

Ohio Department of Natural Resources **Office of Coastal Management** 2008 Annual Review



On the Inside



Our Mission - 2



Resource Protection - 8



Grants Issued - 14



Education & Outreach - 4



Office Functions - 10



Budget - 16



Regulations - 6



Partnership Projects - 12

Ohio

Office of Coastal Management

Ohio Coastal Management Program

The Ohio Department of Natural Resources (ODNR) Office of Coastal Management administers the federally approved Ohio Coastal Management Program. The program sets forth 41 policies and guidelines to monitor activities that affect coastal resources and ensure resource protection while balancing economic, cultural and environmental interests.

Program policies are organized into nine areas: Coastal Erosion and Flooding; Ports and Shoreline Development; Environmental Quality; Water Quality; Recreation and Cultural Resources; Energy and Mineral Resources; Wetlands and other Ecologically Sensitive Resources; Fish and Wildlife Management; and Water Quantity.

While implementing the coastal program, decision makers must consider the characteristics of Ohio's Lake Erie Watershed which includes large and small businesses and industries, world-class institutes of higher-education, residential communities, prime farmland, scenic rivers, lush forests, wetlands, marshes, sand dunes and estuaries.

More than 119,000 northern Ohio jobs are directly linked to Lake Erie-region visitors who spend \$10.7 billion annually in direct sales. Lake Erie provides daily drinking water to more than 3 million Ohioans. The region is also home to highly diverse ecosystems supporting fish, wildlife and plants, including many rare and endangered species.

Coastal management decisions are made for the sustainable use, development and protection of Ohio's Lake Erie-region resources recognizing the distinctive character of the coastal area and the importance of conserving it for current and future generations.



The Office of Coastal Management is the lead agency in a cooperative effort by state and federal agencies, political subdivisions and local groups to manage Ohio's Lake Erie coastal resources, monitor activities that affect the resources, and foster the resources' sustainable use for the benefit of all citizens.

Core Responsibilities

- Administering the Ohio Coastal Management Program.
- Providing coastal resources management, education and outreach.
- Fostering relationships with partners and stakeholders.
- Implementing an effective coastal regulatory program for which ODNR has direct authorities.
- Coordinating federal, state and local entities to promote the effective management, protection and restoration of Ohio's coastal resources.
- Administering various grants including Coastal Management Assistance Grants, Core Discretionary grants, Coastal and Estuarine Land Conservation Program grants and annual NOAA grants to the Ohio Coastal Management Program.
- Providing support to the Ohio Coastal Resources Advisory Council.



MESSAGE FROM THE DIRECTOR

During 2008, the Office of Coastal Management took important steps toward the vision of attaining a healthy Lake Erie region with vital ecosystems and prosperous coastal communities. We made advances in our regulatory program, improving efficiency and enhancing free technical assistance to our constituents. We reached out to Ohio coastal partners to coordinate education and outreach efforts. We obtained national recognition for successes in coastal resource protection and restoration and we continue to sustain financial responsibility.

We did not do it alone.

Implementation of Ohio Coastal Management Program involves teamwork and collaboration. The partnership efforts by state agencies, local leaders, community groups and individual citizens have been critical in the improvements achieved thus far. As time progresses, these partnerships will become more important as those who use and benefit from Lake Erie resources integrate sustainable resource-improvement actions into their everyday lives.

In 2009, the Office of Coastal Management will take a fresh look at the most effective and efficient ways to address the complex coastal resources management issues that reflect Lake Erie's dynamic personality. These issues include climate change, alternative energy, invasive species, coastal hazards and reauthorization of the federal Coastal Zone Management Act. Within each of these challenges lies opportunity for a cleaner, healthier Lake Erie coast and improved quality of life for watershed residents and visitors.

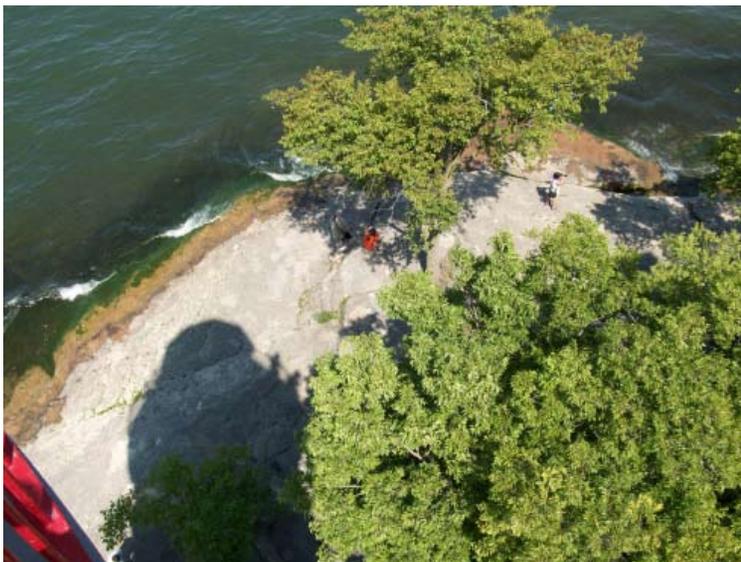
Sean D. Logan

Sean D. Logan, ODNR Director



Guiding Principles

The Office of Coastal Management provides information to coastal communities, decision makers and the public regarding coastal resources, the Ohio Coastal Management Program, Lake Erie and the Great Lakes ecosystems.



