

MOTHS OF ROCHON SANDS PROVINCIAL PARK, ALBERTA, 2001-2009

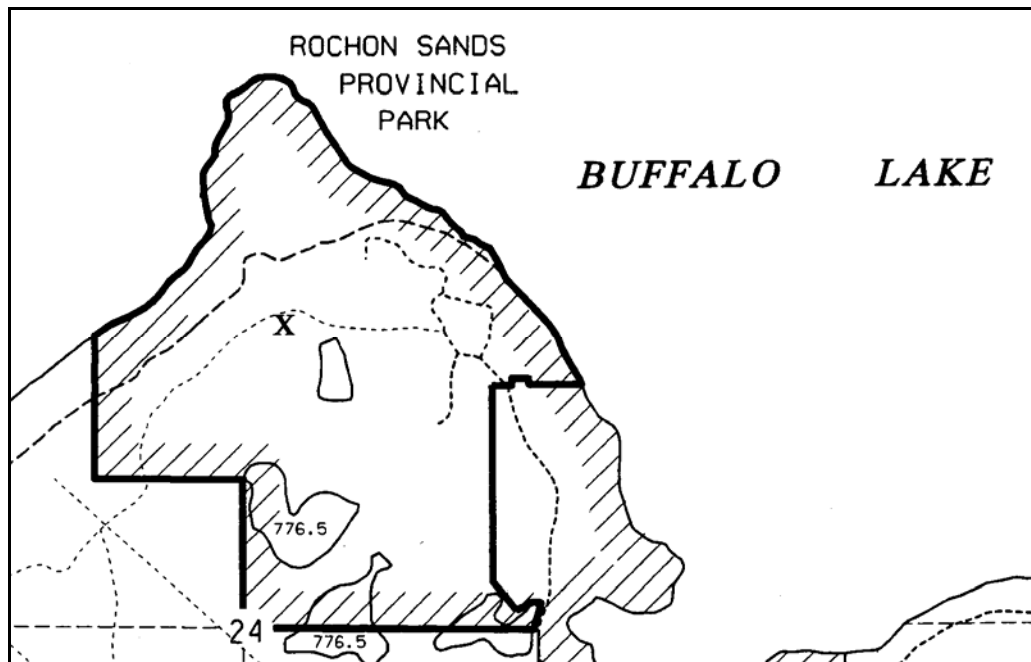
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The present paper incorporates the information in previous reports. It also includes a number of redeterminations and additions to the information in the earlier reports.

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.



Rochon Sands Provincial Park. "X" marks the study site

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.

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 they will eventually be donated to the Strickland Museum at the University of Alberta (UASM), and, possibly some, to the Northern Forest Research Centre (NFRC) and the Canadian National Collection (CNC).

CHECKLIST

The order, and terminology, is that of R.W. Hodges (1983) except where recent changes in taxonomy have occurred. All collections were made by Bird. 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.

Pohl et al (2010) have put together an up-to-date annotated list of the Lepidoptera of Alberta. They include 2367 species, many more than those mentioned by Bowman

(1951). The list incorporates recent changes in taxonomy of all groups according to various literature sources, including those listed for the Noctuoidea by Lafontaine & Schmidt (2010).

The present report incorporates all of the findings in Bird (2002-2008), including a number of corrections to previous identifications; plus the information acquired in 2009.

HEPIALIDAE – Ghost Moths and Swifts

19. *Sthenopsis purpurascens* (Pack.) (Large Ghost Moth) – 26-VII-2001 1.
 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.

TINEIDAE – Clothes Moths and others

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.
 413. *Niditinea orleansella* (Cham.) – 27-VI-2004 1.
 421. *Monopis spilotella* Tengström – 3-VII-2003 1, 5-VII-2004 2 and 13-VII-2004 1.
Monopis laevigella (D. & S.) – 14-VI-2005 1 and 7-VI-2006 1. This species is not listed in Hodges (1983).

GRACILLARIIDAE – Gracilariid Moths

- 583-644. *Caloptilia* sp. – 28-V-2003 1 and 27-VI-2004 1.
 589. *Caloptilia anthobaphes* (Meyr.) – 17-VIII-2004 1 and 31-VI-2005 2..
 669. *Parornix conspicuella* (Dietz) – 6-VI-2001 1 and 27-VI-2004 2.
 725/802. *Phyllonorycter* sp. – 31-V-2005 1.

OECOPHORIDAE – Oecophorid Moths

878. *Agonopterix canadensis* (Bsk.) – 26A-VII-2009 1.
 889. *Agonopterix argillacea* (Wlsm.) – 3-V-2001 1.
 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.
 912. *Semioscopis packardella* (Clem.) – 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.
 914. *Semioscopis inornata* Wlsm. – 23-IV-2003 2.
 915. *Semioscopis megamicrella* Dyar – 3-V-2001 1, 23-IV-2003 1, 2-V-2004 1 and 21-IV-2006 1.
 922. *Depressaria pastinacella* (Dup.) (Parsnip Webworm Moth) – 3-V-2001 3, 22-V-2001 1 and 2-V-2004 1.
 926. *Depressaria alienella* Bsk. – 11-IX-2004 1.

SYMMOCIDAE – Symmocid Moths

1138.31. *Glyphidocera hurlberti* Adamski – 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).

BLASTOBASIDAE – Blastobasid Moths

1156. *Hypatopa titanella* McD. – 13-VII-2004 1.

ELACHISTIDAE – Elachistid Moths

Species indet. – 3-VII-2001 2, 2 VI-2004 1 and 11-VII-2005 1.

1077. *Perittia cygnodiella* (Bsk.) – 28-V-2003 1. The identification was made by Dr. Jean-François Landry.

COLEOPHORIDAE – Coleophorid Moths

1254-1398. *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.

1254. *Coleophora multipulvella* (Cham.) – 11-VII-2005 1.

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

1352. *Coleophora sparsipulvella* Cham. – 13-VII-2004 1.

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

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).

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.

AGONOXENIDAE – Agonoxenid Moths

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

COSMOPTERYGIDAE – Cosmopterygid Moths

1515. *Limnaecia phragmitella* Staint. – 25-VII-2002 1.

GELECHIIDAE – Gelechiid Moths

- 1681-2311. 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.
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.
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 (Pohl et al. 2005).
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.
1986. *Gnorimoschema gallaesolidaginis* (Riley) – 21-VIII-2006 1.
- 2054-2125. *Chionodes* sp. – 22-V-2001 1, 3-VII-2001 1.
2093. *Chionodes mediofuscella* (Clem.) – 28-V-2003 5, 9-VI-2004 5, 27-VI-2004 1 and 31-V-2005 4 and 7-VI-2006 2.
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.
2117. *Chionodes terminimaculella* (Kft.) – 22-V-2001 1, 28-V-2003 1 and 25-V-2004 2.
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 and 7-VI-2006 1.
2243. *Anacampsis niveopulvella* (Cham.) – 8-IX-2003 1.
2267. *Helcystogramma fernaldella* (Bsk.) (was *Brachmia fernaldella*) – 28-V-2003 1, 25-V-2004 2 and 31-V-2005 1.
2302. *Dichomeris setosella* (Clem.) – 13-IX-2005 2, 26B-VII-2009 1 and 26C-VII-2009 1.

