



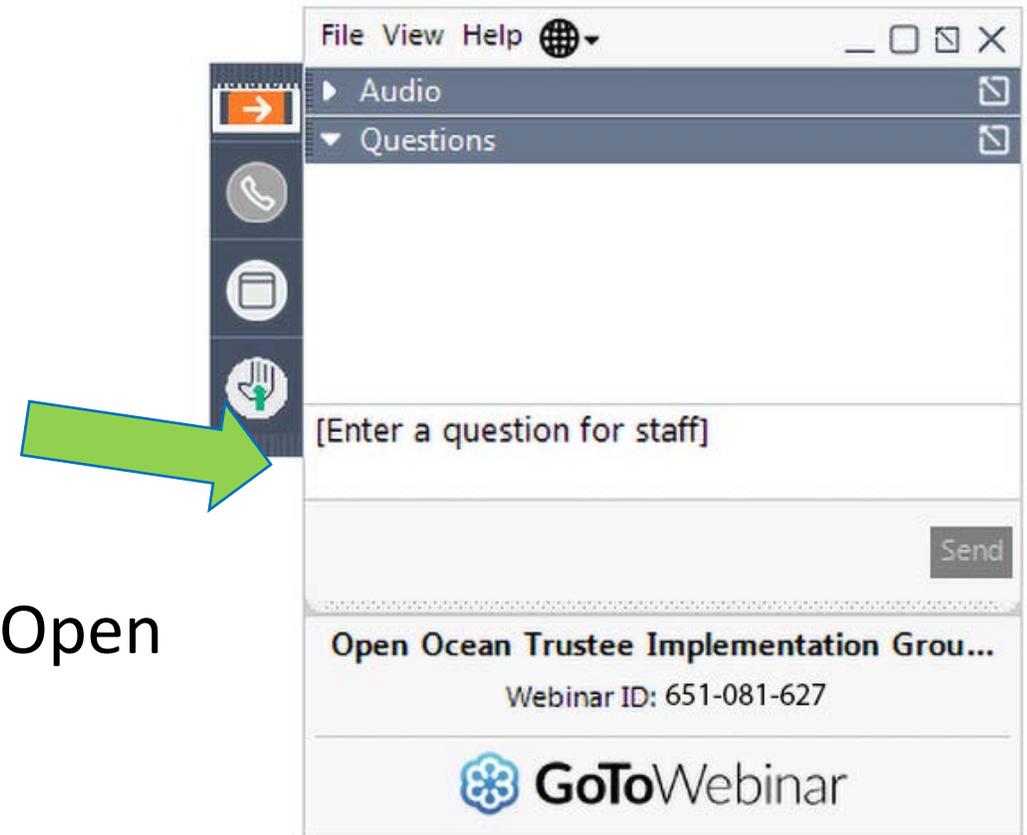
Open Ocean Restoration Area Annual Meeting and Loon Special Session



Webinar Participation



- If you're using a phone, turn off your computer's microphone and speakers
- Please use the "Questions" box to type questions for the Q&A session
- Presentation will be posted on www.gulfspillrestoration.noaa.gov
- Please see the chat box for a link to the Open Ocean Restoration Area webpage



Webinar Overview



- Open Ocean Annual Meeting
 - *Deepwater Horizon* Background
 - Open Ocean Restoration Area Updates
 - Restoration Planning & Projects
 - Monitoring and Adaptive Management
 - Question and Answer Session
- Special Session: Outreach and Engagement by the Common Loon Restoration Project



Deepwater Horizon Incident



Source: U.S. Coast Guard

- The tragic loss of 11 workers and largest marine oil spill in U.S. history
- 3.2 million barrels (134 million gallons) of oil released into the ocean over 87 days
- 43,300 square miles: Cumulative extent of surface slick during the spill—an area almost the size of Virginia

Deepwater Horizon NRDA Settlement



2016 Settlement: up to \$8.8 billion

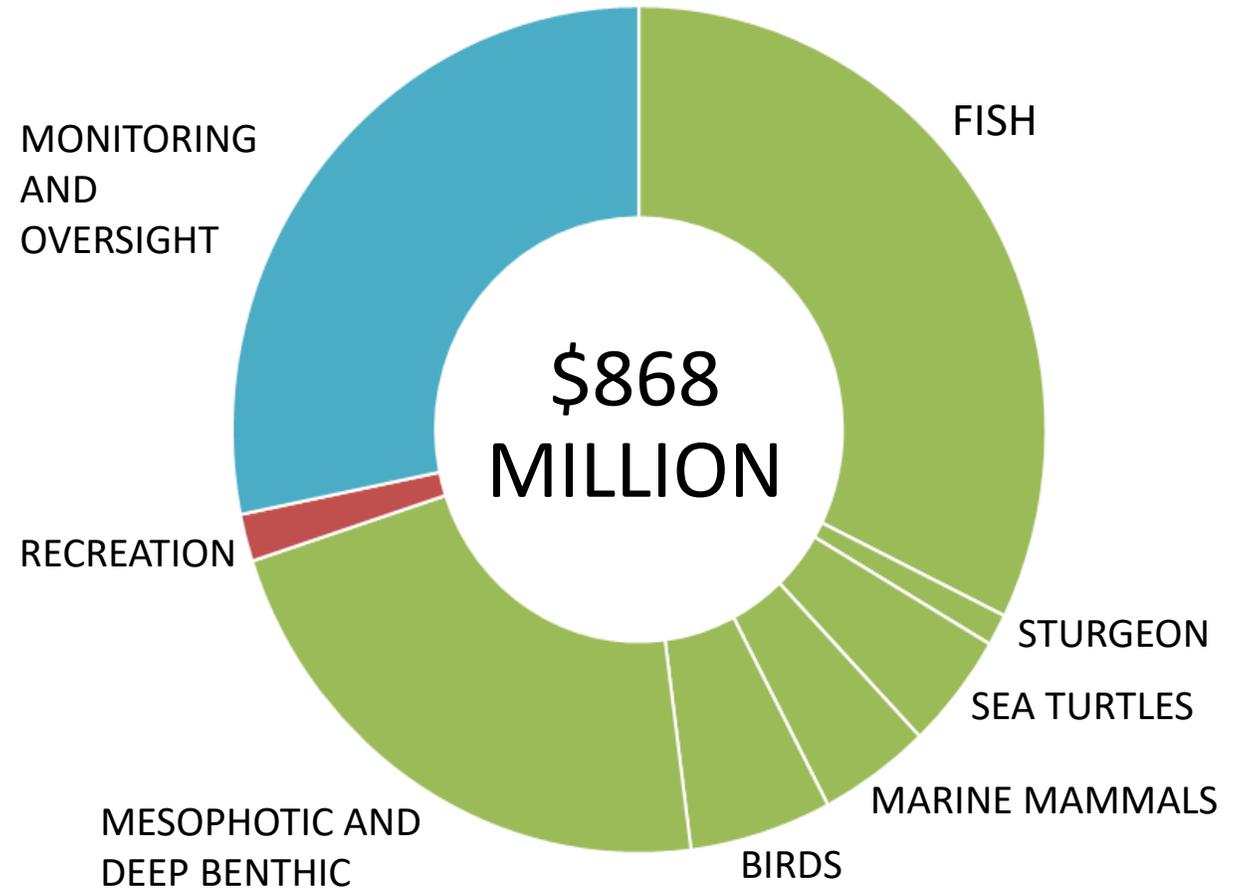
- Restore and Conserve Habitat: \$4.7 billion
- Replenish and Protect Living Coastal and Marine Resources: \$1.8 billion
- Restore Water Quality: \$400 million
- Provide and Enhance Recreational Opportunities: \$400 million
- Monitoring, Adaptive Management, Administrative Oversight: \$1.5 billion
- Adaptive management for unknown conditions: up to \$700 million



