

OHIO SEA GRANT AND STONE LABORATORY

The Great Lakes AIS Landing Blitz

Ohio's Efforts and Ways to Get Involved

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Ohio Sea Grant



AIS and Recreational Boating

- Annual Economic Impact: **\$170 billion**





STOP AQUATIC HITCHHIKERS!™

Be A Good Steward. Clean. Drain. Dry.

<https://stopaquatic hitchhikers.org/prevention/>



CLEAN DRAIN DRY

ANGLERS

MOTOR BOATS

NON-MOTORIZED BOATS

SCUBA DIVERS AND SNORKELERS

SEAPLANE OPERATORS

WATERFOWL HUNTERS

SWIMMERS

Unused bait and invasive plants and animals hitchhiking in bait buckets can ruin your fishing.



ALWAYS:
DRAIN BAIT BUCKET WATER ON LAND
DISPOSE OF UNWANTED BAIT IN THE TRASH

www.protectyourwaters.net

Developed by Illinois Invasive Sea Grant & Illinois Natural History Survey, Prairie Research Institute with funding from the Great Lakes Restoration Initiative ©2013 The Board of Trustees of the University of Illinois. 955-1231



Stop Aquatic Hitchhikers!™

PLEDGE

I want to do my part to protect the waters where I recreate. I pledge to take the following actions each time I visit a body of water.

CLEAN all watercraft and equipment. Remove visible aquatic plants and mud before leaving any water access.

DRAIN water from boat, bilge, motor, and livewell by removing drain plug. Many states and provinces have regulations that require these actions.

DRY everything at least five days before going to other waters or spray and rinse recreation equipment with high pressure and/or hot water (120°F/50°C or higher).

Name: _____

Email address: _____

CLEAN DRAIN DRY

Anchor Hull Bunks Axle



Hitch Dock-lines Trailer Live Wells Trailer Lights



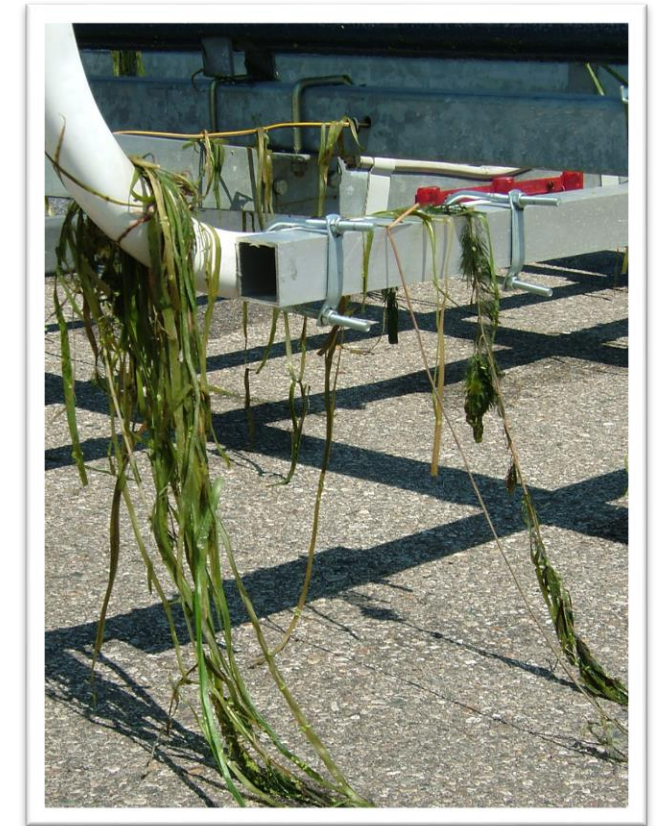
Great Lakes Aquatic Invasive Species Landing Blitz

- Collaborative **outreach campaign** to raise awareness about preventing the spread of aquatic invasive species through **recreational boating** and related activities
- Local **volunteers** partner with state agencies to deliver consistent messaging about preventing the introduction and spread of AIS from the movement of watercraft and equipment between water bodies at both public and private **boating access sites** throughout the state
- Effort occurs during a set **timeframe**
- Event is **promoted** locally and statewide.



