

Specimen records for North American Lepidoptera (Insecta) in the Oregon State Arthropod Collection. Pyraloidea: Crambidae Latreille 1810 and Pyralidae Linnaeus, 1758

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Introduction

These records were generated using funds from the LepNet project (Seltmann et al. 2017) - a national effort to create digital records for North American Lepidoptera. The dataset published herein contains the label data for all North American specimens of Crambidae in the collection as of March 2019. This dataset is not complete, as portions of our North American Pyralidae remain to be digitized. This will be accomplished with a future dataset. A *beta version* of these data records will be made available on the OSAC server (<http://osac.oregonstate.edu/IPT>) at the time of this publication. The beta version will be replaced in the near future with an official release (version 1.0), which will be archived as a supplemental file to this paper.

Methods

Basic digitization protocols and metadata standards can be found in (Shepard et al. 2018). Identifications for this family are tricky, especially in the Pacific Northwest where the pyraloid fauna remains relatively unstudied. As a result, providing determinations to species, or even genus, was not always possible. In the interest of making these specimens visible to taxonomists, we include even those specimens identified only to family. Generic and species determinations were reviewed prior to digitization by Jon Shepard and Paul Hammond using (Group 2019). Nomenclature follows that of the Digital Guide to Moth Identification (Group 2019).

Results

Crambidae: There are 3461 specimens identified at species-level (species or subspecies), with another 123 specimens identifiable only to genus. The following genera are present: *Achroia* Hübner, 1819, *Achyra* Guenée, 1849, *Agathodes* Guenée, 1854, *Agriphila* Hübner, 1825, *Anageshna* Munroe, 1956, *Anania* Hübner, 1923, *Anatralata* Munroe, 1961, *Blepharomastix* Lederer, 1863, *Catoptria* Hübner, 1825, *Chalcoela* Zeller, 1872, *Choristostigma* Warren, 1892, *Chrysoteuchia* Hübner, 1825, *Clydonopteron* Riley, 1880, *Cosipara* Munroe, 1972, *Crambus* Fabricius, 1798, *Crociphora* Lederer, 1863, *Desmia*

Westwood, 1832, *Diaphania* Hübner, 1818, *Diastictis* Hübner, 1818, *Dicymolomia* Zeller, 1872, *Donacula* Meyrick, 1890, *Euchromius* Guenée, 1845, *Eudonia* Billberg, 1820, *Eurrhyncha* Hübner, 1825, *Evergestis* Hübner, 1825, *Fissicrambus* Bleszynski, 1963, *Frechinia* Munroe, 1961, *Fumibotys* Munroe, 1976, *Galleria* Fabricius, 1798, *Gesneria* Hübner, 1925, *Gyros* Edwards, 1881, *Hahncappisia* Munroe, 1976, *Herpetogramma* Lederer, 1863, *Loxostege* Hübner, 1825, *Macrotheca* Ragonot, 1891, *Mecyna* Doubleday, 1849, *Microcrambus* Bleszynski, 1963, *Microtheoris* Meyrick, 1932, *Mimoschinia* Warren, 1892, *Neodactria* Landry, 1995, *Noctueliopsis* Munroe, 1961, *Nomophila* Hübner, 1825, *Occidentalia* Dyar & Heinrich, 1927, *Oreanaia* Duponchel, 1845, *Ostrinia* Hübner, 1825, *Palpita* Hübner, 1808, *Parapeiacia* Bleszynski, 1966, *Parapoynx* Hübner, 1825, *Pediasia* Hübner, 1825, *Perispasta* Zeller, 1875, *Petrophila* Guilding, 1830, *Phlyctaenia* Kützing, 1849, *Pogonogenys* Munroe, 1961, *Procymbopteryx* Munroe, 1961, *Prorasea* Grote, 1878, *Pseudoschoenobius* Fernald, 1891, *Pyrausta* Schrank, 1802, *Saucrobotys* Munroe, 1976, *Scoparia* Haworth 1811, *Sitochroa* Hübner, 1825, *Spoladea* Guenée, 1854, *Tehama* Hulst, 1888, *Thaumatopsis* Morrison, 1874, *Tosale* Walker, 1863, *Udea* Guenée, 1845, *Uresiphita* Hübner, 1825, *Urola* Walker, 1863 (Table 1).

