

LEPIDOPTERA OF THE FORMER LLOYD LOHR FARM, 1999-2001 – 2009 UPDATE

Charles Durham Bird, 15 March 2010
Box 22, Erskine, AB, T0C 1G0
cdbird@xplornet.com

The present paper incorporates a number of redeterminations and additions to the information in earlier reports.

INTRODUCTION

The late Lloyd Lohr lived on a farm 12 km SE of Erskine for all of his life. He was a naturalist first and a farmer second. He referred to his land north of his home as the “Section”. He believed in keeping it as natural as possible. It consisted of aspen woods with a number of small prairie areas and was typical of aspen parkland. The coordinates of this area are 52.23 N and 112.83 W; the elevation being around 850 m. With Lloyd’s encouragement, the writer studied Lepidoptera in the “Section” 40 times in the year 2000 (March 31; April 19, 20, 27; May 2, 12, 17, 25; June 6, 12, 20, 21, 22, 27; July 2, 4, 8, 11, 15, 20, 21, 24, 29; August 2, 4, 6, 8, 11, 12, 14, 15, 22, 23, 24, 28; September 12, 27; October 10 and 17) and once in the early part of 2001 (April 27).

The purpose of the study was to document the species of Lepidoptera that are characteristic of natural aspen woods in an area in south-central Alberta. Bird (2005) details the results of the study.



A winter view of aspen woods on the “Section”

SPECIMEN DISPOSITION

All specimens collected by the writer presently reside in his collection but they will eventually be donated to the Strickland Museum at the University of Alberta, to the Northern Forest Research Centre, and possible also to the Canadian National Collection.

CHECKLIST

The order and terminology, is that of R.W. Hodges (1983) except where recent changes in taxonomy have occurred. While most of the larger or macromoths are relatively well known, the same cannot be said for many of the smaller or micromoths. Identifications, especially of the latter, can be difficult or are at present impossible, until such time as revisionary studies are made. Also, genitalic dissection and examination is necessary for positive identification in some groups. For these reasons, some of the determinations should be regarded as tentative. The scientific names of the species are followed by the date-month-year of the collection and the number of individuals mounted.

Kenneth Bowman's (1951) list of the Lepidoptera of Alberta presents all species known at that time and gives the distribution of each according to 21 Areas. His Areas 5, 8 and 10 essentially cover all of south-central Alberta, with the study area being in his Area 5.

Pohl et al (2010) have put together an up-to-date annotated list of the Lepidoptera of Alberta. They include 2367 species, many more than those mentioned by Bowman (1951). The list incorporates recent changes in taxonomy of all groups according to various literature sources, including those listed for the Noctuoidea by Lafontaine & Schmidt (2010).

HEPIALIDAE – Ghost Moths and Swifts

29. *Gazoryctra novigannus* (B. & Benj.) – 23-VIII-2000 4.

TINEIDAE – Clothes Moths and others

421. *Monopis spilotella* Tengström – 2-VIII-2000 1.

GRACILLARIIDAE – Gracilariid Moths

645. nr. *Caloptilia syringella* (F.) – 27-IV-2001 1.

OECOPHORIDAE – Oecophorid Moths

855. *Agonopterix gelidella* (Bsk.) – 8-VIII-2000 1.
 889. *Agonopterix argillacea* (Wlsm.) – 27-III-2001 1.
 908. *Depressariodes ciniflonella* Lineig & Zell. – 28-III-2001 1.
 914. *Semioscopis inornata* Wlsm. – 19-IV-2000 1, 27-IV-2001 1, 12-V-2001 1.
 915. *Semioscopis megamicrella* Dyar – 19-IV-2000 1.
 916. *Semioscopis aurerella* Dyar – 20-IV-2000 1.

SYMMOCIDAE – Symmocid Moths

- 1138.31. *Glyphidocera hurlberti* Adamski – 24-VII-2000 1.

COLEOPHORIDAE – Coleophorid Moths

1260. *Coleophora elaeagnisella* Kft. – 24-VIII-2000 1.
 1271. *Coleophora pruniella* Clem. – 11-VII-2000 1.
 1359. *Coleophora cervinella* McD. – 12-VIII-2000 1?

 1681-2311. Indet. Gelechiids – 11-VII-2000 2, 24-VII-2000 1, 15-VIII-2000 1, 24-VII-2001 2, 18-VIII-2001 1. Little is known about many of the species in this family and it may be many years before some of these specimens are determined or described.
 1738. *Aristotelia fungivorella* (Clem.) – 2-VIII-2000 1.
 1796. *Coleotechnites blastovora* McLeod – 17-V-2000 1, 25-V-2000 1, 27-IV-2001 1.
 1946. *Gelechia lynceola* Zell. – 24-VII-2000 1.
 1985. *Gnorimoschema gallaeasterella* (Kellicott) – 22-VIII-2000 1.
 2000. *Gnorimoschema septentrionella* Fyles – 24-VII-2000 1.
 2090. *Chionodes lugubrella* (F.) – 11-VII-2000 1.
 2127. *Filatima abactella* (Clarke) – 25-V-2000 2, 6-VI-2000 1, 12-VI-2000 1, 27-VI-2000 1, 4-VII-2000 1.
 2291. *Dichomeris bilobella* (Zell.) – 15-VIII-2000 1.
 2300. *Dichomeris levisella* Fyles – 24-VII-2000 1.
 2302. *Dichomeris setosella* (Clem.) – 24-VII-2000 1.

