

LEPIDOPTERA OF A SEMI-URBAN RESIDENCE IN ERSKINE, ALBERTA, 2000-2011

Charles Durham Bird
Box 22, Erskine, AB, Canada, T0C 1G0
8 March 2012

The present paper incorporates the information in last year's report along with that gathered in 2011. It also includes a number of redeterminations and additions to the information in the earlier reports. Further, it follows the up-to-date order and taxonomy of Pohl et al. (2010), rather than that of Hodges et al. (1983).



Backyard with aspen trees, 18 June 2004

INTRODUCTION

The author and his wife purchased the present 1.1 acre, 2 lot site in 1992. The property was developed and the house was built around 1978. The address of the house is Lot 5, Maple Close. The coordinates are 52.322, 112.883 and the elevation is 830 m. Erskine is a small village with a population of less than 500 individuals.

VEGETATION

The property includes on its northwest side, and is bordered on the north, by an area of aspen woods with some balsam poplar. It is on the edge of these woods that most of the moth trapping has occurred. These woods are a residual stand that apparently have been present for over 100 years.

Associated with the trees are chokecherry, saskatoon, rose, red osier dogwood and raspberry. This stand and its associated native species provide food plants for many species of moths.

Many trees and shrubs have been planted on the property. These include Manitoba Maple, White Spruce, Colorado Blue Spruce, Black Spruce, May Day trees, Apples, Crabapples, plums, cherries, Mugho Pine, saskatoon, roses, spiraea, lilac, black currant, elderberry, Nanking cherries and honeyberries. Neighboring properties have juniper, silver willow, birch and other trees and shrubs. The garden on the property has rhubarb and is regularly planted with potatoes, beans, carrots and spinach. The presence of so many non-native plants provide food sources for a wide range of moths not normally found in native areas.



The garden, 17 Jul 2008.

COLLECTING METHODS

Though some collecting was done during the day with an insect net, most was done at night with an ultraviolet (UV) trap powered either by an electric outlet or by a 12 volt battery. Some ethyl acetate was added as a killing agent to the bucket below the UV tube. The UV trap was set out at dusk and was brought in at dawn. In most cases, the collected specimens were sorted and spread/mounted within a day.

SPECIMEN DISPOSITION

All specimens collected by the writer presently reside in his collection but most will eventually go to the University of Alberta Strickland Museum (UASM), and some will be deposited in the Canadian National Collection (CNC) in Ottawa and the Northern Forest Research Centre (NFRC) in Edmonton. All

specimens have been databased and the information on verified material can be viewed at <http://www.entomology.ualberta.ca/searching.php>.

THE FOLLOWING CHECKLIST

Pohl et al (2010) have put together an up-to-date annotated list of the Lepidoptera of Alberta. They include 2367 species, many more than those mentioned by Bowman (1951). This list incorporates recent changes in taxonomy of all groups according to various literature sources, including those listed for the Noctuoidea by Lafontaine & Schmidt (2010). In previous reports, the order and terminology, were that of the "Check List of the Lepidoptera of America North of Mexico" (1983) edited by R.W. Hodges. The species order and taxonomy in this report is that of Pohl et al (2010) followed by that in Hodges (1983). Common names are mentioned in those cases where such names are known.

While most of the larger (macromoths) are relatively well known, the same cannot be said for many of the smaller (micromoths) ones. Identifications, especially of the latter, can be difficult or are at present impossible, until such time as revisionary studies are made. Also, genitalic dissection and examination is necessary for positive identification in some groups. For these reasons, some of the determinations found herein should be regarded as tentative. The scientific names of the species are followed by the day-month-year of the collection and the number of individuals mounted. Common names are mentioned in those cases where such names are known.

HEPIALIDAE – Ghost Moths

- 5. *Gazorycta novigannus* (B. & Benj.) (29. *Gazorycta novigannus* (B. & Benj.)) (Novigannus Ghost Moth) – 22-VIII-2000 1, 14-IX-2000 1, 28-VIII-2001 1, 8-IX-2002 2, 31-VIII-2003 1, 10-IX-2003 1 SR, 4-IX-2004 1, 13C-VIII-2005 1, 24-IX-2009 1 and 9-IX-2011 1.
- 8. *Sthenopis purpurascens* (Pack.) (19. *Sthenopis purpurascens* (Pack.)) (Large Ghost Moth) – 20-VII-2002 1 and 18-VII-2007 2.

TINEIDAE – Fungus Moths

Tineidae, Tineinae

- 44. *Tinea irrepta* Braun (399. *Tinea irrepta* Braun) – 1-VIII-2000 2, 6-VII-2001 1, 21-VIII-2001 1, 22-VI-2002 1, 3-VII-2002 6, 20-VII-2002 1, 5-VIII-2002 1, 24-VI-2003 1, 30-VI-2003 1, 14-VII-2003 1, 28-VII-2003 1, 20-VI-2004 2, 29-VI-2004 2, 28-VII-2004 1, 18-VIII-2004 1, 21-IX-2004 3, 30-V-2005 1, 16C-VI-2005 3, 24-VI-2005 1, 1-VII-2005 1, 17-VII-2005 2, 22-VII-2005 1, 29-VII-2005 1, 18-VII-2007 1, 4-VIII-2008 1, 4-VI-2011 1, 22-VI-2011 1, 27-VI-2011 1, 23-VII-2011 1 and 16-VIII-2011 1.
- 47. *Niditinea orleansella* (Cham.) (412. *Niditinea orleansella* (Cham.)) – 29-IX-2008 1.
- 49. *Monopis laevigella* (D. & S.) (Not in Hodges) – 14-VI-2001 1, 8-VI-2004 1 and 20-VI-2004 1.
- 51. *Monopis spilotella* Teng. (421. *Monopis spilotella* Tengström) – 26-VII-2000 1, 1-VIII-2000 1, 25-VIII-2000 1, 25-VIII-2001 1, 22-VI-2002 1, 3-VII-2002 1, 28-VII-2003 1, 10-VII-2004 2, 6-VIII-2004 2, 6-VIII-2004 1, 20-V-2005 2, 17-VII-2005 3, 13C-VIII-2005 2, 18-VII-2007 1, 12-VII-2008 2, 24-VII-2008 1, 20VI-2009 1, 10-VIII-2010 2 and 27-VI-2011 1.

PSYCHIDAE – Bag Worms

Psychidae, Taleporiinae

56. *Dahlica triquetrella* (Hbn.) (436. *Dahlica triquetrella* (Hbn.)) (Bag Worm) – 22-IV-2011 photo.

GRACILLARIIDAE – Gracillariid Moths

Gracillariidae, Gracillariinae

- 66. *Caloptilia alnivorella* (Cham.) (587. *Caloptilia alnivorella* (Cham.)) (Alder Leafminer) – 1-VI-2002 1.
- 67. *Caloptilia anthobaphes* (Meyr.) (589. *Caloptilia anthobaphes* (Meyr.)) – 30-V-2005 1, 2-VI-2006 1 and 4-VIII-2008 1.
- 68. *Caloptilia betulivora* McD. (594.1. *Caloptilia betulivora* McD.) – 30-IV-2004 1, 3-VII-2008 1 and 23-IX-2011 1.
- 76. *Caloptilia stigmatella* (F.) (639. *Caloptilia stigmatella* (F.)) – 10-VII-2004 1, 1-V-2007 1, 3-VII-2008 1, 25-IX-2010 1 and 9-X-2010 1.
- 82. *Parornis conspicuella* (Dietz) (669. *Parornix conspicuella* (Dietz)) – 30-VII-2002 2 and 6-VIII-2004 1. *Phyllonorycter* sp. (*Phyllonorycter* sp.) (possibly *P. tremuloidella* (Braun)) – 16-V-2005 1.

ARGYRESTHIIDAE – Needleminer Moths

Yponomeutidae, Argyresthiinae

- 96. *Argyresthia conjugella* Zell. (2449. *Argyresthia conjugella* Zell.) (Apple Fruit Moth) – 19-VI-2003 1 and 16-VII-2004 1.
- 97. *Argyresthia goedartella* (L.) (2457. *Argyresthia goedartella* (L.)) (Bronze Alder Moth) – 22-VII-2010 1.
- 101. *Argyrestia oreasella* (Clem.) (2467. *Argyresthia oreasella* (Clem.)) (Cherry Shoot Borer Moth) – 22-VII-2005 1, 26A-VIII-2005 1, 18-VII-2007 1, 24-VII-2008 1 and 4-VIII-2008 1.

YPSOLOPHIDAE – Falcate-winged Moths

Ypsolophidae, Ypsolophinae

- 104. *Ypsolopha canariella* (Wlsm.) (2371. *Ypsolopha canariella* (Wlsm.)) (Canary Ypsolopha Moth) – 6-VIII-2001 1, 12-VIII-2001 1, 6-VIII-2004 1 and 29-VII-2005 1.
- 106. *Ypsolopha dentiferella* (Wlsm.) (2376. *Ypsolopha dentiferella* (Wlsm.)) – 1-VIII-2001 1, 5-VIII-2002 1, 28-VII-2003 1 and 28-VII-2004 1.
- 108. *Ypsolopha falciferella* (Wlsm.) (2380. *Ypsolopha falciferella* (Wlsm.)) – 18-IV-2001 1, 6-IV-2005 1 and 25-IV-2005 1.
- 111. *Ypsolopha senex* (Wlsm.) (2392. *Ypsolopha senex* (Wlsm.)) – 6-VIII-2001 1 and 21-VII-2004 1.

PLUTELLIDAE – Diamondback Moths

- 113. *Plutella vanella* Wlsm. (2365. *Plutella vanilla* Wlsm.) – 20-VII-2002 1.
- 114. *Plutella xylostella* (L.) (2366. *Plutella xylostella* (L.)) (Diamondback Moth) – 24-VIII-2000 1, 7-IX-2000 1, 13-V-2001 1, 24-V-2001 1, 6-VI-2001 1, 9-VII-2001 1, 23-VII-2001 1, 1-VIII-2001 1, 6-VIII-2001 1, 12-VIII-2001 1, 21-VIII-2001 1, 28-VIII-2001 1, 11-IX-2001 1, 16-IX-2001 1, 23-IX-2001 1, 25-IX-2001 1, 29-IX-2001 1, 23-V-2002 1, 3-VII-2002 1, 12-VI-2003 1, 30-VI-2003 1, 28-VII-2003 1, 15-VIII-2003 1, 10-IX-2003 1, 26-X-2003 1, 6-VIII-2004 1, 21-IX-2004 1, 16-V-2005 1, 30-V-2005 1,

17-VII-2005 1, 22-VII-2005 1, 26A-VIII-2005 1, 18-VII-2007 1, 29-IX-2008 1, 11-IX-2009 1, 24-IX-2009 1, 9-X-2010 2 and 9-IX-2011 1.

115. *Pseudoplutella porectella* (L.) (2363. *Plutella porectella* (L.)) – 9-VII-2001 1, 1-VIII-2001 1 and 3-VII-2002 1.

ELACHISTIDAE – Concealer Moths

Elachistidae, Depressariinae

134. *Agonopterix rosaciliella* (Bsk.) (876. *Agonopterix rosaciliella* (Bsk.)) – 3-V-2005 2.
135. *Agonopterix canadensis* (Bsk.) (878. *Agonopterix canadensis* (Bsk.)) (Canadian Agonopterix Moth) – 22-VII-2005 1.
138. *Agonopterix argillacea* (Wlsm.) (889. *Agonopterix argillacea* (Wlsm.)) – 12-V-2002 1, 16-IV-2003 2, 26-IV-2006 1 and 11-IV-2009 1.
143. *Depressariodes ciniflonella* (Lienig & Zell.) (908. *Depressariodes ciniflonella* (Lienig & Zell.)) – 18-IV-2001 1, 24-IV-2001 1, 13-V-2001 1, 16-IX-2001 1, 12-IV-2002 1, 5-VIII-2002 1, 2-IX-2002 1, 8-IV-2003 1, 16-IV-2003 1, 22-IV-2003 1, 15-VIII-2003 1, 21-VIII-2003 1, 31-VIII-2003 1, 29-III-2004 1, 3-IV-2004 1, 10-IV-2004 1, 6-IV-2005 1, 25-IV-2005 1, 6-V-2005 1, 16-V-2005 1, 2-IX-2005 1, 7-IX-2005 1, 13-IV-2006 1, 19-IV-2006 1, 26-IV-2006 1 and 13-V-2008 2.
146. *Semioscopis packardella* (Clem.) (912. *Semioscopis packardella* (Clem.)) (Packard's Concealer Moth) – 3-V-2005 1, 1-V-2007 1 and 6-V-2008 1.
148. *Semioscopis inornata* Wlsm. (914. *Semioscopis inornata* Wlsm.) – 18-IV-2001 1, 22-IV-2001 1, 24-IV-2001 1, 28-IV-2002 1, 21-IV-2004 1, 11-IV-2005 1, 25-IV-2005 1, 13-IV-2007 1, 27-IV-2007 1, 1-V-2007 1, 12-IV-2008 2 and 11-IV-2009 1.
149. *Semioscopis megamicrella* Dyar (915. *Semioscopis megamicrella* Dyar) – 19-IV-2000 1, 4-V-2001 1, 8-IV-2003 1, 25-IV-2004 1, 1-V-2004 1, 13-IV-2006 1, 26-IV-2006 1, 1-V-2007 1 and 21-IV-2011 1.
150. *Semioscopis aurorella* Dyar (916. *Semioscopis aurorella* Dyar) – 4-IV-2001 1, 3-IV-2004 1, 13-IV-2007 1, 27-IV-2007 1 and 1-V-2007 1.
153. *Depressaria pastinacella* (Dup.) (922. *Depressaria pastinacella* (Dup.)) (Parsnip Webworm Moth) – 6-V-2008 1.
155. *Depressaria alienella* Bsk. (926. *Depressaria alienella* Bsk.) – 8-IX-2002 1.

Elachistinae, Elachistini

Elachista sp. – 3-VII-2002 2, 18-VII-2007 2 and 20-VI-2009 4.

161. *Elachista subalbidella* Schläger (Not in Hodges) – 20-VI-2009 1. Formerly determined as *Mompha* sp., this was revised by G. Pohl in 2011 based on NFRC specimens dissected and determined by J-F Landry.

GLYPHIDOCERIDAE – Glyphidocerid Moths

189. *Glyphidocera hurlberti* Adamski (not in Hodges) – 8-VII-2000 1, 1-VIII-2000 1, 6-VII-2001 1, 5-VIII-2002 1, 28-VII-2003 1, 16-VII-2004 1, 21-VII-2004 2, 28-VII-2002 4, 6-VIII-2004 1, 17-VII-2005 1 and 22-VII-2005 2.

OECOPHORIDAE – Oecophorid Moths

Oecophoridae, Oecophorinae, Oecophorini

193. *Polix coloradella* (Wlsm.) (1058. *Polix coloradella* (Wlsm.)) (The Skunk Moth) – 29-VI-2004 1, 16-VII-2004 1, 3-VI-2005 1, 17-VII-2005 1, 22-VII-2005 1, 29-VII-2005 1, 3-VII-2008 1 and 12-VII-2008 1.

Batrachedridae – Batrachedrid Moths

196. *Batrachedra praeangustata* (Haw.) (1399. *Batrachedra praeangustata* (Haw.)) – 2-IX-2005 1.

Coleophoridae – Casebearer Moths

Coleophoridae, Coleophorinae

Coleophora spp. – 12-VIII-2001 1, 23-VI-2006 1, 20-VI-2007 1, 18-VII-2007 2, 3-VII-2008 3, 12-VII-2008 6, 24-VII-2008 1, 4-VIII-2008 2, 20-VI-2009 2, 22-VI-2011 1, 27-VI-2011 1 and 23-VII-2011 1. The genus is currently being monographed by Dr. Jean-François Landry of the National Museum of Canada. The material with "JFL" numbers may become new species.

199. *Coleophora pruniella* Clem. (1271. *Coleophora pruniella* Clem.) (Cherry Casebearer Moth) – 3-VII-2002 1, 18-VII-2003 1, 29-VI-2004 4, 10-VII-2004 6, 21-VII-2004 2, 1-VII-2005 2, 17-VII-2005 3 and 22-VII-2005 1.
208. *Coleophora rosacella* Clem. (1316. *Coleophora rosacella* Clem.) – 10-VII-2004 1.
209. *Coleophora mcdunnoughiella* Oud. (1321. *Coleophora mcdunnoughiella* Oudejans) – 20 VI-2007 1.
214. *Coleophora sparsipulvella* Cham. (1352. *Coleophora sparsipulvella* Cham.) – 12-VIII-2000 1, 24-VIII-2000 1, 14-VII-2003 1, 16-VII-2004 2, 28-VII-2004 2 and 22-VII-2005 1.
216. *Coleophora bruneipennis* Braun (1367. *Coleophora bruneipennis* Braun) – 21-VII-2000 1, 6-VII-2001 1, 9-VII-2001 2, 15-VII-2002 1, 16-VII-2004 2 and 28-VII-2004 1.
219. *Coleophora glaucicicola* Wood (1378. *Coleophora glaucicicola* Wood) – 6-VII-2001 1 and 22-VI-2002 1.
222. *Coleophora trifolii* (Curt.) (1388. *Coleopora trifolii* (Curt.)) (Large Clover Casebearer Moth) – 21-VII-2000 1, 6-VII-2001 1, 9-VII-2001 1, 28-VII-2004 1, 1-VII-2005 2, 17-VII-2005 1, 22-VII-2005 1, 3-VII-2008 1 and 22-VI-2011 1.
- Coleophora* JFL023 – 17-VII-2005 1.
- Coleophora* JFL046 – 18-VII-2007 1.
- Coleophora* JFL084 – 1-VIII-2001 1, 6-VIII-2004 1 and 19-VIII-2005 1.
- Coleophora* JFL091 – 21-VII-2004 1.
- Coleophora* JFL092 – 28-VII-2004 1, 6-VIII-2004 1 and 22-VII-2005 1.

Coleophoridae, Blastobasinae

Species indet. – 26A-VIII-2003 1 and 25-VIII-2009 3. The family is currently being monographed by Dr. David Adamski as part of the Moths of North America series.

Coleophoridae, Momphinae

Mompha spp. – 16-V-2005 1, 1-VII-2011 1 and 16-VIII-2011 1.

229. *Mompha unifasciella* (Cham.) (1458. *Mompha unifasciella* (Cham.)) – 1-VI-2002 1, 22-VI-2002 3, 29-VI-2004 1, 2-VI-2006 1 and 23-IX-2011 1.

Cosmopterygidae – Cosmopterygid Moths

Cosmopterygidae, Cosmopteryginae

Species indet. – 1-VIII-2001 1 and 6-VIII-2001 1.

232. *Walshia miscecolorella* (Cham.) (1615. *Walshia miscecolorella* (Cham.)) (Sweetclover Root Borer Moth) – 15-VII-2002 1.

241. *Lymnaecia phragmitella* Staint. (1515. *Lymnaecia phragmitella* Staint.) (Shy Cosmet Moth) – 9-VIII-2000 1, 25-VIII-2000 1, 9-VII-2001 1, 23-VII-2001 1, 1-VIII-2001 3, 6-VIII-2001 1 and 12-VIII-2001 2.

GELECHIIDAE – Gelechiid Moths

Species indet. – 12-VII-2000 1, 1-VIII-2000 1, 13-V-2001 1, 9-VII-2001 1, 1-VIII-2001 1, 21-VIII-2001 1, 25-IX-2001 1, 22-VI-2002 8, 2-VII-2002 1, 15-VII-2002 3, 20-VII-2002 4, 5-VIII-2002 1, 2-IX-2002 2, 19-VI-2002 2, 30-VI-2003 4, 14-VII-2003 2, 15-VIII-2003 1, 21-VIII-2003 1, 25-IV-2004 3, 29-VI-2004 2, 10-VII-2004 4, 16-VII-2004 2, 21-VII-2004 4, 28-VII-2004 2, 6-VIII-2004 2, 4-IX-2004 2, 21-IX-2004 1, 16-V-2005 1, 30-V-2005 3, 1-VII-2005 1, 17-VII-2005 4, 22-VII-2005 7, 2-IX-2005 1, 23-VI-2006 1, 26B-B-2007 1, 20-VI-2007 1, 18-VII-2007 1, 12-VII-2008 2, 4-VIII-2008 2, 29-IX-2008 1, 20-VI-2009 1, 22-VI-2011 1, 23-VII-2011 2, 2-VIII-2011 1 and 16-VIII-2011 1. The species in this family are poorly known and there are many species still to be described.

Gelechiidae, Gelechiinae, Anomologini

249. *Aristotelia fungivorella* (Clem.) (1738. *Aristotelia fungivorella* (Clem.)) – 18-VIII-2004 1.

Gelechiidae, Gelechiinae, Litini

254. *Coleotechnites atrupictella* (Dietz) (1792. *Coleotechnites atrupictella* (Dietz)) – 25-VIII-2000 1, 27C-VII-2003 1, 15-VIII-2003 1, 21-VIII-2003 1, 18-VIII-2004 1, 26-VII-2004 1 and 4-VIII-2008 2.

256. *Coleotechnites blastovora* McLeod (1796. *Coleotechnites blastovora* McLeod) – 13-V-2001 1, 5-VI-2001 1, 1-VI-2002 1, 20-V-2003 1, 4-VI-2003 1, 13-VI-2003 1, 19-VI-2003 1, 25-IV-2004 1, 24-V-2004 1, 26-V-2004 1, 24-IV-2005 1, 6-V-2005 1, 16-V-2005 1, 19-IV-2006 1, 6-V-2008 1, 13-V-2008 1, 2-VI-2009 1 and 4-VI-2011 1.

263. *Coleotechnites piceaella* (Kft.) (1826. *Coleotechnites piceaella* (Kft.)) (Orange Spruce Needleminer) – 14-VII-2003 1, 16-VII-2004 1, 26A-VIII-2005 1, 3-VII-2008 1 and 12-VII-2008 1.

Xenolechia sp.? (*Xenolechia* sp.?) – 9-VII-2001 1.

267. *Xenolechia velatella* (Bsk.) (1880. *Xenolechia velatella* (Bsk.)) – 20-V-2003 1, 19-VI-2004 1, 10-VII-2004 2, 25-IV-2005 1 and 3-V-2005 1.

Gelechiidae, Gelechiinae, Gelechiini

271. *Prolita variabilis* (Bsk.) (1902. *Lita variabilis* (Bsk.)) – 21-VIII-2002 1 and 2-IX-2002 1.

282. *Gelechia lynceella* Zell. (1946. *Gelechia lynceella* Zell.) – 14-VI-2001 1, 6-VII-2001 2, 22-VI-2002 1, 3-VII-2002 2, 15-VII-2002 1, 24-VI-2003 2, 30-VI-2003 2, 10-VII-2004 1, 16-VII-2004 1, 24-VI-2005 2, 1-VII-2005 1, 17-VII-2005 1, 18-VII-2007 2, 3-VII-2008 3, 12-VII-2008 1, 20-VI-2009 1 and 27-VI-2011 2.

Gelechiidae, Gelechiinae, Gelechiini

291. *Chionodes obscuruscella* (Cham.) (2099. *Chionodes obscurusella* (Cham.)) (Boxelder Leafworm) – 21-VIII-2000 1, 25-VIII-2000 2, 14-IX-2000 3, 25-IX-2000 1, 28-VIII-2001 2, 23-IX-2001 1, 15-VIII-2003 2?, 31-VIII-2003 1?, 12-X-2004 1, 12C-VIII-2005 1, 26A-VIII-2005 1, 28-IX-2005 1, 11-IX-2009 1, 24-IX-2009 1, 10-VIII-2010 2 and 25-IX-2010 2.
292. *Chionodes mediofuscella* (Clem.) (2093. *Chionodes mediofuscella* (Clem.)) – 5-VI-2001 1, 22-VI-2002 1, 4-VI-2003 1, 13-VI-2003 1, 24-VI-2003 1, 30-VI-2003 1, 26-V-2004 1, 1-VI-2004 1, 16-V-2005 1, 30-V-2005 1, 3-VI-2005 1, 16-VI-2005 1, 2-VI-2006 1, 18-VII-2007 1, 22-VI-2011 1 and 23-VII-2011 2.
293. *Chionodes terminimaculella* (Kft.) (2117. *Chionodes terminimaculella* (Kft.)) – 5-VI-2001 2, 22-VI-2002 1, 10-VI-2002 2, 22-VI-2002 2, 25-V-2005 1, 30-V-2005 2, 2-VI-2006 1, 2-VI-2009 1 and 20-VI-2009 1.
300. *Chionodes psiloptera* (B. & Bsk.) (2111. *Chionodes psilopterus* (B. & Bsk.)) – 14-VI-2001 1, 6-VII-2001 1, 22-VI-2002 1, 3-VII-2002 2, 15-VII-2002 2, 20-VII-2002 2, 13-VI-2003 2, 24-VI-2003 1, 14-VII-2003 1, 14-VI-2004 1, 20-VI-2004 1, 10-VII-2004 2, 28-VII-2004 1, 16C-VI-2005 1, 17-VII-2005 1, 2-VI-2006 2 and 27-VI-2011 1.
310. *Chionodes sattleri* Hodges (2069.11. *Chionodes sattleri* Hodges) – 28-VI-2000 1, 14-VI-2001 3, 16-VII-2001 1, 10-VII-2004 1, 16C-VI-2005 1, 1-VII-2005 1, 20-VI-2009 1, 27-VI-2011 1 and 16-VII-2011 1.
317. *Filatima abactella* (Clarke) (2127. *Filatima abactella* (Clarke)) – 13-V-2001 1, 1-VI-2002 1, 10-VI-2002 1, 22-VI-2002 1, 3-VII-2002 1, 15-VII-2002 1, 20-VII-2002 1, 20-V-2003 1, 22-V-2003 1, 4-VI-2003 1, 13-VI-2003 1, 24-VI-2003 1, 19-V-2004 1 SR, 24-V-2004 1, 26-V-2004 1, 1-VI-2004 1, 8-VI-2004 1, 20-VI-2004 1, 16-V-2005 1, 30-V-2005 1, 3-VI-2005 1, 5-VI-2005 1, 16C-VI-2005 1, 24-VI-2005 1, 10-V-2006 2, 26B-V-2007 1, 13-V-2008 1, 2-VI-2009 1, 20-VI-2009 1, 19-V-2010 1, 4-VI-2011 1, 22-VI-2011 1 and 27-VI-2011 1.

