

CAN CFS-NF N-X-146

Fisheries & Environment

Forestry Service

REVISED CHECKLIST OF INSECT SPECIMENS IN THE NEWFOUNDLAND
FOREST RESEARCH CENTRE MUSEUM, ST. JOHN'S, NEWFOUNDLAND

by K.E. Pardy

NEWFOUNDLAND FOREST RESEARCH CENTRE

ST. JOHN'S, NEWFOUNDLAND

INFORMATION REPORT N-X-146

JUNE 1977

Table of Contents

	<u>Page</u>
INTRODUCTION	i
SPECIMENS IN THE COLLECTION	1
Psocoptera	1
Dermaptera	1
Coleoptera	1
Diptera	15
Hemiptera	19
Homoptera	21
Hymenoptera	23
Lepidoptera	33
Neuroptera	50
Orthoptera	50
Trichoptera	51
REFERENCES	52

REVISED CHECKLIST OF INSECT SPECIMENS IN THE NEWFOUNDLAND

FOREST RESEARCH CENTRE MUSEUM, ST. JOHN'S, NEWFOUNDLAND

by

K.E. Pardy

INTRODUCTION

The Forest Insect and Disease Survey maintains a comprehensive insect reference collection to assist in determining the distribution and seasonal occurrence of the more common insects in the region. The collection contains primarily adult specimens but immature forms and photographs of specimens are added as they become available.

In 1968 the Newfoundland Forest Research Centre published a checklist of forest insect specimens collected in Newfoundland by the Forest Insect and Disease Survey and maintained in the Research Centre Museum at St. John's (Pardy et al. 1968). At that time the list included a total of 366 insect species. In 1974 the checklist was revised (Pardy 1974) and included a total of 907 species. However, many of the new additions had not been collected in Newfoundland, but were introduced species or ones that had been obtained from other regions in Canada or from other countries. Since 1974 many additional specimens, mostly from Newfoundland and Labrador, have been added to the collection and this list now includes a total of 1,101 species of which 699 have been collected from the Island or Labrador.

The order, families and scientific names in this list have been listed according to the "Forest Insect Numerical Code" developed by the Forest Insect and Disease Survey. The majority of the common names are on the approved list of common names for North America published by the Entomological Society of America (Anderson, 1975); these names are underlined in this checklist. The other common names have been taken from Benoit 1975, Borror and Delong 1964, and Miller and Lindquist 1971.

In the checklist the geographic origin of the species is included and if photographs of the insects or damage they cause are in the files, they are shown by symbols, i.e. (B & W) for black and white prints or (C) for 35 mm color transparencies. Where the origin of the species is not shown Newfoundland and Labrador is the source of the collection.

The adult specimens in the museum collection are usually pinned and labelled, housed in glass-topped trays and stored in metal cabinets. Some adult specimens are preserved in 70% alcohol and stored in glass vials. However, many of the immature stages are not stored in liquid preservatives but are preserved by other procedures such as freeze drying which retains the natural colors of the specimens and results in only little or no shrinkage or distortion. Such specimens are also stored in glass-topped trays in metal cabinets.

The majority of the museum specimens have been identified by specialists at the Biosystematic Research Institute, Ottawa, and the others by entomologists at the Newfoundland Forest Research Centre, St. John's.

The major purpose of the insect museum is for the use of Research Centre and visiting entomologists as an up-to-date reference collection but it is also a valuable aid for the preparation of display cases of the more common and important Newfoundland insects for use in the National Parks, Provincial Parks, schools and other interested agencies or associations. Many of these have already been prepared and distributed and two major revised ones are now in preparation for Terra Nova and Gros Morne National Parks.

SPECIMENS IN THE COLLECTION

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<u>PSOCOPTERA</u>				
<u>PSOCIDAE</u>	Psocids			
Psocus				
leidyi Aaron		1 (N.B.)		
novaescotiae Walker		1 (N.B.)		
slossonae Banks		2 (N.B.)		
<u>DERMAPTERA</u>				
<u>FORFICULIDAE</u>	Earwigs			
Forficula auricularia L.	<u>European earwig</u>	5		
<u>COLEOPTERA</u>				
<u>ALLECULIDAE</u>	Comb-clawed beetles			
Hymenorus sp.		1 (Sask.)		
<u>ANOBIIDAE</u>	Deathwatch beetles			
Ernobius				
sp.		1 (Germany)		
schedli Brown		1		
<u>BUPRESTIDAE</u>	Flatheaded or metallic woodborers			
Agrilus				
masculus Horn		2 (Sask.)		
politus Say	Willow gall limb borer	5 (Man. Sask.)		
Anthaxia viridifrons Gory	Hickory twig borer	1 (Man.)		
Brachys sp.		2 (Man. Sask.)		
Buprestis				
nuttalli Kby.		3 (Man.)		
aurulenta Linn.	<u>Golden buprestid</u>	1 (Western Canada)		
Chalcophora virginiensis Drury	<u>Virginian buprestid</u>	3 (Man. Sask.)		
Chrysobothris				
sp.		1		
verdigrispennis Frost	Green hemlock borer	1 (N.B.)		

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
rufipes Deg.		19		
pleuriticus Kirby		10		
<i>Pterostichus</i>				
adstrictus Esch.		50		
coracinus Newm.		49		
haematopus Dej.		1		
punctatissimus Rand		3		
<i>Sphaeroderus nitidicollis</i>				
nitidicollis Chevr.		3		
Trechus rubens F.		1		
<u>CERAMBYCIDAE</u>	Longhorned beetles			
Acanthocinus sp.		1		
Gnathacmaeops pratensis Laich.		5	1 Larvae	
Acmaeops proteus proteus Kby.		12	1 Larvae	
<i>Anoplodera</i>				
canadensis Oliv.	Red-shouldered pine borer	19		
chrysocoma Kby.		8		
mutabilis Newm.		8		
proxima Say.		1 (N.B.)		
sanquinea Lec.		1 (N.B.)		
sexmaculata Linn.		2 (Sask.)		
vittata Swed.		2 (N.B.)		
Xestoleptura tibialis Lec.		18		
Callidium violaceum L.		51		
Desmocerus palliatus Forst.	Elder borer	47	1 Larvae	
Evodinus monticola monticola Rand.		6		
Grammoptera subargentata Kby.		4 (Alta.)		
Leptura subhamata Rand.		1 (N.B.)		
Meriellum proteus Kby.		2 (Man. Sask.)		
<i>Moneilema</i>				
albopictum White		1 (Mexico)		
blapsides Newm.		2 (Mexico)		
gigas Lec.		2 (Arizona)		
moneilema nr. variolure Thom		1 (Mexico)		
<i>Monochamus</i>				
notatus Drury	<u>Northeastern sawyer</u>	1		
scutellatus Say	<u>Whitespotted sawyer</u>	68	5 Larvae	

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
Neoclytus sp. muricatulus muricatulus Kby.		7	1 Larvae	
Oberea ruficollis Fab. schaumii Lec.		2 (N.B.) 2 (Alta.)	1 Larvae	
Pachyta lamed Linn.		1		
Pogonocherus parvulus Lec. penicellatus Lec.	Little spruce sawyer	3 (Man.) 6		
Saperda sp. tridentata Oliv.	<u>Elm borer</u>	1 (Alta.) 4 (Man., N.B.)		
Spondylis upiformis Mann.		1 (Alta.)		
Rhagium inquisitor Linn.		5	2 Larvae	
Tetraopes tetrophthalmus Forst.	<u>Red milkweed beetle</u>	5 (Man., N.B.)		
Tetropium cinnamopterum Kby.		2		
Typocerus velutinus Oliv.		3 (N.B.)		
Xylotrechus sp. annosus Say colonus F. obliteratus Lec. undulatus Say	<u>Rustic borer</u> Spruce zebra beetle	1 (N.B.) 1 (Alta.) 3 4 (Sask.) 8		
Arhopalus foveicollis Hald.		12		
Ropalopus sanguinicollis Horn		1 (N.B.)		
Amniscus macula Say		1 (N.B.)		
Astyleiopus variegatus Hald.		2 (Sask.)		
<u>CHRYSOMELIDAE</u>	Leaf beetles			
Acalymma vittata Fab.	<u>Striped cucumber beetle</u>	1 (N.B.)		
Adoxus obscurus Linn.	<u>Western grape rootworm</u>	9	1 Larvae	
Altica sp. ambiens alni Harr. populi Brown ulmi Woods	<u>Alder flea beetle</u> <u>Poplar flea beetle</u> <u>Elm flea beetle</u>	6 7 4 (Man.) 1 (N.B.)		

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<i>Calligrapha</i>				
<i>alni</i> Schffr.	Russet alder leaf beetle	1 (Man.)		
<i>ignota</i> Brown		3 (Man.)		
<i>bigbyana</i> Kby.		5 (Man., Sask.)		
<i>Chalcoides</i> sp.		4 (Man.)		
<i>Chrysolina staphylaea</i> L.		1		
<i>Chrysomela</i>				
<i>interrupta</i> Fab.		1 (Man.)		
<i>crotchi</i> Brown	<u>Aspen leaf beetle</u>	3 (Man.)		
<i>mainensis mainensis</i> Bech.	Alder leaf beetle	76	2 Larvae	
<i>knabi</i> Brown	Spotted willow leaf beetle	1 (Sask.)		
<i>falsa</i> Brown	Willow leaf beetle	95	3 Larvae	
<i>Disonycha</i>				
<i>alternata</i> Ill.		3 (Sask.)		
<i>quinquevittata</i> Say		1 (Man.)		
<i>Donacia</i> sp.		5		
<i>Pyrrhalta</i>				
sp.		12		
<i>decora</i> Say	<u>Gray willow leaf beetle</u>	45	1 Larvae	
<i>nymphaeae</i> Linn.	<u>Waterlily leaf beetle</u>	4 (Man.)		
<i>Orsodacne atra</i> Ahr.		8 (Alta.)		
<i>Phratora</i>				
sp.		3 (Sask.)		
<i>purpurea purpurea</i> Brown	Aspen leaf beetle	31	1 adult	
<i>Phyllotreta</i> sp.		1 (Sask.)		
<i>Syneta</i>				
sp.		32		
<i>ferruginea</i> Germ.	Rusty leaf beetle	4		
<i>pilosa</i> Brown		5		
<i>extoris borealis</i> Brown		14		
<u>CICINDELIDAE</u>	Tiger beetles			
<i>Cicindela</i>				
<i>duodecimguttata</i> Dej.		35		
<i>longilabris</i> Say		4		

