

MOTHS OF AN ASPEN PARKLAND AREA 3 KM SOUTH OF NEVIS, ALBERTA, 2001-2005, 2011 update

Charles Durham Bird, 8 March 2012

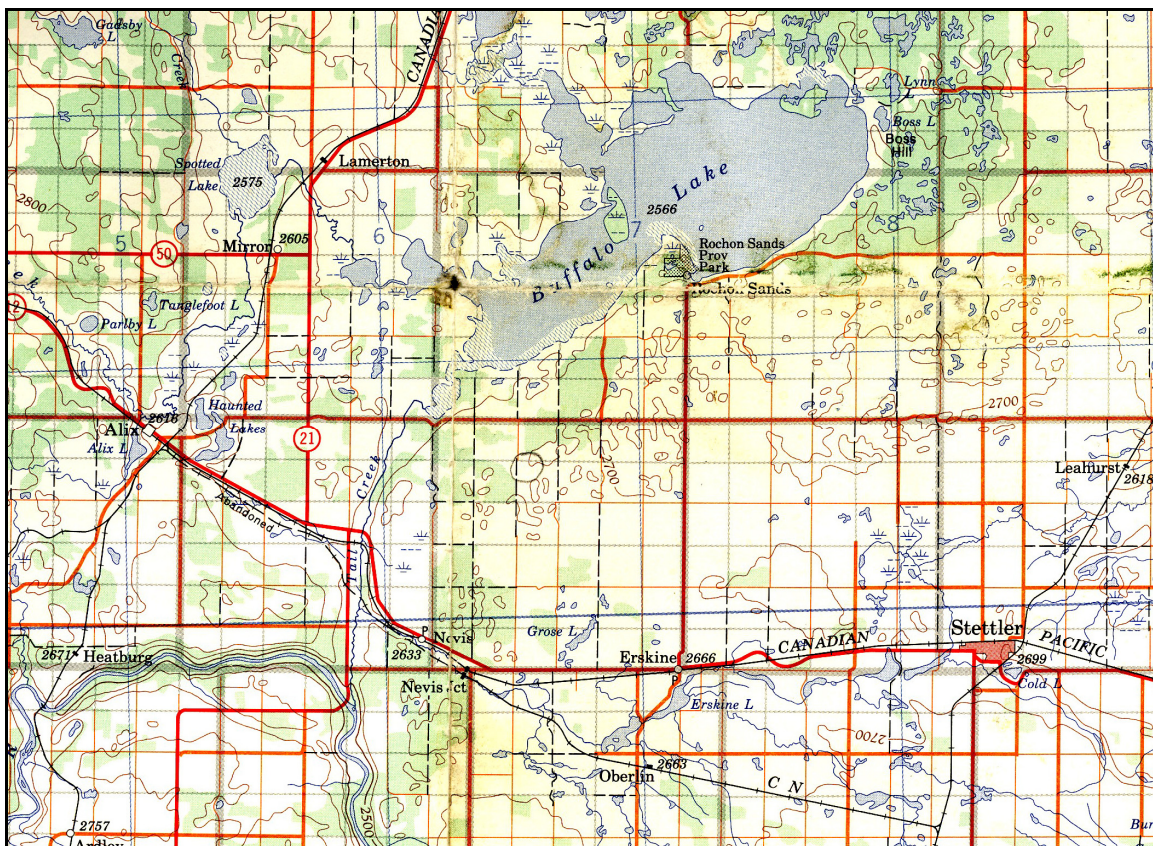
Box 22, Erskine, AB, T0C 1G0

cdbird@xplornet.com

The present paper incorporates a number of redeterminations and additions to the information in the reports of 2007, 2008 and 2009. It also follows the up-to-date order and taxonomy of Pohl et al. (2010), rather than that of Hodges et al. (1983).

THE AREA

An area of rolling Aspen Parkland 3 km south of Nevis, Alberta, was studied repeatedly from 2001 to 2005. It was an acreage owned by Allen and Laura Hall. GPS readings for the area rounded off to 52.31 N and 113.05 W with an elevation of 890 m, though Google Earth readings were 52.186 N, 113.017 W and 812 m. Moths were collected with ultraviolet light traps on 42 different collection nights, details of which appear in the Appendix. Voucher specimens are in the BIRD Collection.



Map showing the location of Nevis, Erskine, Stettler and Buffalo Lake in south-central Alberta. The present study area and the Buffalo Lake Moraine Conservation Area, which is on the east side of Buffalo Lake, are both examples of native Aspen Parkland.

While the grass in the acreage proper is mowed, natural areas of shrub and bush remain in and around the acreage. The traps were in all cases set up on the edge of the property so that they would be able to sample the moths in the adjoining, lightly grazed, native aspen parkland on land owned by the Church family. On the north, there is a south-facing hillside with native grasses and forbs, including a small stand of *Opuntia fragilis*. On the west, there is a low area which holds water in most years. Various of the collected moths are associated with the aquatic and subaquatic plants that are found there. On the south, southwest and northwest, there are stands of aspen. A patch of saskatoon and chokecherry is found in the acreage and near its western side.

The study area was an excellent choice because it had been little disturbed and also because the Halls kindly allowed access. The study ceased when the Hall's sold the acreage in 2006.

BACKGROUND

The writer, now retired and living in Erskine, Alberta, has had a long-time interest in the natural flora and fauna of the province. In the spring of 2000, he commenced an examination of the moths of south-central Alberta, the purpose of which was to document the species present in various natural areas. This is important as such native areas are rapidly disappearing because of clearing and cultivation and also because of over grazing by livestock. The writer is a member of the Alberta Lepidopterist's Guild, the purpose of which is to encourage the study of Alberta's moths and butterflies.

There is still much to be learned about the distribution and status of lepidopteran (moth and butterfly) species in south-central Alberta. Baseline studies provide information that helps characterize those species associated with various ecoregions, in the present case Aspen Parkland; determine status designations (abundant, common, rare, endangered) of various species; and allow the examination of many other parameters, including phenology, dry vs. wet years, and outbreaks of various species such as forest tent caterpillars.

SPECIMEN DISPOSITION

All specimens collected by the writer presently reside in his collection but most will eventually go to the University of Alberta Strickland Museum (UASM), and some will be deposited in the Canadian National Collection (CNC) in Ottawa and the Northern Forest Research Centre (NFRC) in Edmonton. All specimens have been databased and the information on verified material can be viewed at <http://www.entomology.ualberta.ca/searching.php>.

THE FOLLOWING CHECKLIST

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). This list incorporates recent changes in taxonomy of all groups according to various literature sources, including those listed for the Noctuoidea by Lafontaine & Schmidt (2010). In previous reports, the order and terminology, were that of the "Check List of the Lepidoptera of America North of Mexico" (1983) edited by R.W. Hodges. The species order and taxonomy in this report

is that of Pohl et al (2010) followed by that in Hodges (1983). Common names are mentioned in those cases where such names are known.

The order and terminology, is that of R.W. Hodges (1983) except where recent changes in taxonomy have occurred. While most of the larger (macromoths) are relatively well known, the same cannot be said for many of the smaller micromoths. Identifications, especially of the latter, can, at times, 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 found herein should be regarded as tentative. The scientific names of the species are followed by the day-month-year of the collection and the number of individuals mounted; an "SR" indicates a sight record. Common names are mentioned in those cases where such names exist.

HEPIALIDAE – Ghost Moths

5. *Gazoryctra novigannus* (B. & Benj.) (29. *Gazoryctra novigannus* (B. & Benj.)) – 22-VIII-2002 1, 3-IX-2002 2, 15-IX-2002 1 and 7-IX-2005 1.
 8. *Sthenopsis purpurascens* (Pack.) (19. *Sthenopsis purpurascens* (Pack.)) (Large Ghost Moth) – 20-VII-2001 1, 2-VII-2002 1 and 22-VII-2002 1.

PRODOXIDAE – Prodoxid Moths

Prodoxidae, Lamproniinae

21. *Lampronia aenescens* (Wlsm.) (184. *Lampronia aenescens* (Wlsm.)) – 14-VI-2002 2.

TINEIDAE – Clothes Moths and others

Tineidae, Tineinae

- Species indet. – 31-VII-2001 2.
 44. *Tinea irrepta* Braun (399. *Tinea irrepta* Braun) – 20-VII-2001 1, 14-VI-2002 1, 25-VI-2002 1, 3-IX-2002 2, 16-VI-2003 3, 1-VII-2003 2, 16-VII-2003 1, 29-VII-2003 1, 29-VIII-2003 2, 24-VI-2004 1, 28-IX-2004 1, 13-VI-2005 2, 26-VII-2005 1 and 4-VIII-2005 1.
 49. *Monopis laevigella* (D. & S.) (Not in Hodges) – 29-VII-2004 1 and 1-VII-2005 1.
 51. *Monopis spilotella* (Teng.) (421. *Monopis spilotella* Tengström) – 20-VII-2001 1, 25-VI-2002 2, 6-VIII-2002 2, 1-VII-2003 2, 26-VII-2005 1, 4-VIII-2005 2.

ACROLOPHIDAE – Tube Moths

54. *Amydria effrentella* Clem. (334. *Amydria effrentella* Clem.) – 20-VII-2001 1, 6-VIII-2002 1, 15B-IX-2002 2, 11-VII-2003 1 and 16-VII-2005 1.

YPONOMEUTIDAE – Yponomeutid Moths

Yponomeutidae, Yponomeutinae

- Species indet. – 20-VII-2001 1.
 90. *Swammerdamia caesiella* (Hbn.) (2413. *Swammerdamia caesiella* (Hbn.)) – 25-VI-2002 1.

Yponomeutidae, Argyresthiinae

96. *Argyresthia conjugella* Zell. (2449. *Argyresthia conjugella* Zell.) (Apple Fruit Moth) – 2-VI-2002 2? and 16-VII-2003 1.

YPSOLOPHIDAE – Falcate-winged Moths**Ypsolophidae, Ypsolophinae**

104. *Ypsolopha canariella* (Wlsm.) (2371. *Ypsolopha canariella* (Wlsm.)) (Canary Ypsolopha Moth) – 31-VII-2001 2, 16-VII-2005 1 and 26-VII-2005 1.
 106. *Ypsolopha dentiferella* (Wlsm.) (2376. *Ypsolopha dentiferella* (Wlsm.)) – 31-VII-2002 1, 22-VII-2002 2, 22-VIII-2002 1, 29-VII-2003 1 and 26-VII-2005 1.

PLUTELLIDAE – Plutellid Moths

114. *Plutella xylostella* (L.) (2366. *Plutella xylostella* (L.)) (Diamondback Moth) – 20-VII-2001 1, 13-IX-2001 1, 15-IX-2002 1, 1-VII-2003 1, 29-VIII-2003 1, 11-V-2005 1, 1-VI-2005 1, 16-VII-2005 1, 26-VII-2005 1 and 4-VIII-2005 1.
 115. *Pseudoplutella porectella* (L.) (2363. *Plutella porectella* (L.)) – 31-VII-2001 1.

ELACHISTIDAE – Concealer Moths**Elachistidae, Depressariinae**

143. *Depressariodes ciniflonella* (Lienig & Zell.) (908. *Depressariodes ciniflonella* (Lienig & Zell.)) – 27-V-2002 1, 11-IV-2003 1, 20-IV-2003 1 and 29-VII-2003 1.
 144. *Depressariodes fulva* (Wlsm.) (910. *Martyrhilda fulva* (Wlsm.)) – 13-VI-2005 2 and 4-VIII-2005 1.
 146. *Semioscopis packardella* (Clem.) (912. *Semioscopis packardella* (Clem.)) (Packard's Concealer Moth) – 27-V-2002 1.
 148. *Semioscopis inornata* Wlsm. (914. *Semioscopis inornata* Wlsm.) – 28-IV-2003 1.
 150. *Semioscopis aurorella* Dyar (916. *Semioscopis aurorella* Dyar) – 27-V-2002 1.
 155. *Depressaria alienella* Bsk. (926. *Depressaria alienella* Bsk.) – 28-IX-2004 1.

Elachistidae, Elachistinae

- Elachista* sp. – 25-VI-2002 1 and 11-V-2005 1.

GLYPHIDOCERIDAE - Glyphidocerid Moths

189. *Glyphidocera hurlberti* Adamski (Not in Hodges) – 20-VII-2001 1, 22-IX-2002 1, 15B-IX-2002 1, 1-VII-2003 1, 11-VII-2003 2, 16-VII-2003 3, 29-VII-2003 1, 16-VII-2005 4, 26-VII-2005 2 and 7-IX-2005 1. This species was described by Adamski in 2000.

COLEOPHORIDAE – Coleophorid Moths

Coleophoridae, Coleophorinae

- Coleophora* spp. – 20-VII-2001 1, 31-VII-2001 2, 25-VI-2002 1, 16-VII-2003 1, 29-VII-2003 2, 26-VII-2005 4 and 4-VIII-2005 1. These specimens are currently with Dr. J.-F. Landry who is doing a North American monograph of the group. At least some of the JFL entities mentioned below are undescribed.
- 196.9. *Coleophora multipulvella* Cham.) (1254. *C. malivorella* Riley) – 11-VII-2003 1. Reported as new for Alberta in Pohl et al 2011.
199. *Coleophora pruniella* Clem. (1271. *Coleophora pruniella* Clem.) (Cherry Case-bearer) – 1-VII-2003 1 and 16-VII-2003 1.
- 200.1. *Coleophora cretaticostella* Clem. (1283. *Coleophora cretaticostella* Clem.) – 25-VI-2002 1. Reported as new for Alberta in Pohl et al 2011.
- 202.1. *Coleophora kearfottella* B. & Bsk. (1290. *Coleophora kearfottella* B. & Bsk.) – 11-VII-2003 1. Reported as new for Alberta in Pohl et al 2011.
208. *Coleophora rosacella* Clem.) (1316. *Coleophora rosacella* Clem.) – 11-VII-2003 1.
- 209.1. *Coleophora sparsipuncta* Heinr. (1323. *Coleophora sparsipuncta* Heinr.) – 31-VII-2001 2, 22-VII-2002 1, 22-VIII-2002 2, 29-VII-2003 1 and 26-VII-2005 1. Reported as new for Alberta in Pohl et al 2011.
- 210.1. *Coleophora seminella* McD. (1325. *Coleophora seminella* McD.) – 11-VII-2003 1. Reported as new for Alberta in Pohl et al 2011.
214. *Coleophora sparsipulvella* (Cham.) (1352. *Coleophora sparsipulvella* Cham.) – 29-VII-2003 1, 16-VII-2005 1 and 26-VII-2005 2.
222. *Coleophora trifolii* (Curt.) (1388. *Coleophora trifolii* (Curt.)) (Large Clover Case-bearer) – 20-VII-2001 2, 7-VII-2002 1, 1-VII-2003 2, 16-VII-2003 1 and 26-VII-2005 1.
- Coleophora* JFL002 – 30-VII-2001 1.
- Coleophora* JFL013 – 11-VII-2003 1.
- Coleophora* JFL023 – 1-VII-2003 1 and 11-VII-2003 1.
- Coleophora* JFL035 – 31-VII-2001 1.
- Coleophora* JFL092 – 31-VII-2001 1, 22-VIII-2002 1 and 29-VII-2003 1.

