

Ohio Department of Natural Resources Office of Coastal Management

Duties, Functions, 2010 Year in Review & the Status of
Ohio's Lake Erie Coastal and Watershed Resources



Our Mission



“Achieve a balance between use and preservation of Lake Erie’s coastal resources, in collaboration with our partners, by effectively administering the Ohio Coastal Management Program.”

To help balance the uses of Lake Erie’s resources with sustaining a healthy environment, the Office of Coastal Management (OCM) administers the federally approved Ohio Coastal Management Program (OCMP). A summary of the OCMP is contained on page 4.

OCM’s responsibilities include education, outreach, resource management, grants administration and regulatory oversight in areas of the OCMP. These responsibilities are codified in Ohio Revised Code §1506 and Ohio Administrative Code §1501-6.

Contact Us:

105 West Shoreline Drive
Sandusky OH 44870
www.ohiodnr.com/coastal

coastal@dnr.state.oh.us
1.888.OhioCMP (toll free)
419.626.7980 (tel)

Ohio Department of Natural Resources Office of Coastal Management

Being connected to the daily workings of the coast, the resources and the people who live, work and play in Ohio's Lake Erie region is of vital importance to our constituents.

This is why the Office of Coastal Management is located on Lake Erie - making it unique among Ohio Department of Natural Resource divisions and offices. OCM is the only division/office headquartered outside of Columbus.

The importance of being on the coast is realized daily as coastal and watershed communities, managers, businesses and residents utilize the office to voice concerns, get answers and share information. The office's location in Sandusky also allows staff to fill requests for on-site technical assistance, presentations to civic groups and programs for school children, property owners and consulting professionals.

Coastal employees are connected to the communities in which we serve - building relationships and strengthening the effectiveness and efficiency of efforts to improve Ohio's coastal resources.

Coastal Staff (by Section)

Administration

John Watkins, P.E. - Chief

Gene Wright - Planner

Elizabeth Everhard - Executive Secretary

Tiffany Wild - Office Assistant

Engineering

Deborah Beck, P.E. - Section Manager

Mark Cencer, P.E. - Engineer

Jim Park, P.E. - Engineer

Bridget Stefan - Administrative Assistant

Jason Trapp, E.I.T. - Engineer

Fiscal

Joyce Hackett - Fiscal Officer/Manager

Lynnette Gilbert - Grants Coordinator

Christine Shaw - Fiscal Specialist

Information

Steve Lewis - Section Manager & GIMS Administrator

Brenda Culler - Public Information Officer, Internet & Education Coordinator

Brian George - GIMS Specialist

Cynthia Hendrickson - Public Information Specialist

Lands

Patrick Ernst, P.S. - Section Manager

Timothy Hozalski - Survey Tech I

Kimberly Lagrou - Real Estate Specialist

Anthony Leimeister - Survey Tech 2

Jarrold Schnell - Survey Tech 3

Dennis Waina - Property Mgmt Specialist

Network

Steve Holland, MPA - Section Manager & Federal Consistency Coordinator

Yetty Alley - Coastal Grants Coordinator

Katie L. Cade - Records Mgmt Officer

Ohio Coastal Manag



The Office of Coastal Management administers the Ohio Coastal Management Program (OCMP) which was federally approved on May 16, 1997. The program integrates management of Ohio's Lake Erie coastal area in order to preserve, protect, restore and enhance its valuable and sometimes vulnerable resources.



The OCMP is a cooperative endeavor of the state and its political subdivisions. The OCMP sets forth a framework for government action through the establishment of policies in the nine issue areas listed on page 5. The OCMP describes the statutory and regulatory underpinnings of these policies and how improved management will be accomplished.

In addition to the policy areas, the OCMP document describes

- The natural history and geographical setting of Lake Erie and the lake's present status
- The extent of Ohio's Designated Coastal Management Area
- Program organization
- Special management areas
- Federal consistency
- The erosion mitigation process
- Shorefront access and protection planning
- The energy facility planning process.

Learn more:

OCMP Summary Page

www.ohiodnr.com/tabid/9371/default.aspx

OCMP Document Download Page

www.ohiodnr.com/tabid/9260/default.aspx



ement Program

The nine issue areas and 41 policies in the Ohio Coastal Management Program are listed below. Those in blue are enforceable. The document, chapters and policies may be downloaded at www.ohiodnr.com/tabid/9260/default.aspx

ISSUE AREA

policy # - Policy Name

policy # - Policy Name Enforceable via Ohio Revised Code

COASTAL EROSION & FLOODING

- 1 - Lake Erie Coastal Erosion Area Management
- 2 - Shore Erosion Control
- 3 - Floodplain Management
- 4 - Flood Protection & Mitigation
- 5 - Shore Erosion & Flood Hazard Mitigation Assistance

WATER QUALITY

- 6 - Water Quality
- 7 - Environmental Contaminants: Prevention & Emergency Response
- 8 - Nonpoint Source Pollution
- 9 - Potable Water Supply
- 10 - Area of Concern Remedial Action Plans
- 11 - Ground Water

ECOLOGICALLY SENSITIVE RESOURCES

- 12 - Wetlands
- 13 - Natural Areas & Features
- 14 - Rare & Endangered Species
- 15 - Exotic Species

PORTS & SHORE AREA DEVELOPMENT

- 16 - Public Trust Lands
- 17 - Dredging & Dredged Material Disposal
- 18 - Local Lakeshore Development
- 19 - Lake Erie Ports
- 20 - Transportation Facilities

RECREATION AND CULTURAL RESOURCES

- 21 - Lakeshore Recreation & Access
- 22 - Lake Erie Beaches & Public Bathing
- 23 - Recreational Boating
- 24 - Fishing & Hunting
- 25 - Surplus Public Property
- 26 - Preservation of Cultural Resources

FISH & WILDLIFE MANAGEMENT

- 27 - Fisheries Management
- 28 - Fisheries Research & Interstate Cooperation
- 29 - Wildlife Management

ENVIRONMENTAL QUALITY

- 30 - Air Quality
- 31 - Hazardous, Solid & Infectious Waste Management
- 32 - Marina Facilities
- 33 - Visual & Aesthetic Quality

ENERGY & MINERAL RESOURCES

- 34 - Energy Facility Siting
- 35 - Energy Resource Storage & Transshipment
- 36 - Oil & Natural Gas Drilling
- 37 - Offshore Mineral Extraction
- 38 - Surface Mining

WATER QUANTITY

- 39 - Water Diversion
- 40 - Lake Erie Water Levels
- 41 - Water Management



United Approach



OCM works with many partners including counties, communities, port authorities, watershed groups, conservation districts, non-governmental organizations and those who live, work and play in and along Lake Erie.



Ohio's Coastal Counties - 2010 statistics

Lucas County

Land Area: 340.4 sq. mi. | Lake Area: 159,405 acres
Coast: 25 miles | Public Access: 6.6 miles @ 15 sites

Ottawa County

Land Area: 255.1sq.mi. | Lake Area: 203,700 acres
Coast: 94 miles | Public Access: 14.4 miles @ 30 sites

Sandusky County

Land Area: 409.2 sq.mi. | Lake Area: 3,468 acres
Coast: 13 miles | Public Access: 3.5 miles @ 1 site

Erie County

Land Area: 254.5 sq.mi. | Lake Area: 236,741 acres
Coast: 68 miles | Public Access: 9.6 miles @ 39 sites

Lorain County

Land Area: 492.6 sq. mi. | Lake Area: 284,695 acres
Coast: 23 miles | Public Access: 2.1 miles @ 15 sites

Cuyahoga County

Land Area: 458.3 sq. mi. | Lake Area: 515,255 acres
Coast: 30 miles | Public Access: 6.1 miles @ 26 sites

Lake County

Land Area: 228.2 sq. mi. | Lake Area: 475,822 acres
Coast: 31 miles | Public Access: 6.1 miles @ 27 sites

Ashtabula County

Land Area: 702.7 sq. mi. | Lake Area: 411,623 acres
Coast: 28 miles | Public Access: 3.9 miles @ 11 sites

(in digital copies of this document, select the county name above to visit that county's OCM Webpage)



Working together . . .

