



Ballast Water Program Update

Oregon Department of Environmental Quality

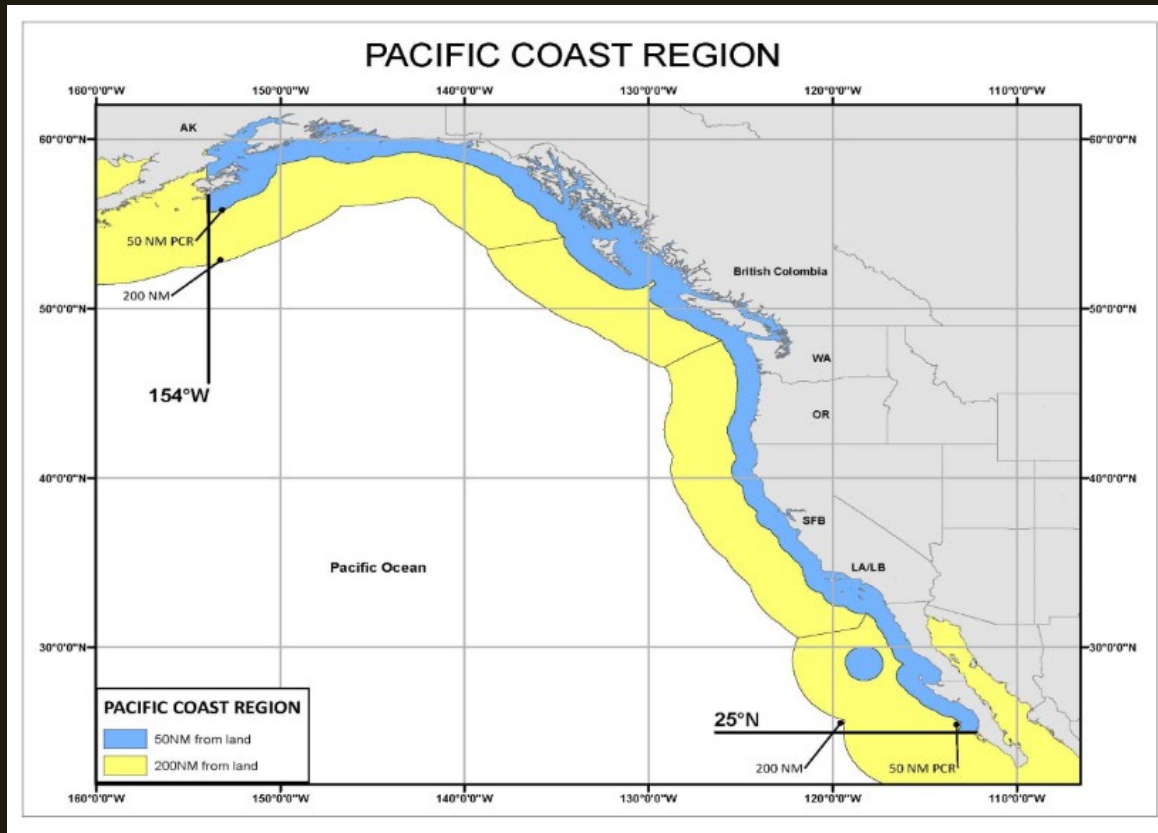
Josh Emerson
Pacific Ballast Water Group
24 April 2024

Outline

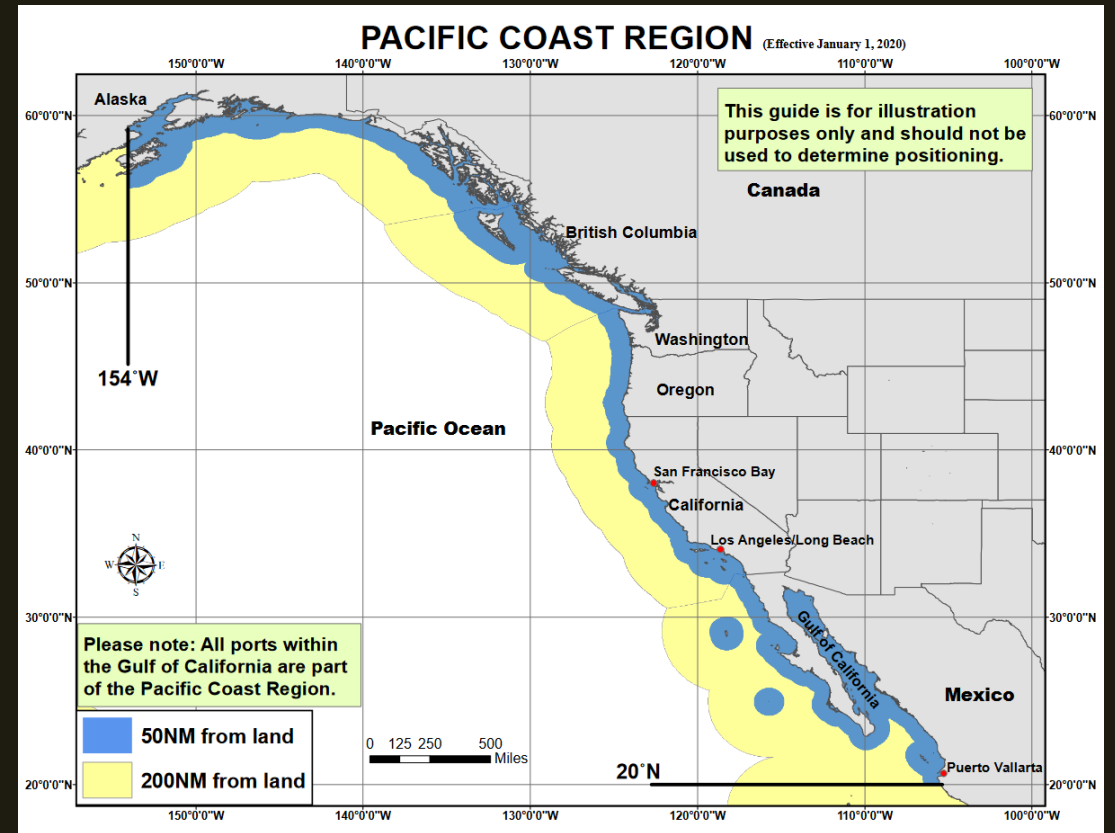
- I. Program Updates
- II. 2023 Summary Data
- III. Ongoing Projects
- IV. Neverending Challenges

