

CLASSIFICATION	AGENCY OF COLLECTION	DATA SET/ INFORMATION BASE	PURPOSE/ DESCRIPTION	GEOGRAPHICAL DOMAIN	TIME PERIOD	LAST UPDATED	ACCESS TO DATA/INFO (OR KEY CONTACT)
Protists	Environment Canada	Biodiversity Portrait of the St. Lawrence River	Consolidation of scientific information and data on the physical and biotic characteristics of the region from the past 3 years.	St. Lawrence River, Canada	2000-2003		http://www.gc.ec.gc.ca/faune/biodiv/en/table_contents.html
	EPA - GLNPO	Biological Open Water Surveillance Program of the Laurentian Great Lakes	Dominant phytoplankton species by biovolume (lakewide averages)	Lake Huron, Lake Ontario, Lake Michigan, Lake Erie, Lake Superior	1998 (spring and summer) Other Years May Be Avail.	N/A	http://www.epa.gov/glnpo/monitoring/plankton/zooannrpt98/REPORT.pdf
	EPA - GLNPO and SUNY at Brockport	Changes in Phytoplankton Size-Class Abundance and Species Composition	Phytoplankton and zooplankton collected at off-shore sites of Lake Michigan	Lake Michigan	1983-1992	N/A	http://jglr.org/1998/num3/24_3_637-657.pdf
	EPA - GLNPO and SUNY at Brockport	Epilimnetic Phytoplankton and Zooplankton Biomass and Species Composition (Lake Michigan)	Common phytoplankton species occurrence in Lake Michigan	Lake Michigan	1983-1992	N/A	http://www.epa.gov/glnpo/monitoring/plankton/mich83-92/index.html
	EPA - GLNPO and SUNY at Brockport	Epilimnetic Phytoplankton and Zooplankton Biomass and Species Composition (Lake Ontario)	Common phytoplankton species occurrence in Lake Ontario	Lake Ontario	1986-1992	N/A	http://www.epa.gov/glnpo/monitoring/plankton/ont86-92/index.html
	NOAA - GLERL	Temporal and Spatial Distributions of Microcystis blooms in Saginaw Bay and Lake Erie	Water samples were collected on Saginaw Bay during Microcystis bloom for ground truth in the development of a satellite derived Microcystis map product.	Saginaw Bay, Lake Huron	1999	N/A	George Leshkevich george.leshkevich@noaa.gov http://www.glerl.noaa.gov/res/Task_rpts/cmleshk03-3.html
	University of Montreal, Dept of Biology; Environment Canada	Periphyton in the St. Lawrence River: A 20-Year Overview	Comparison of common algal species at three sites in the St. Lawrence River	St. Lawrence River, Quebec, Canada	1973, 1982, 1994-1995	N/A	http://jglr.org/1998/num1/24_1_105-117.pdf
	US Dept of the Interior - Fish and Wildlife Service National Fisheries Research Center; University of Michigan - Center for Great Lakes and Aquatic Sciences	Periphyton Accumulation at Remote Reefs and Shoals in Lake Superior	Distribution of detritus and periphyton on the lakebed in east-central Lake Superior	East-Central Lake Superior	1985 (August)	N/A	http://jglr.org/1991/num3/17_3_412-418.pdf
	USGS - Great Lakes Science Center	Great Lakes Aquatic Gap Analysis Project	To evaluate the biological diversity of aquatic species and their habitats, and to identify gaps in the distribution and protection of these species and their habitats within the Great Lakes basin.	All Great Lakes	2003-future	continuous	http://www.glscc.usgs.gov/GLGAP.htm
	US Dept of the Interior - Fish and Wildlife Service	Algae studies	?	?	?	?	
	Environment Canada & U.S. EPA	SOLEC Indicator Database	The database was designed primarily to assist the SOLEC Indicator Group organize and sort the hundreds of indicators that were identified for the Great Lakes.	Great Lakes Region	1998 - ?	?	http://www.on.ec.gc.ca/solec/pdf/appendix5-v4.pdf
NOAA - Great Lakes Environmental Research Lab	Great Lakes Aquatic Nonindigenous Species Database Project	Presently, there are 162 aquatic nonindigenous species in the Great Lakes. However, there is no readily accessible on-line information database of these species. We believe such a database would be a useful addition to the Great Lakes on-line information resources, and, if constructed appropriately, would also serve as a useful scientific and community reference tool.	Great Lakes Region	2003-future	N/A	http://www.glerl.noaa.gov/res/Task_rpts/nsreid10-3.html	
Slime Molds							

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Protozoans	NOAA - GLERL	Tumor-like Anomalies in Lake Michigan Zooplankton	To get insight into possible consequences to zooplankton populations.	Lake Michigan	1999-2002	NA	Henry Vanderploeg henry.vanderploeg@noaa.gov http://www.glerl.noaa.gov/res/Task_reports/edv/vander09-2.html
	USGS - Great Lakes Science Center	Lake Erie Near Shore	Contains general ecological data, including larval & juvenile fish, benthic invertebrates, zooplankton, and limnological parameters using three different sampling designs.	Lake Erie	2000-2002	?	Scott Nelson scott_nelson@usgs.gov (734) 214-7243
	USGS - Great Lakes Science Center	Great Lakes Aquatic Gap Analysis Project	To evaluate the biological diversity of aquatic species and their habitats, and to identify gaps in the distribution and protection of these species and their habitats within the Great Lakes basin.	All Great Lakes	2003-future	continuous	http://www.glsr.usgs.gov/GLGAP.htm
	USGS - Great Lakes Science Center	Study of the Application of Limnetic Zooplankton as a Bioassessment Tool for Lakes of Sleeping Bear Dunes National Lakeshore	Zooplankton—animals suspended in water with limited locomotion—tend to be widely distributed geographically, fulfill many functional roles, have short generation times, and are subject to both top-down and bottom-up trophic influences in a lake ecosystem. All of these characteristics make them excellent candidates for use in lake monitoring and characterization. The lakes of Sleeping Bear Dunes National Lakeshore are popular recreation sites, and as such, they are vulnerable to anthropogenic impacts. In this study, we explored the usefulness of zooplankton as a monitoring tool for these inland lakes. Using biological indicators is a common practice; zooplankton have specifically been used in many ways to explore their usefulness in monitoring. In this study, both zooplankton and water chemistry were sampled to determine their interrelationships.	Sleeping Bear Dunes National Lakeshore	2002	2002	http://www.glsr.usgs.gov/new/Inland%20Lakes%20Zooplankton.pdf?whitman=&zooplankton+in+great+lakes
	Environment Canada & U.S. EPA	SOLEC Indicator Database	The database was designed primarily to assist the SOLEC Indicator Group organize and sort the hundreds of indicators that were identified for the Great Lakes.	Great Lakes Region	1998 - ?	?	http://www.on.ec.gc.ca/solec/pdf/appendix5-v4.pdf
	U.S. EPA - GLNPO	Results from the Great Lakes National Program Office's Biological Open Water Surveillance Program of the Laurentian Great Lakes 1998	This monitoring is intended to fulfill the provisions of the Great Lakes Water Quality Agreement calling for periodic monitoring of the lakes to: 1) assess compliance with jurisdictional control requirements; 2) provide information on non-achievement of agreed upon water quality objectives; 3) evaluate water quality trends over time; and 4) identify emerging problems in the Great Lakes Basin Ecosystem.	All Great Lakes	1938-1998	2000	http://www.epa.gov/glnpo/monitoring/plankton/zooannrpt98/REPORT.pdf
	EPA - GLNPO	Biological Open Water Surveillance Program of the Laurentian Great Lakes	Dominant zooplankton species by biovolume (lakewide averages)	Lake Huron, Lake Ontario, Lake Michigan, Lake Erie, Lake Superior	1998 (spring and summer)	N/A	http://www.epa.gov/glnpo/monitoring/plankton/zooannrpt98/REPORT.pdf
	NOAA - GLERL	Research Monitoring of the Lake Michigan Ecosystem Research	Archived zooplankton samples. A summary of temporal changes in biological and environmental variables.	Southern Lake Michigan basin	1984-2002	2002	Stephen Lozano steve.lozano@noaa.gov http://www.glerl.noaa.gov/res/Task_reports/cmlozano13-1.html