Ohio's Coastal Management Program has a national reputation when it comes to Lake Erie – Working with others to get the job done.

This work ethic has been featured as a role model for other coastal states' coastal programs to follow. For example, two national trade magazines featured stories on how three NOAA-funded agencies have partnered with the Ohio Lake Erie Commission to make great strides in Lake Erie education and outreach. The stories were in the April edition of *Coastal Management News* from NOAA's Office of Ocean and Coastal Resource Management and the September/October 2010 edition of *Coastal Services Magazine* from NOAA's Coastal Services Center. More information about this education effort is included in "Knowledge Shared" on page 31.

In 2010, OCM continued the tradition of a unified approach to improve Lake Erie by leading or supporting numerous projects including:

- Organizing several inter-agency meetings focused on methods to better coordinate the review of regulatory applications for Lake Erie projects, with the goal of increased efficiency and predictability for applicants.
- Hosting numerous meetings with the U.S. Army Corps of Engineers to explore ways to more quickly and effectively implement federal projects planned for Ohio's coastal area.
- Continuing to serve on the Old Woman Creek Advisory Council and the Ohio Coastal Training Program Executive Committee.
- Serving on the Ohio Clean Marinas Program advisory board and coordinating various outreach and education events with Ohio Clean Marinas Program staff.
- Participating in NOAA's monthly Great Lakes Coastal Management Programs decision-making process and NOAA's Federal Consistency Workshop for Great Lakes States.
- Participating in meetings of the Ohio Wind Working Group and on the Environmental and Website/ Outreach teams.
- Creating maps and digital data sets for a variety of constituents and customers including watershed groups and wind energy interests.
- Being a core participant in meetings and summits at the national, state and local level to discuss dredging and beneficial reuse of dredged material and regional sediment management. This includes participating on the Cleveland and Toledo harbors Dredge Task Force groups.
- Serving as the liaison between the state of Ohio and the Washington, D.C.-based Coastal States Organization and participating in various national CSO-workgroups.



United Approach

with our core partners



**ODNR Old Woman Creek
National Estuarine Research Reserve**
www.oldwomancreek.org

Ohio Sea Grant College Program
www.ohioseagrant.osu.edu

Ohio Lake Erie Commission
www.lakeerie.ohio.gov

**Ohio Environmental Protection Agency
Division of Surface Water**
www.epa.ohio.gov/dsw



**U.S. Army Corps of Engineers
Buffalo District Office**
www.lrb.usace.army.mil



**ODNR Divisions
Wildlife, Watercraft, Soil and Water Resources, Parks &
Recreation, Natural Areas & Preserves, Geological Survey**
www.ohiodnr.com

Ohio Clean Marinas Program
www.ohioseagrant.osu.edu/cleanmarinas

Ohio Coastal Training Program
www.ohiodnr.com/tabid/15316/default.aspx



Coastal States Organization
www.coastalstates.org

U.S. EPA Great Lakes National Program Office
www.epa.gov/greatlakes



Great Lakes Commission
www.glc.org

**National Oceanic & Atmospheric Administration
Office of Ocean & Coastal Resource Management**
www.coastalmanagement.noaa.gov

International Joint Commission
www.ijc.org

... for a better Lake Erie

Connecting with Communities

OCM staff provided technical assistance to local groups considering shore enhancement projects including:

- City of Sandusky regarding development of the Paper District Marina at the Tricolor site.
- Cleveland Cuyahoga County Port Authority regarding development of the Cleveland waterfront.
- Lorain Port Authority regarding development of the Black River waterfront and Confined Disposal Facility.
- Conneaut Port Authority Board regarding development of the inner harbor area, sand mining west of the west federal breakwater structure and available grant opportunities through ODNR.
- City of Euclid regarding a waterfront development plan to unite existing parks along a new waterfront trail.
- Lake County Planning Commission and Perry Township Park District regarding erosion control measures at Perry Park.
- Madison Township regarding public access at the township's coastal park so named.
- Perry Township regarding erosion control and public access enhancement at their township's coastal parks.
- Cleveland Metroparks by serving on their advisory committee for the Huntington Reservation Shoreline Management Master Plan.

Ohio Lake Erie Commission

To capitalize on staffing and abilities, OCM staff took on administrative support responsibilities for the commission office. This included fiscal, payroll and budget tasks, organization of and secretarial support for commission meetings, implementation of the Lake Erie Balanced Growth Initiative within the watershed as it expanded to a state-wide program, and coordination of public education efforts including Webpages and factsheets- specifically those focused on the Great Lakes Restoration Initiative (GLRI).

www.lakeerie.ohio.gov
www.balancedgrowth.ohio.gov
www.greatlakesrestoration.us

OCMP Advisory Council

OCM staff facilitated quarterly meetings of the Coastal Resources Advisory Council. The 19-member board, defined in Ohio Revised Code §1506.12, advises the director on coastal management issues and recommends policies and legislation necessary to preserve, protect, develop and restore or enhance Ohio's coastal resources. Issues brought before the council in 2010 included Coastal Erosion Area mapping, Asian carp, Ohio's Lake Erie Public Access Guidebook, the Coastal Design Manual and offshore wind energy issues.

www.ohiodnr.com/tabid/9307/default.aspx



Lake Erie is the warmest, shallowest and most biologically productive of the Great Lakes- the world's largest supply of fresh surface water.

Resource Status



Lake Erie contains ~127.7 trillion gallons of fresh water or 3 percent of the Great Lakes volume.

- Lake Erie supplies drinking water to more than 11 million people including 3 million Ohioans.



Lake Erie's watershed is the most urbanized, has the highest population density, and is the most intensively farmed of all the Great Lakes.

- One-third of the Great Lakes population lives in Lake Erie's 30,140 square-mile watershed.
- Ohio's portion of the Lake Erie Watershed is 11,649 square miles, drains all or portions of 35 Ohio counties and is home to 4.65 million residents. An estimated 2.6 million people reside in Ohio's eight coastal counties.



Ohio's Lake Erie shore and watershed include the most southerly reaches of the Great Lakes ecosystem.

- Lake Erie's coast is 871 miles long. The southernmost part of Lake Erie's and the Great Lakes' shore is just east of Huron, Ohio.
- The most southerly location of the Great Lakes watershed is in Auglaize County near Minster, Ohio, just under 10 miles south of the southeast corner of Grand Lake St. Marys.



More than 119,000 Ohio jobs are directly linked to Lake Erie-region visitors who spend more than \$10.7 billion annually generating \$430 million in state taxes and \$320 million in local taxes.

- Ports handle commodities including steel, iron ore, coal, salt and grain.
- The fishery is valued at \$800 million annually.
- One-third of Ohio's boating occurs on Lake Erie.



Water. Land. Living things.

Lake Erie, its coast and watershed are impacted by land use decisions, water use decisions, natural hazards, local and national laws, and people's actions.

Development

Coastal development and industrial, commercial and residential activities throughout the watershed can lead to point and non-point source pollution—one of the biggest challenges facing Lake Erie today. This is illustrated by the sediment plumes flowing into Lake Erie that are visible on aerial photographs and satellite imagery. When suspended, sediment can cause disruptions to aquatic life. When it settles, sediment has to be dredged from shipping/boating channels and marina facilities.

Algae/Sediment

Attached to the sediment may be excessive nutrients which unnaturally accelerate plant and algae growth in the lake. This happened in the summer of 2010 with the amount of plant growth in the water – especially in the Western Basin – higher than it has been in more than 40 years. The excessive vegetation and algal growth led to water quality problems including increasing costs for water treatment and the need to post warnings at coastal beaches. Additionally, vegetation and algae use oxygen when they die and decay. If excessive amounts of decay occurs at once, areas of oxygen depletion or “dead zones” may develop.

Impacts to Beaches

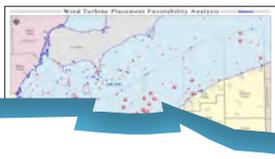
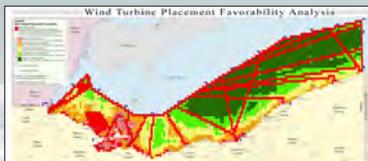
More than 85 percent of Ohio's coast is armored. Physical modifications (changes to beaches, shores and rivers) can exacerbate effects of erosion, storm surges and lake-level changes. Biological modifications of the lake have come through habitat alteration, nutrient and contaminant loading, over-harvesting of species and non-native species introduction.