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<u>CISIDAE</u>				
	Minute tree-fungus beetles			
Cis sp.		1 (Germany)		
<u>CLERIDAE</u>				
	Checkered beetles			
Thanasimus dubius F.		1		
Necrobia violacea Linn.		1 (N.B.)		
Phyllobaenus humeralis Say		2 (Man., Sask.)		
<u>COCCINELLIDAE</u>				
	Lady beetles			
Adalia				
sp.		12		
frigida Schn.		2 (N.B.)		
bipunctata L.	<u>Twospotted lady beetle</u>	31 (N.B.)	5 pupae, adults	
ronina Lewis		25 (Japan)	6 larvae, pupae, adults	
tetraspilota Hope		21 (India)	4 larvae	
Anatis quindecimpunctata Oliv.	Fifteenspotted lady beetle		1 larvae (N.B.)	
Anatis mali Say	Eyespotted lady beetle	33	2 larvae, pupae	Pupae (C)
Anisocalvia quatuor- decimguttata L.	Fourteenspotted lady beetle	4		
Ballia eucharis Muls.		34 (India)	20 larvae, pupae, adults	
Brachyacantha ursina F.		3 (N.B.)		
Chilocorus stigma Say	<u>Twicestabbed lady beetle</u>	46 (N.B., Sask.)	13 larvae, adults	Larvae (C)
Coccinella				
sp.		1 (N.B.)		
monticola Muls.		21 (Man., N.B.)		
transversoguttata	Transverse lady beetle	25		
richardsoni Brown				
trifasciata perplexa Muls.		6		

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
Exochomus				
sp.		3 (Pakistan)		
lituratus Gorh.		27 (Pakistan)		
uropygialis Muls.		73 (Pakistan)	7 pupae, adults	
Harmonia breiti Mader		26 (India, Pakistan)	7 eggs, larvae, adults	
Hippodamia				
parenthesis Say		1 (Sask.)		
tredecimpunctata	<u>Thirteenspotted lady beetle</u>	7 (N.B.)		
tibialis Say				
tibialis Say		4 (Man., Sask.)		
Hyperaspis congener Say		1 (Sask.)		
Leis dimidiata Fab.		17 (India)	19 eggs, larvae pupae, adults	
Microweisea marginata Lec.		3 (Man.)		
Mulsantina				
sp.		19 (N.B.)		
hudsonica Csy.		138		
picta Rand.	Pine lady beetle	2 (N.B.)		Pupae (C)
Neomysia sp.		1 (N.B.)		
Psyllobora viginti- maculata Say		6 (Sask., Man.)		
Scymnus				
sp.		6 (Man.)		
pumilio Ws.		28 (Australia)	3 adults	
Aphidecta oblitterata L.		186 (Austria, Germany)	29 larvae, adults	Larvae (C)
Pullus impexus Muls.		76 (Germany)	25 larvae, adults	
Synharmonia conglobata L.		9 (India)	2 larvae	

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<u>CUCUJIDAE</u>				
	Cucujid beetles or flat bark beetles			
Silvanus bidentatus F.		1 (N.B.)		
<u>CURCULIONIDAE</u>				
	Snout beetles or weevils			
Anthonomus sp.		4 (Sask.)		
Otiorhynchus				
ovatus Linn.	<u>Strawberry root weevil</u>	50		
singularis Linn.	Clay-colored root weevil	29		
sulcatus F.	<u>Black vine weevil</u>	7		
Cryptorhynchus lapathi Linn.	<u>Poplar-and-willow borer</u>	17		
Conotrachelus nenuphar Hbst.	<u>Plum curculio</u>	2 (Man.)		
Cossonus sp.		4		
Curculio sp.		2 (Man.)		
Dorytomus				
sp. prob. parvicollis Csy.		2		
sp. prob. vagenotatus Csy.		1		
Hylobius				
sp.			1 Larvae	
congenor D.T.		5		
warreni Wood	Warren's collar weevil	2		
pinicola Couper	Couper's collar weevil	12		
Hypera punctata F.	<u>Clover leaf weevil</u>	2		
Lepyurus palustris Scop.		4 (Alta., Sask.)		
Lixus rubellus Rand.		1 (Sask.)		
Magdalis				
sp.		4		
armicollis Say	<u>Red elm bark weevil</u>	9 (Sask.)		
Nemocestes horni Van D.		2		
Pissodes				
sp.		11		
dubius Rand.	Balsam bark weevil	9		
engelmanni Hopk.	Engelmann spruce weevil	4 (Alta., Man.)		
Cimberis pallipennis (Blat.)		1		
Rhyncolus sp.		2 (Man.)		
Rhynchites bicolor Fab.	<u>Rose curculio</u>	3 (Sask.)		
Sciaphilus asperatus Bond		1 (N.B.)		

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
Sitona sp. scissifrons Say tibialis Hbst.		2 (Man., Sask.) 1 (N.B.) 1 (Western Canada)		
Strophosoma melanogrammum Forst.		33		
<u>HELODIDAE</u>	Marsh beetles			
Cyphon sp. variabilis Thunb.		1 (N.B.) 7 (N.B., Man.)		
<u>DASCILLIDAE</u>	Soft-bodied plant beetles			
Eurypogon harrisi Westw.		1 (Man.)		
<u>DERMESTIDAE</u>	Dermestid beetles			
Anthrenus museorum (L.) scrophulariae Linn.		4 1 (N.B.)		
Dermestes lardarius Linn.	<u>Carpenter beetle</u>	11		
Perimegatoma sp.	<u>Larder beetle</u>	1 (N.B.)		
<u>DERODONTIDAE</u>	Tooth-necked fungus beetles			
Laricobius sp. rubidus Lec.		17 (N.B.) 14 (N.B.)		
erichsonii Rosenh.		295 (Germany)	39 eggs, larvae, adults	
			147 larvae, pupae, adults	
<u>DYTISCIDAE</u>	Predaceous diving beetles			
Acilius semisulcatus Aube		11		
Colymbetes sculptilis Harr.		1		
Dytiscus dauricus Geb.		8		
Rhantus sp.		2		

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<u>ELATERIDAE</u>		Click beetles, wireworms		
Agriotes				
fucosus Lec.		4 (Man., Sask.)		
limosus Lec.	Little brown click beetle	10		
Ampedus				
sp.		1		
apicatus Say		1		
collaris Say		1 (Man.)		
pullus Germ.		3 (Man., Sask.)		
Ctenicera				
appropinquans Rand.		2		
falsifica Lec.		12		
mediana Germ.		2 (Man., Sask.)		
nitidula Lec.		15		
ochreipennis Lec.		4 (Man.)		
resplendens aeraria Rand.		5		
spinosa Lec.		3		
stricklandi Brown		3 (Man., Sask.)		
triundulata Rand.	Three-spotted click beetle	23		
resplendens resplendens Esch.		1 (Sask.)		
Eanus decoratus Mann.		1 (Sask.)		
Lacon				
brevicornis Lec.		1 (Sask.)		
obtectus Say		2 (Sask.)		
Denticollis denticornis Kby.		2		
Limonius pectoralis Lec.		1 (Man.)		
Megapenthes stigmatosus Lec.		4 (Man., Sask.)		
Sericus brunneus Linn.		2 (Man., Sask.)		
Drasterius debilis Lec.		1 (N.B.)		
<u>GYRINIDAE</u>		Whirligig beetles		
Dineutus assimilis Aubé		8		

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<u>HYDROPHILIDAE</u>		Water scavenger beetles		
Cryptopleurum minutum Fab.		1 (N.B.)		
Hydrobius fuscipes L.		1		
Tropisternus mixtus Lec.		3		
Paracymus sp.		1 (N.B.)		
<u>LAMPYRIDAE</u>		Fireflies		
Lucidota sp.		3 (N.B.)		
corrusca Linn.		11		
Pyraclomena borealis Rand.		4 (Sask.)		
<u>LATHRIDIIDAE</u>		Minute brown scavenger beetles		
Lathridius consimilis Mann.		2 (N.B.)		
Melanophthalma sp.		2 (N.B.)		
Stephostethus angusticollis Gyll.		1 (Germany)		
<u>LYCIDAE</u>		Netwinged beetles		
Calopteron terminale Say		2 (Man.)		
Dictyopterus aurora Hbst.		8		
Plateros sp.		1		
<u>MELANDRYIDAE</u>		False darkling beetles		
Emmesa connectens Newm.		1		
Serropalpus sp.		1		
barbatus Schall		3		
substriatus Hald.		18		
Canifa pallipes Melsh.		4 (Man.)		
Symphora flavicollis Hald.		1 (N.B.)		
<u>MELOIDAE</u>		Blister beetles		
Epicauta ferruginea Say		1 (Man.)		
subglabra Fall	<u>Caragana blister beetle</u>	2 (Man.)		

