

Washington State Ballast Water Program

Presentation to the

Cherry Point Implementation Committee

June 21, 2017

Allen Pleus

Washington Department of Fish & Wildlife



Washington State Mission

The Washington Department of Fish and Wildlife's Aquatic Invasive Species (AIS) Program **serves** **Washington's citizens** by protecting, restoring, and enhancing fish and wildlife and their habitats, while providing sustainable and wildlife-related recreational and commercial opportunities.

15.1 million cubic meters =

**104,547 Railroad Grain Cars
of Discharge**



FreeFoto.com

**Or a train stretching 1,188 miles
from Los Angeles, California to Seattle**

Based on average 60 ft length and
5100 cu ft/144 cu m per car capacity



Washington State Mission

What's at Risk?

- Commercial & recreational shellfish
- Salmon recovery
- Rockfish recovery
- Harmful algae blooms
- Human health

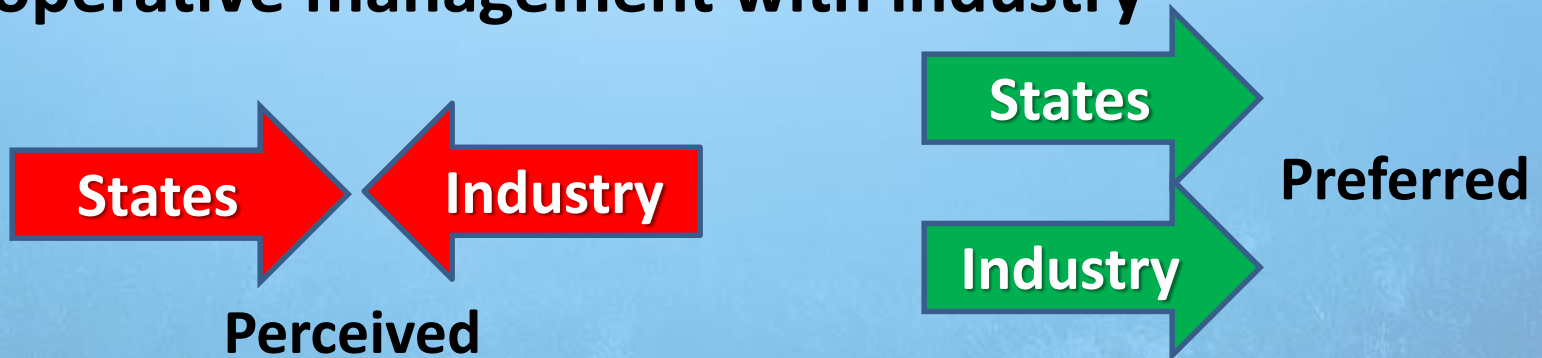


Healthy Ecosystems Viable Economies

46 endangered, threatened, and sensitive wildlife species + 87 Candidates

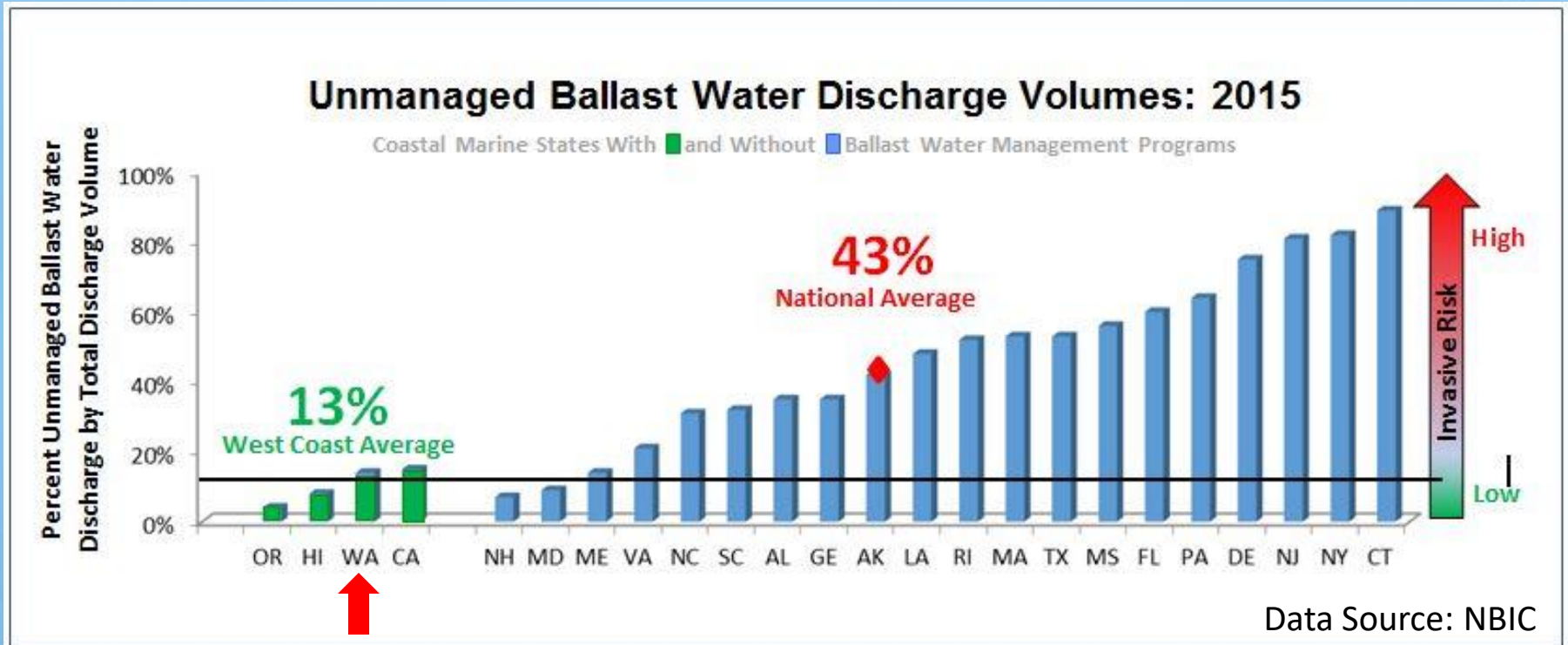
Federal BWM Gaps

- Proactive/Preventative Management
- 24 hour prior to arrival reporting
- Coastal ballast water exchange
- Scope of USCG BW inspections
- Level of USCG BW enforcement
- Cooperative management with industry