Invasive Species

The intentional and unintentional introduction of non-native organisms has changed life cycles, behaviors, habitats and the abundance of organisms in Lake Erie and its watershed. Non-native species may have positive and negative impacts on the ecosystem. The threat of additional non-native species is an ongoing concern as agencies work to prevent more species, such as Asian Carp, from entering the Great Lakes ecosystem.

While new technologies and methods of observation are expanding our ability to understand Lake Erie, it is evermore apparent that people must live in ways that sustain the lakes.

OCM staff provide information and assistance to those who live, work and play in and along Lake Erie. However, it is each person's informed and responsible decisions regarding their use of Lake Erie and watershed resources that will determine the future viability of these resources.



Resource Priorities

Every five years, the status of Ohio's lake and coastal resources are assessed to determine the most pressing needs. This assessment and the strategies to address those needs are contained in Ohio's Coastal Zone Section 309 plan.

Every five years, the Section 309 assessment must be approved by NOAA for Ohio to continue to be eligible to receive this area of federal funding. The assessment includes reviewing existing authorities and programs to address concerns. The plan's strategies identify activities needed to achieve resource improvements.

In 2010, OCM staff updated Ohio's *Draft Assessment and Multi-year Strategy 2011-2015 Plan for the Section 309 Coastal Zone Enhancement Grants Program*. The update included opportunities for public input and was released for comment in early August 2010.

The 2011-2015 plan identifies four strategies (summarized in this document) that address the six priority enhancement areas of wetlands, coastal hazards, public access, cumulative and secondary impacts, Great Lakes resources, and energy & government facility siting. The full document including a 5-year budget is online: www.ohiodnr.com/tabid/20483/default.aspx



Balancing use & preservation

Strategy 1: Wind Energy

- Continue research on pelagic birds, bats & other avian species.
- Continue research on geologic conditions of Lake Erie's offshore areas.
- Use environmental and cultural research to develop guidelines for siting wind energy facilities in Ohio's coastal zone areas that are expected to have impacts on natural and cultural resources.
- Use the research and guidelines to finalize the current draft rules for leasing portions of Ohio's territory in Lake Erie for use in the production of offshore wind energy. Submerged Lands Leasing rules are in Ohio Administrative Code § 1501-6.

This strategy is expected to benefit wind energy developers and coastal resource users by increasing predictability and efficiency in the regulatory review processes while minimizing environmental impacts. Creating consistency among review standards and siting criteria across Lake Erie may then serve as a role model for offshore wind energy efforts in the entire Great Lakes region.

Strategy 2: Wetland Change Tracking and Historical Analysis

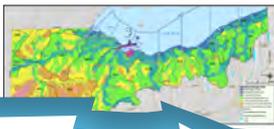
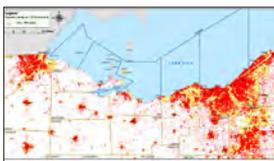
- Develop a habitat restoration plan for Ohio's coastal wetlands and develop a program to track wetland creation, restoration, mitigation and preservation activities at federal, state, local and private levels. Currently, a plan and tracking system does not exist.
- Identify historical wetland areas that could be used for current wetland mitigation and restoration.
- Add the above information to data from the recently released National Wetlands Inventory and analyze it via the use of GIS mapping technologies.

The data, GIS information and maps created as part of the wetland analysis will be shared with all groups involved. The Office of Coastal Management will also use the data to make revisions, if necessary, to our coastal grant programs.



Resource Priorities

In 2010, OCM received federal approval of Ohio's *Coastal and Estuarine Land Conservation Program (CELCP) Plan*, enabling Ohio to continue to be eligible for CELCP land acquisition grants.



CELCP was established by NOAA in 2002 to help protect coastal and estuarine lands that are considered important for their ecological, recreational, historical or aesthetic values. The federal program provides state & local governments up to \$3 million in matching funds per project to purchase coastal & estuarine lands, or conservation easements on such lands, from willing sellers.

Since the CELCP began, Ohio has secured more than \$18 million for 20 projects that leveraged more than \$35.3 million local dollars to acquire and conserve over 3,265 acres. This includes \$1.2 million in 2010 CELCP funding through the Great Lakes Restoration Initiative for the acquisition of coastal properties on Kelleys Island (Erie County) and in the village of Perry (Lake County).

Descriptions of Ohio's successfully funded CELCP projects are found online: www.ohiodnr.com/tabid/20009/default.aspx

Balancing use & preservation

Section 309 Plan continued

Strategy 3: Erosion and Sand Resource Management

- Continue the development and voluntary implementation of the Lake Erie Shore Erosion Management Plan (LESEMP) with partnering ODNR divisions. *See LESEMP description on page 23.*
- Study Ohio's sand resources and the related impacts from erosion control structures and dredging.
- Develop agreements with OCMP partners including the U.S. Army Corps of Engineers to bypass sand at federal harbors.
- Update Ohio Administrative Code rules associated with Shore Structure Permits and Submerged Lands Leases in order to provide a more streamlined and predictable authorization process.

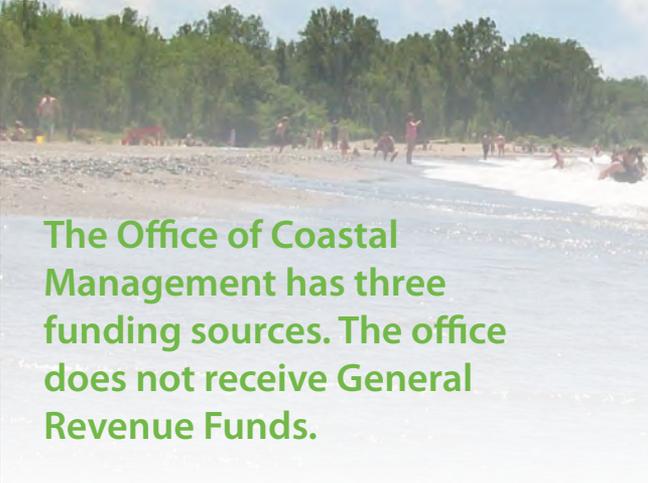
Submerged Lands Leasing rules are in OAC § 1501-6. Updates to these rules will be done in compliance with any court decisions or legislative changes that could potentially occur during the 2011-2015 Section 309 Assessment period. Shore Structure Permit rules being considered will specify submittals required, require sand monitoring/bypass plans for certain types of projects, and set review timelines.

Strategy 4: Community Waterfront Planning

- Identify elements that should be included in a local community's comprehensive management plan for areas along Ohio's coast.
- Create and make available a model guidance document for communities' use in developing comprehensive waterfront plans.
- Enhance the *Ohio Balanced Growth Plan* through the development of a coastal module showcasing voluntary best management practices for Ohio's coastal communities. This module will include challenges and opportunities facing coastal communities including flooding and inundation, erosion, working waterfronts, tourism, demand for seasonal dockage, and public access to Lake Erie.

Ohio's Balanced Growth Program addresses long-term economic competitiveness, ecological health and quality of life issues. The program focuses on reducing urban sprawl, protecting natural resources and encouraging redevelopment in urban areas. The program was started by the Ohio Lake Erie Commission and funded in part by OCMP grants. The program's success within Ohio's Lake Erie Watershed led to its expansion to the rest of the state in 2010.

Learn more: www.balancedgrowth.ohio.gov



The Office of Coastal Management has three funding sources. The office does not receive General Revenue Funds.

Funding Sources



Fund #3P30: Ohio receives ~\$2 million annually from the National Oceanic and Atmospheric Administration to implement the federally approved Ohio Coastal Management Program. This money must be matched with non-federal funds on a 1:1 basis. A portion of this funding is used to award communities grants under the Coastal Management Assistance Grants program.



Fund #5140: This funding comes from royalties collected from companies mining salt under Lake Erie and from the mining of sand and gravel from the bed of Lake Erie. The amount of funding is generally based on the quantity mined.