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<i>Lytta nuttali</i> Say	<u>Nuttall blister beetle</u>	5 (Sask.)		
<i>Meloe angusticollis</i> Say		6		
<u>MELYRIDAE</u>	Soft-winged flower beetles			
<i>Malachius aeneus</i> L.		1		
<u>NITIDULIDAE</u>	Sap beetles			
<i>Cateretes sericans</i> Lec.		6		
<i>Epuraea</i> sp.		1 (N.B.)		
<i>Glischrochilus fasciatus</i> Oliv.		1 (N.B.)		
<u>OEDEMERIDAE</u>	Oedemerid beetles			
<i>Calopus angustus</i> Lec.		3		
<i>Nacerda melanura</i> L.	<u>Wharf borer</u>	4		
<u>ORTHOPERIDAE</u>	Minute fungus beetles			
<i>Sacium lugubre</i> Lec.		3 (Man.)		
<u>OSTOMIDAE</u>	Ostomid beetles			
<i>Ostoma ferruginea</i> Linn.		3		
<i>Thymalus marginicollis</i> Chev.		1		
<u>PASSALIDAE</u>	Passalid beetles			
<i>Popilius disjunctus</i> Ill.	<u>Horned passalus</u>	1 (U.S.A.)		
<u>PHALACRIDAE</u>	Shining fungus beetles			
<i>Phalacrus</i> sp.		4 (Australia)		
<u>PLATYSTOMIDAE</u>	Fungus weevils			
<i>Anthribus nebulosus</i> Forst.		1 (Germany)		
<u>PYROCHROIDAE</u>	Fire-colored beetles			
<i>Dendroides concolor</i> Newm.		6		

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<u>PYTHIDAE</u>				
	Narrow-waisted bark beetles			
<i>Lecontia discicollis</i> Lec.		1		
<i>Priognathus monilicornis</i> Rand.		1 (Western Canada)		
<i>Rhinosimus viridaenus</i> Rand.		1 (N.B.)		
<u>SCARABAEIDAE</u>				
	Scarabs			
<i>Aphodius</i> sp.		1 (Western Canada)		
<i>fimetarius</i> Linn.		12		
<i>leopardus</i> Horn		1 (Man.)		
<i>hamatus</i> Say		1 (Sask.)		
<i>Dichelonyx</i> <i>backi</i> Kby.	<u>Green rose chafer</u>	5 (Man., Sask.)		
<i>elongatula</i> Schon.		6		
<i>subvittata</i> Lec.		5 (N.B., Man.)		
<i>Geotrupes</i> sp.		4		
<i>stercorarius</i> Linn.		1		
<i>Onthophagus</i> sp.		1 (Western Canada)		
<i>Phyllophaga</i> sp.		26	1 Larvae	
<i>anxia</i> Lec.	Common June beetle	3		
<i>Serica</i> sp.		4 (Man.)		
<i>tristis</i> Lec.	Small leaf chafer	3 (N.B.)		
<u>SCOLYTIDAE</u>				
	Bark beetles			
<i>Crypturgus atomus</i> Lec.		8		
<i>Dendroctonus</i> <i>rufipennis</i> Kby.	<u>Spruce beetle</u>	16		
<i>simplex</i> Lec.	<u>Eastern larch beetle</u>	12		
<i>valens</i> Lec.	<u>Red turpentine beetle</u>	1 (Man.)		

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
Dryocoetes				
affaber Mann.		16		
betulae Hopk.	<u>Birch bark beetle</u>	21		
autographus Ratz.		3		
Hylurgopinus rufipes Eich.	<u>Native elm bark beetle</u>	3 (Man.)		
Ips				
borealis Sw.	Engraver beetle	5 (Sask.)		
perturbatus Eich.	Northern spruce engraver	4 (Man., Sask.)		
pini Say	<u>Pine engraver</u>	41		
Orthotomicus				
caelatus Eich.		6		
latidens Lec.		1 (Sask.)		
Pityogenes				
hopkinsi Sw.		38		
sparsus Lec.	Balsam fir bark beetle	8		
Pityokteines elegans Sw.		4 (Man.)		
Pityophthorus sp.		8		
Polygraphus rufipennis Kby.	Four-eyed bark beetle	28		
Pseudohylesinus nebulosus Lec.		1 (B.C.)		
Scierus amnectans Lec.		1		
Scolytus piceae Sw.	Spruce bark beetle	5 (Man., Sask.)		
Trypodendron lineatum Oliv.	<u>Striped ambrosia beetle</u>	66		
<u>SILPHIDAE</u>	Carrion beetles			
Nicrophorus				
sp.		7		
investigator Zett.		1		
vespilloides Hbst.		6		
Silpha				
americana L.		5 (N.B.)		
noveboracensis Forst.		12 (N.B.)		
surinamensis F.		11		
Thanatophilus lapponicus Hbst.		3		
<u>STAPHYLINIDAE</u>	Rove beetles			
Creophilus maxillosus L.		3		
Ontholestes cingulatus Grav.		4		
Staphylinus sp.		3 (Man.)		

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<u>TENEBRIONIDAE</u>		Darkling beetles		
Corticeus sp.		1 (Man.)		
Paratenetus sp.		1 (N.B.)		
Phellopsis obcordata Kby.		6		
Tenebrio sp.		12		
molitor Linn.	Yellow mealworm	3		
Upis ceramoides Linn.	Roughened darkling beetle	11		
<u>LEIODIDAE</u>		Round fungus beetles		
Anisotoma sp.		1 (N.B.)		
basalis Lec.		1 (N.B.)		
<u>DIPTERA</u>				
<u>ANTHOMYIIDAE</u>		Anthomyiid flies		
Acrostilpna atricauda Zett.		1		
Pegoma sp.		2		
<u>BIBIONIDAE</u>		March flies		
Bibio sp.		10		
slossonae Cock.		4		
<u>CECIDOMYIIDAE</u>		Gall midges		
Aphidoletes thompsoni Mohn		118 (Germany)	80 larvae, adults	
<u>CHAMAEMYIIDAE</u>		Chamaemyiid flies, aphid flies		
Cremifania nigrocellulata Cz.		67 (Germany)	40 larvae, adults	
Leucopis sp.		98 (Germany)	37 larvae, adults	

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
americana Mall.		8 (N.B.)	1 larvae	Larvae (C)
atrátula Ratz.		70 (Germany)		
manii Tanas		1 (India)	3 adults	
obscura Hald.		197 (Germany)	53 larvae, adults	
pinicola Mall.		16 (Germany)		
<u>CHIRONOMIDAE</u>	Midges			
Chironomus sp.		1 (N.B.)		
Chasmatonotus atripes Remp.		6 (N.B.)		
Polypedilum sp.		1		
<u>DOLICHOPODIDAE</u>	Longlegged flies			
Medetera sp.		8 (N.B.)		
veles Lw.		3 (N.B., N.S.)		
<u>DROSOPHILIDAE</u>	Vinegar flies			
Drosophila sp.		1 (N.B.)		
transversa Fln.		1 (N.B.)		
<u>EMPIDIDAE</u>	Dance flies			
Rhamphomyia sp.		1 (N.B.)		
Tachypeza fenestrata Say		3 (N.B.)		
<u>LAUXANIIDAE</u>	Lauxaniid flies			
Lauxania cylindricornis F.		1 (N.B.)		
<u>LONCHAEIDAE</u>	Lonchaeid flies			
Lonchaea laxa Collin		1		
<u>SARCOPHAGIDAE</u>	Flesh flies			
Agria housei Shew.		1		

Cont'd ...

<u>Species</u>	<u>Common name</u>	<u>No. specimens and source</u>	<u>No. vials preserved material</u>	<u>Photographs</u>
<u>MUSCIDAE</u>	House flies, stable flies and allies			
<i>Fannia manicata</i> Mg.		1		
<i>Limosia trisetata</i> Stein		1		
<u>PHORIDAE</u>	Humpbacked flies			
<i>Megaselia</i> sp.		1 (N.B.)		
<u>MILICHIIDAE</u>	Milichiid flies			
<i>Mallochiella latipes</i> Mg.		1 (N.B.)		
<u>RHAGIONIDAE</u>	Snipe flies			
<i>Rhagio mystaceus</i> Macq.		5 (N.B.)		
<u>SCIARIDAE</u>	Fungus knats			
<i>Bradysia</i> sp.		4 (N.B.)		
<u>SYRPHIDAE</u>	Flower flies			
<i>Allograpta obliqua</i> Say		2 (N.B.)		
<i>Cnemodon</i> sp.		9 (N.B.)	2 adults	
<i>Epistrophe xanthostoma</i> Will		5 (N.B.)		
<i>Eristalis</i>				
<i>arbustorum</i> L.		3 (N.B.)		
<i>tenax</i> L.	<u>Drone fly</u>	12 (N.B.)		
<i>Melanostoma</i> sp.		1 (N.B.)		
<i>Mesogramma marginata</i> Say		15 (N.B.)		
<i>Metasyrphus</i>				
<i>lapponicus</i> Zett.	Lapland syrphid fly	87 (Germany)		
<i>americanus</i> Wied.		9 (N.B.)		
<i>Neocnemonodon</i>				
sp.		3 (N.B.)		
<i>coxalis</i> Curr.		4 (N.B.)	8 larvae	Larvae (C)
<i>Rhingia nasica</i> Say		3 (N.B.)		
<i>Sphaerophoria</i>				
sp.		1 (N.B.)		
<i>menthastri</i> L.		1 (N.B.)		
<i>robusta</i> Curr.		1 (N.B.)		

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<i>Syrphus</i>				
<i>torvus</i> O.S.		55 (N.B.)		Larvae (C)
<i>ribesii</i> L.		3 (N.B.)		
<i>vittafrons</i> Shann.		1 (N.B.)		
<i>Toxomerus geminatus</i> Say		1 (N.B.)		
<i>Chrysotoxum laterale</i> Lw.		1 (N.B.)		
<i>Syritta pipiens</i> L.		1 (N.B.)		
<i>Melangyna</i>				
<i>genualis</i> Will.		1 (N.B.)		
<i>mentalis</i> Will.		1 (N.B.)		
<i>Meliscaeva cinctellus</i> Zett.		1 (N.B.)		
<i>Eumerus strigatus</i> Fall.	<u>Onion bulb fly</u>	1 (N.B.)		
<i>Temnostoma</i>				
<i>alternans</i> Lw.		1 (N.B.)		
<i>vespiforme</i> Linn.		1 (N.B.)		
<i>Xylotomima nemorum</i> Fab.		1 (N.B.)		
<u>TACHINIDAE</u>	<u>Tachina flies</u>			
<i>Lespesia frenchii</i> Will.		2		
<i>Actia</i>				
<i>diffidens</i> Curr.		33		
<i>interrupta</i> Curr.		29		
<i>Erynnia tortricis</i> Coq.		1		
<i>Aplomya caesar</i> Ald.		107		
<i>Bessa harveyi</i> Tns.		167		
<i>Grisdalemyia bigelowi</i> Curr.		1 (C.N.C.)		
<i>Nilea sternalis</i> Coq.		7		
<i>Madremyia saundersii</i> Will.		36		
<i>Nemorilla pyste</i> Wlk.		19		
<i>Pelatachina pellucida</i> Coq.		23		
<i>Blondelia eufitchiae</i> Tns.		5		
<i>Phryxe pecosensis</i> Tns.		53		
<i>Voria aurifrons</i> Tns.		3		
<i>Winthemia occidentis</i> Rnh.		476		
<i>Palexorista bohemica</i> Mesn.		8		
<u>TIPULIDAE</u>	<u>Crane flies</u>			
<i>Discobola argus</i> Say		1 (N.B.)		