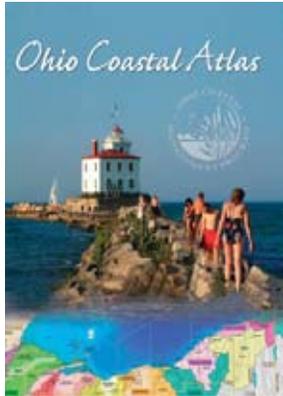
We envision a Lake Erie-literate citizenry applying lessons learned through education and training to make wise decisions and take personal actions that create a healthier Lake Erie.

Lake Erie Education and Outreach

2008 Accomplishments

- Participated in more than 33 education and outreach events which included hands-on displays, presentations, poster sessions, lectures and public meetings.
- Created and hosted an interactive display visited by an estimated 4,000 people at the 10-day Cleveland Boat and Waterfront Lifestyle Expo in January. The same display was part of numerous other events throughout the year including:
 - Toledo Skyway Marina Earth Voyager Festival
 - Great Lakes Burning River Festival on the Cuyahoga River
 - East Harbor State Park Conservation Fair
 - North American In-Water Boat Show at Cedar Point.
- Hosted a Lake Erie display in the Natural Resources Park at the Ohio State Fair. An estimated 25,000 people visited the park during the two-week event.
- Provided information and guidance to more than 150 advanced 8th grade students from numerous Erie County schools. They were competing in teams to draft the best Brownfield redevelopment plan for a 14.4-acre waterfront site within the city of Sandusky.
- Published and distributed an estimated 300 *Ohio Coastal Management Program Grants 1998-2007* booklets. The booklets showcase how \$34 million in coastal funding awards have benefited communities and leveraged more than \$34 million in additional funding for local economic development and resource protection projects.
- Distributed nearly 7,000 *Ohio Coastal Atlas* DVDs at education and outreach events and as classroom sets to schools in the Lake Erie Watershed.
- Provided an estimated 2,600 walk-in residents and visitors with fact sheets, brochures, maps, pamphlets and information on coastal resources, services and Lake Erie-related attractions.
- Responded to more than 400 inquires from residents and visitors seeking information on Lake Erie, the Great Lakes and other coastal resources.

Education and Outreach



Award Winning Productions

The Ohio Coastal Atlas Project won two national awards in 2008. The project elements can be found by selecting “Atlas/GIS” at www.ohiodnr.com/coastal. Project features include the 240-page printed second edition, the DVD atlas and the online interactive Atlas Map Viewer. The national awards included:

- The 2008 National Association of Environmental Professionals (NAEP) Environmental Education Award for Education Excellence.
- A Notable Government Document 2007 Award from the American Library Association’s Government Documents Round Table.

A Fresh Look for www.ohiodnr.com/coastal

The Office of Coastal Management WebPages were updated with a new design. All state agencies WebPages are being updated to a standard layout to provide Ohioans more consistency when browsing for web-based resources. The updated coastal website features improved navigation, expanded information and many additional pictures.

Lake Erie Education and Outreach Partnership

NOAA-funded agencies in Ohio partnered to develop a unified education and outreach plan for Lake Erie and its watershed. The partners committed to this effort include: the Office of Coastal Management, Old Woman Creek National Estuarine Research Reserve, and the Ohio Sea Grant College Program. Although not directly funded by NOAA, the Ohio Lake Erie Commission is also a dedicated partner. Programs administered by these agencies include the Ohio Coastal Management Program, the Ohio Coastal Training Program, the Ohio Clean Marinas Program, the Lake Erie Protection and Restoration Plan, and the Lake Erie Balanced Growth Program.

The outreach and education plan outlines ways to actively engage coastal constituents in an effort to build knowledge on topics relevant to Ohio’s role in the Great Lakes coastal ecosystem. The goal is to achieve greater environmental literacy, personal safety and an improved economy for the Buckeye State. To learn more, select “Lake Erie Education and Outreach Program” under the “Programs” link on the coastal website.



The Office of Coastal Management administers regulatory programs for which ODNR has direct authorities as outlined in Ohio Revised Code Section 1506 and Ohio Administrative Code Section 1501-6. In doing so, the Office coordinates with state, federal and local agencies to promote the effective management of Ohio's coastal resources.



The Coastal Design Manual will be a tool to help educate engineers, contractors, property owners and others about coastal engineering and project design in Ohio's Lake Erie coastal environment.

Coastal Design Manual

2008 Accomplishments

- Issued 29 Shore Structure Permits, 21 Submerged Lands Leases, two Coastal Erosion Area Permits and one Underwater Salvage Permit . There are 646 Shore Structure Permits, 28 Coastal Erosion Area Permits, and 827 Submerged Lands Leases on file.
- Conducted 76 Federal Consistency reviews to ensure that federal agency projects, permits and funding that will likely have effects on Ohio's designated Coastal Management Area are consistent with the enforceable policies of the OCMP.
- Responded to more than 200 requests for technical assistance related to regulatory programs including Coastal Erosion Areas, engineering design of coastal structures and surveying methods used in coastal areas.
- Submitted a regulatory compliance monitoring and enforcement development plan to the National Oceanic and Atmospheric Administration based on the triennial review and evaluation of the OCMP.
- Entered into a contract with a coastal engineering firm for the development of the *Coastal Design Manual* for delivery in 2009.
- Worked closely with the U.S. Army Corps of Engineers and Ohio Environmental Protection Agency to coordinate regulatory reviews of proposed projects.
- Transferred and entered regulatory data from more than 2,840 shore structure permit applications, submerged lands leases, coastal erosion area permits and other files into a new regulatory database. The database improves service consistency and efficiency.
- Updated Ohio's Lake Erie Public Access Inventory which identifies and categorizes publicly accessible locations on Ohio's 312-mile Lake Erie coast. The 2008 fieldwork findings show roughly 15 percent of Ohio's coast, or 48 miles at 138 sites, is publicly accessible. This work was conducted in accordance with ORC 1506.05 and satisfies NOAA performance measure requirements.