Fund #6970: This revenue is from Submerged Lands Leases for projects occupying the territory of Lake Erie. Fifty percent of collected rentals are returned to the local jurisdiction (village, city, county or port authority). OCM staff process the invoicing for approximately 850 leases, collect the revenue and then disburse to the local communities their share of the funds.



Total SFY 2010 funding: \$4,255,914

Fund #3P30 = \$2,116,000

CZM Section 306 = \$1,869,000

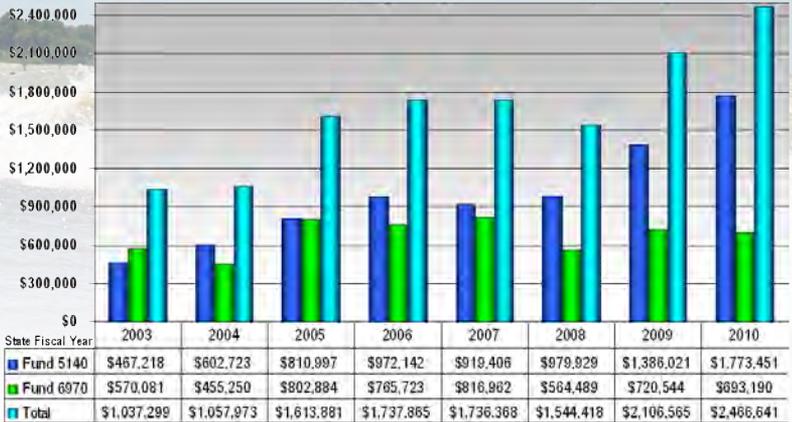
CZM Section 309 = \$180,000

CZM Section 310 = \$67,000

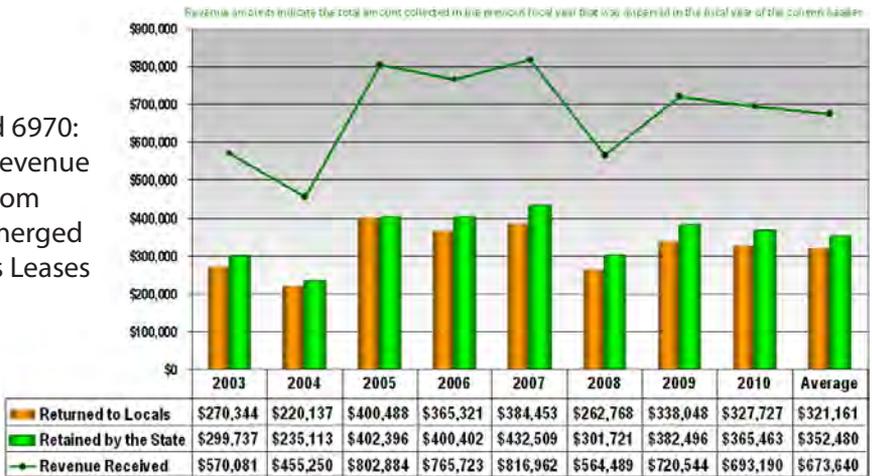
Fund #5140 = \$1,773,451

Fund #6970 = \$366,463 (after disbursement to locals)

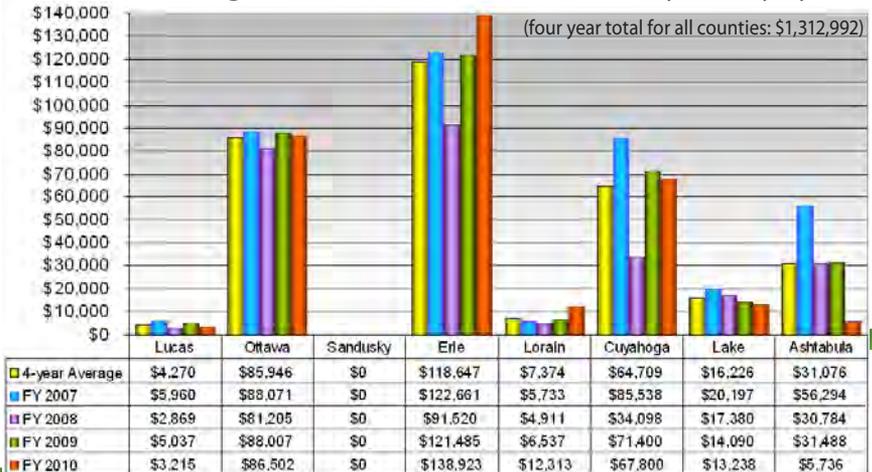
Fund 5140 (royalties) and Fund 6970 (leases): Totals for SFY 2003-2010



Fund 6970: SFY Revenue from Submerged Lands Leases



Fund 6970: Submerged Lands Lease Revenue Returns by County by SFY





The OCMP has awarded more than \$35 million in grants to improve Ohio's Lake Erie Watershed since the program was federally approved in 1997.

Grants Summary



Grants are issued for land acquisition from willing sellers, construction, planning, hazard mitigation and public access enhancement projects.

Since 1998, the Office of Coastal Management has awarded approximately \$35 million in grants to help implement policies in the Ohio Coastal Management Program. The total amount awarded varies annually. In some years, special funding has been available allowing more projects to be awarded grants.

For all fiscal years:

- 69 percent of grants (\$24,190,465) were awarded for projects in a coastal county.
- 6 percent of grants (\$2,093,763) were awarded for projects in a specific county not adjacent to Lake Erie but in the watershed.
- 25 percent of grants (\$8,724,507) were awarded for projects that benefit more than one county within the Lake Erie Watershed including those adjacent to Lake Erie and those inland.

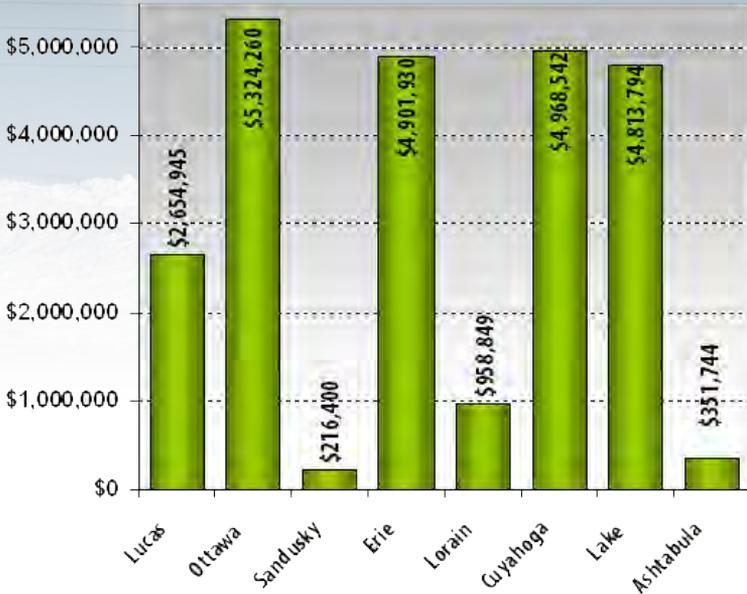
Details about all grants awarded by the OCMP are found on the OCM website by selecting "Grants" in the top navigation. In 2010, OCM awarded \$311,835 in Coastal Management Assistance Grants for nine projects.

The chart on the next page lists grants awarded in calendar year 2010 from one or more fiscal years' funding. The grants are organized by type of project.

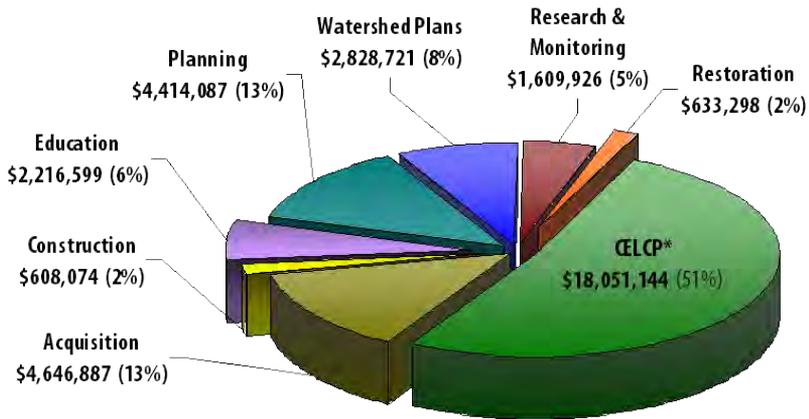




Total Grant \$ Awarded per Coastal County in SFY 1998-2010



Coastal Management Grants by Award Category County SFY 1998-2010



* CELCP stands for the Coastal & Estuarine Land Conservation Program.
 Learn more: www.ohiodnr.com/tabid/9280/default.aspx



The total amount of grant funding the OCM issued in 2010: \$2,070,167.

