

Ballast Presentation HB 137

Peter MacCallum

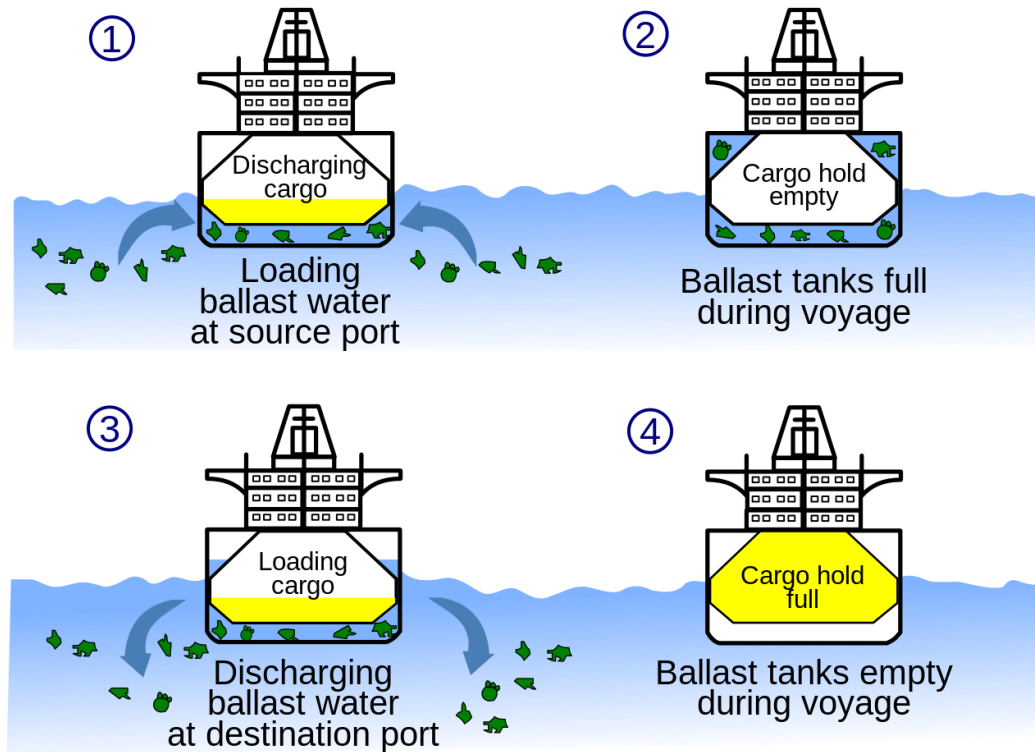
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Objectives of Presentation

- What is ballast?
- Boat Types that have OEM ballast
- Design and Placement
- Market Data
- Videos
- Best Practices



- “It is believed that Zebra Mussels were introduced into North America through the emptying of ballast water from commercial transatlantic ships into the Great Lakes.”
- “Cargo ships carry significant amounts of ballast water to stabilize the vessels during transoceanic crossings. When ballast tanks are filled, many forms of aquatic life in the source water are drawn into the tanks. Once in ballast tanks, organisms can be transported to other areas and subsequently discharged into waters at foreign ports.”

- <https://www.lakegeorgeassociation.org/educate/science/lake-george-invasive-species/zebra-mussel/>

US Zebra Mussel Infestation from 1986-2019

HUC Layers

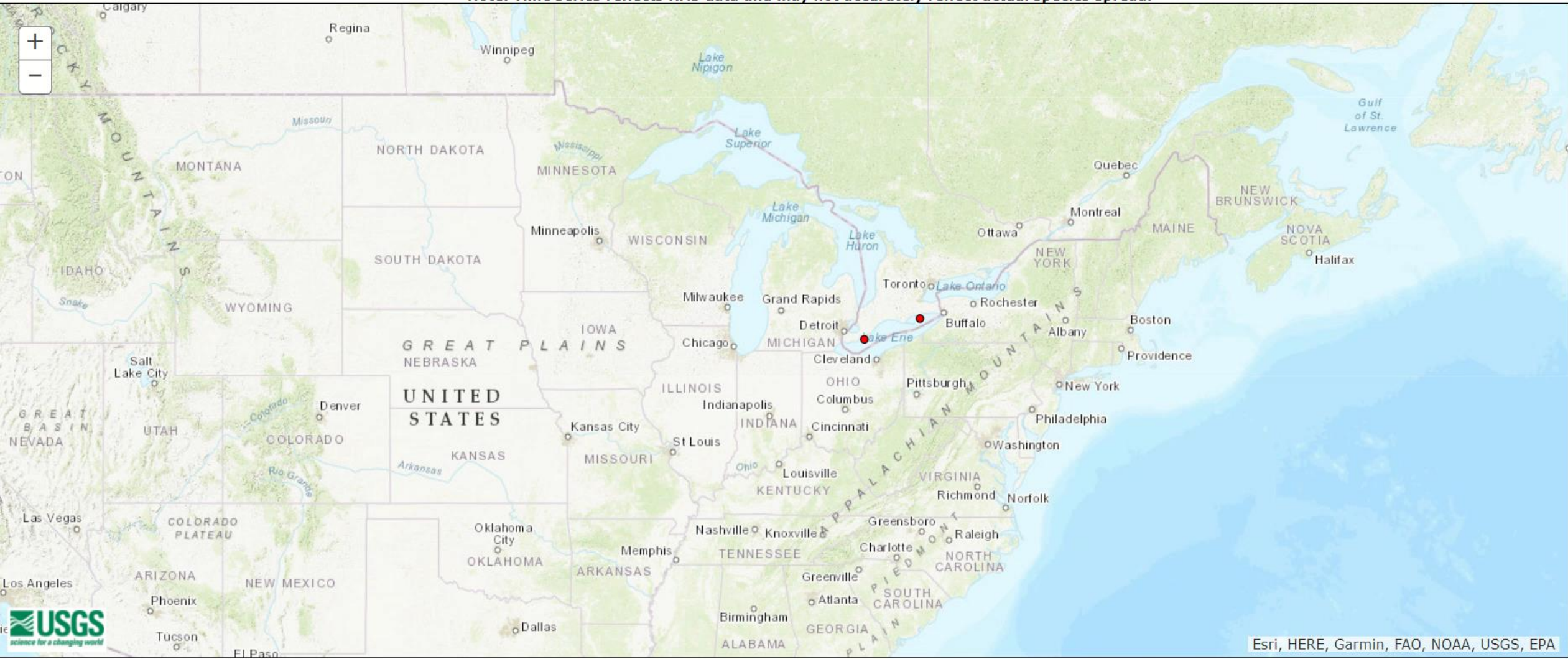
- HUC 8 HUC 8 Labels
- HUC 6 HUC 6 Labels
- HUC 2 HUC 2 Labels

