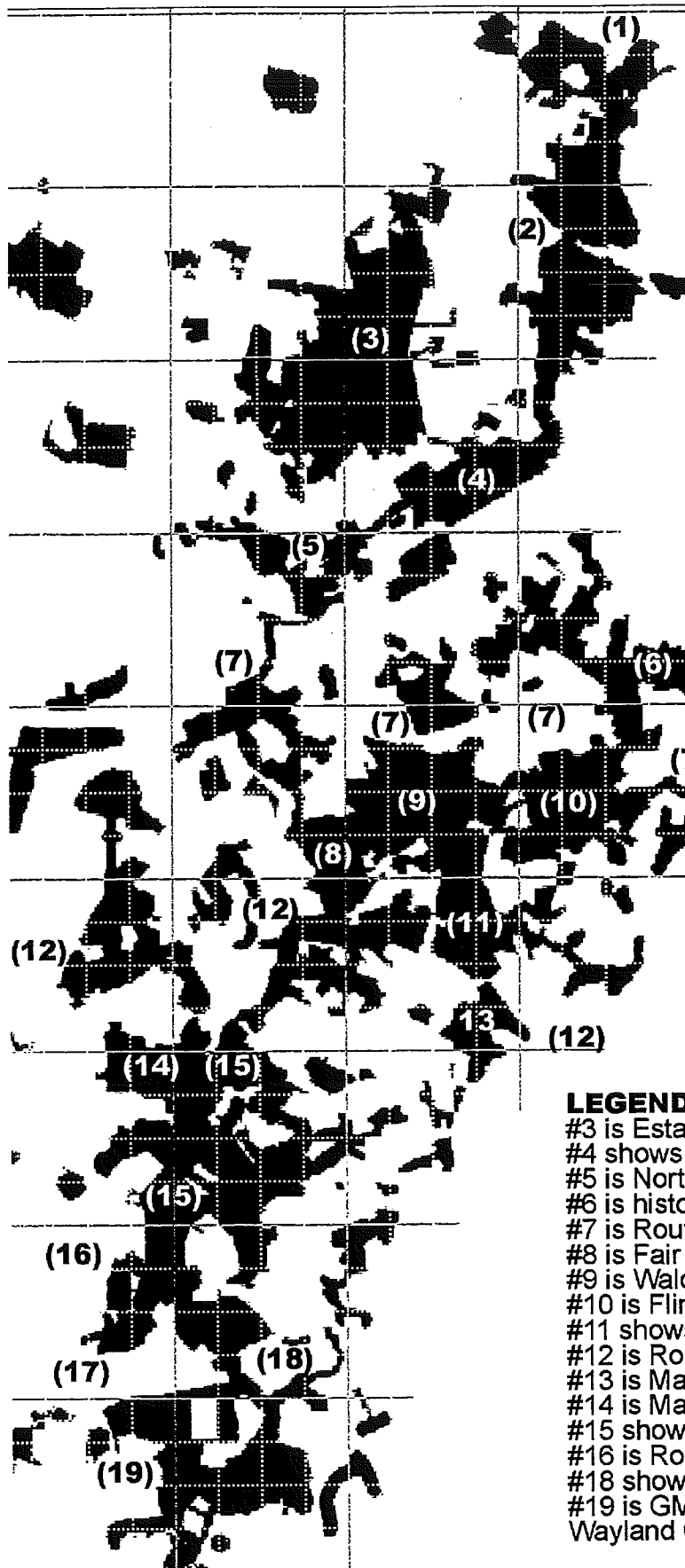




**A Bibliography of  
Biodiversity and Natural History  
in the Sudbury and Concord River Valley  
including the Great Meadows,  
Estabrook Woods, and Walden Woods**

**by Stephen F. Ells**





**CAPTION: What is the shape of sanctuary?**

This startling cover shows the more than 70 fragments of conserved land in this part of the Sudbury-Concord River valley, whether owned by the U.S., the state, towns, land trusts, MCZ, etc. Permanent conservation and agricultural preservation restrictions are also shown.

The map shows a 14-mile N-S part of the river from the Greenough Conservation Area near Route 4 in Carlisle at the top, to Heard Pond in Wayland at the bottom. This is the countryside of Thoreau, Brewster, Griscom, Eaton, and Allen Morgan.

Each block contains about 90 acres and is about 2000 feet on a side.

The fine news is that about 12,500 acres here have been saved for wildlife. About 3,500 of this is within Great Meadows NWR. The remainder is a mosaic of protection over 130 years. Much of this area is CORE HABITAT on the state's BIOMAP and will be in an international Important Bird Area.

The fragmentation is disturbing, & Route 2 cuts corridors, which need to be protected and enlarged. The BIOMAP also shows the valley risks isolation from other Core Habitats.