ALUCITIDAE – Six Plume Moths

2313. *Alucita montana* Barnes & Lindsey – 15-VIII-2000 1. Bernard Landry and Jean-François Landry (2004) have shown that true *hexadactyla* does not occur in North America and that three other species occur in Alberta.

PLUTELLIDAE – Plutellid Moths

2371. *Ypsolopha canariella* (Wlsm.) – 24-VII-2000 3, 8-VIII-2000 1, 15-VIII-2000 1, 23-VIII-2000 1.
 2376. *Ypsolopha dentiferella* (Wlsm.) – 24-VII-2000 2, 2-VIII-2000 2, 8-VIII-2000 1, 22-VIII-2000 1.

ARGYRESTHIIDAE – Argyresthiid Moths

2467. *Argyresthia oreasella* (Clem.) – 15-VIII-2000 1.

TORTRICIDAE – Tortricid or Bell Moths

2743. *Endothenia nubilana* (Clem.) – 8-VIII-2000 1.
 2765. *Apotomis deceptana* (Kft.) – 24-VII-2000 1.
 2766. *Apotomis dextrana* McD. (Green Aspen Leafroller) – 11-VII-2000 1, 2-VIII-2000 1, 8-VIII-2000 1.
 2770. *Orthotaenia undulana* (D. & S.) (Dusky Leafroller) – 27-VI-2000 1.
 2774-2859. *Olethreutes* spp. – 12-VI-2000 1, 4-VII-2000 2, 11-VII-2000 5, 24-VII-2000 1. Many of the species in this genus are difficult to identify and require genitalic examination.
 2861. *Hedya ochroleucana* (Frölich) – 11-VII-2000 6, 24-VII-2000 3, 2-VIII-2000 1.
 2985. *Phaneta infimbriana* (Dyar) – 8-VIII-2000 1.
 3014. *Eucosma ridingsiana* (Rob.) – 15-VIII-2000 1.
 3042. *Eucosma vagana* McD. – 24-VII-2000 1.
 3211. *Notocelia culminana* (Wlsm.) – 15-VII-2000 1, 24-VII-2000 2, 2-VIII-2000 3, 8-VIII-2000 4, 23-VIII-2000 1.
 3223. *Gypsonoma fasciolana* (Clem.) – 12-VI-2000 2, 27-VI-2000 1, 4-VII-2000 1, 11-VII-2000 1.
 3227. *Gypsonoma substitutionis* Heinr. – 24-VII-2000 2.
 3248. *Pseudexentera oregonana* (Wlsm.) (Early Aspen Leafroller) – 31-III-2000 1, 7-IV-2000 4, 12-IV-2000 1, 19-IV-2000 4, 27-III-2001 10.
 3276. *Rhopobota naevana* (Haw.) – 23-VIII-2004 1.
 3288. *Epinotia castaneana* (Wlsm.) – 11-VII-2004 1, 24-VII-2004 1.
 3306. *Epinotia nisella* Cl. – 2-VIII-2000 7, 8-VIII-2000 8, 15-VIII-2000 5, 23-VIII-2004 2.
 3307. *Epinota criddleana* Kft. – 2-VIII-2000 3, 15-VIII-2000 4, 23-VIII-2000 2.
 3351. *Epinotia lindana* (Fern.) – 15-VIII-2000 1.
 3465. *Cydia flexiloqua* (Heinr.) – 11-VII-2000 1, 24-VII-2004 1, 8-VIII-2000 1, 15-VIII-2000 2.
 3466. *Cydia youngana* (Kft.) – 25-V-2000 1.
 3467. *Cydia nigricana* (F.) – 20-VI-2000 1.
 3502. *Croesia albicomana* (Clem.) – 11-VII-2000 1, 24-VII-2000 2, 18-VIII-2000 1.
 3506. *Acleris macdunnoughi* Obr. – 17-V-2000 1.
 3553. *Acleris bowmanana* McD. – 27-IV-2001 1
 3556. *Acleris nigrolinea* (Rob.) – 27-IV-2001 1.

