



*Invasive Species  
Prevention  
&  
Ballast Water Management*

*HOUSE COMMITTEE ON  
AGRICULTURE AND NATURAL RESOURCES  
MARCH 2015*



State of Oregon  
Department of  
Environmental  
Quality

# Aquatic Invasive Species

- At least 60 non-indigenous species established in lower Columbia River and Coos Bay.
- Hundreds of species established in Great Lakes and San Francisco Estuary.
- Widespread consequences (direct and indirect) to economy and environment.





# Mid-Ocean Ballast Water Exchange (BWE)



## BWE: Before & After

1/22/09 Before Exchange

1/26/09 After Exchange

~ 28,000  
individuals/m<sup>3</sup>

~ 10  
individuals/m<sup>3</sup>

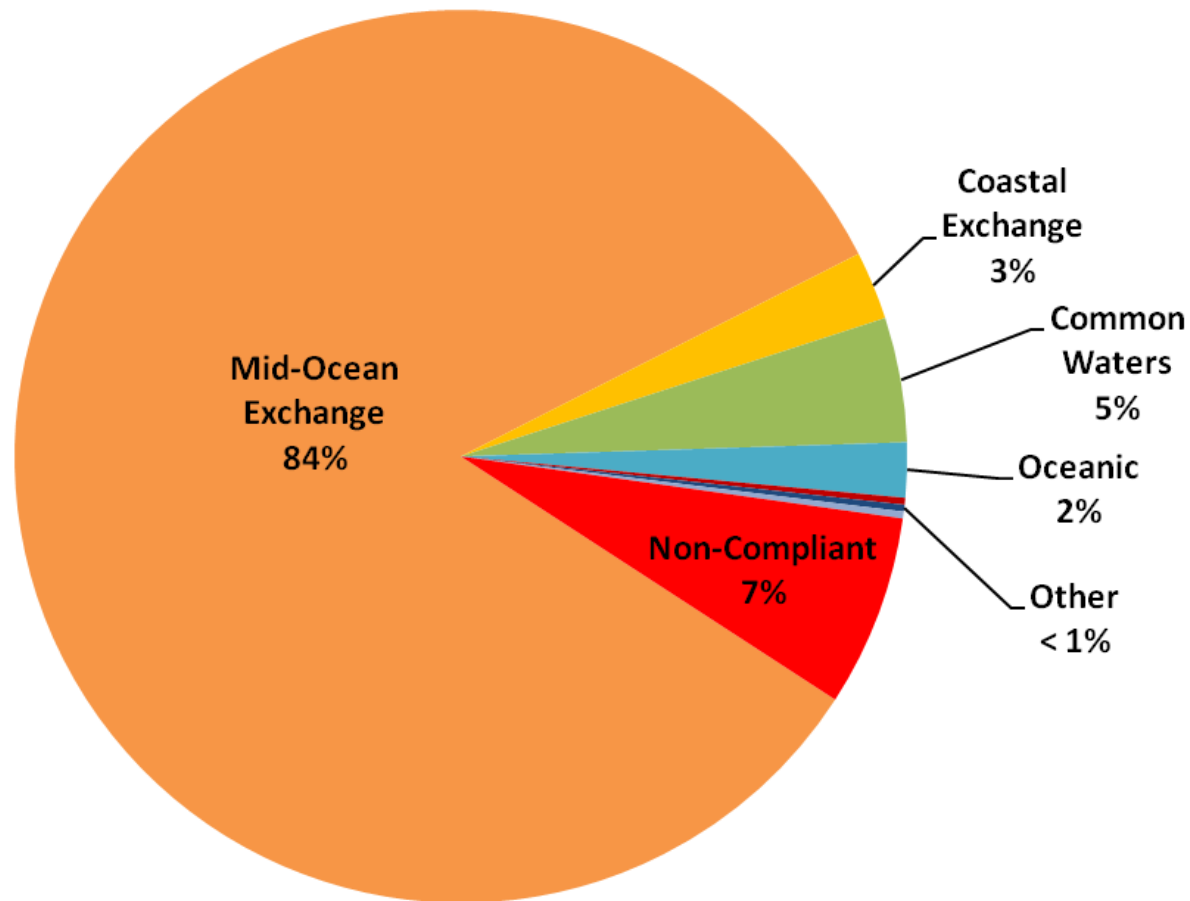
85% high-  
risk species

<4% high-  
risk species

Photo credit: J. Cordell

# Management Status of Ballast discharged to Oregon Harbors (2013/14)

~12 Million m<sup>3</sup> discharged each year



# Ballast Management Paradigm Shift

Oceanic Ballast Water Exchange (BWE)



Ballast Water Discharge Standards  
via Shipboard Treatment (BWT)



Implementation of new Federal Standards:

Effective 2014 for new build vessels;

Effective January 2016 for existing vessels (following 1<sup>st</sup> drydock)



# HB 2207 with -2 amendment

- I. Clarify EQC authority to adopt by rule standards and procedures that may include:**
  - a. Salt-water flushing requirements for vessels transiting to Oregon harbors with 'empty' ballast tanks**
  - b. Alternative management requirements for high-risk vessels using shipboard ballast treatment systems certified to meet Federal discharge standards.**



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- II. Distribute ballast management enforcement penalties to Invasive Species Control Account**
  - ODA account administered by the Oregon Invasive Species Council for the control or eradication of newly discovered invasive species within Oregon.



# Oregon Ballast Water Management Program



*Photo credit: B. Bjorndal*



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