- Cumulative
- Skip years with no recorded sightings

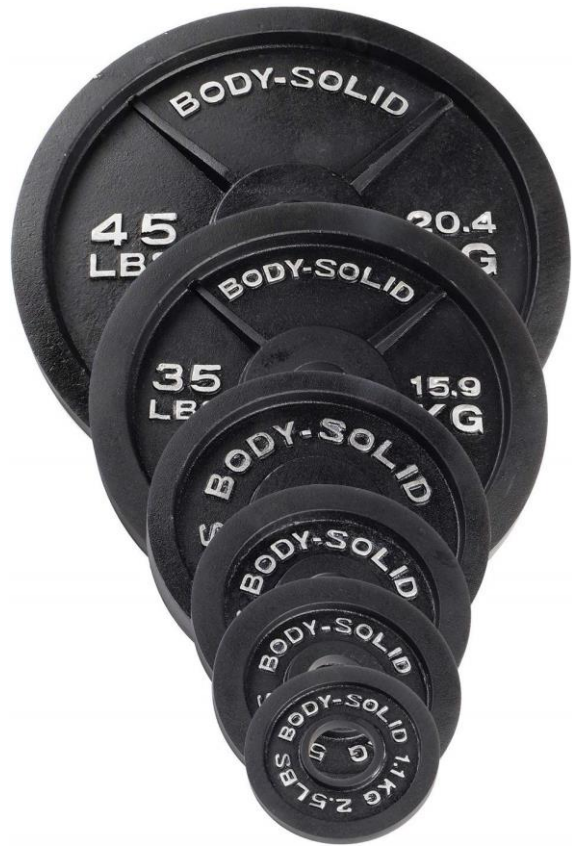


1986

Note: Time series reflects NAS data and may not accurately reflect actual species spread.



Ballast can be any type of weight; however these are the most common: steel weight, concrete, steel shot and water.



Recreational Boats with Ballast

Inboard V-Drive



Recreational Boats with Ballast

Center Console Jet Fishing



Recreational Boats with Ballast

Reversing Stern Drive Runabout/Bowrider



Recreational Boats with Ballast

Deckboat/Fish



2 Most Popular Ballast Types

Manufactured by Eight.3, FlyHigh, Straight Line, & WakeMakers

Soft-sided Portable Bag

Weighted min/max 125 to 1,450lbs

Capacity range up to total 173 gallons (8.34 lbs/gallon)



Hard Fixed Tank

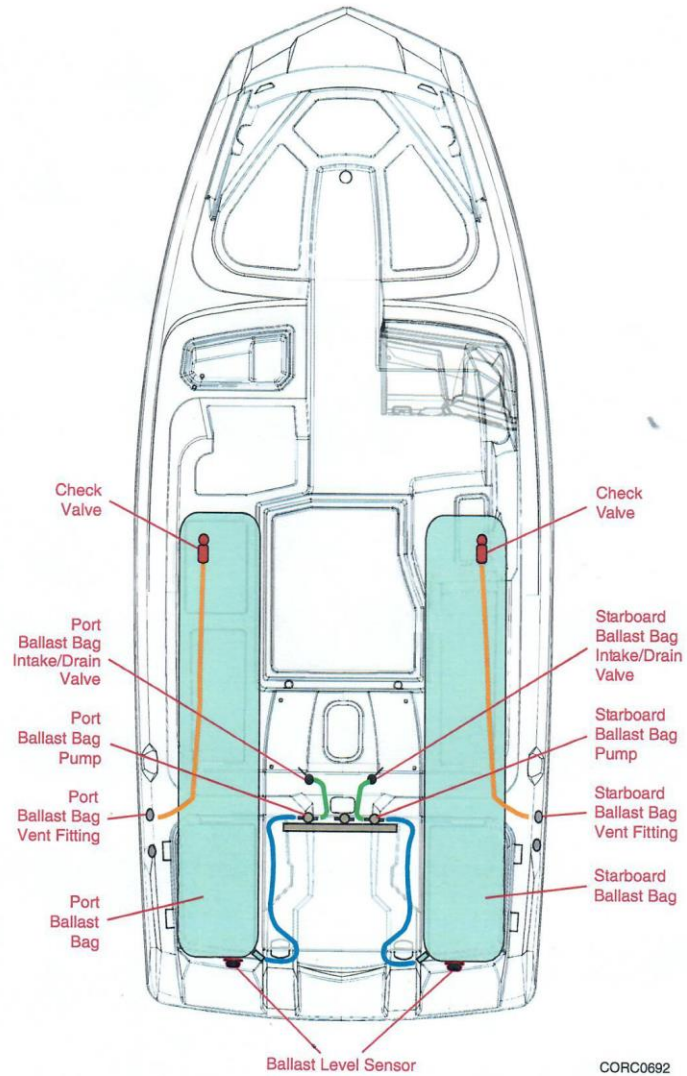
Weighted min/max 250 to 1180lbs

Capacity Range up to total 141 gallons (8.34 lbs/gallon)



