New Survey Publication
Atlas of Ohio Aquatic Insects

The first volume in a new atlas for the Survey’s Miscellaneous Contributions Series has been sent to the printers and will be out toward the end of June. *The Atlas of Ohio Aquatic Insects, Volume 1. Trichoptera* is authored by Brian J. Armitage, Steven C. Harris, Guenter A. Schuster, John D. Usis, David B. MacLean, Benjamin A. Foote, Michael J. Bolton, and Ralph J. Garono. This 100-page book is OTA bound so that it lies flat next to a microscope or computer. The book will sell for $25, plus applicable Ohio sales tax ($1.69) and postal fees ($5 for USPS Media Mail). It can be ordered by mail from the Survey, and will soon be available for sale online on the Survey’s Web site with payment by credit card via PayPal.

This book is the result of an 8-year (1993-2000) field survey of aquatic insects by the Ohio Biological Survey. It identifies 36 new state records of caddisflies (Insecta: Trichoptera) for the State. Also, two species of caddisflies are described for the first time from the family Hydroptilidae: *Hydroptila danieli* Harris and Armitage, new species and *Hydroptila paraxella* Harris and Armitage, new species. The total number of caddisfly taxa now known from Ohio is 270. Maps for each species known from Ohio, with species locations by latitude and longitude, are presented on color-differentiated, HUC-8 watershed backgrounds, each overlaid with a light county outline. In addition to the Survey’s data, historical data from the published literature and Ohio EPA, Division of Surface Water data are also included in the distribution maps. There are currently 12 species of caddisflies in Ohio that are state-listed as Endangered (n=3), Threatened (n=6) or Species of Concern (n=3).
The purpose of the Survey’s atlas publications is to provide up-to-date distribution information so that field researchers doing surveys and inventories can see what is known about the distribution of a given taxonomic group in Ohio. Intended to be ephemeral, each atlas volume should be reissued every 10-15 years to maintain the timeliness of the information. The Miscellaneous Publication Series, of which these atlases are a part, is one of a number of publication types that the Survey employs to provide information in different ways and formats about the biota of Ohio and larger areas of which Ohio is an integral part. Other publication series include mini-posters, posters, In Ohio’s Backyard, special items, and technical or monographic publications in our Bulletin New Series.

OBS Notes Series: 
A New Start

In 1998, the Survey created a new publication type: the Notes Series. Intended for smaller papers, this peer-reviewed publication venue quickly attracted attention and two volumes were produced (Volume 1, 5 papers, 1998; and, Volume 2, 7 papers, 1999). Now we are reviving this series and making a new start. The first paper in Volume 3 has been placed online on the Survey’s Web site:

www.ohiobiologicalsurvey.org

Authored by Edward Quinn and Tim Matson, the paper is entitled “Population trends of three congeners of mole salamanders (Ambystoma) at an isolated pond in northeast Ohio.” Additional papers for this volume are in the works.

In addition, the Survey has made all previous papers in Volumes 1 and 2 available online as well. All Notes Series papers can be downloaded as PDF files for free. After Volume 3 is complete, we will print and bind copies for distribution to 10 large Ohio and regional libraries.

If you wish to submit a paper for consideration in this series, please contact the Survey’s Publication Director.

Executive Director’s Comments

The Ohio Biological Survey continues to weather the uncertainties of current economic conditions and the future of the publishing industry. We are alive and well, which is no small achievement for an institution that will be 100 years old in 2012. We are beginning to plan a celebration of our first century and the start of our second, using our annual Ohio Natural History Conference as a centerpiece next February. The date will be a Saturday; as of this writing we have not determined which date, but we will know soon and will announce it on the OBS Web site and in the next BioOhio.

We do know the date and location of the annual Advisory Council meeting: as in the recent past, it will be Saturday, November 5th, at Highbanks Metro Park, on US 23 just north of Columbus. Full details will be in the next BioOhio and on our Web site. We hope to see many of you there.

