

Ballast Water Program Update

Oregon Department of Environmental Quality

Pacific Ballast Water Group
6 April 2020

Outline

I. Program Summary

II. 2020 Trends

- i. Reporting
- ii. Arrivals
- iii. Discharge
- iv. Management
- v. Inspection

III. Future and Ongoing Projects

Oregon Ballast Water Program



- Regulations established in 2001
 - Significant amendments in 2005, 2009, 2011 & 2017
- Program funding:
 - Initial funding level of 1.0 FTE (2007) was increased to 1.5 FTE following implementation of new fee in 2012
 - Supported by 50/50 cost share between fee revenue and GF allocation
- Program activities include;
 - Monitoring of vessel arrivals and pre-arrival reporting compliance
 - Outreach & technical support
 - Vessel inspections & compliance verification sampling
 - Enforcement actions
 - Policy development & stakeholder engagement

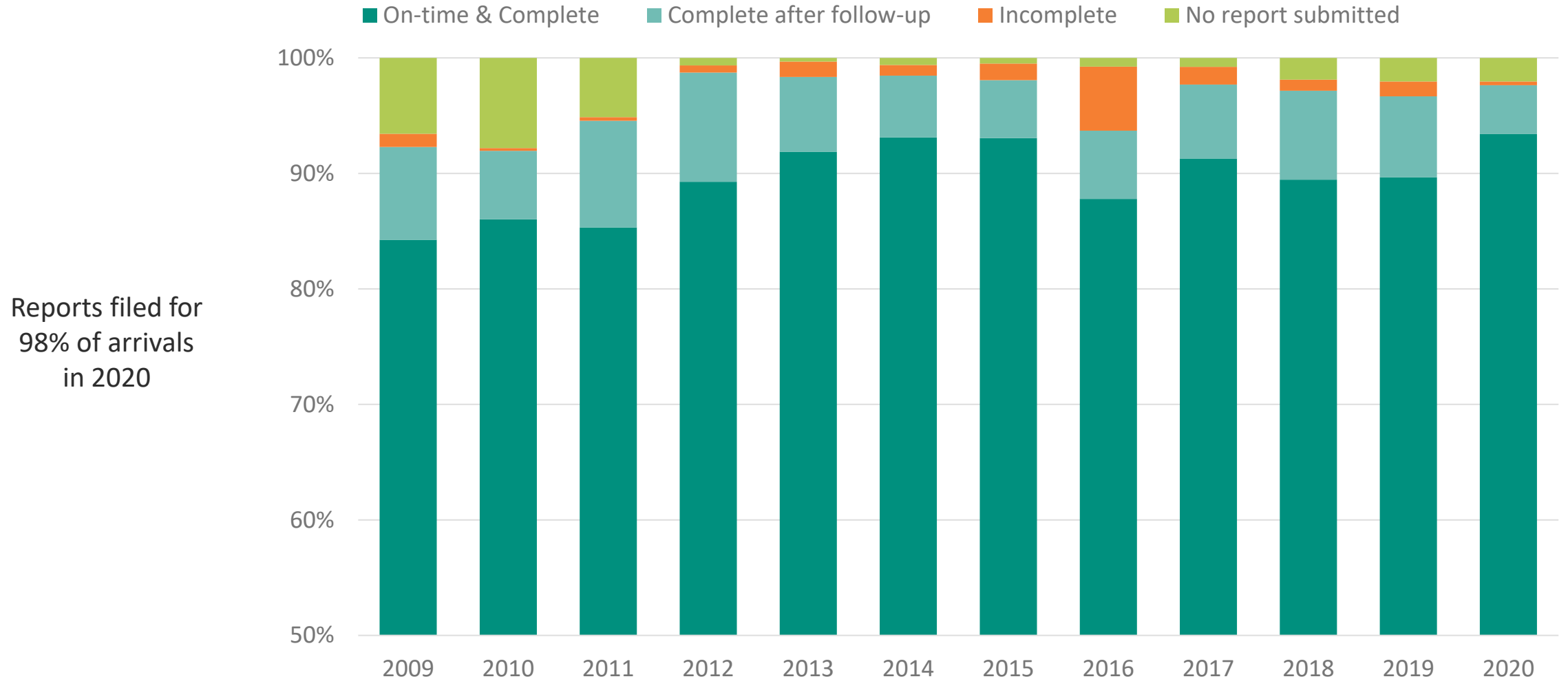
Oregon Ballast Water Program



Statutory Requirements (ORS 783.620 -640; 783.990-992)

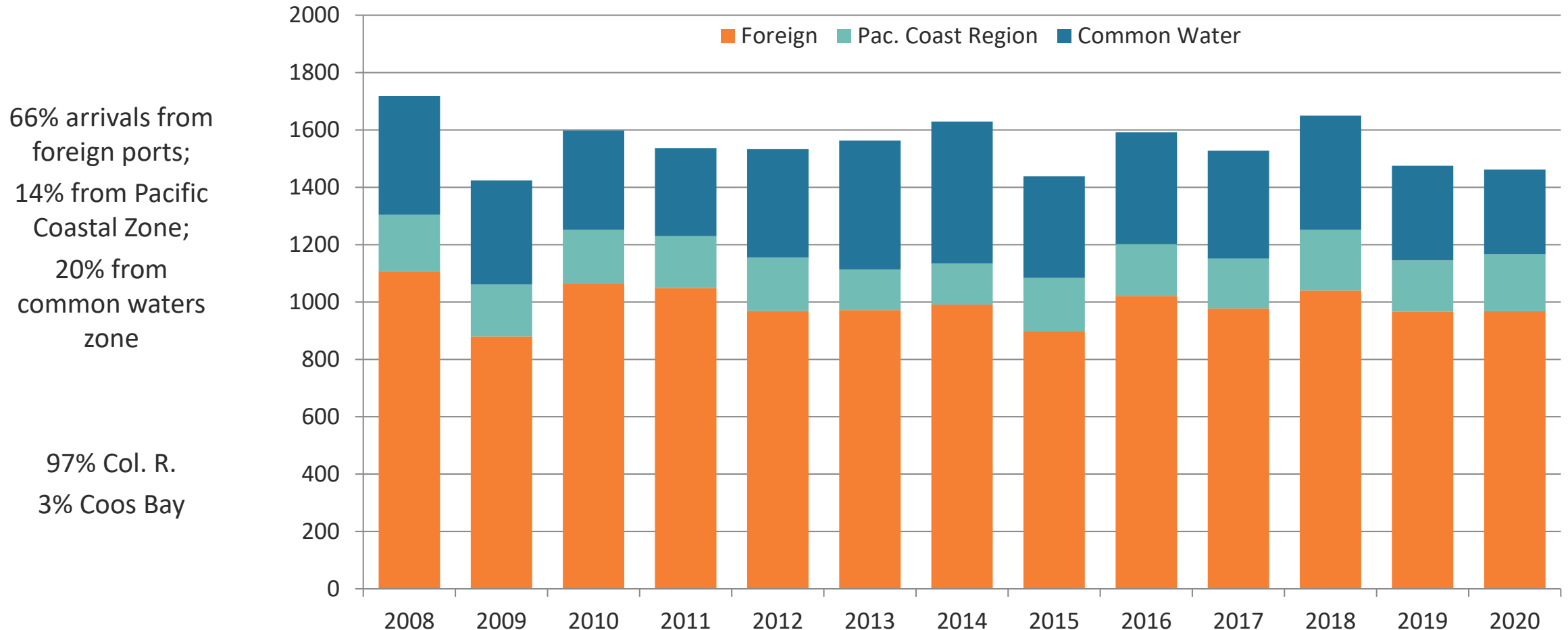
- Regulated Vessels:
 - > 300 gross tons and equipped with ballast tanks
- Reporting of Ballast Management:
 - at least 24 hours prior to entering waters of the state
- Management requirements for discharged ballast:
 - Mid-Ocean Exchange
 - Coastal Ocean Exchange
 - USCG-approved treatment
- Exemptions
 - Common Waters, and Safety of Vessel/ Crew
- Penalty Issuance Authority
 - Civil and Criminal: up to \$25,000 penalty per violation