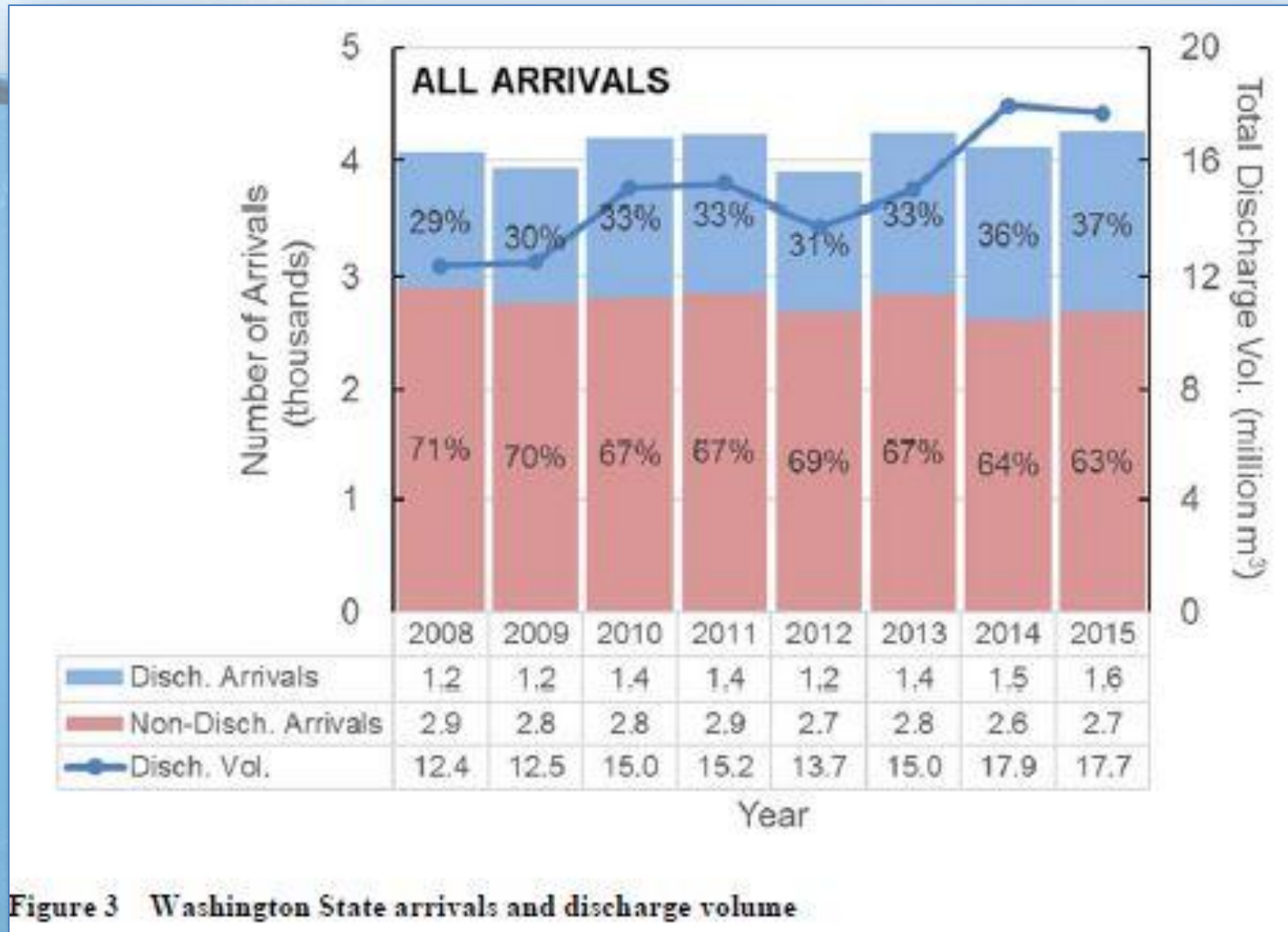
Unmanaged BW Discharge

2015: 121 out of 282M MT (43%)



Standardized measure of risk by effectiveness in reducing unmanaged BWD₆

State Data Analysis



State Data Analysis

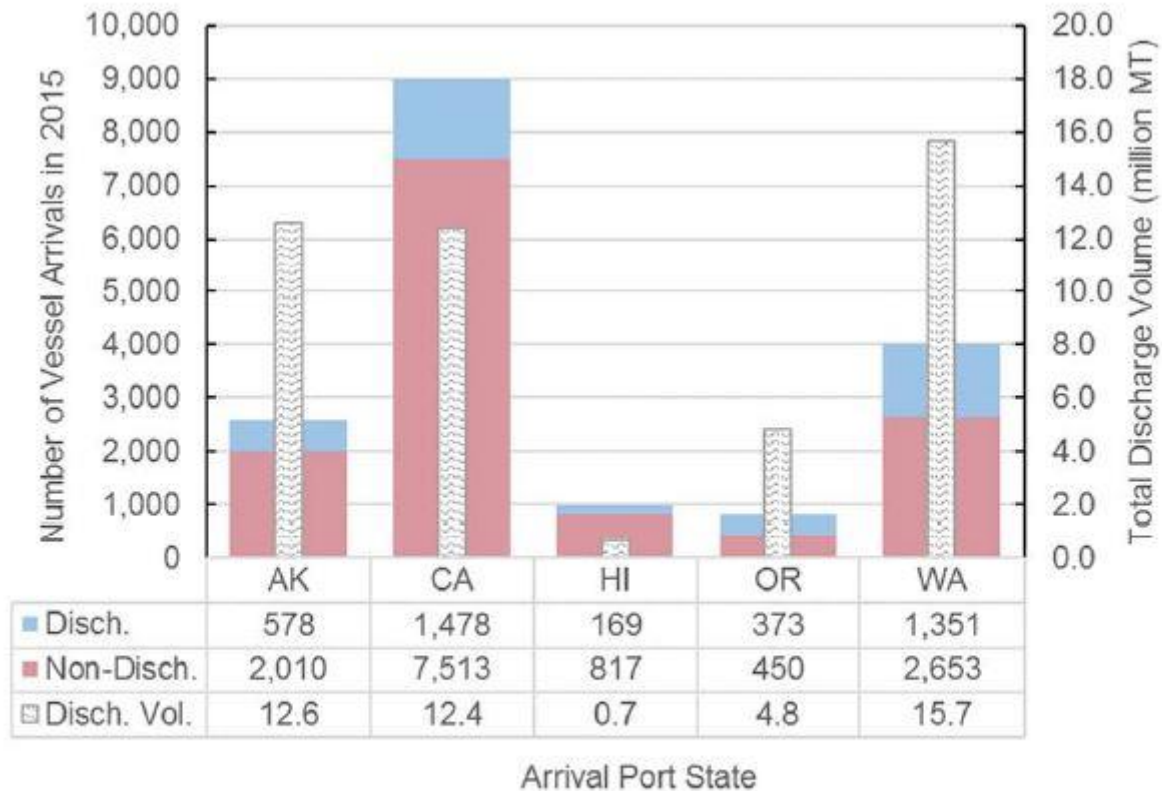


Figure 32 Number of non-discharging arrivals, discharging arrivals, and total discharge volume for Pacific states, 2015