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<u>SIMULIIDAE</u>				
	Black flies			
Simulium sp.		1		
<u>HEMIPTERA</u>				
<u>ANTHOCORIDAE</u>				
	Flower bugs, minute pirate bugs			
Tetraphleps sp.		22		
canadensis Prov.		10		
latipennis Van D.		15		
raoi Ghauri		9 (India)		
uniformis Parsh.		41 (N.B.)		
<u>BELASTOMATIDAE</u>				
	Giant water bugs			
Lethocerus americanus Leidy	<u>Giant water bug</u>	9		
<u>CYNIDAE</u>				
	Burrower bugs			
Sehirus cinctus P. De B.		15		
<u>LYGAEIDAE</u>				
	Lygaeid bugs			
Eremocoris ferus Say		10		
Kleidocerys resedae germinatus Say		1 (N.S.)		
Lygaeus sp.		2 (Sask.)		
<u>MIRIDAE</u>				
	Leaf bugs or plant bugs			
Calocoris norvegicus (Gmelin)	Strawberry bug	3		
Deraeocoris				
aphidiphagus Kngt.		7 (N.B.)		
kennicotti Kngt.		1 (Sask.)		
pinicola Kngt.		7 (N.B.)		
Lopidea dakota Kngt.	Caragana plant bug	3 (Sask.)		
Lygus sp.		1 (N.B.)		
Neoborus amoenus Reut.	Ash plant bug	3 (Alta.)		
Orthotylus prob- submarginatus (Say)		1		

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<i>Phytocoris</i> sp.		1		
<i>junceus</i> Kngt.		2 (Man., Sask.)		
<i>neglectus</i> Kngt.		9 (N.B.)		
<i>Plagiognathus</i> sp.		2 (N.B.)		
<i>Psallus piceicola</i> Kngt.		1 (N.B.)		
<i>Pinalitus approximatus</i> Stal.		2		
<u>NABIDAE</u>	Damsel bugs			
<i>Nabis ferus</i> L.		12		
<u>NOTONECTIDAE</u>	Backswimmers			
<i>Notonecta undulata</i> Say	Variegated back swimmer	6		
<u>PENTATOMIDAE</u>	Stink bugs			
<i>Apateticus cynicus</i> Say		12		
<i>Banasa dimidiata</i> Say	Banasa stink bug	5 (Sask.)		
<i>Chlorochroa uhleri</i> Say		4		
<i>Cosmopepla bimaculata</i> Thomas	Twospotted stink bug	6 (Man., Sask.)		
<i>Elasmostethus cruciatus</i> Say	Red-crossed stink bug	37		
<i>Euschistus</i> <i>euschistoides</i> Voll.		3 (Sask.)		
<i>tristigmus</i> Say	Dusty stink bug	2 (N.B.)		
<i>Meadorus lateralis</i> Say	Mottled stink bug	20		
<i>Podisus</i> <i>modestus</i> Dall.		2 (Sask.)		
<i>placidus</i> Uhl.		1 (Ont.)		
<i>serieiventris</i> Uhl.		10		
<i>Thyanta</i> sp.		3 (Alta., Man.)		
<u>PHYMATIDAE</u>	Ambush bugs			
<i>Phymata</i> sp.		1 (Man.)		
<i>fusciata</i> Gray		1 (Sask.)		
<u>REDUVIIDAE</u>	Assassin bugs			
<i>Zelus socius</i> Uhl.		1 (Man.)		

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<u>TINGIDAE</u>				
	Lace bugs			
Corythucha sp. mollicula O. & D.		12 1 (Sask.)		
<u>HOMOPTERA</u>				
<u>APHIDIDAE</u>				
	Aphids or plant lice			
Aphis farinosa Gmelin			1 nymph	
Capitophorus braggii Gill.			2 nymphs	
Chaitophorus populifoliae Oest.			1 nymph	
Cinara				
fornacula H.	<u>Green spruce aphid</u>		1 nymph	
laricifex Fitch	Larch aphid		4 nymphs	
obscura Brad.			1 nymph	
abieticola Cholod.	Balsam fir aphid		2 nymphs	
braggii Gill.	Spruce aphid		1 nymph	
Pterocomma populifoliae Fitch	Poplar aphid		1 nymph	
Euceraphis				
betulae Koch.	Birch aphid		1 nymph	
gillettei Davidson			1 nymph	
Hamamelistes spinosus Shim.	Spiny witch hazel gall aphid		1 nymph	
Mindarus abietinus Koch.	<u>Balsam twig aphid</u>		12 eggs, nymphs, adults	
Myzus cerasi Fabr.	<u>Black cherry aphid</u>		15 nymphs	
Periphyllus lyropictus Kessler	<u>Norway maple aphid</u>		1 nymph	
<u>CERCOPIDAE</u>				
	Spittlebugs			
Aphrophora signoreti Fitch	Signoret spittlebug	4 (Man., Ont.)		
Clastoptera obtusa Say	<u>Alder spittlebug</u>	1 (Sask.)		
Lepyronia quadrangularis Say	<u>Diamondbacked spittlebug</u>	2 (Man.)		
<u>PSYLLIDAE</u>				
	Jumping plantlice or psyllids			

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<i>Pachypsylla celtidis-</i> <i>mamma</i> Fletcher	<u>Hackberry nipplegall</u> <u>maker</u>	4 (Man.)		
<i>Psylla</i> <i>striata</i> Patch	Birch psyllid		1 nymph (C.N.C.)	
<i>tuthulli</i> Chal.		2 (Man., Sask.)		
<u>CICADELLIDAE</u>	Leafhoppers			
<i>Cuerna striata</i> Walk.		1 (Man.)		
<i>Idiocerus</i> sp.		3 (Man., Sask.)		
<i>Oncopsis</i> <i>variabilis</i> Fitch			1 adult (C.N.C.)	
<i>sobrius</i> Walk.			1 adult (C.N.C.)	
<i>minor</i> Fitch			1 adult (C.N.C.)	
<i>Empoa gellettei</i> Van D.			1 adult (C.N.C.)	
<u>CICADIDAE</u>	Cicadas			
<i>Okanagana rimosa</i> Say		1 (Man.)		
<u>COCCIDAE</u>	Soft scales			
<i>Phenacaspis pinifoliae</i> Fitch	<u>Pine needle scale</u>		1 nymph	
<u>CIXIIDAE</u>	Cixiid plant hoppers			
<i>Cixius basalis</i> Vand.		3 (Man.)		
<u>MEMBRACIDAE</u>	Treehoppers			
<i>Carynota stupida</i> Wlk.	Stupid treehopper	2 (Man.)		
<i>Palonica pyramidiata</i> Uhl.		4 (Man., Sask.)		
<u>ADELGIDAE</u>	Pine and spruce aphids			
Adelges <i>abietis</i> L.	<u>Eastern spruce gall aphid</u>	7 (N.B.)		Nymphs (BW,C)
<i>piceae</i> Ratz.	<u>Balsam woolly aphid</u>			Damage (BW,C)

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
Pineus				
pinifoliae Fitch	<u>Pine leaf chermid</u>	6 (N.B.)		
strobi Htg.	<u>Pine bark aphid</u>	2 (N.B.)		
<u>HYMENOPTERA</u>				
<u>ARGIDAE</u>				
	Argid sawflies			
Arge				
sp.		1		
clavicornis (Fab.)	Willow argid	2		
pectoralis Leach	<u>Birch sawfly</u>		1 larvae (N.B.)	
<u>BRACONIDAE</u>				
	Braconids			
Agathis				
annulipes Cress.		6		
pumila Ratz.		737		
Apanteles				
congregatus Say		9 (N.B.)		
fiskei Vier.		18		
fumiferanae Vier.		86		
milleri Mason		10		
solitarius Ratz.		73		
Aphidius testaceipes Cress.		1 (N.B.)		
Ascogaster				
sp.		1		
argentifrons Prov.		13		
Blacus sp.		1		
Bracon				
gelechiaae Ashm.		2		
juncicola Ashm.		2		
Coeloides sp.		6 (N.B.)		
Earinus zeirapherae Wly.		16		

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
Eubadizon				
sp.		4		
crassigaster Prov.		3 (N.B.)		
Ichneutes				
sp.		37		
pikonematis Mason		31		
Macrocentrus				
sp.		1		
nigradorsis Vier.		33		
marginator W.		1		
Meteorus				
sp.		1 (N.B.)		
argyrotaeniae Joh.		19		
trachynotus Vier.		59		
Microgaster				
canadensis Mues.		1 (C.N.C.)		
peroneae Wly.		52		
Oncophanes americanus Weed		1		
Orgilus				
sp.		1 (N.B.)		
obscurator Nees		16		
coleophorae Mues.		34		
Rogas sp.		6	2 adults	
Zeles sp.		7		
Microchelonus? recurvariae McComb		1		
<u>CERAPHRONIDAE</u>	Ceraphronids			
Aphanognus sp.		4 (N.B.)		
Lygocerus sp.		1 (N.B.)		
<u>CHALCIDIDAE</u>	Chalcids			
Spilochalcis albifrons Walsh		19		
<u>CIMBICIDAE</u>	Cimbicid sawflies			
Cimbex americana L.	<u>Elm sawfly</u>	4	2 larvae	Larvae adults (C)

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
Trichiosoma sp.		5	2 larvae	Larvae adults (C)
<u>CYNIPIDAE</u>	Cynipids or gall wasps			
Allotria sp.		1		
<u>DIPRIONIDAE</u>	Conifer sawflies			
Diprion hercyniae Htg.	<u>European spruce sawfly</u>	82	3 larvae, pupae	Larvae (C)
Neodiprion abietis complex	<u>Balsam fir sawfly</u>	198	26 larvae, pupae, adults	
lecontei Fitch	<u>Redheaded pine sawfly</u>		2 larvae, pupae (Ont.)	
namulus Schedl	<u>Red pine sawfly</u>		1 larvae (Ont.)	
sertifer Geoff.	<u>European pine sawfly</u>	115	1 larvae (Ont.)	
<u>ENCYRTIDAE</u>	Encyrtids			
Copidosoma sp.		11		
deceptor Miller		1		
Microterys physokermis Comp.		1 (N.B.)		
Bothriothorax noveboracensis How.		27 (N.S.)		
Parapsilophryx sp.		3		
Syrphophagus quadrimaculatae Ashm.		20 (N.B.)		
<u>EULOPHIDAE</u>	Eulophids			
Chrysocharis auronitens Ratz.		1		
laricinellae Ratz.		185		
? laeta Ratz.		2		

