

## **SECTION III**

### **Ohio Odonata Species List and Survey Area Map**

## 1. North Coast Ohio Odonata List:

River Jewelwing	<i>Calopteryx aequabilis</i>
Ebony Jewelwing	<i>Calopteryx maculata</i>
American Rubyspot	<i>Hetaerina americana</i>
Great Spreadwing	<i>Archilestes grandis</i>
Spotted Spreadwing	<i>Lestes congener</i>
Common Spreadwing	<i>Lestes disjunctus</i>
Southern Spreadwing	<i>Lestes disjunctus australis</i>
Emerald Spreadwing	<i>Lestes dryas</i>
Amber-winged Spreadwing	<i>Lestes eurinus</i>
Sweetflag Spreadwing	<i>Lestes forcipatus</i>
Elegant Spreadwing	<i>Lestes inaequalis</i>
Slender Spreadwing	<i>Lestes rectangularis</i>
Lyre-tipped Spreadwing	<i>Lestes unguiculatus</i>
Swamp Spreadwing	<i>Lestes vigilax</i>
Eastern Red Damsel	<i>Amphiagrion saucium</i>
Blue-fronted Dancer	<i>Argia apicalis</i>
Variable (Violet) Dancer	<i>Argia fumipennis</i>
Powdered Dancer	<i>Argia moesta</i>
Blue-ringed Dancer	<i>Argia sedula</i>
Blue-tipped Dancer	<i>Argia tibialis</i>
Dusky Dancer	<i>Argia translate</i>
Aurora Damsel	<i>Chromagrion conditum</i>
Taiga Bluet	<i>Coenagrion resolutum</i>
Rainbow Bluet	<i>Enallagma antennatum</i>
Azure Bluet	<i>Enallagma aspersum</i>
Long-tailed Bluet	<i>Enallagma traviatum</i>
Double-striped Bluet	<i>Enallagma basidens</i>
Boreal Bluet	<i>Enallagma boreale</i>
Tule Bluet	<i>Enallagma carunculatum</i>
Familiar Bluet	<i>Enallagma civile</i>
Northern Bluet	<i>Enallagma cyathigerum</i>
Turquoise Bluet	<i>Enallagma divagans</i>
Marsh Bluet	<i>Enallagma erbium</i>
Stream Bluet	<i>Enallagma exsulans</i>
Skimming Bluet	<i>Enallagma geminatum</i>
Hagen's Bluet	<i>Enallagma hageni</i>
Orange Bluet	<i>Enallagma signatum</i>

## 1. North Coast Ohio Odonata List: (continued)

Western Slender Bluet	<i>Enallagma traviatum westfalli</i>
Vesper Bluet	<i>Enallagma vesperum</i>
Citrine Forktail	<i>Ischnura hastate</i>
Fragile Forktail	<i>Ischnura posita</i>
Eastern Forktail	<i>Ischnura verticalis</i>
Sphagnum Sprite	<i>Nehalennia gracilis</i>
Sedge Sprite	<i>Nehalennia Irene</i>
Gray Petaltail	<i>Tachopteryx thoreyi</i>
Canada Darner	<i>Aeshna canadensis</i>
Mottled Darner	<i>Aeshna clepsydra</i>
Lance-tipped Darner	<i>Aeshna constricta</i>
Variable Darner	<i>Aeshna interrupta</i>
Spatterdock Darner	<i>Aeshna mutata</i>
Black-tipped Darner	<i>Aeshna tuberculifera</i>
Shadow Darner	<i>Aeshna umbrosa</i>
Green-striped Darner	<i>Aeshna verticalis</i>
Common Green Darner	<i>Anax junius</i>
Comet Darner	<i>Anax longipes</i>
Springtime Darner	<i>Basiaeschna janata</i>
Ocellated Darner	<i>Boyeria grafiana</i>
Fawn Darner	<i>Boyeria vinosa</i>
Swamp Darner	<i>Epiaeschna heros</i>
Taper-tailed Darner	<i>Gomphaeschna antilope</i>
Harlequin Darner	<i>Gomphaeschna furcillata</i>
Cyrano Darner	<i>Nasiaeschna pentacantha</i>
Lilypad Clubtail	<i>Arigomphus furcifer</i>
Unicorn Clubtail	<i>Arigomphus villosipes</i>
Black-shouldered Spinyleg	<i>Dromogomphus spinosus</i>
Flag-tailed Spinyleg	<i>Dromogomphus spoliatus</i>
Lancet Clubtail	<i>Gomphus exilis</i>
Plains Clubtail	<i>Gomphus externus</i>
Handsome Clubtail	<i>Gomphus crassus</i>
Midland Clubtail	<i>Gomphus fraternus</i>
Twin-striped Clubtail	<i>Gomphus geminatus</i>
Pronghorn Clubtail	<i>Gomphus graslinellus</i>
Splendid Clubtail	<i>Gomphus lineatifrons</i>

