

Oregon Ballast Water Program

*PACIFIC BALLAST WATER GROUP MEETING
JANUARY 2009
SEATTLE, WA*

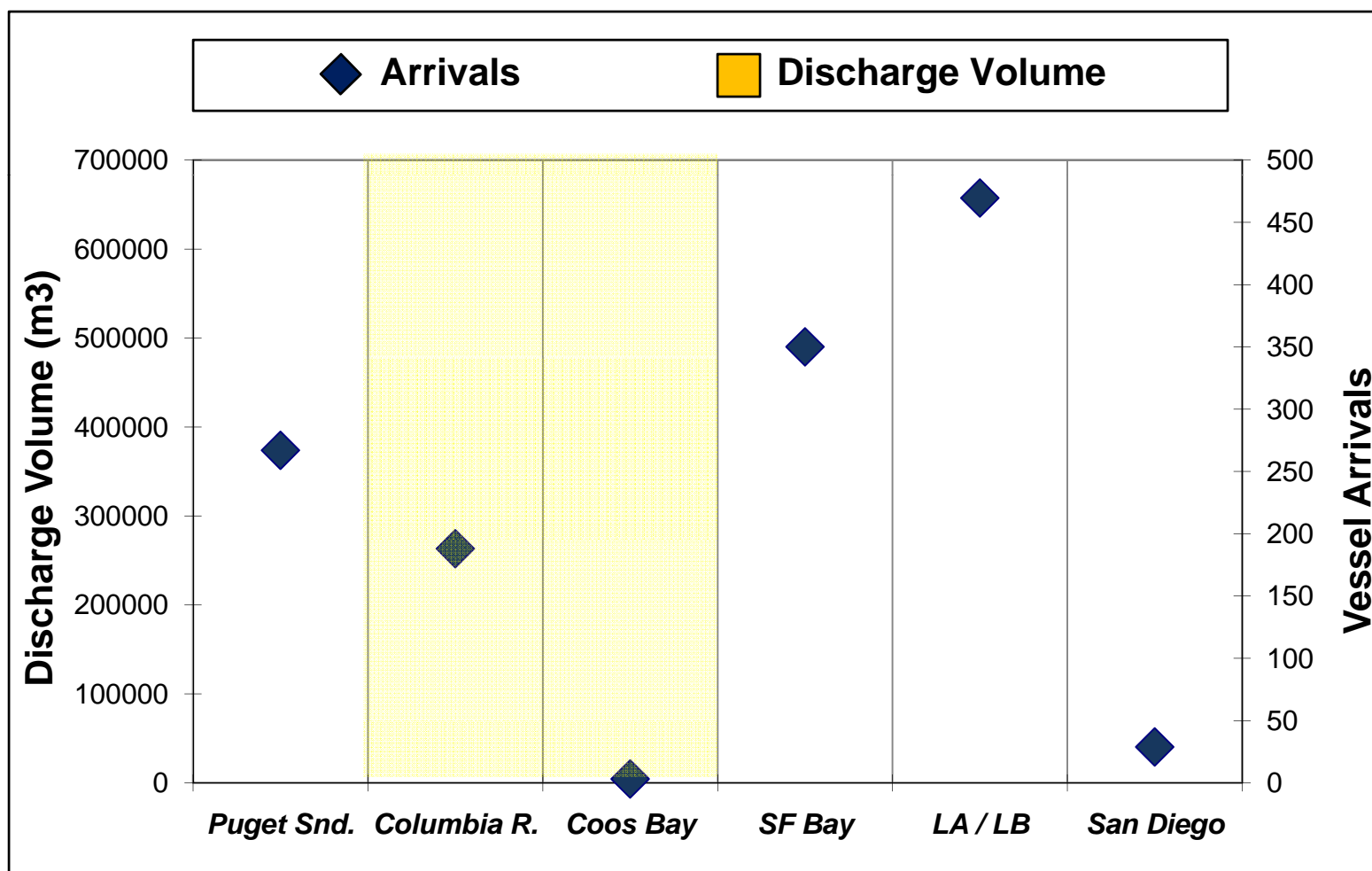


Rian v. Hooff
Department of Environmental Quality
Portland, Oregon



