

Chapter 5

Moths and Butterflies of the Prairies Ecozone in Canada

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Abstract. The Prairies Ecozone of southern Manitoba, Saskatchewan, and Alberta supports a diverse fauna, with 2,232 species of butterflies and moths (order Lepidoptera) recorded to date in 61 families. By far the best known Lepidoptera are the butterflies, with 177 species known to occur in the ecozone. The species known to occur in the Prairies Ecozone are listed by province. The Lepidoptera fauna of this ecozone is reviewed in terms of diversity, state of knowledge of the major groups, postglacial and relict patterns, recent changes in distribution, and endangered and threatened species.

Résumé. L'écozone des prairies du sud du Manitoba, de la Saskatchewan et de l'Alberta abrite une faune diversifiée qui compte 2 232 espèces de papillons diurnes et de nuit (Ordre Lepidoptera) répertoriées à ce jour, représentant 61 familles. L'écozone comprend 177 espèces de papillons diurnes, qui sont beaucoup mieux connus que les papillons de nuit. Les espèces présentes dans l'écozone des Prairies sont regroupées par province. Le chapitre examine la diversité de cette entomofaune, l'état de nos connaissances sur les groupes principaux, les tendances de répartition géographique postglaciaires et relictuelles, les changements de répartition récents ainsi que les espèces en voie de disparition ou menacées.

Introduction

The Prairies Ecozone comprises a large portion of southern Alberta, Saskatchewan, and Manitoba. It was delimited and subdivided by the Ecological Stratification Working Group (1996), and we follow those limits herein. Shorthouse (2010) provides a map of the ecoregions within the Prairies Ecozone. The order Lepidoptera, the butterflies and moths, is one of the most diverse insect groups in the Prairies Ecozone, with 2,232 species recorded in 61 families, this representing about 43% of the Lepidoptera fauna of Canada. At least 173 species are restricted (within Canada) to grassland habitat in the Prairies Ecozone. Our

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knowledge of the Lepidoptera varies greatly from group to group, and only some groups are sufficiently well-known to be used effectively in biodiversity studies.

Lepidoptera Data Sources

Detailed distributional information has been published for some groups of moths in some of the recent fascicles of *The Moths of America North of Mexico* series, including the tortricid tribes Sparganothini and Atteriini (Powell and Brown 2012) and many groups of cutworm moths (Noctuidae): Plusiinae (Lafontaine and Poole 1991); Cuculliinae and Psaphidinae (Poole 1995); Noctuini: Noctuina (Lafontaine 1998); Noctuini: Agrotina (Lafontaine 2004); and Apameini (Mikkola *et al.* 2009). Other fascicles have little detailed distributional information. Recent works on the Sphingidae (Tuttle 2007) and Saturniidae (Tuskes *et al.* 1996) include range maps. Detailed distribution maps also appear in a series of memoirs on the inchworm moths (Geometridae) of Canada by McGuffin (1967, 1972, 1977, 1981, 1987) and Bolte (1990) that cover about 70% of the Canadian geometrid fauna. A long-term project on the forest Lepidoptera of Canada resulted in a four-volume series covering approximately 1,000 species of Lepidoptera that feed on trees and shrubs in Canada, and these also give distribution maps (McGugan 1958; Prentice 1962, 1963, 1965).

The *Butterflies of Canada* (Layberry *et al.* 1998) is based on a distributional database on the butterflies of Canada maintained by Agriculture and Agri-Food Canada that contains about 400,000 records from public and private collections in Canada. *The Butterflies of Canada* includes distribution maps for every species. Butterflies have also been treated in detail at the provincial level for Alberta (Bird *et al.* 1995), Saskatchewan (Hooper 1973, 1986), and Manitoba (Klassen *et al.* 1989). Guppy and Shepard (2001) include most of the Alberta prairies in their coverage of British Columbia butterflies.

Many smaller taxonomic works also include distribution records of Lepidoptera in western Canada, and a bibliography of Canadian records is in preparation (GRP, unpublished bibliography). A checklist of the Lepidoptera of Alberta (Pohl *et al.* 2010, 2011, 2012, 2013) lists species and associates them with major ecoregions in Alberta. A number of sites in the parkland and grasslands of southern Alberta have been extensively surveyed by C.D. Bird in the past 15 years; the survey areas include a site near Nevis and sites in Big Knife Provincial Park, Buffalo Lake Conservation Area, Dry Island Buffalo Jump Provincial Park, East Arrowwood Coulee, Erskine and vicinity, Lowden Springs Natural Area, Rochon Sands Provincial Park, and Tolman Bridge (CDB, unpublished reports submitted to Alberta Parks and Protected Areas, available from the Alberta Lepidopterists' Guild 2014). Hooper (1987, 1988a, 1988b, 1988c, 1990a, 1990b, 1990c, 1991a, 1991b, 1992, 1993, 1994, 1996a, 19996b, 2006a, 2006b, 2006c, 2007) published a list of Saskatchewan macrolepidoptera with brief notes on distribution. Brodie (1929) published a list of Manitoba Lepidoptera, but it does not contain detailed distributional information. In addition to these references, the vast amount of unpublished distributional information on Lepidoptera associated with the specimens in several collections has been consulted, including the Canadian National Collection of Insects, Arachnids, and Nematodes in Ottawa, Ontario; the Strickland Museum at the University of Alberta; the Northern Forestry Centre collection at the Canadian Forest Service laboratory in Edmonton, Alberta; the Royal Saskatchewan Museum in Regina, Saskatchewan; and the C.D. Bird collection in Erskine, Alberta. These sources form the basis of the analysis of distribution patterns discussed below.

Lepidoptera Classification and Habits

The classification scheme presented here incorporates all relevant published names, and nomenclature changes that the authors are aware of, up to the end of 2013. This includes significant catalogues such as Brown (2005), Pelham (2008), Lee *et al.* (2009), and Lafontaine and Schmidt (2010, 2011, 2013), as well as many smaller works too numerous to mention here. The terms “butterfly” and “moth” are merely groupings of convenience and do not reflect natural groups in the context of Lepidoptera evolutionary history. Similarly, the butterflies and the larger moths previously associated in a group called the “Macrolepidoptera” and the families of smaller moths referred to as “microlepidoptera” do not represent natural groups (Regier *et al.* 2009; Mutanen *et al.* 2010); for convenience of discussion, however, we have arranged the 61 families of Lepidoptera that occur in the Prairies Ecozone of western Canada into three groupings that represent different habits and different levels of knowledge.

The first group is the microlepidoptera (Group I), which in the Prairies Ecozone includes 42 families of mostly small-sized moths with larvae that are concealed feeders. A total of 706 species of microlepidoptera are known from the Prairies Ecozone. The actual number of species in the ecozone is probably at least double this number, but our poor knowledge of them precludes a better estimate. The microlepidoptera families can be arranged in four subgroups on the basis of larval habits. The first consists of 12 families (including the large family Gracillariidae) that are mainly leaf miners. The larvae are called leaf miners because they feed on the tissues between the upper and lower leaf surfaces; this results in a characteristic clear patch in the leaf where the green chlorophyll has been removed. Many species can be identified in the larval stage by considering both the shape and position of the mine on the host plant and the identity of the host. The adults are small (typically 5–10 mm wingspan) and have narrow wings, usually with a hair-like fringe that is wider than the wing. The leaf-mining microlepidoptera are poorly known, especially in central and western North America. The second subgroup consists of the case-bearers. Four families (Adelidae, Incurvariidae, Tineidae, and Coleophoridae) are small, narrow-winged case-bearing moths, like the leaf miners, but the larvae conceal themselves in a case made of silk and debris or cut-out pieces of plant; the larvae are often miners when small and build a case when they get larger. A fifth family of case-bearers, the Psychidae, or bagworms, are variable in size and some have broader wings; the females of most psychid species are wingless and many are larviform. The third subgroup of microlepidoptera families is the borers, in which the larvae may bore in the stems of plants, or in the flower heads, fruit, and roots. Adults are variable in size and appearance: The ghost moths (family Hepialidae) are large moths with 25 to 100 mm wingspans; the clear-winged moths (family Sesiidae) are medium-sized wasp mimics; and most other families in the subgroup (e.g., Carposinidae, Momphidae) are small moths similar to leaf miners. The fourth and largest subgroup of the microlepidoptera is the leaf rollers. Most members of the large families Tortricidae and Gelechiidae fall into this category. The adults are generally larger than leaf miners (wing expanses of 15–30 mm are typical) and the wings are more triangular than those in other groups, with only a narrow fringe. The larvae most commonly roll or fold a leaf and tie it with silk, or tie several leaves together, and feed in the protected enclosure. This group includes agricultural pests (e.g., oblique-banded leaf roller, *Choristoneura rosaceana*; codling moth, *Cydia pomonella*) and forest pests (e.g., spruce budworm, *Choristoneura fumiferana*). A significant portion of the recorded microlepidoptera are known from only one or two localities in the area, and so little can be said of range limits or distribution patterns.

For discussion purposes, we treat the remaining Lepidoptera in two groups, the butterflies (Group II; Papilionoidea, *sensu* Heikkilä *et al.* 2012) and the macromoths (Group III). Six families and 177 species of butterflies occur in the Prairies Ecozone. The combination of colourful patterns, diurnal flight, and abundance of identification aids has made butterflies the most popular insect group with amateur entomologists. As a result, the distribution of butterflies in Canada in general and the Prairies Ecozone in particular is so well-known that it is these patterns that form the primary basis for the analysis of distribution patterns given below. As in the macromoths, most butterfly larvae are exposed while feeding and rely on cryptic coloration, warning coloration, or spines for protection. Most butterfly larvae are covered with a dense layer of short hair that gives them a fuzzy appearance (e.g., Lycaenidae, Hesperidae, Pieridae, and some Nymphalidae) or are armed with an impressive array of branching spines (e.g., most Nymphalidae). Others, such as the monarch (*Danaus plexippus*) and some of the swallowtails (Papilionidae), are distasteful to predators and have a warning coloration. Many butterflies are powerful fliers and some are strongly migratory; several butterfly species occur in the ecozone as seasonal colonizers or strays.

The third group (Group III) comprises the macromoths. A total of 1,349 species in 13 families of macromoths occur in the Prairies Ecozone in Canada; this constitutes 78% of the entire known macromoth fauna from the three Prairie Provinces (GRP, unpublished data). The Crambidae and Pyralidae, often considered to be microlepidoptera, are included here since they are more closely related to the other families of macromoths than to the microlepidoptera. Three families, inchworm moths (Geometridae), erbid moths (Erebidae), and cutworm moths (Noctuidae), make up 78% of the Group III fauna. The cutworm moths alone, with 635 known species in the ecozone, make up 28% of the entire Lepidoptera fauna there. The larvae of macromoths are usually exposed when feeding, but are also usually protected by spines (Saturniidae), tufts of hair (Lasiocampidae, some Erebidae and Noctuidae), cryptic coloration (Geometridae, Drepanidae, Notodontidae, Noctuidae), or nocturnal habits (many Noctuidae). The hot, arid environments of the prairie grasslands present special challenges to many larval Lepidoptera, and many noctuid larvae hide during the day in the soil and leaf litter and feed only at night (e.g., tribes Leucaniini and Noctuidini). Typical wingspans of most macromoths are between 25 and 40 mm, although some species may be as small as 12 mm (e.g., Erebidae: *Hyphenodes*). Our largest resident Lepidoptera is the cecropia moth (*Hyalophora cecropia*), with a wingspan up to 150 mm. The macromoths contain some familiar pests such as tent caterpillars (Lasiocampidae: *Malacosoma* species), bertha armyworm (Noctuidae: *Mamestra configurata*), pale-western cutworm (Noctuidae: *Agrotis orthogonia*), redbacked cutworm (Noctuidae: *Euxoa ochrogaster*), and armyworm (Noctuidae: *Mythimna unipuncta*). Except for the few economically important species, distributional information on most macromoths remains rather spotty. A few groups are popular with amateur collectors and are better known; these include sphinx moths (family Sphingidae), giant silk moths (family Saturniidae), tiger moths (Erebidae: subfamily Arctiinae), and a group of erbid moths called underwing moths (Erebidae: genus *Catocala*).

Lepidoptera Diversity in the Prairies Ecozone

The Prairies Ecozone supports an extremely diverse fauna of butterflies and moths, with 2,232 species recorded in 61 families (Table 1). This represents approximately 43% of the Canadian Lepidoptera fauna of about 5,200 species (GRP, unpublished data), occurring

in an ecozone that makes up only 5% of the national land base. The diversity of the Prairies Ecozone is influenced by the presence of species from two major North American biogeographical realms, the Boreal Plains and Boreal Shield ecozones and the Montane Cordillera Ecozone. Boreal forest species occur in spruce (*Picea* spp.) and trembling aspen (*Populus tremuloides* Michx.) groves, particularly along the northern and eastern portions of the ecozone, where the aspen parkland forms a transition between the grasslands and the boreal forest. Similarly, many species found primarily in the Montane Cordillera Ecozone have ranges that extend into the Prairies Ecozone and/or have disjunct populations in the Cypress Hills, which straddle the Alberta–Saskatchewan border. A significant number of species associated with deciduous forests in eastern Canada occur in southern Manitoba because they track the westernmost extent of their larval host trees, particularly bur oak (*Quercus macrocarpa* Michx.) and American elm (*Ulmus americana* L.). At a smaller scale, Lepidoptera diversity tracks the changes in plant diversity of the seven ecoregion subdivisions of the Prairies Ecozone (Ecological Stratification Working Group 1996; Shorthouse 2010).

The proportion of species in each family that are inhabitants of true “grassland” habitat within the Prairies Ecozone varies widely across macromoth families, from 62% (393 species) in the Noctuidae and 36% (52 species) in the Erebidae, to only 18% (49 species) in the Geometridae and only one species each in the Notodontidae and Drepanidae. This difference is because Notodontidae, Drepanidae, and most of the Geometridae feed on woody plants as larvae, whereas the cutworm groups in Noctuidae (Noctuinae) are dominated by species adapted to feeding on non-woody plants, particularly grasses. In Alberta, where a transition occurs from grassland through parkland and into boreal, there is a shift in composition of the moth fauna from one that is dominated by species feeding on woody plants in the boreal region to one dominated by species feeding on herbaceous plants, driven primarily by the shift to a greater proportion of herbaceous-feeding Noctuidae (Figs. 1–3). Of note is that although species richness of Geometridae there decreases considerably from boreal forest to grasslands (Fig. 3), the proportion of woody plant specialists changes little, with an approximate 8% drop in woody-plant dependent Geometridae versus a corresponding drop of 16% in Noctuidae (Fig. 2). This underscores the importance of trees and shrubs to ecosystem diversity in prairie habitats in Alberta (Fig. 2).

In the microlepidoptera families, only about 33% of the species that occur in the Prairies Ecozone occur in grassland habitats, but this value is biased because the microlepidoptera fauna of woody plants is much better known and collected than that associated with herbaceous plants. Examples of poorly known microlepidoptera groups that have undergone radiation in grassland habitats are the grass miner moths (Elachistidae: Elachistinae) and the gelechiid tribe Gnorimoschemini. Butterflies occur most commonly in open habitats, and 62% (109 species) of the butterfly fauna of the ecozone occur in grassland habitat.

Table 1 lists the 61 families of Lepidoptera known from the Prairies Ecozone in Canada, as well as the number of species known from grasslands habitats versus other habitats in the Prairies Ecozone. Table 2 summarizes the number of species restricted to the Prairies Ecozone and Tables 3–5 summarize the conservation status of Prairies Ecozone Lepidoptera. A checklist of the Lepidoptera known to occur in the Prairies Ecozone is included in Table 6.

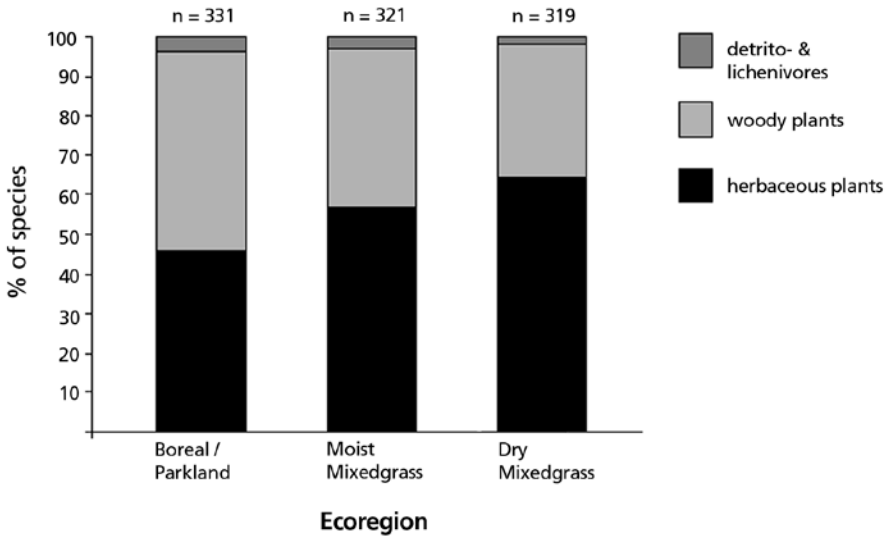


Fig. 1. Comparison of macromoth fauna among three sites in Alberta by larval feeding guild. Boreal/Parkland site = Ministik Hills (Schmidt 2001); Moist Mixedgrass prairie = Mackenzie Crossing, Red Deer River (CDB, unpublished report available from Alberta Lepidopterists' Guild 2014; BCS, unpublished data); Dry Mixedgrass prairie = Dinosaur Provincial Park, Red Deer River (GGA and BCS, unpublished data). Species with unknown larval hosts were assigned a feeding guild according to host data for the nearest available higher level taxon (e.g., genus or tribe). The herbaceous plant group includes graminoids.

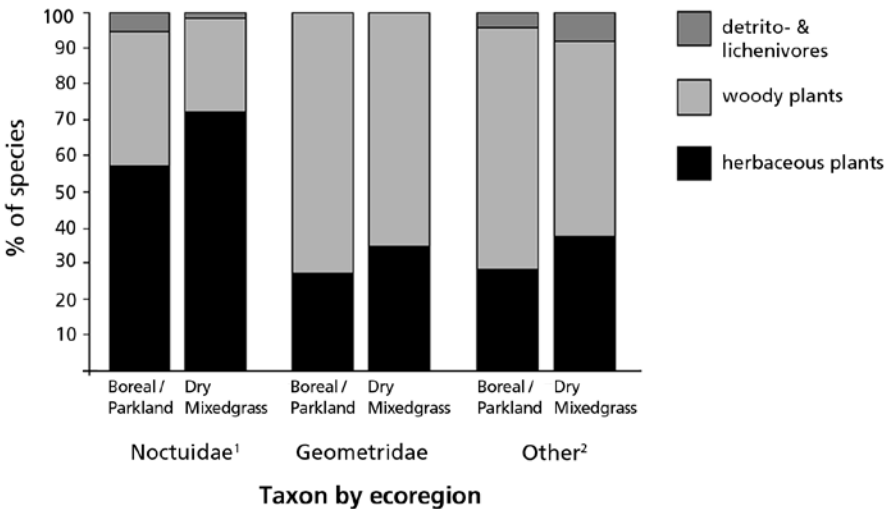


Fig. 2. Comparison of feeding guilds among a southern boreal and dry mixedgrass prairie within macromoth family groups. Boreal/Parkland site = Ministik Hills (Schmidt 2001); Dry Mixedgrass prairie = Dinosaur Provincial Park, Red Deer River (GGA and BCS, unpublished data). Species with unknown larval hosts were assigned a feeding guild according to host data for the nearest available higher level taxon (e.g., genus or tribe). The herbaceous plant group includes graminoids. ¹ Broadly defined to include Nolidae and Erebidae, but excluding Lymantriinae and Arctiinae. ² Spingidae, Saturniidae, Lasiocampidae, Uraniidae, Drepanidae, Notodontidae, Arctiinae, and Lymantriinae; the latter two are now included in the Erebidae (see Lafontaine and Schmidt 2010 and references therein).

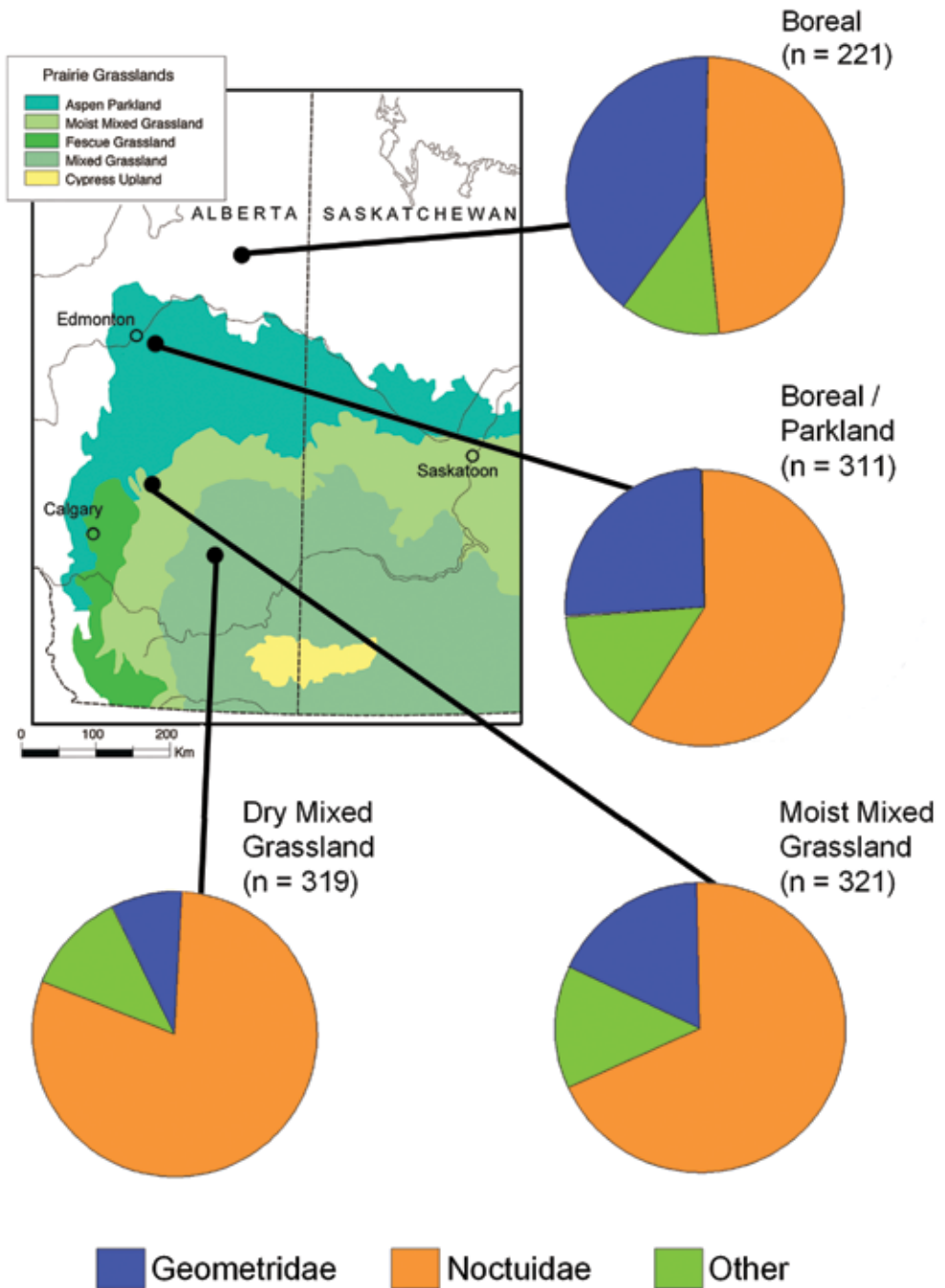


Fig. 3. Faunal shifts in species composition of macromoths over a latitudinal gradient through the Boreal Plains and Prairies ecozones of Alberta. Moth family categories as defined in Fig. 2. Boreal site = Touchwood Lake (Pohl *et al.* 2004); Boreal/Parkland site = Ministik Hills (Schmidt 2001); Moist Mixed grassland = Mackenzie Crossing, Red Deer River (CDB, unpublished report available from Alberta Lepidopterists' Guild 2014; BCS, unpublished data); Dry Mixed Grassland = Dinosaur Provincial Park, Red Deer River (GGA and BCS, unpublished data). Map modified from Shorthouse (2010).

Table 1. Total numbers of Lepidoptera species that are grasslands specialists within the Prairies Ecozone, inhabitants of other habitats within the ecozone, total inhabitants of the ecozone, and inhabitants in the ecozone in Alberta (AB), Saskatchewan (SK), and Manitoba (MB).

| Family | Grasslands in Ecozone | Other Habitats in Ecozone | Total Prairies Ecozone | Zone in AB | Zone in SK | Zone in MB |
|----------------------|--------------------------|---------------------------------|------------------------------|---------------|---------------|---------------|
| Acanthopteroctetidae | | 1 | 1 | 1 | 1 | 1 |
| Hepialidae | 1 | 1 | 2 | 2 | 2 | 1 |
| Nepticulidae | | 3 | 3 | 2 | 0 | 1 |
| Opostegidae | | 1 | 1 | 1 | 0 | 0 |
| Adelidae | 1 | 1 | 2 | 2 | 1 | 1 |
| Incurvariidae | | 1 | 1 | 1 | 1 | 1 |
| Prodoxidae | 3 | 2 | 5 | 5 | 1 | 0 |
| Tischeriidae | 1 | 1 | 2 | 1 | 1 | 2 |
| Psychidae | | 1 | 1 | 1 | 0 | 1 |
| Tineidae | 2 | 14 | 16 | 14 | 11 | 10 |
| Bucculatricidae | | 2 | 2 | 1 | 1 | 2 |
| Gracillariidae | | 26 | 26 | 20 | 19 | 19 |
| Yponomeutidae | | 2 | 2 | 2 | 2 | 0 |
| Ypsolophidae | 2 | 5 | 7 | 7 | 4 | 5 |
| Plutellidae | 1 | 3 | 4 | 4 | 2 | 1 |
| Glyphipterigidae | | 4 | 4 | 2 | 2 | 3 |
| Argyresthiidae | | 4 | 4 | 4 | 4 | 2 |
| Lyonetiidae | | 2 | 2 | 2 | 1 | 2 |
| Heliodinidae | | 1 | 1 | 0 | 0 | 1 |
| Bedelliidae | | 1 | 1 | 1 | 0 | 1 |
| Autostichidae | | 2 | 2 | 2 | 1 | 0 |
| Blastobasidae | | 7 | 7 | 4 | 3 | 5 |
| Oecophoridae | | 6 | 6 | 5 | 3 | 5 |
| Elachistidae | 19 | 36 | 55 | 39 | 33 | 35 |
| Batrachedridae | | 1 | 1 | 1 | 1 | 1 |
| Coleophoridae | 7 | 24 | 31 | 26 | 16 | 20 |
| Momphidae | 3 | 5 | 8 | 8 | 7 | 6 |
| Scythrididae | 2 | 5 | 7 | 5 | 5 | 5 |
| Cosmopterigidae | 3 | 7 | 10 | 6 | 7 | 5 |
| Gelechiidae | 50 | 81 | 131 | 98 | 66 | 75 |
| Alucitidae | | 3 | 3 | 3 | 2 | 2 |
| Pterophoridae | 14 | 13 | 27 | 27 | 19 | 23 |
| Carposinidae | | 3 | 3 | 3 | 3 | 2 |
| Schreckensteiniidae | | 1 | 1 | 1 | 0 | 1 |
| Epermeniidae | 1 | 1 | 2 | 1 | 1 | 2 |
| Choreutidae | | 2 | 2 | 2 | 1 | 0 |
| Tortricidae | 111 | 180 | 291 | 259 | 205 | 231 |
| Cossidae | 1 | 2 | 3 | 3 | 3 | 3 |
| Sesiidae | 9 | 14 | 23 | 20 | 13 | 15 |

| Family | Grasslands in Ecozone | Other Habitats in Ecozone | Total Prairies Ecozone | Zone in AB | Zone in SK | Zone in MB |
|----------------------------------|--------------------------|---------------------------------|------------------------------|---------------|---------------|---------------|
| Limacodidae | | 2 | 2 | 1 | 1 | 2 |
| Zygaenidae | | 2 | 2 | | 0 | 2 |
| Thyrididae | 1 | 1 | 2 | 1 | 2 | 2 |
| Subtotal microlepidoptera | 232 | 474 | 706 | 588 | 445 | 496 |
| Papilionidae | 5 | 4 | 9 | 6 | 7 | 5 |
| Hesperiidae | 33 | 12 | 45 | 28 | 36 | 37 |
| Pieridae | 10 | 8 | 18 | 15 | 15 | 16 |
| Riodinidae | 1 | | 1 | | 1 | |
| Lycaenidae | 20 | 18 | 38 | 29 | 36 | 27 |
| Nymphalidae | 40 | 26 | 66 | 58 | 59 | 54 |
| Subtotal butterflies | 109 | 68 | 177 | 136 | 154 | 139 |
| Pyralidae | 49 | 47 | 96 | 80 | 57 | 61 |
| Crambidae | 51 | 54 | 105 | 92 | 80 | 83 |
| Drepanidae | 1 | 7 | 8 | 8 | 8 | 7 |
| Lasiocampidae | 1 | 4 | 5 | 4 | 5 | 5 |
| Saturniidae | 4 | 7 | 11 | 6 | 6 | 10 |
| Sphingidae | 10 | 21 | 31 | 24 | 25 | 29 |
| Uraniidae | | 1 | 1 | 1 | 1 | 1 |
| Geometridae | 49 | 216 | 265 | 228 | 224 | 224 |
| Notodontidae | 1 | 37 | 38 | 22 | 33 | 38 |
| Erebidae | 52 | 94 | 146 | 109 | 120 | 130 |
| Euteliidae | 1 | 1 | 2 | 1 | 2 | 2 |
| Nolidae | | 6 | 6 | 4 | 6 | 6 |
| Noctuidae | 393 | 242 | 635 | 528 | 517 | 495 |
| Subtotal macromoths | 612 | 737 | 1349 | 1107 | 1084 | 1091 |
| Total | 953 | 1279 | 2232 | 1831 | 1683 | 1726 |

Distribution Patterns

This analysis of distribution patterns of Lepidoptera of the Prairies Ecozone is drawn mainly from the distributional data on macromoths and butterflies because most of the microlepidoptera, except for the forest species, have not been extensively collected and the limits of their distributions are incompletely known. There are three main terrestrial habitat types within the Prairies Ecozone: (1) deciduous woodlands, (2) prairie thickets, and (3) open aridlands. We examine each of these habitat types and give examples of distribution patterns associated with them.

The Prairies Ecozone encompasses a nationally and globally unique assemblage of Lepidoptera communities. Many Prairies Ecozone species are known also from relict prairie habitats in Ontario, as well as from dune and grassland habitats in the Maritimes. However, a significant portion of the fauna has western Cordilleran/grassland affinities, as 20% of the prairie moth fauna occur also in British Columbia (but not east of the Prairie Provinces). An additional 70% have either transcontinental or predominantly eastern

distributions. At least 173 species are believed to occur in Canada only in the ecozone (see Table 6). About 10% of butterflies (18 species) and 9% of macromoths (119 species) of the ecozone are found nowhere else in Canada (Table 2); most are Great Plains species that are at the northern edge of their distribution. Of the macromoth species restricted in Canada to the ecozone, all but 11 occur exclusively or primarily in grassland habitats. Several of the exceptions are restricted to the aspen parkland (see “Deciduous Woodlands” section below), but two are Montane Cordillera species occurring marginally in prairie grassland (*Anarta alta* and *Apamea unita*), and an additional three species are restricted to oak savanna and shrubby habitats in Manitoba (*Anisota manitobensis*, *Catocala whitneyi*, *Acrionicta falcula*), but are not known to occur in similar habitats in Ontario or elsewhere in Canada. Sixteen macromoth and butterfly species are restricted to Manitoba alone (Table 2), representing mostly tallgrass prairie and oak savanna specialists of the American Midwest. By comparison, the grassland fauna of Saskatchewan is almost entirely shared with that of Alberta; the five species nationally unique to Saskatchewan are species that either could occur in Alberta, or have not been collected since their original description. Thirty-four Prairies Ecozone species are known in Canada only from Alberta.

Three of the most poorly known North American macromoths were described from the Prairies Ecozone: *Euxoa unica*, *Agrotis kingi*, and *Animomyia hardwicki*, which to this day are known only from the type series collected many years ago. *Schinia verna* is another species globally endemic to the Canadian Prairies, and *Aspitates aberrata* is nearly so. Additionally, the micromoth *Coleotechnites biopes* is globally endemic to the Cypress Hills within the Prairies Ecozone.

Deciduous Woodlands

Woodland habitats occur in northern parts of the ecoregion that transition to cooler and/or wetter climatic conditions than are found in the south, as well as in riparian gallery forest along the major river valleys in the prairie grasslands. Species in the Prairies Ecozone associated with woodland habitats are mostly more typical of the Boreal Shield and Boreal Plains ecozones to the north, or of the Montane Cordillera Ecozone to the west (these species are shown with a lower case ‘p’ in Table 6). Although most species of woodland habitats in the Prairies Ecozone are boreal species at the margin of their core range, exceptions exist where incursions of other faunal elements occur (e.g., oak savanna and eastern deciduous forest); a few examples are given below.

Table 2. Summary of Prairies Ecozone butterflies and macromoths that are restricted to the Prairie Provinces. Abbreviations: AB = Alberta; MB = Manitoba; SK = Saskatchewan.

| Region | Species |
|---------------|----------------|
| AB, SK, MB | 38 |
| AB, SK | 37 |
| SK, MB | 7 |
| AB, MB | 1 |
| AB | 34 |
| SK | 5 |
| MB | 16 |
| Total | 138 |

Aspen forests dominate the landscape in the Aspen Parkland and Lake Manitoba Plain ecoregions, with smaller amounts of spruce (*Picea* spp.), birch (*Betula* spp.), and tamarack (*Larix laricina* (Du Roi) K. Koch) (Bird 1961). These ecoregions are high in diversity because such a large portion of the boreal zone species and many grassland species occur in the patchwork of habitats that they contain. The combination of both boreal and grasslands elements is reflected in proportions of woody-feeding Noctuoidea species, which are intermediate between those of boreal and grasslands sites (Figs. 1 and 2). The transitional nature of the Aspen Parkland and Lake Manitoba Plain ecoregions results in very few species being specifically characteristic of these ecoregions; rather, these ecoregions consist of species of the Boreal Shield and Boreal Plains ecozones that can tolerate the drier, warmer habitats that abound along with the more ubiquitous portions of the grassland fauna. In Canada, *Hemileuca nevadensis*, *Grammia margo*, *Melaporphyria immortua*, and *Dysstroma rutlandia* are endemic to the Aspen Parkland Ecoregion.