Reporting Compliance

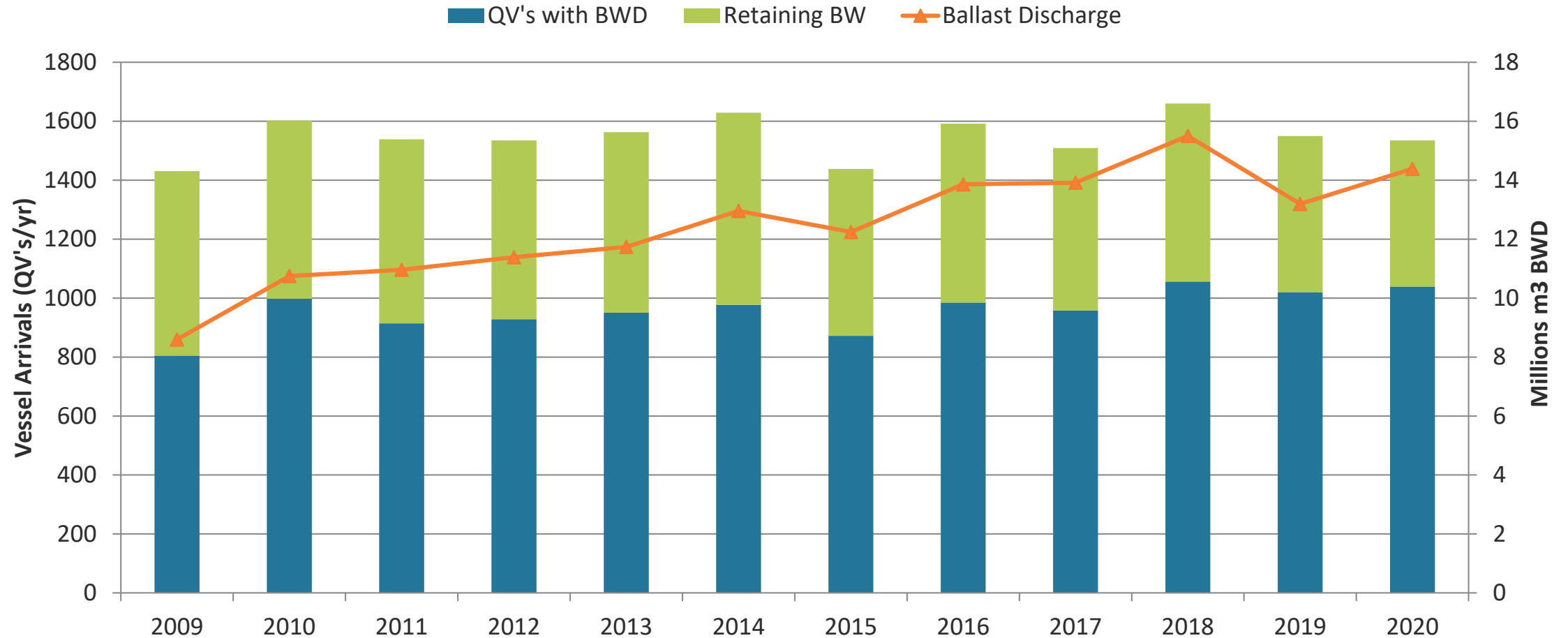


2020 Arrival Trends – Last Region

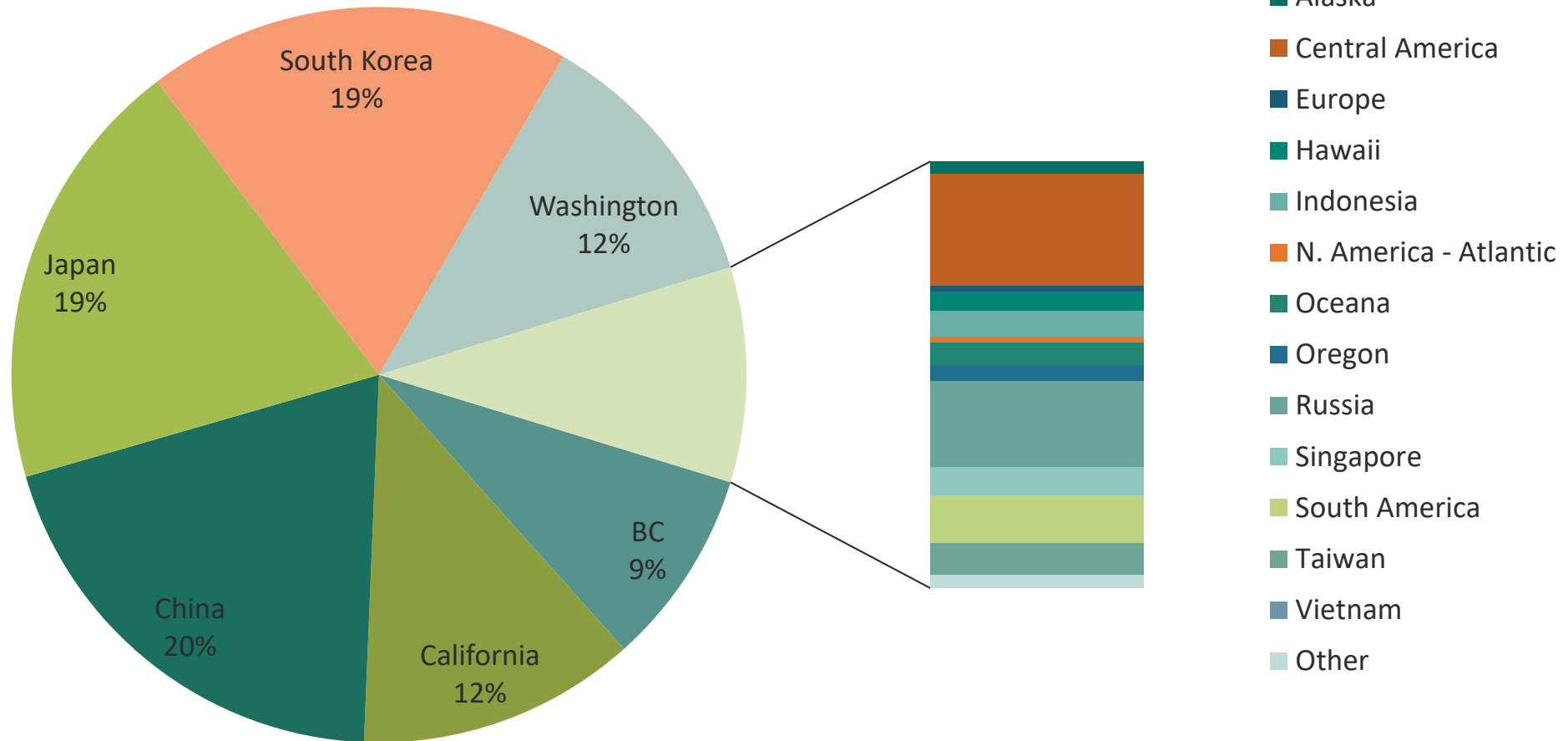
(Qualifying Voyages per year: 2008-2020)



