

THE INSECT COLLECTION OF THE FOREST INSECT AND DISEASE SURVEY  
IN MANITOBA AND SASKATCHEWAN

PART I - LEPIDOPTERA

by

J.C.E. Melvin, D.W. Murray, J. Harding and H.R. Wong

FOREST RESEARCH LABORATORY

WINNIPEG, MANITOBA

INFORMATION REPORT MS-X-22

DECEMBER 1969

## TABLE OF CONTENTS

	<u>Page</u>
1. INTRODUCTION	1
2. HISTORY AND DESCRIPTION OF THE COLLECTION	1
3. REFERENCES	2
4. INVENTORY OF LEPIDOPTERA	3

## INTRODUCTION

An essential part of any insect survey is an adequate insect reference collection, which will assist in determining the variation, distribution, hosts, parasites, predators, seasonal occurrence damage and density of the more common insects in a region. Like the other laboratories conducting forest insect and disease surveys across Canada, the Winnipeg laboratory maintains a collection of insects found in the forest region and shelter-belt areas of Manitoba and Saskatchewan.

The purpose of this report is to indicate to people, who may be interested in the exchange or loan of material, the species of insects in the Winnipeg reference collection, and to supplement the lists of insects registered in the Fredericton and Sault Ste. Marie laboratories.

The first part of the inventory of the insects in the Winnipeg reference collection will deal with the adults and inflated or preserved larvae of Lepidoptera, with future reports on other major groups of insects.

## HISTORY AND DESCRIPTION OF THE COLLECTION

From a few Schmidt boxes of reference material brought from Ottawa when the Winnipeg laboratory was established in 1941, the reference collection has expanded to include 12 wooden museum cabinets housing 140 United States museum drawers of adults and inflated larvae, and two double-door metal storage cabinets containing racks of preserved larvae. The increase in reference material resulted from determinations by specialists of mature and immature insects collected in Manitoba and Saskatchewan since 1941, northern Ontario until 1944, and Alberta until 1948. This was augmented by the addition in 1954 of part of the Indian Head, Saskatchewan collection when the Forest Insect Survey function in the agricultural area was consolidated at Calgary and Winnipeg, and through exchange and request of material from other laboratories. Those species found only in Manitoba and Saskatchewan may be readily determined by consulting the Forest Lepidoptera of Canada Recorded by the Forest Insect Survey (McGugan, 1958 and Prentice, 1962, 1963, 1965).

The systematic arrangement of the species of Lepidoptera in the Winnipeg reference collection follows McDunnough (1938, 1939).

## REFERENCES

- McDunnough, J. 1938-1939. Check list of the Lepidoptera of Canada and the United States of America. S. California Acad. Sci. Mem. Part 1 (1938) Macrolepidoptera, 274 pp. Part 2 (1939) Macrolepidoptera, 171 pp.
- McGugan, B.M. (Compiler) 1958. Forest Lepidoptera of Canada recorded by the Forest Insect Survey Vol. 1. Papilionidae to Arctiidae. Publ. Dept. Agric. Can. No. 1034, 75 pp.
- Prentice, R.M. (Compiler) 1962. Forest Lepidoptera of Canada recorded by the Forest Insect Survey Vol. 2. Bull. Dept. For. Can. No. 128: 77-281.
- Prentice, R.M. (Compiler) 1963. Forest Lepidoptera of Canada recorded by the Forest Insect Survey Vol. 3 Publ. Dept. For. Can. No. 1013: 283-543.
- Prentice, R.M. (Compiler) 1965. Forest Lepidoptera of Canada recorded by the Forest Insect Survey Vol. 4. Publ. Dept. For. Can. No. 1142: 546-840.

Lepidoptera Collection  
Manitoba-Saskatchewan Region

	<u>No. of adults</u>	<u>No. of inflated larvae</u>	<u>No. of vials of preserved material*</u>
<b>AEGERIIDAE</b>			
<i>Aegeria exitiosa</i> Say.	1		
<i>tibialis</i> Harr.	18		2L
sp.	3		
<i>Albuna pyramidalis</i> Hy. Edw.	5		
<i>Podosesia syringae fraxini</i> Lugger	8	1	
<i>Synanthedon albicornis</i> Hy. Edw.	5		
<i>bolteri</i> Hy. Edw.	9		
<i>pictipes</i> G. & R.	21		2L
<i>Vespaemia tricincta</i> Harr.	2		
<b>AGARISTIDAE</b>			
<i>Alypia octomaculata</i> Fabr.	1	1	
<i>langtoni</i> Coup.	3		
<i>Androloma maccullochi</i> Kby.	2		
<b>ALUCITIDAE</b>			
<i>Alucita huebneri</i> Wall.	7		
<b>AMATIDAE</b>			
<i>Ctenucha virginica</i> Charp.	7	1	1L
<i>Scepsis fulvicollis</i> Hbn.	13		
<b>ARCTIIDAE</b>			
<i>Apantesis blackei</i> Grt.	1		
<i>celia</i> Saund.	1		
<i>parthenice</i> Kby.	8		
<i>turbans</i> Christ.	11		1L
<i>virgo</i> L.	13		
<i>virguncula</i> Kby.	1		
<i>williamsii</i> Dodge	13		
<i>Arctia caja</i> L.	8	1	1L
<i>Clemensia albata</i> Pack.	13		
<i>Crambidia casta</i> Pack.	2		
<i>Diacrisia virginica</i> Fabr.	16	2	11L

\*Values in this column refers to the number of vials of L(larvae), E(eggs) and P(pupae) in the wet reference collection.

	<u>No. of adults</u>	<u>No. of inflated larvae</u>	<u>No. of preserved material*</u>
<i>Estigmene acrea</i> Dru.	7		1L
<i>congrua</i> Wlk.	6		
<i>Ethmia fuscipedella</i> Wlshm.	5		
<i>Eubaphe aurantiaca</i> Hbn.	11		
<i>ferruginosa</i> Wlk.	9		
<i>treatii</i> Grt.	5		
<i>trimaculosa</i> Reak.	1		
sp.	1		
<i>Euchaetias oregonensis</i> Stretch	2		
<i>Halisidota argentata</i> Pack.	3		
<i>maculata</i> Harr.	20	2	11L
<i>tessellaris</i> A. & S.	3		
<i>Haploa confusa</i> Lym.	7		
<i>lecontei</i> Guer.	9		
<i>lecontei militaris</i> Harv.	4		
<i>vestalis</i> Pack.	1		
<i>Holomelina lamae</i> Free.	5		
<i>Hyphantria cunea</i> Dru.	32	1	11P
<i>Hyproprepia fucosa</i> Hbn.	6		
<i>miniata</i> Kby.	17		
<i>Isia isabella</i> A. & S.	5	1	
<i>Lexis bicolor</i> Grt.	15	2	1L
<i>Nemeophila plantaginis scudderi</i> Pack.	1		
<i>Parasemia parthenos</i> Harr.	4		
<i>Phragmatobia assimilans</i> Wlk.	5	1	
<i>fuliginosa rubricosa</i> Harn.	2		
BLASTOBASIDAE			
<i>Holcocera immaculella</i> McD.	11		
CARPOSINIDAE			
<i>Carposina comonana</i> Kft.	23		5P
sp.	11		
CITHERONIIDAE			
<i>Anisota manitobensis</i> McD.	2		1L
<i>rubicunda</i> Fabr.	2	1	
<i>senatoria</i> J.E. Smith	4		
<i>virginiensis</i> Dru.	28	3	3L
COLEOPHORIDAE			
<i>Coleophora eleagnisella</i> Kft.	1		2L
<i>fletcherella</i> Fern.	1		
<i>laricella</i> Hbn.	2		
<i>rosaefoliella</i> Clem.	1		
sp.	2		1L