ALUCITIDAE – Many Plume Moths

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

EPERMENIIDAE – Epermeniid Moths

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

PLUTELLIDAE – Plutellid Moths

2365. *Plutella* (Greya) *vanella* (Wlsm.) – 26C-VII-2009 1.
 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.
 2371. *Ypsolopha canariella* (Wlsm.) – 7-VIII-2001 1 and 25-VII-2002 2.
 2376. *Ypsolopha dentiferella* (Wlsm.) – 26-VII-2001 1, 25-VII-2002 1, 22-IX-2004 1 and 26B-VII-2009 1.
 2380. *Ypsolopha falciferella* (Wlsm.) – 3-V-2001 1.

ARGYRESTHIIDAE – Argyresthiid Moths

2449. *Argyresthia conjugella* Zell. – 27-VI-2004 2.

COSSIDAE – Carpenterworm Moths

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

TORTRICIDAE – Tortricid Moths

2707. *Bactra verutana* Zell. (Javelin Moth) – 6-IX-2003 1, 31-VIII-2004 1 and 28-VI-2005 1.
 2743. *Endothenia nubilana* (Clem.) – 13-VII-2004 1.
 2745. *Endothenia albolineana* (Kft.) (Spruce Needleminer) – 19-VI-2001 1.
 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.
 2769. *Pseudosciaphila duplex* (Wlsm.) (Spotted Leafroller Moth or Poplar Leafroller Moth) – 27-VI-2004 1 and 7-VI-2006 4.
 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.
 2774-2859. *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.
 2794. *Olethreutes quadrifidus* (Zell.) – 3-VII-2001 3, 27-VI-2004 4, 13-VII-2004 1 and 11-VII-2005 1.
 2859. *Celypha* (*Olethreutes*) *cespitana* (Hbn.) – 26B-VII-2009 1.
 2861. *Hedya ochroleucana* (Frölich) (Off-white Hedya Moth) – 26-VII-2001 1, 13-VII-2004 2 and 11-VII-2005 1.
 2862. *Hedya nubiferana* (Haw.) (Marbled Orchard Tortrix Moth) – 26A-VII-2009 1.
 2916. *Phaneta formosana* (Zell.) (Beautiful Phaneta Moth) – 28-V-2003 1 and 31-V-2005 1.
 2929. *Phaneta ochroterminana* (Kft.) – 13-VII-2004 1 and 11-VII-2005 1.
 2933. *Phaneta marmontana* (Kft.) – 11-VII-2005 1.

2949. *Phaneta lapidana* (Wlsm.) – 22-IX-2004 1.
 2965. *Phaneta fertoriana* (Heinr.) – 21-VIII-2006 1.
 2980. *Phaneta pallidicostana* (Wlsm.) – 13-VII-2004 1.
 3005. *Phaneta offectalis* (Hulst) – 27-VI-2004 1.
 3035. *Eucosma morrisoni* (Wlsm.) – 26B-VII-2009 1.
 3037. *Eucosma agricolana* (Wlsm.) – 9-VI-2004 3, 27-VI-2004 1, 11-VII-2005 1 and 7-VI-2006 1.
 3119. *Eucosma juncticiliana* (Wlsm.) – 25-VII-2002 1, 17-VIII-2004 1 and 26A-VII-2009 1.
 3223. *Gypsonoma fasciolana* (Clem.) – 7-VI-2006 2.
 3229. *Gypsonoma adjuncta* Heinr. – 7-VI-2006 12.
 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.
 3288. *Epinotia castaneana* (Wlsm.) – 11-VII-2005 3.
 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).
 3306. *Epinotia nisella* (Cl.) (Variable Tortrix Moth) – 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.
 3307. *Epinotia criddleana* (Kft.) – 25-VII-2002 2, 13-IX-2005 1 and 21-VIII-2006 3.
 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.
 3351. *Epinotia lindana* (Fern.) (Diamondback Epinotia Moth) – 22-IX-2004 1 and 21-VIII-2006 1.
 3366. *Ancylis laciniana* (Zell.) – 31-V-2005 1 and 7-VI-2006 2.
 3384. *Ancylis mediofasciana* (Clem.) – 28-V-2003 1.
 3460. *Cydia ingrata* (Heinr.) – 28-V-2003 1, 31-V-2005 1 and 14-VI-2005 1.
 3463. *Cydia populana* (Bsk.) – 27-VI-2004 2, 28-VI-2005 1 and 11-VII-2005 2.
 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.
 3480. *Cydia lautiuscula* (Heinr.) – 7-VI-2006 3.
 3502. *Croesia albicomana* (Clem.) – 21-VIII-2006 1.
 3506-3563. *Acleris* sp. – 7-VIII-2001 1 and 19-V-2004 1.
 3506. *Acleris macdunnoughi* Obr. – 25-IX-2001 1, 13-V-2003 1 and 28-V-2003 1.
 3514. *Acleris cervinana* (Fern.) – 23-IV-2003 1 and 31-V-2005 2.
 3520. *Acleris obligatoria* Park & Razowski – 13-V-2003 1, 1-V-2004 3, 20-V-2004 2 and 28-V-2004 1.
 3529. *Acleris oxycoccana* (Pack.) – 25-IX-2001 2.
 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.
 3537/3556. *Acleris maximana/nigrolineana* complex – 24-IV-2007 4.
 3540. *Acleris logiana* (Cl.) – 24-IV-2007 1.
 3549. *Acleris maccana* (Tr.) – 3-V-2001 1.
 3553. *Acleris bowmanana* (McD.) – 24-IV-2007 1.
 3556. *Acleris nigrolinea* (Rob.) – 3-V-2001 1 and 22-IX-2004 1.
 3557. *Acleris maximana* B. & Bsk. – 28-IV-2006 1.
 3580. *Decodes hororianus* (Wlsm.) – 14-IX-2001 1 and 22-IX-2004 1.

3589. *Anopina wellingtoniana* (Kft.) – 7-VI-2006 1.
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.
3625. *Argyrotaenia mariana* (Fern.) (Gray-banded Leafroller Moth) – 25-V-2001 1 and 26-V-2003 4.
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.
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.
3638. *Choristoneura fumiferana* (Clem.) (Spruce Budworm Moth) – 26B-VII-2009 1.
3648. *Archips argyrospila* (Wlk.) (Fruit-tree Leafroller Moth) – 11-VII-2005 1.
3658. *Archips purpurana* (Clem.) – 25-VII-2002 1 and 11-VII-2005 1.
3672. *Syndemis afflictana* (Wlk.) (Gray Leafroller Moth or Black-and-Gray Banded Leafroller Moth) – 22-V-2001 2 and 28-V-2003 2.
3682. *Clepsis persicana* (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.
3684. *Clepsis clemensiana* (Fern.) (Clemen's Clepsid Moth) – 26-VII-2001 1, 25-VII-2002 4, 26A-VII-2009 1, 26B-VII-2009 1 and 26C-VII-2009 1.
3688. *Ptycholoma peritana* (Clem.) (Garden Tortrix Moth) – 5-VII-2004 1, 11-VII-2005 1 and 26A-VII-2009 1.
3689. *Ptycholoma virescana* (Clem.) – 25-VII-2002 1.
3706. *Sparganothis xanthoides* (Wlk.) (Mosaic Sparganothis Moth) – 3-VII-2001 1, 27-VI-2004 1 and 13-VII-2004 1.
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.