Coleophoridae, Blastobasinae

This group is being monographed by Dr. David Adamski for the Moths of North America series. All determinations in this group must be regarded as tentative pending the completion of the abovementioned monograph. Specimens from the BIRD Collection are currently with Dr. Adamski.

Species indet. – 22-VIII-2002 1.

233. *Holcocera immaculella* McD. (1221. *Holcocera immaculella* McD.) – 3-IX-2002 3 and 15B-IX-2002 10.

COSMOPTERYGIDAE – Cosmopterygid Moths

Cosmopterigidae, Cosmopteriginae

241. *Limnaecia phragmitella* Staint. (1515. *Limnaecia phragmitella* Staint.) (Shy Cosmet Moth) – 22-VIII-2002 1.

Cosmopterigidae, Chrysopeliinae

242. *Walshia miscecolorella* (Cham.) (1615. *Walshia miscecolorella* (Cham.)) (Sweetclover Root Borer Moth) – 1-VII-2003 3.

GELECHIIDAE – Gelechiid Moths

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.

- Species indet. – 20-VII-2001 1, 31-VII-2001 1, 140-VI-2002 2, 25-VI-2002 8, 7-VII-2002 3, 6-VIII-2002 1, 22-VIII-2002 6, 3-VII-2003 4, 11-VII-2003 4, 16-VII-2003 3, 29-VII-2003 2, 29-VIII-2003 1, 28-IX-2004 5, 11-V-2005 1, 1-VI-2005 1, 16-VII-2005 8 and 26-VII-2005 4.

Gelechiidae, Gelechiinae, Anomologini

248. *Aristotelia devexella* Braun (1734. *Aristotelia devexella* Braun) – 6-VIII-2002 1, 11-VII-2003 1, 29-VII-2003 3, 16-VII-2005 1 and 26-VII-2005 4.

Gelechiidae, Gelechiinae, Gelechiini

282. *Gelechia lynceella* Zell. (1946. *Gelechia lynceella* Zell.) – 1-VII-2003 1.

Gelechiidae, Gelechiinae, Gelechiini

291. *Chionodes obscuruscella* (Cham.) (2099. *Chionodes obscuruscella* (Cham.)) (Boxelder Leafworm) – 30B-VII-2005 1.
 292. *Chionodes mediofuscella* (Clem.) (2093. *Chionodes mediofuscella* (Clem.)) – 16-VI-2003 1, 1-VII-2003 1 and 1-VI-2005 1.
 293. *Chionodes terminimaculella* (Kft.) (2117. *Chionodes terminimaculella* (Kft.)) – 25-VI-2002 1.
 300. *Chionodes psiloptera* (B. & Bsk.) (2111. *Chionodes psilopterus* (B. & Bsk.)) – 20-VII-2001 2, 14-VI-2002 2, 7-VII-2002 1, 22-VII-2002 2, 1-VII-2003 2, 11-VII-2003 2, 29-VII-2003 2, 24-VI-2004 2, 1-VI-2005 2, 16-VII-2005 2, 26-VII-2005 1 and 4-VIII-2005 2.
 317. *Filatima abactella* (Clarke) (2127. *Filatima abactella* (Clarke)) – 27-V-2002 1, 14-VI-2002 1, 25-VI-2002 2, 7-VII-2002 1, 22-VIII-2002 1, 27-V-2003 3, 16-VI-2003 2, 1-VII-2003 1, 27-V-2004 1, 24-VI-2004 1, 11-V-2005 1, 1-VI-2005 1 and 13-VI-2005 1.

Gelechiidae, Gelechiinae, Gnorimoschemini

The Alberta members of this group are presently being studied by Vazrick Nazari. A number of new species will be described.

328. *Gnorimoschema gallaeasterella* (Kell.) (1985. *Gnorimoschema gallaeasterella* (Kell.) – 4-VIII-2005 1.
 332. *Gnorimoschema septentrionella* Fyles (2000. *Gnorimoschema septentrionella* Fyles) – 26-VII-2005 1 and 4-VIII-2005 2.
 334. *Gnorimoschema vastificum* Braun (2008. *Gnorimoschema vastificum* Braun) – 16-VII-2003 1? and 29-VII-2003 1?

Gelechiidae, Dichomeridinae

358. *Dichomeris purpureofusca* (Wlsm.) (2308. *Dichomeris purpureofusca* (Wlsm.)) – 1-VII-2003 1.

TORTRICIDAE – Tortricid Moths

Species indet. – 31-VII-2001 1.

Tortricidae, Tortricinae, Tortricini

403. *Acleris albicomana* (Clem.) (3502. *Croesia albicomana* (Clem.)) – 16-VII-2005 2, 26-VII-2005 2 and 14-VIII-2005 1.

411. *Acleris fuscana* (B. & Bsk.) or 414. *Acleris cornana* (McD.) (3520 *Acleris fuscana* (B. & Bsk.) or 3523. *Acleris cornana* (McD.)) – 29-VIII-2001 2.

419. *Acleris fragariana* Kft. (3532. *Acleris fragariana* Kft.) – 7-IX-2005 1.

422. *Acleris robinsoniana* (Fbs.) (3536. *Acleris robinsoniana* (Fbs.)) – 4-VIII-2005 1 and 7-IX-2005 1.

436. *Acleris nigrolinea* (Rob.) (3556. *Acleris nigrolinea* (Rob.)) – 27-V-2003 2.

Tortricidae, Tortricinae, Cochylini

The members of this group are presently being revised by Dr. Eric Metzler and Dr. John Brown. Some of the following specimens are presently with them.

Phtheochroa sp. – 7-VII-2002 1.

443. *Phtheochroa fulviplicana* (Wlsm.) (3792. *Hysterosia fulviplicana* (Wlsm.)) – 22-VII-2002 2 and 11-VII-2003 1.

446. *Phtheochroa vitellinana* (Zell.) (3787. *Carolella vitellinana* (Zell.)) – 7-VII-2002 1.

448. *Phtheochroa waracana* Kft. (3796. *Hysterosia waracana* Kft.) – 20-VII-2001 1, 15-IX-2002 1 and 1-VII-2003 1.

Tortricidae, Tortricinae, Cnephasiini

469. *Decodes horariana* (Wlsm.) 3580. *Decodes horarianus* (Wlsm.) – 15-IX-2002 5, 28-IX-2004 4 and 7-IX-2005 1.

Tortricidae, Tortricinae, Archipini

472. *Pandemis canadana* Kft.) (3595. *Pandemis canadana* Kft.) (Green Aspen Leaf-tier Moth) – 31-VII-2001 2, 7-VII-2002 1, 26-VII-2005 3 and 4-VIII-2005 1.

483. *Choristoneura rosaceana* (Harr.) (3635. *Choristoneura rosaceana* (Harr.)) (Oblique-banded Leafroller Moth) – 20-VII-2002 1, 31-VII-2001 2, 7-VII-2002 2, 6-VIII-2002 2, 11-VII-2003 1, 16-VII-2003 3 and 16-VII-2005 1.

485. *Choristoneura conflictana* (Wlk.) (3637. *Choristoneura conflictana* (Wlk.)) (Large Aspen Tortrix) – 25-VI-2002 40 SR, 16-VII-2003 4 SR and 16-VII-2005 1.

499. *Archips purpurana* (Clem.) (3658. *Archips purpurana* (Clem.)) – 16-VII-2003 1 and 4-VIII-2005 1.

508. *Clepsis persicana* (Fitch) (3682. *Clepsis persicana* (Fitch)) (White-angle Tortrix Moth, White-triangle Leafroller) – 25-VI-2002 2, 7-VII-2002 2, 22-VII-2002 1 and 11-VII-2003 3.

509. *Clepsis clemensiana* (Fern.) (3684. *Clepsis clemensiana* (Fern.)) (Clemen's Clepsis Moth) – 31-VII-2001 1 and 7-VII-2002 1.
512. *Ptycholoma peritana* (Clem.) (3688. *Ptycholoma peritana* (Clem.)) (Garden Tortrix Moth) – 20-VII-2001 1, 31-VII-2001 1, 22-VII-2002 1, 6-VIII-2002 1, 11-VII-2003 1, 16-VII-2003 1, 29-VII-2003 1 and 26-VII-2005 1.
513. *Ptycholoma virescana* (Clem.) (3689. *Ptycholoma virescana* (Clem.)) – 20-VII-2001 1, 22-VIII-2002 1, 15-IX-2002 1 and 29-VII-2003 1.

Tortricidae, Tortricinae, Sparganothidini

516. *Sparganothis sulfureana* (Clem.) (3695. *Sparganothis sulfureana* (Clem.)) (Sparganothis Fruitworm Moth) – 22-VII-2002 1.
518. *Sparganothis xanthoides* (Wlk.) (3706. *Sparganothis xanthoides* (Wlk.)) (Mosaic Sparganothis Moth) – 16-VII-2003 1 and 26-VII-2005 2.
520. *Sparganothis unifasciana* (Clem.) 3711. *Sparganothis unifasciana* (Clem.) (One-lined Sparganothis Moth) – 7-VII-2002 1, 22-VII-2002 2, 1-VII-2003 4, 11-VII-2003 1, 16-VII-2005 3, 26-VII-2005 1 and 4-VIII-2005 1.
521. *Sparganothis vocaridorsana* Kft. (3712. *Sparganothis vocaridorsana* Kft.) – 16-VI-2003 1 and 1-VII-2003 1.
522. *Sparganothis reticulatana* (Clem.) (3720. *Sparganothis reticulatana* (Clem.)) (Reticulated Fruitworm Moth) – 31-VII-2001 1 and 22-VII-2002 1.
523. *Platynota idaeusalis* (Wlk.) (3740. *Platynota idaeusalis* (Wlk.)) (Tufted Apple Bud Moth) – 1-VII-2003 1 and 11-VII-2003 1.

Tortricidae, Olethreutinae, Endotheniini

538. *Bactra verutana* Zell. (2707. *Bactra verutana* Zell.) (Javelin Moth) – 25-VI-2002 1.

Tortricidae, Olethreutinae, Olethreutini

547. *Apotomis removana* (Kft.) (2766. *Apotomis dextrana* McD.) (Green Aspen Leafroller Moth) – 20-VII-2001 1.
551. *Apotomis capreana* (Hbn.) (2753. *Apotomis capreana* (Hbn.)) (Sallow Apotomis Moth) – 20-VII-2001 1.
556. *Pseudosciaphila duplex* (Wlsm.) (2769. *Pseudosciaphila duplex* (Wlsm.)) (Spotted Leafroller, Poplar Leafroller Moth) – 25-VI-2002 3, 7-VII-2002 1, 1-VII-2003 2 and 26-VII-2005 1.
557. *Orthotaenia undulana* (D. & S.) (2770. *Orthotaenia undulana* (D. & S.)) (Dusky Leafroller Moth) – 6-VIII-2002 1, 22-VIII-2002 1, 16-VI-2003 1, 1-VII-2003 1, 24-VI-2004 1 and 13-VI-2005 3.
- Olethreutes* spp. – 20-VII-2001 3, 25-VI-2002 1, 7-VII-2002 1, 22-VII-2002 1, 22-VIII-2002 1, 11-VII-2003 4, 29-VII-2003 3, 16-VII-2005 4 and 26-VII-2005 2.
562. *Olethreutes appendiceum* (Zell.) (2821. *Olethreutes appendicea* (Zell.)) (Serviceberry Olethreutes Moth) – 20-VII-2001 1.
566. *Olethreutes galaxana* Kft. (2835. *Olethreutes galaxana* Kft.) – 7-VII-2002 1.
575. *Olethreutes bipartitana* (Clem.) (2848. *Olethreutes bipartitana* (Clem.)) (Divided Olethreutes Moth) – 20-VII-2001 1.
584. *Hedya ochroleucana* (Frölich) (2861. *Hedya ochroleucana* (Frölich)) (Off-white Hedya Moth) – 7-VII-2002 2 and 26-VII-2005 1.

585. *Hedya nubiferana* (Haw.) (2862. *Hedya nubiferana* (Haw.)) (Marbled Orchard Tortrix Moth) – 22-VII-2002 1, 22-VIII-2002 1 and 16-VII-2005 1.

Tortricidae, Olethreutinae, Enarmoniini

595. *Ancylis comptana* (Frölich) (3374. *Ancylis comptana* (Frölich)) (Strawberry Leafroller Moth) – 13-VI-2005 1.

601. *Ancylis mediofasciana* (Clem.) (3384. *Ancylis mediofasciana* (Clem.)) – 14-VI-2002 1 and 1-VI-2005 1.

604. *Hystriophora stygiana* (Dyar) (3391. *Hystriophora stygiana* (Dyar)) – 26-VII-2005 1.

Tortricidae, Olethreutinae, Eucosmini

616. *Phaneta awemeana* (Kft.) (2911. *Phaneta awemeana* (Kft.)) – 14-VI-2002 2.

618. *Phaneta umbrastriana* (Kft.) (2913. *Phaneta umbrastriana* (Kft.)) – 13-VI-2005 2.

626. *Phaneta marmontana* (Kft.) (2933. *Phaneta marmontana* (Kft.)) – 20-VII-2001 1 and 16-VII-2005 1.

628. *Phaneta parmatana* (Clem.) (2937. *Phaneta parmatana* (Clem.)) – 26-VII-2005 1.

631. *Phaneta lapidana* (Wlsm.) (2949. *Phaneta lapidana* (Wlsm.)) – 7-IX-2005 1.