Oregon Ballast Water Program

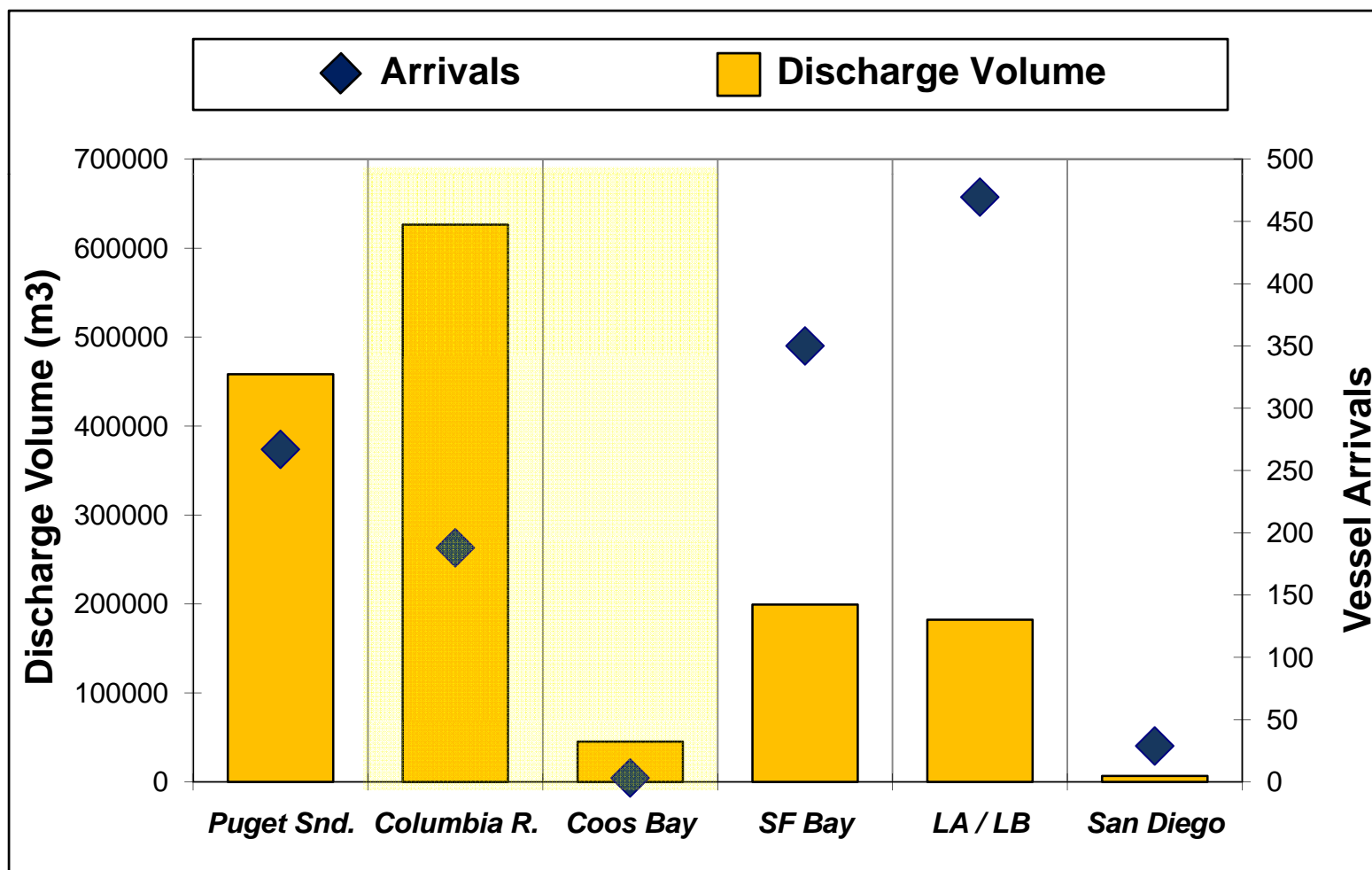
Regional Comparison (2006 monthly averages)





Oregon Ballast Water Program

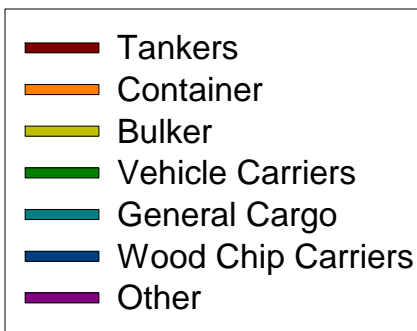
Regional Comparison (2006 monthly averages)