Gelechiidae, Gelechiinae, Gnorimoschemini

332. *Gnorimoschema septentrionella* Fyles (2000. *Gnorimoschema septentrionella* Fyles) – 1-IX-2004 1.

Gelechiidae, Gelechiinae, Anacampsini

351. *Anacampsis niveopulvella* (Cham.) (2243. *Anacampsis niveopulvella* (Cham.)) – 31-VIII-2003 1, 18-VII-2007 1 and 24-IX-2009 1.

Gelechiidae, Dichomeridinae

354. *Helcystogramma fernaldella* (Bsk.) (2267. *Brachmia fernaldella* (Bsk.)) – 22-V-2000 1 and 26B-V-2007 1.
359. *Dichomeris simpliciella* Bsk. (2303 *Dichomeris simpliciella* Bsk.) – 20-VI-2007 1.

SESIIDAE – Clearwing Moths

Sesiidae, Tinthiinae, Pennisetiini

367. *Pennisetia marginatum* (Harr.) (2513. *Pennisetia marginata* (Harr.)) (Raspberry Crown Borer Moth) – 4-VII-2006 1 and 13-VII-2006 1.

TORTRICIDAE – Tortricid Moths

Tortricidae, Tortricinae, Tortricini

Acleris spp. – 1-VI-2002 1, 7-V-2007 1, 13-V-2010 1, 25-IX-2010 1 and 23-IX-2011 1. The genus *Acleris* is in need of serious revision. The following material was looked at by Jason Dombroskie but he feels that many of the determinations should be regarded as tentative.

- 403. *Acleris albicomana* (Clem.) (3502. *Croesia albicomana* (Clem.)) – 21-VII-2004 1.
- 405. *Acleris macdunnoughi* Obr. (3506. *Acleris macdunnoughi* Obr.) – 11-IX-2009 1.
- 406. *Acleris caliginosana* (Wlk.) (3508. *Acleris caliginosana* (Wlk.)) – 28-IX-2005 1 and 7-X-2005 1.
- 408. *Acleris cervinana* (Fern.) (3514. *Acleris cervinana* (Fern.)) – 25-IV-2005 1 and 2-V-2005 1.
- 411. *Acleris fuscana* (B. & Bsk.) (3520. *Acleris fuscana* (B. & Bsk.) (*A. obligatoria* (Park & Raz.))) – 12-V-2002 2, 1-VI-2002 4, 10-IV-2004 1, 7-V-2004 1 and 21-IX-2004 1.
- 411. *Acleris fuscana* (B. & Bsk.) or 3523 *Acleris cornana* McD.) (3520. *Acleris fuscana* (B. & Bsk.) or 3523 *Acleris cornana* (McD.)) – 24-IV-2001 1, 4-V-2001 1, 13-V-2001 4, 28-VIII-2001 2, 25-IX-2001 2, 10-VI-2002 1, 10-V-2006 2, 2-VI-2006 1, 13-V-2008 1 and 29-IX-2008 1.
- 412. *Acleris semiannula* Rob. (3521. *Acleris semiannula* Rob.) – 28-IX-2005 1.
- 413. *Acleris implexana* (Wlk.) (3522. *Acleris implexana* (Wlk.)) – 12-V-2002 1?
- 415. *Acleris forbesana* (McD.) (3525. *Acleris forbesana* (McD.)) – 25-IV-2004 1 and 13-IV-2006 1.
- 417. *Acleris oxycoccana* (Pack.) (3529. *Acleris oxycoccana* (Pack.)) – 16-IX-2001 1, 15-VIII-2003 1 and 24-IX-2009 1.
- 418. *Acleris hastiana* (L.) (3531. *Acleris hastiana* (L.)) – 23-IX-2001 1.
- 422. *Acleris robinsoniana* (Fbs.) (3536. *Acleris robinsoniana* (Fbs.)) – 22-VIII-2001 2 and 2-IX-2005 1.
- 427. *Acleris clarkei* Obr. (3544. *Acleris clarkei* Obr.) – 13-V-2001 1. Jason Dombroskie revised this from *forbesana* to *clarkei*.
- 431. *Acleris variana* (Fern.) (3548. *Acleris variana* (Fern.)) (Black-headed Budworm Moth) – 12-VIII-2001 1, 21-VIII-2001 1, 12-VIII-2002 1, 15-VIII-2003 1, 21-VIII-2003 1, 18-VIII-2004 1 and 4-VIII-2008 1.
- 432. *Acleris maccana* (Tr.) (3549. *Acleris maccana* (Tr.)) – 28-IX-2005 1.
- 435. *Acleris bowmanana* (McD.)/439. *Acleris hudsoniana* (Wlk.) (3553. *Acleris bowmanana* (McD.)/*Acleris hudsoniana* (Wlk.) complex) – 12-IV-2008 1.
- 435. *Acleris bowmanana* (McD.) (3553. *Acleris bowmanana* (McD.)) – 25-IX-2001 1 and 6-IV-2005 1.
- 436. *Acleris nigrolinea* (Rob.) (3556. *Acleris nigrolinea* (Rob.)) – 18-IX-2002 3, 15-VIII-2003 1, 25-IV-2004 1, 14-IX-2004 1, 16-IV-2005 1, 2-IX-2005 2 and 7-X-2005 1.
- 437. *Acleris maximana* (B. & Bsl.) (3557. *Acleris maximana* (B. & Bsk.)) – 25-IV-2004 1, 1-V-2004 1, 7-V-2004 1 and 26-IV-2006 1.
- 439. *Acleris hudsoniana* (Wlk.) complex (3561. *Acleris hudsoniana* (Wlk.) complex) – 23-IX-2001 1, 16-X-2001 1, 27-IV-2002 1, 23-V-2002 1, 3-V-2005 1 and 12-IV-2008 1.

Tortricidae, Tortricinae, Cochylini

The North American members of this group are currently being monographed by Dr. Eric Metzler and Dr. John Brown.

Species indet. – 3-VII-2008 1.

- 443. *Phteochohra fulviplicana* (Wlsm.) (3792. *Phteochohra fulviplicana* (Wlsm.)) – 12-VII-2000 1 and 23-VII-2011 1.
- 446. *Phteochohra vitellinana* (Zell.) (3787. *Carolella vitellinana* (Zell.)) – 9-VII-2001 1? and 15-VII-2002 1?
- 448. *Phteochohra waracana* (Kft.) (3796. *Phteochohra waracana* (Kft.)) – 6-VII-2001 1, 16-VII-2004 1, 21-VII-2004 1 and 12-VII-2008 1.
- 449. *Platphalonidia albertae* Raz. ? (Not in Hodges) – 4-IX-2004 1.

451. *Platphalonidia felix* (Wlsm.) (3760. *Platphalonidia felix* (Wlsm.)) – 6-VIII-2004 1.

458. *Aethes rutilana* (Hbn.) (3758. *Aethes rutilana* (Hbn.)) – 16-VII-2004 1.

Not in Pohl et al. (3858. *Cochylis* nr. *voxcana* (Kft.)) – 14-VI-2001 1 and 19-VII-2001 1.

Tortricidae, Tortricinae, Cnephasini

466. *Eana argentana* (Cl.) (3568. *Eana argentana* (Cl.)) – 27-VI-2002 1, 20-VII-2002 1 and 28-VII-2004 1.

469. *Decodes horariana* (Wlsm.) (3580. *Decodes horianus* (Wlsm.)) – 16-IX-2001 1 and 4-IX-2004 1.

Tortricidae, Tortricinae, Archipini

472. *Pandemis canadana* Kft. (3595. *Pandemis canadana* Kft.) (Green Aspen Leaftier Moth) – 8-VII-2000 1, 20-VII-2000 1, 11-VIII-2000 2, 23-VII-2001 1, 1-VIII-2001 2, 6-VIII-2001 1, 12-VIII-2001 1, 3-VII-2002 1, 15-VII-2002 1, 20-VII-2002 1, 28-V-2003 1, 15-VIII-2003 1, 10-VII-2004 1, 6-VIII-2004 2, 1-IX-2004 1, 1-VII-2005 1, 17-VII-2005 1, 22-VII-2005 2, 29-VII-2005 1, 26A-VIII-2005 1, 18-VII-2007 1, 2-IX-2005 1, 4-VIII-2008 1, 10-VIII-2010 2 and 2-VIII-2011 1.

479. *Argyrotaenia quadrifasciana* (Fern.) (3621. *Argyrotaenia quadrifasciana* (Fern.)) (Lesser All-green Leafroller Moth) – 10-VII-2005 2, 22-VII-2005 2, 12-VII-2008 1, 24-VII-2008 1 and 23-VII-2011 1.

483. *Choristoneura rosaceana* (Harr.) (3635. *Choristoneura rosaceana* (Harr.)) (Oblique-banded Leafroller Moth) – 8-VII-2000 2, 12-VII-2000 1, 20-VII-2000 1, 21-VII-2000 2, 6-VII-2001 2, 27-VII-2001 1, 1-VIII-2001 1, 3-VII-2002 1, 15-VII-2002 1, 20-VII-2002 1, 14-VII-2003 1, 15-VIII-2003 1, 10-VII-2004 3, 16-VII-2004 1, 21-VII-2004 1, 22-VII-2005 1, 3-VII-2008 1, 12-VII-2008 1 and 23-VII-2011 1.

485. *Choristoneura conflictana* (Wlk.) (3637. *Choristoneura conflictana* (Wlk.)) (Large Aspen Tortrix) – 28-VI-2000 1, 2-VII-2000 1, 8-VII-2000 1, 21-VII-2000 1, 22-VI-2002 1, 3-VII-2002 2, 19-VI-2003 1, 24-VI-2003 1, 20-VI-2004 1, 16-VII-2004 1, 21-VII-2004 3, 16C-VI-2005 1, 2-VI-2006 1, 20-VI-2007 1 and 12-VII-2008 1.

486. *Choristoneura fumiferana* (Clem.) (3638. *Choristoneura fumiferana* (Clem.)) (Spruce Budworm Moth) – 6-VII-2001 1, 3-VII-2008 2 and 25-VIII-2009 1.

491. *Archips packardiana* (Fern. (3667. *Archips packardiana* (Fern.)) (Spring Spruce-needle Moth) – 10-VII-2004 1 and 3-VII-2008 4.

495. *Archips argyrospila* (Wlk.) (3648. *Archips argyrospila* (Wlk.)) (Fruit-tree Roller Moth) – 9-VII-2001 2 and 24-VII-2008 2.

499. *Archips purpurana* (Clem.) (3658. *Archips purpurana* (Clem.)) – 12-VII-2008 1.

502. *Syndemis afflictana* (Wlk.) (3672. *Syndemis afflictana* (Wlk.)) (Gray Leafroller Moth or Black-and-gray Banded Leafroller) – 13-V-2001 3, 24-V-2001 1 and 1-VI-2002 1.

504. *Aphelia alleniana* (Fern.) (3675. *Aphelia alleniana* (Fern.)) – 12-VII-2008 1.

508. *Clepsis persicana* (Fitch) (3682. *Clepsis persicana* (Fitch)) (White-triangle Tortrix Moth) – 2-VII-2000 1, 8-VII-2000 3, 12-VII-2000 1, 21-VII-2000 1, 6-VII-2001 2, 9-VII-2001 2, 22-VI-2002 1, 3-VII-2002 1, 15-VII-2002 1, 24-VI-2003 1, 14-VII-2003 1, 29-VI-2004 1, 10-VII-2004 1, 1-VII-2005 1, 20-VI-2007 1, 3-VII-2008 1, 12-VII-2008 1 and 27-VI-2011 1.

509. *Clepsis clemensiana* (Fern.) (3684. *Clepsis clemensiana* (Fern.)) (Clemen's Clepsis Moth) – 12-VII-2000 1, 21-VII-2000 1, 1-VII-2001 1, 3-VII-2002 1, 29-VI-2004 1, 28-VII-2004 1, 24-VI-2005 1, 18-VII-2007 1, 24-VII-2008 1 and 10-VIII-2010 1.

512. *Ptycholoma peritana* (Clem.) (3688. *Ptycholoma peritana* (Clem.)) (Garden Tortrix Moth) – 2-VII-2000 1, 12-VII-2000 1, 26-VII-2000 1, 6-VII-2001 2, 9-VII-2001 1, 22-VI-2002 1, 2-IX-2002 1, 8-IX-2002 1, 28-VII-2003 1, 21-VIII-2003 1, 10-VII-2004 2, 16-VII-2004 1, 21-VII-2004 1, 28-VII-2004 1,

6-VIII-2004 1, 18-VIII-2004 2, 16C-VI-2005 1, 1-VII-2005 1, 22-VII-2005 1, 29-VII-2005 1, 13C-VIII-2005 1, 23-VI-2006 1, 20-VI-2009 1, 10-VIII-2010 1 and 23-VII-2011 1.

513. *Ptycholoma virescana* (Clem.) (3689. *Ptycholoma virescana* (Clem.)) – 1-VIII-2001 2, 22-VI-2002 1, 15-VII-2002 1, 2-IX-2002 1, 17-VIII-2005 2, 22-VII-2005 1 and 23-VII-2011 1.

514. *Adoxophyes negundana* (McD.) (3691. *Adoxophyes negundana* (McD.)) (Shimmering Adoxophyes Moth) – 30-VI-2003 1 and 12-VII-2008 1.

Tortricidae, Tortricinae, Sparganothidini

520. *Sparganothis unifasciana* (Clem.) (3711. *Sparganothis unifasciana* (Clem.)) (One-lined Sparganothis Moth) – 20-VII-2002 1.

522. *Sparganothis reticulatana* (Clem.) (3720. *Sparganothis reticulatana* (Clem.)) (Reticulated Fruitworm Moth) – 6-VIII-2001 1.

523. *Platynota idaeusalis* (Wlk.) (3740. *Platynota idaeusalis* (Wlk.)) (Tufted Apple Bud Moth) – 21-VI-2000 1, 21-VII-2000 1, 6-VII-2001 1, 9-VII-2001 1, 3-VII-2002 1, 15-VII-2002 2, 20-VII-2002 1, 14-VII-2003 2, 10-VII-2004 1, 22-VII-2005 1 and 12-VII-2008 3.

Tortricidae, Tortricinae, Euliini

525. *Eulia ministrana* (L.) (3565. *Eulia ministrana* (L.)) (Ferruginous Eulia Moth) – 22-VI-2002 2, 2-VI-2006 1 and 20-VI-2007 1.

Tortricidae, Olethreutinae

Species indet. – 9-VII-2001 1, 6-VIII-2001 1, 29-VI-2004 1, 16-VII-2004 1, 28-VII-2004 1, 22-VI-2011 1, 27-VI-2011 1 and 23-VII-2011 1.

Tortricidae, Olethreutinae, Endotheniini

533. *Endothenia nubilana* (Clem.) (2743a. *Endothenia nubilana* (Clem.)) – 15-VII-2002 1, 10-VII-2004 1, 28-VII-2004 1 and 25-VIII-2009 1.

534. *Taniva albolineana* (Kft.) (2745. *Endothenia albolineana* (Kft.)) (Spruce Needleminer Moth) – 26-VII-2000 1, 6-VII-2001 1, 24-V-2004 1, 10-VII-2004 1, 16-V-2005 1, 20-VI-2007 1 and 3-VII-2008 1.

Bactra spp. (*Bactra* spp.) – 18-VII-2007 1 and 3-VII-2008 1.

538. *Bactra verutana* Zell. (2707. *Bactra verutana* Zell.) (Javelin Moth) – 3-VII-2002 1.

Tortricidae, Olethreutinae, Olethreutini

546. *Apotomis funerea* (Meyr.) (2755. *Apotomis funerea* (Meyr.)) (Funereal Apotomis Moth) – 8-VII-2000 1.

547. *Apotomis removana* (Kft.) (2766. *Apotomis dextrana* McD.) (Green Aspen Leafroller Moth) – 9-VIII-2000 1, 15-VII-2002 1, 20-VI-2007 1, 25-VIII-2009 1, 10-VIII-2010 1, 23-VII-2011 1 and 2-VIII-2011 1.

552. *Apotomis deceptana* (Kft.) (2765. *Apotomis deceptana* (Kft.)) (Deceptive Apotomis Moth) – 21-VII-2000 1, 24-V-2001 1 and 6-VIII-2001 1.

556. *Pseudosciaphila duplex* (Wlsm.) (2769. *Pseudosciaphila duplex* (Wlsm.)) (Spotted Leafroller or Poplar Leafroller Moth) – 28-VI-2000 1, 8-VII-2000 1, 12-VIII-2001 1, 22-VI-2002 4, 3-VII-2002 1, 30-VI-2002 2, 20-VI-2004 1, 16C-VI-2005 4, 24-VI-2005 1, 1-VII-2005 1, 20-VI-2007 2, 3-VII-2008 1, 12-VII-2008 1, 20-VI-2009 1 and 22-VI-2011 1.

557. *Orthotaenia undulana* (D. & S.) (2770. *Orthotaenia undulana* (D. & S.)) (Dusky Leafroller Moth) – 26-VI-2000 1, 2-VII-2000 1, 14-VI-2001 1, 6-VII-2001 1, 22-VI-2002 1, 3-VII-2002 1, 15-VII-2002 1, 24-VI-2003 1, 30-VI-2003 1, 29-VI-2004 1, 10-VII-2004 1, 16C-VI-2005 1, 1-VII-2005 1, 20-VI-2009 1, 23-VI-2010 1 and 27-VI-2011 1.
- Olethreutes* spp. – 8-VII-2000 3, 6-VII-2001 1, 9-VII-2001 5, 23-VII-2001 1, 16-IX-2001 1, 22-VI-2002 1, 3-VII-2002 3, 15-VII-2002 1, 20-VII-2002 4, 14-VII-2003 2, 29-VI-2004 1, 10-VII-2004 3, 21-VII-2004 1, 24-VI-2005 1, 1-VII-2005 1, 22-VII-2005 4, 23-VI-2006 1, 3-VII-2008 2 and 12-VII-2008 1.
- 560/561. *Olethreutes inornatana* (Clem.) or *quadrifidum* (Zell.) (2788/2794. *Olethreutes inornatana* (Clem.) or *quadrifidus* (Zell.)) – 20-VI-2007 1 and 18-VII-2007 1.
562. *Olethreutes appendiceum* (Zell.) (2821. *Olethreutes appendicea* (Zell.)) (Serviceberry Olethreutes Moth) – 6-VII-2001 1.
566. *Olethreutes galaxana* Kft. (2835. *Olethreutes galaxana* Kft.) – 20-VI-2007 4.
575. *Olethreutes bipartitana* (Clem.) (2848. *Olethreutes bipartitana* (Clem.)) (Divided Olethreutes Moth) – 10-VII-2004 2 and 1-VII-2005 1.
583. *Metendothenia separatana* (Kft.) (2860. *Hedya separatana* (Kft.)) (Pink-washed Leafroller Moth) – 22-VI-2002 1.
584. *Hedya ochroleucana* (Frölich) (2861. *Hedya ochroleucana* (Frölich)) (Off-white Hedya Moth) – 12-VII-2000 2, 1-VIII-2001 1, 3-VII-2002 2, 14-VII-2003 1, 10-VII-2004 1, 22-VII-2005 1, 18-VII-2007 2, 3-VII-2008 1 and 12-VII-2008 1.
585. *Hedya nubiferana* (Haw.) 2862. *Hedya nubiferana* (Haw.) (Marbled Orchard Tortrix Moth) – 20-VI-2009 1.

Tortricidae, Olethreutinae, Enarmoniini

587. *Ancylis subaequana* (Zell.) (3355. *Ancylis subaequana* (Zell.)) – 20-VI-2007 1.
591. *Ancylis laciniana* (Zell.) (3366. *Ancylis laciniana* (Zell.)) – 13-VI-2003 1.
595. *Ancylis comptana* (Frölich) (3374. *Ancylis comptana* (Frölich)) (Strawberry Leafroller) – 13-VI-2003 1.
598. *Ancylis diminutana* (Haw.) (3379. *Ancylis diminutana* (Haw.)) – 20-VI-2009 1.

Tortricidae, Olethreutinae, Eucosmini

612. *Retinia burkeana* (Kft.) (2900. *Petrova burkeana* (Kft.)) – 22-VI-2002 1.
- Phaneta* sp. – 3-VII-2008 1.
618. *Phaneta umbrastriana* (Kft.) (2913. *Phaneta umbrastriana* (Kft.)) – 22-VI-2011 1.
619. *Phaneta formosana* (Clem.) (2916. *Phaneta formosana* (Clem.)) (Beautiful Phaneta Moth) – 13-VI-2003 1.
626. *Phaneta marmontana* (Kft.) (2933. *Phaneta marmontana* (Kft.)) – 2-VII-2008 1.
630. *Phaneta influana* (Heinr.) (2947. *Phaneta influana* (Heinr.)) – 22-VI-2002 1.
631. *Phaneta lapidana* (Wlsm.) (2949. *Phaneta lapidana* (Wlsm.)) – 11-IV-2009 1.
643. *Phaneta indagatricana* (Heinr.) (2969. *Phaneta indagatricana* (Heinr.)) – 20-VI-2007 1 and 18-VII-2007 1.
645. *Phaneta striatana* (Clem.) (2973. *Phaneta striatana* (Clem.)) (Striated Phaneta Moth) – 3-VII-2008 1.
647. *Phaneta modicellana* (Heinr.) (2977. *Phaneta modicellana* (Heinr.)) – 22-VII-2005 2 and 18-VII-2007 1.
648. *Phaneta pallidicostana* (Wlsm.) (2980. *Phaneta pallidicostana* (Wlsm.)) – 12-VIII-2001 1, 20-VII-2002 1 and 21-VII-2004 1.
650. *Phaneta infimbriana* (Dyar) (2985. *Phaneta infimbriana* (Dyar)) – 20-VI-2007 1.

Eucosma n. sp. – 18-VII-2007 1. This specimen was examined by Dr. Donald Wright and he feels that it is of an undescribed species.