**LEGEND:** #1 is Route 4. #2 is Route 225. #3 is Estabrook Woods In Carlisle & Concord. #4 shows wildlife pools at GMNWR. #5 is North Bridge at MMNHP (Concord Riv.). #6 is historic landscape at MMNHP, & LCC. #7 is Route 2, cutting across 4 corridors. #8 is Fair Haven Bay (Sudbury River). #9 is Walden Pond and Walden Woods. #10 is Flint's Pond water protection area. #11 shows Lincoln open space lands. #12 is Route 117 through 9-Acre Corner. #13 is Mass Audubon's Drumlin Farm. #14 is MassWildlife's Pantry Brook WMA. #15 shows Weir Hill & Water Row of GMNWR. #16 is Route 27, and #17 is Route 20. #18 shows Wayland Center & Rts 20 & 27. #19 is GMNWR's Heard Pond & Wash Brook; Wayland CC Heard Farm; & SVT's Greenways.



**A BIBLIOGRAPHY  
of  
BIODIVERSITY and NATURAL HISTORY  
in the  
SUDBURY and CONCORD RIVER VALLEY**

**including the Great Meadows Wildlife Refuge,  
Estabrook Woods, and Walden Woods**

**by  
Stephen F. Ells**

**April, 2002**

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natural history research purposes.

Chief among the natural attractions of Concord, Massachusetts, is its charming little river, known as the Sudbury above the point where, near the village center, it unites with the Assabet, and below this as the Concord. The Indians called it the Musketaquid or Grass-grown River, a name not less appropriate than euphonious, for its sluggish waters abound in aquatic or semi-aquatic vegetation and its banks are fringed with wild grasses and sedges which stretch for miles along one or both sides of the placid, sinuous stream and in places also extend back to a greater or less distance over low, flat lands wet at all seasons and regularly inundated in early spring. These fresh-water marshes are of vast extent in Sudbury and Wayland and they cover hundreds of acres in the eastern part of Concord where they have been known, ever since the first settlement of the town, as the Great Meadows.

William Brewster in 1911

## Dedicated to these six naturalists of the valley



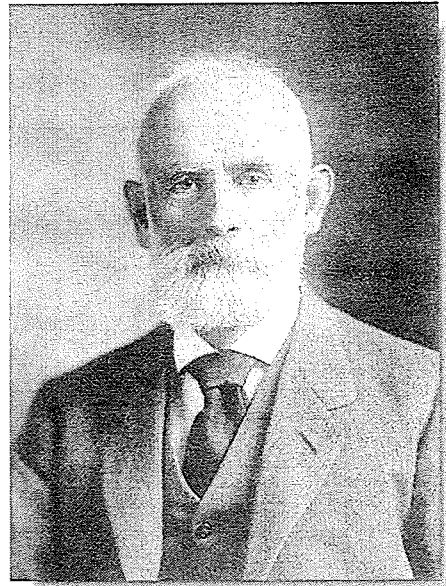
1. Ludlow Griscom



2. Richard Eaton



3. Ernst Mayr



4. William Brewster



5. Allen Morgan



6. Henry Thoreau





# **A Valley Biodiversity Bibliography**

## **Including parts of Wayland, Sudbury, Lincoln, Concord, Carlisle and Bedford**

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### **Introduction**

While doing a bird conservation project in the Wayland to Carlisle region of the Sudbury and Concord River valley, I realized it would be helpful if there were a biodiversity bibliography for this important landscape. There was not even a model for such a bibliography. I thought it should guide people to whatever had been written about the wild animals and plants in the wetlands, the ponds, the river, and the nearby upland habitat of forest and field. It would focus on data-rich studies, inventories, and articles about those species as they inhabited or migrated through this valley corridor. I also wanted to include a few references about land use and human history to provide a context; references about the great naturalists of the nineteenth century to give continuity; and references about pollution and invasive species to sound a warning.

To my surprise, the bibliography has grown to include more than four hundred substantive references about natural history in this small part of the valley over the last one hundred seventy years. Authors have included a world-eminent scientist, budding scholars, and dedicated amateurs. It was this type of species-specific or site-specific information that led Harvard's Ludlow Griscom to write in 1949, "A greater number of competent and nationally known naturalists and ornithologists have explored [this valley's] coverts than any other corner of the New World. Their records and data validate the interesting and sometimes profound changes that have taken place."

I have included studies that were done on the botany, zoology, and ecology, etc., of Wayland, Sudbury, Lincoln, Concord, Bedford, and Carlisle, Massachusetts within about two or three miles of the Sudbury or Concord River. I have taken care not to compromise the current location of any rare plant or animal. The bibliography's coverage is, however, not strictly limited to the watershed. Also, for convenience, those studies that are specific to the Estabrook Woods (in Concord and Carlisle) and to Walden Pond and Woods (in Concord and Lincoln) are gathered in separate

chapters. Though this bibliography covers only about fourteen miles of the valley's length, these have been the traditional haunts of a succession of naturalists. I, too, have been familiar with this countryside since boyhood.

I hope that this work will encourage others to extend biodiversity bibliography coverage to the sister tributary, the Assabet River (with its own new national wildlife refuge); to Hop Brook and the full SuAsCo watershed (with its complex water resource history and problems); and to other regions. Biodiversity Days may well spark such an interest. The format is flexible. Local conservation commissions, land trusts, sanctuaries, or public libraries could help. And by doing a biodiversity bibliography students of all ages could find out what is already known about their area and what needs research.