COCHYLIDAE – Cochylid Moths

- Species indet. – 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 family 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.
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.
3796. *Phtheochroa* (*Hysterosia*) *waracana* (Kft.) – 25-VII-2002 1.
3858. *Cochylis* (*Hysterosia*) *nr voxcana* (Kft.) – 6-VI-2001 1, 11-VII-2005 1 and 14-VI-2005 1.

PYRALIDAE – Pyralid or Snout Moths

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.

4755. *Synclita oblitalis* (Wlk.) (Waterlily Leafcutter Moth) – 25-VII-2002 1 and 17-VIII-2004 1.
4773. *Petrophila kearfottalis* (B. & McD.) – 13-VII-2004 1, 26A-VII-2009 1, 26B-VII-2009 1 and 26C-VII-2009 1.
4922. *Cornifrons actualis* B. & McD. – 27-VI-2004 1.
4950. *Fumibotys fumalis* (Gn.) (Mint Root Borer Moth) – 6-IX-2003 1.
4951. *Perispasta caeculalis* Zell. (Titian Peale's Pyralid Moth) – 27-VI-2004 1, 14-VI-2005 1 and 7-VI-2006 1.
4953. *Phlyctaenia coronata* (Hufn.) (Crowned Phlyctaenia Moth) – 19-VI-2001 1 and 7-VI-2006 1.
4957. *Mutuuraia mysippusalis* (Wlk.) – 7-VI-2006 1.
4987. *Sitochroa chortalis* (Grt.) (*Sitochroa* Moth) – 22-V-2001 1.
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.
5032. *Pyrausta nicalis* (Grt.) – 3-VII-2001 1.
5074. *Pyrausta fodinalis* (Led.) – 26-VII-2001 1.
5099. *Udea itysalis* (Wlk.) – 7-VIII-2001 1.
5128. *Choristostigma plumbosignalis* (Fern.) – 26-VII-2001 1 and 11-VII-2005 2.
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.
5156. *Nomophila nearctica* Mun. (Celery Stalkworm Moth or Lucerne Moth) – 23-VIII-2001 1 and 6-IX-2003 1.
5277. *Herpetogramma thestealis* (Wlk.) – 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.
5299. *Acentria ephemerella* (Denis & Schiffermuller) (*A. nivea*) (Water Veneer Moth) – 21-VIII-2006 3.
- Donacaula* sp. – 26B-VII-2009 1. The specimen is currently with Edda Martinez who is doing a monograph of the genus.
- 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.
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.
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.
5391. *Chrysopteuchia 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.
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.
5403. *Agriphila vulgivagella* (Clem.) (Vagabond *Crambus* Moth) – 21-VIII-2006 1.

- 5410-5417. *Pediasia* sp. – 25-VII-2002 4, 27-VI-2004 1, 5-VII-2004 1 and 13-VII-2004 1. These could be either *Pediasia aridella edmontella* or *laciniella*.
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.
5417. *Pedisia dorsipunctella* (Kft.) – 3-VII-2001 2, 7-VIII-2001 1, 25-VII-2002 2, 3-VII-2003 1, 13-VII-2004 10 SR, 17-VIII-2004 2, 26A-VII-2009 1 and 26C-VII-2009 1.
5415. *Pediasia ericella* (B. & McD.) – 11-VII-2005 1.
- 5439b. *Thaumatopsis pexella coloradella* Kft. – 22-IX-2004 1.
5474. *Acigona comptulatis* (Hulst) (*Acigona* Moth) – 23-VIII-2001 1, 26A-VII-2009 2, 26B-VII-2009 1 and 26C-VII-2009 1.
5606. *Tetralopha asperatella* (Clem.) (Maple Webworm Moth) – 25-V-2004 1, 13-VII-2004 3, 11-VII-2005 1 and 7-VI-2006 2.
5655. *Acrobasis tricolorella* Grt.) (Tricolored *Acrobasis* Moth) – 27-VI-2004 1 and 11-VII-2005 1.
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.
5710. *Myelopsis minutularia* (Hulst) – 17-VIII-2004 1.
5721. *Apomyelois bistriatella* (Hulst) – 25-VII-2002 1? and 22-IX-2004 1.
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.
5799. *Nephoterix 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.
5812. *Telethusia ovalis* (Pack.) – 26B-VII-2009 1.
5829. *Pyla fusca* (Haw.) (Speckled Black *Pyla* Moth) – 14-IX-2001 1, 6-IX-2003 1 and 25-V-2004 1.
5918. *Hulstia undulatella* (Clem.) (Sugarbeet Crown Borer Moth) – 23-VIII-2001 1.
5946. *Phycitoides mucidellum* (Rag.) – 14-IX-2001 2, 25-IX-2001 1, 6-IX-2003 2 and 21-VIII-2006 1.
5968. *Zophodia grossulariella* (Hbn.) (*Z. convolutella*) (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.
5999. *Eulogia ochrifrontella* (Zell.) (Broad-banded *Eulogia* Moth) – 3-VII-2001 1, 26-VII-2001 1 and 13-VII-2004 1.
6038. *Anerastia lotella* (Hbn.) – 23-VIII-2001 1, 27-VI-2004 1 and 26B-VIII-2005 1.

PTEROPHORIDAE – Plume Moths

Species indet. – 7-VI-2006 1.

6205. *Hellinsia pectodactylus* (Staudinger) – 11-VII-2005 1.

6213. *Hellinsia lactodactylus* (Cham.) – 7-VI-2006 1.

THYATIRIDAE – Thyatirid Moths

6235. *Habrosyne scripta* (Gosse) (The Scribe or Lettered Habrosyne) – 7-VI-2006 1.
 6240. *Euthyatira pudens* (Gn.) (Dogwood Thyatirid) – 14-V-2001 1.
 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 – Hooktip Moths

6253. *Eudeilina herminiata* (Gn.) (Northern Eudeilina) – 31-V-2005 1.
 6255. *Oreta rosea* (Wlk.) (Rose Hooktip) – 13-VII-2004 1.