- 656. *Eucosma ridingsiana* (Rob.) (3014. *Eucosma ridingsiana* (Rob.)) (Riding's Eucosma Moth or Snakeweed Borer Moth) – 12-VIII-2001 1.
- 660. *Eucosma serpentana* (Wlsm.) (3031. *Eucosma serpentana* (Wlsm.)) – 12-VIII-2001 1 and 10-VII-2004 1.
- 664. *Eucosma agricolana* (Wlsm.) (3037. *Eucosma agricolana* (Wlsm.)) – 10-VII-2004 1, 16-VII-2004 3, 16C-VI-2005 1, 2-VI-2006 2 and 3-VII-2009 3.
- 692. *Eucosma cataclystana* (Wlk.) (3142. *Eucosma cataclystana* (Wlk.)) (Solidago Eucosma Moth) – 10-VII-2004 2.
- 707. *Notocelia purpurissitana* Heinr. (3209. *Notocelia purpurissitana* Heinr.) – 9-VII-2001 1, 15-VII-2002 1 and 10-VII-2004 1.
- 709. *Notocelia culminana* (Wlsm.) (3211. *Notocelia culminana* (Wlsm.)) – 6-VIII-2001 1, 6-VIII-2004 1 and 15-VIII-2004 2.
- 710. *Gypsonoma fasciolana* (Clem.) (3223. *Gypsonoma fasciolana* (Clem.)) – 18-V-2001 1, 22-VI-2002 1, 19-VI-2003 1 and 3-VII-2008 1.
- 714. *Gypsonoma substitutionis* Heinr. (3227. *Gypsonoma substitutionis* Heinr.) – 22-VII-2005 1.
- 716. *Gypsonoma adjuncta* Heinr. (3229. *Gypsonoma adjuncta* Heinr.) – 8-VII-2000 1, 16C-VI-2005 1, 2-VI-2006 1, 20-VI-2007 2, 22-VI-2011 2 and 27-VI-2011 2.
- 717. *Proteoteras aesculana* Riley (3230. *Proteoteras aesculana* Riley) (Early Proteoteras Moth or Maple Twig Borer Moth) – 13-V-2001 1, 24-V-2001 1, 22-V-2003 1, 4-VI-2003 2, 30-VI-2003 1, 19-V-2004 2, 24-V-2004 1, 16-V-2005 4, 30-V-2005 2, 3-VI-2005 1, 5-VI-2005 1, 27-V-2006 1, 26B-V-2007 1, 12-VI-2008 1, 2-VI-2009 1, 4-VI-2011 1 and 23-IX-2011 1.
- 718. *Proteoteras willingana* (Kft.) (3232. *Proteoteras willingana* (Kft.)) (Eastern Boxelder Twig Borer Moth) – 20-VI-2007 1 and 2-VI-2009 1.
- 720. *Zeiraphera canadensis* Mut. & Free. (3240. *Zeiraphera canadensis* Mutuura & Free.) (Spruce Bud Moth) – 14-IX-2000 1, 23-IX-2001 1 and 15-VIII-2003 1.
- 722. *Zeiraphera fortunana* (Kft.) (3242. *Zeiraphera fortunana* (Kft.)) (Yellow Spruce Budworm) – 18-IX-2000 1.
- 725. *Pseudexentera oregonana* (Wlsm.) (3248. *Pseudexentera oregonana* (Wlsm.)) (Early Aspen Leafroller Moth) – 7-IV-2000 2, 10-IV-2000 3, 11-IV-2000 2, 18-IV-2000 3, 18-IV-2001 1, 12-IV-2002 2, 27-IV-2002 1, 28-IV-2002 1, 8-IV-2003 3, 16-IV-2003 1, 29-III-2004 2, 3-IV-2004 many, 10-IV-2004 1, 25-IV-2004 5, 1-V-2004 5, 31-III-2005 many, 6-IV-2005 many, 11-IV-2005 many, 16-IV-2005 many, 25-IV-2005 many, 3-V-2005 1, 6-V-2005 1, 13-IV-2006 5, 13-IV-2007 2, 27-IV-2007 1, 12-IV-2008 1, 6-V-2008 1, 13-V-2008 1 and 26-VVV-2010 1.
- 727. *Griselda radicana* Heinr. (3269. *Griselda radicana* Heinr.) – 12-VIII-2001 1 and 31-VIII-2001 1.
- 733. *Epinotia castaneana* (Wlsm.) (3288. *Epinotia castaneana* (Wlsm.)) – 1-VII-2005 1, 17-VII-2005 1 and 18-VII-2007 1.
- 737. *Epinotia rectiplicana* (Wlsm.) (3302. *Epinotia rectiplicana* (Wlsm.)) – 22-VI-2001 3.
- 740. *Epinotia nisella* Cl. (3306. *Epinotia nisella* Cl.) (Variable Tortrix Moth or Poplar Branchlet Borer Moth) – 1-VIII-2001 3, 12-VIII-2001 1, 21-VIII-2001 2, 5-VIII-2002 4, 2-IX-2002 2, 28-VII-2003 1, 3-VIII-2003 1, 15-VIII-2003 2, 21-VIII-2003 2, 10-VII-2004 2, 21-VII-2004 1, 28-VII-2004 1, 6-VIII-2004 2, 18-VIII-2004 1, 26-VIII-2004 1, 21-IX-2004 3, 17-VII-2005 1, 22-VII-2005 2, 29-VII-2005 1, 26A-VIII-2005 1, 3-VII-2008 1, 12-VII-2008 1, 4-VIII-2008 2, 24-IX-2009 1, 10-VIII-2010 1, 25-IX-2010 1, 23-VII-2011 1, 2-VIII-2011 1 and 23-IX-2011 1.
- 741. *Epinotia criddleana* Kft. (3307. *Epinotia criddleana* Kft.) – 7-IX-2000 1, 5-VIII-2001 3, 25-VIII-2001 1, 20-VII-2002 1, 2-IX-2002 1, 8-IX-2002 1, 25-VIII-2009 1 and 10-VIII-2010 1.

753. *Epinotia lomonana* (Kft.) (3342. *Epinotia lomonana* (Kft.)) – 23-IX-2001 1, 21-VIII-2003 1, 1-IX-2004 4 and 11-IX-2004 8.

757. *Epinotia lindana* (Fern.) (3351. *Epinotia lindana* (Fern.)) (Diamondback Epinotia Moth) – 1-IX-2004 1, 7-IX-2004 1, 26A-VIII-2005 1, 10-IX-2006 1, 29-IX-2008 1 and 25-IX-2010 1.

Tortricidae, Olethreutinae, Grapholitini

Dichrorampha sp. – 5-VI-2005 1.

767. *Grapholita packardi* Zell. (3428. *Grapholita packardi* Zell.) (Cherry Fruitworm Moth) – 14-VI-2001 1.

770. *Grapholita lunatana* Wlsm. (3437. *Grapholita lunatana* Wlsm.) – 3-V-2005 1.

776. *Cydia strobilella* (L.) (3466. *Cydia youngana* (Kft.)) – 9-VIII-2001 1.

779. *Cydia populana* (Bsk.) (3463. *Cydia populana* (Bsk.)) – 17-VII-2005 1 and 18-VII-2007 2.

780. *Cydia flexiloqua* (Heinr.) (3465. *Cydia flexiloqua* (Heinr.)) – 12-VIII-2001 1, 22-VI-2002 1, 22-VII-2005 2 and 29-VII-2005 1.

781. *Cydia nigricana* (F.) (3467. *Cydia nigricana* (F.) (Pea Moth)) – 24-IX-2009 1 and 22-VI-2011 1.

783. *Cydia lautiuscula* (Heinr.) (3480. *Cydia lautiuscula* (Heinr.)) – 2-VI-2006 2 and 3-VII-2008 1.

ALUCITIDAE – Many-plumed Moths

792. *Alucita montana* Barnes & Lindsey (2313. *Alucita hexadactyla* L.) – 21-VII-2000 1, 11-IX-2000 1, 14-IX-2000 1, 2-IX-2000 2, 16-X-2002 1, 15-VIII-2003 1, 30-V-2005 1, 24-IX-2009 1, 25-IX-2020 2 and 4-VI-2011 1.

PTEROPHORIDAE – Plume Moths

Species indet. – 18-VII-2007 1.

Pterophoridae, Pterophorinae, Platyptiliini

812. *Amblyptilia pica* (Wlsm.) (6118. *Amblyptilia pica* (Wlsm.)) (Geranium Plume Moth) – 9-VII-2001 1.

Pterophoridae, Pterophorinae, Oxyptilini

818. *Trichoptilus lobidactylus* (Fitch) (6102. *Dejongia lobidactyla* (Fitch)) – 3-VII-2008 1.

Pterophoridae, Pterophorinae, Oidaematophorini

824. *Hellinsia pectodactylus* (Staud.) (6205. *Hellinsia pectodactylus* (Staudinger)) – 20-VII-2002 1, 21-VII-2004 1, 17-VII-2005 1 and 2-IX-2011 1.

833. *Oidaematophorus mathewianus* (Zell.) (6166. *Oidaematophorus mathewianus* (Zell.)) (Mathew's Plume Moth) – 22-VII-2005 2.

CARPOGINIDAE – Carposinid Moths

845. *Bondia comonana* (Kft.) (2318. *Bondia comonana* (Kft.)) – 20-VI-2009 2 and 22-VI-2011 1.

846. *Bondia crescentella* (Wlsm.) (2319. *Bondia crescentella* (Wlsm.)) – 10-V-2006 1.

PYRALIDAE – Pyralid Moths

Pyralidae, Pyralinae, Pyralini

849. *Pyralis farinalis* (L.) (5510. *Pyralis farinalis* L.) (Meal Moth) – 10-IX-2003 1.
 854. *Dolichomia olinalis* (Gn.) (5533. *Herculia olinalis* (Gn.)) (Yellow-fringed Dolichomia Moth) – 8-VII-2000 1.

Pyralidae, Epipaschiinae

857. *Pococera aplastella* (Hulst) (5605. *Tetralopha aplastella* (Hulst)) (Aspen Webworm Moth) – 22-VI-2002 1 and 3-VII-2002 1.
 858. *Pococera aplastella* (Clem.) (5606. *Tetralopha asperatella* (Clem.)) (Maple Webworm Moth) – 22-VI-2002 1, 3-VII-2002 2, 10-VII-2004 1, 2-VI-2006 1 and 3-VII-2008 1.

Pyralidae, Phycitinae, Phycitini

861. *Acrobasis tricolorella* Grt. (5655. *Acrobasis tricolorella* Grt.) (Tricolored Acrobasis Moth) – 21-VII-2000 1 and 29-VI-2004 1.
 863. *Myelopsis minutularia* (Hulst) (5719. *Myelopsis coniella* (Rag.)) – 21-VII-2004 2, 6-VIII-2004 1, 22-VII-2005 1, 20-VI-2007 1, 24-VII-2008 3 and 23-IX-2011 1.
 864. *Myelopsis subtetricella* (Reg.) (5718. *Myelopsis subtetricella* (Rag.)) – 21-VI-2000 1, 9-VIII-2000 1, 12-VIII-2000 1, 21-VIII-2000 2, 24-VIII-2000 1, 5-IX-2000 2, 14-IX-2000 1, 6-VII-2001 1, 6-VIII-2001 1, 12-VIII-2001 1, 28-VIII-2001 2, 29-IX-2001 1, 5-VI-2005 1, 26-IV-2006 1, 2-VI-2006 1, 24-VII-2008 1 and 23-IX-2009 1.
 865. *Apomyelois bistriatella* (Hulst) (5721. *Apomyelois bistriatella* (Hulst)) – 18-VII-2007 1, 12-VII-2008 2, 4-VIII-2008 1 and 25-VIII-2009 1.
 866. *Eulogia ochrifrontella* (Zell.) (5999. *Eulogia ochrifrontella* (Zell.)) (Broad-banded Eulogia Moth) – 2-VII-2000 1, 8-VII-2000 1, 12-VII-2000 3, 11-VIII-2000 1, 1-VIII-2001 1, 3-VII-2002 1, 14-VII-2003 1, 16-VII-2004 1, 21-VII-2004 1, 17-VII-2005 1, 22-VII-2005 2 and 24-VII-2008 1.
 870. *Vitula seratilineella* Rag. (6007c. *Vitula seratilineella* Rag.) – 24-VI-2003 1, 30-VI-2003 1, 31-VIII-2003 1, 10-VII-2004 1, 16-V-2005 1, 16C-VI-2005 1, 24-VI-2005 1, 25A-VI-2005 1, 8-V-2007 1, 26B-V-2007 1, 9-V-2010 1, 21-V-2010 1 and 4-VI-2011 1.
 872. *Plodia interpunctella* (Hbn.) (6019. *Plodia interpunctella* (Hbn.)) (Indian Meal Moth) – 23-III-2010 1, 5-IV-2010 1, 10-IV-2010 1, 7-V-2010 1, 11-V-2010 1, 24-V-2010 1 and 3-VI-2010 1.
 880. *Pima boisduvaliella* (Gn.) (5746. *Pima boisduvaliella* (Gn.)) – 22-VI-2002 1.
 881. *Pima fulvirugella* Rag. (5751. *Pima fulvirugella* Rag.) – 30-V-2005 1.
 890. *Meroptera pravella* (Grt.) (5787. *Meroptera pravella* (Grt.)) (Lesser Aspen Webworm Moth) – 24-V-2001 1, 14-VI-2001 1, 18-VI-2001 1, 22-VI-2002 2, 3-VII-2002 2, 19-VI-2003 1, 24-VI-2003 1, 10-VII-2004 1, 3-V-2005 2, 16C-VI-2005 3, 24-VI-2005 1, 1-VII-2005 1, 17-VII-2005 1, 22-VII-2005 1, 2-VI-2006 2, 23-VI-2006 1, 20-VI-2007 2, 3-VII-2008 1, 20-VI-2009 1 and 5-VI-2010 1.
 891. *Sciota basilaris* Zell. (5799. *Nephopterix basilaris* Zell.) – 6-VII-2001 1, 22-VI-2002 1, 14-VII-2003 2, 10-VII-2004 2, 2-VI-2006 1, 20-VI-2007 1 and 3-VII-2008 1.
 896. *Telethusia ovalis* (Pack.) (5812. *Telethusia ovalis* (Pack.)) – 14-VII-2003 1.
 901. *Pyla aeiginatica* Heinr. (5827. *Pyla aeiginatica* Heinr.) – 15-VII-2002 1.
 903. *Pyla fusca* (Haw.) (5829. *Pyla fusca* (Haw.)) (Speckled Black Pyla Moth) – 2-VI-2000 1, 2-VII-2000 1, 8-VII-2000 1, 5-IX-2000 2, 21-VIII-2001 1, 8-IX-2002 1, 19-VI-2003 1, 28-VII-2003 1, 21-VIII-2003 1, 10-VII-2004 2, 24-VI-2005 1, 22-VII-2005 1, 2-IX-2005 1 and 9-IX-2011 1.
 906. *Dioryctria abietivorella* (Grt.) (5841. *Dioryctria abietivorella* (Grt.)) (Evergreen Coneworm Moth) – 12-VII-2000 1, 21-VII-2000 1, 14-VII-2003 2, 17-VII-2005 1, 3-VII-2008 1, 12-VII-2008 2 and 24-

VII-2008 1. Both *D. abietivorella* and *D. reniculelloides* have been identified from Erskine but they are notoriously difficult to distinguish without genitalic examination (Sopow et al. 1996). Amanda Roe identified the following Erskine specimens as *abietivorella*: 12-VII-2000 (BIRD211), 21-VII-2000 (BIRD212), 14-VII-2003 (BIRD1508, 1509). Caroline Whitehouse later identified the following additional specimens as *abietivorella*: 12-VII-2004 (BIRD23222, 23223), 17-VII-2005 (BIRD30709) and 24-VII-2008 (BIRD23225). Caroline identified one specimen as *reniculelloides*: 3-VII-2008 (BIRD23221). As none of the above specimens were examined genitalically, it may be best to refer to them as simply *Dioryctria* sp.

- 907. *Dioryctria reniculelloides* Mut. & Mun. (5843. *Dioryctria reniculelloides* Mutuura & Mun.) (Spruce Coneworm Moth) – 14-VII-2003 1.
- 918. *Hulstia undulatella* (Clem.) (5918. *Hulstia undulatella* (Clem.)) (Sugarbeet Crown Borer Moth) – 24-VIII-2000 1 and 11-VI-2008 1.
- 920. *Zophodia grossulariella* (Hbn.) (5968. *Zophodia convolutella* (Hbn.)) (Gooseberry Fruitworm Moth) – 4-V-2001 1, 13-V-2001 1, 1-VI-2004 1, 25-IV-2005 1, 26-IV-2006 1, 8-V-2007 1, 26B-V-2007 1 and 13-V-2008 1.
- 928. *Phycitoides mucidella* (Rag.) (5946. *Phycitoides mucidellum* (Rag.)) – 22-V-2000 1, 2-IX-2002 1, 18-VII-2007 1 and 10-VIII-2010 1.

Pyralidae, Phycitinae, Anerastiini

- 930. *Anerastia lotella* (Hbn.) (6038. *Anerastia lotella* (Hbn.)) – 27C-VII-2003 1.

CRAMBIDAE – Snout Moths

Crambidae, Scopariinae

- 935. *Scoparia biplagialis* Wlk. (4716. *Scoparia biplagialis* Wlk.) (Double-striped Scoparia Moth) – 1-VIII-2000 1, 9-VIII-2000 1, 11-VIII-2000 1, 1-VIII-2001 1, 5-VIII-2002 1, 2-IX-2002 1, 27C-VII-2003 1, 22-VII-2005 1, 10-VIII-2006 1, 12-VII-2008 1 and 25-VIII-2009 1.
- 937. *Eudonia albentalis* (Dyar) (4727. *Eudonia albentalis* (Dyar)) – 5-VI-2010 1.
- 939. *Eudonia alpina* (Curt.) (4737. *Eudonia lugubralis* (Wlk.)) – 11-VI-2008 1.

Crambidae, Crambinae, Haimbachiiini

- 941. *Occidentalia comptulatilis* (Hulst) (5474. *Acigona comptulatilis* (Hulst)) (Acigona Moth) – 12-VII-2000 1.

Crambidae, Crambinae, Crambini

- 948. *Chrysoteuchia topiarius* (Zell.) (5391. *Chrysoteuchia topiaria* (Zell.)) (Cranberry Girdler or Topiary Grass-veneer Moth) – 27-VI-2000 2, 28-VI-2000 1, 2-VII-2000 1, 8-VII-2000 2, 12-VII-2000 1, 6-VII-2001 1, 9-VII-2001 1, 22-VI-2002 1, 3-VII-2002 6, 14-VII-2003 1, 25-VI-2004 3, 29-VI-2004 2, 10-VII-2004 1, 22-VII-2005 1, 20-VI-2007 1, 3-VII-2008 1, 12-VII-2008 1, 20-VI-2009 1, 22-VI-2011 1 and 27-VI-2011 1.
- 953. *Crambus perlella* (Scop.) (5343a. *Crambus perlellus innotatellus* (Wlk.)) (Immaculate Grass-veneer Moth) – 2-VII-2000 1, 12-VII-2000 4, 21-VII-2000 1, 9-VIII-2000 1, 6-VII-2001 2, 1-VIII-2001 1, 6-VIII-2001 1, 12-VIII-2001 1, 3-VII-2002 2, 15-VII-2002 1, 20-VII-2002 1, 14-VII-2003 2, 10-VII-2004 1, 16-VII-2004 1, 21-VII-2004 1, 6-VIII-2004 1, 22-VII-2005 2, 29-VII-2005 1, 12-VII-2008 1, 10-VIII-2010 1, 27-VI-2011 1, 1-VII-2011 1 and 23-VII-2011 1.

954. *Crambus unistriatellus* Pack. (5344. *Crambus unistriatellus* Pack.) (Wide-stripe Grass Veneer Moth) – 12-VII-2000 1 and 21-VII-2000 1.
955. *Crambus whitmerellus browni* Klots (5345a. *Crambus whitmerellus browni* Klots) – 24-VI-2003 1 and 27-VI-2011 1.
959. *Crambus ainsliellus* Klots (5354. *Crambus ainsliellus* Klots) – 9-VIII-2000 1, 12-VIII-2000 1, 24-VIII-2000 1, 25-VIII-2000 2, 6-VIII-2001 1, 12-VIII-2001 3, 21-VIII-2001 2, 28-VIII-2001 1, 2-IX-2002 4, 18-IX-2002 1, 1-IX-2004 10, 4-IX-2004 1, 7-IX-2004 1, 26A-VIII-2005 7, 2-IX-2005 1, 10-VIII-2006 1, 25-VIII-2009 1 and 11-IX-2009 1. Some of the above may be *Crambus leachellus*, to which it is similar.
967. *Agriphila ruricolellus* (Zell.) (5399. *Agriphila ruricolella* (Zell.)) (Lesser Vagabond Sod Webworm) – 21-VII-2000 1, 9-VIII-2000 1, 23-VII-2001 2, 6-VIII-2001 1, 20-VII-2002 1, 5-VIII-2002 3, 12-VIII-2002 2, 28-VII-2003 1, 21-VIII-2003 2, 28-VII-2004 2, 6-VIII-2004 1, 18-VIII-2004 1, 17-VII-2005 4, 22-VII-2005 4, 29-VII-2005 1, 18-VII-2007 1, 12-VII-2008 1, 4-VIII-2008 1, 25-VIII-2009 1, 11-IX-2009 1, 10-VIII-2010 2, 23-VII-2011 3 and 2-VIII-2011 2.
968. *Agriphila vulgivagellus* (Clem.) (5403. *Agriphila vulgivagella* (Clem.)) (Vagabond Crambus Moth) – 10-VIII-2010 1.
970. *Neodactria luteolellus* Clem. (5379. *Neodactria luteolella* Clem.) (Mottled Grass-veneer Moth) – 16-VII-2004 1, 1-VII-2005 1 and 22-VII-2005 1.
- Pediasia* spp. – 14-VII-2003 1 and 10-VII-2004 1. These are females of either *Pediasia aridella edmontella* or *P. ericella*.
976. *Pediasia trisecta* (Wlk.) (5413. *Pediasia trisecta* (Wlk.)) – 1-VIII-2000 1, 9-VIII-2000 1, 11-VIII-2000 1, 12-VIII-2000 2, 25-VIII-2000 1, 1-VIII-2001 3, 6-VIII-2001 1, 12-VIII-2001 6, 21-VIII-2001 2, 28-VIII-2001 1, 5-VIII-2002 1, 2-IX-2002 6, 15-VIII-2003 5, 21-VIII-2003 4, 31-VIII-2003 2, 28-VII-2004 1, 6-VIII-2004 1, 18-VIII-2004 1, 26-VIII-2004 5 SR, 1-IX-2004 11 SR, 29-VII-2005 1, 26A-VIII-2005 2, 2-IX-2005 1, 20-VIII-2006 1, 4-VIII-2008 1, 25-VIII-2009 1, 10-VIII-2010 1 and 16-VIII-2011 1.
978. *Pediasia ericellus* (B. & McD.) (5415. *Pediasia ericella* (B. & McD.)) – 9-VII-2001 2, 12-VIII-2001 1, 14-VII-2003 1 and 15-VIII-2003 1.
980. *Pediasia dorsipunctellus* (Kft.) (5417. *Pediasia dorsipunctella* (Kft.)) – 2-VII-2000 1, 8-VII-2000 1, 12-VII-2000 7, 20-VII-2000 2, 21-VII-2000 2, 26-VII-2000 5, 1-VIII-2000 3, 6-VII-2001 4, 9-VII-2001 1, 1-VIII-2001 2, 6-VIII-2001 2, 3-VII-2002 2, 15-VII-2002 1, 20-VII-2002 2, 12-VIII-2002 3, 30-VI-2003 2, 14-VII-2003 2, 27-VII-2003 1, 28-VII-2003 1, 15-VIII-2003 4, 21-VIII-2003 1, 29-VI-2004 2, 10-VII-2004 1, 21-VII-2004 1, 27-VII-2004 lots, 28-VII-2004 2, 6-VIII-2004 2, 18-VIII-2004 1, 17-VII-2005 1, 22-VII-2005 1, 29-VII-2005 2, 13C-VIII-2005 1, 18-VII-2007 1, 12-VII-2008 1, 4-VIII-2008 1, 25-VIII-2009 1, 10-VIII-2010 1, 25-IX-2010 1, 23-VII-2011 3 and 2-VIII-2011 1.
983. *Thaumatopsis pexella coloradella* Kft. (5439b. *Thaumatopsis pexella coloradella* Kft.) – 10-IX-2003 1.

Crambidae, Schoenobiinae

985. *Donacaaula melinellus* (Clem.) (5316b. *Donacaaula melinella albicostella* (Fern.)) (Delightful Donacaaula Moth) – 1-VIII-2001 1.

Crambidae, Acentropinae, Acentropini

987. *Acentria ephemerella* (Denis & Schiff.) (5299. *Acentria nivea* (Olivier)) (Water Veneer Moth) – 4-VIII-2008 1.

Crambidae, Acentropinae, Nymphulini

989. *Synclita oblitalis* (Wlk.) 4755. *Synclita oblitalis* (Wlk.) (Waterlily Leafcutter Moth) – 6-VIII-2004 1, 29-VII-2005 1 and 10-VIII-2010 1.

Crambidae, Acentropinae, Argyractini

991. *Petrophila kearfottalis* (B. & McD.) (4773. *Petrophila kearfottalis* (B. & McD.)) – 20-VII-2000 1, 16-VII-2004 1 and 10-VIII-2010 1.

Crambidae, Evergestinae

995. *Evergestis pallidata* (Hufn.) (4897. *Evergestis pallidata* (Hufn.)) (Purple-backed Cabbageworm Moth) – 3-VII-2002 1, 15-VII-2002 1, 31-VIII-2003 1, 24-VII-2008 1 and 2-VIII-2011 1.

Crambidae, Pyraustinae, Pyraustini

1012. *Perispasta caeculalis* Zell. (4951. *Perispasta caeculalis* Zell.) (Titian Peale's Pyralid Moth) – 6-VII-2001 1, 22-VI-2002 1, 3-VII-2002 1 and 10-VII-2004 1.

1013. *Anania coronata* (Hufn.) (4953. *Phlyctaenia coronata* (Hufn.)) (Crowned Phlyctaenia Moth) – 2-VII-2000 1, 3-VII-2002 3 and 20-VI-2009 1.

1018. *Sitochroa chortalis* (Grt.) (4987. *Sitochroa chortalis* (Grt.)) (Sitochroa Moth) – 12-VII-2000 1 and 22-VI-2002 1.