2023 Rulemaking

Before



After



2023 Rulemaking



E+T in place in Oregon since 2017



E+T more protective than treatment alone



VIDA has incorporated E+T, applied it to Pacific Region



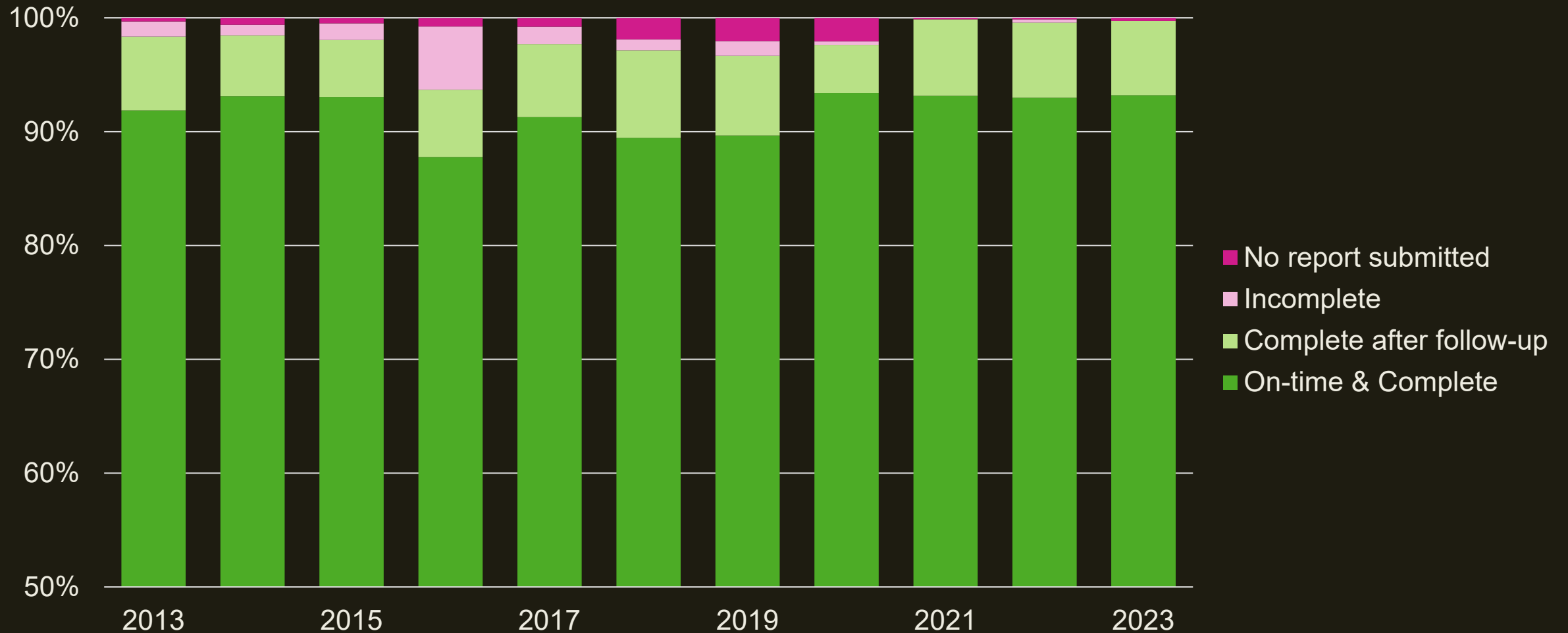
VIDA signed into law, but not in force until at least 2026



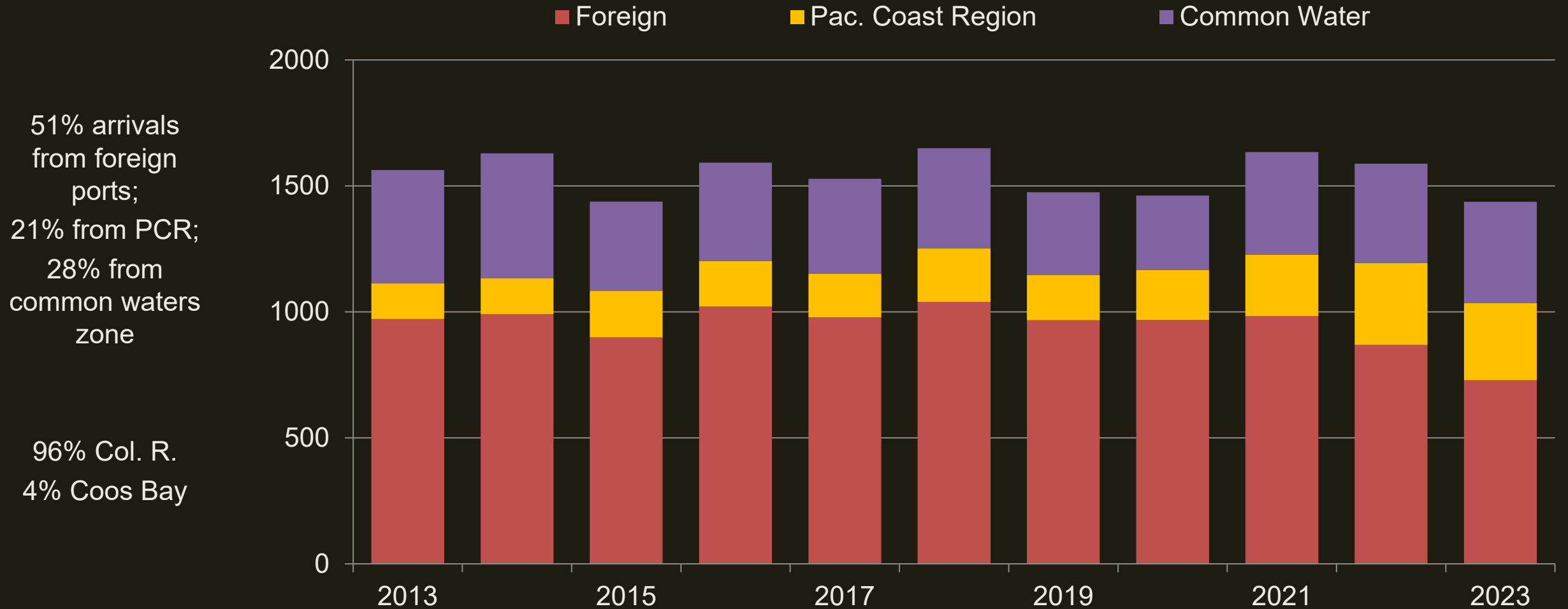
Oregon's rule sunsets in 2023, creating a gap in protection