Is there a wider purpose to natural history studies, here and elsewhere? I think so. For example, the eminent scientist Ernst Mayr had a dual educational vision when in the 1960s he created, with Thomas Flint of Concord, Harvard's 700-acre ecology study area in the Estabrook Woods. His views can suggest a vision for the wider valley. First, he valued Estabrook Woods for it is a large, protected, typical, and varied tract that could give students from the entire area a *hands-on experience with nature*. He has written about how important this is both for science and for the wise conduct of human affairs:

"Since the investigation of diversity includes the study of relationships, organisms must be studied alive and in the field....It is about time we realize that the future of mankind is not something 'written in the stars,' something controlled by external forces, but that it is we humans ourselves who hold the fate of the species in our hands. We now have a fairly good idea what the major ills of mankind are and it has become quite clear that only a few of them are susceptible to purely technological solutions. Instead, most of them are of a behavioral-sociological nature and require a change in our value systems, a change one is not likely to accept unless one has a far better understanding of nature, of the dynamics of populations, of the biological basis of behavior, and of other components of the biology of organisms, than most of those have who are responsible for policy decisions. It will require a deeper understanding [and] massive education" [E. Mayr, "Museums and Biological Laboratories," *Brevoria*, 416:1-7 (MCZ Dec. 28, 1973)].

Mayr has advocated careful study of even a local environment. For example, Mayr used the well-studied flora of Concord to test whether the "biological species concept," a critical issue in evolutionary theory, applies to plants, which was a matter questioned by some botanists (Mayr 1992). And, in 1999 in a public "conversation" at Concord Academy, he advocated, in this time of climate change, study of the New England temperate forest:

"These dynamic movements of ecosystems—it is one of the most fascinating things to study. It is relatively easy to study but somebody has to take the leadership and start—'Now we are going to get going on this sort of thing.' ...I'm sure if somebody made a thorough study of the vegetation of Estabrook Woods, we would find unexpected discoveries. It needs a little imagination and needs leadership, that's all I want to say."

This is a dual educational vision—not only “thorough study” with a hands-on experience with nature but also “massive education” about our value system’s relationship with the natural world. It could be applied, as well, by the stewards of the whole Sudbury-Concord River valley. By happy chance, one hundred seventy years of observation in the valley has been supplemented by sixty years of conservation activism. This activism was sparked by Allen Morgan of the Massachusetts Audubon Society and the Sudbury Valley Trustees, and it spread. Thus, much of the historic landscape has been preserved in a mosaic of twelve thousand acres of public and private stewardship. It is a triumph of protection at the edge of Boston. Though the valley has been altered, fragmented, and isolated, it retains enough integrity to be designated in 2001 by the state’s Secretary of Environmental Affairs as Core Habitat for biodiversity protection in the state. The land stewards of the valley could jointly adopt a vision for their lands such as Mayr envisaged. And they could jointly decide to manage their lands (e.g., town conservation commissions, land trusts, schools, historical parks, sanctuaries, woods projects, field stations, reservations, and wildlife refuges) to promote and protect biodiversity in all ways. As Aldo Leopold might say, *they could think like a valley*.

Perhaps this bibliography can help. I know it is just a beginning (for we know so little about the natural world), and I would appreciate additional references. My thanks to many, including Dr. Warren Abrahamson of Bucknell University; Ray Angelo of the New England Botanical Club; Brad Blodget, H. W. Heusmann, Ellie Horwitz, and Paul Somers of Mass. Wildlife; Frances H. Clark of Lincoln; Dr. Robert Cook of the Arnold Arboretum; Dr. Bradley Dean of the Thoreau Institute; Chris Davis of US National Park Service; Jeff Eaton of Lincoln; Kristin Eldridge, Chris Leahy, Simon Perkins, and Wayne Petersen of Mass. Audubon Society; Douglas Greene of Reading Conservation Commission; Dr. Donald R. Griffin; Tom Gumbart of the Lincoln Conservation Commission; Ken Harte of Carlisle; Barbara Howell of Wayland; Scott Jackson of UMass; Stephanie Koch & Joseph McKeon of US Fish and Wildlife Service; Norman Levey of Lincoln; Ron Lockwood of Bolton; Ellen Meadors of Lincoln; Henry Norwood of Wayland; Lydia Rogers of Concord; Dr. Otto Solbrig of Harvard University; Mary and Eugene Walker of Concord; Special Collections of the Concord Free Public Library; and the Ernst Mayr Library of the Museum of Comparative Zoology. The cover was created by the author with data from the Sudbury Valley Trustees and many other sources. The image of Henry Thoreau is used with the permission of the Thoreau Society.

I particularly thank Dr. Ernst Mayr for his encouragement on behalf of Estabrook Woods and his opposition to Middlesex School’s development plans. I make special mention of Dr. Edmund A. Schofield, whose work on Walden Woods has been important. When he became aware of this effort to develop a bibliography for the valley, he kindly decided to make available his more comprehensive bibliography of Walden Woods as a companion document. My document and his complement each other. Both are available at the web address below.