3561. *Acleris hudsoniana* (Wlk.) complex – 27-IV-2001 2.
 3568. *Eana argentana* (Cl.) – 27-VI-2000 1.
 3595. *Pandemis canadana* Kft. (Green Aspen Leaf-tier) – 2-VIII-2000 2, 8-VIII-2000 1, 11-VIII-2000 1, 15-VIII-2000 1, 23-VIII-2000 1 and 24-VIII-2000 2.
 3635. *Choristoneura rosaceae* (Harr.) (Oblique-banded Leafroller) – 24-VII-2000 1.
 3648. *Archips argyrospila* (Wlk.) – 24-VII-2000 1.
 3682. *Clepsis persicana* (Fitch) (White-angle Tortrix) – 24-VII-2000 1, 2-VIII-2000 1.
 3684. *Clepsis clemensiana* (Fern.) – 24-VII-2000 1.
 3689. *Ptycholoma virescana* (Clem.) – 24-VII-2000 3.
 3706. *Sparganothis xanthoides* (Wlk.) – 11-VII-1000 1.
 3720. *Sparganothis reticulatana* (Clem.) – 8-VIII-2000 1, 15-VIII-2000 3, 22-VIII-2000 1, 23-VIII-2000 1.
 3740. *Platynota idaeusalis* (Wlk.) (Tufted Apple Bud Moth) – 24-VII-2000 2, 15-VIII-2000 1.

HESPERIIDAE – Skippers

3910. *Thorybes pylades* (Scudder) (Northern Cloudywing) – 22-VI-2000 2.
 4041. *Polites themistocles* (Latr.) (Tawny-edged Skipper) – 27-VI-2000 2.
 4043. *Polites mystic* (Edw.) (Long Dash Skipper) – 27-VI-2000 1.
 4059. *Poanes hobomok* (Harr.) (Hobomok Skipper) – 12-VI-2000 1.
 4078. *Euphyes vestris* (Bdv.) (Dun Skipper) – 20-VII-1999. This was a first record for Alberta (Bird 2000).

PIERIDAE – White and Sulphurs

4197. *Pieris rapae* (L.) (Cabbage Butterfly) – 12-VI-2000 1.
 4209. *Colias philodice* Godt. (Clouded Sulphur) – 20-VII-1999 SR, 6-VI-2000 1.

LYCAENIDAE – Blues and Coppers

4362. *Everes amyntula* (Bdv.) (Western Tailed Blue) – 6-VI-2000 1.

NYMPHALIDAE – Fritillaries and others

4429. *Polygonia progne* (Cram.) (Gray Comma) – 20-VI-2000 1.
 4433. *Aglais milberti* (Milbert's Tortoiseshell) – 20_VII-1999 SR.
 4451. *Speyeria aphrodite* (F.) (Aphrodite Fritillary) – 20-VII-1999 SR.
 4459s. *Speyeria electa lais* (Edw.) (Northwestern Fritillary) – 20-VI-2000 1, 27-VI-2000 1.
 4481. *Phyciodes tharos* (Drury) (Pearl Crescent) – 12-VI-2000 1.

- 4481.1. *Phyciodes cocyta* (Cram.) (Northern Pearl Crescent) – 20-VII-1999 SR, 20-VII-2000 1.
 4522. *Basilarchia arthemis* (Drury) (White Admiral) – 20-VII-1999 SR.

SATYRIDAE – Alpines and Arctics

4587. *Ceryonis pegala* (F.) (Meadow Brown) – 20-VII-1999 SR.

PYRALIDAE – Pyralid or Snout Moths

4716. *Scoparia biplagiata* Wlk. (Double-striped Scoparia) – 4-VII-2000 1, 11-VII-2000 1, 24-VII-2000 1, 2-VIII-2000 1, 15-VIII-2000 1.
 4958. *Anania funebris* Ström. (White-spotted Sable) – 20-VI-2000 1. The larvae of this beautiful little moth feed on goldenrod.
 4987. *Sitochroa chortalis* (Grt.) – 12-VI-2000 3.
 5074. *Pyrausta fodinalis* (Led.) – 27-VI-2000 1.
 5099. *Udea itysalis* (Wlk.) – 4-VII-2000 1.
 5128. *Choristostigma plumbosignalis* (Fern.) – 4-VII-2000 1, 11-VII-2000 2, 24-VII-2000 3.
 5156. *Nomophila nearctica* Mun. – 12-VI-2000 1.
 5343. *Crambus perlellus innotatellus* Wlk. – 24-VII-2000 1.
 5391. *Chrysoteuchia topiaria* (Zell.) (Cranberry Girdler) – 20-VI-2004 4, 27-VI-2000 5.
 5397. *Agriphila plumbifimbriella* (Dyar) – 4-VII-2000 1, 24-VII-2000 1 and 8-VIII-2000 2. The forewings lack the AM and PM lines usually associated with *A. ruricolella*. Some specimens have the ST lines usually associated with *A. plumbifimbriella*, though this line, if present, is faint. Most fresh specimens have a distinct yellowish-orange shade in the terminal area in which the seven black dots are found. *Agriphila ruricolella* lacks this feature. *Agriphila ruricolella* is basically an eastern species while *A. plumbifimbriella* is western. There are no known genitalic differences between the two species. Thus, taking everything into account, this material fits *plumbifimbriella* better than *zuricolella*.
 5410-5417. *Pediasia* sp. – 4-VII-2000 1. One of *Pediasia abnaki*, *aridella* or *laciniella*.
 5417. *Pediasia dorsipunctella* (Kft.) – 24-VII-2000 3, 2-VIII-2000 2.
 5718. *Myelopsis subtetricella* (Rag.) – 6-VI-2000 1.
 5721. *Apomyeloides bistriatella* (Hulst) – 24-VII-2000 1.
 5783. *Ortholepis pasadama* (Dyar) – 24-VII-2000 1.
 5968. *Zophodia grossulariella* (Hbn.) (Gooseberry Fruitworm Moth) – 12-V-2000 1, 27-IV-2001 3.
 5999. *Eulogia ochrifrontella* (Zell.) – 24-VII-2000 1.
 6038. *Anerastia lotella* (Hbn.) – 2-VIII-2004 2.