GEOMETRIDAE – Inchworm or Geometrid Moths

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.
 6279. *Macaria (Itame) occiduaria* (Pack.) (Western Sulphur) – 5-VII-2004 1, 28-VI-2005 1 and 11-VII-2005 1.
 6290. *Macaria (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.
 6292. *Macaria (Itame) exauspicata* (Wlk.) (Speckled Granite) – 11-VII-2005 2.
 6373. *Digrammia (Semiothisa) denticulata* (Grt.) (Striped Granite) – 25-V-2004 1.
 6394. *Digrammia rippertaria* (Dup.) (*Semiothisa hebetata*) – 14-VI-2005 1.
 6396. *Digrammia (Semiothisa) neptaria* (Gn.) – 9-VI-2004 1.
 6397. *Digrammia (Semiothisa) mellistrigata* (Grt.) – 3-VII-2003 1, 9-VI-2004 1 and 17-VIII-2004 1.
 6431. *Hesperumia sulphuraria* Pack. (Sulphur Moth) – 26-VII-2001 1 and 26B-VII-2009 1.
 6588. *Iridopsis larvaria* (Gn.) (Red-tinged Carpet or Bent-line Gray) – 14-VI-2005 1.
 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.
 6598. *Protoboarmia porcelaria* (Gn.) (Speckled Carpet) – 27-VI-2004 1 and 14-VI-2005 1.
 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.
 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.
 6654. *Hypagyrtis unipunctaria* (Haw.) (One-spotted Variant) – 3-VII-2001 1 and 11-VII-2005 1.
 6665. *Erranis tiliaria* (Harr.) (Linden Looper Moth) – 25-IX-2001 1, 22-IX-2004 1 and 13-IX-2005 3.
 6666. *Lomographa semiclarata* (Wlk.) – 22-V-2001 4 and 28-V-2003 1.
 6677. *Cabera erythemaria* Gn. (Yellow-dusted Cream Moth) – 14-VI-2005 1 and 28-VI-2005.
 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.

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.
6729. *Euchlaena johnsonaria* (Fitch) (Johnson's *Euchlaena*) – 13-VII-2004 1 and 11-VII-2005 1.
6734. *Euchlaena marginaria* (Minot) (Alberta Thorn) – 22-V-2001 3, 19-V-2004 1, 28-V-2004 1 and 9-VI-2004 1.
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.
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.
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.
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.
6817. *Selenia alciphearia* Wlk. (Brown-tipped Thorn or Northern *Selenia*) – 3-V-2001 2 and 19-V-2004 1.
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.
6819. *Metanema inatomaria* Gn. (Pale *Metanema*) – 3-VII-2001 1, 27-VI-2004 1, 31-V-2005 1 and 7-VI-2006 1.
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.
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 and 7-VI-2006 1.
6836. *Anagoga occiduaria* (Wlk.) (American Barred Umber) – 11-V-2001 1, 22-V-2001 2 and 28-V-2003 1.
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 and 14-VI-2005 1.
6838. *Probole amicaria* (H.-S.) (Friendly *Probole*) – 31-V-2005 1.
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 and 7-VI-2006 1.
6912. *Sicya macularia* (Harr.) (Pink-bordered Yellow or Two-pronged Looper) – 26-VII-2001 2 and 26B-VII-2009 1.
6954. *Synaxis jubararia* (Hulst) (October Thorn) – 14-IX-2001 1, 6-IX-2003 1, 11-IX-2004 1 and 13-IX-2005 1.
6963. *Tetracis crocallata* Gn. (Yellow Slant-line) – 19-VI-2001 1, 9-VI-2004 2, 31-V-2005 1, 14-VI-2005 1 and 7-VI-2006 1.
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.
7009. *Nematocampa resistaria* (H.-S.) (Horned Spanworm Moth) – 26A-VII-2009 1 and 26B-VII-2009 1.
7018. *Nemoria unitaria* (Pack.) – 3-VII-2003 1 and 11-VII-2005 2.
7058. *Synchlora aerata* (F.) (Wavy-lined Emerald) – 7-VI-2006 1 and 26A-VII-2009 2.
7125. *Idaea rotundopennata* (Pack.) – 27-VI-2004 1 and 7-VI-2006 1.

7048. *Nemoria mimosaria* (Gn.) – 31-V-2005 1.
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.
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.
7166. *Scopula frigidaria* Mösch. (Frigid Wave) – 28-VI-2005 1.
7169. *Scopula inductata* Gn. (Soft-lined Wave) – 21-VIII-2006 1.
7182. *Dysstroma citrata* (L.) – 23-VIII-2001 1, 14-IX-2001 1, 17-VIII-2004 1 and 21-VIII-2006 1.
7189. *Dysstroma hersiliata* (Gn.) – 5-VII-2004 1.
7199. *Eulithis propulsata* (Wlk.) (Barred Yellow or Currant Eulithis) – 26C-VII-2009 1.
7201. *Eulithis testata* (L.) (Chevron Moth) – 21-VIII-2006 1.
7207. *Eulithis xyliina* (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.
7213. *Ecliptopera silaceata* (D. & S.) (Small Phoenix) – 27-VI-2004 1.
7229. *Hydriomena perfracta* Swett (Marbled Carpet) – 22-V-2001 1, 31-V-2005 1 and 7-VI-2006 1.
7313. *Spargania luctuata* (D. & S.) (White-barred Black) – 13-VII-2004 1.
7316. *Perizoma basaliata* (Wlk.) (Twin-spot Wave) – 26A-VII-2009 1.
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.
7388. *Xanthorhoe ferrugata* (Cl.) (Red Twin-spot) – 3-VII-2001 1.
7394. *Epirrhoe alternata* (Müller) (White-banded Toothed Carpet) – 25-VII-2002 1, 11-VII-2005 1 and 7-VI-2006 2.
- 7399a. *Euphyia intermediata* (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.
7408. *Zenophleps alpinata* Cass. – 21-VIII-2006 1.
7437. *Operophtera bruceata* (Hulst) (Bruce Spanworm) – 10-X-2005 2.
7440. *Eubaphe mendica* (Wlk.) (The Beggar) – 3-VII-2001 2, 5-VII-2004 1 and 13-VII-2004 1.
7445. *Horisme intestinata* (Gn.) (Many-lined Pug) – 6-VI-2001 1, 19-VI-2001 1, 3-VII-2001 1 and 14-VI-2005 1.
7459. *Eupithecia columbiata* (Dyar) – 28-V-2003 2.
7487. *Eupithecia subfuscata* (Haw.) – 9-VI-2004 2, 14-VI-2005 1 and 7-VI-2006 4.
7524. *Eupithecia cemicifugata* Pears. – 14-VI-2005 1.
7538. *Eupithecia gelidata* Mösch. – 7-VI-2006 1
7564. *Eupithecia stellata* (Hulst) (Stellate Pug) – 25-VII-2002 1, 17-VIII-2004 2, 26B-VIII-2005 1 and 7-VI-2006 5.
7605. *Eupithecia ravocostaliata* Pack. (Great Variegated Pug) – 28-V-2003 2.
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 and 7-VI-2006 1.

URANIIDAE – Uraniid Moths

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

LASIOCAMPIDAE – Tent Caterpillar or Lappet Moths

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 and 7-VI-2006 1.
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).
7702. *Malacosoma californicum* (Pack.) (Western Tent Caterpillar) – 11-VII-2005 1.