In the bibliography, CFS refers to the Concord Field Station, the ecology research area owned by Harvard’s Museum of Comparative Zoology (MCZ) in the Esta-

brook Woods. MMNHP is the Minute Man National Historic Park in Concord. GMNWR is the Great Meadows National Wildlife Refuge. SuAsCo is the Sudbury-Assabet-Concord Rivers Watershed. CFPL is the Concord Free Public Library. Thoreau-related or natural history material can often be found at the CFPL Special Collections or the Henley Library of the Thoreau Institute (Lincoln MA & [www.walden.org](http://www.walden.org)). Natural history material can also be found at the Ernst Mayr Library of the MCZ (restricted access, but searchable through Harvard's HOLLIS).

One person has raised the interesting issue of where, in general, people can find and view this area's many environmental reports, theses, etc., that are not formally published. For example, environmental laws (e.g., NEPA, MEPA, Superfund, rare species, or wetlands laws) may have required a developer (e.g., a highway agency, a wetland-filler, a hazardous waste site, or the airport, etc.) to prepare project-specific wildlife inventories and analyses. These and other reports or theses may be only randomly available or may be difficult to access whether in hardcopy or on the web. In general, I found that CFPL's fine (and web-indexed) Special Collections had a good selection of unpublished or obscure documents, and a few were (inconsistently) filed with conservation commissions and other libraries. I also found documents in attics and in bare-bulb sub-basements next to whale skulls. Sadly, Drumlin Farm's Hathaway Library and the Concord Field Station's natural history center are now shut. I am encouraged that the Henley Library of the Thoreau Institute is expanding its environmental and natural history collection (also to be web-indexed), which will include part of the material formerly held at the Hathaway Library. Thus, the Henley Library may also be interested in material, either hard copy or digitized, about the Sudbury and Concord River Valley and beyond. I think this valley is fortunate to have such institutions as the Concord Free Public Library and the Henley Library available.

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## Sec. 1. NATURAL HISTORY THROUGHOUT THE VALLEY

### Section 1:

#### Studies about plants, animals, and natural history in the overall Sudbury-Concord River Valley

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[Stymeist, Robert; Richard A. Forster, Marjorie W. Rines, Simon A. Perkins, and others.] 197x to date. "Bird Sightings." *Bird Observer*. Sightings throughout the state are published, in each of six issues/year, by species with quantity and location. The following locations are standardized within coverage area: GMNWR (referring to the northerly unit, the Concord impoundments, of the national wildlife refuge), NAC (Nine Acre Corner, Concord), DFWS (Mass. Audubon's Drumlin Farm Wildlife Sanctuary, Lincoln), and SRV (referring to the Sudbury River valley portion of this bibliography). Though other sightings are located simply by town, e.g., "Wayland," these are still useful. Earlier regular reports of sightings (some in the valley) include the series "Records of New England Birds," edited in the 1930s by David L. Garrison and others; and Ruth Emery's 40 years of records for Mass. Audubon.

Sudbury Valley Commission. 1950. *Report of the Sudbury Valley Commission relative to the Sudbury River and its environs under chapter 34 of the Resolves of 1949 of the General Court [Legislature] of Massachusetts, March 1950* (Boston: Wright and Potter, 1950) 142 pp. An example of various reports on water supply, water quality, and flood control, some at CFPL.

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Thomas, L. A. 1992-3. "A salamander survey at Minute Man National Historical Park." 12 p. & 4 maps. At MMNHP Resource Mgmt Office.

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## Sec. 1. NATURAL HISTORY THROUGHOUT THE VALLEY

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Torrey, Bradford. 1889. "The 'booming' of the bittern." *The Auk*, 6(1): 1-8. First description in ornithological literature of the American Bittern's vocalization in Wayland's Wash Brook marsh. See, Maynard 1928. (Torrey relates approvingly that Wayland country people describe the sound as plum-pudd'n'.) Compare, Frank Bolles' descriptions (in Bolles 1891 herein) of "The bittern's love song" in Rock Meadow [Belmont] pp. 159-164; "Rock Meadow at night" pp. 176-180; and "The secrets of the meadow" pp. 181-189.

Tyler, W.M. 1914. "Notes on the nest life of the Brown Creeper in Massachusetts." *The Auk*, pp. 50-62. Local nesting in Lexington and Concord.

U.S. Soil Conservation Service. 1981? [Soil Survey of the Minute Man National Historical Park.] 100 pp. report in loose leaf binder. File memo by B. Hooper and B. Halainen of MMNHP, 2/26/82. At MMNHP Resource Mgmt Office.

US Bureau of Sports Fisheries and Wildlife. 1972. "Great Meadows National Wildlife Refuge Reptiles and Amphibians." Pamphlet RL-428.

US Environmental Protection Agency, Region One Office [Various reports on **Nyanza Chemical Waste Dump**, a National Priority List Superfund Site upstream in Ashland MA, and its mercury pollution of the Sudbury and Concord Rivers.] See, Nyanza Superfund Fact Sheet at <http://www.epa.gov/region1/superfund/sites/nyanza>>. Document repositories are at Ashland PL and US EPA Region One in Boston.

———. 2002? "USEPA: Surf Your Watershed—Concord River." Multiple web pages at <[http://www.epa.gov/surf/huc.cfm?huc\\_code=01070005](http://www.epa.gov/surf/huc.cfm?huc_code=01070005)>.

