

**Minnesota Citizen Science Programs:**

<b>Phenomenon</b>	<b>Project Name</b>	<b>Specific Activities</b>	<b>Organization, Web Site</b>	<b>Contact</b>	<b>status</b>	<b>Biome Link</b>
<b>Birds</b>	<b>Bluebird Recovery Program</b>	Volunteers keep track of what bird species are nesting in about 4,000 pairs of nest boxes. Started in 1980.	Bluebird Recovery Program, a committee of the Minneapolis Chapter of the National Audubon Society. <a href="http://www.geocities.com/RainForest/5835/bbindex.htm">www.geocities.com/RainForest/5835/bbindex.htm</a>	Audubon Chapter of Minneapolis, P.O. Box 3801, Mpls MN 55403	Checked 4/12 by ko 8/23/06 AR	BW 4 PP3
<b>Animal and plant phenology</b>	<b>Journey North</b>	Students & other citizens monitor the northward migration of several species.	Journey North <a href="http://www.learner.org/jnorth/">http://www.learner.org/jnorth/</a>	Elizabeth Howard, 6234 Mt. Philo Rd., Charlotte, Vt. 05445, (802) 425 2252 <a href="mailto:ehoward@jnorth.org">ehoward@jnorth.org</a>	Checked 4/12 by ko 8/22/06 AR	BW3,4 PP3
<b>Plants in prairies</b>	<b>Prairie Care Program</b>	Volunteers monitor vegetation at Wild River State Park. Bloom dates and seed ripening dates are recorded annually for every species for which a volunteer is available. Primary purpose of the project is to increase the diversity of species used to re-establish prairie and oak savanna on formerly farmed land within the park.	Minnesota Department of Natural Resources <a href="http://www.dnr.state.mn.us/volunteering/central_metro.html">http://www.dnr.state.mn.us/volunteering/central_metro.html</a>	Dave Crawford <a href="mailto:dave.crawford@dnr.state.mn.us">dave.crawford@dnr.state.mn.us</a> 651/583-2125	Checked 4/13 by AW 8/23/06 AR	PP3
<b>Zebra mussels</b>	<b>Volunteer Zebra Mussel Monitoring Program</b>	Volunteers watch for zebra mussels on lakes where they have homes or cabins.	Minnesota Department of Natural Resources	Gary Montz, 651/297-4888 <a href="mailto:Gary.Montz@dnr.state.mn.us">Gary.Montz@dnr.state.mn.us</a>	AW couldn't find Contacted by AR 8/23/06 OK	BW 6 PP6
<b>Frogs and toads</b>	<b>Minnesota Frog &amp; Toad Calling Survey (MFTCS)</b>	Volunteers identify calling frogs and toads on a ten-stop roadside route. Data are collected after dark during three periods between 4/15 and 7/10. Routes have been run since 1993.	Minnesota Department of Natural Resources <a href="http://www.dnr.state.mn.us/volunteering/frogtoad_survey/index.html">http://www.dnr.state.mn.us/volunteering/frogtoad_survey/index.html</a>	Rich Baker <a href="mailto:rich.baker@dnr.state.mn.us">rich.baker@dnr.state.mn.us</a> 651/297-3764	Checked 4/14 AW 8/23/06 AR	BW 7 PP3
<b>Loons</b>	<b>Minnesota Loon Monitoring Project</b>	Volunteers survey loons on 600 lakes	Minnesota Department of Natural Resources <a href="http://www.dnr.state.mn.us/ecological_services/nongame/projects/loon_survey.html">http://www.dnr.state.mn.us/ecological_services/nongame/projects/loon_survey.html</a>	Pam Perry <a href="mailto:pam.perry@dnr.state.mn.us">pam.perry@dnr.state.mn.us</a> (218) 828-2228.	No info on how to volunteer 4/14 AW OK 8/23/06 AR	BW 6 PP3

<b>Lake levels</b>	<b>Lake Level Minnesota</b>	Volunteers record readings on lake level gauges weekly.	Minnesota Department of Natural Resources <a href="http://www.dnr.state.mn.us/volunteering/lakelevelmn.html">www.dnr.state.mn.us/volunteering/lakelevelmn.html</a>	Bob Potocnik <a href="mailto:Robert.Potocnik@state.mn.us">Robert.Potocnik@state.mn.us</a> 651/296-0438	Checked 4/14 AW 8/23/06 AR	PP6