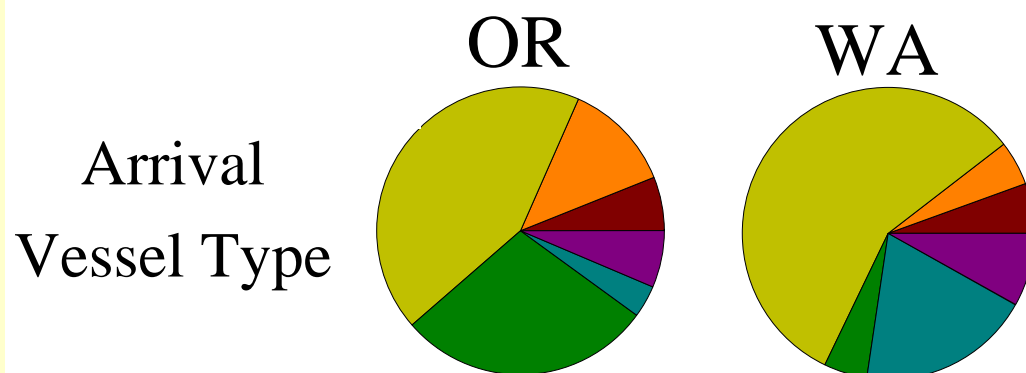


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Voyage characteristics



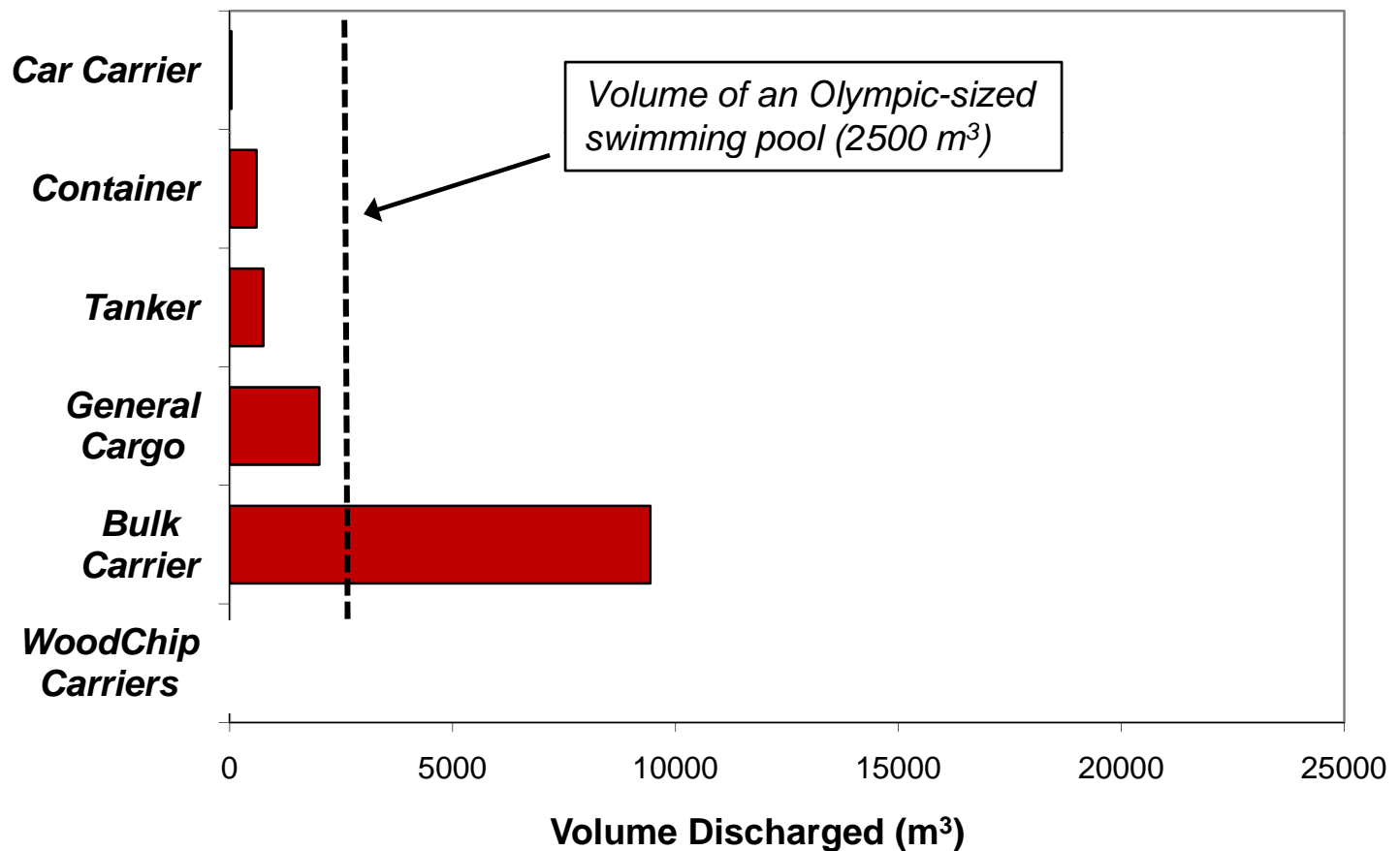
Columbia River





Oregon Ballast Water Program

Average Discharge (per vessel type per arrival)



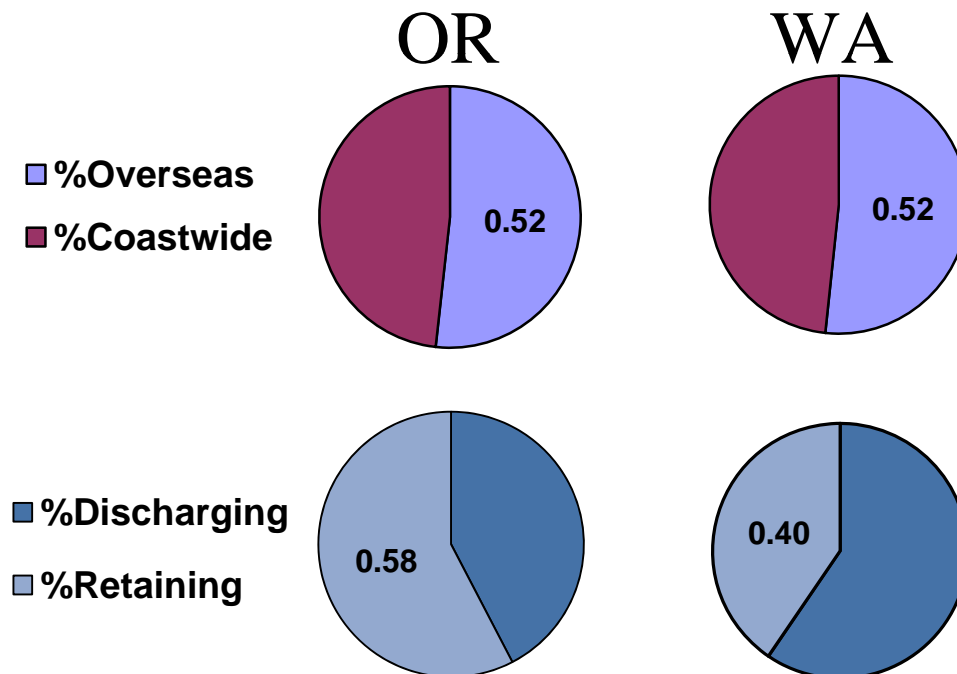
*Bulkers
represent ~45%
of CR arrivals
and >80% of
CB arrivals*