Great Lakes Aquatic Invasive Species Landing Blitz

- Collaborative **outreach campaign** to raise awareness about preventing the spread of aquatic invasive species through **recreational boating** and related activities



Event Website: <https://www.glc.org/work/blitz>

- Annual Event
 - **2022 Dates: July 1-10**
- Locations
- Partners
- How to Prevent the Spread of AIS
- Media Information and State Contacts

Great Lakes Aquatic Invasive Species **LANDING BLITZ**

Great Lakes boaters and anglers experienced a regionwide educational "blitz" encouraging them to clean, drain, and dry their boats and gear, and properly dispose of unwanted bait.

The **Great Lakes AIS "Landing Blitz"** is a binational multi-agency effort aimed at raising public awareness and promoting actions to prevent the spread of harmful aquatic invasive species (AIS).

In 2019, the two week event brought together hundreds of partners to support education efforts and watercraft inspections to reduce the risk of moving AIS between water bodies.

Thousands of people are becoming part of the solution:



Credit: Christal Campbell, UW Division of Extension

- Approximately **115,000 people** were educated about AIS by agency staff, watercraft inspectors and volunteers
- **1,400 public and private boat landings** in Great Lakes states and provinces participated in the most extensive, coordinated landing blitz event to date
- **94%** of participating boat landings also hosted boat inspections, leading to **over 130,000 inspections**
- Only **6%** of inspections found aquatic plants, animals, and/or mud attached to boats, motors, and trailers

- Multiple media outlets covered event happenings and **millions of people watched, listened and read about AIS prevention efforts** based on news releases by partner agencies
- At least **103,500 people** saw information about the event on Facebook, Instagram, and/or Twitter
- **780+** interested people got information about the event through the event webpage at www.glc.org/blitz



For more information
and to become a partner visit:
www.glc.org/blitz

Ohio's Efforts

OHIO SEA GRANT AND STONE LABORATORY





The Ohio Clean Boater Program

go.osu.edu/cleanboaterpledge
go.osu.edu/cleanmarinasyoutube



Voluntary stewardship program to keep Ohio's coastal and inland waterway resources clean



Boaters pledge to follow environmental best management practices



Conduct outreach at recreational boating events & provides training to other educators in the field



10 WAYS TO BE A **CLEAN BOATER**

1. **REDUCE, REUSE, RECYCLE:** Avoid single use plastics and invest in a reusable boat cover!
2. **STOW IT, DON'T THROW IT:** Prevent trash being thrown or blown overboard, including cigarette butts.
3. **FUEL WISELY:** Use best practices when fueling to prevent overflows and increase fuel efficiency.
4. **KEEP IT CLEAN:** Use absorbent pads to clean up oil and gas.
5. **CHECK YOUR ENGINES:** Keep engines and machinery in the working condition to reduce oil leaks.
6. **PLAN AHEAD:** Manage sewage wastes properly and use a pump-out.
7. **GREEN CLEANING:** Use plain water, non-toxic, biodegradable cleaners and non-abrasive pads to wash your vessel.
8. **CLEAN, DRAIN, DRY:** Assure all equipment is free of debris to prevent the spread of invasive species.
9. **MIND YOUR BAIT:** Always dispose of unused bait properly onshore and never dump into the water.
10. **KEEP A CLEAN BILGE:** Use an oil absorbent bilge sock or remove all oil from the bilge before discharging into the water.



ohioseagrant.osu.edu/clean  [OhioCleanMarinasCleanBoaters](https://www.facebook.com/OhioCleanMarinasCleanBoaters)

The Ohio Sea Grant Program and Ohio Clean Boater Program are implemented with financial assistance provided by the Coastal Zone Management Act of 1972, as amended, administered by the Office of Ocean and Coastal Resources, State of Ohio, and the National Oceanic and Atmospheric Administration through the NOAA Office of Coastal Management and awarded to Ohio State University through a cooperative agreement. Funding for the cooperative agreement is provided by the USFWS Region of Wetlands.