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P r o t i s t s	Protozoans	EPA - GLNPO and SUNY at Brockport	Epilimnetic Phytoplankton and Zooplankton Biomass and Species Composition (Lake Michigan)	Common phytoplankton species occurrence in Lake Michigan	Lake Michigan	1983-1992	N/A	http://www.epa.gov/glnpo/monitoring/plankton/mich83-92/index.html
		EPA - GLNPO and SUNY at Brockport	Epilimnetic Phytoplankton and Zooplankton Biomass and Species Composition (Lake Ontario)	Common phytoplankton species occurrence in Lake Ontario	Lake Ontario	1986-1992	N/A	http://www.epa.gov/glnpo/monitoring/plankton/ont86-92/index.html
		NOAA - GLERL	Effects of the Zebra Mussel (<i>Dreissena polymorpha</i> Pallas) on Protozoa and Phytoplankton from Saginaw Bay, Lake Huron	Studied direct effects of the grazing activities of the zebra mussel on the natural assemblage of planktonic protozoa and algae from Saginaw Bay, Lake Huron.	Saginaw Bay, Lake Huron	1994-1995	N/A	Peter Lavrentyev http://sgnis.org/publicat/papers/proto.pdf
F u n g i	Mushrooms	Field Museum	Singer Index Database	The index and a bibliography of Singer's 440 mycology publications are presented as a searchable database.	Great Lakes states and beyond	1935-1997	N/A	Quixin Wu qwu@fmnh.org Gregory Mueller gmueller@fmnh.org http://fm1.fieldmuseum.org/collectio ns/search.cgi?dest=singer
		Conservation organizations, federal government, international agencies, and private sector partners (http://www.natureserve.org/aboutUs/partners.jsp)	NatureServe website	Provides scientific information about species and terrestrial ecosystems. Includes description, distribution, status, and trend information on most native and introduced plant and animal species. Also includes classification and descriptions for upland and wetland ecosystems as well vegetation types included in the U.S. National Vegetation Classification. Contains links to methods documentation used by Natural Heritage programs. Specific contacts at NatureServe may provide access to multi-jurisdictional data on locations of rare species throughout the United States. Up to date occurrence data for species, as well as mapped locations of ecosystem, community, and natural areas are available through individual Natural Heritage programs in ON, MN, WI, IL, IN, MI, OH, PA, and NY.	International, National, and State Information	1974-2003	continuous	http://www.natureserve.org/getData/index.jsp
	Molds							
	Yeasts							

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Fungi	Environment Canada	Biodiversity Portrait of the St. Lawrence River	Consolidation of scientific information and data on the physical and biotic characteristics of the region from the past 3 years.	St. Lawrence River, Canada	2000-2003		http://www.qc.ec.gc.ca/faune/biodiv/en/table_contents.html
	USDA Forest Service	Fire Effects Information System	This database contains synoptic descriptions, taken from current English-language literature of almost 900 plant species, about 100 animal species, and 16 Kuchler plant communities found on the North American continent. The emphasis of each synopsis is fire and how it affects each species. Background information on taxonomy, distribution, basic biology and ecology of each species is also included.	USA	? - Present	Constantly Updated	http://www.fs.fed.us/database/feis/index.html
	Ontario MNR - Science and Information Branch (The Nature Conservancy of Canada, The Natural Heritage League, and The Nature Conservancy)	Natural Heritage Information Center - Element (Species) Database	Element of Biodiversity is the term coined by NatureServe used to refer to a species, subspecies, vegetation community, or special feature of the landscape. An Element Occurrence is defined as a location in the province where an Element has existed on a permanent or regular basis. What constitutes an occurrence depends on the element. For example, a bird occurrence is usually defined as a breeding area or migration staging area, but not a single sighting by a bird-watcher. A plant or vegetation community occurrence is usually any place where it occurs naturally.	Ontario	1983 -2003	Mar-03	http://www.mnr.gov.on.ca/MNR/nhic/
	Conservation organizations, federal government, international agencies, and private sector partners (http://www.natureserve.org/aboutUs/partners.jsp)	NatureServe website	Provides scientific information about species and terrestrial ecosystems. Includes description, distribution, status, and trend information on most native and introduced plant and animal species. Also includes classification and descriptions for upland and wetland ecosystems as well vegetation types included in the U.S. National Vegetation Classification. Contains links to methods documentation used by Natural Heritage programs. Specific contacts at NatureServe may provide access to multi-jurisdictional data on locations of rare species throughout the United States. Up to date occurrence data for species, as well as mapped locations of ecosystem, community, and natural areas are available through individual Natural Heritage programs in ON, MN, WI, IL, IN, MI, OH, PA, and NY.	International, National, and State Information	1974-2003	continuous	http://www.natureserve.org/getData/index.jsp
Plants	USDA - NRCS	PLANTS Database	Provides standardized information about the vascular plants, mosses, liverworts, hornworts, and lichens of the U.S. and its territories.	National, State, County Data	N/A	Constantly Updated	http://plants.usda.gov/index.html
	Federal, state, international, non-government, academic, and private industry partners (http://www.nbi.gov/about/partner/)	National Biological Information Infrastructure	Data, references, and research on a wide variety of biological disciplines.	National and International	? - Present	Constantly Updated	http://www.nbi.gov/disciplines/index.html

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P l a n t s	Mosses	Ontario MNR - Science and Information Branch (The Nature Conservancy of Canada, The Natural Heritage League, and The Nature Conservancy)	Natural Heritage Information Center - Element (Species) Database	Element of Biodiversity is the term coined by NatureServe used to refer to a species, subspecies, vegetation community, or special feature of the landscape. An Element Occurrence is defined as a location in the province where an Element has existed on a permanent or regular basis. What constitutes an occurrence depends on the element. For example, a bird occurrence is usually defined as a breeding area or migration staging area, but not a single sighting by a bird-watcher. A plant or vegetation community occurrence is usually any place where it occurs naturally.	Ontario	1983 -2003	Mar-03 http://www.mnr.gov.on.ca/MNR/nhic/
		Environment Canada	Biodiversity Portrait of the St. Lawrence River	Consolidation of scientific information and data on the physical and biotic characteristics of the region from the past 3 years.	St. Lawrence River, Canada	2000-2003	http://www.gc.ec.gc.ca/faune/biodiv/en/table_contents.html
		Conservation organizations, federal government, international agencies, and private sector partners (http://www.natureserve.org/aboutUs/partners.jsp)	NatureServe website	Provides scientific information about species and terrestrial ecosystems. Includes description, distribution, status, and trend information on most native and introduced plant and animal species. Also includes classification and descriptions for upland and wetland ecosystems as well vegetation types included in the U.S. National Vegetation Classification. Contains links to methods documentation used by Natural Heritage programs. Specific contacts at NatureServe may provide access to multi-jurisdictional data on locations of rare species throughout the United States. Up to date occurrence data for species, as well as mapped locations of ecosystem, community, and natural areas are available through individual Natural Heritage programs in ON, MN, WI, IL, IN, MI, OH, PA, and NY.	International, National, and State Information	1974-2003	continuous http://www.natureserve.org/getData/index.jsp
		Environment Canada & U.S. EPA	SOLEC Indicator Database	The database was designed primarily to assist the SOLEC Indicator Group organize and sort the hundreds of indicators that were identified for the Great Lakes.	Great Lakes Region	1998 - ?	? http://www.on.ec.gc.ca/solec/pdf/appendix5-v4.pdf
		USDA Forest Service	Fire Effects Information System	This database contains synoptic descriptions, taken from current English-language literature of almost 900 plant species, about 100 animal species, and 16 Kuchler plant communities found on the North American continent. The emphasis of each synopsis is fire and how it affects each species. Background information on taxonomy, distribution, basic biology and ecology of each species is also included.	USA	? - Present	Constantly Updated http://www.fs.fed.us/database/feis/index.html

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P l a n t s	Ferns	Conservation organizations, federal government, international agencies, and private sector partners (http://www.natureserve.org/aboutUs/partners.jsp)	NatureServe website	Provides scientific information about species and terrestrial ecosystems. Includes description, distribution, status, and trend information on most native and introduced plant and animal species. Also includes classification and descriptions for upland and wetland ecosystems as well vegetation types included in the U.S. National Vegetation Classification. Contains links to methods documentation used by Natural Heritage programs. Specific contacts at NatureServe may provide access to multi-jurisdictional data on locations of rare species throughout the United States. Up to date occurrence data for species, as well as mapped locations of ecosystem, community, and natural areas are available through individual Natural Heritage programs in ON, MN, WI, IL, IN, MI, OH, PA, and NY.	International, National, and State Information	1974-2003	continuous	http://www.natureserve.org/getData/index.jsp
		Environment Canada & U.S. EPA	SOLEC Indicator Database	The database was designed primarily to assist the SOLEC Indicator Group organize and sort the hundreds of indicators that were identified for the Great Lakes.	Great Lakes Region	1998 - ?	?	http://www.on.ec.gc.ca/solec/pdf/appendix5-v4.pdf
		National Museum of Natural Sciences	Atlas of the Rare Vascular Plants of Ontario	?	Ontario	? - 1987	N/A	Sharon Dobush sharon.dobush@mnr.gov.on.ca 705-825-3415
	Conifers	USDA - NRCS	PLANTS Database	Provides standardized information about the vascular plants, mosses, liverworts, hornworts, and lichens of the U.S. and its territories.	National, State, County Data	N/A	Constantly Updated	http://plants.usda.gov/index.html
		Federal, state, international, non-government, academic, and private industry partners (http://www.nbio.gov/about/partner/)	National Biological Information Infrastructure	Data, references, and research on a wide variety of biological disciplines.	National and International	? - Present	Constantly Updated	http://www.nbio.gov/disciplines/index.html
		Ontario MNR - Science and Information Branch (The Nature Conservancy of Canada, The Natural Heritage League, and The Nature Conservancy)	Natural Heritage Information Center - Element (Species) Database	Element of Biodiversity is the term coined by NatureServe used to refer to a species, subspecies, vegetation community, or special feature of the landscape. An Element Occurrence is defined as a location in the province where an Element has existed on a permanent or regular basis. What constitutes an occurrence depends on the element. For example, a bird occurrence is usually defined as a breeding area or migration staging area, but not a single sighting by a bird-watcher. A plant or vegetation community occurrence is usually any place where it occurs naturally.	Ontario	1983-2003	Mar-03	http://www.mnr.gov.on.ca/MNR/nhic/
		Environment Canada	Biodiversity Portrait of the St. Lawrence River	Consolidation of scientific information and data on the physical and biotic characteristics of the region from the past 3 years.	St. Lawrence River, Canada	2000-2003		http://www.qc.ec.gc.ca/faune/biodiv/en/table_contents.html

