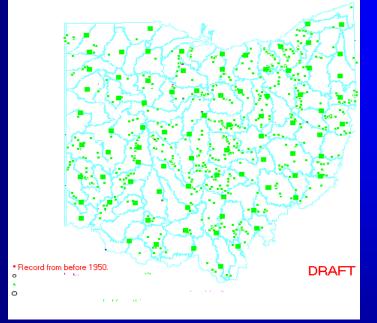


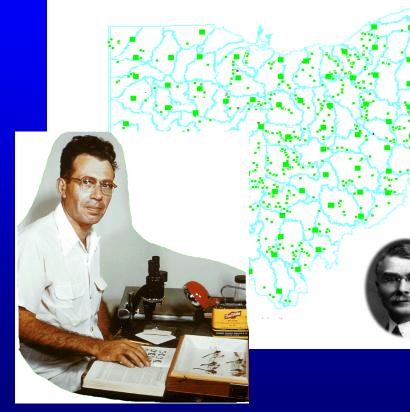
History of Odonata Study in Ohio



Dave McShaffrey Biology Department Marietta College



History of Odonata Study in Ohio



Dave McShaf



Biology Department Marietta College



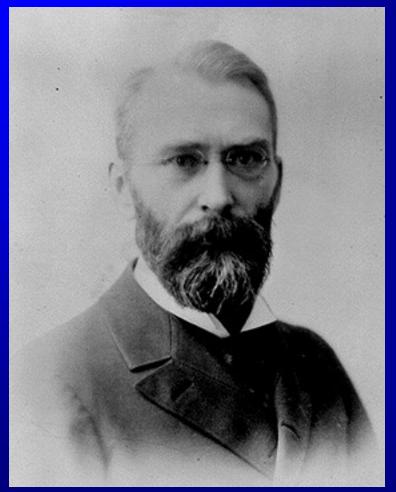
4 E Epocheshs

- Before Borror 1890-1930
- Borror/Price/Alrutz 1930-1990
- Ohio Odonata Survey 1990-2002
- Rise of the internet 2002 ????
- 2017 Ohio Odonata Survey 2.0

In the beginning....

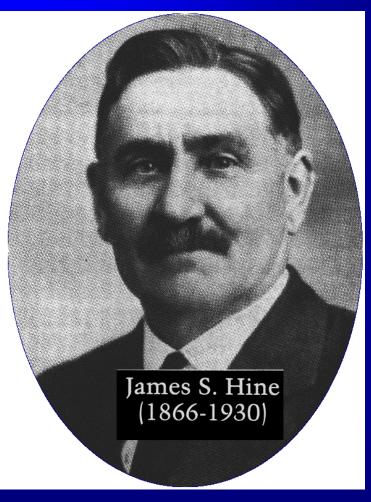
David Simons Kellicott

- 1842 1899
- First 7 publications on Ohio Odonata
- Charter Member of Ohio Academy of Science
- President of Ohio Academy of Science (1898)



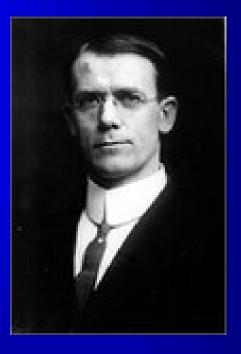
James Stewart Hine

- 1866 1930
- 280+ specimens
- Sandusky, Columbus area
- Kent, Indian Lake, Cedar Swamp
- B.S. from OSU 1893
- Professor at OSU 1894 1930
- First Curator of Natural History at the Ohio State Archaeological and Historical Museum
- Probably was instructor for Osburn, Williamson
- Collected from 1896-1930



R.C. Osburn

- Raymond Carroll Osburn
- 1872 1955
- 450+ specimens
- Erie County, Columbus area
- OSU (B.S., M.S.) Columbia (Ph.D.)
- Classmate of E.B. Williamson
- Chair, Department of Zoology and Entomology, OSU
- Director of Stone Lab
- Collected from 1896-1942



Edward Bruce Williamson

- 1878 1933
- 109 records
- Sandusky, Columbus area
- Northern, western Ohio
- Banker, Iris farmer, Odonata collector
- Ohio State Graduate (1898)
- Taught, collected in Columbia County
- Curator of Odonata, Michigan Zoological Museum
- Collected from 1896-1932



Clarence Hamilton Kennedy

- 1879 1952
- 385+ specimens
- Bass Islands
- Degrees from Indiana, Stanford Cornell
- Professor at OSU
- Instructor at Stone Lab
- Specialist in Odonata
- Advisor to D.J. Borror
- Collected from 1915? 1918 1941