Forests in the Southwest Manitoba Uplands Ecoregion in the Pembina Hills (e.g., Spruce Woods Provincial Park) and Turtle Mountain (Turtle Mountain Provincial Park) are also dominated by aspen groves, with smaller proportions of balsam poplar (*Populus balsamifera* L.), balsam fir (*Abies balsamea* (L.)), and white spruce (*Picea glauca* (Moench) Voss) in well-drained areas, and tamarack and black spruce (*Picea mariana* (Mill.) BSP) in wet areas. The Aspen Parkland Ecoregion is transitional, whereas the Southwest Manitoba Uplands Ecoregion has more affinities in its plant and insect faunas with those of the Boreal Plains Ecozone than with those of the Prairies Ecozone; these areas classified as Southwest Manitoba Uplands Ecoregion are essentially disjunct islands of Boreal Plains Ecozone habitat within the Prairies Ecozone.

In the Cypress Upland Ecoregion in southwestern Saskatchewan and southeastern Alberta, the spruce and aspen forests mix with Montane Cordillera plants such as lodgepole pine (*Pinus contorta* Dougl. ex. Loud. var. *latifolia* Engelm.). A significant portion of boreal zone species are replaced in these forests by species associated with the Montane Cordillera Ecozone; this disjunct upland community may be better classified as an outpost of the Montane Cordillera Ecozone than as Prairies Ecozone. Montane Cordillera Lepidoptera that occur in this ecoregion include butterflies such as Rocky Mountain Parnassian (*Parnassius smintheus*), margined white (*Pieris marginalis*), and Edith's checkerspot (*Euphydryas editha*), as well as moths (e.g., *Xestia speciosa*). The gelechiid moth *Coleotechnites biopes* is globally endemic to the Cypress Hills. Within Canada, Bernadette's checkerspot (*Euphydryas bernadetta*) occurs only in the Cypress Hills.

Trees more characteristic of the Mixedwood Plains Ecozone occur in pockets across southern Manitoba and adjacent Saskatchewan. The most obvious of these are bur oak and Manitoba maple (*Acer negundo* L.), but small numbers of eastern cottonwood (*Populus deltoides* Bartr. ex. Marsh. ssp. *deltoides*), narrow-leaf cottonwood (*P. angustifolia* James), hackberry (*Celtis occidentalis* L.), basswood (*Tilia americana* L.), ironwood (*Ostrya virginiana* (Mill.) K. Koch), ash (*Fraxinus* spp.), and American elm also occur. Lepidoptera species associated with these trees are at the northern limit of their range here and some otherwise occur only as far north as southern Ontario. Examples include two skipper butterflies, the southern cloudywing (*Thorybes bathyllus*) and sleepy duskywing (*Erynnis brizo*); the hackberry butterfly (*Asterocampa celtis*); and moths such as the scarlet underwing moth (*Catocala coccinata*) and oakworm moth (*Anisota virginiensis*). *Anisota manitobensis* and *Acrionicta exilis* are two species dependent on oak savanna habitats within their Canadian range.

A final type of deciduous woodland habitat in the Plains Ecozone are riparian forests, usually cottonwoods (*Populus* spp.), which occur along stream and river margins. Many *Populus* feeding species of the Aspen Parkland and Lake Manitoba Plain ecoregions may occur in these gallery forests, but some species are specialized to them, such as the two-tailed swallowtail (*Papilio multicaudata*) and Weidemeyer's admiral (*Limenitis weidemeyerii*). Although constituting a relatively minor spatial portion of the grasslands ecoregion, riparian woodlands are critical determinants of Lepidoptera diversity here: well over half of the species in the non-Noctuidae categories (Fig. 1) rely on woody plants for larval hosts, in contrast to the sharp decrease in the proportion of woody-dependent species of Noctuidae in the grasslands. Another interesting faunal difference between riparian and transition zone woodlands is the presence of several eastern deciduous forest species in southern riparian woodlands, which are otherwise absent farther north. Examples include *Phigalia titea*, *Hyalophora cecropia*, and several species of *Catocala*.

Prairie Thickets

Areas where shrubs abound, such as protected hillsides, valley bottoms in the rolling prairie, and margins of wet sloughs, form a distinctive habitat within the Prairies Ecozone and offer shelter to a wide range of wildlife. On hillsides and drier sites, shrubs such as wolfberry (*Symphoricarpos occidentalis* Hook.), silverberry (*Elaeagnus commutata* Bernh. ex. Rydb.), and buffaloberry (*Shepherdia argentea* Nutt.) dominate, with saskatoon (*Amelanchier alnifolia* (Nutt.) Nutt.), chokecherry (*Prunus virginiana* L.), and various species of willow (*Salix* spp.) predominating in wetter areas. These shrub communities support the fauna that feeds on the shrubs themselves, as well as birds and mammals that use them for protection and nesting sites. Shrubs with a particularly diverse Lepidoptera fauna are willow, cherry (*Prunus* spp.), and saskatoon, host to many Geometridae and a number of Noctuidae genera such as *Acronicta* and *Lithophane*. The Weidemeyer's admiral, a target species for conservation status (Committee on the Status of Endangered Wildlife in Canada (COSEWIC) 2012), is dependent on willow and cherry thickets in southernmost Alberta. The owl moths *Orthosia segregata* and *Sympistis chionanthi* are associated with the plants of the olive family (*Shepherdia* and *Elaeagnus* species, respectively). Shrubs in the honeysuckle family, such as *Symphoricarpos* and *Lonicera* species, also have a varied and specialized fauna, such as *Sphinx vashti*, *Hemaris diffinis*, *Callizzia amorata*, and several species of *Sympistis*. Although more typical of boreal and deciduous forest than prairie thickets, hazel (*Corylus* spp.) hosts two species (*Acronicta falcata*, *Bagisara rectifascia*) known in Canada only from southwestern Manitoba. These appear to be cases of a prairie climate determining the distribution of southern moths on a widespread host plant.

Open Aridlands

Open aridland habitat can be subdivided into three groups: grasslands, badlands, and dunes. Grasslands are frequently further classified into three groups, defined mainly by the dominant grasses (Coupland 1961; Sims *et al.* 1978): (1) tallgrass prairie, which occurs mainly along the more moist eastern edge of the Great Plains and is characterized by grasses such as big bluestem (*Andropogon gerardi* Vitman) and prairie dropseed (*Sporobolus heterolepis* (Gray) Gray); (2) shortgrass prairie, which occurs mainly in southern Alberta and southwestern Saskatchewan and is characterized by grass species such as blue grama (*Bouteloua gracilis* (HBK) Lag.), buffalo grass (*Buchloe dactyloides* (Nutt.) Engelm.), and speargrass (*Stipa comata* Trin. & Rupr.); and (3) mixed prairie, which is characterized by a wide range of both short and tall types of grasses such as June grass (*Koeleria*

gracilis (Ledeb.) J.A. Schultes f.). Some characteristic plants of the grasslands are ball cactus (*Escobaria vivipara* (Nutt.) Buxbaum), two species of prickly-pear cactus (*Opuntia fragilis* (Nutt.) Haw. and *O. polyacantha* Haw.), gumweed (*Grindelia squarrosa* (Pursh) Dunal), blazingstar (*Liatris punctata* Hook.), pasture sage (*Artemisia frigida* Willd.), and linear-leaved wormwood (*Artemisia dracunculus* L.).

Some Lepidoptera species are widely distributed in the ecozone grasslands and also occur to varying degrees in other areas of Canada. The great spangled fritillary (*Speyeria cybele*) and long dash skipper (*Polites mystic*) occur across most of southern Canada in grassy habitats and throughout the Prairies Ecozone. Others such as the uncas skipper (*Hesperia uncas*) occur throughout the Prairies Ecozone and are restricted to it in Canada. Others are mainly distributed in the Prairies Ecozone, but occur in relict prairie habitat elsewhere: The garita skipperling (*Oarisma garita*) also occurs on Great La Cloche Island near Manitoulin Island in Ontario, in relict prairie habitat in the Peace River area of Alberta and British Columbia, and in a few areas of the dry interior of British Columbia; the plains skipper (*Hesperia assiniboia*), bertha armyworm (*Mamestra configurata*), and Uhler's arctic (*Oeneis uhleri*) also occur in grassland habitat in the Peace River area; the gorgone checkerspot (*Chlosyne gorgone*) and Melissa blue (*Plebejus melissa*) occur in a few areas in Ontario; and the latter also occurs in southern British Columbia.

Some species are highly restricted within the ecozone. Poweshiek skipperling (*Oarisma poweshiek*), Dakota skipper (*Hesperia dacotae*), and Ottoo skipper (*Hesperia ottoo*) are restricted to tallgrass prairie in southern Manitoba and are threatened or endangered in Canada. The latter has not been seen since the late 1980s and may be extirpated from Canada (COSEWIC 2005). Two rare moths (*Catocala whitneyi*, *Schinia lucens*) are dependent on leadplant (*Amorpha* spp.), which is rare in Canada. Shasta blue (*Plebejus shasta*) and Ridings' satyr (*Neominois ridingsii*) are associated with shortgrass prairie. Four species of skippers, simius roadside skipper (*Notamblyscirtes simius*), Oslar's roadside skipper (*Amblyscirtes oslari*), pahaska skipper (*Hesperia pahaska*), and rhesus skipper (*Polites rhesus*), are widely distributed in shortgrass prairie in the western Great Plains of the United States, where they are associated with blue grama grass but have been recorded only two, eight, four, and seven times, respectively, in Canada. It has not been determined whether these represent stragglers or if permanent colonies exist in Canada. Another group of highly restricted species in the grasslands are those associated with yucca plants (*Yucca* spp.), restricted in Canada to two tiny sites in southeastern Alberta. This group includes three micromoths (*Tegeticula yuccasella*, *T. corruptrix*, and *Prodoxus quinquepunctella*) and a skipper (*Megathymus streckeri*).

The badlands are a localized and specialized habitat of heavily eroded sites, usually along rivers. The three most extensive and significant badlands are prehistoric in their origins, originating when the associated rivers were very large and eroded extensive areas adjacent to them. These three areas are along the Red Deer River (e.g., Dinosaur Provincial Park, Alberta), the Milk River (e.g., Writing-on-Stone Provincial Park, Alberta), and the Frenchman River (e.g., Grasslands National Park near Val Marie, Saskatchewan). Plants such as rabbitbrush (*Chrysothamnus nauseosus* (Pall.) Britt.) and sand-lily (*Mentzelia decapetala* (Sims) Urban & Gilg) are characteristic. Some Lepidoptera associated with badlands are the sagebrush checkerspot butterfly (*Chlosyne acastus*) and the moths *Sideridis uscripta*, *Euxoa misturata*, *E. citricolor*, *Abagrotis discoidalis*, *Protogygia enalaga*, and *P. querula*. Most species associated with the badlands of the Prairies Ecozone are widely distributed in the Great Basin in the western United States but find suitable xeric habitat in the isolated pockets of badlands habitat in Canada.

Areas of open active dunes are not common in the Prairies Ecozone but do have a specialized moth fauna (Acorn 2011). Numerous species are restricted entirely to dune habitats, several of which have been targeted for conservation work (e.g., *Copablepharon* spp., *Schinia avemensis*; see “Endangered and Threatened Species” section below). Characteristic plants of open dunes are Indian rice grass (*Oryzopsis hymenoides* (R. & S.) Ricker), prairie sand reed (*Calamovilfa longifolia* (Hook.) Scribn.), sand dropseed (*Sporobolus cryptandrus* (Torr.) A. Gray), and sand dock (*Rumex venosus* Pursh). The largest dune areas are the Great Sand Hills of Saskatchewan, but smaller dunes occur throughout the ecozone. Several species of cutworms are specialized to dunes, including *Copablepharon* spp., *Euxoa perpolita*, *E. aurulenta*, *E. scandens*, *Sideridis artesta*, and *Sympistis riparia*. A geometrid moth, *Animomyia hardwicki*, is known globally only from the type material collected in the Great Sand Hills. No butterflies are restricted to dunes, although several such as *Lycaena rubidus*, *Neominois ridingsii*, and *Oeneis alberta* are often associated with sandy prairie habitats near dunes. The dune moth fauna varies considerably across the ecoregion, likely reflecting regional climate differences, local moisture regimes, and differences in geological parent material of the sand. For example, at least two species (*Pygarctia spraguei*, *Schinia bimatrix*) are known in Canada only from the Spirit Sands in Manitoba.

Lepidoptera Migrants and Vagrants

A total of 28 species of Lepidoptera occur in the Prairies Ecozone only as regular seasonal migrants or occasional strays. The number of tropical and subtropical moths and butterflies that migrate northward each summer is much greater in eastern and central North America than in the west. The Atlantic Coast, Mississippi Valley, and the Great Plains form natural flyways for migrants coming from the south, whereas the complex patterns of mountain ranges, desert areas, and diverse habitats in western United States and Canada seem to limit the northward movement of species. The most famous of the migrants is the monarch (*Danaus plexippus*); the population in the Prairies Ecozone and in eastern Canada overwinters in Mexico, whereas those that occur in the Montane Cordillera Ecozone to the west overwinter in California. The painted lady (*Vanessa cardui*) is another regular migrant. Four others, the sacheem (*Atalopedes campestris*), American lady (*Vanessa virginiensis*), variegated fritillary (*Euptoieta claudia*), and question mark (*Polygonia interrogationis*), are infrequent migrants into the ecozone. Another group of powerful fliers, the sphinx moths (Sphingidae), includes only one regular migrant in the ecozone (*Hyles lineata*) and one that has been reported only twice (*Eumorpha labruscae*). Two other families of Lepidoptera show a fair proportion of vagrant species: the Noctuidae and Crambidae. Among pest species of Noctuidae that migrate regularly into the Prairies Ecozone are the fall armyworm (*Spodoptera frugiperda*), variegated cutworm (*Peridroma saucia*), and black cutworm (*Agrotis ipsilon*). Among the Crambidae, two pest species are migrants: the alfalfa webworm (*Loxostege cereralis*) and beet webworm (*Loxostege sticticalis*). The only migratory species of microlepidoptera in the Prairies Ecozone is the diamond back moth (*Plutella xylostella*), which can occasionally overwinter in western Canada (Doddall 1994), but often travels in huge windblown swarms numbering many millions of moths and has even reached Greenland. The spread of the diamond back moth and other pest migrants has probably been greatly aided by human activity.

Recent Changes in Distribution

Recent changes in Lepidoptera distribution involve both expanding and contracting ranges. Natural changes in distribution can be difficult to detect because they tend to be slower and more subtle than the dramatic changes caused by human activity. Unfortunately, most expanding ranges involve introduced species and most contracting ranges involve native species that are becoming less widespread or less common with the destruction of their natural habitats.

Introduced Species

The presence of introduced species in Canada, and their impact, is most significant in British Columbia, where 126 introduced species of Lepidoptera have been reported (Pohl *et al.*, in press), mainly in the greater Vancouver area. Most of these species have not been able to spread over the mountains into central Canada. The second most important area in Canada for accidental introductions of exotic species is in the Atlantic provinces, where about 50 introduced species occur. Again, most of these species have not spread westward as far as the Prairies Ecozone, but the yellow underwing moth (*Noctua pronuba*) has arrived recently, and the potato stem borer (*Hydraecia micacea*) is expected to be reported in the next few years. At present, at least 42 introduced species occur in the Prairies Ecozone. The spurge hawkmoth (*Hyles euphorbiae*) was introduced as a possible biological control agent for spurges, especially leafy spurge (*Euphorbia esula* L.). Two other species were originally introduced into eastern Canada and have spread into the Prairies Ecozone. The cabbage white (*Pieris rapae*) was introduced near Quebec City in about 1860 and has become abundant in urban and agricultural areas of North America; it now occurs throughout the Prairies Ecozone. The European skipper (*Thymelicus lineola*) was introduced at London, Ontario, in about 1910 and has spread widely in eastern North America but more locally in central and western North America. The spread of this species in central Alberta is relatively well-documented (Schmidt *et al.* 2003) and continues today. It feeds on a variety of grasses, but timothy grass (*Phleum pratense* L.), a common pasture grass, is preferred.

Native Species

Most of the changes in the range of native species are due to human activities and are dealt with in the following section. Documentation of natural changes in native species ranges is difficult because it requires enough survey effort so that negative evidence (lack of records) can be reliably taken as valid evidence that the species is, or was, absent. Expansions of range into central Alberta have been documented for the butterfly species *Lethe anthedon* (Schmidt *et al.* 2003) and *Poanes hobomok* (Pohl *et al.* 2010). Another species that has naturally expanded into the Prairies Ecozone is the dayflying arctiine moth *Ctenucha virginica*, which arrived in the aspen parkland of Alberta from the boreal forest to the north in the 1970s (Pohl *et al.* 2010).

Several changes in butterfly distribution and flight times have been noted in Manitoba in recent years. The northern broken-dash (*Wallengrenia egeremet*) was collected for the first time in Manitoba in 2006, and it appears to have established a permanent population there (Semmler and Westwood 2013). There have also been significant northward range expansions in Manitoba by the common buckeye (*Junonia coenia*) and Baltimore checkerspot (*Euphydryas phaeton*) in recent years (Taylor *et al.* 2008; Taylor and Westwood 2010). Additionally, Westwood and Blair (2010) examined 19 butterfly species in southeastern Manitoba and found that, over the period 1974–2004, 13 of these species had extended their flight periods later into the summer in more recent years, likely due to climate change.

Table 3. Lepidoptera of conservation concern in the Prairies Ecozone. Ranks are from the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) (2011) and the Canadian Endangered Species Conservation Council (CESCC) (2011). Abbreviations: AB = Alberta; MB = Manitoba; ON = Ontario; QC = Quebec; SK = Saskatchewan.

| Taxon | COSEWIC (or CESCC) Rank | Occurrence and Habitat |
|--------------------------------------|---|--|
| Prodoxidae | | |
| <i>Prodoxus quinquepunctella</i> | Endangered | AB: prairie coulees |
| <i>Tegeticula corruptrix</i> | Endangered | AB: prairie coulees |
| <i>Tegeticula yuccasella</i> | Endangered | AB: prairie coulees |
| Hesperiidae | | |
| <i>Atrytonopsis hianna</i> | Not evaluated (sensitive CESCC) | SK, MB: virgin prairie; ON: sandy oak savanna |
| <i>Erynnis martialis</i> | Under review (secure CESCC) | MB, ON, QC: open woods, sandy areas, alvars |
| <i>Hesperia dacotae</i> | Threatened | SK, MB: prairie |
| <i>Hesperia ottoe</i> | Endangered | MB: native prairie |
| <i>Hesperia pahaska</i> | Not evaluated (may be at risk CESCC) | SK, MB: prairie, open pine forest |
| <i>Hesperia uncas</i> | Not evaluated (at risk CESCC) | AB, SK, MB: prairie |
| <i>Megathymus streckeri</i> | Not evaluated | AB: prairie coulees |
| <i>Oarisma poweshiek</i> | Threatened | MB: prairie |
| <i>Pyrgus scriptura</i> | Not evaluated (may be at risk CESCC) | AB, SK: shortgrass prairie |
| Riodinidae | | |
| <i>Apodemia mormo</i> (prairie pop.) | Threatened | SK: prairie badlands |
| Nymphalidae | | |
| <i>Danaus plexippus</i> | Special Concern | Distributed across southern Canada |
| <i>Limenitis weidemeyerii</i> | Special Concern | AB: prairie coulees |
| <i>Neominois ridingsii</i> | Not evaluated (extirpated/sensitive CESCC) | AB, SK; formerly MB: prairie |
| <i>Speyeria edwardsii</i> | Not evaluated (may be at risk CESCC) | AB, SK, MB: prairie, foothills |
| <i>Speyeria idalia</i> | Not evaluated (extirpated CESCC) | SK, MB, ON: tallgrass prairie, forest clearings |
| Saturniidae | | |
| <i>Anisota manitobensis</i> | Not evaluated (may be at risk CESCC) | MB: bur oak parkland |
| <i>Hemileuca nevadensis</i> | Not evaluated (may be at risk CESCC) | AB, SK, MB: parkland dunes; ON: fens |
| Noctuidae | | |
| <i>Copablepharon longipenne</i> | Endangered | AB, SK, MB: prairie dunes |
| <i>Copablepharon grandis</i> | Special Concern | AB, SK, MB: prairie dunes |
| <i>Melaporphyria immortua</i> | Data Deficient | AB, SK, MB: aspen parkland |
| <i>Papaipema aweme</i> | Endangered | MB, ON: prairie |
| <i>Schinia avemensis</i> | Endangered | AB, MB: prairie dunes |
| <i>Schinia bimatrix</i> | Endangered | MB: prairie dunes |
| <i>Schinia lucens</i> | Not evaluated | MB, ON: prairie |
| <i>Schinia sanguinea</i> | Not evaluated | SK, ON: prairie |
| <i>Schinia verna</i> | Threatened | AB, SK, MB: prairie |

Endangered and Threatened Species

The Prairies Ecozone is home to numerous species with very specific habitat requirements, and some of these species occur in only a few places in Canada or even globally. Through a combination of factors such as high human population density, agricultural land conversion, and small or limited populations, there are more Lepidoptera species of conservation concern in this ecozone than in any other in Canada (Table 3).

Hall *et al.* (2011) provide an excellent summary of federal and provincial conservation efforts in relation to prairie insects. The primary means of protecting insect species is assessment by COSEWIC and subsequent listing in the *Species at Risk Act*. In contrast to the in-depth assessments of a small number of species by COSEWIC, the Wild Species reports of the National General Status Working Group of the Canadian Wildlife Service present and track the general conservation status of large numbers of Canadian species, without the detail required for legal protection. The most recent report (Canadian Endangered Species Conservation Council (CESCC) 2011) listed 302 butterfly species and 236 of the better known macromoth species. In that report, a number of species occurring in the grasslands of western Canada are given rankings of less than “secure” (Table 4). The high number of “undetermined” species attests to the fact that, even among these “better known” butterflies and selected macromoths, information upon which to base conservation decisions is spotty.

Provincial Lepidoptera conservation efforts vary widely. In Alberta and Saskatchewan, insects are not formally recognized as “wildlife,” and so they are not afforded any specific protection under their respective Provincial Wildlife Acts (Alberta Environment and Sustainable Resource Development 2012; Saskatchewan Conservation Data Centre 2012). However, insects can still be designated as endangered or threatened species there, which garners them some conservation management. Saskatchewan has not designated any Lepidoptera species, but Alberta has assessed three Lepidoptera species, and has designated one – Weidemeyer’s admiral (*Limenitis weidemeyerii*) - as a “species of special concern”. In Manitoba, most of the federally listed Lepidoptera species that occur in the province are listed under the Manitoba Endangered Species Act (Table 5) (Manitoba Wildlife Branch 2012).

Most of the threatened and endangered species in the Prairies Ecozone are at risk because of conversion of natural prairie habitat into agricultural lands, the patches of

Table 4. National General Status ranks of Lepidoptera species occurring in the Prairies Ecozone in Canada, summarized from the Canadian Endangered Species Conservation Council (CESCC) (2011). Abbreviations: AB = Alberta; MB = Manitoba; SK = Saskatchewan.

| Rank | Butterflies | | | Selected Macromoths | | |
|----------------|-------------|-----|-----|---------------------|----|----|
| | AB | SK | MB | AB | SK | MB |
| Extinct | 0 | 0 | 0 | 0 | 0 | 0 |
| Extirpated | 0 | 0 | 1 | 1 | 0 | 0 |
| At risk | 0 | 0 | 2 | 0 | 0 | 0 |
| May be at risk | 1 | 8 | 13 | 1 | 0 | 3 |
| Sensitive | 20 | 21 | 7 | 5 | 5 | 10 |
| Secure | 104 | 107 | 112 | 72 | 58 | 54 |
| Undetermined | 37 | 11 | 7 | 12 | 25 | 38 |
| Not assessed | 0 | 0 | 1 | 0 | 0 | 0 |
| Exotic | 2 | 2 | 2 | 2 | 1 | 1 |
| Accidental | 2 | 10 | 13 | 2 | 6 | 7 |

Table 5. Lepidoptera species protected under the Manitoba *Endangered Species Act* (Manitoba Wildlife Branch 2012).

| Species | Status |
|--|------------|
| Dusky dune moth (<i>Copablepharon longipenne</i>) | Endangered |
| Gold-edged gem (<i>Schinia avemensis</i>) | Endangered |
| Pale yellow dune moth (<i>Copablepharon grandis</i>) | Endangered |
| Poweshiek skipperling (<i>Oarisma poweshiek</i>) | Endangered |
| Uncas skipper (<i>Hesperia uncas</i>) | Endangered |
| Verna's flower moth (<i>Schinia verna</i>) | Endangered |
| White flower moth (<i>Schinia bimatrix</i>) | Endangered |
| Dakota skipper (<i>Hesperia dacotae</i>) | Threatened |
| Ottoo skipper (<i>Hesperia ottoe</i>) | Threatened |
| Ridings' satyr (<i>Neominois ridingsii</i>) | Extirpated |

remaining native prairie becoming too small and fragmented to support them. Hall *et al.* (2011) identified threats to host plants, stabilization of dunes, and cattle disturbance as the top three threats to insects (including Lepidoptera) in the Prairies Ecozone. The three species of yucca moths (family Prodoxidae) and the skipper *Megathymus streckeri* are examples of insects that are limited by their host plant *Yucca glauca* Nutt., which occurs in Canada only in a tiny area of southeastern Alberta. Dune specialists such as *Schinia avemensis*, *S. bimatrix*, *Copablepharon longipenne*, and *C. grandis* are examples of species that are dependent on relatively small, specialized habitats.

The Edwards' fritillary (*Speyeria edwardsii*) and Ridings' satyr (*Neominois ridingsii*) occurred across the southern portion of the Prairies Ecozone in Canada in the early part of the 20th century, but the former has not been recorded in Manitoba since 1934 and the latter has not been seen since 1953. It is likely that these and other species are disappearing from seemingly suitable habitat because these prairie remnants are too small to support populations of butterflies that tend to wander away from the core habitat, and the colony gradually declines and disappears. Another example of a shifting range is the Dakota skipper (*Hesperia dacotae*). It was historically recorded at only 10 sites in Canada, all in Manitoba. Surveys in 2002 confirmed that it had disappeared from virtually all of its former tallgrass prairie sites, although it was fortunately discovered in a number of new colonies in mixedgrass and shortgrass habitat, including in Saskatchewan (COSEWIC 2003). This highlights the need for more basic survey work focused on highly impacted and fragmented habitats such as tallgrass prairie.

Probably the most critical area in the Prairies Ecozone, in terms of habitat frailty, habitat loss, and threatened and endangered species, is the remnant tallgrass prairie in southern Manitoba. Most of the habitat is not protected and we still know little of the status of the Lepidoptera species confined to this habitat. The core range of the tallgrass prairies in the Upper Midwest are one of the most severely impacted native ecosystems in North America, compounding the need for focusing Lepidoptera conservation efforts on this region in particular (Metzler *et al.* 2005).

A roadblock to protection of Lepidoptera species at risk is the lack of solid information on host plants, range, and population size. For example, in the case of *Melaporphyria immortua*, a moth that has not been observed in decades, the lack of even basic biological data resulted in a "Data Deficient" designation after a conservation status assessment (Table 3).

Table 6. Checklist of Lepidoptera species reported to occur in the Prairies Ecozone of Canada. The following is a list of all Lepidoptera species that are known to occur in the Prairies Ecozone. The classification scheme presented here incorporates all relevant published names, and nomenclature changes that the authors are aware of, up to the end of 2013. *Species checklist available at <http://dx.doi.org/10.5886/g46dj1kp>*

Key:

First column: * Indicates species restricted (in Canada) to the Prairies Ecozone

Second column: Status in Prairies Ecozone:

G: species that occur in grasslands habitat

p: species that occur in other habitats within the Prairies Ecozone

Next three columns: Occurrence only in Alberta (AB), Saskatchewan (SK), and Manitoba (MB):

AB; SK; MB: confirmed occurrence in the respective province

P: probable occurrence in that province

U: unconfirmed occurrence in that province

H: occurrence only in human habitats (e.g., greenhouses, buildings)

M: migrants

S: occasional strays

Last column: I indicates species introduced to North America

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| Superfamily Acanthopteroctetoidea | | | |
| Family Acanthopteroctetidae | | | |
| <i>Acanthopteroctetes bimaculata</i> Davis, 1969 | p | AB SK MB | |
| Superfamily Hepialoidea | | | |
| Family Hepialidae | | | |
| <i>Gazoryctra novigannus</i> (Barnes & Benjamin, [1926]) | G | AB SK | |
| <i>Sthenopsis purpurascens</i> (Packard, 1863) | p | AB SK MB | |
| Superfamily Nepticuloidea | | | |
| Family Nepticulidae | | | |
| Subfamily Nepticulinae | | | |
| Tribe Trifurculini | | | |
| <i>Ectoedemia populella</i> Busck, 1907 | p | | MB |
| <i>Ectoedemia canutus</i> Wilkinson & Scoble, 1979 | p | AB | |
| <i>Ectoedemia marmaropa</i> (Braun, 1925) | p | AB | |
| Family Opostegidae | | | |
| Subfamily Oposteginae | | | |
| <i>Pseudopostega cretea</i> (Meyrick, 1920) | p | AB | |
| Superfamily Adeloidea | | | |
| Family Adelidae | | | |
| Subfamily Adelinae | | | |
| <i>Cauchas cockerelli</i> (Busck, 1915) | p | AB | |
| <i>Adela purpurea</i> Walker, 1863 | G | AB SK MB | |
| Family Incurvariidae | | | |
| <i>Paraclemensia acerifoliella</i> (Fitch, 1854) | p | AB U MB | |
| Family Prodoxidae | | | |
| Subfamily Prodoxinae | | | |
| <i>Lampronia aenescens</i> (Walsingham, 1888) | p | AB | |
| <i>Lampronia sublustris</i> Braun, 1925 | p | AB SK | |
| <i>Tegeticula yuccasella</i> (Riley, 1872) * | G | AB | |
| <i>Tegeticula corruptrix</i> Pellmyr, 1999 * | G | AB | |
| <i>Prodoxus quinquepunctella</i> (Chambers, 1875) * | G | AB | |
| Superfamily Tischerioidea | | | |
| Family Tischeriidae | | | |
| <i>Astrotischeria solidagonifoliella</i> (Clemens, 1859) | p | | MB |
| <i>Coptotriche admirabilis</i> (Braun, 1925) | G | AB SK MB | |