Grants Issued in 2010



Total value of projects the grants will fund: \$3,922,832.



Grant funds allocated to the OCM listed below are used to fund work by local communities and other ODNR staff where OCM serves as the project manager. In 2010, projects that benefit the Lake Erie Watershed in which OCM is the grantee include:

Beach Clean Up - Small Grants
\$19,723/\$25,840

Internet Mapping Server Upgrades
\$30,600/\$30,600

Regulatory Database Development
\$8,500/\$8,500

Internet Mapping Server Regulatory Upgrade
\$29,850/\$29,850

Grant Database Development
\$5,000/\$5,000



The below grants are for projects benefiting the Lake Erie Watershed

Grantee
Project Description
Grant Amount/ Project Cost

ODNR Soil & Water Resources
Lake Erie Watershed Coordinators
\$70,000/\$140,000

Alliance for the Great Lakes
Adopt-a-Beach Program
\$10,000/ \$29,874

WGTE Public Media
Connecting Science – Building Lake Erie
Literacy in the Western Basin
\$35,370/\$74,860

ODNR Soil & Water Resources
Coastal NPS Education Specialists
\$50,000/\$100,000

West Creek Preservation Committee
West Creek Action Plan Implementation –
Confluence Project
\$32,000/ \$70,000

Ohio Lake Erie Commission
Ohio's Balanced Growth Program in Lake Erie
\$52,532/\$133,295

Ohio State University Sea Grant
Ohio Clean Marinas Program
\$72,605/ \$145,625

ODNR Division of Wildlife
Investigating Annual Variability in Pelagic
Bird Densities
\$29,700/\$59,860

ODNR Division of Wildlife
Minimizing Impacts of Wind Energy on
Wildlife Resources
\$35,000/\$35,000

ODNR Division of Wildlife
2010 Great Lakes Restoration Initiative
\$40,000/\$40,000

The below grants are for projects benefiting specific county/counties

County/ies - Grantee
Project Description
Grant Amount/ Project Cost

Allen & Hancock counties - Blanchard River
Watershed Partnership
Blanchard River Watershed Coordinator
\$15,500/\$39,750

Cuyahoga County - Park Works
Whiskey Island Habitat
\$20,000/\$40,000

Defiance, Williams, Fulton & Lucas counties -
ODNR Soil & Water Resources
Ground Water Potentiometric Surface
Mapping
\$75,322/\$75,322

Erie County - Erie County MetroParks
Coastal & Estuarine Land Conservation
Program - Kelley's Island Monagan Road
Preserve \$332,500/\$665,000

Erie County - Erie County MetroParks
Vermilion River Lakeshore Preserve
\$156,553/\$313,107

Lake County - Lake Metroparks
Coastal & Estuarine Land Conservation
Program - Lake Erie Bluff Preservation Project
\$883,700/\$1,767,400

Lake County - City of Willoughby
Osborne Park/ Sunset Park Coastal
Recreational Analysis
\$5,000/\$10,500

Lucas, Henry, Portage & Huron counties -
ODNR Soil & Water Resources
Ground Water Pollution Potential Mapping
\$42,862/\$42,862

Ottawa County - ODNR Division of Parks &
Recreation
East Harbor Region Naturalist Funding
\$11,733/\$28,353



Having a healthy coast, lake and watershed, and prosperous coastal communities, is achieved through balancing the uses of ecosystem resources with their conservation.

Lakeside Living



To achieve the balance between use and preservation, working guidelines have been established to manage coastal areas. Guidelines include laws, regulations and voluntary programs.

OCM involvement includes reviewing applications for Coastal Erosion Area Permits, Shore Structure Permits, Submerged Land Leases and other regulatory authorities as outlined in Ohio Revised Code §1506 and Ohio Administrative Code §1501-6 along with initiating innovative programs to address various coastal issues.

By working together to implement voluntary programs and enforce equitable laws and rules, economic, social and environmental improvements can be achieved.

Helping Coastal Landowners

Lake Erie Shore Erosion Management Plan (LESEMP)

Erosion along Ohio's Lake Erie shore has been a noted issue for decades. The LESEMP aims to promote successful means of controlling erosion by developing recommendations that are based on regional site conditions.

In 2010, LESEMP development continued through activities including:

- finalizing a variety of documents including those detailing the geological setting, wave climate, habitat types and causes of erosion along the Lake Erie shore, and documents outlining typical erosion control methods.
- finalizing erosion mitigation recommendations for the reaches in the Ashtabula County Region.
- drafting recommendations for the Western Basin study area which extends from the eastern boundary of Mallard Club Marsh State Wildlife Area in Lucas County to the outcropping of limestone bedrock at Rock Ledge located just east of Port Clinton in Ottawa County.
- holding six public meetings to gain public input.

Required by the ORC § 1506.47, the LESEMP is offered as free technical assistance to property owners and does not contain any regulatory oversight provisions.

LESEMP documents are online:
www.ohiodnr.com/tabid/20501/default.aspx

Coastal Erosion Area Mapping

OCM assisted the ODNR Division of Geological Survey with the release of the Preliminary 2010 Coastal Erosion Area Maps, including mailing of ~900 certified letters, 2,220 non-certified letters, distributing maps to 62 public viewing locations, and organizing nine public meetings. Following the ORC, the ODNR Division of Geological Survey maps Ohio's coastal erosion areas (CEAs) while the OCM reviews applications for permits to build within the designated CEAs. The goal of the CEA program is to promote wise land use while reducing the risk of damage to or loss of life, property, possessions or infrastructure due to coastal erosion. The 2010 maps were certified in December, replacing the 1998 maps.

Learn more:
www.ohiodnr.com/CEAm

Addressing Erosion at Public Places

OCM is assisting the ODNR divisions of Parks & Recreation and Natural Areas & Preserves with environmental restoration plans for East Harbor State Park and Sheldon Marsh State Nature Preserve, respectively. Both sites have been negatively impacted by U.S. Army Corps of Engineers navigation structures. The Water Resources Development Act of 1986, as amended, allows for up to \$5 million in federal expenditures per site to restore impacted coastal areas. Federal dollars must be matched with at least 25 percent in non-federal funds.



In 2010, OCM drafted the first edition of the *Ohio Coastal Design Manual* - a tool for consultants, contractors and property owners to use in developing and implementing safe, functional, structurally sound and reasonable erosion control and lake access projects along Ohio's coast.

Lakeside Living



Through text, photos, drawings and example calculations, the *Coastal Design Manual* demonstrates how structures along the shore of Lake Erie are designed and how coastal engineering principles and surveying techniques are applied. This begins with the determination of site conditions before a structure type has been selected. This design manual focuses on the types of projects most commonly built along Lake Erie.

The manual's purpose is to have future shore structure projects along the coast balance the shared uses of Lake Erie with property owners' needs for erosion protection and benefits of accessing the lake. The design manual's companion is the Lake Erie Shore Erosion Management Plan (LESEMP).

View the Coastal Design Manual online:
www.ohiodnr.com/tabid/23074/default.aspx

Helping Coastal Landowners

OCM's 2010 Assistance also included:

- Receiving and processing applications for 26 Shore Structure Permits and recommending approval of 23 permits.
- Performing 37 technical/ environmental reviews and 27 site visits for Submerged Lands Lease Application submittals and approving 26 applications.
- Completing a technical review for an Option to Lease Application for Cuyahoga County offshore wind-energy generation pilot project by LEEDCo. This is the first offshore wind energy project being pursued in Ohio.
- Responding to 14 requests for Environmental Review comments in response to USACE public notices.
- Completing 18 requests to identify the location of the historic natural shoreline for sites that include artificially placed fill material.
- Fulfilling 112 technical assistance requests and 53 Coastal Erosion Area information requests.
- Responding to 20 complaints regarding projects along Lake Erie including the unauthorized construction of shore structures, construction of shore structures not in accordance with authorized permits, and the illegal dumping of fill material.