SATURNIDAE – Large Silkworm Moths

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

SPHINGIDAE – Sphinx Moths

7803. *Sphinx vashti* Stkr. (Vashti or Snowberry Sphinx) – 22-V-2001 3, 19-V-2004 2, 25-V-2004 3, 2-VI-2004 1 and 27-VI-2004 1 SR.
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.
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 and 13-VII-2004 1 SR.
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.
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.
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

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.
7898. *Clostera strigosa* (Grt.) (Striped Chocolate-tip) – 28-V-2003 1 and 25-V-2004 1.
7901. *Clostera apicalis* (Wlk.) (Common Chocolate-tip or Red-marked Tentmaker Moth) – 22-V-2001 1 and 25-V-2004 1.
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.

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.
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 and 7-VI-2006 1.
7926. *Notodonta scitipennis* Wlk. (Base-streaked Prominent) – 3-VII-2001 1, 13-VII-2004 1 and 31-V-2005 1. Now regarded as synonymous with the Old World *Notodonta torva* (Hübner).
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.
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.
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.
7939. *Furcula occidentalis* (Lint.) (Willow Kitten) – 2-V-2004 1.
7940. *Furcula scolopendrina* (Bdv.) (Poplar Kitten) – 7-VI-2006 1.
7941. *Furcula modesta* (Hudson) (Modest Kitten) – 3-VII-2001 1, 7-VIII-2001 1, 26-V-2002 1 and 27-VI-2004 1.
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.
8011. *Schizura leptinoides* (Grt.) (Black-blotched Schizura) – 13-VII-2004 1.
8012. *Oligocentria semirufescens* (Wlk.) (Red-washed Prominent) – 28-VI-2005 1.

ARCTIIDAE – Tiger Moths and others

8051. *Crambidia casta* (Pack.) (Pearly-winged Lichen Moth) – 23-VIII-2001 1, 31-VIII-2004 1 and 21-VIII-2006 1.
8098. *Clemensia albata* Pack. (Pearly-winged Lichen Moth) – 13-VII-2004 1.
8111. *Haploa lecontei* (Guér.-Méneville) (Leconte's Haploa) – 14-VI-2005 1 and 21-V-2005 1.
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.
8134. *Hyphantria (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 and 7-VI-2006 2.
8136. *Spilosoma dubia* (Wlk.) (Dubious Tiger Moth) – 26B-VII-2009 1.
8137. *Spilosoma virginica* (F.) (Virginian Tiger Moth or Red-marked Tentmaker) – 28-V-2003 1 and 25-V-2004 1.
8140. *Hyphantria cunea* (Drury) (Fall Webworm Moth) – 6-VI-2001 2, 19-VI-2001 1 and 11-VI-2003 1.
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 and 7-VI-2006 1.

8162. *Platartia parthenos* (Harr.) (St. Lawrence Tiger Moth) – 8-VI-2004 1 (3 SR), 27-VI-2004 9 SR and 13-VII-2004 3 SR.
8175. *Grammia virguncula* (W. Kirby.) (Little Virgin Moth) – 27-VI-2004 1 and 13-VII-2004 1.
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.
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.
8214. *Lophocampa maculata* Harr. (Spotted Tiger Moth) – 31-V-2005 1, 14-VI-2005 1, 28-VI-2005 1 and 7-VI-2006 1.
8267. *Ciseps fulvicollis* (Hbn.) (Yellow-collared Scape Moth) – 25-VII-2002 1 and 26B-VII-2009 1.

LYMANTRIIDAE – Tussock Moths

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.

NOCTUIDAE – Owlets and Noctuid Moths

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.
8323. *Idia aemula* Hbn. (Powdered Snout) – 13-VII-2004 2 and 11-VII-2005 1.
8354. *Zanclognatha lotalba* (Sm.) (Canadian Zanclognatha) – 3-VII-2001 1, 26-VII-2001 2, 11-VII-2005 2 and 26B-VII-2009 1.
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, 26A-VII-2009 1 and 26C-VII-2009 1.
8359. *Macrochilo bivittata* (Grt.) – 25-VII-2002 2 and 13-VII-2004 1.
8362. *Phalaenostola metonalis* (Wlk.) (Pale Phalaenostola or Tufted Snout) – 26A-VII-2009 1 and 26C-VII-2009 1.
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.
8404. *Rivula propinquialis* Gn. (Spotted Grass Moth) – 3-VII-2001 1, 26A-VII-2009 1 and 26C-VII-2009 1.
8413. *Mycterophora inexplicata* (Wlk.) (Pale-edged Snout Moth) – 26 A-VII-2009 1.
8421. *Hypenodes fractilinea* (Sm.) (Broken-line Hypenodes) – 13-VII-2004 1 and 11-VII-2005 3.
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.
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.
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 and 31-V-2005 1.

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.
8805. *Catocala unijuga* Wlk. (Once-married Underwing) – 7-VIII-2001 1, 25-VII-2002 1, 6-IX-2003 2 and 31-VIII-2004 1.
8821. *Catocala semirelictata* Grt. (Semirelict Underwing) – 23-VIII-2001 1 and 6-IX-2003 1.
8867. *Catocala blandula* Hulst (Charming Underwing) – 26-VII-2001 4 and 17-VIII-2004 2 (3 SR).
8881. *Abrostola 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.
8896. *Diachrysia aeroides* (Grt.) (Dark-spotted Looper Moth) – 11-VII-2005 1 and 26B-VII-2009 1.
8909. *Autographa rubida* Ottol. (Rubida Looper Moth) – 7-VI-2006 1.
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.
8923. *Autographa ampla* (Wlk.) (Broken-banded Y or Large Looper Moth) – 11-VII-2005 1.
8924. *Anagrapha falcifera* (Kby.) (Celery Looper Moth) – 25-IX-2001 2 and 28-V-2003 1.
8950. *Plusia putnami* Grt. (Putnam's Looper Moth) – 7-VIII-2001 1.
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.
9048. *Lithacodia albidula* (Gn.) (Common Midget) – 6-VI-2001 1, 3-VII-2003 1, 26A-VII-2009 1 and 26C-VII-2009 1.
9053. *Pseudostrotia carneola* (Gn.) (Pink-barred Lithacodia) – 9-VI-2004 2 and 7-VI-2006 1.
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 and 7-VI-2006 1.
9206. *Acronicta vulpina* (Grt.) (Poplar or Vulpina Dagger Moth) – 28-V-2003 2, 3-VII-2003 1 and 14-VI-2005 1.
9212. *Acronicta grisea* (Wlk.) (Gray Dagger Moth) – 27-VI-2004 2, 31-V-2005 1, 28-VI-2005 1 and 7-VI-2006 1.
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.
9228. *Acronicta furcifera* Gn. (incl. *A. hasta* Gn.) (Speared Dagger Moth) – 22-V-2001 4, 19-V-2004 2, 11-V-2005 1 and 7-VI-2006 1.
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.
9257. *Acronicta impleta* Wlk. (Yellow-haired Dagger Moth) – 6-VI-2001 1 and 25-V-2004 1.
9261. *Acronicta impressa* Wlk.) (Willow Dagger Moth) – 11-VII-2005 1 and 28-IV-2006 1.
9280. *Simyra henrici* (Grt.) (Henry's Marsh Moth) – 22-V-2002 1.