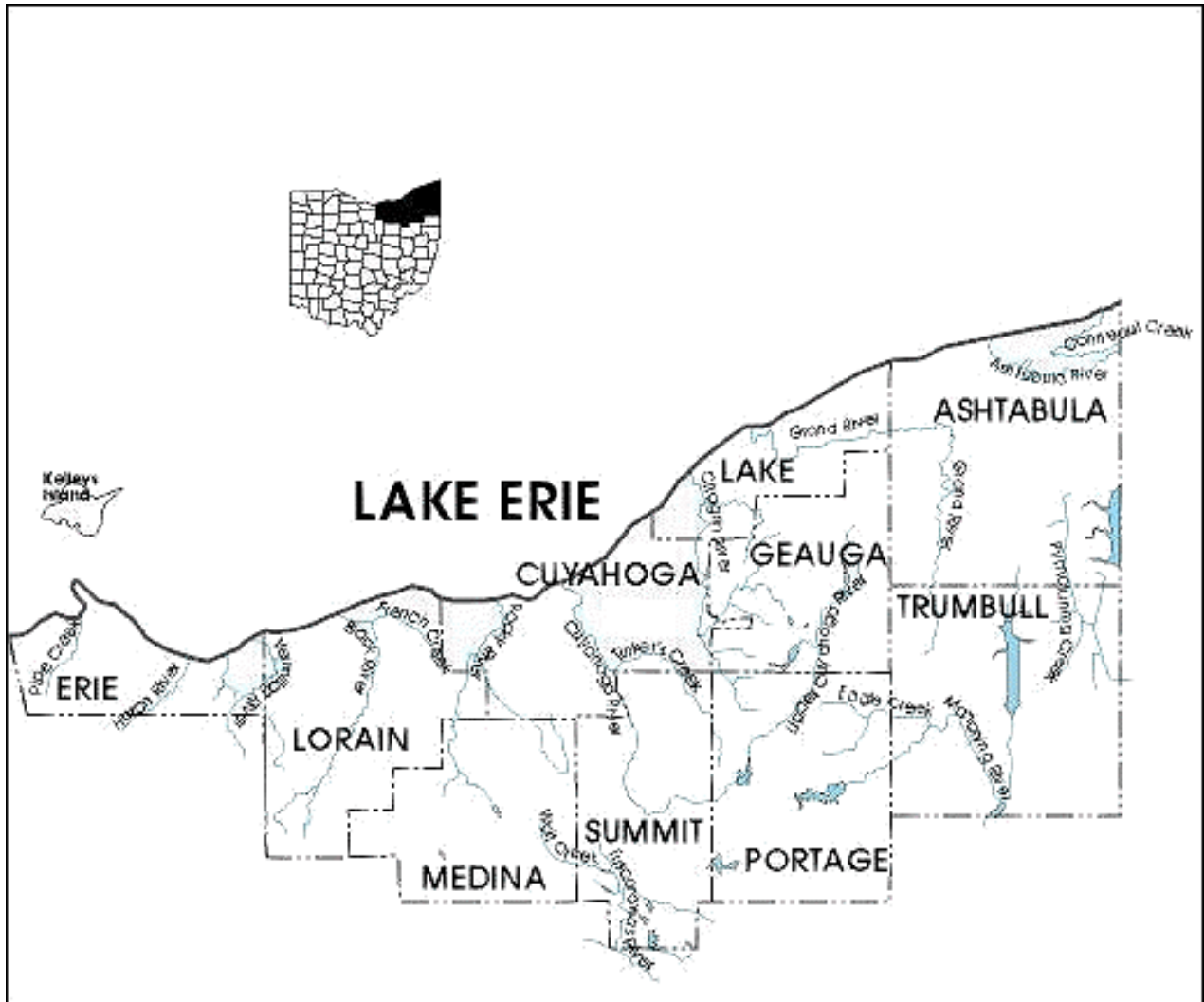
## 1. North Coast Ohio Odonata List: (continued)