I have another tale of how biological information can come our way purely by happenstance. There is a species of beetle both rare and obscure, the Black Lordithon Rove Beetle (Lordithon niger). It is listed as a species of special concern federally and is considered declining and threatened in several states due apparently to elimination of its old-growth forest habitat. We have found it in our All-taxa Biodiversity Inventory at Deep Woods, but additional Ohio records have been hard to come by. Richard Paul has been surveying moths at Battelle-Darby Metro Park at the behest of John Watts, and John asked me if the Ohio Coleopterists would be interested in beetles from the moth survey. “Sure,” said I, and shortly I was receiving gazillions of neatly pinned beetles. Overwhelmingly these have been common species, but the Ohio Coleopterists have sharp eyes for rarities and have discovered Lordithon niger among the Battelle-Darby beetles. Owing to its rarity, we do not know a lot about the Black Lordithon Rove Beetle’s habitat requirements or life history, but it is gratifying to know that this denizen of the primeval forests is still with us, and in Franklin County, no less! It is the sort of fortuitous discovery that many of us can make by keeping our eyes and ears open when we are outdoors.
A portion of the institutional dues is used to support our small grants program. This year, we received seven institutional grant proposals, of which five were funded. The funded projects are listed below.

**Biodiversity and ecology of phoretic mites associated with ants in prairies.** Kaitlin Uppstrom, Miami University.

**Survey of central Ohio’s amphibian species richness and population study of the Wood Frog, *Lithobates sylvatica*, in relation to the fungal disease *Batrachochytrium dendrobatidis*.** Elizabeth Delfing and Christine Anderson, Capital University.

**Expanding the geographic coverage and habitat sampling of a faunal survey of black flies in Ohio.** Michael Mendel, Mount Vernon Nazarene University.

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**Federal and State Officials Announce Tree Survey Efforts in Ohio Due to the Discovery of Asian Longhorned Beetle**

The U.S. Department of Agriculture’s Animal and Plant Health Inspection Service (APHIS) and the Ohio Department of Agriculture (ODA) announce that surveys are under way in Bethel, Ohio, after the detection and identification of the Asian longhorned beetle, *Anoplophora glabripennis*. Bethel is located 30 miles southeast of Cincinnati.

First discovered in the U.S. in 1996, Asian longhorned beetles attack several species of trees including maple, willow, horsechestnut, buckeye, and American elm. While in its larval stage, the Asian longhorned beetle...
ODNR Division of Wildlife’s Online Turkey and Grouse Survey

The Ohio DNR Division of Wildlife has requested that all sightings of wild turkeys and ruffed grouse in the months of June, July, and August 2011 be reported on their Web page:

http://www.dnr.state.oh.us/wildlife/TurkeySurvey/

Hens with broods are of primary interest, but sightings of single birds, groups of hens that do not have poults, or groups of gobblers can also be submitted. Data from the survey will be used to calculate ratios of poults/brood hens, poults/total hens, and the number of gobblers/hens. The ratio of brood hens to total hens is also useful to estimate nest success and early poult survival, especially during the wet spring weather we have had this year.

All of these indexes are useful to help determine population trends in Ohio, which are used to set hunting regulations. The results are also being included in the Ohio Breeding Bird Atlas.

(ALB) kills trees by tunneling into large branches and the trunk.

Ohio is the fifth state to detect ALB, which APHIS confirmed in Bethel after a citizen reported finding unusual damage in three maple trees to an Ohio Department of Natural Resources Division of Forestry service forester. Previous infestation sites where the beetles are being successfully contained include Illinois, Massachusetts, New Jersey, and New York. APHIS and ODA inspection crews are surveying the southern portion of Bethel and the surrounding area to determine the extent of the ALB infestation. Crews will inspect host tree species susceptible to ALB for signs of the wood-boring beetle using ground surveyors and specially trained tree climbers.

APHIS and the ODA are working cooperatively with the Ohio Department of Natural Resources, Ohio State University Extension, the USDA Agricultural Research Service, the USDA Forest Service, and the town of Bethel to evaluate the scope of the infestation and to inform the public about the exotic, invasive pest.