Regulatory Program Implementation

Drafted Regulatory Rules

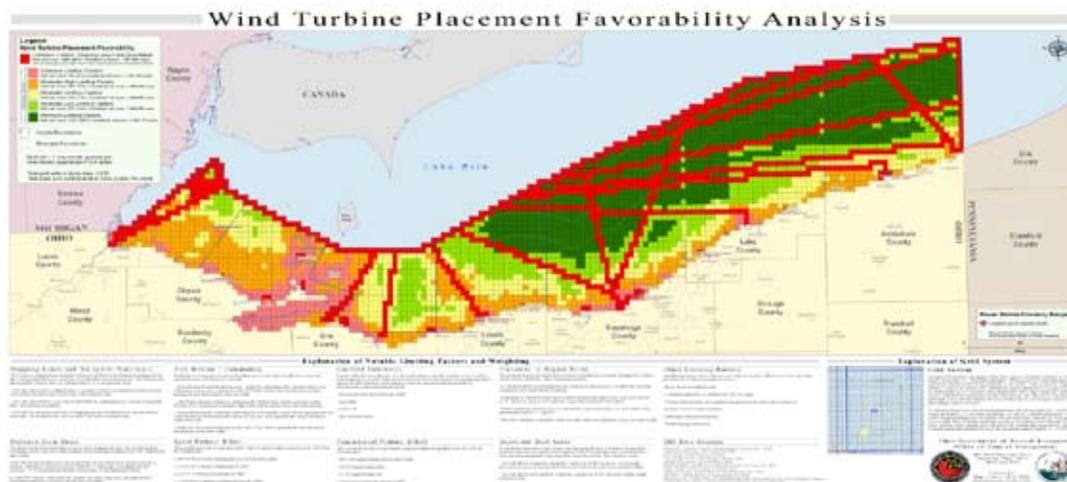
In an effort to update and clarify policies regarding development along Ohio's 312-mile coast and in Lake Erie, the Ohio Department of Natural Resources is revising portions of and drafting new Ohio Administrative Code (OAC) rules for Section 1501-6.

The first set of OAC rules seeks to clarify the guidelines and enhance consistency in the administration of submerged lands leases and submerged lands permits (OAC 1501-6-01 through 1501-6-09) and to reflect applicable court rulings. OAC rules (1501-6-31 to 1501-6-39) were drafted to provide clarification and guidance on the requirements for coastal structure permits. Three public meetings and a public comment period were held on these draft rules in the fall of 2008. More than 240 people and organizations submitted comments. At the end of 2008, the OCM was finalizing the review and, where appropriate, the integration of comments into the rules. The updated rules will be presented in 2009.

A separate set of OAC rules relates to placement of wind energy generation facilities in Lake Erie. In coordination with other state and federal agencies and coastal partners, the Office of Coastal Management is finalizing the first draft of offshore wind energy rules (1501-6-40 to 1501-6-50) for release in 2009. The OCM will host public meetings and request comments on these rules in a similar process used for the rules regarding coastal structure permits and submerged lands leases/permits.

To learn more, read complete draft rule language and see larger versions of the below map:

1. Visit: www.ohiodnr.com/coastal
2. Select "**Regulatory**" in the top navigation.
3. Select "**Land Management Rules**" or "**Wind Energy Rules**" in the left navigation.



The Office of Coastal Management works closely with partners at the local, state, regional and federal levels to identify key coastal resources and secure funding to protect and restore Ohio's coastal treasures.



2008 Accomplishments

- Served on the advisory boards for the Ohio Coastal Training Program, the Old Woman Creek National Estuarine Research Reserve and the Ohio Clean Marinas Program.
- Assisted the *National Wetland Inventory* update for Ohio by documenting field conditions at select wetland sites in the Lake Erie Watershed.
- Participated in grant review committees for Ohio Sea Grant and the Ohio Lake Erie Commission and included staff from these agencies and Old Woman Creek National Estuarine Research Reserve, and the ODNR Division of Soil and Water Conservation on the Coastal Management Assistance Grants review team.
- Participated in the NOAA Program Managers meeting, the Great Lakes regional coastal management program meeting and the Coastal States Organization's spring and annual meetings.
- Facilitated meetings of the Integrated Management Team which coordinates Ohio Coastal Management Program activities within ODNR.
- Facilitated meetings of the Policies and Programs Committee which coordinates coastal activities among state agencies in Ohio.
- Participated in workgroups focused on the reauthorization of the federal Coastal Zone Management Act, regional coastal/ocean governance, climate change and alternative energy.
- Served on the Environmental Action Team for the Ohio Wind Working Group and provided technical support for mapping of wind resources, bathymetry, habitat, shipping channels and other geospatial features.
- Provided support to regional and national organizations with a stake in Ohio coastal management including: Coastal States Organization, the Great Lakes Commission, the Great Lakes Dredge Team, the Professional Land Surveyors of Ohio and the Ohio Association of Realtors.
- Ohio's Coastal and Estuarine Land Conservation Program's involvement in the acquisition of East Sandusky Bay was featured in NOAA's 2008 nationwide CELCP Accomplishments brochure. viewable at: www.coastalmanagement.noaa.gov/land/welcome.html

Erosion control projects along Ohio's coast have been completed on an individual basis with mixed results. The Lake Erie Shore Erosion Management Plan promotes voluntary adoption of a regionally based plan outlining successful means of erosion control.