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P l a n t s	Conifers	Conservation organizations, federal government, international agencies, and private sector partners (http://www.natureserve.org/aboutUs/partners.jsp)	NatureServe website	Provides scientific information about species and terrestrial ecosystems. Includes description, distribution, status, and trend information on most native and introduced plant and animal species. Also includes classification and descriptions for upland and wetland ecosystems as well vegetation types included in the U.S. National Vegetation Classification. Contains links to methods documentation used by Natural Heritage programs. Specific contacts at NatureServe may provide access to multi-jurisdictional data on locations of rare species throughout the United States. Up to date occurrence data for species, as well as mapped locations of ecosystem, community, and natural areas are available through individual Natural Heritage programs in ON, MN, WI, IL, IN, MI, OH, PA, and NY.	International, National, and State Information	1974-2003	continuous	http://www.natureserve.org/getData/index.jsp
		Environment Canada & U.S. EPA	SOLEC Indicator Database	The database was designed primarily to assist the SOLEC Indicator Group organize and sort the hundreds of indicators that were identified for the Great Lakes.	Great Lakes Region	1998 - ?	?	http://www.on.ec.gc.ca/solec/pdf/appendix5-v4.pdf
		National Museum of Natural Sciences	Atlas of the Rare Vascular Plants of Ontario	?	Ontario	? - 1987	N/A	Sharon Dobush sharon.dobush@mnr.gov.on.ca 705-825-3415
		USDA Forest Service	Fire Effects Information System	This database contains synoptic descriptions, taken from current English-language literature of almost 900 plant species, about 100 animal species, and 16 Kuchler plant communities found on the North American continent. The emphasis of each synopsis is fire and how it affects each species. Background information on taxonomy, distribution, basic biology and ecology of each species is also included.	USA	? - Present	Constantly Updated	http://www.fs.fed.us/database/feis/index.html

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P l a n t s F l o w e r i n g P l a n t s	USDA - NRCS	PLANTS Database	Provides standardized information about the vascular plants, mosses, liverworts, hornworts, and lichens of the U.S. and its territories.	National, State, County Data	N/A	Constantly Updated	http://plants.usda.gov/index.html
	Federal, state, international, non-government, academic, and private industry partners (http://www.nbi.gov/about/partner/)	National Biological Information Infrastructure	Data, references, and research on a wide variety of biological disciplines.	National and International	? - Present	Constantly Updated	http://www.nbi.gov/disciplines/index.html
	Ontario MNR - Science and Information Branch (The Nature Conservancy of Canada, The Natural Heritage League, and The Nature Conservancy)	Natural Heritage Information Center - Element (Species) Database	Element of Biodiversity is the term coined by NatureServe used to refer to a species, subspecies, vegetation community, or special feature of the landscape. An Element Occurrence is defined as a location in the province where an Element has existed on a permanent or regular basis. What constitutes an occurrence depends on the element. For example, a bird occurrence is usually defined as a breeding area or migration staging area, but not a single sighting by a bird-watcher. A plant or vegetation community occurrence is usually any place where it occurs naturally.	Ontario	1983 -2003	Mar-03	http://www.mnr.gov.on.ca/MNR/nhic/
	Environment Canada	Biodiversity Portrait of the St. Lawrence River	Consolidation of scientific information and data on the physical and biotic characteristics of the region from the past 3 years.	St. Lawrence River, Canada	2000-2003		http://www.qc.ec.gc.ca/faune/biodiv/en/table_contents.html
	Canadian Endangered Species Conservation Council	Wild Species 2000 Report	Overview of the status of Canada's species, bringing together the results of Provincial, Territorial, and Federal monitoring efforts	Canada	To be released every 5 years	2000	http://www.wildspecies.ca/en/HomeE.html
	Bird Studies Canada	Changes in Distribution and Abundance of Submerged Macrophytes	Percent occurrence of several plant species in the diets of six species of diving ducks	Inner Bay at Long Point Bay, Ontario (Lake Erie)	1992-1994	N/A	http://jglr.org/1999/num4/25_4_783-798.pdf
	MSU, Dept of Fisheries and Wildlife	Increased Abundance and Depth of Submersed Macrophytes in Response to Decreased Turbidity	Submersed macrophyte communities and turbidity (near-shore) in Saginaw Bay	Saginaw Bay, Lake Huron	1991-1993	N/A	http://jglr.org/1995/num4/21_4_476-488.pdf
	SUNY Brockport, Dept of Biological Sciences	Occurrence of Macrophytes in the Near Shore Waters	Macrophyte biomass at selected sites. Summer turbidity levels.	Lake Ontario	1986 (June to October)	N/A	http://jglr.org/1988/num4/14_4_405-410.pdf
USDA Forest Service	Fire Effects Information System	This database contains synoptic descriptions, taken from current English-language literature of almost 900 plant species, about 100 animal species, and 16 Kuchler plant communities found on the North American continent. The emphasis of each synopsis is fire and how it affects each species. Background information on taxonomy, distribution, basic biology and ecology of each species is also included.	USA	? - Present	Constantly Updated	http://www.fs.fed.us/database/feis/index.html	

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P l a n t s Flowering Plants	Conservation organizations, federal government, international agencies, and private sector partners (http://www.natureserve.org/aboutUs/partners.jsp)	NatureServe website	Provides scientific information about species and terrestrial ecosystems. Includes description, distribution, status, and trend information on most native and introduced plant and animal species. Also includes classification and descriptions for upland and wetland ecosystems as well vegetation types included in the U.S. National Vegetation Classification. Contains links to methods documentation used by Natural Heritage programs. Specific contacts at NatureServe may provide access to multi-jurisdictional data on locations of rare species throughout the United States. Up to date occurrence data for species, as well as mapped locations of ecosystem, community, and natural areas are available through individual Natural Heritage programs in ON, MN, WI, IL, IN, MI, OH, PA, and NY.	International, National, and State Information	1974-2003	continuous	http://www.natureserve.org/getData/index.jsp
	USGS - Great Lakes Science Center	Card Image Data	Various collections of benthic invertebrates, Hexagenia, macrophytes, etc.	All Great Lakes	1960s - 1980s?		Scott Nelson scott_nelson@usgs.gov (734) 214-7243
	USGS - Great Lakes Science Center	Great Lakes Aquatic Gap Analysis Project	To evaluate the biological diversity of aquatic species and their habitats, and to identify gaps in the distribution and protection of these species and their habitats within the Great Lakes basin.	All Great Lakes	2003-future	continuous	http://www.glsc.usgs.gov/GLGAP.htm
	USGS-UMESC	Long Term Resource Monitoring Program	The mission of the Long Term Resource Monitoring Program is to provide decision makers with the information needed to maintain the Upper Mississippi River System as a viable multiple-use large river ecosystem. The long-term goals of the Program are to understand the system, determine resource trends and impacts, develop management alternatives, manage information, and develop useful products.	The Five Upper Mississippi River System states (Illinois, Iowa, Minnesota, Missouri, and Wisconsin).	1987-present	annually	http://www.umesc.usgs.gov/ltrmp.html
	NOAA - Great Lakes Environmental Research Lab	Great Lakes Aquatic Nonindigenous Species Database Project	Presently, there are 162 aquatic nonindigenous species in the Great Lakes. However, there is no readily accessible on-line information database of these species. We believe such a database would be a useful addition to the Great Lakes on-line information resources, and, if constructed appropriately, would also serve as a useful scientific and community reference tool.	Great Lakes Region	2003-future	N/A	http://www.glerl.noaa.gov/res/Task_reports/nsreid10-3.html
	Great Lakes Indian Fish & Wildlife Commission	Exotic Plant Information CENTER	This page has been established to raise awareness of several invasive non-native plants and their ecological impacts in the upper Great Lakes region. We hope to provide effective tools for your educational, management, and research needs.	Michigan, Wisconsin, Minnesota	1989-present	N/A	http://www.glifwc.org/epicenter/
	Environment Canada & U.S. EPA	SOLEC Indicator Database	The database was designed primarily to assist the SOLEC Indicator Group organize and sort the hundreds of indicators that were identified for the Great Lakes.	Great Lakes Region	1998 - ?	?	http://www.on.ec.gc.ca/solec/pdf/appendix5-v4.pdf