Oregon Ballast Water Program

Voyage and discharge characteristics

Columbia River



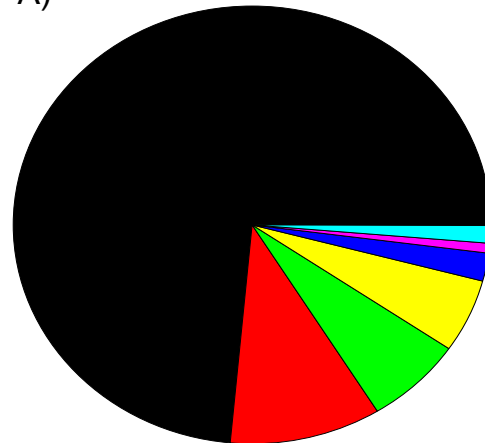


Oregon Ballast Water Program

BW discharge risk-reduction

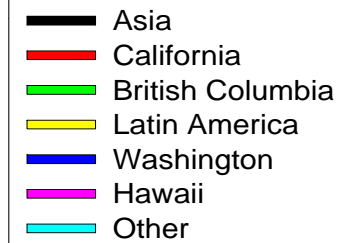
>8,000,000 m³
of ballast
discharged in
CR during 2008

A)



Discharge Source

if Unmanaged



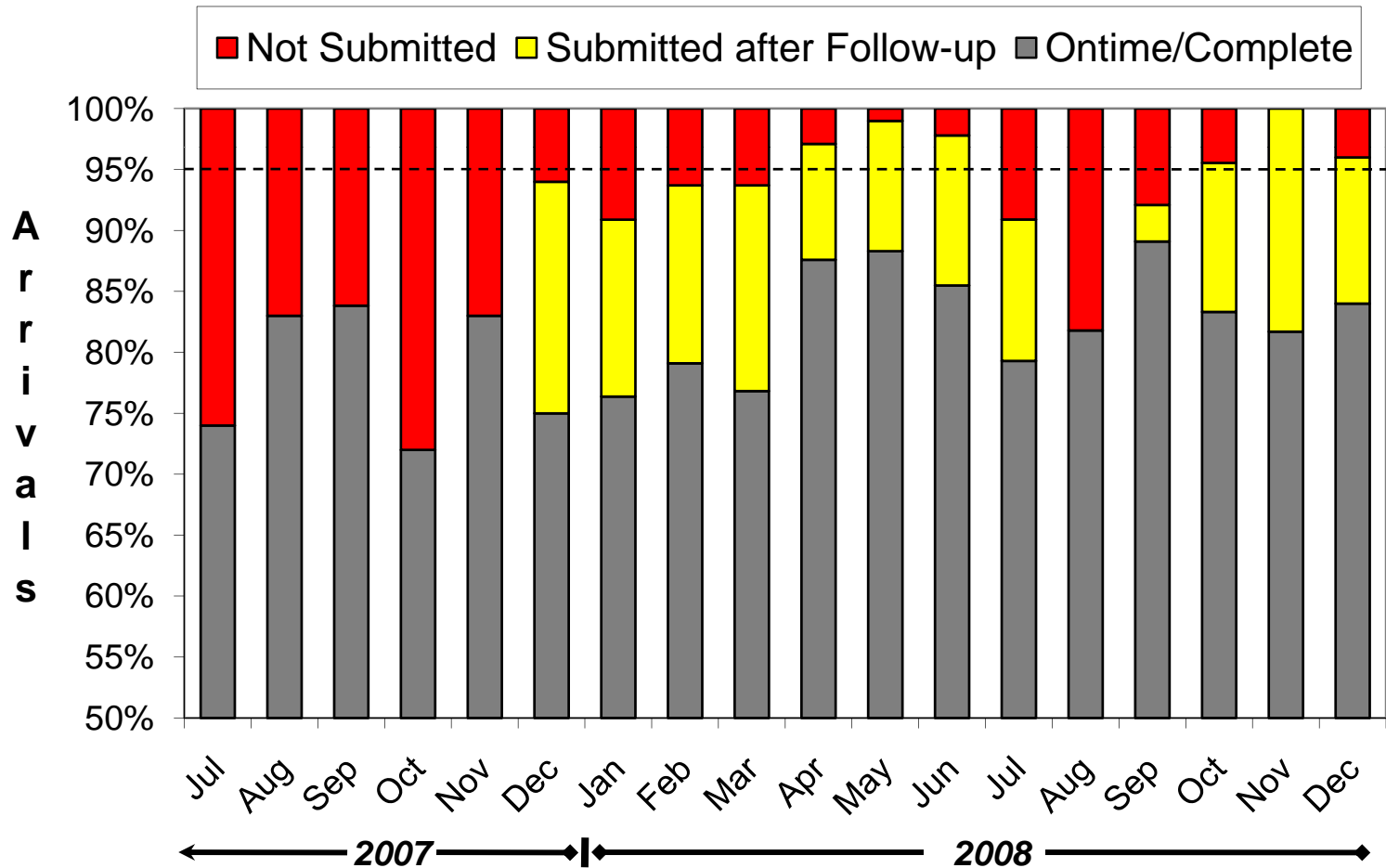


Oregon Ballast Water Program

Reporting Compliance for OR ports

15-20% of arrivals do not file BWRf with the state

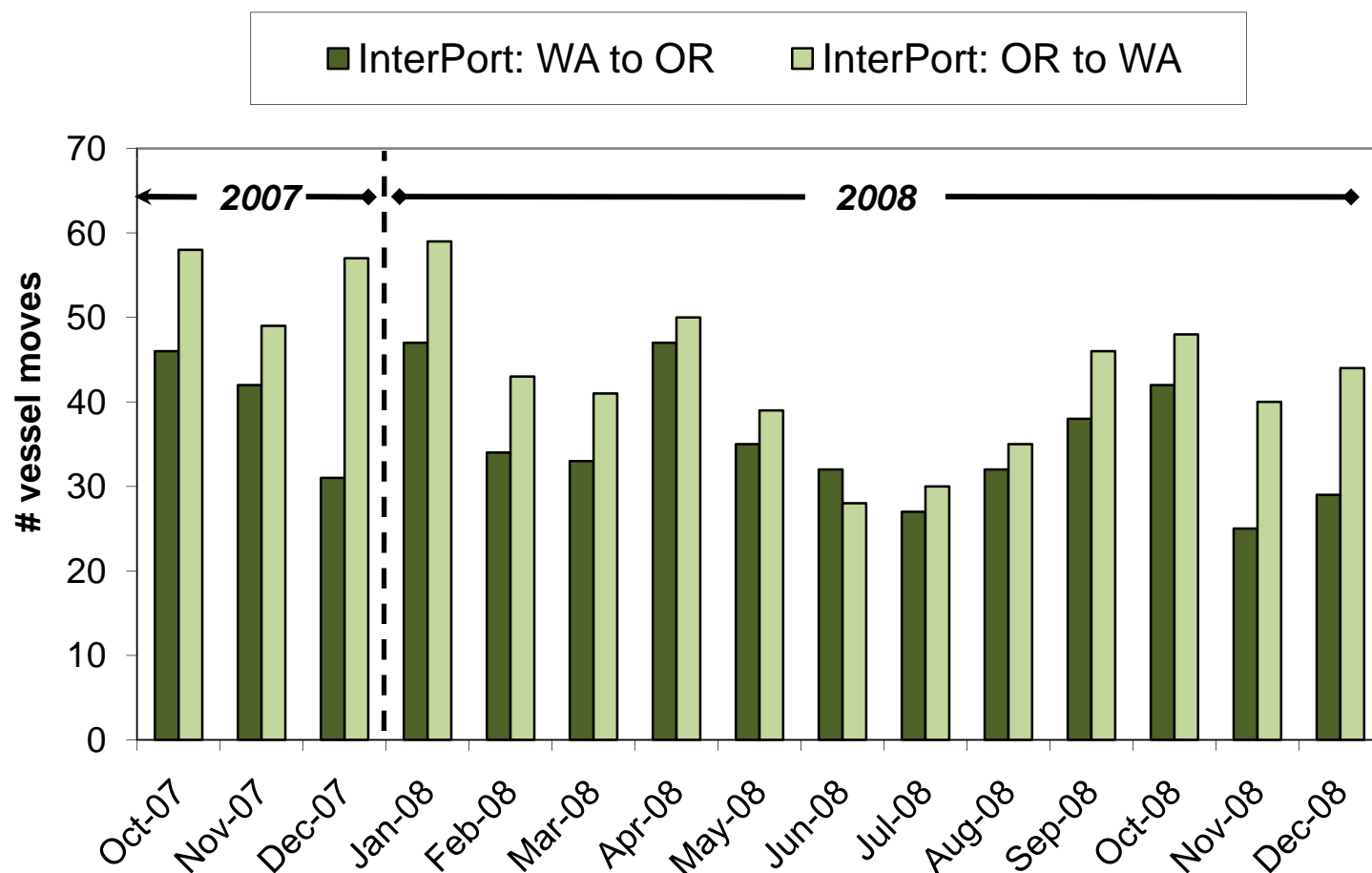
>95% compliance with local follow-up efforts





Oregon Ballast Water Program

Interstate vessel traffic on the Columbia R.





Oregon Task Force on the Shipping Transport of Aquatic Invasive Species

Objectives and Goals

- Explore potential changes to ballast water statute and administrative rules.
- Investigate other opportunities aimed at combating the introduction of AIS from shipping-related transport.
- Report to the 2009 Legislature with recommendations directed at program development and possible legislative action.



Oregon Task Force on the Shipping Transport of Aquatic Invasive Species

Contents of the Report

- I. Overview of pertinent regulations in other jurisdictions
- II. Shipping patterns in OR waters
- III. OR Ballast Water Program Activities
- IV. Biofouling pathways and management options
- V. Emerging Issues
- VI. Regional Collaborations
- VII. Conclusions & Recommendations