643. *Phaneta indagatricana* (Heinr.) (2969. *Phaneta indagatricana* (Heinr.)) – 16-VII-2003 3.

644. *Phaneta dorsiatomana* (Kft.) (2972. *Phaneta dorsiatomana* (Kft.)) – 25-VI-2002 1 and 7-VII-2002 6.

645. *Phaneta striatana* (Clem.) (2973. *Phaneta striatana* (Clem.)) (Striated Phaneta Moth) – 7-VII-2002 1.

648. *Phaneta pallidicostana* (Wlsm.) (2980. *Phaneta pallidicostana* (Wlsm.)) – 20-VII-2001 3, 7-VII-2002 4, 22-VII-2002 2, 1-VII-2003 1, 11-VII-2003 4, 16-VII-2003 1, 16-VII-2005 1 and 26-VII-2005 4.

Not in Pohl et al. (2983. *Phaneta salmicolorana* (Heinr.)) – 16-VII-2003 1.

649. *Phaneta artemisiana* (Wlsm.) (2984. *Phaneta artemisiana* (Wlsm.)) – 18-VII-2004 1.

650. *Phaneta infimbriana* (Dyar) (2985. *Phaneta infimbriana* (Dyar)) – 16-VII-2005 1.

656. *Eucosma ridingsana* (Rob.) (3014. *Eucosma ridingsana* (Rob.)) (Riding's Eucosma Moth, Snakeweed Borer Moth) – 26-VII-2005 4 and 4-VIII-2005 1.

664. *Eucosma agricolana* (Wlsm.) (3037. *Eucosma agricolana* (Wlsm.)) – 25-VI-2002 2, 7-VII-2002 1, 1-VII-2003 4, 29-VII-2003 1, 13-VI-2005 3, 16-VII-2005 2 and 26-VII-2005 1.

683. *Eucosma dorsisignatana* (Clem.) (3116. *Eucosma dorsisignatana* (Clem.)) (Triangle-backed Eucosma Moth) – 29-VIII-2001 3 and 15-IX-2002 1.

685. *Eucosma juncticiliana* (Wlsm.) (3119. *Eucosma juncticiliana* (Wlsm.)) – 26-VII-2002 2.

692. *Eucosma cataclystana* (Wlk.) (3142. *Eucosma cataclystana* (Wlk.)) (Solidago Eucosma Moth) – 6-VIII-2002 1, 1-VII-2003 1, 16-VII-2003 1 and 29-VII-2003 1.

709. *Notocelia culminana* (Wlsm.) (3211. *Notocelia culminana* (Wlsm.)) – 31-VII-2001 1, 6-VIII-2002 2, 22-VIII-2002 3, 29-VII-2003 2 and 26-VII-2005 3.

710. *Gypsonoma fasciolana* (Clem.) (3223. *Gypsonoma fasciolana* (Clem.)) – 14-VI-2002 6.

714. *Gypsonoma substitutionis* Heinr. (3227. *Gypsonoma substitutionis* Heinr.) – 26-VII-2005 1.

725. *Pseudexentera oregonana* (Wlsm.) (3248. *Pseudexentera oregonana* (Wlsm.)) (Early Aspen Leaf Roller Moth) – 26-IV-2001 1, 11-IV-2003 2 and 20-IV-2003 1.

733. *Epinotia castaneana* (Wlsm.) (3288. *Epinotia castaneana* (Wlsm.)) – 1-VII-2003 1.

740. *Epinotia nisella* Cl. (3306. *Epinotia nisella* Cl.) (Variable Tortrix Moth, Poplar Branchlet Borer Moth, Yellow-headed Aspen Leaf-tier) – 20-VII-2001 1, 31-VII-2001 1, 6-VIII-2002 1 and 29-VII-2003 1.

741. *Epinotia criddleana* Kft. (3307. *Epinotia criddleana* Kft.) – 26-VII-2003 1.
 743. *Epinotia transmissana* (Wlk.) (3310. *Epinotia transmissana* (Wlk.)) (Walker's Epinotia Moth) – 11-VII-2003 1.
 753. *Epinotia lomonana* (Kft.) (3342. *Epinotia lomonana* (Kft.)) – 28-IX-2004 2.
 757. *Epinotia lindana* (Fern.) (3351. *Epinotia lindana* (Fern.)) (Diamondback Epinotia Moth) – 22-VIII-2002 1.

Tortricidae, Olethreutinae, Grapholitini

779. *Cydia populana* (Bsk.) (3463. *Cydia populana* (Bsk.)) – 7-VII-2002 1.
 780. *Cydia flexiloqua* (Heinr.) (3465. *Cydia flexiloqua* (Heinr.)) – 20-VII-2002 1 and 31-VII-2001 1.

EPERMENIIDAE – Epermeniid Moths

791. *Ochromolopis ramapoella* (Kft.) (2334. *Ochromolopis ramapoella* (Kft.)) – 25-VI-2002 1, 7-VII-2002 2 and 13-VI-2005 1.

ALUCITIDAE – Many Plume Moths

B. Landry and J.-F. Landry (2004) have shown that true *A. hexadactyla* does not occur in North America and that instead we have three other species, all of which are known from Alberta.

792. *Alucita montana* Barnes & Lindsay (2313. *Alucita hexadactyla* (L.)) – 13-IX-2001 1, 14-VI-2002 1, 7-VII-2002 1, 22-VIII-2002 1, 3-IX-2002 1, 15-IX-2002 2, 16-VI-2003 2 and 27-V-2004 1.

PTEROPHORIDAE – Plume Moths

Species indet. – 1-VI-2005 1, 13-VI-2005 1, 16-VII-2005 3, 26-VII-2005 1 and 4-VIII-2005 1. These specimens are being studied by Doug Macaulay.

Pterophoridae, Pterophorinae, Oidaematophorini

824. *Hellinsia pectodactylus* (Staud.) (6205. *Hellinsia pectodactylus* (Staudinger)) – 20-VII-2001 2.
 830. *Hellinsia arion* (B. & L.) (6232. *Hellinsia arion* (B. & L.)) – 29-VII-2003 1.
 833. *Oidaematophorus mathewianus* (Zell.) (6166. *Oidaematophorus mathewianus* (Zell.)) (Mathew's Plume Moth) – 11-VII-2003 1, 16-VII-2005 2 and 26-VII-2005 11.

PYRALIDAE – Pyralid Moths

Pyralidae, Pyralinae, Pyralini

854. *Dolichomia olinalis* (Gn.) (5533. *Herculia olinalis* (Gn.)) (Yellow-fringed Dolichomia Moth) – 7-VII-2002 1.

Pyralidae, Epipaschiinae

858. *Pococera asperatella* (Clem.) (5606. *Tetralopha asperatella* (Clem.)) (Maple Webworm Moth) – 25-VI-2002 1 and 7-VII-2002 2.

Pyralidae, Phycitinae, Phycitini

861. *Acrobasis tricolorella* Grt. (5655. *Acrobasis tricolorella* Grt.) (Tricolored Acrobasis Moth, Destructive Prune Worm) – 11-VII-2003 1, 16-VII-2003 1, 16-VII-2005 1 and 26-VII-2005 1.

864. *Myelopsis subtetricella* (Hulst) (5718. *Myelopsis subtetricella* Rag.) – 20-VII-2001 2, 14-VI-2002 1 and 6-VIII-2002 1.

865. *Apomyelois bistratella* (Hulst) (5721. *Apomyelois bistratella* (Hulst)) – 26-VII-2005 4 and 4-VIII-2005 3.

866. *Eulogia ochrifrontella* (Zell.) (5999. *Eulogia ochrifrontella* (Zell.)) (Broad-banded Eulogia Moth) – 26-VII-2005 1.

870. *Vitula seratilineella* Rag. (6007. *Vitula seratilineella* Rag.) – 1-VII-2003 1.

880. *Pima boisduvaliella* (Gn.) (5746. *Pima boisduvaliella* (Gn.)) – 25-VI-2002 1 and 22-VII-2003 2.

881. *Pima fulvirugella* (Rag.) (5751. *Pima fulvirugella* (Rag.)) – 14-VI-2002 1, 1-VII-2003 1 and 11-VII-2003 1.

887. *Catastia actualis* (Hulst) (5764. *Catastia actualis* (Hulst)) – 7-VII-2002 1.

890. *Meroptera pravella* (Grt.) (5787. *Meroptera pravella* (Grt.)) (Lesser Aspen Webworm Moth) – 7-VII-2002 1, 22-VII-2002 1, 1-VII-2003 4, 16-VII-2005 1 and 26-VII-2005 1.

891. *Sciota basilaris* Zell. (5799. *Nephoterix basilaris* Zell.) – 14-VI-2002 2, 25-VI-2002 2, 7-VII-2002 2 and 1-VII-2003 5.

896. *Teletuscia ovalis* (Pack.) (5812. *Teletuscia ovalis* (Pack.)) – 26-VII-2005 1.

901. *Pyla aenigmatica* Heinr. (5827. *Pyla aenigmatica* Heinr.) – 7-VII-2002 1 and 10-VII-2003 2.

918. *Hulstia undulatella* (Clem.) (5918. *Hulstia undulatella* (Clem.)) (Sugarbeet Crown Borer Moth) – 22-VII-2002 4 and 15-IX-2002 1.

920. *Zophodia grossulariella* (Hbn.) (5968. *Zophodia convolutella* (Hbn.)) (Gooseberry Fruitworm Moth) – 11-V-2003 1.

921. *Melitara dentata* (Grt.) (5971. *Melitara dentata* (Grt.)) – 22-VIII-2002 1 and 26-VII-2005 1.
The larvae of this species feed on *Opuntia fragilis*.

928. *Phycitoides mucidella* (Rag.) (5946. *Phycitoides mucidellum* (Rag.)) – 25-VI-2002 1.

Pyralidae, Phycitinae, Peoriini

933. *Peoria approximella* (Wlk.) (6053. *Peoria approximella* (Wlk.)) (Carmine Snout Moth) – 30A-VII-2005 3.

CRAMBIDAE – Snout Moths

Species indet. – 2-VI-2001 1.

Crambidae, Scopariinae

935. *Scoparia biplagiialis* (Wlk.) (4716. *Scoparia biplagiialis* (Wlk.)) (Double-striped Scoparia Moth) – 31-VII-2001 1, 22-VII-2002 1, 6-VIII-2002 2, 22-VIII-2002 6, 3-IX-2002 1, 15-IX-2002 1, 29-VII-2003 1, 26-VII-2005 2 and 4-VIII-2005 1.

Crambidae, Crambinae, Haimbachiini

941. *Occidentalia comptulatilis* (Hulst) (5474. *Acigona comptulatilis* (Hulst)) (Acigona Moth) – 20-VII-2001 1.

Crambidae, Crambinae, Crambini

948. *Chrysoteuchia topiarius* (Zell.) (5391. *Chrysoteuchia topiaria* (Zell.)) (Cranberry Girdler or Topiary Grass-veneer Moth) – 25-VI-2002 4, 7-VII-2002 4, 23-VII-2002 2, 1-VII-2003 2, 11-VII-2003 3, 16-VII-2003 1 and 16-VII-2005 1.
949. *Crambus pascuella* (L.) (5339. *Crambus pascuellus* (L.)) (Grass-veneer Moth) – 29-VII-2003 1.
953. *Crambus perlella* (Scop.) (5343a. *Crambus perlellus innotatellus* Wlk.) (Immaculate Grass-veneer Moth) – 20-VII-2001 1, 31-VII-2001 1, 7-VII-2002 2, 22-VII-2002 1, 6-VIII-2002 1, 22-VIII-2002 2, 11-VII-2003 1, 16-VII-2005 1, 26-VII-2005 1 and 4-VIII-2005 1.
955. *Crambus whitmerellus browni* Klots (5345a. *Crambus whitmerellus browni* Klots) – 1-VII-2003 1 and 11-VII-2003 1.
959. *Crambus ainsliellus* Klots (5354. *Crambus ainsliellus* Klots) – 3-IX-2005 2.
959. *Crambus ainsliellus* Klots or 961. *Crambus leachellus* (Zinck.) (5354. *Crambus ainsliellus* Klots or 5357. *Crambus leachellus* (Zinck.) or. – 29-VIII-2001 1, 13-IX-2001 1, 22-VIII-2002 2, 3-IX-2002 7 and 15-IX-2002 4. Probably *ainsliellus*. These two species are distinguishable with confidence only by an examination of the male genitalia.
963. *Crambus girardellus* Clem. (5365. *Crambus girardellus* Clem.) (Girard's Grass-veneer Moth) – 1-VII-2003 1.
967. *Agriphila ruricolellus* (Zell.) (5399. *Agriphila ruricolella* (Zell.)) (Lesser Vagabond Sod Webworm) – 20-VII-2001, 23-VII-2001 1, 31-VII-2001 1, 22-VIII-2002 2, 15-IX-2002 2, 16-VII-2003 1, 29-VII-2003 1, 26-VII-2005 1 and 4-VIII-2005 2.
970. *Neodactria luteolellus* Clem. (5379. *Neodactria luteolella* Clem.) (Mottled Grass-veneer Moth) – 25-VI-2002 3, 7-VII-2002 1 and 13-VI-2005 1.
- Pediasia* sp. – 7-VII-2002 8 and 6-VIII-2002 1. These could be *Pediasia aridella edmontella* or *Pediasia ericellus*.
976. *Pediasia trisecta* (Wlk.) (5413. *Pediasia trisecta* (Wlk.)) (Sod Webworm Moth) – 31-VII-2001 1, 22-VIII-2002 4 and 3-IX-2002 4.
978. *Pediasia ericellus* (B. & McD.) (5415. *Pediasia ericella* (B. & McD.)) – 11-VII-2003 1 and 16-VII-2003 1.
980. *Pediasia dorsipunctellus* (Kft.) (5417. *Pediasia dorsipunctella* (Kft.)) – 20-VII-2001 2, 31-VII-2001 2, 29-VIII-2001 1, 25-VI-2002 1, 22-VII-2002 3, 6-VIII-2002 3, 22-VIII-2002 7, 3-IX-2002 2, 15-IX-2002 5, 11-VII-2003 3, 16-VII-2003 1, 29-VII-2003 1, 16-VII-2005 1 and 26-VII-2005 2.

