

Recent Trends in Cowlitz River Salmon and Steelhead Harvest

John Serl – WDFW Cowlitz River Biologist

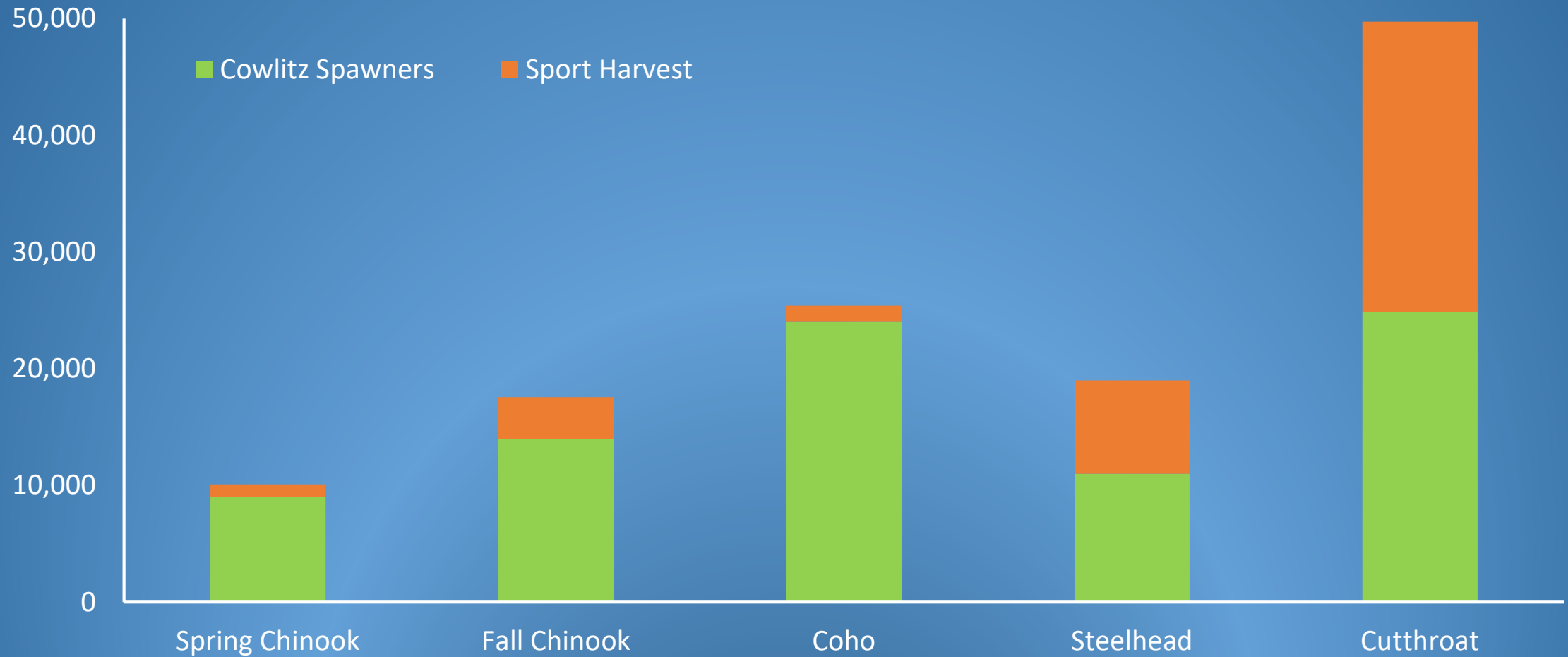
Josua Holowatz – WDFW District Fish Biologist



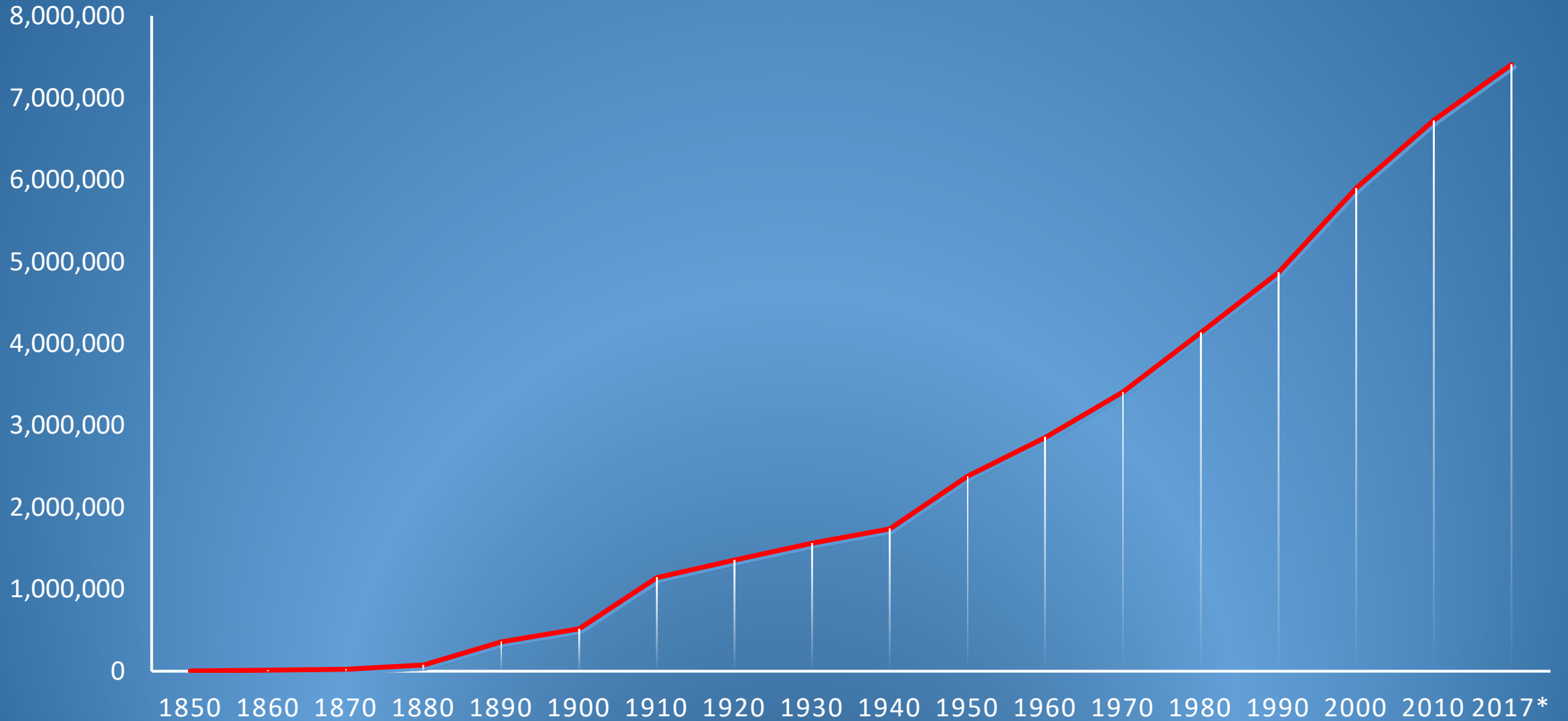
Cowlitz River Annual Program Review
and Fisheries Science Conference