| | Status | Occurrence | | | Introduced? |
|--|--------|------------|----|----|-------------|
| Superfamily Tineoidea | | | | | |
| Family Psychidae | | | | | |
| Subfamily Naryciinae | | | | | |
| <i>Dahlia triquetrella</i> (Hübner, 1812) | p | AB | MB | | I |
| Family Tineidae | | | | | |
| Subfamily Meessiinae | | | | | |
| <i>Homostinea curviliniella</i> Dietz, 1905 * | p | | MB | | |
| Subfamily Myrmecozelinae | | | | | |
| <i>Haplotinea insectella</i> (Fabricius, 1794) | p | H | H | H | I |
| Subfamily Nemapogoninae | | | | | |
| <i>Nemapogon acapnopennella</i> (Clemens, 1863) | p | AB | SK | MB | |
| <i>Nemapogon roburella</i> (Dietz, 1905) | p | AB | | | |
| Subfamily Tineinae | | | | | |
| <i>Tinea irrepta</i> Braun, 1926 | G | AB | SK | MB | |
| <i>Tinea pellionella</i> (Linnaeus, 1758) | p | H | | | I? |
| <i>Niditinea fuscella</i> (Linnaeus, 1758) | p | AB | | | |
| <i>Niditinea orleansella</i> (Chambers, 1873) | p | AB | SK | MB | |
| <i>Monopis crocicapitella</i> (Clemens, 1859) | p | AB | SK | | |
| <i>Monopis laevigella</i> ([Denis & Schiffermüller], 1775) | p | AB | SK | P | |
| <i>Monopis monachella</i> (Hübner, 1796) | p | AB | SK | MB | |
| <i>Monopis spilotella</i> Tengström, 1848 | p | AB | SK | MB | |
| <i>Elatobia carbonella</i> (Dietz, 1905) | p | AB | SK | | |
| <i>Tineola bisselliella</i> (Hummel, 1823) | p | H | H | H | I? |
| Subfamily Acrolophinae | | | | | |
| <i>Amydria effrentella</i> Clemens, 1859 | G | AB | SK | MB | |
| <i>Amydria obliquella</i> Dietz, 1905 | p | | | MB | |
| Superfamily Gracillarioidea | | | | | |
| Family Bucculatricidae | | | | | |
| <i>Bucculatrix canadensisella</i> Chambers, 1875 | p | AB | SK | MB | |
| <i>Bucculatrix pomifoliella</i> Clemens, 1860 | p | | | MB | |
| Family Gracillariidae | | | | | |
| Subfamily Gracillariinae | | | | | |
| <i>Caloptilia acerifoliella</i> (Chambers, 1875) | p | AB | | | |
| <i>Caloptilia alnivorella</i> (Chambers, 1875) | p | AB | SK | MB | |
| <i>Caloptilia anthobaphes</i> (Meyrick, 1921) | p | AB | SK | | |
| <i>Caloptilia betulivora</i> McDunnough, 1946 | p | AB | SK | | |
| <i>Caloptilia cornusella</i> (Ely, 1915) | p | AB | SK | MB | |
| <i>Caloptilia fraxinella</i> (Ely, 1915) | p | AB | SK | | |
| <i>Caloptilia invariabilis</i> (Braun, 1927) | p | AB | | U | |
| <i>Caloptilia negundella</i> (Chambers, 1876) | p | AB | SK | MB | I |
| <i>Caloptilia rhoifoliella</i> (Chambers, 1876) | p | P | SK | MB | |
| <i>Caloptilia stigmatella</i> (Fabricius, 1781) | p | AB | SK | MB | |
| <i>Caloptilia strictella</i> (Walker, 1864) | p | AB | SK | MB | |
| <i>Gracillaria syringella</i> (Fabricius, 1794) | p | AB | SK | P | I |
| <i>Micrurapteryx salicifoliella</i> (Chambers, 1872) | p | AB | SK | MB | |
| <i>Parectopa albicostella</i> Braun, 1925 | p | AB | SK | MB | |
| <i>Parectopa pennsylvaniella</i> (Engel, 1907) | p | AB | SK | MB | |
| <i>Parornix arbutifoliella</i> (Dietz, 1907) * | p | | | MB | |
| <i>Parornix conspicuella</i> (Dietz, 1907) | p | AB | SK | MB | |
| <i>Parornix vicinella</i> (Dietz, 1907) * | p | | | MB | |
| <i>Acrocercops astericola</i> (Frey & Boll, 1873) | p | AB | SK | | |
| <i>Acrocercops pnosmodiella</i> (Busck, 1902) | p | | | MB | |
| Subfamily Lithocolletinae | | | | | |
| <i>Phyllonorycter apparella</i> (Herrich-Schäffer, 1855) | p | AB | SK | MB | |
| <i>Phyllonorycter nipigon</i> (Freeman, 1970) | p | AB | SK | P | |
| <i>Phyllonorycter salicifoliella</i> (Chambers, 1875) | p | AB | SK | MB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| <i>Cameraria hamadryadella</i> (Clemens, 1859) | p | MB | |
| <i>Cameraria macrocarpa</i> Freeman, 1970 | p | MB | |
| Subfamily Phyllocnistinae | | | |
| <i>Phyllocnistis populiella</i> Chambers, 1875 | p | AB SK MB | |
| Superfamily Yponomeutoidea | | | |
| Family Yponomeutidae | | | |
| Subfamily Yponomeutinae | | | |
| Tribe Yponomeutini | | | |
| <i>Swammerdamia caesiella</i> (Hübner, 1796) | p | AB SK | I? |
| <i>Euhyponomeutoides gracilariella</i> (Busck, 1904) | p | AB SK | |
| Family Ypsolophidae | | | |
| Subfamily Ypsolophinae | | | |
| <i>Ypsolopa canariella</i> (Walsingham, 1881) | G | AB SK MB | |
| <i>Ypsolopa dentella</i> (Fabricius, 1775) | p | AB | I |
| <i>Ypsolopa dentiferella</i> (Walsingham, 1881) | G | AB SK MB | |
| <i>Ypsolopa dorsimaculella</i> (Kearfott, 1907) | p | AB SK MB | |
| <i>Ypsolopa falciferella</i> (Walsingham, 1881) | p | AB SK MB | |
| <i>Ypsolopa flavistrigella</i> (Busck, 1906) | p | AB | |
| <i>Ypsolopa senex</i> (Walsingham, 1889) | p | AB MB | |
| Family Plutellidae | | | |
| <i>Plutella vanella</i> Walsingham, 1881 | p | AB | |
| <i>Plutella xylostella</i> (Linnaeus, 1758) | G | M M M | I? |
| <i>Pseudoplutella porrectella</i> (Linnaeus, 1758) | p | AB | I? |
| <i>Rhigognostis interrupta</i> (Walsingham, 1881) | p | AB SK | |
| Family Glyphipterigidae | | | |
| Subfamily Glyphipteriginae | | | |
| <i>Glyphipterix urticae</i> Heppner, 1985 | p | AB SK MB | |
| <i>Glyphipterix haworthana</i> (Stephens, 1834) | p | MB | |
| <i>Glyphipterix montisella</i> (Chambers, 1875) | p | AB SK | |
| <i>Glyphipterix chambersi</i> Heppner, 1985 | p | MB | |
| Family Argyresthiidae | | | |
| <i>Argyresthia conjugella</i> Zeller, 1839 | p | AB SK P | I |
| <i>Argyresthia goedartella</i> (Linnaeus, 1758) | p | AB SK P | |
| <i>Argyresthia oreasella</i> Clemens, 1860 | p | AB SK MB | |
| <i>Argyresthia pygmaeella</i> (Hübner, [1813]) | p | AB SK MB | |
| Family Lyonetiidae | | | |
| Subfamily Lyonetiinae | | | |
| <i>Lyonetia prunifoliella</i> (Hübner, 1796) | p | AB SK MB | |
| Subfamily Cemiostominae | | | |
| <i>Paraleucoptera albella</i> (Chambers, 1871) | p | AB MB | |
| Family Heliodinidae | | | |
| <i>Neoheliodines nyctaginella</i> (Gibson, 1914) | p | MB | |
| Family Bedelliidae | | | |
| <i>Bedellia somnulentella</i> (Zeller, 1847) | p | AB MB | |
| Superfamily Gelechioidea | | | |
| Family Autostichidae | | | |
| Subfamily Symmocinae | | | |
| <i>Taygete sylvicolella</i> (Busck, 1903) | p | AB | |
| Subfamily Glyphidocerinae | | | |
| <i>Glyphidocera hurlberti</i> Adamski, 2000 | p | AB SK | |
| Family Blastobasidae | | | |
| Subfamily Holcocerinae | | | |
| <i>Holcocera chalcfrontella</i> Clemens, 1863 | p | MB | |
| <i>Holcocera immaculella</i> McDunnough, 1930 | p | AB SK MB | |
| <i>Calosima dianella</i> Dietz, 1910 * | p | MB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| Subfamily Blastobasinae | | | |
| <i>Blastobasis glandulella</i> (Riley, 1871) | p | SK MB | |
| <i>Hypatopa insulatella</i> (Dietz, 1910) | p | AB | |
| <i>Hypatopa titanella</i> McDunnough, 1961 | p | AB SK | |
| <i>Pigritia murfeldtella</i> (Chambers, 1874) | p | AB MB | |
| Family Oecophoridae | | | |
| Subfamily Oecophorinae | | | |
| Tribe Oecophorini | | | |
| <i>Decantha tistra</i> Hodges, 1974 | p | AB SK | |
| <i>Epicallima argenticinctella</i> (Clemens, 1860) | p | | MB |
| <i>Brymbia quadrimaculella</i> (Chambers, 1875) | p | AB P MB | |
| <i>Polix coloradella</i> (Walsingham, 1888) | p | AB SK MB | |
| <i>Hofmannophila pseudospretella</i> (Stainton, 1849) | p | U P MB | I |
| <i>Eido trimaculella</i> (Fitch, 1856) | p | AB SK MB | |
| Family Elachistidae | | | |
| Subfamily Elachistinae | | | |
| Tribe Elachistini | | | |
| <i>Perittia cygnodiella</i> (Busck, 1921) | p | AB SK | |
| <i>Elachista dasycara</i> Kaila, 1999 * | G | AB SK | |
| <i>Elachista subalbidella</i> Schläger, 1847 | p | AB MB | |
| <i>Elachista ossuaria</i> Kaila, 1997 | p | AB | |
| <i>Elachista aspila</i> Kaila, 1997 * | G | AB | |
| <i>Elachista symmorpha</i> Braun, 1948 * | G | AB | |
| <i>Elachista aphyodes</i> Kaila, 1997 | G | AB | |
| <i>Elachista adempta</i> Braun, 1948 | G | AB SK | |
| <i>Elachista achrantella</i> Kaila, 1997 | G | P SK | |
| <i>Elachista perniva</i> Kaila, 1997 | G | SK | |
| <i>Elachista virgatula</i> Kaila, 1997 | p | AB SK MB | |
| <i>Elachista cana</i> Braun, 1920 | G | AB | |
| <i>Elachista miriella</i> Kaila, 1999 | p | SK | |
| <i>Elachista neithanella</i> Kaila, 1999 | G | AB SK | |
| <i>Elachista albidella</i> Nylander, 1848 | p | | MB |
| Subfamily Depressariinae | | | |
| Tribe Depressariini | | | |
| <i>Agonopterix gelidella</i> (Busck, 1908) | p | AB SK MB | |
| <i>Agonopterix curvilineella</i> (Beutenmüller, 1889) | p | | MB |
| <i>Agonopterix clarkei</i> (Keifer, 1936) | p | | MB |
| <i>Agonopterix pulvipennella</i> (Clemens, 1864) | G | SK MB | |
| <i>Agonopterix fusciterminella</i> Clarke, 1941 | p | AB SK MB | |
| <i>Agonopterix chrautis</i> Hodges, 1974 | p | AB SK | |
| <i>Agonopterix rosaciliella</i> (Busck, 1904) | p | AB SK | |
| <i>Agonopterix canadensis</i> (Busck, 1902) | G | AB SK MB | |
| <i>Agonopterix arnicella</i> (Walsingham, 1881) | p | AB | |
| <i>Agonopterix argillacea</i> (Walsingham, 1881) | p | AB SK MB | |
| <i>Agonopterix posticella</i> (Walsingham, 1881) | G | AB | |
| <i>Depressariodes canella</i> (Busck, 1904) | p | AB SK MB | |
| <i>Depressariodes ciniflonella</i> (Lienig & Zeller, 1846) | p | AB SK MB | |
| <i>Depressariodes fulva</i> (Walsingham, 1882) | G | AB SK MB | |
| <i>Bibarrambra allenella</i> (Walsingham, 1882) | p | AB SK MB | |
| <i>Semioscopis packardella</i> (Clemens, 1863) | p | AB SK MB | |
| <i>Semioscopis merricella</i> Dyar, 1902 | p | AB P U | |
| <i>Semioscopis inornata</i> Walsingham, 1882 | p | AB SK MB | |
| <i>Semioscopis megamicrella</i> Dyar, 1902 | p | AB SK U | |
| <i>Semioscopis aurorella</i> Dyar, 1902 | p | AB P MB | |
| <i>Depressaria atrostrigella</i> Clarke, 1941 | p | AB SK MB | |
| <i>Depressaria artemisiae</i> Nickerl, 1864 | G | AB P MB | |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| <i>Depressaria cinereocostella</i> Clemens, 1864 | p | MB | |
| <i>Depressaria pastinacella</i> (Duponchel, 1838) | p | AB SK P | I |
| <i>Depressaria eleanorae</i> Clarke, 1941 | p | AB SK MB | |
| <i>Depressaria alienella</i> Busck, 1904 | p | AB SK MB | |
| <i>Depressaria whitmani</i> Clarke, 1941 | G | AB | |
| <i>Nites grotella</i> (Robinson, 1869) | p | AB SK MB | |
| Tribe Amphibatini | | | |
| <i>Psilocorsis quercicella</i> Clemens, 1860 | p | MB | |
| <i>Psilocorsis cryptolechiella</i> (Chambers, 1872) | p | MB | |
| <i>Psilocorsis reflexella</i> Clemens, 1860 | p | SK MB | |
| Subfamily Ethmiinae | | | |
| <i>Ethmia apicipunctella</i> (Chambers, 1875) | G | MB | |
| <i>Ethmia monticola</i> (Walsingham, 1880) | G | AB SK MB | |
| <i>Ethmia longimaculella</i> (Chambers, 1872) | G | MB | |
| <i>Ethmia albicostella</i> (Beutenmüller, 1889) | p | AB SK MB | |
| Subfamily Stenomatinae | | | |
| <i>Antaeotricha schlaegeri</i> (Zeller, 1854) | p | SK MB | |
| <i>Antaeotricha leucillana</i> Zeller, 1854 | p | SK MB | |
| <i>Gonioterma mistrella</i> (Busck, 1907) | G | MB | |
| Subfamily Agonoxeninae | | | |
| Tribe Blastodacnini | | | |
| <i>Blastodacna bicristatella</i> (Chambers, 1875) | p | AB | |
| <i>Blastodacna curvilineella</i> (Chambers, 1872) | p | AB SK P | |
| Family Batrachedridae | | | |
| <i>Batrachedra praeangusta</i> (Haworth, 1828) | p | AB SK MB | I? |
| Family Coleophoridae | | | |
| <i>Coleophora multipulvella</i> Chambers, 1878 | p | AB SK | |
| <i>Coleophora tiliaefoliella</i> Clemens, 1861 | p | MB | |
| <i>Coleophora elaeagnisella</i> Kearfott, 1908 | p | AB MB | |
| <i>Coleophora rosaefoliella</i> Clemens, 1864 | p | AB SK MB | |
| <i>Coleophora asterophagella</i> McDunnough, 1944 | p | AB MB | |
| <i>Coleophora pruniella</i> Clemens, 1861 | p | AB SK MB | |
| <i>Coleophora salicivorella</i> McDunnough, 1945 | G | AB SK | |
| <i>Coleophora cretaticostella</i> Clemens, 1860 | p | AB | |
| <i>Coleophora kearfottella</i> Barnes & Busck, 1920 | p | AB SK MB | |
| <i>Coleophora cornella</i> Walsingham, 1882 | p | AB MB | |
| <i>Coleophora rosacella</i> Clemens, 1864 | G | AB SK MB | |
| <i>Coleophora rosaevorella</i> McDunnough, 1946 | p | AB | |
| <i>Coleophora mcdunnoughiella</i> Oudejans, 1971 | p | AB SK | |
| <i>Coleophora sparsipuncta</i> Heinrich, 1929 | p | AB | |
| <i>Coleophora seminella</i> McDunnough, 1946 | p | AB SK | |
| <i>Coleophora detractella</i> McDunnough, 1961 | G | AB | |
| <i>Coleophora lineapulvella</i> Chambers, 1874 | p | MB | |
| <i>Coleophora quadruplex</i> McDunnough, 1940 | p | AB MB | |
| <i>Coleophora sparsipulvella</i> Chambers, 1875 | G | AB SK MB | |
| <i>Coleophora quadrilineella</i> Chambers, 1878 | p | MB | |
| <i>Coleophora cervinella</i> McDunnough, 1946 | p | AB | |
| <i>Coleophora benestrigatella</i> McDunnough, 1941 | p | SK MB | |
| <i>Coleophora brunneipennis</i> Braun, 1921 | G | AB SK MB | |
| <i>Coleophora bidentella</i> McDunnough, 1941 | p | AB MB | |
| <i>Coleophora glissandella</i> McDunnough, 1942 | G | AB SK | |
| <i>Coleophora glaucicolella</i> Wood, 1892 | p | AB SK MB | |
| <i>Coleophora bispinatella</i> McDunnough, 1954 | p | MB | |
| <i>Coleophora maritella</i> McDunnough, 1941 | p | AB SK MB | |
| <i>Coleophora mayrella</i> (Hübner, [1813]) | G | AB SK MB | I |
| <i>Coleophora trifolii</i> (Curtis, 1832) | p | AB SK MB | I |
| <i>Coleophora deauratella</i> Lienig & Zeller, 1846 | p | AB | I |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| Family Momphidae | | | |
| <i>Mompha albalpella</i> (Chambers, 1875) | p | AB SK MB | |
| <i>Mompha claudiella</i> Kearfott, 1907 | p | AB SK MB | |
| <i>Mompha definitella</i> (Zeller, 1873) | G | AB SK | |
| <i>Mompha eloisella</i> (Clemens, 1860) | G | AB SK MB | |
| <i>Mompha raschkiella</i> (Zeller, 1839) | p | AB | |
| <i>Mompha stellella</i> Busck, 1906 | G | AB SK MB | |
| <i>Mompha unifasciella</i> (Chambers, 1876) | p | AB SK MB | |
| <i>Mompha idaei</i> (Zeller, 1839) | p | AB SK MB | |
| Family Scythrididae | | | |
| <i>Scythris eboracensis</i> (Zeller, 1855) | p | AB SK MB | |
| <i>Scythris fuscicomella</i> (Clemens, 1860) | p | | MB |
| <i>Scythris noricella</i> Zeller, 1843 | p | AB SK MB | |
| <i>Scythris mixaula</i> Meyrick, 1916 | G | AB | |
| <i>Landryia impositella</i> (Zeller, 1855) | p | AB SK MB | |
| <i>Landryia matutella</i> (Clemens, 1860) | p | SK | |
| <i>Landryia scintillifera</i> (Braun, 1927) | G | AB SK MB | |
| Family Cosmopterigidae | | | |
| Subfamily Chrysopeliinae | | | |
| <i>Walshia miscecolorella</i> (Chambers, 1875) | G | AB SK MB | |
| <i>Sorhagenia baucidis</i> Hodges, 1969 | p | P SK | |
| Subfamily Cosmopteriginae | | | |
| <i>Cosmopterix molybdina</i> Hodges, 1962 | p | | MB I? |
| <i>Cosmopterix pulchrimella</i> Chambers, 1875 | p | SK MB | I? |
| <i>Cosmopterix gemmiferella</i> Clemens, 1860 | G | AB | |
| <i>Cosmopterix fernaldella</i> Walsingham, 1882 | p | AB SK | |
| <i>Eteobalea intermediella</i> (Riedl, 1966) | p | AB SK | I |
| <i>Eteobalea serratella</i> (Treitschke, 1833) | p | AB SK | I |
| <i>Limnaecia phragmitella</i> Stainton, 1851 | p | AB SK MB | |
| <i>Teladoma helianthi</i> Busck, 1932 * | G | MB | |
| Family Gelechiidae | | | |
| Subfamily Gelechiinae | | | |
| Tribe Anomologini | | | |
| <i>Metzneria lappella</i> (Linnaeus, 1758) | G | AB SK MB | I |
| <i>Isophrictis magnella</i> (Busck, 1903) * | G | AB | |
| <i>Isophrictis rudbeckiella</i> Bottimer, 1926 * | G | P SK | |
| <i>Isophrictis similiella</i> (Chambers, 1872) * | p | | MB |
| <i>Chrysoesthia drurella</i> (Fabricius, 1775) | p | AB SK | I |
| <i>Stereomita andropogonis</i> Braun, 1922 * | G | | MB |
| <i>Aristotelia devexella</i> Braun, 1925 | p | AB SK MB | |
| <i>Aristotelia fungivorella</i> (Clemens, 1864) | p | AB SK MB | |
| <i>Aristotelia roseosuffusella</i> (Clemens, 1860) | p | AB SK MB | |
| <i>Aristotelia rubidella</i> (Clemens, 1860) | p | AB MB | |
| <i>Deltophora sella</i> (Chambers, 1874) * | G | AB | |
| Tribe Litini | | | |
| <i>Agnippe prunifoliella</i> (Chambers, 1873) | p | AB SK | |
| <i>Coleotechnites atrupictella</i> (Dietz, 1900) | p | AB SK MB | |
| <i>Coleotechnites biopes</i> (Freeman, 1960) * | p | AB SK | |
| <i>Coleotechnites gibsonella</i> (Kearfott, 1907) | p | AB MB | |
| <i>Coleotechnites piceaella</i> (Kearfott, 1903) | p | AB SK MB | |
| <i>Coleotechnites quercivorella</i> (Chambers, 1872) | p | | MB |
| <i>Arogalea cristifasciella</i> (Chambers, 1878) | p | | MB |
| <i>Neotelphusa praefixa</i> (Braun, 1921) | p | AB SK MB | |
| <i>Xenolechia ontariensis</i> Keifer, 1933 | p | | MB |
| <i>Xenolechia velatella</i> (Busck, 1907) | p | AB SK MB | |
| <i>Carpatolechia belangerella</i> (Chambers, 1875) | p | AB SK U | |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| Tribe Gelechiini | | | |
| <i>Prolita variabilis</i> (Busck, 1903) | G | AB SK MB | |
| <i>Prolita barnesiella</i> (Busck, 1903) * | G | AB | |
| <i>Prolita rectistrigella</i> (Barnes & Busck, 1920) | G | AB | |
| <i>Rifseria fuscotaeniaella</i> (Chambers, 1878) | G | AB MB | |
| <i>Bryotropha plantariella</i> (Tengström, 1848) | G | AB SK MB | |
| <i>Bryotropha gemella</i> Rutten & Karsholt, 2004 | p | AB | |
| <i>Bryotropha similis</i> (Stainton, 1854) | p | AB SK MB | |
| <i>Bryotropha hodgesi</i> Rutten & Karsholt, 2004 | G | AB U MB | |
| <i>Bryotropha altitudophila</i> Rutten & Karsholt, 2004 | G | AB SK | |
| <i>Gelechia albisparsella</i> (Chambers, 1872) | G | AB | |
| <i>Gelechia lynceella</i> Zeller, 1873 | p | AB SK MB | |
| <i>Chionodes formosella</i> (Murtfeldt, 1881) | p | | MB |
| <i>Chionodes iridescens</i> Clarke, 1947 | p | P SK MB | |
| <i>Chionodes abitus</i> Hodges, 1999 | G | P SK | |
| <i>Chionodes imber</i> Hodges, 1999 | p | | MB |
| <i>Chionodes abella</i> (Busck, 1903) | p | AB | |
| <i>Chionodes kincaidella</i> (Busck, 1907) * | G | AB U | |
| <i>Chionodes pingucula</i> (Meyrick, 1929) | G | SK | |
| <i>Chionodes sistrella</i> (Busck, 1903) * | G | AB | |
| <i>Chionodes landryi</i> Hodges, 1999 * | G | AB SK | |
| <i>Chionodes fructuaria</i> (Braun, 1925) * | G | AB | |
| <i>Chionodes thoraceochrella</i> (Chambers, 1872) | p | SK MB | |
| <i>Chionodes obscurusella</i> (Chambers, 1872) | p | AB SK MB | |
| <i>Chionodes mediofuscella</i> (Clemens, 1863) | p | AB SK MB | |
| <i>Chionodes terminimaculella</i> (Kearfott, 1908) | p | AB SK MB | |
| <i>Chionodes baro</i> Hodges, 1999 | p | | MB |
| <i>Chionodes adamas</i> Hodges, 1999 | p | | MB |
| <i>Chionodes innox</i> Hodges, 1999 | G | AB U MB | |
| <i>Chionodes fondella</i> (Busck, 1906) | p | AB SK MB | |
| <i>Chionodes petalumensis</i> Clarke, 1947 | p | SK | |
| <i>Chionodes lugubrella</i> (Fabricius, 1794) | p | AB SK MB | |
| <i>Chionodes grandis</i> Clarke, 1947 | G | AB SK MB | |
| <i>Chionodes praeclarella</i> (Herrich-Schäffer, 1854) | G | AB SK MB | |
| <i>Chionodes psiloptera</i> (Barnes & Busck, 1920) | p | AB SK MB | |
| <i>Chionodes agriodes</i> (Meyrick, 1927) | G | AB | |
| <i>Chionodes whitmanella</i> Clarke, 1942 | G | AB MB | |
| <i>Chionodes praeco</i> Hodges, 1999 | G | AB MB | |
| <i>Chionodes occlusa</i> (Braun, 1925) | G | AB SK | |
| <i>Chionodes theurgis</i> Hodges, 1999 | p | | MB |
| <i>Chionodes viduella</i> (Fabricius, 1794) | p | AB SK MB | |
| <i>Chionodes metallica</i> (Braun, 1921) | G | AB | |
| <i>Chionodes praecia</i> Hodges, 1999 | G | AB | |
| <i>Chionodes praetor</i> Hodges, 1999 | p | | MB |
| <i>Chionodes flavicorporella</i> (Walsingham, 1882) | G | P MB | |
| <i>Filatima abactella</i> (Clarke, 1932) | p | AB SK MB | |
| <i>Filatima demissae</i> (Keifer, 1931) | G | AB | |
| <i>Filatima normifera</i> (Meyrick, 1927) | G | AB | |
| <i>Filatima striatella</i> (Busck, 1903) | p | AB MB | |
| <i>Filatima vaccinii</i> Clarke, 1947 | p | AB MB | |
| Tribe Gnorimoschemini | | | |
| <i>Gnorimoschema alaskense</i> Povolný, 1967 | p | AB SK MB | |
| <i>Gnorimoschema albanguatum</i> Braun, 1926 | p | AB MB | |
| <i>Gnorimoschema bacchariselloides</i> Povolný & Powell, 2001 | p | AB | |
| <i>Gnorimoschema brachiatum</i> Povolný, 1998 | G | P SK | |
| <i>Gnorimoschema clavatum</i> Povolný, 1998 * | G | AB SK | |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| <i>Gnorimoschema compsomorpha</i> Meryrick, 1929 | p | AB SK | |
| <i>Gnorimoschema dudiella</i> Busck, 1903 | p | AB | |
| <i>Gnorimoschema gallaeasterella</i> (Kellicott, 1878) | p | AB SK MB | |
| <i>Gnorimoschema gallaesolidaginis</i> (Riley, 1869) | p | AB SK MB | |
| <i>Gnorimoschema gallaespectiosum</i> Miller, 2000 | p | AB | |
| <i>Gnorimoschema gibsoniella</i> Busck, 1915 | p | AB MB | |
| <i>Gnorimoschema jocelynae</i> Miller, 2000 | G | AB | |
| <i>Gnorimoschema nanulum</i> Povolný, 1998 | p | AB | |
| <i>Gnorimoschema obscurior</i> Povolný, 1998 | G | AB SK | |
| <i>Gnorimoschema petiolatum</i> Povolný, 1998 * | G | P SK | |
| <i>Gnorimoschema reichli</i> Povolný, 1998 | p | AB | |
| <i>Gnorimoschema rotundatum</i> Povolný, 1998 | p | AB | |
| <i>Gnorimoschema salinaris</i> Busck, 1911 | p | AB | |
| <i>Gnorimoschema segregatum</i> Povolný, 1998 * | G | P SK | |
| <i>Gnorimoschema septentrionella</i> Fyles, 1911 | p | AB SK | |
| <i>Gnorimoschema signatum</i> Povolný, 2003 | p | AB | |
| <i>Gnorimoschema slabaughii</i> Miller, 2000 | G | SK | |
| <i>Gnorimoschema spinosum</i> Povolný, 1998 * | G | P SK | |
| <i>Gnorimoschema subterraneum</i> Busck, 1911 | p | AB | |
| <i>Gnorimoschema tunicatum</i> Povolný, 1998 | G | AB SK | |
| <i>Gnorimoschema vastificum</i> Braun, 1929 | G | AB SK MB | |
| <i>Scrobipalpulodes insularis</i> (Povolný, 2001) | p | AB | |
| <i>Scrobipalpa lutescella</i> (Clarke, 1934) | p | AB MB | |
| <i>Scrobipalpa psilella</i> (Herrich-Schäffer, 1853) | p | AB SK MB | |
| <i>Scrobipalpa atriplicella</i> (von Röslerstamm, 1839) | p | AB MB | I |
| <i>Scrobipalpa instabilella</i> (Douglas, 1846) | G | P SK | |
| <i>Scrobipalpa macromaculata</i> (Braun, 1925) | G | AB SK MB | |
| <i>Scrobipalpa obsoletella</i> (von Röslerstamm, 1841) | p | MB | I |
| <i>Agonochaetia conspersa</i> (Braun, 1921) | g | AB | |
| <i>Caryocolum cassella</i> (Walker, 1864) | p | AB SK MB | |
| <i>Caryocolum pullatella</i> (Tengström, 1848) | p | AB MB | |
| Tribe Chelariini | | | |
| <i>Anarsia lineatella</i> Zeller, 1839 | p | AB | I |
| Tribe Anacampsini | | | |
| <i>Battaristis concinnusella</i> (Chambers, 1875) | p | AB | |
| <i>Anacampsis fragariella</i> Busck, 1904 | p | AB P MB | |
| <i>Anacampsis innocuella</i> (Zeller, 1873) | p | AB SK MB | |
| <i>Anacampsis niveopulvella</i> (Chambers, 1875) | p | AB SK MB | |
| <i>Anacampsis paltodoriella</i> Busck, 1903 * | G | AB | |
| <i>Anacampsis tristrigella</i> (Walsingham, 1882) | p | MB | |
| Subfamily Pexicopiinae | | | |
| <i>Sitotroga cerealella</i> (Olivier, 1789) | G | AB | I? |
| Subfamily Dichomeridinae | | | |
| <i>Helcystogramma fernaldella</i> (Busck, 1903) | p | AB SK MB | |
| <i>Helcystogramma casca</i> (Braun, 1925) | G | AB SK | |
| <i>Helcystogramma melanocarpa</i> (Meryrick, 1929) | p | MB | |
| <i>Dichomeris ligulella</i> Hübner, 1818 | p | SK MB | I |
| <i>Dichomeris flavocostella</i> (Clemens, 1860) | p | SK MB | |
| <i>Dichomeris ventrella</i> (Fitch, 1854) | p | MB | |
| <i>Dichomeris setosella</i> (Clemens, 1860) | p | AB MB | |
| <i>Dichomeris vindex</i> Hodges, 1986 * | G | MB | |
| <i>Dichomeris bilobella</i> (Zeller, 1873) | p | AB SK | |
| <i>Dichomeris purpureofusca</i> (Walsingham, 1882) | p | AB SK MB | |
| <i>Dichomeris serrativittella</i> (Zeller, 1873) | G | MB | |
| <i>Dichomeris xanthoa</i> Hodges, 1986 | p | MB | |
| <i>Dichomeris simplicella</i> (Busck, 1904) | G | AB SK | |
| <i>Dichomeris levisella</i> (Fyles, 1904) | p | AB SK P | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| <i>Dichomeris leuconotella</i> (Busck, 1904) | p | AB P MB | |
| <i>Dichomeris costarifoella</i> (Chambers, 1874) | p | AB MB | |
| Superfamily Alucitoidea | | | |
| Family Alucitidae | | | |
| <i>Alucita montana</i> Barnes & Lindsey, 1921 | p | AB SK MB | |
| <i>Alucita adriendenisi</i> Landry & Landry, 2004 | p | AB SK | |
| <i>Alucita lalannei</i> Landry & Landry, 2004 | p | AB MB | |
| Superfamily Pterophoroidea | | | |
| Family Pterophoridae | | | |
| Subfamily Pterophorinae | | | |
| Tribe Platyptiliini | | | |
| <i>Platyptilia carduidactylus</i> (Riley, 1869) | G | AB SK MB | |
| <i>Platyptilia comstocki</i> Lange, 1939 | G | AB MB | |
| <i>Gillmeria pallidactyla</i> (Haworth, 1811) | p | AB SK MB | |
| <i>Stenoptilia coloradensis</i> Fernald, 1898 | G | AB SK MB | |
| <i>Paraplatyptilia edwardsii</i> (Fish, 1881) | G | AB MB | |
| <i>Paraplatyptilia albiciliatus</i> (Walsingham, 1880) | p | AB SK MB | |
| <i>Paraplatyptilia modesta</i> (Walsingham, 1880) | G | AB SK MB | |
| <i>Paraplatyptilia bowmani</i> (McDunnough, 1923) | p | AB | |
| <i>Amblyptilia pica</i> (Walsingham, 1880) | G | AB SK MB | |
| Tribe Oxyptilini | | | |
| <i>Geina tenuidactylus</i> (Fitch, 1854) | G | AB SK MB | |
| <i>Capperia evansi</i> (McDunnough, 1923) | G | AB SK MB | |
| <i>Oxyptilus delawaricus</i> (Zeller, 1873) | p | AB MB | |
| <i>Dejongia lobidactylus</i> (Fitch, 1854) | p | AB SK MB | |
| Tribe Oidaematophorini | | | |
| <i>Hellinsia homodactylus</i> (Walker, 1864) | p | AB SK MB | |
| <i>Hellinsia elliottii</i> (Fernald, 1893) | p | AB MB | |
| <i>Hellinsia pectodactylus</i> (Staudinger, 1859) | G | AB SK MB | |
| <i>Hellinsia lacteodactylus</i> (Chambers, 1873) | p | AB SK MB | |
| <i>Hellinsia subochraceus</i> (Walsingham, 1880) | G | AB | |
| <i>Hellinsia sulphureodactylus</i> (Packard, 1873) | G | AB SK MB | |
| <i>Hellinsia arion</i> (Barnes & Lindsey, 1921) | p | AB | |
| <i>Oidaematophorus mathewianus</i> (Zeller, 1874) | p | AB SK MB | |
| <i>Oidaematophorus phaceliae</i> McDunnough, 1938 | G | AB SK MB | |
| <i>Oidaematophorus griseascens</i> Walsingham, 1880 | G | AB U | |
| <i>Oidaematophorus lindseyi</i> McDunnough, 1923 | p | AB SK MB | |
| <i>Oidaematophorus brucei</i> (Fernald, 1898) | G | AB SK MB | |
| <i>Emmeline monodactyla</i> (Linnaeus, 1758) | p | AB SK MB | |
| <i>Adaina montanus</i> (Walsingham, 1880) | p | AB MB | |
| Superfamily Carposinoidea | | | |
| Family Carposinidae | | | |
| <i>Carposina sasaki</i> Matsumura, 1900 | p | S SK MB | |
| <i>Bondia comonana</i> (Kearfott, 1907) | p | AB SK MB | |
| <i>Bondia crescentella</i> (Walsingham, 1882) | p | AB SK | |
| Superfamily Schreckensteinoidea | | | |
| Family Schreckensteiniidae | | | |
| <i>Schreckensteinia festaliella</i> Hübner, [1819] | p | AB P MB | |
| Superfamily Epermenioidea | | | |
| Family Epermeniidae | | | |
| <i>Epermenia imperialella</i> Busck, 1906 | p | | MB |
| <i>Ochromolopis ramapoella</i> (Kearfott, 1903) | G | AB SK MB | |
| Superfamily Choreutoidea | | | |
| Family Choreutidae | | | |
| Subfamily Choreutinae | | | |
| <i>Prochoreutis pernix</i> (Braun, 1921) | p | AB SK | |
| <i>Choreutis myllerana</i> Fabricius, 1794 | p | AB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| Superfamily Tortricoidea | | | |
| Family Tortricidae | | | |
| Subfamily Tortricinae | | | |
| Tribe Tortricini | | | |
| <i>Acleris albicomana</i> (Clemens, 1865) | p | AB SK MB | |
| <i>Acleris curvalana</i> (Kearfott, 1907) | p | AB SK MB | |
| <i>Acleris nivisellana</i> (Walsingham, 1879) | p | AB SK MB | |
| <i>Acleris cervinana</i> (Fernald, 1882) | p | AB SK MB | |
| <i>Acleris fuscana</i> (Barnes & Busck, 1920) | p | AB SK MB | |
| <i>Acleris negundana</i> (Busck, 1940) | p | | MB |
| <i>Acleris fragariana</i> Kearfott, 1904 | p | AB SK MB | |
| <i>Acleris robinsoniana</i> (Forbes, 1923) | p | AB SK MB | |
| <i>Acleris britannia</i> Kearfott, 1904 | p | AB SK | |
| <i>Acleris logiana</i> (Clerck, 1759) | p | AB SK MB | |
| <i>Acleris variana</i> (Fernald, 1886) | p | AB SK MB | |
| <i>Acleris maccana</i> (Treitschke, 1835) | p | AB SK MB | |
| <i>Acleris effractana</i> (Hübner, 1822) | p | AB SK MB | |
| Tribe Cnephasiini | | | |
| <i>Eana argentana</i> (Clerck, 1759) | p | AB SK MB | |
| <i>Decodes horariana</i> (Walsingham, 1879) | p | AB SK U | |
| Tribe Cochylini | | | |
| <i>Phtheochroa aureoalbida</i> (Walsingham, 1895) | G | AB SK | |
| <i>Phtheochroa cartwrightana</i> (Kearfott, 1907) | G | AB SK MB | |
| <i>Phtheochroa fulviplicana</i> (Walsingham, 1879) | p | AB SK | |
| <i>Phtheochroa vitellinana</i> (Zeller, 1875) | p | AB SK MB | |
| <i>Phtheochroa waracana</i> (Kearfott, 1907) | G | AB SK MB | |
| <i>Platphalonidia dangi</i> Razowski, 1997 | G | AB | |
| <i>Platphalonidia felix</i> (Walsingham, 1895) | p | AB SK | |
| <i>Platphalonidia lavana</i> (Busck, 1907) | p | AB | MB |
| <i>Aethes biscana</i> (Kearfott, 1907) | p | AB | MB |
| <i>Aethes promptana</i> (Robinson, 1869) | p | AB SK | |
| <i>Aethes rutilana</i> (Hübner, 1818) | G | AB SK MB | |
| <i>Aethes smeathmanniana</i> (Fabricius, 1781) | p | AB SK MB | |
| <i>Aethes spartinana</i> (Barnes & McDunnough, 1916) | p | | MB |
| <i>Cochylis arthuri</i> Dang, 1984 | G | AB SK MB | |
| <i>Cochylis buccera</i> Razowski, 1997 | p | | MB |
| <i>Cochylis hospes</i> (Walsingham, 1884) | G | AB SK MB | |
| <i>Cochylis nana</i> (Haworth, 1811) | p | AB SK P | |
| <i>Eulia ministrana</i> (Linnaeus, 1758) | p | AB SK MB | |
| <i>Anopina ednana</i> (Kearfott, 1907) | G | AB SK | |
| <i>Apotomops wellingtoniana</i> (Kearfott, 1907) | p | AB SK | |
| Tribe Archipini | | | |
| <i>Pandemis limitata</i> (Robinson, 1869) | p | AB SK MB | |
| <i>Pandemis canadana</i> Kearfott, 1905 | p | AB SK MB | |
| <i>Argyrotaenia velutinana</i> (Walker, 1863) | p | AB SK MB | |
| <i>Argyrotaenia repertana</i> Freeman, 1944 | p | AB SK MB | |
| <i>Argyrotaenia tabulana</i> Freeman, 1944 | p | AB SK MB | |
| <i>Argyrotaenia quadrifasciana</i> (Fernald, 1882) | p | AB SK MB | |
| <i>Argyrotaenia quercifoliata</i> (Fitch, 1858) | p | | SK MB |
| <i>Argyrotaenia mariana</i> (Fernald, 1882) | p | AB SK MB | |
| <i>Choristoneura fractivittana</i> (Clemens, 1865) | p | AB | U |
| <i>Choristoneura zapulata</i> (Robinson, 1869) | G | AB SK MB | |
| <i>Choristoneura rosaceana</i> (Harris, 1841) | G | AB SK MB | |
| <i>Choristoneura conflictana</i> (Walker, 1863) | p | AB SK MB | |
| <i>Choristoneura fumiferana</i> (Clemens, 1865) | p | AB SK MB | |
| <i>Archips packardiana</i> (Fernald, 1886) | p | AB SK MB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| <i>Archips striana</i> Fernald, 1905 | p | AB SK MB | |
| <i>Archips argyrosbila</i> (Walker, 1863) | p | AB SK MB | |
| <i>Archips mortuana</i> Kearfott, 1907 | p | AB SK MB | |
| <i>Archips myricana</i> (McDunnough, 1923) | p | U MB | |
| <i>Archips semifera</i> (Walker, 1863) | p | MB | |
| <i>Archips negundana</i> (Dyar, 1902) | G | AB SK MB | |
| <i>Archips cerasivorana</i> (Fitch, 1856) | G | AB SK MB | |
| <i>Archips fervidana</i> (Clemens, 1860) | p | SK MB | |
| <i>Archips purpurana</i> (Clemens, 1865) | G | AB SK MB | |
| <i>Syndemis afflictana</i> (Walker, 1863) | p | AB SK MB | |
| <i>Aphelia alleniana</i> (Fernald, 1882) | G | AB SK MB | |
| <i>Clepsis persicana</i> (Fitch, 1856) | p | AB SK MB | |
| <i>Clepsis clemensiana</i> (Fernald, 1879) | G | AB SK MB | |
| <i>Clepsis melaleucana</i> (Walker, 1863) | p | AB SK MB | |
| <i>Clepsis flavidana</i> (McDunnough, 1923) | p | MB | |
| <i>Clepsis peritana</i> (Clemens, 1860) | p | AB SK MB | |
| <i>Clepsis penetralis</i> Razowski, 1979 | G | AB | |
| <i>Clepsis virescana</i> (Clemens, 1865) | p | AB SK MB | |
| <i>Adoxophyes negundana</i> (McDunnough, 1923) | p | AB SK MB | |
| <i>Xenotemma pallorana</i> (Robinson, 1869) | G | AB SK MB | |
| Tribe Sparganothini | | | |
| <i>Sparganothis flavibasana</i> (Fernald, 1882) | p | AB SK MB | |
| <i>Sparganothis sulfureana</i> (Clemens, 1860) | p | AB SK MB | |
| <i>Sparganothis unifasciana</i> (Clemens, 1864) | G | AB SK MB | |
| <i>Sparganothis violaceana</i> (Robinson, 1869) | p | AB SK MB | |
| <i>Sparganothis xanthoides</i> (Walker, 1863) | p | AB SK MB | |
| <i>Sparganothis vocaridorsana</i> Kearfott, 1905 | G | AB SK MB | |
| <i>Cenopsis peittitana</i> (Robinson, 1869) | p | SK MB | |
| <i>Cenopsis reticulatana</i> (Clemens, 1860) | p | AB SK MB | |
| <i>Cenopsis directana</i> (Walker, 1863) | p | AB SK MB | |
| <i>Platynota idaeusalis</i> (Walker, 1859) | p | AB SK MB | |
| Subfamily Olethreutinae | | | |
| Tribe Olethreutini | | | |
| <i>Endothenia montanana</i> (Kearfott, 1907) | p | AB SK MB | |
| <i>Endothenia heinrichi</i> McDunnough, 1929 | p | AB SK | |
| <i>Endothenia hebesana</i> (Walker, 1863) | p | AB SK MB | |
| <i>Endothenia infuscata</i> Heinrich, 1923 | p | U MB | |
| <i>Endothenia nubilana</i> (Clemens, 1865) | G | AB SK MB | |
| <i>Taniva albolineana</i> (Kearfott, 1907) | p | AB SK MB | |
| <i>Bactra furfurana</i> (Haworth, 1811) | G | AB SK MB | |
| <i>Bactra verutana</i> Zeller, 1875 | G | AB SK | |
| <i>Episimus argutanus</i> (Clemens, 1860) | p | MB | |
| <i>Paralobesia aemulana</i> (Heinrich, 1926) | p | AB | |
| <i>Paralobesia blandula</i> (Heinrich, 1926) | p | AB MB | |
| <i>Lobesiodes euphorbiana</i> (Freyer, 1842) | G | AB SK MB | I |
| <i>Ahmosia galbinea</i> Heinrich, 1926 | G | AB SK | |
| <i>Apotomis removana</i> (Kearfott, 1907) | p | AB SK MB | |
| <i>Apotomis capreana</i> (Hübner, [1817]) | p | AB SK MB | |
| <i>Apotomis funerea</i> (Meyrick, 1920) | p | AB SK MB | |
| <i>Apotomis deceptana</i> (Kearfott, 1905) | p | AB SK MB | |
| <i>Pseudosciaphila duplex</i> (Walsingham, 1905) | p | AB SK MB | |
| <i>Orthotaenia undulana</i> ([Denis & Schiffermüller], 1775) | p | AB SK MB | |
| <i>Olethreutes rusticianum</i> (McDunnough, 1922) | p | AB P MB | |
| <i>Olethreutes atrodentana</i> (Fernald, 1882) | p | MB | |
| <i>Olethreutes punctanum</i> (Walsingham, 1903) | p | AB SK | |
| <i>Olethreutes inornatana</i> (Clemens, 1860) | G | AB SK MB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| <i>Olethreutes quadrifidum</i> (Zeller, 1875) | p | AB SK MB | |
| <i>Olethreutes tilianum</i> (Heinrich, 1923) | p | | MB |
| <i>Olethreutes valdanum</i> (McDunnough, 1922) | p | | MB |
| <i>Olethreutes permundana</i> (Clemens, 1860) | p | | MB |
| <i>Olethreutes appendiceum</i> (Zeller, 1875) | p | AB SK MB | |
| <i>Olethreutes galaxana</i> Kearfott, 1907 | G | AB SK MB | |
| <i>Olethreutes astrologana</i> (Zeller, 1875) | G | AB SK MB | |
| <i>Olethreutes coruscana</i> (Clemens, 1860) | p | U SK MB | |
| <i>Olethreutes metallicana</i> (Hübner, 1796) | p | AB SK MB | |
| <i>Olethreutes nordeggana</i> (McDunnough, 1922) | p | AB P MB | |
| <i>Olethreutes deprecatorius</i> Heinrich, 1926 | p | AB U | |
| <i>Olethreutes carolana</i> (McDunnough, 1922) | p | AB SK MB | |
| <i>Olethreutes glaciana</i> (Möschler, 1860) | G | AB SK MB | |
| <i>Olethreutes bipartitana</i> (Clemens, 1860) | G | AB SK MB | |
| <i>Olethreutes trinitana</i> (McDunnough, 1931) | p | AB SK MB | |
| <i>Olethreutes schulziana</i> (Fabricius, 1777) | p | AB SK | |
| <i>Olethreutes turfosana</i> (Herrich-Schäffer, 1851) | p | AB SK MB | |
| <i>Olethreutes costimaculana</i> (Fernald, 1882) | G | AB MB | |
| <i>Celypha cespitana</i> (Hübner, [1817]) | p | AB SK MB | |
| <i>Hedya separatana</i> (Kearfott, 1907) | p | AB SK MB | |
| <i>Hedya ochroleucana</i> (Frölich, 1828) | G | AB SK MB | |
| <i>Hedya nubiferana</i> (Haworth, 1811) | G | AB | I |
| <i>Hedya chionosema</i> (Zeller, 1875) | p | | MB |
| <i>Hedya cyanana</i> (Murtfeldt, 1880) | p | SK MB | |
| <i>Evora hemidesma</i> (Zeller, 1875) | p | P SK MB | |
| Tribe Enarmoniini | | | |
| <i>Ancylis nubeculana</i> (Clemens, 1860) | p | AB SK MB | |
| <i>Ancylis subaequana</i> (Zeller, 1875) | p | AB SK MB | |
| <i>Ancylis discigerana</i> (Walker, 1863) | p | U MB | |
| <i>Ancylis metamelana</i> (Walker, 1863) | p | AB SK MB | |
| <i>Ancylis tenebrica</i> (Heinrich, 1929) | p | AB | |
| <i>Ancylis laciniana</i> (Zeller, 1875) | p | AB SK MB | |
| <i>Ancylis burgessiana</i> (Zeller, 1875) | p | AB MB | |
| <i>Ancylis mira</i> Heinrich, 1929 | p | AB MB | |
| <i>Ancylis comptana</i> (Frölich, 1828) | G | AB SK MB | I? |
| <i>Ancylis apicana</i> (Walker, 1866) | p | AB SK MB | |
| <i>Ancylis diminutana</i> (Haworth, 1811) | p | AB SK MB | |
| <i>Ancylis goodelliana</i> (Fernald, 1882) | p | AB SK MB | |
| <i>Ancylis unguicella</i> (Linnaeus, 1758) | p | AB SK MB | |
| <i>Ancylis mediofasciana</i> (Clemens, 1864) | p | AB SK MB | |
| <i>Ancylis tineana</i> (Hübner, [1799]) | p | AB SK MB | |
| <i>Ancylis albacostana</i> Kearfott, 1905 | G | U MB | |
| <i>Hystrichophora paradisiae</i> Heinrich, 1923 | G | AB SK | |
| <i>Hystrichophora stygiana</i> (Dyar, 1903) | G | AB SK | |
| <i>Hystrichophora asphodelana</i> (Kearfott, 1907) | p | AB P MB | |
| <i>Hystrichophora taleana</i> (Grote, 1878) | G | | MB |
| <i>Hystrichophora ochreicostana</i> (Walsingham, 1884) | G | AB SK MB | |
| <i>Hystrichophora vestaliana</i> (Zeller, 1875) | G | AB SK MB | |
| Tribe Eucosmini | | | |
| <i>Rhyacionia buoltiana</i> ([Denis & Schiffermüller], 1775) | p | AB P MB | I |
| <i>Retinia albicapitana</i> (Busck, 1914) | p | AB SK MB | |
| <i>Retinia burkeana</i> (Kearfott, 1907) | p | AB SK MB | |
| <i>Eucosma albertana</i> (McDunnough, 1925) * | G | AB | |
| <i>Eucosma awemeana</i> (Kearfott, 1907) | p | AB SK MB | |
| <i>Eucosma indeterminana</i> (McDunnough, 1925) | p | AB MB | |
| <i>Eucosma umbrastriana</i> (Kearfott, 1907) | p | AB SK MB | |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| <i>Eucosma citricolorana</i> (McDunnough, 1942) | p | AB SK | |
| <i>Eucosma amphorana</i> (Walsingham, 1879) | G | AB | |
| <i>Eucosma verna</i> (Miller, 1971) | p | AB MB | |
| <i>Eucosma ochroterminana</i> (Kearfott, 1907) | p | AB SK MB | |
| <i>Eucosma marmontana</i> (Kearfott, 1907) | p | AB SK MB | |
| <i>Eucosma parmatana</i> (Clemens, 1860) | p | AB SK MB | |
| <i>Eucosma convergana</i> (McDunnough, 1925) | G | AB SK MB | |
| <i>Eucosma influana</i> (Heinrich, 1923) | G | AB SK MB | |
| <i>Eucosma lapidana</i> (Walsingham, 1879) | G | AB | |
| <i>Eucosma ornata</i> (Heinrich, 1924) | G | AB SK MB | |
| <i>Eucosma rupestrana</i> (McDunnough, 1925) | G | AB | |
| <i>Eucosma tarandana</i> (Möschler, 1874) | G | AB SK MB | |
| <i>Eucosma nepotiana</i> (Heinrich, 1923) | G | AB MB | |
| <i>Eucosma spectana</i> (McDunnough, 1938) | p | AB | |
| <i>Eucosma misturana</i> (Heinrich, 1923) | G | AB SK MB | |
| <i>Eucosma fertoriana</i> (Heinrich, 1923) | p | AB U | |
| <i>Eucosma crassana</i> (McDunnough, 1938) | G | AB MB | |
| <i>Eucosma indagatricana</i> (Heinrich, 1923) | G | AB U MB | |
| <i>Eucosma labiata</i> (Wright, 2010) | G | AB | |
| <i>Eucosma argenticostana</i> (Walsingham, 1879) | G | | MB |
| <i>Eucosma dorsiatomana</i> (Kearfott, 1905) | G | AB SK MB | |
| <i>Eucosma striatana</i> (Clemens, 1860) | p | AB SK MB | |
| <i>Eucosma modicellana</i> (Heinrich, 1923) | G | AB SK MB | |
| <i>Eucosma pallidicostana</i> (Walsingham, 1879) | G | AB SK MB | |
| <i>Eucosma artemisiana</i> (Walsingham, 1879) | p | AB | |
| <i>Eucosma infimbriana</i> (Dyar, 1904) | p | AB MB | |
| <i>Eucosma octopunctana</i> (Walsingham, 1895) | p | AB SK MB | |
| <i>Eucosma montanana</i> (Walsingham, 1884) | G | AB SK MB | |
| <i>Eucosma effectalis</i> (Hulst, 1886) | p | AB SK | |
| <i>Eucosma glomerana</i> (Walsingham, 1879) | G | SK MB | |
| <i>Eucosma bilineana</i> Kearfott, 1907 | G | AB SK MB | |
| <i>Eucosma landana</i> Kearfott, 1907 | G | AB SK MB | |
| <i>Eucosma simplex</i> McDunnough, 1925 | G | AB MB | |
| <i>Eucosma sombreana</i> Kearfott, 1905 | G | | MB |
| " <i>Eucosma</i> " <i>delphinoides</i> (Heinrich, 1923) * | G | AB | |
| <i>Pelochrista fandana</i> (Kearfott, 1907) | G | AB SK MB | |
| <i>Pelochrista ridingsana</i> (Robinson, 1869) | G | AB SK MB | |
| <i>Pelochrista fernaldana</i> (Grote, 1880) | G | AB SK MB | |
| <i>Pelochrista caniceps</i> (Walsingham, 1884) | G | AB | |
| <i>Pelochrista ragonoti</i> (Walsingham, 1895) | G | AB MB | |
| <i>Pelochrista serpentana</i> (Walsingham, 1895) | G | AB SK | |
| <i>Pelochrista ophionana</i> (McDunnough, 1925) | G | AB SK | |
| <i>Pelochrista heathiana</i> (Kearfott, 1907) | G | | MB |
| <i>Pelochrista morrisoni</i> (Walsingham, 1884) | G | AB SK MB | |
| <i>Pelochrista lathamii</i> (Forbes, 1937) | G | AB SK | |
| <i>Pelochrista agricolana</i> (Walsingham, 1879) | G | AB SK MB | |
| <i>Pelochrista smithiana</i> (Walsingham, 1895) | G | AB SK MB | |
| <i>Pelochrista comatulana</i> (Zeller, 1875) | G | | MB |
| <i>Pelochrista vagana</i> (McDunnough, 1925) | p | AB SK MB | |
| <i>Pelochrista galenapunctana</i> (Kearfott, 1905) * | G | AB | |
| <i>Pelochrista serapicana</i> (Heinrich, 1923) | G | AB | |
| <i>Pelochrista luridana</i> (Walsingham, 1879) | G | AB | |
| <i>Pelochrista subflavana</i> (Walsingham, 1879) | G | AB | |
| <i>Pelochrista invicta</i> (Walsingham, 1895) | G | AB SK | |
| <i>Pelochrista heinrichi</i> (McDunnough, 1925) | G | AB SK MB | |
| <i>Pelochrista nandana</i> (Kearfott, 1907) | p | AB SK MB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| <i>Pelochrista dorsisignatana</i> (Clemens, 1860) | p | AB SK MB | |
| <i>Pelochrista similiana</i> (Clemens, 1860) | p | AB P MB | |
| <i>Pelochrista juncticiliana</i> (Walsingham, 1879) | p | AB MB | |
| <i>Pelochrista nuntia</i> (Heinrich, 1929) | G | AB SK MB | |
| <i>Pelochrista lafontainei</i> (Wright, 2012) * | G | AB | |
| <i>Pelochrista seamansi</i> (Wright, 2011) | G | AB P MB | |
| <i>Pelochrista cataclystiana</i> (Walker, 1863) | G | AB MB | |
| <i>Pelochrista conspiciendana</i> (Heinrich, 1923) | G | AB | |
| <i>Pelochrista corosana</i> (Walsingham, 1884) | G | U U MB | |
| <i>Pelochrista argenteana</i> (Walsingham, 1895) | G | AB SK | |
| <i>Pelochrista gelattana</i> Wright, 2007 * | G | AB | |
| <i>Pelochrista scintillana</i> (Clemens, 1865) | G | AB SK MB | |
| <i>Pelochrista mediostrata</i> (Walsingham, 1895) | G | AB SK | |
| <i>Pelochrista kingi</i> Wright, 2008 | G | AB SK U | |
| <i>Pelochrista rorana</i> (Kearfott, 1907) | G | MB | |
| <i>Epiblema abruptana</i> (Walsingham, 1879) * | G | AB | |
| <i>Epiblema benignata</i> McDunnough, 1925 | G | AB SK MB | |
| <i>Epiblema scudderiana</i> (Clemens, 1860) | G | SK MB | |
| <i>Epiblema carolinana</i> (Walsingham, 1895) | G | MB | |
| <i>Epiblema walsinghami</i> (Kearfott, 1907) | p | AB | |
| <i>Epiblema brightonana</i> (Kearfott, 1907) | G | MB | |
| <i>Epiblema tandana</i> (Kearfott, 1907) | G | MB | |
| <i>Epiblema resumptana</i> (Walker, 1863) | p | AB SK MB | |
| <i>Notocelia purpurissatana</i> (Heinrich, 1923) | p | AB SK | |
| <i>Notocelia illotana</i> (Walsingham, 1879) | G | AB SK MB | |
| <i>Notocelia culminana</i> (Walsingham, 1879) | p | AB SK MB | |
| <i>Suleima helianthana</i> (Riley, 1881) | G | SK MB | |
| <i>Suleima baracana</i> (Kearfott, 1907) | G | AB | |
| <i>Gypsonoma fasciolana</i> (Clemens, 1864) | p | AB SK MB | |
| <i>Gypsonoma nebulosana</i> (Packard, 1866) | p | U MB | |
| <i>Gypsonoma haimbachiana</i> (Kearfott, 1907) | p | AB SK MB | |
| <i>Gypsonoma substitutionis</i> Heinrich, 1923 | p | AB SK MB | |
| <i>Gypsonoma salicicolana</i> (Clemens, 1864) | p | AB SK MB | |
| <i>Gypsonoma adjuncta</i> Heinrich, 1924 | p | AB SK MB | |
| <i>Proteoteras aesculana</i> Riley, 1881 | G | AB SK MB | |
| <i>Proteoteras willingana</i> (Kearfott, 1904) | G | AB SK MB | |
| <i>Proteoteras crescentana</i> Kearfott, 1907 | G | AB SK MB | |
| <i>Zeiraphera canadensis</i> Mutuura & Freeman, [1967] | p | AB SK MB | |
| <i>Zeiraphera fortunana</i> (Kearfott, 1907) | p | AB SK MB | |
| <i>Pseudexentera oregonana</i> (Walsingham, 1879) | G | AB SK MB | |
| <i>Rhopobota naevana</i> (Hübner, [1817]) | p | AB | |
| <i>Epinotia radicans</i> (Heinrich, 1923) | p | AB SK MB | |
| <i>Epinotia solandriana</i> (Linnaeus, 1758) | p | AB SK MB | |
| <i>Epinotia castaneana</i> (Walsingham, 1895) | p | AB SK U | |
| <i>Epinotia madderana</i> (Kearfott, 1907) | p | AB SK MB | |
| <i>Epinotia xandana</i> (Kearfott, 1907) | p | AB | |
| <i>Epinotia albicapitana</i> (Kearfott, 1907) | G | AB | |
| <i>Epinotia rectiplicana</i> (Walsingham, 1879) | p | AB SK MB | |
| <i>Epinotia corylana</i> McDunnough, 1925 | p | AB | |
| <i>Epinotia solicitana</i> (Walker, 1863) | p | AB MB | |
| <i>Epinotia nisella</i> (Clerck, 1759) | p | AB SK MB | |
| <i>Epinotia cinereana</i> (Haworth, 1811) | p | AB SK MB | |
| <i>Epinotia transmissana</i> (Walker, 1863) | p | AB SK MB | |
| <i>Epinotia momonana</i> (Kearfott, 1907) | p | AB MB | |
| <i>Epinotia silvertoniensis</i> Heinrich, 1923 | p | AB SK | |
| <i>Epinotia nigralbana</i> (Walsingham, 1879) | p | AB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| <i>Epinotia columbia</i> (Kearfott, 1904) | p | AB SK MB | |
| <i>Epinotia lomonana</i> (Kearfott, 1907) | p | AB P MB | |
| <i>Epinotia medioplagata</i> (Walsingham, 1895) | G | AB SK MB | |
| <i>Epinotia lindana</i> (Fernald, 1892) | p | AB SK MB | |
| <i>Catastega timidella</i> Clemens, 1861 | p | U MB | I? |
| Tribe Grapholitini | | | |
| <i>Dichrorampha bittana</i> (Busck, 1906) | p | AB SK | |
| <i>Dichrorampha sedatana</i> (Busck, 1906) | p | AB SK | |
| <i>Pammene felicitana</i> Heinrich, 1923 | p | AB SK | |
| <i>Pammene perstructana</i> (Walker, 1863) | p | AB MB | |
| <i>Sereda tautana</i> (Clemens, 1865) | p | SK MB | |
| <i>Grapholita packardi</i> (Zeller, 1875) | p | AB | |
| <i>Grapholita prunivora</i> (Walsh, 1868) | p | AB SK MB | |
| <i>Grapholita lunatana</i> (Walsingham, 1879) | p | AB SK MB | |
| <i>Grapholita dyarana</i> (Kearfott, 1907) * | G | AB | |
| <i>Cydia youngana</i> (Kearfott, 1907) | p | AB SK MB | |
| <i>Cydia multilineana</i> (Kearfott, 1907) | p | AB MB | |
| <i>Cydia ingrata</i> (Heinrich, 1926) | p | AB SK MB | |
| <i>Cydia populana</i> (Busck, 1916) | p | AB SK MB | |
| <i>Cydia flexiloqua</i> (Heinrich, 1926) | p | AB SK MB | |
| <i>Cydia nigricana</i> (Fabricius, 1794) | G | AB MB | I |
| <i>Cydia lautiuscula</i> (Heinrich, 1926) | p | AB SK MB | |
| <i>Cydia pomonella</i> (Linnaeus, 1758) | p | AB | I |
| <i>Ecdytoplopha insiticiana</i> Zeller, 1875 | p | SK MB | |
| Superfamily Cossoidea | | | |
| Family Cossidae | | | |
| Subfamily Cossinae | | | |
| <i>Acosus centerensis</i> (Lintner, 1877) | p | AB SK MB | |
| <i>Acosus populi</i> (Walker, 1856) | p | AB SK MB | |
| <i>Prionoxystus robiniae</i> (Peck, 1818) | G | AB SK MB | |
| Family Sesiidae | | | |
| Subfamily Tinthiinae | | | |
| Tribe Tinthiini | | | |
| <i>Zenodoxus canescens</i> Edwards, 1881 * | G | AB | |
| <i>Zenodoxus sidalceae</i> Engelhardt, 1946 | G | AB | |
| Tribe Pennisetiini | | | |
| <i>Pennisetia marginatum</i> (Harris, 1839) | p | AB SK MB | |
| Subfamily Sesiinae | | | |
| Tribe Paranthrenini | | | |
| <i>Paranthrene robiniae</i> (Edwards, 1880) | p | AB SK | |
| <i>Paranthrene tabaniformis</i> (Rottemburg, 1775) | p | AB SK MB | |
| <i>Albuna pyramidalis</i> (Walker, 1856) | G | AB SK MB | |
| <i>Euhagena nebraskae</i> Edwards, 1881 | G | AB SK | |
| Tribe Sesiini | | | |
| <i>Sesia tibiale</i> (Harris, 1839) | p | AB SK MB | |
| <i>Sesia spartani</i> Eichlín & Taft, 1988 | p | AB | |
| Tribe Synanthedonini | | | |
| <i>Synanthedon pictipes</i> (Grote & Robinson, 1868) | p | AB SK MB | |
| <i>Synanthedon tipuliformis</i> (Clerck, 1759) | G | AB P MB | I? |
| <i>Synanthedon fatifera</i> Hodges, 1962 | p | AB P MB | |
| <i>Synanthedon bolteri</i> (Edwards, 1883) | p | AB SK MB | |
| <i>Synanthedon culiciformis</i> (Linnaeus, 1758) | p | AB | |
| <i>Synanthedon helenis</i> (Engelhardt, 1946) | p | AB SK MB | |
| <i>Synanthedon albicornis</i> (Edwards, 1881) | p | AB U U | |
| <i>Synanthedon proxima</i> (Edwards, 1881) | p | AB SK MB | |
| <i>Synanthedon polygona</i> (Edwards, 1881) | p | AB | |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| <i>Synanthedon exitiosa</i> (Say, 1823) | p | | MB |
| <i>Podosesia syringae</i> (Harris, 1839) | G | AB SK | MB |
| <i>Carmenta anthracipennis</i> (Boisduval, 1875) | G | | SK MB |
| <i>Carmenta giliae</i> (Edwards, 1881) | G | AB | |
| <i>Carmenta verecunda</i> (Edwards, 1881) | G | P | MB |
| Superfamily Zygaenoidea | | | |
| Family Limacodidae | | | |
| Subfamily Limacodinae | | | |
| <i>Tortricidia testacea</i> Packard, 1864 | p | AB SK | MB |
| <i>Tortricidia flexuosa</i> (Grote, 1880) | p | | MB |
| Family Zygaenidae | | | |
| Subfamily Procridinae | | | |
| Tribe Procridini | | | |
| <i>Pyromorpha dimidiata</i> Herrich-Schäffer, 1854 | p | | MB |
| <i>Harrisina americana</i> (Guérin-Méneville, 1829) | p | | MB |
| Superfamily Thyridoidea | | | |
| Family Thyrididae | | | |
| Subfamily Thyridinae | | | |
| <i>Thyris maculata</i> Harris, 1839 | G | AB SK | MB |
| <i>Pseudothyris sepulchralis</i> (Guérin-Méneville, 1832) | p | | SK MB |
| Superfamily Papilionoidea | | | |
| Family Papilionidae | | | |
| Subfamily Parnassiinae | | | |
| Tribe Parnassiini | | | |
| <i>Parnassius smintheus</i> Doubleday, 1847 | p | AB SK | |
| Subfamily Papilioninae | | | |
| Tribe Troidini | | | |
| Subtribe Troidina | | | |
| <i>Battus philenor</i> (Linnaeus, 1771) | p | | SK MB |
| Tribe Papilionini | | | |
| <i>Papilio machaon</i> Linnaeus, 1758 | G | AB SK | MB |
| <i>Papilio polyxenes</i> Fabricius, 1775 | G | | SK MB |
| <i>Papilio zelicaon</i> Lucas, 1852 | G | AB SK | |
| <i>Papilio cressphontes</i> Cramer, 1777 | p | | MB |
| <i>Papilio canadensis</i> Rothschild & Jordan, 1906 | G | AB SK | MB |
| <i>Papilio eurymedon</i> Lucas, 1852 | p | AB | |
| <i>Papilio multicaudata</i> Kirby, 1884 | G | AB SK | |
| Family Hesperidae | | | |
| Subfamily Eudaminae | | | |
| <i>Epargyreus clarus</i> (Cramer, 1775) | G | AB SK | MB |
| <i>Thorybes bathyllus</i> (Smith, 1797) | p | | MB |
| <i>Thorybes pylades</i> (Scudder, 1870) | G | AB SK | MB |
| Subfamily Pyrginae | | | |
| Tribe Carcharodini | | | |
| <i>Pholisora catullus</i> (Fabricius, 1793) | G | AB SK | MB |
| Tribe Erynnini | | | |
| <i>Erynnis icelus</i> (Scudder & Burgess, 1870) | G | AB SK | MB |
| <i>Erynnis brizo</i> (Boisduval & Le Conte, [1837]) | p | | SK MB |
| <i>Erynnis juvenalis</i> (Fabricius, 1793) | p | | SK MB |
| <i>Erynnis martialis</i> (Scudder, [1870]) | p | P | MB |
| <i>Erynnis lucilius</i> (Scudder & Burgess, 1870) | p | | MB |
| <i>Erynnis afranius</i> (Lintner, 1878) | G | AB SK | MB |
| <i>Erynnis persius</i> (Scudder, 1863) | G | AB SK | MB |
| Tribe Pyrgini | | | |
| <i>Pyrgus scriptura</i> (Boisduval, 1852) | G | AB SK | |
| <i>Pyrgus communis</i> (Grote, 1872) | G | AB SK | MB |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| Subfamily Heteropterinae | | | |
| <i>Carterocephalus palaemon</i> (Pallas, 1771) | p | AB SK MB | |
| <i>Carterocephalus mandan</i> (Edwards, 1863) | p | AB SK MB | |
| Subfamily Hesperinae | | | |
| Tribe Megathymini | | | |
| <i>Megathymus streckeri</i> (Skinner, 1895) * | G | AB | |
| Tribe Thymelicini | | | |
| <i>Ancyloxypha numitor</i> (Fabricius, 1793) | G | S SK MB | |
| <i>Oarisma poweshiek</i> (Parker, 1870) * | G | | MB |
| <i>Oarisma garita</i> (Reakirt, 1866) | G | AB SK MB | |
| <i>Thymelicus lineola</i> (Ochsenheimer, 1808) | p | AB SK MB | I |
| <i>Amblyscirtes oslari</i> (Skinner, 1899) * | G | AB SK | |
| <i>Amblyscirtes hegon</i> (Scudder, 1863) | p | | SK MB |
| <i>Amblyscirtes vialis</i> (Edwards, 1862) | G | AB SK MB | |
| Tribe Hesperini | | | |
| <i>Hesperia uncas</i> Edwards, 1863 * | G | AB SK MB | |
| <i>Hesperia assiniboia</i> (Lyman, 1892) | G | AB SK MB | |
| <i>Hesperia colorado</i> (Scudder, 1874) | G | P SK | |
| <i>Hesperia ottoe</i> Edwards, 1866 * | G | | P MB |
| <i>Hesperia leonardus</i> Harris, 1862 | G | P SK MB | |
| <i>Hesperia pahaska</i> (Leussler, 1938) * | G | P SK MB | |
| <i>Hesperia dacotae</i> (Skinner, 1911) * | G | | SK MB |
| <i>Hesperia sassacus</i> Harris, 1862 | p | | MB |
| <i>Hesperia nevada</i> (Scudder, 1874) | G | AB SK MB | |
| <i>Polites rhesus</i> (Edwards, 1878) * | G | AB SK | |
| <i>Polites peckius</i> (Kirby, 1837) | G | AB SK MB | |
| <i>Polites draco</i> (Edwards, 1871) | p | AB SK | |
| <i>Polites themistocles</i> (Latreille, [1824]) | G | AB SK MB | |
| <i>Polites mystic</i> (Edwards, 1863) | G | AB SK MB | |
| <i>Wallengrenia egeremet</i> (Scudder, 1863) | G | | MB |
| <i>Atalopedes campestris</i> (Boisduval, 1852) | p | | S |
| <i>Poanes hobomok</i> (Harris, 1862) | G | AB SK MB | |
| <i>Ochlodes sylvanoides</i> (Boisduval, 1852) | G | AB SK | |
| <i>Anatrytone logan</i> (Edwards, 1863) | G | AB SK MB | |
| <i>Notamblyscirtes simius</i> (Edwards, 1881) * | G | P SK | |
| <i>Euphyes vestris</i> (Boisduval, 1852) | G | AB SK MB | |
| <i>Atrytonopsis hianna</i> (Scudder, 1868) | G | SK MB | |
| Family Pieridae | | | |
| Subfamily Coliadinae | | | |
| <i>Nathalis iole</i> Boisduval, 1836 | p | | SK MB |
| <i>Eurema mexicana</i> (Boisduval, 1836) | p | | SK MB |
| <i>Pyrisitia lisa</i> (Boisduval & Le Conte, [1830]) | p | | MB |
| <i>Colias philodice</i> Godart, 1819 | G | AB SK MB | |
| <i>Colias eurytheme</i> Boisduval, 1852 | G | M M M | |
| <i>Colias christina</i> Edwards, 1863 | G | AB SK MB | |
| <i>Colias alexandra</i> Edwards, 1863 | G | AB SK MB | |
| <i>Colias gigantea</i> Strecker, 1900 | p | AB SK MB | |
| <i>Colias interior</i> Scudder, 1862 | p | AB SK MB | |
| <i>Zerene cesonia</i> (Stoll, [1790]) | G | S | S |
| Subfamily Anthocharinae | | | |
| <i>Anthocharis stella</i> Edwards, 1879 | p | AB | |
| <i>Euchloe ausonides</i> (Lucas, 1852) | G | AB SK MB | |
| <i>Euchloe olympia</i> (Edwards, 1871) | G | AB SK MB | |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| Subfamily Pierinae | | | |
| Tribe Pierini | | | |
| Subtribe Pierina | | | |
| <i>Pieris marginalis</i> Scudder, 1861 | p | AB SK | |
| <i>Pieris oleracea</i> Harris, 1829 | p | AB SK MB | |
| <i>Pieris rapae</i> (Linnaeus, 1758) | G | AB SK MB | I |
| <i>Pontia protodice</i> (Boisduval & Le Conte, [1830]) | G | M M M | |
| <i>Pontia occidentalis</i> (Reakirt, 1866) | G | AB SK MB | |
| Family Riodinidae | | | |
| Subfamily Riodininae | | | |
| Tribe Emesiini | | | |
| <i>Apodemia mormo</i> (Felder & Felder, 1859) | G | SK | |
| Family Lycaenidae | | | |
| Subfamily Miletinae | | | |
| Tribe Miletini | | | |
| Subtribe Spalgina | | | |
| <i>Feniseca tarquinius</i> (Fabricius, 1793) | p | SK MB | |
| Subfamily Lycaeninae | | | |
| Tribe Lycaenini | | | |
| <i>Lycaena phlaeas</i> (Linnaeus, 1761) | p | AB SK MB | |
| <i>Lycaena dione</i> (Scudder, 1868) | G | AB SK MB | |
| <i>Lycaena editha</i> (Mead, 1878) | p | S | |
| <i>Lycaena rubidus</i> (Behr, 1866) * | G | AB SK | |
| <i>Lycaena hyllus</i> (Cramer, 1775) | G | AB SK MB | |
| <i>Lycaena dorcas</i> Kirby, 1837 | p | AB SK MB | |
| <i>Lycaena helloides</i> (Boisduval, 1852) | G | AB SK MB | |
| <i>Lycaena mariposa</i> (Reakirt, 1866) | p | AB SK | |
| Subfamily Theclinae | | | |
| Tribe Eumaeini | | | |
| Subtribe Eumaeina | | | |
| <i>Satyrium acadica</i> (Edwards, 1862) | G | AB SK MB | |
| <i>Satyrium titus</i> (Fabricius, 1793) | G | AB SK MB | |
| <i>Satyrium edwardsii</i> (Grote & Robinson, 1869) | p | SK MB | |
| <i>Satyrium calanus</i> (Hübner, [1809]) | p | SK MB | |
| <i>Satyrium liparops</i> (Le Conte, 1833) | G | AB SK MB | |
| <i>Callophrys gryneus</i> (Hübner, [1819]) | G | P SK | |
| <i>Callophrys augustinus</i> (Westwood, 1852) | p | AB SK MB | |
| <i>Callophrys polios</i> (Cook & Watson, 1907) | p | AB SK MB | |
| <i>Callophrys henrici</i> (Grote & Robinson, 1867) | p | MB | |
| <i>Callophrys niphon</i> (Hübner, [1819]) | p | AB SK MB | |
| <i>Callophrys eryphon</i> (Boisduval, 1852) | p | AB SK MB | |
| <i>Calycopis cecrops</i> (Fabricius, 1793) | p | SK | |
| <i>Strymon melinus</i> Hübner, 1818 | G | AB SK MB | |
| Subfamily Polyommatainae | | | |
| Tribe Polyommataini | | | |
| <i>Leptotes marina</i> (Reakirt, 1868) | p | SK | |
| <i>Cupido comyntas</i> (Godart, [1824]) | p | SK MB | |
| <i>Cupido amyntula</i> (Boisduval, 1852) | G | AB SK MB | |
| <i>Celastrina lucia</i> (Kirby, 1837) | p | AB SK MB | |
| <i>Celastrina neglecta</i> (Edwards, 1862) | G | AB SK MB | |
| <i>Euphilotes ancilla</i> (Barnes & McDunnough, 1918) * | G | AB SK | |
| <i>Glaucopsyche piasus</i> (Boisduval, 1852) | G | AB SK | |
| <i>Glaucopsyche lygdamus</i> (Doubleday, 1842) | G | AB SK MB | |
| <i>Echinargus isola</i> (Reakirt, 1866) | p | SK MB | |
| <i>Plebejus idas</i> (Linnaeus, 1761) | p | AB SK MB | |
| <i>Plebejus melissa</i> (Edwards, 1873) | G | AB SK MB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| <i>Plebejus saepiolus</i> (Boisduval, 1852) | G | AB SK MB | |
| <i>Plebejus icarioides</i> (Boisduval, 1852) | G | AB SK | |
| <i>Plebejus shasta</i> (Edwards, 1862) * | G | AB SK | |
| <i>Plebejus lupini</i> (Boisduval, 1869) | G | AB SK | |
| <i>Plebejus glandon</i> (de Prunner, 1798) | G | AB SK MB | |
| Family Nymphalidae | | | |
| Subfamily Danainae | | | |
| Tribe Danaini | | | |
| Subtribe Danaina | | | |
| <i>Danaus plexippus</i> (Linnaeus, 1758) | G | M M M | |
| Subfamily Limenitidinae | | | |
| Tribe Limenitidini | | | |
| Subtribe Limenitidina | | | |
| <i>Limenitis arthemis</i> (Drury, 1773) | G | AB SK MB | |
| <i>Limenitis weidemeyerii</i> Edwards, 1861 * | G | AB P | |
| <i>Limenitis lorquini</i> Boisduval, 1852 | p | AB SK | |
| <i>Limenitis archippus</i> (Cramer, 1776) | G | AB SK MB | |
| Subfamily Heliconiinae | | | |
| Tribe Heliconiini | | | |
| Subtribe Heliconiina | | | |
| <i>Agraulis vanillae</i> (Linnaeus, 1758) | p | | S |
| Tribe Argynnini | | | |
| Subtribe Euptoietina | | | |
| <i>Euptoietia claudia</i> (Cramer, 1776) | G | M M M | |
| Subtribe Boloriina | | | |
| <i>Boloria eunomia</i> (Esper, 1800) | p | AB SK MB | |
| <i>Boloria myrina</i> (Cramer, 1777) | G | AB SK MB | |
| <i>Boloria bellona</i> (Fabricius, 1775) | G | AB SK MB | |
| <i>Boloria frigga</i> (Thunberg, 1791) | p | AB SK MB | |
| <i>Boloria freija</i> (Thunberg, 1791) | p | AB SK MB | |
| <i>Boloria chariclea</i> (Schneider, 1794) | p | AB SK MB | |
| Subtribe Argynnina | | | |
| <i>Speyeria cybele</i> (Fabricius, 1775) | G | AB SK MB | |
| <i>Speyeria leto</i> (Behr, 1862) | G | AB | |
| <i>Speyeria aphrodite</i> (Fabricius, 1787) | G | AB SK MB | |
| <i>Speyeria idalia</i> (Drury, 1773) | G | SK MB | |
| <i>Speyeria edwardsii</i> (Reakirt, 1866) * | G | AB SK MB | |
| <i>Speyeria zerene</i> (Boisduval, 1852) | G | AB SK | |
| <i>Speyeria callippe</i> (Boisduval, 1852) | G | AB SK MB | |
| <i>Speyeria egleis</i> (Behr, 1862) * | G | AB P | |
| <i>Speyeria atlantis</i> (Edwards, 1862) | p | AB SK MB | |
| <i>Speyeria hesperis</i> (Edwards, 1864) | G | AB SK MB | |
| <i>Speyeria hydaspe</i> (Boisduval, 1869) | p | AB SK | |
| <i>Speyeria mormonia</i> (Boisduval, 1869) | G | AB SK MB | |
| Subfamily Apaturinae | | | |
| <i>Asterocampa celtis</i> (Boisduval & Le Conte, [1837]) | p | | MB |
| Subfamily Nymphalinae | | | |
| Tribe Nymphalini | | | |
| <i>Vanessa virginiensis</i> (Drury, 1773) | G | S S S | |
| <i>Vanessa cardui</i> (Linnaeus, 1758) | G | M M M | |
| <i>Vanessa annabella</i> (Field, 1971) | p | M M P | |
| <i>Vanessa atalanta</i> (Linnaeus, 1758) | G | AB SK MB | |
| <i>Aglais milberti</i> (Godart, 1819) | G | AB SK MB | |
| <i>Nymphalis j-album</i> (Boisduval & Le Conte, 1833) | p | AB SK MB | |
| <i>Nymphalis californica</i> (Boisduval, 1852) | p | AB SK MB | |
| <i>Nymphalis antiopa</i> (Linnaeus, 1758) | G | AB SK MB | |

