

MOTHS OF ROCHON SANDS PROVINCIAL PARK, ALBERTA, 2001-2011

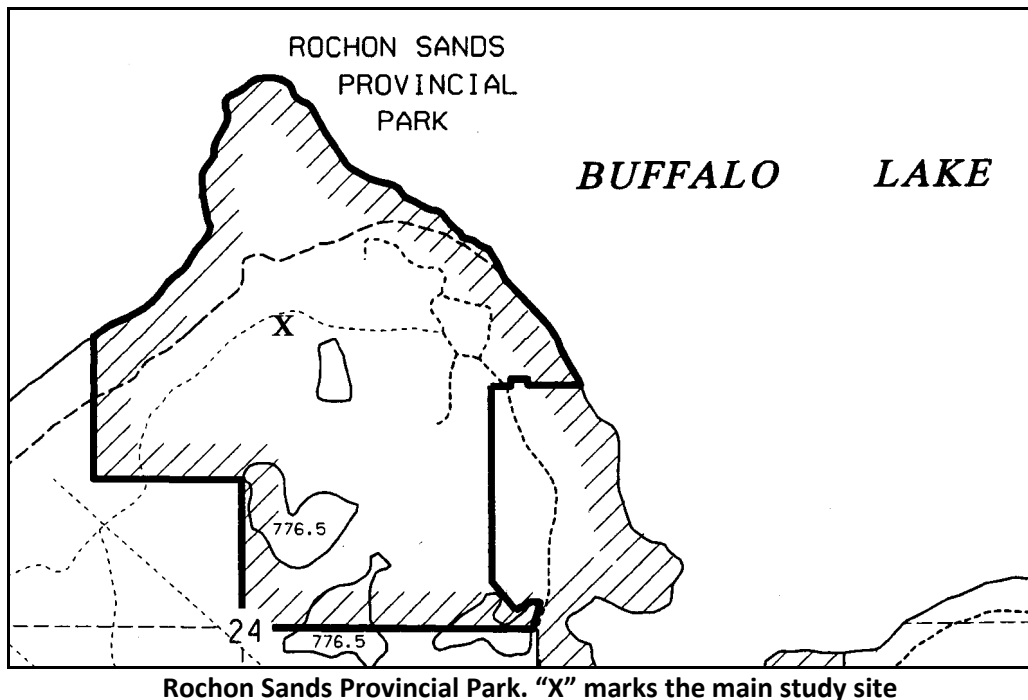
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No major collections were made in the area in 2010 and 2011. The present report includes a number of redeterminations. It also follows the up-to-date order and taxonomy of Pohl et al. (2010), rather than that of Hodges et al. (1983).

THE AREA

Rochon Sands Provincial Park, on the south side of Buffalo Lake in south-central Alberta, is located 24 km northwest of Stettler. Ecologically it is found in the Aspen Parkland. Vegetation types found in the Park are deciduous (aspen and balsam poplar) woods, shrub (saskatoon and chokecherry) thickets, and various lake-edge and beach communities.

W.J. Adams (1971) apparently put together the first biological inventory of the Park with a brief listing of vascular plants, birds and mammals. This was followed by a more detailed inventory by Ebel et al. (1973) of the same groups. Bird (1995) prepared a checklist of the plants of Buffalo Lake, including the Park. Other than the present, ongoing work on moths (Bird 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009), no inventory of the insects of the Park has ever been made.



BACKGROUND

Provincial Parks and other areas where natural vegetation is protected are of great value as the flora and fauna present in them are typical of what was in Alberta before

widespread agricultural activities replaced them with species associated with cultivated grains and hay crops. As a result, many of Alberta's "rare and endangered" species are now found only, or mainly, in such protected areas.



An ultraviolet moth trap set up in a chokecherry/saskatoon/aspen thicket in the Group Campground Area, Rochon Sands Provincial Park, 21 April 2006.

The writer, now retired and living in Erskine, Alberta, has long been interested in the natural flora and fauna of the province. He is a member of the Alberta Lepidopterist's Guild, the purpose of which is to encourage study of Alberta's moths and butterflies. 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. He became acquainted with Rochon Sands Provincial Park many years ago and has long been interested in documenting its native species. This led to the procurement, with help from Wayne Nordstrom, of a Letter of Authority to collect in the Area in 2001, the purpose of which was to produce the present baseline list. A key was kindly provided to allow collecting in the group campground area, at times when it was not in use thus ensuring that the collecting equipment would not be tampered with. The area was visited fifteen times during 2001: April 5; May 3, 11, 14 and 22; June 6 and 19; July 3 and 26; August 7, 23 and 25; and September 10, 14 and 25. On most visits, two ultraviolet light traps were run overnight. The traps were setup beside the thick chokecherry/saskatoon/aspen fringe of the open campground area. No attempts were made to capture specimens with a mercury vapor light and sheet, by sugaring, or, to seriously search for diurnal species. Traps were set up in the Park on three occasions in 2002: May 26, June 1 and July 25. In 2003, traps were set out

on six occasions: April 23, May 13 and 28, June 11, July 3 and September 6; while in 2004, sampling was carried out on 14 occasions – May 1, May 2, May 8, May 19, May 25, June 2, June 8, June 27, July 5, July 13, August 17, August 31, September 11 and September 22. In 2005, the area was studied on May 31, June 14 and 28, July 11, August 26, September 10 and October 13. In 2006, the area was studied on April 21 and 28, May 14, June 7 and August 21. In 2007, the area was studied on April 24. No studies were conducted in the area in 2008. In 2009, the area was studied on 26 July. In 2010, traps were set out on May 25 and June 2.

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

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>.

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.

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, a few 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; an “SR” indicates a sight record.

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 Area 8. Most of Bowman’s records are from Area 10, which includes Edmonton, so most of the species found in the following list would be additions to his Area 8.

HEPIALIDAE – Ghost Moths and Swifts

5. *Gazoryctra novigannus* (B. & Benj.) (29. *Gazoryctra novigannus* (B. & Benj.)) (Novigannus Ghost Moth) – 31-VIII-2004 1, 11-IX-2004 1, 22-IX-2004 1 and 21-VIII-2006 1.
8. *Sthenopsis purpurascens* (Pack.) (19. *Sthenopsis purpurascens* (Pack.)) (Large Ghost Moth) – 26-VII-2001 1.

TINEIDAE – Clothes Moths and others**Tineidae, Tineinae**

44. *Tinea irrepta* Braun (399. *Tinea irrepta* Braun) – 19-VI-2001 1, 3-VII-2003 1, 5-VII-2004 2, 11-VII-2005 1, 26A-VII-2009 1, 26B-VII-2009 1 and 26C-VII-2009 1.
47. *Niditinea orleansella* (Cham.) (412. *Niditinea orleansella* (Cham.)) – 27-VI-2004 1.
49. *Monopis laevigella* (D. & S.) (Not in Hodges) – 14-VI-2005 1 and 7-VI-2006 1.
51. *Monopis spilotella* (Teng.) (421. *Monopis spilotella* Tengström) – 3-VII-2003 1, 5-VII-2004 2 and 13-VII-2004 1.

GRACILLARIIDAE – Gracilariid Moths**Gracillariidae, Gracillariinae**

- Caloptilia* sp. – 28-V-2003 1 and 27-VI-2004 1..
67. *Caloptilia anthobaphes* (Meyr.) (589. *Caloptilia anthobaphes* (Meyr.)) – 17-VIII-2004 1 and 31-VI-2005 2.
76. *Caloptilia stigmatella* (F.) (639. *Caloptilia stigmatella* (F.)) – 2-VI-2010 1.
82. *Parornix conspicuella* (Dietz) (669. *Parornix conspicuella* (Dietz)) – 6-VI-2001 1, 27-VI-2004 2 and 2-VI-2010 1.

Gracillariidae, Lithocolletinae

Phyllonorycter sp. – 31-V-2005 1. Probably *Phyllonorycter apparella*

YPONOMEUTIDAE – Needleminer Moths**Yponomeutidae, Argyrethiinae**

96. *Argyresthia conjugella* Zell. (2449. *Argyresthia conjugella* Zell.) (Apple Fruit Moth) – 27-VI-2004 2.

PLUTELLIDAE – Plutellid Moths



104. *Ypsolopha canariella* (Wlsm.) 2371. *Ypsolopha canariella* (Wlsm.) (Canary Ypsolopha Moth) – 7-VIII-2001 1 and 25-VII-2002 2.
106. *Ypsolopha dentiferella* (Wlsm.) (2376. *Ypsolopha dentiferella* (Wlsm.)) – 26-VII-2001 1, 25-VII-2002 1, 22-IX-2004 1 and 26B-VII-2009 1.
108. *Ypsolopha falciferella* (Wlsm.) (2380. *Ypsolopha falciferella* (Wlsm.)) – 3-V-2001 1.
113. *Plutella vanella* (Wlsm.) (2365. *Plutella vanella* (Wlsm.)) – 26C-VII-2009 1.
114. *Plutella xylostella* (L.) (2366. *Plutella xylostella* (L.)) (Diamondback Moth) – 23-IV-2003 1, 28-V-2003 1, 6-IX-2003 1, 22-IX-2004 1, 31-V-2005 1, 11-VII-2005 1 and 10-X-2005 1.

ELACHISTIDAE – Concealer Moths

Elachistidae, Depressariinae

135. *Agonopterix canadensis* (Bsk.) (878. *Agonopterix canadensis* (Bsk.)) (Canadian Agonopterix Moth) – 26A-VII-2009 1.
138. *Agonopterix argillacea* (Wlsm.) (889. *Agonopterix argillacea* (Wlsm.)) – 3-V-2001 1.
143. *Depressariodes ciniflonella* (Lienig & Zell.) (908. *Depressariodes ciniflonella* (Lienig & Zell.)) – 23-IV-2003 1, 3-V-2003 1, 2-V-2004 1, 8-V-2004 1 and 13-IX-2005 1, 28-IV-2006 6.
146. *Semioscopis packardella* (Clem.) (912. *Semioscopis packardella* (Clem.)) (Packard's Concealer Moth) – 3-V-2001 2, 22-V-2001 1, 26-V-2002 2, 13-V-2003 1, 28-V-2003 1, 1-V-2004 1, 2-V-2004 1 and 16B-V-2006 1.
148. *Semioscopis inornata* Wlsm. (914. *Semioscopis inornata* Wlsm.) – 23-IV-2003 2.
149. *Semioscopis megamicrella* Dyar (915. *Semioscopis megamicrella* Dyar) – 3-V-2001 1, 23-IV-2003 1, 2-V-2004 1 and 21-IV-2006 1.
153. *Depressaria pastinacella* (Dup.) (922. *Depressaria pastinacella* (Dup.)) (Parsnip Webworm Moth) – 3-V-2001 3, 22-V-2001 1 and 2-V-2004 1.
155. *Depressaria alienella* Bsk. (926. *Depressaria alienella* Bsk.) – 11-IX-2004 1.

Elachistidae, Elachistinae

- Elachista sp. – 3-VII-2001 2, 2 VI-2004 1 and 11-VII-2005 1.
159. *Perittia cygnodiella* (Bsk.) (1077. *Perittia cygnodiella* (Bsk.)) – 28-V-2003 1. The identification was made by Dr. Jean-François Landry.

Elachistidae, Agonoxeninae

181. *Blastodacna curvilineella* (Cham.) (1461. *Blastodacna curvilineella* (Cham.)) – 1-V-2004 1.

GLYPHIDOCERIDAE – Glyphidocerid Moths

189. *Glyphidocera hurlberti* Adamski (Not in Hodges) – 27-VI-2004 1, 31-V-2005 1, 13-VII-2004 5, 11-VII-2005 3 and 26B-VIII-2005 1. Described as a new species in Adamski (2000).

COLEOPHORIDAE – Coleophorid Moths

Coleophoridae, Blastobasinae

Hypatopa prob. n. sp. – 13-VII-2004 1. This group is being monographed for the MONA series by Dr. David Adamski. The present specimen was originally called *H. titanella* McD. but Adamski feels that it may belong to a new species.

Coleophoridae, Coleophorinae

Coleophora spp. – 11-VII-2005 1, 26A-VII-2009 1 and 26C-VII-2009 1. These specimens are currently with Dr. Jean-François Landry who is doing a North American monograph of the group. Some of the JFL specimens may be of species that remain to be described.

196.9. *Coleophora multipulvella* (Cham.) (1254. *Coleophora multipulvella* (Cham.)) – 11-VII-2005 1. Reported as new for Alberta in Pohl et al 2011.

199. *Coleophora pruniella* Clem. (1271. *Coleophora pruniella* Clem.) (Cherry Case Bearer) – 3-VII-2001 1, 27-VI-2004 2 13-VII-2004 1 and 11-VII-2005 3.

214. *Coleophora sparsipulvella* Chem. (1352. *Coleophora sparsipulvella* Cham.) – 13-VII-2004 1.

219. *Coleophora glaucicicola* Wood (1378. *Coleophora glaucicicola* Wood) – 13-VII-2004 1 and 11-VII-2005 2.

220. *Coleophora maritella* McD.) (1385. *Coleophora maritella* McD.) – 19-VI-2005. Diurnal specimens were collected by Greg Pohl in a *Juncus balticus* stand on the beach. Specimens are in the NFRC. He comments “previously reported only as far west as Manitoba (but known from recent collections by me near Zama).

222. *Coleophora trifolii* (Curt.) (1388. *Coleophora trifolii* (Curt.)) (Large Clover Case-bearer) – 3-VII-2001 3, 26-VII-2001 1, 13-VII-2004 2, 11-VII-2005 3, 26A-VII-2009 1 and 26B-VII-2009 1.

Coleophora JFL023 – 11-VII-2005 1.

Coleophora JFL084 – 7-VIII-2001 1, 17-VIII-2004 2 and 31-VIII-2004 1.

COSMOPTERYGIDAE – Cosmopterygid Moths

Cosmopterigidae, Cosmopteriginae

241. *Limnaecia phragmitella* Staint. (1515. *Limnaecia phragmitella* Staint.) (Shy Cosmet Moth) – 25-VII-2002 1.

GELECHIIDAE – Gelechiid Moths

Species indet. – 22-V-2001 1, 19-VI-2001 1, 3-VII-2001 1, 26-VII-2001 1, 23-VIII-2001 1, 25-VII-2002 1, 9-VI-2004 2, 27-VI-2004 8, 5-VII-2004 2, 13-VII-2004 6, 17-VIII-2004 1, 31-V-2005

1, 28-VI-2005 2, 11-VII-2005 3, 26B-VIII-2005 2, 7-VI-2006 3 and 26C-VII-2009 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.

Gelechiidae, Gelechiinae, Litini

256. *Coleotechnites blastovora* (McLeod) (1796. *Coleotechnites blastovora* (McLeod)) – 3-V-2001 3, 11-V-2001 1, 22-V-2001 1, 13-V-2003 7, 28-V-2003 6, 1-V-2004 5, 2-V-2004 1 (13 SR) and 8-V-2004 4, 28-IV-2006 7 and 14-V-2006 1.
267. *Xenolechia velatella* (Bsk.) (1880. *Xenolechia velatella* (Bsk.)) – 3-V-2001 1, 13-V-2003 8, 28-V-2003 7, 21-VI-2004 3, 5-VII-2004 1 and 14-V-2006 1. A new species for Alberta, though not just from this area, in Pohl et al. (2005).

Gelechiidae, Gelechiinae, Gelechiini

282. *Gelechia lynceola* Zell. (1946. *Gelechia lynceola* Zell.) – 19-VI-2001 4, 3-VII-2001 3, 3-VII-2003 2, 9-VI-2004 1, 27-VI-2004 5, 5-VII-2004 3, 13-VII-2004 2, 28-VI-2005 5, 11-VII-2005 1 and 7-VI-2006 5.

Gelechiidae, Gelechiinae, Gelechiini

- Chionodes* sp. – 22-V-2001 1, 3-VII-2001 1.
292. *Chionodes mediofuscella* (Clem.) (2093. *Chionodes mediofuscella* (Clem.)) – 28-V-2003 5, 9-VI-2004 5, 27-VI-2004 1 and 31-V-2005 4, 7-VI-2006 2 and 2-VI-2010 1.
293. *Chionodes terminimaculella* (Kft.) (2117. *Chionodes terminimaculella* (Kft.)) – 22-V-2001 1, 28-V-2003 1, 25-V-2004 2 and 25-V-2010 2.
300. *Chionodes psiloptera* (B. & Bsk.) (2111. *Chionodes psilopterus* (B. & Bsk.)) – 26-VII-2001 1, 25-VII-2002 2, 3-VII-2003 1, 25-V-2004 7, 2-VI-2004 3, 9-VI-2004 3, 27-VI-2004 2, 5-VII-2004 1, 17-VIII-2004 2, 31-V-2005 3, 14-VI-2005 2, 28-VI-2005 1, 7-VI-2006 5, 26A-VII-2009 1 and 26C-VII-2009 1.
317. *Filatima abactella* (Clarke) (2127. *Filatima abactella* (Clarke)) – 3-V-2001 1, 22-V-2001 1, 6-VI-2001 1, 28-V-2003 1, 11-VI-2003 1, 3-VII-2003 1, 2-V-2004 1, 19-V-2004 1, 15-V-2004 2 (6 SR), 9-VI-2004 1, 31-V-2005 1, 14-VI-2005 1, 14-V-2006 1, 7-VI-2006 1 and 2-VI-2010 2.