Oregon Task Force on the Shipping Transport of Aquatic Invasive Species

Program Development Recommendations

- Improve vessel inspection program by developing risk-based prioritization.
- Work with WDFW to develop more efficient and coordinated management in Columbia River.
- Work with OISC to clarify responsibilities and jurisdiction over biofouling pathways.
- Implement a hull-husbandry survey for commercial vessels operating in OR waters.
- Explore additional funding options to support program goals.



Oregon Task Force on the Shipping Transport of Aquatic Invasive Species

Recommendations to the 2009 Legislature

1. Provide DEQ with explicit legal authority to inspect vessels and collect BW samples.
2. Increase maximum non-compliance civil penalties to establish greater consistency with penalties in neighboring states.
3. Provide supplemental funding to support BW program activities (~\$20k/year).
4. Support NIS monitoring efforts in OR waters.



Oregon Task Force on the Shipping Transport of Aquatic Invasive Species

Recommendations to the 2009 Legislature

5. Authorize DEQ to develop and implement emergency ballast management measures for non-compliant high-risk discharge events.
6. Authorize DEQ to develop ballast discharge standards and implementation timelines (** if/when...*).
7. Amend Oregon Invasive Species Council statute to include DEQ as an ex-officio seat on council.
8. Provide for continuation of Task Force through 2011.