Crambidae, Schoenobiinae

985. *Donacaula melinellus* (Clem.) (5316. *Donacaula melinella* (Clem.)) (Delightful Donacaula Moth) – 16-VII-2003 1. This specimen has been sent for study to Edda Martinez at the Mississippi Entomological Museum as she is monographing the North American species of the genus.

Crambidae, Acentropinae, Acentropini

987. *Acentria ephemerella* (Denis & Schiff.) (5299. *Acentria nivea* (Olivier)) (Water Veneer Moth) – 7-VII-2002 1.

Crambidae, Acentropinae, Nymphulini

989. *Synclita oblitalis* (Wlk.) (4755. *Synclita oblitalis* (Wlk.)) (Waterlily Leaf-cutter Moth) – 31-VII-2001 1.

Crambidae, Acentropinae, Argyractini

991. *Petrophila kearfottalis* (B. & McD.) (4773. *Petrophila kearfottalis* (B. & McD.)) – 16-VII-2003 1.

Crambidae, Acentropinae, Argyractini

995. *Evergestis pallidata* (Hufn.) (4897. *Evergestis pallidata* (Hufn.)) (Purple-backed Cabbageworm Moth) – 20-VII-2001 1 and 1-VII-2003 1.

Crambidae, Pyraustinae, Pyraustini

1011. *Fumibotys fumalis* (Gn.) (4950. *Fumibotys fumalis* (Gn.)) (Mint Root Borer Moth) – 7-VII-2002 1.

1012. *Perispasta caeculalis* Zell. (4951. *Perispasta caeculialis* Zell.) (Titian Peale's Pyralid Moth) – 25-VI-2002 2, 7-VII-2002 2 and 1-VII-2003 1.

1018. *Sitochroa chortalis* (Grt.) (4987. *Sitochroa chortalis* (Grt.)) (Sitochroa Moth) – 14-VI-2002 2, 25-VI-2002 2 and 1-VII-2003 1.

1021. *Loxostege sticticalis* (L.) (5004. *Loxostege sticticalis* (L.)) (Beet Webworm) – 14-VI-2002 1, 25-VI-2002 1, 7-VII-2002 1, 15-IX-2002 2, 16-VI-2003 1, 27-V-2004 2, 1-VI-2005 2 and 26-VII-2005 1.

1025. *Loxostege cerealalis* (Zell.) (5017. *Loxostege cerealalis* (Zell.)) (Alfalfa Webworm Moth) – 22-VII-2002 1.

1026. *Pyrausta nicalis* (Grt.) (5032. *Pyrausta nicalis* (Grt.)) – 7-VII-2002 1 and 16-VI-2003 1.

1027. *Pyrausta signatalis* (Wlk.) (5034. *Pyrausta signatalis* (Wlk.)) (Raspberry Pyrausta Moth) – 25-VI-2002 1.

1035. *Pyrausta fodinalis* (Led.) (5074. *Pyrausta fodinalis* (Led.)) – 20-VII-2001 2, 22-VII-2002 1, 6-VIII-2002 1, 15-IX-2002 1, 1-VII-2003 1, 29-VII-2003 1, 16-VII-2005 1 and 26-VII-2005 1.

1036. *Pyrausta socialis* (Grt.) (5075. *Pyrausta socialis* (Grt.)) – 31-VII-2001 1 and 22-VII-2002 1.

Crambidae, Pyraustinae, Spilomelini

1039. *Choristostigma plumbosignalis* (Fern.) (5128. *Choristostigma plumbosignalis* (Fern.)) – 16-VII-2005 1 and 26-VII-2005 2.

1041. *Udea rubigalis* (Gn.) (5079. *Udea rubigalis* (Gn.)) (Celery Leaf-tier Moth) – 16-VII-2003 1.

1045. *Udea itysalis* (Wlk.) (5099. *Udea itysalis* (Wlk.)) – 7-VII-2002 1 and 26-VII-2005 1.

1052. *Mecyna submedialis* (Grt.) (5135. *Mecyna submedialis* (Grt.)) (Orange-toned Mecyna Moth) – 20-VII-2001 2, 7-VII-2002 2, 22-VII-2002 1, 1-VII-2003 1, 11-VII-2003 3, 16-VII-2003 1, 29-VII-2003 1, 16-VII-2005 1 and 26-VII-2005 1.

1053. *Mecyna mustelinalis* (Pack.) (5137. *Mecyna mustelinalis* (Pack.)) – 7-VII-2002 1.

DREPANIDAE – Lutestrings and Hooktips

Drepanidae, Thyatirinae, Habrosyninae

1232. *Pseudothyatira cymatophoroides* (Gn.) (6237. *Pseudothyatira cymatophoroides* (Gn.)) (Short-cloaked Lutestring) – 7-VII-2002 1.

Drepanidae, Thyatirinae, Macrothyatirini

1234. *Ceranemota albertae* Clarke (6248. *Ceranemota albertae* Clarke) (Alberta Lutestring) – 29-VIII-2001 2, 13-IX-2001 1, 3-IX-2002 2, 15-IX-2002 1 and 7-IX-2005 1.

Drepanidae, Drepaninae, Oretini

1239. *Oreta rosea* (Wlk.) (6255. *Oreta rosea* (Wlk.)) (Rose Hooktip) – 7-VII-2002 1.

GEOMETRIDAE – Inchworm or Geometrid Moths**Geometridae, Larentiinae, Cidariini**

1241. *Dysstroma citrata* (L.) (7182. *Dysstroma citrata* (L.)) (Large Marbled Carpet) – 28-IX-2004 1, 4-VIII-2005 1 and 7-IX-2005 3.
1247. *Dysstroma hersiliata* (Gn.) (7189. *Dysstroma hersiliata* (Gn.)) (Orange-barred Carpet) – 1-VII-2003 1 and 11-VII-2003 1.
1252. *Eulithis propulsata* (Wlk.) (7199. *Eulithis propulsata* (Wlk.)) (Barred Yellow or Currant Eulithis) – 31-VII-2001 1.
1255. *Eulithis flavibrunneata* (McD.) (7205. *Eulithis flavibrunneata* (McD.)) – 31-VII-2001 1 and 4-VIII-2005 1.
1257. *Eulithis xyliana* (Hulst) (7207. *Eulithis xyliana* (Hulst)) (The Phoenix) – 20-VII-2001 2 and 31-VII-2001 1.

Geometridae, Larentiinae, Hydriomenini

1271. *Hydriomena ruberata* (Frey.) (7254. *Hydriomena ruberata* (Frey.)) – 27-V-2002 1, 14-VI-2002 1 and 27-V-2004 1.
1273. *Hydriomena furcata* (Thunb.) (7257. *Hydriomena furcata* (Thunb.)) (Common Highflyer) – 6-VIII-2002 1 and 29-VII-2003 1.
1275. *Triphosa haesitata* (Gn.) (7285. *Triphosa haesitata* (Gn.)) (Brown Tissue Moth) – 28-IX-2001 1.
1277. *Hydria undulata* (L.) (7291. *Hydria undulata* (L.)) (Scallop Shell) – 7-VII-2002 1.
1290. *Anticlea vasiliata* Gn. (7329. *Anticlea vasiliata* Gn.) (Variable Carpet) – 26-IV-2001 3.

Geometridae, Larentiinae, Xanthorhoini

1308. *Epirrhoe alternata* (Müller) (7394. *Epirrhoe alternata* (Müller)) (White-banded Toothed Carpet) – 7-VII-2002 2 and 22-VII-2001 1.
1311. *Euphyia intermediata* (Gn.) (7399a. *Euphyia alternata intermediata* (Gn.)) (Sharp-angled Carpet) – 16-VI-2003 1 and 13-VI-2005 1.
1312. *Xenophleps alpinata* Cass. (7408. *Xenophleps alpinata* Cass.) (Wood-colored Carpet) – 22-VIII-2002 1, 26-VII-2005 1 and 4-VIII-2005 1.

Geometridae, Larentiinae, Eudelini

1325. *Eubaphe mendica* (Wlk.) (7440. *Eubaphe mendica* (Wlk.)) (The Beggar) – 7-VII-2002 1.

Geometridae, Larentiinae, Eupitheciini

1326. *Horisme intestinata* (Gn.) (7445. *Horisme intestinata* (Gn.)) (Brown Bark Carpet) – 25-VI-2002 1, 1-VII-2003 1, 1-VI-2005 1 and 13-VI-2005 1.

1336. *Eupithecia subfuscata* (Haw.) (7487. *Eupithecia subfuscata* (Haw.)) (Grey Pug) – 14-VI-2002 1.

1345. *Eupithecia anticaria* Wlk. (7594. *Eupithecia anticaria* Wlk.) – 14-VI-2002 2 and 25-I-2002 1.

1346. *Eupithecia ravocostaliata* Pack. (7605. *Eupithecia ravocostaliata* Pack.) (Great Variegated Pug) – 27-V-2002 1.

1362. *Eupithecia ammonata* McD. (7527. *Eupithecia ammonata* McD.) – 14-VI-2002 1.

1370. *Eupithecia regina* Tayl. (7483. *Eupithecia regina* Tayl.) – 13-VI-2005 1.

Geometridae, Larentiinae, Lobophorini

1376. *Lobophora nivigerata* Wlk. (7640. *Lobophora nivigerata* Wlk.) (Two-lined Aspen Looper) – 14-VI-2002 1, 7-VII-2002 1 and 1-VII-2003 1.

Geometridae, Sterrhinae, Scopulini

1383. *Scopula limboundata* (Haw.) (7159. *Scopula limboundata* (Haw.)) (Large Lace Border) – 7-VII-2002 2.

1386. *Scopula junctaria* (Wlk.) (7164. *Scopula junctaria* (Wlk.)) (Simple Wave) – 20-VII-2001 1, 31-VII-2002 1, 7-VII-2002 1, 1-VII-2003 1 and 4-VIII-2005 1.

1388. *Scopula frigidaria* (Mösch.) (7166. *Scopula frigidaria* Mösch.) (Frigid Wave) – 26-VII-2005 1.

1390. *Scopula inductata* Gn. (7169. *Scopula inductata* Gn.) (Soft-lined Wave) – 7-VII-2002 3, 22-VII-2002 1, 1-VII-2003 1 and 11-VII-2003 1.

Geometridae, Geometrinae, Nemoriini

1394. *Nemoria unitaria* (Pack.) (7018. *Nemoria unitaria* (Pack.)) (Single-lined Emerald) – 20-VII-2001 1.

Geometridae, Geometrinae, Synchlorigini

1399. *Synchlora aerata* (F.) (7058. *Synchlora aerata* (F.)) (Wavy-lined Emerald) – 20-VII-2002 1, 7-VII-2002 1, 11-VII-2003 1, 16-VII-2005 2 and 26-VII-2005 2.

Geometridae, Ennomiinae, Cassymini

1406. *Protitame virginalis* (Hulst) (6270. *Protitame virginalis* (Hulst)) (Virgin Moth) – 7-VII-2002 1, 16-VI-2003 1, 1-VII-2003 2 and 1-VI-2005 1.

Geometridae, Ennomiinae, Macariini

1410. *Speranza amboflava* (Ferg.) (6283. *Itame sulphurea* (Pack.)) (Spotted Sulphur Moth) – 16-VII-2003 1.
1412. *Speranza exauspicata* (Wlk.) (6292. *Itame exauspicata* (Wlk.)) (Speckled Granite Moth) – 26-VII-2005 1.
1414. *Speranza bitactata* (Wlk.) (6304. *Itame bitactata* (Wlk.)) – 20-VII-2001 4, 7-VII-2002 1, 22-VII-2002 1, 6-VIII-2002 1, 29-VII-2003 2 and 26-VII-2005 3.
1416. *Speranza occiduaria* (Pack.) (6279. *Itame occiduaria* (Pack.)) (Western Sulphur) – 20-VII-2001 1, 7-VII-2002 2, 1-VII-2003 1, 11-VII-2003 1, 29-VII-2003 1, 13-VI-2005 1, 16-VII-2005 2, 26-VII-2005 1 and 4-VIII-2005 1.
1421. *Speranza loricaria* (Evers.) (6290. *Itame loricaria* (Evers.)) (False Bruce Spanworm) – 25-VI-2002 1, 7-VII-2002 1, 1-VII-2003 1 and 11-VII-2003 1.
1425. *Macaria aemulataria* (Wlk.) 6326. *Semiothisa aemulataria* (Wlk.) (Common Angle) – 7-VII-2002 1.
1433. *Digrammia denticulata* (Grt.) (6373. *Semiothisa denticulata* Grt.) (Striped Granite) – 13-VI-2005 1.
1438. *Digrammia mellistrigata* (Grt.) (6397. *Semiothisa mellistrigata* (Grt.)) – 14-VI-2002 1, 7-VII-2002 1 and 26-VII-2005 1.

Geometridae, Ennomiinae, Boarmiini

1445. *Hesperumia sulphuraria* (Pack.) (6431. *Hesperumia sulphuraria* Pack.) (Sulphur Moth) – 29-VII-2003 1, 16-VII-2005 1 and 26-VII-2005 1.

Geometridae, Ennomiinae, Bistonini

1460. *Biston betularia* (L.) (6640. *Biston betularia* (L.)) (Salt-and-Pepper Moth) – 14-VI-2002 1, 25-VI-2002 1, 7-VII-2002 1, 1-VII-2003 1 and 13-VI-2005 1.
1461. *Lycia ursaria* (Wlk.) (6651. *Lycia ursaria* (Wlk.)) (The Bear or Stout Spanworm Moth) – 26-IV-2001 2 and 11-V-2003 1.
1467. *Erannis tiliaria* (Harr.) (6665. *Erannis tiliaria* (Harr.)) (Linden Looper Moth) – 28-IX-2004 3.

Geometridae, Ennomiinae, Caberini

1472. *Cabera erythemaria* Gn. (6677. *Cabera erythemaria* Gn.) (Yellow-dusted Cream Moth) – 20-VII-2001 1, 16-VII-2003 1 and 13-VI-2005 2.
1473. *Cabera variolaria* Gn. (6678. *Cabera variolaria* Gn.) (Pink-striped Willow Spanworm) – 20-VII-2001 3, 31-VII-2001 2, 25-VII-2002 1, 7-VII-2002 3, 6-VIII-2002 1, 22-VIII-2002 1, 11-VII-2003 1, 29-VII-2003 1 and 26-VII-2005 2.

