

Partnering for Clean Streams Patch Program



Complete five
activities to
become a partner
with the Maumee RAP
in keeping our streams clean.



Partnering for Clean Streams Patch Program

The Maumee Rap is a partnership of environmentally concerned businesses, industries, government agencies, non-profit organizations, educators and citizens who work together on programs designed to make clean rivers and streams possible. We'd like you to become partners with us in the endeavor to improve, protect and preserve these precious natural resources. This program is designed to help you learn about your local fresh water sources and how to keep those sources clean and abundant. When you have earned your patches we hope you will have greater pride of ownership in the waters of our area and will be eager to continue as active partners in their preservation.

It's easy and fun to become a partner with the Maumee RAP, just complete at least 5 of the 8 activities listed on the next pages. Remember what's important is to fulfill the spirit of the activity, so if you and your group have an activity in mind that isn't listed here, it's OK to use it. When you've completed at least 5 activities including the starred activity, fill out the order form attached and send it in. When your patches arrive, wear them proudly as partners for clean streams!

Enclosures:

- Partnering for Clean Streams Patch Activities
- Program resource list
- Maumee RAP brochure
- Patch order form
- Sample patch

Activity 1: Find your place in our watershed!



Explanation: Define "watershed" and the boundaries of the Maumee watershed or your local watershed. Discover the uses and history of your watershed.

Tools: Watershed map in Maumee RAP brochure; topographic maps of your local area; historical references; "Fate of a River" videos.

Suggested activities: Display a map of the watershed and locate individuals' homes with pins; research watershed history with books, videos or a speaker; tour the Lucas County Port Authority Docks, COSI or the S.S. Willis B. Boyer Museum Ship.

Activity 2: Where does that glass of water really come from?

Explanation: Discuss the sources municipalities use for drinking water and how those sources are vulnerable to contamination by pollution.



Topographic and city maps

Suggested activities: Visit a pumping station or investigate how wells are dug; have a speaker talk about surface water and storm water runoff; learn about the water cycle; find out what "ground water" is and where it comes from.



Activity 3: Is it safe to drink?

Explanation: Water may need to be treated to be safe to drink, and wastewater must be treated to be safe to return to rivers and streams.

Tools: basic water testing kit

Suggested activities: Tour a water or wastewater treatment facility or talk to an expert to find out how septic tanks are made and maintained; visit a landfill and discover what they do to protect our drinking water; do a basic water quality test on your water source.



Activity 4: Let's go fishing

Explanation: A watershed is important for fun too!

fishing equipment, safety equipment

Suggested activities: fishing; swimming in lake or other natural body of water; boat ride; picnic or other activity near a lake, river or stream; hike with a naturalist through a national wildlife refuge, state or city park that has a significant natural water feature.



Activity 5: Down on the farm...

Explanation: Livestock and crops need water too, and they alter the land affecting a watershed

Tools: planning or zoning maps; soil loss data; sediment data; water quality data; simple water testing kit; safety equipment

Suggested activities: Visit or invite a speaker from your local Soil and Water Conservation District, Farm Bureau or Extension Service; find out what a soil erosion and sediment control plan is; discover what no-till farming is; find out what sediment is, examine a sample from the bottom of a safe stream, and then test the sample for water quality.

Activity 6: Asphalt Jungle



Explanation: Urban areas affect water quality, too.

Tools: city maps, simple water testing kits, map of storm sewer lines

Suggested activities: find out what is meant by the term "storm water runoff" and what is being done in your locality to keep it clean; invite a speaker from your local Soil and Water Conservation District to talk about the impact of paved areas on storm water runoff; visit municipal or county environmental services, state EPA, or a construction engineering firm to talk about urban erosion and runoff; take samples of storm water runoff from a variety of sites, and then test them and/or let them settle and compare them; visit a sewage treatment facility and find out if the storm water runoff in your city is treated before it reaches local streams; visit a landfill and discover what is done to prevent garbage from contaminating storm water runoff.



Activity 7: Let's work together!

Explanation Maumee RAP is a partnership for cleaner streams.

Tools: Resource people in environmental groups and agencies

Suggested activities: Participate in one of the following local activities promoting clean streams: Coast Weeks; Streamkeepers; Storm Drain Stenciling; Student Watershed Watch or other community program; or find a project that needs to be done, plan the activity and recruit others in your community to help you!



Activity 8: Do your part!

Explanation: Each individual can make a difference in working for cleaner water.

Tools: Reference works on environmentally healthy living and resource people in environmental groups and agencies.

Suggested activities: Research and/or talk with experts about how each person can make a difference in the effort for clean streams; set goals to recycle, reuse, and otherwise reduce solid waste at home; partner with your family to do things at home to improve water quality by signing a promise to recycle, compost, reduce water use, and dispose of hazardous household chemicals properly; plant a tree or a garden.

Resources:

This is a partial list of print materials, audio/visual materials and, even more importantly, people and organizations that can provide assistance in completing the above activities.