Oregon Task Force on the Shipping Transport of Aquatic Invasive Species

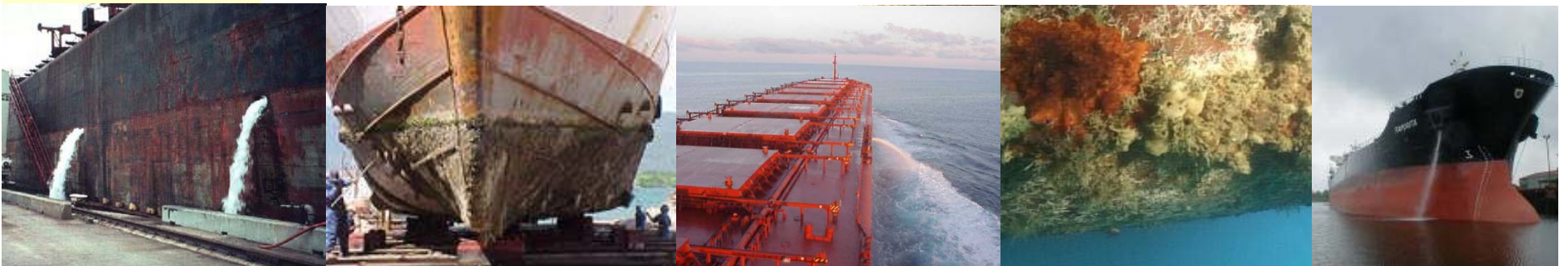
Questions or Comments?

Contact Info:

(503) 229-6865

hooff.rian@deq.state.or.us

webpage: <http://www.deq.state.or.us/lq/cu/emergency/ballast.htm>



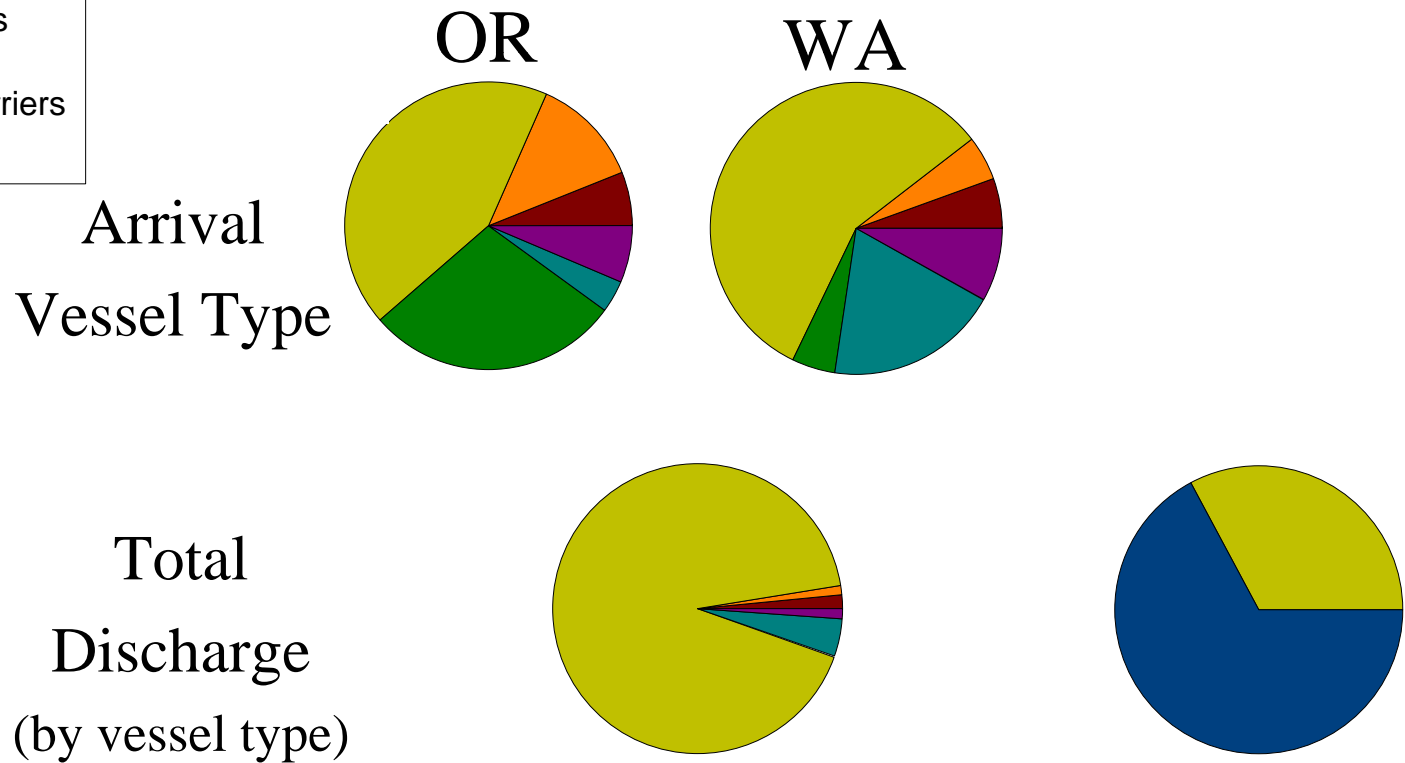


Oregon Ballast Water Program

Voyage and discharge characteristics

- Tankers
- Container
- Bulker
- Vehicle Carriers
- General Cargo
- Wood Chip Carriers
- Other