1021. *Loxostege sticticalis* (L.) (5004. *Loxostege sticticalis* (L.)) (Beet Webworm) – 14-VI-2001 1, 12-VIII-2001 3, 15-VII-2002 1, 4-VI-2003 1, 13-VI-2003 1, 19-VI-2003 1, 24-VI-2003 1, 15-VIII-2003 1, 31-VIII-2003 1, 10-VII-2004 1, 3-VI-2005 1, 16C-VI-2005 2, 24-VI-2005 1, 2-VI-2006 1, 3-VII-2008 1 and 12-VII-2008 1.

1026. *Pyrausta nicalis* (Grt.) (5032. *Pyrausta nicalis* (Grt.)) – 12-VII-2000 1, 21-VII-2000 1 and 1-VII-2005 1.

1034. *Pyrausta unifascialis* (Pack.) (5068. *Pyrausta unifascialis* (Pack.)) (Pussytoes Pyrausta Moth) – 20-VI-2009 1.

1035. *Pyrausta fodinalis* (Led.) (5074. *Pyrausta fodinalis* (Led.)) – 14-VII-2003 1.

Crambidae, Pyraustinae, Spilomelini

1039. *Choristostigma plumbosignalis* (Fern.) (5128. *Choristostigma plumbosignalis* (Fern.)) – 12-VII-2000 3 and 14-VII-2003 1.

1045. *Udea itysalis* (Wlk.) (5099. *Udea itysalis* (Wlk.)) – 15-VII-2002 1 and 12-VII-2008 1.

1052. *Mecyna submedialis* (Grt.) (5135. *Mecyna submedialis* (Grt.)) (Orange-toned Mecyna Moth) – 20-VII-2000 1, 22-VI-2002 2, 3-VII-2002 1, 29-VI-2004 3, 20-VII-2004 1, 22-VII-2005 1, 20-VI-2007 1 and 3-VII-2008 1.

1054. *Nomophila nearctica* Mun. (5156. *Nomophila nearctica* Mun.) (Lucerna Moth or Celery Stalkworm Moth) – 9-VIII-2000 1, 1-VIII-2001 1, 5-VIII-2001 1, 12-VIII-2001 1, 16-IX-2001 1, 23-IX-2001 1, 25-IX-2001 3, 29-IX-2001 4, 10-X-2001 1 and 31-VIII-2003 1.

PAPILIONIDAE – Swallowtails

Papilionidae, Papilioninae, Papiliopini

1091. *Papilio canadensis* Roth. & Jord. (4176a. *Papilio glaucus canadensis* R. & J.) (Tiger Swallowtail) – several sight records.

PIERIDAE – Whites, Marbles & Sulphurs**Pieridae, Pierinae, Pierini**

1114. *Pieris rapae* (L.) (4197. *Pieris rapae* (L.)) (Cabbage White) – 3-V-2005 1.

LYCAENIDAE – Coppers, Hairstreaks and Blues**Lycaenidae, Polyommatainae, Polyomatini**

1143. *Celastrina lucia* (Kby.) (4363. *Celastrina ladon* (Cram.)) (Spring Azure) – 3-V-2005 1.

NYMPHALIDAE – Fritillaries and Angle-wings**Nymphalidae, Nymphalinae, Nymphalini**

1194a. *Polygonia faunus* faunus (Edw.) (4423. *Polygonia faunus* Edw.) – 17-IV-2008 photograph.

SATYRIDAE – Satyrs and Woodnymphs**Satyridae, Satyrinae, Satyrini**

1213a. *Coenonympha inornata benjamini* McD. (4583b. *Coenonympha inornata benjamini* McD.) (Common Ringlet) – 25-VI-2004 1.

DREPANIDAE – Thyatirid and Hooktip Moths**Drepanidae, Thyatirinae, Habrosyninae**

1231. *Habrosyne scripta* (Gosse) (6235. *Habrosyne scripta* (Gosse)) (The Scribe or Lettered Habrosyne) – 14-VI-2001 1, 6-VII-2001 1, 20-VI-2007 1, 3-VII-2008 1 and 22-VI-2011 1.

Drepanidae, Thyatirinae, Macrothyatirini

1233. *Euthyatira pudens* (Gn.) (6240. *Euthyatira pudens* (Gn.)) (Dogwood Thyatira) – 9-V-2001 1, 17-V-2002 1, 1-VI-2002 1, 20-V-2003 1, 1-V-2004 1, 25-IV-2005 1, 8-V-2007 1, 6-V-2008 2 and 13-V-2010 1.

Drepanidae, Thyatirinae, Ceranemotini

1234. *Ceranemota albertae* Clarke (6248. *Ceranemota albertae* Clarke) (Alberta Lutestring) – 2-IX-2002 1, 31-VIII-2003 1, 4-IX-2004 1, 7-IX-2004 1 and 2-IX-2005 1.

Drepanidae, Drepaninae, Drepanini

1238. *Eudeilinea herminiata* (Gn.) (6253. *Eudeilinea herminiata* (Gn.)) (Northern Eudeilinea) – 30-VI-2003 1 and 3-VII-2008 1.

URANIIDAE – Scoopwing Moths

Uraniidae, Epipleminae

1240. *Callizia amorata* (Pack.) (7650. *Callizia amorata* (Pack.)) (Gray Scoopwing) – 3-VII-2002 1.

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

1241. *Dysstroma citrata* (L.) (7182. *Dysstroma citrata* (L.)) (Dark Marbled Carpet) – 1-VIII-2001 1, 12-VIII-2001 1, 28-VIII-2001 1, 21-VIII-2003 1, 26A-VIII-2005 1, 10-VIII-2010 1 and 9-IX-2011 1.

1247. *Dysstroma hersiliata* (Gn.) (7189. *Dysstroma hersiliata* (Gn.)) (Orange-barred Carpet) – 21-VII-2000 1, 17-VII-2005 1, 22-VII-2005 1, 22-VI-2011 1 and 27-VI-2011 1.

1250. *Dysstroma brunneata* (Pack.) (7194. *Dysstroma brunneata*) (Pack.) (Handsome Carpet) – 22-VII-2005 1.

1252. *Eulithis propulsata* (Wlk.) (7199. *Eulithis propulsata* (Wlk.)) (Barred Yellow or Currant Eulithis) – 12-VIII-2001 2, 15-VII-2002 1 and 22-VII-2005 1.

1253. *Eulithis testata* (L.) (7201. *Eulithis testata* (L.)) (Chevron Moth) – 12-VIII-2001 2 and 1-IX-2004 1.

1255. *Eulithis flavibrunneata* (McD.) (7205. *Eulithis flavibrunneata* (McD.)) – 6-VIII-2001 1.

1257. *Eulithis xyloina* (Hulst) (7207. *Eulithis xyloina* (Hulst)) (The Phoenix) – 6-VII-2001 1, 26-VII-2002 1, 14-VII-2003 1, 10-VII-2004 1, 16-VII-2004 1, 21-VII-2004 3, 17-VII-2005 1, 29-VII-2005 1, 18-VII-2007 1, 12-VII-2008 1, 4-VIII-2008 1 and 23-VII-2011 1.

1260. *Ecliptopera silaceata* (D. & S.) (7213. *Ecliptopera silaceata* (D. & S.)) (Small Phoenix) – 2-VI-2006 1.

1262. *Plemyria georgii* (Wulst) (7216. *Plemyria georgii* (Hulst)) (Eyed Carpet) – 23-VII-2001 1 and 12-VIII-2001 1.

1263. *Thera juniperata* (L.) (7217. *Thera juniperata* (L.)) (Evergreen Spanworm) – 19-X-2000 1, 10-X-2001 1, 28-IX-2005 2, 29-IX-2008 2 and 23-IX-2011 4.

Geometridae, Larentiinae, Hydriomenini

1267. *Hydriomena perfracta* Swett (7229. *Hydriomena perfracta* Swett) (Marbled Carpet) – 13-V-2001 1, 18-VI-2001 1, 8-VI-2004 1, 16-V-2005 2, 3-VI-2005 1, 2-VI-2006 2 and 20-VI-2007 1.

1271. *Hydriomena ruberata* (Frey.) (7254. *Hydriomena ruberata* (Frey.)) – 22-V-2000 1, 13-V-2001 1, 1-VI-2002 3, 10-VI-2002 2, 2-VI-2006 1, 11-VI-2008 1 and 2-VI-2009 1.

1273. *Hydriomena furcata* (Thunb.) (7257. *Hydriomena furcata* (Thunb.)) (Common Highflyer) – 9-VIII-2000 1, 23-VII-2001 1, 12-VIII-2001 1, 5-VIII-2002 1, 2-IX-2002 1, 28-VII-2003 1, 18-VIII-2004 1, 22-VII-2005 1, 10-VIII-2010 1 and 23-VII-2011 1.

1275. *Triplosa haesitata* (Gn.) (7285. *Triplosa haesitata* (Gn.)) (Brown Tissue Moth) – 1-VI-2002 1 and 10-VI-2002 1.

1277. *Rheumaptera undulata* (L.) (7291. *Hydria undulata* (L.)) (Scallop Shell) – 15-VII-2002 1 and 20-VII-2002 1.

1286. *Spargania luctuata* (D. & S.) (7313. *Spargania luctuata* (D. & S.)) (White-barred Black) – 14-VII-2003 1.

1290. *Anticlea vasiliata* Gn. (7329. *Anticlea vasiliata* Gn.) (Variable Carpet) – 13-V-2001 1, 1-VI-2002 1, 26-IV-2006 1, 1-V-2007 1 and 6-V-2008 3.

Geometridae, Larentiinae, Xanthorhoini

1304. *Xanthorhoe decoloraria* (Esper) (7384. *Xanthorhoe munitata* (Hbn.)) (American Carpet) – 16-VII-2004 2 and 22-VII-2005 1.
1306. *Xanthorhoe ferrugata* (Cl.) (7388. *Xanthorhoe ferrugata* (Cl.)) (Red Twin-spot) – 2-VII-2000 2, 14-VI-2001 2, 11-VI-2008 1 and 5-VI-2010 1.
1308. *Epirrhoe alternata* (Müller) (7394. *Epirrhoe alternata* (Müller)) (White-banded Toothed Carpet) – 12-VII-2000 1 and 20-VI-2009 1.
1309. *Epirrhoe plebeculata* (Gn.) (7395. *Epirrhoe plebeculata* (Gn.)) (Orange-winged Carpet) – 7-V-2007 1.
1310. *Epirrhoe sperryi* Herbuleot (7396. *Epirrhoe sperryi* Herbuleot) (Small Argent & Sable) – 4-VIII-2008 1.
1311. *Euphyia intermediata* (Gn.) (7399a. *Epirrhoe intermediata* (Gn.)) (Sharp-angled Carpet) – 18-VI-2001 1, 30-VI-2003 1, 10-VII-2004 1, 16C-VI-2005 1, 23-VI-2006 2 and 12-VII-2008 1.
1312. *Zenophleps alpinata* Cass. (7408. *Zenophleps alpinata* Cass. (Wood-colored Carpet)) – 6-VIII-2001 1, 6-VIII-2004 1 and 29-VII-2005 1.
1314. *Orthonama obstipata* (F.) (7414. *Orthonama obstipata* (F.)) – 25-IX-2001 1.

Geometridae, Larentiinae, Asthenini

1316. *Hydrelia albifera* (Wlk.) (7423. *Hydrelia albifera* (Wlk.)) (Fragile White Carpet) – 20-VII-2002 1, 14-VII-2003 1 and 12-VII-2008 1.

Geometridae, Larentiinae, Operophterini

1324. *Operophtera bruceata* (Hulst) (7437. *Operophtera bruceata* (Hulst)) (Bruce Spanworm) – 11-X-2000 2, 16-X-2000 2, 1-X-2001 1, 10-X-2001 1, 16-X-2001 1, 16-X-2002 2, 26-X-2003 3, 14-IX-2006 2 and 23-X-2011 1.

Geometridae, Larentiinae, Eudelini

1325. *Eubaphe mendica* (Wlk.) (7440. *Eubaphe mendica* (Wlk.)) (The Beggar) – 12-VII-2000 1, 3-VII-2008 1 and 12-VII-2008 1.

Geometridae, Larentiinae, Eupitheciini

1326. *Horisme intestinata* (Gn.) (7445. *Horisme intestinata* (Gn.)) (Brown Bark Carpet) – 19-VI-2000 1, 14-VI-2001 1, 18-VI-2001 1, 6-VII-2001 2, 9-VII-2001 1, 22-VI-2002 2, 3-VII-2002 1, 30-VI-2003 1, 16-VII-2004 1, 24-VI-2005 1, 29-VII-2005 1, 3-VII-2008 1, 12-VII-2008 1 and 20-VI-2009 1.
- Eupithecia* spp. – 22-VI-2005 1, 16-VI-2005 1, 20-VI-2007 1, 13-V-2008 3, 12-VII-2008 1, 20-VI-2009 3, 5-VI-2010 1, 23-VI-2010 1, 22-VI-2011 1, 27-VI-2011 1 and 1-VII-2011 2. The determinations of most of the following species of *Eupithecia* were made by Dr. George Balogh.
1332. *Eupithecia columbiata* (Dyar) (7459. *Eupithecia columbiata* (Dyar)) (Columbia Pug) – 20-V-2005 1.
1336. *Eupithecia subfuscata* (Haw.) (7487. *Eupithecia subfuscata* (Haw.)) (Gray Pug) – 21-VI-2000 1, 2-VII-2000 1, 8-VII-2000 1, 14-VI-2001 1, 18-VI-2001 1, 22-VI-2002 2, 19-VI-2003 1, 9-VI-2004 2, 30-V-2005 1, 14-VI-2005 1, 24-VI-2005 1, 1-VII-2005 1 and 2-VI-2006 1.
1345. *Eupithecia anticaria* Wlk. (7594. *Eupithecia anticaria* Wlk.) – 22-VI-2002 1.
1346. *Eupithecia ravocostaliata* Pack. (7605. *Eupithecia ravocostaliata* Pack.) (Great Variegated Pug) – 13-V-2001 1, 1-VI-2002 2, 20-V-2003 3, 22-V-2003 1, 16-V-2005 3, 30-V-2005 1, 1-V-2007 1, 26B-V-2007 1 and 19-V-2010 1.
1353. *Eupithecia sheppardata* McD. (7494. *Eupithecia sheppardata* McD.) – 22-VI-2002 1.
1355. *Eupithecia satyrata* (Hbn.) (7520c. *Eupithecia satyrata dodata* Tayl.) (Alberta Pug) – 13-VI-2003 1.

1360. *Eupithecia assimilata* Dbldy. (7528. *Eupithecia fumosa* (Hulst)) – 18-VI-2001 1, 29-VII-2005 1 and

23-VI-2006 1.

1367. *Eupithecia lachrymosa* (Hulst) (7548. *Eupithecia lachrymosa* (Hulst)) – 6-VI-2003 1.

Geometridae, Larentiinae, Lobophorini

1376. *Lobophora nivigerata* (Wlk.) (7640. *Lobophora nivigerata* Wlk.) (Two-lined Aspen Looper) – 21-VI-2000 1, 2-VII-2000 1, 14-VI-2001 1, 9-VII-2001 1, 1-VI-2002 1, 22-VI-2002 1, 3-VII-2002 1, 15-VII-2002 1, 16-V-2005 1, 30-V-2005 1, 24-VI-2005 1, 1-VII-2005 1, 2-VI-2006 2, 20-VI-2007 1, 20-VI-2009 1, 23-VI-2010 1 and 27-VI-2011 1.

1377. *Lobophora magnoliotidata* (Dyar) (7643. *Lobophora magnoliotidata* (Dyar)) – 20-VI-2007 1.

Geometridae, Sterrhinae, Scopulini

1383. *Scopula limboundata* (Haw.) (7159. *Scopula limboundata* (Haw.)) (Large Lace-border) – 9-VII-2001 2, 17-VII-2005 1 and 22-VII-2005 1.

1386. *Scopula junctaria* (Wlk.) (7164. *Scopula junctaria* (Wlk.)) (Simple Wave) – 2-VII-2000 1, 6-VII-2001 1, 3-VII-2002 1, 14-VII-2003 2, 29-VI-2004 1, 16-VII-2004 1, 16C-VI-2005 1, 1-VII-2005 1, 23-VI-2006 1, 20-VI-2007 1 and 23-VI-2010 1.

1388. *Scopula frigidaria* (Mösch.) (7166. *Scopula frigidaria* Mösch.) (Frigid Wave) – 19-VI-2003 1.

1390. *Scopula inductata* Gn. (7169. *Scopula inductata* Gn.) (Soft-lined Wave) – 12-VIII-2001 1, 15-VII-2002 1 and 20-VI-2009 1.

Geometridae, Geometrinae, Nemoriini

1394. *Nemoria unitaria* (Pack.) (7018. *Nemoria unitaria* (Pack.)) (Single-lined Emerald) – 12-VII-2000 1, 9-VII-2001 1, 15-VII-2002 1, 14-VII-2003 1, 12-VII-2008 2 and 23-VII-2011 2.

Geometridae, Geometrinae, Synchlorini

1399. *Synchroa aerata* (F.) (7058. *Synchroa aerata* (F.)) (Wavy-lined Emerald) – 12-VII-2000 1.

Geometridae, Ennomiinae, Cassymini

1405. *Nematocampa resistaria* (H.-S.) (7009. *Nematocampa resistaria* (H.-S.)) (Horned Spanworm Moth) – 28-VII-2004 1, 6-VIII-2004 1, 29-VII-2005 1, 18-VII-2007 1, 4-VIII-2008 1, 10-VIII-2010 1 and 2-VIII-2011 1.

Geometridae, Ennomiinae, Cassymini

1406. *Protitame virginalis* (Hulst) (6270. *Protitame virginalis* (Hulst)) (Virgin Moth) – 14-VI-2001 2, 18-VI-2001 1, 8-VI-2004 1, 20-VI-2004 1, 16C-VI-2005 1, 24-VI-2005 1, 2-VI-2006 2, 20-VI-2007 1 and 20-VI-2009 1.

Geometridae, Ennomiinae, Macariini

1408. *Eumacaria madopata* (Gn.) (6272. *Eumacaria latiferrugata* (Wlk.)) (Brown-bordered Geometer) – 30-VII-2008 1.

1412. *Speranza exauspicata* (Wlk.) (6292. *Macaria exauspicata* (Wlk.)) (Speckled Granite) – 17-VII-2005 1 and 22-VII-2005 1.

1414. *Speranza bitactata* (Wlk.) (6304. *Macaria bitactata* (Wlk.)) – 28-VII-2004 1.
1416. *Speranza occiduaria* (Pack.) (6279. *Macaria occiduaria* (Pack.)) (Western Sulphur) – 1-VII-2005 1 and 17-VII-2005 1.
1421. *Speranza loricaria* (Evers.) (6290. *Macaria loricaria* (Evers.)) (False Bruce Spanworm) – 12-VII-2000 1, 26-VII-2000 1, 3-VII-2002 1, 19-VI-2003 1, 30-VI-2003 1, 14-VII-2003 1, 10-VII-2004 1, 16C-VI-2005 1, 24-VI-2005 1 and 1-VII-2005 1.
1424. *Macaria notata* (L.) (6330. *Semiothisa ulsterata* (Pears.)) – 22-VI-2011 1.
1429. *Macaria signaria* (Hbn.) (6344. *Semiothisa signaria* (Hbn.)) (Pale-marked Angle) – 2-VI-2006 1.
1436. *Digrammia rippertaria* (Dup.) (6394. *Semiothisa hebetata* (Hulst)) – 6-VII-2001 1, 22-VI-2002 1 and 16C-VI-2005 1.
1438. *Digrammia mellistrigata* (Grt.) (6397. *Semiothisa mellistrigata* (Grt.)) – 16C-VI-2005 1, 2-VI-2006 1 and 20-VI-2007 1.
1440. *Digrammia neptaria* (Gn.) (6396. *Semiothisa neptaria* (Gn.)) – 1-IX-2004 1.

Geometridae, Ennomiinae, Boarmiini

1455. *Ectropis crepuscularia* (D. & S.) (6597. *Ectropis crepuscularia* (D. & S.)) (The Small Engrailed) – 13-V-2001 1, 14-VI-2001 1, 1-V-2004 1, 20-VI-2009 1, 22-VI-2011 1 and 1-VII-2011 2.
1456. *Protoboarmia porcelaria* (Gn.) (6598. *Protoboarmia porcelaria* (Gn.)) (Speckled Carpet) – 21-VI-2006 1, 20-VI-2007 1 and 3-VII-2008 1.

Geometridae, Ennomiinae, Bistonini

1460. *Biston betularia* (L.) (6640. *Biston betularia* (L.)) (Salt-and-Pepper Moth) – 8-VII-2000 1, 22-VI-2002 1, 13-VI-2003 1, 1-VII-2005 1, 3-VII-2008 and 23-VI-2011 1.
1461. *Lycia ursaria* (Wlk.) (6651. *Lycia ursaria* (Wlk.)) (The Bear or Stout Spanworm Moth) – 2-V-2005 1, 6-V-2005 and 27-IV-2007 1.
1467. *Erannis tiliaria* (Harr.) (6665. *Erannis tiliaria* (Harr.)) (Linden Looper Moth) – 29-IX-2001 2, 18-IX-2002 1, 26-IX-2003 3, 14-IX-2004 1, 21-IX-2004 3, 12-IX-2005 1, 28-IX-2005 1, 10-IX-2006 1 and 29-IX-2008 1.

Geometridae, Ennomiinae, Caberini

1472. *Cabera erythema* Gn. (6677. *Cabera erythema* Gn.) (Yellow-dusted Cream Moth) – 14-VI-2001 1, 18-VI-2001 2, 6-VII-2001 2, 9-VII-2001 2, 22-V-2002 1, 3-VII-2002 2, 30-VI-2003 1, 14-VII-2003 1, 10-VII-2004 1, 16-VII-2004 1, 5-VI-2005 1, 24-VI-2005 1, 23-VI-2006 1, 18-VII-2007 1, 3-VII-2008 1, 12-VII-2008 1 and 22-VI-2011 1.
1473. *Cabera variolaria* Gn. (6678. *Cabera variolaria* Gn.) (Pale-striped Willow Spanworm) – 28-VI-2000 1, 8-VII-2000 1, 12-VII-2000 1, 14-VI-2001 2, 6-VIII-2001 1, 15-VII-2002 2, 20-VII-2002 1, 13-VI-2003 1, 15-VIII-2003 1, 21-VIII-2003 1, 20-VI-2004 1, 21-VII-2004 1, 16C-VI-2005 1, 1-VII-2005 1, 23-VI-2006 1, 12-VII-2008 1, 22-VI-2011 1, 27-VI-2011 1, 1-VII-2011 1 and 21-VII-2011 1.

Geometridae, Ennomiinae, Angeronini

1482. *Euclaena obtusaria* (Hbn.) (6726. *Euchlaena obtusaria* (Hbn.)) (Obtuse Euchlaena) – 12-VII-2000 1, 16-VII-2001 3, 3-VII-2002 2, 14-VI-2003 1, 29-VI-2004 1, 10-VII-2004 1 and 12-VII-2008 1.
1483. *Euchlaena johnsonaria* (Fitch) (6729. *Euchlaena johnsonaria* (Fitch)) (Johnson's Euchlaena) – 6-VII-2001 1, 30-VI-2003 1, 14-VII-2003 1, 16-VII-2004 1, 22-VII-2005 1, 3-VII-2008 1 and 12-VII-2008 1.

1486. *Euchlaena tigrinaria* (Gn.) (6737. *Euchlaena tigrinaria* (Gn.)) (Mottled Euchlaena or Variable Thorn) – 28-VI-2000 1, 2-VII-2000 1, 8-VII-2000 1, 29-VI-2004 1, 10-VII-2004 1, 1-VII-2005 1, 23-VI-2006 1, 3-VII-2008 1, 12-VII-2008 1 and 23-VII-2011 1.

1487. *Xanthotype urticaria* Swett (6740. *Xanthotype urticaria* Swett) – 6-VII-2001 1.

1488. *Xanthotype sospeta* (Drury) (6743. *Xanthotype sospeta* (Drury)) (Crocus Geometer) – 12-VII-2000 1, 16-VII-2001 2, 3-VII-2002 1, 15-VII-2002 1, 10-VII-2004 1, 17-VII-2005 1, 23-VI-2006 1, 3-VII-2008 1 and 12-VII-2008 1.

Geometridae, Ennomiinae, Azelini

1490. *Pero morrisonaria* (Hy. Edw.) (6755. *Pero morrisonaria* (Hy. Edw.)) (Lesser Umber) – 5-VI-2001 1, 14-VI-2001 1, 24-VI-2003 1, 20-VI-2004 1, 30-V-2005 1, 16C-VI-2005 1, 20-VI-2007 1, 22-VI-2011 1 and 27-VI-2011 1.

Geometridae, Ennomiinae, Campaeini

1494. *Campaea perlata* (Gn.) (6796. *Campaea perlata* (Gn.)) (Pale Beauty or Fringed Looper Moth) – 26-VII-2000 1, 4-VIII-2000 1, 6-VII-2001 1, 1-VIII-2001 2, 6-VIII-2001 1, 15-VII-2002 1, 20-VII-2002 1, 28-VII-2004 1, 1-VII-2005 1, 17-VII-2005 1, 28-VII-2005 1, 23-VI-2006 1, 18-VII-2007 1, 12-VII-2008 1, 10-VIII-2010 1, 23-VII-2011 1 and 2-VIII-2011 1.