| | Status | Occurrence | | | Introduced? |
|--|--------|------------|----|----|-------------|
| <i>Polygonia interrogationis</i> (Fabricius, 1798) | G | S | S | S | |
| <i>Polygonia comma</i> (Harris, 1842) | G | | SK | MB | |
| <i>Polygonia satyrus</i> (Edwards, 1869) | p | AB | SK | MB | |
| <i>Polygonia progne</i> (Cramer, 1776) | G | AB | SK | MB | |
| <i>Polygonia gracilis</i> (Grote & Robinson, 1867) | p | AB | SK | MB | |
| <i>Polygonia faunus</i> (Edwards, 1862) | p | AB | SK | MB | |
| Tribe Junoniini | | | | | |
| <i>Junonia coenia</i> Hübner, [1822] | p | | | S | |
| Tribe Melitaeini | | | | | |
| Subtribe Euphydryina | | | | | |
| <i>Euphydryas editha</i> (Boisduval, 1852) | G | AB | SK | | |
| <i>Euphydryas anicia</i> (Doubleday, [1847]) | G | AB | SK | | |
| <i>Euphydryas bernadetta</i> Leussler, 1920 * | G | AB | | | |
| Subtribe Melitaeini | | | | | |
| <i>Chlosyne nycteis</i> (Doubleday, 1847) | p | | SK | MB | |
| <i>Chlosyne gorgone</i> (Hübner, 1810) | G | AB | SK | MB | |
| <i>Chlosyne harrisii</i> (Scudder, 1862) | p | | SK | MB | |
| <i>Chlosyne acastus</i> (Edwards, 1874) * | G | AB | SK | | |
| Subtribe Phyciodina | | | | | |
| <i>Phyciodes tharos</i> (Drury, 1773) | G | AB | SK | MB | |
| <i>Phyciodes cocyta</i> (Cramer, [1777]) | G | AB | SK | MB | |
| <i>Phyciodes batesii</i> (Reakirt, 1865) | G | AB | SK | MB | |
| Subfamily Satyrinae | | | | | |
| Tribe Elymiini | | | | | |
| Subtribe Lethina | | | | | |
| <i>Lethe anthedon</i> (Clark, 1936) | p | AB | SK | MB | |
| <i>Lethe eurydice</i> (Linnaeus, 1763) | p | AB | SK | MB | |
| Tribe Satyrini | | | | | |
| Subtribe Coenonymphina | | | | | |
| <i>Coenonympha tullia</i> (Müller, 1764) | G | AB | SK | MB | |
| Subtribe Euptychiina | | | | | |
| <i>Megisto cymela</i> (Cramer, 1777) | p | P | SK | MB | |
| Subtribe Maniolina | | | | | |
| <i>Cercyonis pegala</i> (Fabricius, 1775) | G | AB | SK | MB | |
| <i>Cercyonis oetus</i> (Boisduval, 1869) | G | AB | SK | | |
| Subtribe Erebiina | | | | | |
| <i>Erebia mancinus</i> Doubleday & Hewitson, 1849 | p | AB | SK | MB | |
| <i>Erebia epipsodea</i> Butler, 1868 | G | AB | SK | MB | |
| <i>Erebia discoidalis</i> (Kirby, 1837) | p | AB | SK | MB | |
| <i>Neominois ridingsii</i> (Edwards, 1865) * | G | AB | SK | MB | |
| <i>Oeneis jutta</i> (Hübner, [1806]) | p | AB | SK | MB | |
| <i>Oeneis chryxus</i> (Doubleday & Hewitson, 1849) | p | AB | SK | MB | |
| <i>Oeneis alberta</i> Elwes, 1893 | G | AB | SK | MB | |
| <i>Oeneis macounii</i> (Edwards, 1885) | p | AB | SK | MB | |
| <i>Oeneis uhleri</i> (Reakirt, 1866) | G | AB | SK | MB | |
| Superfamily Pyraloidea | | | | | |
| Family Pyralidae | | | | | |
| Subfamily Chrysauginae | | | | | |
| <i>Acallis gripalis</i> (Hulst, 1886) | G | AB | | | |
| <i>Galasa nigrinodis</i> (Zeller, 1873) | p | | | MB | |
| Subfamily Galleriinae | | | | | |
| Tribe Galleriini | | | | | |
| <i>Galleria mellonella</i> (Linnaeus, 1758) | p | H | H | | I |
| Subfamily Pyralinae | | | | | |
| Tribe Pyralini | | | | | |
| <i>Pyralis farinalis</i> Linnaeus, 1758 | G | AB | SK | MB | I |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| <i>Aglossa pinguinalis</i> (Linnaeus, 1758) | p | H | I |
| <i>Aglossa caprealis</i> (Hübner, [1809]) | p | AB | I |
| <i>Aglossa cuprina</i> Zeller, 1872 | G | AB | |
| <i>Hypsopygia costalis</i> (Fabricius, 1775) | p | S SK | |
| <i>Dolichomia olinalis</i> (Guenée, 1854) | p | AB SK MB | |
| <i>Dolichomia thymetusalis</i> (Walker, 1859) | p | AB SK MB | |
| Subfamily Epipaschiinae | | | |
| <i>Toripalpus trabalis</i> Grote, 1881 | G | AB SK | |
| <i>Oneida lunulalis</i> (Hulst, 1887) | p | | MB |
| <i>Pococera aplastella</i> (Hulst, 1888) | p | AB SK MB | |
| <i>Pococera asperatella</i> (Clemens, 1860) | p | AB SK MB | |
| <i>Pococera expandens</i> (Walker, 1863) | p | | MB |
| <i>Pococera baptisiella</i> (Fernald, 1887) | G | AB SK U | |
| Subfamily Phycitinae | | | |
| Tribe Phycitini | | | |
| <i>Acrobasis indigenella</i> (Zeller, 1848) | G | AB U MB | |
| <i>Acrobasis tricolorella</i> Grote, 1878 | p | AB SK MB | |
| <i>Acrobasis betulella</i> Hulst, 1890 | p | AB SK MB | |
| <i>Myelopsis minutularia</i> (Hulst, 1887) | G | AB SK MB | |
| <i>Myelopsis subtetricella</i> (Ragonot, 1889) | G | AB SK MB | |
| <i>Apomyelois bistratella</i> (Hulst, 1887) | p | AB SK MB | |
| <i>Eulogia ochrifrontella</i> (Zeller, 1876) | p | AB SK MB | |
| <i>Ephesiodes gilvescentella</i> Ragonot, 1887 | G | AB | |
| <i>Moodna ostrinella</i> (Clemens, 1860) | p | AB SK MB | |
| <i>Caudellia nigrella</i> (Hulst, 1890) | p | AB | |
| <i>Vitula edmandsii</i> (Packard, 1864) | p | | MB |
| <i>Vitula serratilineella</i> Ragonot, 1887 | G | AB SK | |
| <i>Vitula broweri</i> (Heinrich, 1956) | p | AB SK MB | |
| <i>Sosipatra rileyella</i> (Ragonot, 1887) * | G | AB | |
| <i>Plodia interpunctella</i> (Hübner, [1813]) | p | AB SK MB | |
| <i>Ephestia elutella</i> (Hübner, 1796) | p | H P H | I |
| <i>Ephestia kuehniella</i> Zeller, 1879 | p | H H H | |
| <i>Ephestia columbiella</i> Neunzig, 1990 | p | U SK MB | |
| <i>Bandera binotella</i> (Zeller, 1872) | G | AB | |
| <i>Bandera virginella</i> Dyar, 1908 | G | AB | |
| <i>Bandera cupidinella</i> Hulst, 1888 * | G | AB | |
| <i>Eurythmia angulella</i> Ely, 1910 | p | | MB |
| <i>Pima fosterella</i> Hulst, 1888 | G | AB SK | |
| <i>Pima boisduvaliella</i> (Guenée, 1845) | G | AB SK MB | |
| <i>Pima fulvirugella</i> (Ragonot, 1887) | G | AB SK MB | |
| <i>Pima albocostalis</i> (Hulst, 1886) | G | AB | |
| <i>Interjectio columbiella</i> (McDunnough, 1935) | G | AB | |
| <i>Interjectio denticulella</i> (Ragonot, 1887) | p | SK | |
| <i>Interjectio nivella</i> (Hulst, 1888) | G | AB SK MB | |
| <i>Ambesa laetella</i> Grote, 1880 | G | AB SK MB | |
| <i>Catastia incorruscella</i> (Hulst, 1895) | p | AB | |
| <i>Catastia actualis</i> (Hulst, 1886) | G | AB SK MB | |
| <i>Oreana unicolorella</i> (Hulst, 1887) | p | | MB |
| <i>Salebriaria tenebrosella</i> (Hulst, 1887) | p | SK MB | |
| <i>Ortholepis pasadamia</i> (Dyar, 1917) | p | AB SK MB | |
| <i>Meroptera pravella</i> (Grote, 1878) | p | AB SK MB | |
| <i>Meroptera abditiva</i> Heinrich, 1956 | p | P SK | |
| <i>Sciota basilaris</i> (Zeller, 1872) | p | AB SK MB | |
| <i>Sciota levigatella</i> (Hulst, 1892) | p | AB MB | |
| <i>Sciota fernaldi</i> (Ragonot, 1887) | G | AB SK MB | |
| <i>Sciota rubescentella</i> (Hulst, 1900) | G | AB SK | |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| <i>Sciota carneella</i> (Hulst, 1887) | p | MB | |
| <i>Tulsa finitella</i> (Walker, 1863) | p | SK MB | |
| <i>Teletusia ovalis</i> (Packard, 1873) | p | AB SK MB | |
| <i>Pyla impostor</i> Heinrich, 1956 | G | AB | |
| <i>Pyla arenaeola</i> Balogh & Wilterding, 1998 | p | MB | |
| <i>Pyla aenigmatica</i> Heinrich, 1956 | G | AB | |
| <i>Pyla fusca</i> (Haworth, 1828) | p | AB SK MB | |
| <i>Pyla hanhamella</i> Dyar, 1904 | G | AB SK MB | |
| <i>Pyla aeneoviridella</i> Ragonot, 1887 | p | AB | |
| <i>Pyla metalicella</i> Hulst, 1895 | G | MB | |
| <i>Dioryctria abietivorella</i> (Grote, 1878) | p | AB SK MB | |
| <i>Dioryctria reniculelloides</i> Mutuura & Munroe, 1973 | p | AB SK MB | |
| <i>Dioryctria auranticella</i> (Grote, 1883) | p | AB SK | |
| <i>Dioryctria rossi</i> Munroe, 1959 | p | AB | |
| <i>Dioryctria zimmermani</i> (Grote, 1877) | p | AB SK MB | |
| <i>Sarata nigrifasciella</i> Ragonot, 1887 | p | MB | |
| <i>Sarata caudellella</i> (Dyar, 1904) | G | AB SK MB | |
| <i>Sarata edwardsialis</i> (Hulst, 1886) | G | AB | |
| <i>Sarata punctella</i> (Dyar, 1915) | G | AB SK | |
| <i>Sarata alpha</i> Heinrich, 1956 | G | SK MB | |
| <i>Lipographis fenestrella</i> (Packard, 1873) | G | AB MB | |
| <i>Etiella zinckenella</i> (Treitschke, 1832) | G | P SK MB | I |
| <i>Staudingeria albipenella</i> (Hulst, 1887) | G | AB | |
| <i>Hulstia undulatella</i> (Clemens, 1860) | G | AB SK MB | |
| <i>Rostrolaetia placidissima</i> Blanchard & Ferguson, 1975 * | G | AB | |
| <i>Zophodia grossulariella</i> (Hübner, [1809]) | p | AB SK MB | |
| <i>Melitara dentata</i> (Grote, 1876) * | G | AB SK | |
| <i>Melitara subumbrella</i> (Dyar, 1925) * | G | AB SK | |
| <i>Homoeosoma electella</i> (Hulst, 1887) | G | AB SK MB | |
| <i>Homoeosoma stypticellum</i> Grote, 1878 | p | AB SK MB | |
| <i>Homoeosoma illuviellum</i> Ragonot, 1888 | G | AB | |
| <i>Homoeosoma impressale</i> Hulst, 1886 | G | AB MB | |
| <i>Homoeosoma ardaloniphis</i> Goodson & Neunzig, 1993 | G | AB SK MB | |
| <i>Phycitodes mucidella</i> (Ragonot, 1887) | G | AB SK MB | |
| Tribe Anerastiini | | | |
| <i>Ragonotia dotalis</i> (Hulst, 1886) | G | AB | |
| <i>Anerastia lotella</i> (Hübner, [1813]) | G | AB SK MB | |
| <i>Coenochroa californiella</i> Ragonot, 1887 | G | AB | |
| <i>Coenochroa illibella</i> (Hulst, 1887) | G | AB | |
| Tribe Peoriini | | | |
| <i>Peoria approximella</i> (Walker, 1866) | G | AB SK MB | |
| Family Crambidae | | | |
| Subfamily Scopariinae | | | |
| <i>Gesneria centuriella</i> ([Denis & Schiffermüller], 1775) | G | AB SK MB | |
| <i>Scoparia penumbrialis</i> Dyar, 1906 | p | MB | |
| <i>Scoparia biplagiata</i> Walker, 1866 | p | AB SK MB | |
| <i>Scoparia basalis</i> Walker, 1866 | p | U SK MB | |
| <i>Eudonia alpina</i> (Curtis, 1850) | p | AB SK MB | |
| Subfamily Crambinae | | | |
| Tribe Ancyrolomiini | | | |
| <i>Pseudoschoenobius opalescalis</i> (Hulst, 1886) | G | AB | |
| Tribe Argyriini | | | |
| <i>Urola nivalis</i> (Drury, 1773) | p | MB | |
| Tribe Haimbachiini | | | |
| <i>Occidentalia comptulatalis</i> (Hulst, 1886) | p | AB SK MB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| Tribe Crambini | | | |
| <i>Euchromius californicalis</i> (Packard, 1873) | G | AB SK | |
| <i>Platytes vobisne</i> Dyar, 1920 | G | AB | |
| <i>Catoptria latiradiellus</i> (Walker, 1863) | p | AB SK MB | |
| <i>Chrysoteuchia topiarius</i> (Zeller, 1866) | G | AB SK MB | |
| <i>Crambus pascuella</i> (Linnaeus, 1758) | G | AB SK MB | |
| <i>Crambus perlella</i> (Scopoli, 1763) | p | AB SK MB | |
| <i>Crambus unistriatellus</i> Packard, 1867 | p | AB SK MB | |
| <i>Crambus whitmerellus</i> Klots, 1942 | p | AB SK MB | |
| <i>Crambus awemellus</i> McDunnough, 1921 | p | AB SK MB | |
| <i>Crambus trichusalis</i> Hulst, 1886 | G | AB SK | |
| <i>Crambus ainsliellus</i> Klots, 1942 | G | AB SK MB | |
| <i>Crambus praefectellus</i> (Zincken, 1821) | p | AB MB | |
| <i>Crambus leachellus</i> (Zincken, 1818) | p | AB SK MB | |
| <i>Crambus occidentalis</i> Grote, 1880 | G | AB | |
| <i>Crambus albellus</i> Clemens, 1860 | p | U MB | |
| <i>Crambus agitatellus</i> Clemens, 1960 | p | MB | |
| <i>Crambus girardellus</i> Clemens, 1860 | p | AB SK MB | |
| <i>Agriphila ruricolellus</i> (Zeller, 1863) | p | AB SK MB | |
| <i>Agriphila vulgigagellus</i> (Clemens, 1860) | G | AB SK MB | |
| <i>Agriphila attenuatus</i> (Grote, 1880) | G | AB | |
| <i>Neodactria luteolellus</i> (Clemens, 1860) | p | AB SK MB | |
| <i>Neodactria zeellus</i> (Fernald, 1885) | G | AB SK MB | |
| <i>Neodactria caliginosellus</i> (Clemens, 1860) | G | AB SK MB | |
| <i>Neodactria murellus</i> (Dyar, 1904) | G | AB MB | |
| <i>Pediasia aridella</i> (Thunberg, 1788) | G | AB SK MB | |
| <i>Pediasia truncatellus</i> (Zetterstedt, 1840) | p | AB SK MB | |
| <i>Pediasia browerellus</i> (Klots, 1942) | G | MB | |
| <i>Pediasia trisecta</i> (Walker, 1856) | G | AB SK MB | |
| <i>Pediasia laciniellus</i> (Grote, 1880) | G | AB SK | |
| <i>Pediasia ericellus</i> (Barnes & McDunnough, 1918) | p | AB SK | |
| <i>Pediasia abnaki</i> (Klots, 1942) | p | AB MB | |
| <i>Pediasia dorsipunctellus</i> (Kearfott, 1908) | p | AB SK MB | |
| <i>Fissicrambus mutabilis</i> (Clemens, 1860) | p | SK MB | |
| <i>Loxocrambus awemensis</i> McDunnough, 1929 | G | AB SK MB | |
| <i>Tehama bonifatella</i> (Hulst, 1887) | G | AB MB | |
| <i>Thaumatopsis pexellus</i> (Zeller, 1863) | G | AB SK MB | |
| <i>Thaumatopsis fernaldella</i> Kearfott, 1905 | G | AB SK MB | |
| <i>Microcrambus minor</i> (Forbes, 1920) | p | MB | |
| Subfamily Schoenobiinae | | | |
| <i>Donacaula melinellus</i> (Clemens, 1860) | p | AB SK MB | |
| Subfamily Acentropinae | | | |
| Tribe Acentropiini | | | |
| <i>Acentria ephemerella</i> ([Denis & Schiffermüller], 1775) | p | AB | I |
| Tribe Nymphulini | | | |
| <i>Elophila icciusalis</i> (Walker, 1859) | p | AB SK MB | |
| <i>Elophila oblitalis</i> (Walker, 1859) | p | AB SK MB | |
| <i>Parapoynx maculalis</i> (Clemens, 1860) | p | AB SK MB | |
| Tribe Argyractini | | | |
| <i>Petrophila kearfottalis</i> (Barnes & McDunnough, 1917) | G | AB | |
| <i>Petrophila jaliscalis</i> (Schaus, 1906) | G | AB | |
| <i>Petrophila confusalis</i> (Walker, 1866) | G | AB | |
| Subfamily Odontiinae | | | |
| Tribe Odontiini | | | |
| <i>Frechinia criddlealis</i> (Munroe, 1951) | p | MB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| Tribe Eurrhypini | | | |
| <i>Mimoschinia rufofascialis</i> (Stephens, 1834) | G | AB SK | |
| Subfamily Evergestinae | | | |
| <i>Evergestis pallidata</i> (Hufnagel, 1767) | p | AB SK MB | I? |
| <i>Evergestis vinctalis</i> Barnes & McDunnough, 1914 | G | AB | |
| <i>Prorasea simalis</i> Grote, 1878 | G | AB | |
| <i>Prorasea praeia</i> (Dyar, 1917) | G | AB SK | |
| <i>Cylindrifrons succandialis</i> (Hulst, 1886) | G | AB SK | |
| Subfamily Pyraustinae | | | |
| Tribe Pyraustini | | | |
| <i>Saucrobotys fumoferalis</i> (Hulst, 1886) | p | AB SK MB | |
| <i>Saucrobotys futilalis</i> (Lederer, 1863) | p | AB SK MB | |
| <i>Ostrinia penitalis</i> (Grote, 1876) | G | AB SK MB | |
| <i>Ostrinia obumbratalis</i> (Lederer, 1863) | G | SK MB | |
| <i>Ostrinia marginalis</i> (Walker, 1866) | p | AB SK MB | |
| <i>Ostrinia nubilalis</i> (Hübner, 1796) | G | AB SK MB | I |
| <i>Fumibotys fumalis</i> (Guenée, 1854) | p | AB SK MB | |
| <i>Perispasta caeculalis</i> Zeller, 1875 | p | AB SK MB | |
| <i>Anania tertialis</i> (Guenée, 1854) | p | AB SK MB | |
| <i>Anania mysippusalis</i> (Walker, 1859) | p | AB SK MB | |
| <i>Anania funebris</i> (Ström, 1768) | p | AB SK MB | |
| <i>Achyra bifidalis</i> (Fabricius, 1794) | G | S | |
| <i>Sitochroa chortalis</i> (Grote, 1873) | G | AB SK MB | |
| <i>Loxostege lepidalis</i> (Hulst, 1886) | G | AB SK | |
| <i>Loxostege indentalis</i> (Grote, 1883) | G | AB | |
| <i>Loxostege sticticalis</i> (Linnaeus, 1761) | G | M M M | I? |
| <i>Loxostege anartalis</i> (Grote, 1877) | G | AB SK MB | |
| <i>Loxostege cereralis</i> (Zeller, 1872) | G | M M M | |
| <i>Pyrausta nicalis</i> (Grote, 1878) | p | AB SK MB | |
| <i>Pyrausta signatalis</i> (Walker, 1866) | G | AB SK MB | |
| <i>Pyrausta pythialis</i> Barnes & McDunnough, 1918 | G | SK MB | |
| <i>Pyrausta generosa</i> (Grote & Robinson, 1867) | p | AB SK MB | |
| <i>Pyrausta orphisalis</i> Walker, 1859 | p | AB SK MB | |
| <i>Pyrausta subequalis</i> (Guenée, 1854) | G | AB SK MB | |
| <i>Pyrausta scurralis</i> (Hulst, 1886) | G | AB SK MB | |
| <i>Pyrausta unifascialis</i> (Packard, 1873) | p | AB SK MB | |
| <i>Pyrausta fodinalis</i> (Lederer, 1863) | p | AB SK MB | |
| <i>Pyrausta socialis</i> (Grote, 1877) | G | AB SK MB | |
| Tribe Spilomelini | | | |
| <i>Diastictis ventralis</i> (Grote & Robinson, 1867) | G | AB SK MB | |
| <i>Framinghamia helvalis</i> (Walker, 1859) | p | SK MB | |
| <i>Herpetogramma thestealis</i> (Walker, 1859) | G | AB SK MB | |
| <i>Choristostigma plumbosignalis</i> (Fernald, 1888) | p | AB SK MB | |
| <i>Udea rubigalis</i> (Guenée, 1854) | p | AB SK MB | |
| <i>Udea itysalis</i> (Walker, 1859) | p | AB SK MB | |
| <i>Udea radiosalis</i> (Möschler, 1883) | p | AB SK MB | |
| <i>Desmia funeralis</i> (Hübner, 1796) | p | AB SK MB | |
| <i>Desmia maculalis</i> Westwood, 1831 | G | MB | |
| <i>Loxostegopsis polle</i> Dyar, 1917 * | G | AB | |
| <i>Loxostegopsis merrickalis</i> (Barnes & McDunnough, 1918) | p | MB | |
| <i>Palpita magniferalis</i> (Walker, 1861) | p | AB SK MB | |
| <i>Diacme adipaloides</i> (Grote & Robinson, 1867) | p | AB SK MB | |
| <i>Mecyna submedialis</i> (Grote, 1876) | G | AB SK MB | |
| <i>Mecyna mustelinalis</i> (Packard, 1873) | p | AB SK | |
| <i>Nomophila nearctica</i> Munroe, 1973 | G | AB SK MB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| Superfamily Drepanoidea | | | |
| Family Drepanidae | | | |
| Subfamily Thyatirinae | | | |
| Tribe Habrosynini | | | |
| <i>Habrosyne scripta</i> (Gosse, 1840) | p | AB SK MB | |
| <i>Pseudothyatira cymatophoroides</i> (Guenée, 1852) | p | AB SK MB | |
| Tribe Macrothyatirini | | | |
| <i>Euthyatira pudens</i> (Guenée, 1852) | p | AB SK MB | |
| Tribe Ceranemotini | | | |
| <i>Ceranemota albertae</i> Clarke, 1938 | G | AB SK | |
| Subfamily Drepaninae | | | |
| Tribe Drepanini | | | |
| <i>Drepana arcuata</i> Walker, 1855 | p | AB SK MB | |
| <i>Drepana bilineata</i> (Packard, 1864) | p | AB SK MB | |
| <i>Eudeilinia herminiata</i> (Guenée, [1858]) | p | AB SK MB | |
| Tribe Oretini | | | |
| <i>Oreta rosea</i> (Walker, 1855) | p | AB SK MB | |
| Superfamily Lasiocampoidea | | | |
| Family Lasiocampidae | | | |
| Subfamily Lasiocampinae | | | |
| Tribe Gastropachini | | | |
| <i>Phylloidesma americana</i> (Harris, 1841) | p | AB SK MB | |
| Tribe Lasiocampini | | | |
| <i>Malacosoma disstria</i> Hübner, 1820 | p | AB SK MB | |
| <i>Malacosoma americana</i> (Fabricius, 1793) | p | SK MB | |
| <i>Malacosoma californica</i> (Packard, 1864) | G | AB SK MB | |
| Subfamily Macromphaliinae | | | |
| <i>Tolype laricis</i> (Fitch, 1856) | p | U SK MB | |
| Superfamily Bombycoidea | | | |
| Family Saturniidae | | | |
| Subfamily Ceratocampinae | | | |
| <i>Anisota manitobensis</i> McDunnough, 1921 * | p | P MB | |
| <i>Anisota virginienensis</i> (Drury, 1773) | p | P MB | |
| Subfamily Hemileucinae | | | |
| Tribe Hemileucini | | | |
| <i>Hemileuca nevadensis</i> Stretch, 1872 * | p | AB SK MB | |
| <i>Hemileuca hera</i> (Harris, 1841) * | G | AB SK | |
| <i>Automeris io</i> (Fabricius, 1775) | p | MB | |
| Subfamily Saturniinae | | | |
| Tribe Saturniini | | | |
| <i>Antheraea polyphemus</i> (Cramer, 1776) | p | AB SK MB | |
| <i>Actias luna</i> (Linnaeus, 1758) | p | AB SK MB | |
| Tribe Attacini | | | |
| <i>Callosamia promethea</i> (Drury, 1773) | p | MB | |
| <i>Hyalophora cecropia</i> (Linnaeus, 1758) | G | AB SK MB | |
| <i>Hyalophora columbia</i> (Smith, 1865) | G | MB | |
| <i>Hyalophora gloveri</i> (Strecker, 1872) | G | AB SK MB | |
| Family Sphingidae | | | |
| Subfamily Sphinginae | | | |
| Tribe Sphingini | | | |
| <i>Manduca quinquemaculata</i> (Haworth, 1803) | p | P SK MB | |
| <i>Ceratomia amyntor</i> (Geyer, 1835) | G | AB SK MB | |
| <i>Ceratomia undulosa</i> (Walker, 1856) | p | AB SK MB | |
| <i>Sphinx chersis</i> (Hübner, 1823) | G | AB SK MB | |
| <i>Sphinx vashti</i> Strecker, 1878 | G | AB SK MB | |
| <i>Sphinx kalmiae</i> Smith, 1797 | p | SK MB | |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| <i>Sphinx gordius</i> Cramer, 1780 | G | P SK MB | |
| <i>Sphinx luscitiosa</i> Clemens, 1859 | p | AB SK MB | |
| <i>Sphinx drupiferarum</i> Smith, 1797 | p | AB SK MB | |
| <i>Lapara bombycoides</i> Walker, 1856 | p | AB SK MB | |
| Subfamily Smerinthinae | | | |
| Tribe Smerinthini | | | |
| <i>Smerinthus jamaicensis</i> (Drury, 1773) | p | AB SK MB | |
| <i>Smerinthus cerisyi</i> Kirby, 1837 | p | AB SK MB | |
| <i>Smerinthus ophthalmica</i> Boisduval, 1855 | G | AB | |
| <i>Paonias excaecata</i> (Smith, 1797) | p | AB SK MB | |
| <i>Paonias myops</i> (Smith, 1797) | p | AB SK MB | |
| <i>Amorpha juglandis</i> (Smith, 1797) | p | MB | |
| <i>Pachysphinx modesta</i> (Harris, 1839) | p | AB SK MB | |
| <i>Pachysphinx occidentalis</i> (Edwards, 1875) | G | AB SK MB | |
| Subfamily Macroglossinae | | | |
| Tribe Dilophonotini | | | |
| <i>Hemaris thysbe</i> (Fabricius, 1775) | p | AB SK MB | |
| <i>Hemaris gracilis</i> (Grote & Robinson, 1865) | p | AB SK MB | |
| <i>Hemaris diffinis</i> (Boisduval, 1836) | G | AB SK MB | |
| Tribe Philampelini | | | |
| <i>Eumorpha achemon</i> (Drury, 1773) | p | MB | |
| <i>Eumorpha labruscae</i> (Linnaeus, 1758) | p | S S | |
| Tribe Macroglossini | | | |
| <i>Amphion floridensis</i> Clark, 1920 | p | S S | |
| <i>Proserpinus juanita</i> (Strecker, 1877) * | G | AB SK MB | |
| <i>Proserpinus clarkiae</i> (Boisduval, 1852) | G | U | |
| <i>Proserpinus flavofasciata</i> (Walker, 1856) | p | AB SK MB | |
| <i>Darapsa myron</i> (Cramer, 1780) | p | MB | |
| <i>Hyles euphorbiae</i> (Linnaeus, 1758) | G | AB SK MB | I |
| <i>Hyles gallii</i> (Rottemburg, 1775) | p | AB SK MB | |
| <i>Hyles lineata</i> (Fabricius, 1775) | p | M M M | |
| Superfamily Geometroidea | | | |
| Family Uraniidae | | | |
| Subfamily Epipleminae | | | |
| <i>Callizzia amorata</i> Packard, 1876 | p | AB SK MB | |
| Family Geometridae | | | |
| Subfamily Larentiinae | | | |
| Tribe Cidariini | | | |
| <i>Dysstroma citrata</i> (Linnaeus, 1761) | p | AB SK MB | |
| <i>Dysstroma truncata</i> (Hufnagel, 1767) | p | AB SK MB | |
| <i>Dysstroma walkerata</i> (Pearsall, 1909) | p | AB SK MB | |
| <i>Dysstroma hersiliata</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Dysstroma rutlandia</i> McDunnough, 1943 * | p | AB SK | |
| <i>Dysstroma formosa</i> (Hulst, 1896) | p | AB SK U | |
| <i>Dysstroma brunneata</i> (Packard, 1867) | p | AB SK P | |
| <i>Eulithis gracilineata</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Eulithis propulsata</i> (Walker, 1862) | p | AB SK MB | |
| <i>Eulithis testata</i> (Linnaeus, 1761) | p | AB SK MB | |
| <i>Eulithis destinata</i> (Möschler, 1860) | p | AB SK MB | |
| <i>Eulithis flavibrunneata</i> (McDunnough, 1943) | p | AB SK MB | |
| <i>Eulithis explanata</i> (Walker, 1862) | p | AB SK MB | |
| <i>Eulithis xylina</i> (Hulst, 1896) | p | AB SK MB | |
| <i>Eulithis serrataria</i> (Barnes & McDunnough, 1917) | p | MB | |
| <i>Antepirrhoe semiatrata</i> (Hulst, 1881) | p | AB SK MB | |
| <i>Ecliptopera silaceata</i> ([Denis & Schiffermüller], 1775) | p | AB SK MB | |
| <i>Plemyria georgii</i> Hulst, 1896 | p | AB SK MB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| <i>Thera juniperata</i> (Linnaeus, 1758) | p | AB SK | I |
| <i>Thera contractata</i> (Packard, 1873) | p | | MB |
| <i>Thera otisi</i> (Dyar, 1904) | p | AB | |
| Tribe Hydrimenini | | | |
| <i>Hydriomena perfracta</i> Swett, 1910 | p | AB SK MB | |
| <i>Hydriomena divisaria</i> (Walker, 1860) | p | AB SK MB | |
| <i>Hydriomena renunciata</i> (Walker, 1862) | p | AB SK MB | |
| <i>Hydriomena transfigurata</i> Swett, 1912 | p | | MB |
| <i>Hydriomena ruberata</i> (Freyer, [1831]) | p | AB SK MB | |
| <i>Hydriomena furcata</i> (Thunberg, 1784) | p | AB SK MB | |
| <i>Hydriomena morosata</i> Barnes & McDunnough, 1917 * | p | AB | |
| <i>Triphosa haesitata</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Rheumaptera undulata</i> (Linnaeus, 1758) | p | AB SK MB | |
| <i>Rheumaptera hastata</i> (Linnaeus, 1758) | p | AB SK MB | |
| <i>Rheumaptera subhastata</i> (Nolcken, 1870) | p | AB SK MB | |
| <i>Mesoleuca ruficillata</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Mesoleuca gratulata</i> (Walker, 1862) | p | AB | |
| <i>Spargania magnoliata</i> Guenée, [1858] | p | AB SK MB | |
| <i>Spargania luctuata</i> ([Denis & Schiffermüller], 1775) | p | AB SK MB | |
| <i>Perizoma basaliata</i> (Walker, 1862) | p | AB SK MB | |
| <i>Perizoma custodiata</i> (Guenée, [1858]) | G | AB SK | |
| <i>Anticlea vasiliata</i> Guenée, [1858] | p | AB SK MB | |
| <i>Anticlea multiferata</i> (Walker, 1863) | p | AB SK MB | |
| Tribe Stamnodini | | | |
| <i>Stamnodes topazata</i> (Strecker, 1899) | p | AB SK MB | |
| Tribe Xanthorhoini | | | |
| <i>Xanthorhoe labradorensis</i> (Packard, 1867) | p | AB SK MB | |
| <i>Xanthorhoe packardata</i> McDunnough, 1945 | p | AB SK MB | |
| <i>Xanthorhoe abrasaria</i> (Herrich-Schäffer, [1855]) | p | AB SK MB | |
| <i>Xanthorhoe iduata</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Xanthorhoe ramaria</i> Swett & Cassino, 1920 | p | AB SK | |
| <i>Xanthorhoe decoloraria</i> (Esper, [1806]) | p | AB SK MB | |
| <i>Xanthorhoe ferrugata</i> (Clerck, 1759) | p | AB SK MB | |
| <i>Xanthorhoe lacustrata</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Epirrhoe alternata</i> (Müller, 1764) | p | AB SK MB | |
| <i>Epirrhoe plebeculata</i> (Guenée, [1858]) | p | AB SK | |
| <i>Epirrhoe sperryi</i> Herbulot, 1951 | p | AB SK MB | |
| <i>Euphyia intermediata</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Zenophleps alpinata</i> Cassino, 1927 | p | AB SK MB | |
| <i>Orthonama obstipata</i> (Fabricius, 1794) | p | M M M | |
| <i>Orthonama evansi</i> McDunnough, 1920 | G | AB MB | |
| <i>Costaconvexa centrostrigaria</i> (Wollaston, 1858) | p | P SK MB | |
| Tribe Asthenini | | | |
| <i>Hydrelia condensata</i> (Walker, 1862) | p | | MB |
| <i>Hydrelia albifera</i> (Walker, 1866) | p | AB SK MB | |
| <i>Venusia cambrica</i> Curtis, 1839 | p | AB SK U | |
| <i>Venusia comptaria</i> (Walker, 1860) | p | AB SK MB | |
| <i>Venusia pearsalli</i> (Dyar, 1906) | p | AB SK MB | |
| <i>Trichodezia albovittata</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Minoa murinata</i> (Scopoli, 1763) | G | AB | |
| Tribe Operophterini | | | |
| <i>Epirrita autumnata</i> (Borkhausen, 1794) | p | AB SK MB | |
| <i>Operophtera bruceata</i> (Hulst, 1886) | p | AB SK MB | |
| Tribe Eudulini | | | |
| <i>Eubaphe mendica</i> (Walker, 1854) | p | AB SK MB | |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| Tribe Eupitheciini | | | |
| <i>Horisme intestinata</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Horisme incana</i> Swett, 1918 | G | AB SK MB | |
| <i>Eupithecia palpata</i> Packard, 1873 | p | AB SK MB | |
| <i>Eupithecia columbiata</i> (Dyar, 1904) | p | AB SK MB | |
| <i>Eupithecia interruptofasciata</i> Packard, 1873 | p | AB SK MB | |
| <i>Eupithecia misturata</i> (Hulst, 1896) | p | AB SK MB | |
| <i>Eupithecia pygmaeata</i> (Hübner, [1799]) | p | AB SK MB | |
| <i>Eupithecia coloradensis</i> (Hulst, 1896) | G | AB | |
| <i>Eupithecia regina</i> Taylor, 1906 | G | AB SK MB | |
| <i>Eupithecia borealis</i> (Hulst, 1898) | p | AB SK MB | |
| <i>Eupithecia subfuscata</i> (Haworth, 1809) | G | AB SK MB | |
| <i>Eupithecia tripunctaria</i> Herrich-Schäffer, 1852 | p | AB SK | |
| <i>Eupithecia fletcherata</i> Taylor, 1907 | p | | MB |
| <i>Eupithecia casloata</i> (Dyar, 1904) | p | AB SK | |
| <i>Eupithecia sheppardata</i> McDunnough, 1938 | p | AB SK | |
| <i>Eupithecia satyrata</i> (Hübner, [1813]) | p | AB SK MB | |
| <i>Eupithecia nimbicolor</i> (Hulst, 1896) | p | AB SK MB | |
| <i>Eupithecia cimicifugata</i> Pearsall, 1908 | p | AB SK MB | |
| <i>Eupithecia russeliata</i> Swett, 1908 | p | AB SK U | |
| <i>Eupithecia ammonata</i> McDunnough, 1929 * | G | AB SK MB | |
| <i>Eupithecia cretaceata</i> (Packard, 1874) | p | AB SK MB | |
| <i>Eupithecia behrensata</i> Packard, 1876 | G | AB SK | |
| <i>Eupithecia gelidata</i> Möschler, 1860 | p | AB SK MB | |
| <i>Eupithecia multistrigata</i> (Hulst, 1896) | p | AB SK | |
| <i>Eupithecia perfusca</i> (Hulst, 1898) | p | AB SK MB | |
| <i>Eupithecia annulata</i> (Hulst, 1896) | p | AB SK MB | |
| <i>Eupithecia lachrymosa</i> (Hulst, 1900) | G | AB SK | |
| <i>Eupithecia lafontaineata</i> Bolte, 1990 | p | AB P | |
| <i>Eupithecia lariciata</i> (Freyer, 1841) | p | AB SK MB | |
| <i>Eupithecia niphadophilata</i> (Dyar, 1904) | p | AB | |
| <i>Eupithecia assimilata</i> Doubleday, 1856 | p | AB SK MB | |
| <i>Eupithecia stellata</i> (Hulst, 1896) * | G | AB SK MB | |
| <i>Eupithecia albicapitata</i> Packard, 1876 | p | AB SK MB | |
| <i>Eupithecia mutata</i> Pearsall, 1908 | p | AB SK | |
| <i>Eupithecia absinthiata</i> (Clerck, 1759) | p | AB SK MB | |
| <i>Eupithecia anticaria</i> Walker, 1862 | p | AB SK MB | |
| <i>Eupithecia ravocostaliata</i> Packard, 1876 | p | AB SK MB | |
| Tribe Lobophorini | | | |
| <i>Carsia sororiata</i> (Hübner, [1813]) | p | AB SK MB | |
| <i>Acasis viridata</i> (Packard, 1873) | p | AB | MB |
| <i>Cladara limitaria</i> (Walker, 1860) | p | AB SK MB | |
| <i>Cladara atroliturata</i> (Walker, [1863]) | p | AB SK U | |
| <i>Lobophora nivigerata</i> Walker, 1862 | p | AB SK MB | |
| <i>Lobophora magnoliatoidata</i> (Dyar, 1904) | p | AB | |
| Subfamily Sterrhinae | | | |
| Tribe Sterrhini | | | |
| <i>Idaea occidentaria</i> (Packard, 1874) * | G | AB | |
| <i>Idaea rotundopennata</i> (Packard, 1876) | p | AB SK MB | |
| Tribe Cosymbiini | | | |
| <i>Cyclophora pendulinaria</i> (Guenée, [1858]) | p | AB SK MB | |
| Tribe Timandrini | | | |
| <i>Haematopsis grataria</i> (Fabricius, 1798) | G | AB SK MB | |
| Tribe Scopulini | | | |
| <i>Scopula cacuminaria</i> (Morrison, 1874) | p | AB SK MB | |
| <i>Scopula limboundata</i> (Haworth, 1809) | p | AB SK MB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| <i>Scopula ancellata</i> (Hulst, 1887) | p | AB SK MB | |
| <i>Scopula fuscata</i> (Hulst, 1887) | p | AB U | |
| <i>Scopula junctaria</i> (Walker, 1861) | G | AB SK MB | |
| <i>Scopula quinquelinearia</i> (Packard, 1871) | p | AB | |
| <i>Scopula frigidaria</i> (Möschler, 1860) | p | AB SK MB | |
| <i>Scopula inductata</i> (Guenée, [1858]) | G | AB SK MB | |
| <i>Scopula luteolata</i> (Hulst, 1880) | p | AB | |
| <i>Scopula sentinaria</i> (Geyer, 1837) | G | AB SK MB | |
| <i>Leptostales ferruminaria</i> (Zeller, 1872) | G | AB SK MB | |
| Subfamily Geometrinae | | | |
| Tribe Nemoriini | | | |
| <i>Nemoria unitaria</i> (Packard, 1873) | G | AB SK | |
| <i>Nemoria mimosaria</i> (Guenée, [1858]) | G | AB SK MB | |
| <i>Dichorda rectaria</i> (Grote, 1877) * | G | AB P | |
| Tribe Synchlorigini | | | |
| <i>Synchlora aerata</i> (Fabricius, 1798) | G | AB SK MB | |
| <i>Synchlora bistrifaria</i> (Packard, 1876) | G | AB SK U | |
| Tribe Hemitheini | | | |
| <i>Chlorochlamys chloroleucaria</i> (Guenée, [1858]) | p | SK MB | |
| <i>Hethemia pistasciaria</i> (Guenée, [1858]) | p | MB | |
| <i>Mesothea incertata</i> (Walker, [1863]) | p | AB SK MB | |
| Subfamily Archiearinae | | | |
| <i>Archiearis infans</i> (Möschler, 1862) | p | AB SK MB | |
| <i>Leucobrephephos brephoides</i> (Walker, 1857) | p | AB SK MB | |
| Subfamily Ennominae | | | |
| Tribe Alsophilini | | | |
| <i>Alsophila pomataria</i> (Harris, 1841) | G | AB SK MB | |
| Tribe Cassymini | | | |
| <i>Nematocampa resistaria</i> (Herrich-Schäffer, [1856]) | p | AB SK MB | |
| <i>Protitame virginalis</i> (Hulst, 1900) | p | AB SK MB | |
| <i>Protitame subalbaria</i> (Packard, 1873) | p | AB | |
| Tribe Macariini | | | |
| <i>Eumacaria madopata</i> (Guenée, [1858]) | G | AB SK MB | |
| <i>Speranza brunneata</i> (Thunberg, 1784) | p | AB SK MB | |
| <i>Speranza sulphurea</i> (Packard, 1873) | p | MB | |
| <i>Speranza amboflava</i> (Ferguson, 1953) | p | AB SK MB | |
| <i>Speranza exauspicata</i> (Walker, 1861) | p | AB SK MB | |
| <i>Speranza coortaria</i> (Hulst, 1887) | p | AB SK MB | |
| <i>Speranza hesperata</i> Ferguson, 2008 | G | AB | |
| <i>Speranza bitactata</i> (Walker, 1862) | p | AB SK MB | |
| <i>Speranza decorata</i> (Hulst, 1896) | p | AB U | |
| <i>Speranza occiduaria</i> (Packard, 1874) | p | AB SK MB | |
| <i>Speranza helena</i> (Cassino, 1928) * | G | AB | |
| <i>Speranza ribearia</i> (Fitch, 1848) | G | AB SK MB | |
| <i>Speranza loricaria</i> (Eversmann, 1837) | p | AB SK MB | |
| <i>Speranza pustularia</i> (Guenée, [1858]) | p | SK MB | |
| <i>Speranza quadrilinearia</i> (Packard, 1873) | G | AB U | |
| <i>Epelis truncataria</i> (Walker, 1862) | p | AB SK MB | |
| <i>Macaria notata</i> (Linnaeus, 1758) | p | AB SK MB | |
| <i>Macaria aemulataria</i> Walker, 1861 | p | AB SK MB | |
| <i>Macaria sexmaculata</i> Packard, 1867 | p | AB SK MB | |
| <i>Macaria signaria</i> (Hübner, [1809]) | p | AB SK MB | |
| <i>Macaria oweni</i> (Swett, 1907) | p | AB SK MB | |
| <i>Digrammia californiaria</i> (Packard, 1871) | G | AB SK | |
| <i>Digrammia ubiquitousa</i> Ferguson, 2008 | p | MB | |
| <i>Digrammia denticulata</i> (Grote, 1883) | G | AB SK MB | |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| <i>Digrammia curvata</i> (Grote, 1880) | G | AB SK | |
| <i>Digrammia sublacteolata</i> (Hulst, 1887) * | G | | MB |
| <i>Digrammia eremiata</i> (Guenée, [1858]) * | G | | MB |
| <i>Digrammia equivocata</i> Ferguson, 2008 * | G | | MB |
| <i>Digrammia rippertaria</i> (Duponchel, 1830) | p | AB SK MB | |
| <i>Digrammia decorata</i> (Grossbeck, 1907) | G | AB SK MB | |
| <i>Digrammia mellistrigata</i> (Grote, 1873) | p | AB SK MB | |
| <i>Digrammia subminiata</i> (Packard, 1873) | G | AB SK MB | |
| <i>Digrammia neptaria</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Digrammia irrorata</i> (Packard, 1876) | G | AB SK | |
| <i>Fernaldella fimetaria</i> (Grote & Robinson, 1870) | G | AB SK | |
| Tribe Boarmiini | | | |
| <i>Hesperumia sulphuraria</i> Packard, 1873 | p | AB SK MB | |
| <i>Ematurga amitaria</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Stenoporpia polygrammaria</i> (Packard, 1876) | p | SK MB | |
| <i>Aethalura intertexta</i> (Walker, 1860) | p | AB SK MB | |
| <i>Iridopsis vellivolata</i> (Hulst, 1881) | p | P SK MB | |
| <i>Iridopsis ephyraria</i> (Walker, 1860) | G | AB SK MB | |
| <i>Iridopsis humaria</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Iridopsis larvaria</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Anavitrinella pampinaria</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Cleora projecta</i> (Walker, 1860) | p | | MB |
| <i>Ectopis crepuscularia</i> ([Denis & Schiffermüller], 1775) | p | AB SK MB | |
| <i>Protoboarmia porcelaria</i> (Guenée, [1858]) | p | AB SK MB | |
| Tribe Melanolophiini | | | |
| <i>Melanolophia canadaria</i> (Guenée, [1858]) | p | | SK MB |
| <i>Melanolophia signataria</i> (Walker, 1860) | p | P SK MB | |
| <i>Eufidonia convergaria</i> (Walker, 1860) | p | AB SK MB | |
| <i>Eufidonia notataria</i> (Walker, 1860) | p | | SK MB |
| <i>Eufidonia discospilata</i> (Walker, 1862) | p | AB SK MB | |
| Tribe Bistonini | | | |
| <i>Biston betularia</i> (Linnaeus, 1758) | p | AB SK MB | |
| <i>Lycia ursaria</i> (Walker, 1860) | p | AB SK MB | |
| <i>Lycia rachelae</i> (Hulst, 1896) | p | AB SK MB | |
| <i>Hypagyrtis unipunctata</i> (Haworth, 1809) | p | AB SK MB | |
| <i>Hypagyrtis piniata</i> (Packard, 1870) | p | AB SK MB | |
| <i>Phigalia titea</i> (Cramer, [1780]) | G | AB SK MB | |
| <i>Paleacrita vernata</i> (Peck, 1795) | G | AB SK MB | |
| <i>Erannis tiliaria</i> (Harris, 1841) | p | AB SK MB | |
| Tribe Baptini | | | |
| <i>Lomographa semiclarata</i> (Walker, 1866) | p | AB SK MB | |
| <i>Lomographa vestaliata</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Lomographa glomeraria</i> (Grote, 1881) | p | | MB |
| Tribe Caberini | | | |
| <i>Cabera exanthemata</i> (Scopoli, 1763) | p | AB SK | U |
| <i>Cabera erythemaria</i> Guenée, [1858] | p | AB SK MB | |
| <i>Cabera variolaria</i> Guenée, [1858] | p | AB SK MB | |
| <i>Cabera borealis</i> (Hulst, 1896) | p | AB SK MB | |
| <i>Drepanulatrix unicalcararia</i> (Guenée, [1858]) | p | AB | |
| <i>Erastria cruentaria</i> (Hübner, [1799]) | p | | MB |
| Tribe Angeronini | | | |
| <i>Aspitates aberrata</i> (Edwards, 1884) * | G | AB SK MB | |
| <i>Euchlaena obtusaria</i> (Hübner, [1813]) | G | AB SK MB | |
| <i>Euchlaena effecta</i> (Walker, 1860) | p | | SK MB |
| <i>Euchlaena johnsonaria</i> (Fitch, 1869) | p | AB SK MB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| <i>Euchlaena madusaria</i> (Walker, 1860) | p | AB SK MB | |
| <i>Euchlaena marginaria</i> (Minot, 1869) | p | AB SK MB | |
| <i>Euchlaena tigrinaria</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Euchlaena irraria</i> (Barnes & McDunnough, 1917) | G | P SK MB | |
| <i>Xanthotype urticaria</i> Swett, 1918 | p | AB SK MB | |
| <i>Xanthotype sospeta</i> (Drury, 1773) | p | AB SK MB | |
| Tribe Azelinini | | | |
| <i>Pero honestaria</i> (Walker, 1860) | p | AB SK MB | |
| <i>Pero morrisonaria</i> (Edwards, 1881) | p | AB SK MB | |
| Tribe Nacophorini | | | |
| <i>Phaeoura quernaria</i> (Smith, 1797) | p | AB SK MB | |
| <i>Animomyia hardwicki</i> Rindge, 1974 * | G | P SK | |
| Tribe Campaeini | | | |
| <i>Campaea perlata</i> (Guenée, [1858]) | p | AB SK MB | |
| Tribe Ennomini | | | |
| <i>Ennomos magnaria</i> Guenée, [1858] | p | AB SK MB | |
| <i>Ennomos subsignaria</i> (Hübner, [1823]) | G | AB SK MB | |
| Tribe Epirranthini | | | |
| <i>Spodolepis substriataria</i> Hulst, 1896 | p | AB SK U | |
| Tribe Lithinini | | | |
| <i>Tacparia detersata</i> (Guenée, [1858]) | p | U SK MB | |
| <i>Homochlodes fritillaria</i> (Guenée, [1858]) | p | SK MB | |
| <i>Homochlodes disconventa</i> (Walker, 1860) | p | MB | |
| Tribe Anagogini | | | |
| <i>Selenia alciphearia</i> Walker, 1860 | p | AB SK MB | |
| <i>Selenia kentaria</i> (Grote & Robinson, 1867) | p | AB SK MB | |
| <i>Metanema inatomaria</i> Guenée, [1858] | p | AB SK MB | |
| <i>Metanema determinata</i> Walker, 1866 | p | AB SK MB | |
| <i>Metarranthis duaria</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Metarranthis indeclinata</i> (Walker, 1861) | p | MB | |
| <i>Metarranthis refractaria</i> (Guenée, [1858]) | p | MB | |
| <i>Metarranthis warneri</i> (Harvey, 1874) | p | AB SK MB | |
| <i>Cepphis decoloraria</i> (Hulst, 1886) | p | MB | |
| <i>Cepphis armataria</i> (Herrich-Schäffer, [1855]) | p | MB | |
| <i>Probole alienaria</i> Herrich-Schäffer, [1855] | p | AB SK MB | |
| <i>Probole amicarica</i> (Herrich-Schäffer, [1855]) | p | AB SK MB | |
| <i>Plagodis serinaria</i> Herrich-Schäffer, [1855] | p | P SK MB | |
| <i>Plagodis phlogosaria</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Plagodis pulveraria</i> (Linnaeus, 1758) | p | AB SK MB | |
| <i>Plagodis alcoolaria</i> (Guenée, [1858]) | p | AB SK MB | |
| Tribe Ourapterygini | | | |
| <i>Neoterpes trianguliferata</i> (Packard, 1871) | p | AB SK | |
| <i>Caripeta divisata</i> Walker, [1863] | p | AB SK MB | |
| <i>Caripeta piniata</i> (Packard, 1870) | p | SK MB | |
| <i>Caripeta angustiorata</i> Walker, [1863] | p | AB SK MB | |
| <i>Meris patula</i> Rindge, 1981 * | G | AB | |
| <i>Besma quercivoraria</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Lambdina fiscellaria</i> (Guenée, [1858]) | p | AB SK MB | |