Pyralidae: Of the pyralid specimens digitized at this time, only 24, belonging to the subfamily Phycitinae, could not be identified to genus; an additional 157 specimens could only be identified at the generic level. To date, 1383 specimens of North American Pyralidae were identified to species-level (species or subspecies) and digitized, belonging to the following genera: *Acrobasis* Zeller, 1839, *Acrobasis* Zeller, 1839, *Acroncosa* Barnes & McDunnough, 1917, *Aglossa* Latreille, 1796, *Alberada* Heinrich, 1939, *Ambesa* Grote, 1880, *Amyelois* Amsel, 1956, *Ancylosis* Zeller, 1839, *Bandera* Ragonot, 1887, *Dasypyga* Ragonot, 1887, *Dioryctria* Zeller, 1846, *Ephestia* Guenée, 1845, *Ephestiodes* Ragonot, 1887, *Etiella* Zeller, 1839, *Euzophera* Zeller, 1867, *Homoeosoma* Curtis, 1833, *Honora* Grote, 1878, *Hypsopygia* Hübner, 1825, *Interjectio* Heinrich, 1956, *Laetilia* Ragonot, 1889, *Lipographis* Ragonot, 1887, *Macalla* Walker, 1859, *Melitara* Walker, 1863, *Myelopsis* Heinrich, 1956, *Olybria* Heinrich, 1956, *Oneida* Hulst, 1889, *Phobus* Heinrich, 1956, *Phycitodes* Hampson, 1917, *Pima* Hulst, 1888, *Plodia* Guenée, 1845, *Pococera* Zeller, 1848, *Promylea* Ragonot, 1887, *Pyla* Grote, 1882, *Pyralis* Linnaeus, 1758, *Rostrolaetilia* Blanchard & Ferguson, 1975, *Sarata* Ragonot, 1887, *Sciota* Hulst, 1888, *Toripalpus* Grote, 1878, *Vitula* Ragonot, 1887, *Zophodia* Hübner, 1825 (Table 2).

Table 1. Crambidae

Taxon #specimens

<i>Achroia grisella</i> (Fabricius, 1794)	17
<i>Achyra occidentalis</i> Packard, 1873	5
<i>Achyra rantalis</i> Guenée, 1854	7
<i>Agathodes designalis</i> Guenée, 1854	5
<i>Agriphila anceps</i> Grote, 1880	1
<i>Agriphila attenuatus</i> Grote, 1880	6
<i>Agriphila biothanatalis</i> Hulst, 1886	132
<i>Agriphila plumbifimbriellus</i> Dyar, 1904	79
<i>Agriphila undatus</i> Grote	2
<i>Anageshna primordialis</i> Dyar, 1906	1
<i>Anania funebris</i> (Strom, 1768)	7
<i>Anania mysippusalis</i> (Walker, 1859)	8

Table 1 (continued)

Taxon	#specimens
<i>Anatralata versicolor</i> Warren, 1892	1
<i>Blepharomastix ranalis</i> (Guenée, 1854)	2
<i>Catoptria latiradiellus</i> Walker, 1863	2
<i>Catoptria oregonicus</i> Grote	17
<i>Chalcoela iphitalis</i> Walker, 1859	15
<i>Choristostigma elegantalis</i> Warren, 1892	4
<i>Chrysoteuchia topiarius</i> Zeller, 1866	173
<i>Clydonopteron</i> undetermined	1
<i>Cosipara tricoloralis</i> Dyar, 1904	27
<i>Crambus agitatellus</i> Clemens, 1861	2
<i>Crambus dimidiatus</i> Haworth, 1809	1
<i>Crambus gausapalis</i> Hulst, 1886	3
<i>Crambus girardellus</i> Clemens, 1860	1
<i>Crambus leachellus</i> Zincken, 1818	210
<i>Crambus pascuella floridus</i> Zeller, 1873	3
<i>Crambus perlella innotatellus</i> Walker, 1863	5
<i>Crambus sperryellus</i> Klots, 1940	20
<i>Crambus tutillus</i> McDunnough, 1921	129
<i>Crambus unistriatellus</i> Packard, 1868	44
<i>Crambus</i> undetermined	24
<i>Crocidophora serratissimalis</i> Zeller, 1872	1
<i>Desmia funeralis</i> Hübner	2
<i>Desmia maculalis</i> Westwood, 1831	13
<i>Diaphania hyalinata</i> (Linnaeus, 1767)	1
<i>Diaphania nitidalis</i> (Stoll, 1781)	2
<i>Diastictis fracturalis</i> (Zeller, 1872)	7
<i>Diastictis robustior</i> Munroe, 1956	5
<i>Diastictis sperryorum</i> Munroe, 1956	1
<i>Dicymolomia metalliferalis</i> Packard, 1873	51
<i>Donacaula melinellus</i> Clemens, 1861	1
<i>Donacaula</i> undetermined	1
<i>Euchromius ocella</i> (Haworth, 1811)	148
<i>Eudonia commortalis</i> Dyar, 1921	3
<i>Eudonia echo</i> Dyar, 1928	1
<i>Eudonia leucophthalma</i> Dyar, 1928	2
<i>Eudonia rectilineata</i> Li, Li & Nuss, 2012	1

Table 1 (continued).