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P l a n t s	Flowering Plants	National Museums of Canada	The Arctic-Alpine Element of the Flora at Lake Superior	?	Lake Superior	? - 1981	N/A	Gwenyth Foley gwenyth.foley@mnr.gov.on.ca 807-877-5113
		National Museum of Natural Sciences	Atlas of the Rare Vascular Plants of Ontario	?	Ontario	? - 1987	N/A	Sharon Dobush sharon.dobush@mnr.gov.on.ca 705-825-3415
A n i m a l s	Invertebrates	Ontario MNR - Science and Information Branch (The Nature Conservancy of Canada, The Natural Heritage League, and The Nature Conservancy)	Natural Heritage Information Center - Element (Species) Database	Element of Biodiversity is the term coined by NatureServe used to refer to a species, subspecies, vegetation community, or special feature of the landscape. An Element Occurrence is defined as a location in the province where an Element has existed on a permanent or regular basis. What constitutes an occurrence depends on the element. For example, a bird occurrence is usually defined as a breeding area or migration staging area, but not a single sighting by a bird-watcher. A plant or vegetation community occurrence is usually any place where it occurs naturally.	Ontario	1983 -2003	Mar-03	http://www.mnr.gov.on.ca/MNR/nhic/
		Environment Canada	Biodiversity Portrait of the St. Lawrence River	Consolidation of scientific information and data on the physical and biotic characteristics of the region from the past 3 years. Fishery assessment based on the number of scallop drag tows . Observations made by Fisheries and Oceans Canada	St. Lawrence River, Canada	1991-1997		http://www.qc.ec.gc.ca/faune/biodiv/en/table_contents.html
		Water Systems Analysts; University of Western Ontario - Dept of Biology; Ontario Ministry of Environment & Energy	Factors Influencing Changes in Nearshore Benthic Community	Nearshore benthic communities surveyed at 5 and 20 m, on the Canadian side of Lake Ontario	Canadian side of Lake Ontario	1981, 1991	N/A	http://jglr.org/2000/num3/26_3_272-286.pdf

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A n i m a l s I n v e r t e b r a t e s	NOAA - GLERL	Long-Term Trends in Benthic Populations	Continuing project that monitors trends in benthic macroinvertebrate populations in southern Lake Michigan. Samples collected at 40 sites in the southern basin.	Southern Lake Michigan basin	1980-1981, 1986-1987, 1992-1993, 1998-1999, 2000, 2002?	2002?	Tom Nelepa thomas.nalepa@noaa.gov http://www.glerl.noaa.gov/res/Task_reports/cmnalepa13-2.html
	MSU, Dept of Fisheries and Wildlife	Increased Abundance and Depth of Submersed Macrophytes in Response to Decreased Turbidity	Submersed macrophyte communities and turbidity (near-shore) in Saginaw Bay	Saginaw Bay, Lake Huron	1991-1993	N/A	http://jglr.org/1995/num4/21_4_476-488.pdf
	Canadian Endangered Species Conservation Council	Wild Species 2000 Report	Overview of the status of Canada's species, bringing together the results of Provincial, Territorial, and Federal monitoring efforts	Canada	to be released every 5 years	2000	http://www.wildspecies.ca/en/Home_E.html
	NOAA - GLERL	Effects of the Zebra Mussel (<i>Dreissena polymorpha</i> Pallas) on Protozoa and Phytoplankton from Saginaw Bay, Lake Huron	Studied direct effects of the grazing activities of the zebra mussel on the natural assemblage of planktonic protozoa and algae from Saginaw Bay, Lake Huron.	Saginaw Bay, Lake Huron	1994-1995	N/A	Peter Lavrentyev http://sgnis.org/publicat/papers/proto.pdf
	USGS-UMESC	Long Term Resource Monitoring Program	The mission of the Long Term Resource Monitoring Program is to provide decision makers with the information needed to maintain the Upper Mississippi River System as a viable multiple-use large river ecosystem. The long-term goals of the Program are to understand the system, determine resource trends and impacts, develop management alternatives, manage information, and develop useful products.	The Five Upper Mississippi River System states (Illinois, Iowa, Minnesota, Missouri, and Wisconsin).	1987-present	annually	http://www.umesc.usgs.gov/ltrmp.html
	Conservation organizations, federal government, international agencies, and private sector partners (http://www.natureserve.org/aboutUs/partners.jsp)	NatureServe website	Provides scientific information about species and terrestrial ecosystems. Includes description, distribution, status, and trend information on most native and introduced plant and animal species. Also includes classification and descriptions for upland and wetland ecosystems as well as vegetation types included in the U.S. National Vegetation Classification. Contains links to methods documentation used by Natural Heritage programs. Specific contacts at NatureServe may provide access to multi-jurisdictional data on locations of rare species throughout the United States. Up to date occurrence data for species, as well as mapped locations of ecosystem, community, and natural areas are available through individual Natural Heritage programs in ON, MN, WI, IL, IN, MI, OH, PA, and NY.	International, National, and State Information	1974-2003	continuous	http://www.natureserve.org/getData/index.jsp
	USGS - Great Lakes Science Center	Lake Erie Environmental Investigations	Contains data from a study done on Lake Erie tributaries demonstrating the linkage between sediment contaminants and fish health, fish communities and invertebrate communities.	Lake Erie	1980s - 1990s?		Scott Nelson scott_nelson@usgs.gov (734) 214-7243
	USGS - Great Lakes Science Center	Lake Erie Near Shore	Contains general ecological data, including larval & juvenile fish, benthic invertebrates, zooplankton, and limnological parameters using three different sampling designs.	Lake Erie	2000-2002	?	Scott Nelson scott_nelson@usgs.gov (734) 214-7243

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Animals Invertebrates	USGS - Great Lakes Science Center	Card Image Data	Various collections of benthic invertebrates, Hexagenia, macrophytes, etc.	All Great Lakes	1960s - 1980s?		Scott Nelson scott_nelson@usgs.gov (734) 214-7243
	USGS - Great Lakes Science Center	Great Lakes Aquatic Gap Analysis Project	To evaluate the biological diversity of aquatic species and their habitats, and to identify gaps in the distribution and protection of these species and their habitats within the Great Lakes basin.	All Great Lakes	2003-future	continuous	http://www.glsc.usgs.gov/GLGAP.htm
	USGS - Center for Aquatic Resource Studies	Nonindigenous Aquatic Species	Provided are scientific reports, online/realtime queries, spatial data sets, regional contact lists, and general information. The data is made available for use by biologists, interagency groups, and the general public.	USA	N/A	N/A	http://nas.er.usgs.gov
	NOAA - Great Lakes Environmental Research Lab	Great Lakes Aquatic Nonindigenous Species Database Project	Presently, there are 162 aquatic nonindigenous species in the Great Lakes. However, there is no readily accessible on-line information database of these species. We believe such a database would be a useful addition to the Great Lakes on-line information resources, and, if constructed appropriately, would also serve as a useful scientific and community reference tool.	Great Lakes Region	2003-future	N/A	http://www.glerl.noaa.gov/res/Task_reports/nsreid10-3.html
	USGS - Great Lakes Science Center	Burrowing Mayflies (Hexagenia) as Indicators of Ecosystem Health	They choose to study the burrowing mayfly, Hexagenia, as an indicator species because it was historically abundant in Great Lakes mesotrophic (moderately nutrient enriched) waters, it is intolerant of polluted water, which caused their extirpation from those environments in the 1940-50's, it has recovered in one of those previously polluted environments after significant pollution reduction, it is ecologically important as a trophic indicator, linking detrital (bottom litter) energy resources directly to the many fish species that feed on Hexagenia and the highly visible mating swarms that tell the informed public that the water body is healthy.	Great Lakes Region	?	?	http://www.glsc.usgs.gov/newinfo/burrowing_mayflies.htm
	University of Michigan - Museum of Zoology	Michigan Odonata Survey	The purpose of the MOS is to encourage the study of Odonata; document the species that occur in Michigan; obtain better data on the abundance and distribution of federal and state-listed species; define the flight periods and ranges for the species that are found in the state; record pertinent information on locality, habitat, phenology, and ecology in a database for use in publications devoted to the Odonata fauna of the state of Michigan; and to produce an atlas of Michigan Odonata for use by scientists and amateurs alike.	Great Lakes Region	1996-present	continuous	http://insects.umz.lsa.umich.edu/MICHODO/mos.html