Adult ALB are usually large, distinctive-looking insects measuring 1” to 1 1/2” long, not including antennae. Their white-banded antennae can be as long as the body itself in females and almost twice the body length in males.

Signs of infestation include perfectly round exit holes (about 3/8” to 1/2” in diameter) made by adult beetles when they emerge from trees; the pockmarks on tree trunks and branches where female beetles deposit eggs; frass (excrement); wood shavings and sawdust produced by larval feeding and tunneling; early fall coloration of leaves or dead branches; and running sap produced by the tree at the egg-laying sites, or in response to larval tunneling.

To report signs or symptoms of ALB, please call the Ohio Survey Program toll free at 855-252-6450. For more information, please visit www.aphis.usda.gov and www.agri.ohio.gov.
Wild Whooping Crane Chicks Hatch at Necedah National Wildlife Refuge in Central Wisconsin

The U.S. Fish and Wildlife Service’s Necedah National Wildlife Refuge (NWR) and the Whooping Crane Eastern Partnership (WCEP) are celebrating another success in efforts to reintroduce a wild migratory whooping crane population in eastern North America.

Three whooping crane chicks hatched this week at Necedah NWR in central Wisconsin. The first chick to hatch this season was the offspring of wild whooping crane W1-06. W1-06 was hatched and raised in 2006 on Necedah NWR and is the first wild offspring from the eastern whooping crane reintroduction project started more than a decade ago.

The additional two chicks are the offspring of other well-established whooping crane pairs. Sadly, refuge biologists have been unable to locate the first chick in recent monitoring efforts. The chick may have been predated.

“Although we are disappointed by the potential loss of the first chick, we are encouraged by this first successful nesting and hatching of a wild-born chick, from a wild-born parent,” said Necedah National Wildlife Refuge Manager Doug Staller. “Refuge staff is committed to working toward the ultimate goal of a self-sustaining eastern flock of migratory whooping cranes and actively monitors additional nests of whooping crane pairs on the Refuge.”

There are approximately 105 whooping cranes in the eastern migratory population including at least 20 nesting pairs, also a record number for this reintroduced population. In addition to the three chicks hatched in the wild this week at Necedah NWR, three chicks have fledged in the wild during the course of the reintroduction project, which began in 2001.

“The Whooping Crane Eastern Partnership’s focus over the next five years is successful reproduction in the wild flock, and the recently hatched chicks, in addition to the three previously fledged wild-hatched chicks, are a very promising start to achieving this goal,” said Joel Trick, acting project leader for the Service’s Green Bay Ecological Services Field Office and WCEP representative. “We continue to work to identify the factors that may contribute to nest failure, and are working to address those challenges through active nest management and captive-reared releases.”

This year marks an important transition for whooping crane recovery efforts at Necedah NWR. The effort has shifted from the population depending upon introduction of captive-reared birds to the population being supported through wild whooping cranes producing eggs, hatching chicks, and fledging young.

Since whooping cranes have been absent from the upper Midwest for over 120 years, WCEP plans to continue studying factors that improve reproductive success as well as how reintroduced whooping cranes use the habitats they encounter following release. These data will refine the understanding of what determines overall success for whooping crane reintroduction in the upper Midwest.


National Plan to Combat White-Nose Syndrome in Bats

The Department of the Interior’s U.S. Fish and Wildlife Service today unveiled a national management plan to address the threat posed by white-nose syndrome, which has killed more than a million hibernating bats in eastern North America since it was discovered near Albany, New York in 2006.

“Having spread to 18 states and four Canadian provinces, white-nose syndrome threatens far-reaching ecological and economic impacts,” said Secretary of the Interior Ken Salazar. “We’ve learned a lot in the past few years about the disease, but there is much
more work to be done to contain it. This national plan provides a road map for federal, state, and tribal agencies and scientific researchers to follow and will facilitate sharing of resources and information to more efficiently address the threat.”