Ashy Clubtail	<i>Gomphus lividus</i>
Rapids Clubtail	<i>Gomphus quadricolor</i>
Dusky Clubtail	<i>Gomphus spicatus</i>
Cobra Clubtail	<i>Gomphus vastus</i>
Russet-tipped Clubtail	<i>Stylurus plagiatus</i>
Green-faced Clubtail	<i>Gomphus viridifrons</i>
Dragonhunter	<i>Hagenius brevistylus</i>
Northern Pygmy Clubtail	<i>Lanthus parvulus</i>
Southern Pygmy Clubtail	<i>Lanthus vernalis</i>
Riffle Snaketail	<i>Ophiogomphus carolus</i>
Rusty Snaketail	<i>Ophiogomphus rupinsulensis</i>
Least Clubtail	<i>Stylogomphus albistylus</i>
Laura's Clubtail	<i>Stylurus laurae</i>
Arrow Clubtail	<i>Stylurus spiniceps</i>
Delta-spotted Spiketail	<i>Cordulegaster diastatops</i>
Twin-spotted Spiketail	<i>Cordulegaster maculata</i>
Arrowhead Spiketail	<i>Cordulegaster obliqua</i>
Stream Cruiser	<i>Didymops transversa</i>
River Cruiser	<i>Macromia illinoiensis illinoiensis</i>
Royal River Cruiser	<i>Macromia taeniolata</i>
American Emerald	<i>Cordulia shurtleffii</i>
Racket-tailed Emerald	<i>Dorocordulia libera</i>
Beaverpond Baskettail	<i>Epitheca canis</i>
Common Baskettail	<i>Epitheca cynosura</i>
Prince Baskettail	<i>Epitheca princeps</i>
Smoky Shadowdragon	<i>Neurocordulia molesta</i>
Ringed Emerald	<i>Somatochlora albicincta</i>
Plains Emerald	<i>Somatochlora ensigera</i>
Hine's Emerald	<i>Somatochlora hineana</i>
Incurvate Emerald	<i>Somatochlora incurvata</i>
Mocha Emerald	<i>Somatochlora linearis</i>
Clamp-tipped Emerald	<i>Somatochlora tenebrosa</i>
Brush-tipped Emerald	<i>Somatochlora walshii</i>
Calico Pennant	<i>Celithemis elisa</i>
Halloween Pennant	<i>Celithemis eponina</i>
Banded Pennant	<i>Celithemis fasciata</i>
Eastern Pondhawk	<i>Erythemis simplicicollis</i>