PTEROPHORIDAE – Plume Moths

6118. *Platyptilia pica* (Wlsm.) – 7-V-2000 1.

GEOMETRIDAE – Inchworm or Geometrid Moths

6270. *Protitame virginalis* (Hulst) (Virgin Moth) – 20-VI-2000 1, 27-VI-2000 1.
 6279. *Macaria occiduaria* (Pack.) (Western Sulphur) – 4-VII-2000 1, 24-VII-2000 1.
 6290. *Macaria loricaria* (Evers.) (False Bruce Spanworm) – 11-VII-2000 1, 24-VII-2000 1.
 6373. *Digrammia denticulata* (Grt.) (Striped Granite) – 6-VI-2000 1.
 6436. *Ematurga amitaria* (Gn.) (Cranberry Spanworm Moth) – 6-VI-2000 1.
 6640. *Biston betularia* (L.) (Salt-and-Pepper Moth) – 27-VI-2000 1.
 6651. *Lycia ursaria* (Wlk.) (The Bear or the Stout Spanworm Moth) - 27-IV-2000 2.
 6654. *Hypagyrtis unipunctata* (Haw.) (One-spotted Variant) – 11-VII-2000 2.
 6665. *Erannis tiliaria* (Harr.) (Linden Looper Moth) – 27-IX-2000 1.
 6677. *Cabera erythemaria* Gn. (Yellow-dusted Cream Moth) – 27-VI-2000 1, 4-VII-2000 1.
 6678. *Cabera variolaria* Gn. (Pale-striped Willow Spanworm) – 27-VI-2000 1, 11-VII-2000 2, 24-VII-2000 1, 8-VIII-2000 1.
 6726. *Euchlaena obtusaria* (Hbn.) (Obtuse Euchlaena) – 11-VII-2000 2, 24-VII-2000 1.
 6734. *Euchlaena madusaria* (Minot) (Ochre Euchlaena) – 6-VI-2000 3.
 6737. *Euchlaena tigrinaria* (Gn.) (Mottled Euchlaena or Variable Thorn) – 4-VII-2000 3.
 6743. *Xanthotype sospeta* (Drury) (Crocus Geometer) – 4-VII-2000 2, 11-VII-2000 2.
 6796. *Campaea perlata* (Gn.) (Pale Beauty or Fringed Looper Moth) – 4-VII-2000 1, 11-VII-2000 1, 2-VIII-2000 2.
 6797. *Ennomos magnaria* Gn. (Maple Spanworm) – 27-IX-2000 1.
 6817. *Selenia alciphearia* (Wlk.) (Northern Selenia) – 27-IV-2001 1.
 6818. *Selenia kentaria* (G. & R.) (Kent's Geometer) – 6-VI-2000 1, 27-IV-2001 1.
 6820. *Metanema determinata* Wlk. (Dark Metanema) – 27-VI-2001 1.
 6822. *Metarranthis duaria* (Gn.) (Ruddy Metarranthis) – 6-VI-2000 2.
 6836. *Anagoga occiduaria* (Wlk.) (American Barred Umber) – 6-VI-2000 1.
 6842. *Plagodis phlogosaria* (Gn.) (Straight-lined Plagodis) – 6-VI-2000 1.
 6912. *Sicya macularia* (Harr.) (Pink-barred Yellow) – 24-VII-2000 1, 2-VIII-2000 4.
 6954. *Synaxis jubararia* (Hulst) (October Thorn) – 12-IX-2000 1.
 6982. *Prochoerodes transversata* (Drury) (Large Maple Spanworm) – 2-VIII-2000 1, 8-VIII-2000 2, 15-VIII-2000 1, 23-VIII-2000 2.
 7009. *Nematocampa resistaria* (H.-S.) (Horned Soanworm Moth) – 24-VII-2004 1.
 7018. *Nemoria unitaria* (Pack.) – 24-VII-2000 1.
 7125. *Idea rotundopennata* (Pack.) (Round-winged Wave) – 20-VI-2000 3.
 7159. *Scopula limboundata* (Haw.) (Large Lace-border) – 24-VII-2000 1.
 7164. *Scopula junctaria* (Wlk.) (Simple Wave) – 27-VI-2004 1, 4-VII-2000 2, 24-VII-2000 2.
 7182. *Dysstroma citrata* (L.) (Dark Marbled Carpet) – 15-VIII-2000 1, 23-VIII-2004 4.
 7201. *Eulithis testata* (L.) (Chevron Moth) – 40-VIII-2004 1, 15-VIII-2004 1.
 7205. *Eulithis flavibrunneata* (McD.) – 8-VIII-2000 1.