The Big 3 – Borror, Price, Alrutz

Donald Joyce Borror

- 1909 1988
- 5625+ specimens
- Statewide collections
- Degrees from Otterbein, OSU
- Professor at OSU 1930 1977
- Pioneer in Bioacoustics
 - 14,000 recordings
 - 525 species
- 16 publications on insects
- Advisor to Bob Restifo
- Collected from 1926-1982



Homer F. Price

- 1895 1987
- 4,220+ specimens
- Northwestern Ohio
- 15,000 specimens of insects in Museum of Biological Diversity
- Collected from 1921-1965 (most from 1941-1963)

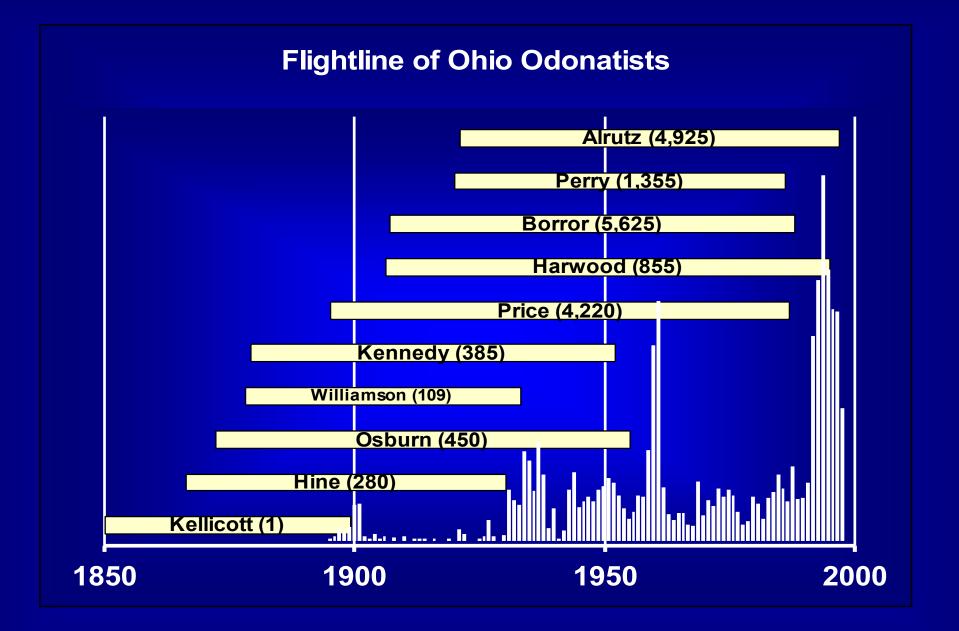


Fig. 2.17 Homer F. Price (1895-1987) and his wife, Gladys, at home in 1963. Source: Butterflies and Skippers of Ohio. 1992



/. Alrutz

- 1921 1997
- 4,925+ specimens
- 1st worker to really collect statewide
- Collected in 81 of 88
 counties
- Degrees from Pittsburgh and Illinois
- Professor at Dennison 1952-1990
- Collected from 1955-1993
- Co-founder and first Honorary Life Member of the Ohio Odonata Survey



Other Ohio Odonatists of Note

- Clem Uhler
- B.E. Montgomery (135)
- Paul Harwood (855)
- T.E. Perry (1,355)
- R.K. Finley (155)
- N.W. Britt (110)
- Bernie Counts
- Bob Glotzhober (1,220)
- Bob Restifo (3,590)
- Dan Riggs (1,185)
- Mark Dillon (700)

- Mike Greene (645)
- Dave McShaffrey (640)
- Steve Chordas (545)
- Dwight Moody (420)
- Alice Phillips (324)
- Lou Gardella
- Doug Horvath
- Eric R. Eaton
- Carmen Trisler
- Larry Rosche
- Judy Semroc
- Linda Gilbert

The Ohio Odonata Survey

- Ohio Odonata Survey 1990 to 2001.
- Directed by Bob Glotzhober.
- Assisted by about 250 volunteers.
- Funded by ODNR Division of Wildlife.
- Drew on example of Ohio Lepidopterists.
- Assembled database of over 25,000 records.
 1/3 of these by survey members

First Meeting of the Ohio Odonata Survey Steering Committee

January 31, 1990

Committee Members, 1990

Dr. Robert W. Alrutz, Denison Dr. Susan Heady, OSU John Bater, OSU Robert C. Glotzhober, OHS Dr. Dwight L. Moody, Findlay Robert A. Restifo, ODH

The Ohio Odonata Survey

- Documented 162 species of Odonata.
- Produced 364 page book, published in 2002.
- Developed web site which was on first page of Google and AltaVista searches.
- Metamorphosed into the Ohio Odonata Society.