Gelechiidae, Gelechiinae, Gnorimoschemini

Vazrick Nazari is currently revising the Alberta members of this group.

329. *Gnorimoschema gallaesolidaginis* (Riley) (1986. *Gnorimoschema gallaesolidaginis* (Riley)) (Golden Elliptical-gall Moth) – 21-VIII-2006 1.

Gelechiidae, Gelechiinae, Gelechiini

351. *Anacamptis niveopulvella* (Cham.) (2243. *Anacamptis niveopulvella* (Cham.)) – 8-IX-2003 1.

Gelechiidae, Dichomeridinae

354. *Helcystogramma fernaldella* (Bsk.) (2267. *Brachmia fernaldella* (Bsk.)) – 28-V-2003 1, 25-V-2004 2, 31-V-2005 1 and 2-VI-2010 2.

356. *Dichomeris setosella* (Clem.) (2302. *Dichomeris setosella* (Clem.)) – 13-IX-2005 2, 26B-VII-2009 1 and 26C-VII-2009 1.

COSSIDAE – Carpenterworm Moths

392. *Acossus populi* (Wlk.) (2676. *Acossus populi* (Wlk.)) (Aspen Carpenterworm) – 13-VII-2004 1.

TORTRICIDAE – Tortricid Moths

Tortricidae, Tortricinae, Tortricini

Acleris sp. – 3-V-2001 1, 7-VIII-2001 1 and 2-VI-2010 1.

403. *Acleris albicomana* (Clem.) (3502. *Croesia albicomana* (Clem.)) – 21-VIII-2006 1.

411. *Acleris fuscana* (B. & Bsk.) (3520. *Acleris obligatoria* Park & Razowski) – 13-V-2003 1, 1-V-2004 3, 28-V-2003 1, 20-V-2004 2 and 28-V-2004 1.

411. *Acleris fuscana* (B. & Bsk.) or 414. *Acleris cornana* (McD.) (3520. *Acleris fuscana* (B. & Bsk.) or 3523. *Acleris cornana* (McD.)) – 3-V-2001 1, 23-IV-2003 1, 13B-V-2003 1 and 31-V-2005 2.

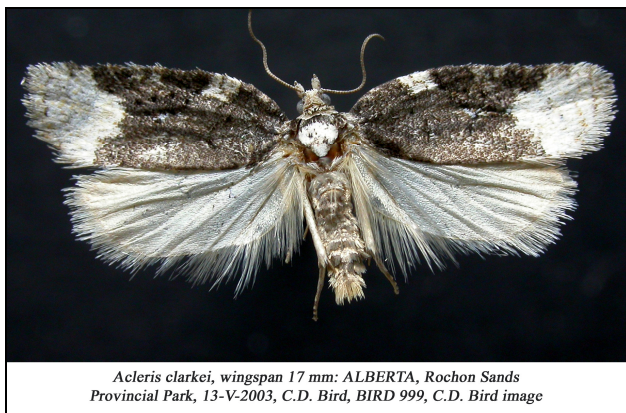
416. *Acleris schalleriana* (L.) (3527. *Acleris schalleriana* (L.)) – 25-IX-2003 1.

417. *Acleris oxycoccana* (Pack.) (3529. *Acleris oxycoccana* (Pack.)) – 25-IX-2001 2.

422. *Acleris robinsoniana* (Fbs.) (3536. *Acleris robinsoniana* (Fbs.)) – 14-IX-2001 1, 13-VIII-2004 2, 17-VIII-2004 5, 11-IX-2004 1, 22-IX-2004 3, 13-IX-2005 1 and 21-VIII-2006 2.

423. *Acleris brittania* (Kft.)/436. *Acleris nigrolinea* (Rob.) complex (3557. *Acleris maximana*/3556. *Acleris nigrolinea* (Rob.) complex) – 24-IV-2007 4.

424. *Acleris logiana* (Cl.) (3540. *Acleris logiana* (Cl.)) (Black-headed Birch Leafroller) – 24-IV-2007 1.



Acleris clarkei, wingspan 17 mm: ALBERTA, Rochon Sands Provincial Park, 13-V-2003, C.D. Bird, BIRD 999, C.D. Bird image

427. *Acleris clarkei* Obr. (3544. *Acleris clarkei* (Obr.)) -13-V-2003 1.

435. *Acleris bowmanana* (McD.) (3553. *Acleris bowmanana* (McD.)) – 24-IV-2007 1.

436. *Acleris nigrolinea* (Rob.) (3556. *Acleris nigrolinea* (Rob.)) – 22-IX-2004 1.

437. *Acleris maximana* (B. & Bsk.) (3557. *Acleris maximana* B. & Bsk.) – 28-IV-2006 1.

Tortricidae, Tortricinae, Cochylini

Species indet. – 25-IX-2002 1, 6-IX-2003 3, 19-V-2004 1, 9-VI-2004 1, 17-VIII-2004 1 and 31-VIII-2004 2. The members of this group are currently being revised by Dr. Eric Metzler and

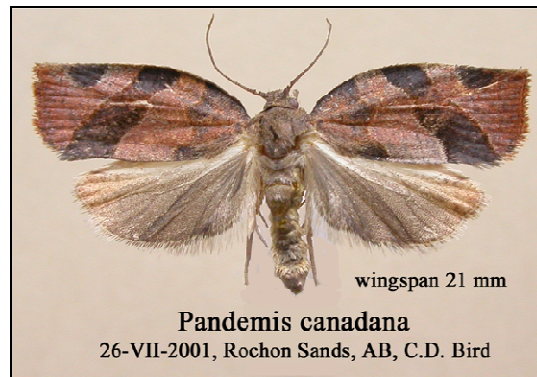
Dr. John Brown. Some of these, and of the following, specimens are presently being examined by them.

448. *Phtheochroa waracana* (Kft.) (3796. *Hysterosia waracana* (Kft.)) – 25-VII-2002 1.
 451. *Platphalonidia felix* (Wlsm.) (3760. *Platphalonidia felix* (Wlsm.)) – 6-IX-2003 1, 9-VI-2004 1, 17-VIII-2004 1, 31-VIII-2004 2, 31-V-2005 1, 14-VI-2005 1, 11-VII-2005 6, 7-VI-2006 8, 21-VIII-2006 2, 26B-VII-2009 1 and 26C-VII-2009 2.
 Not in Pohl et al. (3858. *Hysterosia* nr *voxcana* (Kft.) – 6-VI-2001 1, 11-VII-2005 1 and 14-VI-2005 1.

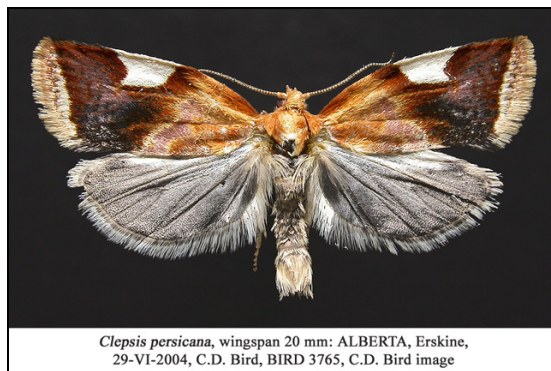
Tortricidae, Tortricinae, Cnephasiini

469. *Decodes horariana* (Wlsm.) (3580. *Decodes hororianus* (Wlsm.)) – 14-IX-2001 1 and 22-IX-2004 1.

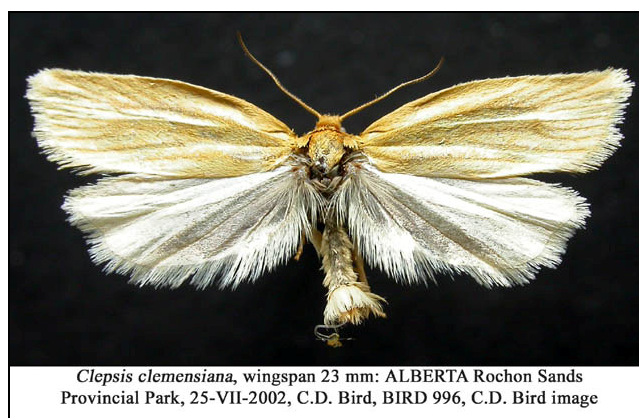
Tortricidae, Tortricinae, Archipini



472. *Pandemis canadana* (Kft.) (3595. *Pandemis canadana* Kft.) (Green Aspen Leaf-tier Moth) – 26-VII-2001 2, 7-VIII-2001 1, 25-VII-2002 1, 11-VII-2005 1, 11-VII-2006 1, 26A-VII-2009 1 and 26C-VII-2009 1.
 480. *Argyrotaenia mariana* (Fern.) (3625. *Argyrotaenia mariana* (Fern.)) (Gray-banded Leafroller Moth) – 25-V-2001 1, 26-V-2003 4 and 19-V-2004 1.
 483. *Choristoneura rosaceana* (Harr.) (3635. *Choristoneura rosaceana* (Harr.)) (Oblique-banded Leafroller Moth) – 3-VII-2001 3, 7-VIII-2001 1, 26-VII-2001 1, 3-VII-2003 1, 13-VII-2004 1, 17-VIII-2004 1 and 26A-VII-2009 1.
 485. *Choristoneura conflictana* (Wlk.) (3637. *Choristoneura conflictana* (Wlk.)) (Large Aspen Tortrix) – 25-VII-2002 1, 3-VII-2003 1, 27-VI-2004 1, 28-VI-2005 1, 11-VII-2005 1 and 7-VI-2006 1.
 486. *Choristoneura fumiferana* (Clem.) (3638. *Choristoneura fumiferana* (Clem.)) (Spruce Budworm Moth) – 26B-VII-2009 1.
 495. *Archips argyrospila* (Wlk.) (3648. *Archips argyrospila* (Wlk.)) (Fruit-tree Leafroller Moth) – 11-VII-2005 1.
 499. *Archips purpurana* (Clem.) (3658. *Archips purpurana* (Clem.)) – 25-VII-2002 1 and 11-VII-2005 1.
 502. *Sydemis afflictana* (Wlk.) (3672. *Sydemis afflictana* (Wlk.)) (Gray Leafroller Moth or Black-and-Gray Banded Leafroller Moth) – 22-V-2001 2, 28-V-2003 2 and 2-VI-2010 1.



508. *Clepsipersicana* (Fitch) (3682. *Clepsipersicana* (Fitch)) (White Triangle Tortrix Moth) – 3-VII-2001 2, 3-VII-2003 3, 27-VI-2004 3, 11-VII-2005 1 and 7-VI-2006 1.



509. *Clepsiclemensiana* (Fern.) (3684. *Clepsiclemensiana* (Fern.)) (Clemen's Clepsip Moth) – 26-VII-2001 1, 25-VII-2002 4, 26A-VII-2009 1, 26B-VII-2009 1 and 26C-VII-2009 1.
 512. *Ptycholoma peritana* (Clem.) (3688. *Ptycholoma peritana* (Clem.)) (Garden Tortrix Moth) – 5-VII-2004 1, 11-VII-2005 1 and 26A-VII-2009 1.
 513. *Ptycholoma virescana* (Clem.) (3689. *Ptycholoma virescana* (Clem.)) – 25-VII-2002 1.

Tortricidae, Tortricinae, Sparganothidini

518. *Sparganothis xanthoides* (Wlk.) (3706. *Sparganothis xanthoides* (Wlk.)) (Mosaic Sparganothis Moth) – 3-VII-2001 1, 27-VI-2004 1 and 13-VII-2004 1.
 523. *Platynota idaeusalis* (Wlk.) (3740. *Platynota idaeusalis* (Wlk.)) (Tufted Apple Bud Moth) – 3-VII-2001 1, 25-VII-2002 1, 13-VII-2004 5, 11-VII-2005 3 and 26C-VII-2009 1.

Tortricidae, Tortricinae, Euliini

528. *Apotomops wellingtoniana* (Kft.) (3589. *Anopina wellingtoniana* (Kft.)) – 7-VI-2006 1.

Tortricidae, Olethreutinae, Endotheniini

533. *Endothenia nubilana* (Clem.) (2743. *Endothenia quadrimaculana nubilana* (Clem.)) – 13-VII-2004 1.

534. *Taniva albolineana* (Kft.) (2745. *Endothenia albolineana* (Kft.)) (Spruce Needleminer) – 19-VI-2001 1.
538. *Bactra verutana* Zell.) (2707. *Bactra verutana* Zell.) (Javelin Moth) – 6-IX-2003 1, 31-VIII-2004 1 and 28-VI-2005 1.
547. *Apotomis removana* (Kft.) (2766. *Apotomis dextrana* (McD.)) (Green Aspen Leafroller Moth) – 7-VIII-2001 1, 2-VI-2004 1, 26B-VII-2009 1 and 26C-VII-2009 1.
556. *Pseudosciaphila duplex* (Wlsm.) (2769. *Pseudosciaphila duplex* (Wlsm.)) (Spotted Leafroller Moth or Poplar Leafroller Moth) – 27-VI-2004 1 and 7-VI-2006 4.
557. *Orthotaenia undulana* (D. & S.) (2770. *Orthotaenia undulana* (D. & S.)) (Dusky Leafroller Moth) – 19-VI-2001 2, 3-VII-2001 1, 3-VII-2003 1, 27-VI-2004 1, 5-VII-2004 1, 31-V-2005 1, 28-VI-2005 1 and 7-VI-2006 1.
- Olethreutes* spp. or in the *Olethreutinae* – 3-VII-2001 2, 13-VII-2004 5, 11-VII-2005 1, 7-VI-2006 2, 21-VIII-2006 1, 26A-VII-2009 1, 26B-VII-2009 1 and 26C-VII-2009 1. Many of the species in this genus are difficult to identify and may require genitalic examination or examination by a specialist.
561. *Olethreutes quadrifidum* (Zell.) (2794. *Olethreutes quadrifidus* (Zell.)) – 3-VII-2001 3, 27-VI-2004 4, 13-VII-2004 1 and 11-VII-2005 1.
582. *Celypha cespitana* (Hbn.) (2859. *Olethreutes cespitana* (Hbn.)) (*Celypha* Moth) – 26B-VII-2009 1.
584. *Hedya ochroleucana* (Frölich) (2861. *Hedya ochroleucana* (Frölich)) (Off-white Hedya Moth) – 26-VII-2001 1, 13-VII-2004 2 and 11-VII-2005 1.
585. *Hedya nubiferana* (Haw.) (2862. *Hedya nubiferana* (Haw.)) (Marbled Orchard Tortrix Moth) – 26A-VII-2009 1.

Tortricidae, Olethreutinae, Enarmoniini

591. *Ancylis laciniana* (Zell.) (3366. *Ancylis laciniana* (Zell.)) – 31-V-2005 1 and 7-VI-2006 2.
601. *Ancylis mediofasciana* (Clem.) (3384. *Ancylis mediofasciana* (Clem.)) – 28-V-2003 1.

Tortricidae, Olethreutinae, Eucosmini

619. *Phaneta formosana* (Zell.) (2916. *Phaneta formosana* (Zell.)) (Beautiful Phaneta Moth) – 28-V-2003 1 and 31-V-2005 1.
625. *Phaneta ochroterminana* (Kft.) (2929. *Phaneta ochroterminana* (Kft.)) (Buff-tipped Phaneta Moth) – 13-VII-2004 1 and 11-VII-2005 1.
626. *Phaneta marmontana* (Kft.) (2933. *Phaneta marmontana* (Kft.)) – 11-VII-2005 1.
631. *Phaneta lapidana* (Wlsm.) (2949. *Phaneta lapidana* (Wlsm.)) – 22-IX-2004 1.
641. *Phaneta fertoriana* (Heinr.) (2965. *Phaneta fertoriana* (Heinr.)) – 21-VIII-2006 1.
648. *Phaneta pallidicostana* (Wlsm.) (2980. *Phaneta pallidicostana* (Wlsm.)) – 13-VII-2004 1.
654. *Phaneta offectalis* (Hulst) (3005. *Phaneta offectalis* (Hulst)) – 27-VI-2004 1.
662. *Eucosma morrisoni* (Wlsm.) (3035. *Eucosma morrisoni* (Wlsm.)) – 26B-VII-2009 1.
664. *Eucosma agricolana* (Wlsm.) (3037. *Eucosma agricolana* (Wlsm.)) – 9-VI-2004 3, 27-VI-2004 1, 11-VII-2005 1 and 7-VI-2006 1.
685. *Eucosma juncticiliana* (Wlsm.) (3119. *Eucosma juncticiliana* (Wlsm.)) – 25-VII-2002 1, 17-VIII-2004 1 and 26A-VII-2009 1.
710. *Gypsonoma fasciolana* (Clem.) (3223. *Gypsonoma fasciolana* (Clem.)) – 7-VI-2006 2 and 2-VI-2010 1.
716. *Gypsonoma adjuncta* Heinr. (3229. *Gypsonoma adjuncta* Heinr.) – 7-VI-2006 12.