May 19, 2021

1948 Cowlitz River Catch and Spawners



Washington State Population Growth



Source: U.S. Census Bureau

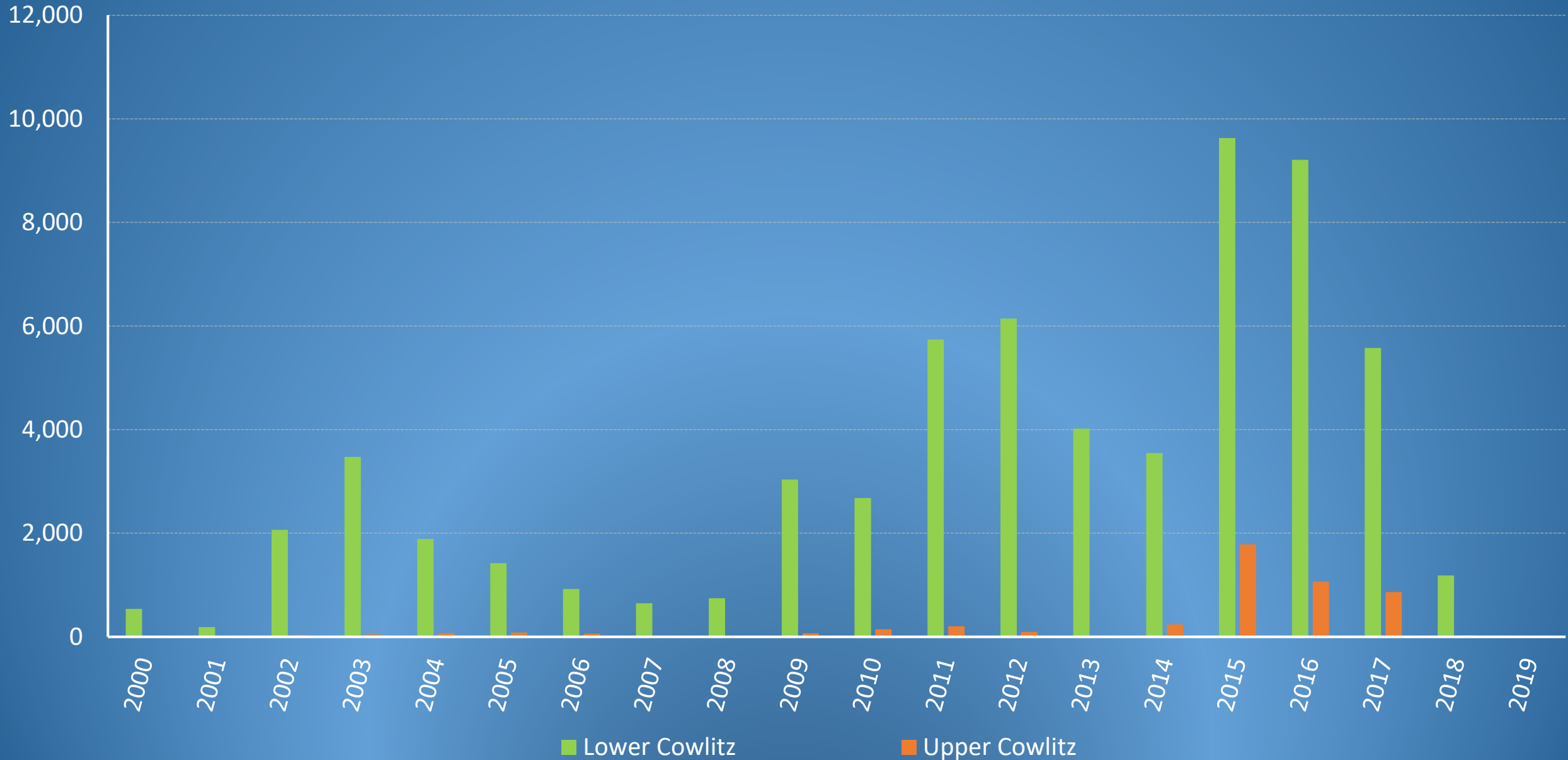
*Estimated

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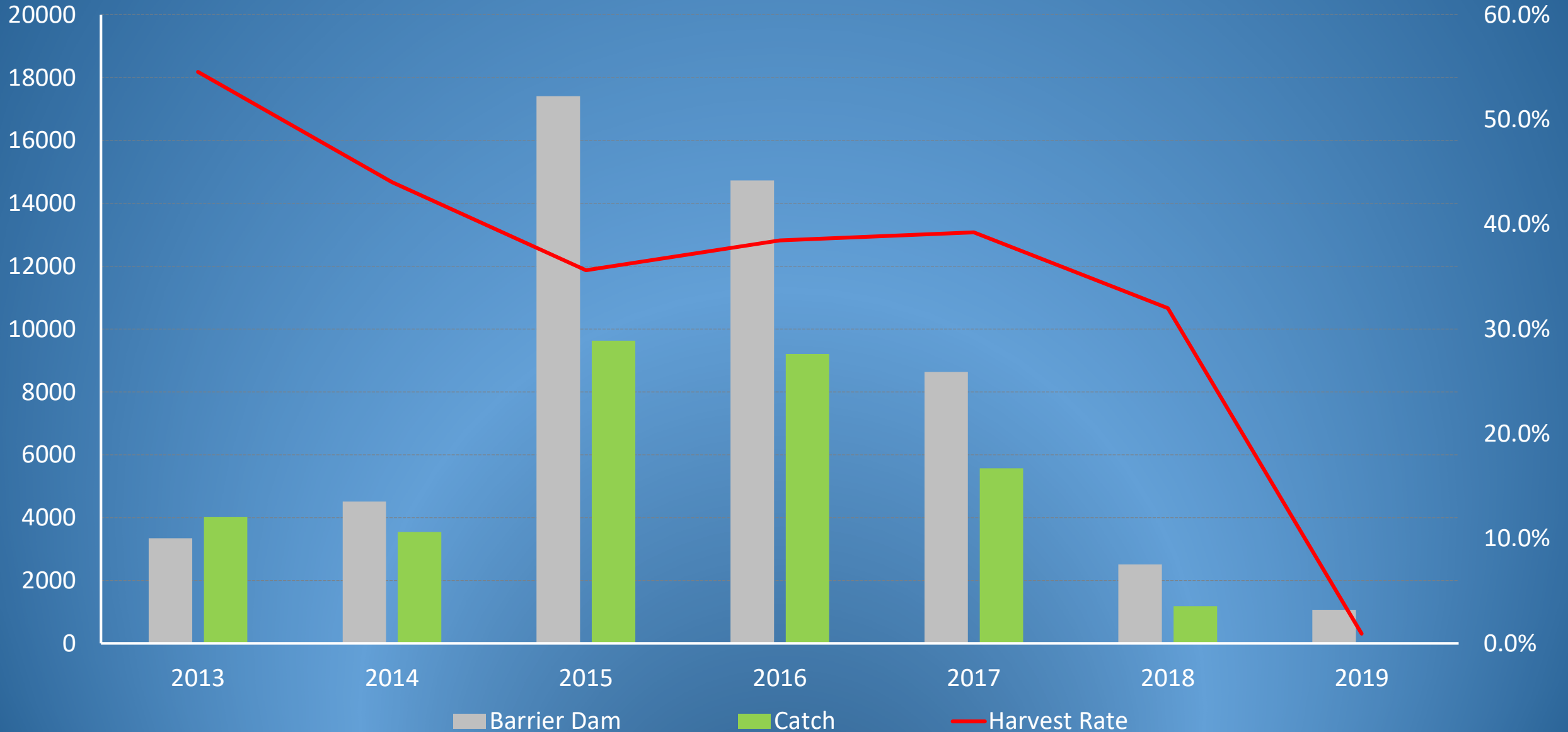
Data Sources:

- Barrier Dam Adult Facility is Operated by Tacoma Power
 - TPU maintains database
 - Broodstock collection, transportation to Upper Cowlitz and Tilton
- WDFW Lower Cowlitz Spot Creel (Tacoma Power-funded)
 - Natural origin fish released : Hatchery fish kept
 - General conditions
- WDFW Catch Record Card Estimates
 - Washington State Sports Catch reports
 - Estimates are expanded from a sub-sample of returned cards
 - *See reports for full methods*

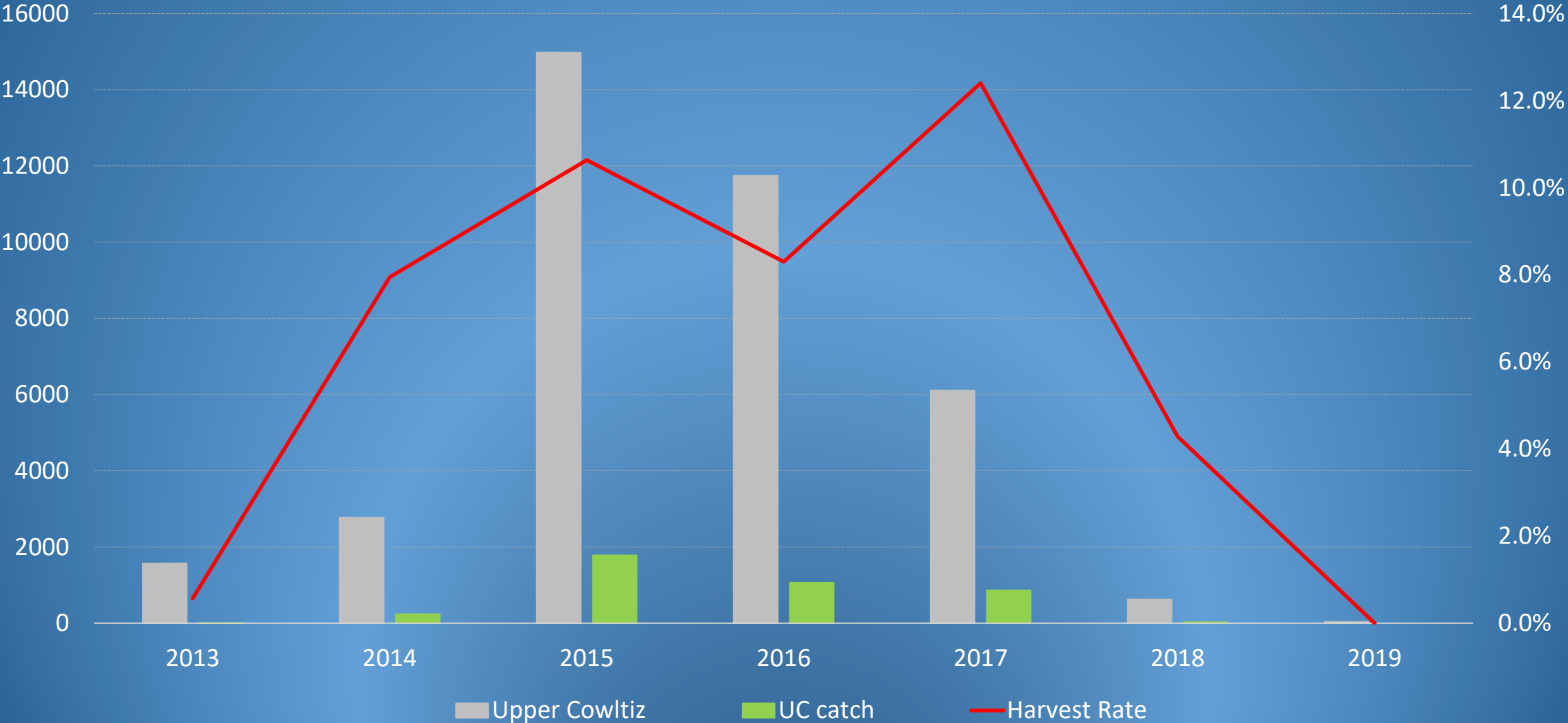
Cowlitz Spring Chinook Harvest, 2000-2019