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<i>Cirrospilus cinctithorax</i> Gir.		345		
<i>Euplectrus mellipes</i> Prov.		13		
<i>Hyssopus</i>				
sp.		1 (N.S.)		
<i>thymus</i> Grlt.		15 (Ont.)		
<i>Pnigalio</i>				
sp.		7		
<i>flavipes</i> Ashm.		29		
<i>uroplatae</i> How.		2		
<i>proximus</i> Ashm.		1		
<i>Tetrastichus</i>				
<i>coerulescens</i> Ashm.		4		
<i>minutus</i> How.		8 (N.B.)		
<i>Dicladocerus terraenovae</i> Yshm.		16		
<u>EUPHELMIDAE</u>	Eupelmids			
<i>Eupelmella vesicularis</i> Ratz.		3		
<u>FIGITIDAE</u>				
<i>Anacharis</i> sp.		1 (N.B.)		
<i>Melanips iowensis</i> Ashm.		1 (N.B.)		
<u>FORMICIDAE</u>	Ants			
<i>Camponotus herculeanus</i> Linn.	Carpenter ants	3		
<i>Formica fusca</i> L.	<u>Silky ant</u>	3		
<i>Myrmica</i>				
sp.		1 (N.B.)		
<i>lobicornis fracticornis</i> Emery		4 (N.B.)		
<u>ICHNEUMONIDAE</u>	Ichneumons			
<i>Acrolyta alticola</i> Ashm.		1		
<i>Adelognathus</i> sp.		1		
<i>Agrothreutes lophyri</i> Nort.		1		
<i>Alegina apantelis</i> Cush.		2 (N.B.)		
<i>Aoplus velox velox</i> Cress.		7		

Cont'd . . .

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
Apechthis ontario Cress.		535	2 adults	
Campoplex				
sp.		62		
n. sp. sensu Horstman		22		
sp. nr. borealis Zett.		12		
borealis Zett.		75		Adults (C)
hyalinus Prov.		3		
validus Cress.		1		
mellipes Prov.		3		
Casinaria				
sp.		3		
eupitheciae Vier.		1		
forcipata Wly.		1		
geometrae geometrae Wly.		2		
semiothisae Wly.		5		
Chorinaeus				
excessorius Davis		1		
longicalear Thoms		3		
Cteniscus n. sp.		16		
Ctenochira quebecensis Prov.		15		
Diplazon laetatorius Feb.		1 (N.B.)		
Dusona				
ellopiae Wly.		2		
seamansi Vier.		1		
Eclytus ornatus Holmg.		289		
Endasys				
pubescens Prov.		3		
subclavatus Say		26		
Erromenus bedardi Prov.		28		
Euceros				
sp.		1		
frigidus Cress.		1		
Exenterus vellicatus Cush.		3		
Exochus				
sp.		2		
albifrons Cress.		2		

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<i>peroniae</i> Tow. and Tow.		1		
<i>nigripalpis tectulum</i> Tow. and Tow.		3		
<i>decoratus</i> Holm.		1		
<i>decoratus scitulus</i> Prov.		3		
<i>Gelis</i>				
<i>sp.</i>		25		
<i>apantelis</i> Cush.		21		
<i>tenellus</i> Say		17		
<i>obscurus</i> Cress.		1 (N.B.)		
<i>urbanus</i> Brues		1		
<i>Glypta</i>				
<i>sp.</i>		5		
<i>fumiferanae</i> Vier.		624		
<i>Gnyptomorpha</i> <i>sp.</i>		1 (N.B.)		
<i>Gravenhorstia</i> <i>sp.</i>		1		
<i>Haplaspis mandibularis</i> Prov.		8 (N.B.)		
<i>Diadegma</i>				
<i>sp.</i>		7		
<i>conodor</i> Vier.		6		
<i>Tranosema</i>				
<i>sp.</i>		2		
<i>arenicola</i> Thom.		30		
<i>Hercus fontinalis</i> Holm.		4		
<i>Hyposoter</i> <i>sp.</i>		17		
<i>Itoplectis</i>				
<i>conquisitor</i> Say		90		
<i>quadricingulatus</i> Prov.		179	1 adult	
<i>vesca</i> Tow.		3		
<i>Trichionotus</i> <i>sp.</i>		5		
<i>Lamachus</i>				
<i>sp.</i>		211		
<i>lophyri</i> Ashm.		38		
<i>ruficoxalis</i> Cush.		174		
<i>Mastrus</i>				
<i>aciculatus</i> Prov.		27		
<i>argeae</i> Vier.		4		
<i>laplantei</i> Mason		2		

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
Megarhyssa sp.		4		
Mesochorus				
sp.		119		
sp. No. 1		1		
sp. No. 2		1		
sylvarum Curtis		4		
discitergus Say		3		
masoni Dasch		1		
tachypus Holm.		8		
vittator Zett.		1		
Mesoleius				
sp.		4		
tenthredinis Morley		171	1 adult	
Nemeritus sp.		1		
Odontocolon canadense Prov.		1		
Olesicampe				
sp.		3		
pikonemae Wly		1		
Ophion sp.		5		
Phaeogenes				
sp.		4		
gaspesianus Prov.		12		
hariolus Cress.		332		
Phobocampe sp.		13		
Phygadeuon				
sp.		1		
ovalis Prov.		1		
Phytodietus				
sp.		6		
vulgaris Cress.		4		
Pimpla				
pedalis Cress.		4		
aequalis Prov.		16		
Promethes n. sp.		2 (N.B.)		
Ichneumon dioryctriae Heinr.		5		

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
Rhorus				
sp.		122		
sp. No. 1		7		
sp. No. 2		2		
Rhyssa lineolata	Kby.	15		
Scambus				
decorus	Wly.	16		
tecumseh	Vier.	16		
ephialtoides	Wly.	2		
Stenichneumon militarius		2		
leucopus	Heinr.			
Syndipnus gaspesianus	Prov.	1		
Syrphoctonus				
sp.		8 (N.B.)		
agilis	Cress.	24 (N.B.)		
Therion fuscipenne	Nort.	4		
Hemiteles	sp.	1		
Echthrus	sp.	1 (N.B.)		
Dolichomitus terebrans		1 (N.B.)		
nubilipennis	Vier.			
Acropimpla pronexus	Tow.	2		
Thyrateles procax	Cress.	70		
Zatypota	sp.	1 (N.B.)		
Excavarus velox	Wly.	7		
Grypocentrus albipes	Ruth	8		
Priopoda nigricollis	Thomson	25		
Orthomiscus	sp.	2		
Sinophorus	sp.	3		
Eridolius	sp.	3		
<u>PAMPHILIIDAE</u>	Web-spinning sawflies			
Acantholyda maculiventris		1	1 larvae	
Nort.				
Cephalcia				
nigropectus	Cress.	1 (C.N.C.)		
provancheri	Huard	1	2 larvae	
semidea	(Cress.)	1		
Pamphilius luteicornis		1		
(Nort.)				

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<u>PLATYGASTERIDAE</u>	Platygasterids			
Inostemma sp.		1 (N.B.)		
<u>PTEROMALIDAE</u>	Pteromalids			
Amblymerus sp.		4		
Asaphes sp.		7		
Dibrachys cavus Wlk.		7		
Habrocytus sp.		32		
phycidis Ashm.		58		
semotus Wlk.		497		
Pachyneuron sp.		4 (N.B.)		
altiscutum How.		299 (N.B.)		
allograptae Ashm.		28 (N.B.)		
Psychophagus tortricis Brues.		116		
Schizonotus sp.		47		
Tritneptis disprionis Gah.		1 (N.B.)		
Euneura lachni Ashm.		5 (N.B.)		
Mesopolobus sp.		37		
verditer Nort.		3		
Trichomalus sp.		1		
Nasonia sp.		21		
Sceptrothelys deione Wlk.		16		
lividicorpus		5		
<u>SCELIONIDAE</u>	Scelionids			
Telenomus sp.		16		
<u>SIRICIDAE</u>	Horntails			
Sirex cyaneus F.	<u>Blue horntail</u>	20		
juvencus L.	European blue horntail	5		

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<i>Tremex columba</i> Linn.	<u>Pigeon tremex</u>	1 (N.B.)		
<i>Urocerus albicornis</i> F.	Black horntail sawfly	15		
<u>TENTHREDINIDAE</u>				
	Sawflies			
<i>Anoplonyx luteipes</i> Cress.	Marlatt's larch sawfly		2 larvae	
<i>Croesus latitarsus</i> Nort.	<u>Dusky birch sawfly</u>	35	2 larvae, pupae	Larvae, adults (C) Damage (BW)
<i>Dimorphopteryx</i> <i>pinquis</i> Nort.	Wandering sawfly	1		
<i>melanognathus</i> Roh.	Birch-alder sawfly		2 larvae	
<i>Dolerus</i> sp.		20		
<i>Femusa</i> <i>dohrnii</i> Tischb.	<u>European alder leafminer</u>		2 larvae	
<i>pusilla</i> Lep.	<u>Birch leafminer</u>	24	3 larvae, adults	Eggs, larvae adults (C) Damage (C)
<i>ulmi</i> Sund.	<u>Elm leafminer</u>		1 larvae	
<i>Hemichroa crocea</i> Four.	<u>Striped alder sawfly</u>	11	2 larvae	Larvae adults (C)
<i>Heterarthrus nemoratus</i> Fall.	Birch leaf mining sawfly		1 larvae	
<i>Nematus</i> sp.		13		
<i>limbatus</i> Cress.	Willow sawfly	53	2 larvae	
<i>Pikonema</i> <i>alaskensis</i> Roh.	<u>Yellowheaded spruce sawfly</u>	16	4 larvae, pupae	Larvae, adults (C) Damage (C)
<i>dimmockii</i> Cress.	<u>Greenheaded spruce sawfly</u>	22	3 larvae, adults	Larvae, adults (C)
<i>Pristiphora</i> <i>erichsonii</i> Htg.	<u>Larch sawfly</u>	57	6 larvae, pupae, adults	Larvae, adults (C) Damage (BW)