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A n i m a l s	Invertebrates	Environment Canada & U.S. EPA	SOLEC Indicator Database	The database was designed primarily to assist the SOLEC Indicator Group organize and sort the hundreds of indicators that were identified for the Great Lakes.	Great Lakes Region	1998 - ?	?	http://www.on.ec.gc.ca/solec/pdf/appendix5-v4.pdf
		U.S. EPA - GLNPO	Benthic Invertebrate Biomonitoring	Benthic invertebrates are longer lived than most planktonic organisms, and thus can integrate the effects of environmental conditions over longer periods of time. Additionally, they are relatively sedentary and are therefore easier to sample than nektonic organisms, such as fish. Many benthic invertebrates are detritivores, feeding on organic material produced in the pelagic zone. These organisms are often important components of fish diets, and thus provide an important link between pelagic production and higher trophic levels.	All Great Lakes	1997-present	N/A	http://www.epa.gov/glnpo/monitoring/indicators/benthic97/paper.htm
		Ohio Sea Grant	New Research Suggests Zebra Mussels have Minor Effect on Lake Erie's Microbenthic Community	The microbenthic community, composed of non-harmful bacteria and benthic fungi, is one of the least studied communities of the Great Lakes. These organisms, many of which reach 10 to 100 million cells per gram of sediment, are responsible for many of the lake's key ecosystem functions. Significant components of the phosphorus, nitrogen, and carbon biogeochemical cycles, for example, are all performed by these organisms.	Lake Erie	2000	N/A	Robert Heath rheath@kent.edu Jill Jentes jentes.1@osu.edu http://www.sg.ohio-state.edu/publications/releases/Aug-4-00.html
	Fish	Federal, state, international, non-government, academic, and private industry partners (http://www.nbii.gov/about/partner/)	National Biological Information Infrastructure	Data, references, and research on a wide variety of biological disciplines.	National and International	? - Present	Constantly Updated	http://www.nbii.gov/disciplines/index.html
		NOAA - GLERL; University of Michigan; University of Wisconsin - Milwaukee	Modeling the Influence of Lake Circulation Patterns, Upwelling Events, and Turbulence on Fish Recruitment Variability	A model-based approach used to evaluate the relative effects of lake physics and trophodynamics for understanding fish recruitment in Lake Michigan.	Lake Michigan	Using data from 1998 (Spring and Summer)	In Progress	Dmitry Beletsky dima.beletsky@noaa.gov http://www.glerl.noaa.gov/res/Task_reports/beletsky02-1.html
		NOAA - GLERL	Changes in the Pelagic Food Web of Southern Lake Michigan	Document expected long-term and recent changes in the pelagic food web. Building on GLERL pelagic monitoring program (1994-1998).	Southern Lake Michigan basin	1994-2002	2002?	Henry Vanderploeg henry.vanderploeg@noaa.gov http://www.glerl.noaa.gov/res/Task_reports/nsvander10-2.html
		Environment Canada	Great Lakes Environmental Sensitivity Atlas and Database	Provides initial information regarding fish spawning and fish migration.	U.S. and Canada Great Lakes shorelines	1991-1994		http://www.on.ec.gc.ca/emergency/enviro-sensitivity-atlas/intro-e.html
		Environment Canada	Biodiversity Portrait of the St. Lawrence River	Consolidation of scientific information and data on the physical and biotic characteristics of the region from the past 3 years.	St. Lawrence River, Canada	2000-2003		http://www.gc.ec.gc.ca/faune/biodiv/en/table_contents.html
		MDNR	Selected species and habitat information	Provides links to scientific information about species and ecosystems	Michigan	N/A	N/A	http://www.michigan.gov/dnr/0,1607,7-153-10370_12145---00.html
		Michigan DEQ	Cooperative Lakes Monitoring Program	Volunteer eutrophication monitoring of Michigan's inland lakes and streams. Parameters include nitrogen and phosphorus, chlorophyll, sedimentation rates, transparency, dissolved oxygen, fish samples, and water temperature	Michigan inland lakes and streams	1974-present	2002	http://www.mi-water-cmp.org/cooperative_lakes_monitoring_pro1.htm

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A n i m a l s	Fish	Conservation organizations, federal government, international agencies, and private sector partners (http://www.natureserve.org/aboutUs/partners.jsp)	NatureServe website	Provides scientific information about species and terrestrial ecosystems. Includes description, distribution, status, and trend information on most native and introduced plant and animal species. Also includes classification and descriptions for upland and wetland ecosystems as well vegetation types included in the U.S. National Vegetation Classification. Contains links to methods documentation used by Natural Heritage programs. Specific contacts at NatureServe may provide access to multi-jurisdictional data on locations of rare species throughout the United States. Up to date occurrence data for species, as well as mapped locations of ecosystem, community, and natural areas are available through individual Natural Heritage programs in ON, MN, WI, IL, IN, MI, OH, PA, and NY.	International, National, and State Information	1974-2003	continuous	http://www.natureserve.org/getData/index.jsp
		NOAA - Fisheries	Commercial Catch (COMCAT)	Daily fishing records for US waters of the Great Lakes.	USA	1971-present	continuous	http://www.st.nmfs.gov/st1/commercial/
		USGS - Great Lakes Science Center	Research Vessel Catch (RVCAT)	Contains trawl and gillnet data including total catch, length frequency, individual fish (length, weight, sex, age, prey, etc.)	All Great Lakes	1954-present	continuous	Scott Nelson scott_nelson@usgs.gov (734) 214-7243
		USGS - Great Lakes Science Center (with the help of OMNR, MDEQ, FWS and CORA)	Coded Wire Tag	Contains the history of captured coded wire tag lake trout.	Lake Huron	?	?	Scott Nelson scott_nelson@usgs.gov (734) 214-7243
		USGS - Great Lakes Science Center	Lake Erie Environmental Investigations	Contains data from a study done on Lake Erie tributaries demonstrating the linkage between sediment contaminants and fish health, fish communities and invertebrate communities.	Lake Erie	1980s - 1990s?		Scott Nelson scott_nelson@usgs.gov (734) 214-7243
		USGS - Great Lakes Science Center	Lake Erie Near Shore	Contains general ecological data, including larval & juvenile fish, benthic invertebrates, zooplankton, and limnological parameters using three different sampling designs.	Lake Erie	2000-2002	?	Scott Nelson scott_nelson@usgs.gov (734) 214-7243
		USGS - Great Lakes Science Center	Contaminant Chemistry	Contains fish tissue archive and organic pesticide and PCB results since the early '70s. Also contains some contaminant sediment data.	All Great Lakes	1970s - Present	?	Scott Nelson scott_nelson@usgs.gov (734) 214-7243
		USGS - Great Lakes Science Center	Interagency Cisco Database	Small mesh gillnet captures of Cisco (chubs) from Lake Superior, contributed by MN DNR, WI DNR, MI DNR, Kewanaw Bay & Redcliff tribes & CORA)	All Great Lakes	?	?	Scott Nelson scott_nelson@usgs.gov (734) 214-7243
		USGS - Great Lakes Science Center	Interagency Predator Prey Database	Lake Superior returns of several predator species contributed by all agencies in Cisco database plus OMNR	Lake Superior	?	?	Scott Nelson scott_nelson@usgs.gov (734) 214-7243
USGS - Great Lakes Science Center	Great Lakes Aquatic Gap Analysis Project	To evaluate the biological diversity of aquatic species and their habitats, and to identify gaps in the distribution and protection of these species and their habitats within the Great Lakes basin.	All Great Lakes	2003-future	continuous	http://www.glsc.usgs.gov/GLGAP.html		

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A n i m a l s Fish	USGS - Center for Aquatic Resource Studies	Nonindigenous Aquatic Species	Provided are scientific reports, online/realtime queries, spatial data sets, regional contact lists, and general information. The data is made available for use by biologists, interagency groups, and the general public.	USA	N/A	N/A	http://nas.er.usgs.gov
	NOAA - Great Lakes Environmental Research Lab	Great Lakes Aquatic Nonindigenous Species Database Project	Presently, there are 162 aquatic nonindigenous species in the Great Lakes. However, there is no readily accessible on-line information database of these species. We believe such a database would be a useful addition to the Great Lakes on-line information resources, and, if constructed appropriately, would also serve as a useful scientific and community reference tool.	Great Lakes Region	2003-future	N/A	http://www.glerl.noaa.gov/res/Task_reports/nsreid10-3.html
	Great Lakes Sport Fishing Council	Exotic Species and their effects on the Great Lakes	A series of informational links to help anglers learn more about the invasion of these unwanted exotics.	All Great Lakes	1996-2003	N/A	http://www.great-lakes.org/exotics.html
	National Park Service	Isle Royal Fish Studies	?	?	?	?	?
	Environment Canada & U.S. EPA	SOLEC Indicator Database	The database was designed primarily to assist the SOLEC Indicator Group organize and sort the hundreds of indicators that were identified for the Great Lakes.	Great Lakes Region	1998 - ?	?	http://www.on.ec.gc.ca/solec/pdf/appendix5-v4.pdf
	Environment Canada	Environmental Effects Monitoring	The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.	Canada	1992-2002	N/A	http://www.ecologeris.com/details/online/
	OH DNR - Division of Geological Survey	Spatial Patterns Emphasize the Importance of Coastal Zones as Nursery Areas for Larval Walleye in Western Lake Erie	?	Western Lake Erie	? - 2000	N/A	Jonathan Fuller jonathan.fuller@dnr.state.oh.us
	International Association for Great Lakes Research	Assessment and Management of Fish Community Health in the Great Lakes: Synthesis and Recommendations	?	All Great Lakes	? - 1990	N/A	Sharon Dobush sharon.dobush@mnr.gov.on.ca 705-825-3415
	Ontario MNR	An Investigation of the Effects of Fish Habitat Modification in Batchewana Bay, Lake Superior (Projects 95-33 and 94-27)	?	Batchewana Bay, Lake Superior	? - 1996	N/A	Sharon Dobush sharon.dobush@mnr.gov.on.ca 705-825-3415
	Institute for Environmental Studies, University of Toronto	The Fish and Fisheries of Canadian Lake Superior	?	Lake Superior	? - 1982	N/A	Sharon Dobush sharon.dobush@mnr.gov.on.ca 705-825-3415
USGS-UMESC	Long Term Resource Monitoring Program	The mission of the Long Term Resource Monitoring Program is to provide decision makers with the information needed to maintain the Upper Mississippi River System as a viable multiple-use large river ecosystem. The long-term goals of the Program are to understand the system, determine resource trends and impacts, develop management alternatives, manage information, and develop useful products.	The Five Upper Mississippi River System states (Illinois, Iowa, Minnesota, Missouri, and Wisconsin).	1987-present	annually	http://www.umesc.usgs.gov/ltrmp.html	