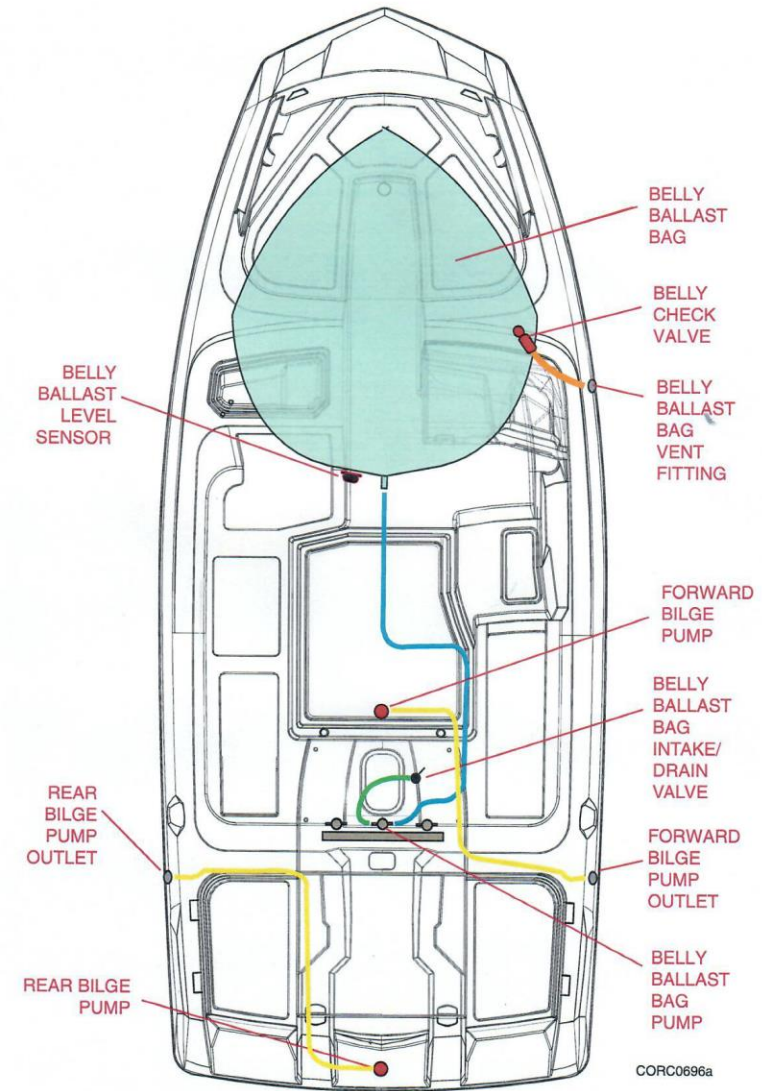
Section 4

Port and Starboard Ballast Bags - GS20, GS22, GS24



Boat Systems

Belly Ballast Bag and Bilge System - GS20, GS22, GS24



2020 Manufacturers Offering OEM Ballast Systems

Nautique

MasterCraft

Malibu

Axis

Supra

Moomba

Tige

Centurion

Supreme

MB

Sanger

Yamaha

Calabria

Bryant

Regal

HeyDay

Sea Ray

Monterey

Four Winns

Glastron

Chaparral

Scarab

Cobalt

Pavati

2020 Ballast Boat Dealers in New Hampshire