The Dragonflies and Damselflies of Ohio



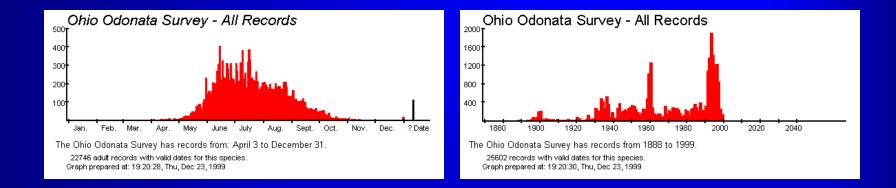
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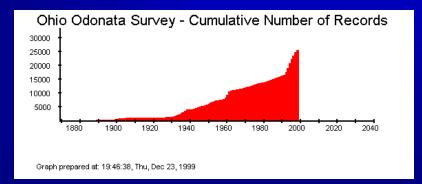
Robert C. Glotzhober and David McShaffrey

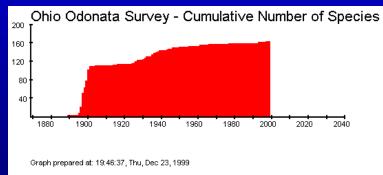
Ohio Biological Survey

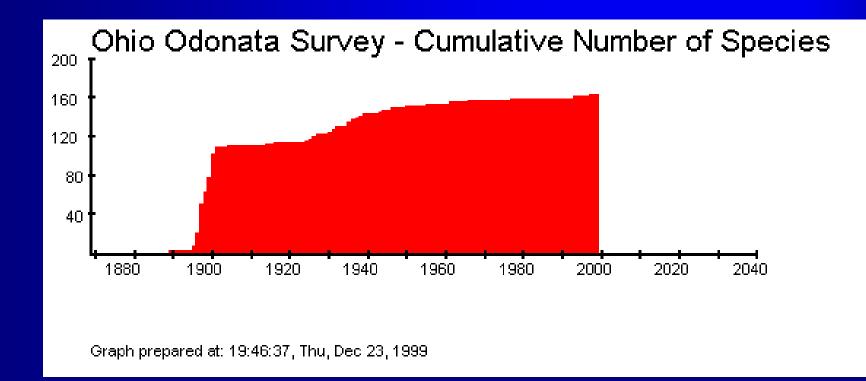
2002 Publication

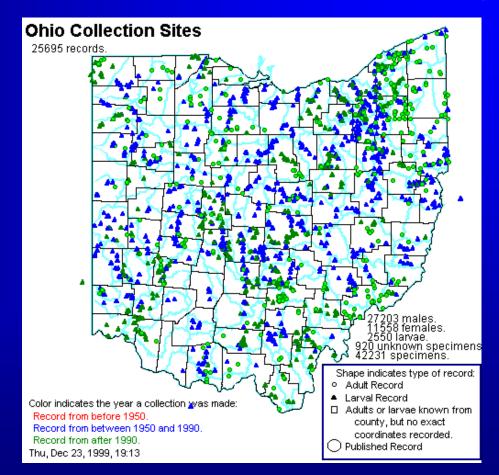
Eric Chapman Steve Chordas **Bernie Counts Bob Glotzhober Dave McShaffrey Dwight Moody Bob Restifo Dan Riggs** Ken Tennessen **Carmen Trisler** Jan Trybula