Geometridae, Ennomiinae, Angeronini

1480. *Aspitates aberratus* (Hy. Edw.) (6715. *Aspitates aberratus* (Hy. Edw.)) – 14-VI-2002 1.
1482. *Euchlaena obtusaria* (Hbn.) (6726. *Euchlaena obtusaria* (Hbn.)) (Obtuse Euchlaena) – 7-VII-2002 1.
1483. *Euchlaena johnsonaria* (Fitch) (6729. *Euchlaena johnsonaria* (Fitch)) (Johnson's Euchlaena) – 7-VII-2002 1, 1-VII-2003 1 and 16-VII-2005 1.
1484. *Euchlaena madusaria* (Wlk.) (6731. *Euchlaena madusaria* (Wlk.)) – 26-VII-2005 1.
1485. *Euchlaena marginaria* (Minot) (6734. *Euchlaena marginaria* (Minot)) (Ochre Euchlaena) – 14-VI-2002 1, 16-VI-2003 1, 27-V-2004 1 and 13-VI-2005 1.

1486. *Euchlaena tigrinaria* (Gn.) (6737. *Euchlaena tigrinaria* (Gn.)) (Mottled Euchlaena or Variable Thorn) – 7-VII-2002 1, 1-VII-2003 1 and 16-VII-2005 1.

1487. *Xanthotype urticaria* Swett (6740. *Xanthotype urticaria* Swett) – 7-VII-2002 1.

Geometridae, Ennomiinae, Azelini

1490. *Pero morrisonaria* (Hy. Edw.) (6755. *Pero morrisonaria* (Hy. Edw.)) (Lesser Umber or Morrison's Pero) – 14-VI-2002 1, 25-VI-2002 4, 7-VII-2002 1 and 13-VI-2005 1.

Geometridae, Ennomiinae, Campaeini

1494. *Campaea perlata* (Gn.) (6796. *Campaea perlata* (Gn.)) (Pale Beauty) – 20-VII-2001 2, 7-VII-2002 1 and 22-VII-2002 1.

Geometridae, Ennomiinae, Ennomini

1495. *Ennomos magnaria* Gn. (6797. *Ennomos magnaria* Gn.) (Maple Spanworm) – 29-VIII-2001 1, 13-IX-2001 1, 6-VIII-2002 1, 15-IX-2002 1, 28-IX-2004 1.

Geometridae, Ennomiinae, Anagogini

1501. *Selenia alciphearia* (Wlk.) (6817. *Selenia alciphearia* (Wlk.)) (Northern Selenia) – 27-V-2002 1.

1503. *Metanema inatomaria* (Gn.) (6819. *Metanema inatomaria* Gn.) (Pale Metanema) – 14-VI-2002 1 and 7-VII-2002 1.

1504. *Metanema determinata* Wlk. (6820. *Metanema determinata* Wlk.) (Dark Metanema) – 25-VI-2002 1, 7-VII-2002 1 and 1-VI-2005 1.

1506. *Metarranthis duaria* (Gn.) (6822. *Metarranthis duaria* (Gn.)) (Ruddy Metarranthis) – 14-VI-2002 1 and 27-V-2004 4.

1507. *Probole alienaria* (H.-S.) (6837. *Probole alienaria* (H.-S.)) – 25-VI-2002 1 and 16-VI-2003 1.

1508. *Probole amicaria* (H.-S.) (6838. *Probole amicaria* (H.-S.)) (Friendly Probole) – 14-VI-2002 2.

1509. *Plagodis pulveraria* (L.) (6836. *Anagoga occiduaria* (Wlk.)) (American Barred Umber) – 14-VI-2002 1.

Geometridae, Ennomiinae, Ourapterygini

1522. *Sicya macularia* (Harr.) (6912. *Sicya macularia* (Harr.)) (Pink-bordered Yellow) – 20-VII-2001 2 and 26-VII-2005 1.

1524. *Tetraxis jubararia* (Hulst) (6954. *Synaxis jubararia* (Hulst)) (October Thorn) – 15-IX-2002 1.

1531. *Prochoerhodes lineola* (Göze) (6982. *Prochoerhodes transversata* (Drury)) (Large Maple Spanworm) – 23-VIII-2003 1.

LASIOCAMPIDAE –Tent Caterpillar or Lappet Moths

Lasiocampidae, Lasiocampinae, Gastropachini

1536. *Phyllodesma americana* (Harr.) (7687. *Phyllodesma americana* (Harr.)) (Lappet Moth) – 27-V-2002 1, 27-V-2003 1, 27-V-2004 1 and 11-V-2005 1.

Lasiocampidae, Lasiocampinae, Lasiocampini

1537. *Malacosoma disstria* Hbn. (7698. *Malacosoma disstria* Hbn.) (Forest Tent Caterpillar Moth) – 20-VII-2001 1, 7-VII-2002 4, 10-VII-2003 2 and 16-VII-2003 1.
 1538. *Malacosoma californica* (Pack.) (7702. *Malacosoma californicum* (Pack.)) (Western Tent Caterpillar) – 22-VII-2002 1.

SATURNIDAE – Giant Silkworm Moths

Saturniidae, Saturniinae, Saturniini

1542. *Antheraea polyphemus* (Cram.) (7757. *Antheraea polyphemus* (Cram.)) (Polyphemus Moth) – 14-VI-2002 1, 25-VI-2002 1.

Saturniidae, Saturniinae, Attacini

1544. *Hyalophora gloveri* (Stkr.) (7769. *Hyalophora gloveri* (Stkr.)) (Glover's Silk-moth) – 27-VI-2003 1 and 27-V-2004 1.

SPHINGIDAE – Sphinx Moths

Sphingidae, Sphinginae, Sphingini

1548. *Sphinx vashti* Stkr. (7803. *Sphinx vashti* Stkr.) (Vashti or Snowberry Sphinx) – 27-V-2002 1, 14-VI-2002 11 SR, 25-VI-2002 4 SR, 7-VII-2002 3 SR, 9-VI-2003 1, 16-VII-2003 2 SR, 27-V-2004 1 and 24-VI-2004 2.

Sphingidae, Sphinginae, Sphingini

1553. *Smerinthus jamaicensis* (Drury) 7821. *Smerinthus jamaicensis* (Drury) (Twin Spotted Sphinx) – 20-VII-2001 1, 31-VII-2001 1, 14-VI-2002 15 SR, 25-VI-2002 13 SR, 7-VII-2002 6 SR, 12-VII-2002 2 SR, 27-V-2004 1 and 24-VI-2004 1 SR.
 1554. *Smerinthus cerisyi* Kby. (7822. *Smerinthus cerisyi* Kby.) (One-eyed Sphinx) – 14-VI-2002 20 SR, 25-VI-2002 7 SR and 7-VII-2002 10 SR.
 1556. *Paonias excaecatus* (J.E. Sm.) (7824. *Paonias excaecatus* (J.E. Smith)) (Blinded Sphinx) – 25-VI-2002 1, 7-VII-2002 1 SR and 13-VI-2005 1.
 1557. *Paonias myops* (J.E. Sm.) (7825. *Paonias myops* (J. E. Smith)) (Small-eyed Sphinx) – 25-VI-2002 1, 7-VII-2002 1 SR and 22-VII-2002 2 SR.
 1558. *Pachysphinx modesta* (Harr.) (7828. *Pachysphinx modesta* (Harr.)) (Big Poplar Sphinx) – 14-VI-2002 1, 25-VI-2002 4 SR, 16-VII-2003 1 SR and 24-VI-2004 1 SR.

Sphingidae, Macroglossinae, Macroglossini

1570. *Hyles gallii* (Rott.) (7893. *Hyles gallii* (Rottemburg)) (Galium Sphinx or Bedstraw Hawkmoth) – 25-VI-2002 1 and 7-VII-2002 1 SR.

NOTODONTIDAE – Prominent Moths

Notodontidae, Pygaerinae

1572. *Clostera albosigma* Fitch (7895. *Clostera albosigma* Fitch) (Sigmoid Prominent) – 26-IV-2001 4, 20-VII-2001 1, 27-V-2002 2, 7-VII-2002 1 SR, 22-VII-2002 1 and 6-VIII-2002 1.
1573. *Clostera strigosa* (Grt.) (7898. *Clostera strigosa* (Grt.)) (Striped Chocolate-tip) – 14-VI-2002 1.
1574. *Clostera brucei* (Hy. Edw.) (7900. *Clostera brucei* (Hy. Edw.)) (Bruce's Chocolate-tip) – 31-VII-2001 1.
1575. *Clostera apicalis* (Wlk.) (7901. *Clostera apicalis* (Wlk.)) (Common Chocolate-tip or Red-marked Tentmaker) – 14-VI-2002 1 and 1-VI-2005 1.

Notodontidae, Notodontinae, Notodontini

1576. *Pheosia rimosa* Pack. (7922. *Pheosia rimosa* Pack.) (Black-rimmed Prominent) – 20-VI-2001 2, 27-V-2004 1, 11-V-2005 1, 1-VI-2005 1 and 16-VII-2005 1.
1577. *Odontosia elegans* (Stkr.) (7924. *Odontosia elegans* (Stkr.)) (Elegant Prominent) – 14-VI-2002 1.
1578. *Notodonta scitipennis* Wlk. (7926. *Notodonta scitipennis* Wlk.) (Base-streaked Prominent) – 14-VI-2002 1.
1579. *Notodonta torva* (Hbn.) (7928. *Notodonta simplaria* Graef (Simple Prominent) – 14-V-2002 2 and 1-VI-2005 1.

Notodontidae, Notodontinae, Dicranurini

1580. *Gluphisia septentrionis* Wlk. (7931. *Gluphisia septentrionis* Wlk.) (Small Pebble or Common Gluphisia) – 14-VI-2002 1, 25-VI-2002 1 SR, 7-VII-2004 2 SR, 1-VII-2003 1, 11-VII-2003 2, 24-VI-2004 1 and 13-VI-2005 1.
1582. *Gluphisia lintneri* (Grt.) (7934. *Gluphisia lintneri* (Grt.)) (Lintner's Pebble) – 26-IV-2001 3 and 20-IV-2003 1.
1585. *Furcula occidentalis* (Lint.) (7939. *Furcula occidentalis* (Lint.)) (Willow Kitten) – 1-VII-2003 1.
1586. *Furcula scolopendrina* (Bdv.) (7940. *Furcula scolopendrina* (Bdv.)) (Poplar Kitten) – 14-VI-2002 1 and 25-VI-2002 2.
1587. *Furcula modesta* (Huds.) (7941. *Furcula modesta* (Huds.)) (Modest Kitten) – 14-VI-2002 1 and 11-V-2005 1.

Notodontidae, Phalerinae

1589. *Nadata gibbosa* (J.E. Sm.) (7915. *Nadata gibbosa* (J.E. Smith)) (White-dotted Prominent) – 14-VI-2002 1 and 1-VII-2003 1.

Notodontidae, Notodontinae, Dicranurini

1591. *Schizura unicornis* (J.E. Sm.) (8007. *Schizura unicornis* (J. E. Smith)) (Variegated Prominent or Unicorn Caterpillar Moth) – 25-VI-2002 1 and 13-VI-2005 1.

EREBIDAE –Quadrifine Noctuids

Erebidae, Lymantriinae, Orgyiini

1600. *Dasychira vagans* (B. & McD.) (8294. *Dasychira vagans* (B. & McD.)) (Variable Tussock Moth) – 1-VII-2003 1 and 11-VII-2003 1.

Erebidae, Arctiinae, Lithosiini

1606. *Hypoprepia miniata* (Kby.) (8089. *Hypoprepia miniata* (Kby.)) (Scarlet-winged Lichen Moth) – 16-VII-2003 1.

1608. *Clemensia albata* Pack. (8098. *Clemensia albata* Pack.) (Little White Lichen Moth) – 1-VII-2003 1.

1609. *Eilema bicolor* (Grt.) (8043. *Eilema bicolor* (Grt.)) (Bicolored Moth) – 22-VII-2002 1, 22-VIII-2002 1 and 4-VIII-2005 1.

1610. *Crambidia casta* (Pack.) (8051. *Crambidia casta* (Pack.)) (Pearly-winged Lichen Moth) – 22-VIII-2002 1.

Erebidae, Arctiinae, Arctiini

1613. *Virbia ferruginosa* (Wlk.) (8123. *Holomelina ferruginosa* (Wlk.)) (Rusty Holomelina) – 20-VII-2001 1, 7-VII-2002 1, 22-VII-2002 1, 1-VII-2003 1, 11-VII-2003 1, 16-VII-2003 1, 16-VII-2005 1 and 26-VII-2005 1.

1619. *Grammia virgo* (L.) (8197. *Grammia virgo* (L.)) (Virgin Tiger Moth) – 7-VII-2002 1, 12-VII-2002 1, 16-VIII-2002 1, 1-VII-2003 1, 11-VII-2003 1, 16-VII-2003 1 and 16-VII-2005 1.

1620. *Grammia parthenice* (W. Kby.) (8196. *Grammia parthenice* (W. Kby.)) (Parthenice Tiger Moth) – 20-VII-2001 2, 31-VII-2001 1, 22-VII-2002 1, 22-VIII-2002 2, 29-VII-2003 1, 16-VII-2005 1, 26-VII-2005 1 and 4-VIII-2005 1.

1621. *Grammia virguncula* (W. Kby.) (8175. *Grammia virguncula* (W. Kby.)) ((Little Virgin Moth) – 7-VII-2002 1 and 22-VII-2002 1.

1625. *Grammia williamsii* (Dodge) (8186. *Grammia williamsii* (Dodge)) (William's Tiger Moth) – 25-VI-2002 1, 7-VII-2002 2, 11-VII-2003 1 and 24-VI-2004 1.

1631. *Platarctia parthenos* (Harr.) (8162. *Platarctia parthenos* (Harr.)) (St. Lawrence Tiger Moth) – 14-VI-2002 1, 25-VI-2002 50 SR and 7-VII-2002 2 SR.

1632. *Arctia caja* (L.) (8166. *Arctia caja* (L.)) (Great Tiger Moth) – 16-VII-2005 1, 26-VII-2005 1 and 4-VIII-2005 1.