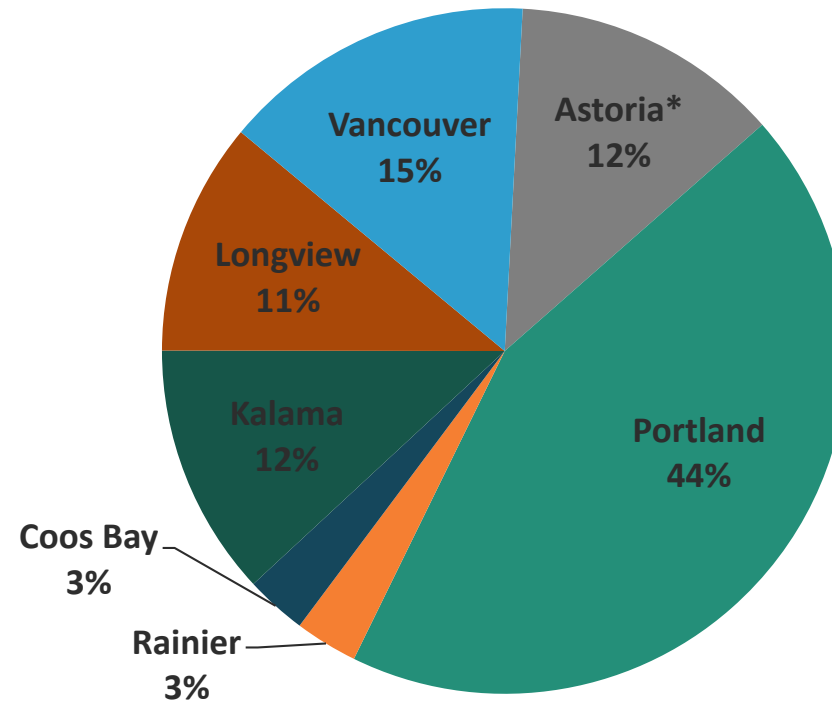
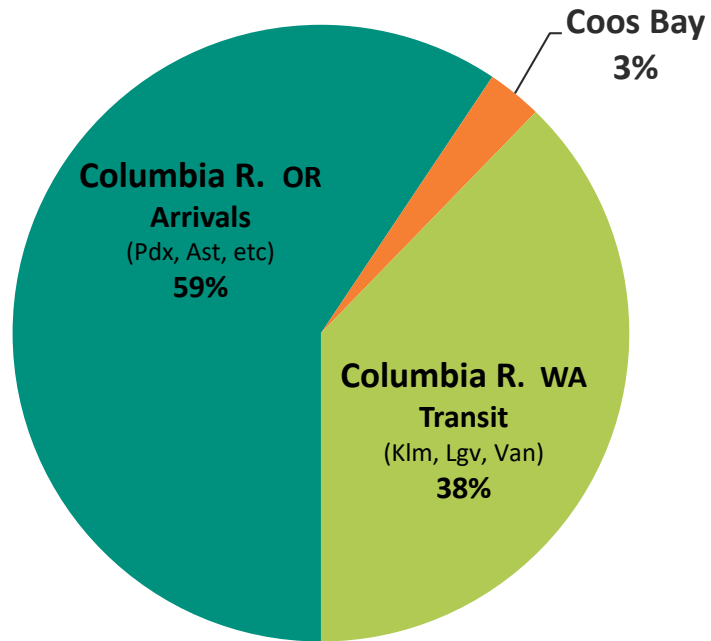
Discharge Trends