Nautique – MacCallum’s Boathouse, Melvin Village Marina

MasterCraft – Goodhue Boat Company

Malibu – East Coast Flightcraft

Axis – East Coast Flightcraft

Supra – Silver Sands Marina

Moomba – Silver Sands Marina

Tige – Meredith Marina

Centurion – Silver Sands Marina

Yamaha – Irwin Marine

Bryant – Paugus Bay Marina

Regal – Silver Sands Marina

Hey Day – Winnisquam Marina

Sea Ray – Irwin Marine

Monterey – Irwin Marine

Four Winns – MacCallum’s Boathouse, Melvin Village Marina, Bob’s Beacon Marina

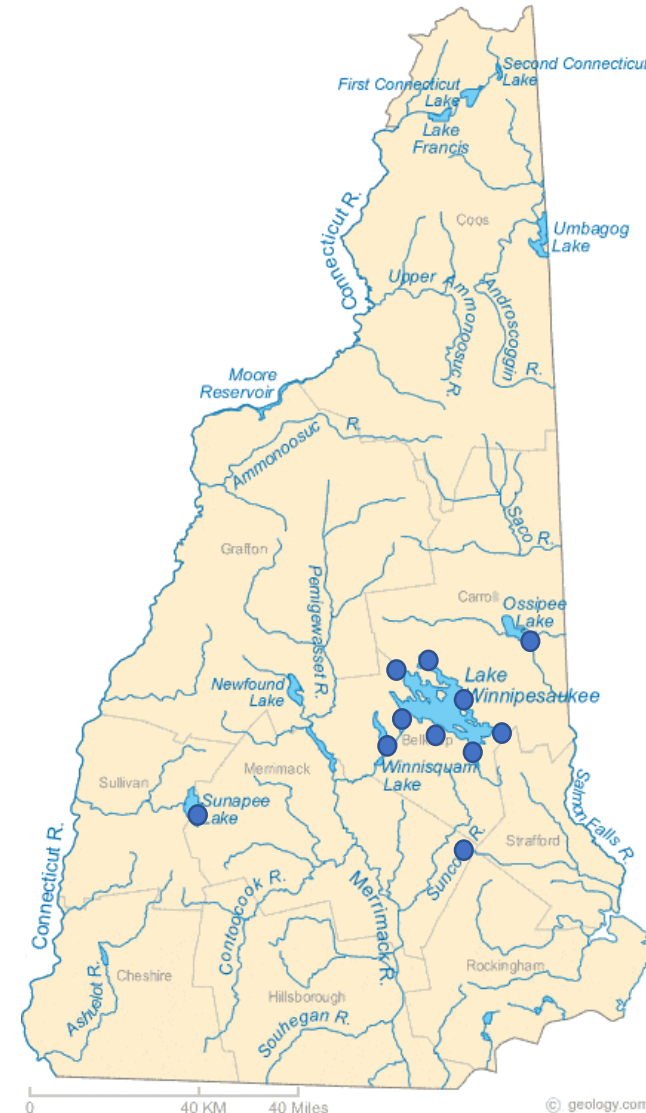
Glastron – Fay’s Boat Yard

Chaparral – Goodhue Boat Company

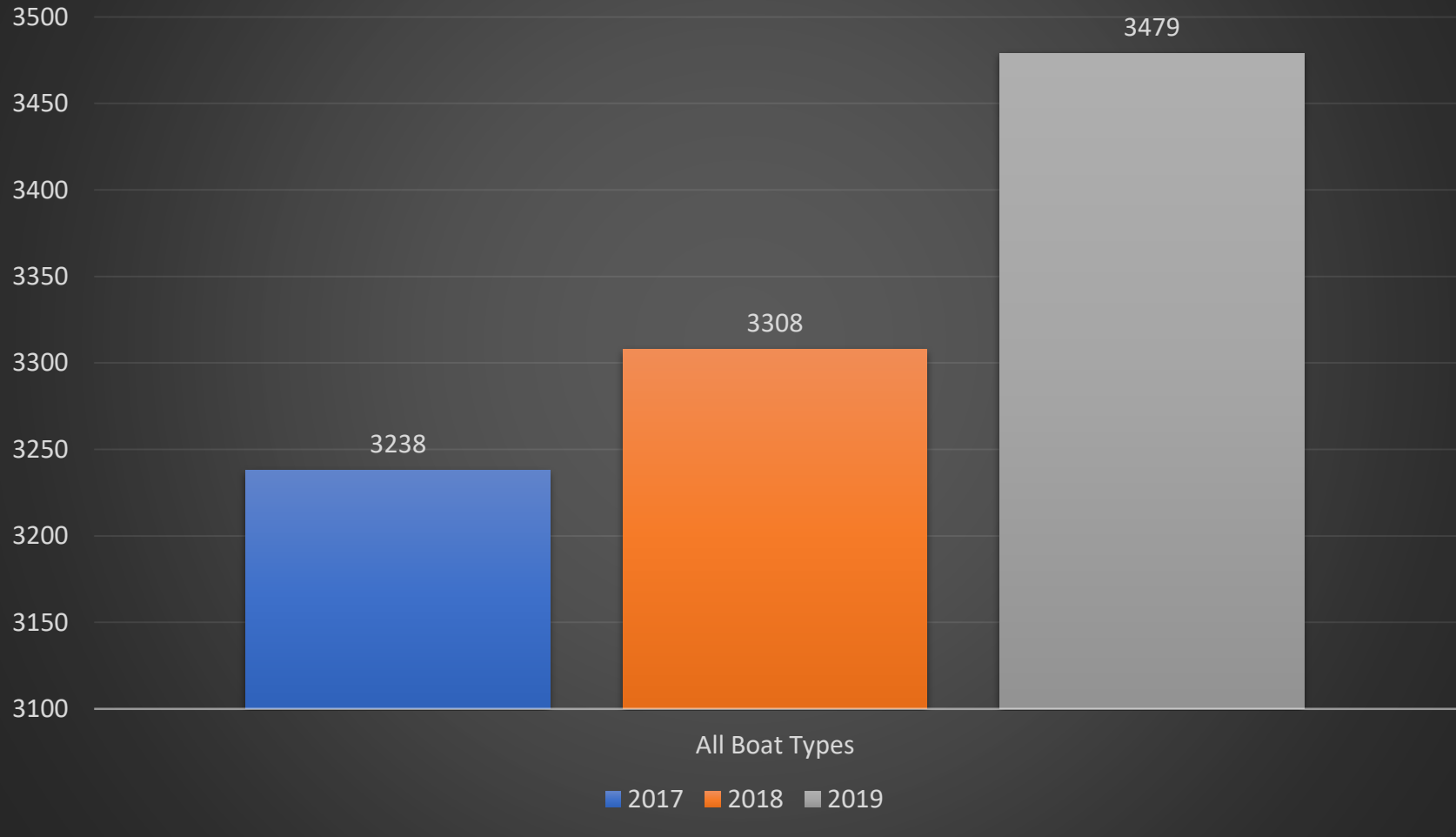
Scarab – Fay’s Boat Yard

Cobalt – East Coast Flightcraft, Goodhue Boat Company

**19 Manufacturer’s
Represented by 11
Authorized Dealers**

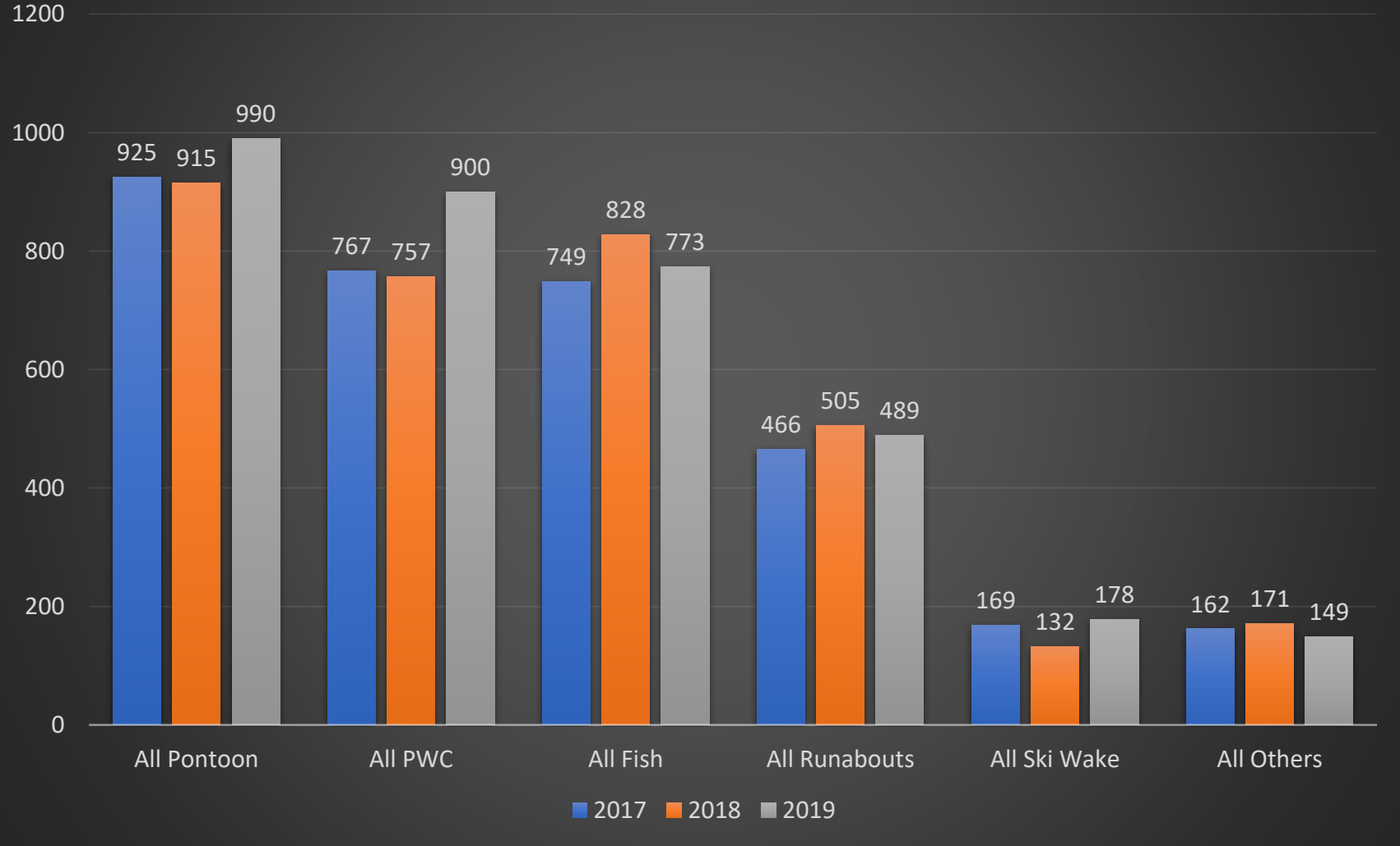


All NEW Boat Sales in New Hampshire 2017, 2018, 2019*



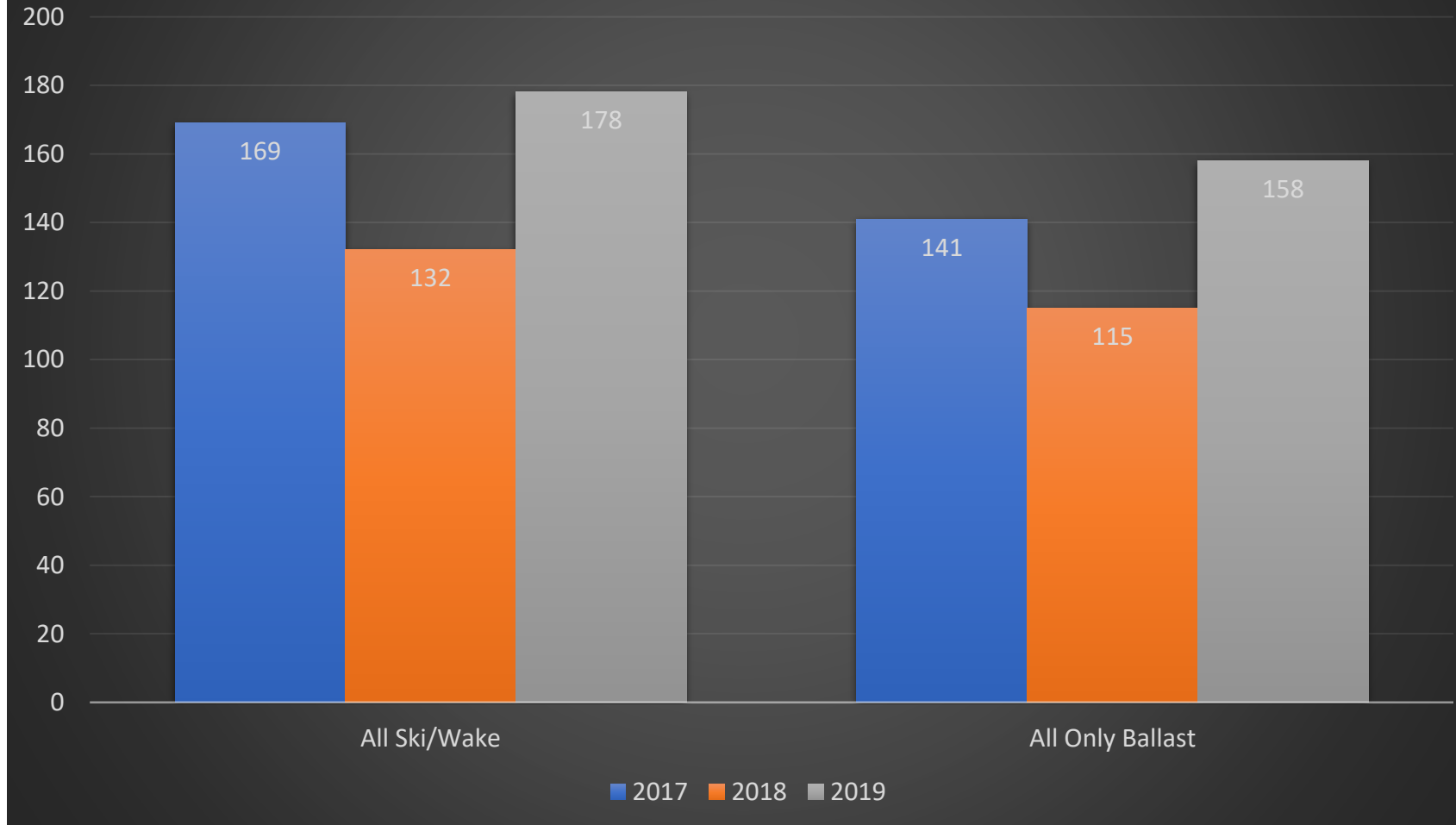
*Source: Statistical Surveys, 1693 Sutherland Dr. SE, Grand Rapids, MI 49508 616-281-9898