1635. *Phragmatobia assimilans* Wlk. (8158. *Phragmatobia assimilans* Wlk.) (Large Ruby Tiger Moth) – 27-V-2002 1, 14-VI-2002 1, 27-V-2003 1 and 27-V-2004 4.

1636. *Pyrrharctia isabella* (J.E. Sm.) (8129. *Pyrrharctia isabella* (J.E. Smith)) (Isabella Tiger Moth) – 25-VI-2002 2 and 7-VII-2002 1.

1637. *Estigmene acraea* (Drury) (8131. *Estigmene acraea* (Drury)) (Salt Marsh Moth) – 14-VI-2002 1.

1639. *Spilosoma congrua* (Wlk.) (8134. *Spilosoma congrua* (Wlk.)) – 14-VI-2002 3, 25-VI-2005 1 and 1-VII-2003 1.

1649. *Lophocampa maculata* (Harr.) (8214. *Lophocampa maculata* (Harr.)) (Spotted Tiger Moth) – 14-VI-2002 1, 25-VI-2002 1 SR, 7-VII-2002 2 SR, 1-VII-2003 1, 1-VI-2005 1 and 13-VI-2005 1.

1652. *Ctenucha virginica* (Esp.) (8362. *Ctenucha virginica* (Esp.)) (Virginia Ctenucha) – 25-VI-2002 1 and 7-VII-2002 1.

Erebidae, Herminiinae

1654. *Idia americalis* (Gn.) (8322. *Idia americalis* (Gn.)) (American Snout Moth) – 20-VII-2001 2, 31-VII-2001 1, 25-VI-2002 1, 7-VII-2002 1, 22-VII-2002 2, 6-VIII-2002 1, 1-VII-2003 1, 16-VII-2003 1, 29-VII-2003 1 and 16-VII-2005 1.
1662. *Zanclognatha lotalba* (Sm.) (8354. *Zanclognatha lotalba* (Sm.)) (The Canadian Zanclognatha) – 7-VII-2002 1, 16-VII-2005 1 and 26-VII-2005 1.
1664. *Hormisa bivittata* (Grt.) (8359. *Hormisa bivittata* (Grt.)) – 7-VII-2002 1.
1666. *Phalaenostola metonalis* (Wlk.) (8362. *Phalaenostola metonalis* (Wlk.)) (Pale Phalaenostola or Tufted Snout) – 16-VII-2005 1.
1669. *Palthis angulalis* (Hbn.) (8397. *Palthis angulalis* (Hbn.)) (Angulated Snout Moth or Dark-spotted Palthis) – 25-VI-2002 1.

Erebidae, Rivulinae

1671. *Rivula propinqualis* Gn. (8404. *Rivula propinqualis* Gn.) (Yellow Snout Moth) – 20-VII-2001 1.

Erebidae, Boletobiinae

1683. *Mycterophora inexplicata* (Wlk.) (8413. *Mycterophora inexplicata* (Wlk.)) (Pale-edged Snout Moth) – 20-VII-2001 1.

Erebidae, Erebiniae, Euclidiini

1698. *Euclidea cuspea* (Hbn.) (8731. *Euclidea cuspea* (Hbn.)) (Pointed Grass Moth) – 25-VI-2002 1.
1700. *Caenurgina crassiuscula* (Haw.) (8738. *Caenurgina crassiuscula* (Haw.)) (Clover Looper Moth) – 14-VI-2002 5 SR, 25-VI-2002 1, 22-VII-2002 1, 15-IX-2002 2 and 29-VII-2003 1.
1701. *Caenurgina erechtea* (Cram.) (8739. *Caenurgina erechtea* (Cram.)) (Forage Looper Moth) – 26-VII-2005 1.

Erebidae, Erebiniae, Ophiuini

1703. *Zale minerea* (Gn.) (8697. *Zale minerea* (Gn.)) (Colorful Zale) – 1-VII-2003 1, 11-V-2005 1 and 1-VI-2005 1.

Erebidae, Erebiniae, Catocalini

1706. *Catocala unijuga* Wlk. (8805. *Catocala unijuga* Wlk.) (Once-married Underwing) – 22-VII-2002 2, 6-VIII-2002 1 and 22-VIII-2002 1.
1711. *Catocala briseis* Edw. (8817. *Catocala briseis* Edw.) (Ribbed Underwing or Briseis Underwing) – 6-VIII-2002 2 and 29-VIII-2003 1.

NOLIDAE – Nolid Moths

Nolidae, Nolinae

1721. *Nola cilicoides* (Grt.) (8990. *Nola cilicoides* (Grt.)) (Blurry-patched Nola) – 20-VII-2001 1 and 11-VII-2003 1.

NOCTUIDAE – Noctuid Moths

Noctuidae, Plusiinae, Plusiini

1727. *Diachrysia aeroides* (Grt.) (8896. *Diachrysia aeroides* (Grt.)) (Dark-spotted Looper Moth) – 16-VII-2005 1.
1729. *Pseudeva purpurigera* (Wlk.) (8899. *Pseudeva purpurigera* (Wlk.)) (Straight-lined Looper Moth) – 22-VII-2002 1.
1739. *Autographa pseudogamma* (Grt.) (8913. *Autographa pseudogamma* (Grt.)) (Delicate Silver Y Moth) – 7-VII-2002 1.
1740. *Autographa californica* (Spey.) (8914. *Autographa californica* (Speyer)) (Alfalfa Looper) – 27-V-2003 1 and 4-VIII-2005 1.
1744. *Autographa ampla* (Wlk.) (8923. *Autographa ampla* (Wlk.)) (Broken-banded Y or Large Looper Moth) – 13B-VIII-2005 1.
1745. *Anagrapha falcifera* (Kby.) (8924. *Anagrapha falcifera* (Kby.)) (Celery Looper) – 16-VI-2003 1 and 25-VIII-2003 1.
1763. *Plusia putnami* Grt. (8950. *Plusia putnami* Grt.) (Putnam's Looper Moth) – 20-VII-2001 1, 7-VII-2002 2 and 13-VI-2005 1.
1765. *Plusia venusta* Wlk. (8953. *Plusia venusta* Wlk.) (White-streaked Looper Moth) – 20-VII-2001 1 and 31-VII-2001 1.

Noctuidae, Eustrotiinae

1767. *Protodeltote albidula* (Gn.) (9048. *Lithacodia albidula* (Gn.)) (Common Midget) – 14-VI-2002 2, 7-VII-2002 1 and 1-VII-2003 1.

Noctuidae, Acontiinae, Acontiini

1768. *Ponometia semiflava* (Gn.) (9085. *Tarachidia semiflava* (Gn.)) – 25-VI-2002 1, 16-VII-2005 1 and 26-VII-2005 1.

Noctuidae, Dilobinae

1778. *Raphia frater* Grt. (9193. *Raphia frater* Grt.) (The Brother) – 14-VI-2002 1, 25-VI-2002 10 SR, 7-VII-2002 2 SR, 16-VI-2003 1 and 1-VII-2003 1.

Noctuidae, Acronictinae

1780. *Acronicta dactylina* Grt. (9203. *Acronicta dactylina* Grt.) (American Dagger Moth) – 14-VI-2002 1.
1790. *Acronicta superans* Gn. (9226. *Acronicta superans* Gn.) (The Chieftain Dagger Moth) – 14-VI-2002 1.
1791. *Acronicta hasta* Gn. (9220. *Acronicta hasta* Gn.) (The Forked Dagger Moth) – 14-VI-2002 1.
1796. *Acronicta impressa* Wlk. (9261. *Acronicta impressa* Wlk.) (Willow Dagger Moth) – 26-VII-2005 1.
1798. *Acronicta oblongata* (J.E. Sm.) (9272. *Acronicta oblongata* (J.E. Smith)) (Smearred Dagger Moth) – 14-VI-2002 1.
1801. *Simyra insularis* (H.-S.) (9280. *Simyra henrici* (Grt.)) (Henry's Marsh Moth) – 6-VIII-2002 1 and 3-IX-2002 1.

Noctuidae, Cuculliinae

1808. *Cucullia intermedia* Spey. (10194. *Cucullia intermedia* Speyer) (Intermediate Falconer or Goldenrod Cutworm Moth) – 20-VII-2001 1 and 7-VII-2002 1.

Noctuidae, Oncocnemidinae

1828. *Pleromelloida conserta* (Grt.) 10028. *Pleromelloida obliquata* (Sm.) (Oblique Rover) – 26-IV-2001 1.
1836. *Sympistis stabilis* Sm. (10062. *Homohadena stabilis* Sm.) (Brown Sallow) – 7-VII-2002 1.
1838. *Sympistis dinalda* (Sm.) (10065. *Homohadena infixa* (Wlk.)) (Broad-lined Sallow) – 20-VII-2001 1 and 22-VII-2002 1.
1844. *Sympistis mackiei* (B. & Benj.) (10143. *Oncocnemis mackiei* (B. & Benj.)) (Mackiei's Beauty) – 29-VIII-2002 1 and 15-IX-2002 3.
1845. *Sympistis cibalis* (Grt.) (10124. *Oncocnemis cibalis* Grt.) (Delicate Beauty) – 3-IX-2002 1, 15-IX-2002 2 and 29-VIII-2003 1.
1853. *Sympistis chionanthi* (J.E. Sm.) (10067. *Adita chionanthi* (J.E. Smith)) (Fringed Tree Sallow) – 20-VII-2001 1, 15-IX-2002 2 and 29-VII-2003 1.

Noctuidae, Heliolithinae

1884. *Schinia florida* (Gn.) (11164. *Schinia florida* (Gn.)) (Primrose Moth) – 22-VII-2002 1.

Noctuidae, Noctuinae, Pseuostrotiini

1897. *Pseudostrotia carneola* (Gn.) (9053. *Pseudostrotia carneola* (Gn.)) (Pink-barred Lithacodia) – 7-VII-2002 1 and 1-VII-2003 1.

Noctuidae, Noctuinae, Caradrini

1905. *Caradrina montana* (Bremer) (9656. *Platyperigea extima* Wlk.) (Civil Rustic) – 22-VII-2002 1, 22-VIII-2002 1, 15-IX-2002 1, 7-VII-2002 2 SR, 22-VII-2002 4 SR and 29-VIII-2003 1.
1906. *Proxenus miranda* (Grt.) (9647. *Proxenus miranda* (Grt.)) (Glistening Rustic) – 7-VII-2002 2, 1-VII-2003 1, 11-VII-2003 1 and 16-VII-2003 1.
1907. *Proxenus mendosa* McD. (9649. *Proxenus mendosa* McD.) – 25-VI-2002 1, 6-VIII-2002 1 and 22-VIII-2002 1.

Noctuidae, Noctuinae, Apameini

1918. *Apamea sordens* (Hufn.) (9364. *Apamea finitima* Gn.) (Bordered Apamea) – 7-VII-2002 3, 1-VI-2005 1 and 13-VI-2005 1.
1924. *Apamea commoda* (Wlk.) (9359. *Apamea commoda* (Wlk.)) (Southern Quaker) – 7-VII-2002 2, 22-VII-2002 2, 1-VII-2003 1, 11-VII-2003 1, 16-VII-2003 2, 13-VI-2005 1, 16-VII-2005 1 and 26-VII-2005 1.
1927. *Apamea amputatrix* (Fitch) (9348. *Apamea amputatrix* (Fitch)) (Northern Quaker or Dusky Sallow) – 7-VII-2002 1 and 6-VII-2005 1.
1930. *Apamea scoparia* Mik., Must. & Laf. (9365. *Agroperina lateritia* (Hufn.)) (Red-Winged Quaker) – 31-VII-2001 1 and 7-VII-2002 1.
1931. *Apamea cogitata* (Sm.) (9367a. *Apamea dubitans cogitata* (Sm.)) (Ruby Quaker) – 26-VII-2005 1.

1932. *Apamea inficita* (Wlk.) (9369. *Apamea inficita* (Wlk.)) – 20-VII-2001 2, 31-VII-2001 1, 22-VII-2002 1, 6-VIII-2002 1, 22-VIII-2002 1, 16-VII-2005 2, 26-VII-2005 1 and 4-VIII-2005 1.
1933. *Apamea devastator* (Brace) (9382. *Crymodes devastator* (Brace)) (Glassy Cutworm Moth or Destructive Quaker) – 7-VII-2002 1, 6-VIII-2002 4, 22-VIII-2002 1, 15-IX-2002 1, 29-VII-2003 1, 16-VII-2005 1, 26-VII-2005 1 and 7-IX-2005 1.
1936. *Apamea niveivenosa* (Grt.) (9374. *Apamea niveivenosa* (Grt.)) White-veined Quaker) – 20-VII-2001 1, 31-VII-2001 1 and 16-VII-2005 1.
1938. *Resapamea passer* (Gn.) (9391. *Luperina passer* (Gn.)) (Dock Rustic) – 29-VII-2003 1 and 16-VII-2005 1.
1939. *Eremobina claudens* (Wlk.) (9396. *Eremobina claudens* (Wlk.)) (Alberta Quaker) – 22-VIII-2002 1 and 15-IX-2002 1.
1943. *Oligia egens* (Wlk.) (9417. *Oligia egens* (Wlk.)) (Neomogen's Quaker) – 31-VII-2001 1, 6-VIII-2002 3, 22-VIII-2002 1, 3-IX-2002 2, 15-IX-2002 1 and 29-VIII-2003 1.
1944. *Oligia mactata* (Gn.) (9419. *Oligia mactata* (Gn.)) (Prairie Quaker) – 7-IX-2005 1.
1945. *Oligia illocata* (Wlk.) (9420. *Oligia illocata* (Wlk.)) (Wandering Quaker) – 29-VIII-2001 1, 15B-IX-2002 2 and 7-IX-2005 1.
1946. *Neoligia subjuncta* (Sm.) (9412.1. *Oligia laevigata* (Sm.)) (Short-cloaked Quaker) – 3-IX-2002 1 and 26-VII-2005 1.
1950. *Photedes includens* (Wlk.) (9434. *Spartiniphaga includens* (Wlk.)) (Silver-C Borer) – 6-VIII-2002 1, 22-VIII-2002 1, 15-IX-2002 1 and 26-VII-2005 1.
1954. *Hypocoena inquinata* (Gn.) (9437. *Chortodes inquinata* (Gn.)) (Sordid Wainscot) – 16-VII-2005 1.
1955. *Hypocoena basistriga* (McD.) (9439. *Chortodes basistriga* (McD.)) (Base-streaked Wainscot) – 29-VIII-2001 1.
1956. *Hypocoena rufostrigata* (Pack.) (9440. *Chortodes rufostrigata* (Pack.)) (Brown-streaked Rustic) – 7-VII-2002 4 and 22-VII-2002 1.
1959. *Capsula subflava* (Grt.) (9450. *Archanara subflava* (Grt.)) (Subflava Sedge Borer) – 15-IX-2002 1.
1962. *Amphipoea americana* (Spey.) (9457. *Amphipoea americana* (Speyer)) (American Ear Moth) – 15-IX-2002 1 and 4-VIII-2005 1.
1968. *Hydraecia perobliqua* Hamp. (9515. *Hydraecia perobliqua* Hamp.) (Oblique Rustic) – 3-IX-2002 1, 26-VII-2005 1 and 4-VIII-2005 1.