The National Plan for Assisting States, Tribes and Federal Agencies in Managing White-Nose Syndrome in Bats provides a coordinated national management strategy for investigating the cause of the syndrome and finding a means to prevent the spread of the disease. The service considered approximately 17,000 comments received on the draft plan made available to the public in October 2010.

Since the syndrome was first documented, the service has been leading a national response that now includes more than 100 state and federal agencies, tribes, organizations and individuals.

Interior Department agencies have invested more than $10.8 million in this effort since 2007. This includes more than $3 million in research funding that is supporting ongoing research projects looking for methods to control or cure the disease.

For example, researchers working with the U.S. Geological Survey have identified Geomyces destructans, a fungus new to science, as the presumed causative agent.

In addition to research, the national response has also developed decontamination protocols to reduce the transmission of the fungus, surveillance strategies, and technical white-nose syndrome diagnostic procedures. Bat populations are at risk in some areas of the country as a result of white-nose syndrome. Ecologists and natural resource managers are concerned because of the critical role that bats play in maintaining healthy ecosystems and in agricultural systems. A recent analysis published in Science magazine’s Policy Forum showed that pest-control services provided by insect-eating bats save the U.S. agricultural industry at least $3 billion a year.

The national plan’s release coincides with the fourth annual WNS Symposium to be held in Little Rock, Arkansas May 17-19. More than 170 of the world’s top scientific experts on bats, wildlife disease, and the WNS fungus will present the latest research and information on how to contain the spread, determine the cause, and hopefully find a cure for WNS.

State, federal and tribal land managers will also discuss the national response to WNS and implementation teams will formalize work plans as part of a more detailed implementation strategy.

Additional information about WNS is available online at http://www.fws.gov/WhiteNoseSyndrome/

Great Lakes Restoration Initiative

U.S. Fish and Wildlife Service announced on June 24th the approval of $930,000 for grants aimed at protecting, 791 acres of wetlands and wildlife habitat in Michigan, New York, Ohio, and Pennsylvania under the Great Lakes Restoration Initiative (GLRI), Joint Venture Habitat Protection and Restoration Program.

Among the recipients awarded funding was OBS institutional member the Cleveland Museum of Natural History, which was granted $61,250 for the Geneva Swamp Protection Project. This project will protect 50 acres of high-quality wetlands in northeastern Ohio. This expansive wetland system in the Lake Erie Plain harbors populations of the state-threatened spotted turtle as well as several state-threatened plants, and also supports an exceptional diversity of breeding and migratory birds. This parcel will contribute to a larger complex of recently protected areas, and will enable project partners to better protect and restore the unique natural communities and priority breeding birds present in the project area.
Note: The Survey is actively soliciting nominations for the Ohio Biological Survey Naturalist Award. Please send nominations to the Ohio Biological Survey, P.O. Box 21370, Columbus, OH 43221-0370.

Purpose: The Ohio Biological Survey wishes to honor those individuals who have made significant contributions to our understanding and conservation of the natural heritage of Ohio.

Qualifications: An individual selected to receive the Ohio Biological Survey Naturalist Award will have worked energetically to acquire or disseminate knowledge, conserve natural areas, and/or foster our understanding of the fauna and flora of Ohio. The awardee will be an active contributor over a period of years in pursuit of the activities concerning the natural heritage of Ohio.

Note: Nominations for the Herbert Osborn Award can be made at any time during the year. Please send nominations to the Ohio Biological Survey, P.O. Box 21370, Columbus, OH 43221-0370.

Purpose: The Ohio Biological Survey, in honor of its founder, established the Herbert Osborn Award to recognize noteworthy accomplishments and service in the field of biology as pertaining to the objectives of the Ohio Biological Survey. The Award is presented on an annual basis, and was initiated in 1991.

