

# South Alaska Peninsula and Chignik Commercial Fisheries Chum and King Salmon Harvest Genetic Stock Composition Sampling 2022–2025

A Report to the Alaska Board of Fisheries

February 18, 2026

Michelle Wattum

Oral Report RC 3; Tab 8



# Overview

Background

Objectives

Study Area and Design

- Chum – South Peninsula
- King – South Peninsula
- King – Chignik

Sample Determination

Sample Collection

Results

- Chum – South Peninsula
- King – South Peninsula
- King – Chignik



# Study Background

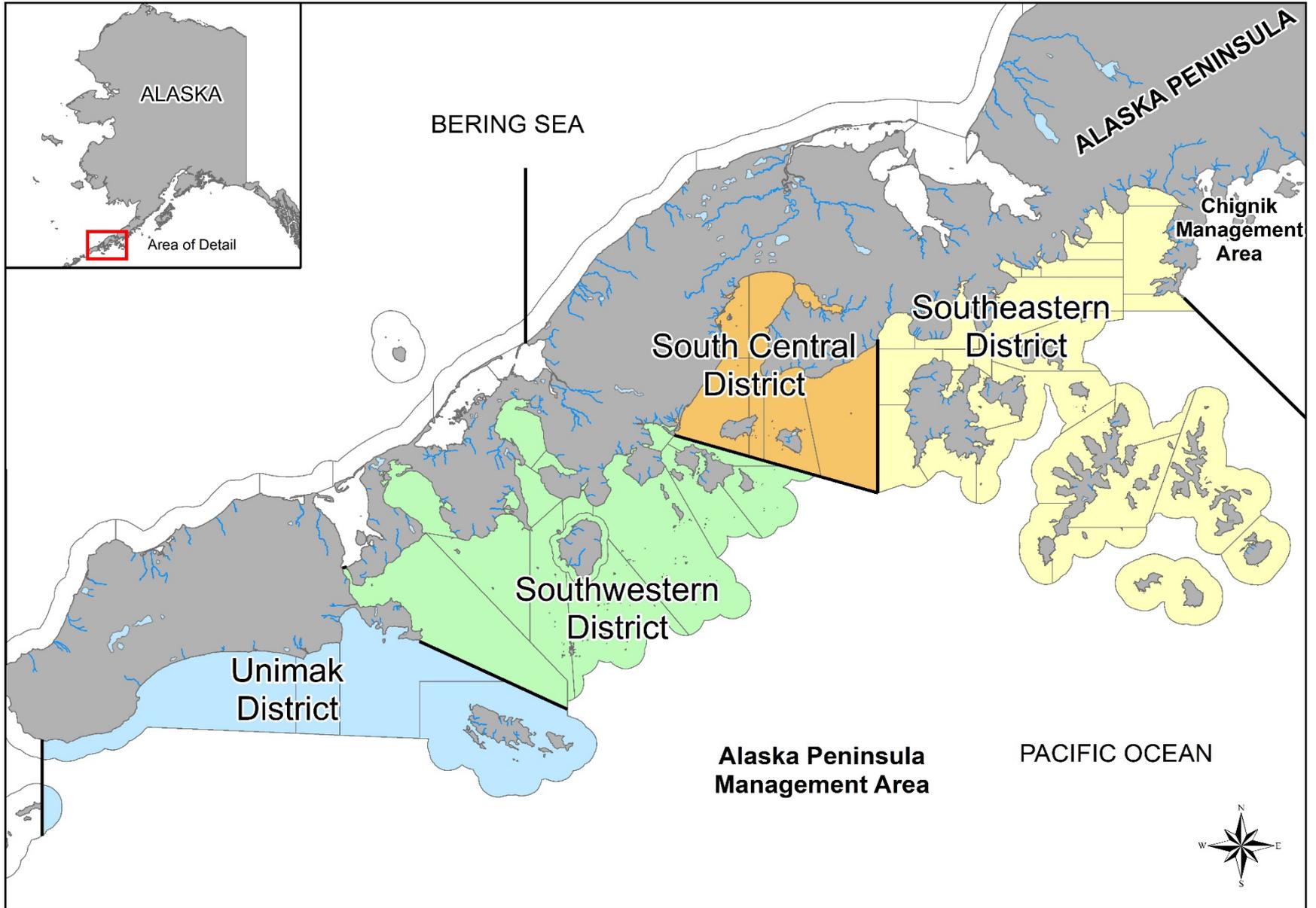
Area - Species	2022	2023	2024	2025
 South Peninsula - Chum	✓	✓	✓	✓
 South Peninsula - King			Post-June Tissue Only Opportunistic	✓
 Chignik - King				