2020 Arrival Trends – Last Port

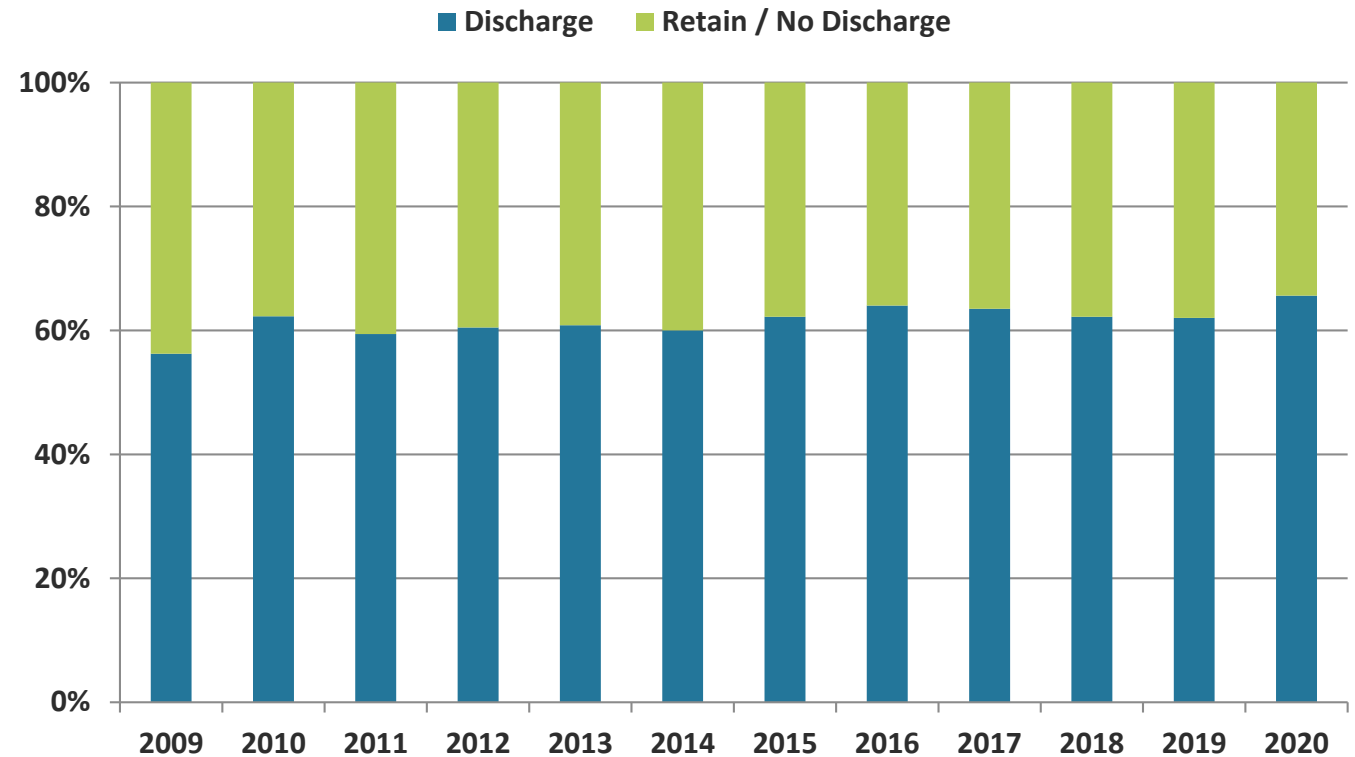
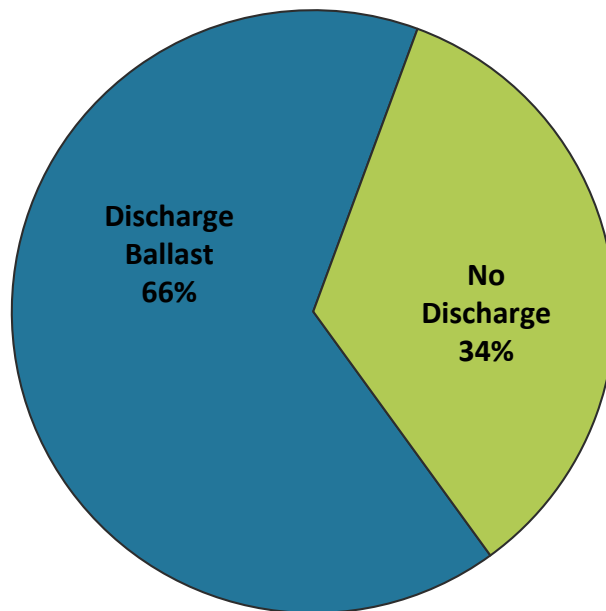