<b>Natural areas</b>	<b>Scientific and Natural Areas Program</b>	Preserves 130 natural areas, including landforms, fossil remains, plant and animal communities, rare and endangered species, or other biotic features and geological formations, for scientific study and public edification as components of a healthy environment.	Minnesota Department of Natural Resources, Division of Ecological Services <a href="http://www.dnr.state.mn.us/volunteering/sna/index.html">http://www.dnr.state.mn.us/volunteering/sna/index.html</a>	Renee Vail 651-259-5249 <a href="mailto:renee.vail@dnr.state.mn.us">renee.vail@dnr.state.mn.us</a>	Checked 4/14 AW 8/23/06 AR	BW 3, 4 PP4
<b>Ice cover</b>	<b>Citizen Ice Cover Monitoring Program: IceWatch</b>	Ice-on and Ice-off Dates for several hundred lakes in Minnesota.	Minnesota Department of Natural Resources, State Climatology Office <a href="http://climate.umn.edu/doc/ice_out/ice_out_historical.htm">http://climate.umn.edu/doc/ice_out/ice_out_historical.htm</a>	Pete Boulay <a href="mailto:peter.boulay@dnr.state.mn.us">peter.boulay@dnr.state.mn.us</a> 651/296-4214	Checked 4/14 AW Checked 8/23/06 AR	BW 6 PP6
<b>Forests</b>	<b>Forest Resource Monitoring</b>	Forest resource monitoring under the Sustainable Forest Resources Act is a way to compile and synthesize this information into a comprehensive report on Minnesota's forest resource conditions and trends. Members of the public can contact the MFRC regarding their concerns about specific forest management practices.	Minnesota Forest Resources Council (MFRC) <a href="http://www.frc.state.mn.us/">http://www.frc.state.mn.us/</a> or <a href="http://www.frc.state.mn.us/monitor/PCRP.htm">http://www.frc.state.mn.us/monitor/PCRP.htm</a>	Dave Zumeta, Executive Director, 35a NRAB, 2003 Upper Buford Circle, St. Paul, MN 55108 phone: 651/ 603-0108, fax: 651/603-0110 <a href="mailto:dzumeta@tc.umn.edu">dzumeta@tc.umn.edu</a>	4/14 AW Checked 8/23/06 AR	BW 3
<b>Wetlands</b>	<b>Wetland Citizen Monitoring Program</b>	Volunteers assess vegetation and invertebrate populations in wetlands. Started 1997. 30 wetlands in Dakota County and 8 wetlands in Hennepin County	Minnesota Pollution Control Agency <a href="http://www.mnwhep.org/">http://www.mnwhep.org/</a>	Mark Gernes <a href="mailto:Mark.Gernes@state.mn.us">Mark.Gernes@state.mn.us</a>	Checked 4/14 AW Web Ok 8/23/06	BW 6 PP6
<b>Lakes</b>	<b>Citizen Lake Monitoring Program</b>	Lake transparency monitoring with a Secchi Disk. Started 1973, currently 850 lakes.	Minnesota Pollution Control Agency <a href="http://www.pca.state.mn.us/water/clmp.html">http://www.pca.state.mn.us/water/clmp.html</a>	Jennifer Klang <a href="mailto:jennifer.klang@pca.state.mn.us">jennifer.klang@pca.state.mn.us</a>	Checked 4/14 AW 8/23/06 AR	BW6 PP6

<b>Streams</b>	<b>Citizen Stream Monitoring Program</b>	Stream transparency monitoring with special tube, plus stream water level and condition monitoring; rain amounts at volunteers' homes. Started in 1998, currently 400 sites.	Minnesota Pollution Control Agency <a href="http://www.pca.state.mn.us/water/csmp.html">http://www.pca.state.mn.us/water/csmp.html</a>	Laurie Sovell <a href="mailto:laurie.sovell@pca.state.mn.us">laurie.sovell@pca.state.mn.us</a>	Checked 4/14 AW 8/23/06 AR	BW6 PP6