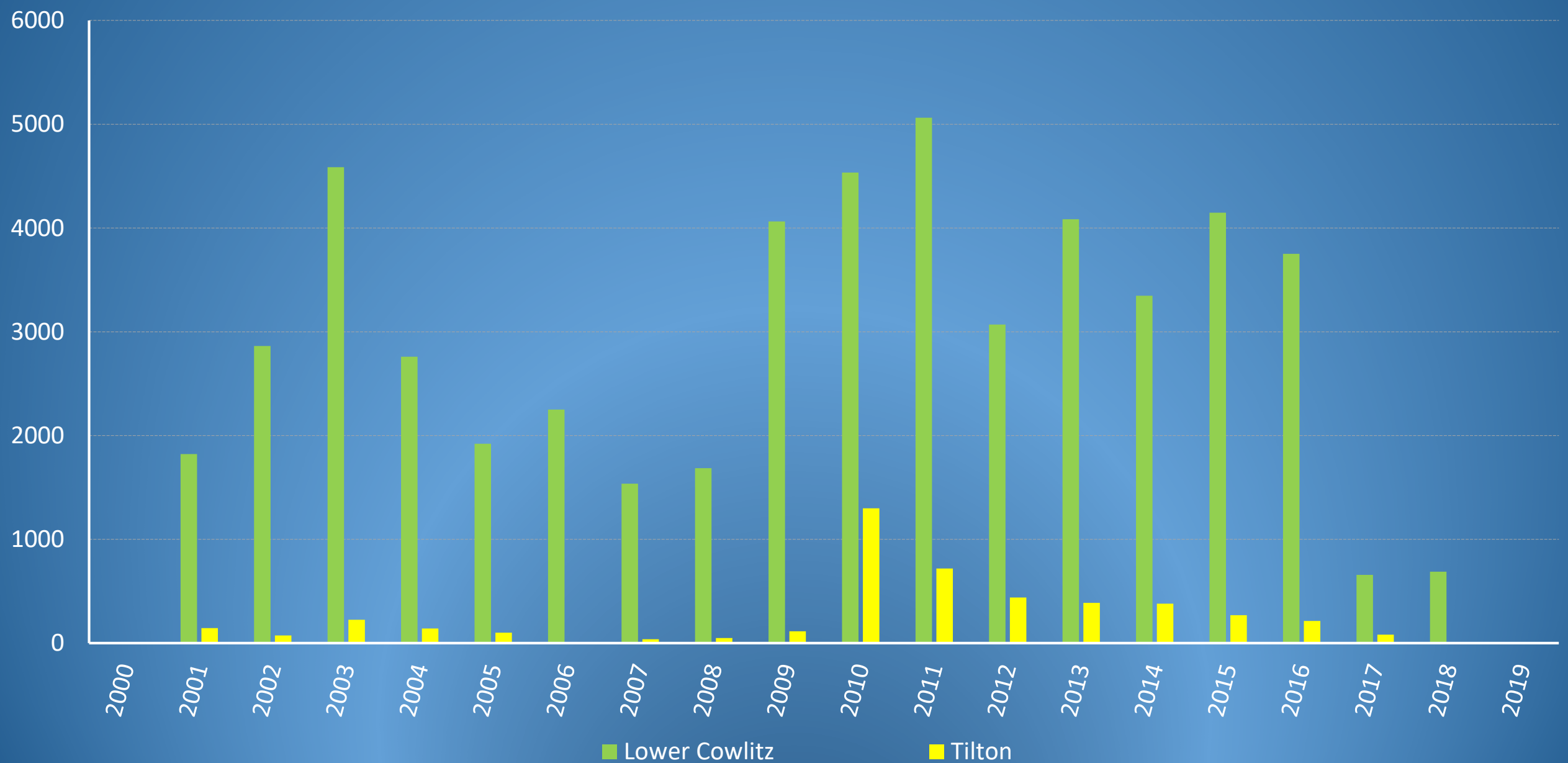
Lower Cowlitz Spring Chinook Harvest, 2013-2019



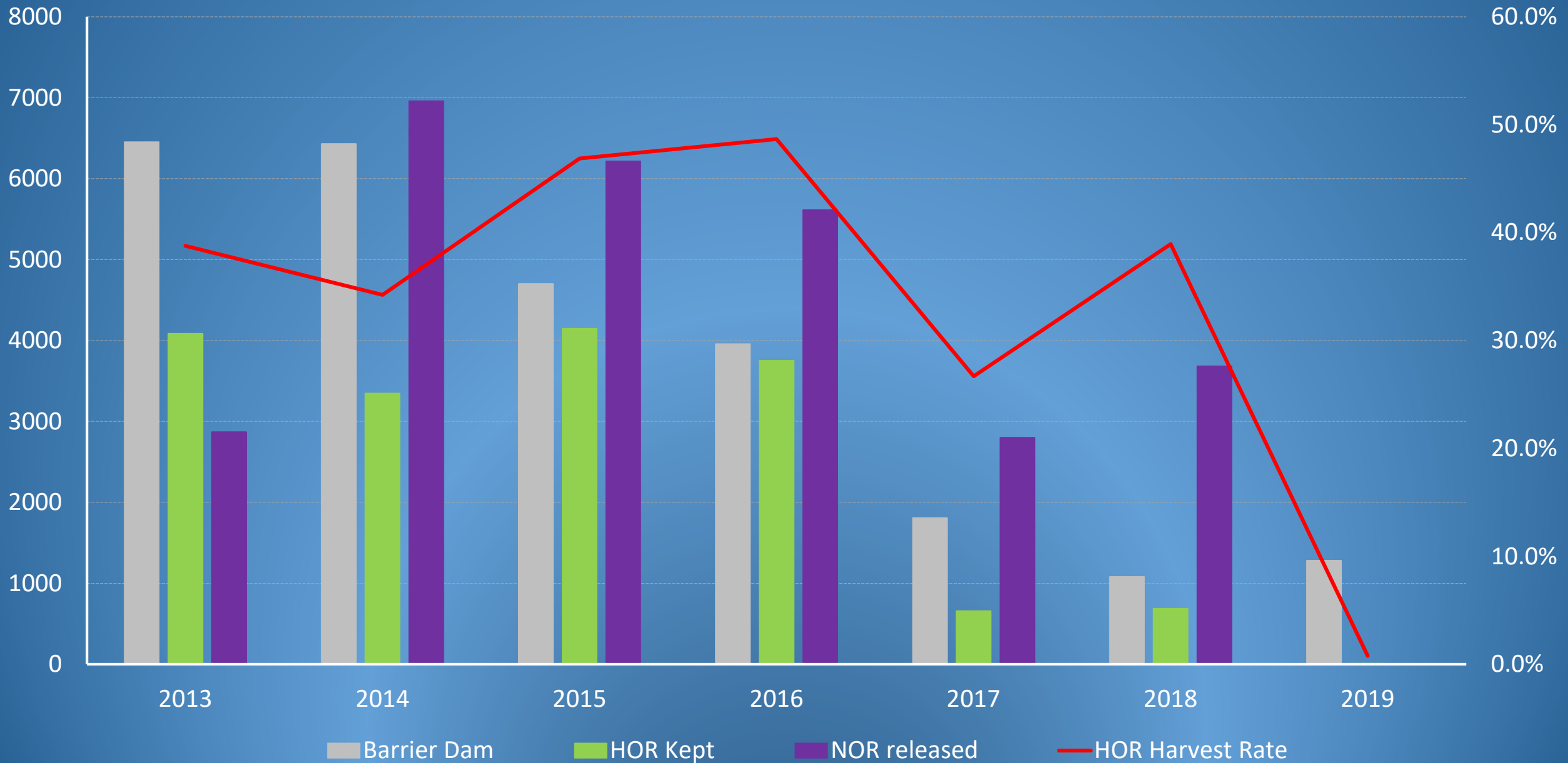
Upper Cowlitz Spring Chinook Harvest, 2013-2019