- Leading the development and printing of *Causes of Erosion: Surface & Groundwater* factsheet to assist property owners in minimizing with coastal erosion caused by surface and groundwater.

Online Application Notices

In 2010, OCM began posting Federal Consistency Application Notices online so the public can view project details and email feedback on federal actions affecting Lake Erie.

The Coastal Zone Management Act's Federal Consistency provision requires that federal actions having reasonably foreseeable effects on any land or water use or natural resource of Ohio's designated Coastal Management Area be consistent with the enforceable policies of the Ohio Coastal Management Program. Federal actions include federal agency activities, federal license or permit activities, and federal financial assistance to state and local governments.

Federal Consistency provides Ohio with oversight and input into federal actions affecting Ohio's coastal resources and is a mechanism to foster consultation, cooperation and coordination between applicants and state & federal agencies.

In 2010, OCM administered ~70 reviews of federal agency activities under this authority.

View online Applications Notices:
www.ohiodnr.com/tabid/20851/default.aspx



From a nature lover's pursuit of peaceful tranquility at a preserve, to a family's rambunctious day of splashing at the beach, Ohio's coastal splendors have much to offer.

In 2010, OCM staff with design assistance from the ODNR Office of External Affairs finalized a multi-year effort to catalog each public access site along Ohio's coast. The product captures Ohio's coastal access sites in a 324-page full-color printed guidebook and online companion.

Access to the Coast



Every 2-page spread in the guidebook is represented by an individual Webpage that mirrors the book, but also includes additional information including links to:

- printable maps and a PDF of each page as it appears in the guidebook,
- interactive maps and additional pictures of the site.
- beach monitoring information from the Ohio EPA (algal blooms) and Ohio Department of Health (e-coli).
- research and grants pertaining to the site.
- the local visitors bureau, chamber of commerce, and communities along with Ohio travel and tourism information.

Ohio's Lake Erie Public Access Guidebook online: www.ohiodnr.com/tabid/21033/default.aspx



Visit, Live, Work & Play.

Stretching from Toledo to Conneaut, Ohio has 164 public access sites along Lake Erie. Combined, the sites total nearly 53 miles of publicly accessible shore which is ~17 percent of Ohio's 312-mile coast.



Collectively, the sites account for over 15,000 acres and offer activities ranging from fishing, swimming, boating, hunting, biking and hiking to scenic

overlooks, bridle trails, recreational sports, historic landmarks and picnic areas.

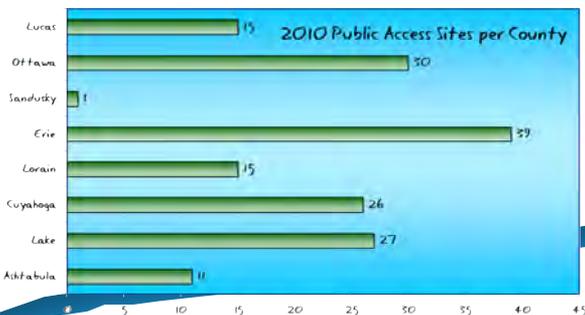
The *Lake Erie Public Access Guidebook* maps all known sites, outlines each site's amenities and serves as a tool to help you discover the perfect spot to spend a day... or even a week.

The free guidebook and companion website (see link logo bottom left) were created to encourage exploration of Ohio's shore, to help benefit coastal communities' economies and to fulfill duties assigned in Ohio Revised Code §1506 and the approved Ohio Coastal Management Program.

ORC §1506.05: "The director of natural resources shall prepare and maintain a current inventory of public access facilities and areas for the Ohio shoreline of Lake Erie, including, without limitation, shoreline parks, cultural resources, natural areas, wildlife refuges, harbors of refuge, boat launch ramps, shoreline fishing areas and beaches."

Policy 21 of the Ohio Coastal Management Program: "It is the policy of the state of Ohio to provide lakeshore recreational opportunities and public access and encourage tourism along Lake Erie."

In 2010, four additional public access sites were acquired by local entities and should open for public use in 2011. Those sites in Ottawa, Erie, Cuyahoga and Lake counties are not included in the printed guidebook or statistics on this page. A Webpage and printable PDF will be developed and posted for each site as they are opened.





Lake Erie Literacy is an understanding of Lake Erie's influences on you and your influence on Lake Erie.

Knowledge Shared



Lake Erie Literacy Principles help a person:



- Understand the characteristics, functioning and value of Lake Erie;
- Communicate accurately about Lake Erie's influence on systems and people in and beyond its watershed; and
- Make informed and responsible decisions regarding Lake Erie and the resources of its watershed.

2010 Outreach

- Gave 3 presentations at the Professional Land Surveyors of Ohio's Fall Seminar on:
 - an overview of Coastal Management and functions of Ohio's Program;
 - coastal tools for the Professional Engineer and Surveyor;
 - regulatory policy updates for the Submerged Lands Lease Program.
- Reached nearly 600 students with hands-on activities during the 49th Annual Ottawa County 5th Grade Conservation Field Day at Magee Marsh Wildlife Area and Ottawa National Wildlife Refuge.
- Regularly updated OCM's Webpages and launched social media pages. Now you can become a Facebook friend of Ohio's Lake Erie and "Like" the Ohio Coastal Management Program.
- Issued more than 20 press releases on OCM and partnership activities including the availability of grants, publications and opportunities for the public to provide input on various projects.
- With the Erie County Soil & Water Conservation District, organized a successful pilot workshop for children to participate in rain barrel construction.
- Participated in numerous outreach events ranging from hands-on displays, presentations and poster sessions to lectures, trade shows and public meetings including:
 - Earth Day Clean-ups with numerous Girl Scout troops.
 - Ohio Sea Grant's Legislative and Local Officials days in July and August.
 - Port Clinton and Sandusky city schools' learn about the earth days.
 - Cleveland Lakefront State Park's annual School Days.
 - School Days at Perry's Victory and International Peace Memorial.
 - the Ohio State Fair, and boat shows in Cleveland and Sandusky.

Public Records Requests

OCM staff annually assist ~700 people who stop in our waterfront office by providing them Lake Erie-related information. This is in addition to more than 400 requests for information and records received via phone, mail and e-mail. Requests are filled in accordance with Ohio's Sunshine Laws. While the majority of requests take a short time and limited staff hours to respond, on occasion requests for public records take large amounts of staff time. This was the case with one request for public records in 2010 which took more than 978 staff hours to complete. While multiple staff worked to fulfill the request, the number of hours worked is equivalent to one staff member working full time on the project for 6 months.

New Interactive Maps

In the fall, OCM staff began developing "Use Case Map Viewers" that allow a person to map topic-specific features on a background map of their choice. Viewers generated include:

- **Wind Turbine Placement Favorability** which hosts the thematic mapping layers used to develop the Wind Turbine Placement Favorability Analysis Map and allows users to gather comprehensive attribute information, including lake depth, lakebed sediment, fish habitat and other limiting factors.
- **Lake Erie Watershed** which hosts the datasets used in Chapter 3 of the *Ohio Coastal Atlas* including 8-, 10- and 12-digit HUC numbers, and watershed, river/stream names.
- **Lake Erie Public Access Sites** which hosts all of the public access sites that are included in the 2010 guidebook. Features allow the user to find swimming beaches, birding locations, hunting & fishing access sites, etc.