	<u>No. of adults</u>	<u>No. of inflated larvae</u>	<u>No. of vials of preserved material*</u>
COSMOPTERYGIDAE			
<i>Batrachedra praeangusta</i> Haw.	2		
<i>Mompha claudiella</i> Kft.	1		
<i>Walshia amorphella</i> Clem.	2		
COSSIDAE			
<i>Acosus centerensis</i> Lint.	5		2L
sp.	1		
<i>Prionoxystus robiniae</i> Peck.	8	1	4L
DANAIDAE			
<i>Danaus plexippus</i> L.	4	1	3L
DREPANIDAE			
<i>Drepana arcuata</i> Wlk.	9		2L
<i>bilineata</i> Pack.	2		
<i>bilineata levis</i> Hud.	8		
<i>Eudeilinia herminiata</i> Gn.	6		
<i>Oreta rosea</i> Wlk.	3		
<i>rosea irrorata</i> Pack.	1		
EPERMENIIDAE			
<i>Epermenia albapunctella</i> Busck.	5		1L
EPIPLEMIDAE			
<i>Callizzia amorata</i> Pack.	1		
ETHMIIDAE			
<i>Ethmia coloradella</i> Wlshn.	3		
GELECHIIDAE			
<i>Anacampsis innocuella</i> Zell.	19	1	3L
<i>niveopulvella</i> Cham.	39		5L
<i>rhoifruetella</i> Clem.	2		
<i>Aristotelia roseosuffusella</i> Clem.	4		
<i>Chionodes</i> sp.	3		
<i>obscurusella</i> Cham.	3		
<i>terminimaculella</i> Kft.	15		
<i>vernella</i> Murt.	2	1	
<i>Dichomeris ligulella</i> Hbn.	16	1	
<i>Eucordylea atrupictella</i> Dietz.	1		
<i>Gelechia</i> sp.	2		
<i>lynceella</i> Zell.	5		
<i>mediofuscella</i> Clem.	1		
<i>Gnorimoschema gallaesolidaginis</i> Riley	1		
<i>Gelechiid</i> sp.	75	2	1L
<i>Pulicalvaria</i> sp.	8		1L
<i>Recurvaria</i> sp.	10		3L

	<u>No. of adults</u>	<u>No. of inflated larvae</u>	<u>No. of vials of preserved material*</u>
Telphusa sp.	15		
sp. poss. bicosstomaculella Cham.	1		
belangerella Cham.	7		
Trichotaphe flavocostella Clem.	1		
Xenolechia velatella Busck.	5		
GEOMETRIDAE			
Abbottana clemataria J.E. Smith	12	1	
Aethalura anticaria Wlk.	4		
Alsophila pometaria Harr.	126	2	14E & P
Anacamptodes ephyraria Wlk.	27		2L
humaria Gn.	1		
vellivolata Hlst.	19	1	4L
Anagoga occiduaria Wlk.	5		
pulveraria Linn.	4		
Anavitrinella larvaria Gn.	18	1	2L
pampinaria Gn.	12		
Apaecasia detersata Gn.	2		
subaequaria Wlk.	2		
Aspilates orciferaria Wlk.	1		
Bapta semiclarata Wlk.	4	1	
vestaliata Gn.	2		
Besma endropiaria G. & R.	2		
quercivorarai Gn.	15	1	1L
Biston cognataria Gn.	15	2	7P
Brephos infans Moesch.	6		
Campaea perlata Gn.	18	1	12L
Caripeta angustiorata Wlk.	7		2L
divisata Wlk.	9		1L
piniata Pack.	6		1L
Carsia paludata columbiata McD.	6		
Cheteoscelia bistriaria Pack.	1		
Chlorochlamys chloroleucaria Gn.	2		
Cingilia catenaria Dru.	3		
Cosymbia pendulinaria Gn.	21	1	5L
Deilinia erythemaria Gn.	28	1	2L
variolaria Gn.	33		3L
Deuteronomus magnaria Gn.	27	1	5E
Dysstroma citrata L.	2		
transversata Kell.	1		
truncata Hufn.	1		2L
walkerata Pears.	1		
Ectropis crepuscularia Schiff.	43	2	5L
Ennomos subsignarius Hbn.	5		
Enypia moillieti Blkmre	1		
venata Grt.	1		2L
Epirrhoe tristata Linn.	1		
Epirrita autumnata Gn.	1		
autumnata henshawi Swett.	1		1L



	<u>No. of adults</u>	<u>No. of inflated larvae</u>	<u>No. of vials of preserved material*</u>
<i>Erannis tiliaria</i> Harr.	18	3	5L
<i>Euchlaena effecta</i> Wlk.	1		
<i>johnsonaria</i> Fitch.	5		
<i>marginata</i> Minot	1		1L
<i>obtusaria</i> Hbn.	2		
<i>tigrinaria sinenaria</i> Stkr.	9		3P
<i>Eudule mendica</i> Wlk.	8		1L
<i>Eufidonia discospilata</i> Wlk.	5		3L
<i>notataria</i> Wlk.	23	2	2L
<i>Eugonobapta nivosaria</i> Gn.	1		
<i>Euphyia multiferata</i> Wlk.	2		
<i>unangulata intermediata</i> Haw.	4		
<i>Eupithecia</i> sp.	5		3P
<i>arceuthata</i> Frey.	4		1L
<i>castigata</i> Hbn.	4		1L
<i>coagulata</i> Gn.	2		1L
<i>columbiata</i> Dyar	2		
<i>columbiata erpata</i> Pears.	1		
<i>cretacea</i> Pack.	1		
<i>filmata</i> Pears.	21	3	5L
<i>fletcherata</i> Tayl.	7		2L
<i>gelidata</i> Moesch.	7		1L
<i>gerinata</i> Pack.	1		2L
<i>gibsonata</i> Tayl.	29		
<i>luteata</i> Pack.	29		3L
<i>misturata frostiata</i> Swett.	2		
<i>nimbicolor</i> Hlst.	1		
<i>palpata</i> Pack.	5	2	4L
<i>perfusca alberta</i> Tayl.	2		
<i>perfusca youngata</i> Tayl.	9		
<i>placidata</i> Pack.	1		
<i>ravocostaliata</i> Pack.	7	1	1L
<i>sobrinata</i> Hbn.	3		10L
<i>sobrinata interruptofasciata</i> Pack.	1	1	
<i>transcanadata</i> Mack.	14		
<i>Gabriola dyari</i> Tayl.	3		
<i>Haematopis grataria</i> Fabr.	7		
<i>Hesperumia sulphuraria</i> Pack.	5	2	1L
<i>Homochlodes fritillaria</i> Gn.	3		
<i>Hormisa absorptalis</i> Wlk.	2		
<i>intestinata</i> Gn.	1		
<i>Hydrelia albifera</i> Wlk.	8		
<i>inornata</i> Hlst.	4		
<i>Hydria</i> sp.	1		
<i>undulata</i> L.	5	1	
<i>Hydriomena</i> sp.	1		1L
<i>divisaria</i> Wlk.	10	1	1L
<i>furcata</i> Thun.	16		4L
<i>manitobae</i> B. & McD.	2		
<i>renunciata</i> Wlk.	5		
<i>ruberata</i> Frey.	2		1L

	No. of adults	No. of inflated larvae	No. of vials of preserved material*
<i>Hypagyrtis nubecularia</i> Gn.	19		
<i>piniata</i> Pack.	22	3	4L
<i>subatomaria</i> Wood.	4		2L
<i>Hyperetis amicaria</i> H.-S.	24	1	3L
<i>Itame andersoni amboflava</i> Ferg.	1		
<i>argillacearia</i> Pack.		1	
<i>bitactata</i> Wlk.	4		
<i>bitactata epigenata</i> B. & McD.	1		
<i>coortaria enigmata</i> B. & McD.	2		
<i>evagaria</i> Hlst.	2		
<i>exauspicata</i> Wlk.	16	1	
<i>fulvaria</i> Vill.	1		
<i>loricaria julia</i> Hlst.	21	2	5L
<i>occiduaria</i> Pack.	5		
<i>ribearia</i> Fitch.	6		3L
<i>ribearia fascioferaria</i> Hlst.	9		
<i>sulphurea</i> Pack.	2		
<i>Lambdina fiscellaria fiscellaria</i> Gn.	23	1	10L
<i>fiscellaria lugubrosa</i> Hlst.	3		
<i>somniaria</i> Hlst.	3		
<i>Leucobrephos brephoides</i> Wlk.	2		1L
<i>Lobophora nivigerata</i> Wlk.	14		7L
<i>Lycia ursaria</i> Wlk.	4	1	2L
<i>Lygris destinata</i> Moesch.	2		7L
<i>destinata unicolorata</i> McD.	4	1	
<i>diversilineata</i> Hbn.	1		
<i>explanata</i> Wlk.	2		
<i>flavibrunneata</i> McD.	5		
<i>propulsata</i> Wlk.	1		
<i>testata</i> L.	9		4L
<i>xylina</i> Hlst.	1		
<i>xylina speciosa</i> Hlst.	2		
<i>Melanolophia</i> sp.			13L
<i>canadaria</i> Gn.	8	1	8L
<i>imitata</i> Wlk.	3		
<i>signataria</i> Wlk.	4		
<i>Mesoleuca ruficillata</i> Gn.	3		
<i>Mesothea incertata</i> Wlk.	6		
<i>Metanema determinata</i> Wlk.	5		
<i>inatomaria</i> Gn.	20		
<i>Metarranthis duaria</i> Gn.	1		
<i>duaria septentrionaria</i> B. & McD.	3		
<i>hypocharia</i> H.-S.	1		
<i>refractaria</i> Gn.	1		
<i>Nematocampa filamentaria</i> Gn.	25	1	1L
<i>Nemoria mimosaria</i> Gn.	17	1	1L
<i>Neocalcis californiaria</i> Pack.	5		
<i>Nepytia canosaria</i> Wlk.	27	5	3L
<i>phantasmaria</i> Skr.	13		