Geometridae, Ennomiinae, Ennomini

1495. *Ennomos magnaria* Gn. (6797. *Ennomos magnaria* Gn.) (Maple Spanworm) – 14-IX-2000 1, 23-IX-2000 1, 16-IX-2001 1, 25-IX-2001 1, 3-IX-2002 1, 8-IX-2002 1, 31-VIII-2001 1, 10-IX-2003 1, 21-IX-2004 1, 10-IX-2006 1, 11-IX-2009 1, 25-IX-2010 1 and 9-IX-2011 1.

Geometridae, Ennomiinae, Anagogini

1501. *Selenia alciphearia* (Wlk.) (6817. *Selenia alciphearia* (Wlk.)) (Northern Selenia) – 2-VI-2000 1, 13-V-2001 4, 24-V-2001 1, 20-V-2003 1, 25-IV-2004 1 and 26-V-2004 1.

1502. *Selenia kentaria* (G. & R.) (6818. *Selenia kentaria* (G. & R.)) (Kent's Geometer) – 13-V-2001 1, 1-VI-2002 1, 10-VI-2002 1, 24-V-2004 2 and 11-VI-2008 1.

1503. *Metanema inatomaria* Gn. (6819. *Metanema inatomaria* Gn.) (Pale Metanema) – 22-VI-2002 1, 3-VII-2002 1, 30-VI-2003 1, 1-VI-2004 1, 21-VII-2004 1, 1-VII-2005 1, 20-VI-2009 1 and 27-VI-2011 1.

1504. *Metanema determinata* Wlk. (6820. *Metanema determinata* Wlk.) (Dark Metanema) – 14-VI-2001 1, 22-VI-2002 1, 4-VI-2003 1, 30-VI-2003 1, 29-VI-2004 1, 16C-VI-2005 1, 17-VII-2005 1, 2-VI-2006 1, 11-VI-2008 1, 3-VII-2008 1 and 23-VI-2010 1.

1506. *Metarranthis duaria* (Gn.) (6822. *Metarranthis duaria* (Gn.)) (Ruddy Metarranthis) – 18-VI-2001 1, 1-VI-2002 1, 10-VI-2002 1, 22-VI-2002 1, 4-VI-2003 1, 19-V-2004 1, 26-V-2004 1, 1-V-2004 1, 25-V-2005 1 and 11-VI-2008 1.

1507. *Probola alienaria* (H.-S.) (6837. *Probola alienaria* (H.-S.)) – 5-VI-2001 1, 14-VI-2001 1, 22-VI-2002 1, 4-VI-2003 1, 24-V-2004 1, 16C-VI-2005 1, 2-VI-2006 1, 20-VI-2009 1 and 1-VII-2011 1.

1508. *Probola amicaria* (H.-S.) (6838. *Probola amicaria* (H.-S.)) (Friendly Probola) – 14-VI-2001 2, 18-VI-2001 1, 12-VI-2002 2, 30-VI-2003 1 and 25-V-2005 1.

1509. *Plagodis pulveraria* (L.) (6836. *Anagoga occiduaria* (Wlk.)) (American Barred Umber) – 5-VI-2001 1, 14-VI-2001 1 and 16-V-2005 1.

1510. *Plagodis phlogosaria* (Gn.) (6842. *Plagodis phlogosaria* (Gn.)) (Straight-lined Plagodis) – 13-V-2001 4, 24-V-2001 1, 1-VI-2002 1, 30-VI-2003 1, 16-V-2005 1, 30-V-2005 1 and 2-VI-2006 1.

Geometridae, Ennomiinae, Ourapterygini

1520. *Nepytia canosaria* (Wlk.) (6906. *Nepytia canosaria* (Wlk.)) – 15-VIII-2003 1.

1522. *Sicya macularia* (Harr.) (6912. *Sicya macularia* (Harr.)) (Pink-bordered Yellow) – 9-VIII-2000 1, 18-VII-2007 1 and 23-VII-2011 1.

1524. *Tetracis jubaria* (Hulst) (6954. *Synaxis jubaria* (Hulst)) (October Thorn) – 14-IX-2000 1, 5-IX-2001 1, 16-IX-2001 1, 8-IX-2002 1, 19-IX-2003 1, 26-IX-2003 1, 21-IX-2004 1 and 29-IX-2008 1.

1528. *Tetracis crocallata* Gn. (6963. *Tetracis crocallata* Gn.) (Yellow Slant-line) – 6-VII-2001 1, 22-VI-2002 1, 30-V-2005 2, 2-VI-2006 1 and 20-VI-2007 1.

1531. *Prochoerhodes lineola* (Göze) (6982. *Prochoerhodes transversata* (Drury)) (Large Maple Spanworm) – 22-VIII-2000 1, 6-VIII-2001 1 and 1-IX-2004 1.

LASIOCAMPIDAE – Lappet Moths

Lasiocampidae, Lasiocampinae, Gastropachini

1536. *Phyllodesma americana* (Harr.) (7687. *Phyllodesma americana* (Harr.)) (Lappet Moth) – 21-V-2000 1, 22-V-2000 1, 24-IV-2001 1, 4-V-2001 1, 13-V-2001 1, 14-VI-2001 1, 18-VI-2001 1, 1-VI-2002 1, 10-VI-2002 2, 1-V-2004 2, 6-V-2005 1, 13-V-2008 1, 20-VI-2009 1, 13-V-2010 1 and 19-V-2010 1.

Lasiocampidae, Lasiocampinae, Lasiocampini

1537. *Malacosoma disstria* Hbn. (7698. *Malacosoma disstria* Hbn.) (Forest Tent Caterpillar) – 8-VII-2000 1, 12-VII-2000 1, 20-VII-2000 1, 16-VII-2001 1, 15-VII-2002 1, 14-VII-2003 1, 16-VII-2004 1 and 12-VII-2008 1.

1538. *Malacosoma californica* (Pack.) (7702. *Malacosoma californicum* (Pack.)) (Western Tent Caterpillar) – 18-VII-2007 1.

SATURNIDAE – Silk Moths

Saturniidae, Saturniinae, Saturniini

1542. *Antheraea polyphemus* (Cram.) (7757. *Antheraea polyphemus* (Cram.)) (Polyphemus Moth) – 1-VI-2000 2 and 10-VII-2004 1.

Saturniidae, Saturniinae, Attacini

1544. *Hyalophora gloveri* (Stkr.) (7769. *Hyalophora gloveri* (Stkr.)) (Glover's Silk-moth) – 25-V-2005 1.

SPHINGIDAE – Sphinx or Hawk Moths

Sphingidae, Sphinginae, Sphingini

1546. *Ceratomia undulosa* (Wlk.) (7787. *Ceratomia undulosa* (Wlk.)) (Waved Sphinx) – 2-VII-2000 1 and 18-VI-2001 1.

1548. *Sphinx vashti* Stkr. (7803. *Sphinx vashti* Stkr.) (Vashti or Snowberry Sphinx) – 26-V-2004 1 and 18-VI-2004 1.
1550. *Sphinx luscitiosa* Clem. (7811. *Sphinx luscitiosa* Clem.) (Clemen's Sphinx or Clemen's Hawk Moth) – 13-VI-2003 1.

Sphingidae, Smerinthinae, Smerinthini

1553. *Smerinthus jamaicensis* (Drury) (7821. *Smerinthus jamaicensis* (Drury)) (Twin-spotted Sphinx) – 22-VI-2002 3, 3-VII-2002 3 and 22-VI-2011 1.
1554. *Smerinthus cerisyi* Kby. (7822. *Smerinthus cerisyi* Kby.) (One-eyed Sphinx) – 2-VI-2000 1, 13-V-2001 1, 24-V-2001 1, 10-VI-2002 3, 22-VI-2002 5, 3-VII-2002 8, 24-V-2004 1, 26-V-2004 1, 14-VI-2004 1, 29-VI-2004 1, 10-VII-2004 1, 16-VII-2004 1, 20-VI-2007 1, 3-VII-2008 1, 12-VII-2008 1 and 20-VI-2009 1.
1556. *Paonias excaecata* (J.E. Smith) (7824. *Paonias excaecatus* (J.E. Smith)) (Blinded Sphinx) – 22-VI-2002 1, 10-VII-2004 2, 20-VI-2007 1 and 3-VII-2008 1.
1557. *Paonias myops* (J.E. Smith) (7825. *Paonias myops* (J.E. Smith)) (Small-eyed Sphinx) – 29-VI-2004 1.
1558. *Pachysphinx modesta* (Harr.) (7828. *Pachysphinx modesta* (Harr.)) (Big Poplar Sphinx) – 10-VI-2002 1, 22-VI-2002 1, 30-VI-2003 1 and 20-VI-2007 1.

Sphingidae, Macroglossinae, Macroglossini

1570. *Hyles gallii* (Rott.) (7893. *Hyles gallii* (Rottemburg)) (Galum Sphinx or Bedstraw Hawkmoth) – 2-VII-2000 1.

NOTODONTIDAE – Prominents

Notodontidae, Pygaerinae

1572. *Closteria albosigma* Fitch (7895. *Closteria albosigma* Fitch) (Sigmoid Prominent) – 21-V-2000 3, 27-V-2000 1, 1-VI-2000 1, 19-VI-2000 1, 26-VII-2000 2, 24-IV-2001 1, 4-V-2001 1, 13-V-2001 2, 5-VI-2001 1, 18-VI-2001 1, 1-VIII-2001 1, 1-VI-2002 1, 22-VI-2002 2, 15-VII-2002 1, 5-VIII-2002 1, 24-V-2004 1, 6-V-2005 1, 30-V-2005 1, 1-V-2007 1, 26B-V-2007 1, 18-V-2007 1, 6-V-2008 1, 13-V-2008 1, 11-VI-2008 1, 4-VIII-2008 2, 20-VI-2009 1, 24-IX-2009 1, 10-VIII-2010 1 and 23-VII-2011 1.
1574. *Closteria brucei* (Hy. Edw.) (7900. *Closteria brucei* (Hy. Edw.)) (Bruce's Chocolate-tip) – 13-V-2010 1.
1575. *Closteria apicalis* (Wlk.) (7901. *Closteria apicalis* (Wlk.)) (Common Chocolate-tip or Red-marked Tentmaker) – 13-V-2001 1, 24-V-2001 1, 5-VI-2001 2, 1-VI-2002 1, 22-VI-2002 2, 4-VI-2003 1, 30-V-2005 1, 3-VI-2005 1, 26B-V-2007 1, 20-VI-2007 1, 19-V-2010 1, 5-VI-2010 1 and 27-VI-2011 1.

Notodontidae, Notodontinae, Notodontini

1576. *Pheosia rimosa* (Pack.) (7922. *Pheosia rimosa* (Pack.)) (Black-rimmed Prominent) – 22-V-2000 1, 18-VI-2001 2, 6-VII-2001 2, 26-VII-2002 1, 5-VIII-2002 1, 16-V-2005 1, 2-VI-2006 1 and 3-VII-2008 1.
1577. *Odontosia elegans* (Stkr.) (7924. *Odontosia elegans* (Stkr.)) (Elegant Prominent) – 15-VII-2002 1, 8-VI-2004 1, 16C-VI-2005 1 and 11-VI-2008 1.
1578. *Notodonta scitipennis* Wlk. (7926. *Notodonta scitipennis* Wlk.) (Base-streaked Prominent) – 3-VI-2005 1 and 24-VI-2005 1.

1579. *Notodonta torva* (Hbn.) (7928. *Notodonta simplaria* Graef) (Simple Prominent) – 2-VI-2000 1, 12-VIII-2001 1, 19-V-2004 2, 16-V-2005 2, 8-VI-2005 1, 24-VI-2005 1, 26A-VIII-2005 1, 2-VI-2006 1 and 11-VI-2008 1.

Notodontidae, Notodontinae, Dicranurini

1580. *Glaphisia septentrionis* Wlk. (7931. *Glaphisia septentrionis* Wlk.) (Small Pebble or Common Glaphisia) – 27-V-2000 1, 24-V-2001 1, 14-VI-2001 2, 6-VII-2001 2, 22-VI-2002 4, 3-VII-2002 4, 20-VI-2004 1, 29-VI-2004 1, 10-VII-2004 1, 16-VII-2004 1, 16-V-2005 1, 30-V-2005 1, 20-VI-2007 1, 20-VI-2009 1 and 22-VI-2011 1.

1582. *Glaphisia lintneri* (Grt.) (7934. *Glaphisia lintneri* (Grt.)) (Lintner's Pebble) – 24-IV-2001 1, 29-IV-2001 1, 22-IV-2003 3, 25-IV-2004 1, 1-V-2004 1 and 27-IV-2007 1.

1585. *Furcula occidentalis* (Lint.) (7939. *Furcula occidentalis* (Lint.)) (Willow Kitten) – 22-V-2000 1, 8-VII-2000 1, 3-VII-2002 1, 5-VI-2005 1 and 2-VI-2006 1.

1586. *Furcula scolopendrina* (Bdv.) (7940. *Furcula scolopendrina* (Bdv.)) (Poplar Kitten) – 28-VI-2000 1, 14-VI-2001 1, 22-VI-2002 1, 20-VII-2002 1 and 3-VII-2008 1.

1587. *Furcula modesta* (Huds.) (7941. *Furcula modesta* (Huds.)) (Modest Kitten) – 22-V-2000 2, 22-VI-2002 1, 10-V-2006 1, 2-VI-2006 1, 26B-V-2007 1 and 13-V-2008 1.

Notodontidae, Phalerinae

1589. *Nadata gibbosa* (J.E. Smith) (7915. *Nadata gibbosa* (J.E. Smith)) (White-dotted Prominent) – 14-VI-2001 1, 22-VI-2002 1, 4-VI-2003 1, 30-VI-2003 1 and 14-VI-2004 1.

Notodontidae, Heterocampinae

1591. *Schizura unicornis* (J.E. Smith) (8007. *Schizura unicornis* (J.E. Smith)) (Variegated Prominent or Unicorn Caterpillar Moth) – 12-VII-2000 1, 26-VII-2000 1, 6-VIII-2001 1, 29-VI-2004 1, 30-V-2005 1, 16C-VI-2005 1 and 4-VI-2011 1.

1593. *Oligocentria semirufescens* (Wlk.) (8012. *Oligocentria semirufescens* (Wlk.)) (Red-washed Prominent) – 8-VII-2000 1, 18-VII-2007 1 and 4-VIII-2008 1.

EREBIDAE – Quadrifine Noctuids

Erebidae, Lymantriinae, Orgyiini – Tussock Moths

1600. *Dasychira vagans* (B. & McD.) (8294. *Dasychira vagans* (B. & McD.)) (Variable Tussock Moth) – 12-VII-2000 2, 20-VII-2000 3, 1-VIII-2000 1, 6-VII-2001 1, 15-VII-2002 1, 20-VII-2002 1, 14-VII-2003 1, 16-VII-2004 1, 3-VII-2008 1 and 12-VII-2008 1.

Erebidae, Arctiinae, Lithosiini

1608. *Clemensia albata* Pack. (8098. *Clemensia albata* Pack.) (Little White Lichen Moth) – 12-VII-2008 1.

Erebidae, Arctiinae, Arctiini – Tiger Moths

1613. *Virbia ferruginosa* (Wlk.) (8123. *Holomelina ferruginea* (Wlk.)) (Rusty Holomelina) – 15-VII-2002 1, 14-VII-2003 1, 28-VII-2004 1, 17-VII-2005 1 and 29-VII-2005 1.

1619. *Grammia virgo* (L.) (8197. *Grammia virgo* (L.)) (Virgin Tiger Moth) – 19-VI-2000 1, 28-VI-2000 1, 12-VII-2000 2, 6-VII-2001 1, 15-VII-2002 1, 14-VII-2003 1 and 3-VII-2008 1.
1620. *Grammia parthenice* (W. Kby.) (8196. *Grammia parthenice* (W. Kby.)) (Parthenice Tiger Moth) – 23-VII-2001 1, 1-VIII-2001 4, 15-VII-2002 1, 20-VII-2002 1, 16-VII-2004 1, 21-VII-2004 1, 6-VIII-2004 1, 22-VII-2005 1, 18-VII-2007 1, 12-VII-2008 1 and 10-VIII-2010 1.
1625. *Grammia williamsii* (Dodge) (8186. *Grammia williamsii* (Dodge)) (William's Tiger Moth) – 20-VI-2009 1.
1631. *Platarctia parthenos* (Harr.) (8162. *Platarctia parthenos* (Harr.)) (St. Lawrence Tiger Moth) – 19-VI-2000 1, 21-VI-2000 2, 22-VI-2002 7, 3-VII-2002 1, 20-VII-2002 1, 5-VIII-2002 1 and 14-VI-2004 1.
1632. *Arctia caja* (L.) (8166. *Arctia caja* (L.)) (Great Tiger Moth) – 18-VII-2007 1.
1633. *Cisseps fulvicollis* (Hbn.) (8367. *Cisseps fulvicollis* (Hbn.)) (Yellow-collared Scape Moth) – 2-VII-2000 1, 8-VII-2000 1, 12-VII-2000 2, 20-VII-2000 1, 12-VIII-2001 1, 15-VII-2002 1, 3-VII-2008 1 and 12-VII-2008 1.
1635. *Phragmatobia assimilans* Wlk. (8158. *Phragmatobia assimilans* Wlk.) (Large Ruby Tiger Moth) – 13-V-2001 2, 24-V-2001 1, 1-VI-2002 1, 4-VI-2003 1 and 2-VI-2009 1.
1636. *Pyrrharctia isabella* (J.E. Smith) (8129. *Pyrrharctia isabella* (J.E. Smith)) (Isabella Tiger Moth) – 22-VI-2002 1 and 3-VII-2002 1.
1647. *Haploa lecontei* (Guér.-Méneville) (8111. *Haploa lecontei* (Guér.-Méneville)) (Leconte's Haploa) – 12-VII-2008 1.
1648. *Gnophaelia vermiculata* (Grt.) (8037. *Gnophaelia vermiculata* (Grt.)) (Green Lattice or Police Car Moth) – 17-VIII-2010 1 and 1-VII-2011 1.
1649. *Lophocampa maculata* Harr. (8214. *Lophocampa maculata* Harr.) (Spotted Tiger Moth) – 1-VI-2000 1, 28-VI-2000 1, 2-VII-2000 1, 8-VII-2000 1, 22-VI-2002 2, 13-VI-2003 1, 2-VI-2006 1, 3-VII-2008 1, 20-VI-2009 1 and 4-VII-2011 1.
1652. *Ctenucha virginica* (Esp.) (8262. *Ctenucha virginica* (Esp.)) (Virginia Ctenucha) – 2-VII-2000 1, 22-VI-2002 2, 3-VII-2002 1 and 20-VI-2007 1.

Erebidae, Herminiinae

1654. *Idia americalis* (Gn.) (8322. *Idia americalis* (Gn.)) (American Snout Moth) – 12-VII-2000 3, 6-VIII-2001 1, 10-VII-2004 1, 17-VII-2005 1, 18-VII-2007 1 and 20-VI-2009 1.
1655. *Idia aemula* Hbn. (8323. *Idia aemula* Hbn.) (Powdered Snout) – 26-VII-2000 1, 9-VIII-2000 1, 21-VII-2004 1 and 23-VII-2011 1.
1656. *Idia* sp. nr. *aemula* (8323.1. *Idia* sp. nr. *aemula*) – 2-VII-2000 1, 8-VII-2000 4, 12-VII-2000 2, 21-VII-2000 1, 6-VII-2001 2, 3-VII-2008 1 and 12-VII-2008 2.
1662. *Zanclognatha latalba* (Sm.) (8354. *Zanclognatha latalba* (Sm.)) (The Canadian Zanclognatha) – 20-VII-2002 2, 14-VII-2003 1, 21-VII-2004 1, 6-VIII-2004 1, 17-VII-2005 1, 29-VII-2005 1, 12-VII-2008 1 and 10-VIII-2010 1.
1663. *Chytolita petrealis* Grt. (8356. *Chytolita petrealis* Grt.) (Lesser Luteous Snout) – 8-VII-2000 1, 22-VI-2002 1, 19-VI-2003 1, 20-VI-2009 1, 27-VI-2011 1 and 23-VII-2011 1.
1664. *Hormisa bivittata* (Grt.) (8359. *Macrochilo bivittata* (Grt.)) – 6-VIII-2001 1 and 17-VII-2005 1.
1666. *Phalaenostola metonalis* (Wlk.) (8362. *Phalaenostola metonalis* (Wlk.)) (Pale Phalaenostola, Tufted Snout) – 23-VII-2011 2.
1667. *Phalaenostola hanhami* (Sm.) (8365. *Phalaenostola hanhami* (Sm.)) (Hanham's Snout Moth) – 22-VII-2005 1.
1669. *Palthis angulalis* (Hbn.) (8397. *Palthis angulalis* (Hbn.)) (Angulated Snout Moth or Dark-spotted Palthis) – 25-VI-2002 1, 30-V-2005 1, 16C-VI-2005 1, 2-VI-2006 1, 20-VI-2007 1, 20-VI-2009 1, 5-VI-2010 1, 23-VI-2011 1 and 27-VI-2011 1.

Erebidae, Rivulinae

1671. *Rivula propinqualis* Gn. (8404. *Rivula propinqualis* Gn.) (Yellow Snout Moth) – 12-VII-2000 2.

Erebidae, Hypeninae

1675. *Hypena atomaria* Sm. (8450. *Bomolocha atomaria* Sm.) (Pale-banded Snout) – 16-VII-2004 2 and 22-VII-2005 1.

1676. *Hypena edictalis* (Wlk.) (8452. *Bomolocha edictalis* (Wlk.)) (Large Bomolocha) – 17-VII-2005 1, 22-VII-2005 1, 29-VII-2005 1 and 23-VII-2011 1.

1677. *Hypena humuli* Harr. (8461. *Hypena humuli* Harr.) (Hop-vine Snout Moth) – 25-IX-2001 1, 25-IV-2005 1 and 9-X-2010 1.

1678. *Hypena californica* Behr (8462. *Hypena californica* Behr) (California Snout) – 19-V-2004 1.

Erebidae, Scoliopteryginae, Scoliopterygini

1680. *Scoliopteryx libatrix* (L.) (8555. *Scoliopteryx libatrix* (L.)) (The Herald) – 1-VI-2002 1 and 1-V-2004 2.

Erebidae, Erebinae, Eucliniini

1700. *Caenurgina crassiuscula* (Haw.) (8738. *Caenurgina crassiuscula* (Haw.)) (Clover Looper Moth) – 3-VI-2000 3, 4-VI-2000 2, 20-VII-2000 1, 21-VII-2000 1 and 22-VI-2002 1.

Erebidae, Erebinae, Ophiusini

1703. *Zale minerea* (Gn.) (8697. *Zale minerea* (Gn.)) (Colorful Zale) – 24-V-2001 1, 4-VI-2003 1 and 16-V-2005 2.

1704. *Zale duplicata* (Bethune) (8703. *Zale duplicata* (Bethune)) – 4-VI-2011 1.

Erebidae, Erebinae, Catocalini

1705. *Catocala relicta* Wlk. (8803. *Catocala relicta* Wlk.) (White Underwing) – 13-VIII-2001 1, 2-IX-2002 1, 21-VIII-2001 1, 1-IX-2004 2, 4-IX-2004 1, 26A-VIII-2005 1 and 11-IX-2009 1.

1706. *Catocala unijuga* Wlk. (8805. *Catocala unijuga* Wlk.) (Once-married Underwing) – 9-VIII-2000 1.

1711. *Catocala briseis* Edw. (8817. *Catocala briseis* Edw.) (Ribbed Underwing or Briseis Underwing) – 24-VIII-2000 1, 2-IX-2002 1, 8-IX-2002 2, 4-IX-2004 1 and 25-VIII-2009 1.

1713. *Catocala semirelicta* Grt. (8821. *Catocala semirelicta* Grt.) (Semirelict Underwing) – 11-VIII-2000 1, 12-VIII-2000 1, 24-VIII-2000 1, 8-IX-2002 1, 10-VIII-2005 1 and 28-IX-2005 1.

1719. *Catocala blandula* Hulst (8867. *Catocala blandula* Hulst) (Charming Underwing) – 29-VII-2005 1 and 4-VIII-2008 3.

NOCTUIDAE – Noctuid Moths**Nolidae, Nolinae**

1721. *Nola cilicoides* (Grt.) (8990. *Nola cilicoides* (Grt.)) (Blurry-patched Nola) – 12-VIII-2001 1.