# Objectives

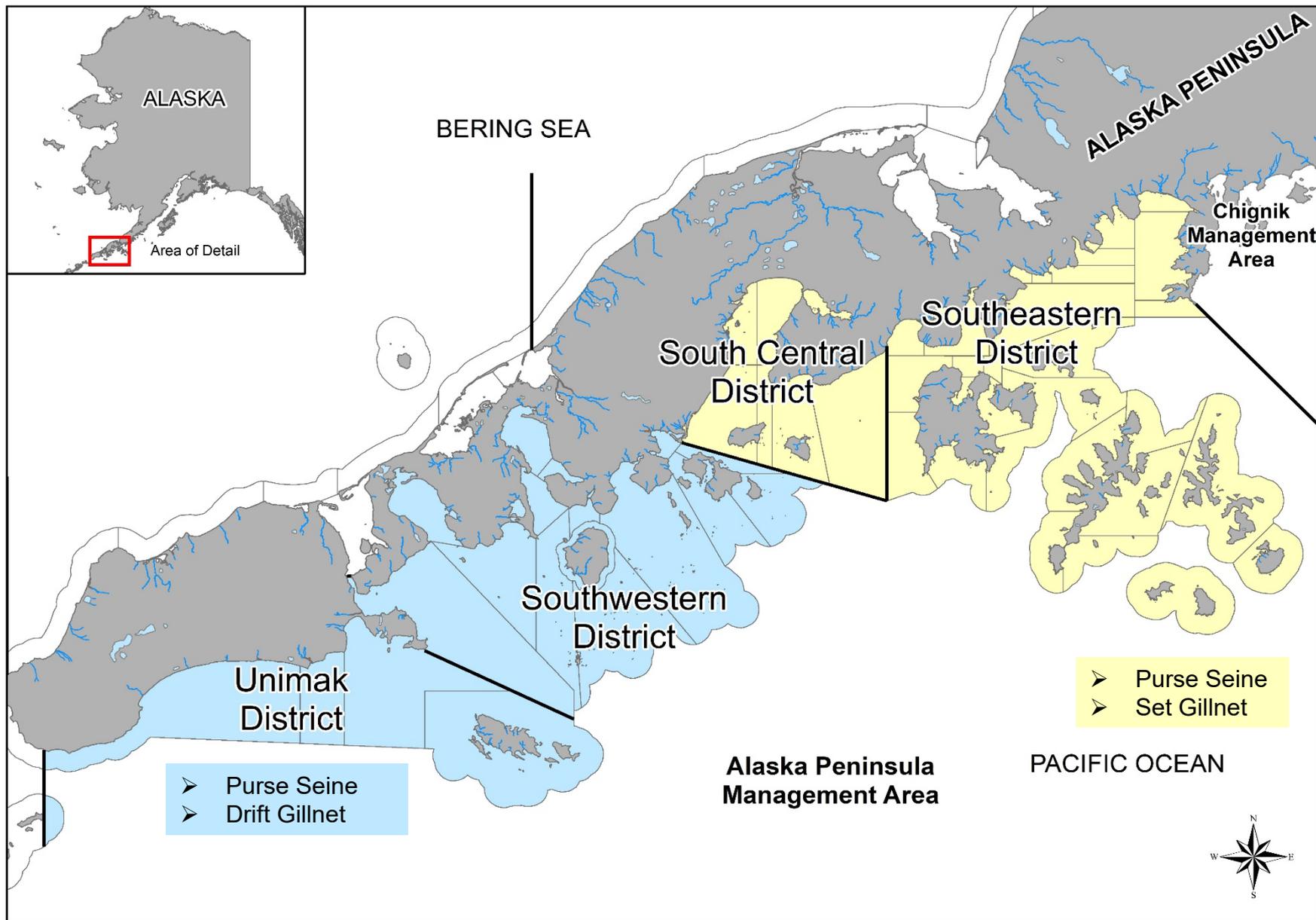
- Sample tissue (pelvic fin)
- Estimate age and length
- Genotype
- Estimate stock composition