	No. of adults	No. of inflated larvae	No. of vials of preserved material*	
<i>Nyctarosea obstipata</i> Fabr.	1			
<i>Nyctobia limitaria</i> Wlk.	2	8	1L	
<i>Operophtera bruceata</i> Hlst.	26		3L	
<i>Orthofidonia tinctaria</i> Wlk.	1			
<i>Paleacrita vernata</i> Peck	8	1	2L	
<i>Pero</i> sp.	1			
<i>honestarius</i> Wlk.	3			
<i>morrisonarius</i> Hy. Edw.	4	1	1L	
<i>occidentalis</i> Hlst.	1			
<i>Phaeoura quernaria</i> J.E. Smith	2		1L	
<i>Phigalia titea</i> Cram.	7	3	1L	
<i>Physostegania pustularia</i> Gn.	1			
<i>Plagodis alcoolaria</i> Gn.	13	4	1L	
<i>approximaria</i> Dyar	14		1L	
<i>phlogosaria</i> <i>phlogosaria</i> Gn.	1			
<i>Plemyria georgii</i> Hlst.	10			
<i>Poecilopis rachelae</i> Hlst.	28			
<i>Prochoerodes transversata</i> Dru.	13	2	1L	1P
<i>Protitame virginalis</i> Hlst.	8			
<i>Protoboarmia porcelaria indicataria</i> Wlk.	31	2		
<i>Rheumaptera</i> sp.	1			
<i>albodecorata stygiata</i> McD.	1			
<i>hastata</i> Linn.	21		1L	
<i>Scopula enucleata</i> Gn.	2			
<i>enucleata adornata</i> Prout.	2			
<i>inductata</i> Gn.	3			
<i>junctaria</i> Wlk.	4			
<i>Selenia kentaria</i> G. & R.	4			
<i>Semiothisa aemulataria</i> Wlk.	24		1L	
<i>bicolorata</i> Fabr.	8		7L	1P
<i>bisignata</i> Wlk.	1			
<i>denticulata</i> Grt.	1			
<i>hebetata</i> Hlst.	6		1L	
<i>hebetata</i> f. <i>ponderosa</i> B. & McD.	7			
<i>mellistrigata</i> Grt.	16			
<i>minorata</i> Pack.	1			
<i>orillata</i> Wlk.	2	1		
<i>oweni</i> Swett.	7	1		
<i>sexmaculata</i> Pack.	21	2	14L	
<i>signaria dispuncta</i> (Wlk.)	21	1	4L	
<i>Sicya macularia</i> Harr.	15			
<i>Synaxis pallulata</i> Hlst.	1			
<i>Synchlora aerata</i> Fabr.	2			
<i>Tetracis cachexiata</i> Gn.	13	2	1L	
<i>crocallata aspilatata</i> Gn.	2			
<i>Thallopgha hyperborea</i> Hlst.	1			
<i>Thera contracta</i> Pack.	6	2	5L	
<i>otisi</i> Dyar	3			

	No. of <u>adults</u>	No. of <u>inflated larvae</u>	No. of vials of preserved <u>material*</u>
<i>Triphosa haesitata</i> Gn.	3		
<i>haesitata affirmaria</i> Wlk.	2		
<i>Venusia comptaria</i> Wlk.	1		
<i>pearsalli</i> Dyar	1		
<i>Xanthorhoe abrasaria congregata</i> Wlk.	1		
<i>designata</i> Hufn.	2		
<i>ferrugata</i> Clerk.	3		
<i>lacustrata</i> Gn.	2		
<i>munitata</i> Hbn.	1		
<i>Xanthotype</i> sp.	1		
<i>sospeta</i> Dru.	6		
<i>Zenophleps</i> sp.	1		
GLYPHIPTERYGIDAE			
<i>Allononyma diana</i> Hbn.	7		
<i>vicarialis</i> Zell.	3		
GRACILLARIDAE			
<i>Gracillaria</i> sp.	16		
<i>alnivorella</i> Cham.	1		
<i>invariabilis</i> Braun.	1		
<i>negundella</i> Cham.	13		1L
<i>rhoifoliella</i> Cham.	2		
<i>Lithocolletis salicifoliella</i> Chamb.	42		2L
<i>Phyllocnistis populiella</i> Chamb.	1		
HEPIALIDAE			
<i>Hepialus hyperboreus</i> Moesch	7		
<i>Sthenopis argenteomaculatus</i> Harr.	2		
<i>quadriguttatus</i> Grt.	3	1	
HESPERIIDAE			
<i>Atrytone ruricola</i> Bdv.	1		
<i>Caterocephalus palaemon</i> Pall.	2		
<i>Epargyreus tityrus</i> Fabr.	2		
<i>Erynnis icelus</i> Scud. & Burg.	9		
<i>juvenalis</i> Fabr.	1		
<i>Hesperia comma assiniboia</i> Lym.	1		
<i>uncas</i> Edw.	1		
<i>Oarisma garita</i> Reak.	1		
<i>Pholisora catullus</i> Fabr.		1	
<i>Poanes hobomok</i> Harr.	1		
<i>Pyrgus communis</i> Grt.	1		
<i>Thorybes pylades</i> Scud.	2		

No. of    No. of vials  
No. of inflated of preserved  
adults larvae material\*

## LASIOCAMPIDAE

<i>Epicnaptera americana</i> Harr.	2	1	1L	1E
<i>Malacosoma americanum</i> F.	34	1	79L	
<i>californicum lutescens</i> (N. & D.)	228	25	162L	1E
<i>californicum pluviale</i> (Dyar)	80	3	108L	
<i>disstria</i> Hbn.	201	4	304L	
<i>Tolyte laricis</i> Fitch	7		1L	

## LIMACODIDAE

<i>Lithacodes fasciola</i> H.-S.	2			
<i>Tortricidia flexuosa</i> Grt.	4			
<i>testacea</i> Pack.	1			

## LYCAENIDAE

<i>Everes amynula</i> Bdv.	1			
<i>Feniseca tarquinius</i> Fabr.	1			
<i>Glaucopsyche lygdamus</i> Edw.	4			
<i>lygdamus cooperi</i> Grt.	1			
<i>Incisalia eryphon</i> Bdv.	1			
<i>niphon clarki</i> Free.	14	1	1L	1P
<i>polios</i> C. & W.	2		1L	
<i>Lycaena helloides</i> Bdv.	2			
<i>Lycaenopsis argiolus pseudargiolus</i> B. & L.	1			
<i>pseudargiolus</i> B. & L.	4			
<i>pseudargiolus marginata</i> Edw.	2			
<i>Plebeius scudderii</i> Edw.	1			
<i>Strymon acadia</i> Edw.	2			
<i>acadia muskoka</i> Wats. & Comst.	3			
<i>falacer</i> Godt.	4			
<i>liparops</i> B. & L.	6		1L	
<i>titus</i> Fabr.	1			

## LYMANTRIIDAE

<i>Orygia antiqua</i>	36	1	5L	3E	2P
<i>leucostigma</i> J.E. Smith	13	1		2E	
<i>Parorygia plagiata</i> Wlk.	9	2	14L	2E	1P
<i>vagans</i> B. & McD.	7	2	3L		
<i>Stilpnotia salicis</i> Linn.	3		1L		

## LYONETIIDAE

<i>Bedellia</i> sp.			1L		
<i>somnulentella</i> Zell.	2		1L		
<i>Bucculatrix canadensisella</i> Cham.	8		2L		