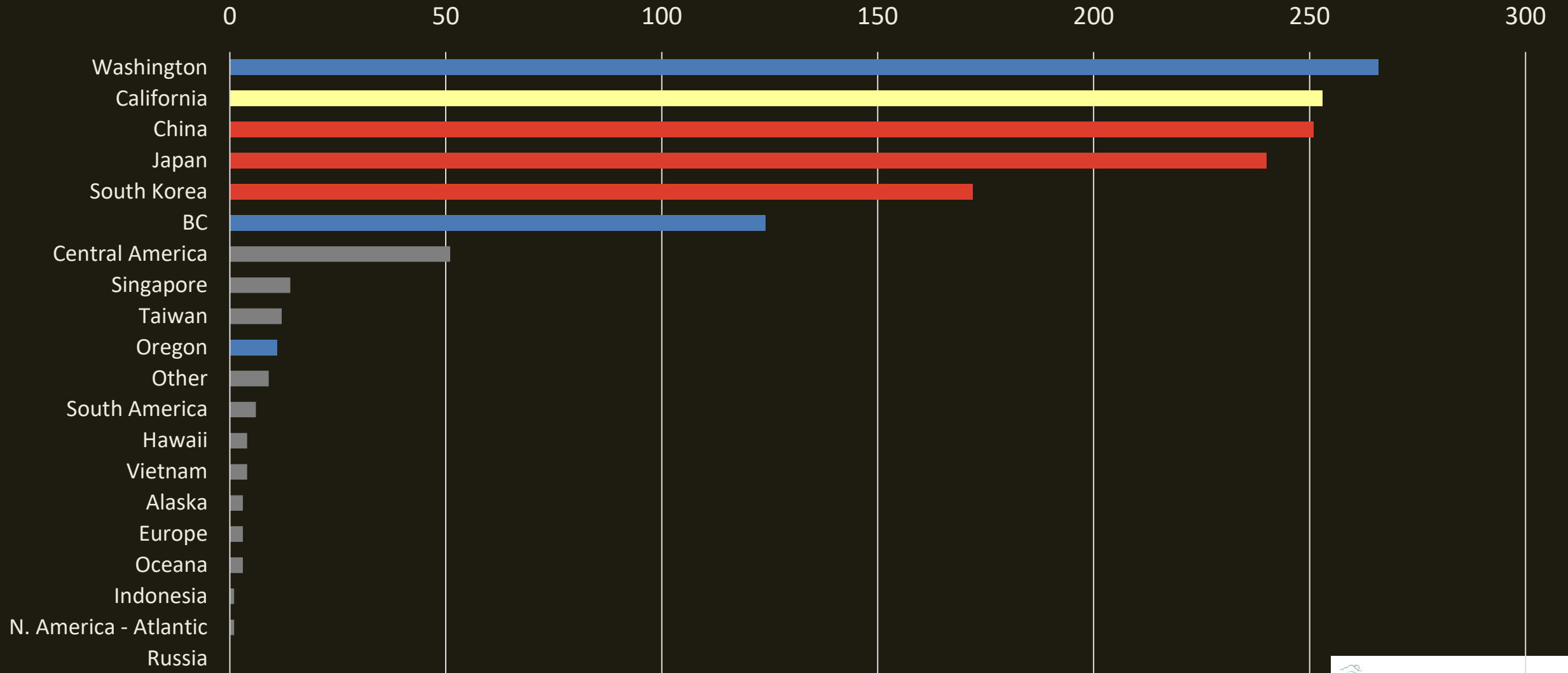
Reporting Compliance



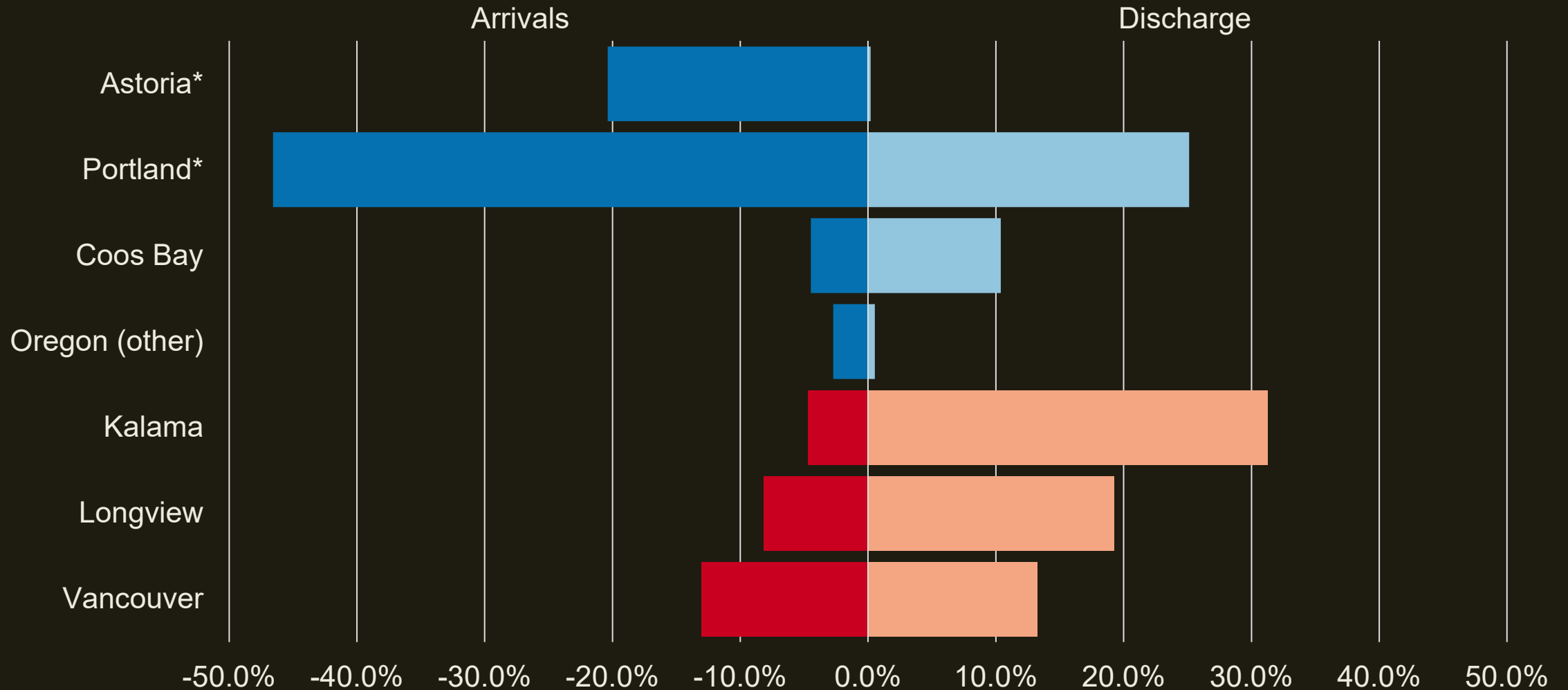
Arrival Trends – Last Region