Open Ocean Trustee Implementation Group



- Identify, develop, evaluate restoration projects
- Draft restoration plans
- Engage the public
- Select and implement restoration projects
- Monitor and adaptively manage
- Comprehensive planning and oversight



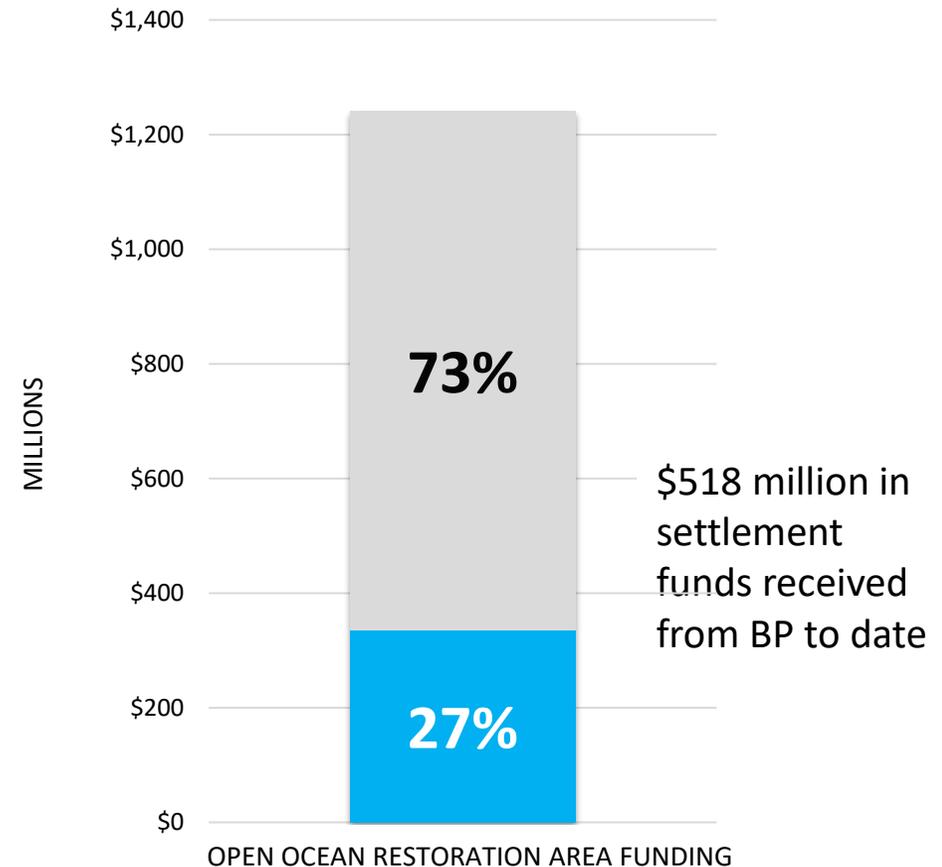
Open Ocean Funding Update



- Total Open Ocean allocation is \$1.2 billion, to be received in payments through 2031
- We have received \$518 million from BP to date