725. *Pseudexentera oregonana* (Wlsm.) (3248. *Pseudexentera oregonana* (Wlsm.)) (Early Aspen Leafroller Moth) – 5-IV-2001 2, 23-IV-2003 1, 2-V-2004 1, 21-IV-2006 1, 28-IV-2006 1 and 24-IV-2007 3.
733. *Epinotia castaneana* (Wlsm.) (3288. *Epinotia castaneana* (Wlsm.)) – 11-VII-2005 3.



735. *Epinotia xandana* (Kft.) (3295. *Epinotia xandana* (Kft.)) – 5-IV-2010 photograph.
736. *Epinotia albicapitana* (Kft.) (3296. *Epinotia albicapitana* (Kft.)) – 14-IX-2001 2, 25-IX-2001 2, 22-IX-2004 1 and 13-IX-2005 1. Reported as new for Alberta in Pohl et al. (2005).
740. *Epinotia nisella* (Cl.) (3306. *Epinotia nisella* (Cl.)) (Variable Tortrix Moth, Poplar Branchlet Borer Moth, Yellow-headed Aspen Leaf-tier) – 7-VIII-2001 1, 23-VIII-2001 3, 13-VII-2004 5, 17-VIII-2004 1, 13-IX-2005 1 and 21-VIII-2006 2.
741. *Epinotia criddleana* (Kft.) (3307. *Epinotia criddleana* (Kft.)) – 25-VII-2002 2, 13-IX-2005 1 and 21-VIII-2006 3.
753. *Epinotia lomonana* (Kft.) (3342. *Epinotia lomonana* (Kft.)) – 14-IX-2001 4, 25-IX-2001 2, 31-VIII-2004 2, 22-IX-2004 9, 13-IX-2005 1 and 10-X-2005 2.
757. *Epinotia lindana* (Fern.) (3351. *Epinotia lindana* (Fern.)) (Diamondback Epinotia Moth) – 22-IX-2004 1 and 21-VIII-2006 1.

Tortricidae, Olethreutinae, Grapholitini

778. *Cydia ingrata* (Heinr.) (3460. *Cydia ingrata* (Heinr.)) – 28-V-2003 1, 31-V-2005 1, 14-VI-2005 1 and 2-VI-2010 1.
779. *Cydia populana* (Bsk.) (3463. *Cydia populana* (Bsk.)) – 27-VI-2004 2, 28-VI-2005 1 and 11-VII-2005 2.
780. *Cydia flexiloqua* (Heinr.) (3465. *Cydia flexiloqua* (Heinr.)) – 3-VII-2001 1, 26-VII-2001 1, 27-VI-2004 2 and 26B-VIII-2005 1 and 7-VI-2006 1.
783. *Cydia lautiuscula* (Heinr.) (3480. *Cydia lautiuscula* (Heinr.)) – 7-VI-2006 3.

EPERMENIIDAE – Epermeniid Moths

791. *Ochromolopis ramapoella* (Kft.) (2334. *Ochromolopis ramapoella* (Kft.)) – 7-VI-2006 1.

ALUCITIDAE – Many Plume Moths

792. *Alucita montana* Barnes & Lindsey (2313. *Alucita hexadactyla* (L.)) (Six Plume Moth) – 23-VIII-2001 1, 28-V-2003 2, 17-VIII-2004 1, 31-V-2005 2, 14-VI-2005 1 and 2-VI-2010 2. 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.

PTEROPHORIDAE – Plume Moths

Species indet. – 7-VI-2006 1.

Pterophoridae, Pterophorinae, Oidaematophorini

824. *Hellinsia pectodactylus* (Staud.) (6205. *Hellinsia pectodactylus* (Staudinger)) – 11-VII-2005 1.
826. *Hellinsia lactodactylus* (Cham.) 6213. *Hellinsia lactodactylus* (Cham.) – 7-VI-2006 1.

PYRALIDAE – Pyralid Moths

Pyralidae, Epipaschiinae

858. *Pococera asperatella* (Clem.) (5606. *Tetralopha asperatella* (Clem.)) (Maple Webworm Moth) – 25-V-2004 1, 13-VII-2004 3, 11-VII-2005 1 and 7-VI-2006 2.

Pyralidae, Phycitinae, Phycitini

861. *Acrobasis tricolorella* Grt. (5655. *Acrobasis tricolorella* Grt.) (Tricolored Acrobasis Moth) – 27-VI-2004 1 and 11-VII-2005 1.
863. *Myelopsis minutularia* (Hulst) (5719. *Myelopsis coniellea* Rag.) – 17-VIII-2004 1.
864. *Myelopsis subtetricella* (Rag.) (5718. *Myelopsis subtetricella* (Rag.)) – 14-IX-2001 1, 25-VII-2002 2, 28-V-2003 3, 25-V-2004 3, 27-VI-2004 1 and 31-V-2005 3.
865. *Apomyelois bistriatella* (Hulst) (5721. *Apomyelois bistriatella* (Hulst)) – 25-VII-2002 1? and 22-IX-2004 1.
866. *Eulogia ochrifrontella* (Zell.) (5999. *Eulogia ochrifrontella* (Zell.)) (Broad-banded Eulogia Moth) – 3-VII-2001 1, 26-VII-2001 1 and 13-VII-2004 1.
887. *Catastia actualis* Hulst (5764. *Catastia actualis* Hulst – 27-VI-2004 1.
890. *Meroptera pravella* (Grt.) (5787. *Meroptera pravella* (Grt.)) (Lesser Aspen Webworm Moth) – 22-V-2001 1, 6-VI-2001 1, 19-VI-2001 1, 9-VI-2004 1, 27-VI-2004 1, 13-VII-2004 1, 31-V-2005 2, 11-VII-2005 3 and 7-VI-2006 3.
891. *Sciota basilaris* Zell. (5799. *Nephopterix basilaris* Zell.) – 9-VI-2004 2, 27-VI-2004 3, 13-VII-2004 4, 31-V-2005 1, 14-VI-2005 3 and 7-VI-2006 3.
896. *Telethusia ovalis* (pack.) (5812. *Telethusia ovalis* (Pack.)) – 26B-VII-2009 1.
903. *Pyla fusca* (Haw.) (5829. *Pyla fusca* (Haw.)) (Speckled Black Pyla Moth) – 14-IX-2001 1, 6-IX-2003 1 and 25-V-2004 1.
918. *Hulstia undulatella* (Clem.) (5918. *Hulstia undulatella* (Clem.)) (Sugarbeet Crown Borer Moth) – 23-VIII-2001 1.

920. *Zophodia grossulariella* (Hbn.) (5968. *Zophodia convolutella* (Hbn.)) (Gooseberry Fruitworm Moth) – 3-V-2001 7, 22-V-2001 2, 23-IV-2003 1, 13-V-2003 1, 28-V-2003 1, 2-V-2004 1 (3 SR) and 19-V-2004 1.
928. *Phycitoides mucidella* (Rag.) (5946. *Phycitoides mucidellum* (Rag.)) – 14-IX-2001 2, 25-IX-2001 1, 6-IX-2003 2 and 21-VIII-2006 1.

Pyralidae, Phycitinae, Anerastiini

930. *Anerastia lotella* (Hbn.) (6038. *Anerastia lotella* (Hbn.)) – 23-VIII-2001 1, 27-VI-2004 1 and 26B-VIII-2005 1.

CRAMBIDAE – Snout Moths

Crambidae, Scopariinae

935. *Scoparia biplagiata* (Wlk.) (4716. *Scoparia biplagiata* Wlk.) (Double-striped Scoparia Moth) – 23-VIII-2001 1, 25-VII-2002 2, 3-VII-2003 1 and 7-VI-2006 1.

Crambidae, Crambinae, Haimbachiini

941. *Occidentalia comptulatilis* (Hulst) (5474. *Acigona comptulatilis* (Hulst)) (Acigona Moth) - 23-VIII-2001 1, 26A-VII-2009 2, 26B-VII-2009 1 and 26C-VII-2009 1.

Crambidae, Crambinae, Crambini

948. *Chrysoteuchia topiarius* (Zell.) (5391. *Chrysoteuchia topiaria* (Zell.)) (Cranberry Girdler or Topiary Grass Veneer Moth) – 3-VII-2001 2, 12-VII-2004 6 SR, 11-VII-2005 1, 7-VI-2006 2, 21-VIII-2003 1 and 26B-VII-2009 1.
953. *Crambus perlella* (Scop.) (5343a. *Crambus perlellus innotatellus* Wlk.) (Immaculate Grass-veneer Moth) – 3-VII-2001 2, 26-VII-2001 1, 25-VIII-2002 1, 26B-VII-2009 1 and 26C-VII-2009 1.
959. *Crambus ainsliellus* Klots (5354. *Crambus ainsliellus* Klots) – 23-VIII-2002 2, 14-IX-2001 1, 17-VIII-2004 1, 31-VIII-2004 15, 11-IX-2004 6, 26B-VIII-2005 9 and 21-VIII-2006 3. These specimens are probably *ainsliellus*. *Pediasia leachellus* (Zinck.) is, however, a possibility. The two are hard to tell apart.
967. *Agriphila ruricolellus* (Zell.) (5399. *Agriphila ruricolella* (Zell.)) (Lesser Vagabond Sod Webworm Moth) – 3-VII-2001 2, 3-VIII-2001 1, 25-VII-2002 4, 26B-VII-2009 1 and 26C-VII-2009 1.
968. *Agriphila vulgivagellus* (Clem.) (5403. *Agriphila vulgivagella* (Clem.)) (Vagabond Crambus Moth) – 5-VII-2004 1 and 21-VIII-2006 1.
970. *Neodactria luteolellus* Clem. (5379. *Neodactria luteolella* Clem.) (Mottled Grass Veneer Moth) – 3-VII-2001 2, 9-VI-2004 1, 27-VI-2004 1 and 13-VII-2004 1.
Pediasia spp. – 25-VII-2002 4 and 13-VII-2004 1. These are females of either *Pediasia aridella edmontella* or *P. ericella*.
974. *Pediasia aridella edmontella* (McD.) (5410a. *Pediasia aridella edmontella* (McD.)) – 27-VI-2004 1.
976. *Pediasia trisecta* (Wlk.) (5413. *Pediasia trisecta* (Wlk.)) (Sod Webworm Moth) – 26-VII-2001 1, 7-VIII-2001 1, 23-VIII-2001 3, 17-VIII-2004 2, 31-VIII-2004 4, 26B-VIII-2005 1 and 21-VIII-2006 2.

978. *Pediasia ericellus* (B. & McD.) (5415. *Pediasia ericella* (B. & McD.)) – 25-VII-2002 1 and 11-VII-2005 1.
980. *Pediasia dorsipunctellus* (Kft.) (5417. *Pediasia dorsipunctella* (Kft.)) – 3-VII-2001 2, 7-VIII-2001 1, 25-VII-2002 1, 3-VII-2003 1, 13-VII-2004 10 SR, 17-VIII-2004 2, 26A-VII-2009 1 and 26C-VII-2009 1.
983. *Thaumatopsis pexella coloradella* Kft. (5439b. *Thaumatopsis pexella coloradella* Kft.) – 22-IX-2004 1.

Crambidae, Schoenobiinae

Donacaula sp. – 26B-VII-2009 1. The specimen is currently with Edda Martinez who is doing a monograph of the genus.

Crambidae, Acentropinae, Acentropini

987. *Acentria ephemerella* (Denis & Schiff.) (5299. *Acentria nivea* (Olivier)) (Water Veneer Moth) – 21-VIII-2006 3.

Crambidae, Acentropinae, Nymphulini

989. *Synclita oblitalis* (Wlk.) (4755. *Synclita oblitalis* (Wlk.)) (Waterlily Leafcutter Moth) – 25-VII-2002 1 and 17-VIII-2004 1.

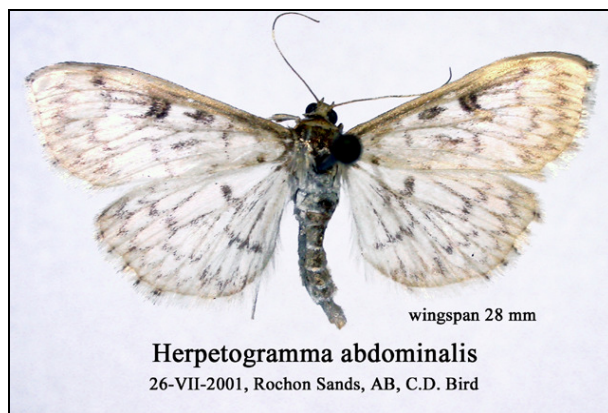
Crambidae, Acentropinae, Argyractini

991. *Petrophila kearfottalis* (B. & McD.) (4773. *Petrophila kearfottalis* (B. & McD.)) – 13-VII-2004 1, 26A-VII-2009 1, 26B-VII-2009 1 and 26C-VII-2009 1.

Crambidae, Pyraustinae, Pyraustini

1011. *Fumibotys fumalis* (Gn.) (4950. *Fumibotys fumalis* (Gn.)) (Mint Root Borer Moth) – 6-IX-2003 1.
1012. *Perispasta caeculalis* Zell. (4951. *Perispasta caeculalis* Zell.) (Titian Peale's Pyralid Moth) – 27-VI-2004 1, 14-VI-2005 1 and 7-VI-2006 1.
1013. *Anania coronata* (Hufn.) (4953. *Phlyctaenia coronata* (Hufn.)) (Crowned Phlyctaenia Moth) – 19-VI-2001 1 and 7-VI-2006 1.
1015. *Anania mysippusalis* (Wlk.) (4957. *Mutuuraia mysippusalis* (Wlk.)) – 7-VI-2006 1.
1018. *Sitochroa chortalis* (Grt.) (4987. *Sitochroa chortalis* (Grt.)) (Sitochroa Moth) – 22-V-2001 1.
1021. *Loxostege sticticalis* (L.) (5004. *Loxostege sticticalis* (L.)) (Beet Webworm Moth) – 23-VIII-2001 1, 28-V-2003 1, 6-IX-2003 1, 25-V-2004 1 (14 SR), 8-VI-2004 1 (6 SR) and 31-VIII-2004 1.
1026. *Pyrausta nicalis* (Grt.) (5032. *Pyrausta nicalis* (Grt.)) – 3-VII-2001 1.
1035. *Pyrausta fodinalis* (Led.) (5074. *Pyrausta fodinalis* (Led.)) – 26-VII-2001 1.

Crambidae, Pyraustinae, Spilomelini



- In Pohl et al. as 1038. *Herpetogramma pertextalis* (Led.) (5275. *Herpetogramma pertextalis* (Led.)) – 26-VII-2001 1. Identified as 5276 *Herpetogramma abdominalis* by Dr. Brian Scholtens but Dr. Jean-Francois Landry says that *H. pertextalis*, *H. abdominalis* and *H. thestealis* are all the same based on barcode data. As *thestealis* is the older name, that is the name that has priority. Regardless of what it is called, this species is rare in Alberta.
1039. *Choristostigma plumbosignalis* (Fern.) (5128. *Choristostigma plumbosignalis* (Fern.)) – 26-VII-2001 1 and 11-VII-2005 2.
1045. *Udea itysalis* (Wlk.) (5099. *Udea itysalis* (Wlk.)) – 7-VIII-2001 1.
1052. *Mecyna submedialis* (Grt.) (5135. *Mecyna submedialis* (Grt.)) (Orange-toned Mecyna Moth) – 3-VII-2003 1, 13-VII-2004 5, 14-VI-2005 1 and 26C-VII-2009 1.
1054. *Nomophila nearctica* Mun. (5156. *Nomophila nearctica* Mun.) (Celery Stalkworm Moth or Lucerne Moth) – 23-VIII-2001 1 and 6-IX-2003 1.