Additional online map viewers are being developed for launch in 2011. View maps at: www.ohiodnr.com/tabid/19562/default.aspx

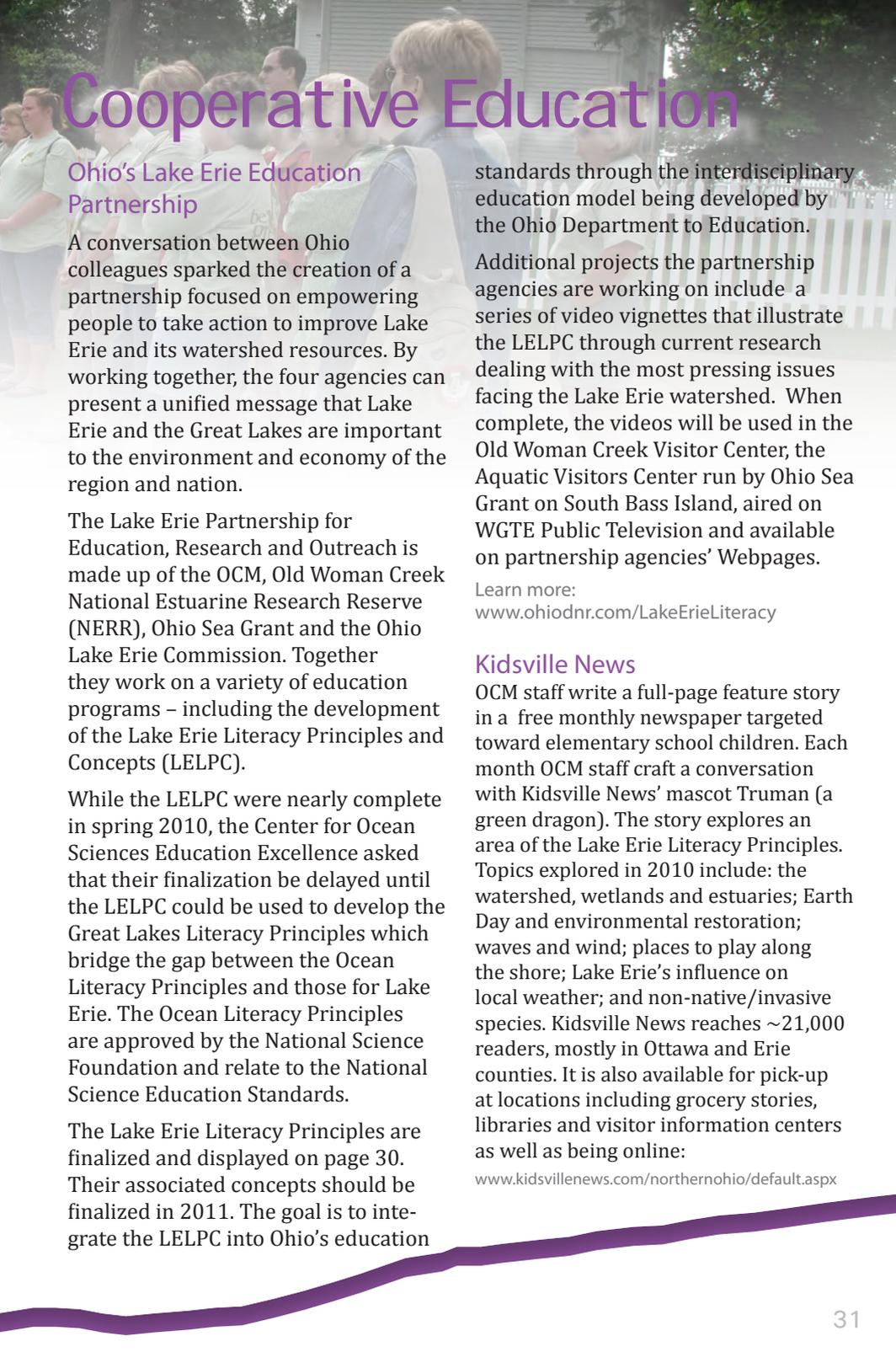


Lake Erie Literacy Principles

1. Lake Erie, one of the five Great Lakes, is a body of fresh water with many features.
2. Natural forces formed and continue to shape Lake Erie and its watershed.
3. Lake Erie influences local and regional weather and climate.
4. Water makes Earth habitable; fresh water sustains life on land.
5. Lake Erie supports a broad diversity of life and ecosystems.

Knowledge Shared

6. Lake Erie and humans in its watersheds are inextricably interconnected.
7. Much remains to be learned about Lake Erie.
8. Lake Erie is socially, economically and environmentally significant to the region and nation.



Cooperative Education

Ohio's Lake Erie Education Partnership

A conversation between Ohio colleagues sparked the creation of a partnership focused on empowering people to take action to improve Lake Erie and its watershed resources. By working together, the four agencies can present a unified message that Lake Erie and the Great Lakes are important to the environment and economy of the region and nation.

The Lake Erie Partnership for Education, Research and Outreach is made up of the OCM, Old Woman Creek National Estuarine Research Reserve (NERR), Ohio Sea Grant and the Ohio Lake Erie Commission. Together they work on a variety of education programs – including the development of the Lake Erie Literacy Principles and Concepts (LELPC).

While the LELPC were nearly complete in spring 2010, the Center for Ocean Sciences Education Excellence asked that their finalization be delayed until the LELPC could be used to develop the Great Lakes Literacy Principles which bridge the gap between the Ocean Literacy Principles and those for Lake Erie. The Ocean Literacy Principles are approved by the National Science Foundation and relate to the National Science Education Standards.

The Lake Erie Literacy Principles are finalized and displayed on page 30. Their associated concepts should be finalized in 2011. The goal is to integrate the LELPC into Ohio's education

standards through the interdisciplinary education model being developed by the Ohio Department to Education.

Additional projects the partnership agencies are working on include a series of video vignettes that illustrate the LELPC through current research dealing with the most pressing issues facing the Lake Erie watershed. When complete, the videos will be used in the Old Woman Creek Visitor Center, the Aquatic Visitors Center run by Ohio Sea Grant on South Bass Island, aired on WGTE Public Television and available on partnership agencies' Webpages.

Learn more:

www.ohiodnr.com/LakeErieLiteracy

Kidsville News

OCM staff write a full-page feature story in a free monthly newspaper targeted toward elementary school children. Each month OCM staff craft a conversation with Kidsville News' mascot Truman (a green dragon). The story explores an area of the Lake Erie Literacy Principles. Topics explored in 2010 include: the watershed, wetlands and estuaries; Earth Day and environmental restoration; waves and wind; places to play along the shore; Lake Erie's influence on local weather; and non-native/invasive species. Kidsville News reaches ~21,000 readers, mostly in Ottawa and Erie counties. It is also available for pick-up at locations including grocery stores, libraries and visitor information centers as well as being online:

www.kidsvillenews.com/northernohio/default.aspx



To ensure the continued availability of Lake Erie resources, people must learn to live in ways that sustain the lakes. Individual and collective actions are needed to effectively conserve and manage lake resources for the benefit of all.

Everyday, Improve.



The document is available online:
www.ohiodnr.com/tabid/9376/default.aspx

More 2010 Accomplishments

OCM's goal is to continually improve service to our constituents. Some of the many ways we did this in 2010 include:

- Organizing grant workshops to present information on funding opportunities offered by the OCM and the ODNR divisions of Soil & Water Resources, Parks & Recreation and Watercraft, the Ohio Lake Erie Commission and the Ohio Department of Development. This coordination offers constituents a one-stop approach to learning about grant funding opportunities.
- Developing and implementing a standardized review process for reimbursements to coastal grant recipients. This was done to address problems with timely submission of, and errors on, grant recipient reports, and problems with draws and reimbursement requests.
- Implementing COGNOS accounting to improve efficiencies in tracking and reporting of OCM's financial status. This accounting system reduces cost by minimizing time used to generate reports, enabling more self-service, allowing data to be more easily shared and reducing the amount of technical support needed.
- Developing OCM's first Business Plan and updating and distributing the OCM Emergency Management Plan
- Coordinating with the ODNR Division of Geological Survey (DGS) on efforts to obtain information on Salt Mine Lease agreements and document the process OCM, DGS and the State Auditor use to review lease requirements and certify revenue-received reports. OCM also created an internal control process to assist with monitoring revenue, reports and notifications. (see Fund 5140)
- Developing procedures for invoicing and collecting revenue for ~850 Submerged Land Leases for areas in the territory of Lake Erie. Note: OCM is the first division/office in the ODNR to use the Ohio Administrative Knowledge System Billing Module. (see Fund 6970)
- Facilitating quarterly meetings of the Integrated Management Team (IMT) and the Policies and Programs Committee (PPC) using video-conferencing in an effort to maximize administrative efficiency and increase collaboration on Lake Erie issues among agencies. The IMT coordinates OCMP activities within ODNR. The PPC coordinates coastal activities among Ohio agencies.
- Enhancing OCM's Coastal Regulatory Database to increase efficiencies in records searches.
- Reviewing 185 applications and conducting 30 interviews for four jobs including three newly created positions to implement state of Ohio policy directives and decisions of the *Merrill* case which was filed in Lake County court in 2004 and at the end of 2010 was before the Ohio Supreme Court. (see No. 2009-09-1806)
- Training seven new staff members and organizing required staff trainings including ethics training.