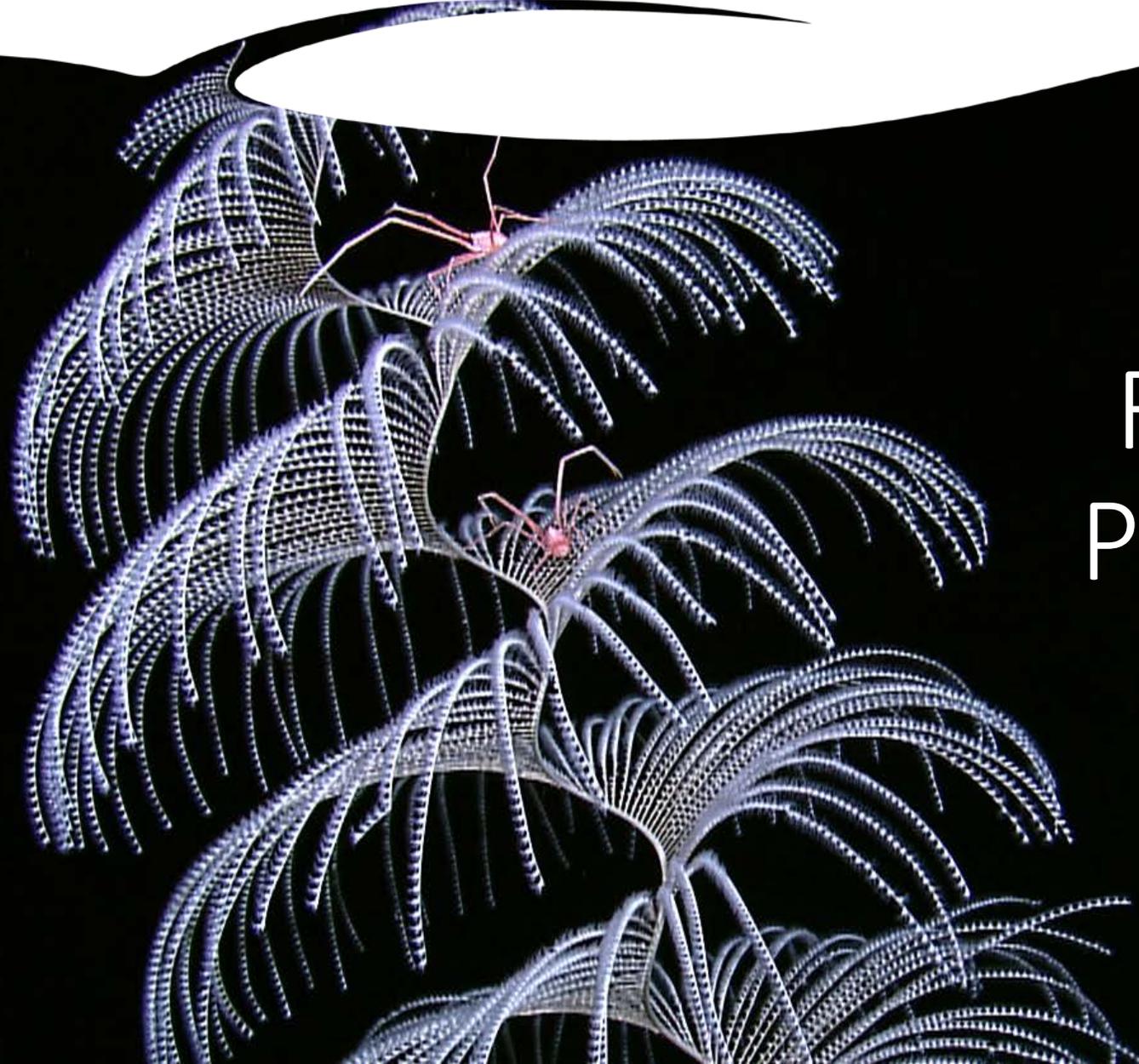
\$340 million

Approximate amount committed for projects and activities as of May 2022





Restoration Planning and Projects



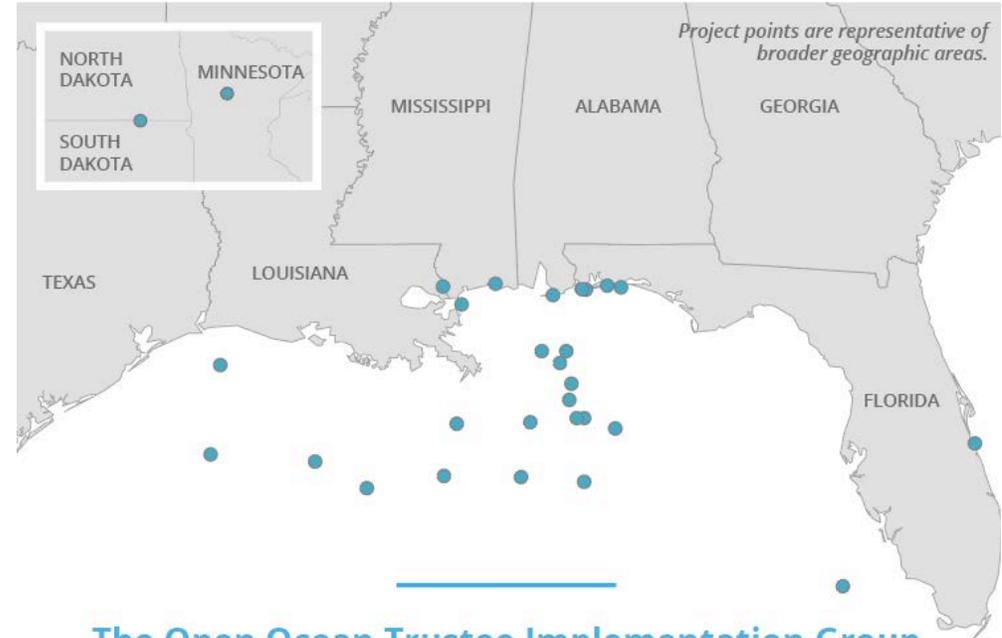
Open Ocean Restoration Projects



30

OPEN OCEAN RESTORATION PROJECTS

- 5 Fish and Water Column Invertebrates
- 1 Sturgeon
- 6 Sea Turtles
- 4 Marine Mammals
- 2 Birds
- 4 Mesophotic and Deep Benthic Communities
- 4 Provide & Enhance Recreational Opportunities
- 4 Monitoring and Adaptive Management



The Open Ocean Trustee Implementation Group restores wide-ranging and migratory species that were injured by the spill throughout their geographic range, including some areas outside the Gulf of Mexico.

Restoration Plan 3: Bird Restoration



- Restoring injured seabird species
- Techniques such as:
 - Reducing nest predation
 - Re-establishing breeding colonies
 - Reducing threats such as bycatch
- Draft restoration plan to be released for public comment in early 2023.



Open Ocean Restoration Highlights

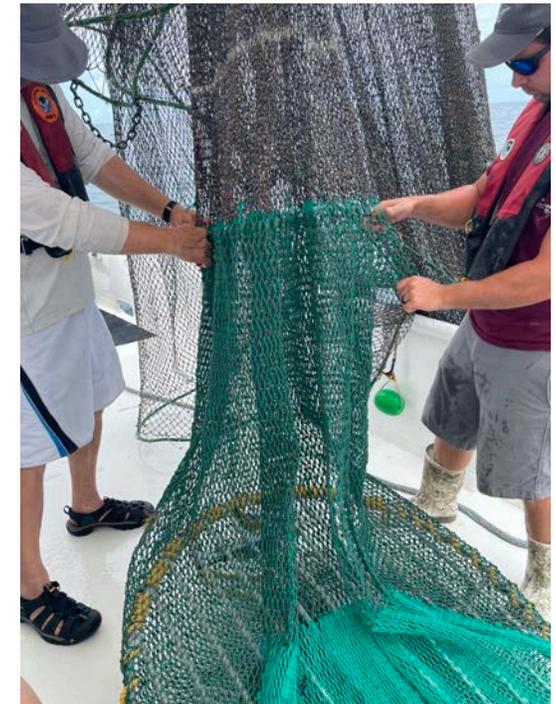


Projects to restore Mesophotic and Deep Benthic Communities conduct eight Gulf of Mexico expeditions, mapping over 2,000 miles of seafloor

Open Ocean Restoration Highlights



Three candidate devices tested to reduce fish bycatch



Prototype devices show promise to further reduce juvenile sea turtle bycatch



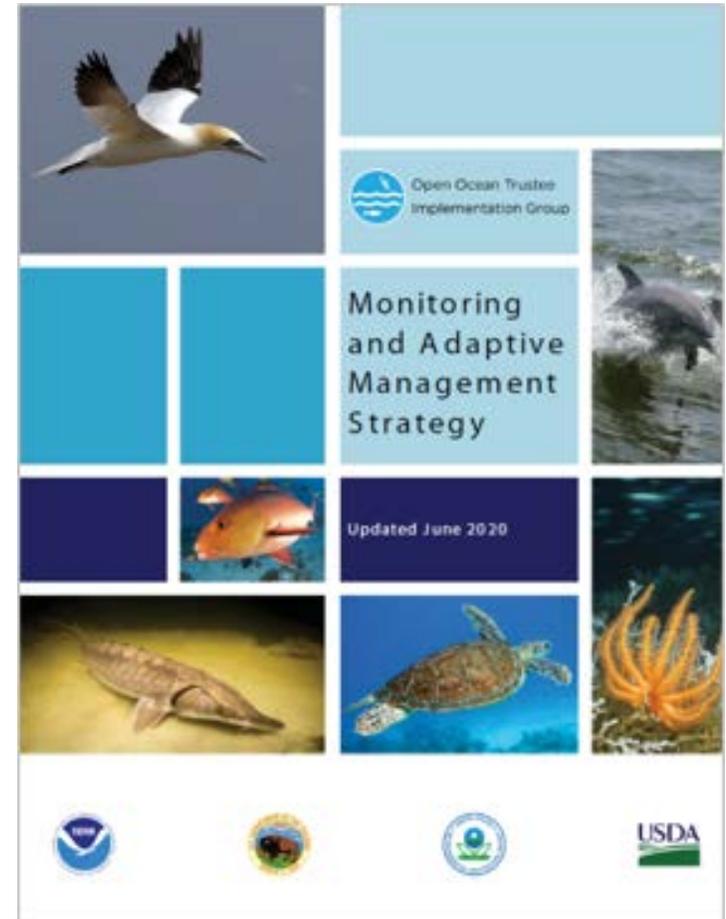
Monitoring and Adaptive Management

Monitoring & Adaptive Management



New activities are being developed to:

- Evaluate Restoration Progress
 - Assess indicators of progress
 - Understand effects & impacts of restoration
- Identify Stressors
 - Identify spatial overlap of stressors and resources
- Assess Resources and Habitats
 - Analyze data to identify areas that are highly valuable or productive for ocean resources



Monitoring & Adaptive Management



- New monitoring activity to collect abundance and distribution data for Seabirds and Marine Mammals
- Implementation Plan released in August
- Surveys will be conducted in Summer 2023 and 2024
- Estimated 3-year budget: \$2.3 million

How to Access Open Ocean Project Information



Projects Near You

Explore our **interactive map** to see details on restoration projects.