US Fish and Wildlife Service. [Anadromous fish restoration program.] A multi-year program to restore the alewife to the Sudbury-Concord River valley is now underway in cooperation with the state, and *spawning is occurring*. A comprehensive management plan for the Merrimack River Basin has been published by the USFWS. For information specific to the Sudbury-Concord River sub-basin, please contact the USFWS office in Nashua NH (603-595-3586) or Laconia NH (603-528-8750) or visit <<http://www.fws.gov/r5cneafp>>. Pers. comm. J. McKeon, March 20, 2002.

———. 2000. "Birds: Great Meadows, Assabet River, and Oxbow National Wildlife Refuges." Pamphlet.

———. [Various surveys and studies relating to the **Great Meadows National Wildlife Refuge**, in addition to those otherwise listed herein.] Available at the refuge headquarters at 73 Weir Hill Road, Sudbury MA 01776. Personal comm. from Stephanie Koch, March, 2002. (The Great Meadows National Wildlife Refuge spans 12 miles of the Sudbury-Concord River, with a total of about 3,500 acres in two units within the bibliography's area. See, <<http://www.fws.gov/r5fws/ma/grm.htm>>.) These surveys and studies include the following:

1. Breeding bird surveys for 2000 and 2001, ongoing until at least 2004.
2. Anuran surveys [certain amphibians] for 2000 and 2001, ongoing until at least 2004.
3. Marshbird surveys for 2000 and 2001, ongoing until at least 2004.
4. Woodcock surveys for 2000 and 2001, ongoing at least for 2002.
5. Shorebird use of impounded wetlands within USFWS Region 5, began in 2000 and ongoing. Includes weekly counts of migrating shorebirds.
6. Integrated wetland management for shorebirds and wintering waterfowl on USFWS Region 5 National Wildlife Refuges, began in 2000 and ongoing. Includes weekly counts of migrating waterfowl. (James Anderson, WVU, P.I.).
7. Bluebird box program and monitoring since late 1980's, maybe continued in future
8. Wood duck box program and monitoring since 1980's, likely ongoing, conducted by H. Heusmann (Mass. Wildlife).
9. West Nile Virus study (mist netting and bleeding neotropical migrants), 2001 and ongoing for at least 2002, conducted by Bob Dusek, National Wildlife Health Center).
10. Nontarget Aquatic Invertebrate Community Study, USFWS.
11. Various vegetation surveys—includes some specific to studies, some anecdotal information.
12. Deer study 2002, maybe ongoing, looking at movements and behavior in urban and rural deer.
13. Malformed frog studies: Annual reports by USFWS and Converse *et al.* (2000), cited herein.
14. Various species lists for mammals, birds, invertebrates, plants—based on biodiversity days, staff observations, etc.
15. Invasive species control studies for cattail, loosestrife, and water chestnut.
16. Midwinter bald eagle surveys late 1990s and ongoing, in conjunction with the state.

US Geological Survey "Concord River Drainage Basin" Home Page at <<http://ma.water.usgs.gov/basins/concord.htm>>.



## Sec. 1. NATURAL HISTORY THROUGHOUT THE VALLEY

US National Park Service, **Minute Man National Historical Park**. Approx. 25 documents on various subjects are individually listed herein alphabetically by author or subject. Also, census programs are currently underway (or reports are in press) on fish, herps, and birds. Water quality data are also available. Pers. comm. from Chris Davis, March 15, 2002. Park home page is at <<http://www.nps.gov/mima>>.

———. 1996. "Ecological Monitoring of Elm Brook Wetland." Report submitted to Lincoln, Mass. Conservation Commission, August 1996. At MMNHP Resource Mgmt Office.

US National Park Service, Wild and Scenic Rivers Program 1996. "Sudbury, Assabet and Concord Wild and Scenic River Study Draft Report." Nov. 26, 1996. (Final designation occurred on April 9, 1999.) Web page at <<http://www.nps.gov/rivers/wsr-suasco.html>>. Also see materials at CFPL.

Veit, Richard R., and Wayne R. Petersen. 1993. *Birds of Massachusetts*. (Massachusetts Audubon Society.) 514 pp. Species by species discussion of arrival time, abundance, and with summary breeding maps.

Walker, Eugene H. 1974. "Minerals of Concord," *The Concord Saunterer*, 9(3): 1-6 (Sept.).

Walker, Mary M. 1993. "A History of Concord's Flora." In: *Thoreau's World and Ours*, ed. by Edmund A. Schofield and Robert C. Baron (Golden CO: N. American Press) p. 190-195, and reprint at CFPL.

Walker, W.W. 1988. "White Pond water quality studies." (Concord, Mass.: White Pond Advisory Committee.) 28 pp.

Walls, Laura Dassow. 1995. *Seeing New Worlds: Henry David Thoreau and Nineteenth-Century Natural Science* (Madison WI: U Wisconsin P.) Thoreau scholar examines his observations of nature., esp. p 136-147.

Walton, Richard K. 1984. *Birds of the Sudbury River Valley: A Historical Perspective* (Lincoln MA: Mass. Audubon Society.) 220pp. Valuable successor to Griscom 1949.

———. 1990. "Thoreau: speaking for birds." *Bird Observer*, 18(4): 205-209 (August).