# South Alaska Peninsula Management Area Districts



# South Alaska Peninsula Study Geographical Areas



# Study Design – South Peninsula Chum

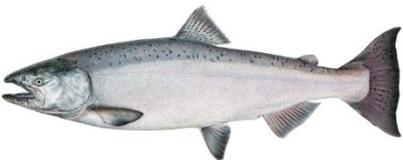
## Geographical Areas (Districts)

		<b>Southeastern and South Central</b>	<b>Unimak and Southwestern</b>
<b>Seine</b>	<b>June</b>	4 x 380	4 x 380
	<b>July</b>	3 x 380	3 x 380
	<b>August</b>	2 x 380	2 x 380
<b>Gillnet</b>	<b>June</b>	1 x 380	4 x 380
	<b>July</b>	3 x 380	3 x 380
	<b>August</b>	1 x 380	1 x 380

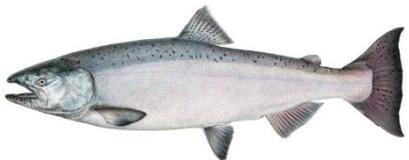
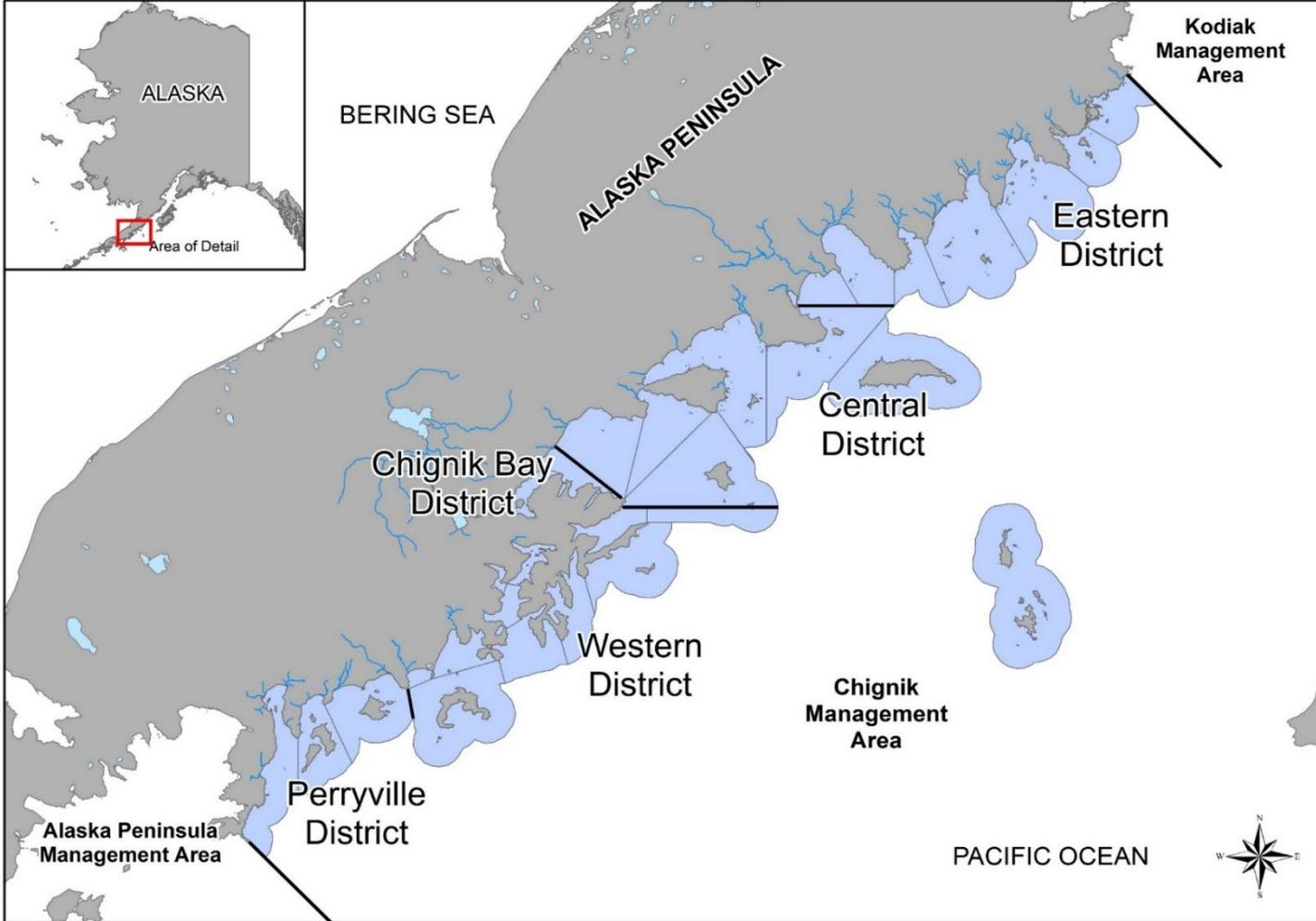