[VIEW PROJECT DETAILS](#)

Gulf Spill Early Restoration Projects
Early restoration projects in the Gulf States approved by the Deepwater Horizon NRDAs Trustees

Get the latest **news updates** from the Deepwater Horizon Trustees

[SIGN UP NOW](#)

Suggest a **restoration project** for consideration

[SHARE YOUR IDEA](#)

View **projects submitted** for Trustee consideration

[VIEW SUBMISSIONS](#)

Gulf Spill Restoration Projects
Restoration projects in the Gulf States approved by the Deepwater Horizon NRDAs Trustees

All Projects FL LA AL MS TX Regionwide Open Ocean

15 Remove asphalt scattered on beaches by storms - Florida

32 Passenger ferry in Gulf Islands National Seashore

55 Bike and Pedestrian Enhancements

56 Trail Enhancement

58 Reducing bycatch to restore open-ocean fish

182 Gulf Sturgeon Spawning Habitat Characterization

186 Restoration of Common Loons in Minnesota

188 Restoration of Black Terns in North and South Dakota

203 Gulf Sturgeon Population Status and Trends

206 Juvenile Gulf Sturgeon Gulf-Wide Population Dynamics and Habitat Use

247 Evaluating the Cumulative Effects of Multiple Stressors on Oceanic Cetaceans

www.gulfspillrestoration.noaa.gov

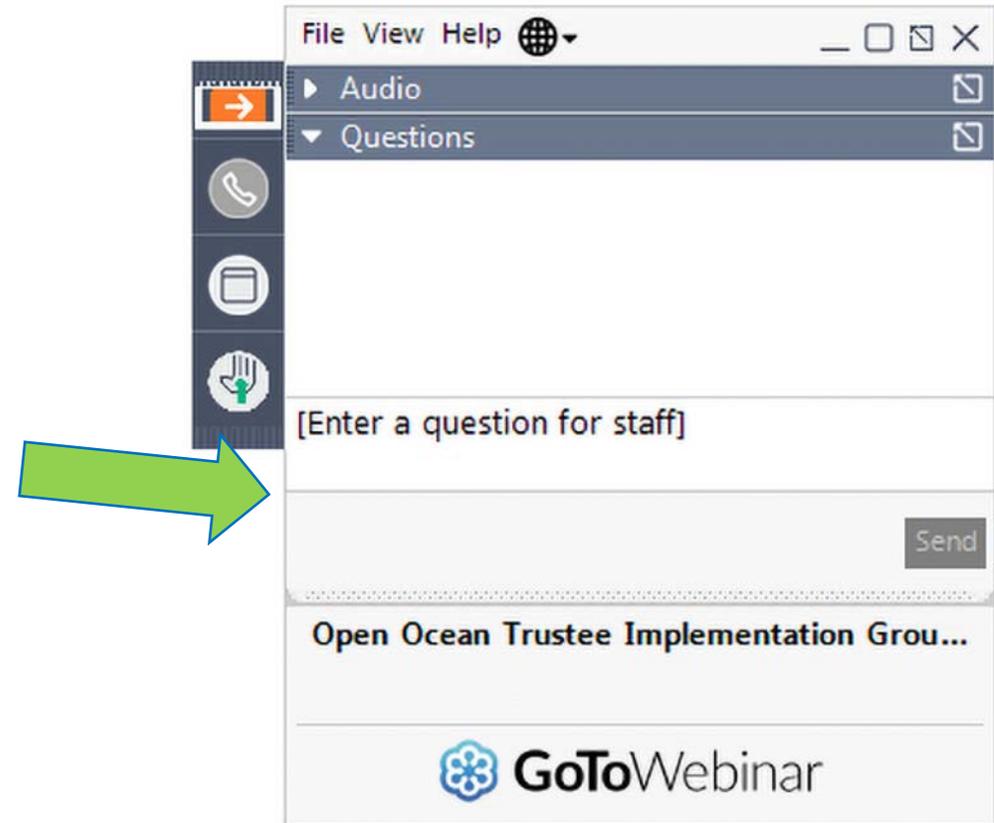


Questions?

Questions



- Please type your questions in the “Questions” box.
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- More information is online at the Open Ocean webpage link in chat.