7254. *Hydriomena ruberata* (Frey.) – 22-VI-2000 1.
 7329. *Anticlea vasiliata* Gn. (Variable Carpet) – 27-IV-2000 1.
 7395. *Epirrhoe plebeculata* (Gn.) (Orange-winged Carpet) – 2-V-2000 3.
 7399. *Euphyia unangulata* (Haw.) (Sharp-angled Carpet) – 4-VII-2000 1.
 7406. *Zenophleps lignicolorata* (Pack.) (Wood-colored Carpet) – 2-VIII-2000 4, 8-VIII-2000 2, 14-VIII-2000 1, 15-VIII-2000 3.
 7437. *Operophthera bruceata* (Hulst) (Bruce Spanworm) – 17-X-2000 1.
 7440. *Eubaphe mendica* (Wlk.) (The Beggar) – 11-VII-2000 1.
 7483. *Eupithecia regina* Tayl. – 27-VI-2000 1.
 7528. *Eupithecia assimilata* Dbldy. – 24-VII-2000 1.
 7594. *Eupithecia anticaria* Wlk. – 20-VI-2000 1, 4-VII-2000 1.
 7605. *Eupithecia ravocostaliata* Pack.) (Great Variegated Pug) – 27-IV-2001 1.

URANIIDAE – Uraniid Moths

7650. *Callizia amorata* (Pack.) (Gray Scoopwing) – 4-VII-2000 1.

LASIOCAMPIDAE – Tent Caterpillar and Lappet Moths

7687. *Phyllodesma americana* (Harr.) (Lappet Moth) – 250V02000 1, 6-VI-2000 1, 27-IV-2001 3.
 7698. *Malacosoma disstria* Hbn. (Forest Tent Caterpillar) – 24-VII-2000 1.

SATURNIIDAE – Giant Silkworm Moths

7757. *Antheraea polyphemus* (Cram.) (Polyphemus Moth) – 6-VI-2000 1.

SPHINGIDAE – Sphinx Moths

7821. *Smerinthus jamaicensis* (Drury) (Twin-spotted Sphinx) – 6-VI-2000 3, 12-VI-2000 5, 20-VI-2000 2.
 7822. *Smerinthus cerisyi* Kby. (One-eyed Sphinx) – 6-VI-2000 1, 12-VI-2000 1.
 7828. *Pachysphinx modesta* (Harr.) (Big Poplar Sphinx) – 6-VI-2000 1.

NOTODONTIDAE – Prominent Moths

7895. *Clostera albosigma* Fitch (Sigmoid Prominent) – 6-VI-2000 1, 20-VI-2000 1, 2-VII-2000 1, 24-VII-2000 3, 27-IV-2001 2.
 7915. *Nadata gibbosa* (J.E. Smith) (White-dotted Prominent) – 6-VI-2000 1, 12-VI-2000 1, 20-VI-2000 1, 27-VI-2000 2, 11-VII-2000 1.
 7922. *Pheosia rimosa* Pack. (Black-rimmed Prominent) – 20-VI-2000 1, 4-VII-2000 2, 11-VII-2000 1, 24-VII-2000 1.
 7928. *Notodonta simplaria* Graef (Simple Prominent) – 11-VII-2000 1.

7931. *Gluphisia septentrionis* Wlk. (Small Pebble or Common Gluphisia) – 6-VI-2000 1, 12-VI-2000 1, 20-VI-2000 2.
7934. *Gluphisia lintneri* (Grt.) (Lintner's Pebble) – 27-IV-2001 2.
7940. *Furcula scolopendrina* (Bdv.) (Poplar Kitten) – 20-VI-2000 1, 27-VI-2000 2, 11-VII-2000 1.
8007. *Schizura unicornis* (J.E. Smith) (Variegated Prominent or Unicorn Caterpillar Moth) – 29-VII-2000 1.