The Ohio Clean Marinas Program



Encourages voluntary, incentive-based participation



Educates marinas & boaters on best management practices



Provides compliance assistance & training workshops



Administers the Ohio Clean Boater Program



Protects 3,965 square miles of water & 312 miles of shoreline



Improves Water Quality and Wildlife Habitat



10 REASONS TO BE
PROUD OF YOUR OHIO

CLEAN MARINAS

1. **KEEP IT CLEAN:** Ohio Clean Marinas help keep oil, fuel, sewage and other contaminants and nutrients out of Ohio's waterways.
2. **HEALTHY HABITATS:** Maintaining high water quality builds healthy habitats for people, fish and wildlife.
3. **MAKE A SPLASH:** Clean water is safer and more desirable for swimming.
4. **WASTE NOT:** Recycling programs and reduced trash and contamination means less waste in landfills.
5. **BE PART OF THE SOLUTION:** Ohio Clean Marinas and responsible boaters help prevent the spread of invasive species and diseases.
6. **IN GOOD COMPANY:** Ohio Clean Marinas attract boaters who appreciate a cleaner environment and follow good boating practices.
7. **KEEP IT MOVING:** Better marina design improves water circulation and reduces the need for dredging.
8. **A GOOD REPUTATION:** Ohio Clean Marinas enhance the positive image of coastal communities and contribute to regional economic prosperity.
9. **SAFER AND SMARTER:** Educated marina staff members follow environmentally sound best management practices.
10. **WIN-WIN:** Everybody wins when we keep Ohio's waterways clean!



ohioseagrant.osu.edu/clean

[Facebook icon @OhioCleanMarinasCleanBoaters](https://www.facebook.com/OhioCleanMarinasCleanBoaters)

The Ohio Clean Marina Program and Ohio Clean Boater Program are implemented with financial assistance provided by the Coastal Zone Management Act of 1972, as amended, administered by the Office of Coastal and Great Lakes Management, National Oceanic and Atmospheric Administration through the NOAA Office of Coastal Management and matched with Ohio Sea Grant College Program funds. Funding for the statewide expansion is provided by the OSU Office of Research.

Recreational Water User Guidance

See <https://stopaquatic hitchhikers.org/prevention/#clean-drain-dry>
for additional guidance

Inspect, Clean, Drain, and Dry

- ✓ Waders
- ✓ Rope
- ✓ Anchor
- ✓ Dip net
- ✓ Field gear
- ✓ Bilge
- ✓ Livewell
- ✓ Trailer



- ✓ Bait containers
- ✓ Paddles
- ✓ Floats
- ✓ Mask & Snorkel
- ✓ Wetsuit
- ✓ ATVs
- ✓ Decoys
- ✓ Blinds



**STOP AQUATIC
HITCHHIKERS!**
Be A Good Steward. Clean, Drain, Dry.

Clean Marina BMPs

Good: Provide signage educating your boaters how to Clean, Drain, Dry their vessels.

Better: Provide training workshops educating boaters about aquatic invasive species.

Best: Provide training and an aquatic invasive species wash pad or powerwashing services to boaters. <https://www.wildlifeforever.org/store/>





**STOP AQUATIC
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Clean Boater BMPs

Good Practices :

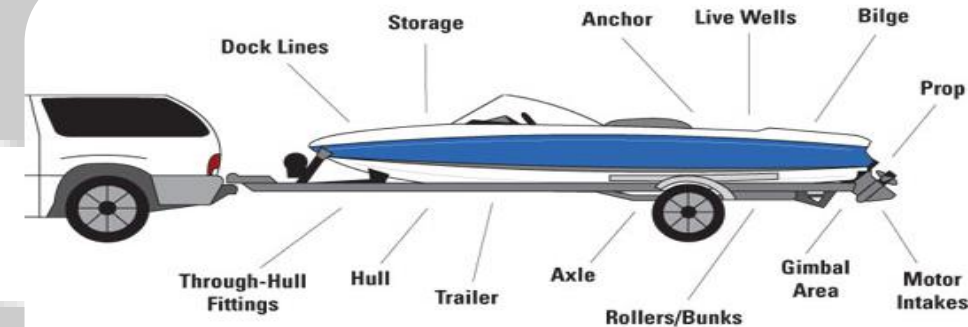
CLEAN off visible plants, animals, mud and debris from all equipment before leaving water access

DRAIN water from motor, bilge, livewell & other water containing devices before leaving water access.