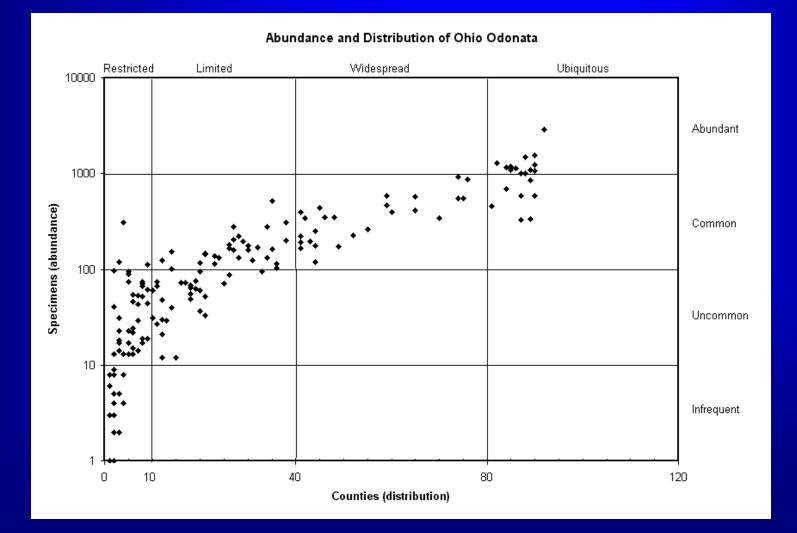


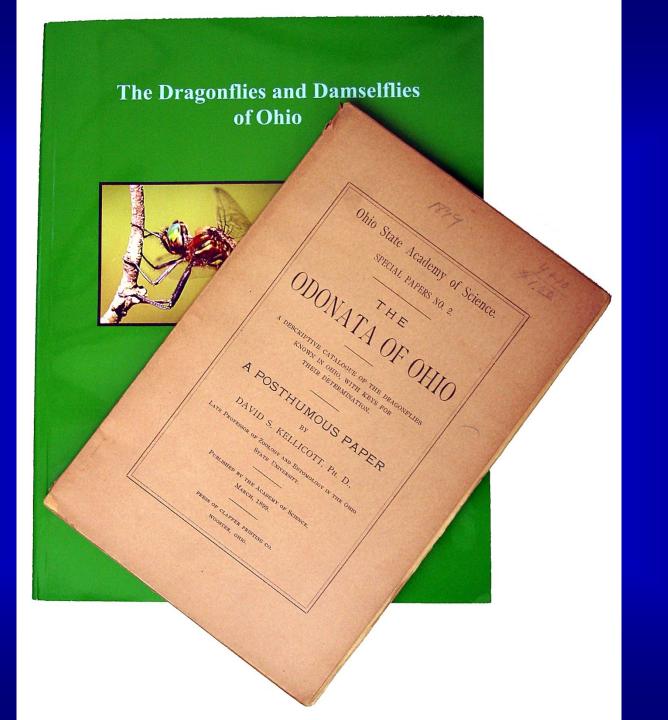




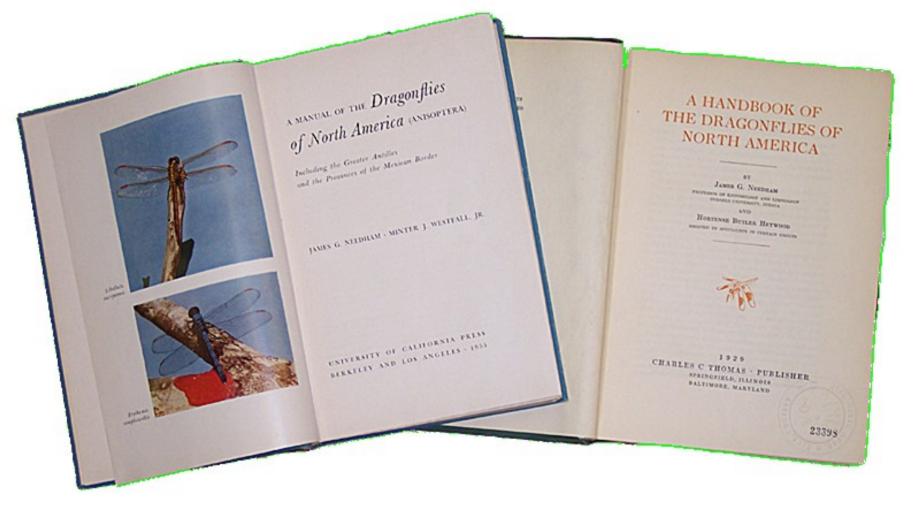






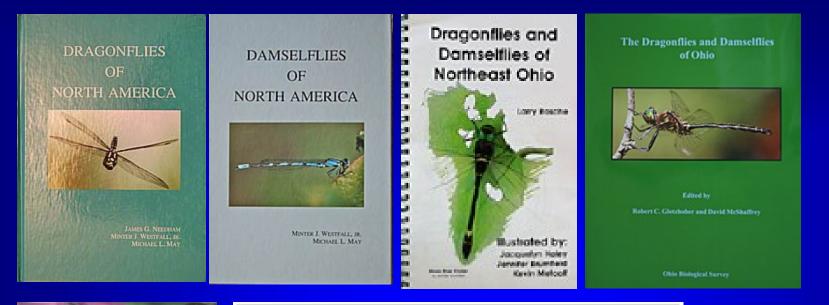


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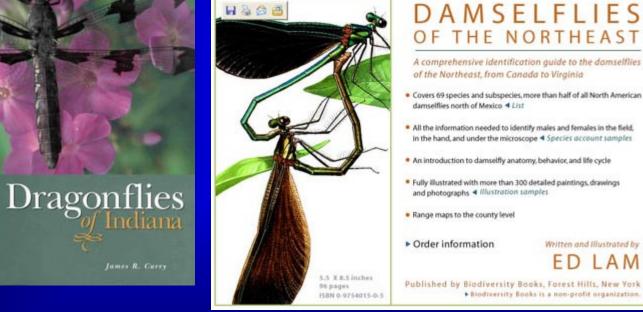