9348. *Apamea amputatrix* (Fitch) (Northern Quaker or Yellow-headed Cutworm Moth) – 26-VII-2001 1 and 7-VI-2006 1.
9353. *Apamea inordinata* (Morr.) (Montana Quaker) – 9-VI-2004 1.
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.
9362. *Apamea remissa indocilis* (Wlk.) (Ignorant *Apamea* or Broken-banded Quaker) – 23-VIII-2001 2.
9364. *Apamea sordens* (Hufn.) (was *A. 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.
9365. *Apamea scoparia* Mikkola, Mustelin & Laf. – 3-VII-2003 1, 27-VI-2004 1 and 5-VII-2004 2.
- 9367a. *Apamea cogitata* (Sm.) (Ruby Quaker) – 17-VIII-2004 1, 28-VI-2005 1 and 26B-VII-2009 1.
9369. *Apamea inficita* (Wlk.) (Inficita Quaker) – 26-VII-2001 1, 7-VIII-2001 1 and 25-VII-2002 1.
9374. *Apamea niveivenosa* (Grt.) (White-veined Quaker) – 26-VII-2001 1, 5-VII-2004 1, 13-VII-2004 1 and 26A-VII-2009 1.
9382. *Apamea devastator* (Brace) (Glassy Cutworm Moth) – 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.
9391. *Luperina passer* (Gn.) (Dock Rustic) – 25-VIII-2002 1.
9396. *Eremobina claudens* (Wlk.) (Alberta Quaker) – 23-VIII-2001 1.
- 9412.1. *Oligia subjuncta* (Sm.) (Short-cloaked Quaker) – 13-VII-2004 2.
9417. *Oligia egens* (Wlk.) (Neomogen's Quaker) – 26-VII-2001 2, 7-VIII-2001 3, 23-VIII-2001 1 and 17-VIII-2004 2.
9419. *Oligia mactata* (Gn.) (Prairie Quaker) – 23-VIII-2001 2 and 26B-VIII-2005 2 and 21-VIII-2006 2.
9420. *Oligia illocata* (Wlk.) (Wandering Quaker) – 23-VIII-2001 3.
9431. *Parastichtis suspecta* (Hbn.) (Mottled Quaker) – 3-VII-2001 1 and 26-VII-2001 3.
9434. *Spartiniphaga includens* (Wlk.) (Silver-C Borer) – 25-VII-2002 2.
9437. *Chortodes inquinata* (Gn.) (Sordid Wainscot) – 7-VIII-2001 1.
9440. *Chortodes rufostrigata* (Pack.) (Brown-streaked Rustic)- 27-VI-2004 1, 13-VII-2004 1.
9450. *Archanara subflava* (Grt.) (Sublava Sedge Borer) – 9-VIII-2001 2, 17-VIII-2004 1 and 26B-VIII-2005 2.
9453. *Celaena reniformis* (Grt.) (Kidney-spotted Rustic) – 22-IX-2004 1 and 26B-VIII-2005 1.
9457. *Amphipoea americana* (Speyer) or 9456 *A. interoceanica* (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.
9472. *Papaipema harrisii* (Grt.) (Cow Parsnip Borer Moth) – 26-VIII-2005 1, 21-VIII-2006 1.
9515. *Hydraecia perobliqua* Harv. (Oblique Rustic) – 23-VIII-2001 1, 17-VIII-2004 1 and 22-IX-2004 2.

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.
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) and 21-VIII-2006 1.
9550. *Enargia infumata* (Grt.) (Lesser Angle-striped Sallow) – 25-VII-2002 1, 13-VII-2004 2, 17-VIII-2004 1, 11-VII-2005 1 and 26B-VIII-2005 1.
9555. *Ipimorpha pleonectusa* Grt. (Even-lined Sallow) – 17-VIII-2004 1 and 21-VIII-2006 1.
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.
9579. *Hyppa contrasta* McD. (H. nr. *xylinoides*) (Common Hyppa or Cranberry Cutworm) – 7-VI-2006 1.
9647. *Proxenus miranda* (Grt.) (Glistening Rustic) – 9-VI-2004 1, 27-VI-2004 1 and 31-V-2005 1.
9649. *Proxenus mendosa* McD. – 22-V-2001 1, 7-VIII-2001 1 and 28-V-2003 1.
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.
- 9681.1. *Elaphria alapallida* (Pogue & Sullivan) (*E. festivoides* (Gn.) (Festive Midget) – 28-V-2003 2, 9-VI-2004 4, 31-V-2005 3 and 7-VI-2006 1.
9873. *Xylena nupera* (Lint.) (American Swordgrass) – 10-X-2005 2.
9874. *Xylena curvimacula* (Morr.) (Dot and Dask 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.
9875. *Xylena thoracica* (Putnam-Cramer) (Gray Swordgrass Moth) – 2-V-2004 1 and 24-IV-2007 1.
9876. *Xylena cineritia* (Grt.) (Western Swordgrass Moth) – 10-X-2005 1 and 21-IV-2006 1.
9878. *Lithomoia germana* (Morr.) (American Peasant) – 10-IX-2001 1, 31-VIII-2004 1 and 22-IX-2004 1.
9881. *Homoglaea hircina* Morr. (Goat Sallow) – 28-IX-2001 1, 10-X-2005 1 and 24-IV-2007 1.
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.
9888. *Lithophane innominata* (Sm.) (Nameless Pinion) – 26-V-2002 1 and 2-V-2004 1.
9891. *Lithophane amanda* (Sm.) (Distant Pinion) – 10-X-2005 1.
9935. *Eupsilia tristigmata* (Grt.) (Three-spotted Sallow) – 23-IV-2003 1.
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.
9960. *Sunira verberata* (Sm.) (Western Sallow) – 25-IX-2001 1, 6-IX-2003 3.

