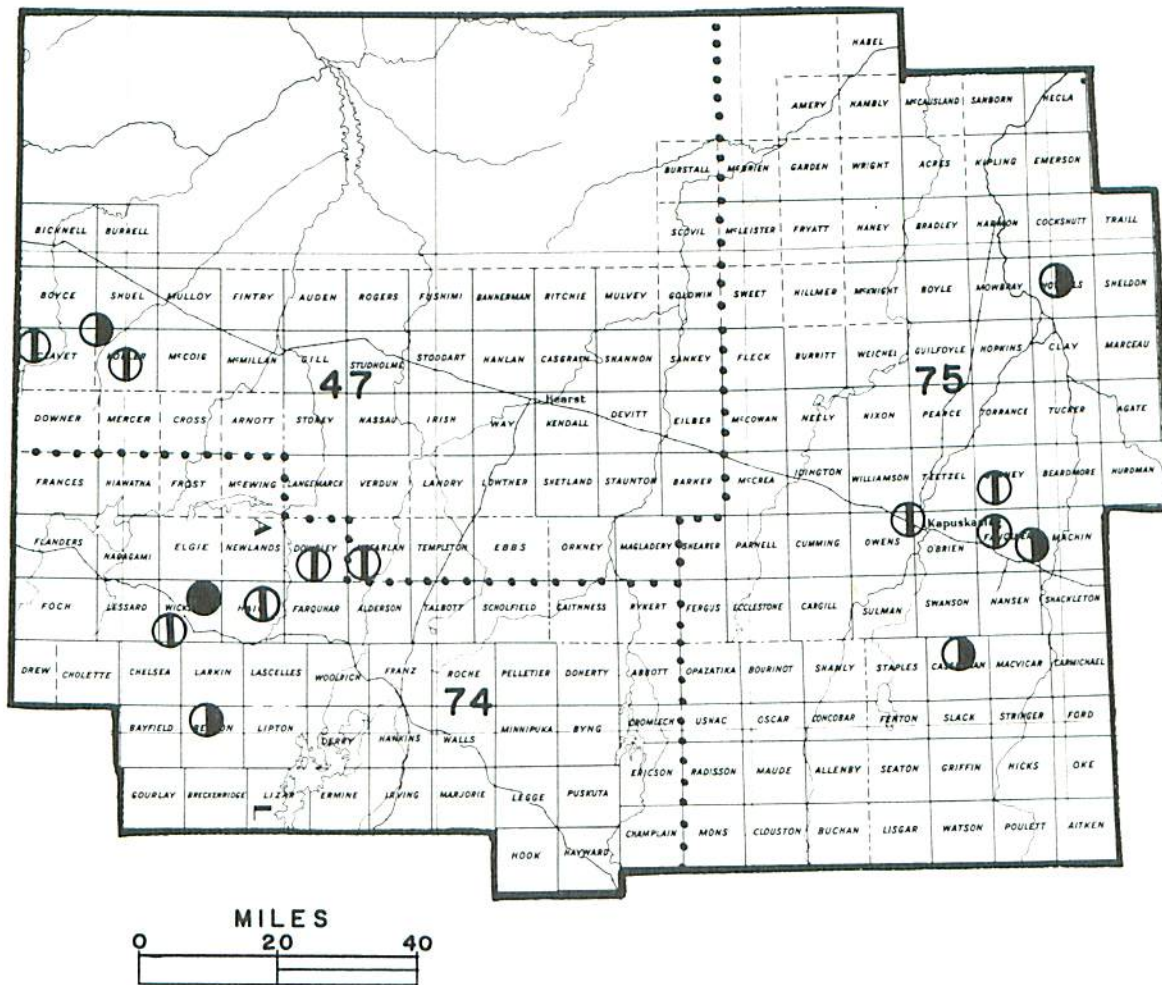
General observations and quantitative sampling showed that population levels of this midge were comparable to 1966 (Table 12). The highest number of infested buds occurred in McCrea Township where 10.6 per cent of the black spruce buds and 1.3 per cent of the white spruce buds were attacked.