ARCTIIDAE – Tiger Moths and others

8043. *Eilema bicolor* (Grt.) (Bicolored Moth) – 24-VII-2000 1, 2-VIII-2000 1, 8-VIII-2000 1.
8098. *Clemensia albata* Pack. (Little White Lichen Moth) – 24-VII-2000 2, 2-VIII-2000 1.
8123. *Holomelina ferruginosa* (Wlk.) (Rusty Holomelina) – 11-VII-2000 3.
8127. *Parasemia plantaginis* (L.) (Black and White Tiger Moth) – 20-VI-2000 1.
8131. *Estigmene acraea* (Drury) (Salt Marsh Moth) – 6-VI-2000 1, 12-VI-2000 1.
8134. *Hyphantria congrua* (Wlk.) – 6-VI-2000 1, 12-VI-2000 2, 20-VI-2000 5, 27-VI-2000 1.
8158. *Phragmatobia assimilians* Wlk. (Large Ruby Tiger Moth) – 25-V-2000 1.
8162. *Platarctia parthenos* (Harr.) (St. Lawrence Tiger Moth) – 6-VI-2000 1, 12-VI-2000 2.
8196. *Grammia parthenice* (W. Kby.) (Parthenice Tiger Moth) – 8-VIII-2000 1.
8197. *Grammia virgo* (L.) (Virgin Tiger Moth) – 11-VII-2000 1, 2-VIII-2000 1.
8214. *Lophocampa maculata* Harr. (Spotted Tiger Moth) – 27-VI-2000 1.

LYMANTRIIDAE – Tussock Moths

8294. *Dasychira vagans* (B. & McD.) (Variable Tussock Moth) – 11-VII-2000 1, 24-VII-2000 1.

NOCTUIDAE – Owlet or Noctuid Moths

8322. *Idia americalis* (Gn.) American Snout Moth) – 11-VII-2000 2, 24-VII-2000 5, 2-VIII-2000 1, 8-VIII-2000 1, 15-VIII-2000 1.
8354. *Zanclognatha lualba* (Sm.) (The Canadian Zanclognatha) – 11-VII-2000 4.
8356. *Chytolita petrealis* Grt. (Lesser Luteous Snout) – 6-VI-2000 5, 27-VI-2000 1.
8362. *Phalaenostola metonalis* (Wlk.) (Pale Phalaenostola or Tufted Snout) – 4-VII-2000 1, 11-VII-2000 1.
8404. *Rivula propinqualis* Gn. (Yellow Snout Moth) – 11-VII-2000 1.
8413. *Mycterophora inexplicata* (Wlk.) (Pale-edged Snout Moth) – 11-VII-2000 1, 24-VII-2000 1.

8738. *Caenurgina crassiuscula* (Haw.) (Clover Looper Moth) – 12-VI-2000 3, 20-VI-2000 1, 27-VI-2000 2, 24-VII-2000 1.
8805. *Catocala unijuga* Wlk. (Once-married Underwing) – 15-VIII-2000 1.
8821. *Catocala semirelicta* Grt. (Semirelict Underwing) – 2-VIII-2000 1, 15-VIII-2000 1.
8881. *Abrastola urentis* Gn. (Variegated Brindle) – 6-VI-2000 1.
8899. *Pseudeva purpurigera* (Wlk.) (Straight-lined Looper Moth) – 2-VIII-2000 2.
8977. *Nycteola cinerea* (N. & D.) (Grey Midget) – 12-IX-2000 1.
9048. *Lithacodia albidula* (Gn.) (Common Midget) – 6-VI-2000 3, 12-VI-2000 1, 20-VI-2000 1, 27-VI-2000 2.
9193. *Raphia frater* Grt. (The Brother) – 6-VI-2000 3, 27-VI-2000 1, 21-VII-2000 2.
9212. *Acronicta grisea* (Wlk.) (Gray Dagger Moth) – 6-VI-2000 5, 12-VI-2000 2.
9241. *Acronicta fragilis* (Gn.) (Fragile Dagger Moth) – 6-VI-2000 1.
9257. *Acronicta impleta* Wlk. (Yellow-haired Dagger Moth) – 6-VI-2000 2, 12-VI-2000 1.
6261. *Acronicta impressa* Wlk. (Willow Dagger Moth) – 8-VIII-2000 1.
9359. *Apamea commoda* (Wlk.) Southern Quaker) – 24-VII-2000 2, 2-VIII-2000 1, 12-VIII-2000 1.
9362. *Apamea remissa* (Hbn.) (Ignorant Apamea) – 4-VII-2000 1, 28-VIII-2000 1.
9364. *Apamea finitima* (Gn.) (Bordered Apamea) – 6-VI-2000 1.
9369. *Apamea inficita* (Wlk.) (Inficita Quaker) – 24-VII-2000 4, 2-VIII-2000 3, 6-VIII-2000 1, 8-VIII-2000 1.
9382. *Apamea devastator* (Brace) (Glassy Cutworm Moth) – 2-VIII-2000 1, 15-VIII-2000 1.
9419. *Oligia mactata* (Gn.) (Prairie Quaker) – 15-VIII-2000 1.
9420. *Oligia illocata* (Wlk.) (Wandering Quaker) – 23-VIII-2000 1.
9450. *Archanara subflava* (Grt.) (Subflava Sedge Borer) – 8-VIII-2000 1, 14-VIII-2004 1.
9453. *Celaena reniformis* (Grt.) (Kidney-spotted Rustic) – 15-VIII-2000 1.
9457. *Amphipoea americana* (Speyer) (American Ear Moth) – 8-VIII-2000 1, 15-VIII-2000 1, 23-VIII-2000 1.
9550. *Enargia infumata* (Grt.) (Lesser Angle-striped Sallow) – 2-VIII-2000 1.
9555. *Ipimorpha pleonectusa* Grt. (Even-lined Sallow) – 2-VIII-2000 1, 8-VIII-2000 1, 12-IX-2000 1.
9579. *Hyppa contrasta* McD. (was *Hyppa* nr. *xylinoides* (Gn.) (Common Hyppa) – 6-VI-2000 1.
9647. *Proxenus miranda* (Grt.) (Glistening Rustic) – 11-VIII-2000 1.
9656. *Platyperigea montana* (Bremer) (Civil Rustic) – 15-VIII-2000 1.
9874. *Xylena curvimacula* (Morr.) (Dot and Dash Swordgrass Moth) – 27-IV-2000 1.
9876. *Xylena cineritia* (Grt.) (Western Swordgrass Moth) – 27-IV-2001 (2).
9884. *Litholomia napaea* (Morr.) (Dark Gray Peasant) – 10-X-2000 1, 27-IV-2001 3.
9962. *Anathix puta* (G. & R.) (Dusky Sallow) – 8-VIII-2000 1, 15-VIII-2000 2 and 23-VIII-2000 1.
9993. *Brachylomia populi* (Stkr.) (Cloaked Peasant) – 8-VIII-2000 1, 23-VIII-2000 1.
9998. *Brachylomia algens* (Grt.) (Willow Peasant) – 15-VIII-2000 1 and 23-VIII-2000 1.