9962. *Anathix puta* (Grt. & Rob.) (Putta 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.
9965. *Xanthia tatago* Laf. & Mik. (Pink-barred Sallow) – 23-VIII-2001 1, 14-IX-2001 1, 25-IX-2001 1, 6-IX-2003 1 and 22-IX-2004 1.
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.
- 9987 or 9988. *Mniotype ducta* (Grt.) or *M. tenera* (Sm.) – 9-VI-2004 1 and 7-VI-2006 1.
9990. *Sutyna profunda* (Sm.) (Profound Sallow) – 13-IX-2005 1.
9993. *Brachylomia populi* (Stkr.) (Cloaked Peasant) – 23-VIII-2001 2, 17-VIII-2004 1 and 21-VIII-2006 1.
9998. *Brachylomia algens* (Grt.) (Willow Peasant) – 31-VIII-2004 1.
10028. *Pleromelloida conserta* (Grt.) (*P. obliquata* (Sm.) (Oblique Rover) – 23-IV-2003 1 and 2-V-2004 1 and 28-IV-2006 1.
10065. *Homohadena infixata* (Wlk.) (Broad-lined Sallow) – 5-VII-2001 1, 26-VII-2001 2, 25-VII-2002 1 and 11-VII-2005 1.
10067. *Adita chionanthi* (J.E. Smith) (Fringed Tree Sallow) – 31-VIII-2004 1.
10126. *Oncocnemis cibalis* Grt. (Delicate Beauty) – 22-IX-2004 1.
10140. *Oncocnemis poliochroa* Hamp. (Gray Beauty) – 23-VIII-2001 1 and 26B-VIII-2005 1.
10194. *Cucullia intermedia* Speyer – 19-V-2004 2, 25-V-2004 1 and 31-V-2005 1 and 7-VI-2006 1.
10223. *Discestra trifolii* (Hufn.) (Clover Cutworm Moth, The Nutmeg) – 28-V-2003 2, 19-V-2004 1 and 2-VI-2004 1.
10224. *Discestra mutata* (Dod) (The Changeling) – 28-V-2003 1.
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.
10265. *Sideridis rosea* (Harv.) (Rosy Penman, The Rosy Wing) – 19-V-2004 1 and 2-VI-2004 1 and 7-VI-2006 1.
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.
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.
10280. *Polia purpurissata* (Grt.) (Purple Arches) – 26B-VII-2009 1 and 26C-VII-2009 1.
10288. *Polia detracta* (Wlk.) (Dingy Arches) – 19-VI-2001 2, 9-VI-2004 2, 27-VI-2004 1 and 14-VI-2005 1.
10292. *Melanchra adjuncta* (Bdv.) (Hitched Arches) – 3-VII-2001 1.
10293. *Melanchra picta* (Harr.) (Painted Arches) – 26B-VII-2009 1.
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.
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 and 7-VI-2006 1.
10301. *Spiramater lutra* (Gn.) – 3-VII-2001 2.
10305. *Trichordestra prob dodii* (Sm.) (Dod's Arches) – 6-VI-2001 1.
10368. *Lacinipolia meditata* (Grt.) (The Thinker or Pink-backed Cutworm Moth) – 26B-VII-2009 1 and 26C-VII-2009 1.

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.
10372. *Lacinipolia anguina* (Grt.) (Snaky Arches) – 2-V-2004 1.
10394. *Lacinipolia vicina* (Grt.) (Small Gray Arches) – 3-VII-2001 2, 27-V-2004 1, 26B-VII-2009 1 and 26C-VII-2009 1.
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.
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.
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.
10428. *Dargida procincta* (Grt.) (The Girdler) – 10-X-2005 1.
10431. *Faronta diffusa* (Wlk.) (Wheat Head Armyworm Moth) – 3-VII-2001 1, 9-VI-2004 1 and 31-V-2005 2.
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.
10446. *Leucania multilinea* Wlk. (Many-lined Wainscot) – 26-VII-2001 1 and 11-VII-2005 1.
10447. *Leucania commoides* Gn. (Comma Wainscot) – 26-VII-2001 2 and 17-VIII-2004 1 and 26A-VII-2009 1.
10449. *Leucania insueta* (Gn.) – 26-VII-2001 1.
10471. *Stretchia plusiaeformis* Hy. Edw. (Gray Spectacles) – 3-V-2001 2 and 23-IV-2003 1 and 28-IV-2006 1.
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.
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.
10493. *Orthosia segregata* f. *negussa* (Sm.) – 3-V-2001 1, 22-V-2001 1, 23-IV-2003 1 and 8-V-2004 2.
10495. *Orthosia hibisci* (Gn.) – 23-IV-2003 1 and 24-IV-2007 1.
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).
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.
10530. *Anhimella contrahens* (Wlk.) (Brown Stylus) – 26C-VII-2009 1.
10547. *Protorthodes utahensis* (Sm.) – 17-VIII-2004 1.
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) and 2-VI-2004 1 (4 SR).
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.

10651. *Agrotis venerabilis* Wlk. (Venerable Dart) – 23-VIII-2001 2, 31-VIII-2004 1, 11-IX-2004 1 and 26B-VIII-2005 1.
10658. *Agrotis stigmata* Morr. – 22-V-2001 1, 6-VI-2001 1, 11-VI-2003 1 and 25-V-2004 1.
10652. *Agrotis vancouverensis* 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.
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.
10676. *Feltia herilis* (Grt.) (Master's Dart) – 7-VIII-2001 1, 25-VII-2002 1 and 26 C-VII-2009 1.
- 10701.1. *Euxoa adumbrata* (Ev.) – 5-VII-2004 1.
10702. *Euxoa divergens* (Wlk.) (Divergent Dart) – 17-VI-2004 1, 5-VII-2004 1 and 13-VII-2004 1.
10705. *Euxoa messoria* (Harr.) (Reaper Dart or Dark-sided Cutworm) – 23-VIII-2001 1.
10723. *Euxoa tristicula* (Morr.) (Early Cutworm Moth) – 26-VII-2001 1.
10738. *Euxoa mimallonis* (Grt.) (Ruddy Dart) – 11-IX-2004 2, 26B-VIII-2005 2 and 21-VIII-2006 1.
10749. *Euxoa intrita* (Morr.) (Tippling Dart) – 17-VIII-2004 2 and 31-VIII-2004 1.
10755. *Euxoa declarata* (Wlk.) (Clear Dart) – 23-VIII-2001 3, 31-VIII-2004 2 and 26B-VIII-2005 3.
10756. *Euxoa campestris* (Grt.) (Flat Dart) – 11-IX-2004 1.
10798. *Euxoa basalis* (Grt.) (Pale-based Dart) – 26-VII-2001 1, 25-VII-2002 1, 27-VIII-2004 1 and 21-VIII-2006 1.
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.
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.
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.
10836. *Euxoa dargo* (Stkr.) (Dargo Dart) – 23-VIII-2001 1 and 25-VII-2002 1.
10838. *Euxoa detersa* (Wlk.) (Rubbed Dart) – 23-VIII-2001 2, 17-VIII-2004 1 and 21-VIII-2006 1.
10852. *Euxoa auripennis* Laf. or 10854 *E. servita* (Sm.) (Servita Dart) – 23-VIII-2001 1.
10854. *Euxoa servita* (Sm.) (Servita Dart) – 26A-VII-2009 1 and 26B-VII-2009 1.
10861. *Euxoa ridingsiana* (Grt.) (Riding's Dart) – 7-VIII-2001 1 and 23-VIII-2001 1.
- 10861.1. *Euxoa maimes* (Sm.) (Maimes Dart) – 23-VIII-2001 3.
10910. *Anicla* (*Euagrotis*) *tepperi* (Sm.) (Black-girdled Dart) – 9-VI-2004 1 and 26B-VII-2009 1.
10917. *Diarsia rubifera* (Grt.) (Rubifera Dart) – 26-VII-2001 5 and 7-VIII-2001 2.
10923. *Actebia balanitis* (Grt.) (Bracketed Dart) – 3-VII-2003 1 and 31-VIII-2004 1.
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.