State Data Analysis

Table 6 Discharge volume, non-discharging arrivals, and discharging arrivals at Washington ports, 2008-2015

Port	Discharge Volume (M m ³)		Non-Discharging Arrivals	Discharging Arrivals	
Kalama	24.5	[21%]	286	1,497	[14%]
Longview	18.8	[16%]	461	1,799	[17%]
Tacoma	16.1	[14%]	7,488	1,302	[12%]
Cherry Point	13.9	[12%]	1,017	1,126	[10%]
Seattle	12.4	[10%]	7,865	1,182	[11%]
Vancouver	11.3	[9%]	1,280	1,194	[11%]
Anacortes	7.2	[6%]	517	914	[8%]
Other WA Ports	15.2	[3%]	3,275	1,767	[16%]
All Ports	120	[100%]	22,190	10,782	[100%]

Table 5 Discharge volume, non-discharging arrivals, and discharging arrivals by vessel type, 2008 - 2015

Vessel Type	Discharge Volume (M m ³)		Non-Discharging Arrivals	Discharging Arrivals		Proportion of Arrivals that Discharge Ballast
Bulker	85.1	[71%]	1,285	6,080	[56%]	83%
Tanker	18.8	[16%]	3,034	1,466	[14%]	33%
ATB	9.7	[8%]	839	1,628	[15%]	66%
Containership	1.9	[2%]	8,984	654	[6%]	7%
Other	3.8	[3%]	8,066	954	[9%]	16%
All Types	120	[100%]	22,190	10,782	[100%]	33%