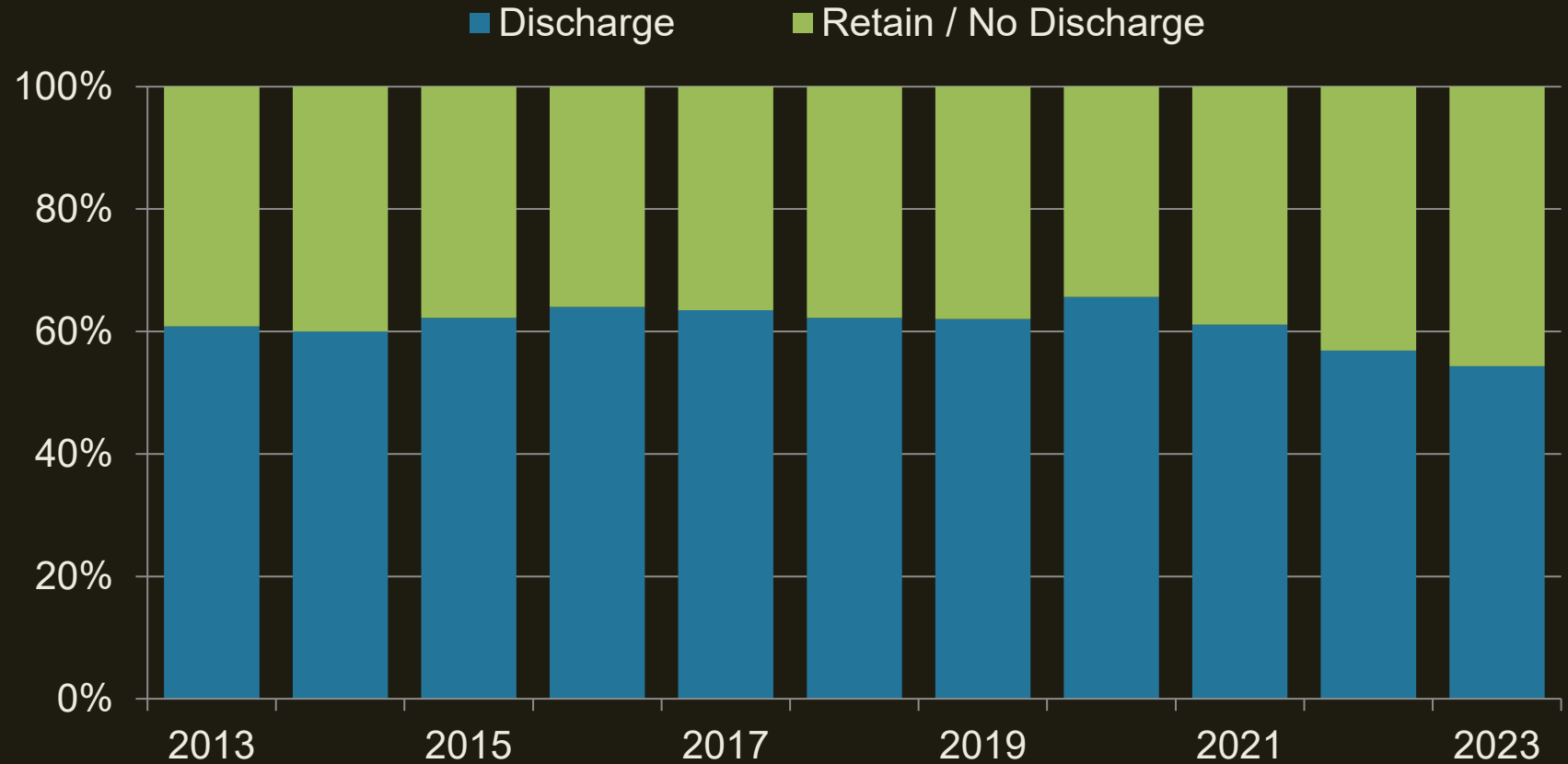
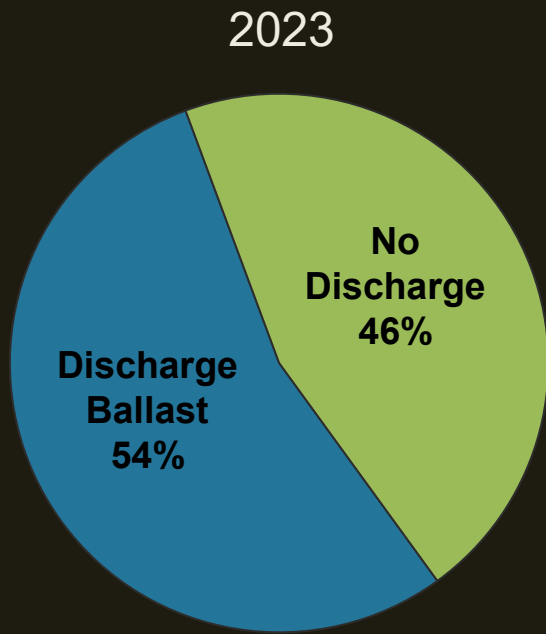
2023 Arrivals – Last Port



