

Cowlitz Annual Program Review and Science Conference

Fish Hatchery Operations

Eric Shoblom / Cowlitz Fish Facilities Manager

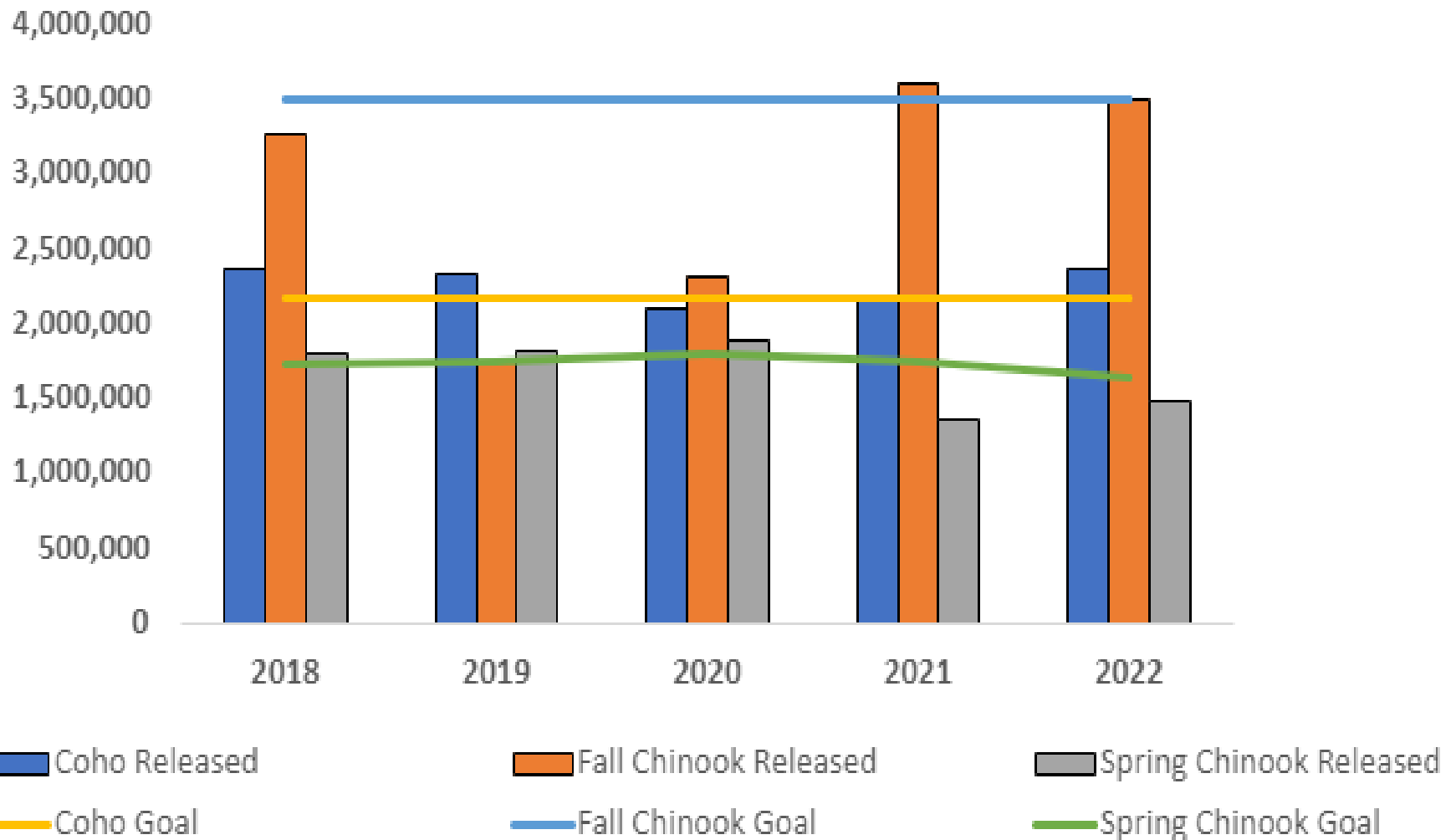
August 22, 2023

Overview