NEW Boat Sales (by type) in NH 2017, 2018, 2019*



*Source: Statistical Surveys, 1693 Sutherland Dr SE, Grand Rapids, MI 49508 616-281-9898

NEW Ski/Wake Boats vs NEW Only Ballast Boats Sales in NH June 30*



*Source: Statistical Surveys 1693 Sutherland Dr. SE, Grand Rapids, MI 49508 616-281-9898

Top 5 Market Share Dealer Survey 12/11/19

(92% of Wake Boats Sold)

Sample of Dealer Survey Letter

Dear Dealer,

Hope all is well with you and the team, and that you have enjoyed a strong selling season!

I have a presentation coming up for the wake boat study commission on Jan 6, 2020 at the Statehouse in Concord. I am compiling field data for the ballast presentation and am asking for a few minutes of help to answer one question:

1) If you were to assess all of the ballast equipped boats your company sold the last 3 seasons, what percentage of these units were expected to be trailered from lake to lake?

Can you check into this and get back to me this week or early next?

Thanks very much!

Regards,

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Responses to Dealer Survey Letter

MacCallum's Boathouse – Nautique Boats – 1% Lake to Lake

Melvin Village Marina – Nautique Boats – 0% Lake to Lake

Goodhue Boat Company*

- Shep Brown Boat Basin – MasterCraft – 7% Lake to Lake
- Goodhue & Hawkins – MasterCraft and Malibu – 3% Lake to Lake

East Coast Flightcraft – Malibu & Axis – 4% Lake to Lake

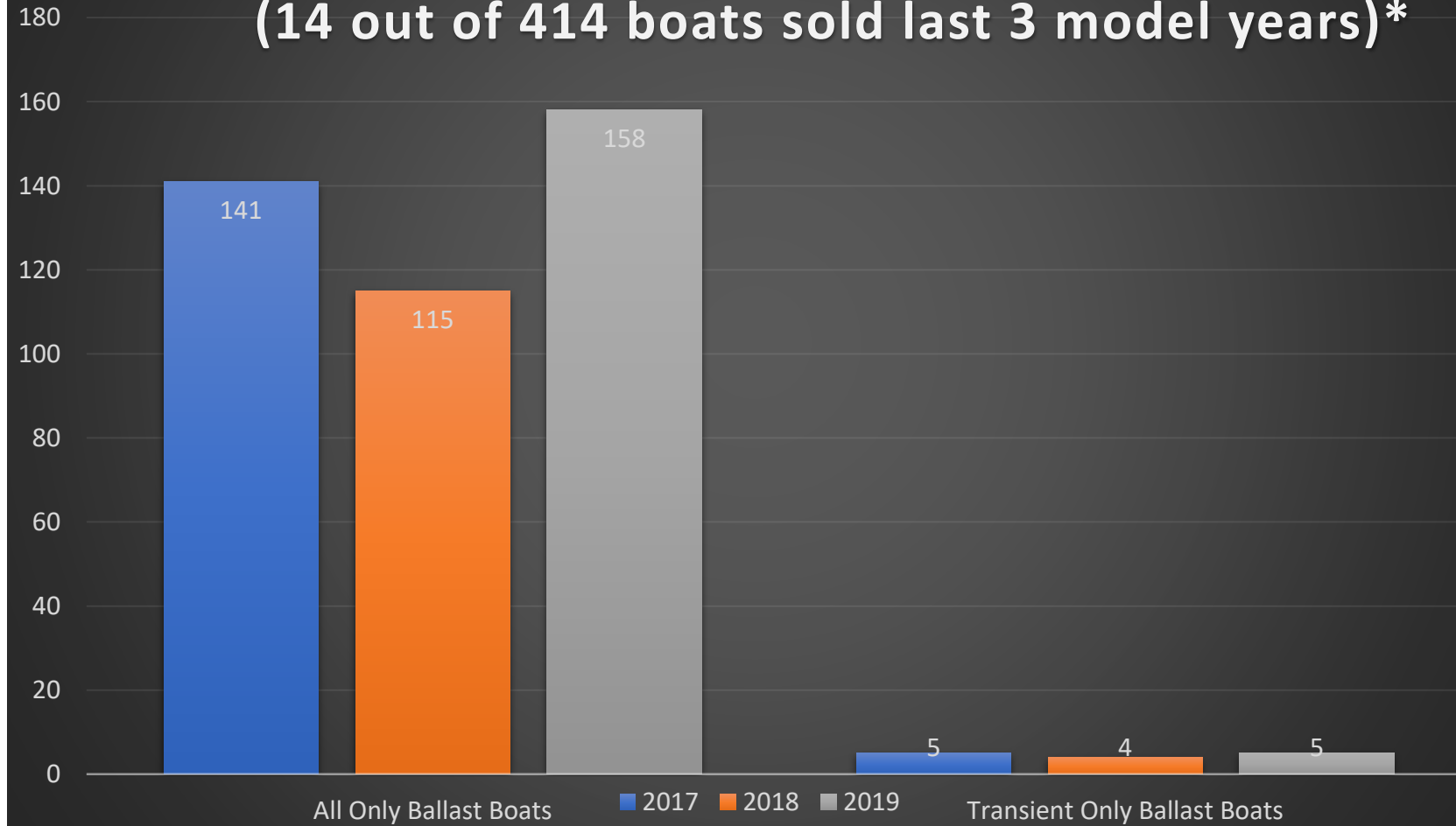
Silver Sands Marina – MasterCraft, Supra and Moomba – 4% Lake to Lake