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Amphibians	Federal, state, international, non-government, academic, and private industry partners (http://www.nbi.gov/about/partner/)	National Biological Information Infrastructure: FrogWeb	FrogWeb is a web-based resource developed by the USGS National Biological Information Infrastructure (NBII), a broad, collaborative program dedicated to providing increased access to data and information on the nation's biological resources. FrogWeb provides access to information and educational materials on amphibian declines and malformations.	National and International	? - Present	Constantly Updated	http://www.frogweb.gov/
	USGS	Northern American Reporting Center for Amphibian Malformations Data Sets	Presented online via clickable maps down to the county-level. Based on submitted observations.	United States		2000	http://www.npwr.usgs.gov/narcam/
	USGS	Amphibian Research and Monitoring Initiative National Database	In development, this database will store amphibian survey data, including information about sampling methods, species observed, habitat, water chemistry, etc. Data retrieval will be accessible online. ARMI Atlas reports county-level (sub-county level for some states).	United States	2002-2004		http://edc2.usgs.gov/armi/
	Bird Studies Canada, EC - Canadian Wildlife Service, U.S. EPA's Great Lakes National Program Office	Marsh Monitoring Program	Monitoring populations of marsh birds (53 species) and amphibians (13 species) over time on a variety of spatial scales through survey efforts of volunteers	Great Lakes states and Ontario	1995-1999		http://www.bsc-eoc.org/mmpreport.html
	National Heritage Inventory Program (Wisconsin DNR and The Nature Conservancy)	Wisconsin Herpetological Atlas	The Herp Atlas produces a computerized database of amphibian and reptile distribution, based on records obtained from museum collections, field surveys, literature, and field notes provided by volunteer observers throughout the state.	Wisconsin	1986-present	9-Mar-98	http://www.mpm.edu/collect/vertzo/herp/atlas/atlas.html
	Ontario MNR - Science and Information Branch (The Nature Conservancy of Canada, The Natural Heritage League, and The Nature Conservancy)	Natural Heritage Information Center - Element (Species) Database	Element of Biodiversity is the term coined by NatureServe used to refer to a species, subspecies, vegetation community, or special feature of the landscape. An Element Occurrence is defined as a location in the province where an Element has existed on a permanent or regular basis. What constitutes an occurrence depends on the element. For example, a bird occurrence is usually defined as a breeding area or migration staging area, but not a single sighting by a bird-watcher. A plant or vegetation community occurrence is usually any place where it occurs naturally.	Ontario	1983 -2003	Mar-03	http://www.mnr.gov.on.ca/MNR/nhic/
	Canadian Endangered Species Conservation Council	Wild Species 2000 Report	Overview of the status of Canada's species, bringing together the results of Provincial, Territorial, and Federal monitoring efforts	Canada	to be released every 5 years	2000	http://www.wildspecies.ca/en/Home_E.html
	Environment Canada	Biodiversity Portrait of the St. Lawrence River	Consolidation of scientific information and data on the physical and biotic characteristics of the region from the past 3 years.	St. Lawrence River, Canada	2000-2003		http://www.gc.ec.gc.ca/faune/biodiv/en/table_contents.html
MDNR	Michigan Frog and Toad Survey	Monitor long-term abundance and distribution of populations	Michigan	Annual (1996-2002)	2002	http://www.michigan.gov/dnr/1,1607,7-153-10370_12143_12194---,00.html	

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A n i m a l s Amphibians	MDNR	Selected species and habitat information	Provides links to scientific information about species and ecosystems	Michigan	N/A	N/A	http://www.michigan.gov/dnr/0,1607,7-153-10370_12145---00.html
	USDA Forest Service	Fire Effects Information System	This database contains synoptic descriptions, taken from current English-language literature of almost 900 plant species, about 100 animal species, and 16 Kuchler plant communities found on the North American continent. The emphasis of each synopsis is fire and how it affects each species. Background information on taxonomy, distribution, basic biology and ecology of each species is also included.	USA	? - Present	Constantly Updated	http://www.fs.fed.us/database/feis/index.html
	National Wildlife Federation	Frogwatch USA	Frogwatch USA is an educational frog and toad monitoring program started by the USGS in 1999. The program relies on citizen volunteers to gather information on frog populations throughout the United States. The USGS maintains a primary role in the scientific analysis of Frogwatch data.	United States	1999 - Present	2003	http://www.nwf.org/frogwatchUSA/
	Conservation organizations, federal government, international agencies, and private sector partners (http://www.natureserve.org/aboutUs/partners.jsp)	NatureServe website	Provides scientific information about species and terrestrial ecosystems. Includes description, distribution, status, and trend information on most native and introduced plant and animal species. Also includes classification and descriptions for upland and wetland ecosystems as well vegetation types included in the U.S. National Vegetation Classification. Contains links to methods documentation used by Natural Heritage programs. Specific contacts at NatureServe may provide access to multi-jurisdictional data on locations of rare species throughout the United States. Up to date occurrence data for species, as well as mapped locations of ecosystem, community, and natural areas are available through individual Natural Heritage programs in ON, MN, WI, IL, IN, MI, OH, PA, and NY.	International, National, and State Information	1974-2003	continuous	http://www.natureserve.org/getData/index.jsp
	MN DNR - Division of Ecological Services, Non-game Wildlife Program	Minnesota Frog & Toad Calling Survey	Provides dot maps of all MN frogs.	Minnesota	1996-2002	N/A	http://files.dnr.state.mn.us/volunteer/frogtoad_survey/Frog&toadsurvey.pdf
	USGS - Great Lakes Science Center	Great Lakes Aquatic Gap Analysis Project	To evaluate the biological diversity of aquatic species and their habitats, and to identify gaps in the distribution and protection of these species and their habitats within the Great Lakes basin.	All Great Lakes	2003-future	continuous	http://www.glsc.usgs.gov/GLGAP.htm
	USGS - Center for Aquatic Resource Studies	Nonindigenous Aquatic Species	Provided are scientific reports, online/realtime queries, spatial data sets, regional contact lists, and general information. The data is made available for use by biologists, interagency groups, and the general public.	USA	N/A	N/A	http://nas.er.usgs.gov
	Environment Canada & U.S. EPA	SOLEC Indicator Database	The database was designed primarily to assist the SOLEC Indicator Group organize and sort the hundreds of indicators that were identified for the Great Lakes.	Great Lakes Region	1998 - ?	?	http://www.on.ec.gc.ca/solec/pdf/appendix5-v4.pdf

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A n i m a l s	Amphibians	USGS - Patuxent Wildlife Research Center	North American Amphibian Monitoring Program (NAAMP)	The NAAMP is a collaborative effort among regional partners, such as state natural resource agencies and nonprofit organizations, and the U.S. Geological Survey (USGS) to monitor populations of vocal amphibians. The USGS provides central coordination and database management.	Indiana & Pennsylvania, soon to be all USA	1999-present	annually	http://www.mp2-pwrc.usgs.gov/NAAMP/
	Reptiles	MSU Extension	Michigan Natural Features Inventory	Rare and declining plants and animals, natural communities and ecosystems native to Michigan	Michigan	Historical (?) - present	Constantly Updated	Dennis Albert 517-335-4580 albertd@michigan.gov http://web4.msue.msu.edu/mnfi/home.cfm
		National Heritage Inventory Program (Wisconsin DNR and The Nature Conservancy)	Wisconsin Herpetological Atlas	The Herp Atlas produces a computerized database of amphibian and reptile distribution, based on records obtained from museum collections, field surveys, literature, and field notes provided by volunteer observers throughout the state.	Wisconsin	1986-present	9-Mar-98	http://www.mpm.edu/collect/vertzo/herp/atlas/atlas.html
		Minnesota DNR- Minnesota County Biological Survey	Natural Heritage Information System	Provides information on Minnesota's rare plants, animals, native plant communities and other rare features. County-by-county survey of natural communities. Information available upon request.	Minnesota	1987 to present		http://www.dnr.states.mn.us/ecological_services/nhnrp/nhis.html
		Wisconsin DNR	Wisconsin Natural Heritage Inventory Data Sets	Contains information on the status and distribution of endangered resources and georeferenced data on species and natural communities available down to the county level.	Wisconsin			http://www.dnr.stae.wis.us/org/land/her/hni/NHI_ims/onlineb.htm
		Environment Canada	Biodiversity Portrait of the St. Lawrence River	Consolidation of scientific information and data on the physical and biotic characteristics of the region from the past 3 years.	St. Lawrence River, Canada	2000-2003		http://www.qc.ec.gc.ca/faune/biodiv/en/table_contents.html
		Ontario MNR - Science and Information Branch (The Nature Conservancy of Canada, The Natural Heritage League, and The Nature Conservancy)	Natural Heritage Information Center - Element (Species) Database	Element of Biodiversity is the term coined by NatureServe used to refer to a species, subspecies, vegetation community, or special feature of the landscape. An Element Occurrence is defined as a location in the province where an Element has existed on a permanent or regular basis. What constitutes an occurrence depends on the element. For example, a bird occurrence is usually defined as a breeding area or migration staging area, but not a single sighting by a bird-watcher. A plant or vegetation community occurrence is usually any place where it occurs naturally.	Ontario	1983 -2003	Mar-03	http://www.mnr.gov.on.ca/MNR/nhic/
		Canadian Endangered Species Conservation Council	Wild Species 2000 Report	Overview of the status of Canada's species, bringing together the results of Provincial, Territorial, and Federal monitoring efforts	Canada	to be released every 5 years	2000	http://www.wildspecies.ca/en/Home_E.html
		MDNR	Selected species and habitat information	Provides links to scientific information about species and ecosystems	Michigan	N/A	N/A	http://www.michigan.gov/dnr/0,1607,7-153-10370_12145--,00.html