Exploring the future



Understanding Lake Erie is more than a matter of curiosity. Exploration, inquiry and monitoring promote better understanding and protection of Lake Erie ecosystems, resources and processes. The future sustainability of lake resources depends on our understanding of those resources and their potential and limitations.

The document is available online:
www.ohiodnr.com/tabid/9376/default.aspx

Projects in Progress for 2011

While much has been accomplished in 2010, many “in progress” projects will result in improvements in 2011 and future years. Working with our partners, OCM’s planned activities that should come to fruition in 2011 include:

- A final *Coastal Design Manual* will be published, companion Webpages will be developed and OCM staff will host training programs to introduce user groups to the manual.
- Documents related to the Western Basin Reaches within the *Lake Erie Shore Erosion Management Plan* will be finalized and those publications will be available to coastal residents.
- A submerged lands permit instrument and process for existing leaseholders to convert from a lease to a permit will be finalized.
- The standard operating procedures in the Submerged Lands Lease/Permit Program will be documented/updated and published.
- An Ohio Administrative Code rule package for offshore wind energy facilities will be drafted and public meetings to receive feedback on the rules will be held.
- A regulatory information mapping website will be developed and made publicly accessible.
- All Submerged Lands Lease boundaries will be digitized within a spatially referenced dataset with corresponding information entered into the Regulatory Database.
- The Lake Erie Literacy Principles and Concepts will be finalized and approved by the National Science Foundation and shared with appropriate education entities.
- Fact sheets regarding grants issued by the Ohio Coastal Management Program including those within the Coastal and Estuarine Land Conservation Program will be updated. This will help continue to explain how money spent in the Lake Erie watershed has improved the resource.
- Continued and improved outreach programs for students and adults will be given.
- Staff will participate in the Coastal Zone 2011 conference being held in Chicago. This biennial international symposium that began in 1978 is the largest international gathering of ocean and coastal management professionals in the world. The 2011 conference provides participants a platform to discuss the issues facing our world’s oceans, coasts and Great Lakes, and a forum for discovering new strategies, solutions, and tools to plan for our future.

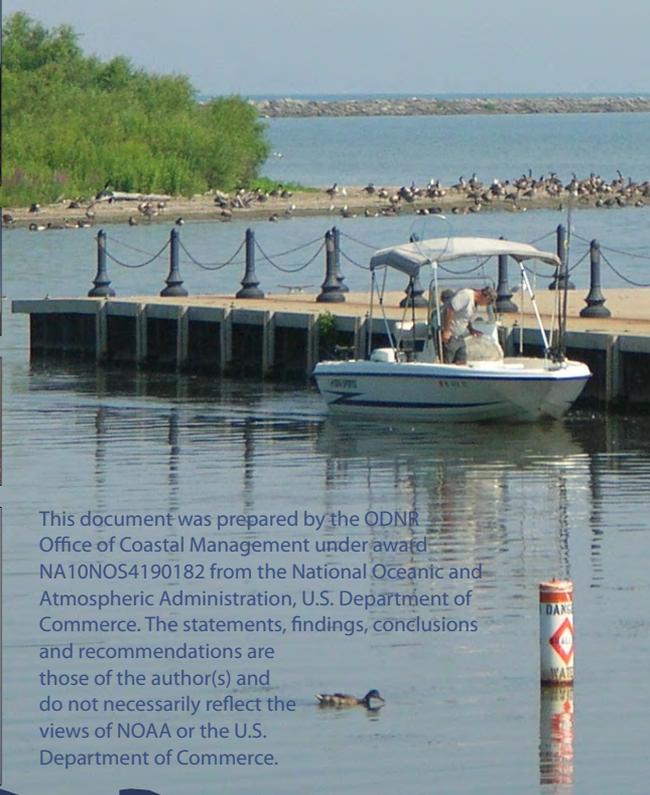


Contents:

Our Mission	2
United in Partnerships	6
Resource Status & Priorities	10
Funding Sources	16
Grants Issued by OCM	18
Lakeside Living	22
Access to the Coast	26
Knowledge Shared	28
Everyday, Improve.	32

Ohio Department of Natural Resources
Office of Coastal Management
www.ohiodnr.com/coastal

This document was prepared by the ODNR Office of Coastal Management under award NA10NOS4190182 from the National Oceanic and Atmospheric Administration, U.S. Department of Commerce. The statements, findings, conclusions and recommendations are those of the author(s) and do not necessarily reflect the views of NOAA or the U.S. Department of Commerce.





Grants

Area or County	Project Description
Allen & Hancock counties	Blanchard River Watershed Coordinator
Cuyahoga County	Whiskey Island Habitat
Defiance, Williams, Fulton & Lucas counties	Ground Water Potentiometric Surface Mapping
Erie County	Coastal & Estuarine Land Conservation Monagan Road Reserve
	Vermilion River Lakeshore Preserve
Lake County	Coastal & Estuarine Land Conservation Preservation Project
	Osborne Park/ Sunset Park Coastal Recreation
Lake Erie Watershed	Beach Clean Ups
	Beach Clean Up-Small Grants
	IMS Upgrades
	Regulatory Database
	IMS Regulatory Upgrade
	Grant Database
	Lake Erie Watershed Coordinators
	Adopt-a-Beach
	Connecting Science – Building Lake Erie
	Coastal NPS Education Specialists
	West Creek Action Plan Implementation
	Ohio's Balanced Growth Program in the
	Ohio Clean Marinas Program
	Investigating Annual Variability in Pelagic
	Beach Clean Up-Small Grants
	Minimizing Impacts of Wind Energy on
	2010 Great Lakes Restoration Initiative
Lucas, Henry, Portage & Huron counties	Ground Water Pollution Potential Mapping
Ottawa County	East Harbor Region Naturalist Funding
Totals	

Grants Issued through the OCM in 2010

	Grantee	Grant Amount	Project Cost
	Blanchard River Watershed Partnership	\$15,500	\$39,750
	Park Works	\$20,000	\$40,000
ing	ODNR Soil & Water Resources	\$75,322	\$75,322
Program - Kelley's Island	Erie County MetroParks	\$332,500	\$665,000
	Erie County MetroParks	156,553	313,107
Program Lake Erie Bluff	Lake Metroparks	\$883,700	\$1,767,400
tional Analysis	City of Willoughby	\$5,000	\$10,500
	ODNR - OCM	\$13,606	\$13,606
	ODNR - OCM	\$6,117	\$12,234
	ODNR - OCM	\$30,600	\$30,600
	ODNR - OCM	\$8,500	\$8,500
	ODNR - OCM	\$29,850	\$29,850
	ODNR - OCM	\$5,000	\$5,000
	ODNR Soil & Water Resources	\$70,000	\$140,000
	Alliance for the Great Lakes	\$10,000	\$29,874
Literacy in the Western Basin	WGTE Public Media	\$35,370	\$74,860
	ODNR Soil & Water Resources	\$50,000	\$100,000
Confluence Project	West Creek Preservation Committee	\$32,000	\$70,000
Lake Erie Watershed	Ohio Lake Erie Commission	\$52,532	\$133,295
	Ohio State University Sea Grant	\$72,605	\$145,625
Bird Densities	ODNR Division of Wildlife	\$29,700	\$59,860
	ODNR - OCM	\$6,117	\$12,234
Wildlife Resources	ODNR Division of Wildlife	\$35,000	\$35,000
	ODNR Division of Wildlife	\$40,000	\$40,000
	ODNR Soil & Water Resources	\$42,862	\$42,862
	ODNR Division of Parks & Recreation	\$11,733	\$28,353
		\$2,070,167	\$3,922,832