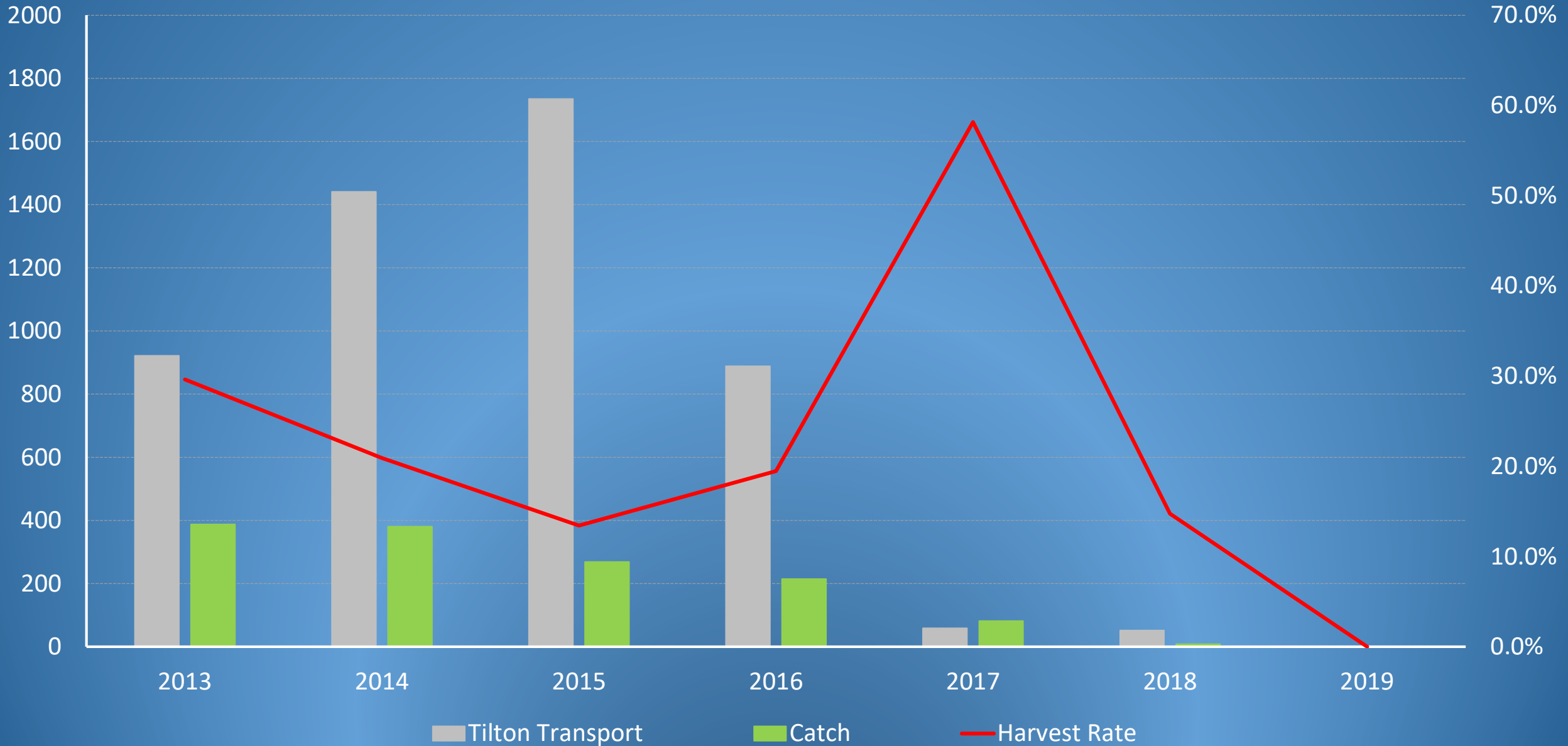
Cowlitz Fall Chinook Harvest 2000-2019



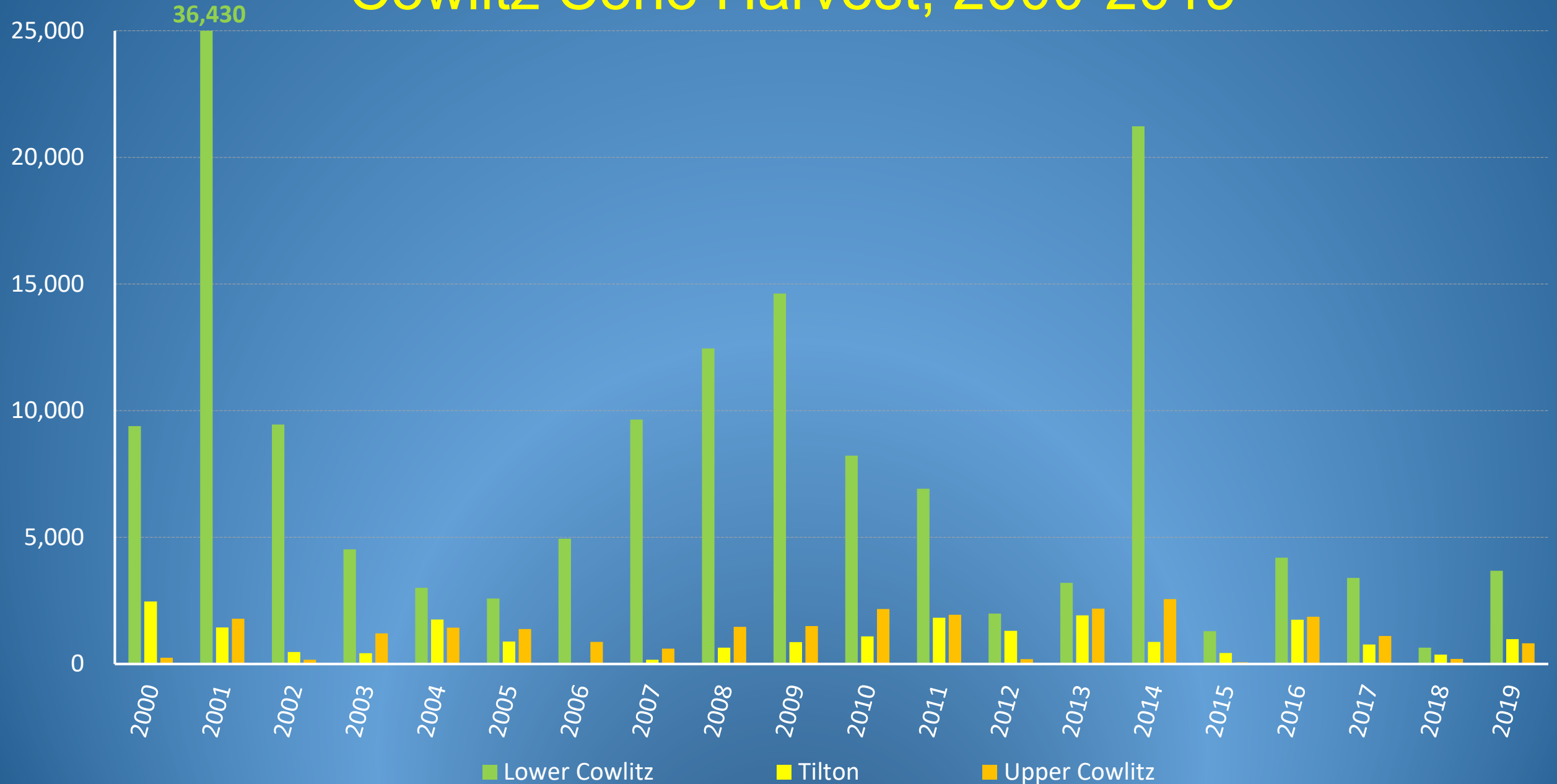
Lower Cowlitz Fall Chinook Harvest 2013-2019