PIERIDAE – Whites and Sulphurs

Pieridae, Pierinae, Pierini

- 1116a. *Pontia occidentalis occidentalis* Reak. (4194. *Pontia occidentalis* Reak.) (Western Checkered White) – 15-V-2011 photograph.

NYMPHALIDAE - Anglewings

Nymphalidae, Nymphalinae, Nymphalini



Polygonia satyrus, Rochon Sands, 15 May 2011.

1194a. *Polygonia satyrus satyrus* (Edw.) 4422. *Polygonia satyrus* Edw. (Satyr Anglewing) – 16-IV-2010 1 and 15-V-2011 photograph.

DREPANIDAE – Lutestrings and Hooktips

Drepanidae, Thyatirinae, Habrosyninae

1231. *Habrosyne scripta* (Gosse) (6235. *Habrosyne scripta* (Gosse)) (The Scribe or Lettered Habrosyne) – 7-VI-2006 1.

Drepanidae, Thyatirinae, Macrothyatirini

1233. *Euthyatira pudens* (Gn.) (6240. *Euthyatira pudens* (Gn.)) (Dogwood Thyatirid) – 14-V-2001 1.

1234. *Ceranemota albertae* Clarke (6248. *Ceranemota albertae* Clarke) (Alberta Lutestring) – 23-VIII-2001 1, 6-IX-2003 1, 31-VIII-2004 1, 11-IX-2004 1, 22-IX-2004 1 and 13-IX-2005 1.

Drepanidae, Drepaninae, Drepanini

1238. *Eudeilinea herminiata* (Gn.) (6253. *Eudeilinea herminiata* (Gn.)) (Northern Eudeilinea) – 31-V-2005 1.

Drepanidae, Drepaninae, Oretini

1239. *Oreta rosea* (Wlk.) (6255. *Oreta rosea* (Wlk.)) (Rose Hooktip) – 13-VII-2004 1.

URANIIDAE –Uraniid Moths

Uraniidae, Epipleminae

1240. *Callizia amorata* (Pack.) (7650. *Callizia amorata* (Pack.)) (Gray Scoopwing) – 7-VI-2006 1.

GEOMETRIDAE – Inchworm or Geometrid Moths

Geometridae, Larentiinae, Cidariini

1241. *Dysstroma citrata* (L.) (7182. *Dysstroma citrata* (L.)) – 23-VIII-2001 1, 14-IX-2001 1, 17-VIII-2004 1 and 21-VIII-2006 1.

1247. *Dysstroma hersiliata* (Gn.) (7189. *Dysstroma hersiliata* (Gn.)) – 5-VII-2004 1.

1252. *Eulithis propulsata* (Wlk.) (7199. *Eulithis propulsata* (Wlk.)) (Barred Yellow or Currant Eulithis) – 26C-VII-2009 1.

1253. *Eulithis testata* (L.) (7201. *Eulithis testata* (L.)) (Chevron Moth) – 21-VIII-2006 1.

1257. *Eulithis xylinea* (Hulst) (7207. *Eulithis xylinea* (Hulst)) (The Phoenix) – 3-VII-2001 2, 26-VII-2001 2, 3-VII-2003 1, 5-VII-2004 1, 13-VII-2004 1, 11-VII-2005 1, 26A-VII-2009 1, 26B-VII-2009 1 and 26C-VII-2009 1.

1260. *Ecliptopera silaceata* (D. & S.) (7213. *Ecliptopera silaceata* (D. & S.)) (Small Phoenix) – 27-VI-2004 1.

Geometridae, Larentiinae, Hydrimenini

1267. *Hydrimena perfracta* Swett (7229. *Hydrimena perfracta* Swett) (Marbled Carpet) – 22-V-2001 1, 31-V-2005 1 and 7-VI-2006 1.
1286. *Spargania luctuata* (D. & S.) (7313. *Spargania luctuata* (D. & S.)) (White-barred Black) – 13-VII-2004 1.
1287. *Perizoma basaliata* (Wlk.) (7316. *Perizoma basaliata* (Wlk.)) (Twin-spot Wave) – 26A-VII-2009 1.
1290. *Anticlea vasiliata* (Gn.) (7329. *Anticlea vasiliata* Gn.) (Brindled Wave or Variable Carpet) – 3-V-2001 1, 28-IV-2006 1, 14-V-2006 1 and 24-IV-2007 2.

Geometridae, Larentiinae, Xanthorhoini

1306. *Xanthorhoe ferrugata* (Cl.) (7388. *Xanthorhoe ferrugata* (Cl.)) (Red Twin-spot) – 3-VII-2001 1 and 2-VI-2010 1.
1308. *Epirrhoe alternata* (Müller) (7394. *Epirrhoe alternata* (Müller)) (White-banded Toothed Carpet) – 25-VII-2002 1, 11-VII-2005 1 and 7-VI-2006 2.
1311. *Euphyia intermedia* (Gn.) (7399a. *Euphyia intermedia* (Gn.)) – 19-VI-2001 1, 3-VII-2003 1, 9-VI-2004 1, 27-VI-2004 4, 31-V-2005 3, 14-VI-2005 1 and 28-VI-2005 1.
1312. *Zenophleps alpinata* Cass. (7408. *Zenophleps alpinata* Cass.) (Wood-colored Carpet) – 21-VIII-2006 1.

Geometridae, Larentiinae, Operophterini

1324. *Operophtera bruceata* (Hulst) (7437. *Operophtera bruceata* (Hulst)) (Bruce Spanworm) – 10-X-2005 2.

Geometridae, Larentiinae, Eudelini

1325. *Eubaphe mendica* (Wlk.) (7440. *Eubaphe mendica* (Wlk.)) (The Beggar) – 3-VII-2001 2, 5-VII-2004 1 and 13-VII-2004 1.

Geometridae, Larentiinae, Eupitheciini

1326. *Horisme intestinata* (Gn.) (7445. *Horisme intestinata* (Gn.)) (Many-lined Pug) – 6-VI-2001 1, 19-VI-2001 1, 3-VII-2001 1 and 14-VI-2005 1.
1332. *Eupithecia columbiata* (Dyar) (7459. *Eupithecia columbiata* (Dyar)) (Columbia Pug) – 28-V-2003 2.
1335. *Eupithecia stellata* (Hulst) (7564. *Eupithecia stellata* (Hulst)) (Stellate Pug) – 25-VII-2002 1, 17-VIII-2004 2, 26B-VIII-2005 1 and 7-VI-2006 5.
1336. *Eupithecia subfuscata* (Haw.) (7487. *Eupithecia subfuscata* (Haw.)) (Grey Pug) – 9-VI-2004 2, 14-VI-2005 1 and 7-VI-2006 4.
1346. *Eupithecia ravocostaliata* Pack. (7605. *Eupithecia ravocostaliata* Pack.) (Great Variegated Pug) – 28-V-2003 2.
1363. *Eupithecia cimicifugata* Pears. (7524. *Eupithecia cimicifugata* Pears.) – 14-VI-2005 1.
1366. *Eupithecia gelidata* Mösch. (7538. *Eupithecia gelidata* Mösch.) – 7-VI-2006 1

Geometridae, Larentiinae, Lobophorini

1376. *Lobophora nivigerata* Wlk. (7640. *Lobophora nivigerata* Wlk.) (Two-lined Aspen Looper) – 28-V-2003 2, 3-VII-2003 1, 9-VI-2004 2, 27-VI-2004 1, 31-V-2005 1, 7-VI-2006 1 and 2-VI-2010 1.

Geometridae, Sterrhinae, Sterrhini

1379. *Idaea rotundopennata* (Pack.) (7125. *Idaea rotundopennata* (Pack.)) (Round-winged Wave) – 27-VI-2004 1 and 7-VI-2006 1.

Geometridae, Sterrhinae, Scopulini

1383. *Scopula limboundata* (Haw.) (7159. *Scopula limboundata* (Haw.)) (Large Lace-border Moth) – 25-VII-2002 1 and 11-VII-2005 3, 26A-VII-2009 1 and 26B-VII-2009 1.
 1386. *Scopula junctaria* (Wlk.) (7164. *Scopula junctaria* (Wlk.)) (United Wave) – 3-VII-2001 4, 3-VII-2003 1, 27-VI-2004 1, 5-VII-2004 1, 28-VI-2005 1 and 26A-VII-2009 1.
 1388. *Scopula frigidaria* Mösch. (7166. *Scopula frigidaria* Mösch.) (Frigid Wave) – 28-VI-2005 1.
 1390. *Scopula inductata* Gn. (7169. *Scopula inductata* Gn.) (Soft-lined Wave) – 21-VIII-2006 1.

Geometridae, Geometrinae, Nemoriini

1394. *Nemoria unitaria* (Pack.) (7018. *Nemoria unitaria* (Pack.)) (Single-lined Emerald) – 3-VII-2003 1 and 11-VII-2005 2.
 1397. *Nemoria mimosaria* (Gn.) (7048. *Nemoria mimosaria* (Gn.)) – 31-V-2005 1.

Geometridae, Geometrinae, Synchlorigini

1399. *Synchlora aerata* (F.) (7058. *Synchlora aerata* (F.)) (Wavy-lined Emerald) – 7-VI-2006 1 and 26A-VII-2009 2.

Geometridae, Ennomiinae, Cassymini

1405. *Nematocampa resistaria* (H.-S.) (7009. *Nematocampa resistaria* (H.-S.)) (Horned Spanworm Moth) – 26A-VII-2009 1 and 26B-VII-2009 1.

Geometridae, Ennomiinae, Cassymini

1406. *Protitame virginalis* (Hulst) (6270. *Protitame virginalis* (Hulst)) (Virgin Moth) – 3-VII-2001 1, 9-VI-2004 1, 27-VI-2004 1, 31-V-2005 2 and 28-VI-2005 1.

Geometridae, Ennomiinae, Macariini

1412. *Speranza exauspicata* (Wlk.) (6292. *Itame exauspicata* (Wlk.)) (Speckled Granite) – 11-VII-2005 2.
 1416. *Speranza occiduaria* (Pack.) (6279. *Itame occiduaria* (Pack.)) (Western Sulphur) – 5-VII-2004 1, 28-VI-2005 1 and 11-VII-2005 1.
 1421. *Speranza loricaria* (Evers.) (6290. *Itame loricaria* (Evers.)) (False Bruce Spanworm Moth) – 3-VII-2001 2, 27-VI-2004 2, 5-VII-2004 1, 13-VII-2004 1 and 28-VI-2005 1.
 1433. *Digrammia denticulata* (Grt.) (6373. *Semiothisa denticulata* (Grt.)) (Striped Granite) – 25-V-2004 1.
 1436. *Digrammia ripperatia* (Dup.) (6394. *Semiothisa hebetata* (Hulst)) – 14-VI-2005 1.

1438. *Digrammia mellistrigata* (Grt.) (6397. *Semiothisa mellistrigata* (Grt.)) – 3-VII-2003 1, 9-VI-2004 1 and 17-VIII-2004 1.

1440. *Digrammia neptaria* (Gn.) (6396. *Semiothisa neptaria* (Gn.)) – 9-VI-2004 1.

Geometridae, Ennomiinae, Boarmiini

1445. *Hesperumia sulphuraria* Pack. (6431. *Hesperumia sulphuraria* Pack.) (Sulphur Moth) – 26-VII-2001 1 and 26B-VII-2009 1.

1453. *Iridopsis larvaria* (Gn.) (6588. *Iridopsis larvaria* (Gn.)) (Red-tinged Carpet or Bent-line Gray) – 14-VI-2005 1.

1455. *Ectropis crepuscularia* (D. & S.) (6597. *Ectropis crepuscularia* (D. & S.)) (The Small Engrailed) – 3-V-2001 1, 1-V-2004 1, 2-V-2004 1 and 14-V-2006 1.

1456. *Protoboarmia porcelaria* (Gn.) (6598. *Protoboarmia porcelaria* (Gn.)) (Speckled Carpet) – 27-VI-2004 1 and 14-VI-2005 1.

Geometridae, Ennomiinae, Bistonini

1460. *Biston betularia* (L.) (6640. *Biston betularia* (L.)) (Salt and Pepper Moth) – 6-VI-2001 1, 19-VI-2001 1, 3-VII-2001 1, 25-VII-2002 1, 5-VII-2004 1 and 7-VI-2006 1.

1461. *Lycia ursaria* (Wlk.) (6651. *Lycia ursaria* (Wlk.)) (Stout Spanworm Moth) – 3-V-2001 1, 23-IV-2003 1, 2-V-2004 1, 7-IV-2006 2 and 24-IV-2007 1.

1463. *Hypagyrtis unipunctaria* (Haw.) (6654. *Hypagyrtis unipunctaria* (Haw.)) (One-spotted Variant) – 3-VII-2001 1 and 11-VII-2005 1.

1467. *Erranis tiliaria* (Harr.) (6665. *Erranis tiliaria* (Harr.)) (Linden Looper Moth) – 25-IX-2001 1, 22-IX-2004 1 and 13-IX-2005 3.

Geometridae, Ennomiinae, Baptini

1468. *Lomographa semiclarata* (Wlk.) (6666. *Lomographa semiclarata* (Wlk.)) – 22-V-2001 4 and 28-V-2003 1.

Geometridae, Ennomiinae, Caberini

1472. *Cabera erythemaria* Gn. (6677. *Cabera erythemaria* Gn.) (Yellow-dusted Cream Moth) – 14-VI-2005 1 and 28-VI-2005.

1473. *Cabera variolaria* Gn. (6678. *Cabera variolaria* Gn.) (The Vestal or the Pink-striped Spanworm Moth) – 6-VI-2001 1, 3-VII-2001 1, 26-VII-2001 1, 25-VII-2002 1, 28-VI-2005 1 and 26B-VIII-2005 1.

Geometridae, Ennomiinae, Angeronini

1482. *Euchlaena obtusaria* (Hbn.) (6726. *Euchlaena obtusaria* (Hbn.)) (Obtuse Euchlaena) – 3-VII-2001 2, 3-VII-2003 1, 27-VI-2004 1, 5-VII-2004 2 and 28-VI-2005 1.

1483. *Euchlaena johnsonaria* (Fitch) (6729. *Euchlaena johnsonaria* (Fitch)) (Johnson's Euchlaena) – 13-VII-2004 1 and 11-VII-2005 1.

1485. *Euchlaena marginaria* (Fitch) (6734. *Euchlaena marginaria* (Minot)) (Alberta Thorn) – 22-V-2001 3, 19-V-2004 1, 28-V-2004 1, 9-VI-2004 1 and 2-VI-2010 1.

1486. *Euchlaena tigrinaria* (Gn.) (6737. *Euchlaena tigrinaria* (Gn.)) (Variable Thorn or Mottled Euchlaena) – 3-VII-2001 2, 3-VII-2003 1, 27-VI-2004 1 and 28-VI-2005 1.

1488. *Xanthotype sospeta* (Drury) (6743. *Xanthotype sospeta* (Drury)) (Crocus Geometer) – 3-VII-2001 2, 3-VII-2003 1, 27-VI-2004 1, 5-VII-2004 1, 13-VII-2004 1 and 11-VII-2005 1.

Geometridae, Ennomiinae, Azelini

1490. *Pero morrisonaria* (Hy. Edw.) (6755. *Pero morrisonaria* (Hy. Edw.)) (Lesser Umber or Morrison's Pero) – 6-VI-2001 3, 9-VI-2004 1, 14-VI-2005 1 and 7-VI-2006 1.

Geometridae, Ennomiinae, Ennomini

1495. *Ennomos magnaria* Gn. (6797. *Ennomos magnaria* Gn.) (Maple Spanworm Moth) – 10-IX-2001 1, 14-IX-2001 1, 6-IX-2003 1, 11-IX-2004 1 (3 SR), 22-IX-2004 1 (26 SR) and 31-V-2005 1.

Geometridae, Ennomiinae, Anagogini

1501. *Selenia alciphearia* Wlk. (6817. *Selenia alciphearia* Wlk.) (Brown-tipped Thorn or Northern Selenia) – 3-V-2001 2 and 19-V-2004 1.

1502. *Selenia kentaria* (G. & R.) (6818. *Selenia kentaria* (G. & R.)) (Kent's Geometer) – 28-V-2003 1, 8-V-2004 1, 25-V-2004 1 and 31-V-2005 1.

1503. *Metanema inatomaria* Gn. (6819. *Metanema inatomaria* Gn.) (Pale Metanema) – 3-VII-2001 1, 27-VI-2004 1, 31-V-2005 1 and 7-VI-2006 1.