# Study Design – South Peninsula Kings

- **2024** (opportunistic)
  - Southeastern and South Central Districts Seine post-June
  - Unimak and Southwestern Districts Seine post-June
  - Gillnet post-June
- **2025**
  - Southeastern and South Central Districts Seine - June and post-June
  - Unimak and Southwestern Districts Seine - June and post-June
  - Gillnet



# Chignik Kings



- Opportunistic Sampling in 2025

# Sample Determination

- Coordinate with processors to locate delivery
- Statistical areas and gear types confirmed
- Harvest and sampling dates recorded



# Sample Collection

- Pelvic fin (genetics)



- Scales (age)

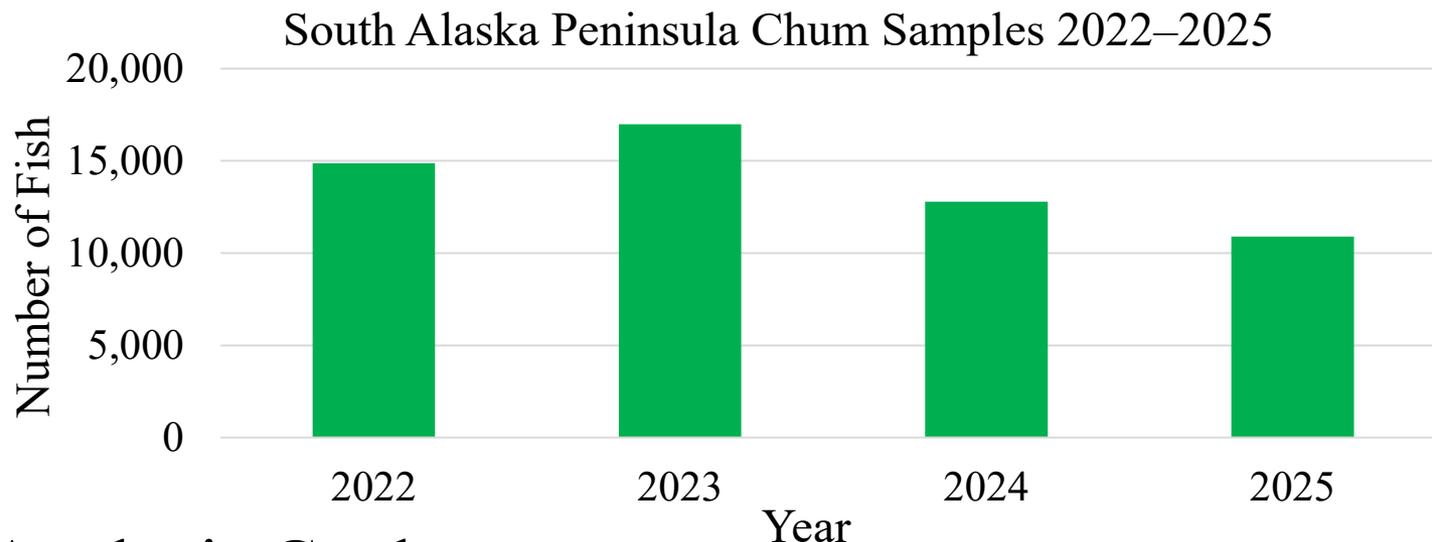


- Length (mm)