"Where to Find Herons." 1982. *Bird Observer*, 10(3): 121 (June.) A where-to-find-birds article with references to the valley.

White, Jack C. 1914. "A List of Mammalia collected at Concord, Mass.[from 1901-1914]." *Proceedings of the Thoreau Museum of Natural History*. Vol. 1, (December 24, 1914), p.33-36. (See also, Howe, 1901.)

Whitford, Kathryn. 1950. "Thoreau and the woodlots of Concord." *The New England Quarterly*. 23: 291-306 (September).

Whitford, Philip and Kathryn Whitford. 1951. "Thoreau: Pioneer Ecologist and Conservationist," *Scientific Monthly* LXXIII (Nov.): 291-6.

Whitney, Gordon C. and William C. Davis. 1986. "From primitive woods to cultivated woodlots: Thoreau and the forest history of Concord, Mass." *Journal of Forest History*, 30(2): 70-81 (April).

Wilcox, J. C. and W. E. Fuchs. 1999. "Vascular Plant inventory of a portion of Minute Man National Historical Park." Unpublished. 10 p. At MMNHP Resource Mgmt Office.

"Wildlife Observations [at Minute Man NHP]." 1981 to date. Loose leaf notebook maintained in MMNHP Resource Mgmt Office.

Windmiller, Bryan. 1993. "The status of the Elderberry Borer Beetle, *Desmocerus palliatus*, in Concord, Massachusetts." Final report to Mass. Natural Heritage and Endangered Species Program. (Jan. 18).

Windmiller, Bryan S. 1996. "The pond, the forest, and the city: spotted salamander ecology and conservation in human-dominated landscape." (Ph.D. Dissertation, Tufts University, Medford, Mass.)

Windmiller, Bryan, and Richard K. Walton. 1992. "A survey of selected fauna [at MMNHP] with recommendations for wildlife conservation and habitat management." Report. 43 p. plus maps. At MMNHP Resource Mgmt Office.

Wright, H. W. 1909. "Nesting of Blue-winged Warbler at Sudbury." *The Auk*, pp. 337-345.

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Zielinski, Sally A. 1992. "Population studies of the rare species *Viola brittoniana* Pollard in Massachusetts: 1991 and 1992." Report for Minute Man NHP. 68 pp. At MMNHP Resource Mgmt Office.

Zuzmeskus, Dan. 1982. "Elm Brook, Minute Man National Park." One page memo to files dtd May 5, 1982 re brook fisheries. At MMNHP Resource Mgmt Office in Wildlife Observation looseleaf.

Zwinger, Ann and Edwin Way Teale. 1982. *A Conscious Stillness: Two Naturalists on Thoreau's Rivers* (NY: Harper & Row) 243 pp.

**Sec. 2. NATURAL HISTORY STUDIES  
ABOUT THE ESTABROOK WOODS**

Section 2.

**Articles on plants, animals, and natural history  
specific to Estabrook Woods**

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———. 1973. Plant list for the Concord Field Station. MS, 7 pp. Not located.

———. 1973. "Concord Field Station Herbarium." MS, 4 pp. [As of 2002, the herbarium is at the New England Wildflower Society.] Not located.

Arnold, Peter. 1967. [Checklist of mammals Seen in Estabrook Woods by Peter Arnold (in 1960s) and Reginald Heber Howe (in 1900s).] (MS at CFS & etc.)

———. 1968. "In Thoreau's [Estabrook] Woods" *Massachusetts Audubon* 52: 2-9. Natural history, esp. amphibian. At CFPL and in Buerger 1994 at p. 241-44.

Boston Mycological Club. Annually through 2001 at least. "Checklists of Mushroom Walks" [and similar titles.] Species lists—and often species photographs—observed on annual walks in the Estabrook Woods, etc. Posted at <<http://www.bostonmycologicalclub.org>>.

Brain, J. Walter. 1994. "Vegetation and Wildlife Habitat Inventory and Assessment of the Middlesex School Proposed Expansion Area in the Estabrook Woods in Concord, Mass.: A Report for the Concord Natural Resources Commission." Report of plants, birds, and habitat. In Buerger 1994 at p.144-163.

———. 1994. "Field Observations in the Estabrook Country- Field Notes." MS. In Buerger 1994 at pp. 139-43.

Buerger, Janet; Carolyn Davies, and Cindy McLean-Greeley. 1994. *Estabrook Woods, Thoreau's Other "Great Wild Tract," Portfolio I: A Collection of Information (Concord and its Natural Resources Series)*. (Concord MA: League of Women Voters of Concord-Carlisle, December 1994.) 485 pp. Many Estabrook references are reprinted in this compilation. The most complete and last version has a light blue cover and is additionally titled "Preliminary Report of the Environment Committee, December 1994." A less useful (because less site-specific), earlier version has a pink cover and is additionally titled "Draft Interim Report" with cover caption "Portfolio 1, 1/1994" [i.e. January 1994]. (There is also a separate, yellow-covered "Summary" volume of 42 pp., issued in Dec., 1994 as a companion to the blue volume.) Copies of the blue Dec. 1994 version are in the Thoreau Institute's Henley Library in Lincoln and, I believe, in Middlesex School's library.