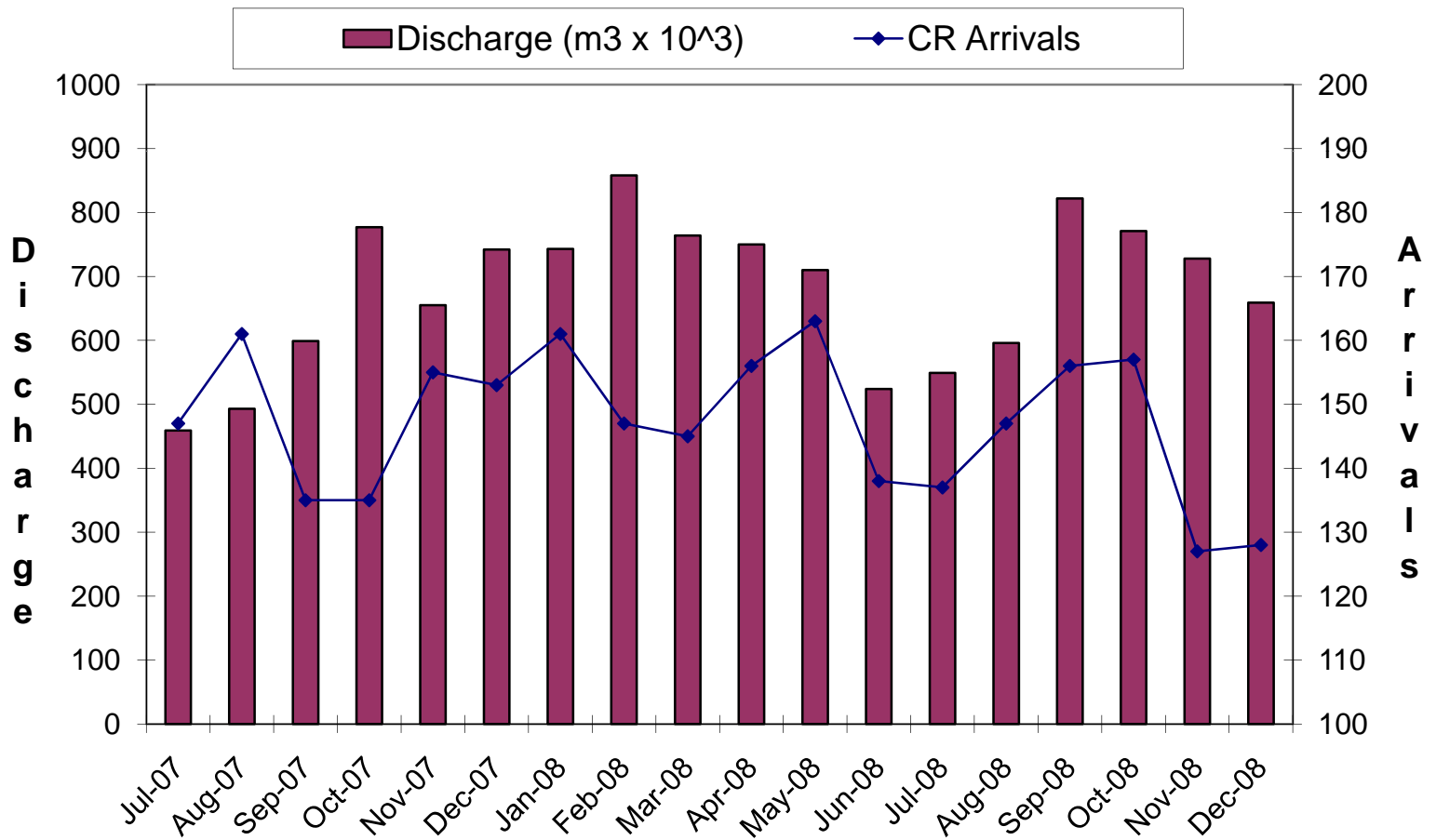
Columbia River





Oregon Ballast Water Program

Monthly Columbia River Arrival and Discharge Activity (OR & WA ports)



>8,000,000 m³
of ballast
discharged in
CR during 2008



Oregon Task Force on the Shipping Transport of Aquatic Invasive Species

Members

- State Senator Joanne Verger
- State Representative Brad Witt
- Jane Bacchieri * (Governors Office)
- Maurya Falkner (California State Lands Commission)
- Patrick Grill (K-Line Industries)
- Marla Harrison (Port of Portland)
- Krista Jones (Lower Columbia River Estuary Partnership)
- Martin Nugent (Oregon Department of Fish & Wildlife)
- Michael Pearson (U.S. Coast Guard)
- Allen Pleus (Washington Department of Fish & Wildlife)
- Mark Sytsma (Portland State University)
- Jim Townley (Columbia River Steamship Operators)
- Dick Vanderschaaf (The Nature Conservancy)

* - Task Force Chairperson



Oregon Task Force on the Shipping Transport of Aquatic Invasive Species

Recap of Activities

- | | |
|------------------------|--|
| <u><i>March</i></u> | Convened 1 st Task Force Meeting |
| <u><i>April</i></u> | Discussed biofouling information gaps and management options |
| <u><i>June</i></u> | Drafted recommendations |
| <u><i>Aug/Sept</i></u> | Refined recommendations and completed Final Report |