Noctuidae, Plusiinae, Abrastolini

1725. *Abrastola urentis* Gn. (8881. *Abrastola urentis* Gn.) (Variegated Brindle) – 30-VI-2003 1, 22-VII-2005 1, 12-VII-2008 1 and 20-VI-2009 1.
1729. *Pseudeva purpurigera* (Wlk.) (8899. *Pseudeva purpurigera* (Wlk.)) (Straight-lined Looper Moth) – 18-VII-2007 1.
1737. *Autographa bimaculata* (Steph.) (8911. *Autographa bimaculata* (Steph.)) (Two-spotted Looper Moth) – 21-VIII-2000 1, 5-VIII-2002 1 and 16-VIII-2011 1.
1740. *Autographa californica* (Speyer) (8914. *Autographa californica* (Speyer)) (Alfalfa Looper) – 21-VIII-2000 1, 14-IX-2000 1, 21-IX-2001 1, 19-IX-2003 1, 21-IX-2004 1 and 7-X-2005 1.
1745. *Anagrapha falcifera* (Kby.) (8924. *Anagrapha falcifera* (Kby.)) (Celery Looper) – 2-VI-2000 1, 19-VI-2000 1, 14-IX-2000 2, 5-VI-2001 1, 16-IX-2001 1, 23-IX-2001 1, 4-VI-2003 1, 13-VI-2003 1, 24-VI-2003 1, 14-VII-2003 1, 30-V-2005 1, 5-VI-2005 1, 1-VII-2005 1, 3-VII-2008 1, 12-VII-2008 1, 2-VI-2009 1 and 20-VI-2009 1.
1746. *Syngrapha octoscripta* (Grt.) (8926. *Syngrapha octoscripta* (Grt.)) (Dusky Silver Y) – 2-IX-2002 1 and 3-VII-2008 1.
1763. *Plusia putnami* Grt. (8950. *Plusia putnami* Grt.) (Putnam's Looper Moth) – 8-VII-2000 1, 12-VII-2000 1, 20-VII-2000 1, 6-VII-2001 1, 22-VI-2002 1, 15-VII-2002 1, 10-VII-2004 1, 22-VII-2005 1, 29-VII-2005 1, 20-VI-2007 1, 3-VII-2008 1, 4-VIII-2008 1, 27-VI-2011 1 and 2-VIII-2011 1.
1765. *Plusia venusta* Wlk. (8953. *Plusia venusta* Wlk.) (White-streaked Looper Moth) – 12-VIII-2001 1 and 18-VII-2007 1.

Noctuidae, Eustrotiinae

1767. *Protodeltote albidula* (Gn.) (9048. *Lithacodia albidula* (Gn.)) (Common Midget) – 2-VII-2000 1, 7-VII-2000 1, 12-VII-2000 1, 25-V-2001 5, 26-V-2001 1, 14-VI-2001 2, 16-VI-2001 3, 27-VI-2001 5, 6-VII-2001 1, 9-VII-2001 1, 6-VIII-2001 1 and 22-VI-2002 1.

Noctuidae, Acontiinae, Acontiini

1773. *Tarache angustipennis* (Grt.) (9111. *Therasea angustipennis* (Grt.) and 9112. *Therasea flavicosta* (Sm.)) (Narrow-winged Midget) – 4-VI-2001 1 and 13-VI-2003 1.

Noctuidae, Dilobinae

1778. *Raphia frater* (Grt.) (9193. *Raphia frater* (Grt.)) (The Brother) – 19-VI-2000 1, 21-VI-2000 1, 2-VII-2000 1, 8-VII-2000 1, 24-V-2001 1, 14-VI-2001 1, 6-VII-2001 1, 22-VI-2002 lots, 2-VII-2002 2, 14-VII-2003 1, 10-VII-2004 2, 17-VII-2005 1, 2-VI-2006 1, 20A-VI-2007 1, 3-VII-2008 1, 20-VI-2009 1, 22-VI-2011 1 and 27-VI-2011 2.

Noctuidae, Acronictinae

1783. *Acronicta vulpina* (Grt.) (9206. *Acronicta vulpina* (Grt.)) (Poplar Dagger Moth) – 29-VI-2000 3 and 22-VI-2002 1.
1787. *Acronicta grisea* (Wlk.) (9212. *Acronicta grisea* (Wlk.)) (Gray Dagger Moth) – 19-VI-2000 1, 8-VII-2000 1, 22-VI-2002 2, 14-VI-2003 1, 20-VI-2009 1 and 4-VI-2011 1.
1790. *Acronicta superans* Gn. (9226. *Acronicta superans* Gn.) (The Chieftain Dagger Moth) – 29-VI-2004 1 and 30-V-2005 1.
1791. *Acronicta hasta* Gn. (9228. *Acronicta furcifera* Gn. and 9229. *Acronicta hasta* Gn.) (The Forked Dagger Moth) – 21-VI-2000 1, 13-V-2001 1, 2-VI-2009 1, 20-VI-2009 1, 19-V-2010 1 and 22-VI-2011 1.

1793. *Acronicta fragilis* (Gn.) (9241. *Acronicta fragilis* (Gn.)) (Fragile Dagger Moth) – 28-VI-2000 1, 8-VII-2000 1, 14-VI-2001 1, 27-VI-2001 4, 3-VII-2002 1, 16C-VI-2005 1, 11-VI-2008 1, 20-VI-2009 1, 23-VI-2010 1, 23-VI-2011 1, 4-VI-2011 1 and 27-VI-2011 1.
1794. *Acronicta impleta* (Wlk.) (9257. *Acronicta impleta* (Wlk.)) (Yellow-haired Dagger Moth) – 13-V-2008 1.
1796. *Acronicta impressa* Wlk. (9261. *Acronicta impressa* Wlk.) (Willow Dagger Moth) – 22-V-2000 2, 24-IV-2001 1, 1-VI-2002 1 and 18-VII-2007 1.
1798. *Acronicta oblinita* (J.E. Sm.) (9272. *Acronicta oblinita* (J.E. Smith)) (Smeared Dagger Moth) – 20-VI-2009 1.
1801. *Simyra insularis* (H.-S.) (9280. *Simyra henrici* (Grt.)) (Henry's Marsh Moth) – 20-VI-2007 1.
1802. *Harrisimemna trisignata* (Wlk.) (9286. *Harrisimemna trisignata* (Wlk.)) (Harris's Three-spot) – 22-VI-2002 1.

Noctuidae, Cuculliinae

1808. *Cucullia intermedia* Speyer (10194. *Cucullia intermedia* Speyer) (Intermediate Falconer or Goldenrod Cutworm Moth) – 21-V-2000 1, 27-V-2000 3, 28-VI-2000 1, 2-VII-2000 1, 13-V-2001 1, 1-VI-2002 1, 15-VII-2002 1, 22-V-2003 1, 28-VII-2004 1, 16-V-2005 1, 25-V-2005 1, 3-VI-2005 1, 27-V-2006 1, 18-VII-2007 1, 20-VI-2009 1 and 22-VI-2011 1.

Noctuidae, Oncocnemidinae

1836. *Sympistis stabilis* Sm. (10062. *Homohadena stabilis* Sm.) (Brown Sallow) – 21-VII-2000 1 and 6-VII-2001 1.
1838. *Sympistis dinalda* (Sm.) (10065. *Homohadena infixa* (Wlk.)) (Broad-lined Sallow) – 15-VII-2002 1, 29-VII-2005 1 and 18-VII-2007 1.
1844. *Sympistis mackiei* (B. & Benj.) (10143. *Oncocnemis mackiei* (B. & Benj.)) (Mackie's Beauty) – 15-VIII-2003 2.
1853. *Sympistis chionanthi* (J.E. Sm.) (10067. *Adita chionanthi* (J.E. Smith)) (Fringed Tree Sallow) – 28-VII-2004 1.

Noctuidae, Noctuinae, Pseuostrotiini

1897. *Pseudostrotia carneola* (Gn.) (9053. *Pseudostrotia carneola* (Gn.)) (Pink-barred Lithacodia) – 8-VII-2000 2, 12-VII-2000 2, 24-V-2001 1, 9-VII-2001 2, 22-VI-2002 1, 3-VII-2002 2, 15-VII-2002 1, 31-VIII-2003 2, 1-VI-2004 1, 8-VI-2004 1, 10-VII-2004 1, 6-VIII-2004 1, 22-VII-2005 1, 2-VI-2006 1, 20-VI-2007 1, 2-VII-2008 1, 12-VII-2008 1, 4-VIII-2008 1, 2-VI-2009 1, 20-VI-2009 1, 11-IX-2009 1, 24-IX-2009 1 and 27-VI-2011 1.

Noctuidae, Noctuinae, Caradrini

1903. *Caradrina morpheus* (Hufn.) (9653. *Caradrina morpheus* (Hufn.)) – 27-VI-2011 1.
1905. *Caradrina montana* (Bremer) (9656. *Platyperigea montana* (Bremer)) (Civil Rustic) – 12-VII-2000 2, 26-VII-2000 1, 1-VIII-2000 1, 9-VIII-2000 4, 11-VIII-2000 2, 21-VIII-2000 1, 25-VIII-2000 1, 5-IX-2000 1, 7-IX-2000 3, 11-IX-2000 1, 14-IX-2000 9, 25-IX-2000 4, 26-IX-2000 2, 1-VIII-2001 2, 6-VIII-2001 1, 12-VIII-2001 2, 21-VIII-2001 1, 28-VIII-2001 1, 5-IX-2001 1, 10-IX-2001 1, 16-IX-2001 1, 21-IX-2001 2, 25-IX-2001 1, 29-IX-2001 1, 3-VII-2002 2, 6-VIII-2002 1, 2-IX-2002 lots, 8-IX-2002 1, 18-IX-2002 3, 21-VIII-2003 3, 31-VIII-2003 1, 19-IX-2003 1, 26-X-2003 1, 10-VII-2004 1, 16-VII-2004 3, 6-VIII-2004 1, 18-VIII-2004 1, 26-VIII-2004 3, 1-IX-2004 6, 4-IX-2004 1, 7-IX-2004 3, 14-IX-

2004 4, 21-IX-2004 2, 4-VIII-2008 1, 29-IX-2008 1, 25-VIII-2009 1, 11-IX-2009 1, 24-IX-2009 1, 10-VIII-2010 1, 25-IX-2010 1, 16-VIII-2011 1 and 9-IX-2011 1.

1906. *Proxenus miranda* (Grt.) (9647. *Proxenus miranda* (Grt.)) (Glistening Rustic) – 14-VI-2001 2, 22-VI-2002 1, 3-VII-2002 1, 1-VII-2005 1, 3-VII-2008 1, 20-VI-2009 1 and 22-VI-2011 1.

Noctuidae, Noctuinae, Dipterygiini

1908. *Trachea delicata* (Grt.) (9626. *Trachea delicata* (Grt.)) – 30-VI-2003 1.

Noctuidae, Noctuinae, Phlogophorini

1909. *Euplexia benesimilis* McD. (9545. *Euplexia benesimilis* McD.) (American Angle Shades) – 27-VI-2011 2.

1910. *Phlogophora periculosa* Gn. (9547. *Phlogophora periculosa* Gn.) (Brown-angle Shades or Great-angle Shades) – 1-VIII-2001 1.

Noctuidae, Noctuinae, Apameini

1914. *Apamea alia* (Gn.) (9351. *Apamea alia* (Gn.)) (Dewy Quaker) – 3-VII-2002 1, 30-VI-2003 1, 20-VI-2004 1, 29-VI-2004 1, 16C-VI-2005 1, 23-VI-2006 3, 27-VI-2011 1 and 23-VII-2011 1.

1915. *Apamea indocilis* (Wlk.) (9362. *Apamea remissa* (Hbn.)) (Ignorant Apamea) – 12-VII-2008 1.

1918. *Apamea sordens* (Hufn.) (9264. *Apamea sordens* (Hufn.)) (Bordered Apamea) – 19-VI-2000 2, 14-VI-2001 1, 18-VI-2001 3, 15-VII-2002 2, 19-VI-2003 1, 26-V-2004 1, 14-VI-2004 1, 20-VI-2004 1, 30-V-2005 2, 3-VI-2005 2, 5-VI-2005 2, 8-VI-2005 2, 16C-VI-2005 1, 27-V-2006 1, 2-VI-2006 1, 20-VI-2007 1, 11-VI-2008 1, 20-VI-2009 1, 4-VI-2011 1 and 22-VI-2011 2.

1924. *Apamea commoda* (Wlk.) (9359. *Apamea commoda* (Wlk.)) (Southern Quaker) – 8-VII-2000 1, 22-VI-2002 1, 3-VII-2002 2, 19-VI-2003 1, 24-VI-2003 1, 30-VI-2003 2, 20-VI-2004 2, 10-VII-2004 1, 24-VI-2005 2, 1-VII-2005 2, 17-VII-2005 1, 2-VI-2006 1, 23-VI-2006 1, 3-VII-2008 1, 12-VII-2008 1, 20-VI-2009 2, 23-VI-2010 2 and 23-VII-2011 1.

1927. *Apamea amputatrix* (Fitch) (9348. *Apamea amputatrix* (Fitch)) (Northern Quaker or Dusky Sallow) – 12-VII-2000 1.

1930. *Apamea scoparia* Mik. Must. & Laf. (9365. *Agroperina lateritia* (Hufn.)) (Red-winged Quaker) – 2-VII-2000 1, 8-VII-2000 1, 20-VII-2000 1, 1-VIII-2000 1, 29-IX-2001 1, 29-VI-2004 1, 10-VII-2004 1 and 23-VI-2006 1.

1931. *Apamea cogitata* (Sm.) (9367a. *Apamea dubitans cogitata* (Sm.)) (Ruby Quaker) – 8-VII-2000 1, 9-VII-2000 1, 20-VII-2000 1, 21-VII-2000 1, 6-VIII-2001 1, 16-VII-2004 1, 21-VII-2004 1, 1-VII-2005 1, 17-VII-2005 1, 22-VII-2005 1, 18-VII-2007 1, 3-VII-2008 1, 12-VII-2008 1, 4-VIII-2008 1, 10-VIII-2010 1, 27-VI-2011 1, 1-VII-2011 1, 23-VII-2011 1, 2-VIII-2011 1 and 16-VIII-2011 1.

1932. *Apamea inficita* (Wlk.) (9369. *Apamea inficita* (Wlk.)) (Inficita Quaker) – 26-VII-2000 2, 1-VIII-2000 1, 9-VIII-2000 1, 1-VIII-2001 1, 10-VII-2002 1, 5-VIII-2002 1, 21-VII-2004 1, 22-VII-2005 1, 29-VII-2005 1, 18-VII-2007 1, 10-VIII-2010 1 and 2-VIII-2011 1.

1933. *Apamea devastator* (Brace) (9382. *Crymodes devastator* (Brace)) (Glassy Cutworm or Destructive Quaker) – 12-VII-2000 1, 1-VIII-2000 1, 11-VIII-2000 1, 24-VIII-2000 1, 7-IX-2000 1, 14-IX-2000 1, 1-VIII-2001 1, 21-VIII-2001 1, 28-VIII-2001 1, 11-IX-2001 1, 29-IX-2001 1, 15-VII-2002 2, 5-VIII-2002 2, 2-IX-2002 3, 8-IX-2002 2, 15-IX-2002 1, 19-VI-2003 1, 21-VIII-2003 1, 29-VI-2004 1, 16-VII-2004 1, 21-VII-2004 1, 6-VIII-2004 1, 26-VIII-2004 1, 1-IX-2004 1, 4-IX-2004 1, 7-IX-2004 1, 14-IX-2004 1, 21-IX-2004 1, 17-VII-2005 1, 29-VII-2005 1, 2-IX-2005 1, 18-VII-2007 1, 3-VII-2008 1, 25-VIII-2009 1, 10-VIII-2010 1, 27-VI-2011 1 and 2-VIII-2011 1.

1936. *Apamea niveivenosa* (Grt.) (9374. *Apamea niveivenosa* (Grt.)) (White-veined Quaker) – 8-VII-2000 2, 21-VII-2000 1, 26-VII-2000 3, 1-VIII-2000 1, 6-VII-2001 2, 1-VIII-2001 2, 15-VII-2002 1, 20-VII-2002 1, 14-VII-2003 1, 10-VII-2004 1, 16-VII-2004 1, 22-VII-2005 1, 18-VII-2007 1, 12-VII-2008 1 and 23-VII-2011 2.
1938. *Resapamea passer* (Gn.) (9391. *Luperina passer* (Gn.)) (Dock Rustic) – 6-VII-2001 1, 15-VIII-2003 1, 21-VIII-2003 1, 29-VI-2004 1 and 22-VII-2005 1.
1939. *Eremobina claudens* (Wlk.) (9396. *Eremobina claudens* (Wlk.)) (Alberta Quaker) – 12-VIII-2000 1, 28-VIII-2001 1, 16-IX-2001 1, 23-IX-2001 1 and 11-IX-2009 1.
1943. *Oligia egens* (Wlk.) (9417. *Oligia egens* (Wlk.)) (Neomogen's Quaker) – 12-VIII-2001 1.
1944. *Oligia mactata* (Gn.) (9419. *Oligia mactata* (Gn.)) (Prairie Quaker) – 25-VIII-2000 1, 26A-VIII-2005 1 and 2-IX-2005 1.
1945. *Oligia illocata* (Wlk.) (9420. *Oligia illocata* (Wlk.)) (Wandering Quaker) – 8-IX-2002 1, 26-VIII-2004 1 and 4-IX-2004 1.
1946. *Neoligia subjuncta* (Sm.) (9412. *Oligia laevigata* (Sm.)) (Short-cloaked Quaker) – 8-VII-2000 1, 12-VII-2000 1, 1-VIII-2000 1, 6-VII-2001 2, 15-VII-2002 1, 10-VII-2004 2, 21-VII-2004 1, 28-VII-2004 1, 1-VII-2005 2 and 17-VII-2005 1.
1950. *Photedes includens* (Wlk.) (9434. *Spartiniphaga includens* (Wlk.)) (Silver-C Borer) – 6-VIII-2001 1, 21-VIII-2003 1 and 6-VIII-2004 1.
1954. *Hypocoena inquinata* (Gn.) (9437. *Chortodes inquinata* (Gn.)) (Sordid Wainscot) – 28-VII-2004 1.
1955. *Hypocoena basistriga* (McD.) (9439. *Chortodes basistriga* (McD.)) (Base-streaked Wainscot) – 28-VIII-2001 1 and 21-IX-2004 1.
1956. *Hypocoena rufostrigata* (Pack.) (9440. *Chortodes rufostrigata* (Pack.)) (Brown-streaked Rustic) – 8-VII-2000 1, 3-VII-2002 3, 15-VII-2002 2, 20-VII-2002 1, 15-VIII-2003 1, 10-VII-2004 1, 16-VII-2004 1, 28-VII-2004 1, 23-VI-2006 1, 20-VI-2009 1, 22-VI-2011 1 and 1-VII-2011 1.
1957. "Photedes" *defecta* (Grt.) (9443. *Chortodes defecta* (Grt.)) (Narrow-winged Borer) – 14-IX-2004 1 and 11-IX-2009 1.
1959. *Capsula subflava* (Grt.) (9450. *Archana subflava* (Grt.)) (Subflava Sedge Borer) – 9-VIII-2000 1, 12-VIII-2000 1, 24-VIII-2000 2, 14-IX-2000 1, 12-VIII-2001 1 and 15-VIII-2003 1.
1960. *Helotropha reniformis* (Grt.) (9453. *Celaena reniformis* (Grt.)) (Kidney-spotted Rustic) – 1-VIII-2001 1, 21-VIII-2001 1, 5-IX-2001 1, 16-IX-2001 6, 21-IX-2001 3, 23-IX-2001 1, 25-IX-2001 2, 29-IX-2001 1, 2-IX-2002 2, 8-IX-2002 1, 18-IX-2002 1, 1-IX-2004 1, 7-IX-2004 2, 21-IX-2004 2, 29-IX-2008 1 and 24-IX-2009 1.
1962. *Amphipoea americana* (Speyer) (9457. *Amphipoea americana* (Speyer)) (American Ear Moth) – 11-VIII-2000 3, 12-VIII-2001 3, 21-VIII-2001 1, 21-VIII-2003 1, 26-VIII-2004 1, 1-IX-2004 1, 4-IX-2004 1, 14-IX-2004 1, 13C-VIII-2005 1, 2-IX-2005 1, 10-VIII-2006 1, 10-IX-2006 1, 25-VIII-2009 1, 11-IX-2009 1 and 10-VIII-2010 2.
1968. *Hydraecia perobliqua* Hamp. (9515. *Hydraecia perobliqua* Hamp.) (Oblique Rustic) – 23-IX-2001 1, 25-IX-2001 1, 15-VIII-2003 1, 14-IX-2004 1 and 21-IX-2004 1.

Noctuidae, Noctuinae, Arzamini

1971. *Bellura obliqua* (Wlk.) (9525. *Bellura obliqua* (Wlk.)) (Cattail Borer Moth) – 14-VI-2001 1, 22-VI-2002 1, 20-VI-2004 1, 11-VI-2008 1, 20-VI-2009 1, 22-VI-2011 1 and 1-VII-2011 1.

Noctuidae, Noctuinae, Xylenini

1975. *Xylena nupera* (Lint.) (9873. *Xylena nupera* (Lint.)) (American Swordgrass) – 21-V-2000 1 and 26-X-2003 1.

1976. *Xylena curvimacula* (Morr.) (9874. *Xylena curvimacula* (Morr.)) (Dot-and-dash Swordgrass Moth) – 4-V-2001 1, 27-IV-2002 1, 28-IV-2002 4, 8-IV-2003 1, 16-IV-2003 1, 29-III-2004 1, 3-IV-2004 2, 5-IV-2004 2, 21-IV-2004 1, 25-IV-2004 3, 7-V-2004 1, 21-IX-2004 1, 6-IV-2005 1, 11-IV-2005 1, 25-IV-2005 2, 3-V-2005 2, 13-IV-2007 1, 12-IV-2008 1, 6-V-2008 1 and 7-IV-2010 1.
1977. *Xylena thoracica* (Put.-Cram.) (9875. *Xylena thoracica* (Putnam-Cramer)) (Gray Swordgrass Moth) – 27-IV-2002 1, 12-V-2002 1, 16-IV-2003 1, 21-IV-2004 1, 28-IX-2005 1 and 25-IV-2006 1.
1978. *Xylena cineritia* (Grt.) (9876. *Xylena cineritia* (Grt.)) (Western Swordgrass Moth) – 28-IV-2002 1, 5-IV-2004 1, 12-IV-2004 3, 1-V-2004 2, 25-IV-2005 1, 3-V-2005 2, 13-IV-2006 1, 26-IV-2006 1 and 13-IV-2007 1.
1980. *Lithomoia germana* (Morr.) (9878. *Lithomoia germana* (Morr.)) (American Peasant) – 24-VIII-2000 1, 21-VIII-2001 1, 23-IX-2001 1 and 29-IX-2008 1.
1981. *Homoglaea hircina* Morr. (9881. *Homoglaea hircina* Morr.) (Goat Sallow) – 5-IV-2001 4, 18-IV-2001 3, 24-IV-2001 2, 27-IV-2002 4, 28-IV-2002 1, 17-V-2002 1, 8-IV-2003 1, 16-IV-2003 lots, 29-III-2004 2, 3-IV-2004 lots, 5-IV-2004 2, 25-IV-2004 1, 6-IV-2005 4, 16-IV-2005 1, 7-V-2005 1, 30-III-2007 2, 13-IV-2007 2, 1-V-2007 1, 12-IV-2008 1, 11-IV-2009 1 and 26-III-2010 2.
1983. *Litholomia napaea* (Morr.) (9884. *Litholomia napaea* (Morr.)) (Dark Grey Peasant) – 20-X-2000 1, 18-IV-2001 1, 23-IV-2001 2, 24-IV-2001 4, 29-IV-2001 2, 13-V-2001 2, 28-VIII-2001 1, 16-IX-2001 1, 23-IX-2001 1, 25-IX-2001 1, 1-VI-2002 1, 19-V-2003 1, 20-V-2003 1, 19-IX-2003 1, 1-V-2004 4, 5-IV-2004 1, 25-IV-2004 5, 7-V-2004 4, 26-V-2004 1, 14-IX-2004 1, 21-IX-2004 1, 6-IV-2005 1, 11-IV-2005 2, 3-V-2005 2, 16-V-2005 1, 28-IX-2005 1, 12-IV-2008 1, 29-IX-2008 1, 11-IX-2009 1, 24-IX-2009 1, 25-IX-2010 1 and 23-IX-2011 1.
1984. *Lithophane innominata* (Sm.) (9888. *Lithophane innominata* (Sm.)) (Nameless Pinion) – 22-V-2003 1, 3-IV-2004 1, 21-IV-2004 1, 25-IV-2004 2, 7-V-2004 1 and 28-IX-2005 1.
1986. *Lithophane amanda* (Sm.) (9891. *Lithophane amanda* (Sm.)) (Distant Pinion) – 7-V-2004 1.
1995. *Eupsilia vinulenta* (Grt.) (9933. *Eupsilia vinulenta* (Grt.)) (Straight-toothed Sallow) – 24-IV-2000 1, 28-IV-2002 1, 12-V-2002 1, 8-IV-2003 1, 16-IV-2003 2, 22-IV-2003 1, 26-IX-2003 1, 29-III-2004 4, 5-IV-2004 2, 1-V-2004 1, 14-IX-2004 1, 21-IX-2004 2, 6-IV-2005 3, 11-IV-2005 3, 25-IV-2005 1, 19-IV-2006 2, 12-IV-2008 1 and 7-IV-2010 1.
1996. *Eupsilia tristigmata* (Grt.) (9935. *Eupsilia tristigmata* (Grt.)) (Three-spotted Sallow) – 18-IV-2000 1, 24-IV-2000 1, 16-IX-2001 1, 25-IX-2001 1, 8-IV-2003 2, 22-IV-2003 2, 29-III-2004 1 and 25-IV-2004 1.
1999. *Eucirroedia pampina* (Gn.) (9952. *Eucirroedia pampina* (Gn.)) (Scalloped Sallow) – 21-VIII-2001 1 and 19-IX-2005 1.
2001. *Sunira bicolorago* (Gn.) (9957. *Sunira bicolorago* (Gn.)) (Bicolored Sallow) – 14-IX-2000 1, 18-IX-2000 1, 23-IX-2000 1, 26-IX-2000 1, 21-IX-2001 1, 23-IX-2001 1, 29-IX-2001 1, 8-IX-2002 1, 26-IX-2003 1, 14-IX-2004 1, 21-IX-2004 3, 25-IX-2005 1, 28-IX-2005 3, 11-IX-2009 1, 23-IX-2009 1, 25-IX-2010 2 and 23-IX-2011 1.
2002. *Sunira verberata* (Sm.) (9960. *Sunira verberata* (Sm.)) (Western Sallow) – 29-IX-2001 1, 2-IX-2002 1, 15-VIII-2003 1, 21-VIII-2003 1, 4-IX-2004 1, 7-X-2005 1, 11-IX-2009 1 and 24-IX-2009 1.
2003. *Anathix puta* (G. & R.) (9962. *Anathix puta* (G. & R.)) (Dusky Sallow or Puta Sallow) – 21-VIII-2000 2, 24-VIII-2000 3, 25-VIII-2000 1, 14-IX-2000 5, 12-VIII-2001 4, 5-IX-2001 1, 25-IX-2001 1, 2-IX-2002 1, 8-IX-2002 1, 15-VIII-2003 1, 21-VIII-2003 1, 31-VIII-2003 1, 18-VIII-2004 1, 26-VIII-2004 1, 1-IX-2004 1, 14-IX-2004 1, 21-IX-2004 1 and 10-VIII-2010 3.
2005. *Xanthia tatago* Laf. & Mik. (9965. *Xanthia togata* (Esp.)) (Pink-barred Sallow) – 24-VIII-2000 1, 5-IX-2000 2, 11-IX-2000 3, 14-IX-2000 1, 23-IX-2000 4, 25-IX-2000 1, 26-IX-2000 1, 28-VIII-2001 1, 31-VIII-2001 1, 5-IX-2001 1, 11-IX-2001 1, 23-IX-2001 1, 2-IX-2002 1, 8-IX-2002 1, 18-IX-2002 1, 31-VIII-2003 1, 10-IX-2003 1, 19-IX-2003 1, 4-IX-2004 1, 7-IX-2004 1, 21-IX-2004 1, 11-IX-2009 1, 24-IX-2009 1 and 9-IX-2011 1.