1. North Coast Ohio Odonata List: (continued)

Frosted Whiteface	<i>Leucorrhinia frigida</i>
Dot-tailed Whiteface	<i>Leucorrhinia intacta</i>
Spangled Skimmer	<i>Libellula cyanea</i>
Slaty Skimmer	<i>Libellula incesta</i>
Chalk-fronted Corporal	<i>Libellula julia</i>
Widow Skimmer	<i>Libellula luctuosa</i>
Common Whitetail	<i>Libellula lydia</i>
Twelve-spotted Skimmer	<i>Libellula pulchella</i>
Four-spotted Skimmer	<i>Libellula quadrimaculata</i>
Painted Skimmer	<i>Libellula semifasciata</i>
Great Blue Skimmer	<i>Libellula vibrans</i>
Elfin Skimmer	<i>Nannothemis bella</i>
Blue Dasher	<i>Pachydiplax longipennis</i>
Wandering Glider	<i>Pantala flavescens</i>
Spot-winged Glider	<i>Pantala hymenaea</i>
Eastern Amberwing	<i>Perithemis tenera</i>
Blue-faced Meadowhawk	<i>Sympetrum ambiguum</i>
Variegated Meadowhawk	<i>Sympetrum corruptum</i>
Saffron-winged Meadowhawk	<i>Sympetrum costiferum</i>
Cherry-faced Meadowhawk	<i>Sympetrum internum</i>
White-faced Meadowhawk	<i>Sympetrum obtrusum</i>
Ruby Meadowhawk	<i>Sympetrum rubicundulum</i>
Band-winged Meadowhawk	<i>Sympetrum semicinctum</i>
Yellow-legged Meadowhawk	<i>Sympetrum vicinum</i>
Carolina Saddlebags	<i>Tamea carolina</i>
Black Saddlebags	<i>Tamea lacerata</i>
Red Saddlebags	<i>Tamea onusta</i>
Carolina Saddlebags	<i>Tamea carolina</i>

## 2. Survey Area Map



Map Courtesy of Larry Rosche

## Organizations

*Dragonfly Society of the Americas* (DSA) Email: [tdonnel@binghamton.edu](mailto:tdonnel@binghamton.edu)  
c/o T. Donnelly, 2091 Partridge Lane, Binghamton, NY, 13903, USA.

*Maine Entomological Society* (MES) Email: [modear@ctel.net](mailto:modear@ctel.net) c/o Richard G.  
Dearborn, RR 2, Box 788, Mt. Vernon, ME, 04352, USA.

*Worldwide Dragonfly Association* (WDA) Jill Silsby, Secretary, 1, Haydn  
Avenue, Purley, Surrey, CR8 4AG, UK.

*Ohio Odonata Society* (OOS)  
<http://mcnet.marietta.edu/~odonata/index.html>

*Ohio Biological Survey* (OBS) [www.biosci.ohio-state.edu/~ohbiol/](http://www.biosci.ohio-state.edu/~ohbiol/)

*Michigan Odonata Survey* (MOS)  
<http://insects.ummz.lsa.umich.edu/MICHODO/MOS.html>

*International Odonate Research Institute* (IORI)  
<http://www.afn.org/~iori/>

## Bibliography and References

Borrer, D.J. 1960. *Dictionary of Word Roots and Combining Forms*. Mayfield Publishing Company, Palo Alto, California; LCCC 60-15564.

Borrer, D.J., D.M. De Long and C.A. Triplehorn. 1981. *An Introduction to the Study of Insects*. Saunders College Publishing, 383 Madison Avenue, New York, NY 10017. ISBN 0-03-043531-5.

Brunelle, P.M. 1998. Report 1, Edition 2. *Baseline Information on Maine Odonata*. September 1998 Unpublished report to Maine Department of Inland Fisheries and Wildlife.

Brunelle, P.M. 1999. *Distribution of Dragonflies and Damselflies (Odonata) of Maine, United States*. Northeastern Naturalist, issue 6:2.