10028. *Pleromelloida obliquata* (Sm.) (Oblique Rover) – 27-IV-2000 10.
 10065. *Homohadena infixa* (Wlk.) (Broad-lined Sallow) – 2-VIII-2000 1.
 10232. *Discestra farnhami* (Grt.) (Farnham's Discestra) – 6-VI-2000 1.
 10275. *Polia nimbosea* (Gn.) – 27-VI-2000 1, 4-VII-2000 2 and 11-VII-2000 3.
 10276. *Polia imbrifera* (Gn.) (Cloudy Arches) – 4-VII-2000 1, 11-VII-2000 1.
 10280. *Polia purpurissata* (Grt.) (Purple Arches) – 2-VIII-2000 2.
 10288. *Polia detracta* (Wlk.) (Disparaged Arches) – 27-VI-2000 2, 4-VII-2000 1.
 10292. *Melanchra adjuncta* (Gn.) (Hitched Arches) – 24-VII-2000 1.
 10295. *Melanchra assimilis* (Morr.) (Black Arches) – 12-VI-2000 1.
 10297. *Lacanobia atlantica* (Grt.) (Atlantic Arches) – 6-VI-2000 2.
 10301. *Spiranater lutra* (Gn.) – 4-VII-2000 1.
 10308. *Trichordestra liquida* (Grt.) (Liquid Arches) – 6-VI-2000 1.
 10368. *Lacinipolia meditata* (Grt.) (The Thinker or the Pink-backed Cutworm Moth) – 24-VII-2000 1, 2-VIII-2000 2.
 10370. *Lacinipolia lustralis* (Grt.) (Lustrous Arches) – 27-VI-2000 4 and 4-VII-2000 1.
 10397. *Lacinipolia renigera* (Steph.) (Kidney-spotted Arches or Bristly Cutworm Moth) – 11-VII-2000 1.
 10405. *Lacinipolia lorea* (Gn.) (Bridled Arches) – 27-VI-2000 1, 4-VII-2000 2.
 10406. *Lacinipolia olivacea* (Morr.) (Olive Arches) – 24-VII-2000 2, 2-VIII-2000 1, 8-VIII-2000 1, 15-VIII-2000 1.
 10431. *Faronta diffusa* (Wlk.) (Cloudy Wainscot or Wheat-head Armyworm Moth) – 6-VI-2000 1.
 10436. *Aletia oxygala* (Grt.) (Lesser Wainscot) – 4-VII-2000 1, 2-VIII-2000 2, 8-VIII-2000 1, 15-VIII-2000 1.
 10446. *Leucania multilinea* Wlk. (Many-lined Wainscot) – 24-VII-2000 1.
 10447. *Leucania commoides* Gn. (Comma Wainscot) – 2-VIII-2000 1, 8-VIII-2000 1.
 10449. *Leucania insueta* Gn. (Heterodox Wainscot) – 24-VII-2000 1.
 10471. *Stretchia plusiaeformis* Hy. Edw. (Gray Spectacles) – 27-IV-2000 6.
 10490. *Orthosia revicta* (Morr.) (Subdued Quaker) – 27-IV-2000 7.
 10493. *Orthosia segregata* (Sm.) (Segregate Penman) – 27-IV-2000 5.
 10493. *Orthosia segregata* f. *negussa* (Sm.) – 27-IV-2000 1.
 10513. *Egira dolosa* (Grt.) (Grieving Woodling) – 27-IV-2000 2.
 10563. *Protorthodes oviduca* (Gn.) (Ruddy Quaker) – 6-VI-2000 6.
 10651. *Agrotis venerabilis* Wlk. (Venerable Dart) – 15-VIII-2000 1.
 10670. *Feltia jaculifera* (Gn.) (Dingy Cutworm Moth) – 2-VIII-2000 1, 8-VIII-2000 1.
 10676. *Feltia herilis* (Grt.) (Master's Dart) – 24-VII-2000 3, 2-VIII-2000 2.
 10705. *Euxoa messoria* (Harr.) (Reaper Dart or Dark-sided Cutworm) – 12-IX-2000 1.
 10723. *Euxoa tristicula* (Morr.) (Three-marked Dart or Early Cutworm Moth) – 11-VII-2000 1.
 10756. *Euxoa campestris* (Grt.) (Flat Dart) – 8-VIII-2000 1.
 10801. *Euxoa ochrogaster* (Gn.) (Red-backed Cutworm Moth) – 2-VIII-2000 1, 14-VIII-2000 1, 15-VIII-2000 1.
 10910. *Anicla tepperi* (Sm.) (Black-girdled Dart) – 4-VII-2000 1.
 10921. *Diarsia rosaria* (Grt.) (Rosy Dart) – 6-VI-2000 1.