1504. *Metanema determinata* Wlk. (6820. *Metanema determinata* Wlk.) (Dark-banded Thorn) – 3-VII-2001 1, 13-VII-2004 1, 31-V-2005 1, 14-VI-2005 1 and 11-VII-2005 1.

1506. *Metarranthis duaria* (Gn.) (6822. *Metarranthis duaria* (Gn.)) (Canadian Thorn or Ruddy Metarranthis) – 22-V-2001 4, 6-VI-2001 1, 28-V-2003 1, 19-V-2004 1, 25-V-2004 2, 31-V-2005 1, 7-VI-2006 1 and 2-VI-2010 1.

1507. *Probole alienaria* (H.-S.) (6837. *Probole alienaria* (H.-S.)) – 22-V-2001 4, 28-V-2003 1, 11-VI-2003 1, 19-V-2004 1, 25-V-2004 2, 2-VI-2004 1, 19-VI-2004 2, 31-V-2005 1, 14-VI-2005 1 and 2-VI-2010 1.

1508. *Probole amicaria* (H.-S.) (6838. *Probole amicaria* (H.-S.)) (Friendly Probole) – 31-V-2005 1.

1509. *Plagodis pulveraria* (L.) (6836. *Anagoga occiduaria* (Wlk.)) (American Barred Umber) – 11-V-2001 1, 22-V-2001 2 and 28-V-2003 1.

1510. *Plagodis phlogosaria* (Gn.) (6842. *Plagodis phlogosaria* (Gn.)) (The Scorched Wing or Straight-lined Plagodis) – 12-V-2001 1, 28-V-2003 1, 19-V-2004 1, 9-VI-2004 1, 31-V-2005 1, 7-VI-2006 1 and 2-VI-2010 1.

Geometridae, Ennomiinae, Ourapterygini

1522. *Sicya macularia* (Harr.) (6912. *Sicya macularia* (Harr.)) (Pink-bordered Yellow or Two-pronged Looper) – 26-VII-2001 2 and 26B-VII-2009 1.

1524. *Synaxis jubararia* (Hulst) (6954. *Synaxis jubararia* (Hulst)) (October Thorn) – 14-IX-2001 1, 6-IX-2003 1, 11-IX-2004 1 and 13-IX-2005 1.

1528. *Tetracis crocallata* Gn. (6963. *Tetracis crocallata* Gn.) (Yellow Slant-line) – 19-VI-2001 1, 9-VI-2004 2, 31-V-2005 1, 14-VI-2005 1, 7-VI-2006 1 and 2-VI-2010 1.

1531. *Prochoerodes lineola* (Göze) (6982. *Prochoerodes transversata* (Drury)) (Large Maple Spanworm Moth) – 7-VIII-2001 2, 23-VIII-2001 2, 17-VIII-2004 2, 31-VIII-2004 2 and 11-IX-2004 1.

LASIOCAMPIDAE – Tent Caterpillar or Lappet Moths

Lasiocampidae, Lasiocampinae, Gastropachini

1536. *Phyllodesma americana* (Harr.) (7687. *Phyllodesma americana* (Harr.)) (Lappet Moth) – 3-V-2001 2, 11-V-2001 1, 14-V-2001 1, 22-V-2001 1, 26-V-2002 1, 1-V-2004 2 SR, 2-V-2004 1 (9 SR), 8-V-2004 1 (8 SR), 19-V-2004 6 SR, 25-V-2004 2 SR, 7-VI-2006 1, 25-V-2010 1 and 2-VI-2010 1.

Lasiocampidae, Lasiocampinae, Lasiocampini

1537. *Malacosoma disstria* Hbn. (7698. *Malacosoma disstria* Hbn.) (Forest Tent Caterpillar) – 3-VII-2001 2, 7-VIII-2001 1, 25-VII-2002 1, 13-VII-2004 2 and 11-VII-2005 1. This is the forest tent caterpillar which periodically occurs in outbreak numbers (Ives 1973).

1538. *Malacosoma californica* (Pack.) (7702. *Malacosoma californicum* (Pack.)) (Western Tent Caterpillar) – 11-VII-2005 1.

SATURNIDAE – Large Silkworm Moths

Saturniidae, Saturniinae, Saturniini

1542. *Antheraea polyphemus* (Cram.) (7757. *Antheraea polyphemus* (Cram.)) (Polyphemus Moth) – 22-V-2001 2, 8-VI-2004 6 SR, 5-VII-2004 1 SR, 31-V-2005 1 and 2-VI-2010 1.

SPHINGIDAE – Sphinx Moths

Sphingidae, Sphinginae, Sphingini

1548. *Sphinx vashti* Stkr. (7803. *Sphinx vashti* Stkr.) (Vashti or Snowberry Sphinx) – 22-V-2001 3, 19-V-2004 2, 25-V-2004 3, 2-VI-2004 1, 27-VI-2004 1 SR, 25-V-2010 1 and 2-VI-2010 2.

Sphingidae, Sphinginae, Smerinthini

1553. *Smerinthus jamaicensis* (Drury) (7821. *Smerinthus jamaicensis* (Drury)) (Twin-spot Sphinx) – 22-V-2001 2, 6-VI-2001 1, 19-V-2004 1, 9-VI-2004 1 SR, 27-VI-2004 1 SR and 5-VII-2004 2 SR.

1554. *Smerinthus cerisyi* Kby. (7822. *Smerinthus cerisyi* Kby.) (One-eyed Sphinx) – 14-V-2001 1, 22-V-2001 2, 6-VI-2001 1, 1-IV-2002 1 SR, 19-V-2004 1 (2 SR), 25-V-2004 1 (7 SR), 2-VI-2004 2 SR, 8-VI-2004 4 SR, 27-VI-2004 7 SR, 5-VII-2004 3 SR, 13-VII-2004 1 SR, 25-V-2010 1 and 2-VI-2010 1.

1556. *Paonias excaecatus* (J.E. Sm.) (7824. *Paonias excaecatus* (J. E. Smith)) (Blinded Sphinx) – 6-VI-2001 1, 19-VI-2001 1, 3-VII-2003 1, 9-VI-2004 1, 27-VI-2004 1 SR, 13-VII-2004 3 SR, 14-VI-2005 1 and 7-VI-2006 1.

1557. *Paonias myops* (J.E. Sm.) (7825. *Paonias myops* (J. E. Smith)) (Small-eyed Sphinx) – 22-V-2001 2, 6-VI-2001 1, 3-VII-2001 2, 9-VI-2004 1, 27-VI-2004 7 SR, 31-V-2005 1, 14-VI-2005 1 and 7-VI-2006 1.

1558. *Pachysphinx modesta* (Harr.) (7828. *Pachysphinx modesta* (Harr.)) (Large Poplar Sphinx) – 6-VI-2001 2, 19-VI-2001 2, 25-V-2004 1 (2 SR), 8-VI-2004 8 SR, 13-VII-2004 1 SR and 7-VI-2006 1.

NOTODONTIDAE – Prominent Moths**Notodontidae, Pygaerinae**

1572. *Clostera albosigma* Fitch (7895. *Clostera albosigma* Fitch) (Sigmoid Prominent or Rusty-lined Leaf-tier Moth) – 3-V-2001 3, 11-V-2001 1, 22-V-2001 3, 6-VI-2001 1, 26-VII-2001 1, 7-VIII-2001 2, 26-V-2002 1, 28-V-2003 1, 2-V-2004 1 (2 SR) and 9-VI-2004 1.
1573. *Clostera strigosa* (Grt.) (7898. *Clostera strigosa* (Grt.)) (Striped Chocolate-tip) – 28-V-2003 1, 25-V-2004 1 and 2-VI-2010 1.
1575. *Clostera apicalis* (Wlk.) (7901. *Clostera apicalis* (Wlk.)) (Common Chocolate-tip or Red-marked Tentmaker Moth) – 22-V-2001 1, 25-V-2004 1 and 25-V-2010 1.

Notodontidae, Notodontinae, Notodontini

1576. *Pheosia rimosa* Pack. (7922. *Pheosia rimosa* Pack.) (Black-rimmed Prominent or False Hornworm Moth) – 19-VI-2001 1, 28-V-2003 1, 9-VI-2004 1 (7 SR), 13-VII-2004 1 SR, 14-VI-2005 1, 28-VI-2005 1, 11-VII-2005 1, 7-VI-2006 1 and 26B-VII-2009 1.
1577. *Odontosia elegans* (Stkr.) (7924. *Odontosia elegans* (Stkr.)) (Elegant Prominent) – 6-VI-2001 1, 19-VI-2001 1, 9-VI-2004 1, 13-VII-2004 1, 31-V-2005 1, 14-VI-2005 1, 7-VI-2006 1 and 2-VI-2010 1.
1578. *Notodonta scitipennis* Wlk. (7926. *Notodonta scitipennis* Wlk.) (Base-streaked Prominent) – 3-VII-2001 1, 13-VII-2004 1 and 31-V-2005 1.
1579. *Notodonta torva* (Hbn.) (7928. *Notodonta simplaria* Graef. (Simple Prominent) – 22-V-2001 2, 28-V-2003 1, 8-V-2004 1, 25-V-2004 1, 31-V-2005 1 and 7-VI-2006 1.

Notodontidae, Notodontinae, Dicranurini

1580. *Gluphisia septentrionis* Wlk. (7931. *Gluphisia septentrionis* Wlk.) (Small Pebble) – 19-VI-2001 1, 9-VI-2004 1, 27-VI-2004 1 (5 SR), 14-VI-2005 1, 28-VI-2005 1 and 7-VI-2006 1.
1582. *Gluphisia lintneri* (Grt.) (7934. *Gluphisia lintneri* (Grt.)) (Lintner's Pebble) – 23-IV-2003 1, 13-V-2003 2, 1-V-2004 1, 12-IV-2006 1 and 24-IV-2007 1.
1585. *Furcula occidentalis* (Lint.) (7939. *Furcula occidentalis* (Lint.)) (Willow Kitten) – 2-V-2004 1.
1586. *Furcula scolopendrina* (Bdv.) (7940. *Furcula scolopendrina* (Bdv.)) (Poplar Kitten) – 7-VI-2006 1.
1587. *Furcula modesta* (Huds.) (7941. *Furcula modesta* (Hudson)) (Modest Kitten) – 3-VII-2001 1, 7-VIII-2001 1, 26-V-2002 1 and 27-VI-2004 1.

Notodontidae, Phalerinae

1589. *Nadata gibbosa* (J.E. Sm.) (7915. *Nadata gibbosa* (J. E. Smith)) (White-dotted Prominent or Yellow-lined Caterpillar Moth) – 6-VI-2001 2, 19-VI-2001 3, 3-VII-2001 1, 3-VII-2003 1, 8-VI-2004 1 (7 SR), 27-VI-2004 1 (12 SR), 31-V-2005 1, 14-VI-2005 1, 28-VI-2005 1 and 7-VI-2006 1.

Notodontidae, Heterocampinae

1591. *Schizura unicornis* (J.E. Sm.) (8007. *Schizura unicornis* (J. E. Smith)) (Variegated Prominent or Unicorn Caterpillar Moth) – 3-VII-2001 3, 25-V-2004 1, 19-VI-2004 2, 13-VII-2004 1, 31-V-2005 2, 14-VI-2005 1 and 7-VI-2006 1.
1592. *Schizura leptinoides* (Grt.) (8011. *Schizura leptinoides* (Grt.)) (Black-blotched Schizura) – 13-VII-2004 1.
1593. *Oligocentria semirufescens* (Wlk.) (8012. *Oligocentria semirufescens* (Wlk.)) (Red-washed Prominent) – 28-VI-2005 1.

EREBIDAE – Quadrifine Noctuoids

Erebidae, Lymantriinae, Orgyiini

1600. *Dasychira vagans* (B. & McD.) (8294. *Dasychira vagans* (B. & McD.)) (Variable Tussock Moth) – 3-VII-2001 4, 26-VII-2001 1, 3-VII-2003 1, 14-VI-2005 1 and 28-VI-2005 1.

Erebidae, Arctiinae, Lithosiini

1608. *Clemensia albata* Pack. (8098. *Clemensia albata* Pack.) (Pearly-winged Lichen Moth) – 13-VII-2004 1.
1610. *Crambidia casta* (Pack.) (8051. *Crambidia casta* (Pack.)) (Pearly-winged Lichen Moth) – 23-VIII-2001 1, 31-VIII-2004 1 and 21-VIII-2006 1.

Erebidae, Arctiinae, Arctiini

1613. *Virbia ferruginosa* (Wlk.) (8123. *Holomelina ferruginosa* (Wlk.)) (Rusty Holomelina or Spotted Salmon Tiger Moth) – 3-VII-2001 2, 16-VII-2001 1, 25-VII-2002 1, 3-VII-2003 1, 13-VII-2004 1, 11-VII-2005 1, 26A-VII-2009 1, 26B-VII-2009 1 and 26C-VII-2009 1.
1619. *Grammia virgo* (L.) (8197. *Grammia virgo* (L.)) (Virgin Tiger Moth) – 3-VII-2001 1, 3-VII-2003 1, 5-VII-2004 1, 13-VII-2004 1 and 11-VII-2005 1.
1620. *Grammia parthenice* (W. Kby.) (8196. *Grammia parthenice* (W. Kirby)) (Parthenice Tiger Moth) – 7-VIII-2001 1, 25-VII-2002 1, 17-VIII-2004 1, 26A-VII-2009 1, 26B-VII-2009 1 and 26C-VII-2009 1.
1621. *Grammia virguncula* (W. Kby.) (8175. *Grammia virguncula* (W. Kirby)) (Little Virgin Moth) – 27-VI-2004 1 and 13-VII-2004 1.
1631. *Platarctia parthenos* (Harr.) (8162. *Platarctia parthenos* (Harr.)) (St. Lawrence Tiger Moth) – 8-VI-2004 1 (3 SR), 27-VI-2004 9 SR and 13-VII-2004 3 SR.
1635. *Phragmatobia assimilans* Wlk. (8158. *Phragmatobia assimilans* Wlk.) (Large Ruby Tiger Moth) – 3-V-2001 1, 11-V-2001 2, 14-V-2001 1, 22-V-2001 2, 6-VI-2001 1, 28-V-2003 1, 8-V-2004 1, 19-V-2004 1, 25-V-2004 1 (22 SR), 2-VI-2004 1, 7-VI-2006 1, 25-V-2010 1 and 2-VI-2010 1.
1639. *Spilosoma congrua* (Wlk.) (8134. *Spilosoma congrua* (Wlk.)) – 6-VI-2001 2, 19-VI-2001 1, 11-VI-2003 1, 9-VI-2004 3, 27-VI-2004 1, 31-V-2005 2, 14-VI-2005 4, 28-VI-2005 1, 7-VI-2006 2 and 2-VI-2010 1.
1640. *Spilosoma dubia* (Wlk.) (8136. *Spilosoma dubia* (Wlk.)) (Dubious Tiger Moth) – 26B-VII-2009 1.
1641. *Spilosoma virginica* (F.) (8137. *Spilosoma virginica* (F.)) (Virginian Tiger Moth or Red-marked Tentmaker) – 28-V-2003 1 and 25-V-2004 1.

1647. *Haploa lecontei* (Guér.-Méneville) (8111. *Haploa lecontei* (Guér.-Méneville)) (Leconte's Haploa) – 14-VI-2005 1 and 21-V-2005 1.
1649. *Lophocampa maculata* Harr. (8214. *Lophocampa maculata* Harr.) (Spotted Tiger Moth) – 31-V-2005 1, 14-VI-2005 1, 28-VI-2005 1 and 7-VI-2006 1.
1653. *Cisseps fulvicollis* (Hbn.) (8267. *Cisseps fulvicollis* (Hbn.)) (Yellow-collared Scape Moth) – 25-VII-2002 1 and 26B-VII-2009 1.