Needham and Westfall. 1954. Manual of the Dragonflies of North America

Walker (and Walker & Corbet). 1953, 1958, 1975
 Odonata of Canada and Alaska



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Covers 69 species and subspecies, more than half of all North American

 All the information needed to identify males and females in the field. in the hand, and under the microscope < Species account samples

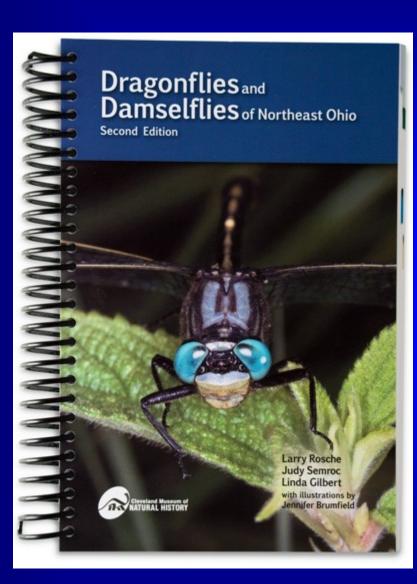
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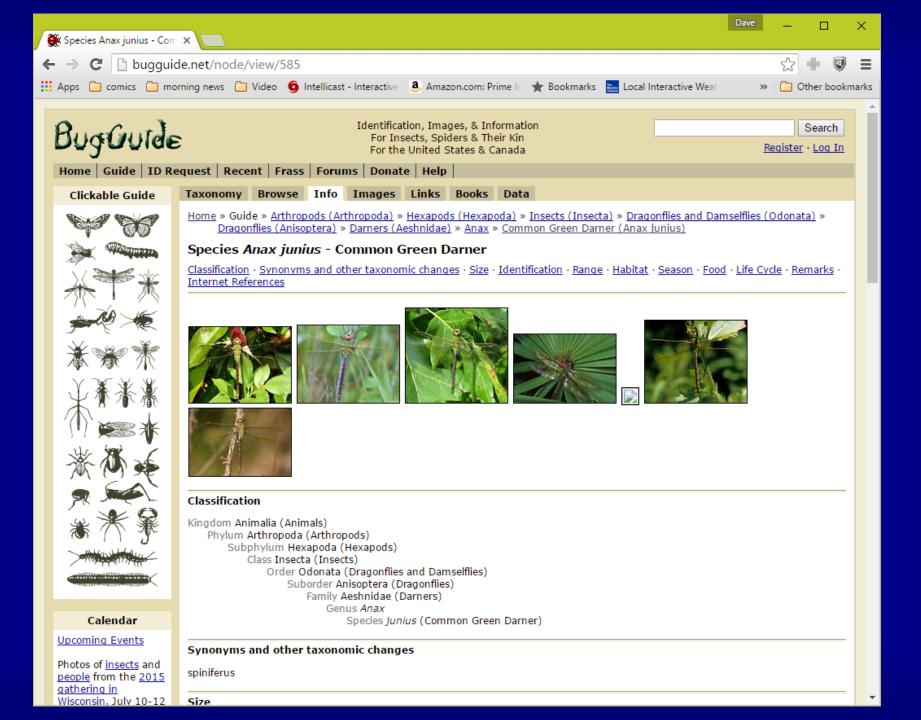


Common Dragonfli Damselflies of Ol

Ohio Division of Wi By Dave McShaffi & Bob Glotzhob 2007



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Welcome to OdonataCentral

This site is designed to make available what we know about the distribution, biogeography, biodiversity, and identification of Odonata (dragonflies and damselflies) world-wide. Use the navigation bars at the top of the page to move around in the site. Click here for a history and update of the site that appeared in <u>Argia 22(4): 2010</u>.

News



New Dragonfly ID app!

Dragonfly ID features bar charts built from the OdonataCentral database of sightings, recent sightings submitted to OdonataCentral displayed on maps, crowd-sourced text, images and more. Status and distribution information for odonates in North America!