State Data Analysis

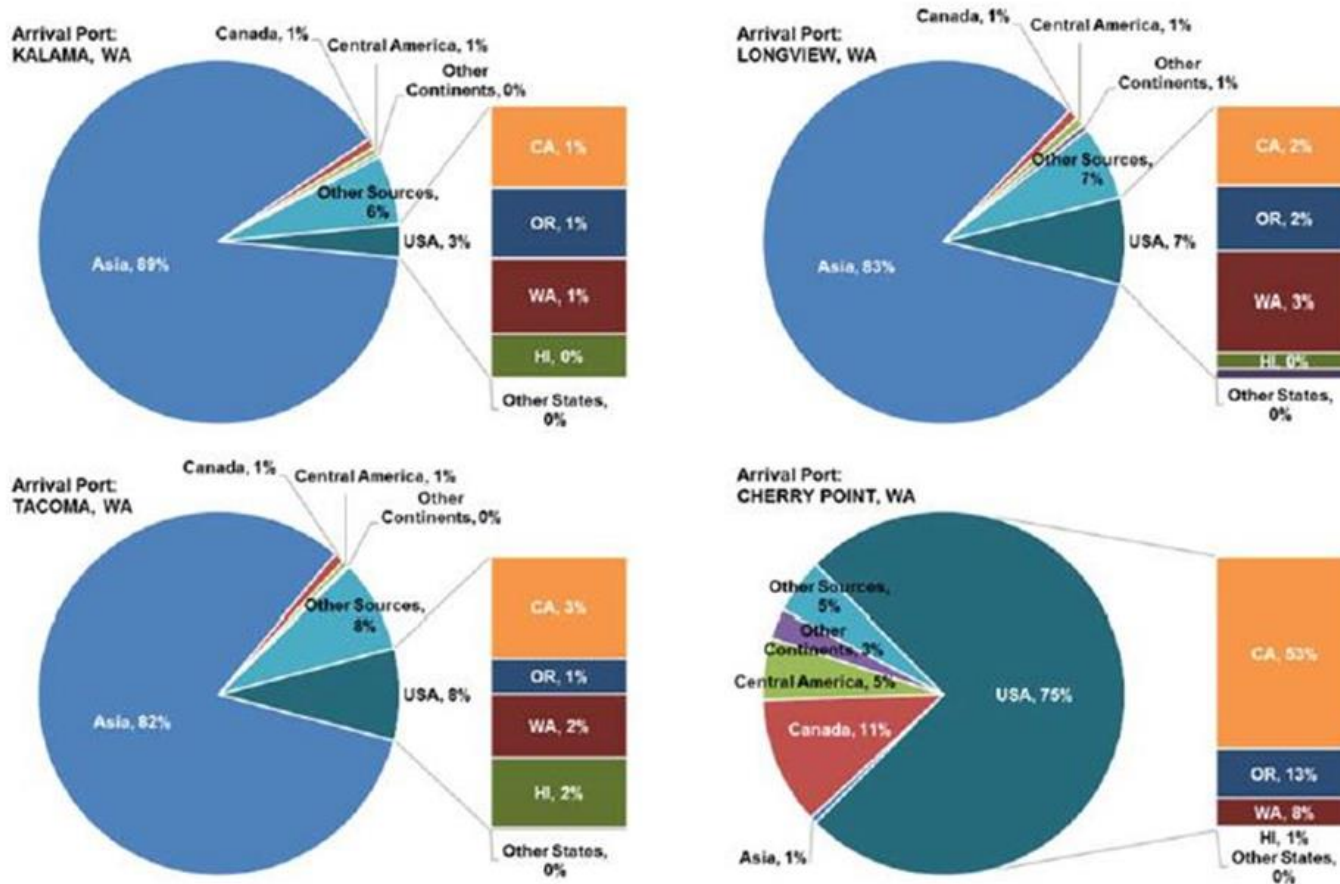


Figure 12 Percentage of total discharge volume into top four ports by volume