	No. of	No. of	
	inflated	of vials	
	adults	larvae	preserved
			material*

## NOCTUIDAE

<i>Abagrotis placida</i> Grt.	2		
<i>Abrostola urentis</i> Gn.	2		
<i>Acronicta</i> sp.	1	1	3L
<i>americana</i> Harr.	16	2	9L
<i>cretoides</i> Benj.	1		
<i>dactylina</i> Grt.	10	1	2L
<i>distans</i> Grt.	1		
<i>fragilis</i> Gn.	13	3	1L
<i>funeralis</i> G. & R.	4		
<i>furcifera</i> Gn.	4		
<i>grisea</i> Wlk.	19	1	2L
<i>impleta</i> Wlk.	8		1L
<i>impressa</i> Wlk.	13	1	
<i>impressa emaculata</i> Sm.	1		
<i>inclara inconstans</i> Sm.	12		
<i>innotata</i> Gn.	22	1	2L
<i>lanceolaria</i> Grt.	1		
<i>leporina</i> L.	11	1	1L
<i>lepusculina</i> Gn.	8	1	4L
<i>morula</i> G. & R.	4		
<i>sp. prob. noctivaga</i> Grt.	1		
<i>oblinita</i> J. E. Smith	6		
<i>ovata</i> Grt.	1		
<i>quadrata</i> Grt.	4		1L
<i>raddcliffei</i> Harv.	1		1L
<i>sperata speratina</i> Sn.	2		1L
<i>superans</i> Gn.	1		
<i>Actebia fennica</i> Tausch.	1		
<i>Adita chionanthi</i> A. & S.	4		
<i>Agroperina cogitata</i> Sm.	1		
<i>dubitans</i> Wlk.	2		
<i>indela</i> Sm.	1		
<i>indela lineosa</i> Sm.	1		
<i>lateritia</i> Hufn.	2		
<i>lineosa</i> Sm.	2		
<i>pendina</i> Sm.	1		
<i>Agrotis mollis</i> Wlk.	1		
<i>orthogonia</i> Morr.	2		
<i>venerabilis</i> Wlk.	2		
<i>vetusta</i> Wlk.	1		
<i>volubilis</i> Harv.	1		
<i>zeta</i> Rott.	2		
<i>Aletia oxygala</i> Grt.	1		
<i>Amathes hormaniana</i> Grt.	2		4L
<i>oblata</i> Morr.	2		
<i>smithi</i> Snell.	2		
<i>smithi baja</i> Auct.	1		

	<u>No. of adults</u>	<u>No. of inflated larvae</u>	<u>No. of vials of preserved material*</u>
<i>Amphipoea alia</i> Gn.	1		
<i>americana</i> Speyer.	1		
<i>amputatrix</i> Fitch	1		
<i>arctica</i> Frr.	1		
<i>commoda alberta</i> Sm.	2		
<i>finitima</i> Gn.	2		
<i>finitima cerivana</i> Sm.	2		
<i>indocilis runata</i> Sm.	2		
<i>inordinata montana</i> Sm.	1		
<i>interoceanica</i> Sm.	2		
<i>lignicolora</i> Gn.	2		
<i>Amphipyra glabella</i> Morr.	1		
<i>pyramidoides</i> Gn.	11	2	1L
<i>Anagrapha falcifera</i> Wlk.	2		
<i>falcifera simplex</i> Gn.	2		
<i>Anaplectoides pressus</i> Grt.	2		
<i>Anathix puta</i> G. & R.	1		
<i>Andropolia aedon</i> Grt.	1		
<i>contacta</i> Wlk.	7		
<i>Anomogyna elimata</i> Gn.	16	3	3L
<i>mustelina</i> Sm.	2		
<i>perquiritata</i> Morr.	4		1L
<i>Anticarsia gemmatilis</i> Hbn.	1		
<i>Apamea amputatrix</i> Fitch	1		
<i>apamiformis</i> (Guer.)	1		6L
<i>Archanara subflava</i> Grt.	2		
<i>Archanarata oblonga</i> Grt.	1		
<i>Argyrostrotis anilis</i> Dru.	1		
<i>Arzama obliqua</i> Wlk.	3		
<i>Atethmia rectifascia</i> Grt.	1		2L
<i>Bleptina caradrinalis</i> Gn.	1		
<i>Bombycia algens</i> Grt.	2		
<i>Bomolocha abalienalis</i> Wlk.	1		
<i>bijugalis</i> Wlk.	3		
<i>palparia</i> Wlk.	1		
<i>sordidula</i> Grt.	1		
<i>Caenurgina crassiuscula</i> Haw.	3		
<i>distincta</i> Neum.	1		
<i>erecta</i> Cram.	3		1L
<i>Catocala agrippina subviridis</i> Harv.	1		
<i>amatrix nurus</i> Wlk.	1		
<i>amica</i> Hbn.	2		
<i>briseis</i> Edw.	2		
<i>concumbens</i> Wlk.	1		
<i>epione</i> Dru.	1		
<i>grotiana</i> Bailey	10		
<i>grynea</i> Cram.	1		
<i>hermia verecunda</i> Hl st.	1		

	<u>No. of adults</u>	<u>No. of inflated larvae</u>	<u>No. of vials of preserved material*</u>
NOCTUIDAE (cont'd.)			
<i>Catacola meskei</i> Grt.	1		
<i>parta</i> Gn.	1		
<i>relicta</i> Wlk.	10		
<i>sordida</i> Grt.	1		
<i>ultronia</i> Hbn.	1		
<i>unijuga</i> Wlk.	5		
sp.			1L
<i>Ceramica picta</i> Harr.	1	3	1L
<i>Chadadra deridens</i> Gn.	5		
<i>Chorizagrotis auxiliaris</i> Gn.	5		
<i>Chryspidia venusta</i> Wlk.	7		
<i>Chrysoptera moneta esmeralda</i> Obert.	2		
<i>Chytolita petrealis</i> Grt.	6		
<i>Chytonix palliatricula</i> Gn.	1		
<i>Colocasia flavicornis electa</i> Say.	2		
<i>propinquilinea</i> Grt.	5		1L
<i>Cosmia calami</i> Harv.	3		
<i>Crocigrapha normani</i> Grt.	3	2	
<i>Crymodes devastator</i> Brace	1		
<i>Cryphia pervertens</i> B. & McD.	1		
<i>Cryptocala acadensis</i> Beth	2		
<i>acadensis gilvipennis</i> Grt.	2		
<i>Cucullia intermedia</i> Speyer	13		3L
<i>postera</i> Gn.	1		
<i>Dargida procincta</i> Grt.	1		
<i>Dysocnemis borealis</i> Hamp.	3		
<i>Elaphria versicolor</i> Grt.	5	1	
<i>Enargia decolor</i> Wlk.	17	1	7L
<i>infumata</i> Grt.	11		
<i>Epizeuxis aemula</i> Hbn.	18	2	
<i>americalis</i> Gn.	14		
<i>lubricalis</i> Geyer.	2		
<i>Erastrix albidula</i> Gn.	1		
<i>bellicula</i> Hbn.	2		
<i>carncola</i> Gn.	7		
<i>muscosula</i> Gn.	1		
<i>Eucirrhoedia pampina</i> Gn.	5		
<i>Euclidina cuspidea</i> Hbn.	7		
<i>Eueretagrotis attentata</i> Grt.	1		
<i>perattentata</i> Grt.	5		
<i>Euherrichia monetifera</i> Gn.	2		
<i>Euplexia benesimilis</i> McD.	1		
<i>Eupsilia sidus</i> Gn.	13		
<i>tristigmata</i> Grt.	9		2L
<i>Eurois astricta</i> Morr.	16		
<i>occulta</i> Linn.	5		
<i>tristicula</i> Morr.	1		



	<u>No. of adults</u>	<u>No. of inflated larvae</u>	<u>No. of vials of preserved material*</u>
<i>Euxoa acornis</i> Sm.	2		
<i>albipennis</i> Grt.	1		
<i>basalis</i> Grt.	1		
<i>campestris</i> Grt.	3		
<i>declarata</i> Wlk.	1		
<i>detersa</i> Wlk.	1		
<i>divergens</i> Wlk.	2		
<i>flavicollis</i> Sm.	1		
<i>intrita</i> Morr.	2		
<i>messoria</i> Harr.	1		
<i>mimallonis</i> Grt.	1		
<i>niveilinia</i> Grt.		1	
<i>obeliscoides infusa</i> Sm.	2		
<i>ochrogaster</i> Gn.	5		
<i>ochrogaster gularis</i> Grt.	1		
<i>ochrogaster insignata</i> Wlk.	1		
<i>ochrogaster turris</i> Grt.	1		
<i>pallipennis</i> Sm.	1		
<i>plagigera</i> Morr.	1		
<i>quadridentata</i> G. & R.	2		
<i>recticincta</i> Sm.	1		
<i>redimicula</i> Morr.	1		
<i>scandens</i> Riley	1		
<i>tesselata</i> Harr.	2		
<i>tristicula</i> Morr.	2		
<i>tristicula nesilens</i> Sm.	1		
<i>verticallis</i> Grt.	1		
<i>Faronta diffusa</i> Wlk.	1		
<i>Feltia ducens</i> Wlk.	4		
<i>herilis</i> Grt.	1		
<i>subgothica</i> Haw.	1		
<i>Feralia jocosa</i> Gn.	4	1	7L
<i>Galgula partita</i> Gn.	1		
<i>Graphiphora collaris</i> G. & R.	2		
<i>c-nigrum</i> Linn.	2		1L
<i>haruspica</i> Grt.	3		
<i>haruspica inopinatus</i> Sm.	2		
<i>tenuicula</i> Morr.	1		
<i>Harrisemna trisignata</i> Wlk.	1		
<i>Heliothus ononis</i> Schiff.			1L
<i>Helotropha reniformis</i> Grt.	1		
<i>Hemipachnobia monochromatea</i> Morr.	15		
<i>Hillia iris</i> Zett.	1		
<i>iris vigilans</i> Grt.	1		
<i>Homoglaea carbonaria</i> Haw.	1		
<i>hircina</i> Morr.	19	2	6L
<i>Homohadema badistriga</i> Grt.	1		
<i>infixa dinalda</i> Sm.	1		