Lake Erie Shore Erosion Management Plan

Resource Protection and Restoration

Coastal Nonpoint Pollution Control Program (CNPCP)

Nonpoint source pollution consists of contaminants that originate diffusely on land and run off into waterbodies after rain or snow events. Ohio's CNPCP addresses the Lake Erie basin's unique nonpoint pollution concerns by focusing public resources on the most achievable solutions for reducing runoff pollution. In 2008, the CNPCP:

- Initiated the Lake Erie Dams Project by hiring a program coordinator, inventorying more than 300 Lake Erie tributary dams, and developing a best management practices guidebook for dam maintenance and operation. The Lake Erie Dams Program examines a dam's function within an ecosystem and determines whether the dam's removal or continued maintenance and operation will have the greatest long-term benefits on water quality and riparian habitat. Addressing Lake Erie tributary dams is one of the final items that needs to be approved for Ohio's CNPCP to receive final federal approval.
- Continued to partner with Ohio Sea Grant on the Ohio Clean Marinas Program which has certified 40 Ohio Clean Marinas since the program began in 2005.
- Awarded four new Lake Erie Watershed Coordinator Grants. Currently three active grants fund the implementation of State Endorsed Watershed Action Plans and 10 grants fund the development of these plans for other sub-watersheds.

The OCM provides office space and salary for the CNPCP project coordinator (staff member of the ODNR Division of Soil and Water Conservation) and provides funding for the above projects.

Lake Erie Shore Erosion Management Plan (LESEMP)

The LESEMP is a voluntary, non-regulatory initiative developed by ODNR's Office of Coastal Management, Division of Geological Survey and Division of Wildlife to aid communities and property owners with their efforts to control erosion along the Lake Erie shore. By viewing erosion on a regional scale, the LESEMP promotes adoption of a regionally based plan outlining successful means of controlling erosion. Using a regional approach, LESEMP products are able to incorporate several characteristics of the coast, including shore and nearshore geology, and habitat for many species.

In 2008, a Needs Assessment to gather property owners' and local officials' viewpoints on erosion and the greatest needs associated with addressing erosion was finalized. Ashtabula County was chosen for the development and testing of the first set of erosion control recommendations. The OCM and our partners are working with Ashtabula County officials and other stakeholders to ensure the recommendations fit the character and needs of the coastal communities.

For more information select "CNPCP" or "LESEMP" under "**Programs**" in the top navigation at: ohiodnr.com/coastal.



The Office of Coastal Management seeks to maintain and enhance its existing grants and business functions while improving efficiency, effectiveness and customer service as opportunities arise.



2008 Accomplishments

- Administered the annual National Oceanic and Atmospheric Administration grant to the Ohio Coastal Management Program.
- Received the *2008 Ohio Sea Grant Partnership Award* in recognition of the OCMP's role as, "a key partner and leader of our research, education and outreach efforts focusing on the economy, environment and education, and Ohio's most valuable natural resource, Lake Erie."
- Awarded five Coastal Management Assistance Grants and 17 Core Discretionary Grants (see pages 13 to 17 for a complete listing of grants and budget information). Closed-out 22 grant projects commencing in previous years.
- Administered three Coastal and Estuarine Land Conservation Program grants with five property acquisitions completed.
- Organized and facilitated four quarterly meetings and numerous subcommittee and executive meetings, and provided general support to the Coastal Resources Advisory Council. The council is the public voice for formal recommendations on improvements to the OCMP.
- Recommended individuals to fill six vacant seats on the Coastal Resources Advisory Council.
- Developed and distributed quarterly report summaries of Office of Coastal Management and Ohio Coastal Management Program activities.
- Finalized the upgrade of the regulatory filing system which increases efficiency in filing and retrieval needs.
- Finalized and began the implementation of the Office of Coastal Management Strategic Plan for 2008-2013.
- Responded to recommendations that resulted from NOAA's triennial review of the Ohio Coastal Management Program as set forth in Section 312 of the Coastal Zone Management Act.
- Continued recycling of paper, cardboard and aluminum products and partnered with a local vendor to haul away recycling at no cost to the office.
- Provided GIS/mapping services to local and state partners.
- Trained staff in CAD (computer aided design).
- Drafted an Emergency Operations Plan for the office.

Working with our public and private partners, we will attain a healthy Lake Erie region with vital ecosystems and prosperous coastal communities.

Our Vision for the Lake Erie region

Office Functions

Approval of the Great Lakes Compact

A comprehensive management framework for achieving sustainable water use and resource protection came to fruition on October 3, 2008, with the presidential signing of a joint resolution approving the Great Lakes-St. Lawrence River Basin Water Resources Compact.