# Results – Chum Collection

- 55,535 samples



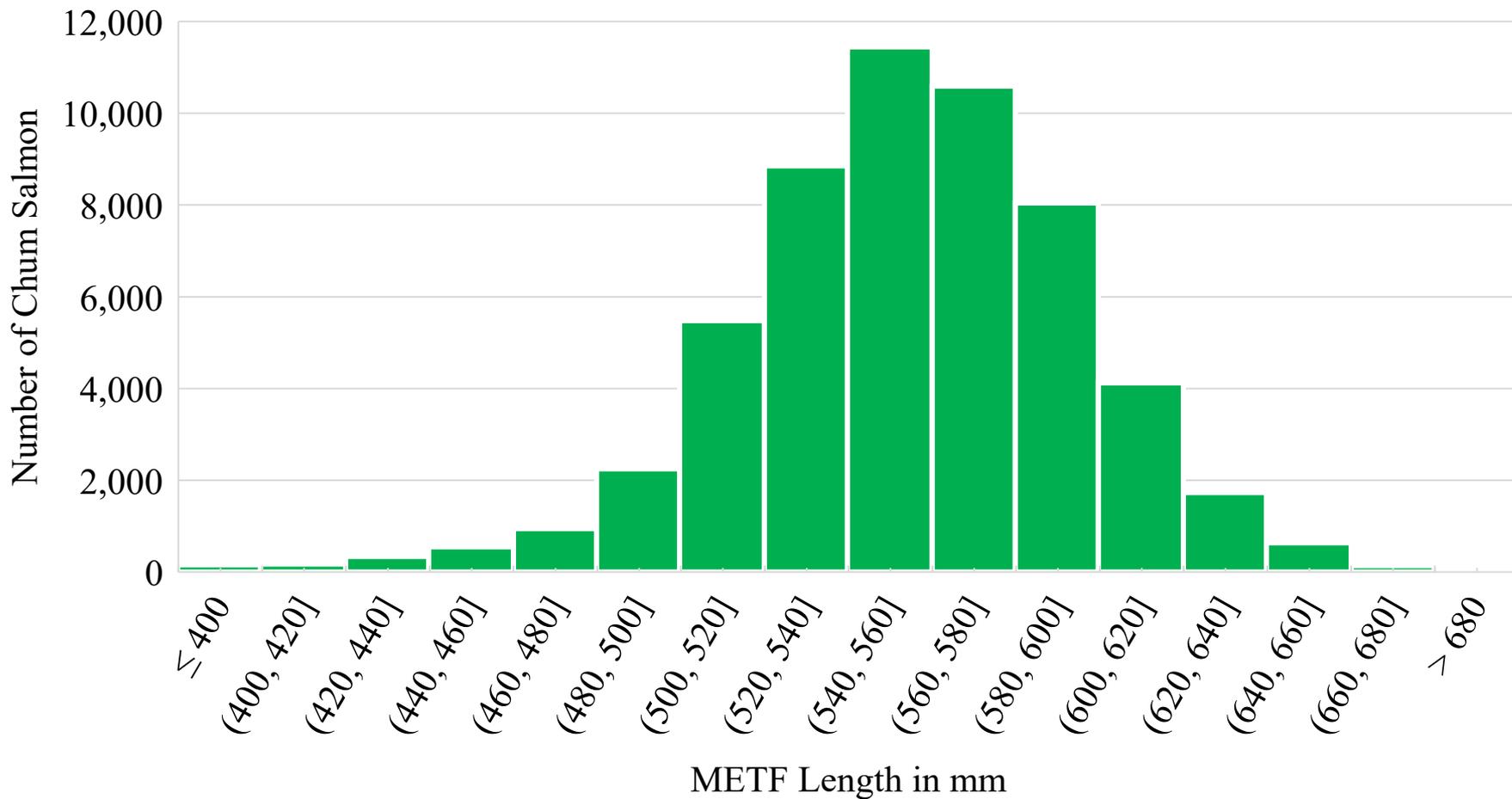
- Analysis Goals

	Number of Strata	Minimum Sample Size Met (100 fish)	Targeted goals Met or Exceeded (380 Fish)
2022	28	28/28	20/28
2023	31	31/31	23/31
2024	25	24/25	22/25



# Results – Chum Length

South Alaska Peninsula Chum Salmon Length Histogram (2022–2025)