<b>Lakes</b>	<b>Lake Assessment Program</b>	Lake water quality surveys with a focus on nutrients and eutrophication. Includes temperature and oxygen profiles. Data and detailed reports available.	Minnesota Pollution Control Agency. <a href="http://www.pca.state.mn.us/water/lakequality.html">http://www.pca.state.mn.us/water/lakequality.html</a>	Steve Heiskary <a href="mailto:Steven.Heiskary@state.mn.us">Steven.Heiskary@state.mn.us</a> 651/296-7217	Checked 4/14 AW Web OK 8/23/06 AR	BW6 PP6
<b>Birds</b>	<b>Christmas Bird Count</b>	Volunteers count birds on single day in winter; started in 1900. Implemented by multiple Audubon chapters in the state. Audubon Minnesota can serve as a central contact/referral point for these surveys.	National Audubon Society <a href="http://www.audubon.org/bird/cbc">www.audubon.org/bird/cbc</a>	Audubon Minnesota, Mark Martell, Director of Bird Conservation, 2357 Ventura Drive, Suite 106, Saint Paul, MN 55125 Phone: (651) 739 – 9332 <a href="mailto:mmartell@audubon.org">mmartell@audubon.org</a>	Checked 4/14 AW 8/23/06 AR	BW 4 PP3
<b>Weather</b>	<b>National Weather Service Cooperative Observer Program</b>	Volunteers take weather observations where they live and work, since 1890.	National Weather Service <a href="http://www.nws.noaa.gov/om/coop">http://www.nws.noaa.gov/om/coop</a>	<a href="mailto:Andy.Horvitz@noaa.gov">Andy.Horvitz@noaa.gov</a>	Checked 4/14 AW 8/23/06 AR	BW1 PP1
<b>Butterflies</b>	<b>NABA 4th of July Butterfly Counts</b>	Volunteers identify and count butterflies in a 15 mile diameter circle.	North American Butterfly Association <a href="http://www.naba.org/counts.html">www.naba.org/counts.html</a> or <a href="http://www.naba.org">www.naba.org</a>	NABA Butterfly Counts, 2533 McCart, Fort Worth, TX 76110 <a href="mailto:naba@naba.org">naba@naba.org</a>	Checked 4/13 AW 8/23/06 AR	BW4 PP3
<b>Rivers</b>	<b>River Sentinels / River Watch</b>	Citizen Volunteers monitor Minnesota's rivers and streams	Minnesota Waters <a href="http://www.minnesotawaters.org/">http://www.minnesotawaters.org/</a>		Checked 4/14 AW 8/23/06 AR	BW6 PP7

<b>Worms</b>	<b>Minnesota Worm Watch</b>	Citizens and students collaborate with University of Minnesota scientists on research to assess the impacts of invading exotic earthworms on forests and other natural habitats.	University of Minnesota Natural Resources Research Institute <a href="http://www.nrri.umn.edu/worms">www.nrri.umn.edu/worms</a>	Cindy Hale, Natural Resources Research Inst., University of Minnesota Duluth, 5013 Miller Trunk Highway, Duluth, MN 55811-1442 (218) 720-4364 <a href="mailto:halex004@tc.umn.edu">halex004@tc.umn.edu</a>	Checked 4/13 AW 8/23/06 AR	BW4
<b>Birds</b>	<b>Breeding Bird Survey</b>	Monitors North American birds in the US and Canada. Following a rigorous protocol, BBS data are collected by thousands of dedicated participants along thousands of randomly established roadside routes throughout the continent. Professional BBS coordinators and data managers work closely with researchers and statisticians to compile and deliver these population data and population trend analyses on more than 400 bird species, for use by conservation managers, scientists, and the general public.	USGS <a href="http://www.pwrc.usgs.gov/BBS/">http://www.pwrc.usgs.gov/BBS/</a>	Keith_Pardieck@usgs.gov	Checked 4/14 AW 8/23/06 AR	BW4 PP3