DRY everything with a towel before reuse or allow to sit for 5 days.

INSPECT boats, trailers & all equipment

PLAN & RECORD your efforts





**STOP AQUATIC
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Clean Boater BMPs

Better Practices:

CLEAN – DRAIN – DRY – INSPECT – RECORD

Cold Rinse boats, trailers and equipment with garden hose

Disinfect with a mild bleach (0.5 oz/quart water) or salt solution (2/3 cup/gallon water) on all equipment





**STOP AQUATIC
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Clean Boater BMPs

Best Practices:

CLEAN – DRAIN – DRY – DECONTAMINATE

High Pressure Rinse with a pressure washer in a wash line for boats/trailer

Exceptional Practices:

CLEAN – DRAIN – DRY – DECONTAMINATE

Hot Pressure Rinse with pressure washer with water above 140° F in a wash line for boats/trailers.

A note about chemicals: Always follow directions and get guidance!

Chemicals may: Damage equipment or components, cause environmental damage, harm human health, or may not be effective against many AIS species.



2020 – Webinar on Partner Efforts and Resources

<https://www.youtube.com/watch?v=afLe9c3A8Ng>

- Ohio organizations taking steps to help with AIS education and prevention:
 - Ohio Clean Marinas Program
 - ODNR Division of Wildlife
 - ODNR Parks & Watercraft
 - Ohio Sea Grant
 - Ohio State University Extension
 - Lake Erie Charter Boat Association
 - Cleveland Metroparks
 - Old Woman Creek National Estuarine Research Reserve

The image shows a screenshot of a webinar slide titled "Great Lakes Aquatic Invasive Species Landing Blitz" with a subtitle "UNIVERSITY EXTENSION". The slide content includes the heading "Information resources" and a description of the "Great Lakes Aquatic Nonindigenous Species Information System (GLANSIS)". It lists two bullet points: "Great Lakes-specific search engine housed by NOAA's Great Lakes Environmental Research Laboratory." and "Species accounts drawn from USGS database by default." Below the text is a URL: <https://www.glerl.noaa.gov/glansis/>. A screenshot of the GLANSIS website is shown below the text. The website interface includes a search bar, a "Generate a customized non-indigenous species list and access profiles" button, and a "Species Category" dropdown menu. To the right of the slide is a video interface showing two participants in a grid view. The top participant is a woman with sunglasses, and the bottom participant is a man with a beard. There are also icons for a clock and a share button.

2021 Invasive Species Webinar Series

AIS, What's That? An overview of Aquatic Invasive Animals and Plants in Ohio

Stop Aquatic Hitchhikers! Tips and Resources on Aquatic Invasive Species

Don't Forget about the Plants! Terrestrial Invasive Plants in Ohio

Become a Citizen Scientist: Invasives of Concern in Ohio and How you Can Help

Terrestrial Invasive Animals: Spotlight on Wild Boar

Visit <https://www.youtube.com/TheOhioDNR> to watch the recordings.



2022 – Stay Tuned and Participate!

- RFP to local organizations to enhance outreach during July 1-10
- At least 1 awardee in Ohio
- Ohio Clean Marinas Program, Ohio Sea Grant, Ohio Department of Natural Resources partnering to offer guidance, assistance, support where possible

<https://www.glc.org/work/blitz>



Ways to Get Involved

OHIO SEA GRANT AND STONE LABORATORY



Join the Great Lakes AIS Landing Blitz

Boaters and other recreators learn about the risks of spreading aquatic invasive species (AIS) at public and private boating access sites across the Great Lakes region every summer. The Great Lakes AIS “Landing Blitz” events take place over a two-week period, emphasizing the need to **Clean, Drain, Dry** boats whenever they come out of the water, and **Dispose** of any unwanted bait in the trash.