10928. *Graphiphora augur* (F.) (Soothsayer Dart) – 2-VII-2001 2, 13-VII-2004 1 and 11-VII-2005 1.
10929. *Eurois occulta* (L.) (Great Gray Dart) – 25-VII-2002 1
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.
10942. *Xestia c-nigrum* (L.) (Lesser Black-letter Dart) – 3-VII-2001 1.
10943. *Xestia normaniana* (Grt.) (Norman's Dart) – 26-VII-2001 3, 26A-VII-2009 1, 26B-VII-2009 1 and 26C-VII-2009 1.
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.
10951. *Pseudohermionassa tenuicula* (Morr.) (Hairpin Dart) – 26-VII-2001 2, 25-VII-2002 1, 26B-VII-2009 1 and 26C-VII-2009 1.
10954. *Agnorisma bugrai* (Koçak) (*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.
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.
10996. *Cerastis salicarum* (Wlk.) (Willow Dart) – 28-IV-2006 1.
11000. *Anaplectoides prasina* (D. & S.) (Green Arches) – 3-VII-2001 1.
11001. *Anaplectoides pressus* (Grt.) (Dappled Dart) – 3-VII-2001 1 and 3-VII-2003 1.
11003. *Chersotis juncta* (Grt.) (Scribbled Dart) – 11-VII-2005 1.
11004. *Protolampra rufipectus* (Morr.) (Red-breasted Dart) – 26-VII-2001 4, 25-VII-2002 1 and 21-VIII-2006 1.
11008. *Euretagrotis perattenta* (Grt.) – 3-VII-2001 1.
11012. *Cryptocala acadensis* (Bethune) (Catocaline Dart) – 26-VII-2001 1 and 26B-VII-2009 1.
11040. *Abagrotis reedi* Buckett (Reed's Dart) – 26-VII-2001 1 and 6-IX-2003 1.
11041. *Abagrotis placida* (Grt.) group – 31-VIII-2004 1 and 26B-VIII-2005 5.
- 11041.1. *Abagrotis hermina* Laf. – 23-VIII-2001 3, 14-IX-2001 1 and 6-IX-2003 1.
11043. *Abagrotis cupida* (Grt.) – 6-IX-2003 1 and 11-IX-2004 1.
11051. *Ufeus satyricus* Grt. (Satyr Dart) – 22-IX-2004 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 (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

The list for 2001 (Bird 2002) contained 251 species, Bird (2003) had 260, Bird (2004) had 297, Bird (2005) had 360, Bird (2006) had 406, Bird (2007) had 439, Bird (2008) had 441; Bird (2009) had 446, while the present report, with revisions brings the

total up to 457. 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 14 major areas involved in the present study, nine species of moths were found only at RS - *Denisia haydenella* (Cham.), *Coleophora maritella* McD., *Celpha cespitana* (Hbn.), *Herpetogramma abdominalis* (Zell.), *Hellinsia lactodactylus* (Cham.), *Nemoria mimosaria* (Gn.), *Eupithecia gelidata* Mösch., *Protorthodes utahensis* (Sm.) and *Euxoa dargo* (Stkr.).

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Felix Sperling and Danny Shpeley 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.

USEFUL BOOKS ON MOTHS

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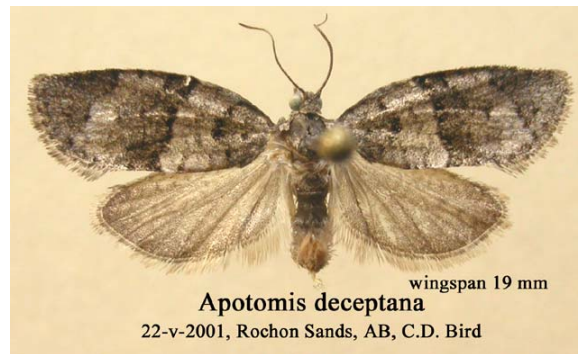
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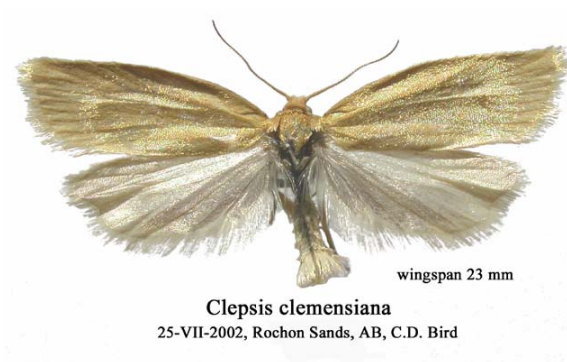
Plate 1. Some moths found in Rochon Sands Provincial Park.



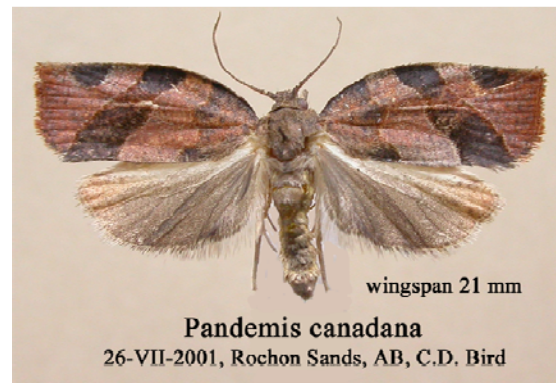
A form of *Acleris obligatoria*, wingspan 17 mm: ALBERTA, Rochon Sands Provincial Park, 13-V-2003, C.D. Bird, BIRD 999, C.D. Bird image



wingspan 19 mm
Apotomis deceptana
22-v-2001, Rochon Sands, AB, C.D. Bird



wingspan 23 mm
Clepsis clemensiana
25-VII-2002, Rochon Sands, AB, C.D. Bird



wingspan 21 mm
Pandemis canadana
26-VII-2001, Rochon Sands, AB, C.D. Bird



Phaneta lapidana, wingspan 20 mm: ALBERTA, Rochon Sands Provincial Park, 14-IX-2001, C.D. Bird, BIRD 984, C.D. Bird image



wingspan 18 mm
Ypsolopha canariella
7-VIII-2001, Rochon Sands, AB, C.D. Bird

APPENDIX

Collection dates, sites and other details

- 5 April 2001 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 3 May 2001 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m. With Ted Pike.
- 6 June 2001 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 3 July 2001 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 26 July 2001 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 7 August 2001 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m. Lots of midges and corixids.
- 23 August 2001 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 10 September 2001 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 14 September 2001 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 25 September 2001 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 26 May 2002 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 1 June 2002 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 25 July 2002 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m. Lots of little, black beetles and corixids.
- 23 April 2003 – UV, chokecherry/saskatoon/aspen, 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.
- 13 September 2005 – UV, chokecherry/saskatoon/aspen, Group Campground area, 52.46, 112.88, 720 m.
- 10 October 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.