Noctuidae, Noctuinae, Arzamini

1971. *Bellura obliqua* (Wlk.) (9525. *Bellura obliqua* (Wlk.)) (Cattail Borer Moth) – 14-VI-2002 2, 25-VI-2002 1 and 27-V-2004 2.

Noctuidae, Noctuinae, Xylenini

1976. *Xylena curvimacula* (Morr.) (9874. *Xylena curvimacula* (Morr.)) (Dot-and-Dash Swordgrass Moth) – 27-V-2002 1, 11-IV-2003 1, 20-IV-2003 1 and 11-V-2005 1.
1977. *Xylena thoracica* (Put.-Cram.) (9875. *Xylena thoracica* (Putnam-Cramer)) (Gray Swordgrass Moth) – 11-V-2003 1.
1978. *Xylena cineritia* (Grt.) (9876. *Xylena cineritia* (Grt.)) (Western Swordgrass Moth) – 26-IV-2001 1, 27-V-2002 1 and 11-V-2003 1.
1981. *Homoglaea hircina* Morr. (9881. *Homoglaea hircina* Morr.) (Goat Sallow) – 26-IV-2001 1, 11-IV-2003 1 and 20-IV-2003 1.

1983. *Litholomia napaea* (Morr.) (9884. *Litholomia napaea* (Morr.)) (Dark Gray Peasant) – 27-V-2002 1, 11-IV-2003 1, 20-IV-2003 1, 29-VIII-2003 1, 28-IX-2004 6 SR, 11-V-2005 1 and 7-IX-2005 1.
1999. *Eucirroedia pampina* (Gn.) (9952. *Eucirroedia pampina* (Gn.)) (Scalloped Sallow) – 29-VIII-2001 1, 13-IX-2002 1, 3-IX-2002 1, 15-IX-2002 2, 29-VIII-2003 1 and 7-IX-2005 2.
2003. *Anathix puta* (G. & R.) (9962. *Anathix puta* (G. & R.)) (Dusky Sallow or Puta Sallow) – 29-VIII-2001 1, 22-VIII-2002 1 and 15-IX-2002 2.
2005. *Xanthia tatago* Laf. & Mik. (9965. *Xanthia togata* (Esp.)) (Pink-barred Sallow) – 15-IX-2002 1 and 29-VIII-2003 1.
2007. *Hillia iris* (Zett.) (9967. *Hillia iris* (Zett.)) (Oris Rover) – 28-IX-2004 1.
2008. *Brachylomia populi* (Stkr.) (9993. *Brachylomia populi* (Stkr.)) (Cloaked Peasant) – 22-VIII-2002 1 and 7-IX-2005 1.
2012. *Parastichtis suspecta* (Wlk.) (9431. *Parastichtis suspecta* (Wlk.)) (Mottled Quaker) – 22-VII-2002 3, 22-VIII-2002 1 and 4-VIII-2005 1.
2019. *Enargia decolor* (Wlk.) (9549. *Enargia decolor* (Wlk.)) (Angle-striped Sallow) – 13-IX-2001 1, 22-VIII-2002 1, 3-IX-2002 1, 15-IX-2002 1, 29-VIII-2003 1 and 28-IX-2004 3 SR.
2020. *Enargia infumata* (Grt.) (9550. *Enargia infumata* (Grt.)) (Lesser Angle-striped Sallow) – 22-VII-2002 1, 16-VII-2003 1, 16-VII-2005 1, 26-VII-2005 1 and 4-VIII-2005 1.
2021. *Ipimorpha pleonectusa* Grt. (9555. *Ipimorpha pleonectusa* Grt.) (Even-lined Sallow) – 31-VII-2001 2, 22-VIII-2002 1 and 4-VIII-2005 1.
2030. *Platypolia anceps* (Steph.) (9976. *Platypolia anceps* (Steph.)) (Rugged Rover) – 15-IX-2002 1.
2038. *Ufeus satyricus* Grt. (11051. *Ufeus satyricus* Grt.) (Satyr Dart) – 13-IX-2001 2 and 28-IX-2004 2.

Noctuidae, Noctuinae, Orthosiini

2042. *Stretchia plusiaeformis* Hy. Edw. (10471. *Stretchia plusiaeformis* Hy. Edw.) (Gray Spectacles) – 16-IV-2001 17 and 20-IV-2003 2.
2044. *Orthosia revicta* (Morr.) (10490. *Orthosia revicta* (Morr.)) (Subdued Quaker) – 26-IV-2001 3 and 11-V-2005 1.
2045. *Orthosia segregata* Sm. (10493. *Orthosia segregata* Sm.) (Segregate Penman) – 26-IV-2001 5, 27-V-2002 1, 20-IV-2003 1, 11-V-2003 1, 27-V-2004 2 and 11-V-2005 1. *Orthosia segregata* f. *negussa* Sm. – 26-IV-2001 2, 27-V-2004 1 and 11-V-2005 1.
2046. *Orthosia hibisci* (Gn.) (10495. *Orthosia hibisci* (Gn.)) (Variable Penman or Speckled Green Fruitworm Moth) – 26-IV-2001 6, 20-IV-2003 1 and 11-V-2003 1.
2049. *Egira dolosa* (Grt.) (10513. *Egira dolosa* (Grt.)) (Grieving Woodling or Greater Black Letter Dart) – 26-IV-2001 1.

Noctuidae, Noctuinae, Tholerini

2053. *Nephelodes minians* (Gn.) (10524. *Nephelodes minians* Gn.) (Shaded Umber, Brown Cutworm Moth or Bronzed Cutworm Moth) – 29-VIII-2001 1, 22-VIII-2002 1, 29-VIII-2003 1, 4-VIII-2005 1 and 7-IX-2005 1.

Noctuidae, Noctuinae, Hadenini

2058. *Anarta trifolii* (Hufn.) (10223. *Discestra trifolii* (Hufn.)) (Clover Cutworm or The Nutmeg) – 9-VI-2003 1.

2064. *Anarta farnhami* (Grt.) (10232. *Discestra farnhami* (Grt.)) (Farnham's Discestra) – 14-VI-2002 2 and 27-V-2004 1.
2074. *Polia nimbosa* (Gn.) (10275. *Polia nimbosa* (Gn.)) (Stormy Arches) – 25-VI-2002 1, 7-VII-2002 1 and 1-VII-2003 1.
2075. *Polia imbrifera* (Gn.) (10276. *Polia imbrifera* (Gn.)) (Cloudy Arches) – 13-VI-2005 1.
2079. *Polia purpurissata* (Grt.) (10280. *Polia purpurissata* (Grt.)) (Purple Arches) – 20-VII-2001 6, 31-VII-2001 2, 22-VII-2002 3, 6-VII-2002 3, 22-VIII-2002 1, 29-VII-2003 2, 16-VII-2005 2, 26-VII-2005 1 and 4-VIII-2005 1.
2082. *Lacanobia atlantica* (Grt.) (10297. *Lacanobia atlantica* (Grt.)) (Atlantic Arches) – 20-VII-2001 1, 14-VI-2002 4, 22-VII-2002 1, 6-VIII-2002 1, 24-VI-2004 1, 1-VI-2005 1 and 13-VI-2005 1.
2084. *Lacanobia subjuncta* (G. & R.) (10299. *Lacanobia subjuncta* (G. & R.)) (Harnessed Arches) – 13-VI-2005 1.
2088. *Melanchnra assimilis* (Morr.) (10295. *Melanchnra assimilis* (Morr.)) (Black Arches) – 25-VI-2002 2 and 7-VII-2002 1.
2094. *Trichordestra dodii* (Sm.) (10305. *Trichordestra dodii* (Sm.)) (Dod's Arches) – 14-VI-2002 1 and 25-VI-2002 1.
2096. *Trichordestra liquida* (Grt.) (10308. *Trichordestra liquida* (Grt.)) (Liquid Arches) – 1-VI-2005 2.
2101. *Hada sutrina* (Grt.) (10324. *Hecatera sutrina* (Grt.)) (The Cobbler) – 13-VI-2005 1.
2102. *Mamestra configurata* (Wlk.) (10271. *Mamestra configurata* (Wlk.)) (Bertha Armyworm) – 25-VI-2002 1, 7-VII-2002 3 and 16-VII-2005 1.
2103. *Mamestra curialis* (Sm.) (10272. *Mamestra curialis* (Sm.)) – 13-VI-2003 2.
2107. *Sideridis rosea* (Harv.) (10265. *Sideridis rosea* (Harv.)) (Rosy Penman or The Rosywing) – 14-VI-2002 1, 25-VI-2002 1 SR, 9-VI-2003 1, 27-V-2004 1, 10-VI-2005 1 and 12-VI-2005 1.
2110. *Hadena circumvadis* (Sm.) (10322. *Anepia circumvadis* (Sm.)) – 1-VII-2003 1.

Noctuidae, Noctuinae, Leucaniini

2112. *Faronta diffusa* (Wlk.) (10431. *Faronta diffusa* (Wlk.)) (Cloudy Wainscot or Wheat-head Armyworm Moth) – 14-VI-2002 1, 7-VII-2002 2 and 11-VII-2003 1.
2113. *Dargida procinctus* (Grt.) (10428. *Dargida procincta* (Grt.)) (The Girdler) – 29-VIII-2003 1.
2114. *Mythimna oxygala* (Grt.) (10436. *Aletia oxygala* (Grt.)) (Lesser Wainscot) – 20-VII-2001 1, 31-VII-2001 2, 7-VII-2002 2, 26-VII-2005 1 and 4-VIII-2005 1.
2118. *Leucania multilinea* Wlk. (10446. *Leucania multilinea* Wlk.) (Many-lined Wainscot) – 20-VII-2001 3, 1-VII-2003 1 and 16-VII-2005 1.
2119. *Leucania commoides* Gn. (10447. *Leucania commoides* Gn.) (Comma Wainscot) – 20-VII-2001 1, 25-VI-2002 1, 16-VII-2003 1, 26-VII-2005 1 and 4-VIII-2005 2.
2120. *Leucania insueta* Gn. (10449. *Leucania insueta* Gn.) (Heterodox Wainscot) – 13-VI-2005 1.

Noctuidae, Noctuinae, Eriopygini

2142. *Lacinipolia meditata* (Grt.) (10368. *Lacinipolia meditata* (Grt.)) (The Thinker or Pink-backed Cutworm Moth) – 20-VII-2001 2, 31-VII-2001 2, 6-VIII-2002 1 and 4-VIII-2005 2.
2143. *Lacinipolia lustralis* (Grt.) (10370. *Lacinipolia lustralis* (Grt.)) (Lustrous Arches) – 25-VI-2002 2, 7-VII-2002 3, 24-VI-2004 3 and 13-VI-2005 1.
2145. *Lacinipolia anguina* (Grt.) (10372. *Lacinipolia anguina* (Grt.)) (Snaky Arches) – 13-VI-2005 1.

2148. *Lacinipolia vicina* (Grt.) (10394. *Lacinipolia vicina* (Grt.)) (Small Gray Arches) – 11-VII-2003 1, 16-VII-2003 1, 29-VII-2003 2, 16-VII-2005 1, 26-VII-2005 1 and 4-VIII-2005 2.
2150. *Lacinipolia renigera* (Steph.) (10397. *Lacinipolia renigera* (Steph.)) (Kidney-spotted Arched or Bristly Cutworm) – 20-VII-2001 1, 31-VII-2001 1, 7-VII-2002 1, 23-VII-2002 1, 6-VIII-2002 1, 22-VIII-2002 1, 16-VII-2005 1 and 26-VII-2005 1.
2152. *Lacinipolia lorea* (Gn.) (10405. *Lacinipolia lorea* (Gn.)) (Bridled Arches) – 7-VII-2002 1 and 24-VI-2004 1.
2153. *Lacinipolia olivacea* (Morr.) (10406. *Lacinipolia olivacea* (Morr.)) (Olive Arches) – 20-VII-2001 2, 31-VII-2001 1, 22-VII-2002 1, 6-VIII-2002 1, 22-VII-2002 1, 26-VII-2005 1 and 4-VIII-2005 1.
2162. *Protorthodes oviduca* (Gn.) (10563. *Protorthodes oviduca* (Gn.)) (Ruddy Quaker) – 25-VI-2002 6 SR, 27-V-2003 2, 9-VI-2003 1, 16-VI-2003 1 and 27-V-2004 2.
2166. *Orthodes obscura* (Sm.) (10290. *Polia obscura* (Sm.)) (Obscure Arches) – 14-VI-2002 1 and 13-VI-2005 2.
2168. “*Polia*” *detracta* (Wlk.) (10288. *Polia detracta* (Wlk.)) (Dingy or Disparaged Arches) – 14-VI-2002 2, 7-VII-2002 1, 11-VII-2003 1 and 13-VI-2005 1.