<https://www.glc.org/work/blitz>

Great Lakes Aquatic Invasive Species LANDING BLITZ

Great Lakes boaters and anglers experienced a regionwide educational “blitz” encouraging them to clean, drain, and dry their boats and gear, and properly dispose of unwanted bait.

The Great Lakes AIS “Landing Blitz” is a binational multi-agency effort aimed at raising public awareness and promoting actions to prevent the spread of harmful aquatic invasive species (AIS).

In 2020, the two week event brought together hundreds of partners to support education efforts and watercraft inspections to reduce the risk of moving AIS between water bodies. However, due to public health restrictions surrounding the COVID-19 outbreak, many partners were unable to host in-person events, leaving social media and other virtual events as key components of this year’s Landing Blitz.



Thousands of people are becoming part of the solution:

Where in-person events were able to be held safely and responsibly,

- Approximately **128,000 people** were educated about AIS by agency staff, watercraft inspectors and volunteers
- Over **1,000 public and private boat landings** in four Great Lakes states and provinces participated in the Landing Blitz in a socially distant manner
- **98%** of participating boat landings also hosted boat inspections, leading to over **110,000 inspections**

As part of Landing Blitz virtual events,

- More than 50 media outlets covered event happenings and **millions of people watched, listened and read about AIS prevention efforts** based on news releases by partner agencies
- More than **830,000 people** saw information about the event on Facebook, Instagram, and/or Twitter, a **746% increase from the 2019 event!**
- Tweets using the official event hashtag, **#GLAISBlitz**, were seen on up to **141,000** different user timelines
- **1,150+** interested people got information about the event through the event webpage at www.glc.org/blitz



For more information and to become a partner visit:
www.glc.org/blitz

Local volunteers partner with state and provincial agencies to deliver consistent messaging about preventing the introduction and spread of AIS from the movement of watercraft and equipment between water bodies. Information on these events, including educational materials, locations and volunteer opportunities are posted on this page as they become available.

July 1-10, 2022



**STOP AQUATIC
HITCHHIKERS!**
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Create an AIS Prevention Kit

(or encourage staff/colleagues/others to do so)