Qualifications: Recipients of the Herbert Osborn Award will be individuals who have made an exceptional contribution through consistent research publications to the advancement of knowledge concerning the occurrence, distribution, taxonomy, and/or ecology of the flora and/or fauna of Ohio. The intent of the Award is to recognize relevant accomplishments and service over a period of years.
Cedarville University, Department of Science and Mathematics [251 N. Main St., Cedarville OH 45314, phone: (937) 766-7940, web: www.cedarville.edu/academics/sciencemath/]

Central State University, Department of Natural Sciences [Benjamin Banneker Science Building, Wilberforce OH 45384, phone: (937) 376-6357, fax: (937) 376-6585, web: www.centralstate.edu/academics/arts_science/nsmcs/biology/index.html]

Cincinnati Museum Center [1301 Western Ave., Cincinnati, OH 45203-1129, phone: (513) 287-7020 or 1-800-733-2077]

Cincinnati Zoo and Botanical Garden [3400 Vine Street, Cincinnati, OH 45220, phone: (513) 281-4700 or 1-800-94-HIPPO, web: www.cincinnatizoo.org]

Clarion University, Department of Biology [Clarion, PA 16214, web: www.clarion.edu/art-sci/biology/index.htm]

Cleveland Metroparks [4101 Fulton Parkway, Cleveland, OH 44144, phone: (216) 351-6300, TTY 216-351-0808]

The Cleveland Museum of Natural History [1 Wade Oval Drive, University Circle, Cleveland, OH 44106-1767, phone: (216) 231-4600]

Cleveland State University, Dept. of Biological, Geological, and Environmental Sciences [2121 Euclid Avenue, Cleveland, OH 44115-2214, phone: (216) 523-7270, web: www.csuohio.edu/sciences/dept/biology/BGESweb09/index.html]

Columbus Audubon [P.O. Box 141350, Columbus, OH 43214, Julie Davis, President and Field Trips <president@columbusaudubon.org>, phone: (614) 523-2180; or, Susan Setterlin, Education Pogms. <rsetterl@columbus.rr.com> phone: 740-549-0333, web: www.columbusaudubon.org]

Metropolitan Park District of Columbus and Franklin County [1069 W. Main St., Westerville, OH 43229. Reservations (614) 508-8111, 24-Hour General Info (614) 508-8000; web: www.metroparks.net]

Columbus Natural History Society [c/o Robert C. Glotzhober Ohio Historical Society, 1982 Velma Avenue, Columbus, OH 43211-2497, phone: (614) 297-2633, e-mail: bglotzhober@ohiohistory.org]

Columbus Zoo and Aquarium [9990 Riverside Drive, P.O. Box 400, Powell, Ohio 43065, phone: 614-645-3550, web: www.colszoo.org/]

Crane Hollow, Inc. [52 E Gay St., Columbus, OH 43215]

Crawford County Park District [2401 St. Rte. 598, Crestline, OH 44827, phone: 419-683-9000, fax: 419-710-2681, web: www.crawfordparkdistrict.org]

Cuyahoga Community College [700 Carnegie Avenue, Cleveland, Ohio 44115, phone: 216-987-2350, web: www.tri-c.edu/programs/liberalarts/biology/Pages/Home.aspx]

The Dawes Arboretum [7770 Jacksontown Rd. SE, Newark, OH 43056-9380, phone: (740) 323-2355 or 1-800-44-DAWES, web: www.dawesarb.org]

University of Dayton [Department of Biology 300 College Park Dayton, OH 45469-2320, phone: (937) 229-252, web: biology.udayton.edu]

The Defiance College [Natural Sciences and Mathematics, 701 N. Clinton St., Defiance, Ohio 43512, phone: 1-800-520-GODC, web: www.defiance.edu/pages/NS_majors_biology.html]

Denison University [Department of Biology, Samson Talbot Hall, Granville, OH 43023, phone: 740-587-6261, web: www.denison.edu/academics/departments/biology/index.html]

EcoAnalysts, Inc. [105 E. Second St., Suite 1, Moscow, ID 83843, phone: (208) 882-2588, e-mail: info@ecoanalysts.com, web: www.ecoanalysts.com]

Ecological Specialists, Inc. [1417 Hoff Industrial Ct., O’fallon, MO 63366, phone: (636) 281-1982, e-mail: Contact@EcologicalSpecialists.com, web: www.ecologicalspecialists.com]