Following five years of negotiations, the governors of the eight Great Lakes states reached agreement on the Compact in December 2005. During 2007 and 2008, the state legislatures of Illinois, Indiana, Michigan, Minnesota, New York, Ohio, Pennsylvania and Wisconsin ratified the Compact.

The ODNR Division of Water is Ohio's lead agency focused on the Compact initiative. The Ohio Coastal Management Program funded several grants to assist in Ohio's participation in compact formation and approval.

The Great Lakes are a national treasure—a globally unique and important environmental resource. The Compact will help ensure that the Lakes are used in a sustainable manner in order to continue to provide benefits to all.

Key Points of the Compact:

- Economic development will be fostered through sustainable use and responsible management of Great Lakes waters.
- In general, there will be a ban on new diversions of water from the Great Lakes but limited exceptions could be allowed in communities near the Lakes when rigorous standards are met.
- The States will use a consistent standard to review proposed uses of Great Lakes water. The States will have flexibility regarding their water management programs and how to apply this standard.
- Regional goals and objectives for water conservation and efficiency will be developed, and they will be reviewed every five years. Each State will develop and implement a water conservation and efficiency program that may be voluntary or mandatory.

To learn more and read the complete Great Lakes Compact language:

1. Visit: **www.ohiodnr.com/coastal**
2. Select "**Coastal A-Z**" in the left navigation Quick Links.
3. Select "**G**" or scroll down to "**Great Lakes Compact.**"



The Office of Coastal Management coordinates with and seeks support from agencies and groups at the local, state, federal and international levels in the effective implementation of the Ohio Coastal Management Program.



Coastal resource management involves many complex issues that reflect the Lake's dynamic personality. Agencies at all levels must work together to achieve the goal of creating a healthy coastal environment.

Partnerships Improve Lake Erie

Partners' 2008 Accomplishments

Ohio Lake Erie Commission

The Ohio Lake Erie Commission was created to preserve Lake Erie's natural resources, enhance its water quality, and promote economic development in the region. Commission members include the director of the ODNR who serves as the commission's chair and the directors of the departments of Transportation, Development, Health, Agriculture and the Ohio Environmental Protection Agency. In 2008 the Commission:

- Released the *2008 Lake Erie Protection & Restoration Plan* and funded the quarterly Lake Erie Protection Fund grants as the cornerstones of the Commission's mission to improve Lake Erie. The OCM is ODNR's lead representative on these two projects. Since 1993, the Protection Fund has awarded more than \$8 million in grants across Ohio's Lake Erie Watershed.
- Organized the 8th annual *Ohio Coastweeks* celebration from September 12 through September 21. *Ohio Coastweeks'* theme, "I can help Lake Erie" is part of a national celebration of the nation's waters and shores encouraging people to be part of the solution and not the pollution that finds its way to the lake. The debris collected at Ohio's cleanups and throughout the world is recorded on data cards and submitted to the Ocean Conservancy as part of their International Coastal Cleanup program.
- Endorsed the first Lake Erie Balanced Growth Program community plan. The program helps communities define areas to support development and areas to support conservation in order to assure long-term economic competitiveness, ecological health and to improve the quality of life within the Lake Erie watershed. The Cuyahoga River Community Planning Organization led the development of the *Chippewa Creek Balanced Growth Plan*, funding for which came in part from an OCM Coastal Management Assistance Grant. The OCM also provides weekly staff support to assist the four pilot communities in their balanced growth development plans.

For more information about the Ohio Lake Erie Commission and their projects visit: lakeerie.ohio.gov.

Partnership Projects

Ohio Clean Marinas Program

The Ohio Sea Grant College Program continues the implementation of the Ohio Clean Marinas Program in partnership with the ODNR divisions of Soil and Water Conservation (Ohio Coastal Nonpoint Pollution Control Program) and Watercraft, with additional funding and support provided by the ODNR Office of Coastal Management. During 2008:

- Four Lake Erie marinas implemented best management practices to be certified as “Clean Marinas.” With 40 Certified Clean Marinas, Ohio leads the Great Lakes states in this effort. Every Certified Clean Marina pledges to reduce pollution inputs to Lake Erie and helps lessen the environmental footprint of the recreational boating and marine industry.
- The Shrink Wrap Recycling Program collected more than 335,000 pounds of plastic shrink wrap used in boat storage from more than 100 Ohio Lake Erie marinas. This is a 25 percent increase over 2007 collections.
- More than 100 Ohio boaters learned about best boating practices and took the pledge to become “Clean Boaters.”

For more information about the Ohio Clean Marinas Program visit:
ohioseagrant.osu.edu/cleanmarinas

Ohio Coastal Training Program

The Ohio Coastal Training Program was a major sponsor and collaborating partner for the 2008 Northeast Ohio Stormwater Conference attended by nearly 400 elected officials, municipal staff and engineers. The conference featured dozens of technical sessions on stormwater science and policy including the pollutant removal performance of stormwater treatment practices by the NOAA-funded University of New Hampshire Stormwater Center. Ninety-five percent of those responding to the conference evaluation survey said they gained new information that they intend to apply in their work or decision-making.

The Ohio Coastal Training Program provides science-based tools and training to help professionals and community leaders make decisions with Lake Erie stewardship in mind. The program leverages the resources and expertise of ODNR’s Old Woman Creek National Estuarine Research Reserve and Office of Coastal Management, Ohio Sea Grant College Program, Ohio Lake Erie Commission, and others to provide quality training targeted to local needs throughout northern Ohio.

