



# Genetic Stock Identification of Chatham/Icy Strait Sockeye: 2012-2014 Seine Harvest

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December 2, 2025



# Background of 2012-2014 Study

- Goal: *to provide genetic-based stock composition estimates of sockeye salmon harvested in Chatham/Icy Strait*
  - *Lynn Canal (Chilkat/Chilkoot)*
  - *Taku/Speel (Snettisham)*
  - *Chatham Strait*
- Concern about subsistence stocks in Chatham
- Three years of funding: 2012-2014
- Sockeye harvested in District 112/114 seine
  - D112-14/114-27 (Augusta/Whitestone)
  - D112-16 (Hawk Inlet)
- Final Report: [FDS 15-03](#)

# Fisheries Sampled

## Hawk Inlet

112-16

**2012:** n=376 (Test only)

**2013:** n=1,815 (Test & Common property)

**2014:** n=347 (Test only)

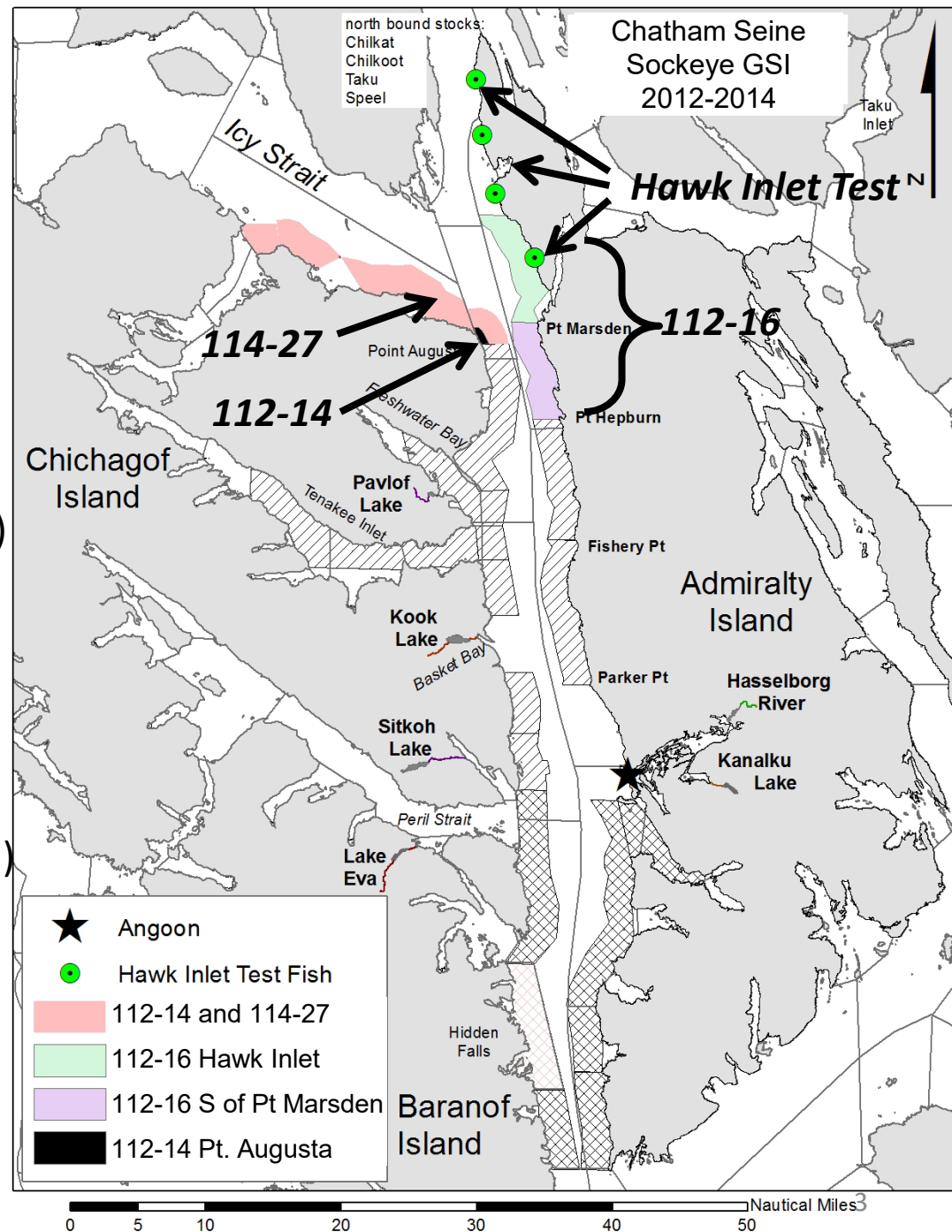
## Augusta/Whitestone

112-14/114-27

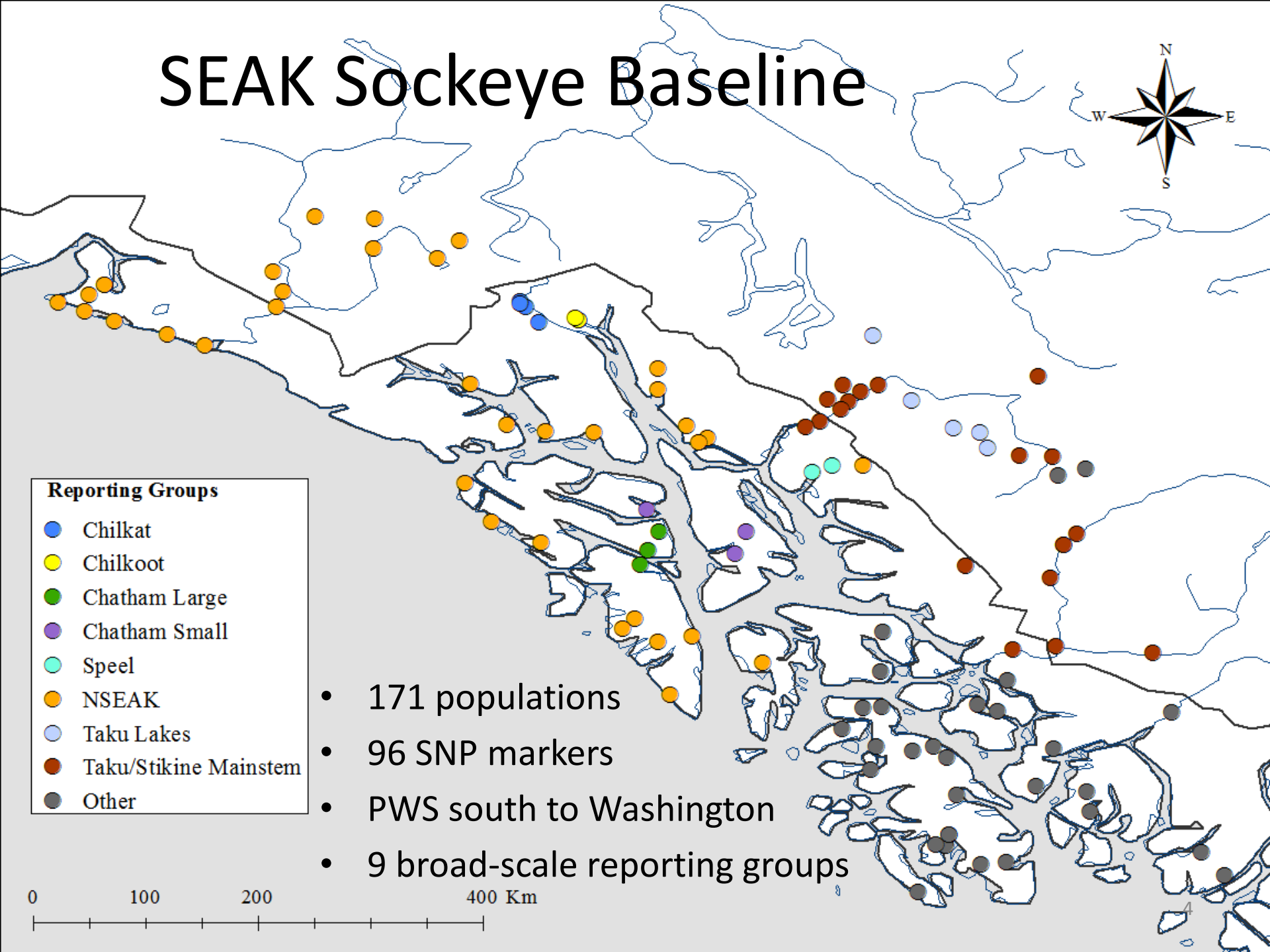
**2012:** n=1,180 (112-14 only)