Envirotech Consultants, Inc. [5380 TWP 143 NE,
Erie MetroParks [3910 Perkins Ave., Huron, OH 44839, phone: (419) 625-7783; e-mail: discoverit@eriemetroparks.org, web: www.eriemetroparks.org/index.html]

University of Findlay [1000 North Main Street, Findlay, OH 45840, phone: 419-422-8313, fax: 419-434-4822, web: www.findlay.edu/academics/colleges/cosc/academicprograms/undergraduate/BIOL]

Geauga Park District [9160 Robinson Road, Chardon, OH 44024-9148, phone: 440) 286-9516, fax: 440-286-1285, web: www.geaugaparkdistrict.org, e-mail: info@geaugaparkdistrict.org,]

Geauga Park District [9160 Robinson Road, Chardon, OH 44024-9148, phone: 440) 286-9516, fax: 440-286-1285, web: www.geaugaparkdistrict.org, e-mail: info@geaugaparkdistrict.org,]

Great Lakes Environmental Center (GLEC) [1295 King Avenue, Columbus, Ohio 43212, phone: (614) 487-1040, web: www.glec.com]

Hamilton County Park District [10245 Winton Road, Cincinnati, OH 45231, phone: (513) 521-PARK, web: www.hamiltoncountyparks.org/]

Heidelberg College [310 E. Market St., Tiffin, Ohio 44883-2462, phone: 1-800-HEIDELBERG, web: www.heidelberg.edu/academiclife/academ-icinformation/departments/biology]

Hiram College [P.O. Box 67, Hiram, Ohio 44234, phone: (330) 569-3211, web: home.hiram.edu/www/biology]

Hocking College [School of Natural Resources, 3301 Hocking Parkway, Nelsonville, Ohio 45764, phone: (877) 462-5464, web: www.hocking.edu/academics/schools/natural_resources]

Holden Arboretum [9500 Sperry Rd., Kirtland, OH 44094, phone: (440) 256-1110 or (440) 946-4400, web: www.holdenarb.org/home/]

John Carroll University [University Heights, OH 44118, phone: (216) 397-4294, fax: (216) 397-4981, web: www.jcu.edu/biology/]

Kent State University, Department of Biological Sciences [256 Cunningham Hall, PO Box 5190, Kent, OH 44242-0001, phone: 330-672-3613, fax: 330-672-3713, web: biology.kent.edu/]

Kenyon College, Brown Family Environmental Center [9781 Laymon Rd., Gambier, OH 43022, phone: 740-427-5050; e-mail contact: <heithaus@kenyon.edu>].


Lake Metroparks [11211 Spear Road, Concord Twp., OH 44077, phone: (440)-358-7275 or 1-800-227-7275, web: www.lakemetroparks.com]

Little Beaver Creek Land Foundation [130 Maple St, Lisbon, OH 44432, Phone: (330) 420-9507, Fax: (330) 424-0577, web: www.littlebeavercreek.com]

MAL Scientist and Associates [253 N. State Street, Suite 101, Westerville, OH 43081-1584, phone: (614)818-9156, fax: (614)818-9157, web: www.madscientistassociates.net, e-mail: mark@madscientists-associates.net]

Malone University, Department of Natural Sciences [2600 Cleveland Avenue NW, Canton OH 44709, phone: 1-800-521-1146, web: www3.malone.edu/academics/academic-directory/6]

Marietta College, Department of Biology and Environmental Science [Rickey Science Center, 215 S. 5th Street, Marietta, OH 45750, web: www.marietta.edu/~biol/]

Marietta College, Barbara A. Besier Field Station [Rickey Science Center, 215 S. 5th Street, Marietta, OH 45750, web: www.marietta.edu/~biol/field_station/fieldstation.html, e-mail: ksl002@marietta.edu]

Marietta Natural History Society [P.O. Box 983, Marietta, OH 45750, web: www.marietta.edu/~biol/mnhs/mnhs.html]