**Blended Average of Wake Boats Sold that travel
Lake to Lake is 3.33%.**

*90% of sales do not include trailers

Lake to Lake Transient Only Ballast New Boats in NH

(14 out of 414 boats sold last 3 model years)*



*Source: Only Ballast New Boat Dealer Survey 12/11/19

Utah Outboard/Pontoon Video



AIS on Mercury Outboard Pontoon Engine



Clean, Drain & Dry #1



<https://www.youtube.com/watch?v=sYVic4S3p4s>

Best Practices for AIS prevention

- Allow NEW New Hampshire Laws recently created and passed to begin to work! Best practices to continue by following NEW (and existing) NH State law Clean/Drain/Dry programs #Section 487:43, 487:16-e (exhibits to follow)
- RAISE AWARENESS AMONG ALL...broaden awareness through EDUCATION and VIDEO to include all powerboats, fishing, sail and paddle products
- Decontamination and inspections take place BEFORE LAUNCH and AFTER HAUL-OUT. Consider decontamination timing inspection process. Look to the other state processes. Reference Lake Tahoe Videos
- Recommend adding “Ballast Care and Maintenance” to aid awareness steps to NH Boating Education training, NH Boater’s Guide and Online Boat-Ed Study Course (exhibits to follow)

TITLE L

WATER MANAGEMENT AND PROTECTION

CHAPTER 487

CONTROL OF MARINE POLLUTION AND AQUATIC GROWTH

Aquatic Invasive Species Decal

Section 487:43

487:43 Aquatic Invasive Species Decal. –

I. No person shall operate a powerboat registered in another state on New Hampshire public waters without displaying a New Hampshire aquatic invasive species decal from the department of environmental services.

II. Boats operating on interstate waters shared with the state of Maine shall be exempt from the requirement in paragraph I if they are displaying the equivalent aquatic invasive species decal issued by that state. The provisions of this paragraph shall not be valid unless the state of Maine enacts legislation that is substantially the same as the decal requirements in this section and gives reciprocal exemptions to a boat displaying the New Hampshire aquatic invasive species decal.

III. A decal shall be purchased from the department for \$20. The revenue from each decal shall be distributed to the lake restoration and preservation fund established in RSA 487:25 in the same proportions as the addition to the boat fee under RSA 487:25, I.

IV. The New Hampshire aquatic invasive species decal shall:

(a) Be displayed within 3 inches of a boat's valid registration decal.

(b) Expire on December 31 each year.

(c) Change color each calendar year. The color of the decal shall not conflict with the New Hampshire registration validation decal in any year.

(d) Measure 3 inches by 3 inches.

V. Failure to purchase or display the New Hampshire aquatic invasive species decal in accordance with this section shall be a violation. For purposes of this section, the boat operator shall have 48 hours to demonstrate compliance with this section. The boat operator may present proof of purchase with a valid transaction date as proof of compliance.

VI. Any person who violates this section shall be guilty of a violation punishable by a fine of \$50 for a first offense, \$100 for a second offense, and \$250 for any subsequent offense. The authority to enforce these sections shall extend to all peace officers in the state of New Hampshire. All fines collected under this paragraph shall be paid to department of safety for deposit into the navigation and safety fund established in RSA 270-E:6-a.

VII. The commissioner may enter into contracts with individuals, public or private corporations, or institutions for assistance in developing, implementing, and issuing the aquatic invasive species decal. The commissioner shall adopt rules under RSA 541-A relative to any matters necessary to implement the provisions of this subdivision.

Source. 2019, 114:1, eff. July 1, 2019.

TITLE L

WATER MANAGEMENT AND PROTECTION

CHAPTER 487

CONTROL OF MARINE POLLUTION AND AQUATIC GROWTH

[RSA 487:16-e effective until January 1, 2020; see also RSA 487:16-e set out below.]

487:16-e Penalties. – Notwithstanding RSA 487:7, any person who violates RSA 487:16-c through 487:16-d shall be guilty of a violation punishable by a fine of \$50 for a first offense, \$100 for a second offense, and \$250 for any subsequent offense. The authority to enforce these sections shall extend to all peace officers in the state of New Hampshire.

Source. 2016, 227:4, eff. Jan. 1, 2017.

[RSA 487:16-e effective January 1, 2020; see also RSA 487:16-e set out above.]