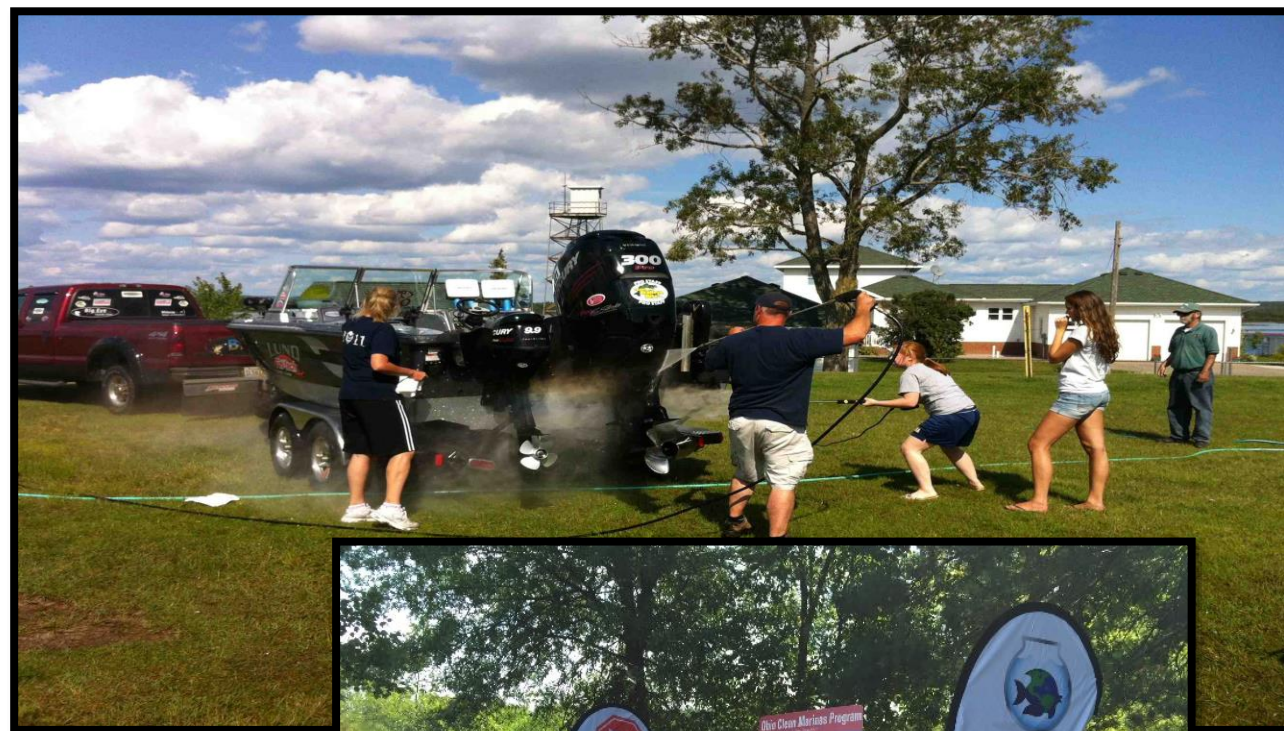
Encourage or Conduct AIS Outreach

Organize:

- A boat wash
- An inspection line
- An educational display

Appropriate for:

- Adults and Kids!
- Ages 7 – 16+
- 3 – 10 people (with 2+ Adults)



Resources for Boat Wash Stations

- Clean Boats, Clean Tournaments
 - YouTube Video: <https://www.youtube.com/watch?v=13FfNNWFyGk>
 - Boat Wash at Fishing Tournament Brochure: <https://publications.aqua.wisc.edu/product/clean-boats-clean-tournaments-how-about-a-boat-wash-station-at-our-tournament/>
 - BMPs to Inspect and Wash Fishing Tournament Boats: <https://publications.aqua.wisc.edu/product/clean-boats-clean-tournaments-best-management-practices-to-inspect-and-wash-fishing-tournament-boats/>



Support and Promote Ohio's Efforts

- Events as part of AIS Blitz
- Press releases
- Social Media and YouTube content leading up to, during, and after July 1-10

<https://www.glc.org/work/blitz>

A poster for the 'Invasive Species Webinar Series' set against a background of a boat on a lake. The poster lists five webinars with their dates, times, and topics. To the right of the text are three small images: a bowl of clams, green aquatic plants, and a jellyfish.

Invasive Species Webinar Series

Find the webinar event links at
<https://www.facebook.com/OhioCleanMarinasCleanBoaters/events>

July 7 at 10 a.m. EST
AIS, What's That? An overview of Aquatic Invasive Animals and Plants in Ohio

July 14 at 10 a.m. EST
Stop Aquatic Hitchhikers! Tips and Resources on Aquatic Invasive Species

July 21 at 10 a.m. EST
Don't Forget about the Plants! Terrestrial Invasive Plants in Ohio

July 28 at 10 a.m. EST
Become a Citizen Scientist: Invasives of Concern in Ohio and How you Can Help

Aug 4 at 10 a.m. EST
Terrestrial Invasive Animals: Spotlight on Wild Boar

Visit <https://www.youtube.com/TheOhioDNR> to watch the recordings.





Thank You!

Ohio Clean Marina & Boater Resources –
ohioseagrant.osu.edu/clean

Ohio AIS Field Guide:
<https://ohioseagrant.osu.edu/p/4j7wz>

AIS in the Great Lakes Fact Sheet:
<https://ohioseagrant.osu.edu/p/6bdd5>

AIS Best Practices for Boaters YouTube
Video: <https://go.osu.edu/cmairs>

Clean Boats, Clean Tournaments YouTube
Video: <https://www.youtube.com/watch?v=13FfNNWFyGk>

Connect, share, post with us on Facebook!
www.facebook.com/OhioCleanMarinasCleanBoaters

Find Out More:

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ohioseagrant.osu.edu/clean

gcleanmarina.org

[facebook.com/ OhioCleanMarinasCleanBoaters](https://facebook.com/OhioCleanMarinasCleanBoaters)