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
geniculata Htg.	<u>Mountain ash sawfly</u>	145	6 larvae, pupae, adults	Larvae (BW) Damage (BW,C)
lena Kinc.	A spruce sawfly		1 larvae	
Tenthredo				
sp. No. 1		1		
sp. No. 2		1		
Tethida cordigera Beauv.	<u>Blackheaded ash sawfly</u>		2 larvae	
Trichiocampus irregularis Dyar	Hairy spotted sawfly		1 larvae	
<u>TORYMIDAE</u>	Torymids			
Megastigmus				
sp.		1		
specularis Wly.		1 (N.S.)		
Torymus sp.		1		
	<u>LEPIDOPTERA</u>			
<u>AEGERIIDAE</u>	Clearwing moths			
Aegeria				
tibialis Harr.	Poplar clearwing moth	1 (Sask.)		
apiformis Cl.	<u>Hornet moth</u>	7		
Albuna pyramidalis Wlk.	Fireweed clearwing moth	3		
<u>AGARISTIDAE</u>	Forester moths			
Alypia langtoni Couper	Fireweed caterpillar	1 (Que.)		
<u>AMATIDAE</u>	Ctenuchas and wasp moths			
Cisseps fulvicollis Hbn.	Hairy caterpillar	2 (Man.)		
<u>ARCTIIDAE</u>	Tiger moths and allies			
Apantesis				
sp.		1		
virgo Linn.		1 (N.B.)		
virguncula Kby.		4		

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<i>Diacrisia virginica</i> Fabr.	<u>Yellow woolly bear</u>	5		Larvae, adults (C)
<i>Halisidota maculata</i> Harr.	<u>Spotted tussock moth</u>	7	3 larvae, pupae	Larvae, adults (C)
<i>Haploa lecontei militaris</i> Harr.	Leconte's haploa	2 (Man., Sask.)		
<i>Hyphantria cunea</i> Dru.	<u>Fall webworm</u>	8	3 larvae	Larvae, adults (C) Damage (BW)
<i>Platarctia parthenos</i> Harr.	St. Lawrence tiger moth	4		Larvae, adults (C)
<u>CITHERONIIDAE</u>	Royal moths			
<i>Anisota virginiensis</i> Dru.	<u>Pinkstriped oakworm</u>	2 (Man.)		
<u>COLEOPHORIDAE</u>	Casebearer moths			
<i>Coleophora</i>				
<i>laricella</i> Hbn.	<u>Larch casebearer</u>	12	2 larvae	
<i>fuscedinella</i> Zell.	<u>Birch casebearer</u>	65	5 larvae	Eggs, larvae, pupae, adults (BW,C) Damage (BW,C)
<i>betulivora</i> McD.			1 larvae	
<i>persimplexella</i> McD.			1 larvae	
<i>cinerella</i> Cham.			1 larvae	
<u>DANAIDAE</u>	Milkweed butterflies			
<i>Danaus plexippus</i> Linn.	<u>Monarch butterfly</u>	2		
<u>DREPANIDAE</u>	Hook-tip moths			
<i>Drepana</i>				
<i>arcuata</i> Wlk.		5	1 larvae	Adults (C)
<i>bilineata</i> Pack.		3		Larvae, adults (C)
<i>Oreta rosea</i> Wlk.		5		

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<u>GELECHIIDAE</u>		Gelechiid moths		
Anacampsis				
sp.		1		
innoculella Zell.	Poplar leaf roller	5	3 larvae, pupae	
Chionodes obscurusella Cham.		1		
Compsolechia				
niveopulvella Cham.		16		
populella Cl.		2		
Eucordylea atrupictella Dietz.	Spruce micro moth	1	1 larvae	
Pulicalvaria piceaella Kft.	Spruce leaf miner		2 larvae	
Filatima demissae Keif.		4		
<u>GEOMETRIDAE</u>		Geometrid moths		
Aethalura anticaria Wlk.		2		
Alsophila pometaria Harr.	<u>Fall cankerworm</u>	3 (Man.)		
Biston cognataria Gn.	<u>Pepper-and-salt moth</u>	13	1 larvae	Larvae, adults (C)
Anacamptodes vellivolata Hlst.		1 (N.B.)		
Anavitrinella pampinaria Gn.	<u>Cranberry spanworm</u>	1 (Sask.)		
Besma quercivoraria Gn.		4		Larvae, adults (C)
Brephos infans Moesch.		2		
Campaea perlata Gn.	Fringed looper	6	2 larvae	Larvae, adults (C)
Caripeta				
angustiorata Wlk.	Brown pine looper	2		Larvae, adults (C)
divisata Wlk.	Grey spruce looper	6	1 larvae	Larvae, adults (C)

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<i>Cingilia catenaria</i> Dru.	<u>Chainspotted geometer</u>	1 (N.S.)		
<i>Cladara atroliturata</i> Wlk.		1		
<i>Cyclophora pendulinaria</i> Gn.		3 (Man., Sask.)		
<i>Deilinia</i>				
<i>erythemaria</i> Gn.		5		
<i>variolaria</i> Gn.		1 (Sask.)		
<i>Deuteronomus magnarius</i> Gn.	Maple spanworm	2 (Sask.)		
<i>Diactinia silaceata</i>		3		
<i>albolineata</i> Pack.				
<i>Dysstroma</i>				
<i>citrata</i> Linn.		2		
<i>truncata</i> Hufn.		1		
<i>Ectropis crepuscularia</i>	Saddleback looper	6	4 larvae, pupae	Larvae, adults (C)
Schiff.				
<i>Ennomos subsignarius</i> Hbn.	<u>Elm spanworm</u>	1		
<i>Eufidonia notataria</i> Wlk.		2 (N.B., N.S.)		
<i>Rheumaptera hastata</i> Linn.	Spear-marked black moth	4		Larvae, adults (C)
<i>Euphyia unangulata intermediata</i> Gn.		6		
<i>Eupithecia</i>				
sp.		3		
<i>filmata</i> Pears.	Early brown looper	2	1 larvae	Larvae, adults (C)
<i>gibsonata</i> Tayl.		1 (Man.)		
<i>luteata</i> Pack.	Fir needle inchworm		1 larvae (N.B.)	
<i>misturata frostiata</i> Swett	Tamarack looper	1 (C.N.C.)		
<i>palpata</i> Pack.	Small pine looper		1 larvae (N.B.)	
<i>russeliata</i> Swett		1		
<i>transcanadata</i> Mack.		1 (N.S.)		
<i>Hydriomena</i>				
<i>furcata</i> Thun.		1		
<i>renunciata</i> Wlk.		2		
<i>Hyperetis amicaria nyssaria</i> Gn.		1		Larvae, adults (C)

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<i>Itame</i>				
<i>anataria</i> Swett		2		
<i>bitactata</i> Wlk.		1		
<i>exauspicata</i> Wlk.		2		
<i>ribearia</i> Fitch	Currant spanworm	2 (Man.)		
<i>loricaria julia</i> Hlst.		3 (Man., Ont.)		
<i>pustularia</i> Gn.	Lesser maple spanworm	1		
<i>Lambdina fiscellaria</i>	<u>Hemlock looper</u>	37	12 eggs, larvae, pupae	Larvae, pupae, Adults (BW,C) Damage (BW,C)
<i>fiscellaria</i> Gn.				
<i>Lycia rachelae</i> Hlst.		1 (Sask.)		
<i>Lygris</i>				
<i>destinata</i> Moesch.		1		
<i>propulsata</i> Wlk.		1		
<i>serrataria</i> B. and Mcd.		3		
<i>Melanolophila</i>				
<i>canadaria</i> Gn.		1 (N.B.)		
<i>signataria</i> Wlk.		1 (N.S.)		
<i>Nematocampa filamentaria</i> Gn.	<u>Filament bearer</u>	2 (N.S., Sask.)		
<i>Nemoria mimosaria</i> Gn.	<u>Flanged looper</u>	1 (Man.)		
<i>Trichodezia albovittata</i> Gn.		3		
<i>Nepytia</i>				
<i>canosaria</i> Wlk.	<u>False hemlock looper</u>	1	2 larvae	
<i>phantasmaria</i> Stkr.	<u>Phantom hemlock looper</u>	4 (B.C., Man.)		
<i>Nyctobia limitaria</i> Wlk.	<u>Green balsam looper</u>	5	2 larvae	Larvae, adults (C)
<i>Operophtera</i>				
<i>bruceata</i> Hlst.	<u>Bruce spanworm</u>	30	3 larvae	Larvae, adults (C) Damage (BW)
<i>brumata</i> Linn.	<u>Winter moth</u>		1 larvae (N.B.)	
<i>Hypagyrtis piniata</i> Pack.	<u>Pine looper</u>	10		
<i>Pero</i>				
<i>honestarius</i> Wlk.		4		
<i>morrisonarius</i> Hy. Edw.		2		Larvae, adults (C)

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<i>Plagodis phlogosaria</i> Gn.		14		
<i>Plemyria georgii</i> Hlst.		3		Larvae, adults (C)
<i>Prochoerodes transversata</i> Dru.	Large maple spanworm	2		
<i>Protitame virginalis</i> Hlst.	Poplar looper	2 (Sask.)		
<i>Protoboarmia porcelaria</i> <i>indicataria</i> Wlk.	Dotted line looper	5	2 larvae	Larvae, adults (C)
<i>Semiothisa</i>				
<i>bisignata</i> Wlk.	White-pine looper	1 (N.B.)		
<i>granitata</i> Gn.	Green spruce looper	5		
<i>mellistrigata</i> Grt.	Willow looper	1 (Sask.)		
<i>neptaria</i> Gn.		1		
<i>neptaria trifasciata</i> Pack.		1 (C.N.C.)		
<i>oweni</i> Swett	Owen green looper	2 (Man., Sask.)		
<i>sexmaculata</i> Pack.	Green larch looper	6	1 larvae	
<i>aemulataria</i> Wlk.		2 (Sask.)		
<i>signaria dispuncta</i> (Wlk.)	Spruce-and-balsam fir looper	1		
<i>Sicya macularia</i> Harr.	Lumpy looper	6		
<i>Spargania</i>				
<i>luctuata obductata</i> Moesch.		1		
<i>magnoliata</i> Gn.		1		
<i>Thera contractata</i> Pack.		1		
<i>Triphosa haesitata</i> Gn.		1		
<i>Venusia cambrica</i> Curt.		1		
<i>Xanthorhoe</i>				
<i>abrasaria congregata</i> Wlk.		1		
<i>munitata</i> Hbn.		1		
<i>Iridopsis larvaria</i> Gn.		2 (N.B., Man.)		
<u>GRACILLARIDAE</u>	Leafblotch miners			
<i>Gracillaria</i>				
<i>alnivorella</i> Cham.	Alder leafminer	3		
<i>syringella</i> Fabr.	<u>Lilac leafminer</u>	1	1 larvae	Damage (C)
<i>Lithocolletis salicifoliella</i> Cham.		1 (N.B.)		
<i>Phyllocnistis populiella</i> Cham.	Aspen leafminer		1 larvae	