Erebidae, Herminiinae

1654. *Idia americalis* (Gn.) (8322. *Idia americalis* (Gn.)) (American Snout Moth) – 3-VII-2001 1, 26-VII-2001 2, 14-IX-2001 1, 25-VII-2002 1, 3-VII-2003 1, 9-VI-2004 1, 27-VI-2004 2, 13-VII-2004 2, 31-VIII-2004 1, 14-VI-2005 2, 11-VII-2005 1, 7-VI-2006 1, 26A-VII-2009 1, 26B-VII-2009 1 and 26C-VII-2009 1.
1655. *Idia aemula* Hbn. (8323. *Idia aemula* Hbn.) (Powdered Snout) – 13-VII-2004 2 and 11-VII-2005 1.
1660. *Phalaenophana pyramusalis* (Wlk.) (8338. *Phalaenophana pyramusalis* (Wlk.)) (Dark-banded Owlet) – 2-VI-2010 1.
1662. *Zanclognatha lotalba* (Sm.) (8354. *Zanclognatha lotalba* (Sm.)) (Canadian Zanclognatha) – 3-VII-2001 1, 26-VII-2001 2, 11-VII-2005 2 and 26B-VII-2009 1.
1663. *Chytolita petrealis* Grt. (8356. *Chytolita petrealis* Grt.) (Lesser Luteous Snout) – 3-VII-2003 1, 9-VI-2004 4, 27-VI-2004 1, 5-VII-2004 1, 31-V-2005 1, 7-VI-2006 1, 226A-VII-2009 1 and 26C-VII-2009 1.
1664. *Hormisa bivittata* (Grt.) (8359. *Macrochilo bivittata* (Grt.)) – 25-VII-2002 2 and 13-VII-2004 1.
1666. *Phalaenostola metonalis* (Wlk.) (8362. *Phalaenostola metonalis* (Wlk.)) (Pale Phalaenostola or Tufted Snout) – 26A-VII-2009 1 and 26C-VII-2009 1.
1669. *Palthis angulalis* (Hbn.) (8397. *Palthis angulalis* (Hbn.)) (Dark-spotted Palthis) – 6-VI-2001 1, 9-VI-2004 2, 27-VI-2004 1, 31-V-2005 1, 14-VI-2005 1 and 7-VI-2006 1.

Erebidae, Rivulinae

1671. *Rivula propinqualis* Gn. (8404. *Rivula propinqualis* Gn.) (Spotted Grass Moth) – 3-VII-2001 1, 26A-VII-2009 1 and 26C-VII-2009 1.

Erebidae, Hypeninae

1676. *Hypena edictalis* (Wlk.) (8452. *Bomolocha edictalis* (Wlk.)) (Large Bomolocha) – 3-VII-2001 5, 11-VII-2005 2, 26A-VII-2009 1, 26B-VII-2009 1 and 26C-VII-2009 1.
1677. *Hypena humuli* Harr. (8461. *Hypena humuli* Harr.) (Hop-vine Snout-moth) – 23-VII-2001 1, 14-IX-2001 1, 1-V-2004 1, 9-VI-2004 1, 11-IX-2004 1, 22-IX-2004 3 and 13-IX-2005 2.

Erebidae, Hypenodinae

1681. *Hypenodes fractilinea* (Sm.) (8421. *Hypenodes fractilinea* (Sm.)) (Broken-line Hypenodes) – 13-VII-2004 1 and 11-VII-2005 3.

Erebidae, Boletobiinae

1683. *Mycterophora inexplicata* (Wlk.) (8413. *Mycterophora inexplicata* (Wlk.)) (Pale-edged Snout Moth) – 26 A-VII-2009 1.

Erebidae, Erebininae, Ophiuini

1703. *Zale minerea* (Gn.) (8697. *Zale minerea* (Gn.)) (Colorful Zale) – 22-V-2001 3, 28-V-2003 1, 19-V-2004 4 (8 SR), 25-V-2004 4 (5 SR), 9-VI-2004 1, 31-V-2005 1 and 2-VI-2010 1.

Erebidae, Erebininae, Catocalini

1705. *Catocala relictata* Wlk. (8803. *Catocala relictata* Wlk.) (White Underwing) – 23-VIII-2001 3, 6-IX-2003 1, 17-VIII-2004 3 SR, 11-IX-2004 1 (3 SR), 22-IX-2004 1 SR, 17-VIII-2004 1 and 11-IX-2004 1.

1706. *Catocala unijuga* Wlk. (8805. *Catocala unijuga* Wlk.) (Once-married Underwing) – 7-VIII-2001 1, 25-VII-2002 1, 6-IX-2003 2 and 31-VIII-2004 1.

1713. *Catocala semirelictata* Grt. (8821. *Catocala semirelictata* Grt.) (Semirelict Underwing) – 23-VIII-2001 1 and 6-IX-2003 1.

1719. *Catocala blandula* Hulst (8867. *Catocala blandula* Hulst) (Charming Underwing) – 26-VII-2001 4 and 17-VIII-2004 2 (3 SR).

NOCTUIDAE – Owlets and Noctuid Moths

Nolidae, Nolinae

1721. *Nola cilicoides* (Grt.) (8990. *Nola cilicoides* (Grt.)) (Blurry-patched Nola) – 26-VII-2001 1, 7-VIII-2001 3, 23-VIII-2001 1, 25-VII-2002 5, 26B-VII-2009 1 and 26C-VII-2009 1.

Noctuidae, Plusiinae, Abrastolini

1725. *Abrastola urentis* Gn. (8881. *Abrastola urentis* Gn.) (Variegated Brindle) – 27-VI-2004 1, 5-VII-2004 1, 14-VII-2004 1, 31-V-2005 1, 11-VII-2005 3 and 7-VI-2006 1.

Noctuidae, Plusiinae, Plusiini

1727. *Diachrysia aeroides* (Grt.) (8896. *Diachrysia aeroides* (Grt.)) (Dark-spotted Looper Moth) – 11-VII-2005 1 and 26B-VII-2009 1.

1735. *Autographa rubidus* Ottol. (8909. *Autographa rubida* Ottol.) (Rubida Looper Moth) – 7-VI-2006 1.

1740. *Autographa californica* (Spey.) (8914. *Autographa californica* (Speyer)) (Alfalfa Looper Moth) – 23-VIII-2001 4, 25-IX-2001 1, 6-IX-2003 1, 11-IX-2004 1, 22-IX-2004 1 and 10-X-2005 1.

1744. *Autographa ampla* (Wlk.) (8923. *Autographa ampla* (Wlk.)) (Broken-banded Y or Large Looper Moth) – 11-VII-2005 1.

1745. *Anagrapha falcifera* (Kby.) (8924. *Anagrapha falcifera* (Kby.)) (Celery Looper Moth) – 25-IX-2001 2 and 28-V-2003 1.

1763. *Plusia putnami* Grt. (8950. *Plusia putnami* Grt.) (Putnam's Looper Moth) – 7-VIII-2001 1.

Noctuidae, Eustrotiinae

1767. *Protodeltote albidula* Gn. (9048. *Lithacodia albidula* (Gn.)) (Common Midget) – 6-VI-2001 1, 3-VII-2003 1, 26A-VII-2009 1 and 26C-VII-2009 1.

Noctuidae, Dilobinae

1778. *Raphia frater* Grt. (9193. *Raphia frater* Grt.) (The Brother) – 22-V-2001 6, 6-VI-2001 1, 19-VI-2001 1, 3-VII-2001 1, 28-V-2003 1, 3-VII-2003 1, 25-V-2004 1 (4 SR), 9-VI-2004 1, 27-VI-2004 1 (5 SR), 18-VII-2004 1, 31-V-2005 1, 14-VI-2005 1, 11-VII-2005 1, 7-VI-2006 1 and 2-VI-2010 1.

Noctuidae, Acronictinae

1783. *Acronicta vulpina* (Grt.) (9206. *Acronicta vulpina* (Grt.)) (Poplar or Vulpina Dagger Moth) – 28-V-2003 2, 3-VII-2003 1 and 14-VI-2005 1.
1787. *Acronicta grisea* (Wlk.) (9212. *Acronicta grisea* (Wlk.)) (Gray Dagger Moth) – 27-VI-2004 2, 31-V-2005 1, 28-VI-2005 1 and 7-VI-2006 1.
1790. *Acronicta superans* Gn. (9226. *Acronicta superans* Gn.) (The Chieftain Dagger Moth) – 22-V-2001 1, 3-VIII-2001 1, 27-VI-2004 1 and 11-VII-2005 1.
1791. *Acronicta hasta* Gn. (9228. *Acronicta furcifera* Gn.) (Speared Dagger Moth) – 22-V-2001 4, 19-V-2004 2, 11-V-2005 1 and 7-VI-2006 1.
1793. *Acronicta fragilis* (Gn.) (9241. *Acronicta fragilis* (Gn.)) (Fragile Dagger Moth) – 6-VI-2001 1, 28-V-2003 1, 31-V-2005 1, 14-VI-2005 2 and 7-VI-2006 1.
1794. *Acronicta impleta* Wlk. (9257. *Acronicta impleta* Wlk.) (Yellow-haired Dagger Moth) – 6-VI-2001 1 and 25-V-2004 1.
1796. *Acronicta impressa* Wlk. (9261. *Acronicta impressa* Wlk.) (Willow Dagger Moth) – 11-VII-2005 1 and 28-IV-2006 1.
1801. *Simyra henrici* (Grt.) (9280. *Simyra insularis* (H.-S.)) (Henry's Marsh Moth) – 22-V-2002 1.

Noctuidae, Cuculliinae

1808. *Cucullia intermedia* (Spey.) (10194. *Cucullia intermedia* Speyer) – 19-V-2004 2, 25-V-2004 1 and 31-V-2005 1 and 7-VI-2006 1.

Noctuidae, Oncocnemidinae

1828. *Pleromelloida conserta* (Grt.) (10028. *Pleromelloida obliquata* (Sm.)) (Oblique Rover) – 23-IV-2003 1 and 2-V-2004 1 and 28-IV-2006 1.
1838. *Sympistis dinalda* (Sm.) (10065. *Homohadena infixata* (Wlk.)) (Broad-lined Sallow) – 5-VII-2001 1, 26-VII-2001 2, 25-VII-2002 1 and 11-VII-2005 1.
1843. *Sympistis poliochroa* Hamp. (10140. *Oncocnemis poliochroa* Hamp.) (Gray Beauty) – 23-VIII-2001 1 and 26B-VIII-2005 1.
1845. *Sympistis cibalis* Grt. (10124. *Oncocnemis cibalis* Grt.) (Delicate Beauty) – 22-IX-2004 1.
1853. *Sympistis chionanthi* (J.E. Sm.) (10067. *Adita chionanthi* (J.E. Smith)) (Fringed Tree Sallow) – 31-VIII-2004 1.

Noctuidae, Noctuinae, Pseuostrotiini

1897. *Pseudostrotia carneola* (Gn.) (9053. *Pseudostrotia carneola* (Gn.)) (Pink-barred Lithacodia) – 9-VI-2004 2 and 7-VI-2006 1.

Noctuidae, Noctuinae, Elaphriini

1900. *Elaphria alapallida* (Pogue & Sullivan) (9681.1. *Elaphria festivoides* (Gn.) (Festive Midget) – 28-V-2003 2, 9-VI-2004 4, 31-V-2005 3 and 7-VI-2006 1.

Noctuidae, Noctuinae, Caradrini

1905. *Caradrina montana* (Bremer) (9656. *Platyperigea montana* (Bremer)) (Civil Rustic) – 26-VII-2001 2, 23-VIII-2001 1, 6-IX-2003 1, 13-VII-2004 1 SR, 31-VIII-2003 2 SR, 11-IX-2004 3 SR and 22-XI-2004 2 SR.
1906. *Proxenus miranda* (Grt.) (9647. *Proxenus miranda* (Grt.)) (Glistening Rustic) – 9-VI-2004 1, 27-VI-2004 1 and 31-V-2005 1.
1907. *Proxenus mendosa* McD. (9649. *Proxenus mendosa* McD.) – 22-V-2001 1, 7-VIII-2001 1 and 28-V-2003 1.

Noctuidae, Noctuinae, Apameini

1915. *Apamea indocilis* (Wlk.) (9362. *Apamea indocilis* (Wlk.) (Ignorant Apamea or Broken-banded Quaker) – 23-VIII-2001 2.
1918. *Apamea sordens* (Hufn.) (9364. *Apamea finitima* Gn.) (Brome-grass Cutworm or Pale-banded Quaker) – 22-V-2001 4, 6-VI-2001 4, 19-VI-2001 2, 9-VI-2004 4, 31-V-2005 3 and 7-VI-2006 1.
1919. *Apamea inordinata* (Morr.) (9353. *Apamea inordinata* (Morr.)) (Montana Quaker) – 9-VI-2004 1.
1924. *Apamea commoda* (Wlk.) (9359. *Apamea commoda* (Wlk.)) (Gray Quaker) – 19-VI-2001 1, 3-VII-2001 4, 3-VII-2003 2, 27-VI-2004 2, 5-VII-2004 2, 14-VI-2005 1, 28-VI-2005 4 and 11-VII-2005 2.
1927. *Apamea amputatrix* (Fitch) (9348. *Apamea amputatrix* (Fitch)) (Northern Quaker, Dusky Sallow, Yellow-headed Cutworm) – 26-VII-2001 1 and 7-VI-2006 1.
1930. *Apamea scoparia* Mik., Must. & Laf. (9365. *Apamea lateritia* (Hufn.)) – 3-VII-2003 1, 27-VI-2004 1 and 5-VII-2004 2.
1931. *Apamea cogitata* (Sm.) (9367a. *Apamea dubitans cogitata* (Sm.)) (Ruby Quaker) – 17-VIII-2004 1, 28-VI-2005 1 and 26B-VII-2009 1.
1932. *Apamea inficita* (Wlk.) (9369. *Apamea inficita* (Wlk.)) (Inficita Quaker) – 26-VII-2001 1, 7-VIII-2001 1 and 25-VII-2002 1.
1933. *Apamea devastator* (Brace) (9382. *Crymodes devastator* (Brace) (Glassy Cutworm, Destructive Quaker) – 26-VII-2001 5, 7-VIII-2001 1, 23-VIII-2001 4, 10-IX-2001 2, 14-IX-2001 1, 25-VII-2002 2, 9-VI-2004 1, 27-VI-2004 1, 17-VIII-2004 1, 11-IX-2004 2 and 26B-VIII-2005 3.
1936. *Apamea niveivenosa* (Grt.) (9374. *Apamea niveivenosa* (Grt.)) (White-veined Quaker) – 26-VII-2001 1, 5-VII-2004 1, 13-VII-2004 1 and 26A-VII-2009 1.
1938. *Resapamea passer* (Gn. (9391. *Luperina passer* (Gn.)) (Dock Rustic) – 25-VIII-2002 1.
1939. *Eremobina claudens* (Wlk.) (9396. *Eremobina claudens* (Wlk.)) (Alberta Quaker) – 23-VIII-2001 1.
1943. *Oligia egens* (Wlk.) (9417. *Oligia egens* (Wlk.)) (Neomogen's Quaker) – 26-VII-2001 2, 7-VIII-2001 3, 23-VIII-2001 1 and 17-VIII-2004 2.

1944. *Oligia mactata* (Gn.) (9419. *Oligia mactata* (Gn.)) (Prairie Quaker) – 23-VIII-2001 2 and 26B-VIII-2005 2 and 21-VIII-2006 2.
1945. *Oligia illocata* (Wlk.) (9420. *Oligia illocata* (Wlk.)) (Wandering Quaker) – 23-VIII-2001 3.
1946. *Neoligia subjuncta* (Sm.) (9412.1. *Oligia laevigata* (Sm.)) (Short-cloaked Quaker) – 13-VII-2004 2.
1950. *Photodes includens* (Wlk.) (9434. *Spartiniphaga includens* (Wlk.)) (Silver-C Borer) – 25-VII-2002 2.
1954. *Hypocoena inquinata* (Gn.) (9437. *Chortodes inquinata* (Gn.)) (Sordid Wainscot) – 7-VIII-2001 1.
1956. *Hypocoena rufostriata* (Pack.) (9440. *Chortodes rufostriata* (Pack.)) (Brown-streaked Rustic) - 27-VI-2004 1, 13-VII-2004 1.
1959. *Capsula subflava* (Grt.) (9450. *Archanara subflava* (Grt.)) (Sublava Sedge Borer) – 9-VIII-2001 2, 17-VIII-2004 1 and 26B-VIII-2005 2.
1960. *Helotropha reniformis* (Grt.) (9453. *Celaena reniformis* (Grt.)) (Kidney-spotted Rustic) – 22-IX-2004 1 and 26B-VIII-2005 1.
1962. *Amphipoea americana* (Spey.) (9457. *Amphipoea americana* (Speyer)) (American Ear Moth) – 23-VIII-2001 1, 14-IX-2001 1, 31-VIII-2004 1, 11-IX-2004 1, 22-IX-2004 1 and 21-VIII-2006 1.
1963. *Papaipema harrisii* (Grt.) (9472. *Papaipema harrisii* (Grt.)) (Cow Parsnip Borer Moth) – 26-VIII-2005 1, 21-VIII-2006 1.
1968. *Hydraecia perobliqua* Harv. (9515. *Hydraecia perobliqua* Harv.) (Oblique Rustic) – 23-VIII-2001 1, 17-VIII-2004 1 and 22-IX-2004 2.