by ballast water source, 2008-2015

State Data Analysis

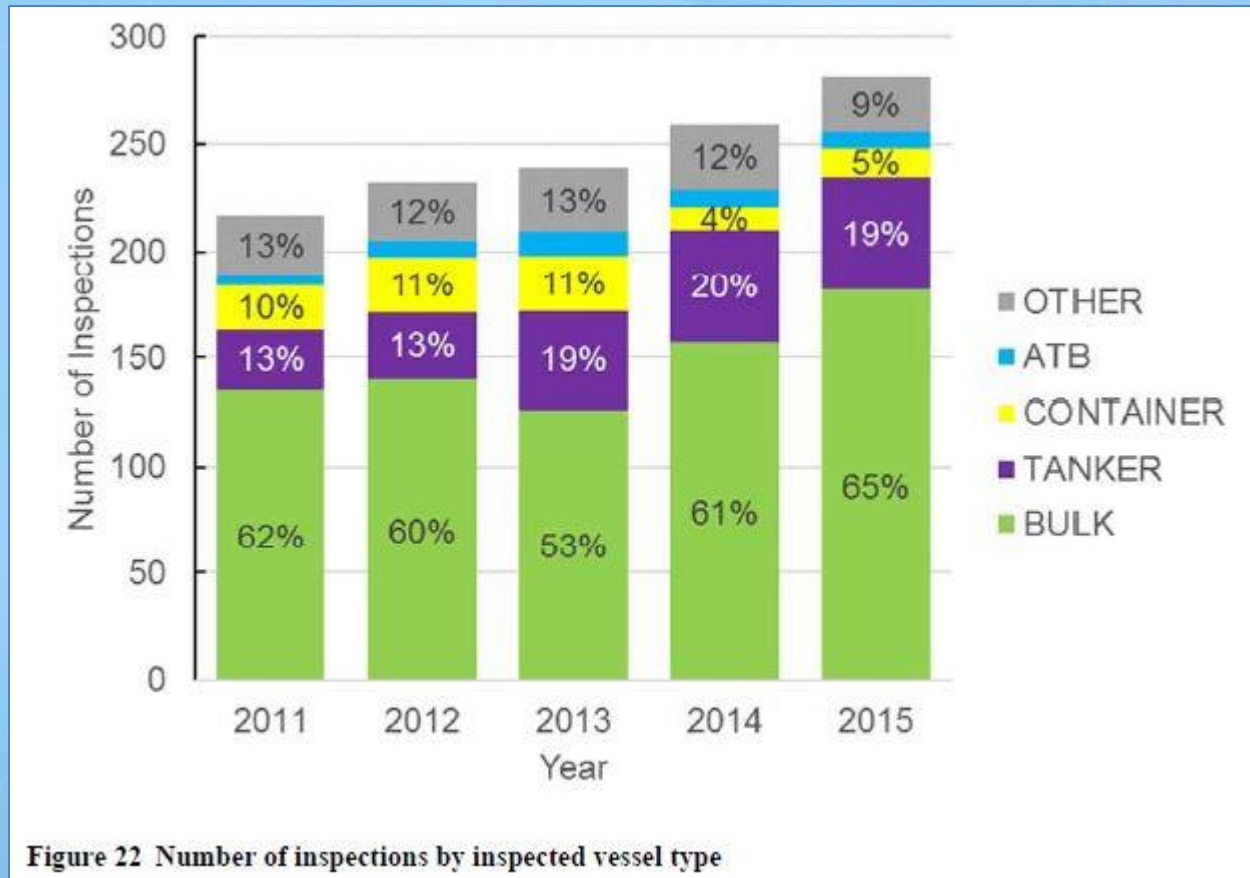
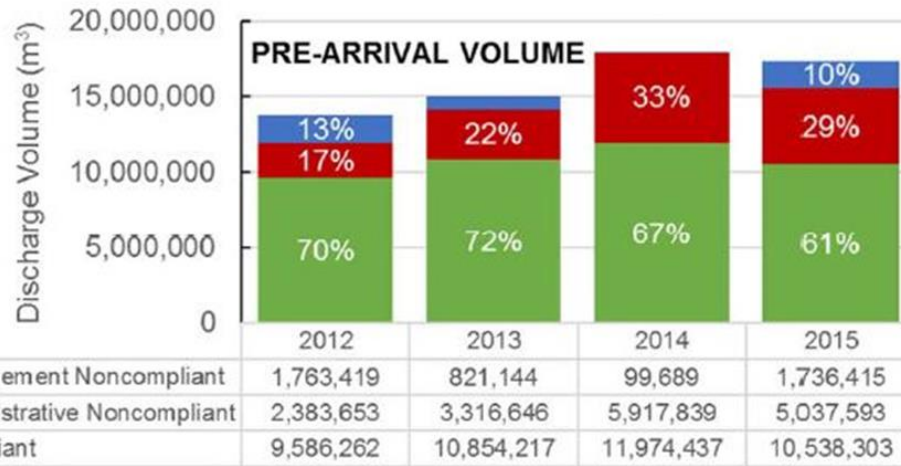