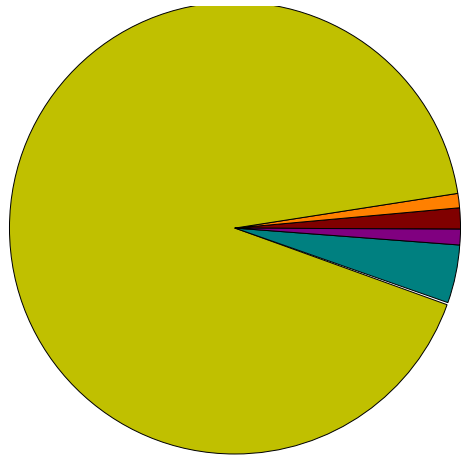


Oregon Task Force on the Shipping Transport of Aquatic Invasive Species

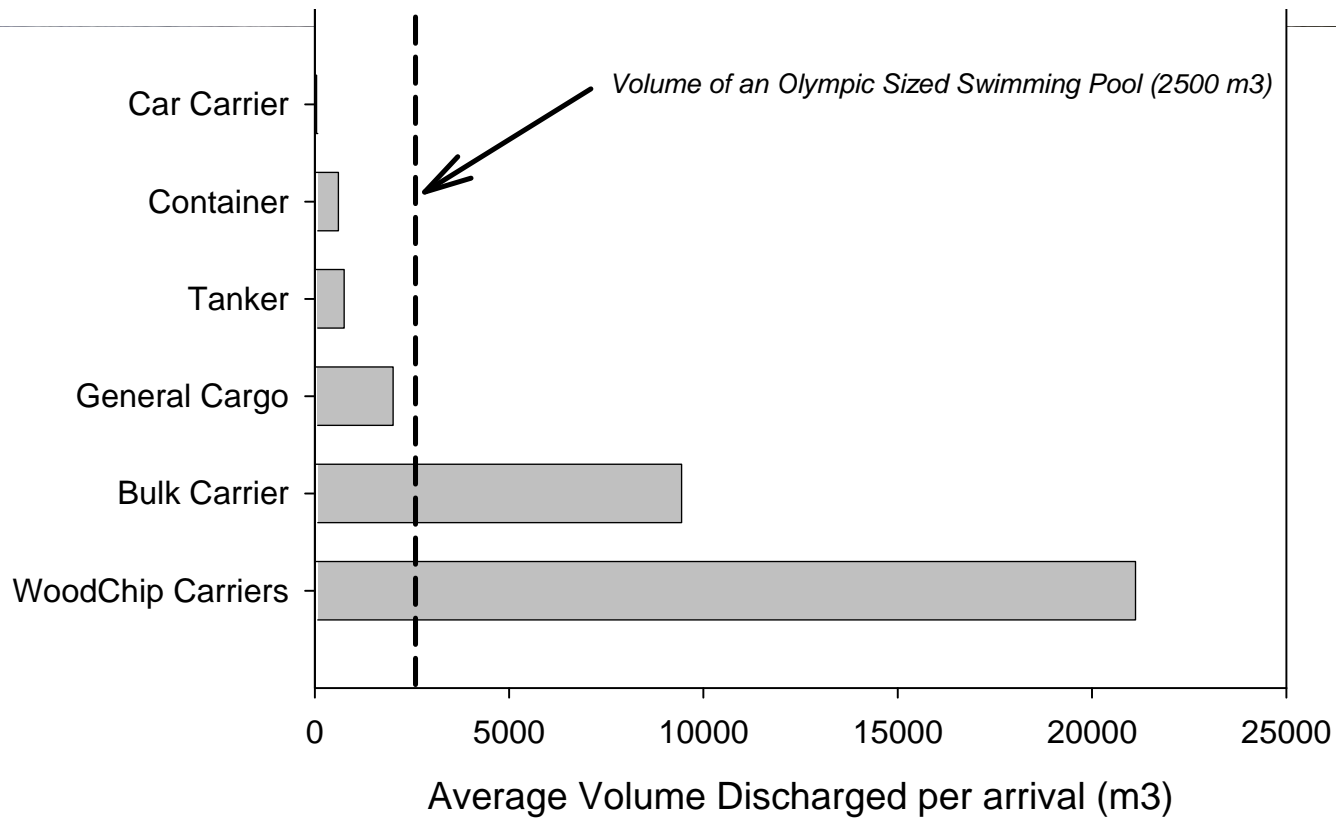
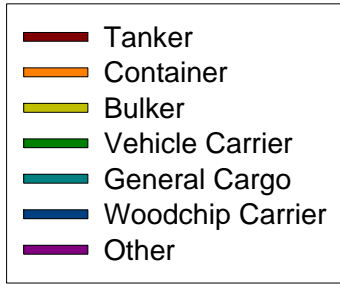
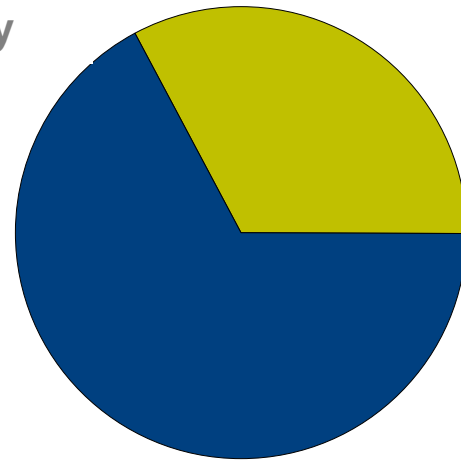
General Recommendations

1. Funding and Staff Resources
2. Ballast Water Treatment
3. Vessel Biofouling
4. Regional Coordination

Columbia River



Coos Bay



OR Exports
=
Ballast
Discharge





Oregon Task Force on the Shipping Transport of Aquatic Invasive Species

Recommendations to the 2009 Legislature

- Provide for continuation of STAIS Task Force through 2011. Focus on;
 - Potential revenue sources
 - Discharge standards
 - Emergency treatment options
 - Biofouling management options



Oregon Ballast Water Program: Goals & Objectives

Program Administration

- Develop Policy Recommendations
- Analyze shipping patterns and compliance
- Participate in regional workgroups & coordination
- Support Task Force activities

Outreach & Education

- Be a conduit of AIS information to shipping industry.
- Communicate BW Management requirements & BMP's to vessel operators

Data Management

- Track all Vessel Arrivals to Oregon
- QC & QA data entry of BW reports
- Notify vessel owners of incomplete reporting

Inspections/ Enforcement

- Board & inspect vessel ballast management records
- Collect samples for ballast exchange verification



Oregon Ballast Water Program

Enforcement & Follow-up Activities