| <i>Lambdina fervidaria</i> (Hübner, [1831]) | p | SK MB | |
| <i>Cingilia catenaria</i> (Drury, 1773) | p | AB SK MB | |
| <i>Nepytia canosaria</i> (Walker, [1863]) | p | AB SK MB | |
| <i>Sicya macularia</i> (Harris, 1850) | p | AB SK MB | |
| <i>Plataea trilinearia</i> (Packard, 1873) | G | AB SK | |
| <i>Tetracis crocallata</i> Guenée, [1858] | p | AB SK MB | |
| <i>Tetracis cachexiata</i> Guenée, [1858] | p | AB SK MB | |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| <i>Tetracis jubararia</i> Hulst, 1886 | p | AB SK U | |
| <i>Tetracis formosa</i> (Hulst, 1896) | G | AB | |
| <i>Eugonobapta nivosaria</i> (Guenée, [1858]) | p | | MB |
| <i>Eutrapela clemataria</i> (Smith, 1797) | p | P SK MB | |
| <i>Prochoerodes lineola</i> (Goeze, 1781) | p | AB SK MB | |
| <i>Antepione thisoaria</i> (Guenée, [1858]) | p | SK MB | |
| Superfamily Noctuoidea | | | |
| Family Notodontidae | | | |
| Subfamily Pygaerinae | | | |
| <i>Clostera albosigma</i> Fitch, 1856 | p | AB SK MB | |
| <i>Clostera strigosa</i> (Grote, 1882) | p | AB SK MB | |
| <i>Clostera brucei</i> (Edwards, 1885) | p | AB SK MB | |
| <i>Clostera apicalis</i> (Walker, 1855) | p | AB SK MB | |
| Subfamily Notodontinae | | | |
| Tribe Notodontini | | | |
| <i>Hyperaeschra georgica</i> (Herrich-Schäffer, 1855) | p | P MB | |
| <i>Pheosia rimosa</i> Packard, 1864 | p | AB SK MB | |
| <i>Odontosia elegans</i> (Strecker, 1885) | p | AB SK MB | |
| <i>Notodonta scitipennis</i> Walker, 1862 | p | AB SK MB | |
| <i>Notodonta torva</i> (Hübner, 1803) | p | AB SK MB | |
| <i>Nerice bidentata</i> Walker, 1855 | p | SK MB | |
| Tribe Dicranurini | | | |
| <i>Gluphisia septentrionis</i> Walker, 1855 | p | AB SK MB | |
| <i>Gluphisia avimacula</i> Hudson, 1891 | p | AB SK MB | |
| <i>Gluphisia lintneri</i> (Grote, 1877) | p | AB SK MB | |
| <i>Furcula cinerea</i> (Walker, 1865) | p | AB SK MB | |
| <i>Furcula occidentalis</i> (Lintner, 1878) | p | AB SK MB | |
| <i>Furcula scolopendrina</i> (Boisduval, 1869) | p | AB SK MB | |
| <i>Furcula modesta</i> (Hudson, 1891) | p | AB SK MB | |
| <i>Cerura scitiscrita</i> Walker, 1865 | p | AB SK MB | |
| Subfamily Phalerinae | | | |
| <i>Datana ministra</i> (Drury, 1773) | p | P SK MB | |
| <i>Nadata gibbosa</i> (Smith, 1797) | p | AB SK MB | |
| <i>Peridea angulosa</i> (Smith, 1797) | p | SK MB | |
| <i>Peridea ferruginea</i> (Packard, 1864) | p | SK MB | |
| Subfamily Heterocampinae | | | |
| <i>Macrurocampa marthesia</i> (Cramer, [1780]) | p | | MB |
| <i>Heterocampa obliqua</i> Packard, 1864 | p | | MB |
| <i>Heterocampa umbrata</i> Walker, 1855 | p | SK MB | |
| <i>Heterocampa guttivitta</i> (Walker, 1855) | p | P SK MB | |
| <i>Heterocampa biundata</i> Walker, 1855 | p | | MB |
| <i>Lochmaeus manteo</i> Doubleday, 1841 | p | | MB |
| <i>Lochmaeus bilineata</i> (Packard, 1864) | p | SK MB | |
| <i>Schizura ipomoeae</i> Doubleday, 1841 | p | AB SK MB | |
| <i>Schizura badia</i> (Packard, 1864) | p | SK MB | |
| <i>Schizura unicornis</i> (Smith, 1797) | p | AB SK MB | |
| <i>Schizura concinna</i> (Smith, 1797) | p | P SK MB | |
| <i>Schizura leptinoides</i> (Grote, 1864) | p | AB SK MB | |
| <i>Oligocentria semirufescens</i> (Walker, 1865) | p | AB SK MB | |
| <i>Oligocentria lignicolor</i> (Walker, 1855) | p | SK MB | |
| Subfamily Nystaleinae | | | |
| <i>Symmerista canicosta</i> Franclemont, 1946 | p | SK MB | |
| <i>Dasylophia anguina</i> (Smith, 1797) | G | AB SK MB | |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| Family Erebiidae | | | |
| Subfamily Lymantriinae | | | |
| Tribe Orgyiini | | | |
| Subtribe Orgyiina | | | |
| <i>Dasychira dorsipennata</i> (Barnes & McDunnough, 1919) | p | U SK MB | |
| <i>Dasychira vagans</i> (Barnes & McDunnough, 1913) | p | AB SK MB | |
| <i>Dasychira plagiata</i> (Walker, 1865) | p | | MB |
| <i>Dasychira griseifecta</i> (Dyar, 1911) | p | AB | |
| <i>Orgyia antiqua</i> (Linnaeus, 1758) | p | AB SK MB | |
| <i>Orgyia leucostigma</i> (Smith, 1797) | p | U SK MB | |
| Tribe Leucomini | | | |
| Subtribe Leucomina | | | |
| <i>Leucoma salicis</i> (Linnaeus, 1758) | p | AB | I |
| Subfamily Arctiinae | | | |
| Tribe Lithosiini | | | |
| Subtribe Cisthenina | | | |
| <i>Lycomorpha pholus</i> (Drury, 1773) | G | AB SK MB | |
| <i>Hypoprepia miniata</i> (Kirby, 1837) | p | AB SK MB | |
| <i>Hypoprepia fucosa</i> Hübner, [1831] | G | AB SK MB | |
| <i>Clemensia albata</i> Packard, 1864 | p | AB SK MB | |
| Subtribe Lithosiina | | | |
| <i>Eilema bicolor</i> (Grote, 1864) | p | AB SK MB | |
| <i>Crambidia pallida</i> Packard, 1864 | p | | MB |
| <i>Crambidia casta</i> (Packard, 1869) | G | AB SK MB | |
| <i>Crambidia cephalica</i> (Grote & Robinson, 1870) * | G | AB | |
| Tribe Arctiini | | | |
| Subtribe Arctiina | | | |
| <i>Holarctia obliterated</i> (Stretch, 1885) | G | AB SK MB | |
| <i>Grammia doris</i> (Boisduval, 1869) | p | AB SK MB | |
| <i>Grammia phyllira</i> (Drury, 1773) | p | AB SK MB | |
| <i>Grammia virgo</i> (Linnaeus, 1758) | p | AB SK MB | |
| <i>Grammia parthenice</i> (Kirby, 1837) | p | AB SK MB | |
| <i>Grammia virguncula</i> (Kirby, 1837) | p | AB SK MB | |
| <i>Grammia margo</i> Schmidt, 2009 * | p | AB SK MB | |
| <i>Grammia williamsii</i> (Dodge, 1871) | G | AB SK MB | |
| <i>Grammia elongata</i> (Stretch, 1885) | p | AB | |
| <i>Grammia blakei</i> (Grote, 1865) * | G | AB SK MB | |
| <i>Parasemia plantaginis</i> (Linnaeus, 1758) | p | AB SK MB | |
| <i>Platarctia parthenos</i> (Harris, 1850) | p | AB SK MB | |
| <i>Arctia caja</i> (Linnaeus, 1758) | p | AB SK MB | |
| <i>Virbia laeta</i> (Guérin-Méneville, [1832]) | p | P SK MB | |
| <i>Virbia aurantiaca</i> (Hübner, [1831]) | p | AB SK MB | |
| <i>Virbia ferruginosa</i> (Walker, 1854) | p | AB SK MB | |
| Subtribe Spilosomina | | | |
| <i>Spilosoma congrua</i> Walker, 1855 | p | AB SK MB | |
| <i>Spilosoma dubia</i> (Walker, 1855) | p | AB SK MB | |
| <i>Spilosoma vagans</i> (Boisduval, 1852) | p | AB | |
| <i>Spilosoma pteridis</i> Edwards, 1874 | G | P SK MB | |
| <i>Spilosoma virginica</i> (Fabricius, 1798) | p | AB SK MB | |
| <i>Estigmene acrea</i> (Drury, 1773) | G | AB SK MB | |
| <i>Hyphantria cunea</i> (Drury, 1773) | G | AB SK MB | |
| <i>Hypercompe permaculata</i> (Packard, 1872) | G | AB SK | |
| <i>Phragmatobia fuliginosa</i> (Linnaeus, 1758) | G | AB SK MB | |
| <i>Phragmatobia lineata</i> Newman & Donahue, 1966 | G | AB SK MB | |
| <i>Phragmatobia assimilans</i> Walker, 1855 | p | AB SK MB | |
| <i>Pyrrharctia isabella</i> (Smith, 1797) | G | AB SK MB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| Subtribe Callimorphina | | | |
| <i>Dodia tarandus</i> Schmidt & Macaulay, 2009 | p | AB SK MB | |
| <i>Haploa lecontei</i> (Guérin-Méneville, 1832) | p | AB SK MB | |
| <i>Haploa confusa</i> (Lyman, 1887) | p | P SK MB | |
| Subtribe Pericopina | | | |
| <i>Gnophaela vermiculata</i> (Grote, 1864) | G | AB SK MB | |
| Subtribe Phaegopterina | | | |
| <i>Halysidota tessellaris</i> (Smith, 1797) | p | P SK MB | |
| <i>Lophocampa maculata</i> Harris, 1841 | p | AB SK MB | |
| <i>Cycnia tenera</i> Hübner, 1818 | G | AB SK MB | |
| <i>Cycnia oregonensis</i> (Stretch, [1874]) | G | AB SK MB | |
| <i>Pygarctia spraguei</i> (Grote, 1875) * | G | MB | |
| Subtribe Ctenuchina | | | |
| <i>Ctenucha virginica</i> (Esper, 1794) | p | AB SK MB | |
| <i>Cisseps fulvicollis</i> (Hübner, [1818]) | p | AB SK MB | |
| Subfamily Herminiinae | | | |
| <i>Idia americalis</i> (Guenée, 1854) | p | AB SK MB | |
| <i>Idia aemula</i> Hübner, 1814 | p | AB SK MB | |
| <i>Idia concisa</i> of authors, not Walker, 1860 | p | AB SK MB | |
| <i>Idia rotundalis</i> (Walker, 1866) | p | SK MB | |
| <i>Idia julia</i> (Barnes & McDunnough, 1918) | p | P MB | |
| <i>Idia lubricalis</i> (Geyer, 1832) | p | AB SK MB | |
| <i>Idia occidentalis</i> (Smith, 1884) | G | AB U U | |
| <i>Idia immaculalis</i> (Hulst, 1886) * | G | AB SK | |
| <i>Phalaenophana pyramusalis</i> (Walker, 1859) | p | AB SK MB | |
| <i>Zanclognatha theralis</i> (Walker, 1859) | p | MB | |
| <i>Zanclognatha laevigata</i> (Grote, 1872) | p | MB | |
| <i>Zanclognatha pedipilalis</i> (Guenée, 1854) | G | AB P | |
| <i>Zanclognatha jacchusalis</i> (Walker, 1859) | p | AB SK MB | |
| <i>Chytolita morbidalis</i> (Guenée, 1854) | p | AB SK MB | |
| <i>Macrochilo louisiana</i> (Forbes, 1922) | p | AB SK P | |
| <i>Macrochilo bivittata</i> (Grote, 1877) | p | AB SK U | |
| <i>Macrochilo absorptalis</i> (Walker, 1859) | G | P SK MB | |
| <i>Macrochilo orciferalis</i> (Walker, 1859) | p | SK MB | |
| <i>Phalaenostola metonalis</i> (Walker, 1859) | p | AB SK MB | |
| <i>Phalaenostola hanhami</i> (Smith, 1899) | p | AB SK MB | |
| <i>Bleptina caradrinalis</i> Guenée, 1854 | G | AB SK MB | |
| <i>Renia flavipunctalis</i> (Geyer, 1832) | G | P SK MB | |
| <i>Palthis angulalis</i> (Hübner, 1796) | p | AB SK MB | |
| Subfamily Pangraptinae | | | |
| <i>Pangrapta decoralis</i> Hübner, 1818 | p | AB SK MB | |
| Subfamily Hypeninae | | | |
| <i>Hypena bijugalis</i> Walker, 1859 | p | AB SK MB | |
| <i>Hypena palparia</i> Walker, 1861 | p | AB SK MB | |
| <i>Hypena abalienalis</i> Walker, 1859 | p | SK MB | |
| <i>Hypena deceptalis</i> Walker, 1859 | p | AB SK U | |
| <i>Hypena sordidula</i> Grote, 1872 | p | P MB | |
| <i>Hypena atomaria</i> (Smith, 1903) | p | AB SK MB | |
| <i>Hypena edictalis</i> Walker, 1859 | p | AB SK MB | |
| <i>Hypena humuli</i> Harris, 1841 | p | AB SK MB | |
| <i>Hypena californica</i> Behr, 1870 | p | AB SK | |
| <i>Hypena scabra</i> (Fabricius, 1798) | p | AB SK MB | |
| <i>Hypena eductalis</i> Walker, [1859] | p | AB SK MB | |
| Subfamily Rivulinae | | | |
| <i>Rivula propinqualis</i> Guenée, 1854 | p | AB SK MB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| Subfamily Scoliopteryginae | | | |
| Tribe Scoliopterygini | | | |
| <i>Scoliopteryx libatrix</i> (Linnaeus, 1758) | G | AB SK MB | |
| Tribe Anomini | | | |
| <i>Alabama argillacea</i> (Hübner, 1823) | p | | MB |
| Subfamily Calpinae | | | |
| Tribe Calpini | | | |
| <i>Calyptra canadensis</i> (Bethune, 1865) | p | SK MB | |
| Subfamily Hypenodinae | | | |
| <i>Hypenodes fractilinea</i> (Smith, 1908) | p | AB SK | |
| <i>Hypenodes sombrus</i> Ferguson, 1954 | p | AB P MB | |
| Subfamily Boletobinae | | | |
| Tribe Boletobiini | | | |
| <i>Mycterophora inexplicata</i> (Walker, [1863]) | p | AB SK MB | |
| <i>Metalectra quadrisignata</i> (Walker, [1858]) | p | | MB |
| Tribe Phytometrini | | | |
| <i>Spargaloma sexpunctata</i> Grote, 1873 | p | AB SK MB | |
| Subfamily Toxocampinae | | | |
| <i>Tathorhynchus exsiccata</i> (Lederer, 1855) * | G | AB SK MB | |
| Subfamily Erebininae | | | |
| Tribe Thermesiini | | | |
| <i>Thysania zenobia</i> (Cramer, [1777]) | p | | S S |
| <i>Ascalapha odorata</i> (Linnaeus, 1758) | p | S S | S |
| Tribe Catocalini | | | |
| <i>Catocala antinympha</i> (Hübner, 1823) | p | SK | |
| <i>Catocala ilia</i> (Cramer, [1775]) | p | SK MB | |
| <i>Catocala cerogama</i> Guenée, 1852 | p | SK MB | |
| <i>Catocala relictata</i> Walker, [1858] | G | AB SK MB | |
| <i>Catocala unijuga</i> Walker, [1858] | p | AB SK MB | |
| <i>Catocala parta</i> Guenée, 1852 | G | AB SK MB | |
| <i>Catocala luciana</i> Strecker, 1874 * | G | AB SK MB | |
| <i>Catocala hermia</i> Edwards, 1880 * | G | AB SK U | |
| <i>Catocala briseis</i> Edwards, 1864 | G | AB SK MB | |
| <i>Catocala semirelictata</i> Grote, 1874 | G | AB SK MB | |
| <i>Catocala meskei</i> Grote, 1873 | G | AB SK MB | |
| <i>Catocala junctura</i> Walker, [1858] | G | AB U U | |
| <i>Catocala concumbens</i> Walker, [1858] | G | AB SK MB | |
| <i>Catocala whitneyi</i> Dodge, 1874 * | p | | MB |
| <i>Catocala sordida</i> Grote, 1877 | p | P SK MB | |
| <i>Catocala coccinata</i> Grote, 1872 | p | SK MB | |
| <i>Catocala ultronia</i> (Hübner, 1823) | G | AB SK MB | |
| <i>Catocala mira</i> Grote, 1876 | p | | MB |
| <i>Catocala praeclara</i> Grote & Robinson, 1866 | G | AB SK MB | |
| <i>Catocala blandula</i> Hulst, 1884 | G | AB SK MB | |
| <i>Catocala clintonii</i> Grote, 1864 | p | P MB | |
| <i>Catocala micronympha</i> Guenée, 1852 | p | P MB | |
| Tribe Melipotini | | | |
| <i>Melipotis perpendicularis</i> (Guenée, 1852) | p | | MB |
| <i>Melipotis jucunda</i> Hübner, 1818 | G | AB SK MB | |
| <i>Bulia deducta</i> (Morrison, 1875) | p | AB SK MB | |
| <i>Drasteria pallescens</i> (Grote & Robinson, 1866) * | G | AB SK | |
| <i>Drasteria petricola</i> (Walker, 1858) | G | AB SK MB | |
| <i>Drasteria hudsonica</i> (Grote & Robinson, 1865) | G | AB SK MB | |
| <i>Drasteria perplexa</i> (Edwards, 1884) * | G | AB SK | |
| <i>Drasteria adumbrata</i> (Behr, 1870) | p | AB SK MB | |
| <i>Drasteria howlandii</i> (Grote, 1865) | G | AB SK | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| Tribe Euclidiini | | | |
| <i>Caenurgina annexa</i> (Edwards, 1890) | G | AB | |
| <i>Caenurgina crassiuscula</i> (Haworth, 1809) | G | AB SK MB | |
| <i>Caenurgina erechtea</i> (Cramer, [1780]) | G | AB SK MB | |
| <i>Euclidia cuspidata</i> (Hübner, 1818) | G | AB SK MB | |
| Tribe Poaphilini | | | |
| <i>Argyrostromis anilis</i> (Drury, 1773) | G | SK MB | |
| Tribe Omopterini | | | |
| <i>Zale lunata</i> (Drury, 1773) | G | P P MB | |
| <i>Zale galbanata</i> (Morrison, 1876) | G | AB SK MB | |
| <i>Zale minerea</i> (Guenée, 1852) | G | AB SK MB | |
| <i>Zale submediana</i> Strand, 1917 | p | SK MB | |
| <i>Zale duplicata</i> (Bethune, 1865) | p | AB SK MB | |
| <i>Zale helata</i> (Smith, 1908) | p | MB | |
| <i>Zale metatoides</i> McDunnough, 1943 | p | SK MB | |
| <i>Zale unilineata</i> (Grote, 1876) | p | MB | |
| <i>Zale horrida</i> Hübner, 1819 | p | MB | |
| Family Euteliidae | | | |
| Subfamily Euteliinae | | | |
| <i>Marathyssa inficita</i> (Walker, 1865) | G | AB U MB | |
| <i>Paectes oculatrix</i> (Guenée, 1852) | p | SK MB | |
| Family Nolidae | | | |
| Subfamily Nolinae | | | |
| <i>Meganola minuscula</i> (Zeller, 1872) | p | SK MB | |
| <i>Nola cilicoides</i> (Grote, 1873) | p | AB SK MB | |
| Subfamily Chloephorinae | | | |
| Tribe Sarrothripini | | | |
| <i>Nycteola frigidana</i> (Walker, 1863) | p | AB SK MB | |
| <i>Nycteola cinereana</i> Neumögen & Dyar, 1893 | p | AB SK MB | |
| Subfamily Risobinae | | | |
| <i>Baileya doubledayi</i> (Guenée, 1852) | p | P SK MB | |
| <i>Baileya ophthalmica</i> (Guenée, 1852) | p | AB SK U | |
| Family Noctuidae | | | |
| Subfamily Plusiinae | | | |
| Tribe Abrostolini | | | |
| <i>Abrostola urentis</i> Guenée, 1852 | G | AB SK MB | |
| Tribe Argyrogrammatini | | | |
| <i>Trichoplusia ni</i> (Hübner, [1803]) | G | M M M | |
| Tribe Plusiini | | | |
| Subtribe Autoplusiina | | | |
| <i>Rachiplusia ou</i> (Guenée, 1852) | p | P MB | |
| Subtribe Euchalciina | | | |
| <i>Diachrysia aereoides</i> (Grote, 1864) | G | AB SK MB | |
| <i>Diachrysia balluca</i> (Geyer, 1832) | p | AB SK MB | |
| <i>Polychrysia esmeralda</i> (Oberthür, 1880) | G | AB SK MB | |
| <i>Pseudeva purpurigera</i> (Walker, 1858) | p | AB SK MB | |
| <i>Pseudeva palligera</i> (Grote, 1881) | p | AB | |
| <i>Chrysanympa formosa</i> (Grote, 1865) | p | AB SK MB | |
| <i>Eosphropteryx thyatroides</i> (Guenée, 1852) | p | AB SK MB | |
| <i>Exyra fax</i> (Grote, 1873) | p | P MB | |
| Subtribe Plusiina | | | |
| <i>Autographa precationis</i> (Guenée, 1852) | p | SK MB | |
| <i>Autographa californica</i> (Speyer, 1875) | G | AB SK MB | |
| <i>Autographa mappa</i> (Grote & Robinson, 1868) | p | AB SK MB | |
| <i>Autographa pseudogamma</i> (Grote, 1875) | p | AB SK MB | |
| <i>Autographa bimaculata</i> (Stephens, 1830) | p | AB SK MB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| <i>Autographa ampla</i> (Walker, [1858]) | p | AB SK MB | |
| <i>Autographa rubidus</i> Ottolengui, 1902 | p | AB SK MB | |
| <i>Autographa sansoni</i> Dod, 1910 | p | AB | |
| <i>Autographa flagellum</i> (Walker, [1858]) | p | AB SK MB | |
| <i>Megalographa biloba</i> (Stephens, 1830) | G | M M M | |
| <i>Syngrapha octoscripta</i> (Grote, 1874) | G | AB SK MB | |
| <i>Syngrapha viridisigma</i> (Grote, 1874) | p | AB SK MB | |
| <i>Syngrapha epigaea</i> (Grote, 1875) | p | AB SK MB | |
| <i>Syngrapha ignea</i> (Grote, 1863) | p | AB SK | |
| <i>Syngrapha abstrusa</i> Eichlin & Cunningham, 1978 | p | AB P MB | |
| <i>Syngrapha alias</i> (Ottolengui, 1902) | p | AB SK MB | |
| <i>Syngrapha rectangula</i> (Kirby, 1837) | p | AB SK MB | |
| <i>Syngrapha microgamma</i> (Hübner, 1823) | p | AB SK MB | |
| <i>Syngrapha montana</i> (Packard, 1869) | p | P SK P | |
| <i>Anagrapha falcifera</i> (Kirby, 1837) | G | AB SK MB | |
| <i>Plusia venusta</i> Walker, 1865 | G | AB SK MB | |
| <i>Plusia putnami</i> Grote, 1873 | p | AB SK MB | |
| <i>Plusia contexta</i> Grote, 1873 | p | P SK MB | |
| Subfamily Bagisarinae | | | |
| <i>Bagisara rectifascia</i> (Grote, 1874) * | p | | MB |
| Subfamily Eustrotiinae | | | |
| <i>Deltote bellicula</i> (Hübner, 1818) | p | AB SK MB | |
| <i>Protodeltote albidula</i> (Guenée, 1852) | p | AB SK MB | |
| <i>Maliattha synochitis</i> (Grote & Robinson, 1868) | G | P SK MB | |
| <i>Capis curvata</i> Grote, 1882 | p | SK MB | |
| Subfamily Acontiinae | | | |
| Tribe Acontiini | | | |
| <i>Ponometia semiflava</i> (Guenée, 1852) | G | AB SK MB | |
| <i>Ponometia virginialis</i> (Grote, 1881) * | G | SK U | |
| <i>Ponometia binocula</i> (Grote, 1875) * | G | AB SK MB | |
| <i>Ponometia candefacta</i> (Hübner, [1831]) | p | SK MB | |
| <i>Ponometia erastrioides</i> (Guenée, 1852) | p | SK U | |
| <i>Ponometia tortricina</i> (Zeller, 1872) | G | AB SK MB | |
| <i>Ponometia fasciatella</i> (Grote, 1875) * | G | P MB | |
| <i>Ponometia elegantula</i> (Harvey, 1876) * | G | AB SK | |
| <i>Ponometia sutrix</i> (Grote, 1880) * | G | AB SK | |
| <i>Tarache augustipennis</i> Grote, 1875 | G | AB SK MB | |
| <i>Spragueia leo</i> (Guenée, 1852) | p | P MB | |
| Subfamily Pantheinae | | | |
| <i>Panthea acronyctoides</i> (Walker, 1861) | p | AB SK MB | |
| <i>Panthea virginarius</i> (Grote, 1880) | p | AB SK U | |
| <i>Colocasia flavicornis</i> (Smith, 1884) | p | P SK MB | |
| <i>Colocasia propinquinella</i> (Grote, 1873) | p | AB SK MB | |
| <i>Charadra deridens</i> (Guenée, 1852) | p | SK MB | |
| Subfamily Raphinae | | | |
| <i>Raphia frater</i> Grote, 1864 | G | AB SK MB | |
| Subfamily Balsinae | | | |
| <i>Balsa labecula</i> (Grote, 1880) | p | U MB | |
| Subfamily Acronictinae | | | |
| <i>Acronicta americana</i> (Harris, 1841) | G | AB SK MB | |
| <i>Acronicta dactylina</i> (Grote, 1874) | G | AB SK MB | |
| <i>Acronicta lepusculina</i> (Guenée, 1852) | G | AB SK MB | |
| <i>Acronicta vulpina</i> (Grote, 1883) | G | AB SK MB | |
| <i>Acronicta innotata</i> (Guenée, 1852) | p | AB SK MB | |
| <i>Acronicta radcliffei</i> (Harvey, 1875) | p | AB SK MB | |
| <i>Acronicta grisea</i> (Walker, 1856) | p | AB SK MB | |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| <i>Acronicta falcula</i> (Grote, 1877) * | p | | MB |
| <i>Acronicta mansueta</i> (Smith, 1897) | p | AB | |
| <i>Acronicta funeralis</i> (Grote & Robinson, 1866) | G | P SK MB | |
| <i>Acronicta quadrata</i> (Grote, 1874) | G | AB SK MB | |
| <i>Acronicta superans</i> (Guenée, 1852) | p | AB SK MB | |
| <i>Acronicta hasta</i> (Guenée, 1852) | p | AB SK MB | |
| <i>Acronicta spinigera</i> (Guenée, 1852) | p | SK MB | |
| <i>Acronicta morula</i> (Grote & Robinson, 1868) | p | SK MB | |
| <i>Acronicta interrupta</i> (Guenée, 1852) | G | AB SK MB | |
| <i>Acronicta lobeliae</i> (Guenée, 1852) | p | SK U | |
| <i>Acronicta fragilis</i> (Guenée, 1852) | p | AB SK MB | |
| <i>Acronicta albarufa</i> (Grote, 1874) | p | | MB |
| <i>Acronicta ovata</i> (Grote, 1873) | p | | MB |
| <i>Acronicta exilis</i> (Grote, 1874) | p | | MB |
| <i>Acronicta increta</i> (Morrison, 1874) | p | SK MB | |
| <i>Acronicta retardata</i> (Walker, 1861) | p | SK U | |
| <i>Acronicta impleta</i> (Walker, 1856) | G | AB SK MB | |
| <i>Acronicta sperata</i> (Grote, 1873) | G | AB SK MB | |
| <i>Acronicta noctivaga</i> (Grote, 1864) | p | P MB | |
| <i>Acronicta impressa</i> (Walker, 1856) | G | AB SK MB | |
| <i>Acronicta longa</i> (Guenée, 1852) | G | AB SK U | |
| <i>Acronicta oblinita</i> (Smith, 1797) | p | AB SK MB | |
| <i>Acronicta lanceolaria</i> (Grote, 1875) | G | AB SK MB | |
| <i>Simyra insularis</i> (Herrich-Schäffer, 1868) | G | AB SK MB | |
| <i>Agriopodes geminata</i> (Smith, 1903) | p | SK MB | |
| <i>Harrisimemna trisignata</i> (Walker, 1856) | p | AB SK U | |
| Subfamily Cuculliinae | | | |
| <i>Cucullia asteroides</i> Guenée, 1852 | G | P SK MB | |
| <i>Cucullia montanae</i> Grote, 1882 | G | AB SK MB | |
| <i>Cucullia similaris</i> Smith, 1892 | G | AB P | |
| <i>Cucullia omissa</i> Dod, 1916 | G | AB SK MB | |
| <i>Cucullia florea</i> Guenée, 1852 | G | AB SK MB | |
| <i>Cucullia postera</i> Guenée, 1852 | G | AB SK MB | |
| <i>Cucullia convexpennis</i> Grote & Robinson, 1868 | G | P SK MB | |
| <i>Cucullia intermedia</i> Speyer, 1870 | G | AB SK MB | |
| <i>Cucullia speyeri</i> Lintner, 1874 | G | AB SK MB | |
| <i>Cucullia dorsalis</i> Smith, 1892 | G | AB U | |
| <i>Cucullia antipoda</i> Strecker, 1878 | G | AB SK U | |
| <i>Cucullia luna</i> Morrison, 1875 * | G | AB SK MB | |
| <i>Cucullia strigata</i> (Smith, 1892) | G | AB | |
| <i>Cucullia albida</i> Smith, 1894 * | G | AB SK MB | |
| <i>Cucullia pulla</i> (Grote, 1881) | G | SK | |
| Subfamily Amphipyrinae | | | |
| Tribe Amphipyriini | | | |
| <i>Amphipyra pyramidoides</i> Guenée, 1852 | p | AB SK MB | |
| <i>Amphipyra tragopoginis</i> (Clerck, 1759) | p | AB U | I |
| <i>Amphipyra glabella</i> (Morrison, 1874) | p | AB SK MB | |
| Tribe Psaphidini | | | |
| Subtribe Psaphidina | | | |
| <i>Copivaleria grotei</i> (Morrison, 1874) | p | P SK MB | |
| <i>Brachionycha borealis</i> (Smith, 1899) | p | AB SK MB | |
| Subtribe Feraliina | | | |
| <i>Feralia jocosca</i> (Guenée, 1852) | p | AB SK MB | |
| <i>Feralia major</i> Smith, 1890 | p | AB MB | |
| <i>Feralia comstocki</i> Grote, 1874 | p | AB SK MB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| Subtribe Triocnemidina | | | |
| <i>Acopa perpallida</i> Grote, 1878 | G | AB SK | |
| Tribe Stiriini | | | |
| Subtribe Stiriina | | | |
| <i>Plagiomimicus heitzmani</i> Poole, 1995 * | G | | MB |
| <i>Plagiomimicus spumosus</i> (Grote, 1874) | G | AB P | |
| <i>Plagiomimicus expallidus</i> Grote, 1883 * | G | AB SK U | |
| <i>Stiria rugifrons</i> Grote, 1874 * | G | AB SK U | |
| Subfamily Oncocnemidinae | | | |
| <i>Catabena lineolata</i> Walker, 1865 | G | AB P U | |
| <i>Calophasia lunula</i> (Hufnagel, 1766) | G | AB | I |
| <i>Pseudacontia crustaria</i> (Morrison, 1875) * | G | AB SK MB | |
| <i>Pleromelloida conserta</i> (Grote, 1881) | G | AB SK | |
| <i>Pleromelloida bonuscula</i> (Smith, 1898) | G | AB | |
| <i>Sympistis albifasciata</i> (Hampson, 1906) | G | AB SK | |
| <i>Sympistis saundersiana</i> (Grote, 1876) | G | AB P MB | |
| <i>Sympistis occata</i> (Grote, 1875) | G | AB SK | |
| <i>Sympistis balteata</i> (Smith, 1902) * | G | P SK MB | |
| <i>Sympistis viriditincta</i> (Smith, 1894) | G | AB SK MB | |
| <i>Sympistis stabilis</i> (Smith, 1895) | G | AB SK MB | |
| <i>Sympistis badistriga</i> (Grote, 1872) | p | AB SK MB | |
| <i>Sympistis dinalda</i> (Smith, 1908) | G | AB SK MB | |
| <i>Sympistis iricolor</i> (Smith, 1888) * | G | P MB | |
| <i>Sympistis lepipoloides</i> (McDunnough, 1922) * | G | AB SK | |
| <i>Sympistis levis</i> (Grote, 1880) | G | AB SK | |
| <i>Sympistis insanina</i> Troubridge, 2008 * | G | AB SK MB | |
| <i>Sympistis poliochroa</i> (Hampson, 1906) | G | AB SK MB | |
| <i>Sympistis mackiei</i> (Barnes & Benjamin, 1924) * | G | AB SK | |
| <i>Sympistis cibalis</i> (Grote, 1880) | G | AB SK MB | |
| <i>Sympistis regina</i> (Smith, 1902) * | G | AB SK | |
| <i>Sympistis augustus</i> (Harvey, 1875) | G | AB SK | |
| <i>Sympistis pudorata</i> (Smith, 1893) | G | AB | |
| <i>Sympistis riparia</i> (Morrison, 1875) | G | AB SK MB | |
| <i>Sympistis chons</i> Troubridge, 2008 | G | AB | |
| <i>Sympistis chionanthi</i> (Smith, 1797) | G | AB SK MB | |
| <i>Sympistis barnesii</i> (Smith, 1899) | G | AB U | |
| <i>Sympistis piffardi</i> (Walker, 1862) | p | AB SK MB | |
| <i>Sympistis dentata</i> (Grote, 1875) | p | AB SK MB | |
| <i>Sympistis pallidior</i> (Barnes, 1928) | G | AB SK | |
| Subfamily Agaristinae | | | |
| <i>Alypia octomaculata</i> (Fabricius, 1775) | p | SK U | |
| <i>Alypia langtoni</i> Couper, 1865 | p | AB SK MB | |
| <i>Androloma maccullochii</i> (Kirby, 1837) | p | AB SK MB | |
| Subfamily Condicinae | | | |
| Tribe Condicini | | | |
| <i>Condica videns</i> (Guenée, 1852) | p | AB SK MB | |
| <i>Condica discistriga</i> (Smith, 1894) | G | AB SK | |
| Tribe Leuconyctini | | | |
| <i>Leuconycta diptheroides</i> (Guenée, 1852) | p | SK MB | |
| <i>Leuconycta lepidula</i> (Grote, 1874) | G | AB SK MB | |
| <i>Crambodes talidiformis</i> Guenée, 1852 | G | AB P MB | |
| Subfamily Heliothinae | | | |
| <i>Eutricopsis nexilis</i> Morrison, 1875 | G | AB SK MB | |
| <i>Pyrrhia cilisca</i> (Guenée, 1852) | G | SK MB | |
| <i>Pyrrhia exprimens</i> (Walker, 1857) | G | AB SK MB | |
| <i>Helicoverpa zea</i> (Boddie, 1850) | G | M M M | |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| <i>Heliothis phloxiphaga</i> Grote & Robinson, 1867 | G | AB SK MB | |
| <i>Heliothis acesias</i> Felder & Rogenhofer, 1875 | G | AB SK MB | |
| <i>Heliothis ononis</i> (Fabricius, 1787) | G | AB SK MB | |
| <i>Heliothis oregonica</i> (Edwards, 1875) | G | AB SK U | |
| <i>Heliothis borealis</i> (Hampson, 1903) | G | AB SK MB | |
| <i>Protoschinia nuchalis</i> (Grote, 1878) | G | AB SK U | |
| <i>Schinia bimatrix</i> (Harvey, 1875) * | G | P MB | |
| <i>Schinia jaguarina</i> (Guenée, 1852) * | G | AB SK MB | |
| <i>Schinia suetus</i> (Grote, 1873) | G | AB P | |
| <i>Schinia lucens</i> (Morrison, 1875) * | G | | MB |
| <i>Schinia meadi</i> (Grote, 1873) | G | AB SK U | |
| <i>Schinia florida</i> (Guenée, 1852) | G | AB SK MB | |
| <i>Schinia gaurae</i> (Smith, 1797) * | G | AB SK U | |
| <i>Schinia thoreau</i> (Grote & Robinson, 1870) | G | P MB | |
| <i>Schinia verna</i> Hardwick, 1983 * | G | AB SK MB | |
| <i>Schinia villosa</i> (Grote, 1864) | G | AB SK MB | |
| <i>Schinia sexata</i> (Smith, 1906) * | G | U MB | |
| <i>Schinia persimilis</i> (Grote, 1873) * | G | AB SK MB | |
| <i>Schinia arcigera</i> (Guenée, 1852) | G | SK MB | |
| <i>Schinia sanguinea</i> (Geyer, 1832) | G | SK | |
| <i>Schinia roseitincta</i> (Harvey, 1875) | G | AB P MB | |
| <i>Schinia bina</i> (Guenée, 1852) * | G | SK MB | |
| <i>Schinia acutilinea</i> (Grote, 1878) | G | AB SK | |
| <i>Schinia cumatilis</i> (Grote, 1865) | G | AB SK MB | |
| <i>Schinia avemensis</i> (Dyar, 1904) * | G | AB SK MB | |
| <i>Melaporphyria immortua</i> Grote, 1874 * | p | AB SK MB | |
| Subfamily Eriopinae | | | |
| <i>Callopietria cordata</i> (Ljungh, 1825) | p | | MB |
| Subfamily Bryophilinae | | | |
| " <i>Cryphia</i> " <i>cuerva</i> (Barnes, 1907) | p | AB | |
| Subfamily Noctuinae | | | |
| Tribe Pseudeustrotiini | | | |
| <i>Pseudeustrotia carneola</i> (Guenée, 1852) | G | AB SK MB | |
| <i>Anterastria teratophora</i> (Herrich-Schäffer, [1854]) | p | AB SK MB | |
| Tribe Phosphilini | | | |
| <i>Phosphila miselioides</i> (Guenée, 1852) | p | SK MB | |
| Tribe Prodeniini | | | |
| <i>Spodoptera frugiperda</i> (Smith, 1797) | G | M M | |
| <i>Spodoptera praefica</i> (Grote, 1875) | G | AB | |
| Tribe Elaphriini | | | |
| <i>Elaphria versicolor</i> (Grote, 1875) | p | | MB |
| <i>Elaphria alapallida</i> Pogue & Sullivan, 2003 | p | AB SK MB | |
| <i>Galgula partita</i> Guenée, 1852 | p | | MB |
| <i>Chytonix palliatricula</i> (Guenée, 1852) | p | AB SK MB | |
| Tribe Caradrinini | | | |
| Subtribe Caradrinina | | | |
| <i>Protoperigea anotha</i> (Dyar, 1904) | G | AB | |
| <i>Protoperigea posticata</i> (Harvey, 1875) | G | AB P | |
| <i>Caradrina morpheus</i> (Hufnagel, 1766) | G | AB | I |
| <i>Caradrina meralis</i> Morrison, 1875 | G | AB SK MB | |
| <i>Caradrina montana</i> Bremer, 1861 | G | AB SK MB | |
| <i>Caradrina multifera</i> Walker, [1857] | p | | MB |
| Subtribe Athetiina | | | |
| <i>Proxenus miranda</i> (Grote, 1873) | G | AB SK MB | |
| <i>Proxenus mendosa</i> McDunnough, 1927 | G | AB SK MB | |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| Tribe Drypterygiini | | | |
| <i>Dypterygia rozmani</i> Berio, 1974 | p | U MB | |
| <i>Trachea delicata</i> (Grote, 1874) | G | AB SK U | |
| <i>Magusa divaricata</i> (Grote, 1874) | p | S | |
| Tribe Phlogophorini | | | |
| <i>Euplexia benesimilis</i> McDunnough, 1922 | p | AB SK MB | |
| <i>Phlogophora iris</i> Guenée, 1852 | p | SK MB | |
| <i>Phlogophora periculosa</i> Guenée, 1852 | p | AB SK MB | |
| Tribe Apameini | | | |
| <i>Apamea verbascoides</i> (Guenée, 1852) | p | P SK MB | |
| <i>Apamea cariosa</i> (Guenée, 1852) | G | AB SK U | |
| <i>Apamea apamiformis</i> (Guenée, 1852) | p | P MB | |
| <i>Apamea vultuosa</i> (Grote, 1875) | p | AB SK MB | |
| <i>Apamea plutonia</i> (Grote, 1883) | p | AB SK MB | |
| <i>Apamea alia</i> (Guenée, 1852) | p | AB SK MB | |
| <i>Apamea indocilis</i> (Walker, 1856) | p | AB SK MB | |
| <i>Apamea impulsiva</i> (Guenée, 1852) | p | AB SK MB | |
| <i>Apamea unita</i> (Smith, 1904) * | p | AB | |
| <i>Apamea sordens</i> (Hufnagel, 1766) | G | AB SK MB | |
| <i>Apamea inordinata</i> (Morrison, 1875) | G | AB SK MB | |
| <i>Apamea spaldingi</i> (Smith, 1909) | G | AB SK | |
| <i>Apamea lignicolora</i> (Guenée, 1852) | G | AB SK MB | |
| <i>Apamea helva</i> (Grote, 1875) | p | SK MB | |
| <i>Apamea sora</i> (Smith, 1903) | p | AB SK | |
| <i>Apamea commoda</i> (Walker, 1857) | G | AB SK MB | |
| <i>Apamea occidens</i> (Grote, 1878) | G | AB U | |
| <i>Apamea amputatrix</i> (Fitch, 1857) | G | AB SK MB | |
| <i>Apamea burgessi</i> (Morrison, 1874) * | G | AB P | |
| <i>Apamea longula</i> (Grote, 1879) | G | AB SK | |
| <i>Apamea scoparia</i> Mikkola, Mustelin & Lafontaine, 2000 | G | AB SK MB | |
| <i>Apamea dubitans</i> (Walker, 1856) | p | MB | |
| <i>Apamea cogitata</i> (Smith, 1891) | G | AB SK MB | |
| <i>Apamea inficita</i> (Walker, 1857) | G | AB SK MB | |
| <i>Apamea lutosa</i> (Andrews, 1877) | G | P SK MB | |
| <i>Apamea devastator</i> (Brace, 1819) | G | AB SK MB | |
| <i>Apamea contradicta</i> (Smith, 1895) | p | AB SK | |
| <i>Apamea niveivenosa</i> (Grote, 1879) | G | AB SK MB | |
| <i>Loscopia velata</i> (Walker, 1865) | p | SK MB | |
| <i>Laterologia ophiogramma</i> (Esper, 1793) | p | AB SK MB | I |
| <i>Resapamea passer</i> (Guenée, 1852) | G | AB SK MB | |
| " <i>Resapamea</i> " <i>stipata</i> (Morrison, 1875) | p | SK MB | |
| <i>Mesapamea fractilinea</i> (Grote, 1874) | G | AB SK MB | |
| <i>Eremobina claudens</i> (Walker, 1857) | p | AB SK MB | |
| <i>Eremobina leucoscelis</i> (Grote, 1874) | p | AB P U | |
| " <i>Oligia</i> " <i>modica</i> (Guenée, 1852) | p | AB SK MB | |
| " <i>Oligia</i> " <i>egens</i> (Walker, [1857]) | G | AB SK MB | |
| " <i>Oligia</i> " <i>minuscula</i> (Morrison, 1875) | p | SK MB | |
| " <i>Oligia</i> " <i>obtusa</i> (Smith, 1902) | G | P SK MB | |
| <i>Neoligia subjuncta</i> (Smith, 1898) | G | AB SK MB | |
| <i>Neoligia tonsa</i> (Grote, 1880) | G | AB U U | |
| <i>Xylomoia chagnoni</i> Barnes & McDunnough, 1917 | p | P SK MB | |
| <i>Photodes inops</i> (Grote, 1881) * | G | AB SK MB | |
| <i>Photodes includens</i> (Walker, [1858]) | G | AB SK U | |
| <i>Photodes panatela</i> (Smith, 1904) | p | AB SK MB | |
| <i>Photodes didonea</i> (Smith, 1894) * | G | AB U | |
| <i>Photodes defecta</i> (Grote, 1874) | G | AB SK MB | |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| <i>Hypocoena inquinata</i> (Guenée, 1852) | p | AB SK MB | |
| <i>Hypocoena basistriga</i> (McDunnough, 1933) | p | AB SK U | |
| <i>Hypocoena rufostrigata</i> (Packard, 1867) | G | AB SK MB | |
| <i>Capsula oblonga</i> (Grote, 1882) | G | AB SK MB | |
| <i>Capsula subflava</i> (Grote, 1882) | G | AB SK MB | |
| <i>Helotropha reniformis</i> (Grote, 1874) | G | AB SK MB | |
| <i>Amphipoea interoceanica</i> (Smith, 1899) | G | AB SK MB | |
| <i>Amphipoea americana</i> (Speyer, 1875) | p | AB SK MB | |
| <i>Hydraecia pallescens</i> (Smith, 1899) | G | AB SK | |
| <i>Hydraecia immanis</i> (Guenée, 1852) | p | | MB |
| <i>Hydraecia perobliqua</i> (Hampson, 1910) | G | AB SK MB | |
| <i>Hydraecia intermedia</i> (Barnes & Benjamin, 1924) * | G | AB | |
| <i>Papaipema unimoda</i> (Smith, 1894) | p | AB SK MB | |
| <i>Papaipema cerina</i> (Grote, 1874) | G | SK U | |
| <i>Papaipema furcata</i> (Smith, 1899) | p | P MB | |
| <i>Papaipema circumlucens</i> (Smith, 1899) * | G | SK MB | |
| <i>Papaipema birdi</i> (Dyar, 1908) | p | AB SK MB | |
| <i>Papaipema harrisii</i> (Grote, 1881) | G | AB SK MB | |
| <i>Papaipema leucostigma</i> (Harris, 1841) | p | SK MB | |
| <i>Papaipema cataphracta</i> (Grote, 1864) | p | SK MB | |
| <i>Papaipema nebris</i> (Guenée, 1852) | p | | MB |
| <i>Papaipema rigida</i> (Grote, 1877) | p | P MB | |
| <i>Papaipema nelita</i> (Strecker, 1898) | p | P MB | |
| <i>Papaipema aweme</i> (Lyman, 1908) | p | P MB | |
| <i>Papaipema maritima</i> Bird, 1909 * | G | AB | |
| Tribe Arzamini | | | |
| <i>Bellura gortynoides</i> Walker, 1865 | p | AB SK | |
| <i>Bellura obliqua</i> (Walker, 1865) | p | AB SK MB | |
| Tribe Xylenini | | | |
| Subtribe Xylenina | | | |
| <i>Xylena nupera</i> (Lintner, 1874) | G | AB SK MB | |
| <i>Xylena curvimacula</i> (Morrison, 1874) | p | AB SK MB | |
| <i>Xylena thoracica</i> (Putnam-Cramer, 1886) | p | AB SK U | |
| <i>Xylena cineritia</i> (Grote, 1875) | p | AB SK MB | |
| <i>Lithomoia germana</i> (Morrison, 1875) | p | AB SK MB | |
| <i>Homoglaea hircina</i> Morrison, 1876 | p | AB SK MB | |
| <i>Homoglaea carbonaria</i> (Harvey, 1876) | p | AB SK U | |
| <i>Litholomia napaea</i> (Morrison, 1874) | p | AB SK MB | |
| <i>Lithophane bethunei</i> (Grote & Robinson, 1868) | p | P SK MB | |
| <i>Lithophane innominata</i> (Smith, 1893) | p | AB SK MB | |
| <i>Lithophane petulca</i> Grote, 1874 | p | AB SK MB | |
| <i>Lithophane disposita</i> Morrison, 1874 | p | AB SK MB | |
| <i>Lithophane amanda</i> (Smith, 1900) | p | AB SK MB | |
| <i>Lithophane pexata</i> Grote, 1874 | p | AB SK MB | |
| <i>Lithophane thaxteri</i> Grote, 1874 | p | AB SK MB | |
| <i>Lithophane fagina</i> Morrison, 1874 | p | AB SK MB | |
| <i>Lithophane baileyi</i> Grote, 1877 | p | | MB |
| <i>Lithophane tepida</i> Grote, 1874 | p | AB SK MB | |
| <i>Lithophane georgii</i> Grote, 1875 | p | AB SK MB | |
| <i>Lithophane antennata</i> (Walker, 1858) | p | | MB |
| <i>Lithophane laticinerea</i> Grote, 1874 | G | P SK MB | |
| <i>Lithophane unimoda</i> (Lintner, 1878) | p | AB SK MB | |
| <i>Eupsilia vinulenta</i> (Grote, 1864) | G | AB SK MB | |
| <i>Eupsilia sidus</i> (Guenée, 1852) | p | SK MB | |
| <i>Eupsilia tristigmata</i> (Grote, 1877) | G | AB SK MB | |
| <i>Eupsilia devia</i> (Grote, 1875) | p | AB SK MB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| <i>Metaxaglaea inulta</i> (Grote, 1874) | p | P MB | |
| <i>Epiglaea decliva</i> (Grote, 1874) | G | AB SK MB | |
| <i>Chaetaglaea cerata</i> Franclemont, 1943 | p | MB | |
| <i>Eucirroedia pampina</i> (Guenée, 1852) | G | AB SK MB | |
| <i>Sunira bicolorago</i> (Guenée, 1852) | G | AB SK MB | |
| <i>Sunira verberata</i> (Smith, 1904) | p | AB SK MB | |
| <i>Anathix puta</i> (Grote & Robinson, 1868) | G | AB SK MB | |
| <i>Anathix aggressa</i> (Smith, 1907) | G | AB SK U | |
| <i>Xanthia tatago</i> Lafontaine & Mikkola, 2003 | p | AB SK MB | |
| <i>Hillia maida</i> (Dyar, 1904) | p | AB | |
| <i>Hillia iris</i> (Zetterstedt, 1839) | p | AB SK MB | |
| <i>Parastichtis suspecta</i> (Hübner, [1817]) | p | AB SK MB | |
| <i>Aseptis characta</i> (Grote, 1880) | G | AB SK MB | |
| <i>Epidemas obscurus</i> Smith, 1903 | G | AB U U | |
| <i>Brachylomia populi</i> (Strecker, 1898) | p | AB SK MB | |
| <i>Brachylomia algens</i> (Grote, 1878) | p | AB SK MB | |
| <i>Brachylomia discinigra</i> (Walker, 1856) | p | AB SK MB | |
| <i>Hyppa contrasta</i> McDunnough, 1946 | p | AB SK MB | |
| Subtribe Cosmiina | | | |
| <i>Cosmia calami</i> (Harvey, 1876) | p | SK MB | |
| <i>Enargia infumata</i> (Grote, 1874) | p | AB SK MB | |
| <i>Enargia decolor</i> (Walker, 1858) | p | AB SK MB | |
| <i>Ipimorpha pleonectusa</i> Grote, 1873 | p | AB SK MB | |
| Subtribe Antitypina | | | |
| <i>Andropolia contacta</i> (Walker, 1856) | p | AB SK MB | |
| <i>Andropolia aedon</i> (Grote, 1880) | p | AB SK | |
| <i>Rhizagrotis cloanthoides</i> (Grote, 1881) * | G | AB | |
| <i>Rhizagrotis albalis</i> (Grote, 1878) * | G | AB P | |
| <i>Rhizagrotis stylata</i> (Smith, 1893) * | G | AB P | |
| <i>Fishia discors</i> (Grote, 1881) | p | AB SK MB | |
| <i>Fishia yosemitae</i> (Grote, 1873) | G | AB SK MB | |
| <i>Fishia illocata</i> (Walker, 1857) | p | AB SK MB | |
| <i>Platypolia anceps</i> (Stephens, 1850) | p | AB SK MB | |
| <i>Platypolia contadina</i> (Smith, 1894) | p | AB | |
| <i>Platypolia loda</i> (Strecker, 1898) | p | AB | |
| <i>“Platypolia” mactata</i> (Guenée, 1852) | p | AB SK MB | |
| <i>Xylotype arcadia</i> Barnes & Benjamin, 1922 | p | AB SK U | |
| <i>Mniotype ducta</i> (Grote, 1878) | G | AB SK MB | |
| <i>Mniotype tenera</i> (Smith, 1900) | G | AB SK MB | |
| <i>Sutyna privata</i> (Walker, 1857) | p | AB SK MB | |
| Subtribe Ufeina | | | |
| <i>Ufeus satyricus</i> Grote, 1873 | p | AB SK MB | |
| <i>Ufeus hulstii</i> Smith, 1908 | p | AB U | |
| Subtribe Xylenini-unplaced | | | |
| <i>Pseudanarta crocea</i> (Edwards, 1875) | G | AB SK | |
| Tribe Orthosiini | | | |
| <i>Stretchia plusiaeformis</i> Edwards, 1874 | p | AB SK | |
| <i>Stretchia muricina</i> (Grote, 1876) | G | AB P | |
| <i>Orthosia revicta</i> (Morrison, 1876) | G | AB SK MB | |
| <i>Orthosia segregata</i> (Smith, 1893) | G | AB SK MB | |
| <i>Orthosia hibisci</i> (Guenée, 1852) | p | AB SK MB | |
| <i>Crocigrapha normani</i> (Grote, 1874) | G | AB SK MB | |
| <i>Egira curialis</i> (Grote, 1873) | G | P SK | |
| <i>Egira dolosa</i> (Grote, 1880) | p | AB SK MB | |
| <i>Egira rubrica</i> (Harvey, 1878) | G | AB SK U | |
| <i>Achatia distincta</i> Hübner, 1813 | p | P MB | |