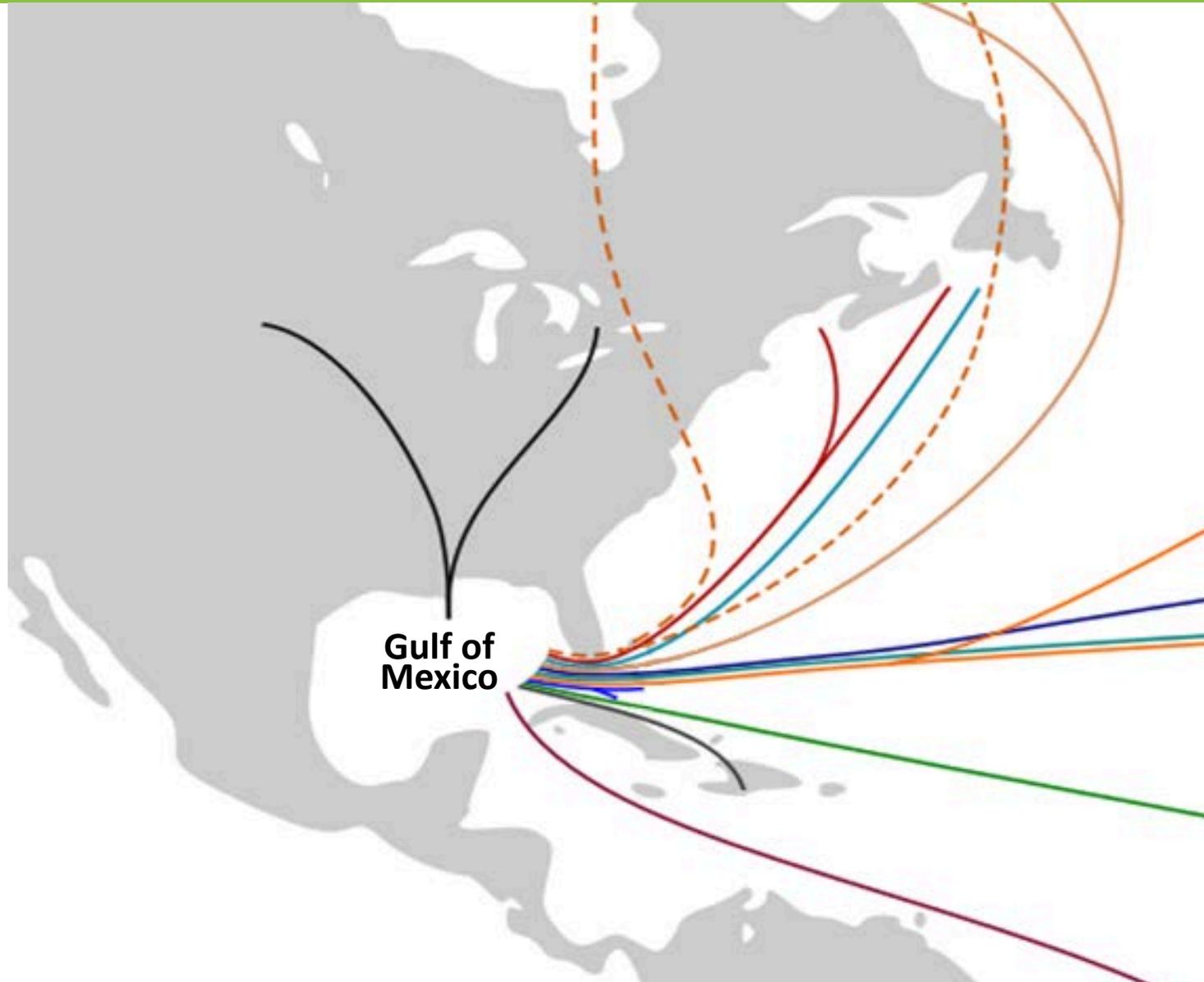




Engaging Communities in Restoration: Restoration of Common Loons in Minnesota



Migratory Bird Connections to the Gulf



Restoration of Common Loons in Minnesota



Restoration of Common Loons in Minnesota



Loon nesting habitat



Loon nesting platform

Loon Restoration Project Team



Reena Bowman

Project Manager, Biologist

U.S. Fish and Wildlife Service

Bloomington, Minnesota



Kelly Amoth and Steven Yang

"Get the Lead Out" Program Managers

Minnesota Pollution Control Agency



Lead and Loons

A Toxic Relationship



Species of focus



© Michael Cummings | Shutterstock



© Marky Mutchler | Macaulay Library





Steve Maanum



Nina Schoch



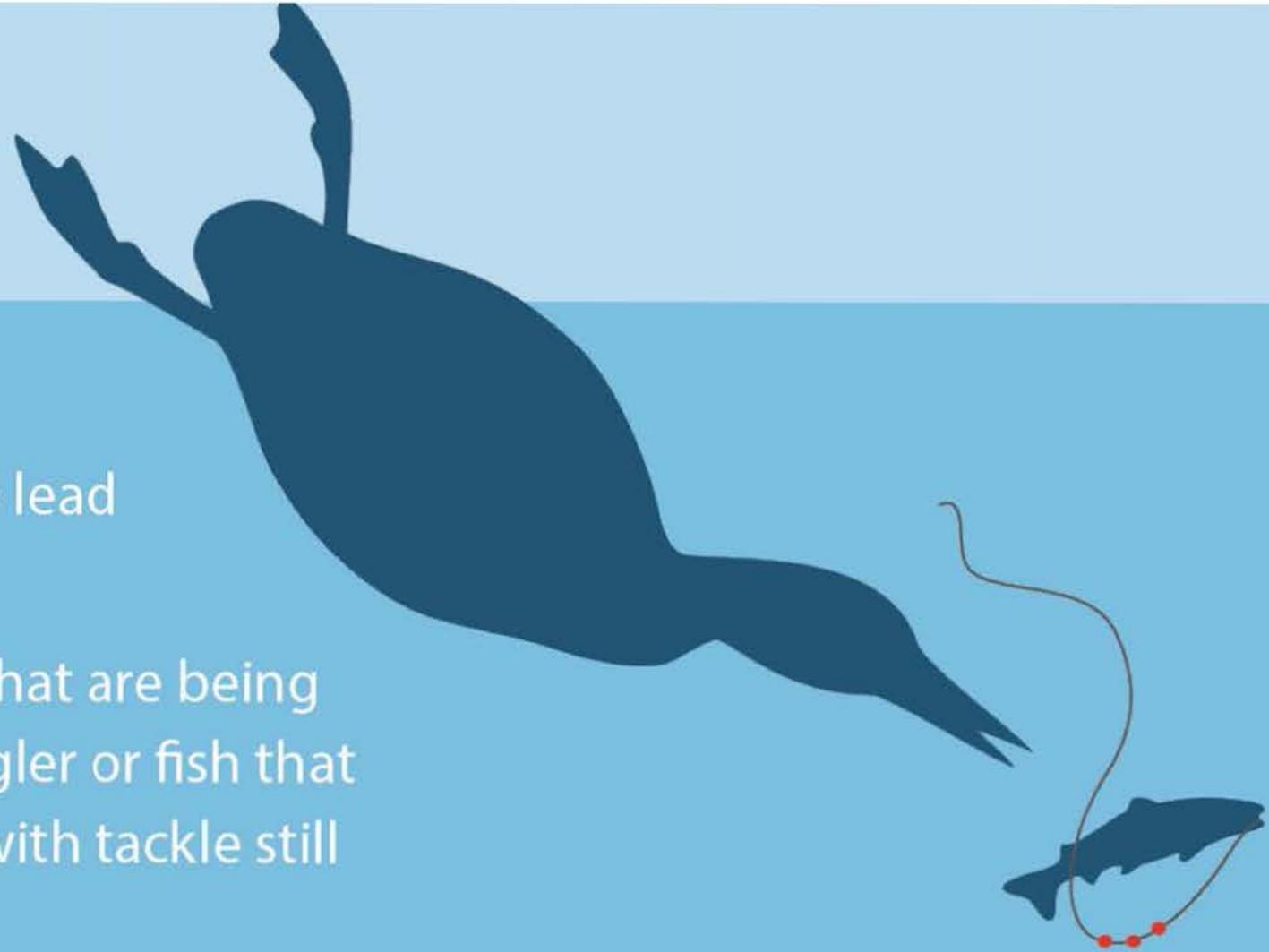
Earl Orf



Lead Ingestion

Loons are exposed to lead in two ways:

- 1) they feed on fish that are being reeled in by an angler or fish that have broken free with tackle still attached



Lead Ingestion

2) lead weights fall to the bottom of the lake and the loon ingests the lead along with pebbles needed as grit to aid in digestion