2008. *Brachylomia populi* (Stkr.) (9993. *Brachylomia populi* (Stkr.)) (Cloaked Peasant) – 24-VIII-2000 1, 25-VIII-2000 1, 5-IX-2000 1, 14-IX-2000 2, 12-VIII-2001 2, 21-VIII-2001 1, 11-IX-2001 1, 16-IX-2001 1, 23-IX-2001 1, 25-IX-2001 1, 5-VIII-2002 1, 2-IX-2002 1, 8-IX-2002 1, 15-VIII-2003 1, 21-VIII-2003 1, 31-VIII-2003 1, 19-IX-2003 1, 18-VIII-2004 1, 4-IX-2004 1, 21-IX-2004 1, 29-VII-2005 1, 26A-VIII-2005 1, 2-IX-2005 1, 10-IX-2006 1, 25-VIII-2009 1, 11-IX-2009 1, 24-IX-2009 1 and 23-IX-2011 1.
2009. *Brachylomia algens* (Grt.) (9998. *Brachylomia algens* (Grt.)) (Willow Peasant) – 25-VIII-2000 1, 12-VIII-2001 1, 8-IX-2002 1, 21-VIII-2003 1, 18-VIII-2004 1, 26-VIII-2004 2, 1-IX-2004 1, 4-IX-2004 2, 7-IX-2004 1 and 2-IX-2005 1.
2012. *Parastichtis suspecta* (Wlk.) (9431. *Parastichtis suspecta* (Wlk.)) (Mottled Quaker) – 6-VII-2001 1, 2-IX-2005 1, 4-VIII-2008 1, 25-VIII-2009 1, 11-IX-2009 1 and 24-IX-2009 1.
2019. *Enargia decolor* (Wlk.) (9549. *Enargia decolor* (Wlk.)) (Angle-striped Sallow) – 14-IX-2000 2, 28-VIII-2001 1, 5-IX-2001 1, 11-IX-2001 1, 16-IX-2001 1, 21-IX-2001 2, 23-IX-2001 1, 2-IX-2002 1, 8-IX-2002 1, 16-IX-2002 1, 15-VIII-2003 2, 21-VIII-2003 1, 31-VIII-2003 1, 18-VIII-2004 1, 26-VIII-2004 4, 1-IX-2004 8, 4-IX-2004 1, 7-IX-2004 4, 13-IX-2004 8, 21-IX-2004 1, 13C-VIII-2005 1, 2-IX-2005 1, 10-IX-2006 1, 29-IX-2008 1, 25-VIII-2009 1, 11-IX-2009 1, 24-IX-2009 1, 25-IX-2010 1, 9-IX-2011 1 and 23-IX-2011 1.
2020. *Enargia infumata* (Grt.) (9550. *Enargia infumata* (Grt.)) (Lesser Angle-striped Sallow) – 10-VII-2004 1, 21-VII-2004 2, 6-VIII-2004 1 and 22-VII-2005 1.
2021. *Ipimorpha pleonectusa* Grt. (9555. *Ipimorpha pleonectusa* Grt.) (Even-lined Sallow) – 1-VIII-2001 1, 28-VII-2004 1, 6-VIII-2004 1, 18-VIII-2004 1, 1-IX-2004 1, 7-IX-2004 1, 29-VII-2005 1, 26A-VIII-2005 1, 2-IX-2005 1 and 4-VIII-2008 1.
2030. *Platypolia anceps* (Steph.) (9976. *Platypolia anceps* (Steph.)) (Rugged Rover) – 18-IX-2000 1, 5-IX-2001 1, 21-IX-2001 1, 29-IX-2001 1 and 10-IX-2006 1.
2038. *Ufeus satyricus* (Grt.) (11051. *Ufeus satyricus* Grt.) (Satyr Dart) – 23-IX-2000 3, 26-IX-2000 3, 10-X-2000 1, 16-X-2000 1, 16-IX-2001 1, 16-X-2002 1, 19-IX-2003 1, 26-IX-2003 1, 28-IX-2005 1, 12-IV-2008 1 and 23-IX-2011 1.

Noctuidae, Noctuinae, Orthosiini

2042. *Stretchia plusiaeformis* (Hy. Edw.) (10471. *Stretchia plusiaeformis* (Hy. Edw.)) (Gray Spectacles) – 18-IV-2001 1, 23-IV-2001 1, 4-V-2001 1, 12-V-2002 1, 22-IV-2003 1, 10-V-2003 2, 25-IV-2004 1, 1-V-2004 1 and 6-V-2008 1.
2044. *Orthosia revicta* (Morr.) (10490. *Orthosia revicta* (Morr.)) (Subdued Quaker) – 22-V-2000 2, 18-IV-2001 3, 23-IV-2001 1, 24-IV-2001 1, 13-V-2001 1, 22-IV-2003 1, 21-IV-2004 1, 25-IV-2004 1, 1-V-2004 3, 7-V-2004 2, 19-V-2004 1, 26-V-2004 1, 6-IV-2005 4, 25-IV-2005 1, 3-V-2005 2, 6-V-2005 1, 19-IV-2006 1, 1-V-2007 1, 6-V-2006 2, 1-V-2010 1 and 14-V-2011 1.
2045. *Orthosia segregata* (Sm.) (10493. *Orthosia segregata* (Sm.)) (Segregate Penman) – 29-IV-2001 1, 4-V-2001 1, 13-V-2001 2, 22-IV-2003 1, 25-IV-2004 1, 1-V-2004 1, 7-V-2004 1, 25-IV-2005 1, 19-IV-2006 1, 13-V-2008 1 and 13-V-2010 1. (10493. *Orthosia segregata* f. *negussa*) Sm. – 13-V-2001 2, 20-V-2003 1, 1-V-2004 1 and 27-IV-2007 1.
2046. *Orthosia hibisci* (Gn.) (10495. *Orthosia hibisci* (Gn.)) (Variable Penman or Speckled Green Fruitworm Moth) – 18-IV-2001 lots, 23-IV-2001 4, 24-IV-2001 5, 28-IV-2002 2, 12-V-2002 1, 16-IV-2003 4, 22-IV-2004 1, 19-V-2003 1, 20-V-2003 1, 29-III-2004 2, 3-IV-2004 3, 8-IV-2004 1, 12-IV-2004 1, 21-IV-2004 1, 25-IV-2004 lots, 1-V-2004 1, 7-V-2004 lots, 6-IV-2005 lots, 11-IV-2005 lots, 16-IV-2005 lots, 25-IV-2005 lots, 6-V-2005 1, 13-IV-2007 1, 1-V-2007 1, 6-V-2008 1, 11-IV-2009 1 and 23-IV-2011 2.

2049. *Egira dolosa* (Grt.) (10513. *Egira dolosa* (Grt.)) (Greiving Woodling or Greater Black-letter Dart) – 21-V-2000 1, 24-IV-2001 6, 29-IV-2001 1, 4-V-2001 1, 13-V-2001 1, 12-V-2002 1, 17-V-2002 1, 22-IV-2003 1, 21-IV-2004 1, 1-V-2004 2, 25-IV-2005 lots, 13-IV-2006 1, 27-IV-2007 1, 1-V-2007 1, 6-V-2008 1 and 13-V-2008 2.

Noctuidae, Noctuinae, Tholerini

2053. *Nephelodes minians* Gn. (10524. *Nephelodes minians* Gn.) (Shaded Umber, Brown Cutworm Moth or Bronzed Cutworm Moth) – 1-VIII-2000 1, 9-VIII-2000 1, 11-VIII-2000 2, 12-VIII-2000 1, 21-VIII-2000 1, 25-VIII-2000 1, 6-VIII-2001 3, 12-VIII-2001 1, 21-VIII-2001 1, 2-IX-2002 1, 15-VIII-2003 1, 21-VIII-2003 1, 31-VIII-2003 1, 18-VIII-2004 1, 26-VIII-2004 1, 1-IX-2004 3, 4-IX-2004 1, 10-VIII-2006 1, 4-VIII-2008 2, 25-VIII-2009 1, 10-VIII-2010 1 and 16-VIII-2011 3.

Noctuidae, Noctuinae, Hadenini

2058. *Anarta trifolii* (Hufn.) (10223. *Discestra trifolii* (Hufn.)) (Clover Cutworm or The Nutmeg) – 4-VI-2003 1, 24-V-2004 1, 8-VI-2004 1 and 30-V-2005 1.
2059. *Anarta mutata* (Dod) (10224. *Discestra mutata* (Dod)) (The Changeling) – 4-VI-2003 1.
2064. *Anarta farnhami* (Grt.) (10232. *Discestra farnhami* (Grt.)) (Farnham's Discestra) – 24-V-2001 1, 9-VII-2001 1, 1-VI-2002 1, 10-VI-2002 2, 4-VI-2003 1, 13-VI-2003 1, 24-VI-2004 1, 26-V-2004 2, 16-V-2005 1, 25-V-2005 1, 27B-V-2006 1, 2-VI-2006 1, 20-VI-2007 1 and 2-VI-2009 1.
2072. *Polia discalis* (Grt.) (10273. *Polia discalis* (Grt.)) (Large Gray Polia) – 15-VII-2002 2, 20-VII-2002 1, 21-VII-2004 1, 17-VII-2005 1, 22-VII-2005 1, 29-VII-2005 1 and 18-VII-2007 1.
2074. *Polia nimbosa* (Gn.) (10275. *Polia nimbosa* (Gn.)) (Stormy Arches) – 3-VII-2002 1, 30-VI-2003 1, 23-VI-2006 1, 3-VII-2008 1, 20-VI-2009 1, 23-VI-2010 1 and 22-VI-2011 1.
2075. *Polia imbrifera* (Gn.) (10276. *Polia imbrifera* (Gn.)) (Cloudy Arches) – 12-VII-2000 1, 18-VI-2001 1, 6-VII-2001 1, 15-VII-2002 1, 10-VII-2004 1, 24-VI-2005 1, 23-VI-2006 1, 20-VI-2007 1 and 12-VII-2008 1.
2079. *Polia purpurissata* (Grt.) (10280. *Polia purpurissata* (Grt.)) (Purple Arches) – 26-VII-2000 1, 1-VIII-2001 2, 6-VIII-2001 3, 22-VII-2005 2, 29-VII-2005 1 and 16-VIII-2011 1.
2082. *Lacanobia atlantica* (Grt.) (10297. *Lacanobia atlantica* (Grt.)) (Atlantic Arches) – 9-VI-2000 1, 28-VI-2000 1, 24-VI-2001 2, 14-VI-2001 2, 18-VI-2001 1, 6-VII-2001 1, 22-VI-2002 2, 3-VII-2002 1, 15-VII-2002 1, 20-VII-2002 1, 5-VIII-2002 1, 16-VII-2004 1, 16C-VI-2005 1, 24-VI-2005 1, 12-VII-2008 1, 20-VI-2009 1, 22-VI-2011 1 and 27-VI-2011 1.
2083. *Lacanobia radix* (Wlk.) (10298. *Lacanobia radix* (Wlk.)) (Garden Arches) – 21-VI-2000 1, 1-VI-2000 2, 21-VI-2000 1, 13-V-2001 2, 24-V-2001 2, 14-VI-2001 2, 18-VI-2001 1, 1-VI-2002 1, 10-VI-2002 3, 19-V-2004 1, 24-V-2004 2, 26-V-2004 2, 1-VI-2004 1, 8-VI-2004 1, 20-VI-2004 2, 16-V-2005 2, 25-V-2005 2, 30-V-2005 2, 1-VII-2005 1, 27-V-2006 1, 2-VI-2006 1, 20-VI-2007 1, 11-VI-2008 1 and 27-VI-2011 1.
2084. *Lacanobia subjuncta* (G. & R.) (10299. *Lacanobia subjuncta* (G. & R.)) (Harnessed Arches) – 30-VI-2003 1.
2088. *Melanchra assimilis* (Morr.) (10295. *Melanchra assimilis* (Morr.)) (Black Arches) – 26-VI-2000 1 and 3-VII-2002 1.
2096. *Trichordestra liquida* (Grt.) (10308. *Trichordestra liquida* (Grt.)) (Liquid Arches) – 20-VII-2000 1, 24-V-2001 2, 3-VII-2002 1 and 27-VI-2011 1.
2102. *Mamestra configurata* (Wlk.) (10271. *Mamestra configurata* (Wlk.)) (Bertha Armyworm) – 2-VII-2000 1, 8-VII-2000 1, 26-VII-2000 1, 15-VII-2002 1, 29-VII-2005 1, 23-VI-2006 1 and 18-VII-2007 1.

2107. *Sideridis rosea* (Harv.) (10265. *Sideridis rosea* (Harv.)) (Rosy Penman or The Rosywing) – 24-V-2001 1 and 30-V-2005 1.

Noctuidae, Noctuinae, Leucaniini

2112. *Faronta diffusa* (Wlk.) (10431. *Faronta diffusa* (Wlk.)) (Cloudy Wainscot or Wheat-head Armyworm Moth) – 22-VI-2002 1, 8-VIII-2002 1 and 2-VI-2006 1.
2113. *Dargida procincta* (Grt.) (10428. *Dargida procincta* (Grt.)) (The Girdler) – 14-IX-2000 1.
2114. *Mythimna oxygala* (Grt.) (10436. *Aletia oxygala* (Grt.)) (Lesser Wainscot) – 12-VII-2000 1, 20-VII-2000 1, 26-VII-2000 1, 1-VIII-2000 1, 9-VIII-2000 2, 11-VIII-2000 2, 6-IX-2000 1, 6-VII-2001 1, 23-VII-2001 1, 1-VIII-2001 1, 6-VIII-2001 2, 21-VIII-2001 1, 3-VII-2002 1, 11-VII-2002 1, 5-VIII-2002 1, 22-VIII-2002 1, 11-VIII-2003 1, 29-VI-2004 1, 16-VII-2004 1, 21-VII-2004 1, 18-VIII-2004 1, 26-VIII-2004 1, 1-IX-2004 1, 1-VII-2005 1, 17-VII-2005 1, 29-VII-2005 1, 13C-VIII-2005 1, 23-VI-2006 1, 20-VI-2007 1, 18-VII-2007 1, 12-VII-2008 1, 4-VIII-2008 1, 25-VIII-2009 1, 11-IX-2009 1, 10-VIII-2010 2, 2-VIII-2011 1 and 16-VIII-2011 1.
2115. *Mythimna unipuncta* (Haw.) (10438. *Pseudaletia unipuncta* (Haw.)) (The Armyworm) – 11-IX-2001 2, 29-IX-2001 1 and 26-IX-2003 1.
2118. *Leucania multilinea* Wlk. (10446. *Leucania multilinea* Wlk.) (Many-lined Wainscot) – 8-VII-2000 3, 26-VII-2000 1, 15-VII-2002 1, 10-VII-2004 1 and 29-VII-2005 1.
2119. *Leucania commoides* Gn. (10447. *Leucania commoides* Gn.) (Comma Wainscot) – 12-VII-2000 1, 9-VIII-2000 1, 5-VIII-2002 2, 18-VIII-2004 1, 20-VI-2007 1, 4-VIII-2008 1 and 25-VIII-2009 1.
2120. *Leucania insueta* Gn. (10449. *Leucania insueta* Gn.) (Heterodox Wainscot) – 3-VII-2002 1, 30-V-2005 1, 1-VII-2005 1, 22-VI-2011 1 and 27-VI-2011 1.

Noctuidae, Noctuinae, Eriopygini

2142. *Lacinipolia meditata* (Grt.) (10368. *Lacinipolia meditata* (Grt.)) (The Thinker or Pink-backed Cutworm Moth) – 26-VI-2000 1, 1-VIII-2001 1, 6-VIII-2001 1 and 4-VIII-2008 1.
2143. *Lacinipolia lustralis* (Grt.) (10370. *Lacinipolia lustralis* (Grt.)) (Lustrous Arches) – 23-VI-2006 1, 20-VI-2009 1 and 1-VII-2011 1.
2145. *Lacinipolia anguina* (Grt.) (10372. *Lacinipolia anguina* (Grt.)) (Snaky Arches) – 20-VI-2007 2.
2148. *Lacinipolia vicina* (Grt.) (10394. *Lacinipolia vicina* (Grt.)) (Small Gray Arches) – 28-VI-2000 1, 2-VII-2000 2, 8-VII-2000 1, 12-VII-2000 2, 20-VII-2000 2, 26-VII-2000 2, 6-VII-2001 2, 9-VII-2001 1, 3-VII-2002 1, 30-VI-2003 1, 15-VII-2003 1, 10-VII-2004 1, 1-IX-2004 1, 16C-VI-2005 1, 24-VI-2005 1, 1-VII-2005 1, 23-VI-2006 1, 3-VII-2008 1, 12-VII-2008 1, 20-VI-2009 1, 25-VIII-2009 1 and 23-VII-2011 1.
2150. *Lacinipolia renigera* (Steph.) (10397. *Lacinipolia renigera* (Steph.)) (Kidney-spotted Arches or Bristly Cutworm Moth) – 29-VI-2000 1, 2-VII-2000 4, 8-VII-2000 1, 12-VII-2000 2, 6-VII-2001 2, 1-VIII-2001 1, 15-VII-2002 1, 20-VII-2002 1, 14-VII-2003 1, 10-VII-2004 1, 16-VII-2004 1, 18-VIII-2004 1, 22-VII-2005 1, 29-VII-2005 1, 23-VI-2006 1, 18-VII-2007 1, 3-VII-2008 1, 12-VII-2008 1, 4-VIII-2008 1 and 16-VIII-2011 1.
2152. *Lacinipolia lorea* (Gn.) (10405. *Lacinipolia lorea* (Gn.)) (Bridled Arches) – 21-VI-2000 1, 14-VI-2000 2, 6-VII-2001 1, 22-VI-2002 1, 3-VII-2002 1, 19-VI-2003 1, 24-VI-2003 1, 30-VI-2003 1, 14-VII-2003 1, 20-VI-2004 1, 29-VI-2004 1, 10-VII-2004 1, 16-VII-2004 1, 24-VI-2005 1, 1-VII-2005 1, 23-VI-2006 1, 20-VI-2007 1, 12-VII-2008 1, 20-VI-2009 1, 22-VI-2011 1, 27-VI-2011 1 and 1-VII-2011 1.
2153. *Lacinipolia olivacea* (Morr.) (10406. *Lacinipolia olivacea* (Morr.)) (Olive Arches) – 26-VI-2000 1, 2-VII-2000 1, 12-VII-2000 3, 21-VII-2000 1, 26-VII-2000 1, 1-VIII-2000 2, 9-VIII-2000 1, 6-VII-2001 1,

- 1-VIII-2001 1, 12-VIII-2001 1, 28-VIII-2001 1, 15-VII-2002 1, 20-VII-2002 1, 16-VII-2004 1, 6-VIII-2004 1, 18-VIII-2004 1, 1-IX-2004 1, 17-VII-2005 1, 22-VII-2005 1, 23-VI-2006 1, 18-VII-2007 1, 3-VII-2008 1, 12-VII-2008 2, 4-VIII-2008 1, 25-VIII-2009 1, 10-VIII-2010 1 and 16-VIII-2011 1.
2157. *Anhimella contrahens* (Wlk.) (10530. *Anhimella contrahens* (Wlk.)) (Brown Stylus) – 9-VIII-2000 1, 6-VIII-2004 1, 29-VII-2005 1 and 10-VIII-2010 2.
2162. *Protorthodes oviduca* (Gn.) (10563. *Protorthodes oviduca* (Gn.)) (Ruddy Quaker) – 22-V-2000 1, 2-VI-2000 1, 7-VI-2000 4, 3-V-2001 2, 23-V-2001 2, 5-VI-2001 1, 14-VI-2001 2, 18-VI-2001 2, 10-VI-2002 2, 22-VI-2002 1, 4-VI-2003 1, 19-V-2004 1, 24-V-2004 1, 26-V-2004 1, 1-VI-2004 lots, 8-VI-2004 lots, 14-VI-2004 1, 25-V-2005 1, 30-V-2005 1, 3-VI-2005 1, 20-VI-2007 1, 11-VI-2008 1 and 20-VI-2009 1.
2165. *Orthodes goodelli* (Grt.) (10289. *Polia goodelli* (Grt.)) (Goodell's Arches) – 30-VI-2003 1.
2166. *Orthodes obscura* (Sm.) (10290. *Polia obscura* (Sm.)) (Obscure Arches) – 22-VI-2011 1.
2168. "Polia" *detracta* (Wlk.) (10288. *Polia detracta* (Wlk.)) (Disparaged Arches, Dingy Arches) – 27-VI-2011 1.