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A n i m a l s	Reptiles	USDA Forest Service	Fire Effects Information System	This database contains synoptic descriptions, taken from current English-language literature of almost 900 plant species, about 100 animal species, and 16 Kuchler plant communities found on the North American continent. The emphasis of each synopsis is fire and how it affects each species. Background information on taxonomy, distribution, basic biology and ecology of each species is also included.	USA	? - Present	Constantly Updated	http://www.fs.fed.us/database/feis/index.html
		Conservation organizations, federal government, international agencies, and private sector partners (http://www.natureserve.org/aboutUs/partners.jsp)	NatureServe website	Provides scientific information about species and terrestrial ecosystems. Includes description, distribution, status, and trend information on most native and introduced plant and animal species. Also includes classification and descriptions for upland and wetland ecosystems as well vegetation types included in the U.S. National Vegetation Classification. Contains links to methods documentation used by Natural Heritage programs. Specific contacts at NatureServe may provide access to multi-jurisdictional data on locations of rare species throughout the United States. Up to date occurrence data for species, as well as mapped locations of ecosystem, community, and natural areas are available through individual Natural Heritage programs in ON, MN, WI, IL, IN, MI, OH, PA, and NY.	International, National, and State Information	1974-2003	continuous	http://www.natureserve.org/getData/index.jsp
		USGS - Great Lakes Science Center	Great Lakes Aquatic Gap Analysis Project	To evaluate the biological diversity of aquatic species and their habitats, and to identify gaps in the distribution and protection of these species and their habitats within the Great Lakes basin.	All Great Lakes	2003-future	continuous	http://www.glsc.usgs.gov/GLGAP.htm
		USGS - Center for Aquatic Resource Studies	Nonindigenous Aquatic Species	Provided are scientific reports, online/realtime queries, spatial data sets, regional contact lists, and general information. The data is made available for use by biologists, interagency groups, and the general public.	USA	N/A	N/A	http://nas.er.usgs.gov
		Environment Canada & U.S. EPA	SOLEC Indicator Database	The database was designed primarily to assist the SOLEC Indicator Group organize and sort the hundreds of indicators that were identified for the Great Lakes.	Great Lakes Region	1998 - ?	?	http://www.on.ec.gc.ca/solec/pdf/appendix5-v4.pdf
	Birds	Ontario MNR - Science and Information Branch (The Nature Conservancy of Canada, The Natural Heritage League, and The Nature Conservancy)	Natural Heritage Information Center - Element (Species) Database	Element of Biodiversity is the term coined by NatureServe used to refer to a species, subspecies, vegetation community, or special feature of the landscape. An Element Occurrence is defined as a location in the province where an Element has existed on a permanent or regular basis. What constitutes an occurrence depends on the element. For example, a bird occurrence is usually defined as a breeding area or migration staging area, but not a single sighting by a bird-watcher. A plant or vegetation community occurrence is usually any place where it occurs naturally.	Ontario	1983 -2003	Mar-03	http://www.mnr.gov.on.ca/MNR/nhic/

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A n i m a l s	Birds	Environment Canada	Great Lakes Environmental Sensitivity Atlas and Database	Areas for migrating birds, breeding colonies sites, and endangered species habitat are identified on maps. Some additional information is available in the master database. Provides data and information on migratory water fowl, colonial nesting birds, wading birds shore birds and raptors.	U.S. and Canada Great Lakes shorelines	1991-1994	http://www.on.ec.gc.ca/emergency/enviro-sensitivity-atlas/intro-e.html	
		Environment Canada	Biodiversity Portrait of the St. Lawrence River	Consolidation of scientific information and data on the physical and biotic characteristics of the region from the past 3 years.	St. Lawrence River, Canada	2000-2003	http://www.qc.ec.gc.ca/faune/biodiv/en/table_contents.html	
		Canadian Endangered Species Conservation Council	Wild Species 2000 Report	Overview of the status of Canada's species, bringing together the results of Provincial, Territorial, and Federal monitoring efforts	Canada	to be released every 5 years	2000	http://www.wildspecies.ca/en/Home_E.html
		MDNR	Selected species and habitat information	Provides links to scientific information about species and ecosystems	Michigan	N/A	N/A	http://www.michigan.gov/dnr/0,1607,7-153-10370_12145---00.html
		MSU and Long Point Bird Observatory	Waterfowl Use of the Laurentian Great Lakes	Habitat and limiting factors of waterfowl in Great Lakes wetlands and deep water habitats	Great Lakes	Various years (1970s-1980s)	N/A	http://jglr.org/1992/num4/18_4_673-699.pdf
		Canadian Wildlife Service	Waterbird Surveys at Hamilton Harbor	Waterbird surveys conducted at Hamilton Harbor and Windermere Basin	Hamilton Harbor, Lake Ontario	1985-1988	N/A	http://jglr.org/1992/num3/18_3_420-439.pdf
		Bird Studies Canada, Ontario MNR, Canadian Wildlife Service, and Ontario Power Generation	Southern Ontario Bald Eagle Monitoring Program	Volunteer monitoring of nesting status. Observations are presented in a report.	Southern Ontario	1983-2003	2002	http://www.bsc-eoc.org/baea2000.html
		Bird Studies Canada, EC-Canadian Wildlife Service, U.S. EPA's Great Lakes National Program Office	Marsh Monitoring Program	Monitoring populations of marsh birds (53 species) and amphibians (13 species) over time on a variety of spatial scales through survey efforts of volunteers	Great Lakes states and Ontario	1995-Present		http://www.bsc-eoc.org/mmpreport.html
USDA Forest Service	Fire Effects Information System	This database contains synoptic descriptions, taken from current English-language literature of almost 900 plant species, about 100 animal species, and 16 Kuchler plant communities found on the North American continent. The emphasis of each synopsis is fire and how it affects each species. Background information on taxonomy, distribution, basic biology and ecology of each species is also included.	USA	? - Present	Constantly Updated	http://www.fs.fed.us/database/feis/index.html		

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Animals	Birds	Conservation organizations, federal government, international agencies, and private sector partners (http://www.natureserve.org/aboutUs/partners.jsp)	NatureServe website	Provides scientific information about species and terrestrial ecosystems. Includes description, distribution, status, and trend information on most native and introduced plant and animal species. Also includes classification and descriptions for upland and wetland ecosystems as well as vegetation types included in the U.S. National Vegetation Classification. Contains links to methods documentation used by Natural Heritage programs. Specific contacts at NatureServe may provide access to multi-jurisdictional data on locations of rare species throughout the United States. Up to date occurrence data for species, as well as mapped locations of ecosystem, community, and natural areas are available through individual Natural Heritage programs in ON, MN, WI, IL, IN, MI, OH, PA, and NY.	International, National, and State Information	1974-2003	continuous	http://www.natureserve.org/getData/index.jsp
		USGS - Great Lakes Science Center	Great Lakes Aquatic Gap Analysis Project	To evaluate the biological diversity of aquatic species and their habitats, and to identify gaps in the distribution and protection of these species and their habitats within the Great Lakes basin.	All Great Lakes	2003-future	continuous	http://www.glsc.usgs.gov/GLGAP.htm
		USGS - Center for Aquatic Resource Studies	Nonindigenous Aquatic Species	Provided are scientific reports, online/realtime queries, spatial data sets, regional contact lists, and general information. The data is made available for use by biologists, interagency groups, and the general public.	USA	N/A	N/A	http://nas.er.usgs.gov
		USGS - Patuxent Wildlife Research Center	North American Breeding Bird Survey (BBS)	To monitor the status and trends of bird populations across the U.S. and Canada. The survey is based on randomly selected roadside routes that are surveyed once annually during the breeding season. The counts obtained along BBS routes are used as indices of population change. Geographic Domain: U.S. (except for Hawaii) and Canada. As a roadside survey, coverage is poor to nonexistent in a large portion of northern Canada and Alaska.	USA & Canada	1966-present	annually	http://www.mp2-pwrc.usgs.gov/bbs/
		USGS - Patuxent Wildlife Research Center	Colonial Waterbird Monitoring Database	This database serves as a clearinghouse for data obtain from surveys of breeding colonial waterbirds across the U.S. and Canada. These surveys are used to establish the status and trends of continental colonial waterbird populations.	USA & Canada	1970s - Present	2000	http://www.mp2-pwrc.usgs.gov/cwb/database/