Download from the Apple App store or learn more here.







Dragonfly Haiku by K. Issa, K. Tennessen,





Photo Records Committee

Guidelines follow various State Bird Sightings Committees And Ohio Lepidopterist guidelines, and others

Once approved, enter database as "Photo Record" 2003 = 6 new county records (NCR) 2004 = 10 NCR 2005 = 18 NCR 2006 = 19 NCR + 1 new State Record*, & repeat 1 1936 record** 2007 = 18 NCR + (repeats of above 2)

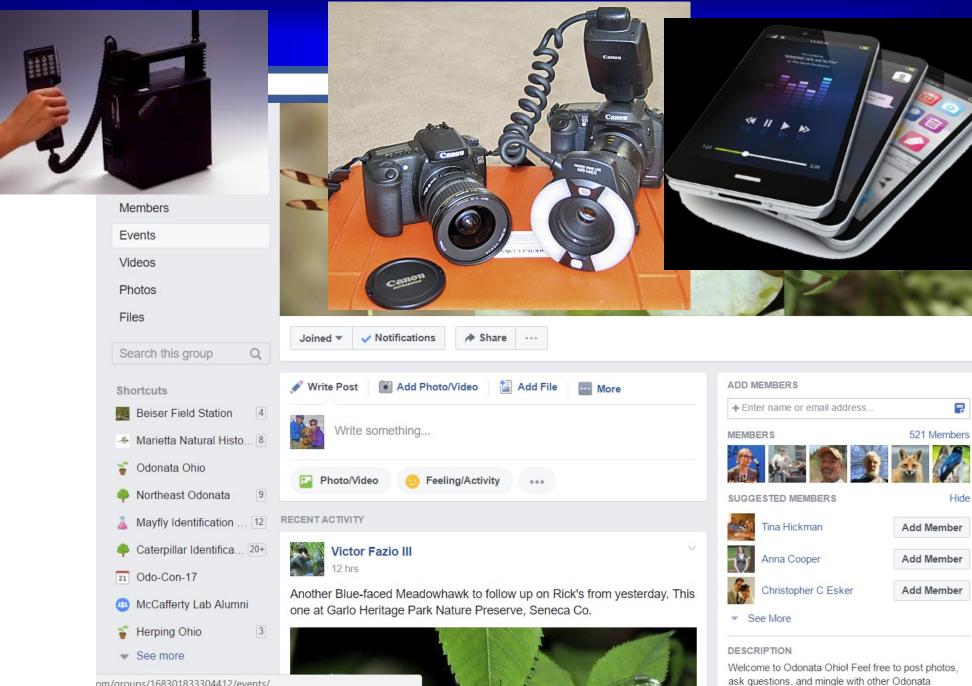
> * Striped Saddlebags, *Tramea calverti* ** Band-winged Dragonlet, *Erythrodiplax umbrata*



Stripped Saddlebags, *Tramea calverti* Lucas Co., Ohio August 21, 2006 Rick Nirschl

Band-winged Dragonlet, *Erythrodiplax umbrata* Hamilton Co., Ohio August 14, 2006 William Hull





Sandusky

ST O

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WVoun 0 observations

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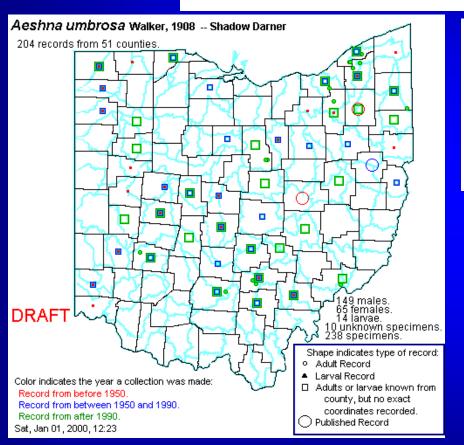
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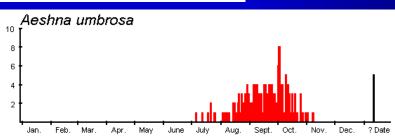
Hide

The Ohio Odonata Society



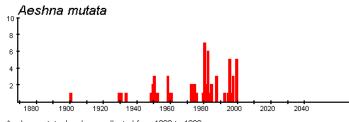
News



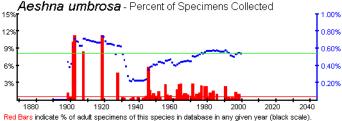


Aeshna umbrosa has been taken from July 4 to November 6.