TABLE 12

Summary of Damage by the Spruce Bud Midge in the Kapuskasing District in 1965, 1966, and 1967

Location (township)	Host	Per cent of buds infested		
		1965	1966	1967
McCrea	wS	0.47	3.1	1.3
McCrea	bS	-	7.9	10.6
Parnell	wS	0.0	2.5	1.3
Macvicar	wS	0.0	2.7	2.0
McEwing	wS	0.0	1.5	0.7
McMillan	wS	0.0	3.0	0.0
McMillan	bS	0.0	2.5	2.0

KAPUSKASING DISTRICT



LARCH SAWFLIES

Locations where infestations were observed in 1967

Legend

- Light infestation (circle with vertical line)
- Medium infestation (half-filled circle)
- Heavy infestation (solid black circle)

TABLE 13

Summary of Miscellaneous Insects Collected in the Kapuskasing District
in 1967

Insect	Host(s)	Remarks
<i>Acleris variana</i> (Fern.)	bF,wS	Collected in Harmon and Owens townships and Township 238
<i>Adalia bipunctata</i> Linn.	E	This predator beetle which feeds on aphids was found on ornamentals in the town of Kapuskasing
<i>Anacampsis innocuella</i> Zell.	tA	Low numbers at Government Lake, Wicksteed Township
<i>Anchylopera subaequana</i> Zell.	W	Low numbers in Owens Township
<i>Anoplonyx canadensis</i> Hgtm.	tL	Low numbers on beating samples, Owens Township
<i>Antheraea polyphemus</i> (Cram.)	wB	One larva collected in Bourinat Township
<i>Archippus strianus</i> Fern.	wS	Low numbers on beating samples in Eilber Township
<i>Campaea perlata</i> Gn.	bF	Low numbers in Eilber and Cargill townships
<i>Caripeta divisata</i> Wlk.	wS	Low numbers in Cargill and Eilber townships
<i>Cecidomyia reeksi</i> Vock.	jP	A medium infestation of two trees in the Spruce Falls Nursery, Fauquier Township; counts taken elsewhere in the district were negative
<i>Coleophora betulivora</i> Mcd.	wB	Common at eastern edge of district
<i>Coleophora laricella</i> Hbn.	tL	Low numbers in Fauquier Township; reduced from 5.3 cases per 18" branch tip in 1966 to 1.2 in 1967
<i>Dasineura balsamicola</i> (Lint)	bF,wS	Common in district, occasionally heavy on individual trees
<i>Dioryctria reniculella</i> Grt.	wS	Collected in Eilber and Harmon townships

TABLE 13 (continued)

Insect	Host(s)	Remarks
<i>Diprion hercyniae</i> (Htg.)	wS	Very low numbers at the corner of Owens, Williamson, Teetzal, and O'Brien townships
<i>Ectropis crepuscularia</i> Schiff.	wS	One collection in Eilber Township
<i>Eitelius gregarius</i> (Marl.)	W	Low numbers about Remi Lake, Fauquier Township
<i>Enargia decolor</i> Wlk.	tA	Light defoliation of a small area in Lisgar Township; one larva collected
<i>Epinotia sollicitana</i> Wlk.	wB	Two larvae collected in Studholme Township
<i>Epinotia</i> sp. near <i>heucherana</i> Heinr.	Al	Light in Bourinat and Shearer townships
<i>Eriocampa ovata</i> Linn.	Al	Low numbers in Wicksteed Township; not usually found in the Kapuskasing District
<i>Eriosoma americanum</i> (Riley)	E	Moderate damage to ornamentals in the town of Kapuskasing
<i>Eufidonia notataria</i> Wlk.	bF	Two larvae on a beating sample in Fauquier Township
<i>Eupithecia filmata</i> Pears.	bF,wS	Collected in Harmon, Fauquier, Owens, Williamson, Eilber, and Gill townships
<i>Eupithecia gelidata</i> Moesch.	wB	Low numbers in Gill and Wicksteed townships
<i>Eupithecia gibsonata</i> Tayl.	eC	Moderate numbers in Frost Township; low numbers in Township 238
<i>Eupithecia transcanadata</i> Mack.	bF,wS,eC	Collected in Harmon, Owens, Williamson, Cargill, Eilber, and Frost townships
<i>Euura salicis-pisum</i> (Walsh)	W	Low numbers of galls in Beaton Township
<i>Fenusa dohrnii</i> (Tischb.)	Al	A moderate infestation in Fauquier Township; low numbers in Gurney Township

TABLE 13 (continued)