Carpenter, V. 1997. *Dragonflies and Damselflies of Cape Cod. Edition 2*. The Cape Cod Museum of Natural History, Brewster, Massachusetts, 02631, Natural History Series No. 4, ISBN 0-916275-00-2.

Chu, H.F. 1949. *How To Know The Immature Insects*. Picture Key Nature Series. Wm. C. Brown Company Publishers, Dubuque, Iowa.

Corbet, Philip S. 1999. *Dragonflies: behavior and ecology of Odonata*. Cornell University Press, Ithaca, New York, 14850. ISBN 0-814-2592-1

DeLorme, Ohio Atlas and Gazetteer, DeLorme Mapping Company P.O. Box 298, Freeport, Maine 04032. ISBN 0-89933-233-1

Dunkle, S.W. 1989. *Dragonflies of the Florida Peninsula, Bermuda and the Bahamas*. Scientific Publishers.

Dunkle, S.W. 1990. *Damselflies of Florida, Bermuda and the Bahamas*. Scientific Publishers.

Jaques, H.E. 1947. *How To Know The Insects*. Picture Key Nature Series. Wm. C. Brown Company Publishers, Dubuque, Iowa.

Merritt, R.W. and K.W. Cummins. 1996. *An Introduction to the Aquatic Insects of North America*. Third edition. Kendall/Hunt Publishing Co. 4050 Westmark Drive, Dubuque, Iowa, 52002. ISBN 0-7872-3241-6 Spiral Bound.

Needham, J.G. and M.J. Westfall. 1955. *A Manual of the Dragonflies of North America (Anisoptera)*. University California Press. LCCN 54-6674.

## **Bibliography and References (continued)**

Needham, J.G., Westfall, M.J., M.L. May. 2000. *Dragonflies of North America* xvi + 940 pp., 561 text figures, 24 color plates (7 x 10 in), cloth. Scientific Publishers, Gainesville FL ISBN 0-945417-94-2

Paulson, D.R. and S.W. Dunkle. 1996. *Common Names of North American Dragonflies and Damselflies, Adopted by the Dragonfly Society of the Americas*. Argia 8:2 supplement.

Pilon, J-G. and D. Lagac. 1998. *Les Odonates du Quebec*. Entomofaune du Quebec (EQ) Inc., 637, Boulevard Talbot, Suite 108, Chicoutimi, QC, Canada, G7H 6A4.

Reid, George K. 1967. *Pond Life: A Guide Common Plants and Animals of North American Ponds and Lakes*. Golden Press. New York. LCCN 67-16477

Rosche, L. 2002. *Dragonflies and Damselflies of Northeast Ohio*. The Cleveland Museum of Natural History. ISBN 0-9717460-0-1

Walker, E.M. 1953. *The Odonata of Canada and Alaska. Volume 1: Part I: General. Part II: The Zygoptera Damselflies*. University Toronto Press. ISBN 0-8020-5321-1

Walker, E.M. 1958. *The Odonata of Canada and Alaska. Volume 2: Part III: The Anisoptera: Four Families*. University Toronto Press. ISBN 0-8020-7076-0.

Walker, E.M. and P.S. Corbet. 1978. *The Odonata of Canada and Alaska. Volume 3: Part III: The Anisoptera: Three Families. Edition 2*. University Toronto Press. ISBN 0-8020-5321-1.

Westfall, M.J., and M.L. May. 1996. *Damselflies of North America*. Scientific Publishers, Gainesville, Florida. ISBN 0-945417-93-4.

## **Acquiring Materials**

The addresses of sources mentioned are:

Bioquip, 17803 LaSalle Avenue, Gardena, California, 90248-3602, USA. Phone 310 324-0620, Fax 310 324-793 (all types of entomological supplies, ask for their catalog).

*International Odonate Research Institute (IORI) Email: [iori@afn.org](mailto:iori@afn.org) c/o Division of Plant Industry, PO Box 147100, Gainesville, FL, 32614-7100, USA (field and storage envelopes, publications).*