2020 Arrival Trends – Arrival Port

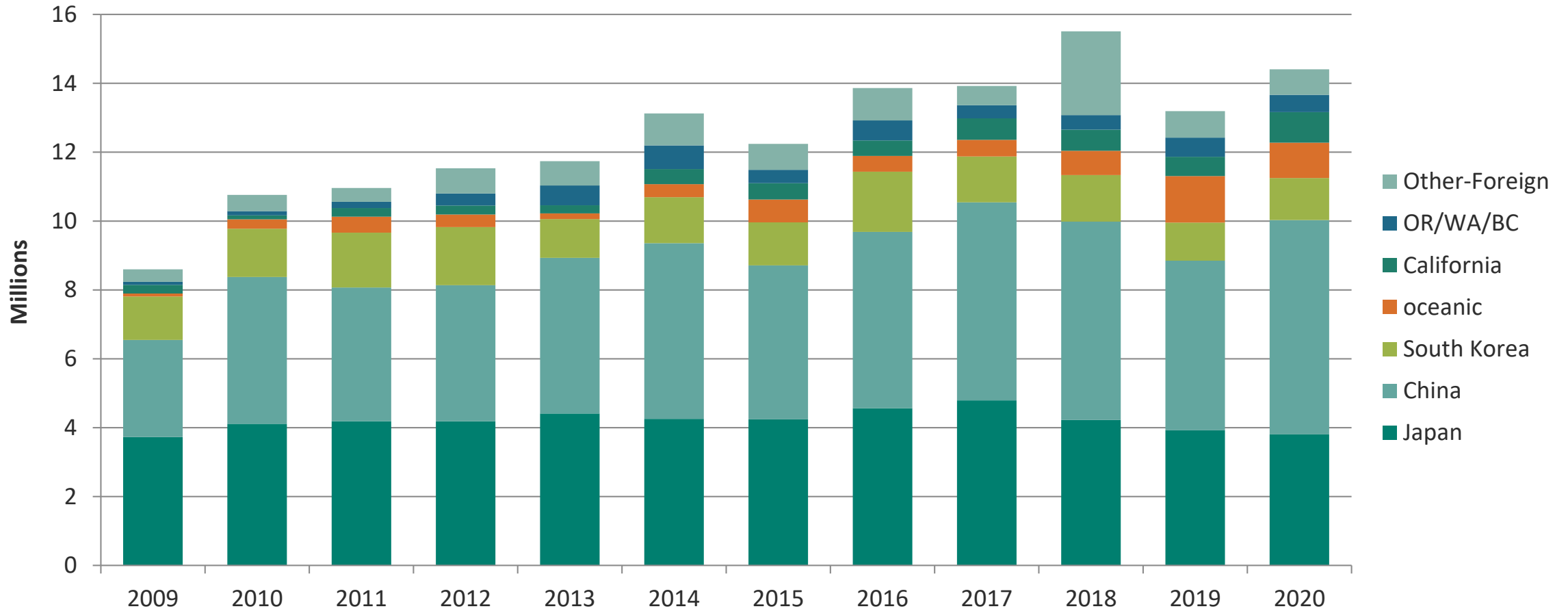


2020 Discharge Trends

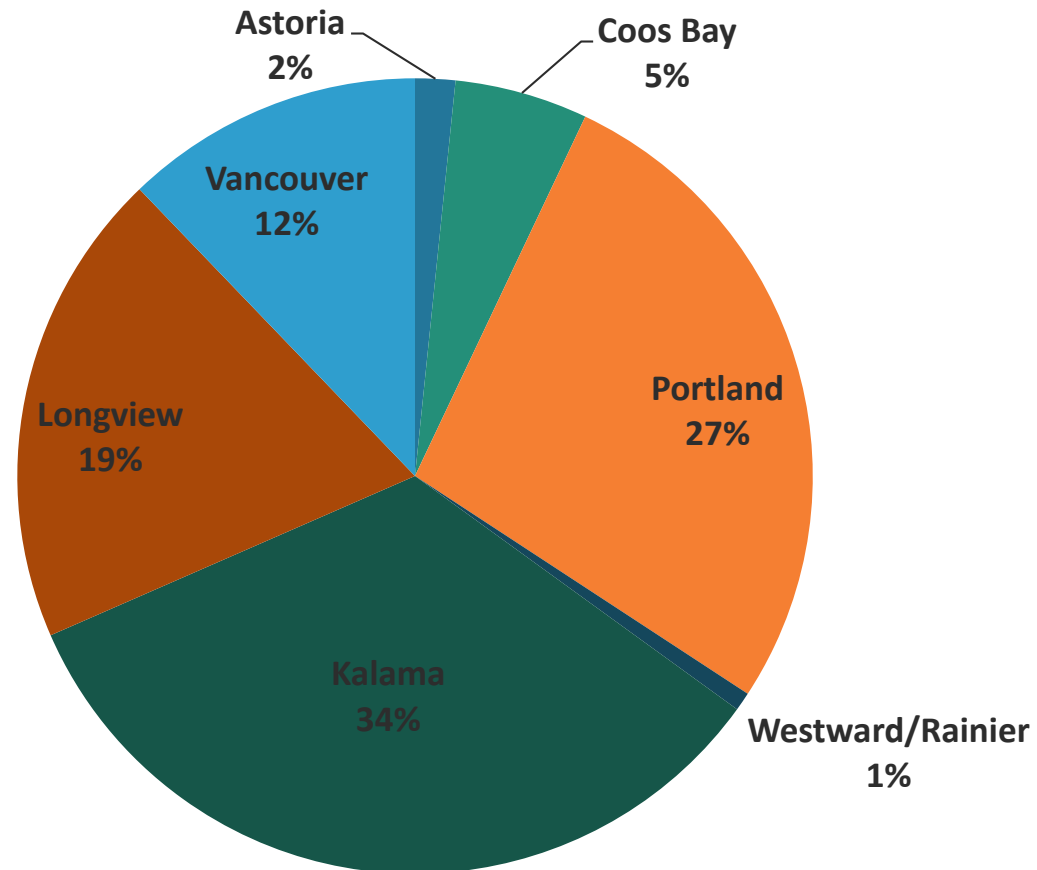
2020 arrivals



Discharge Trends - Source



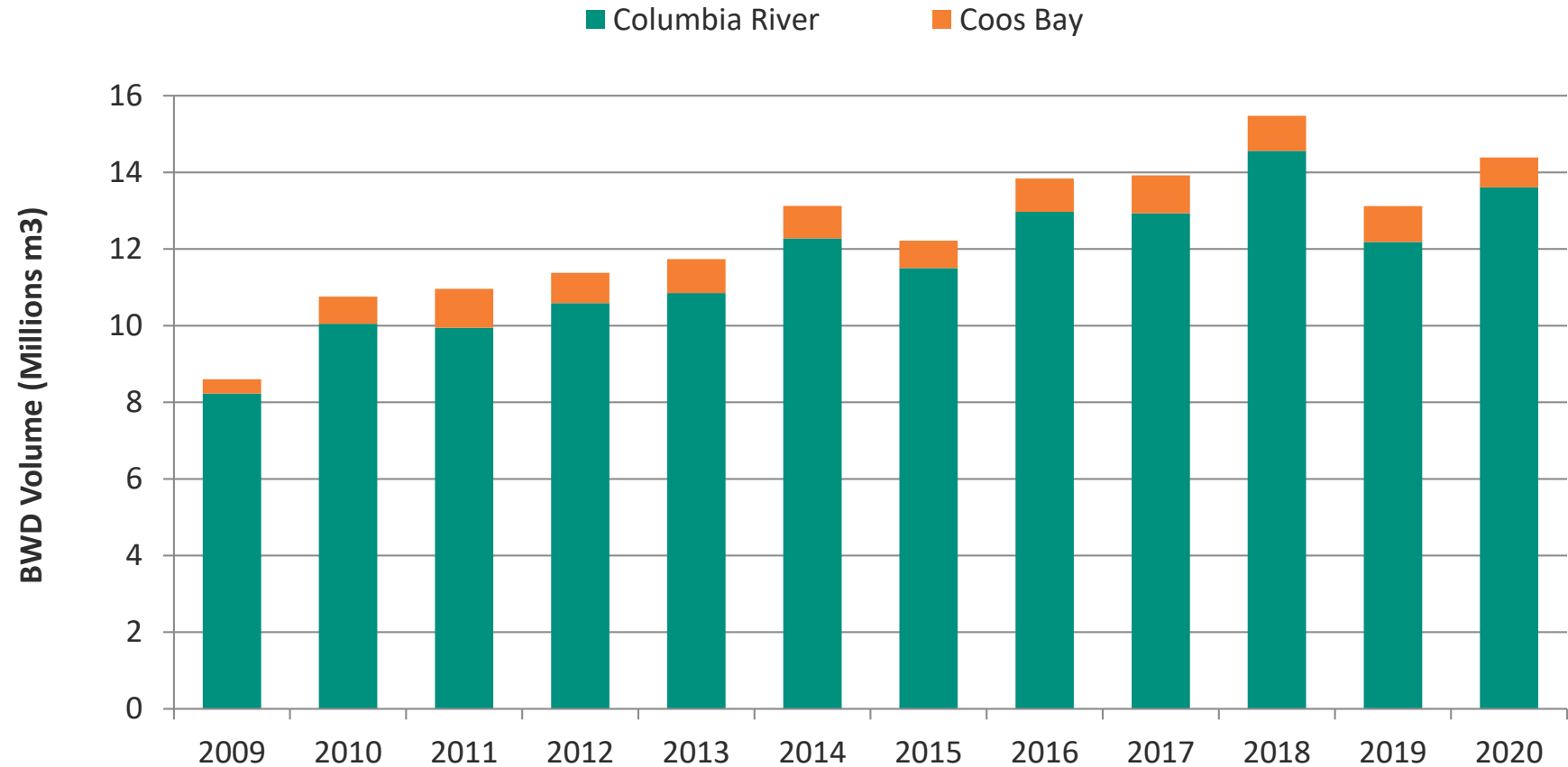