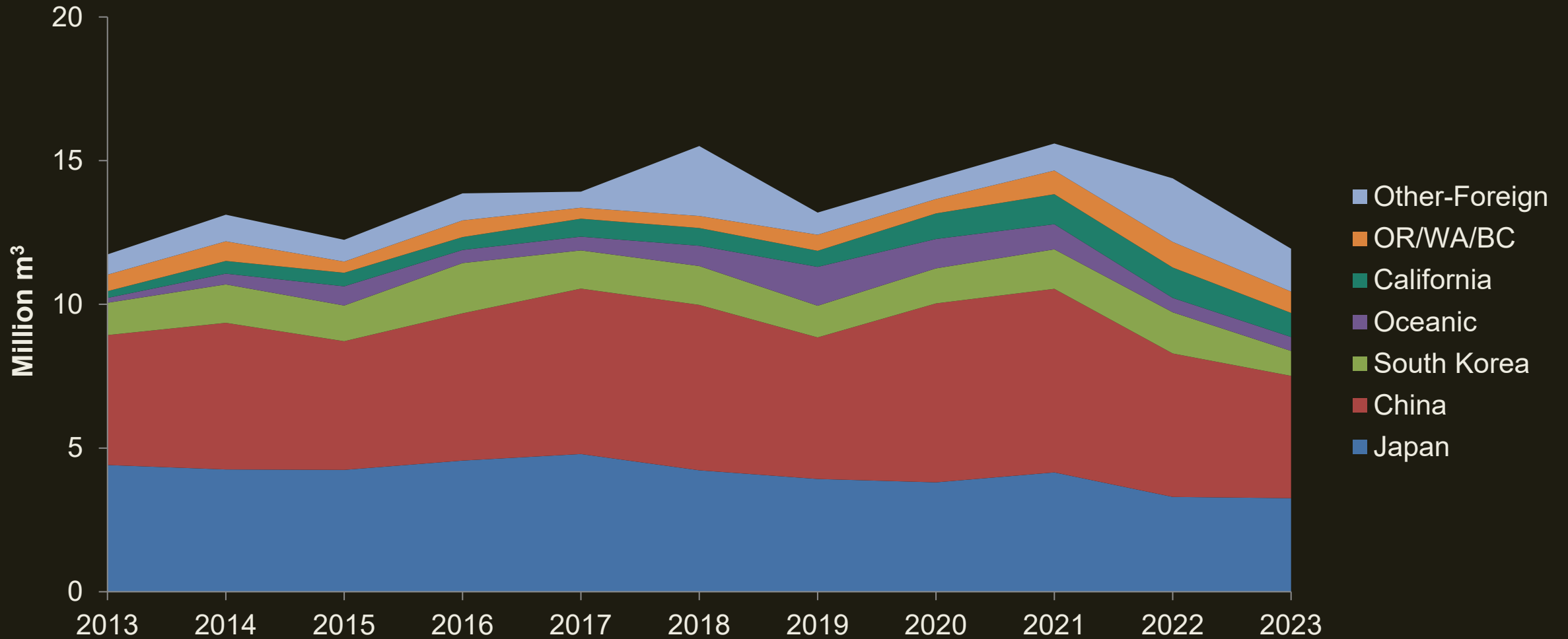
Columbia River – Arrivals vs. Discharge



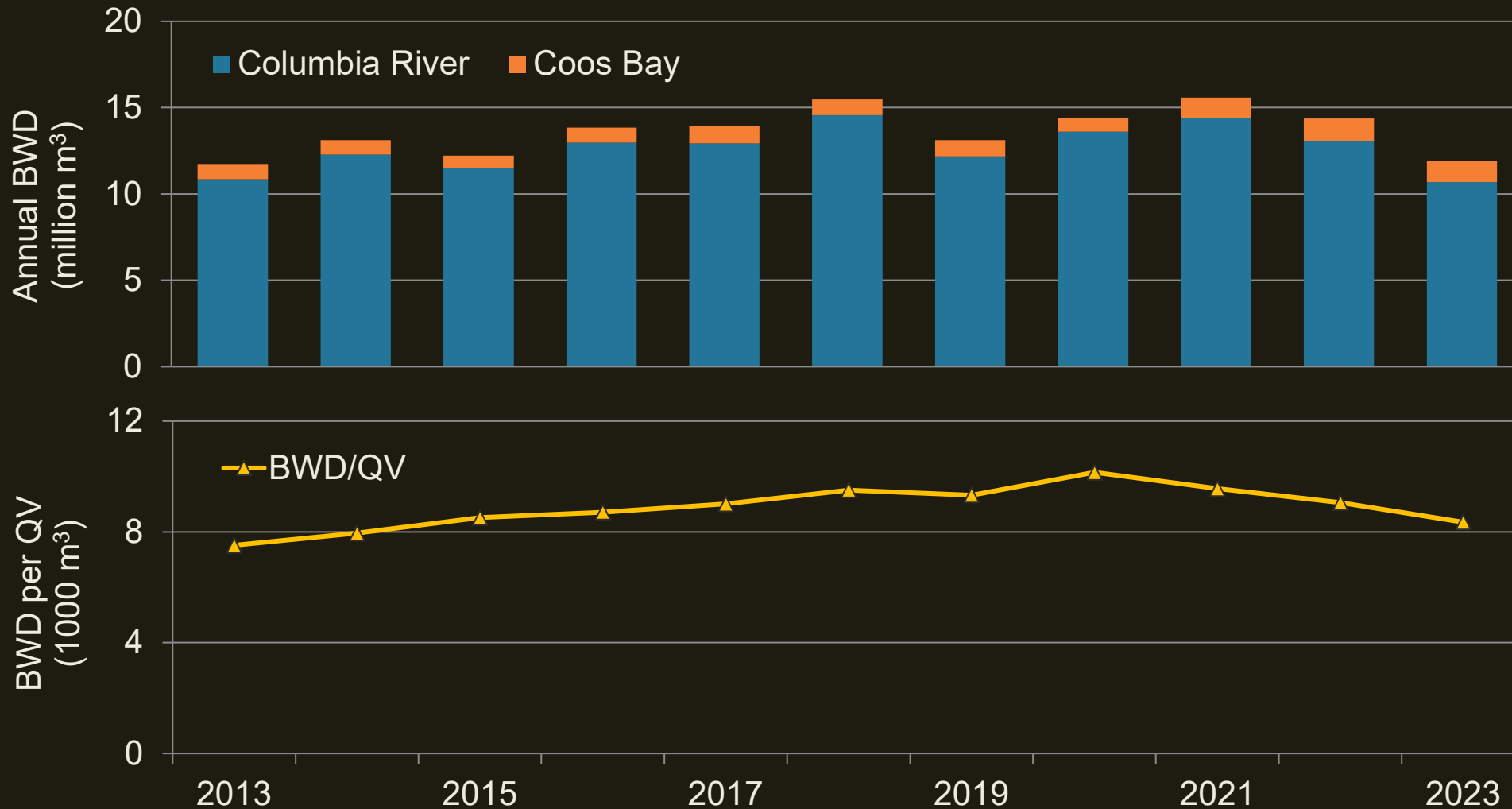
2023 Discharge Rate and Trend



Discharge Trend - Source



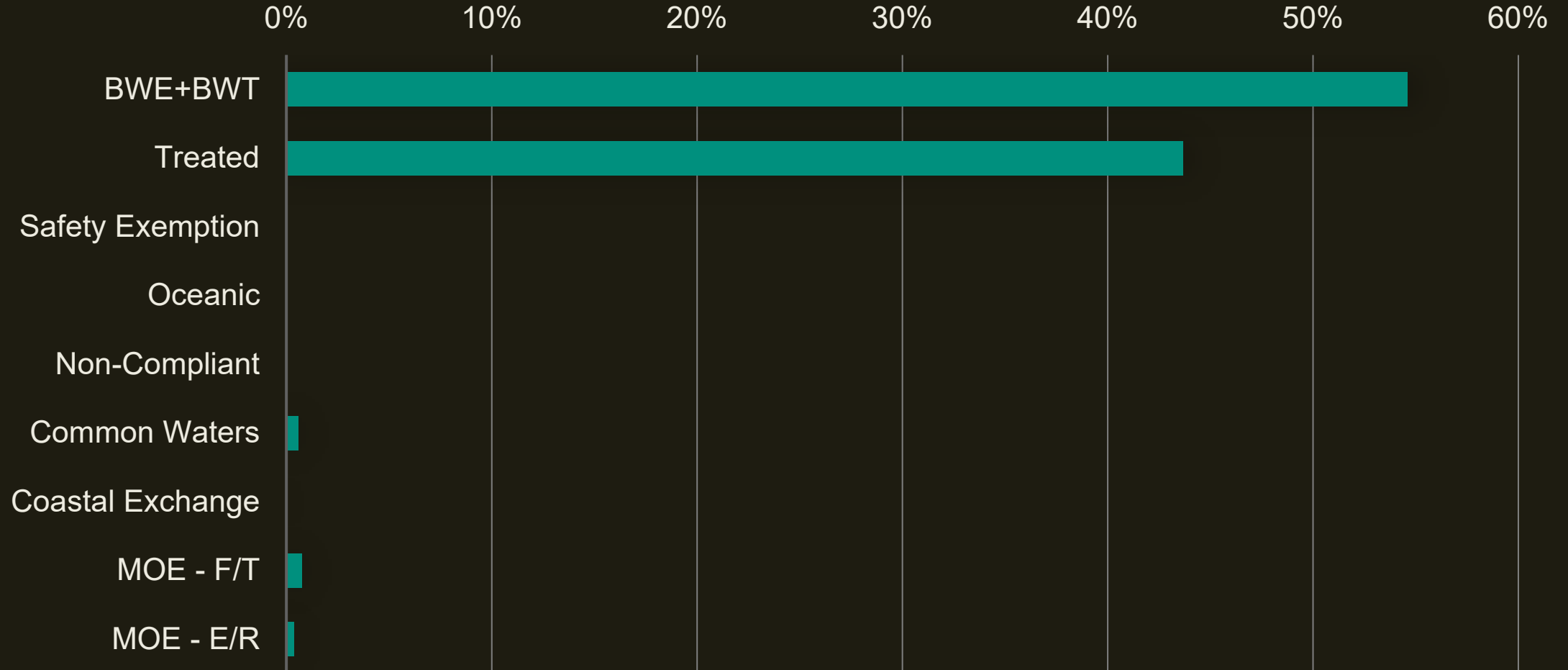
Discharge Trends - Oregon



