

## Specimen records for North American Lepidoptera (Insecta) in the Oregon State Arthropod Collection. Zygaenoidea: Zygaenidae, Latreille 1809, Limacodidae, Moore 1879, Dalceridae Dyar, 1898 and Megalopygidae Herrich-Schäffer, 1855

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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 Zygaenidae, Limacodidae, Dalceridae and Megalopygidae residing at the Oregon State Arthropod Collection as of March 2019. 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 were confirmed prior to determination by Jon Shepard and Paul Hammond using the online Digital Guide to Moth Identification website (Moth Photographers Group, 2019). Nomenclature was confirmed using the species matching tool provided by GBIF (<https://www.gbif.org/tools/species-lookup>).

### Results

The collection has only 232 specimens of North American Zygaenoidea, the vast majority of which (204) belong to the family Limacodidae. The genera present are: Dalceridae: *Dalcerides* Neumoegen and Dyar, 1893; Limacodidae: *Euclea* Hübner, 1819, *Isa* Packard, 1864, *Lithacodes* Packard, 1864, *Monoleuca* Grote & Robinson, 1868, *Parasa* Moore, 1859, *Prolimacodes* Schaus, 1896, *Tortricidia* Packard, 1864; Megalopygidae: *Megalopyge* Hübner, 1820; and Zygaenidae: *Harrisina* Packard, 1864 (Table 1).

**Table 12.** Species inventory of OSAC North American Zygaenoidea

Family	Taxon	# specimens
Dalceridae	<i>Dalcerides ingenita</i> Edwards, 1882	1
Limacodidae	<i>Euclea delphinii</i> Boisduval, 1832	19
	<i>Euclea obliqua</i> Edwards, 1886	3
	<i>Isa schaefferana</i> Dyar, 1905	2
	<i>Lithacodes fasciola</i> Herrich-Schäffer, 1854	2
	<i>Monoleuca occidentalis</i> Barnes & McDunnough, 1912	6
	<i>Parasa chloris</i> Herrich-Schäffer, 1854	3
	<i>Prolimacodes badia</i> Hübner, 1835	3
	<i>Prolimacodes trigona</i> Edwards, 1882	9
	<i>Tortricidia flexuosa</i> Grote, 1880	2
	<i>Tortricidia testacea</i> Packard, 1864	155
Megalopygidae	<i>Megalopyge crispata</i> Packard, 1864	2
	<i>Megalopyge opercularis</i> Smith & Abbot, 1797	5
Zygaenidae	<i>Harrisina metallica</i> Stretch, 1885	20
	total	232

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](http://www.gbif.org)) or by direct download via the archived datasets stored in the supplemental files of this paper.

## Discussion

Owing to their relative scarcity in North America and the Pacific Northwest it is not surprising that the OSAC possesses few examples of the Zygaenoidea. The vast majority of the holdings belong to the family Limacodidae, and a single species in particular: *Tortricidia testacea* Packard, 1864 which is common in the Pacific Northwest. Only a single example of the family Dalceridae is present, and only 7 examples of the Megalopygidae which are from the American southwest. Although Oregon has a native zygaenid: *Harrisina metallica* Stretch, 1885, the 20 specimens in the collection were obtained in California or elsewhere outside of the Pacific Northwest. The species is reported in southwestern Oregon where it can be a pest on grapes and vineyards. Voucher material from Oregon should be targeted in the future to ensure the local populations are represented.

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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## References

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Shepard J.H., C.J. Marshall, P.C. Hammond. 2018. North American Lepidoptera in the Oregon State Arthropod Collection: HesperIIDae, Pieridae, Papilionidae. Catalog: Oregon State Arthropod Collection 2(2): 1-2 and supplement file.  
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