<b>Birds</b>	<b>Cornell Lab of Ornithology</b>	Ebird, Feeder Watch, and Great Backyard Bird Count	<a href="http://www.birds.cornell.edu/pfw/index.html">http://www.birds.cornell.edu/pfw/index.html</a>	Project FeederWatch, Cornell Lab of Ornithology, 159 Sapsucker Woods Road, Ithaca, NY 14850 Phone: (607) 254-2427 Toll free: (800) 843-2473 (BIRD) <a href="mailto:feederwatch@cornell.edu">feederwatch@cornell.edu</a>	Checked 4/13 AW 8/23/06 AR	BW4 PP3

<b>Weather</b>	<b>GLOBE</b>	GLOBE (Global Learning and Observations to Benefit the Environment) is a worldwide hands-on, primary and secondary school-based education and science program.	<a href="http://www.globe.gov/globe_flash.html">http://www.globe.gov/globe_flash.html</a>	1-800-858-9947 <a href="mailto:help@globe.gov">help@globe.gov</a>	For teachers and students 4/14 AW 8/23/06 AR	BW 1 PP1
<b>Precipitation</b>	<b>High Density Precipitation Network</b>	Uses rain gauges to monitor precipitation levels.	<a href="http://climate.umn.edu/HIDENsityEdit/HIDENweb.htm">http://climate.umn.edu/HIDENsityEdit/HIDENweb.htm</a>	State Climatology Office, Dept. of Soil, Water, and Climate, 439 Borlaug Hall, St. Paul, MN 55108 phone: 651-296-4214	Checked 4/14 AW 8/23/06 AR	BW1 PP1
<b>Butterflies</b>	<b>Monarch Larva Monitoring Program</b>	Volunteers throughout the US and Canada track monarch egg and larval abundance by monitoring local sites on a weekly basis throughout the summer	University of Minnesota <a href="http://www.mlmp.org">www.mlmp.org</a>	Karen Oberhauser, University of Minnesota, Department of FWCB, 1980 Folwell Ave., St. Paul, MN 55108 (612) 624-8706 oberh001@umn.edu	Checked 4/14 AW 8/23/06 AR	BW4 PP3
<b>Butterflies</b>	<b>Monarch Watch</b>	Volunteers throughout the US and Canada tag migrating monarch butterflies in the fall to determine migratory routes and timing, and assess population size.	University of Kansas <a href="http://www.monarchwatch.org">www.monarchwatch.org</a>	Orley "Chip" Taylor, University of Kansas Entomology, 1200 Sunnyside Avenue, Lawrence, KS 66045-7534, phone: (785) 864-4441 e-mail: chip@ku.edu	Checked 4/14 AW 8/23/06 AR	BW4 PP3

<b>Streams</b>	<b>Volunteer Stream Monitoring Partnership (VSMP)</b>	Metro Area program to support, strengthen, and expand volunteer stream monitoring efforts in the Twin Cities region. This program provides a cohesive network that increases the value of volunteers' work by promoting consistent methods, quality data, and a centralized data management system. A priority for VSMP is to ensure that data are used to improve decision-making and lead to community action.	University of Minnesota Water Resources Center 173 McNeal Hall, 1985 Buford  <a href="http://wrc.umn.edu/outreach/vsmp">http://wrc.umn.edu/outreach/vsmp</a>	Water Resources Center, 173 McNeal Hall, 1985 Buford Avenue, St. Paul, MN 55108 612-624-9282 or 7460 umwrc@umn.edu or <a href="mailto:liukk001@umn.edu">liukk001@umn.edu</a>	Checked 4/14 AW 8/23/06 AR	BW6 PP7
<b>Rivers</b>	<b>Adopt –A-River</b>	Minnesota volunteers to "adopt" a section of a lake, river, wetland or ravine to ensure its long-term health through annual cleanups. Volunteers choose their own site from shorelines that have not yet been adopted. The program supplies "how-to" assistance, free rubbish bags, gloves and recognition after a reporting of cleanup results. Information tracked includes pounds of rubbish collected, volunteer hours, and descriptions of the debris found.	Minnesota Department of Natural Resources <a href="http://www.dnr.state.mn.us/adoptrive/index.html">http://www.dnr.state.mn.us/adoptrive/index.html</a>	Paul Nordell Program Coordinator tel. (651) 259-5630 <a href="mailto:paul.nordell@dnr.state.mn.us">paul.nordell@dnr.state.mn.us</a>	Checked 8/23/06 AR	BW6 PP7