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Animals Birds	USGS - Patuxent Wildlife Research Center & The American Bird Conservancy	Point Count Database	The Partners in Flight (PIF) bird conservation initiative has organized a number of point count surveys to obtain information on the status and trends of songbird populations.	Variable. Some of these programs are state-based, and conduct point counts across the state. Others have a more local geographic area of interest, such as a specific wildlife refuge, state park, or similar area of management interest. Data from US Fish and Wildlife Service wildlife refuges in the Great Lakes region have been added to this database.	1995-Present	annually	http://www.mp2-pwrc.usgs.gov/point/
	National Audubon Society	Christmas Bird Count	To obtain information on the distribution, status, and trends of bird populations during the early winter season. CBCs are conducted between mid-December and early January each year. The CBC is conducted within a "circle", which is a 15-mile diameter area designated by the count coordinators so as to not overlap with any other CBC. During a single day during the count period, CBC participants attempt to count as many birds as possible within the CBC circle. The number of participants varies among the counts, from fewer than 10 to more than 200. The total numbers of birds counted, usually adjusted by unit of effort, are used as an index of bird population change over time.	Primarily the U.S. and Canada, with a small number of counts in Mexico, Central America, and the Caribbean.	1958-present	annually	http://www.audubon.org/bird/cbc/index.html
	USGS - Snake River Field Station	Mid-winter eagle survey	To obtain information on the distribution, status, and trends of wintering eagle populations on the continent. The survey is conducted once annually, usually during a two-week period in January. A variety of methods are used including aircraft and ground-based surveys, based on standardized survey routes established in each state.	USA & Canada	1979-present	annually	Karen Steenhof USGS Snake River Field Station (208) 426-5206 karen_steenhof@usgs.gov
	Wisconsin Society for Ornithology	Wisconsin Breeding Bird Atlas	The purpose of this study is to provide a permanent record of the bird species breeding in the state, provide baseline data for monitoring future changes in bird populations, assess habitat needs of breeding species and document species diversity, document abundance and distribution of rare and endangered species, provide comparisons with historical studies, complement existing or on-going avian monitoring programs in Wisconsin and in nearby states, assist international efforts to preserve neotropical migratory birds, help in land use planning by local and state governments, and assist industry in preparing environmental impact assessments.	Wisconsin	1995-2000	N/A	http://www.uwgb.edu/birds/wbba/index.htm
	New York State Department of Environmental Conservation	New York State Breeding Bird Atlas	The Breeding Bird Atlas is a comprehensive, statewide survey that will reveal the current distribution of breeding birds in New York.	New York	2000-2004	N/A	http://www.dec.state.ny.us/website/dfwmr/wildlife/bba/index.html

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A n i m a l s	Birds	OH DNR - Division of Natural Areas and Preserves	Ohio Breeding Bird Atlas	The primary goal of the Ohio Breeding Bird Atlas Project was to document the status and distribution of all birds breeding in Ohio. Additional objectives of this project included providing more accurate information on the distribution and nesting occurrences of Ohio's rare and endangered breeding birds; identifying significant habitats supporting rare or unusual species which could become the focus of preservation efforts; providing baseline data against which future changes in the status and distribution of Ohio's breeding birds can be measured; providing baseline data for the development of environmental impact statements; involving the birders of Ohio in a cooperative effort of scientific value and heightening their awareness of the state's summer birdlife.	Ohio	1982-1987	N/A	http://www.dnr.state.oh.us/dnap/OhioBirding/BreedingBirdAtlas/BreedingBirdAtlas.htm
		Aves.net	A Winter Bird Atlas for Ohio	To identify avian winter residents of Ohio.	Ohio	2003-2007	N/A	http://www.aves.net/winter-atlas/
		Federation of Ontario Naturalists, Bird Studies Canada, Canadian Wildlife Service, Ontario Ministry of Natural Resources, and Ontario Field Ornithologists	Ontario Breeding Bird Atlas	To develop an up-to-date and accurate picture of the status and distribution of all bird species throughout Ontario. It follows on the highly successful Ontario Breeding Bird Atlas carried out from 1981-1985, and is intended to help with conservation and protection of Ontario's birds through providing answers to key biological questions	Ontario	2001-2005	N/A	http://www.birdsontario.org/atlas/atlasmain.html
		Illinois Department of Natural Resources	Illinois Breeding Bird Atlas	To document the current status and distribution of the species of birds that breed in Illinois. Censuses were conducted during 1986-1991 following a standardized methodology. Three levels of breeding status are depicted on the distribution maps- confirmed, probable and possible.	Illinois	1986-1991	N/A	http://www.inhs.uiuc.edu/chf/pub/ifwis/maps/
		United States Fish and Wildlife Service Cooperative Research Unit	Pennsylvania Breeding Bird Atlas	The Pennsylvania Breeding Bird Atlas Project was a cooperative, volunteer-based survey conducted from 1983 through 1989. As part of the Gap Project, the Atlas provides the most comprehensive survey of nesting birds in Pennsylvania's history.	Pennsylvania	1983-1989	N/A	http://www.webmapping.org/data/bb_atlas.html
		Environment Canada & U.S. EPA	SOLEC Indicator Database	The database was designed primarily to assist the SOLEC Indicator Group organize and sort the hundreds of indicators that were identified for the Great Lakes.	Great Lakes Region	1998 - ?	?	http://www.on.ec.gc.ca/solec/pdf/appendix5-v4.pdf
	Mammals	Canadian Endangered Species Conservation Council	Wild Species 2000 Report	Overview of the status of Canada's species, bringing together the results of Provincial, Territorial, and Federal monitoring efforts	Canada	to be released every 5 years	2000	http://www.wildspecies.ca/en/Home_E.html
		MDNR	Selected species and habitat information	Provides links to scientific information about species and ecosystems	Michigan	N/A	N/A	http://www.michigan.gov/dnr/0,1607,7-153-10370_12145---,00.html

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A n i m a l s Mammals	Ontario MNR - Science and Information Branch (The Nature Conservancy of Canada, The Natural Heritage League, and The Nature Conservancy)	Natural Heritage Information Center - Element (Species) Database	Element of Biodiversity is the term coined by NatureServe used to refer to a species, subspecies, vegetation community, or special feature of the landscape. An Element Occurrence is defined as a location in the province where an Element has existed on a permanent or regular basis. What constitutes an occurrence depends on the element. For example, a bird occurrence is usually defined as a breeding area or migration staging area, but not a single sighting by a bird-watcher. A plant or vegetation community occurrence is usually any place where it occurs naturally.	Ontario	1983 -2003	Mar-03	http://www.mnr.gov.on.ca/MNR/nhic/
	Environment Canada	Biodiversity Portrait of the St. Lawrence River	Consolidation of scientific information and data on the physical and biotic characteristics of the region from the past 3 years.	St. Lawrence River, Canada	2000-2003		http://www.gc.ec.gc.ca/faune/biodiv/en/table_contents.html
	Conservation organizations, federal government, international agencies, and private sector partners (http://www.natureserve.org/aboutUs/partners.jsp)	NatureServe website	Provides scientific information about species and terrestrial ecosystems. Includes description, distribution, status, and trend information on most native and introduced plant and animal species. Also includes classification and descriptions for upland and wetland ecosystems as well vegetation types included in the U.S. National Vegetation Classification. Contains links to methods documentation used by Natural Heritage programs. Specific contacts at NatureServe may provide access to multi-jurisdictional data on locations of rare species throughout the United States. Up to date occurrence data for species, as well as mapped locations of ecosystem, community, and natural areas are available through individual Natural Heritage programs in ON, MN, WI, IL, IN, MI, OH, PA, and NY.	International, National, and State Information	1974-2003	continuous	http://www.natureserve.org/getData/index.jsp
	USGS - Center for Aquatic Resource Studies	Nonindigenous Aquatic Species	Provided are scientific reports, online/realtime queries, spatial data sets, regional contact lists, and general information. The data is made available for use by biologists, interagency groups, and the general public.	USA	N/A	N/A	http://nas.er.usgs.gov
	Purdue University	Wolf Ecology and Prey Relationships on Isle Royale	?	Isle Royal	? - 1974	N/A	Sharon Dobush sharon.dobush@mnr.gov.on.ca 705-825-3415
	Environment Canada & U.S. EPA	SOLEC Indicator Database	The database was designed primarily to assist the SOLEC Indicator Group organize and sort the hundreds of indicators that were identified for the Great Lakes.	Great Lakes Region	1998 - ?	?	http://www.on.ec.gc.ca/solec/pdf/appendix5-v4.pdf
	USDA Forest Service	Fire Effects Information System	This database contains synoptic descriptions, taken from current English-language literature of almost 900 plant species, about 100 animal species, and 16 Kuchler plant communities found on the North American continent. The emphasis of each synopsis is fire and how it affects each species. Background information on taxonomy, distribution, basic biology and ecology of each species is also included.	USA	? - Present	Constantly Updated	http://www.fs.fed.us/database/feis/index.html