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<u>HEPIALIDAE</u>				
Sthenopsis sp.	Hepialid moths	2		
<u>LASIOCAMPIDAE</u>				
Epicnaptera americana Harr.	<u>Lappet moth</u>	2 (Man., Sask.)		Larvae, adults (C)
Malacosoma disstria Hbn.	<u>Forest tent caterpillar</u>	5	2 larvae (Ont.)	
Tolyte laricis Fitch	Larch lappet moth	1 (N.B.)		
<u>LYMANTRIIDAE</u>				
Orgyia antiqua L.	<u>Rusty tussock moth</u>	17	8 eggs, larvae, pupae	Larvae (C)
Porthetria dispar L.	<u>Gypsy moth</u>	2 (Canada)		
Parorgyia plagiata Wlk.	Pine tussock moth	4	2 larvae, pupae	
vagans B. and Mcd.		3		
Stilpnotia salicis Linn.	<u>Satin moth</u>	29	12 eggs, larvae, pupae	Larvae, adults (BW,C) Damage (C)
<u>LYCAENIDAE</u>				
	Blues, coppers, hairstreaks			
Feniseca tarquinius Fabr.	Carnivore caterpillar	1 (N.B.)		
Incisalia nippon clarki Free.	Pine slug caterpillar	3 (Man., Sask.)		
Celastrina lucia Kby.	Spring azure	1		
<u>LYONETIIDAE</u>				
Bucculatrix canadensisella Cham.	<u>Birch skeletonizer</u>	13		

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<u>NOTODONTIDAE</u>		Notodontid moths		
Gluphisia septentrionalis Wlk.		2 (Man., Sask.)		
Ichthyura albosigma Fitch apicalis Wlk.	Red-marked tent maker	4 12		Larvae, adults (C)
Nadata gibbosa J.E. Smith	Green oak caterpillar	5	1 larvae	Larvae (C)
Notodonta simplaria Graef.	Humped caterpillar	3	1 larvae	
Pheosia rimosa Pack.	Caudal-horned prominent	3	2 larvae, pupae	Larvae, adults (C)
Schizura concinna J.E. Smith	<u>Redhumped caterpillar</u>	4 (Man., N.B., Sask.)		
unicornis J.E. Smith	<u>Unicorn caterpillar</u>	4		Larvae, adults (C)
<u>NYCTEOLIDAE</u>				
Nycteola cinereana N. and D.	Poplar leaftier	20	2 larvae	Larvae, adults (C)
frigidana Wlk.	Willow leaftier	1 (Man.)		
<u>NYMPHALIDAE</u>		Brushfooted butterflies		
Limenitis arthemis Dru.	White admiral	2		Larvae, adults (C)
Boloria selene Schiff.		4		
Nymphalis antiopa L.	<u>Mourningcloak butterfly</u>	41	7 larvae, pupae	Larvae, adults (C)
milberti Godt.	Milbert's tortoise shell	1		
Phyciodes tharos Dru.	Pearl crescent	3		
Polygonia faunus Edw. progne Cram.	Green comma Grey comma	4 5		

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
Speyeria atlantis Edw.	Atlantis fritillary	3		
Vanessa atalanta Linn.	<u>Red admiral</u>	1		
cardui Linn.	<u>Painted lady</u>	3		Larvae, adults (C)
<u>OECOPHORIDAE</u>		Oecophorid moths		
Agonopterix sp.		2		
argillacea Wlshn.		1 (Man.)		
Depressaria pastinacella Duponchel	<u>Parsnip webworm</u>	19	2 larvae	
Machimia tentoriferella Clem.		1 (Ont.)		
Psilocorsis sp.		2 (N.S.)		
reflexella Clem.		1 (N.B.)		
cryptolechiella Cham.		1 (N.S.)		
fletcherella Gibs.		1 (N.B.)		
Nites betulella Busck.	Birch leaf roller	1		
groteella Rob.	Hazel leaf roller	12		
<u>OLETHREUTIDAE</u>		Olethreutid moths		
Anchylopera discigerana Wlk.	Yellow birch leafroller	1 (N.S.)		
Aphania capreana Hbn.		1 (Man.)		
dextrana Mcd.		3		
youngana Mcd.		1 (Ont.)		
Badebecia urticana Hbn.		2 (Man.)		
Barbara mappana Free.	Cone moth	1		
Epinotia cruciana Linn.	Willow leaftier	2		
lindana Fern.	Dogwood leafroller	2		
nisella Clerck		2		Larvae, adults (C)

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<i>nisella criddleana</i> Kft.		1 (Sask.)		
<i>rectiplicana</i> Wlsh.		2 (Que.)		
<i>solandriana</i> Linn.	Variable poplar- birch moth	47	1 larvae	Larvae, adults (C)
<i>solicitana</i> Wlk.	Birch shootworm	1 (N.B.)		
<i>criddleana</i> Kft.		2		
<i>transmissana</i> Wlk.	Birch catkin moth	1 (N.B.)		
<i>Eucosma</i> sp.		1		
<i>Exartema</i> sp.		2		
<i>Griselda radicana</i> Wlsh.	Redstriped spruce shoot moth	2		Larvae, adults (C)
<i>Hedia</i>				
<i>ochroleucana</i> Hbn.	Rose leafroller	6		
<i>variegana</i> Hbn.	<u>Green budworm</u>	7		
<i>Petrova albicapitana</i> Busck.	<u>Northern pitch twig moth</u>	2 (N.B., Sask.)		
<i>Rhyacionia buoliana</i> Schiff.	<u>European pine shoot moth</u>	8	1 larvae	Larvae, adults (C)
<i>Sciaphila duplex</i> Wlsh.	Poplar leafroller	9	1 pupae	Larvae, adults (C)
<i>Zeiraphera</i>				
<i>fortunana</i> Kft.	Yellow spruce budworm	18	3 larvae, pupae	
<i>canadensis</i> Mut. and Free.	<u>Spruce bud moth</u>	19	3 larvae, pupae	
<i>improbana</i> Wlk.	Larch needleworm	19	3 larvae, pupae	
<i>Polychrosis piceana</i> Freeman		2		
<u>PAPILIONIDAE</u>	Swallowtail butterflies			
<i>Papilio</i>				
<i>ajax</i> L.		2	2 larvae	
<i>glaucus canadensis</i> R. and J.	Canadian tiger swallowtail	2	4 larvae, pupae	Larvae, pupae, adults (C)

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<u>PERICOPIDAE</u>				
Gnophaela latipennis Bdv.		3 (Sask.)		
<u>NOCTUIDAE</u>				
	Owlet moths and underwings			
Agrochola lota Clerck	Red-line quaker	4 (first Canadian record)		
Acronicta				
clarescens Gn.		1 (N.B.)		
dactylina Grt.	Alder dagger moth	5	2 larvae	Larvae (C)
fragilis Gn.	Fragile dagger moth	1 (N.B.)		
grisea Wlk.	Gray dagger moth	7		Larvae adults (C)
impressa Wlk.		4		Larvae, adults (C)
innotata Gn.	Birch dagger moth	5		Larvae adults (C)
leporina Linn.	Poplar dagger moth	1	1 larvae	Larvae adults (C)
leporina vulpina Grt.		1		
Actebia fennica Tausch.	<u>Black army cutworm</u>	2 (N.B.)		
Agroperina cogitata Sm.		4		
Agrotis				
epsilon Hufn.	<u>Black cutworm</u>	3		
venerabilis Wlk.		2		
Andropolia contacta Wlk.		1		
Anomogyna				
elimata Gn.	Chameleon caterpillar	1	1 larvae	Larvae adults (C)
perquiritata Morr.	Gray spruce cutworm	4	2 larvae	Larvae, adults (C)
Apamea				
alia Gn.		2		
amputatrix Fitch	<u>Yellowheaded cutworm</u>	5		
impulsa Gn.		5		
finitima Gn.		5		
americana Sprey.		5		

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
Autographa				
bimaculata Steph.		5		
mappa G. and R.		2		
pseudogamma Grt.		1		
Caenurgina crassiuscula Haw.	<u>Clover looper</u>	3		
Catocala				
grotiana Bailey		1 (Sask.)		
relicta Wlk.	White underwing	3		
Chytolita petrealis Grt.		1		
Colocasia propinquinella Grt.		1		
Diarsia				
cynica Sm.		5		
jucunda Wlk.		3		
Elaphria versicolor Grt.	Fir harlequin	2 (N.B.)		
Energia				
decolor Wlk.	Aspen twinleaf tier	1 (Sask.)		
infumata Grt.		3		
Epizeuxis				
sp.		1		
aemula Hbn.	Spruce epizeuxis	3 (Man., N.B., Sask.)		Larvae, adults (C)
americana Gn.		2 (N.B., Sask.)		
Eueretagrotis perattenta Grt.		5		
Euplexia benesimilis McD.		1		
Eurois				
astricta Morr.		8		
occulta Linn.		2		Larvae, adults (C)
Euxoa				
ochrogaster Gn.	<u>Redbacked cutworm</u>	1		
Feralia				
jocosa Gn.	Redmarked caterpillar	2	2 larvae	Larvae, adults (C)
Amathes				
c-nigrum Linn.	<u>Spotted cutworm</u>	5		
smithi Snell.		5		