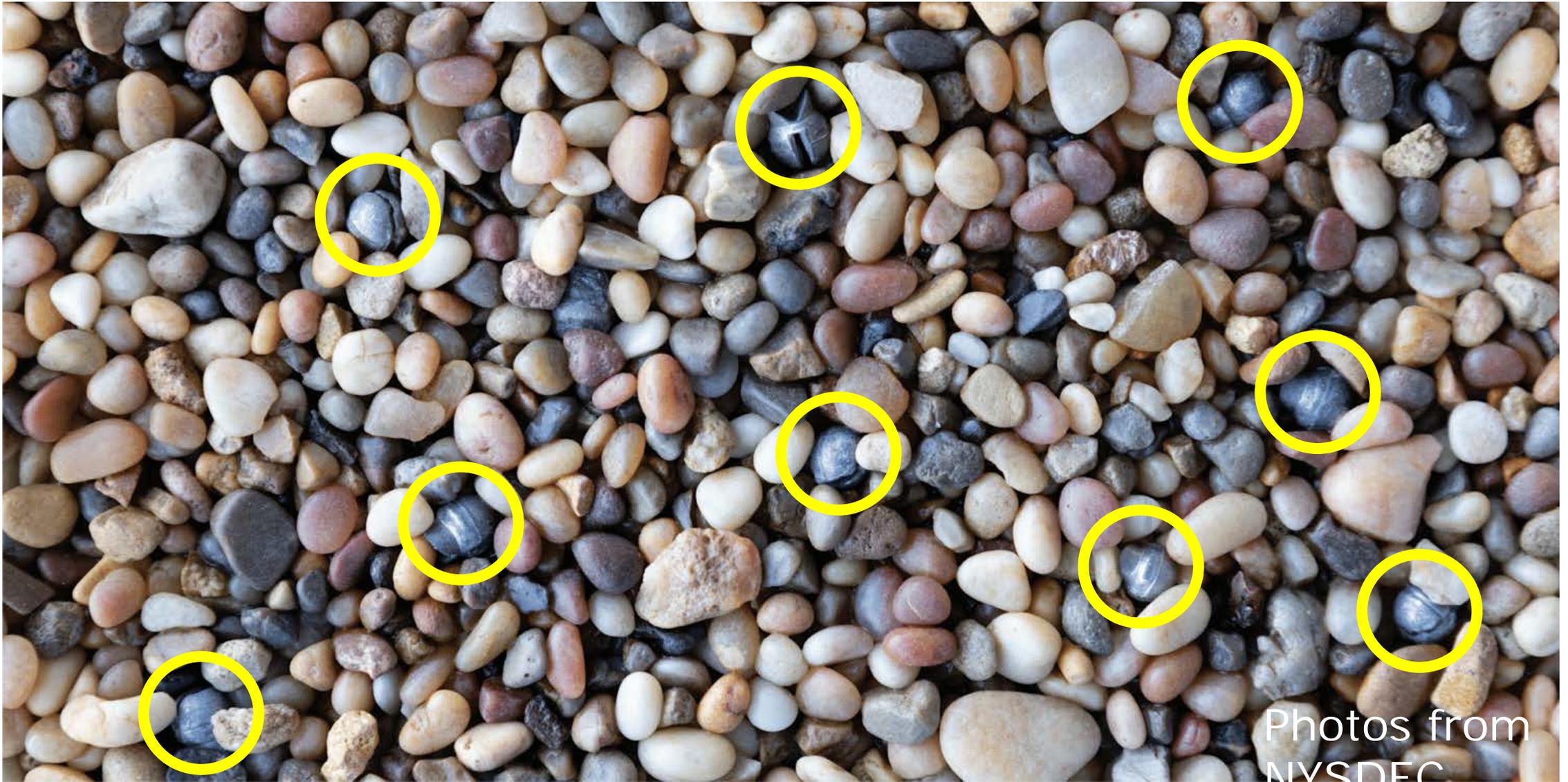
Once lead tackle is ingested, it is broken down in the gizzard and passes into the bloodstream and organs.

Is it a rock or a split shot?



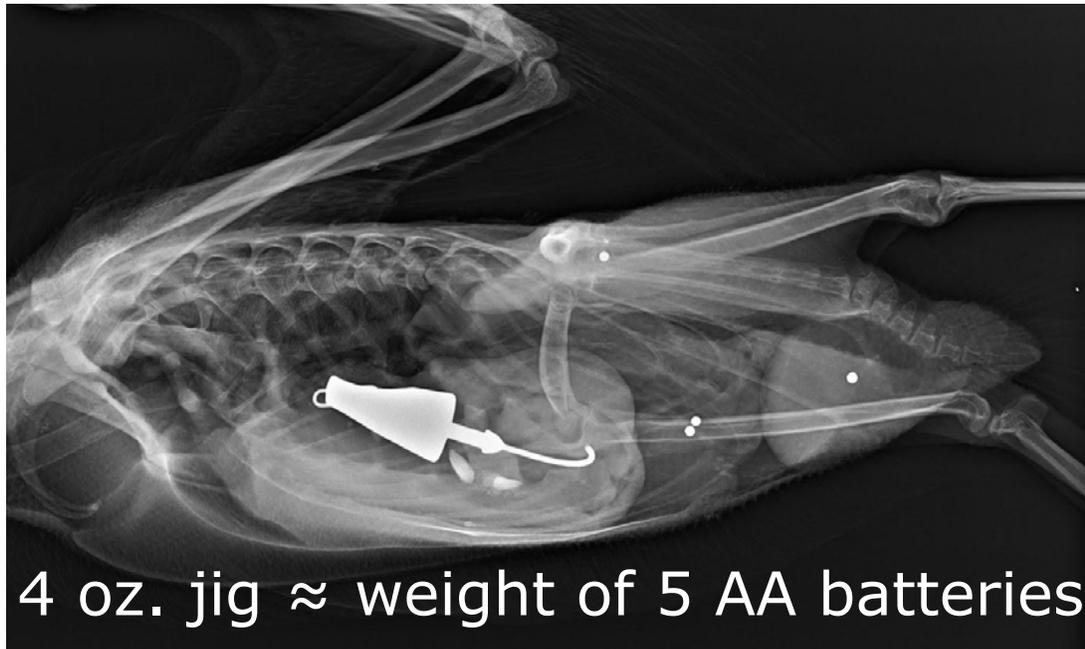
Photos from
NYSDEC

Is it a rock or a split shot?



Photos from
NYSDEC

Lead of any size is fatal



4 oz. jig \approx weight of 5 AA batteries

Loon Preservation Committee & Dr. Mark Pokras
Cummings School of Veterinary Medicine at Tufts University



Lead-Free Options

Tungsten • Bismuth • Steel • Tin • Metal Composite • Glass



Our list of over 100 lead-free tackle retailers:



Pre-Pandemic Annual Goals

- Education:
 - Teach 5000 students
- Outreach:
 - Distribute 6000 sample packs
 - Attend 3 sport shows
 - Hold 50 tackle exchanges
- Lead collection:
 - Collect and recycle 1000 pounds of lead tackle
- Point of Purchase Displays:
 - Secure 30 retailers for displays of lead-free tackle



Continuous adaptation: Education

- Taught 1000 kids in K-12 statewide *virtually* in 2020-2021
- Began transition to in person school outreach in 2022
- Given out over 500 tackle kits at summer camps (2021-2022)



Continuous adaptation: Outreach

Social media



 **leadoutmn** Tungsten isn't only for ice fishing. It can be used year round! @kendersoutdoors sells quality and affordable tungsten jigs and rip baits that will get you "katching" more fish!

All featured businesses are randomly selected from our list of lead-free tackle manufacturers. Link in bio.

Photo Credit: Kenders Outdoors

15w

 **leadoutmn** #ManufacturerMonday #KendersOutdoors #KatchFish #GetTheLeadOut #GTLO #LeadOutMN #LeadFreeFishing #LeadFreeTackle #LeadFreeLures

Liked by  sportingleadfree and 35 others

AUGUST 16

 Add a comment... Post

Stock up on
lead-free tackle this
holiday season!