Carnegie, III, G. M. 1901. "A List of Batrachia Collected at Concord, Mass." *Proceedings of the Thoreau Museum of Natural History at Middlesex School*, vol. 1: 31-32.

Chapin, Sarah. [Sarah S. Hall.] 1975. "Estabrook Woods Moss Study." (Report for Concord Field Station. 31 pp.) At CFPL.

———. 1975. "Mosses on 5 acres in Estabrook Woods." Pamphlet. 15 pages with map. At CFPL.

———. 1976. "Eleven Weeks at Turtle Pond." MS. 53 pp. and transparencies. (ID of bryophyta and vascular flora and analysis of recreational impact near Punkatasset Hill.) At CFPL.

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"Concord Field Station Fungi." 1972. MS, 1 page. Not located. Referred to in Woodruff.

Concord Field Station. Ca. 1990. "Natural History Collections of the Concord Field Station." Poster. Describes 3,000 specimen herbarium of New England plants; diatom slide collection; 1,000 local species of insects; and spider collection, as well as natural history services offered to the public and to volunteers. (About the year 2000, the natural history and population studies center at the CFS was closed and its collections dispersed. The CFS's former herbarium collection is intact and is now in the good hands of The New England Wild Flower Society in Framingham. The insect collection may have gone to Great Meadows NWR headquarters in Sudbury.)

Cook, Robert E., "Fragile Blossoms of Spring Aren't Shrinking Violets." 1978. *Smithsonian*. 8: 64-71. The current director of the Arnold Arboretum engagingly reports on his post-doctoral work in Estabrook.

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## Sec. 2. NATURAL HISTORY STUDIES ABOUT THE ESTABROOK WOODS

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Ells, Stephen F. 1996. "Henry Thoreau and the Estabrook Country: A Historic and Personal Landscape," *The Concord Saunterer*, n.s., v. 4: 72-148 (Fall). (Lincoln MA: The Thoreau Society.) History, literary tradition, observation of nature.

———. 1999. *The Seasons in Estabrook Country*. (Lincoln, Mass.: by the author.) 112 pp. Anthology: background, land use and conservation history, bibliography of the Estabrook Woods-Easterbrooks Country.

———. 2002. "Ernst Mayr on environmental education and the MCZ's Concord Field Station in the Estabrook Woods: a collection of remarks." MS. 3 pp. dated March 10.

Evans, H.E., and F. D. Atwood. 1974. "Solitary Wasps of the Concord Field Station Area." Being No. 12 of *A Guide to Resources of Concord Field Station*, ed. D.S. Woodruff. Cambridge: Museum of Comparative Zoology. 10 pp.

Fitzgerald, Desmond, "Land Use History of the Estabrook Woods [in Concord, Mass. From 1636-1974]." Cambridge: 1974 (MCZ mimeo typescript at CFPL without maps or bibliography; draft?). [Intended to be Number 14 in "*Guide to the Resources of the Concord Field Station*", ed. by D.S. Woodruff. (Cambridge: MCZ)].

[Flint, Thomas, and Lawrence Terry, co-chairs]. "Ecological Study Area [in Estabrook Woods] for the Biological Community of Harvard University." (Cambridge: Museum of Comparative Zoology, 1967). (At CFPL and in Buerger 1994 at p. 280-86.)

Gadgil, M., and Otto T. Solbrig. 1972. "The Concept of R- and K- selection: Evidence From Wild Flowers and Some Theoretical Calculations." *Amer. Nat.* 106: 14-31.

Griffin, Donald R. 1958 & 1986. *Listening in the Dark: The Acoustic Orientation of Bats and Men*. (New Haven: Yale UP; reprinted by Cornell UP.) Bat echolocation studies were done in area, according to Dr. Griffin, "especially in and around barn then Emerson's, now Rodday's [near end of Estabrook Road] and along Monument Street." These activities supplied significant data for some scientific papers and for this book. Recently, Dr. Griffin has been for almost a decade observing and video-taping beaver life inside a lodge in Estabrook Woods. Among his other books are *Animal Minds* (Chicago UP, 1992); and *The Question of Animal Awareness* (Rockefeller UP, 1976-81).

Henry, Charles S. 1973. "Climate and Meteorology [of Concord Field Station]." Being No. 6 of: *A Guide to Resources of the Concord Field Station*. (Cambridge: Museum of Comparative Zoology). 10 pp.

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Littlejohn, J.J. 1974a. "Physiography and Geology" in draft. (To be No. 9 of *A Guide to Resources of Concord Field Station*, ed. D.S. Woodruff). Uncertain whether it was issued in final.

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Lockwood, Ronald B., and Kenneth J. Harte, compilers. 2002a. "State-Listed and High Conservation Priority Species of Estabrook Woods: Data provided by Kenneth J. Harte, Ronald B. Lockwood, and Richard K. Walton, 5 February 2002." 2 pp. An-

## Sec. 2. NATURAL HISTORY STUDIES ABOUT THE ESTABROOK WOODS

notated checklist prepared for MassAudubon as part of nomination of Sudbury-Concord River Valley Important Bird Area.