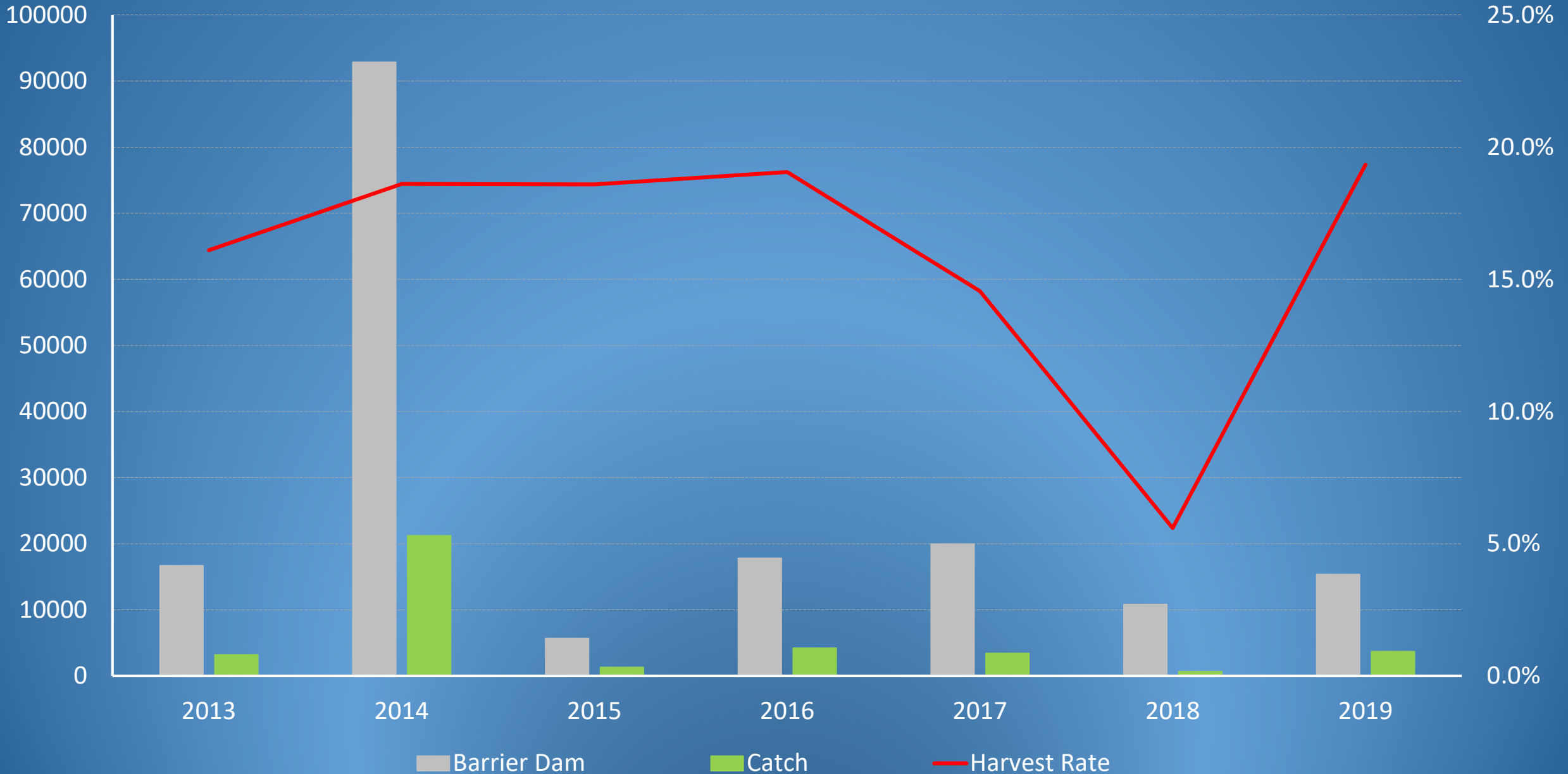
Tilton Fall Chinook Harvest 2013-2019



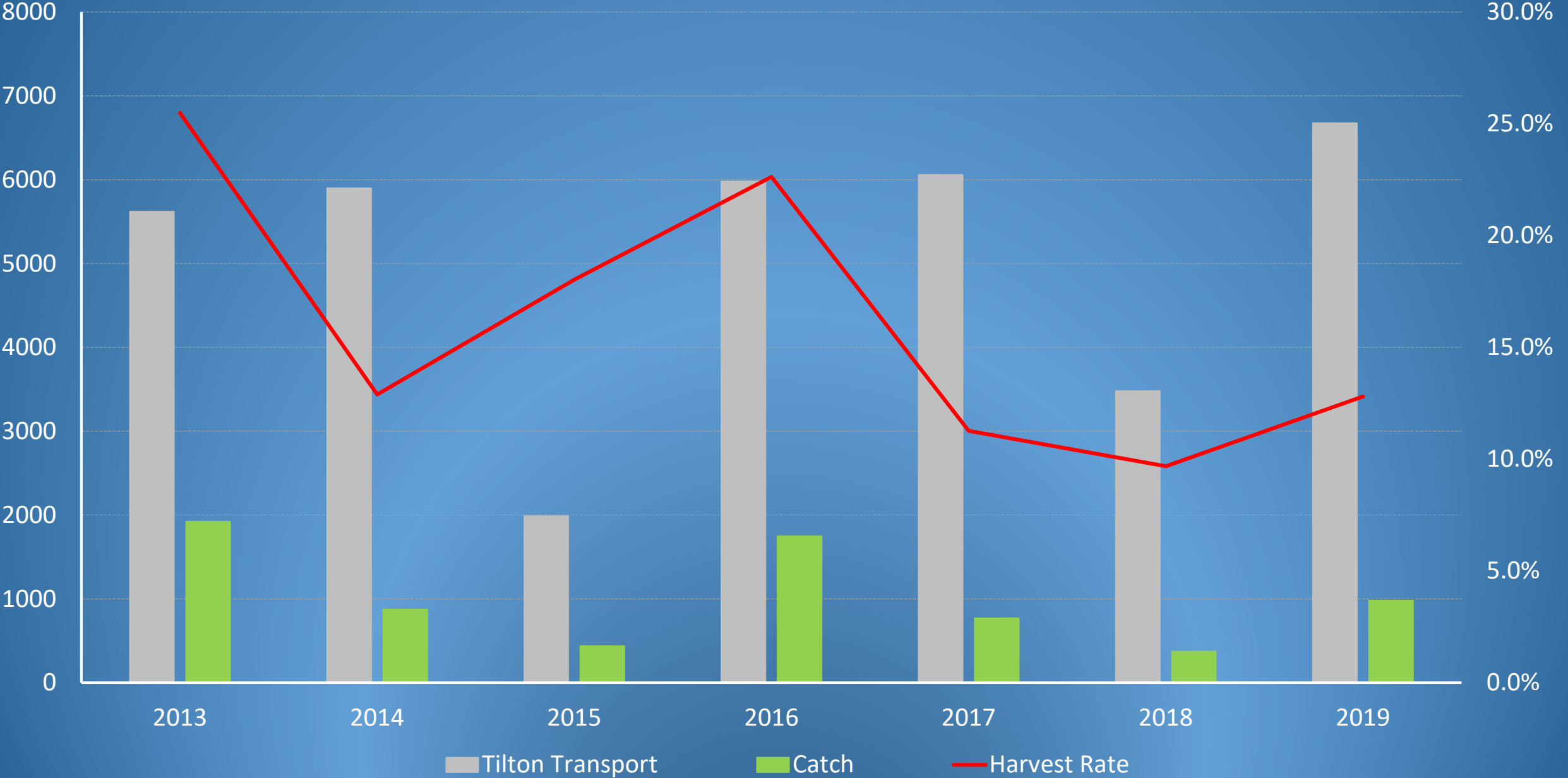
Cowlitz Coho Harvest, 2000-2019



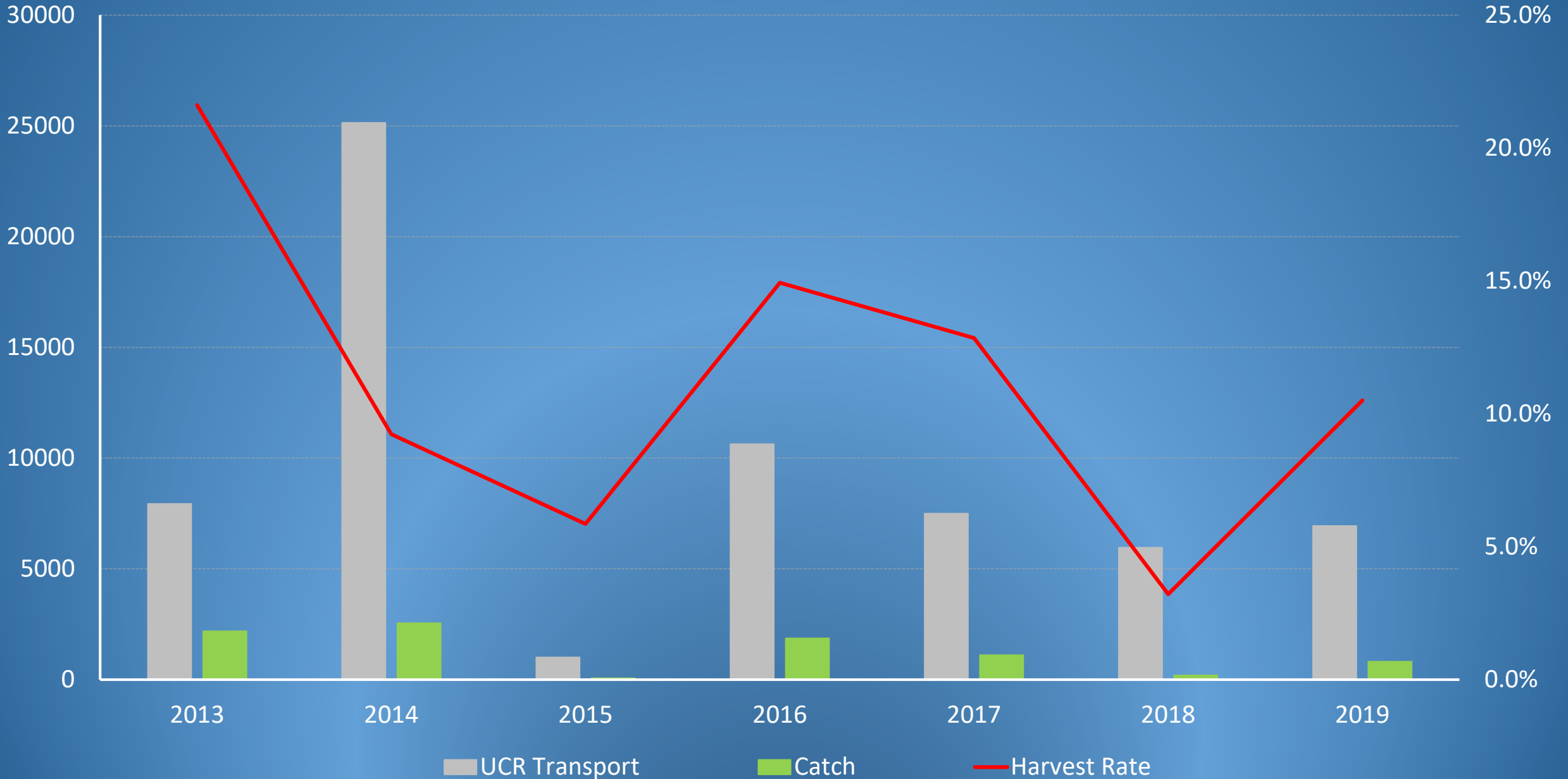
Lower Cowlitz Coho Harvest, 2013-2019