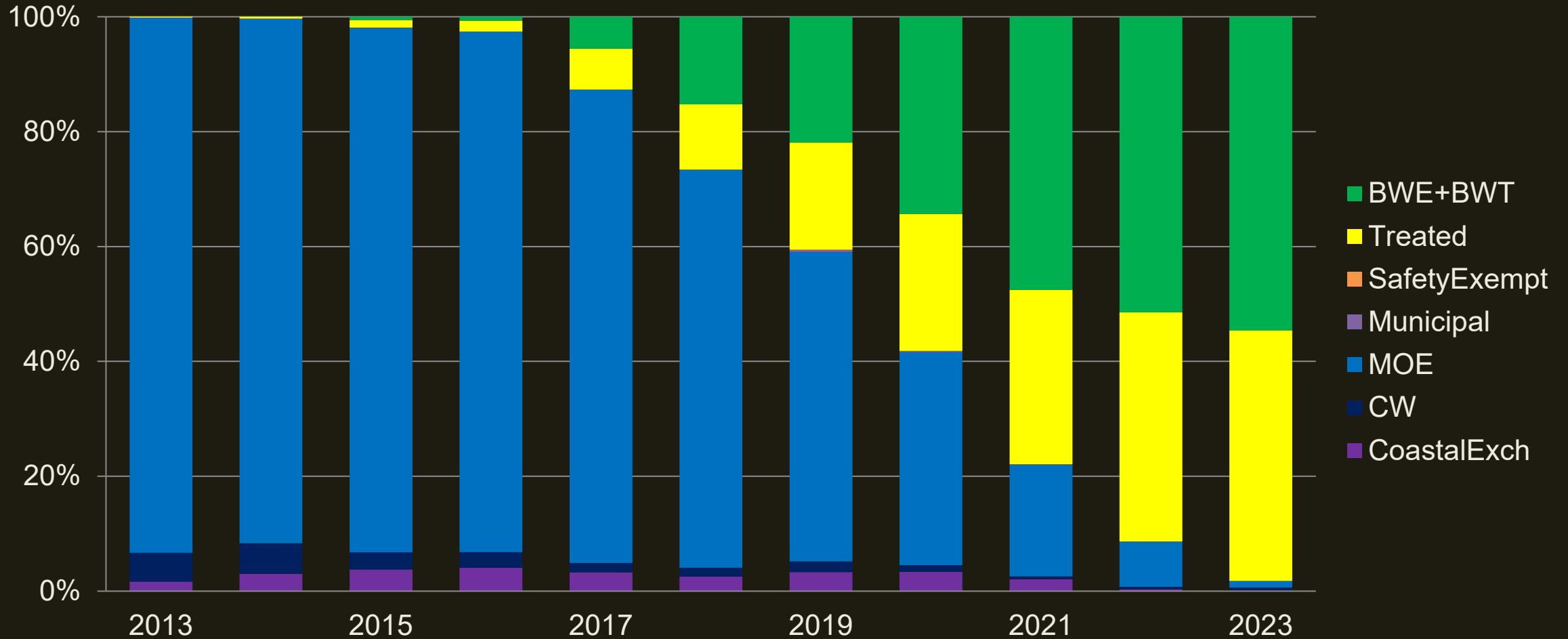
11.8 Million m³ discharged to Oregon waters in 2023

64% of CR discharge occurred at WA side facilities

Management Snapshot – 2023



Management Trend



On the Horizon...

I. VIDA

II. Database Replacement

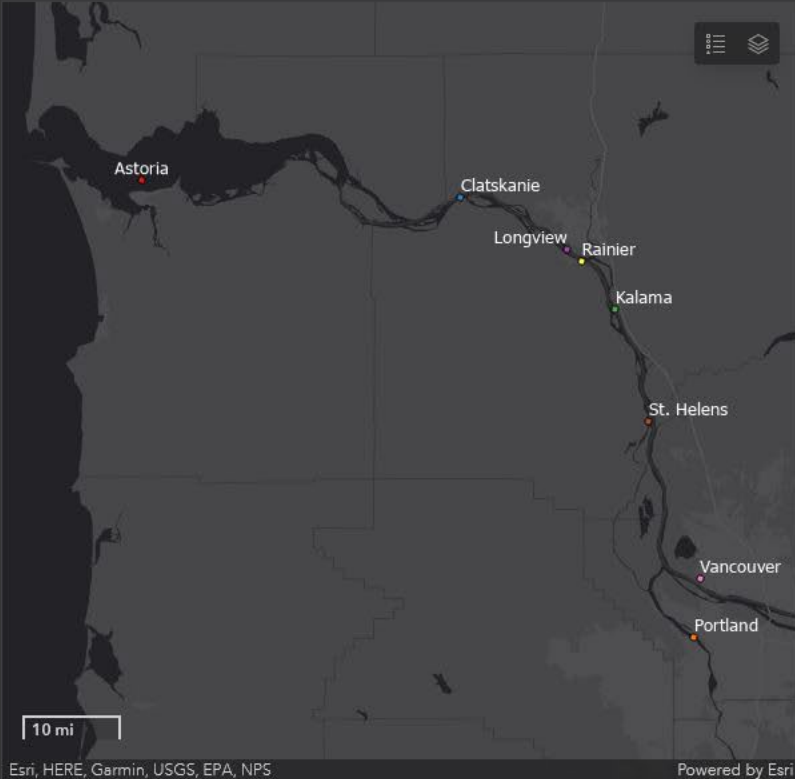