¹⁷⁸ adult records with valid dates for this species. Graph prepared at: 12:23:43, Sat, Jan 01, 2000

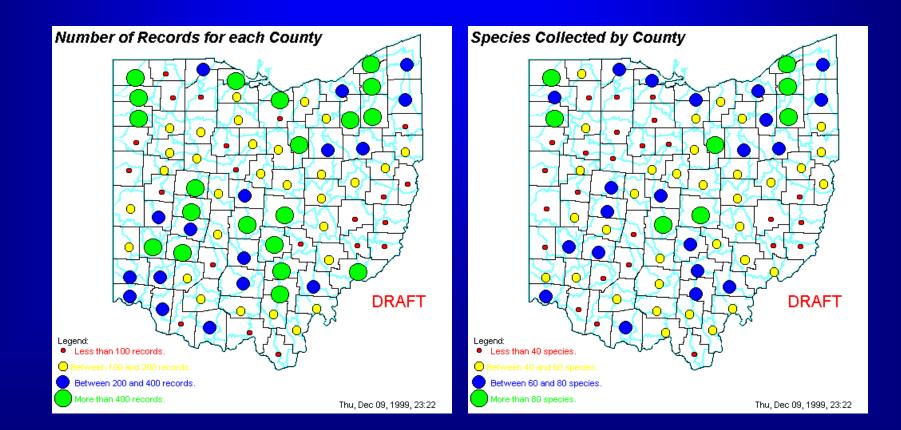


Aeshna mutata has been collected from 1900 to 1999. 61 records with valid dates for this species. Graph prepared at: 12:23:35, Sat, Jan 01, 2000



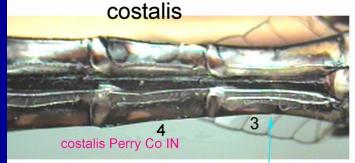
Red Line indicates % of adult specimens of this species in database in 1999 (read on black scale). Blue points indicate cumulative % of adult specimens of this species in database over time (blue scale). Green line indicates % of adult specimens of this species in database in 1999 (read on blue scale). Aeshna umbrosa has been collected from 1898 to 1998.

209 adult specimens for this species out of 38615 adult specimens (00.54%) in the database. Graph prepared at: 12:23:45, Sat, Jan 01, 2000



The Epitheca/Tetragoneura Problem

costalis - cynosura comparison

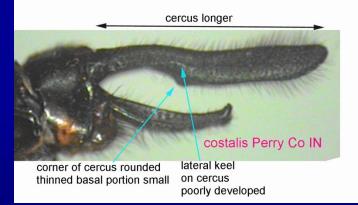


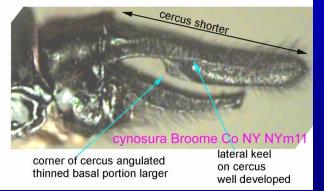
segment 3 constricted

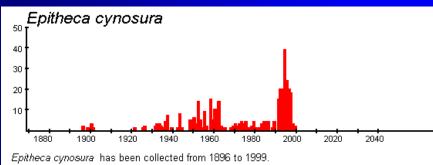
cynosura



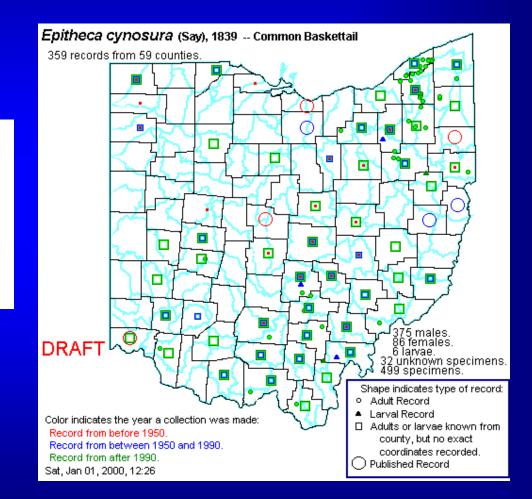
segment 3 not constricted







358 records with valid dates for this species. Graph prepared at: 12:26:43, Sat, Jan 01, 2000