Continuous adaptation: Outreach



Northwest Sports Show -
Minneapolis



Legacy of the Lakes Museum -
Alexandria

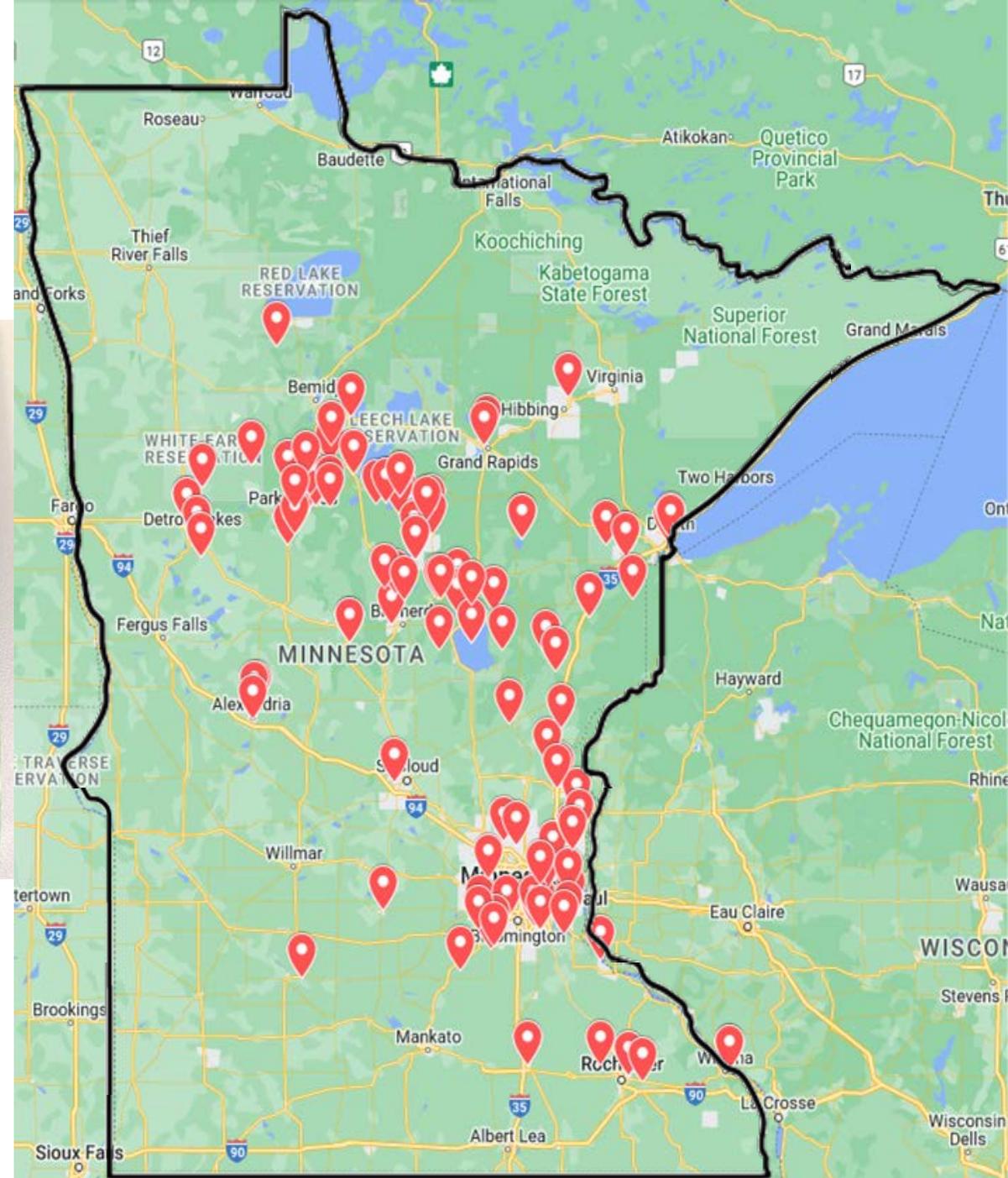
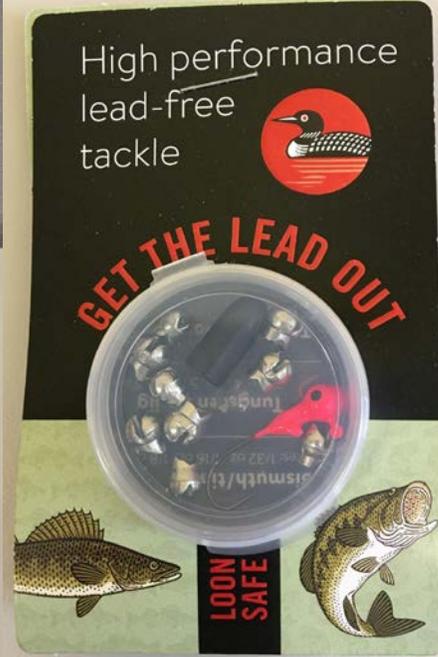