<b>Fishing Education</b>	<b>MinnAqua</b>	Teaching people about lake and stream ecology by teaching them to fish is the idea behind the MinnAqua program. MinnAqua is a statewide education program designed to teach angling recreation and stewardship as well as the ecology and conservation of aquatic habitats.	Minnesota Department of Natural Resources <a href="http://www.dnr.state.mn.us/minnaqua/index.html">http://www.dnr.state.mn.us/minnaqua/index.html</a>	Statewide Coordinator: Jenifer Matthees, Aquatic Education Coordinator, tel. (651) 259-5217	8/23/06 AR	BW 5,7 PP5,6,7
<b>Minnesota State Parks</b>	<b>Minnesota State Parks</b>	Park Partners is designed to encourage businesses, civic groups and individuals to volunteer their time to improve and maintain state parks, monuments, historic sites and trails.	Minnesota Department of Natural Resources <a href="http://www.dnr.state.mn.us/volunteering/stateparks/parkpartners.html">http://www.dnr.state.mn.us/volunteering/stateparks/parkpartners.html</a>	Pat Arndt at (651) 259-5578	8/23/06 AR	BW5 PP5

<b>River/ Water</b>	<b>Friends of Mississippi River</b>	Friends of the Mississippi River works to engage citizens in a variety of hands-on projects that promote the health of the Mississippi River:	Friends of the Mississippi River <a href="http://www.fmr.org/volunt.html">http://www.fmr.org/volunt.html</a>	Friends of the Mississippi River 360 N Robert Street Saint Paul MN 55101 651/222-2193 fax: 651/222-6005 <a href="mailto:info@fmr.org">info@fmr.org</a> 651/222-2193 or <a href="mailto:volunteer@fmr.org">volunteer@fmr.org</a>	8/23/06 AR	BW3,6 PP2,6,7
<b>Lakes</b>	<b>Shallow Lakes Waterfowl Study</b>	The DNR's Shallow Lakes Program and Wetland Wildlife & Populations Research Group are conducting a 10-year case-study project to monitor habitat quality and waterfowl use on 38 lakes statewide. Information from this study will aide in management of these lakes. We are seeking volunteers to assist with the water quality monitoring on these lakes.	Minnesota Department of Natural Resources <a href="http://www.dnr.state.mn.us/volunteering/statewide.html">http://www.dnr.state.mn.us/volunteering/statewide.html</a>	Ann Geisen, Wildlife Lake Specialist, Shallow Lakes Program, Brainerd, 218-833-8625 <a href="mailto:ann.geisen@dnr.state.mn.us">ann.geisen@dnr.state.mn.us</a>	8/23/06 AR	BW6 PP6
<b>River</b>	<b>Great River Greening</b>	Volunteers help Great River Greening with our spring and fall plantings and invasive species removal events, which are typically 3 hours long and held on Saturday mornings. But we also lead weekday and evening events. Our events have involved as few as a dozen volunteers and as many as 1,100!	Great River Greening <a href="http://www.greatrivergreening.org/volunteers.asp">http://www.greatrivergreening.org/volunteers.asp</a>	Great River Greening 35 West Water Street, Suite 201 St. apul, MN 55107 651-665-9500 Tessa Pinkstaff <a href="mailto:tpinkstaff@greatrivergreening.org">tpinkstaff@greatrivergreening.org</a>	8/23/06 AR	BW6 PP7