Taxon	#specimens
<i>Eudonia spenceri</i> Munroe, 1972	18
<i>Eudonia torniplagalis</i> Dyar, 1904	1
<i>Eurrhyncha hortulata</i> Linnaeus, 1758	5
<i>Evergestis eurekaalis</i> Barnes & McDunnough, 1914	7
<i>Evergestis funalis</i> (Grote, 1878)	14
<i>Evergestis pallidata</i> (Hufnagel, 1767)	22
<i>Evergestis rimosalis</i> Guenée, 1854	1
<i>Evergestis simulatilis</i> Grote, 1880	7
<i>Evergestis subterminalis</i> Barnes & McDunnough, 1914	10
<i>Fissicrambus mutabilis</i> (Clemens, 1860)	2
<i>Frechinia helianthiales</i> (Murt., 1897)	1
<i>Frechinia laetalis</i> Barnes & McDunnough, 1914	1
<i>Fumibotys fumalis</i> Guenée, 1854	13
<i>Galleria mellonella</i> (Linnaeus, 1758)	72
<i>Gesneria centuriella</i> (Denis & Schiffermuller, 1775)	4
<i>Gyros muiri</i> Edwards, 1881	19
<i>Hahncappisia coloradensis</i> Grote & Robinson, 1867	3
<i>Herpetogramma abdominalis</i> Zeller	4
<i>Herpetogramma pertextalis</i> Lederer, 1863	174
<i>Herpetogramma thestealis</i> Walker, 1859	1
<i>Loxostege anartalis</i> Grote, 1877	9
<i>Loxostege cereralis</i> Zeller, 1872	30
<i>Loxostege ephippialis</i> (Zetterstedt, 1839)	1
<i>Loxostege indentalis</i> (Grote, 1883)	39
<i>Loxostege lepidalis</i> Hulst, 1886	79
<i>Loxostege sierralis</i> Munroe, 1976	12
<i>Loxostege sticticalis</i> (Linnaeus, 1761)	15
<i>Loxostege terpnalis</i> Barnes & McDunnough, 1918	2
<i>Macrotheca ponda</i> (Dyar, 1907)	2
<i>Mecyna mustelinalis</i> Packard, 1873	66
<i>Microcrambus elegans</i> Clemens, 1860	2
<i>Microtheoris ophionalis</i> Walker, 1859	26
<i>Mimoschinia rufofascialis</i> (Stephens, 1834)	21
<i>Neodactria luteolellus</i> Clemens, 1860	43
<i>Noctueliopsis virula</i> Barnes & McDunnough, 1918	2
<i>Nomophila nearctica</i> Munroe, 1973	76

Table 1 (continued)

Taxon	#specimens
<i>Occidentalia comptulatalis</i> Hulst, 1886	4
<i>Oreanaia arcticalis</i> Munroe, 1974	1
<i>Ostrinia nubilalis</i> (Hubner, 1796)	6
<i>Ostrinia penitalis</i> Grote, 1876	5
<i>Palpita magniferalis</i> Walker, 1861	9
<i>Parapediasia teterrellus</i> (Zincken, 1821)	71
<i>Parapopynx badiusalis</i> Walker, 1859	9
<i>Parapopynx obscuralis</i> Grote, 1881	2
<i>Pediasia browerellus</i> Klots, 1942	1
<i>Pediasia dorsipunctellus</i> Kearfott, 1908	133
<i>Pediasia trisecta</i> Walker, 1856	145
<i>Perispasta caeculalis</i> Zeller, 1875	12
<i>Petrophila avernalis</i> Grote, 1878	3
<i>Petrophila confusalis</i> Walker, 1865	65
<i>Phlyctaenia coronata</i> Hufnagel, 1767	29
<i>Pogonogenys proximalis</i> Fernald	2
<i>Procymbopteryx belialis</i> Druce, 1899	1
<i>Prorasea praeia</i> Dyar, 1917	2
<i>Prorasea simalis</i> Grote, 1878	9
<i>Pseudoschoenobius opalescalis</i> Hulst, 1886	10
<i>Pyrausta acronalis</i> Walker, 1859	1
<i>Pyrausta californicalis</i> Packard, 1873	81
<i>Pyrausta dapalis</i> Grote, 1881	2
<i>Pyrausta fodinalis</i> Lederer, 1863	41
<i>Pyrausta grotei</i> Munroe, 1876	9
<i>Pyrausta nexalis</i> (Hulst 1886)	6
<i>Pyrausta laticlavata</i> Grote & Robinson, 1867	4
<i>Pyrausta linealis</i> Fernald, 1894	1
<i>Pyrausta nicalis</i> Grote, 1878	29
<i>Pyrausta perrubralis</i> Packard, 1873	38
<i>Pyrausta pilatealis</i> Barnes & McDunnough, 1914	1
<i>Pyrausta pseuderosnealis</i> Munroe, 1976	1
<i>Pyrausta semirubralis</i> Packard, 1873	20
<i>Pyrausta signatalis</i> Walker, 1865	2
<i>Pyrausta subsequalis</i> Guenée, 1854	48
<i>Pyrausta unifascialis</i> Packard, 1873	57