| | Status | Occurrence | Introduced? |
|--|--------|------------|-------------|
| <i>Morrisonia evicta</i> (Grote, 1873) | G | AB SK MB | |
| <i>Morrisonia latex</i> (Guenée, 1852) | p | | MB |
| Tribe Tholerini | | | |
| <i>Tholera americana</i> (Smith, 1894) | G | AB SK | |
| <i>Nephelodes minians</i> Guenée, 1852 | G | AB SK MB | |
| Tribe Hadenini | | | |
| <i>Escaria homogena</i> McDunnough, 1922 * | G | AB SK | |
| <i>Afotella cylindrica</i> (Grote, 1880) * | G | AB SK | |
| <i>Hadenella pergentilis</i> Grote, 1883 | G | AB SK | |
| <i>Anarta trifolii</i> (Hufnagel, 1766) | G | AB SK MB | |
| <i>Anarta mutata</i> (Dod, 1913) | G | AB SK MB | |
| <i>Anarta inconcinna</i> (Smith, [1888]) * | G | AB SK | |
| <i>Anarta hamata</i> (McDunnough, 1930) | p | P SK | |
| <i>Anarta alta</i> (Barnes & Benjamin, 1924) * | p | AB | |
| <i>Anarta obesula</i> (Smith, 1904) * | G | AB SK U | |
| <i>Anarta farnhami</i> (Grote, 1873) | G | AB SK MB | |
| <i>Anarta crotchii</i> (Grote, 1880) | G | AB SK MB | |
| <i>Anarta antica</i> (Smith, 1891) * | G | AB P | |
| <i>Anarta decepta</i> (Grote, 1883) * | G | AB SK | |
| <i>Scotogramma submarina</i> (Grote, 1883) * | G | AB SK | |
| <i>Scotogramma fervida</i> Barnes & McDunnough, 1912 * | G | AB SK | |
| <i>Coranarta luteola</i> (Grote & Robinson, 1865) | p | AB SK MB | |
| <i>Coranarta macrostigma</i> (Laf. & Mik., 1987) | p | AB | |
| <i>Polia discalis</i> (Grote, 1877) | G | AB SK | |
| <i>Polia piniae</i> Buckett & Bauer, 1967 | p | AB | |
| <i>Polia nimbose</i> (Guenée, 1852) | p | AB SK MB | |
| <i>Polia imbrifera</i> (Guenée, 1852) | p | AB SK MB | |
| <i>Polia rogenhoferi</i> (Möschler, 1870) | p | AB SK MB | |
| <i>Polia purpurissata</i> (Grote, 1864) | G | AB SK MB | |
| <i>Polia nugatis</i> (Smith, 1898) | G | AB SK | |
| <i>Melanchra adjuncta</i> (Guenée, 1852) | G | AB SK MB | |
| <i>Melanchra picta</i> (Harris, 1841) | G | AB SK MB | |
| <i>Melanchra pulverulenta</i> (Smith, 1888) | p | AB SK MB | |
| <i>Melanchra assimilis</i> (Morrison, 1874) | p | AB SK MB | |
| <i>Lacanobia nevadae</i> (Grote, 1876) | p | AB SK MB | |
| <i>Lacanobia atlantica</i> (Grote, 1874) | G | AB SK MB | |
| <i>Lacanobia radix</i> (Walker, [1857]) | G | AB SK MB | |
| <i>Lacanobia subjuncta</i> (Grote & Robinson, 1868) | G | AB SK MB | |
| <i>Lacanobia grandis</i> (Guenée, 1852) | G | AB SK MB | |
| <i>Spiramater lutra</i> (Guenée, 1852) | G | AB SK MB | |
| <i>Trichordestra tacoma</i> (Strecker, 1900) | p | AB SK MB | |
| <i>Trichordestra legitima</i> (Grote, 1864) | p | AB SK U | |
| <i>Trichordestra dodii</i> (Smith, 1904) | p | AB SK U | |
| <i>Trichordestra lilacina</i> (Harvey, 1874) | G | AB SK MB | |
| <i>Trichordestra liquida</i> (Grote, 1881) | G | AB SK | |
| <i>Papestra quadrata</i> (Smith, 1891) | p | AB SK MB | |
| <i>Papestra biren</i> (Goeze, 1781) | p | AB SK MB | |
| <i>Papestra cristifera</i> (Walker, 1858) | p | AB SK MB | |
| <i>Hada sutrina</i> (Grote, 1881) | p | AB SK MB | |
| <i>Mamestra configurata</i> Walker, 1856 | G | AB SK MB | |
| <i>Mamestra curialis</i> (Smith, 1888) | G | AB SK U | |
| <i>Sideridis fuscolutea</i> (Smith, 1892) | G | AB | |
| <i>Sideridis uscripta</i> (Smith, 1891) | G | AB SK U | |
| <i>Sideridis artesta</i> (Smith, 1903) | G | AB SK U | |
| <i>Sideridis rosea</i> (Harvey, 1874) | G | AB SK MB | |
| <i>Sideridis maryx</i> (Guenée, 1852) | p | AB SK MB | |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| <i>Hadena capsularis</i> (Guenée, 1852) | p | SK | MB |
| <i>Hadena circumvadis</i> (Smith, 1902) * | G | AB SK | MB |
| <i>Dargida procinctus</i> (Grote, 1873) | G | AB SK | MB |
| <i>Dargida diffusa</i> (Walker, 1856) | G | AB SK | MB |
| Tribe Leucaniini | | | |
| <i>Mythimna oxygala</i> (Grote, 1881) | G | AB SK | MB |
| <i>Mythimna unipuncta</i> (Haworth, 1809) | G | AB SK | MB |
| <i>Leucania linita</i> Guenée, 1852 | p | U | MB |
| <i>Leucania anteroclara</i> Smith, 1902 | G | AB SK | |
| <i>Leucania phragmitidicola</i> Guenée, 1852 | p | SK | MB |
| <i>Leucania multilinea</i> Walker, 1856 | G | AB SK | MB |
| <i>Leucania commoides</i> Guenée, 1852 | G | AB SK | MB |
| <i>Leucania insueta</i> Guenée, 1852 | G | AB SK | MB |
| <i>Leucania dia</i> (Grote, 1879) | p | AB P | U |
| <i>Leucania inermis</i> (Forbes, 1936) | p | | MB |
| Tribe Eriopygini | | | |
| <i>Lasionycta secedens</i> (Walker, [1858]) | p | AB SK | MB |
| <i>Lacinipolia meditata</i> (Grote, 1873) | G | AB SK | MB |
| <i>Lacinipolia lustralis</i> (Grote, 1875) | G | AB SK | MB |
| <i>Lacinipolia anguina</i> (Grote, 1881) | G | AB SK | MB |
| <i>Lacinipolia longiclava</i> (Smith, 1891) * | G | AB SK | |
| <i>Lacinipolia naevia</i> (Smith, 1898) * | G | AB | |
| <i>Lacinipolia vicina</i> (Grote, 1874) | G | AB SK | MB |
| <i>Lacinipolia pensilis</i> (Grote, 1874) | G | AB | MB |
| <i>Lacinipolia renigera</i> (Stephens, 1829) | G | AB SK | MB |
| <i>Lacinipolia stricta</i> (Walker, 1865) | G | AB | U |
| <i>Lacinipolia lorea</i> (Guenée, 1852) | G | AB SK | MB |
| <i>Lacinipolia olivacea</i> (Morrison, 1874) | G | AB SK | MB |
| <i>Lacinipolia strigicollis</i> (Wallengren, 1860) | G | AB | |
| <i>Anhimella contrahens</i> (Walker, 1860) | G | AB SK | MB |
| <i>Homorthodes furfurata</i> (Grote, 1875) | G | AB SK | MB |
| <i>Protorthodes curtica</i> (Smith, 1890) | G | AB | P |
| <i>Protorthodes eureka</i> (Barnes & Benjamin, 1927) * | G | AB | |
| <i>Protorthodes incincta</i> (Morrison, 1874) | G | AB SK | MB |
| <i>Protorthodes oviduca</i> (Guenée, 1852) | G | AB SK | MB |
| <i>Ulolonche disticha</i> (Morrison, 1875) * | G | AB | |
| <i>Ulolonche orbiculata</i> (Smith, 1891) * | G | AB SK | MB |
| <i>Pseudorthodes vecors</i> (Guenée, 1852) | p | P | MB |
| <i>Orthodes majuscula</i> Herrich-Schäffer, 1868 | G | AB SK | MB |
| <i>Orthodes cynica</i> Guenée, 1852 | p | P SK | MB |
| " <i>Orthodes</i> " <i>goodelli</i> (Grote, 1875) | G | AB SK | MB |
| " <i>Orthodes</i> " <i>obscura</i> (Smith, 1888) | p | AB SK | MB |
| " <i>Orthodes</i> " <i>detracta</i> (Walker, 1857) | G | AB SK | MB |
| <i>Neleucania praegracilis</i> (Grote, 1877) * | G | AB | |
| <i>Tricholita signata</i> (Walker, 1860) | p | P | MB |
| Tribe Noctuidi | | | |
| Subtribe Agrotina | | | |
| <i>Peridroma saucia</i> (Hübner, [1808]) | G | M M | M |
| <i>Anicla tenuescens</i> (Smith, 1890) * | G | | MB |
| <i>Anicla exuberans</i> (Smith, 1898) | G | AB SK | MB |
| <i>Anicla tepperi</i> (Smith, 1888) | G | AB SK | MB |
| <i>Actebia fennica</i> (Tauscher, 1806) | p | AB SK | MB |
| <i>Actebia balanitis</i> (Grote, 1873) | G | AB SK | U |
| <i>Dichagyris variabilis</i> (Grote, 1874) | p | AB SK | |
| <i>Dichagyris reliqua</i> Lafontaine & Schweitzer, 2004 | G | | MB |
| <i>Copablepharon longipenne</i> Grote, 1882 * | G | AB SK | MB |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| <i>Copablepharon grandis</i> (Strecker, 1878) * | G | AB SK MB | |
| <i>Copablepharon viridisparsa</i> Dod, 1916 | G | AB SK MB | |
| <i>Protogygia enalaga</i> McDunnough, 1932 * | G | AB SK | |
| <i>Protogygia postera</i> Fauske & Lafontaine, 2004 | G | AB SK | |
| <i>Protogygia querula</i> (Dod, 1915) * | G | AB SK | |
| <i>Protogygia alberta</i> Troubridge & Lafontaine, 2004 * | G | AB | |
| <i>Protogygia pallida</i> Fauske & Lafontaine, 2004 * | G | AB | |
| <i>Euxoa bochus</i> (Morrison, 1874) | G | AB SK U | |
| <i>Euxoa adumbrata</i> (Eversmann, 1842) * | G | AB SK MB | |
| <i>Euxoa auxiliaris</i> (Grote, 1873) | G | AB SK MB | |
| <i>Euxoa mimallonis</i> (Grote, 1873) | G | AB SK MB | |
| <i>Euxoa septentrionalis</i> (Walker, 1865) | G | AB U | |
| <i>Euxoa olivia</i> (Morrison, 1876) | G | AB SK MB | |
| <i>Euxoa messoria</i> (Harris, 1841) | G | AB SK U | |
| <i>Euxoa divergens</i> (Walker, [1857]) | G | AB SK MB | |
| <i>Euxoa sinelinea</i> Hardwick, 1965 | p | AB MB | |
| <i>Euxoa edictalis</i> (Smith, 1893) | G | AB | |
| <i>Euxoa quebecensis</i> (Smith, 1900) | p | AB P | |
| <i>Euxoa scandens</i> (Riley, 1869) | G | AB SK MB | |
| <i>Euxoa aurulenta</i> (Smith, 1888) | G | AB SK MB | |
| <i>Euxoa tristicula</i> (Morrison, 1876) | G | AB SK MB | |
| <i>Euxoa atomaris</i> (Smith, 1890) | p | AB | |
| <i>Euxoa pleuritica</i> (Grote, 1876) | G | AB SK MB | |
| <i>Euxoa pestula</i> Smith, 1904 | G | AB SK MB | |
| <i>Euxoa simona</i> McDunnough, 1932 | G | AB SK | |
| <i>Euxoa medialis</i> (Smith, 1888) * | G | AB SK MB | |
| <i>Euxoa intrita</i> (Morrison, 1874) | G | AB SK MB | |
| <i>Euxoa setonia</i> McDunnough, 1927 | G | AB | |
| <i>Euxoa declarata</i> (Walker, 1865) | G | AB SK MB | |
| <i>Euxoa campestris</i> (Grote, 1875) | p | AB SK MB | |
| <i>Euxoa silens</i> (Grote, 1875) | G | AB U | |
| <i>Euxoa spumata</i> McDunnough, 1940 * | G | AB SK | |
| <i>Euxoa pallipennis</i> (Smith, 1888) | G | AB SK | |
| <i>Euxoa tessellata</i> (Harris, 1841) | G | AB SK MB | |
| <i>Euxoa plagigera</i> (Morrison, 1874) | G | AB SK | |
| <i>Euxoa albipennis</i> (Grote, 1876) | G | AB SK MB | |
| <i>Euxoa catenula</i> (Grote, 1879) | G | AB SK MB | |
| <i>Euxoa comosa</i> (Morrison, 1876) | G | AB SK MB | |
| <i>Euxoa velleripennis</i> (Grote, 1874) | p | P MB | |
| <i>Euxoa infausta</i> (Walker, 1865) | G | AB SK | |
| <i>Euxoa satis</i> (Harvey, 1876) | p | AB | |
| <i>Euxoa ochrogaster</i> (Guenée, 1852) | G | AB SK MB | |
| <i>Euxoa nostra</i> (Smith, 1890) | G | AB P | |
| <i>Euxoa siccata</i> (Smith, 1893) * | G | AB | |
| <i>Euxoa choris</i> (Harvey, 1876) | G | AB U | |
| <i>Euxoa obeliscoides</i> (Guenée, 1852) | G | AB SK MB | |
| <i>Euxoa oberfoelli</i> Hardwick, 1973 * | G | P SK | |
| <i>Euxoa basalis</i> (Grote, 1879) * | G | AB SK U | |
| <i>Euxoa castanea</i> Lafontaine, 1981 | G | AB SK MB | |
| <i>Euxoa idahoensis</i> (Grote, 1878) | G | AB SK U | |
| <i>Euxoa furtivus</i> (Smith, 1890) | G | AB SK | |
| <i>Euxoa clausa</i> McDunnough, 1923 * | G | AB SK | |
| <i>Euxoa brevipennis</i> (Smith, 1888) | G | AB SK | |
| <i>Euxoa servitus</i> (Smith, 1895) | G | AB SK MB | |
| <i>Euxoa redimicula</i> (Morrison, 1874) | G | SK MB | |
| <i>Euxoa auripennis</i> Lafontaine, 1974 | G | AB SK MB | |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| <i>Euxoa olivalis</i> (Grote, 1879) | G | AB SK | |
| <i>Euxoa oblongistigma</i> (Smith, 1888) | G | AB SK | |
| <i>Euxoa citricolor</i> (Grote, 1880) * | G | AB P | |
| <i>Euxoa tronellus</i> (Smith, 1903) * | G | AB SK | |
| <i>Euxoa teleboa</i> (Smith, 1890) * | G | AB SK | |
| <i>Euxoa difformis</i> (Smith, 1900) | G | AB SK | |
| <i>Euxoa moerens</i> (Grote, 1883) * | G | AB SK | |
| <i>Euxoa murdocki</i> (Smith, 1890) | G | AB | |
| <i>Euxoa dodi</i> McDunnough, 1923 * | G | AB SK | |
| <i>Euxoa infracta</i> (Morrison, 1875) | G | AB SK MB | |
| <i>Euxoa laetificans</i> (Smith, 1894) | G | AB SK | |
| <i>Euxoa quadridentata</i> (Grote & Robinson, 1865) | G | AB SK MB | |
| <i>Euxoa unica</i> McDunnough, 1940 * | G | P SK | |
| <i>Euxoa niveilinea</i> (Grote, 1882) * | G | AB SK MB | |
| <i>Euxoa dargo</i> (Strecker, 1898) | G | AB SK MB | |
| <i>Euxoa detera</i> (Walker, 1856) | G | AB SK MB | |
| <i>Euxoa cicatricosa</i> (Grote & Robinson, 1865) | G | AB SK | |
| <i>Euxoa aequalis</i> (Harvey, 1876) | G | AB SK MB | |
| <i>Euxoa munis</i> (Grote, 1879) | G | AB SK MB | |
| <i>Euxoa misturata</i> (Smith, 1890) * | G | AB SK | |
| <i>Euxoa nevada</i> (Smith, 1900) | G | AB SK | |
| <i>Euxoa cinereopallidus</i> (Smith, 1903) | G | AB SK | |
| <i>Euxoa mitis</i> (Smith, 1894) | G | AB SK | |
| <i>Euxoa aberrans</i> McDunnough, 1932 | G | AB SK MB | |
| <i>Euxoa manitobana</i> McDunnough, 1925 | G | AB SK MB | |
| <i>Euxoa perolivalis</i> (Smith, 1905) | G | AB SK MB | |
| <i>Euxoa perpolita</i> (Morrison, 1876) | G | AB SK MB | |
| <i>Euxoa taura</i> Smith, 1905 * | G | AB SK | |
| <i>Euxoa flavicollis</i> (Smith, 1888) | G | AB SK MB | |
| <i>Euxoa maimes</i> (Smith, 1903) | G | AB SK MB | |
| <i>Euxoa ridingsiana</i> (Grote, 1875) | G | AB SK MB | |
| <i>Feltia mollis</i> (Walker, [1857]) | p | AB SK MB | |
| <i>Feltia geniculata</i> (Grote & Robinson, 1868) | p | | MB |
| <i>Feltia jaculifera</i> (Guenée, 1852) | G | AB SK MB | |
| <i>Feltia subgothica</i> (Haworth, 1809) | G | P SK MB | |
| <i>Feltia tricola</i> (Lintner, 1874) | G | P P MB | |
| <i>Feltia herilis</i> (Grote, 1873) | G | AB SK MB | |
| <i>Agrotis vetusta</i> (Walker, 1856) | G | AB SK MB | |
| <i>Agrotis daedalus</i> (Smith, 1890) * | G | AB SK | |
| <i>Agrotis rileyana</i> Morrison, 1874 * | G | AB SK | |
| <i>Agrotis orthogonia</i> Morrison, 1876 * | G | AB SK MB | |
| <i>Agrotis kingi</i> McDunnough, 1932 * | G | P SK | |
| <i>Agrotis robustior</i> (Smith, 1899) * | G | AB SK MB | |
| <i>Agrotis venerabilis</i> Walker, [1857] | G | AB SK MB | |
| <i>Agrotis vancouverensis</i> Grote, 1873 | G | AB SK | |
| <i>Agrotis stigmata</i> Morrison, 1874 | G | AB SK MB | |
| <i>Agrotis volubilis</i> Harvey, 1874 | G | AB SK MB | |
| <i>Agrotis obliqua</i> (Smith, 1903) | G | AB SK MB | |
| <i>Agrotis ipsilon</i> (Hufnagel, 1766) | G | M M M | |
| Subtribe Noctuina | | | |
| <i>Ochropleura implecta</i> Lafontaine, 1998 | p | AB SK MB | |
| <i>Diarsia calgary</i> (Smith, 1898) | p | AB SK | |
| <i>Diarsia rubifera</i> (Grote, 1875) | p | AB SK MB | |
| <i>Diarsia rosaria</i> (Grote, 1878) | p | AB SK MB | |
| <i>Cerastis salicarum</i> (Walker, 1857) | p | AB SK MB | |
| <i>Paradiarsia littoralis</i> (Packard, 1867) | G | AB SK MB | |