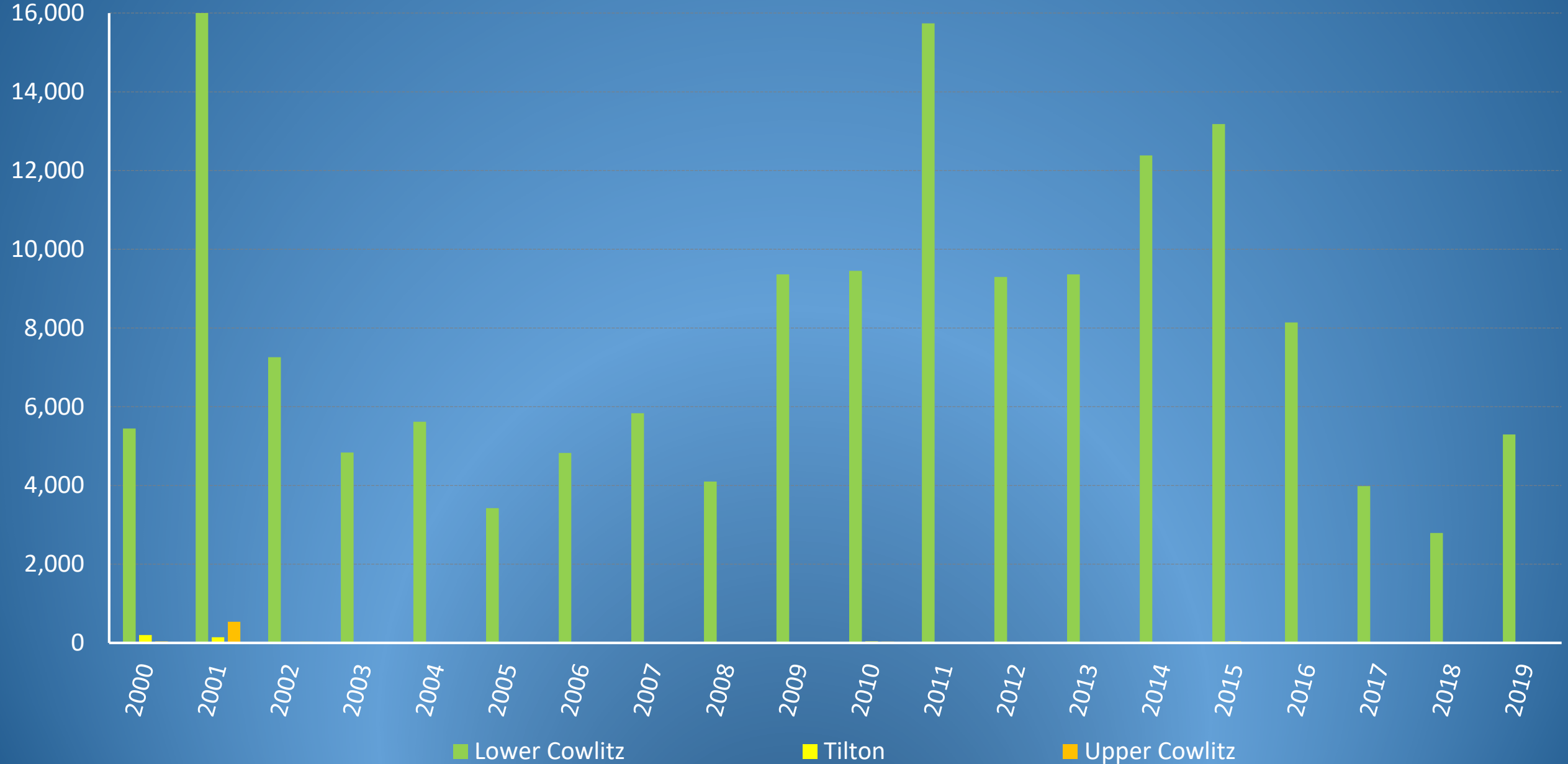
Tilton Coho Harvest, 2013-2019



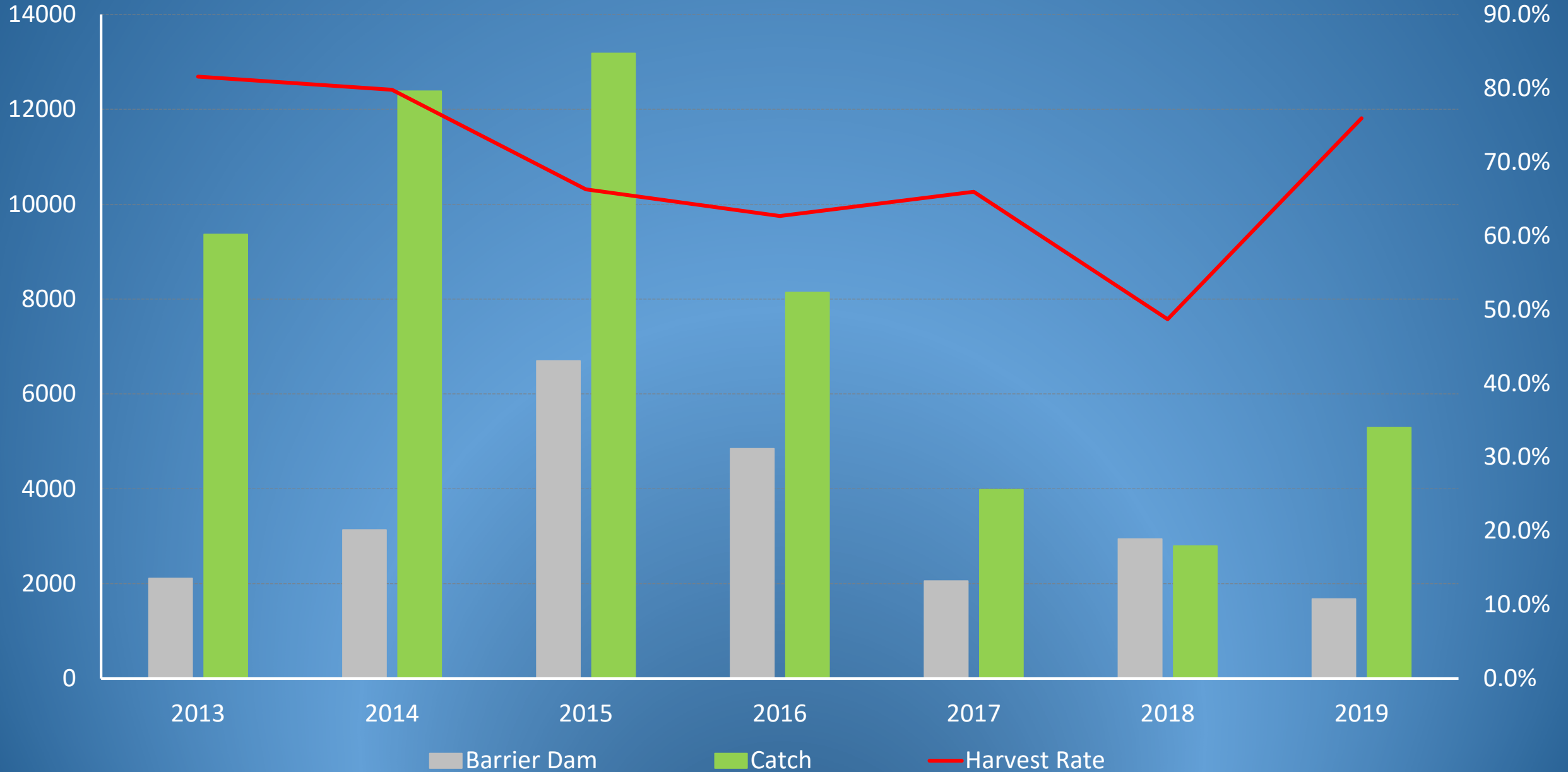
Upper Cowlitz Coho Harvest, 2013-2019



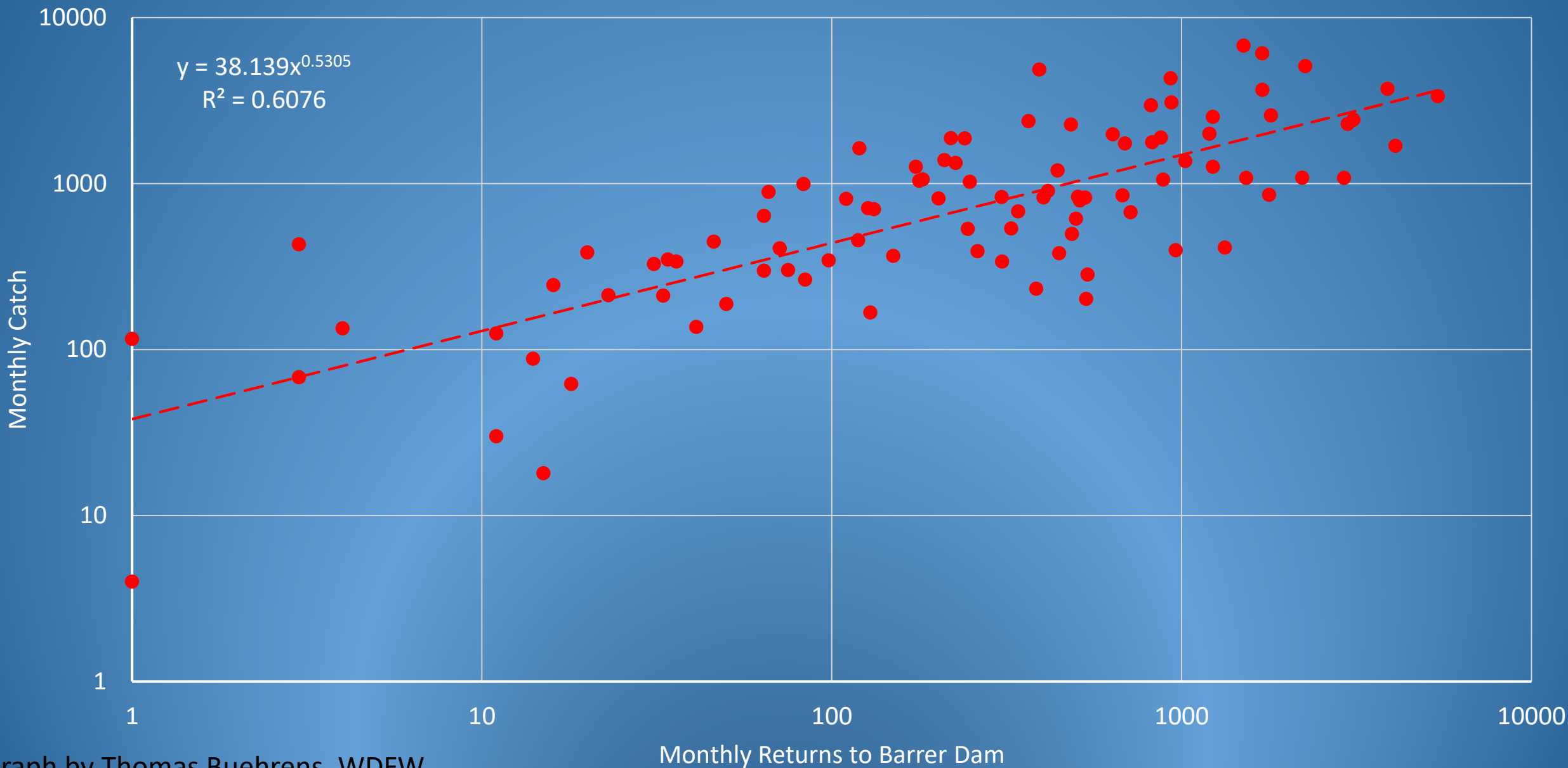
Cowlitz Winter Steelhead Harvest, 2000-2019