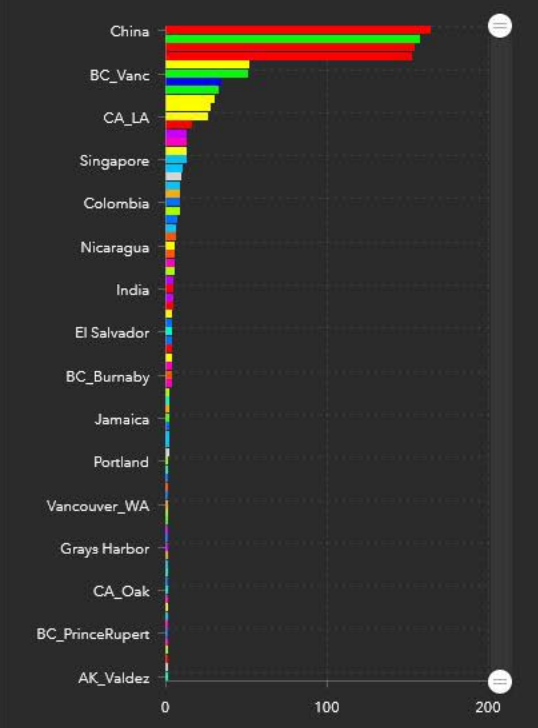
III. Inspector Resources

IV. Son of PacDash

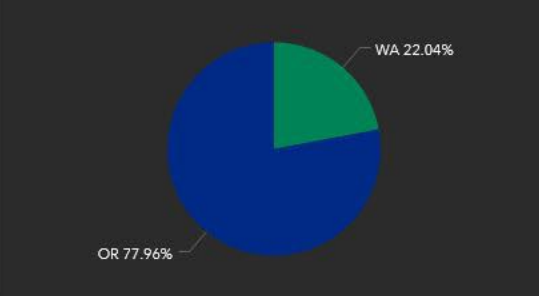
Ballast Water Dashboard - Concept

Arrivals

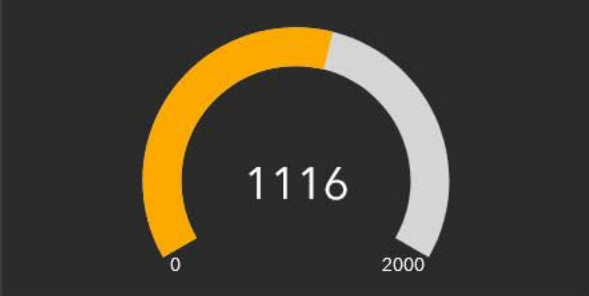
Arrivals by Last Port (Top 10)