	<u>No. of adults</u>	<u>No. of inflated larvae</u>	<u>No. of vials of preserved material*</u>
<i>Homohadema stabilis</i> Sm.	1		
<i>Hydroecia pallescens</i> Sm.	1		
<i>perobliqua</i> Hamp.	2		
<i>Hypena humuli</i> Harr.	1		
<i>Hypocoena inquinata</i> Gn.	6		
<i>rufostrigata</i> Pack.	2		
<i>Hyppa xylininoides</i> Gn.	1		
<i>Lacinipolia columbia</i> Sm.	1		
<i>lorea</i> Sm.	8		
<i>lustralis</i> Grt.	1		
<i>olivacea</i> Morr.	1		
<i>pensilis</i> Grt.	1		
<i>renigera</i> Steph.	6		
<i>vicina</i> Grt.	2		
sp. prob. <i>meditata</i> Grt.	1		
<i>Leucania multilinea</i> Wlk.	9		
<i>unipuncta</i> Haw.	13	1	3L
<i>Leuconycta diphteroides</i> Gn.	1		
<i>lepidula avirida</i> Sm.	4		
<i>obliterata</i> Grt.	1		
sp.			1L
<i>Litholomia napae</i> Morr.	8		
<i>Lithomoia solidaginis albertae</i> Strand.	3		
<i>solidaginis germana</i> Morr.	1		
<i>Lithophane amanda</i> Sm.	16		3L
<i>baileyi</i> Grt.	1		
<i>bethunei</i> G. & R.	13		
<i>disposita</i> Morr.	16		
<i>georgii</i> Grt.	21		
<i>holocinerea</i> Sm.	1		
<i>innominata</i> Sm.	14		
<i>laticinerea</i> Grt.	4		
<i>petulca</i> Grt.	6		
<i>petulca ferrealis</i> Grt.	4		
<i>pexata</i> Gn.	3		
<i>tepida</i> Grt.	1		
<i>thaxteri</i> Grt.	4		
<i>unimoda</i> Lint.	6		
<i>poss. lepida</i> Lint.	1		
sp.	2	2	2L
<i>Lomanaltes eductalis</i> Wlk.	15		
<i>Luperina passer</i> Gn.	2		
<i>Mamestra configurata</i> Wlk.	2		1L
<i>curialis</i> Sm.	3		
<i>Matigramma pulverilinea</i> Grt.	1		
<i>Metalepsis salicarum</i> Wlk.	1		
<i>Miniotype miniota</i> Sm.	1		
<i>Morrisonia evicta</i> Morr.	2		

	No. of <u>adults</u>	No. of <u>inflated larvae</u>	No. of vials of preserved <u>material*</u>	
<i>Nephelodes emmedonia</i> Cram.	5			
<i>Ochropleura plecta</i> L.	3			
<i>Oligia egens</i> Wlk.	2			
<i>illocata</i> Wlk.	1			
<i>tonsa subjuncta</i> Sm.	2			
<i>prob. mactata</i> Gn.	1			
sp.	1			
<i>Oncocnemis chanderli</i> Grt.	2			
<i>cibalis</i> Grt.	2			
<i>piffardi</i> Wlk.	3			
<i>sanina</i> Sm.	1			
<i>Orthodes contrahens</i> Wlk.	3			
<i>cynica</i> Gn.	1			
<i>eviduca</i> Gn.	1			
<i>Orthosia hibisci</i> Gn.	37		8L	1P
<i>revicta</i> Morr.	5	2	1L	
<i>Palthis angulalis</i> Hbn.	9	1	5L	
<i>Panopoda rufimargo</i> Hbn.	1			
<i>Panthea acronyctoides</i> Wlk.	9	1	2L	
<i>furcilla</i> Pack.	5	1	3L	
<i>pallescens centralis</i> McD.	1			
sp. <i>porlandia</i> group	6			
<i>Papaipema cataphracta</i> Grt.	1			
<i>marginidens</i> Gn.	2			
<i>pterisii</i> Bird	1			
<i>purpurifascia</i> G. & R.	1		2L	
<i>Paradiarsia littoralis pectinata</i> Sm.	2			
<i>Parallelia bistriaris</i> Hbn.	1		1L	
<i>Parastichtis discivaria</i> Wlk.	2		1L	
<i>Peridroma margaritosa</i> Haw.	2			
<i>Philometra hanhami</i> Sm.	2			
<i>metonalis</i> Wlk.	2			
<i>Phlogophora iris</i> Gn.	1		2L	
<i>periculosa</i> Gn.	5			
<i>Plagiomimicus pityochromus</i> Grt.	1			
<i>Platypena scabra</i> F.	7			
<i>Platyperigea extima</i> Wlk.	3			
<i>multifera</i> Wlk.	1			
<i>Platypolia anceps</i> Steph.	1			
<i>Plusia aereoides</i> Grt.	2			
<i>balluca</i> Geyer	4			
<i>Polia adjuncta</i> Bdv.	1			
<i>assimilis</i> Morr.	1			
<i>atlantica</i> Grt.	3			
<i>cristifera</i> Wlk.	6			
<i>detracta</i> Wlk.	2	1		
<i>detracta neoterica</i> Sm.	1			
<i>goodelli</i> Grt.	1			

	<u>No. of adults</u>	<u>No. of inflated larvae</u>	<u>No. of vials of preserved material*</u>
NOCTUIDAE (Cont'd.)			
<i>Polia grandis</i> Bdv.	3		
<i>imbrifera</i> Gn.	2		
<i>ingravis</i> Sm.	1		
<i>latex</i> Gn.	1		
<i>lutra</i> Gn.	10		
<i>nevadae canadensis</i> Sm.	4		
<i>nimbosa mystica</i> Sm.	5		
<i>pulverulenta</i> Sm.	7		
<i>purpurissata</i> Grt.	1		
<i>radix</i> Wlk.	6		
<i>tacoma</i> Stkr.	2		
sp.	1		1L
<i>Procus</i> sp.	1		
<i>Protolampra rufipectus</i> Morr.	3		
<i>Protoleucania albilinea</i> Hbn.	2		1L 1P
<i>Proxenus miranda</i> Grt.	5		
<i>Pseudeva purpurigera</i> Wlk.	1		
<i>Pyrrhia umbra exprimens</i> Wlk.	21		2L
<i>Raphia frater</i> Grt.	15	1	4L 1P
<i>Renia flavipunctalis</i> Geyer	1		
<i>Rhodophora florida</i> Gn.	3		
<i>Rivula propinqualis</i> Gn.	2		
<i>Schinia cumatilis</i> Grt.	2		
<i>Scoliopteryx libatrix</i> L.	16	1	3L
<i>Scotogramma farnhami</i> Grt.	1		
<i>mutata</i> Dod.	1		
<i>trifolii</i> Rott.	2		
<i>Sideridis rosea</i> Harv.	1		
<i>Simyra henrici</i> Grt.	1		
<i>Spaelotis clandestina</i> Harr.	15		
<i>Stibabium spumosum</i> Grt.	2		
<i>Strenoloma lunilinea</i> Grt.	1		
<i>Stretchia plusia formis coloradicola</i> Strand.	1		
<i>Sunira bicolorago</i> Gn.	5		
<i>Synedoida hudsonica heathi</i> B. & McD.	3		
<i>abumbrata alleni</i> Grt.	1		
<i>Syngrapha alias</i> Ottol.	16	1	2L
<i>ampla</i> Wlk.	12		
<i>bimaculata</i> Steph.	2		
<i>biloba</i> Steph.	2		
<i>brassicae</i> Riley	4		
<i>californica</i> Speyer	1		
<i>epigaea</i> Grt.	10		
<i>interalia</i> Ottol.	2		
<i>mappa</i> G. & R.	2		
<i>putnami</i> Grt.	7		
<i>rectangula</i> Kby.	3		

