



Preventing Invasive Species Introductions: Species Listings vs. Pathway Management

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From the Beginning ... the Lacey Act

- Originally prohibited importing four species found injurious to agricultural and horticultural interests: the mongoose, fruit bat, English sparrow, and starling.
 - Today, over 236 species of mammals, birds, fish, mollusks, crustaceans, and reptiles have been “blacklisted” by Congress and the FWS.
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Black vs. White Lists

- Black lists restricts species identified as harmful.
 - White lists restrict all species not identified as permissible.
 - Innocent until Proven Guilty!
 - Guilty until Proven Innocent!
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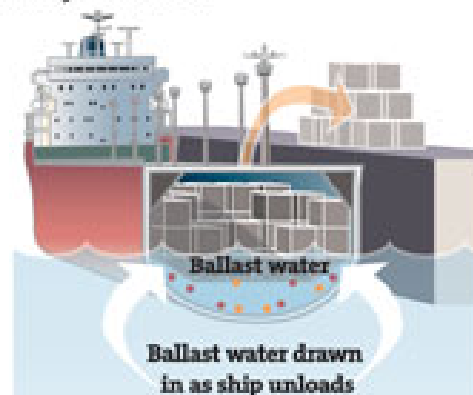
Shifting to Pathways

BALLAST WATER BRINGS UNWANTED SPECIES

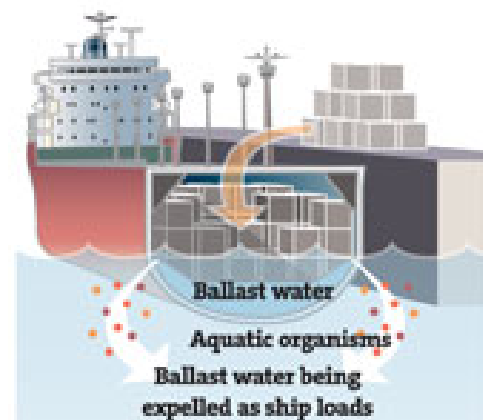
Oceangoing ships fill ballast tanks with millions of gallons of water for stability when their cargo holds are empty. The water may contain creatures that can be carried into the Great Lakes. Even empty ballast tanks hold residual water and mud that may contain tiny creatures.



A ship at a foreign port loads cargo and discharges ballast water. Small marine organisms may be in the tanks' residual water and mud. The ship departs for the Great Lakes.



At a Great Lakes port, the ship takes on ballast water as it unloads cargo. The freshwater mixes with the residual water and mud that may contain organisms from a foreign port.



The ship takes on a new cargo in Duluth or other Great Lakes port for its return trip. Ballast water is discharged, along with any invasive species.

Source: Star Tribune research

RAY GRUMNEY • Star Tribune

Mix it Up!

- Species Listings
 - Raise Public Awareness
 - Intentional Trade and Introductions
 - Pathway Regulation
 - Reduce Overall Risk
 - Manage Unintentional Movement
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Questions? Comments?

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