| | Status | Occurrence | Introduced? |
|---|--------|------------|-------------|
| <i>Hemipachnobia monochromatea</i> (Morrison, 1874) | p | AB SK MB | |
| <i>Lycophotia phyllophora</i> (Grote, 1874) | p | AB SK MB | |
| <i>Rhyacia clemens</i> (Smith, 1890) | G | AB SK | |
| <i>Chersotis juncta</i> (Grote, 1878) | G | AB SK MB | |
| <i>Noctua pronuba</i> (Linnaeus, 1758) | G | AB SK MB | I |
| <i>Cryptocala acadensis</i> (Bethune, 1870) | G | AB SK MB | |
| <i>Spaelotis clandestina</i> (Harris, 1841) | G | AB SK MB | |
| <i>Spaelotis bicava</i> Lafontaine, 1998 | G | AB SK U | |
| <i>Eurois occulta</i> (Linnaeus, 1758) | p | AB SK MB | |
| <i>Eurois stricta</i> Morrison, 1874 | G | AB SK MB | |
| <i>Eurois nigra</i> (Smith, 1892) | p | AB SK | |
| <i>Graphiphora augur</i> (Fabricius, 1775) | p | AB SK MB | |
| <i>Anaplectoides prasina</i> ([Denis & Schiffermüller], 1775) | p | AB SK MB | |
| <i>Anaplectoides pressus</i> (Grote, 1874) | p | AB SK MB | |
| <i>Aplectoides condita</i> (Guenée, 1852) | p | AB SK MB | |
| <i>Eueretagrotis sigmoides</i> (Guenée, 1852) | G | U SK MB | |
| <i>Eueretagrotis perattentus</i> (Grote, 1876) | p | AB SK MB | |
| <i>Eueretagrotis attentus</i> (Grote, 1874) | p | SK MB | |
| <i>Xestia smithii</i> (Snellen, 1896) | G | AB SK MB | |
| <i>Xestia normanianus</i> (Grote, 1874) | p | AB SK MB | |
| <i>Xestia oblata</i> (Morrison, 1875) | p | AB SK MB | |
| <i>Xestia plebeia</i> (Smith, 1898) | p | AB | |
| <i>Xestia vernilis</i> (Grote, 1879) | p | AB | |
| <i>Xestia praevia</i> Lafontaine, 1998 | p | AB SK MB | |
| <i>Xestia c-nigrum</i> (Linnaeus, 1758) | G | AB SK MB | |
| <i>Xestia dolosa</i> Franclemont, 1980 | p | MB | |
| <i>Xestia speciosa</i> (Hübner, [1813]) | p | AB MB | |
| <i>Xestia perquiritata</i> (Morrison, 1874) | p | AB SK MB | |
| <i>Coenophila opacifrons</i> (Grote, 1878) | p | AB SK MB | |
| <i>Prognorisma substrigata</i> (Smith, 1895) | G | AB SK U | |
| <i>Agnorisma bugrai</i> (Kocak, 1983) | G | AB SK MB | |
| <i>Pseudohermonassa bicarnea</i> (Guenée, 1852) | G | AB SK MB | |
| <i>Pseudohermonassa tenuicula</i> (Morrison, 1874) | G | AB SK MB | |
| <i>Setagrotis radiola</i> (Hampson, 1903) * | G | AB | |
| <i>Parabagrotis exsertistigma</i> (Morrison, 1874) | G | AB SK MB | |
| <i>Protolampra rufipectus</i> (Morrison, 1875) | G | AB SK MB | |
| <i>Protolampra brunneicollis</i> (Grote, 1865) | G | AB SK U | |
| <i>Abagrotis erratica</i> (Smith, 1890) | G | AB | |
| <i>Abagrotis trigona</i> (Smith, 1893) | G | AB SK MB | |
| <i>Abagrotis vittifrons</i> (Grote, 1864) | G | AB SK U | |
| <i>Abagrotis nefascia</i> (Smith, 1908) | G | AB | |
| <i>Abagrotis reedi</i> Buckett, 1969 | G | AB SK MB | |
| <i>Abagrotis duanca</i> (Smith, 1908) | G | AB SK | |
| <i>Abagrotis nanalis</i> (Grote, 1881) | G | AB SK U | |
| <i>Abagrotis discoidalis</i> (Grote, 1876) * | G | AB | |
| <i>Abagrotis hermina</i> Lafontaine, 1998 | G | AB SK MB | |
| <i>Abagrotis dickeli</i> Lafontaine, 1998 | G | SK MB | |
| <i>Abagrotis placida</i> (Grote, 1876) | G | AB SK MB | |
| <i>Abagrotis orbis</i> (Grote, 1876) | G | AB SK U | |
| <i>Abagrotis variata</i> (Grote, 1876) | G | AB U | |
| <i>Abagrotis scopeops</i> (Dyar, 1904) | G | AB | |
| <i>Abagrotis alternata</i> (Grote, 1864) | G | AB SK MB | |
| <i>Abagrotis brunneipennis</i> (Grote, 1875) | G | AB SK MB | |
| <i>Abagrotis cupida</i> (Grote, 1865) | G | AB SK MB | |
| <i>Abagrotis anchocelioides</i> (Guenée, 1852) | G | MB | |
| <i>Pronoctua peabodyae</i> (Dyar, 1903) | G | AB | |