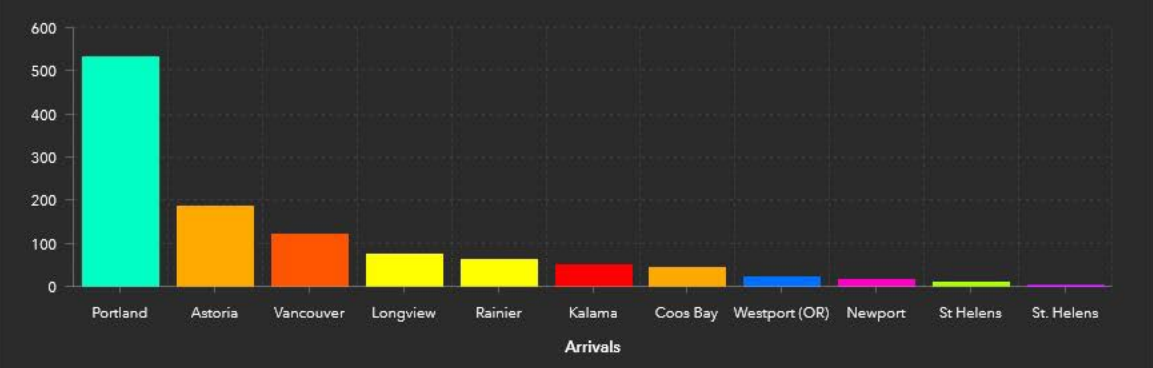
Arrivals by State



Total Arrivals



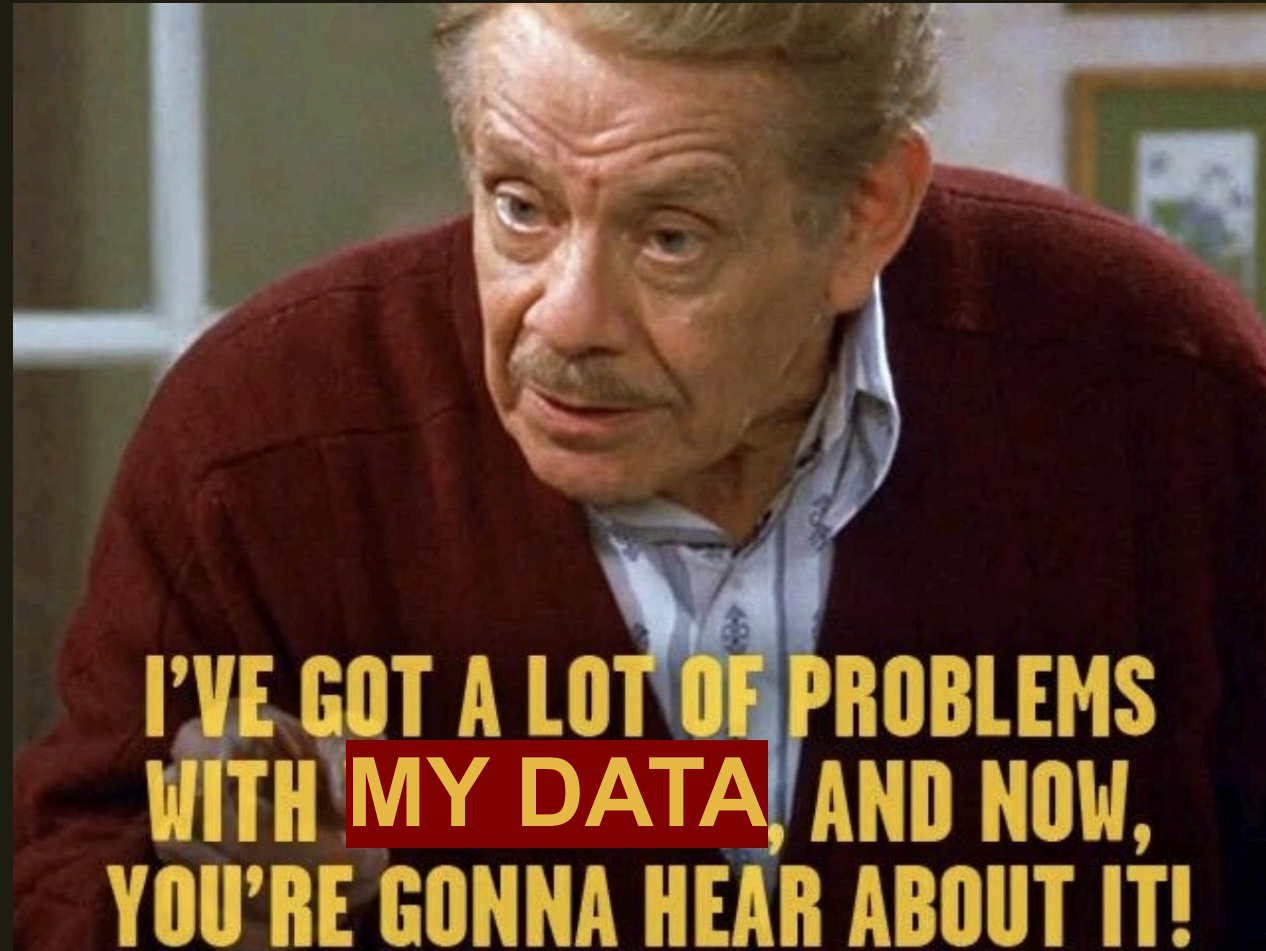
Arrivals by Port



Arrivals by Month



Data Issues



Data Issues

- no QC process!
- naming scheme for barges
- IMO number and renamed vessels
- vessel type not currently in database
- AMS/TA not attached to vessel
- geographic IDs not standardized; no auto-fill
- vessel history functionally nonexistent
- Columbia River is wonky (thank you, Grace!)

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