Marshall University [Division of Biological Sciences, One John Marshall Drive - Huntington, WV 25755, phone: (304) 696-3148, web: www.marshall.edu/biology/]
Miami County Park District [2645 East St., Rt. 41, Troy, OH 45373, phone: (937) 335-6273, fax: 937-335-6221; www.miamicountyparks.com]

Miami University - Botany [316 Pearson Hall, Oxford, OH 45056, phone: 513-529-4200, fax: 513-529-4243 web: www.cas.muohio.edu/botany/, e-mail: botany@muohio.edu]

Miami University - Department of Zoology [212 Pearson Hall, Oxford, OH 45056, phone: 513-529-3100, web: zoology.muohio.edu/]


College of Mount St. Joseph, Department of Biology [5701 Delhi Road, Cincinnati OH 45233-1670, phone: 513-244-4401, web: www.msj.edu/academics/departments/biology/]

Mount Union College, Biology Department [Bracy Hall, Alliance, OH 44601, phone: 330-823-3672, web: raider.muc.edu/bi/, e-mail: scottjj@muc.edu]

Mount Vernon Nazarene University, Biology Department [800 Martinsburg Rd., Mount Vernon, OH 43050, phone: 740-392-6868, web: www.mvnu.edu/academics/natsocsci/biology/biology.asp]

Muskingum College, Department of Biology [163 Stormont St., New Concord, OH 43762, phone: 740-826-8220, web: www.muskingum.edu/home/admission/majors/biology/1.html]

The Nature Conservancy, Indiana Chapter [1505 N. Delaware Street, Suite 200, Indianapolis, IN 46202, phone: (317) 951-8818, fax: (317) 917-2478, web: www.nature.org/wherewework/northamerica/states/indiana/]

The Nature Conservancy, Ohio Chapter [6375 Riverside Drive, Suite 100, Dublin, OH 43017, phone: (614) 717-2770]

Northern Kentucky University, Department of Biological Sciences [Nunn Drive, Highland Heights, KY 41099, phone: (849) 572-5110 web: biology.nku.edu/]

Oberlin College, Department of Biology [Science Center K123, 119 Woodland St., Oberlin, OH, 44074, phone: (440) 775-8315, fax: (440) 775-8960, web: new.oberlin.edu/arts-and-sciences/departments/biology/, e-mail: biology@oberlin.edu]

Ohio Bluebird Society [PMB 111, 343 W. Milltown Road, Wooster, OH 44691, web: www.obsbluebirds.com]

ODNR, Division of Forestry [2045 Morse Rd., Building H-1, Columbus, OH 43229-6693, phone: 614-265-6694, fax: 614/447-9231, web: www.dnr.state.oh.us/forestry]

ODNR, Division of Natural Areas and Preserves [2045 Morse Road, Bldg. C-3, Columbus, OH 43229, phone: (614) 265-6453, web: www.ohiodnr.com/dnap]

ODNR, Division of Parks and Recreation [2045 Morse Road, Bldg. C-3, Columbus, OH 43229], web: www.ohiodnr.com/parks for details of each event or call the number listed below.]

ODNR, Division of Wildlife [2045 Morse Road, Bldg. G, Columbus, OH 43229-6605, phone: 614-265-6300. web: www.ohiodnr.com/wildlife or call 1-800-WILDLIFE]


The Ohio Lepidopterists [1315 Kinnear Rd., Columbus, OH 43212, web: www.ohiolepidopterists.org/, e-mail: info@ohiolepidopterists.com]

Ohio Northern University [Ohio Northern University, 525 S. Main Street, Ada OH 45810, phone: 419-772-2325, web: www.onu.edu/a+s/biology/]

The Ohio Ornithological Society [P.O. Box 14051, Columbus, Ohio 43214, web: www.ohiobirds.org/, e-mail: info@ohiobirds.org]

Ohio Prairie Association [2412 Scheid Rd. Huron, OH 44839 OH, e-mail: Prairie@aol.com, web: www.OhioPrairie.org]

Ohio River Valley Water Sanitation Commission
(ORSANCO) [5735 Kellogg Avenue, Cincinnati, Ohio 45230, phone: (513) 231-7719, fax: (513) 231-7761, web: www.orsanco.org/]