**2013:** n=2,358 (112-14/114-27 combined)

**2014:** n=636 (112-14 only)



# SEAK Sockeye Baseline



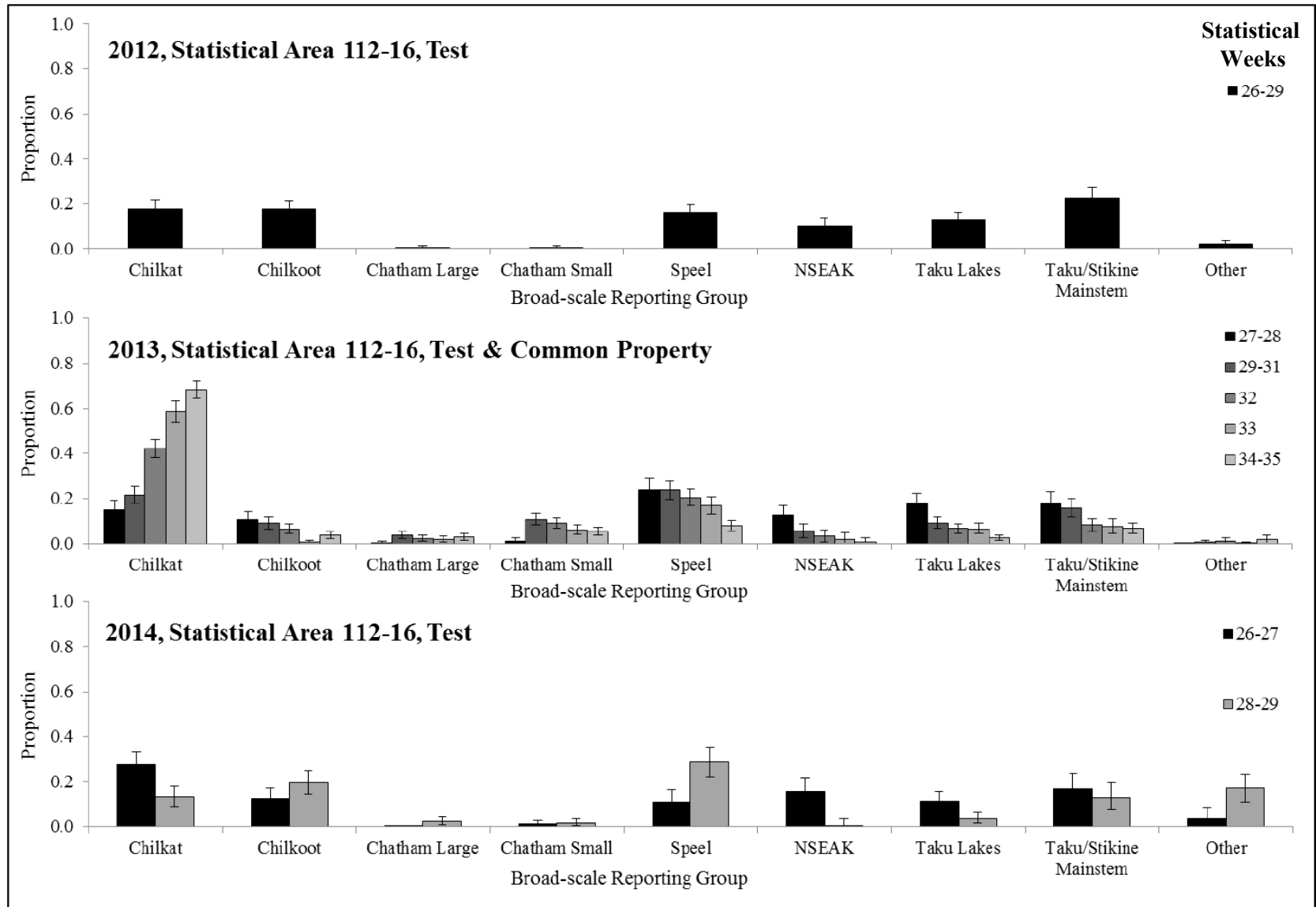
# Hawk Inlet

## Stat Area 112-16

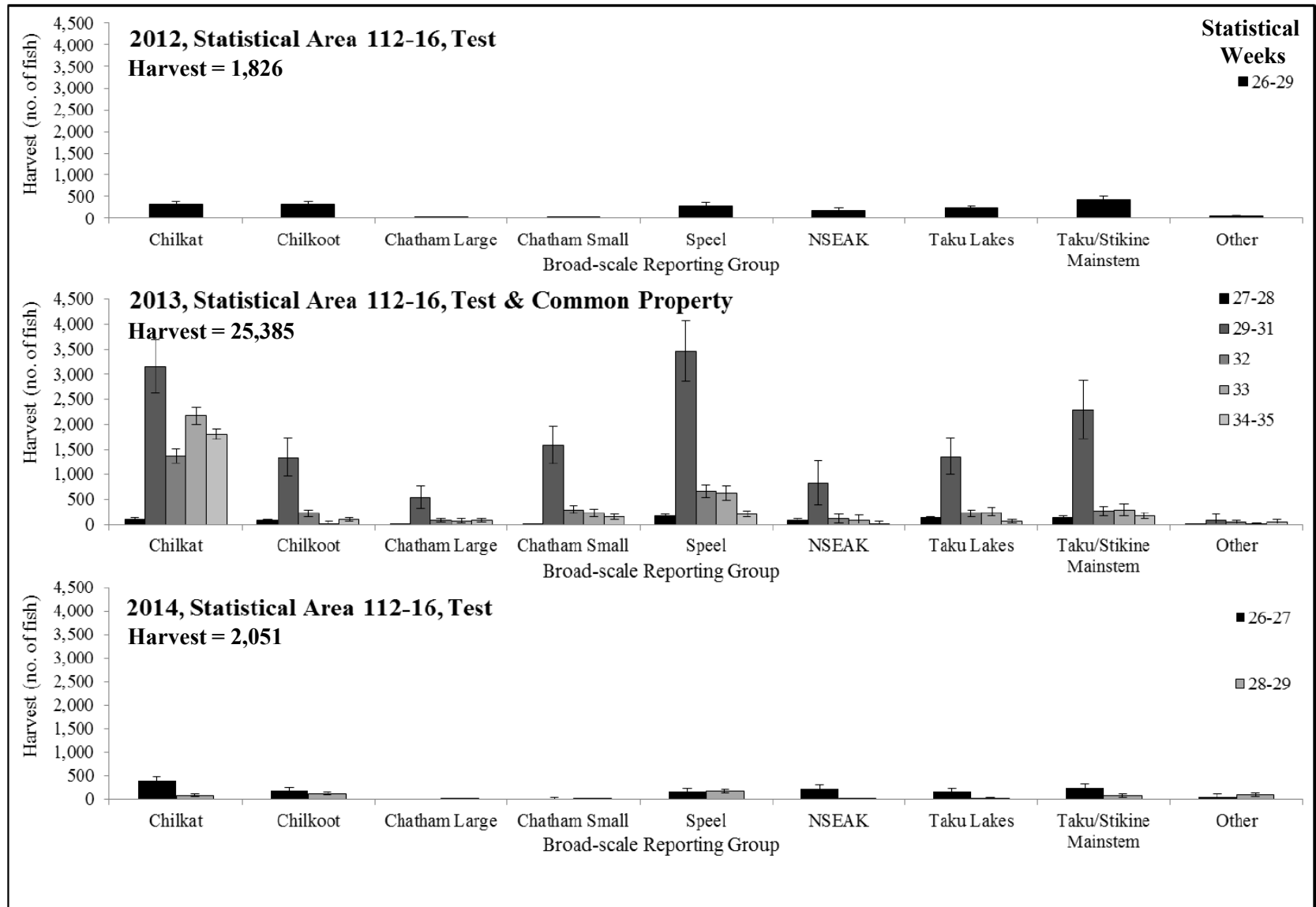
# Stock Composition



# Stock Composition

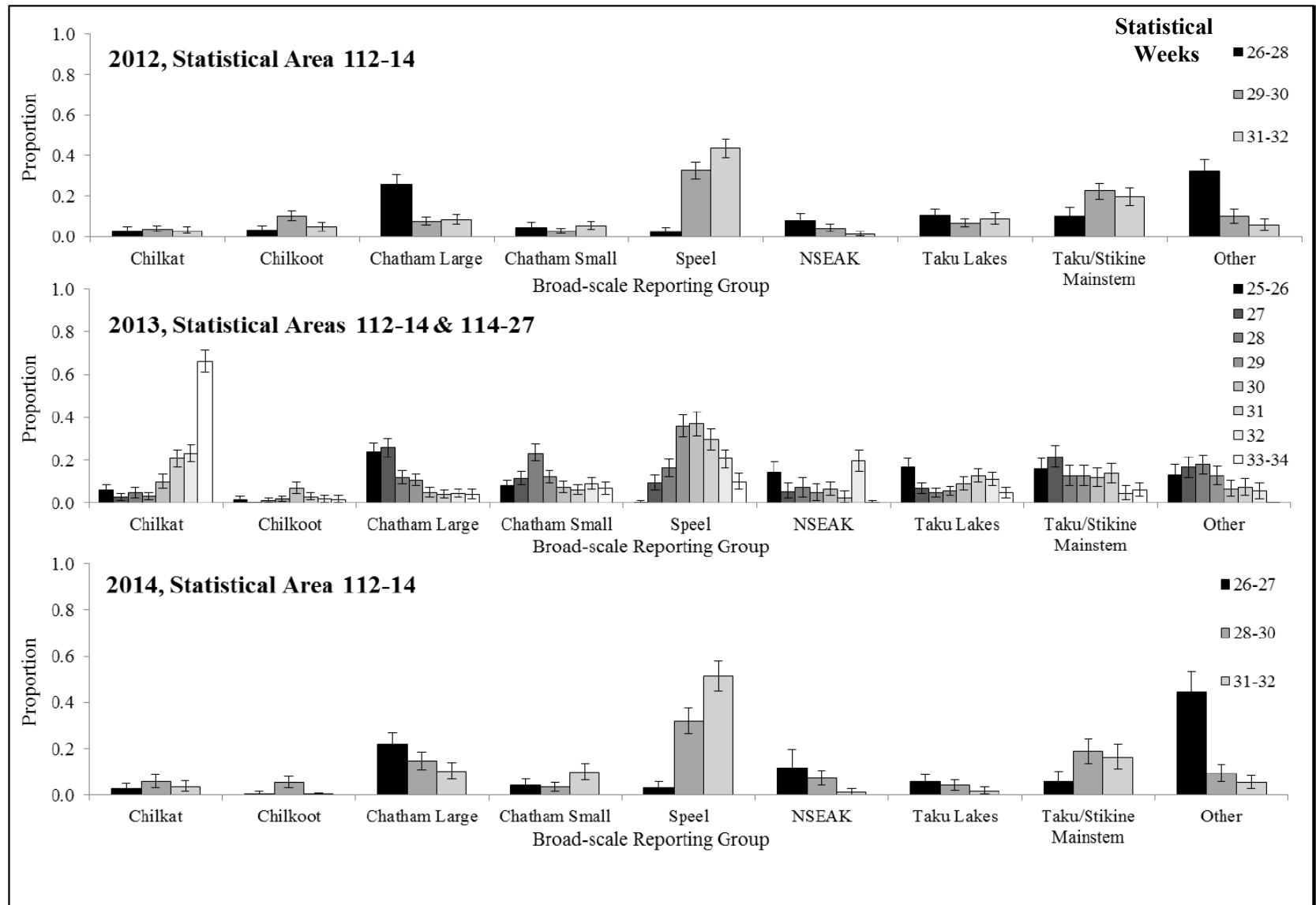


# Stock-Specific Harvest

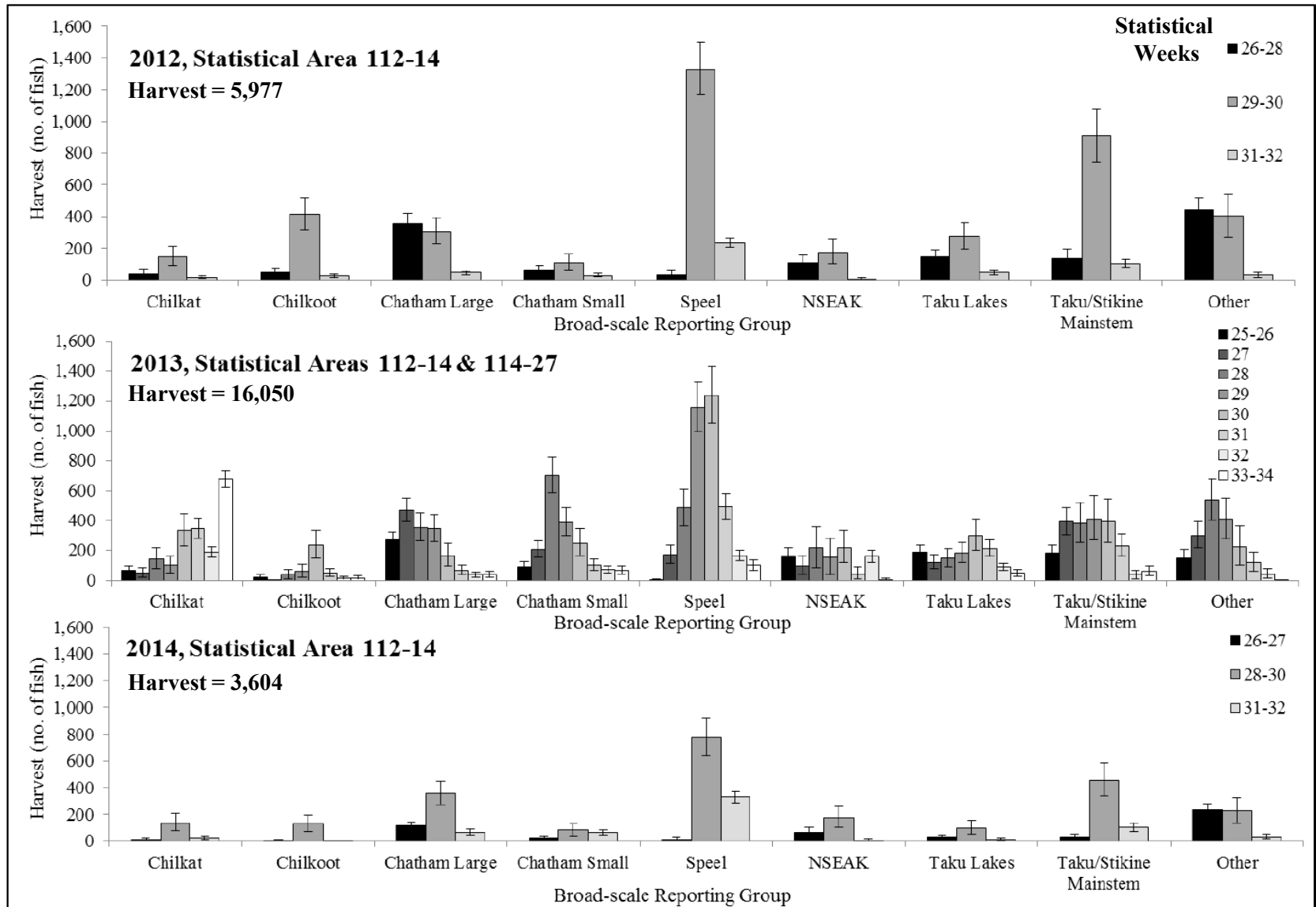


# Augusta/Whitestone Stat Areas 112-14/114-27

# Stock Composition



# Stock-Specific Harvest



# General Conclusions

- Hawk Inlet (112-16)
  - Mostly north bound stocks (Lynn Canal/Taku/Speel)
- Point Augusta/Whitestone (112-14/114-27)
  - Mixed north and south bound stocks
- Chilkoot
  - 0-20% in 112-16, highest before SW32
  - 0-10% in 112-14/114-27
- Chilkat
  - Increased over time
- Caution applying proportions to other years
  - Only 1 odd-year (2013)

# Project Costs

- ~\$250K per year for 2012-2014 study
- Estimate \$155K for inseason genetics/year
  - 4 weeks (SW 29-32)
  - 2 areas Hawk Inlet & Augusta/Whitestone
  - Requires tender rides/observers to get samples
  - No current funding identified

# Questions?

For more information:

<https://www.adfg.alaska.gov/index.cfm?adfg=fishinggeneconservationlab.main>

Or click through to *ADF&G -> Fishing -> Research -> Gene Conservation Lab*

Or feel free to email us! [kyle.shedd@alaska.gov](mailto:kyle.shedd@alaska.gov) or [erika.king@alaska.gov](mailto:erika.king@alaska.gov)