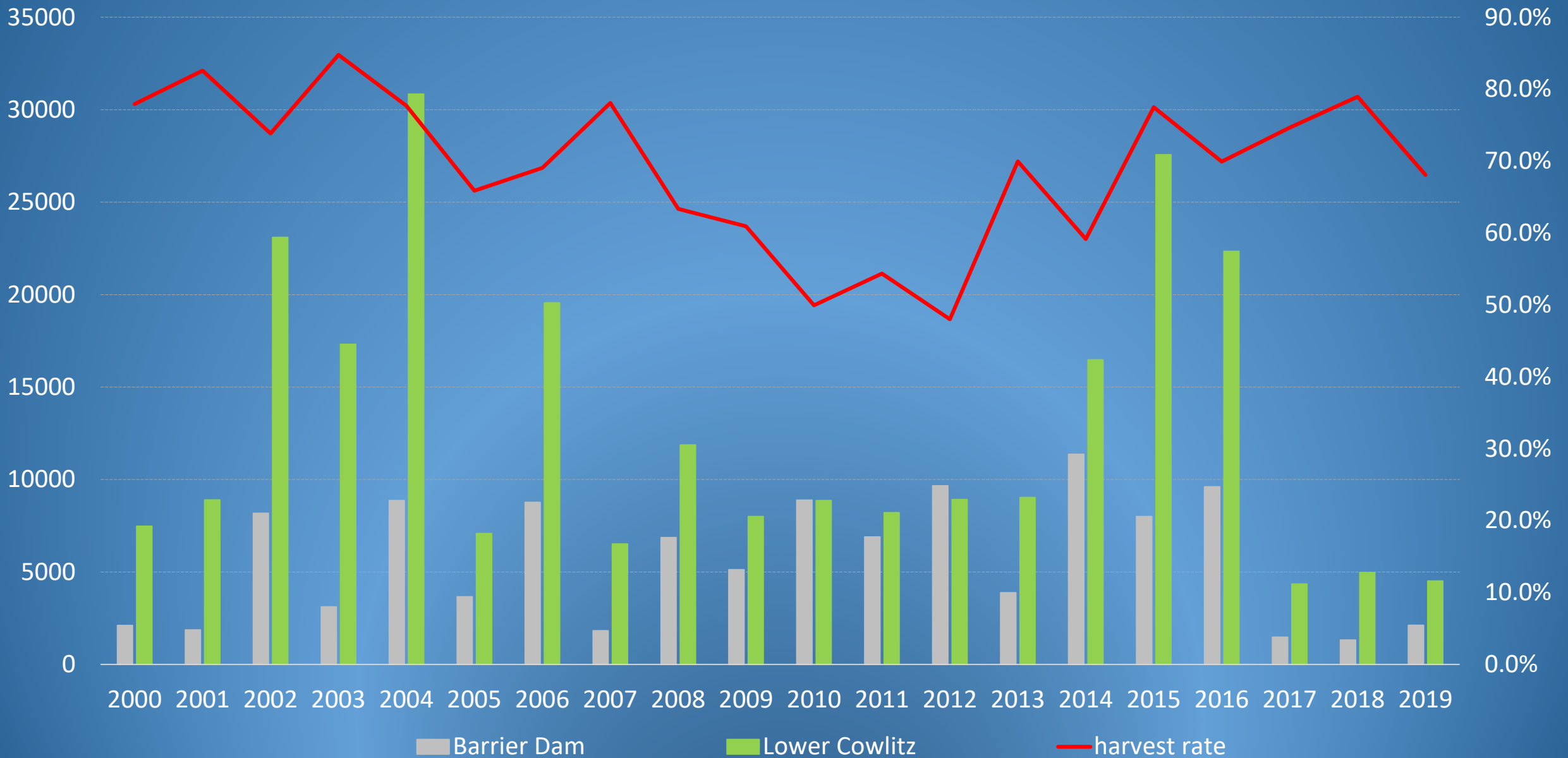
Cowlitz Winter Steelhead Harvest, 2013-2019



Total Monthly Lower Cowlitz Hatchery Steelhead Harvest, 2003-2019



Cowlitz Summer-Run Steelhead Harvest, 2000-2019



Summary

- Spring Chinook Harvest Rates
 - Lower Cowlitz = 41%, Upper Cowlitz = 9%
- Fall Chinook
 - Lower Cowlitz = 34%, Tilton = 9%
- Coho
 - Lower Cowlitz = 16%, Tilton = 16%, U Cowlitz = 11%
- Winter Steelhead
 - Lower Cowlitz = 68.7%
- Summer Steelhead
 - Lower Cowlitz = 69.2%

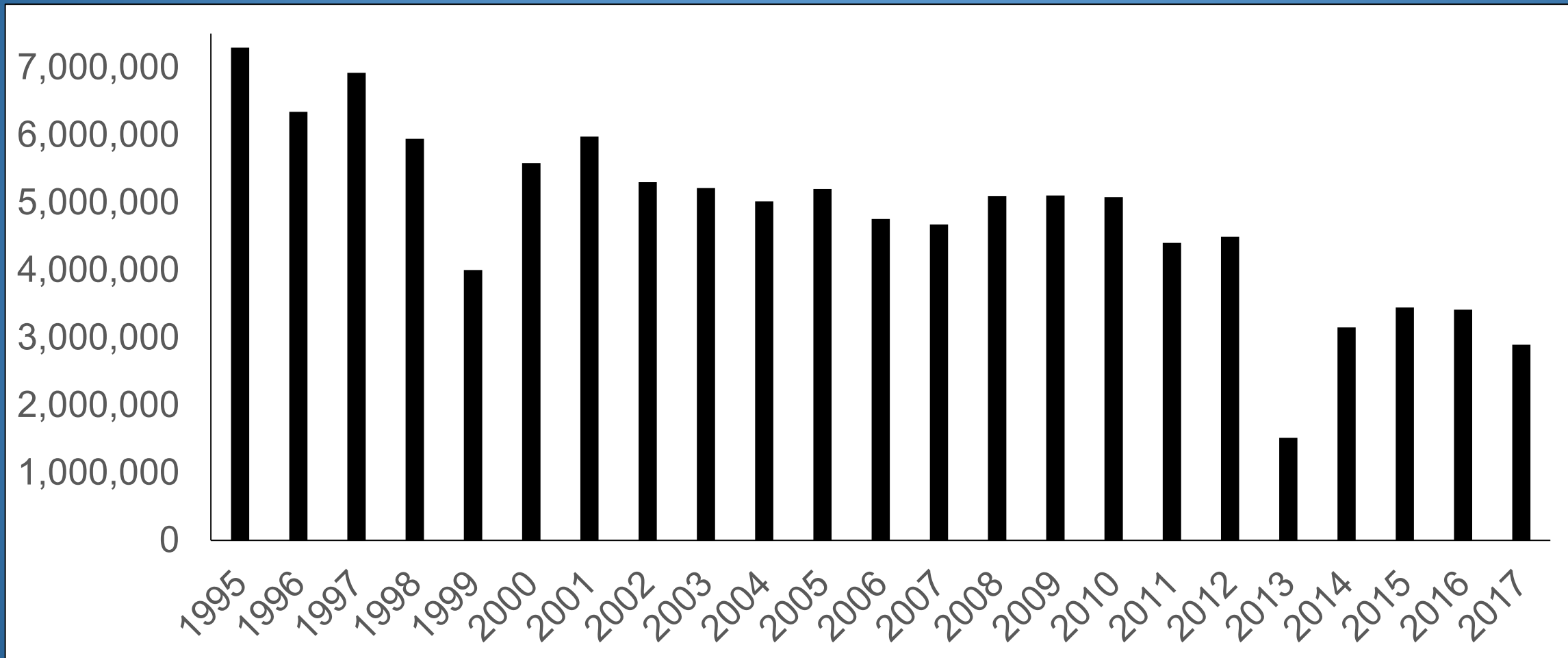
Acknowledgments

- WDFW: Eric Kraig, Tracy Scalici, Chris Gleizes, Tom Wadsworth
- Tacoma Power: Eric Shoblom, Jamie Murphy, Scott Gibson, Missy Baier