For more information, select “Coastal Training Program” under “**Programs**” in the top navigation at ohiodnr.com/coastal.



Beach cleanups are a part of the annual Coastweeks celebration organized by the Ohio Lake Erie Commission.

The Office of Coastal Management receives approximately \$2 million annually from the National Oceanic and Atmospheric Administration to implement the Ohio Coastal Management Program. This money is matched on a 1:1 basis with non-federal funds.

Since 1998, the Office of Coastal Management has annually awarded approximately \$1 million in grants to help implement the 41 management policies outlined in the Ohio Coastal Management Program Document. The total annual amount awarded varies.

There are four primary types of grants through which state and local partners obtain coastal funds: the State Pass-through Program; NOAA Section 309 Enhancement Grant Program; Coastal Management Assistance Grant Program; and Coastal and Estuarine Land Conservation Program.

The chart on page 15 lists grants awarded by the OCM in calendar year 2008 from one or more fiscal years' funding. The grants are organized by type of project. To learn more about projects funded in part by grants issued through the Ohio Coastal Management Program and to download grant application materials, visit www.ohiodnr.com/coastal and select "Grants."



Improvements to and in the coastal area can sometimes be costly. To help overcome funding obstacles and aid coastal communities, the Office of Coastal Management administers various grant programs.

Coastal Grants: More than \$34 million awarded

Grants Awarded in 2008

Area or County	Project Description	Grantee	Grant Amount	Total Project Cost
Lake	Chagrin River's Anchor Island Protection Project	Eastlake Port Authority	\$100,000	\$220,000
Ottawa	Meadowbrook Marsh Public Access Trail & Boardwalk	Danbury Township	\$50,000	\$103,000
Erie	Nautical Archaeology Workshop and Shipwreck Survey	Great Lakes Historical Society	\$20,000	\$42,625
Lake Erie Watershed	Secondary Education Website Program	ODNR - Natural Areas & Preserves	\$7,568	\$15,136
Lake Erie Watershed	Ohio Clean Marinas Program	ODNR - Soil and Water	\$75,000	\$347,732
Lorain	Elyria Greenway and Trail Comprehensive Plan	City of Elyria	\$19,000	\$38,000
Ashland	Ground Water Pollution Potential in Ashland County	ODNR - Water	\$18,045	\$36,098
Multiple Counties	Ground Water Potentiometric Surface Mapping in Ottawa, Henry, Putnam and Allen counties	ODNR - Water	\$35,147	\$70,305
Multiple Counties	Water Quantity Portage River	ODNR - Water	\$30,918	\$61,836
Ottawa	East Harbor Shore Erosion Study	ODNR - Parks and Recreation	\$16,134	\$32,268
Ashtabula	Geneva State Park Sand By-Pass Feasibility Study	ODNR - Parks and Recreation	\$25,000	\$53,351
Lake Erie Watershed	Wind Energy Wildlife Guidelines & Offshore Impacts FY09	ODNR - Wildlife	\$26,000	\$26,000
Lake Erie Watershed	Lake Erie Watershed Habitat GIS Coordination	ODNR - Natural Areas & Preserves	\$60,000	\$60,000
Erie	Inventory and control of invasive plants	ODNR - Natural Areas & Preserves	\$82,116	\$164,899
Erie	Old Woman Creek and Huron River Watershed Investigation	Erie County Health Department	\$42,957	\$87,329
Ashtabula	Ashtabula River Watershed Coordinator	ODNR - Natural Areas & Preserves	\$70,500	\$143,033
Lake Erie Watershed	Lake Erie Dams-Protection of Water Quality	ODNR - Soil and Water Conservation	\$26,210	\$52,420
Lake Erie Watershed	Lake Erie Resource Protection & Watershed Management	ODNR - Soil and Water Conservation	\$43,750	\$87,500
Lake Erie Watershed	Rainwater and Land Development Manual Update	ODNR - Soil and Water Conservation	\$29,000	\$58,000
Lake Erie Watershed	Lake Erie Irrigation Water Management	ODNR - Soil and Water Conservation	\$40,992	\$81,984
Lake Erie Watershed	Non Point Pollution	ODNR - Soil and Water Conservation	\$42,000	\$84,000
Lake Erie Watershed	Implementation of the Great Lakes Compact	ODNR - Water	\$10,259	\$10,259
TOTALS			\$880,596	\$1,875,775

Grant Type, Total Amount Awarded in Category (Percent of TOTAL Grants Awarded)

Acquisition \$110,000 (12.5%)

Construction \$50,000 (5.7%)

Education \$102,568 (11.7%)

Planning \$103,110 (11.7%)

Research/Monitoring \$127,134 (14.4%)

Restoration \$82,116 (9.3%)

Watershed Planning \$305,668 (34.7%)

Nationally, the 34 federally approved state and territory Coastal Zone Management Programs receive federal funds to assist efforts to protect, restore and responsibly develop the nation's important and diverse coastal communities and resources.

In fiscal year 2008, the National Oceanic and Atmospheric Administration (NOAA) distributed \$68.3 million to states and territories for implementation of coastal management programs, including funding for Coastal Nonpoint Pollution Control Programs.