	No. of adults	No. of inflated larvae	No. of vials of preserved material*	
NOCTUIDAE (Cont'd.)				
Syngrapha <i>rectangula nargenta</i> Ottol.	2			
<i>selecta</i> Wlk.	12			
sp.		1	2L	
Tarachidia <i>binocula</i> Grt.	2			
<i>semiflava</i> Gn.	1			
Therasea <i>angustipennis</i> Grt.	1			
Trachea <i>commoda alberta</i> Sm.	1			
<i>finitima cerivana</i> Sm.	1			
Ufeus <i>plicatus</i> Grt.	3			
Xanthia <i>lutea</i> Strom.	7			
Xylena <i>cineritia</i> Grt.	1			
<i>curvimacula</i> Morr.	4			
Xylomyges <i>dolosa</i> Grt.	14		8L	1P
Zale <i>duplicata</i> Beth.	8	1	1L	1P
<i>duplicata largera</i> Sm.	31		2L	
<i>edusa</i> Dru.	1			
<i>lunata</i> Dru.	1			
<i>lunifera</i> Hbn.	1			
<i>metatoides</i> McD.	9		1L	
<i>minerea norda</i> Sm.	4			
<i>obliqua</i> Gn.	16			
prob. <i>obliqua submediana</i> Strand.	1			
sp.	2	3	2L	
Zanclognatha <i>laevigata</i> Grt.	1			
<i>minoralis</i> Sm.			1L	
<i>ochreipennis</i> Grt.	1			
<i>protumnusalis</i> Wlk.	1			
poss. <i>protumnusalis</i> Wlk.	1			
sp.	2			
Zenobia <i>pleonectusa manitobae</i> Strand.	23	5	1L	
NOLIDAE				
Celama <i>cilicoides</i> Grt.	5			
NOTODONTIDAE				
Cerura <i>cinerea</i> Wlk.	1			1E
<i>modesta</i> Hud.	1			
<i>occidentalis</i> Lint.	10			
<i>scolopendrina albicoma</i> Stkr.	1			
Dasylophia <i>anguina</i> A. & S.	1	1	1L	
Datana <i>integerrima</i> G. & R.	1			
<i>ministra</i> Dru.	6	3	6L	1P
Gluphisia <i>lintneri</i> Grt.	1			
<i>septentrionalis</i> Wlk.	32	1	2L	
Heterocampa <i>bilineata</i> Pack.	1	1		
<i>biundata</i> Wlk.	1			
<i>guttivitta</i> Wlk.	8	1		
<i>obliqua</i> Pack.	1			
<i>umbrata pulverea</i> G. & R.	1			
sp.	1			

	<u>No. of adults</u>	<u>No. of inflated larvae</u>	<u>No. of vials of preserved material*</u>		
<i>Hyperaeschra georgica</i> H.-S.	1				
<i>stagula</i> Grt.	4	1			
<i>Ichthyura albosigma</i> Fitch	13				
<i>apicalis</i> Wlk.	12				
<i>specifica</i> Dyar	2				
<i>strigosa</i> Grt.	6				
sp.	2				
<i>Lophodonta angulosa</i> J.E. Smith	4				
<i>ferruginea</i> Pack.	2			1L	
<i>Nadata gibbosa</i> J.E. Smith	12	1		1L	
<i>Nerice bidentata</i> Wlk.	4	1			
<i>Notodonta simplaria</i> Graef.	2				
<i>Odontosia elegans</i> Stkr.	3				
<i>Oligocentria lignicolor</i> Wlk.	1				
<i>Pheosia rimosa</i> Pack.	6	2		1L	
<i>Schizura concinna</i> J.E. Smith	29	2		9L	
<i>ipomoeae</i> Dblly	1			1L	
<i>leptinoides</i> Grt.	7	1			
<i>semirufescens</i> Wlk.	4				
<i>unicolor</i> A. & S.	7				
<i>unicornis</i> J.E. Smith	8	1		2L	
<i>Symmerista albifrons</i> J.E. Smith	2			5L	
<i>canicosta</i> Francl.	2				
NYCTEOLIDAE					
<i>Baileya doubledayi</i> Gn.	4				
<i>Nycteola cinerea</i> N. & D.	11	1		2L	
<i>frigidana</i> Wlk.	9	2		5L	
NYPHALIDAE					
<i>Argynnis aphrodite</i> Fabr.	4				
<i>cybele</i> Fabr.	1				
<i>lais</i> Edw.	1				
<i>Bolovia bellona</i> Fabr.	3				
<i>myrina</i> Cram.	2				
<i>Euphydryas phaeton</i> Dru.	1				
<i>Euptoieta claudia</i> Cram.	6	4			
<i>Limenitis archippus</i> Cram.	2				
<i>arthemis</i> Dru.	19	3			
<i>Nymphalis antiopa</i> Linn.	11	2		14L	1E 2P
<i>j-album</i> Bdv. & Lec.	4	1			
<i>milberti</i> Godt.	6	2		3L	1P
<i>Phyciodes batesii</i> Reak.	1				
<i>gorgone carlota</i> Reak.	2			1L	
<i>tharos</i> Dru.	5				

	No. of adults	No. of inflated larvae	No. of vials of preserved material*
<i>Polygonia faunus</i> Edw.	3		
<i>interrogationis</i> Fabr.	1		
<i>progne</i> Cram.	7		
<i>satyrus</i> Edw.	8		
<i>Vanessa atalanta</i> L.	3		1L
<i>cardui</i> L.	8		3L
<i>carye</i> Hbn.	1		1P
OECOPHORIDAE			
<i>Agonopterix argillaceae</i> Wlshm.	28	1	
<i>gelidella</i> Busck.	11		
sp.	6		
<i>Bibarrambla allenella</i> Wlshm.	24		1L
sp.	1		
<i>Depressaria betulella</i> Busck.	13		
<i>groteella</i> Rob.	21		1L
sp.			1L
<i>Gerdana caritella</i> Busck.	1		
<i>Machimia tentorifella</i> Clem.	1		
<i>Martyrhild klamathiana</i> Wlshm.	1		
<i>sciadopoda</i> Meyr.	3		
<i>Psilocoris fletcherella</i> Gibs.	15	1	2L
<i>quercicella</i> Clem.	6		1L
sp.	10		3L
<i>Schiffermulleria coloradella</i> Wlshm.	1		
<i>Semioscopis inornata</i> Wlshm.	9		
PAPILIONIDAE			
<i>Papilio ajax</i> L.	4		1L
<i>glaucus</i> L.	5		
<i>glaucus canadensis</i> R. & J.	7	1	
<i>polyxenes asterius</i> Stoll.	2		
PERICOPIDAE			
<i>Gnophaela latipennis</i> Bdv.	24	1	5L
PHALONIIDAE			
<i>Hysterosia</i> sp.	2		
<i>Phalonia rutilana</i> Hbn.	6		
PIERIDAE			
<i>Golias interior</i> Scudder	1		
<i>philodice</i> Godt.	3		
<i>Euchloe ausonides mayi</i> Cherm.	1		
<i>Eurymus erytheme</i> Bdv.	6		
<i>Pieris napi</i> L.	1		
<i>protodice occidentalis</i> Scud.	1		
<i>rapae</i> L.	7		4L
			1P