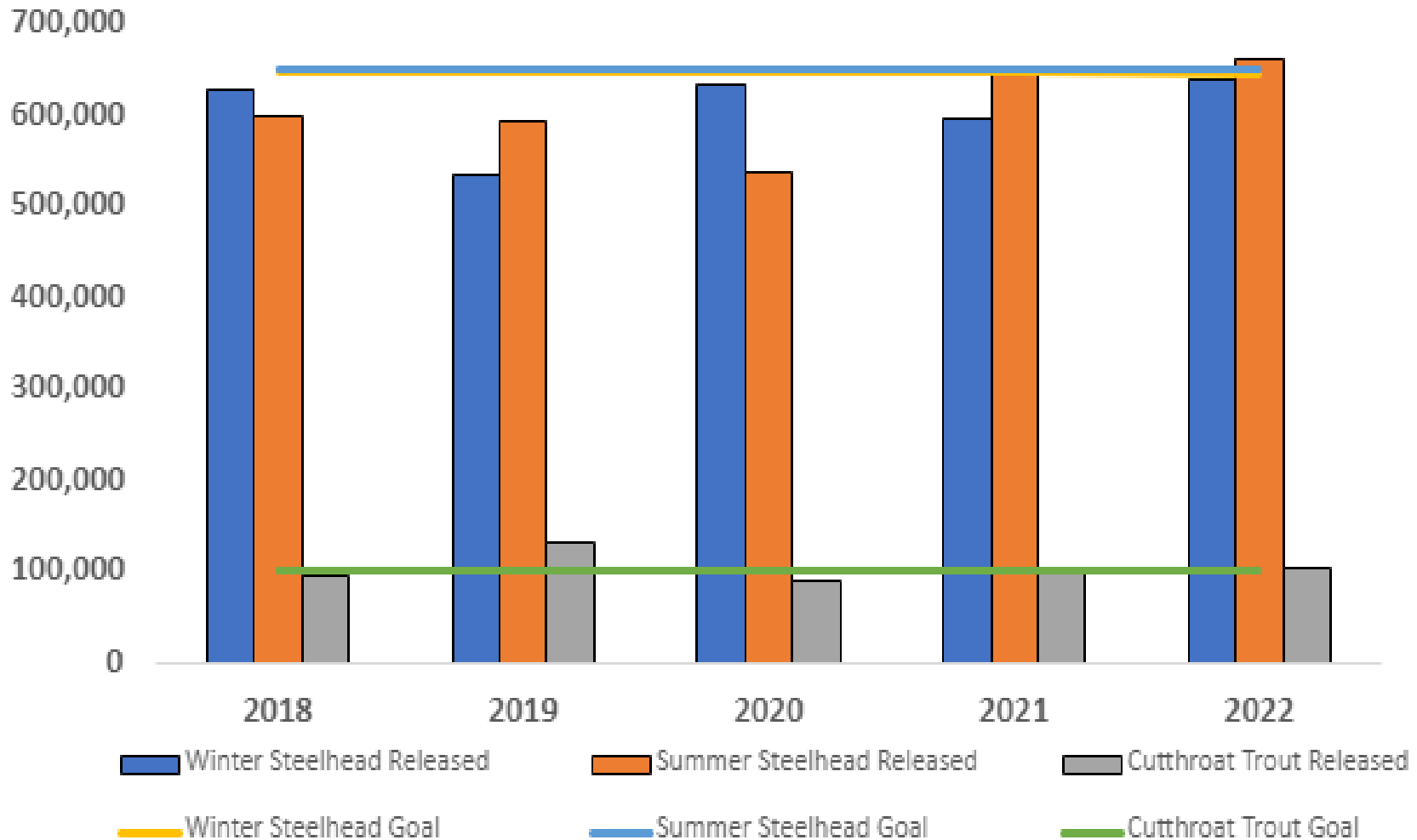
- Hatchery performance
 - Production goals vs. actuals
- General updates



Cowlitz Salmon Hatchery Releases (5 Years)



Cowlitz Trout Hatchery Releases (5 Years)