Conclusions

The Prairies Ecozone supports a diverse fauna of butterflies and moths, with 2,232 species recorded, about 43% of the entire Lepidoptera fauna of Canada. The high diversity of butterflies and moths in the Prairies Ecozone results in part from the large number of forest-associated species that are mainly in the Boreal Plains and Montane Cordillera ecozones but occur in the Prairies Ecozone in wooded areas. Our knowledge of the Lepidoptera fauna of the ecozone in terms of distribution, abundance, habitat requirements, and life history varies greatly from group to group. These data are well-known only for a few groups such as the butterflies and some families of large moths (e.g., giant silk moths (Saturniidae) and sphinx moths (Sphingidae)). Other groups, such as owlet moths (Noctuidae and Erebidae), inchworm moths (Geometridae), and prominent moths (Notodontidae), are moderately well-known, at least in terms of general distribution and abundance. Most of the 42 families of microlepidoptera are poorly known in the ecozone.

There are three main terrestrial habitat types within the ecozone: (1) deciduous woodlands, which form a transition zone between the open grasslands to the south and the forests of the Boreal Plains Ecozone to the north, the Boreal Shield Ecozone to the east, and the Montane Cordillera Ecozone to the west; (2) prairie thickets, which are formed from a variety of flowering, low-growing shrubs, which offer food, shelter, and nesting sites to species in the ecozone; and (3) open aridlands, which include grasslands, badlands, and dune habitats.

Compared with other ecozones, the Prairies Ecozone harbours a large number of Lepidoptera species at risk. The most serious threats are related to conversion of native prairie into agricultural lands. The most threatened habitats within the ecozone are the tallgrass prairie of southern Manitoba and dune habitats.

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Arthropods of Canadian Grasslands

Volume 4:
*Biodiversity and
Systematics*
Part 2



Edited by
Donna J. Giberson and Héctor A. Cárcamo



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Commission biologique du Canada



1. Fraser River at Chilcotin R. junction, BC (Photo: Robert Cannings); 2. Valley slope grassland at Misery Mountain, near Peace River, AB (Photo: Chris Schmidt); 3. Ranch lands along Highway 21 south of Cypress Hills, SK (Photo: Penny MacKinnon). 4. West of Bindloss, along the Red Deer River valley, AB (Photo: Mark Oliver); 5. Grassland National Park (East Block), in SE Saskatchewan (Photo: Henri Goulet); 6. Near St.-Lazare, MB (NW of Brandon) (Photo: Cary Hamel, Nature Conservancy of Canada); 7. Near Gardenton, MB (south of Winnipeg) (Photo: Cary Hamel, Nature Conservancy of Canada); 8. Near Belleville, ON (Photo: Andy Hamilton).

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