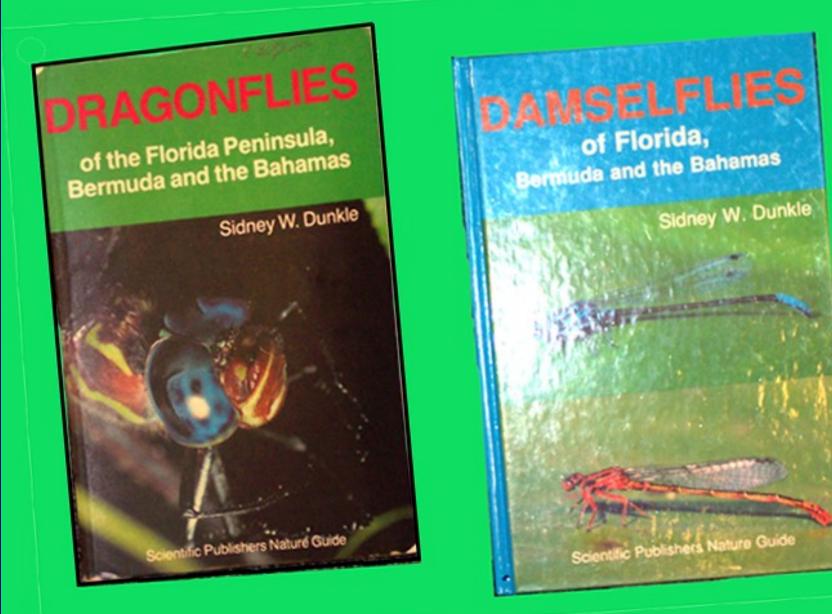
The Dragonflies and Damselflies of Ohio



Edited by

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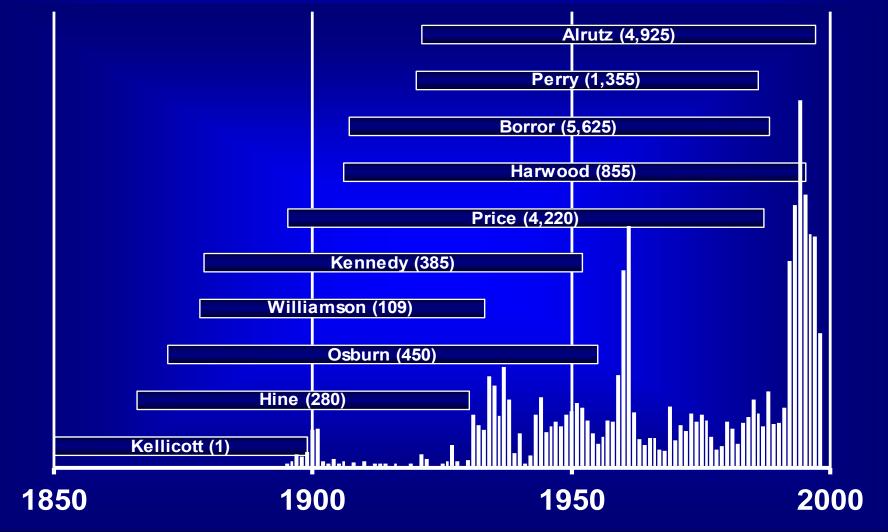
Ohio Biological Survey

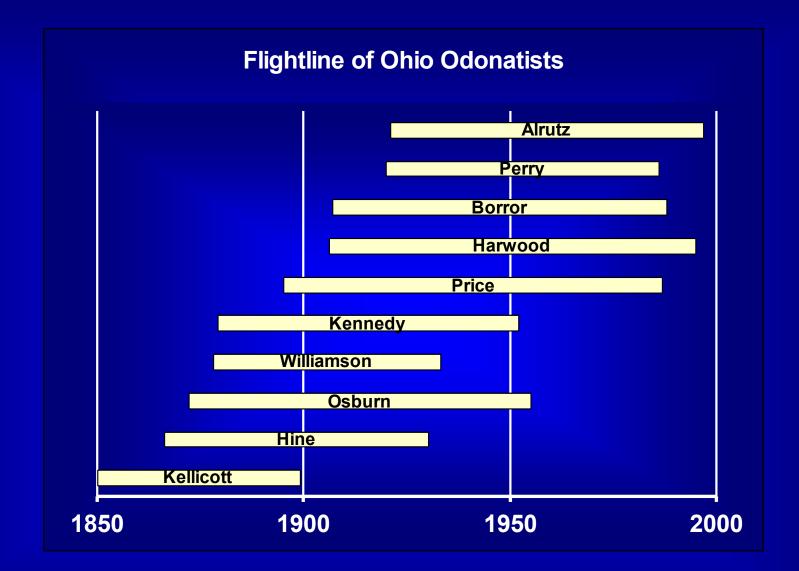


Dunkle's Field Guides for Florida 1989 1990



Flightline of Ohio Odonatists





Number of Odonata Records by Year