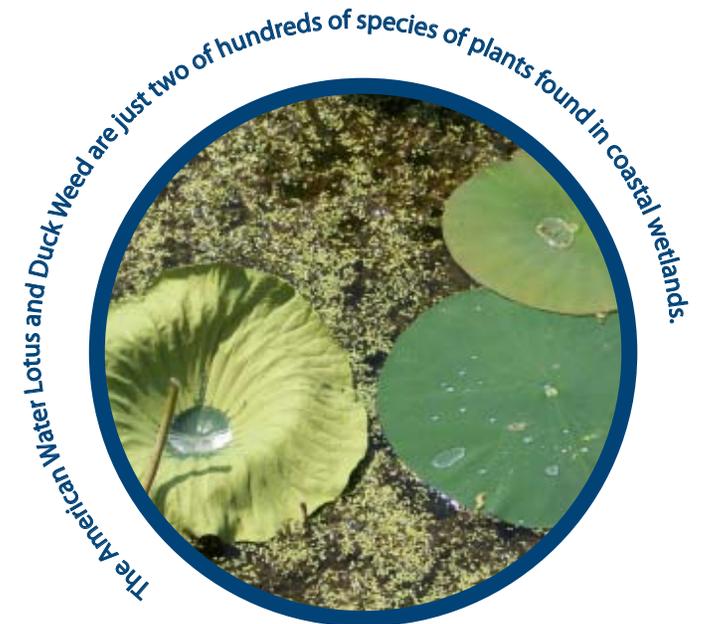
In state fiscal year 2008, NOAA provided a grant of \$2.079 million to help support the Ohio Coastal Management Program. Federal Coastal Zone Management funds provided to states and territories require a 100 percent non-federal match. Ohio's non-federal matching funds come from a variety of sources, including:

- Royalties from the mining and removal of sand, salt and other minerals and substances from and under the bed of Lake Erie.
- Rental payments for submerged lands leases.
- Match dollars from awarded state and local project grants.

The Office of Coastal Management does not receive any General Revenue Funds from the state of Ohio.

Fifty percent of funds collected for the leasing of Lake Erie submerged lands are returned to the local community from which they came. This is just another way the Ohio Coastal Management Program supports coastal communities.

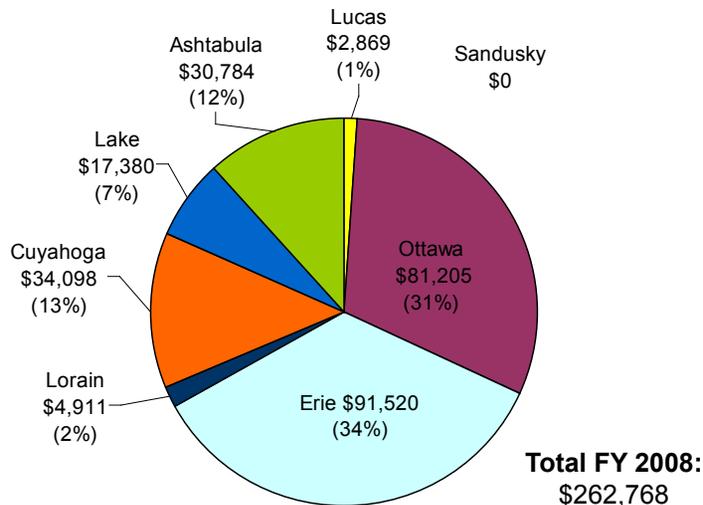
Enriching Coastal Communities



Budget and Funding FY 2008 (July 1, 2007 to June 30, 2008)

Source	Amount
Base Program Funds: Coastal Zone Management, Section 306	\$1,899,000
Program Enhancement Funds: Coastal Zone Management, Section 309	\$180,000
State and Other Matching Funds: Fund 5140, Lease Revenue & other match	\$1,899,000
Total (State FY 2008)	\$3,978,000

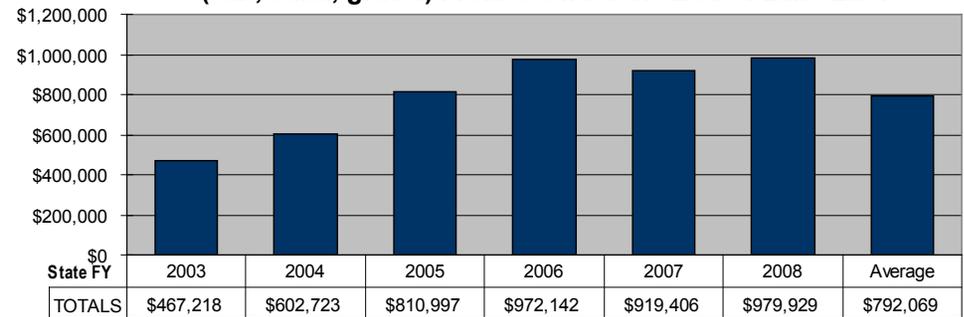
FY 2008 Lease \$ Returned by Coastal County*