Discharge Trends - Location



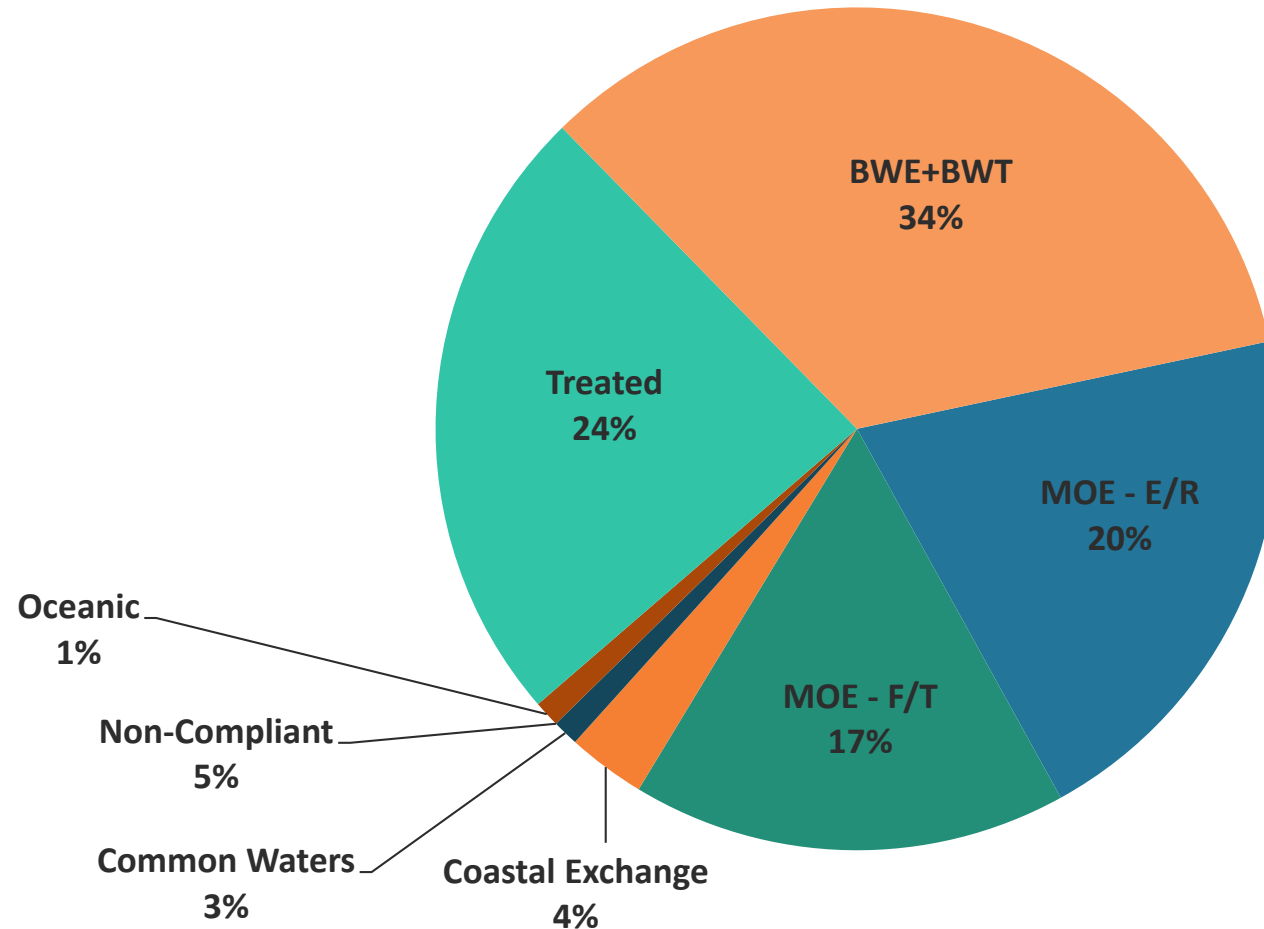
Discharge Trends - Oregon

14.4 Million m3
discharged to
Oregon waters in
2020

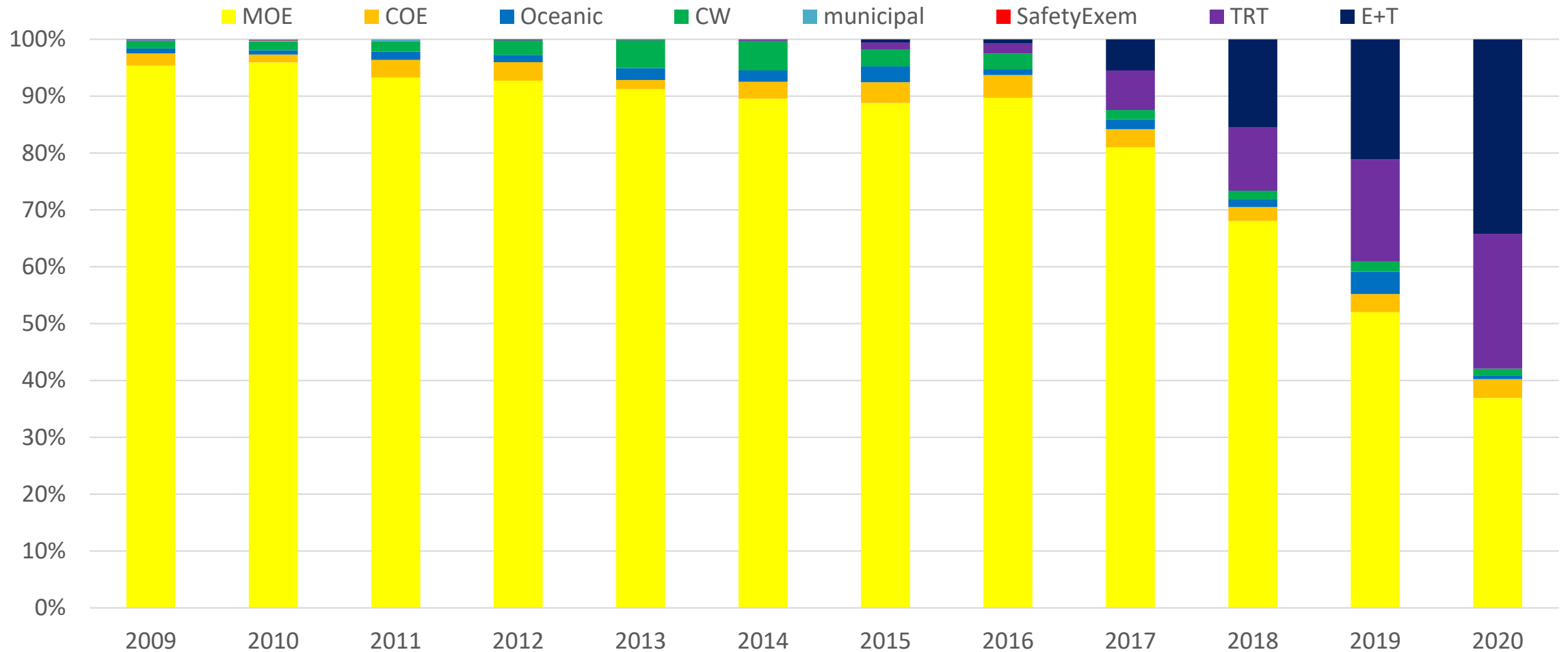
About 50% of CR
discharge occurs
at WA side
facilities