Noctuidae, Noctuinae, Noctuini

2172. *Peridroma saucia* (Hbn.) (10915. *Peridroma saucia* (Hbn.)) (Variegated Cutworm Moth) – 27-V-2000 1 and 16-IX-2001 1.
2174. *Anicla tepperi* (Sm.) (10910. *Euagrotis tepperi* (Sm.)) (Black-girdled Dart) – 8-VII-2000 2, 8-VI-2004 1, 20-VI-2004 1, 29-VI-2004 1 and 7-IX-2004 1.
2175. *Actebia fennica* (Tauscher) (10924. *Actebia fennica* (Tauscher)) (Finland Dart or Dark Army Cutworm Moth) – 21-IX-2001 1.
2176. *Actebia balanitis* (Grt.) (10923. *Protexarnis balanitis* (Grt.)) (Acorn Dart or Bracketed Dart) – 6-VII-2001 2, 21-VIII-2003 1 and 26-VIII-2004 1.
- Euxoa* spp. (*Euxoa* spp.) – 11-IX-2009 1 and 10-VIII-2010 1.
2188. *Euxoa adumbrata* (Ev.) (Not in Hodges) (Sordid Dart) – 20-VII-2002 1, 30-VI-2003 1 and 2-VIII-2011 1.
2189. *Euxoa auxiliaris* (Grt.) (10731. *Chorizagrotis auxiliaris* (Grt.)) (Auxiliary Dart) – 10-VI-2002 1, 22-VI-2002 1, 3-VII-2002 1, 5-VIII-2002 1, 18-IX-2002 1, 19-VI-2003 1, 30-VI-2003 1, 15-VIII-2003 1, 19-IX-2003 2, 4-VIII-2008 1 and 23-IX-2011 1.
2191. *Euxoa mimallonis* (Grt.) (10738. *Euxoa mimallonis* (Grt.)) (Ruddy Dart) – 2-IX-2002 1.
2194. *Euxoa messoria* (Harr.) (10705. *Euxoa messoria* (Harr.)) (Reaper Dart or Dark-sided Cutworm) – 2-IX-2002 1, 8-IX-2002 2, 21-VIII-2003 2, 19-IX-2003 1, 7-IX-2004 1, 14-IX-2004 1 and 21-IX-2004 2.
2195. *Euxoa divergens* (Wlk.) (10702. *Euxoa divergens* (Wlk.)) (Divergent Dart) – 28-VI-2000 1, 8-VII-2000 3, 14-VI-2001 1, 6-VII-2001 1, 22-VI-2002 1, 3-VII-2002 3, 15-VII-2002 1, 30-VI-2003 1, 14-VII-2003 1, 20-VI-2004 1, 29-VI-2004 1, 10-VII-2004 1, 16C-VI-2005 2, 24-VI-2005 3, 1-VII-2005 2, 23-VI-2006 2, 3-VII-2008 1, 20-VI-2009 1, 22-VI-2011 1 and 1-VII-2011 1.
2200. *Euxoa scandens* (Riley) (10715. *Euxoa scandens* (Riley)) (Climbing Dart or White Cutworm Moth) – 20-VII-2000 1, 6-VII-2001 1 and 1-VII-2005 1.
2204. *Euxoa tristicula* (Morr.) (10723. *Euxoa tristicula* (Morr.)) (Three-marked Dart or Early Cutworm Moth) – 21-VI-2000 1, 8-VII-2000 1, 12-VII-2000 1, 26-VII-2000 1, 1-VIII-2000 1, 24-V-2001 1, 1-VIII-2001 1, 16-IX-2001 1, 22-VI-2002 2, 3-VII-2002 3, 15-VII-2002 2, 20-VII-2002 1, 4-VI-2003 1, 19-VI-2003 1, 24-VI-2003 2, 30-VI-2003 1, 20-VI-2004 2, 29-VI-2004 2, 10-VII-2004 1, 30-V-2003 1, 3-VI-2005 1, 5-VI-2005 1, 17-VII-2005 1, 3-VII-2008 1, 12-VII-2008 1 and 20-VI-2009 1.
2212. *Euxoa intrita* (Morr.) (10749. *Euxoa intrita* (Morr.)) (Tippling Dart) – 5-VIII-2002 1.

2215. *Euxoa declarata* (Wlk.) (10755. *Euxoa declarata* (Wlk.)) (Clear Dart) – 6-VIII-2001 1, 28-VIII-2001 1, 8-IX-2002 4, 31-VIII-2003 1, 18-VIII-2004 1, 26-VIII-2004 1, 1-IX-2004 1, 2-IX-2005 1, 10-IX-2006 1 and 11-IX-2009 1.
2216. *Euxoa campestris* (Grt.) (10756. *Euxoa campestris* (Grt.)) (Flat Dart) – 9-VIII-2000 1, 11-VIII-2000 1, 12-VIII-2000 1, 28-VIII-2001 1, 5-IX-2001 1, 20-VII-2002 1, 15-VIII-2003 1, 21-VIII-2003 1, 6-VIII-2004 1, 18-VIII-2004 4, 26-VIII-2004 1, 1-IX-2004 1, 21-IX-2004 1, 10-VIII-2010 2, 2-VIII-2011 1 and 9-IX-2011 1.
2220. *Euxoa tessellata* (Harr.) (10805. *Euxoa tessellata* (Harr.)) (Tessellate Dart or Striped Cutworm Moth) – 20-VII-2000 1, 28-VIII-2001 1, 14-VII-2003 1, 29-VII-2005 1, 4-VIII-2008 1, 29-IX-2008 1 and 24-IX-2009 1.
2227. *Euxoa albipennis* (Grt.) (10807. *Euxoa albipennis* (Grt.)) (White-winged Dart) – 5-IX-2000 1, 21-VIII-2001 2, 28-VIII-2001 1, 2-IX-2002 2, 15-VIII-2003 2, 21-VIII-2003 2, 18-VIII-2004 2, 4-IX-2004 1, 14-IX-2004 2, 21-IX-2004 1, 25-VIII-2009 1 and 11-IX-2009 1.
2228. *Euxoa ochrogaster* (Gn.) (10801. *Euxoa ochrogaster* (Gn.)) (Red-backed Cutworm Moth) – 11-VIII-2000 2, 12-VIII-2000 3, 21-VIII-2000 2, 24-VIII-2000 2, 25-VIII-2000 1, 5-IX-2000 4, 14-IX-2000 3, 23-VII-2001 3, 1-VIII-2001 2, 5-VIII-2001 2, 6-VIII-2001 3, 12-VIII-2001 4, 21-VIII-2001 1, 28-VIII-2001 2, 5-IX-2001 6, 11-IX-2001 1, 16-IX-2001 2, 21-IX-2001 1, 23-IX-2001 1, 5-VIII-2002 2, 2-IX-2002 1, 8-IX-2002 2, 15-IX-2002 1, 15-VIII-2003 1, 21-VIII-2003 1, 19-IX-2003 1, 18-VIII-2004 1, 26-VIII-2004 1, 4-IX-2004 2, 7-IX-2004 1, 14-IX-2004 1, 21-IX-2004 3, 2-IX-2005 3, 28-IX-2005 1, 25-VIII-2009 2, 11-IX-2009 1, 24-IX-2009 1 and 16-VIII-2011 3.
2232. *Euxoa obeliscoides* (Gn.) (10817. *Euxoa obeliscoides* (Gn.)) (Obelisk Dart) – 21-IX-2004 1.
2233. *Euxoa basalis* (Grt.) (10798. *Euxoa basalis* (Grt.)) (Pale-based Dart) – 9-VIII-2000 1, 21-VIII-2001 2, 15-VIII-2003 1, 6-VIII-2004 1 and 2-VIII-2011 1.
2239. *Euxoa servitus* (Sm.) (10854. *Euxoa servita* (Sm.)) (Servita Dart) – 25-VIII-2009 1.
2246. *Euxoa difformis* (Sm.) (10845. *Euxoa difformis* (Sm.)) (Diformis Dart) – 24-VIII-2000 1.
2252. *Euxoa quadridentata* (G. & R.) (10830. *Euxoa quadridentata* (G. & R.)) (Four-toothed Dart) – 24-VIII-2000 1, 5-IX-2001 1, 11-IX-2001 1 and 31-VIII-2003 1.
2255. *Euxoa detersa* (Wlk.) (10838. *Euxoa detersa* (Wlk.)) (Rubbed Dart or Sand Cutworm Moth) – 7-IX-2004 1.
2257. *Euxoa aequalis* (Harv.) (10777. *Euxoa aequalis* (Harv.)) (Aequalis Dart) – 10-VII-2004 1.
2271. *Euxoa ridingsiana* (Grt.) (10861. *Euxoa ridingsiana* (Grt.)) (Riding's Dart) – 9-VIII-2000 1, 1-VIII-2001 1, 6-VIII-2001 2, 5-VIII-2002 2, 2-IX-2002 1, 15-VIII-2003 1, 18-VIII-2004 2 and 10-VIII-2010 1.
2274. *Feltia jaculifera* (Gn.) (10670. *Feltia jaculifera* (Gn.)) (Dingy Cutworm Moth) – 26-VII-2000 1, 9-VIII-2000 3, 24-VIII-2000 1, 1-VIII-2000 4, 6-VIII-2001 3, 12-VIII-2001 2, 21-VIII-2001 1, 5-VIII-2002 2, 2-IX-2002 1, 15-VIII-2003 1, 21-VIII-2003 1, 6-VIII-2004 1, 18-VIII-2004 1, 22-VII-2005 1, 4-VIII-2008 1, 25-VIII-2009 1, 11-IX-2009 1, 24-IX-2009 1, 10-VIII-2010 1, 23-VII-2011 1, 2-VIII-2011 1 and 9-IX-2011 1.
2275. *Feltia herilis* (Grt.) (10676. *Feltia herilis* (Grt.)) (Master's Dart) – 20-VII-2000 1, 26-VII-2000 3, 1-VIII-2002 2, 9-VIII-2000 1, 11-VIII-2000 1, 20-VII-2002 1, 5-VIII-2002 1, 6-VIII-2004 1, 1-IX-2004 1, 10-VIII-2006 1, 2-VIII-2011 1 and 9-IX-2011 1.
2280. *Agrotis orthogonia* Morr. (10645. *Agrotis orthogonia* Morr.) (Pale Western Cutworm) – 24-VIII-2000 1, 8-IX-2002 1 and 21-VIII-2003 1.
2282. *Agrotis venerabilis* Wlk. (10651. *Agrotis venerabilis* Wlk.) (Venerable Dart) – 21-VIII-2000 5, 24-VIII-2000 3, 25-VIII-2000 1, 5-IX-2000 1, 28-VII-2001 1, 12-VIII-2001 1, 21-VIII-2001 1, 22-VI-2002 1, 2-IX-2002 1, 8-IX-2002 1, 18-IX-2002 1, 15-VIII-2003 1, 21-VIII-2003 1, 31-VIII-2003 1, 14-VI-2004 1, 1-IX-2004 1, 25-VIII-2009 1, 25-IX-2010 1, 4-VI-2011 1, 22-VI-2011 1, 27-VI-2011 1 and 1-VII-2011 1.

2283. *Agrotis vancouverensis* Grt. (10652. *Agrotis vancouverensis* Grt.) (Vancouver Dart) – 2-VI-2000 1, 9-VI-2000 1, 19-VI-2000 3, 21-VI-2000 1, 26-VI-2000 2, 28-VI-2000 1, 2-VII-2000 2, 21-VII-2000 1, 26-VII-2000 1, 12-V-2001 1, 24-V-2001 2, 5-VI-2001 4, 14-VI-2001 3, 18-VI-2001 1, 6-VII-2001 1, 10-VI-2002 2, 22-VI-2002 2, 3-VII-2002 1, 4-VI-2003 1, 6-VI-2003 1, 13-VI-2003 1, 19-VI-2003 1, 24-VI-2003 1, 14-VII-2003 1, 1-VI-2004 1, 8-VI-2004 1, 14-VI-2004 1, 20-VI-2004 lots, 29-VI-2004 lots, 10-VII-2004 1, 25-V-2005 1, 30-V-2005 1, 8-VI-2005 2, 16C-VI-2005 1, 27-V-2006 1, 23-VI-2006 1, 20-VI-2007 1, 11-VI-2008 1, 4-VIII-2008 1, 2-VI-2009 1, 20-VI-2009 1, 5-VI-2010 1 and 23-VI-2010 1.
2285. *Agrotis volubilis* Harv. (10659. *Agrotis volubilis* Harv.) – 2-VI-2006 1.
2286. *Agrotis obliqua* (Sm.) (10660. *Agrotis obliqua* (Sm.)) (Oblique Dart) – 24-V-2001 1 and 22-VII-2005 1.
2288. *Agrotis epsilon* (Hufn.) (10663. *Agrotis epsilon* (Hufn.)) (Epsilon Dart) – 29-IX-2001 3 and 10-X-2001 1.
2289. *Ochropleura implecta* Laf. (10891. *Ochropleura plecta* (L.)) (Flame-shouldered Dart) – 14-VI-2001 1 and 22-VI-2002 1.
2293. *Diarsia rosaria* (Grt.) (10921. *Diarsia rosaria* (Grt.)) (Rosy Dart) – 6-VII-2001 1.
2294. *Cerastis salicarum* (Wlk.) (10996. *Cerastis salicarum* (Wlk.)) (Willow Dart) – 9-V-2001 1, 13-V-2001 1, 29-VI-2004 1 and 2-V-2007 1.
2295. *Paradiarsia littoralis* (Pack.) (10992. *Paradiarsia littoralis* (Pack.)) (Labrador Dart) – 21-VI-2000 1, 18-VI-2001 2, 6-VII-2001 2, 22-VI-2002 1, 3-VII-2002 1, 19-VI-2003 1, 24-VI-2005 1, 20-VI-2007 1, 3-VII-2008 1, 20-VI-2009 1, 22-VI-2011 1, 27-VI-2011 1 and 1-VII-2011 1.
2301. *Cryptocala acadiensis* (Bethune) (11012. *Cryptocala acadiensis* (Bethune)) (Catocaline Dart) – 20-VII-2000 1, 21-VII-2000 3, 6-VIII-2000 1, 1-VIII-2001 1, 12-VIII-2001 1, 15-VII-2002 1, 20-VII-2002 1, 6-VIII-2004 1, 22-VII-2005 1, 29-VII-2005 1, 18-VII-2007 1 and 4-VIII-2008 1.
2302. *Spaelotis clandestina* (Harr.) (10926. *Spaelotis clandestina* (Harr.)) (Clandestine Dart) – 26-VI-2000 1, 2-VII-2000 1, 8-VII-2000 1, 12-VII-2000 2, 20-VII-2000 1, 26-VII-2000 1, 25-VIII-2000 2, 5-IX-2000 2, 14-IX-2000 1, 15-VII-2002 1, 30-VI-2003 1, 21-VIII-2003 2, 31-VIII-2003 2, 10-VII-2004 1, 16-VII-2004 1, 18-VIII-2004 1, 21-IX-2004 1, 1-VII-2005 1, 12-VII-2008 1 and 25-IX-2010 1.
2303. *Spaelotis bicava* Laf. (10927. *Spaelotis havilae* Grt.) – 29-VI-2004 1.
2304. *Eurois occulta* (L.) (10929. *Eurois occulta* (L.)) (Great Grey Dart) – 2-VII-2000 1, 24-VIII-2000 1, 18-VI-2001 1, 21-VIII-2001 1, 5-IX-2001 1, 11-IX-2001 1, 21-IX-2001 1, 23-IX-2001 1, 2-IX-2002 1, 11-IX-2004 1, 18-VII-2007 1, 4-VIII-2008 1, 25-VIII-2009 1, 11-IX-2009 1, 16-VIII-2011 1 and 9-IX-2011 1.
2305. *Eurois astricta* Morr. (10930. *Eurois astricta* Morr.) (Great Brown Dart) – 1-VIII-2001 1.
2307. *Graphiphora augur* (Grt.) (10928. *Graphiphora augur* (Grt.)) (Soothsayer Dart) – 1-VIII-2001 1, 3-VII-2002 1, 16-VII-2004 1, 29-VII-2005 1, 18-VII-2007 1, 12-VII-2008 1, 23-VII-2011 1 and 2-VIII-2011 1.
2309. *Anaplectoides pressus* (Grt.) (11001. *Anaplectoides pressus* (Grt.)) (Dappled Dart or Broad-winged Dart) – 12-VII-2000 2 and 3-VII-2002 1.
2312. *Eueretagrotis perattentus* (Grt.) (11008. *Eueretagrotis perattenta* (Grt.)) (Two-spot Dart) – 20-VI-2007 1 and 27-VI-2011 2.
2313. *Xestia smithii* (Snell.) (10944. *Xestia smithii* (Snell.)) (Smith's Dart or Spotted Clay Dart) – 11-VIII-2002 2, 24-VIII-2000 1, 6-VIII-2001 1, 28-VIII-2001 1, 20-VII-2002 1, 5-VIII-2002 1, 6-VIII-2004 1, 18-VIII-2004 1, 29-VII-2005 2, 10-VIII-2006 2, 18-VII-2007 1, 4-VIII-2008 1, 10-VIII-2010 1 and 23-VII-2011 1.
2322. *Xestia c-nigrum* (F.) (10942. *Xestia c-nigrum* (L.)) (Black-letter Dart) – 8-VII-2000 2, 12-VII-2000 3, 20-VII-2000 1, 26-VII-2000 1, 1-VIII-2000 1, 6-VII-2001 2, 6-VIII-2001 1, 3-VII-2002 1, 15-VII-2002 1, 20-VII-2002 1, 23-VI-2006 1, 18-VII-2007 1, 3-VII-2008 1, 4-VIII-2008 1 and 27-VI-2011 1.

2335. *Agnorisma bugrai* (Koçak) (10954. *Xestia collaris* (G. & R.) (Collared Dart) 6-IX-2000 1, 12-VIII-2001 1, 15-VIII-2001 1, 1-IX-2004 1, 13C-VIII-2005 1, 10-VIII-2006 1 and 25-VIII-2009 1.
2337. *Pseudohermonassa tenuicula* (Morr.) (10951. *Xestia tenuicula* (Morr.) (Hair-pin Dart) – 12-VII-2000 1, 21-VII-2000 2, 26-VII-2000 1, 3-VII-2002 1, 15-VII-2002 1, 6-VIII-2004 2, 17-VII-2005 1, 22-VII-2005 1, 29-VII-2005 1, 18-VII-2007 2, 3-VII-2008 1, 12-VII-2008 1 and 23-VII-2011 1.
2344. *Protolampra rufipectus* (Morr.) (11004. *Protolampra rufipectus* (Morr.)) (Red-breasted Dart) – 1-VIII-2001 1, 6-VIII-2001 1, 20-VII-2002 2, 29-VII-2005 1, 4-VIII-2008 1 and 10-VIII-2010 1.
2355. *Abagrotis hermina* Laf. (not in Hodges) – 14-IX-2000 2, 1-VIII-2001 1, 12-VIII-2001 4, 27-VIII-2001 2, 28-VIII-2001 2, 15-VIII-2003 3, 21-VIII-2003 1, 31-VIII-2003 1, 21-IX-2004 1 and 2-IX-2005 1.
2357. *Abagrotis placida* (Grt.) group (11041. *Abagrotis placida* (Grt.) group) (Placid Dart) – 5-VIII-2002 2 and 1-IX-2004 1.

DISCUSSION

Five hundred and sixty-seven species of moths and 3 butterflies are reported from the Erskine site. Approximately 190 trap nights were involved. This number of trap nights is considerably higher than that in all other sites, except the one on the Bird quarter 9 km NW of Winfield. It logically follows that the greater number of trap nights, the more species that are encountered.

When compared to the 13 manly undisturbed areas involved in the present 10 year study, the following 18 moth species were found only at in the Erskine location: *Dahlica triquetrella*, *Elachista subalbidella*, *Coleophora JFL046*, *Pennisetia marginatum*, *Adoxophyes negundana*, *Proteoteras willingana*, *Plodia interpunctella*, *Eudonia lugubralis*, *Thera juniperata*, *Eupithecia sheppardata*, *Nepytia canosaria*, *Hypena californica*, *Zale duplicata*, *Caradrina morpheus*, *Trachea delicata*, *Euxoa albipennis*, *Euxoa difformis* and *Agrotis volubilis*.

The moths of the Erskine site were most similar (59.29%) to those of the ecologically diverse Buffalo Lake Conservation Area, and least similar (33.73%) to those of the prairie of the Lowden Springs Conservation Area. The Erskine site is faunistically and floristically rich because it has a combination of aspen parkland and semi-urban elements.

LITERATURE CITED

- Bird, C. D. 2011. Lepidoptera of a semi-urban residence in Erskine, Alberta. 29 pp.
- Bowman, Kenneth 1951. An annotated list of the Lepidoptera of Alberta. Can. J. Zoology 29: 121-165.
- Hodges, R. W. (ed.). 1983. Check List of the Lepidoptera of America North of Mexico. E.W. Classey Ltd. & The Wedge Entomological Research Foundation.
- Lafontaine, J. D. & B.C. Schmidt. 2010. Annotated check list of the Noctuoidea (Insecta, Lepidoptera) of North America north of Mexico. ZooKeys 40: 1-239.
- Pohl, G. R., G. G. Anweiler, B. C. Schmidt and N. G. Kondla. 2010. An annotated list of the Lepidoptera of Alberta, Canada. ZooKeys 38: 1-549.
- Sopow, S.L., R. G. Bennett, J-F. Landry & B. Landry. 1996. Identification of the “grey” *Dioryctria* species of British Columbia (Lepidoptera, Pyralidae). J. Entomol. Soc. Brit. Columbia 93: 75-91.

USEFUL ONLINE INFORMATION SOURCES ON MOTHS

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

Illustrations of Alberta macromoths can be found at a site put together by D. Lafontaine and J. Troubridge called “The Moths of Canada”:

http://www.cbif.gc.ca/spp_pages/misc_moths/phps/mothindex_e.php.

Illustrations on many of the western American macromoths can also be found on a site put together by The Moth Photographers Group:

<http://www.origins.tv/MothPhotographersGroup/WestPlates.htm>.

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

USEFUL BOOKS ON LEPIDOPTERA

- Acorn, J. 1993. Butterflies of Alberta. Lone Pine. 141 pp.
- Bird, C. D., G. J. Hilchie, N. G. Kondla, E. M. Pike and F. A. H. Sperling. 1995. Alberta Butterflies. Prov. Museum Alberta. 349 pp.
- Covell, Charles V., Jr. 1984. A Field guide to Moths; Eastern North America. Houghton, Mifflin Co., Boston, New York.
- Handfield, Louis. 1999. Le Guide des Papillons du Quebec. Vol. 1. Broquet, Boucherville, QC. 536 pp. + 123 pl.
- Handfield, Louis. 2011. Le Guide des Papillons du Quebec. Vol. 1. Partie 1 & 2, 1352 pp. plus 166 plates.
- Ives, W.G.H. & H.R. Wong. 1988. Tree and Shrub Insects of the Prairie Provinces. Can. Forestry Serv., Northern For. Centre, Inf. Rept. NOR-X-292.
- Layberry, R. A., P. W. Hall & J. D. Lafontaine. 1998. The Butterflies of Canada. Univ. Toronto Press. 280 pp.
- Powell, J. A. & P. A. Opler. 2009. Moths of Western North America. Univ. California Press. 369 pp.

ACKNOWLEDGEMENTS

Thanks are extended to Gary Anweiler for verifying or identifying the macromoths; Greg Pohl for help in the identification of some micromoths, Chris Schmidt for going over the Arctiids and some of the Geometrids, Jean-François Landry determined the *Coleophora* specimens and George Balogh named the *Eupithecia* species. Jason Dombroskie provided help with some of the Tortricidae.

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

No outside funding was sought for this study.

APPENDIX

Collection dates

2000: April 7, 10, 11, 18, 19, 24; May 21, 22, 27; June 1, 2, 3, 4, 7, 9, 19, 21, 26, 27, 28, 29; July 2, 7, 8, 9, 12, 20, 21, 26; August 1, 4, 6, 11, 12, 21, 22, 24, 25; September 5, 6, 7, 11, 14, 18, 23, 25, 26; October 10, 11, 16, 19.

2001: April 5, 18, 22, 23, 24, 25, 29; May 4, 9, 12, 13, 18, 24, 25, 26; June 5, 6, 14, 16, 18, 22, 27; July 6, 9, 23, 27, 28; August 1, 5, 6, 12, 13, 21, 22, 25, 28, 31; September 5, 10, 11, 16, 21, 23, 25, 29; October 1, 10, 16.

2002: April 12, 27, 28; May 12, 17, 22, 23; June 1, 10, 12, 22, 25, 27; July 3, 10, 11, 15, 20, 26; August 5, 6, 8, 12, 21, 22, 28; September 2, 3, 8, 15, 16, 18, 25; October 16.

2003: April 8, 16, 22; May 10, 19, 20, 22, 28, 30; June 4, 6, 12, 13, 14, 19, 24, 30; July 14, 15, 18, 27, 28; August 11, 15, 21, 31; September 10, 19, 26; October 26.

2004: March 29; April 3, 5, 8, 10, 12, 21, 22, 25, 26; May 1, 7, 19, 24, 26; June 1, 8, 9, 14, 20, 25, 29; July 10, 16, 21, 26, 27, 28; August 6, 15, 18, 26; September 1, 4, 7, 14, 21; October 12.

2005: March 31; April 6, 11, 16, 24, 25; May 3, 6, 16, 25, 30; June 3, 5, 6, 8, 14, 16, 22, 24, 25; July 1, 17, 22, 28, 29; August 10, 12, 13, 19, 26; September 2, 7, 12, 19, 28; October 7.

2006: April 13, 19, 25, 26; May 6, 10, 27; June 2, 21, 23; July 4, 13; August 10, 20; September 10, 14.

2007: March 30; April 13, 27; May 1, 2, 7, 8, 26; June 20; July 4, 18.

2008: April 12; May 6, 13; July 3, 12, 24; August 4; September 29.

2009: April 11; June 2, 20; August 25; September 11, 23, 24.

2010: March 3 (in house), 23 (in house), 26; April 5 (in house), 7, 10 (in house); May 1, 7 (in house), 9, 11 (in house), 13, 19, 21, 24 (in house); June 3 (in house), 5, 23; July 22; August 10, 17; September 25; October 9.

2011: April 21, 22; June 4, 22, 27; July 1, 16, 23; August 2, 16; September 2, 9, 23.