Shakopee
Mdewakanton Sioux
Community

MINNESOTA STATE FAIR



Continuous adaptation: Lead Collection



Lead Collection Partners

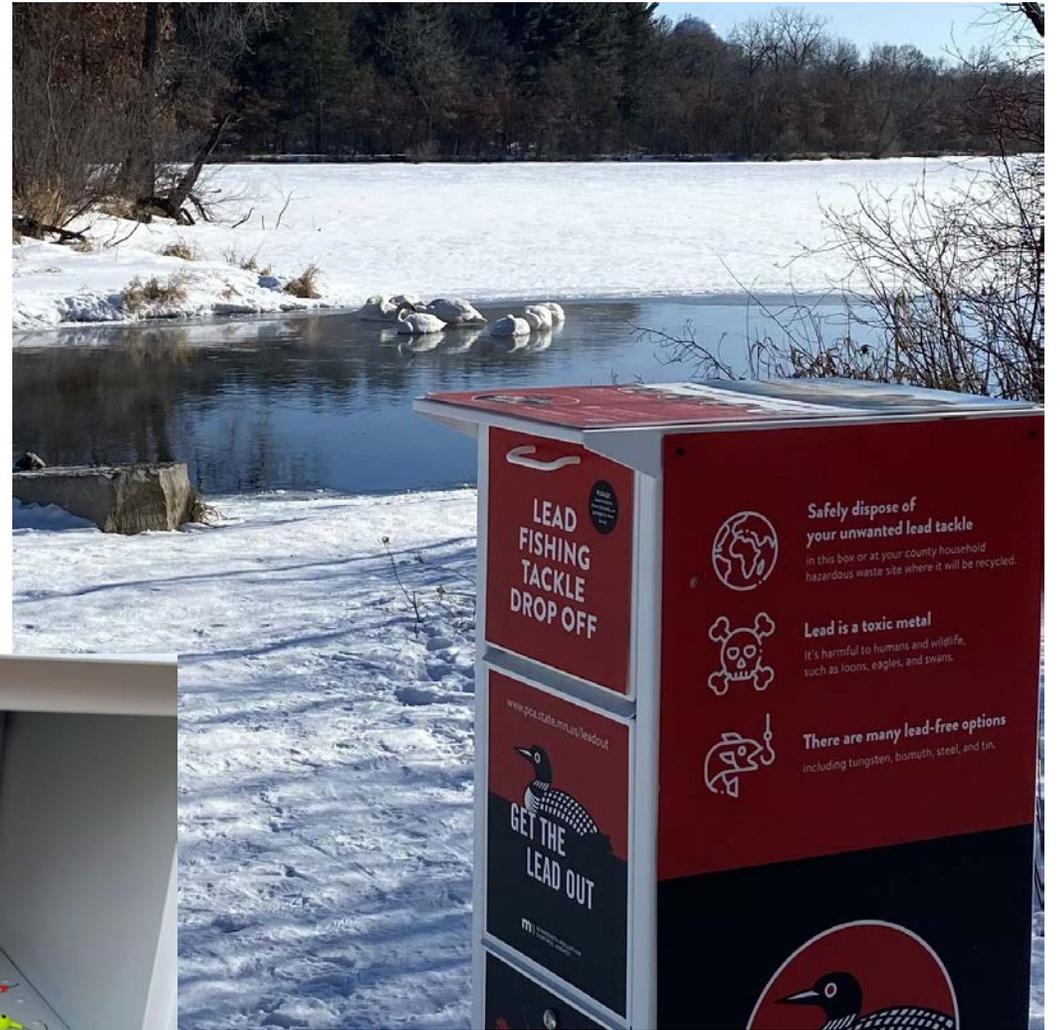


National Loon Center (Crosslake)



Crooked Lake Township

Lead Collection Partners





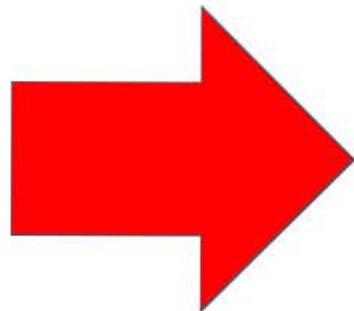
Floor Display

- \$850 cost to you
- \$1700 retail sales at MSRP



Countertop Display

- \$450 cost to you
- \$900 retail sales at MSRP



Lead-Free Fishing Tackle Rebate Program Open!



m a MINNESOTA POLLUTION CONTROL AGENCY

What can you do?

- **Buy** lead-free tackle.
- **Recycle** lead tackle properly.
- **Share** about the danger of lead to wildlife.
- **Protect** yourself from lead when fishing and hunting by washing your hands before eating and drinking.



Thank you!



GET THE LEAD OUT

Program Email:
leadout@state.mn.us



@LeadOutMN



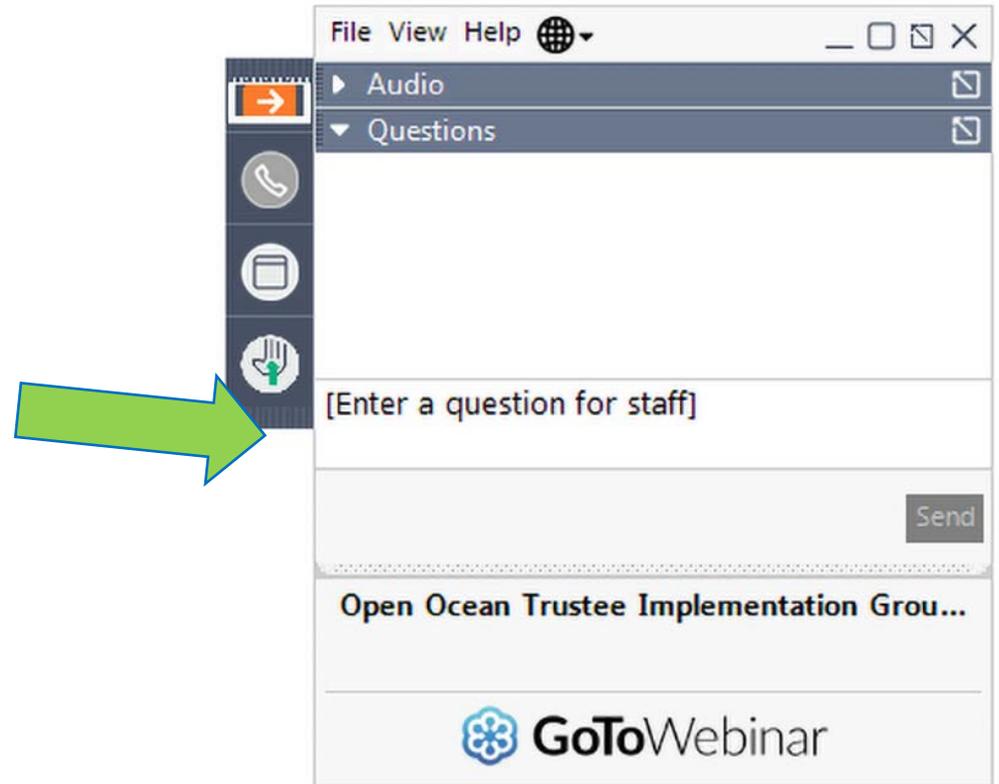
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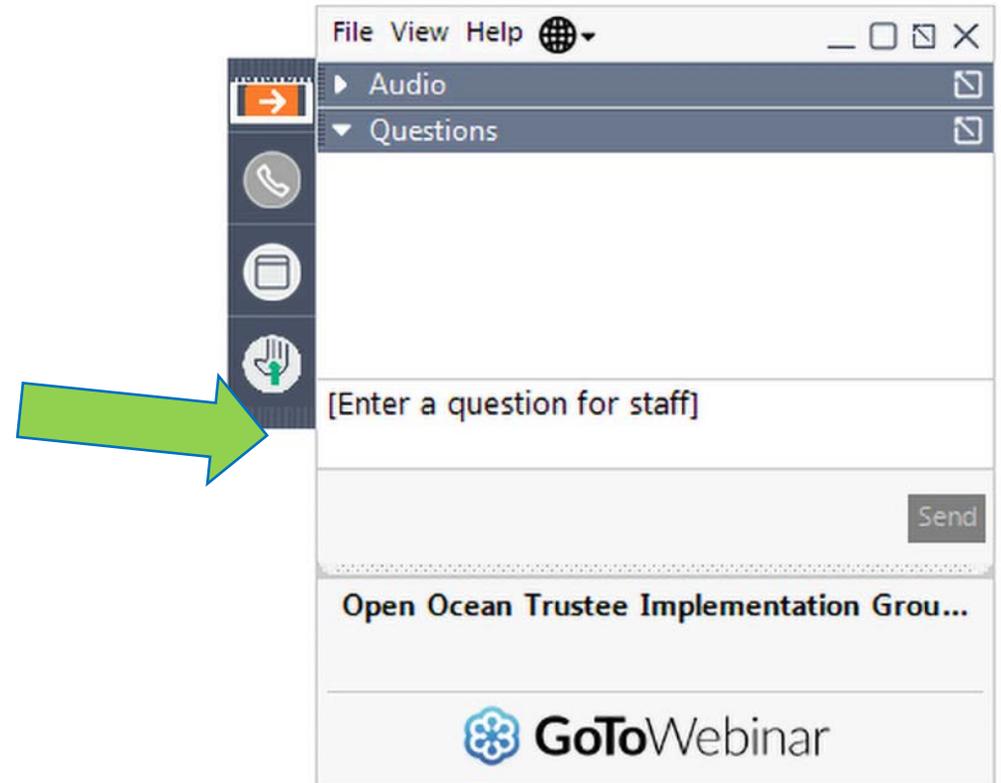
We'd Like to Hear From You



Questions



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