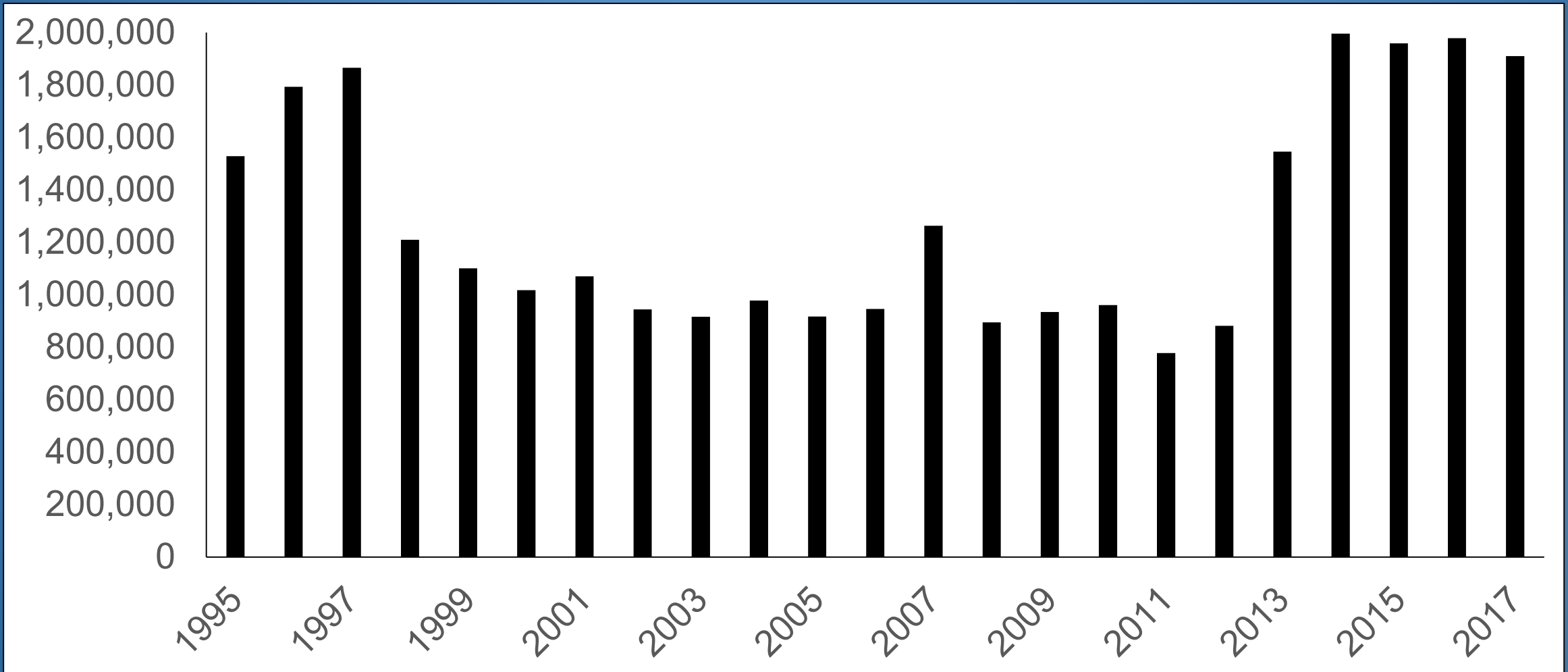
Questions?



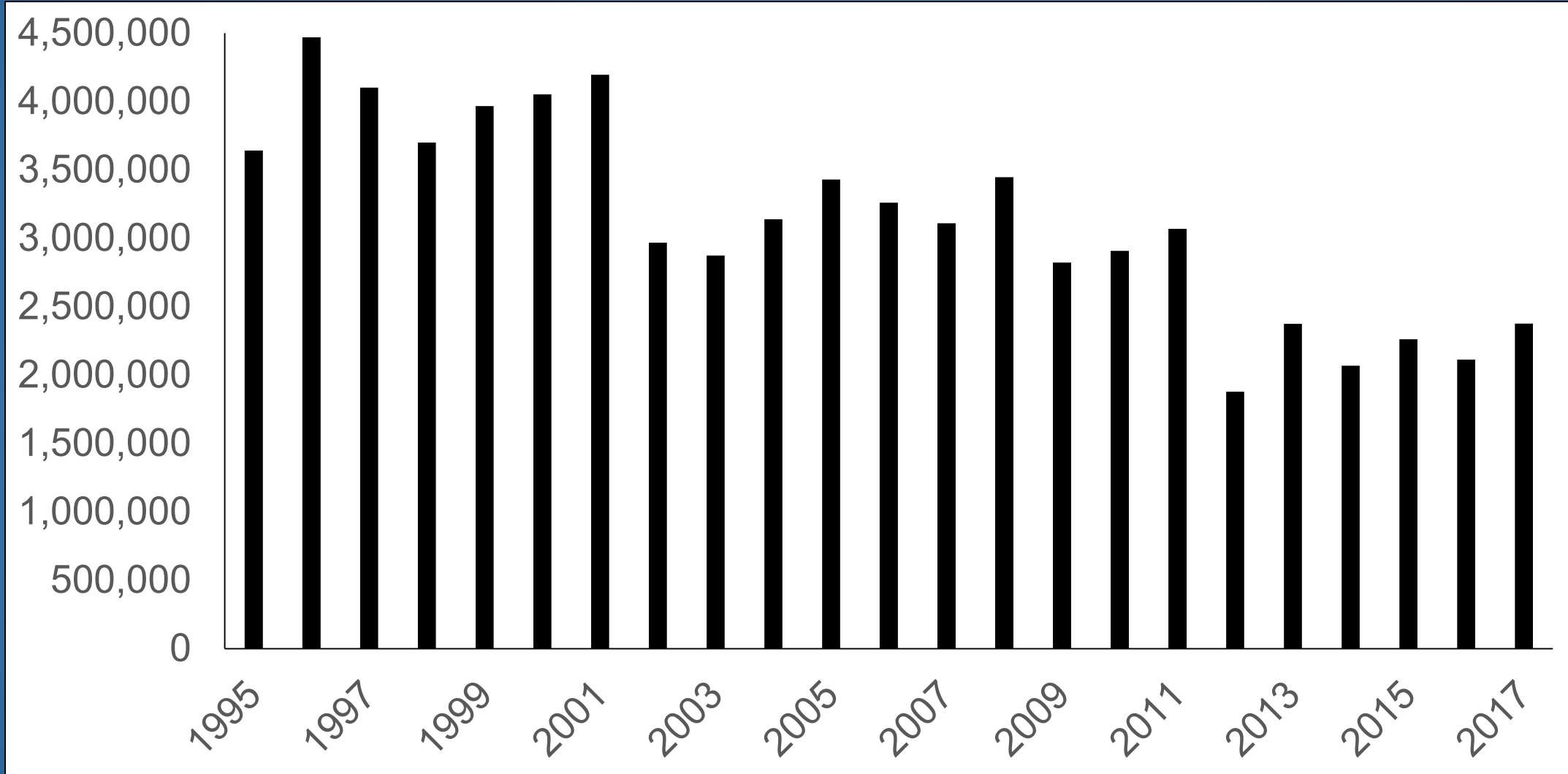
Fall Chinook Juvenile Hatchery Releases 1995-2017



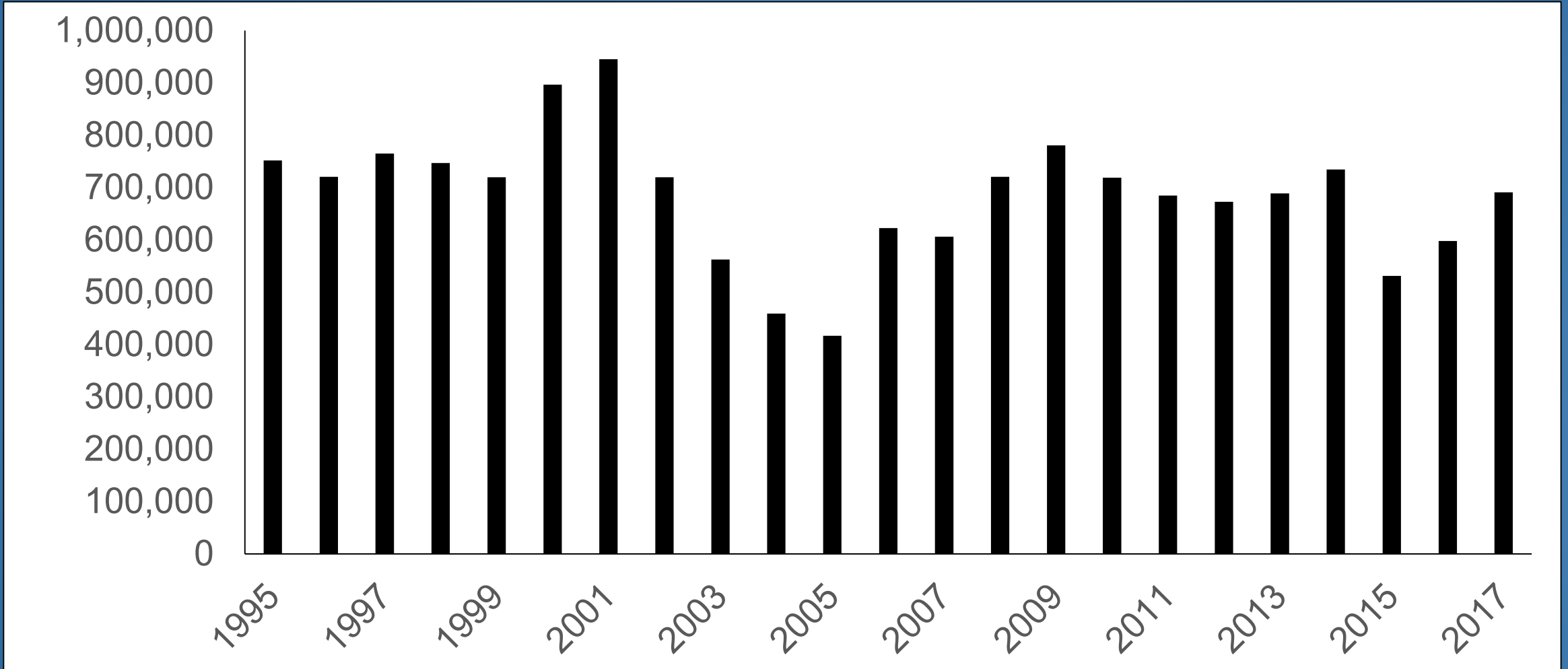
Spring Chinook Juvenile Hatchery Releases 1995-2017



Coho Hatchery Releases 1995-2017



Winter Steelhead Releases 1995-2017



Summer Steelhead Releases 1995-2017