Insect	Host(s)	Remarks
<i>Fenusa pusilla</i> (Lep.)	wB	Moderate infestation in Kapuskasing Town Park; first record in Kapuskasing District
<i>Feralia jocosa</i> Gn.	bF,wS	Single larva collected in Cargill, Eilber, and Fauquier townships
<i>Galerucella decora</i> (Say)	W	Low numbers in Torrance Township
<i>Gonioctena americana</i> (Schaeff.)	tA	A light infestation in Lessard Township
<i>Gonioctena notmani</i> (Schaeff.)	W	Low numbers in Lessard Township
<i>Gracillaria invariabilis</i> Braun.	pCh	Low numbers in Lisgar and Howells townships
<i>Gracillaria syringella</i> Fabr.	lilac	One heavy infestation in the town of Hornepayne
<i>Halisidota maculata</i> Harr.	W	Low population on roadside willow, Shearer Township
<i>Hemichroa crocea</i> (Four.)	Al	A low number of colonies observed in Fauquier Township
<i>Hylemya planipalpis</i> Stein.	wS	Low levels of damage in Township 238
<i>Hydriomena divisaria</i> Wlk.	wS	Four larvae on beating samples in Frost Township
<i>Hydriomena furcata</i> Thun.	Al	Over 50% defoliation along Nagasami River, McMillan Township
<i>Ipimorpha pleonectusa</i> Grt.	jP	Collected, Spruce Falls nursery, Fauquier Township
<i>Lithocolletis aceriella</i> Clem.	M	A low population in Parnell Township
<i>Macremphytus intermedius</i> Dyar	Do	Low numbers found in Fauquier Township
<i>Malacosoma disstria</i> Hbn.		Two male moths collected in light trap, Fauquier Township
<i>Malcosoma pluviale</i> Dyar	pCh	A low number of tents at one point in Wicksteed Township

TABLE 13 (continued)

Insect	Host(s)	Remarks
<i>Messa populifoliella</i> Town.	bPo	Collected in Slack Township and Township 238
<i>Monochamus notatus</i> Drury	wS	Three larvae from trap logs in Lisgar Township
<i>Monochamus scutellatus</i> Say	wS	Forty-six larvae from trap logs in Lisgar Township
<i>Monoctenus fulvus</i> Nort.	eC	Low numbers on beating samples, Kipling Township and Township 238
<i>Nematus limbatus</i> Cress.	W	A moderate number in Owens Township
<i>Nematus salicisodoratus</i> Dyar.	W	Low numbers in Fauquier Township
<i>Neodiprion abietis</i> complex	bF,wS	Low numbers present in Lisgar, Owens and Eilber townships
<i>Neodiprion nanulus nanulus</i> Schedl.	jP	Moderate infestation on three trees in Kipling Township
<i>Neodiprion nigroscutum</i> Midd.	jP	Two larvae of this uncommon sawfly were collected in Kip- ling Township
<i>Neodiprion maurus</i> Roh.	jP	Collected in Dowsley, Elgie and Gurney townships
<i>Neodiprion virginianus</i> complex	jP	Colonies collected in Torrance, Gurney, Studholme, Clavet, Elgie and Beaton townships
<i>Nyctobia limitaria</i> Wlk.	bF	Low numbers found in Harmon, Fauquier and Williamson townships
<i>Oligonychus ununguis</i> (Jac.)	bF	Severe foliage damage in a small area in Devitt Township
<i>Orgyia antiqua</i> L.	E	Low numbers on ornamentals, Kapusksing
<i>Pareophora minuta</i> MacG.	wAs	Low numbers in Fauquier Township

TABLE 13 (concluded)

Insect	Host(s)	Remarks
<i>Pikonema dimmockii</i> (Cress.)	wS	Low numbers in Owens, Eilber, and Gill townships and Township 238
<i>Pristiphora lena</i> Kinc.	wS	Low numbers in Hanlan and Owens townships
<i>Protoboarmia porcelaria indicataria</i> Wlk.	bF,eC,wS	Low numbers on beating samples in Fauquier, Owens, Williamson, Cargill and Frost townships
<i>Pseudexentera oregonana</i> Wlshm.	tA	Two larvae found in Eilber Township
<i>Rhyacionia adana</i> Heinr.	jP	Low numbers on shelterbelts, Spruce Falls Nursery, Fauquier Township
<i>Sciaphila duplex</i> Wlshm.	tA	Light infestation present in Eilber and Lisgar townships
<i>Semiothisa bicolorata</i> Fabr.	jP	Collected in Gill Township
<i>Semiothisa dispuncta</i> Wlk.	bF,wS	Low numbers collected in Owens, Cargill, Eilber, Frost, Fauquier, and Williamson townships
<i>Semiothisa sexmaculata</i> Pack.	tL	Collected in Owens and McMillan townships
<i>Semiothisa submarmorata</i> Wlk.	tL	Collected in McMillan Township
<i>Swammerdamia cuprescens</i> Braun	wB	Low numbers in Gill and Studholme townships
<i>Taniva albolineana</i> Kft.	wS	Light damage in Eilber Township
<i>Tetropium cinnamopterum</i> Kby.	wS	One larva from trap logs, Lisgar Township
<i>Trichiosoma triangulum</i> Kby.	A1	One larva of these large, solitary sawflies, was collected in Wicksteed Township
<i>Vasates quadripes</i> Shim.	siM	Severe infestation of ornamentals in town of Kapuskasing
<i>Xylomyges dolosa</i> Grt.	tA,bPo	Low numbers in Slack Township and in Township 238