Maumee RAP

Watershed coordinator-419-241-9155

RAP coordinator-419-352-8481

Website www.maumeerap.org

"Fate of a River" videos (in resource rooms and libraries in November 2002) - These 30 minute videos chronicle the past and present problems of the Maumee River and the past, present and future action needed to improve and preserve it.

Government Agencies-

City & County agencies:

City of Toledo-

Division of Environmental Services 419-936-3015

Division of Waste Water Treatment 419-729-3861

Division of Water Treatment 419-936-3021

Division of Water Distribution 419-936-2506

Website www.ci.toledo.oh.us

Or check government phone listings for your own city agencies.

Lucas County-

Soil and Water Conservation District 419-893-1966

Solid Waste Management District 419-255-6477

Website www.co.lucas.oh.us

Ottawa County-

Soil and Water Conservation District 419-898-1595

Wood County-

Soil and Water Conservation District 419-352-ca15172

Solid Waste Management District 419-354-9297

Or check government phone listings for your county agencies.

Regional agencies:

Ottawa-Seneca-Sandusky Solid Waste Management District 419-334-7222

Toledo Area Metroparks 419-535-3050

Website - www.metroparkstoledo.com

Toledo Area Sanitary District 419-726-7891

Toledo Lucas County Public Library, local history department 419-259-5233

Website www.library.toledo.oh.us

Toledo Lucas County Port Authority 419-243-8251

Website www.toledoportauthority.org

State agencies:

Ohio Department of Natural Resources 1-800-WILDLIFE or 1-800-AT-A-PARK
Website www.ohiodnr.com

Ohio EPA- Northwest Ohio District Office 1-800-686-6930
Website www.epa.state.oh.us

Ohio Geological Survey www.ohiodnr.com/geosurvey

Ohio Lake Erie Commission 419-245-2514
Website www.epa.state.oh.us/oleo/comissi.htm

Ohio Sea Grant:
Toledo Office 419-213-4254
Port Clinton Office 419-635-1022
Website www.sg.ohio-state.edu

Ohio State University Extension Service:
Lucas County 419-213-4254
Ottawa County 419-898-3631
Wood County 419-354-9050
Northwest District Office 419-422-6106
Website www.ag.ohio-state.edu

Federal agencies

U.S. Department of Agriculture, Farm Services -
Fulton & Western Lucas Counties 419-335-6061
Ottawa & Eastern Lucas Counties 419-898-2651
Wood County 419-352-5171
Website www.usda.gov

U.S. Department of Agriculture, Natural Resources Conservation Services -
Ottawa County Field Office 419-898-6431
Wood County Field Office 419-352-5172
Website www.usda.gov

U.S. Coast Guard-
Toledo Marine Safety Office 419-418-6000
Website www.uscg.mil

U.S. EPA-
Region 5 Main Office 312-353-2000
Region 5 Cleveland Office 440-250-1700
Website www.epa.gov

U.S. Geological Survey-
Ohio Office, Water Resources Division (Columbus) 614-469-5553
Website www.usgu.gov

U.S. Fish and Wildlife Service-
Ottawa National Wildlife Refuge 419-898-0014
Website www.fws.gov

International agencies:

International Joint Commission (for the Great Lakes) 313-226-2170 (Detroit)
Website www.ijc.org

Private Organizations:

Black Swamp Conservancy 419-872-5263
Website www.wcnet.org/~bsc

Clearwater, Inc. 419-874-9435

Conservation Action Project 419-592-9692

Duck and Otter Creeks Partnership 419-530-8366

Farm Bureau, Lucas, Ottawa & Wood Counties 419-833-8015

Great Lakes Historical Society and Inland Seas Museum 1-800-893-1485
Website www.inlandseas.org

Keep Toledo/Lucas County Beautiful 419-255-0635
Website recycle.utoledo.edu/ktlcb/

Lucas County-Maumee Valley Historical Society 419-893-9602
Website www.maumee.org/wolcott/wolcott.htm

Maumee Valley Heritage Corridor 419-874-5686
Website www.heidelberg.edu/FallenTimbers/FTCCorridor.html

National Audubon Society-There are chapters in Napoleon, Sandusky and Whitehouse, contact any of them through the Ohio office 614-224-3303
Website www.audubon.org

The Nature Conservancy 419-867-1521
Website www.nature.org

Natural Areas Stewardship 419-829-6226

Neighborhood Improvement Foundation of Toledo, Inc. 419-244-5998

Northwest Ohio Pollution Prevention Team 419-352-8461
Website www.bgsu.edu/organizations/recycle/

Oak Openings Region Preservation Alliance 419-385-4089
Website www.oakopeningsregion.com

S.S.Willis B. Boyer Museum Ship 419-936-3070
Website www.internationalpark.org/boyermain.html

Water testing kits and info-

Hach Water Testing Kits- www.hach.com/h2ou/index.htm
Frey Scientific offers several types of kits-www.freyscientific.com/index.jsp
Also, garden centers and farm supply companies often have simple water testing kits.