Noctuidae, Noctuinae, Noctuini

2174. *Anicla tepperi* (Sm.) (10910. *Euagrotis tepperi* (Sm.)) (Black-girdled Dart) – 7-VII-2002 1.
2176. *Actebia balanitis* (Grt.) (10923. *Protexarnis squalida* (Grt.)) (Bracketed Dart or Acorn Dart) – 7-VII-2002 4 and 11-VII-2003 1.
- Euxoa* sp. – 15B-IX-2002 1.
2189. *Euxoa auxiliaris* (Grt.) (10731. *Chorizagrotis auxiliaris* (Grt.)) (Auxiliary Dart) – 7-VII-2002 2.
2194. *Euxoa messoria* (Harr.) (10705. *Euxoa messoria* (Harr.)) (Reaper Dart or Dark-sided Cutworm Moth) – 29-VIII-2003 1.
2195. *Euxoa divergens* (Wlk.) (10702. *Euxoa divergens* (Wlk.)) (Divergent Dart) – 25-VI-2002 2, 7-VII-2002 2, 24-VI-2004 1 and 26-VII-2005 1.
2204. *Euxoa tristicula* (Morr.) (10723. *Euxoa tristicula* (Morr.)) (Early Cutworm or Three-marked Dart) – 14-VI-2002 1, 7-VII-2002 3, 11-VII-2003 1 and 13-VI-2005 1.
2215. *Euxoa declarata* (Wlk.) (10755. *Euxoa declarata* (Wlk.)) (Clear Dart) – 29-VIII-2001 1 and 15-IX-2002 1.
2216. *Euxoa campestris* (Grt.) (10756. *Euxoa campestris* (Grt.)) (Flat Dart) – 31-VII-2001 1, 7-VII-2002 1, 22-VIII-2002 1 and 3-IX-2002 3.
2220. *Euxoa tessellata* (Harr.) (10805. *Euxoa tessellata* (Harr.)) (Tessellate Dart) – 11-VII-2003 1 and 29-VII-2003 1.
2222. *Euxoa albipennis* (Grt.) (10807. *Euxoa albipennis* (Grt.)) (White-winged Dart) – 29-VIII-2001 1, 22-VIII-2002 3 and 3-IX-2002 2.
2228. *Euxoa ochrogaster* (Gn.) (10801. *Euxoa ochrogaster* (Gn.)) (Red-backed Cutworm Moth) – 22-VII-2002 2, 6-VIII-2002 1, 22-VIII-2002 2 and 29-VIII-2003 1.
2232. *Euxoa obeliscoides* (Gn.) (10817. *Euxoa obeliscoides* (Gn.)) (Obelisk Dart) – 3-IX-2002 1 and 16-VII-2003 1.
2233. *Euxoa basalis* (Grt.) (10798. *Euxoa basalis* (Grt.)) (Pale-based Dart) – 31-VII-2001 1, 29-VIII-2001 1, 13-IX-2001 1, 6-VIII-2002 2 and 3-IX-2002 1.
2239. *Euxoa servitus* (Sm.) or 2240. *Euxoa auripennis* Laf. (10852. *Euxoa auripennis* Laf. or 10854. *Euxoa servita* (Sm.)) – 31-VII-2001 1, 22-VIII-2002 1 and 16-VII-2003 1.
2252. *Euxoa quadridentata* (G. & R.) (10830. *Euxoa quadridentata* (G. & R.)) (Four-toothed Dart) – 22-VII-2002 1, 15-IX-2002 1 and 29-VIII-2003 2.

2255. *Euxoa detersa* (Wlk.) (10838. *Euxoa detersa* (Wlk.)) (Rubbed Dart or Sand Cutworm Moth) – 29-VIII-2003 1.
2257. *Euxoa aequalis* (Harv.) (10777. *Euxoa aequalis* (Harv.)) (Aequalis Dart) – 3-IX-2002 3, 15-IX-2002 2 and 29-VIII-2003 1.
2269. *Euxoa flavicollis* (Sm.) (10864. *Euxoa flavicollis* (Sm.)) – 22-VII-2002 1 and 16-VII-2003 1.
2271. *Euxoa ridingsiana* (Grt.) (10861. *Euxoa ridingsiana* (Grt.)) (Riding's Dart) – 31-VII-2001 1, 22-VII-2002 1 and 6-VIII-2002 2.
2274. *Feltia jaculifera* (Gn.) (10670. *Feltia jaculifera* (Gn.)) (Dingy Cutworm Moth) – 20-VII-2001 1, 31-VII-2001 1, 29-VIII-2001 1, 6-VIII-2002 1, 22-VIII-2002 1, 3-IX-2002 2, 15-IX-2002 1, 26-VII-2005 1 and 4-VIII-2005 1.
2275. *Feltia herilis* (Grt.) (10676. *Feltia herilis* (Grt.)) (Master's Dart) – 20-VII-2001 2, 31-VII-2001 4, 6-VIII-2002 1, 22-VIII-2002 1, 3-IX-2002 1 and 15-IX-2002 1.
2280. *Agrotis orthogonia* Morr.) (10645. *Agrotis orthogonia* Morr.) (Pale Western Cutworm) – 3-IX-2002 1.
2282. *Agrotis venerabilis* Wlk. (10651. *Agrotis venerabilis* Wlk.) (Venerable Dart) – 29-VIII-2001 1, 14-VI-2002 2, 22-VIII-2002 1, 3-IX-2002 1 and 29-VIII-2003 1.
2283. *Agrotis vancouverensis* Grt. (10652. *Agrotis vancouverensis* Grt.) (Vancouver Dart) – 14-VI-2002 2, 25-VI-2002 1, 9-VI-2003 1, 16-VI-2003 1, 27-V-2004 1 and 24-VI-2004 1 SR.
2289. *Ochropleura implecta* Laf. (10891. *Ochropleura plecta* (L.)) (Flame-shouldered Dart) – 7-VII-2002 2.
2292. *Diarsia rubifera* (Grt.) (10917. *Diarsia rubifera* (Grt.)) (Rubifera Dart) – 27B-VI-2003 1.
2294. *Cerastis salicarum* (Wlk.) (10996. *Cerastis salicarum* (Wlk.)) (Willow Dart) – 26-IV-2001 4 and 27-V-2002 1.
2295. *Paradiarsia littoralis* (Pack.) (10992. *Paradiarsia littoralis* (Pack.)) (Labrador Dart) – 25-VI-2002 1, 7-VII-2002 1, 16-VI-2003 1, 24-VI-2004 4 SR, 1-VI-2005 1 and 13-VI-2005 1.
2301. *Cryptocala acadensis* (Bethune) (11012. *Cryptocala acadensis* (Bethune)) (Catocaline Dart) – 29-VII-2001 1, 22-VII-2002 1, 6-VIII-2002 1, 16-VII-2005 1 and 26-VII-2005 1.
2302. *Spaelotis clandestina* (Harr.) (10926. *Spaelotis clandestina* (Harr.)) (Clandestine Dart) – 7-VII-2002 1, 29-VII-2003 1 and 16-VII-2005 1.
2304. *Eurois occulta* (L.) (10929. *Eurois occulta* (L.)) (Great Gray Dart) – 31-VII-2001 1, 7-VII-2002 1, 22-VIII-2002 1, 15-IX-2002 1 and 1-VII-2003 1.
2305. *Eurois astricta* Morr. (10930. *Eurois astricta* Morr.) (Great Brown Dart) – 20-VII-2001 1, 31-VII-2001 1, 22-VII-2002 2, 16-VII-2005 1 and 26-VII-2005 1.
2306. *Eurois nigra* (Sm.) (10931. *Eurois nigra* (Sm.)) (Great Black Dart) – 20-VII-2001 1.
2307. *Graphiphora augur* (Grt.) (10928. *Graphiphora augur* (Grt.)) (Soothsayer Dart) – 16-VII-2005 1.
2313. *Xestia smithii* (Snell.) (10944. *Xestia smithii* (Snellen)) (Smith's Dart or Spotted Clay Dart) – 31-VII-2001 3, 6-VIII-2002 1, 26-VII-2005 1 and 4-VIII-2005 2.
2314. *Xestia normaniana* (Grt.) (10943. *Xestia normaniana* (Grt.)) (Norman's Dart) – 20-VII-2001 6, 31-VII-2001 1 and 4-VIII-2005 2.
2322. *Xestia c-nigrum* (L.) (10942. *Xestia c-nigrum* (L.)) (Black-letter Dart) – 25-VI-2002 1, 7-VII-2002 1, 22-VII-2002 1, 6-VIII-2002 1 and 26-VII-2005 1.
2335. *Agnorisma bugrai* (Koçak) (10954. *Xestia collaris* (G. & R.)) (Collared Dart) – 29-VIII-2001 1, 22-VIII-2002 3, 3-IX-2002 3, 15B-IX-2002 1, 29-VIII-2003 2 and 7-IX-2005 1.
2337. *Pseudohermonassa tenuicula* (Morr.) (10951. *Xestia tenuicula* (Morr.)) (Hair-pin Dart) – 20-VII-2001 2, 6-VIII-2002 2, 16-VII-2005 1, 26-VII-2005 1 and 4-VIII-2005 1.

2344. *Protolampra rufipectus* (Morr.) (11004. *Protolampra rufipectus* (Morr.)) (Red-breasted Dart) – 20-VII-2001 1, 22-VII-2002 1, 6-VIII-2002 4, 22-VIII-2002 1, 26-VII-2005 1 and 4-VIII-2005 3.
2355. *Abagrotis hermina* Laf. (Not in Hodges) – 15-IX-2002 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 (AH) is most similar (57.50%) to the Buffalo Lake Conservation Area (BL), (56.38%) to the semi-urban Erskine site (ER) and (56.34%) to the Big Knife area. It was least similar (27.20%) to that of the Dry Island Area (DI).

SUMMARY

Four hundred and thirty-seven species of moths were found in the area. The area was sampled with ultraviolet traps on 42 trap nights. To put things into perspective, Pohl et al (2010) document 2367 species of Lepidoptera for Alberta. As this area, though small, is quite typical Aspen Parkland, it is felt that the majority of the species characteristic of this ecological zone are listed.

Of the 13 major areas involved in the present study, six species of moths, *Coleophora kearfotella*, *Acleris fragariana*, *Phaneta salmicolorana*, *Phaneta artemisiana*, *Eupithecia ammonata* and *Mamestra curialis* were found only in this area.

ACKNOWLEDGEMENTS

Thanks are extended to Gary Anweiler for verifying or identifying the macromoths and to Greg Pohl for help in the identification of a number of micromoths. Chris Schmidt kindly looked at the Arctiids and some of the Geometrids, Jean-François Landry determined the *Coleophora* specimens, Doug Macaulay identified the Pterophorid specimens and George Balogh named the *Eupithecia* specimens. Jason Dombroskie provided help with some of the Tortricidae.

Felix Sperling and Danny Shpeley facilitated the study of specimens in the Bowman Collection of the Strickland Museum at the University of Alberta, and Greg Pohl did the same for the Northern Forest Research Centre Entomology Collection. Ernest Mengersen is thanked for allowing access to the Entomology Collection at Olds College.

No outside funding was sought, or received, for this study.

LITERATURE CITED

- Adamski, David. 2000. A new species of Glyphidocera from south-central Colorado (Lepidoptera: Gelechioidea: Glyphidoceridae). *Fabreries* 25(4): 69-78.
- Bird, C. D. 2007. Moths of an aspen parkland area 3 km south of Nevis, Alberta, 2001-2005. Report submitted to Alberta Parks and Protected Areas. 22 pp.

- Bird, C. D. 2008. Moths of an aspen parkland area 3 km south of Nevis, Alberta, 2001-2005 update. Report submitted to Alberta Parks and Protected Areas. 22 pp.
- Bird, C. D. 2009. Moths of an aspen parkland area 3 km south of Nevis, Alberta, 2001-2005, 2008 update. Report submitted to Alberta Parks and Protected Areas. 22 pp.
- Bird, C. D. 2010. Moths of an aspen parkland area 3 km south of Nevis, Alberta, 2001-2005, 2009 update. Report submitted to Alberta Parks and Protected Areas. 22 pp.
- Bowman, Kenneth 1951. An annotated list of the Lepidoptera of Alberta. *Can. J. Zoology* 29: 121-165.
- Hodges, R. W. (ed.). 1983. Check List of the Lepidoptera of America North of Mexico. E.W. Classey Ltd. & The Wedge Entomological Research Foundation.
- Lafontaine, J. D. & B.C. Schmidt. 2010. Annotated check list of the Noctuoidea (Insecta, Lepidoptera) of North America north of Mexico. *ZooKeys* 40: 1-239.
- Landry, B. & J.-F. Landry. 2004. The genus *Alucita* in North America, with description of two new species (Lepidoptera: Alucitidae). *The Canadian Entomologist* 136: 553-579.
- Pohl, G. R., G. G. Anweiler, B. C. Schmidt and N. G. Kondla. 2010. An annotated list of the Lepidoptera of Alberta, Canada. *ZooKeys* 38: 1-549.
- Pohl, G. R., J. J. Dombroskie, J.-F. Landry, C. D. Bird and V. Nazari. 2011. Errata and first update to the 2010 checklist of the Lepidoptera of Alberta. *ALG Newsletter* Spring 2011, pp. 10-16.
- Schintlmeister, A. 1983 [1984]. Zum status einiger fernöstlicher taxa. *Notodontiden-Studien I. Zeitschrift der Arbeitsgemeinschaft Österreichischer Entomologen* 35: 106-111.

USEFUL BOOKS ON MOTHS

- Covell, Charles V., Jr. 1984. *A Field guide to Moths; Eastern North America*. Houghton, Mifflin Co., Boston, New York.
- Handfield, Louis. 1999. *Le Guide des Papillons du Quebec*. Vol. 1. Broquet, Boucherville, QC.
- Handfield, Louis. 2011. *Le Guide des Papillons du Quebec*. Vol. 1. Partie 1 & 2, 1352 pp. plus 166 plates.
- Ives, W.G.H. & H.R. Wong. 1988. *Tree and Shrub Insects of the Prairie Provinces*. Can. Forestry Serv., Northern For. Centre, Inf. Rept. NOR-X-292.
- Pohl, G. R., G. G. Anweiler, B. C. Schmidt and N. G. Kondla. 2010. An annotated list of the Lepidoptera of Alberta, Canada. *ZooKeys* 38: 1-549.
- Powell, J. A. & P. A. Opler. 2009. *Moths of Western North America*. Univ. California Press. 369 pp.

APPENDIX COLLECTION NIGHTS

- 2001 – April 26; July 20, 31; August 29; and September 13.
- 2002 – April 20; May 9, 27; June 9, 14, 16, 25; July 1, 7, 11, 16, 22, 29; August 6, 22, 29; September 3 and 15.
- 2003 – April 11, 20; May 11, 27; June 9, 16; July 1, 16, 29 and August 29.
- 2004 – May 27 and June 14.
- 2005 – May 11; June 1, 13; July 16, 26; August 4 and September 7.