Management Trends - 2020



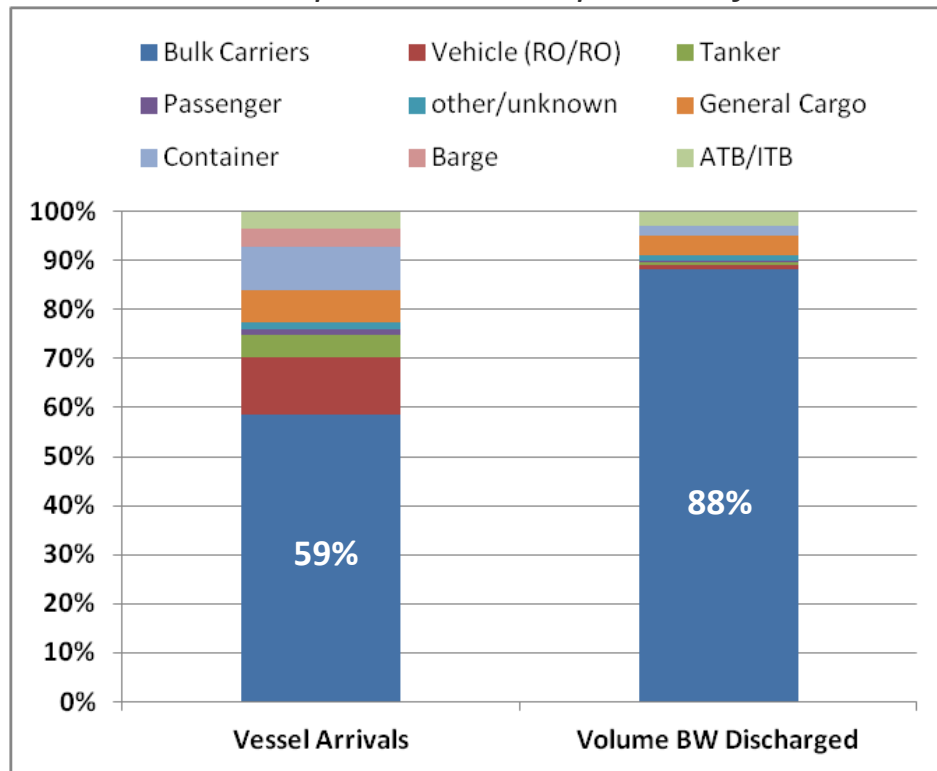
Management Trends



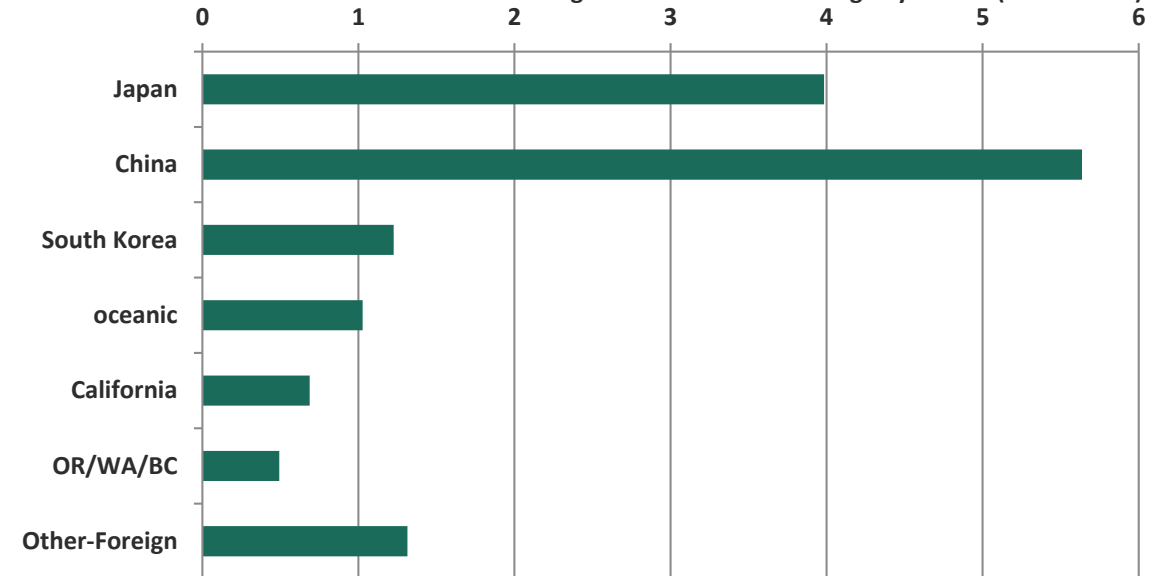
Vessel Trends

Vessel Type:

Arrival Composition vs. Proportion of BWD



Average Annual Ballast Discharge by Source (Millions m3)



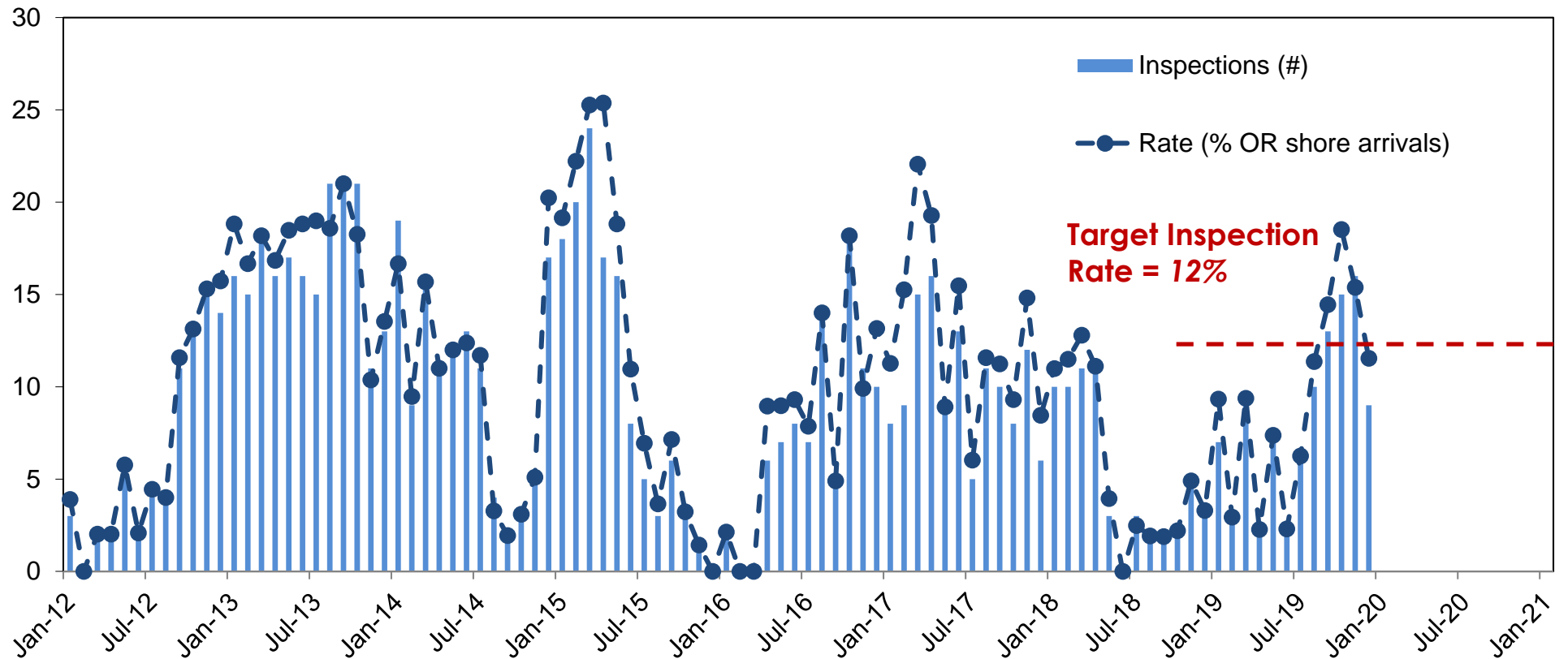
Original Source Location:

86% of discharge was originally sourced from East Asian waters

Inspection Activities: 2012-2020

Average Monthly Boarding Rate:

2013: 18%
2014: 10%
2015: 12%
2016: 8%
2017: 13%
2018: 4%
2019: 6%



Vessel Inspections & Compliance Verification

1. *Outreach &
Technical
Service*

2. *Audit of
Shipboard
Records*

3. *Compliance
Verification via
Sampling of
Ballast water
salinity*

4. *Assist with
Corrective
Action*

2019:

99 Inspections (72 in 2018)

Fully Compliant - 71%

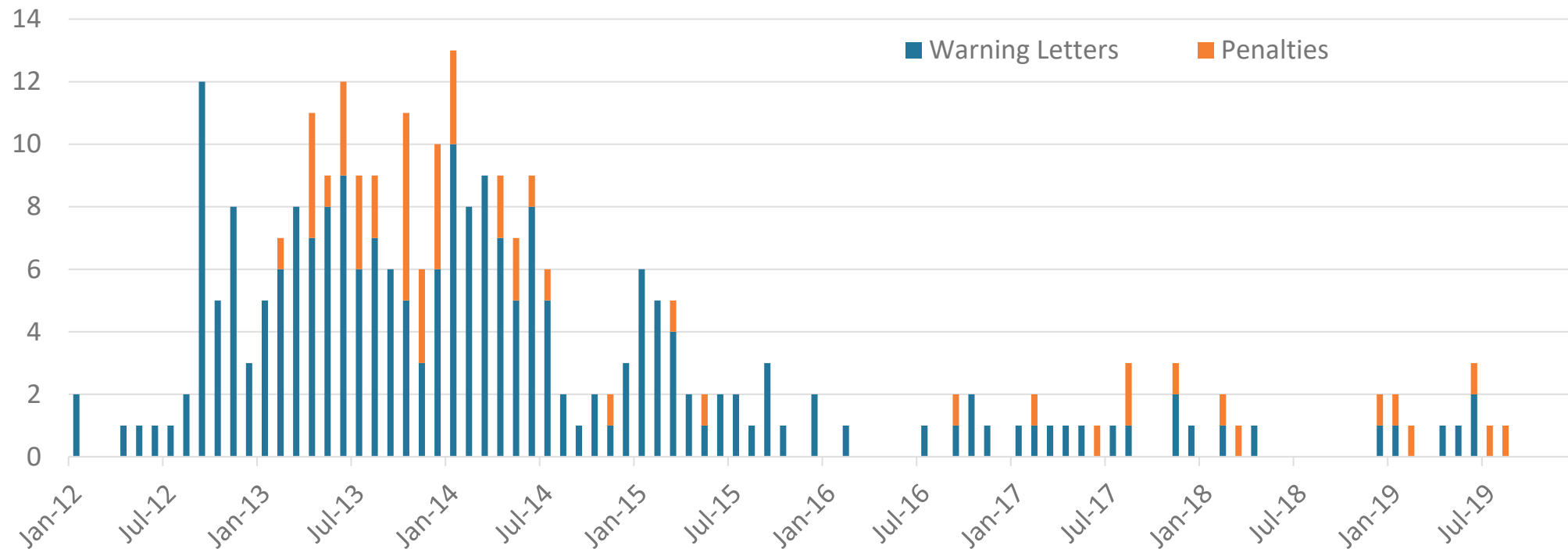
Reporting Problems - 22%

Recordkeeping Problems - 9%

1 inspection revealed noncompliant BW discharge



Enforcement Actions



Enforcement Guidance Policies initiated beginning January 2013

On the Horizon...

- I. VIDA
- II. Outreach RE: BWE+BWT in EEZ
- III. Enforcement Guidance Policy
- IV. Database Re-configuration
- V. Modernize reporting abilities
- VI. Inspection Technology Upgrade
- VII. Update screening tools

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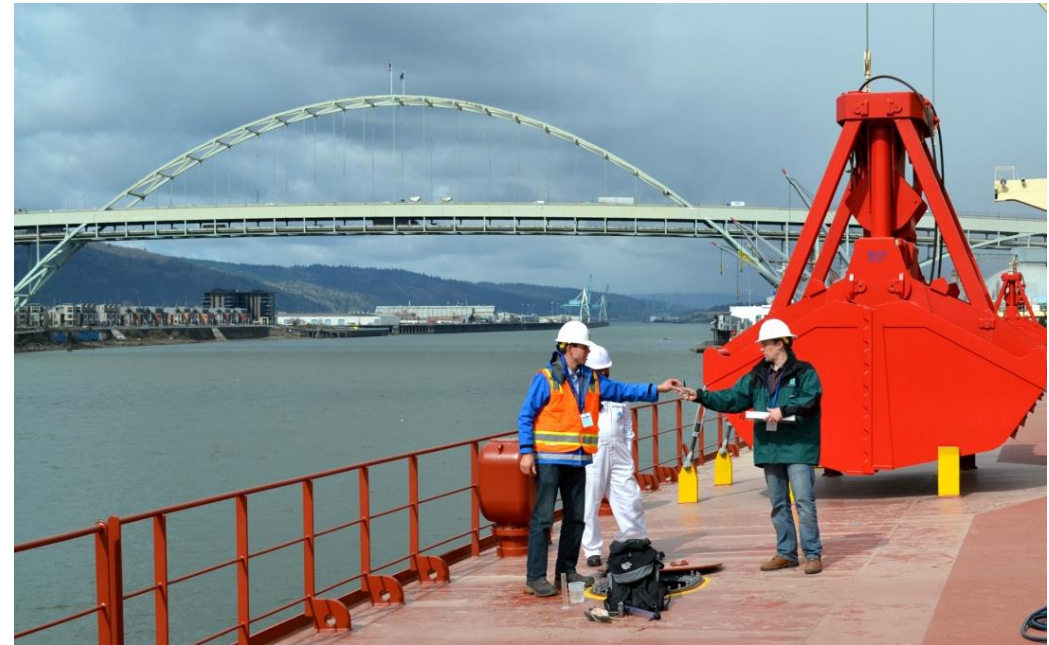


Photo credit: B. Bjorndal