Lockwood, Ronald B., and Kenneth J. Harte, compilers. 2002b. "Avifauna of Estabrook Woods: Data provided by Kenneth J. Harte, Ronald B. Lockwood, and Richard K. Walton, 5 February 2002." 6 pp. This is the first authoritative bird list for Estabrook Woods—an annotated checklist of 159 species of birds seen in last 36 years. Appendix is a list of 104 species seen at Middlesex School grounds in ca. 1904, prob. by Reginald Heber Howe Jr. It is available at  
<[http://www.walden.org/scholarship/e/ells\\_steve/estabrook/birds](http://www.walden.org/scholarship/e/ells_steve/estabrook/birds)>.

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Mass. Natural Heritage Program, Division of Fisheries and Wildlife. 1995-2001. [Various opinion letters on the five state-listed species in Middlesex project area in Estabrook Woods, all in NHESP File 95-21, 1995-2001.]

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———. ca. 1965. "Proposal for a 700 Acre Ecological Outdoor Laboratory Within 20 Miles of Cambridge at Concord, Massachusetts." 6 pp. and map. Reviewed by Dr. Mayr and authorship confirmed by him as the proposal he prepared for submission to Ford Foundation.

———. 1966a. "The Concord Field Station: An Ecological Outdoor Laboratory Within 20 Miles of Cambridge at Concord, Massachusetts." (Cambridge: MCZ, rev. Nov. 1966.) 8 pp.

———. 1966b. "The Director's Sounding Board." *Museum of Comparative Zoology Newsletter*, 6 (July 1).

[———.] 1966c?. "Plans for Research at the Concord Field Station of the Museum of Comparative Zoology." Cambridge: MCZ, June. 5pp. J. TS, 5 pp. At CFPL and in Buerger 1994 at p.291-295.

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Myer, Mary E., and Nancy Ranney. 1976. *Aesthetic Management of New England Woodlands*. (Bedford MA: Concord Field Station.) Pamphlet describing forestry

demonstration project in Estabrook Woods. [Compare, D. I. King, and R. M. De-Graaf. "Silvicultural options for managing birds in northeastern hardwood forests in extensively forested landscapes." *Bird Observer*, 27(5): 232-240 (Oct. 1999). (Not site-specific to valley but has extensive bibliog.)]

Rines, Marjorie W. 1998. "Biodiversity Day." *Bird Observer*, 26(5): 224-28. Description of the commencement of this new naturalists' event, including activities in Estabrook Woods, including presence of black bear.

Rockwood, John P. (for Sanford Ecological Services). 1995. "Evaluation of [rare NHESP species on the project area] and mitigation alternatives: East Fields Site Plan, Middlesex School, Concord, Mass." Report to NHESP and Concord NRC on behalf of Middlesex School (Sept. 1, 1995) and various other rare species reports in NHESP File 95-21 from 1995-2001.

Walden Keeping Track. 2002 et seq. [Periodic surveys of certain area-sensitive animals which provide a good indication of habitat health. Survey areas include a portion of Estabrook Woods.] Contact Lydia Rogers <lydiarogers@earthlink.net>. A local affiliate of Keeping Track of Huntington, VT.

Walton, Richard K. 1994. [Census of birdlife in Estabrook Woods on grounds of Middlesex School, May 17-June 7, 1994]. Report to Concord MA Natural Resources Commission (typed, 7 pp., July 24.)

Windmiller, Bryan and Frances H. Clark. 1998. "An ecological inventory and assessment with recommendation for the ecological stewardship of the Newbury Woods [Concord, Mass.]." Report sponsored by The Concord Land Conservation Trust and the Sweet Water Trust.

Woodruff, David S., editor. 1973-74. *Concord Field Station - A Guide to Resources*. (Cambridge: MCZ.) A series of at least 12 booklets about the Estabrook Woods, individually cited herein.

Woodruff, David S. 1973. "Corrigenda for Estabrook Woods and Pickman Area Maps." Dated Nov. 2. Contained corrections to vegetation annotations on these resource maps.

———. 1974. "Introductory Notes, No. 8," (Being No. 8 in the series "A Guide to Resources of Concord Field Station", ed. by D.S. Woodruff) (Cambridge: Museum of Comparative Zoology). Excellent summary of history and has bibliography of research. (At CFPL and in Buerger 1994 at pp.301-14 and pp. 477-85.)



**Sec. 3. NATURAL HISTORY STUDIES ABOUT  
WALDEN WOODS and WALDEN POND**

**Section 3.**

**Walden Woods & Walden Pond:  
articles on plants, animals, and natural history.**

Note: certain of the articles in preceding sections will be useful here, also. Special attention is also directed to Dr. Edmund Schofield's detailed and comprehensive bibliography of Walden Woods, cited below.

Angelo, Raymond L. 1983. Two Thoreau letters at Harvard. *Thoreau Society Bulletin*. 162:1-2. Winter. Letters to B.M. Watson about plants collected at Walden in August 1843.

Baystate Environmental Consultants, Inc. 1995. "Study of Trophic Level Conditions of Walden Pond, Concord, Massachusetts." (Mass. Dept. Envir. Mgmt, Div. Res. Conserv. 111 p.).

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