Noctuidae, Noctuinae, Arzamini

1971. *Bellura obliqua* (Wlk.) (9525. *Bellura obliqua* (Wlk.)) (Cattail Borer Moth) – 19-VI-2001 1, 2-V-2004 1, 25-V-2004 1, 2-VI-2004 1 and 9-VI-2004 1.

Noctuidae, Noctuinae, Xylenini

1972. *Hyppa contrasta* McD. (9579. *Hyppa contrasta* McD.) (Common Hyppa or Cranberry Cutworm) – 7-VI-2006 1.
1975. *Xylena nupera* (Lint.) (9873. *Xylena nupera* (Lint.)) (American Swordgrass) – 10-X-2005 2.
1976. *Xylena curvimacula* (Morr.) (9874. *Xylena curvimacula* (Morr.)) (Dot and Dash Swordgrass Moth) – 3-V-2001 2, 1-VI-2002 1 SR, 26-V-2002 1, 23-IV-2003 1, 13B-V-2003 6 SR, 9-VI-2004 1, 2-V-2004 1 (12 SR), 22-IX-2004 1, 10-X-2005 2 and 24-IV-2007 1.
1977. *Xylena thoracica* (Put.-Cram.) (9875. *Xylena thoracica* (Putnam-Cramer)) (Gray Swordgrass Moth) – 2-V-2004 1 and 24-IV-2007 1.
1978. *Xylena cineritia* (Grt.) (9876. *Xylena cineritia* (Grt.)) (Western Swordgrass Moth) – 10-X-2005 1 and 21-IV-2006 1.
1980. *Lithomoia germana* (Morr.) (9878. *Lithomoia solidaginis germana* (Morr.)) (American Peasant) – 10-IX-2001 1, 31-VIII-2004 1 and 22-IX-2004 1.
1981. *Homoglaea hircina* Morr. (9881. *Homoglaea hircina* Morr.) (Goat Sallow) – 28-IX-2001 1, 10-X-2005 1 and 24-IV-2007 1.
1983. *Litholomia napaea* (Morr.) (9884. *Litholomia napaea* (Morr.)) (Dark Gray Peasant) – 3-V-2001 2, 11-V-2001 2, 14-V-2001 1, 14-IX-2001 1, 25-IX-2001 1, 26-V-2002 1, 23-IV-2003 1, 6-IX-2003 2, 1-V-2004 1 (7 SR), 2-V-2004 3 SR, 19-V-2004 1 SR, 22-IX-2004 1 (11 SR), 13-IX-2005 1 and 10-X-2005 1.

1984. *Lithophane innominata* (Sm.) (9888. *Lithophane innominata* (Sm.)) (Nameless Pinion) – 26-V-2002 1 and 2-V-2004 1.
1986. *Lithophane amanda* (Sm.) (9891. *Lithophane amanda* (Sm.)) (Distant Pinion) – 10-X-2005 1.
1996. *Eupsilia tristigmata* (Grt.) (9935. *Eupsilia tristigmata* (Grt.)) (Three-spotted Sallow) – 23-IV-2003 1.
1999. *Eucirroedia pampina* (Gn.) (9952. *Eucirroedia pampina* (Gn.)) (Spotted Sallow) – 19-IX-2001 1, 14-IX-2001 1, 31-VIII-2004 1, 11-IX-2004 1 (7 SR), 22-IX-2004 1 (7 SR), 26B-VIII-2005 2 and 21-VIII-2006 1.
2002. *Sunira verberata* (Sm.) (9960. *Sunira verberata* (Sm.)) (Western Sallow) – 25-IX-2001 1, 6-IX-2003 3.
2003. *Anathix puta* (G. & R.) (9962. *Anathix puta* (Grt. & Rob.)) (Puta Sallow) – 26-VII-2001 1, 7-VIII-2001 3, 23-VIII-2001 2, 14-IX-2001 1, 6-IX-2003 1, 17-VIII-2004 1, 11-IX-2004 2, 26B-VIII-2005 1 and 21-VIII-2006 2.
2005. *Xanthia tatago* Laf. & Mik. (9965. *Xanthia togata* (Esp.)) (Pink-barred Sallow) – 23-VIII-2001 1, 14-IX-2001 1, 25-IX-2001 1, 6-IX-2003 1 and 22-IX-2004 1.
2008. *Brachylomia populi* (Stkr.) (9993. *Brachylomia populi* (Stkr.)) (Cloaked Peasant) – 23-VIII-2001 2, 17-VIII-2004 1 and 21-VIII-2006 1.
2009. *Brachylomia algens* (Grt.) (9998. *Brachylomia algens* (Grt.)) (Willow Peasant) – 31-VIII-2004 1.
2012. *Parastichtis suspecta* (Hbn.) (9431. *Parastichtis suspecta* (Hbn.)) (Mottled Quaker) – 3-VII-2001 1 and 26-VII-2001 3.
2019. *Enargia decolor* (Wlk.) (9549. *Enargia decolor* (Wlk.)) (Angle-striped Sallow) – 23-VIII-2001 2, 25-VIII-2001 1, 10-IX-2001 1, 14-IX-2001 1, 25-IX-2001 1, 6-IX-2003 1, 17-VIII-2004 12 SR, 31-VIII-2004 18 SR, 11-IX-2004 23 SR, 22-IX-2004 1 (36 SR), 26B-VIII-2005 1 and 21-VIII-2006 1.
2020. *Enargia infumata* (Grt.) (9550. *Enargia infumata* (Grt.)) (Lesser Angle-striped Sallow) – 25-VII-2002 1, 13-VII-2004 2, and 11-VII-2005 1.
2021. *Ipimorpha pleonectusa* Grt. (9555. *Ipimorpha pleonectusa* Grt.) (Even-lined Sallow) – 17-VIII-2004 1 and 21-VIII-2006 1.
2030. *Platypolia anceps* (Steph.) (9976. *Platypolia anceps* (Steph.)) (Rugged Rover) – 10-IX-2001 2, 14-IX-2001 1, 6-IX-2003 1, 11-IX-2004 1, 22-IX-2004 1 and 13-IX-2005 1.
2035. *Mniotype ducta* (Grt.) or 2036. *Mniotype tenera* (Sm.) (9987. *Mniotype ducta* (Grt.) or 9988. *Mniotype tenera* (Sm.)) – 9-VI-2004 1 and 7-VI-2006 1.
2037. *Sutyna privata* (Wlk.) (9990. *Sutyna profunda* (Sm.)) (Profound Sallow) – 13-IX-2005 1.
2038. *Ufeus satyricus* Grt. (11051. *Ufeus satyricus* Grt.) (Satyr Dart) – 22-IX-2004 1.
2040. *Chytonix palliatricula* (Gn.) (9556. *Chytonix palliatricula* (Gn.)) (Cloaked Marvel) – 22-V-2001 1, 19-VI-2001 1, 28-V-2003 2, 9-VI-2004 4, 31-V-2005 4, 14-VI-2005 1 and 7-VI-2006 2.

Noctuidae, Noctuinae, Orthosiini

2042. *Stretchia plusiaeformis* Hy. Edw. (10471. *Stretchia plusiaeformis* Hy. Edw.) (Gray Spectacles) – 3-V-2001 2 and 23-IV-2003 1 and 28-IV-2006 1.
2044. *Orthosia revicta* (Morr.) (10490. *Orthosia revicta* (Morr.)) (Subdued Quaker) – 3-V-2001 3, 11-V-2001 2, 22-V-2001 3, 23-IV-2003 1, 13-V-2003 2, 28-V-2003 1, 1-V-2004 2, 2-V-2004 12, 8-V-2004 2, 19-V-2004 4, 25-V-2004 and 24-IV-2007 1.

2045. *Orthosia segregata* (Sm.) (10493. *Orthosia segregata* (Sm.)) (Segregate Penman) – 3-V-2001 4, 14-V-2001 1, 22-V-2001 1, 26-V-2002 1, 28-V-2003 1, 1-V-2004 1, 2-V-2004 1, 8-V-2004 1 (2 SR), 19-V-2004 1, 25-V-2004 1 and 24-IV-2007 1. *Orthosia segregata* f. *negussa* (Sm.) – 3-V-2001 1, 22-V-2001 1, 23-IV-2003 1 and 8-V-2004 2.
2046. *Orthosia hibisci* (Gn.) (10495. *Orthosia hibisci* (Gn.)) – 23-IV-2003 1 and 24-IV-2007 1.
2049. *Egira dolosa* (Grt.) (10513. *Egira dolosa* (Grt.)) (Greater Black-letter Dart) – 24-IV-2001 2, 3-V-2001 3, 22-V-2001 1, 23-IV-2003 1, 13B-V-2003 4 SR and 2-V-2004 1 (4 SR).

Noctuidae, Noctuinae, Tholerini

2053. *Nephelodes minians* Gn. (10524. *Nephelodes minians* Gn.) (Bronzed Cutworm Moth) – 7-VIII-2001 1, 23-VIII-2001 1, 17-VIII-2004 1, 31-VIII-2004 1 and 21-VIII-2006 1.

Noctuidae, Noctuinae, Hadenini

2058. *Anarta trifolii* (Hufn.) (10223. *Discestra trifolii* (Hufn.)) (Clover Cutworm Moth, The Nutmeg) – 28-V-2003 2, 19-V-2004 1 and 2-VI-2004 1.
2059. *Anarta mutata* (Dod) (10224. *Discestra mutata* (Dod)) (The Changeling) – 28-V-2003 1.
2064. *Anarta farnhami* (Grt.) (10232. *Discestra farnhami* (Grt.)) (Farnham's Discestra) – 22-V-2001 1, 28-V-2003 1, 19-V-2004 1, 25-V-2004 3 and 7-VI-2006 1.
2074. *Polia nimbosa* (Gn.) (10275. *Polia nimbosa* (Gn.)) – 6-VI-2001 1, 19-VI-2001 2, 3-VII-2003 1, 27-VI-2004 2, 5-VII-2004 1 and 7-VI-2006 2.
2075. *Polia nimbosa* (Gn.) (10276. *Polia imbrifera* (Gn.)) (Cloudy Arches) – 3-VII-2001 2, 3-VII-2003 1 and 5-VII-2004 3, 14-VI-2005 1, 28-VI-2005 2, 11-VII-2005 1 and 26A-VII-2009 1.
2079. *Polia purpurissata* (Grt.) (10280. *Polia purpurissata* (Grt.)) (Purple Arches) – 26B-VII-2009 1 and 26C-VII-2009 1.
2082. *Lacanobia atlantica* (Grt.) (10297. *Lacanobia atlantica* (Grt.)) (Atlantic Arches) – 22-V-2001 1, 19-VI-2001 1, 27-VI-2004 1, 31-V-2005 1, 14-VI-2005 1 and 7-VI-2006 1.
2083. *Lacanobia radix* (Wlk.) (10298. *Lacanobia radix* (Wlk.)) (Garden Arches) – 14-V-2001 1, 22-V-2001 4, 19-V-2004 3, 25-V-2004 1, 2-VI-2004 1, 9-VI-2004 3, 31-V-2005 2, 7-VI-2006 1 and 2-VI-2010 1.
2085. *Melanchra adjuncta* (Bdv.) (10292. *Melanchra adjuncta* (Bdv.)) (Hitched Arches) – 3-VII-2001 1.
2086. *Melanchra picta* (Harr.) (10293. *Melanchra picta* (Harr.)) (Painted Arches) – 26B-VII-2009 1.
2090. *Spiramater lutra* (Gn.) (10301. *Spiramater lutra* (Gn.)) – 3-VII-2001 2.
2094. *Trichordestra dodii* (Sm.) (10305. *Trichordestra dodii* (Sm.)) (Dod's Arches) – 6-VI-2001 1?.
2107. *Sideridis rosea* (Harv.) (10265. *Sideridis rosea* (Harv.)) (Rosy Penman, The Rosy Wing) – 19-V-2004 1 and 2-VI-2004 1 and 7-VI-2006 1.

Noctuidae, Noctuinae, Leucaniini

2112. *Faronta diffusa* (Wlk.) (10431. *Faronta diffusa* (Wlk.)) (Wheat Head Armyworm Moth) – 3-VII-2001 1, 9-VI-2004 1 and 31-V-2005 2.
2113. *Dargida procinctus* (Grt.) (10428. *Dargida procincta* (Grt.)) (The Girdler) – 10-X-2005 1.
2114. *Mythimna oxygala* (Grt.) (10436. *Aletia oxygala* (Grt.)) (Lesser Wainscot) – 26-VII-2001 1, 7-VIII-2001 1, 23-VIII-2001 2, 25-VII-2002 1, 11-VII-2005 1, 26A-VII-2009 1, 26B-VII-2009 1 and 26C-VII-2009 1.

2118. *Leucania multilinea* (Wlk.) (10446. *Leucania multilinea* Wlk.) (Many-lined Wainscot) – 26-VII-2001 1 and 11-VII-2005 1.
2119. *Leucania commoides* Gn. (10447. *Leucania commoides* Gn.) (Comma Wainscot) – 26-VII-2001 2 and 17-VIII-2004 1 and 26A-VII-2009 1.
2120. *Leucania insueta* (Gn.) (10449. *Leucania insueta* (Gn.)) – 26-VII-2001 1.

Noctuidae, Noctuinae, Eriopygini

2142. *Lacinipolia meditata* (Grt.) (10368. *Lacinipolia meditata* (Grt.)) (The Thinker or Pink-backed Cutworm Moth) – 26B-VII-2009 1 and 26C-VII-2009 1.
2143. *Lacinipolia lustralis* (Grt.) (10370. *Lacinipolia lustralis* (Grt.)) (Lustrous Arches) – 19-VI-2001 1, 3-VII-2001 1, 3-VII-2003 1, 5-VII-2004 2, 28-VI-2005 1 and 7-VI-2006 1.
2145. *Lacinipolia anguina* (Grt.) (10372. *Lacinipolia anguina* (Grt.)) (Snaky Arches) – 2-V-2004 1.
2148. *Lacinipolia vicina* (Grt.) (10394. *Lacinipolia vicina* (Grt.)) (Small Gray Arches) – 3-VII-2001 2, 27-V-2004 1, 26B-VII-2009 1 and 26C-VII-2009 1.
2150. *Lacinipolia renigera* (Steph.) (10397. *Lacinipolia renigera* (Steph.)) (Kidney-spotted Arches or Bristly Cutworm Moth) – 3-VII-2001 1, 26-VII-2001 2, 25-VII-2002 1, 13-VII-2004 1, 26A-VII-2009 1, 26B-VII-2009 1 and 26C-VII-2009 1.
2152. *Lacinipolia lorea* (Gn.) (10405. *Lacinipolia lorea* (Gn.)) (Bridled Arches) – 3-VII-2001 3, 17-VI-2004 1 (2 SR), 5-VII-2004 1, 14-VI-2005 1, 28-VI-2005 1, 11-VII-2005 1 and 7-VI-2006 1.
2153. *Lacinipolia olivacea* (Morr.) (10406. *Lacinipolia olivacea* (Morr.)) (Olive Arches) – 26-VII-2001 2, 7-VIII-2001 1, 26B-VIII-2005 1, 21-VIII-2006 1 and 26B-VII-2009 1.
2157. *Anhimella contrahens* (Wlk.) (10530. *Anhimella contrahens* (Wlk.)) (Brown Stylus) – 26C-VII-2009 1.
2160. *Protorthodes incincta* (Morr.) (10547. *Protorthodes utahensis* (Sm.)) – 17-VIII-2004 1.
2162. *Protorthodes oviduca* (Gn.) (10563. *Protorthodes oviduca* (Gn.)) (Ruddy Quaker) – 22-V-2001 3, 6-VI-2001 1, 28-V-2003 1, 11-VI-2003 1, 19-V-2004 1 SR, 25-V-2004 1 (10 SR), 2-VI-2004 1 (4 SR) and 25-V-2010 2.
2168. “*Polia*” *detracta* (Wlk.) (10288. *Polia detracta* (Wlk.)) (Dingy Arches) – 19-VI-2001 2, 9-VI-2004 2, 27-VI-2004 1 and 14-VI-2005 1.