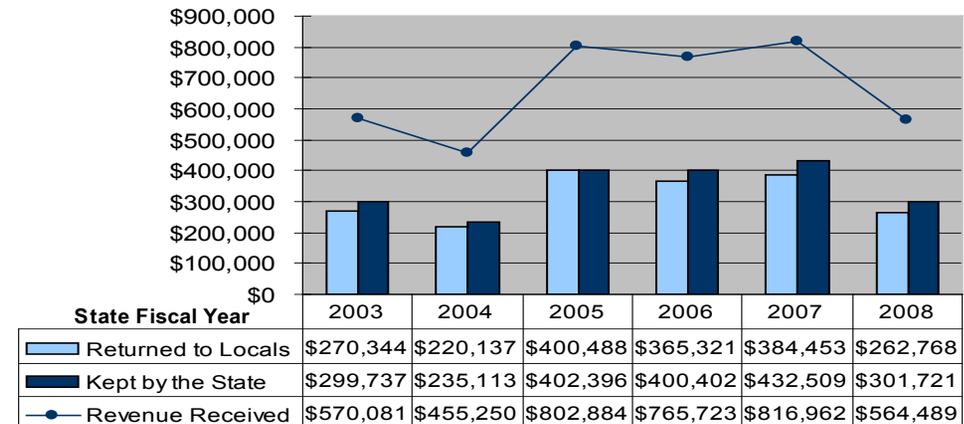
*FY08 returns were collected during FY07. FY07 returns were collected in FY06, etc.

+The Revenue Received amounts indicate the total amount collected in the previous fiscal year that was dispersed in the fiscal year of the column header.

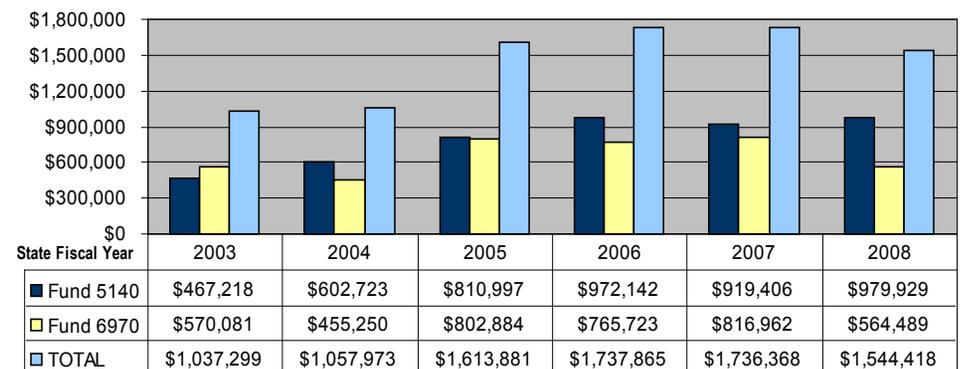
Fund 5140: State FY Royalties for Mining Mineral Resources (salt, sand, gravel) From & Under the Bed of Lake Erie.



Fund 6970: State FY Revenue from Approximately 800 Leases**



State FY Totals of Fund 6970 (Leases) + Fund 5140 (Royalties)



Fresh Water: Lake Erie

Lake Erie is the shallowest, southernmost, warmest, most biologically diverse and most productive of the five Great Lakes. Smallest by volume, Erie is the fourth largest Great Lake in total surface area and is in the top 15 largest lakes in the world. With an average depth of only 62 feet, the lake warms rapidly in the spring and summer and frequently freezes in winter.

Lake Erie is comprised of three basins: the Western (Toledo to Sandusky, average depth of 30 feet), the Central (Sandusky to Erie, Pa., average depth of 60 feet), and the Eastern (Erie, Pa. to Buffalo, average depth of 80 feet). Each basin has distinctive features such as the Western Basin being the warmest in the summer and the first to freeze in the winter.

Lake Erie was the first modern Great Lake to form after the retreat of the glaciers. Of the Great Lakes, Erie is exposed to the greatest effects from urbanization and agriculture. Because of the fertile soils surrounding the lake, the area is intensively farmed. The lake receives runoff from the agricultural area of southwestern Ontario and parts of Ohio, Indiana and Michigan. Seventeen metropolitan areas with populations over 50,000 are located within the Lake Erie basin, making it the second most densely populated Great Lake second to Lake Michigan.

Lake Erie is a dynamic body of water noted for the ferocity of its storms. Waves, currents, shore erosion and flooding are all natural occurring events which must be addressed in coastal areas. The same areas are major tourist destinations with visitors directly spending more than \$10.7 billion annually generating \$430 million in state taxes and \$320 million in local taxes, according to a Ohio Department of Development, Division of Travel and Tourism 2007 study.

Elevation: 573.4 feet IGLD 1985
Length: 241 miles
Breadth: 57 miles
Coast Length: 871 miles
Ohio's Coast: 312 miles
Average Depth: 62 feet
Maximum Depth: 210 feet
Volume: 116 cubic miles
Water Area: 9,910 sq. mi.
Land Drainage Area: 30,140 sq. mi.
Retention Time: 2.6 years
Outlet: Niagara River and Welland Canal



Ohio Department of Natural Resources Office of Coastal Management

105 West Shoreline Drive
Sandusky, Ohio 44870

Tel: 419-626-7980

Toll Free: 888-Ohio-CMP

Fax: 419-626-7983

coastal@dnr.state.oh.us

www.ohiodnr.com/coastal

Governor: Ted Strickland

Director: Sean D. Logan

Chief: John Watkins, P.E.

This report was developed by the ODNR Office of Coastal Management with financial assistance provided by the Coastal Zone Management Act of 1972, as amended, in award number NA08NOS4190434 administered by the Office of Ocean and Coastal Resource Management, National Oceanic and Atmospheric Administration. The statements, findings, conclusions and recommendations are those of the author(s) and do not necessarily reflect the views of NOAA or the Department of Commerce.

Learn more about Lake Erie at www.ohiodnr.com/coastal.