Table 1 (continued).

Taxon	#specimens
<i>Pyrausta volupialis</i> Grote, 1877	21
<i>Saucrobotys fumoferalis</i> Hulst, 1886	21
<i>Saucrobotys futilalis</i> Lederer, 1863	5
<i>Scoparia biplagialis</i> Walker, 1865	11
<i>Sitochroa chortalis</i> Grote, 1874	11
<i>Sitochroa palealis</i> (Denis & Schiffermuller, 1775)	3
<i>Spoladea recurvalis</i> (Fabricius, 1775)	2
<i>Tehama bonifatellus</i> Hulst, 1887	236
<i>Thaumatopsis fernaldella</i> Kearfott, 1905	4
<i>Thaumatopsis repandus</i> Grote, 1880	2
<i>Tosale oviplagalis</i> Walker, 1866	4
<i>Udea</i> undetermined	1
<i>Udea itysalis</i> Walker, 1859	7
<i>Udea itysalis tillialis</i>	15
<i>Udea profundalis</i> Packard, 1873	257
<i>Udea rubigalis</i> (Guenee, 1854)	2
<i>Udea vacunalis</i> (Grote, 1881)	1
<i>Udea washingtonalis</i> (Grote, 1881)	20
<i>Uresiphita reversalis</i> Guenée, 1854	3
<i>Urola nivalis</i> (Drury, 1773)	1

Table 2

Taxon	#specimens
<i>Acrobasis caliginella</i> (Hulst, 1878)	19
<i>Acrobasis tricolorella</i> Grote, 1878	98
<i>Acroncosa albiflavella</i> Barnes & McDunnough, 1917	1
<i>Aglossa cacamica</i> Dyar, 1914	7
<i>Aglossa pinguinalis</i> (Linnaeus, 1758)	6
<i>Alberada californiensis</i> Neunzig, 1997	2
<i>Ambesa laetella</i> Grote, 1880	25
<i>Ambesa walsinghamsi</i> Ragonot, 1887	22
<i>Amyelois transitella</i> (Walker, 1863)	5
<i>Ancylosis albipenella</i> (Hulst, 1887)	1
<i>Ancylosis morrisonella</i> Ragonot, 1887	55
<i>Ancylosis undulatella</i> Clemens, 1860	15
<i>Bandera virginella</i> Dyar, 1908	1
<i>Dasypyga alternosquamella</i> Ragonot, 1887	29
<i>Dioryctria</i> undetermined	54
<i>Dioryctria abietivorella</i> Grote, 1878	116
<i>Dioryctria albovittella</i> Hulst, 1890	21
<i>Dioryctria auranticella</i> Grote, 1883	36
<i>Dioryctria cambiicola</i> Dyar, 1914	48
<i>Dioryctria durangoensis</i> Mutuura & Neunzig, 1986	1
<i>Dioryctria erythropasa</i> Dyar, 1914	1
<i>Dioryctria pentictonella</i> Mutuura, Munroe & Ross, 1969	74
<i>Dioryctria ponderosae</i> Dyar, 1914	3
<i>Dioryctria pseudotsugella</i> Munroe, 1959	219
<i>Dioryctria rossi</i> Munroe, 1959	4
<i>Dioryctria tumicolella</i> Mutuura, Munroe & Ross, 1969	4
<i>Ephestia elutella</i> (Hubner, 1796)	5
<i>Ephestia kuehniella</i> Zeller, 1879	24
<i>Ephestiodes gilvescentella</i> Ragonot, 1887	8
<i>Ephestiodes</i> undetermined	1
<i>Etiella zinckenella</i> (Treitschke, 1832)	9
<i>Euzophera semifuneralis</i> Walker, 1863	20
<i>Homoeosoma electella</i> Hulst, 1887	10
<i>Honora dotella</i> Dyar, 1910	3
<i>Honora mellinella</i> Grote, 1878	7
<i>Hypsopygia costalis</i> (Fabricius, 1775)	28
<i>Hypsopygia</i> undetermined	1

