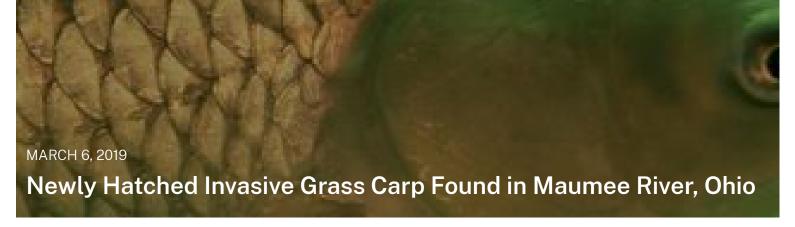


Great Lakes Restoration Initiative

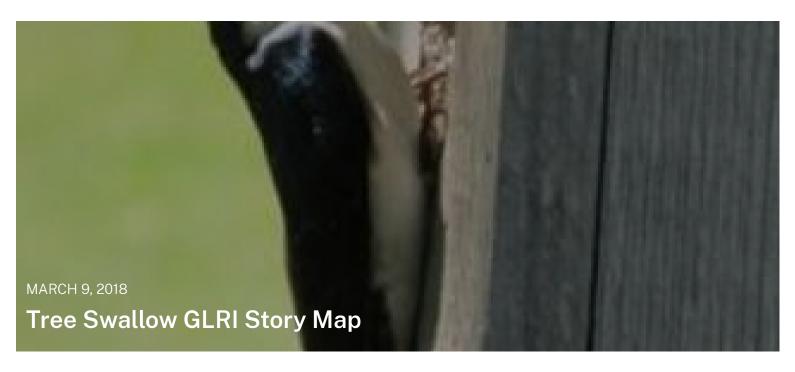
The Great Lakes Restoration Initiative (GLRI) was established in 2009 to accelerate efforts to protect and restore the Great Lakes. The USGS is collaborating with partners to provide science to meet GLRI Action Plan goals and inform resource management decisions.

News









View All

Publications

JANUARY 18, 2024

Atlantic salmon (Salmo salar) culture manual

The primary objective of the Atlantic Salmon Research Program established at the U.S. Geological Survey Tunison Laboratory of Aquatic Science as mandated by the Great Lakes Restoration Initiative is to restore Atlantic salmon (Linnaeus, 1758; Salmo salar) into Lake Ontario. This objective focuses on evaluating the survival of stocked Atlantic salmon in current Lake Ontario conditions to create a g

Authors: Marc A. Chalupnicki, Rich Chiavelli, James E. McKenna

By: Ecosystems Mission Area, Great Lakes Science Center, Great Lakes Restoration Initiative

JANUARY 18, 2024

Cisco (Coregonus artedi) and bloater (Coregonus hoyi) culture manual

The primary objective of the Coregonine Research Program established at the U.S. Geological Survey, Great Lakes Science Center, Tunison Laboratory of Aquatic Science as mandated by the Great Lakes Restoration Initiative is to restore native coregonines, specifically Coregonus artedi (Lesueur, 1818; ciscoes) and Coregonus hoyi (Milner, 1874; bloaters) into Lake Ontario. This objective focuses on pr

Authors: Marc A. Chalupnicki, Gregg Mackey, James E. McKenna

By: Ecosystems Mission Area, Great Lakes Science Center, Great Lakes Restoration Initiative

JUNE 9, 2022

Turbidity and estimated phosphorus retention in a reconnected Lake Erie coastal wetland

Nearly all of the wetlands in the coastal zone of Lake Erie have been degraded or destroyed since the 1860s, and most of those that remain are separated from their watersheds by earthen dikes. Hydrologic isolation of these wetlands disrupts ecosystem benefits typical to Great Lakes coastal wetlands, particularly the ability to trap sediments and retain nutrients when inundated by runoff and lake w

Authors: Glenn Carter, Kurt P. Kowalski, Michael Eggleston

By: Ecosystems Mission Area, Land Management Research Program, Great Lakes Science Center, Great Lakes Restoration Initiative

View All

Science



The Coastal Wetland Monitoring Program (CWMP) is an EPA-led program to monitor the health of all Great Lakes coastal wetlands larger than four hectares. USGS scientists are working with Principal Investigators from many State and academic institutions to conduct data collection, implement standardized sampling protocols, analyze multiparameter data, and communicate results to the public.

Learn More →

FEBRUARY 21, 2024
Invasive Phragmites Science: Using Microbial Interactions to
Foster the Restoration of Great Lakes Wetlands

The USGS is developing innovative Phragmites control measures to keep this rapidly spreading invasive plant from further expanding its range into new wetland habitats and to aid in the development of successful restoration strategies. Scientists are conducting studies and field tests to determine (1) if microbes (i.e., fungi and bacteria) that live within and around Phragmites are enabling the...

Learn More →



Invasive plants negatively impact our water, wildlife, and way of life. Current management tools are not cutting it, so a multi-agency research team is using molecular biotechnology to develop new species-specific treatments that help land managers improve the natural resources that we depend on and have more management options during droughts, floods, and other periods of plant stress. This...

Learn More →
View All

SCIENCE	PRODUCTS
Science Explorer	Data
Mission Areas	Maps
Programs	Publications
Regions	Multimedia Gallery
Science Centers	Web Tools
Observatories	Software
Laboratories	U.S. Board on Geographic Names
Frequently Asked Questions	The National Map
Educational Resources	USGS Library
Special Topics	USGS Store
	Park Passes

NEWS CONNECT Featured Stories Headquarters **News Releases** Locations Science Snippets Staff Profiles **Technical Announcements** Social Media **Employees in the News** Careers Get Our News **Contact Us Media Contacts** I'm a Reporter **Newsletters ABOUT LEGAL About Us** Accessibility Survey Manual FOIA Organization Site Policies **Key Officials Privacy Policy** Congressional Site Map DOI and USGS link policies apply Budget Careers and Employees No FEAR Act **Doing Business** USA.gov

Emergency Management

Vulnerability Disclosure Policy



U.S. Geological SurveyU.S. Department of the Interior



Contact USGS

1-888-392-8545 answers.usgs.gov