The Ohio State University, Marion Campus [1469 Mt. Vernon Ave., Marion, Ohio 43302, phone: 740-725-6254, web: /library.marion.ohio-state.edu/]

The Ohio State University, School of Environment and Natural Resources [210 Kottman Hall, 2021 Coffey Road, Columbus, Ohio 43210, phone: 614-292-2265, web: senr.osu.edu/]

Ohio University - Biological Sciences [107 Irvine Hall, Athens, OH, 45701, phone: 740-593-2290, fax: 740-593-0300, web: www.biosci.ohiou.edu/]


Ohio Wesleyan University, Department of Zoology [61 S. Sandusky St., Delaware, OH 43015, phone: 740-368-3885, web: bio.owu.edu/zoo.htm]

Ohio Wildlife Center [6131 Cook Rd., Powell, Ohio 43065, phone: (614) 734-9453, web: www.ohio-wildlifecenter.org/index.cfm]

Royal Ontario Museum - Natural History [100 Queen’s Park, Toronto, ON, MSS 2C6]. web: www.rom.on.ca/collections/history.php]

Otterbein College, Department of Life and Earth Sciences [1 Otterbein College, Westerville, OH 43081, phone: (614) 823-1517, web: www.otterbein.edu/lifeearthsosciences/, e-mail: DRhodeback@otterbein.edu]

Ramser Arboretum [24565 Danville-Jelloway Road, Danville, Ohio, phone: 740-501-4166, e-mail: ramsers@axom.com]

Shawnee State University [940 Second Street, Portsmouth, Ohio 45662-4344, web: www.shaw-nee.edu/acad/ns/biology.html]

Stantec [11687 Lebanon Road, Cincinnati, OH 45241, phone: (513) 842-8200, fax: (513) 842-8250, web: www.stantec.com]

Strategic Environmental and Ecological Services, Inc. [653 McCorkle Blvd, Suite G, Westerville, OH 43082, phone: (614) 891-6905, fax: (614) 891-6915, web: www.strategicenvironmental.net/]


Metropolitan Park District of the Toledo Area [5100 W. Central Ave., Toledo, OH 43615, phone: (419) 407-9700, web: www.metroparks toledo.com]

Toledo Naturalists’ Association [19800 Sugar Creek Rd., Bowling Green OH 43402; e-mail: tna@wcnet.org; web: www.wcnet.org/~tna/]

University of Toledo Stranahan Arboretum [Make reservations with the Program Coordinator at (419) 841-1007].

The Toledo Zoo [Anthony Wayne Trail at 2 Hippo Way, Toledo, OH 43609, phone: (419) 385-5721 web: www.toledozoo.org/]

Transystems [5747 Perimeter Dr # 240, Dublin, OH 43017-3256, phone: (614) 336-8480, web: Transystems.com]

U.S. Fish & Wildlife Service, Ohio, Ecological Services Office [4625 Morse Road, Suite 104, Columbus, OH 43230, phone: 614-416-8993, web: www.fws.gov/midwest/Ohio/, e-mail: ohio@fws.gov]


U.S. Geological Survey, Ohio District [6480 Doubletree Ave., Columbus, OH 43229-1111, phone: (614) 430-7700, fax: (614) 430-7777, web: oh.water.usgs.gov/about_us.htm]

The Wheaton Club [e-mail: lieser@columbus.rr.com]
Ohio Biological Survey - Individual Membership

The Ohio Biological Survey has opened its membership to individuals. The Survey is an inter-institutional agency dedicated to the natural history and conservation of Ohio’s flora and fauna. Individual members are entitled to a 20% discount on all Survey publications, will receive the Survey’s newsletter, BioOhio, can participate in hosted or co-hosted workshops, field trips, or lecture series, and are eligible to apply for research monies through the Survey’s Small Grant Program. All the dues money will be returned to the membership through these benefits.

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For inquiries, please write or call:
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Columbus, OH 43221-0370
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