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
Lithophane				
amanda Sm.		3		
bethunei G. and R.		1 (Man.)		
disposita Morr.		2 (Man.)		
georgii Grt.		5		
innominata Sm.		1 (Man.)		
pexata Grt.		2		
thaxteri Grt.		3		
Homoglaea hircina Morr.	Goat swallow	1 (Sask.)		
Hyppa xylinoides Gn.	Common hyppa	5		
Lacinipolia				
lorea Gn.		1		
olivacea Morr.		5		
renigera Steph.	<u>Bristly cutworm</u>	4		
anguina Grt.		2		
Leucania				
albilinea Hbn.		5		
insueta Gn.		5		
luteopallens Sm.		5		
Lomanaltes eductalis Wlk.	Alder caterpillar	3 (Man.)		
Minotype ducta Grt.		6		
Orthosia				
hibisci Gn.		4		
revicta Morr.		2		
Palthis angulalis Hbn.	Spruce harlequin	5		
Panthea acronyctoides Wlk.	Tufted spruce caterpillar	5		
Parallelia bistriaris Hbn.	Maple caterpillar	1 (Ont.)		
Phlogophora				
iris Gn.		5		
periculosa Gn.		5		
Polia				
atlantica Grt.		5		
frustrata Med.		3		
imbrifera Gn.		4		
legitima Grt.	<u>Striped garden caterpillar</u>	4		
lutra Gn.		1		
pulverulenta Sm.		1		

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
radix Wlk.		5		
Oligia				
bridghami G. and R.		1		
miniscula Morr.		2		
Pyrrhia				
exprimens Wlk.	Variable caterpillar	4		
Scoliopteryx libatrix Linn.	Herald moth	10	2 larvae	Larvae, adults (C)
Sideridis maryx Gn.		1		
Spaetotis clandestina Harr.	<u>W-marked cutworm</u>	7		
Syngrapha				
alias Ottol.	Spruce climbing cutworm	9	2 larvae	
epigaea Grt.		1		
rectangula Kby.	Angulated cutworm	7	1 larvae	
selecta Wlk.	Verdigris autograph	9	2 larvae	Larvae, adults (C)
Zale duplicata largera Sm.	Pine false looper	5 (Sask.)		
Zanclognatha protumnusalis Wlk.		1 (N.B.)		
Ipimorpha pleonectusa Grt.	Blackcheeked aspen caterpillar	5		Larvae, adults (C)
Amphipoea velata Wlk.		1		
Nephelodes emmedonia Cram.	Bronzed cutworm	6		
Xanthia lutea Strom.	Pink barred-sallow	1 (Sask.)		
Pseudaletia unipuncta Haw.	<u>Armyworm</u>	1		
Harrisimemna trisignata Wlk.	Harris three-spot	1 (C.N.C.)		
Hypocoena inquinata Gn.		1		
Metalepsis salicarum Wlk.		1		
Ochropleura plecta L.	Flameshouldered dart	5		
Rivula propinqualis Gn.		1		
Hemipacknobla monochromatea Morr.		2		
<u>PIERIDAE</u>	Whites and sulphur butterflies			
Colias philodice L.	<u>Clouded sulphur</u>	4		
Pieris rapae Linn.	<u>Imported cabbageworm</u>	2		

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<u>PLUTELLIDAE</u>				
Harpiteryx xylostella Linn.	<u>European honeysuckle leafroller</u>	14	2 larvae, pupae	
<u>PSYCHIDAE</u>				
Bagworm moths				
Solenobia walshella Clem.			1 larvae	
<u>PYRALIDAE</u>				
Pyralid moths				
Acrobasis				
betulella Hlst.	<u>Birch tubemaker</u>	4 (Man., N.B.)		
rubrifasciella Pack.	<u>Alder tubemaker</u>	14 (Man., N.B., N.S.)		
Crambus				
alboclavellus Zell.		3		
innotatellus Wlk.		6		
Dioryctria				
abietivorella Grt.	<u>Fir coneworm</u>	3		
reniculelloides Mut. & Mun.	<u>Spruce coneworm</u>	21	4 larvae, pupae	Larvae, adults (C)
Herculia thymetusalis Wlk.	<u>Spruce needleworm</u>	6	2 larvae	
Ortholepis pasadamia Dyar	<u>Birch micro moth</u>	14	2 larvae	Larvae, adults (C)
Meroptera sp.				
Phlyctaenia				
mysippusalis Wlk.		1		
sambucalis Schiff.	<u>Elderberry micro moth</u>	1		
Plodia interpunctella Hbn.	<u>Indian meal moth</u>	2		
Anania funebris glomerata Wlk.		1		
Scoparia centuriella D. and S.		4		
Paraponyx obscuralis Grt.		1 (Man.)		
<u>SATYRIDAE</u>				
Satyr butterflies				
Coenonympha inornata Edw.	<u>Inornate ringlet</u>	8		
<u>SPHINGIDAE</u>				
Sphinx moths				

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<i>Celerio gallii intermedia</i> Kby.	Bedstraw hawk-moth	3	1 larvae	Larvae, adults (C)
<i>Ceratomia undulosa</i> Wlk.	Waved sphinx	1 (Sask.)		
<i>Hemaris thysbe</i> Fab.	Hummingbird clear-wing sphinx	3		
<i>Proserpinus flavofasciata</i> Wlk.		1		
<i>Smerinthus cerisyi</i> Kby.	Poplar and willow hornworm	3		
<i>jamaicensis</i> Dru.	Twin spotted sphinx	3		
<i>germinatus</i> Say		3		
Sphinx				
<i>gordius</i> Cram.	Apple sphinx	2	1 pupae	
<i>kalmiae</i> J.E. Smith	Laurel sphinx	1	1 larvae	
<i>Herse cingulata</i> Fabr.		1		
<u>STENOMIDAE</u>				
<i>Stenoma algidella</i> Wlk.	Stenomid moths	1 (N.B.)		
<u>THYATIRIDAE</u>				
<i>Habrosyne scripta</i> Gosse	False owlet moth	5		
<i>Pseudothyatira cymatophoroides</i> Gn.	Birch-and-alder caterpillar	2		
<u>TORTRICIDAE</u>				
<i>Acleris</i>	Leafroller moths			
<i>calignosana</i> Wlk.		3		
<i>emargana</i> Fabr.		3		
<i>fuscana</i> B. and B.		1 (Man.)		
<i>nigrolinea</i> Rob.		1 (Man.)		
<i>variana</i> Fern.	<u>Eastern blackheaded budworm</u>	61	3 larvae, pupae	Larvae, adults (C) Damage (BW,C)
<i>Amoria humerosana</i> Clem.	Dusky leafroller	1 (N.S.)		
<i>Archips</i>				
<i>argyrospilus</i> Wlk.	<u>Fruittree leafroller</u>	3 (Ont., Sask.)		
<i>cerasivoranus</i> Fitch	<u>Uglynest caterpillar</u>	21 (Man., N.B.)		
<i>fervidanus</i> Clem.	<u>Oak webworm</u>	5 (Man., N.S.)		
<i>negundana</i> Dyar		5 (Man., Sask.)		

Cont'd ...

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
rosanus Linn.	European leafroller	25	1 larvae	
myricana McD.		6		
<i>Argyrotaenia</i>				
mariana Fern.	<u>Graybanded leafroller</u>	1 (N.B.)		
tabulana Free.	Jack pine tube moth	3 (Sask.)		
velutinana Wlk.	<u>Redbanded leafroller</u>	2 (N.B.)		
<i>Croesia</i>				
semipurpurana Kft.	Oak leaf shredder	2 (N.B.)		
forskaleana Linn.		3		
<i>Choristoneura</i>				
fumiferana Clem.	<u>Spruce budworm</u>	26	9 eggs, larvae, pupae	Larvae, pupae, adults (C) Damage (BW,C)
pinus Free.	<u>Jack pine budworm</u>	3 (Man.)		
conflictana Wlk.	<u>Large aspen tortrix</u>	6	2 larvae, pupae	Larvae, adults (C)
rosaceana Harr.	<u>Obliquebanded leafroller</u>	4 (Man., N.B., Sask.)		
<i>Pandemis canadana</i> Kft.		4 (Man., Ont., Sask.)		
<i>Sparganothis</i>				
directana Wlk.	Cherry leafroller	2 (Man., Sask.)		
sulfureana Clem.		1 (N.B.)		
tristriata Kft.		2 (Sask.)		
<i>Archippus</i>				
albertus McD.		4		
packardianus Fern.	Spring spruce needle moth	4 (Man., N.B.)		
strianus Fern.	Lined spruce needle moth	2		
<i>Clepsis persicana</i> Fitch	Whitetrangle leafroller	7		
<u>YPONOMEUTIDAE</u>	<u>Ermine moths</u>			
<i>Argyresthia</i>				
sp.		1		
thuiella Pack.	<u>Arborvitae leafminer</u>	1 (N.B.)		
<i>Ocnerostoma strobivora</i> Free.	<u>White pine needleminer</u>	5		

Species	Common name	No. specimens and source	No. vials preserved material	Photographs
<u>NEUROPTERA</u>				
<u>CHRYSOPIDAE</u>				
	Green lacewings			
Chrysopa				
sp.		91 (N.B.)		
plorabunda Fitch		4		
<u>HEMEROBLIDAE</u>				
	Brown lacewings			
Hemerobius				
sp.		110 (N.B.)		
humulinus L.		1 (N.B.)		
simulans Wlk.		3 (N.B.)		
stigmaterus Fitch		13 (N.B.)		
Micromus angulatus Steph.		1 (N.B.)		
Wesmaelius longifrons Wlk.		4 (N.B.)		
<u>ORTHOPTERA</u>				
<u>ACRIDIDAE</u>				
	Grasshoppers			
Chorthippus curtipennis Harr.	Marsh meadow grasshopper	25		
Melanoplus fasciatus Wlk.	Huckleberry grasshopper	11		
Dissosteira carolina (L.)	Carolina grasshopper	7 (N.S.)		
<u>TETTIGONIIDAE</u>				
	Longhorn grasshoppers and katydids			
Ceuthophilus				
sp.		11		
brevipes Seud.		5		
<u>GRYLLIDAE</u>				
	Crickets			
Gryllus assimilis Fab.		2		
Nemobius fasciatus Deg.		3		
<u>BLATTIDAE</u>				
	Cockroaches			
Blatta orientalis L.	<u>Oriental cockroach</u>	2		

Cont'd ...