	No. of <u>adults</u>	No. of <u>inflated</u> <u>larvae</u>	No. of vials of preserved <u>material*</u>	
<b>PLUTELLIDAE</b>				
<i>Cerostoma dorsimaculella</i> Kft.	25			
<i>Harpipteryx canariella</i> Wlshm.	1			
<i>dentiferella</i> form <i>frustrella</i> Wlshm.	2			
<i>Plutella maculipennis</i> Curt.	3		2L	
<i>Plutella</i> sp.			1L	
<i>Trachoma falciferella</i> Wlshm.	1			
<i>senex</i> Wlshm.	1			
<b>PTEROPHORIDAE</b>				
<i>Oidaematophorus homodactylus</i> Wlk.	1			
<i>stramineus</i> Wlshm.	1			
sp.	1			
<i>Platytilia punctidactyla</i> Haw.	14			
<b>PYRALIDAE</b>				
<i>Acrobasis betulella</i> Hlst.	25		2L	1P
<i>indigenella</i> Zell.	1		1L	
<i>rubrifasciella</i> Pack.	23		1L	
<i>tricolorella</i> Grt.	11			
<i>Ambesa laetella</i> Grt.	1			
<i>Anerastia lobella</i> Hbn.	1			
<i>Argyria nivalis</i> Dru.	1			
<i>Canarsia ulmiarrosorella</i> Clem.	5			
<i>Catoptria latiradiella</i> Grt.	4			
<i>Chilo plejadellus</i> Zinck.	11		2L	
<i>Crambus dorsipuntellus</i> Kft.	1			
<i>girardellus</i> Clem.	1			
<i>hortuellus</i> Hbn.	1			
<i>hortuellus topiarius</i> Zell.	1			
<i>innotatellus</i> Wlk.	2			
<i>leachellus</i> Zinck.	1			
<i>perlellus innotatellus</i> Wlk.	4			
<i>ruricolellus</i> Zell.	1			
<i>simpliciellus</i> Kft.	1			
<i>unistrialellus</i> Pack.	2			
sp.	3		1L	
<i>Desmia funeralis</i> Hbn.	4			
<i>Diorcyctria abietivorella</i> D. & S.	15		5L	
<i>auranticella</i> Grt.	1			
<i>disclusa</i> Heinr.	1			
<i>reniculella</i> Grt.	52	3	7L	1P
<i>zimmermanni</i> Grt.	10			
n. sp.	23			
sp.	1	1		
<i>Ephestia kuehniella</i> Zell.	1			
<i>Epischmia</i> sp. nr. <i>boisduvaliella</i> Gn.	1			
<i>Euzophera ochifrontella</i> Zell.	2			
<i>Evergestis straminialis</i> Hbn.	2			



	<u>No. of adults</u>	<u>No. of inflated larvae</u>	<u>No. of vials of preserved material*</u>
<i>Framinghamia helvalis</i> Wlk.	1		
<i>Galleria mellonella</i> L.	1		
<i>Herculia thymetusalis</i> Wlk.	47	2	1L
<i>Homoeosoma electellum</i> Hlst.	2		2L
<i>uncanale</i> Hlst.	2		
sp.	1		
<i>Loxostege chortalis</i> Grt.	1		
<i>commixtalis</i> Wlk.	2		
<i>similalis</i> Gn.	1		
<i>sticticalis</i> L.	12	4	5L
<i>Meroptera abditiva</i> Heinr.	1		
<i>pravella</i> Grt.	19	1	3L
<i>Moodna ostrinella</i> Clem.	5		1L
<i>Munroessa iceiusalis</i> Wlk.	5		
<i>Myrllaea prob. fernaldi</i> Rag.	1		
<i>Nephopteryx carneola</i> Hlst.	1		
<i>basilaris</i> Zell.	1		
<i>termitalis</i> Hlst.	1		
<i>Nomophila noctuella</i> D. & S.	9		
sp.	1		
<i>Ortholepis pasadamia</i> Dyar	9		
<i>Pantographa limata</i> G. & R.		1	
<i>Parapoinx badiusalis</i> Wlk.	7		
<i>maculalis</i> Clem.	4		
<i>obscuralis</i> Grote	13		
<i>Parargyractis fulicalis</i> Clem.	2		
<i>Pediasia trisectus</i> Grt.	5		
<i>Perispasta caeculalis</i> Zell.	2		
<i>Peoria approximella</i> Wlk.	3		
<i>Phlyctaenia coronata tertialis</i> Gn.	1		
<i>extricalis dionalis</i> Wlk.	2		
<i>helvalis</i> Wlk.	2		
<i>sambucalis</i> Schiff.	2		
<i>tertialis</i> Gn.	1		
<i>Plodia interpunctella</i> Hbn.	2		3L
<i>Pyralis farinalis</i> Linn.	3		
<i>Pyrausta fodinalis</i> Led.	1		
<i>fumoferalis</i> Hlst.	3		
<i>funebri</i> Strom.	1		
<i>futilalis</i> Led.	4		1L
<i>nicalis</i> Grt.	1		
<i>nubilalis</i> Hbn.	2		1L
<i>ochosalis</i> Dyar	2		
<i>pertextalis</i> Led.	3		
<i>signatalis</i> Wlk.	2		
<i>Schöenobius albicostellus</i> Fern.	1		
sp.	1		
<i>Scoparia biplagiialis</i> Wlk.	3		
<i>centuriella</i> D. & S.	2		

	No. of adults	No. of inflated larvae	No. of vials of preserved material*
<i>Tetralopha applastella</i> Hlst.	7	5	1L
<i>expandens</i> Wlk.	2		
<i>robustella</i> Zell.	6		1L
sp.	2		1L
<i>Udea rubigalis</i> Gn.	1		
SATURNIIDAE			
<i>Actias luna</i> Linn.	6	1	3L 7E
<i>Autheraea polyphemis</i> Cram.	13	1	4L 2P
<i>Automeris io</i> Fabr.	3		1L
<i>Hemileuca lucina latifascia</i> B. & McD.	5		3L
<i>Hyalophora cecropia</i> Linn.	15	3	6L 1P
SATYRIDAE			
<i>Coenomympha inornata</i> Edw.	4		
<i>inornata benjamini</i> McD.	2		
<i>Enodia portlandia bonealis</i> Clk.	3		
<i>Erebia discoidalis</i> Kby.	1		
<i>episodea</i> Butl.	1		
<i>Megisto eurytus</i> Fabr.	2		
<i>Minois alope nephele</i> Kby.	5		
<i>alope olympus</i> Edw.	2		
SPHINGIDAE			
<i>Ampeloeca myron</i> Cram.	3		
<i>Amphion nessus</i> Cram.	2		
<i>Celerio intermedia</i> Kby.	10		3L 1P
<i>lineata</i> Fabr.	5	1	
<i>Ceratomia amyntor</i> Hbn.	2		
<i>undulosa</i> Wlk.	3		1L
<i>undulosa borealis</i> Clark	3	1	
<i>Darapsa pholus</i> Cram.	4		
<i>Hemaris aethra</i> Stkr.	1		
<i>ariadne</i> B. & McD.	2		
<i>diffinis</i> Bdv.	4	1	
<i>thysbe</i> Fabr.	11		
<i>Isogramma hageni</i> Grt.	1		
<i>Lapara bombycoides</i> Wlk.	5	1	3L
<i>Paonis excaecata</i> J.E. Smith	6		
<i>excaecata borealis</i> Clark	3		
<i>myops</i> A. & S.	2		
<i>myops mecrearyi</i> Clark	1		
<i>Pachysphinx modesta</i> Harr.	12		1E
<i>Pholus achemon</i> Dru.	1		
<i>fasciatus</i> Sulz.	1		
<i>satellititia pandorus</i> Hbn.	1		
<i>Phlegethontius sexta</i> Joh.	1	1	
<i>Prosperpinus flavofasciata</i> Wlk.	2		

	No. of adults	No. of inflated larvae	No. of vials of preserved material*
<i>Smerinthus cerisyi</i> Kby.	8		1P
<i>jamaicensis</i> Dru.	19		
<i>jamaicensis geminatus</i> Say	1		2L
sp.		1	2L
<i>Sphecodina abbottii</i> Swaine	1		
<i>Sphinx chersis</i> Hbn.	1		
<i>drupiferarum</i> J.E.S.	4		
<i>eremitus</i> Hbn.	1		
<i>gordius</i> Cram.	8		4L
<i>luscitiosa</i> Clem.	2		
<i>vashti</i> Stkr.	6		
sp.	1		1L
STENOMIDAE			
<i>Stenoma algidella</i> Wlk.	6		
THYATIRIDAE			
<i>Euthyatira pudens</i> Gn.	1		
<i>Habrosyne scripta</i> Gosse	3		
<i>Pseudothyatira cymatophoroides</i> Gn.	6		
<i>cymatophoroides expultrix</i> Grt.	2		
TINEIDAE			
prob. <i>Elatobia martinella</i> Wlk.	1		
<i>Monopis biflavimaculella</i> Clem.	5		
<i>monachella</i> Hbn.	2		
<i>Scardia anatomella</i> Grt.	1		
<i>Tinea cloacella</i> Haw.	5		
prob. <i>acapnopennella</i> Clem.	1		
sp.	2		
<i>Tineola biselliella</i> Hum.			2L
TORTRICIDAE			
<i>Acleris braunana</i> McD.	14		
<i>busckana</i> McD.	3		
<i>caliginosana</i> Wlk.	7		
<i>celiana</i> Rob.	4		
<i>celiana</i> form <i>albilineana</i> Kft.	4		
<i>chalybeana</i> Fern.	1		
<i>cornana</i> McD.	4		
<i>emargana</i> Fabr.	4		
<i>fishiana</i> Fern.	7		
<i>flavivittana</i> Clem.	2		
<i>fuscana</i> B. & Bsk.	18		
<i>gallicolana</i> Clem.	3		
<i>gallicolana</i> form <i>heindelana</i> Fern.	82		
<i>hastiana</i> Linn.	13		
<i>hudsoniana</i> Wlk.	22		