Updates

Barrier Dam Spillway Upgrade Project



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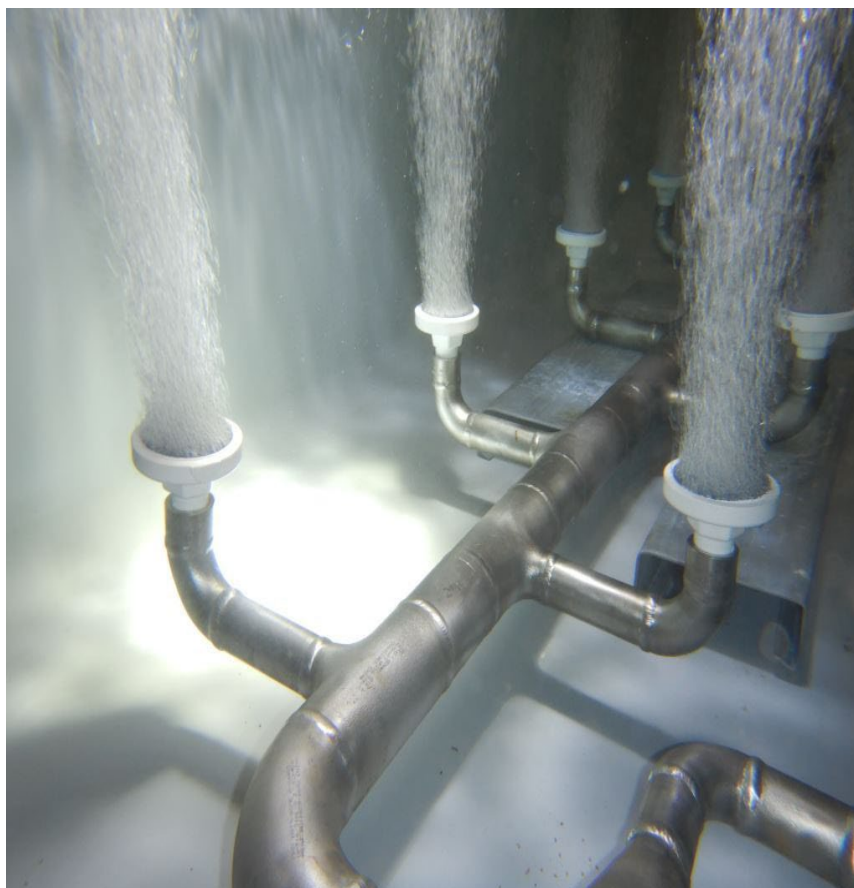
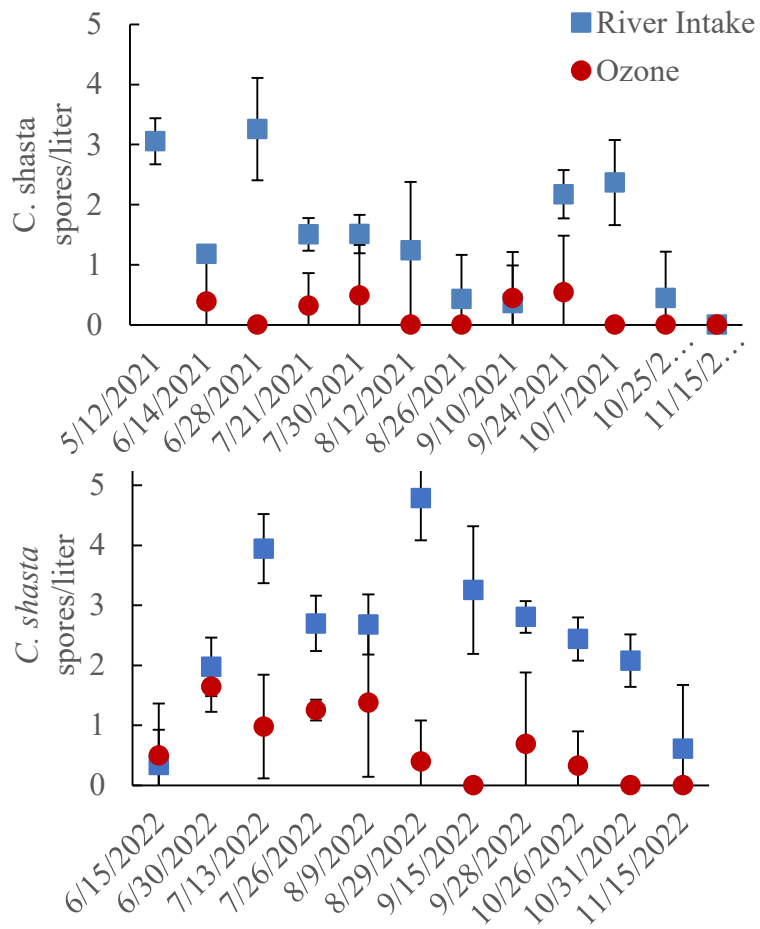


Cowlitz Salmon Hatchery

Fish Health Challenges

- Difficult to quickly mark millions of fish, can lead to space bottlenecks → Continued coordination and monitoring
- Fall Chinook nutritional gill disease → Work with feed companies to optimize strategies
- Gut parasite, *C. shasta*, in Spring Chinook → Monitor long-term effects of dredging intake for *C. shasta* within hatchery

Ozone Plant Improvements



Bacterial Coldwater Challenges

Bacterial Coldwater Disease

- Frequent occurrence throughout rearing cycle
- Multi-factor stressors lead to disease development from fry to smolt stages
- Seems to be facility/stock specific
- Seems to be parent-specific
- Possible association with well/spring water

Improvements

- Ovadine
- Lighter loadings
- Vacuuming raceways
- Routine topical treatments





Questions?

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