487:16-e Use of Best Available Technology at Public Boat Access Sites. –

I. Public boat access facility owners such as state agencies and municipalities, may provide various technologies including, but not limited to, garden hoses, cleaning tools or units, and decontamination units at their access sites for the purposes of cleaning, draining, drying, or decontaminating boats, trailers, and aquatic gear in order to prevent the spread of aquatic exotic invasive species.

II. Prior to entering and after exiting the waterbody through a boat access facility, boaters using public boat access facilities shall use the clean, drain, dry, or decontamination technology made available at that site when such technology is available, without cost, and not otherwise restricting access to the public waterbody.

Source. 2019, 100:1, eff. Jan. 1, 2020.

the BOATER'S GUIDE OF NEW HAMPSHIRE A HANDBOOK OF BOATING LAWS AND RESPONSIBILITIES

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NINTH EDITION



Aquatic Nuisance Species

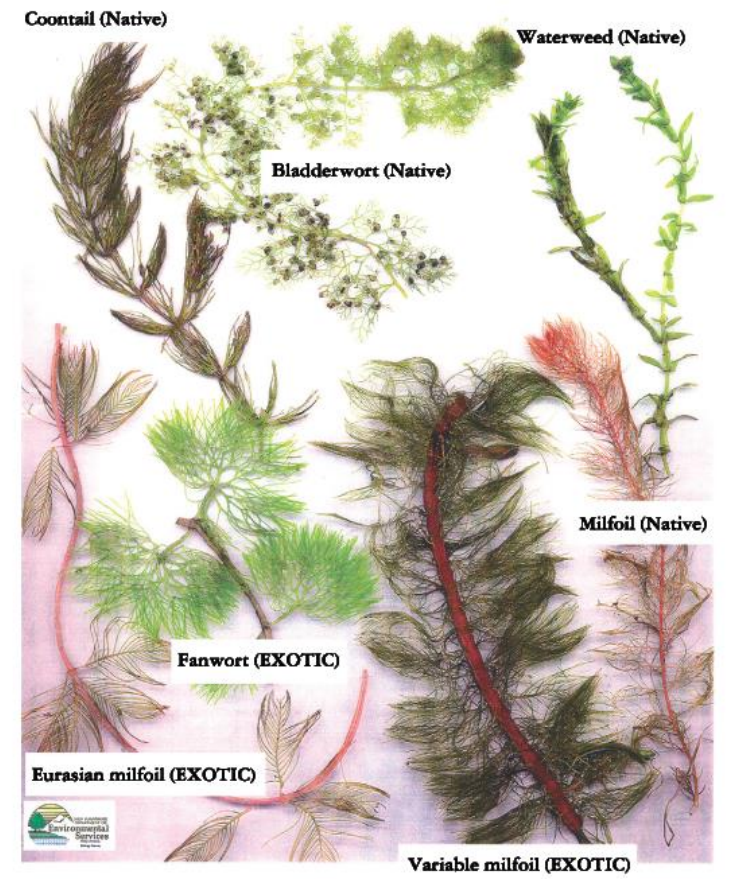
Here's what you can do to prevent the spread of aquatic nuisance species.

- ✓ Inspect your boat and trailer, removing all aquatic organisms (zebra mussels and any aquatic plants) you see before leaving the area.
- ✓ Drain your motor, live well, and bilge on land before leaving the area.
- ✓ Empty bait buckets on land before leaving the area.
- ✓ Never release live bait into a body of water or release aquatic animals from one body of water into another.
- ✓ Rinse your boat, propeller, trailer, live well, and equipment; and remove by hand anything trapped between the boat and trailer.
- ✓ Air-dry your boat and equipment for as long as possible—five days is optimal.
- ✓ Flush the engine's cooling system with hot water.
- ✓ Apply antifouling materials, such as paint and films, to boat hulls, trim tabs, water ports, transducers, and swimming platforms to discourage zebra mussel attachment.
- ✓ Avoid boating through dense beds of aquatic plants.
- ✓ Report any new suspicious plant growths to the NH DES at 603-271-2248.

What is New Hampshire doing to combat exotic aquatic plants?
The Lake Host Program was developed to prevent new infestations of exotic aquatic plants in New Hampshire's lakes and ponds. Volunteers conduct quick and friendly inspections of your boat, trailer, and other recreational gear for exotic plants that may have become attached.

For more information about exotic species or to become a Weed Watcher, call the NH DES at 603-271-2248 or visit www.des.nh.gov/organization/divisions/water/wmb/exoticspecies/index.htm

Commonly Confused Look-Alike Aquatic Plants



Introducing harmful, non-native organisms into New Hampshire's waters can lead to environmental damage and declines in the aesthetic and recreational appeal of our lakes, ponds, and rivers. The law prohibits the transport and introduction of exotic aquatic plants in New Hampshire!

New AIS Prevention Technology and Concepts from Boating Industry

#1 Proprietary, patent pending technology on the immediate horizon...some technologies do not include water ballast. Efforts are not only manufacturer driven but at marketplace level (ie. Mussel master)

#2 OEM Decontamination/Prevention solutions may include:

- a) Low voltage electrical current to ballast tanks**
- b) High temp water heat flush port**
- c) High temp heated air**
- d) Accepted and eco-friendly biodegradable detergents and bleach solvents**
- e) Ultraviolet light treatment scan**
- f) Filtration System**

#3 Retail Dealer to Customer Training Programs

Heidi Wold, invasive species supervisor for the DNR from Minnesota, underscored that the name of the game with invasive species is to reduce the likelihood of transport. Under that strategy, wakeboard boats shouldn't be singled out, as much as the boat operators should be urged to be vigilant. **“There are really simple measures to reduce the risk,”** Wolf said. **“The boat user can interrupt the pathway. It doesn't mean that a wakeboard boat is a higher risk if it's drained, compared to another boat that isn't drained. Every step reduces the risk.”**

Statistical Surveys
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THANK YOU
for your attention!!

Questions?