Table 2 (continued).

Taxon	#specimens
<i>Hypsopygia phoezalis</i> (Dyar, 1908)	19
<i>Interjectio</i> undetermined	17
<i>Interjectio columbiella</i> McDunnough, 1935	2
<i>Interjectio denticulella</i> Ragonot, 1887	5
<i>Interjectio niviella</i> Hulst, 1888	2
<i>Laetilia dilatifasciella</i> (Ragonot, 1887)	1
<i>Laetilia zamacrella</i> Dyar, 1925	23
<i>Lipographis fenestrella</i> Packard, 1874	14
<i>Macalla zelleri</i> Grote, 1876	3
<i>Melitara subumbiella</i> Dyar	11
<i>Myelopsis alatella</i> Hulst, 1887	1
<i>Myelopsis minutularia</i> Hulst, 1887	1
<i>Olybria aliculella</i> Hulst, 1887	3
<i>Oneida</i> undetermined	3
<i>Phobus brucei</i> Hulst, 1895	5
<i>Phobus curvatella</i> Ragonot, 1887	6
<i>Phycitodes albatella</i> (Ragonot, 1887)	2
<i>Phycitodes mucidella</i> (Ragonot, 1887)	4
<i>Phycitodes reliquellum</i> (Dyar, 1904)	17
<i>Pima albiplagiata</i> Packard, 1874	2
<i>Pima fergusonii</i> Neunzig, 2003	3
<i>Pima fosterella</i> Hulst, 1888	10
<i>Pima occidentalis</i> Heinrich, 1956	2
<i>Plodia</i> undetermined	22
<i>Plodia interpunctella</i> (Hubner, 1813)	45
<i>Pococera aplastella</i> Hulst, 1888	1
<i>Promylea lunigerella</i> Ragonot, 1887	2
<i>Pyla aeneoviridella</i> Ragonot, 1887	28
<i>Pyla aenigmatica</i> Heinrich, 1956	19
<i>Pyla fusca</i> Haworth, 1811	45
<i>Pyla</i> undetermined	24
<i>Pyla scintillans</i> Grote, 1881	4
<i>Pyla westerlandi</i> Wilterding & Balogh, 2002	5
<i>Pyrallis farinalis</i> (Linnaeus, 1758)	58
<i>Rostrolaetilia minimella</i> Blanchard & Ferguson, 1975	2
<i>Sarata caudellella</i> Dyar, 1904	1

Table 2 (continued)

Taxon	#specimens
<i>Sarata edwardsialis</i> Hulst, 1886	1
<i>Sarata incanella</i> Hulst, 1895	2
<i>Sarata perfuscalis</i> Hulst, 1886	4
<i>Sarata pullatella</i> Ragonot, 1887	12
<i>Sciota</i> undetermined	15
<i>Sciota levigatella</i> (Hulst, 1892)	1
<i>Sciota tarmitalis</i> (Hulst, 1886)	4
<i>Toripalpus breviornatalis</i> Grote, 1878	2
<i>Toripalpus trabalis</i> Grote	23
<i>Vitula edmandsii</i> (Packard, 1865)	25
<i>Vitula pinei</i> Heinrich, 1956	6
<i>Vitula</i> undetermined	29
<i>Zophodia grossulariella</i> (Hubner, 1809)	5
Pyralidae: Phycitinae undetermined	24

Additional material from outside of North America is present, but was not digitized and catalogued at this time.

Label data for these specimens can be accessed via online data portals that serve osac IPT data (e.g., www.gbif.org) or by direct download via the archived datasets stored in the supplemental files of this paper.

Discussion:

Minor corrections and other small modifications made in the future to this dataset will be accomplished by issuing a new version and providing a file of modified records to the supplemental files. Major additions, such as new records, new data fields, new contributors or other significant modifications will be accomplished through the generation and release of new datasets.

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