Figure 22 Number of inspections by inspected vessel type

State Data Analysis

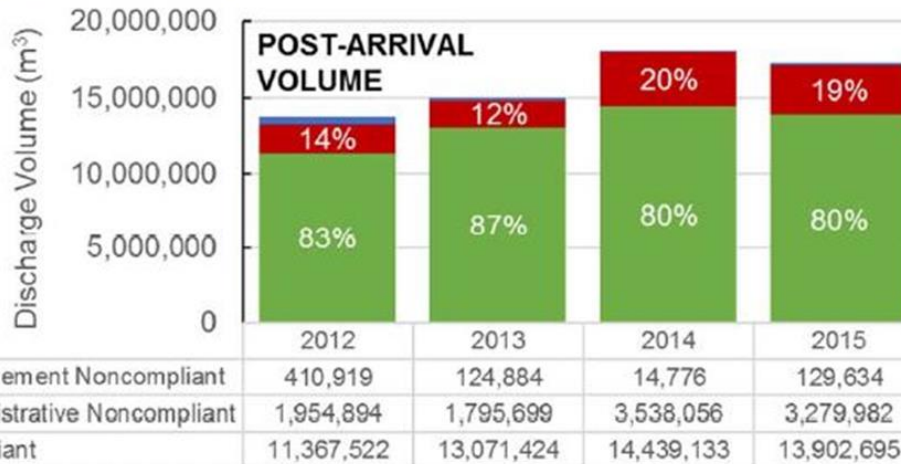


Pre-Arrival (avg.)

Admin NC = 4.2M m³ or 26%

Mmgt NC = 1.1M m³ or 7%

Figure 26 Discharge volume by pre-arrival compliance



Post-Arrival (avg.)

Admin NC = 2.6M m³ or 17%

Mmgt NC = 0.2M m³ or 1%

Figure 27 Discharge volume by post-arrival compliance

Challenges

- **Funding**
- **Transition to Treatment**
- **Implementing 6-Year Strategic Plan**
- **Federal Vessel Incidental Discharge Act**

Thank You!

QUESTIONS?

allen.pleus@dfw.wa.gov

www.wdfw.wa.gov/ais/ballast