Noctuidae, Noctuinae, Noctuini

2174. *Anicla tepperi* (Sm.) (10910. *Euagrotis tepperi* (Sm.)) (Black-girdled Dart) – 9-VI-2004 1 and 26B-VII-2009 1.
2176. *Actebia balanitis* (Grt.) (10923. *Protexarnis squalida* (Grt.)) (Bracketed Dart) – 3-VII-2003 1 and 31-VIII-2004 1.
2188. *Euxoa adumbrata* (Ev.) (Not in Hodges) (Sordid Dart) – 5-VII-2004 1.
2191. *Euxoa mimallonis* (Grt.) (10738. *Euxoa mimallonis* (Grt.)) (Ruddy Dart) – 11-IX-2004 2, 26B-VIII-2005 2 and 21-VIII-2006 1.
2194. *Euxoa messoria* (Harr.) (10705. *Euxoa messoria* (Harr.)) (Reaper Dart or Dark-sided Cutworm) – 23-VIII-2001 1.
2195. *Euxoa divergens* (Wlk.) (10702. *Euxoa divergens* (Wlk.)) (Divergent Dart) – 17-VI-2004 1, 5-VII-2004 1 and 13-VII-2004 1.
2204. *Euxoa tristicula* (Morr.) (10723. *Euxoa tristicula* (Morr.)) (Early Cutworm Moth) – 26-VII-2001 1.

2212. *Euxoa intrita* (Morr.) (10749. *Euxoa intrita* (Morr.)) (Tippling Dart) – 17-VIII-2004 2 and 31-VIII-2004 1.
2215. *Euxoa declarata* (Wlk.) (10755. *Euxoa declarata* (Wlk.)) (Clear Dart) – 23-VIII-2001 3, 31-VIII-2004 2 and 26B-VIII-2005 3.
2216. *Euxoa campestris* (Grt.) (10756. *Euxoa campestris* (Grt.)) (Flat Dart) – 11-IX-2004 1.
2222. *Euxoa albipennis* (Grt.) (10807. *Euxoa albipennis* (Grt.)) (White-winged Dart) – 23-VIII-2001 2, 6-IX-2003 2, 17-VIII-2004 3, 31-VIII-2004 2, 11-IX-2004 2 and 22-IX-2004 1.
2228. *Euxoa ochrogaster* (Gn.) (10801. *Euxoa ochrogaster* (Gn.)) (Red-backed Cutworm Moth) – 26-VII-2001 1, 7-VIII-2001 1, 23-VIII-2001 2, 14-IX-2001 1, 25-VII-2002 4, 17-VIII-2004 1, 26B-VIII-2005 2, 26A-VII-2009 1 and 26C-VII-2009 1.
2233. *Euxoa basalis* (Grt.) (10798. *Euxoa basalis* (Grt.)) (Pale-based Dart) – 26-VII-2001 1, 25-VII-2002 1, 27-VIII-2004 1 and 21-VIII-2006 1.
2239. *Euxoa servitus* (Sm.) (10854. *Euxoa servita* (Sm.)) (Servita Dart) – 26A-VII-2009 1 and 26B-VII-2009 1.
2239. *Euxoa servitus* (Sm.) or 2240. *Euxoa auripennis* Laf. (10854. *Euxoa servita* (Sm.)) (Servita Dart) or 10852. *Euxoa auripennis* Laf.) – 23-VIII-2001 1.
2252. *Euxoa quadridentata* (G. & R.) (10830. *Euxoa quadridentata* (Grt. & Rob.)) (Four-toothed Dart) – 23-VIII-2001 1, 6-IX-2003 2, 17-VIII-2004 1, 31-VIII-2004 1, 11-IX-2004 1 and 22-IX-2004 1.
2254. *Euxoa dargo* (Stkr.) (10836. *Euxoa dargo* (Stkr.)) (Dargo Dart) – 23-VIII-2001 1 and 25-VII-2002 1.
2255. *Euxoa detersa* (Wlk.) (10838. *Euxoa detersa* (Wlk.)) (Rubbed Dart) – 23-VIII-2001 2, 17-VIII-2004 1 and 21-VIII-2006 1.
2270. *Euxoa maimes* (Sm.) (10861. *Euxoa maimes* (Sm.)) (Maimes Dart) – 23-VIII-2001 3.
2271. *Euxoa ridingsiana* (Grt.) (10861. *Euxoa ridingsiana* (Grt.)) (Riding's Dart) – 7-VIII-2001 1 and 23-VIII-2001 1.
2274. *Feltia jaculifera* (Gn.) (10670. *Feltia jaculifera* (Gn.)) (Dingy Cutworm Moth) – 26-VII-2001 1, 7-VIII-2001 1, 23-VIII-2001 2, 25-VII-2002 1, 17-VIII-2004 1, 26A-VII-2009 1, 26B-VII-2009 1 and 26C-VII-2009 1.
2275. *Feltia herilis* (Grt.) (10676. *Feltia herilis* (Grt.)) (Master's Dart) – 7-VIII-2001 1, 25-VII-2002 1 and 26 C-VII-2009 1.
2276. *Agrotis vetusta* (Wlk.) (10641. *Agrotis vetusta* Wlk.) (Old Man Dart) – 23-VIII-2001 1, 17-VIII-2004 2, 31-VIII-2004 1, 26B-VIII-2005 1 and 21-VIII-2006 1.
2282. *Agrotis venerabilis* (Wlk.) (10651. *Agrotis venerabilis* Wlk.) (Venerable Dart) – 23-VIII-2001 2, 31-VIII-2004 1, 11-IX-2004 1 and 26B-VIII-2005 1.
2283. *Agrotis vancoverensis* Grt. (10652. *Agrotis vancoverensis* Grt.) – 19-VI-2001 1, 2-VI-2004 1, 9-VI-2004 2, 27-VI-2004 1 (4 SR), 14-VI-2005 1, 1-VI-2006 1 and 26B-VII-2009 1.
2284. *Agrotis stigmosa* Morr. (10658. *Agrotis stigmosa* Morr.) – 22-V-2001 1, 6-VI-2001 1, 11-VI-2003 1 and 25-V-2004 1.
2292. *Diarsia rubifera* (Grt.) (10917. *Diarsia rubifera* (Grt.)) (Rubifera Dart) – 26-VII-2001 5 and 7-VIII-2001 2.
2294. *Cerastis salicarum* (Wlk.) (10996. *Cerastis salicarum* (Wlk.)) (Willow Dart) – 28-IV-2006 1.
2295. *Paradiarsia littoralis* (Pack.) (10992. *Paradiarsia littoralis* (Pack.)) – 19-VI-2001 1, 9-VI-2004 1, 27-VI-2004 2 SR, 5-VII-2004 1, 14-VI-2005 1, 28-VI-2005 1, 11-VII-2005 1 and 7-VI-2006 1.
2299. *Chersotis juncta* (Grt.) (11003. *Chersotis juncta* (Grt.)) (Scribbled Dart) – 11-VII-2005 1.
2301. *Cryptocala acadensis* (Bethune) (11012. *Cryptocala acadensis* (Bethune)) (Catocaline Dart) – 26-VII-2001 1 and 26B-VII-2009 1.

2302. *Spaelotis clandestina* (Harr.) (10926. *Spaelotis clandestina* (Harr.)) (Clandestine Dart) – 27-VI-2004 4 (13 SR), 5-VII-2004 2, 17-VIII-2004 1, 22-IX-2004 1, 31-V-2005 1, 14-VI-2005 1, 28-VI-2005 1 and 21-VIII-2006 1.
2304. *Eurois occulta* (L.) (10929. *Eurois occulta* (L.)) (Great Gray Dart) – 25-VII-2002 1
2305. *Eurois astricta* Morr. (10930. *Eurois astricta* Morr.) (Great Brown Dart) – 26-VII-2001 1, 11-VII-2005 1, 26A-VII-2009 1, 26B-VII-2009 1 and 26C-VII-2009 1.
2307. *Graphiphora augur* (F.) (10928. *Graphiphora augur* (Grt.)) (Soothsayer Dart) – 2-VII-2001 2, 13-VII-2004 1 and 11-VII-2005 1.
2308. *Anaplectoides prasina* (D. & S.) (11000. *Anaplectoides prasina* (D. & S.)) (Green Arches) – 3-VII-2001 1.
2309. *Anaplectoides pressus* (Grt.) (11001. *Anaplectoides pressus* (Grt.)) (Dappled Dart) – 3-VII-2001 1 and 3-VII-2003 1.
2312. *Euretagrostis perattentus* (Grt.) (11008. *Euretagrostis perattentus* (Grt.)) – 3-VII-2001 1.
2313. *Xestia smithii* (Snell.) (10944. *Xestia smithii* (Snellen)) (Smith's Dart) – 26-VII-2001 6, 23-VIII-2001 1, 17-VIII-2004 1, 26B-VIII-2005 2 and 21-VIII-2006 1.
2314. *Xestia normaniana* (Grt.) (10943. *Xestia normaniana* (Grt.)) (Norman's Dart) – 26-VII-2001 3, 26A-VII-2009 1, 26B-VII-2009 1 and 26C-VII-2009 1.
2322. *Xestia c-nigrum* (L.) (10942. *Xestia c-nigrum* (L.)) (Lesser Black-letter Dart) – 3-VII-2001 1.
2335. *Agnorisma bugrai* (Koçak) (10954. *Xestia collaris* (G. & R.)) (Collared Dart) – 23-VIII-2001 1, 17-VIII-2004 1, 11-IX-2004 1, 21-IX-2004 1 and 21-VIII-2006 1.
2337. *Pseudohermonassa tenuicula* (Morr.) (10951. *Pseudohermonassa tenuicula* (Morr.)) (Hairpin Dart) – 26-VII-2001 2, 25-VII-2002 1, 26B-VII-2009 1 and 26C-VII-2009 1.
2344. *Protolampra rufipectus* (Morr.) (11004. *Protolampra rufipectus* (Morr.)) (Red-breasted Dart) – 26-VII-2001 4, 25-VII-2002 1 and 21-VIII-2006 1.
2351. *Abagrotis reedi* Buckett (11040. *Abagrotis reedi* Buckett) (Reed's Dart) – 26-VII-2001 1 and 6-IX-2003 1.
2355. *Abagrotis hermina* Laf. (Not in Hodges) – 23-VIII-2001 3, 14-IX-2001 1 and 6-IX-2003 1.
2357. *Abagrotis placida* (Grt.) group (11041. *Abagrotis placida* (Grt.) group) – 31-VIII-2004 1 and 26B-VIII-2005 5.
2364. *Abagrotis cupida* (Grt.) (11043. *Abagrotis cupida* (Grt.)) – 6-IX-2003 1 and 11-IX-2004 1.

DISCUSSION

An analysis of last year's data of the moths encountered in twelve major study areas in south-central Alberta, reveals that the present area (RS) is most similar (57.10%) to the aspen parkland of the Buffalo Lake Conservation Area and (55.57%) to the nearby semi-urban Bird residence in Erskine (ER). It is least similar (37.61%) to the more southern East Arrowwood Coulee site. Some prairie elements are present at BL while none occur at RS which features a chokecherry/saskatoon/aspen community.

SUMMARY

Four hundred and sixty-three moths and one butterfly are reported for Rochon Sands Provincial Park. If all species in the undetermined categories were named, the actual total would be close to 500. The total number of species that might be expected is close to 600, so it is obvious that further research would add to the total. To put things into perspective, Pohl et al (2010) document 2367 species of Lepidoptera for Alberta.

The abundance of chokecherry and saskatoon in this area, and lack of other habitats, make it ecologically distinct from the other areas studied. This may be the reason for the presence of at least some of the following interesting species: *Niditinea orleansella*, *Perittia cygnodiella*, *Hypatopa titanella*, *Blastodacna curvilineella*, *Epinotia albicapitana*, *Cydia ingrata*, *Pyrausta nicalis*, *Nemoria mimosaria* and *Hesperumia sulphuraria*. If other habitats were present, and also a greater variety of potential food plants, the species totals would be considerably higher.

Of the 13 major areas involved in the present study, 8 species of moths were found only at RS – *Perittia cygnodiella*, *Coleophora maritella*, *Epinotia xandana*, *Hellinsia lactodactylus*, *Herpetogramma pertextalis*, *Eupithecia gelidata*, *Nemoria mimosaria* and *Protorthodes incincta*.

ACKNOWLEDGEMENTS

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Felix Sperling and Danny Shepley facilitated the study of specimens in the Bowman Collection of the Strickland Museum, and Greg Pohl did the same for the Northern Forest Research Centre Entomology Collection. Ernest Mengersen is thanked for identifying several species and for allowing access to the Entomology Collection at Olds College. Wayne Nordstrom and Gerry Bennett are thanked for their help in obtaining Letters of Authority to allow the collecting of Lepidoptera in Rochon Sands Provincial Park. Gerry Bennett kindly provided a key that allowed access to the Group Campground area.

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USEFUL ONLINE INFORMATION SOURCES ON MOTHS

Information on, and illustrations of, 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 of 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://acleris.com/dls/mothindex.html>). As many of the species also occur in Alberta, these images can be quite helpful.

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APPENDIX

Collection dates, sites and other details

- 5 April 2001 – UV, chokecherry/saskatoon/aspens, Group Campground area, 52.46, 112.88, 720 m.
- 3 May 2001 – UV, chokecherry/saskatoon/aspens, Group Campground area, 52.46, 112.88, 720 m. With Ted Pike.
- 6 June 2001 – UV, chokecherry/saskatoon/aspens, Group Campground area, 52.46, 112.88, 720 m.
- 3 July 2001 – UV, chokecherry/saskatoon/aspens, Group Campground area, 52.46, 112.88, 720 m.
- 26 July 2001 – UV, chokecherry/saskatoon/aspens, Group Campground area, 52.46, 112.88, 720 m.
- 7 August 2001 – UV, chokecherry/saskatoon/aspens, Group Campground area, 52.46, 112.88, 720 m. Lots of midges and corixids.
- 23 August 2001 – UV, chokecherry/saskatoon/aspens, Group Campground area, 52.46, 112.88, 720 m.
- 10 September 2001 – UV, chokecherry/saskatoon/aspens, Group Campground area, 52.46, 112.88, 720 m.
- 14 September 2001 – UV, chokecherry/saskatoon/aspens, Group Campground area, 52.46, 112.88, 720 m.
- 25 September 2001 – UV, chokecherry/saskatoon/aspens, Group Campground area, 52.46, 112.88, 720 m.
- 26 May 2002 – UV, chokecherry/saskatoon/aspens, Group Campground area, 52.46, 112.88, 720 m.
- 1 June 2002 – UV, chokecherry/saskatoon/aspens, Group Campground area, 52.46, 112.88, 720 m.
- 25 July 2002 – UV, chokecherry/saskatoon/aspens, Group Campground area, 52.46, 112.88, 720 m. Lots of little, black beetles and corixids.
- 23 April 2003 – UV, chokecherry/saskatoon/aspens, Group Campground area, 52.46, 112.88, 720 m.

- 13 May 2003 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46346, 112.89494, 730 m.
- 28 May 2003 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46346, 112.89494, 730 m.
- 11 June 2003 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46346, 112.89494, 730 m.
- 3 July 2003 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46346, 112.89494, 730 m.
- 6 September 2003 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46346, 112.89494, 730 m.
- 1 May 2004 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 2 May 2004 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 8A May 2004 – UV, aspen woods with saskatoons, beside Maintenance Buildings, 52.461, 112.889, 791 m.
- 8B May 2004 – UV, aspen woods, south of Maintenance Buildings, 52.459, 112.888, 807 m.
- 19 May 2004 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 25 May 2004 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m. Lots of black, sticky midges.
- 2 June 2004 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 8 June 2004 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 27 June 2004 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 5 July 2004 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 13 July 2006 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 17 August 2004 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 31 August 2004 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 11 September 2004 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 22 September 2004 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 31 May 2005 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 14 June 2005 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 28 June 2005 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 11 July 2005 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 26B August 2005 – UV, chokecherry/saskatoon, Maintenance Area, 52.461, 112.888, 784 m.

- 26B August 2005 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 21 April 2006 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 28 April 2006 – UV, aspen/chokecherry, 300 yards east of Group Campground, 52.463, 112.891, 795 m
- 14 May 2006 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 7 June 2006 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 21 August 2006 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 24 April 2007 – 3 UV traps, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 26A July 2009 – UV, clearing in aspen woods, Maintenance Area, 52.461, 112.887, 780 m.
- 26B July 2009 – UV, clearing in chokecherry/saskatoon, Maintenance Area, 52.461, 112.887, 790 m.
- 26C July 2009 – UV, clearing in aspen woods, Maintenance Area, 52.461, 112.887, 810 m.
- 5 April 2010 – diurnal, sunny, over 10 C, aspen male catkins fully open, close to observation structure on hill, 52.28, 112.53, 820 m. *Epinotia xandana* photographed.
- 16 April 2010 – diurnal, sunny, 20 C, aspen male catkins fully open, Rochon Sands Provincial Park, 52.28, 112.53, 820 m.
- 25 May 2010 – 3 UV traps, chokecherry/saskatoon, beside Group Campground area, 52.46, 112.88, 720 m.
- 2 June 2010 – 3 UV traps, chokecherry/saskatoon, beside Group Campground area, 52.46, 112.88 m.