10926. *Spaelotis clandestina* (Harr.) (Clandestine Dart) – 6-VI-2000 1, 12-VI-2000 1, 4-VII-2000 1, 24-VII-2000 1.
10929. *Eurois occulta* (L.) (Great Grey Dart) – 27-VI-2000 1, 4-VII-2000 1, 2-VIII-2000 1, 12-IX-2000 1.
10930. *Eurois astricta* (Morr.) (Great Brown Dart) – 11-VII-2000 1, 2-VIII-2000 1.
10942. *Xestia c-nigrum* (Franc.) (Black-letter Dart) – 4-VII-2000 1, 2-VIII-2000 1.
10944. *Xestia smithii* (Snell) (Smith's Dart or Spotted Clay Dart) – 8-VIII-2000 2, 15-VIII-2000 3, 23-VIII-2000 1.
10951. *Pseudohermonassa tenuicula* (Morr.) (Hair-pin Dart) – 2-VIII-2000 1.
10954. *Agnorisma bugrai* (Koçak) (Collared Dart) – 8-VIII-2000 3, 14-VIII-2000 1, 15-VIII-2000 2, 23-VIII-2000 1.
10992. *Paradiarsia littoralis* (Pack.) (Labrador Dart) – 27-VI-2000 1, 4-VII-2000 1, 11-VII-2000 2, 2-VIII-2000 1.
10996. *Cerastis salicarum* (Wlk.) (Willow Dart) – 27-IV-2000 2.
11001. *Anaplectoides pressus* (Grt.) (Dappled Dart or Broad-winged Dart) – 24-VII-2000 1.
11004. *Protolampra rufipectus* (Morr.) (Red-breasted Dart) – 24-VII-2000 2, 2-VIII-2000 3, 8-VIII-2000 3.
11012. *Cryptocala acadensis* (Bethune) (Catocaline Dart) – 11-VII-2000 3, 24-VII-2000 3, 2-VIII-2000 1.

DISCUSSION

An analysis of the data from the present study of the moths encountered in twelve major study areas in south-central Alberta, reveals that the present area (LF) has less than 45% similarity to the other. As this study area has only aspen woods it has lower biodiversity than the other study areas.

SUMMARY

This report documents the presence of species of 236 moths and 16 butterflies and skippers in an area of aspen (*Populus tremuloides*) woods in south-central Alberta. To put things into perspective, Pohl et al (2010) document 2367 species of Lepidoptera for Alberta.

Of the 14 major areas involved in the present study, four species of moths were found only in the aspen woods of the former Lloyd Lohr Farm, SE of Erskine - sp. nr. *Caloptilia syringella* (F.), *Chionodes lugubrella* (F.), *Dichomeris bilobella* (Zell.) and *Ematurga amitaria* (Gn.).

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USEFUL ONLINE INFORMATION SOURCES ON MOTHS

Information on many of our Alberta moths can be found at the Entomology Collection Search site of the E.H. Strickland Entomological Museum of the Department of Biological Sciences at the University of Alberta: <http://www.entomology.ualberta.ca/>.

Illustrations of Alberta macromoths can be found at a site put together by D. Lafontaine and J. Troubridge called "The Moths of Canada": http://www.cbif.gc.ca/spp_pages/misc_moths/phps/mothindex_e.php.

Illustrations on many of the western American macromoths can also be found on a site put together by The Moth Photographers Group: <http://www.origins.tv/MothPhotographersGroup/WestPlates.htm>.

D. Lynn Scott has a web site with natural photos of over 400 species of moths that she has found in Ottawa, Ontario (<http://www.hei.ca/dls/mothindex.html>). As many of the species also occur in Alberta, these images can be quite helpful

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