	<u>No. of adults</u>	<u>No. of inflated larvae</u>	<u>No. of vials of preserved material*</u>
TORTRICIDAE (cont'd.)			
<i>Acleris logiana</i> Linn.	27		
<i>maximana</i> B. & B.	5		
<i>nigrolinea</i> Rob.	25		
<i>nivisellana</i> Wlshn.	1		
<i>oxycoccana</i> Pack.	3		
<i>pulverosana</i> Wlk.	5		
<i>semiannula</i> Rob.	6		
<i>variana</i> Fern.	47	2	4L
prob. <i>hastiana</i> Linn.	1		
prob. <i>hudsoniana</i> Wlk.	5		
prob. <i>pulverosana</i> Wlk.	3		
prob. <i>semiannula</i> Rob.	1		
sp.	27		1L
<i>Adoxophyes negundana</i> McD.	1		
<i>Amorbia humerosana</i> Clem.	15	1	2L
<i>Anchylopera angulifasciana</i> Zell.	1		
<i>nubeculana</i> Clem.	1		
sp.	2		
<i>Ancylis mediofasciana</i> Clem.	1		
<i>Aphania capreana</i> Hbn.	28		
<i>deceptana</i> Kft.	13		
<i>dextrana</i> McD.	14		
<i>infida</i> Heinr.	7		
<i>removana</i> Kft.	1		
<i>saliciana</i> Free.	3		
<i>spinulana</i> McD.	1		
<i>tertiana</i> McD.	1		
<i>youngana</i> McD.	5		
sp. prob. <i>frigidana</i> Pack.	1		
sp.	3		
<i>Archippus albertus</i> McD.	30		1L
<i>packardianus</i> Fern.	31	1	1L
<i>striatus</i> Fern.	11		
<i>Archips argyrospilus</i> complex	17	1	
<i>cerasivoranus</i> Fitch.	21	5	1L
<i>fervidanus</i> Clem.	16		
<i>negundanus</i> Dyar.	71		2L
<i>purpuranus</i> Clem.	7		1L
sp.	2		1L
<i>Argyrotaenia citrana</i> Fern.	4	1	1L
<i>mariana</i> Fern.	14		
<i>occultana</i> Free.	9	1	1L
<i>pinatubana</i> Kft.	21	1	1L
<i>quadrifasciana</i> Fern.	3		
<i>quercifoliana</i> Fitch.	6		
<i>tabulana</i> Free.	8		
<i>velutinana</i> Wlk.	2		

	No. of adults	No. of inflated larvae	No. of vials of preserved material*	
<i>Argyrotoxa curvalana</i> Kft.	5			
<i>Badebecia urticana</i> Hbn.	18	1	3L	
<i>Barbara mappana</i> Free.	4		3L	
<i>Cenopis pettitana</i> Rob.	6			
<i>Choristoneura absoletana</i> Wlk.	1			
<i>conflictana</i> Wlk.	42		14L	
<i>fumiferana</i> Clem.	50	1	5L	
<i>parallela</i> Rob.	2			
<i>pinus pinus</i> Free.	30	1	3L	1P
<i>rosaceana</i> Harr.	54		4L	
<i>zapulata</i> Rob.	4			
<i>Clepsis clemensiana</i> Fern.	1			
<i>melaleucana</i> Wlk.	1			
<i>persicana</i> Fitch.	34	1	3L	
<i>Endothenia antiquana</i> Hbn.	7			
<i>Epiblema culminana</i> Wlshm.	1			
<i>Epinotia crenana</i> Hon.	1			
<i>criddleana</i> Kft.	16			
<i>cruciana</i> Linn.	1			
<i>emarginana</i> Wlshm.	1			
<i>lindana</i> Fern.	2		1L	
<i>madderana</i> Kft.	1			
<i>medioplagata</i> Wlshm.	5			
<i>nisella</i> Clerck	65			
<i>rectiplicana</i> Wlshm.	3			
<i>septemberana</i> Kft.	1			
<i>solandriana</i> Linn.	47		2L	1P
<i>transmissana</i> Wlk.	1			
prob. <i>rectiplicana</i> Wlshm.	7			
prob. <i>solandriana</i> Linn.	1			
sp.	13			
<i>Eucosma derelicta</i> Heinr.	3			
<i>gloriola</i> Heinr.	8		2L	
<i>ridingsana</i> Rob.	2			
sp.	1			
<i>Eulia ministrana</i> Linn.	3			
<i>Evora hemidesma</i> Zell.	3			
<i>Exartema appendiceum</i> Zell.	5			
<i>inornatanum</i> Clem.	2			
<i>quadrifidum</i> Zell.	6			
<i>filianum</i> Heinr.	1			
prob. <i>corylanum</i> Fern.	1			
sp.	4			
<i>Grapholitha prunivora</i> Walsh.	13			
<i>Griselda radicana</i> Heinr.	13		1L	
<i>Gypsonoma salicicolana</i> Clem.	4			
<i>substitutionis</i> Heinr.	10			
sp.	2			

	No. of <u>adults</u>	No. of <u>inflated</u> <u>larvae</u>	No. of vials of preserved <u>material*</u>
<i>Hedia chionosema</i> Zell.	1		
<i>ochroleucana</i> Hbn.	5		
<i>Laspeyresia ingrata</i> Heinr.	23		
<i>populana</i> Busck.	2		
<i>youngana</i> Kft.	18		2L
sp. nr. <i>ingrata</i> Heinr.	2		
<i>Olethreutes albiciliana</i> Fern.	1		
<i>buckellana</i> McD.	2		
<i>cespitana</i> Hbn.	7		
<i>depracatoria</i> Heinr.	2		
<i>glaciana</i> Moesch.	6		
<i>polluxana</i> McD.	1		
<i>Pandemis canadana</i> Kft.	32		1L
<i>limitaria</i> Rob.	38		1L
<i>Petrova albicapitana</i> Busck.	11		13L 1P
<i>luculentana</i> Heinr.	1		
sp.			3L
<i>Platynota idaeusalis</i> Wlk.	5		
<i>Polychrosis piceana</i> Free.	7		
sp. poss. <i>piceana</i> Free.	6		
<i>Proteoteras aesulana</i> Riley	5		
<i>crescentana</i> Kft.	4		1L
<i>willingana</i> Kft.	43		7L
<i>Pseudexentera improbana</i> Wlk.	1		
<i>oregonana</i> Wlsh. m.	40		6L
<i>Ptycholoma virescana</i> Clem.	1		
<i>Rhyacionia buoliana</i> Schiff.	10		2L 1P
<i>frustrana</i> Comst.	3		2L
sp.	2		3L
<i>Sciaphila duplex</i> Wlsh. m.	48	2	2L 1P
<i>duplex form thallasana</i> McD.	19		
<i>Sparganothis directana</i> Wlk.	15		
<i>groteana</i> Fern.	1		
<i>irrorea</i> Rob.	5		
<i>reticulatana</i> Clem.	7		
<i>sulfereana</i> Clem.	1		
<i>tristriata</i> Kft.	17	1	1L
<i>vocaridorsana</i> Kft.	1		
sp.	2		
<i>Taniva albolineana</i> Kft.	32		2L
<i>Thiodia convergana</i> McD.	2		
<i>dorsiatomana</i> Kft.	1		
<i>indagatricana</i> Heinr.	1		
<i>ornatula</i> Heinr.	2		
<i>pallidicostana</i> Wlsh. m.	2		
sp. nr. <i>umbraticana</i> Heinr.	1		
<i>Tortrix alleniana</i> Fern.	1		
<i>wellingtoniana</i> Kft.	1		

	<u>No. of adults</u>	<u>No. of inflated larvae</u>	<u>No. of vials of preserved material*</u>
<i>Zeiraphera diniana</i> Gn.	14		1L
<i>fortunana</i> Kft.	29		
<i>ratzeburgiana</i> Ratz.	10		
sp.	8		
YPONOMEUTIDAE			
<i>Argyresthia goedartella</i> Linn.	1		
<i>laricella</i> Kft.	1		
<i>oreasella</i> Clem.	6		1L
<i>pygmaeella</i> Hbn.	1		
<i>Zelleria haimbachi</i> Busck.	11		3L