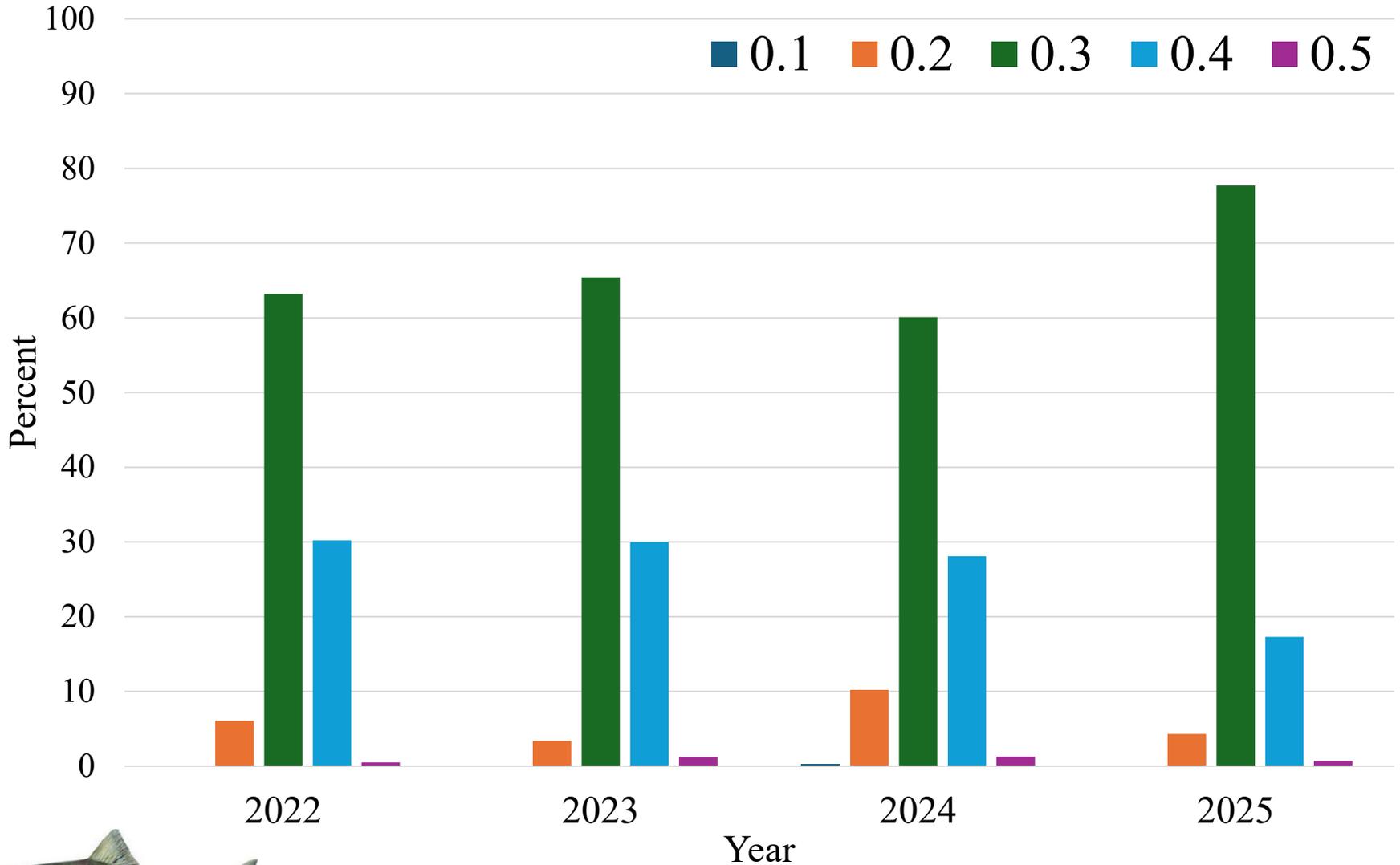
Length (METF):

- Range: 299 to 798 mm
- Mean: 555 mm



# Results – Chum Age

South Peninsula Chum Salmon Ages 2022–2025



# Results – King Collection

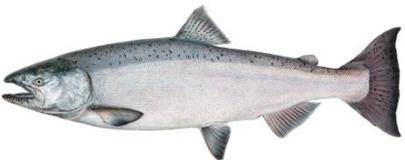
- 5,617 samples

2024

- South Alaska Peninsula – 1,761 – Post-June (tissue)
  - Southeastern and South Central Districts Seine – 1,392
  - Unimak and Southwestern Districts Seine – 293
  - Gillnet – 76

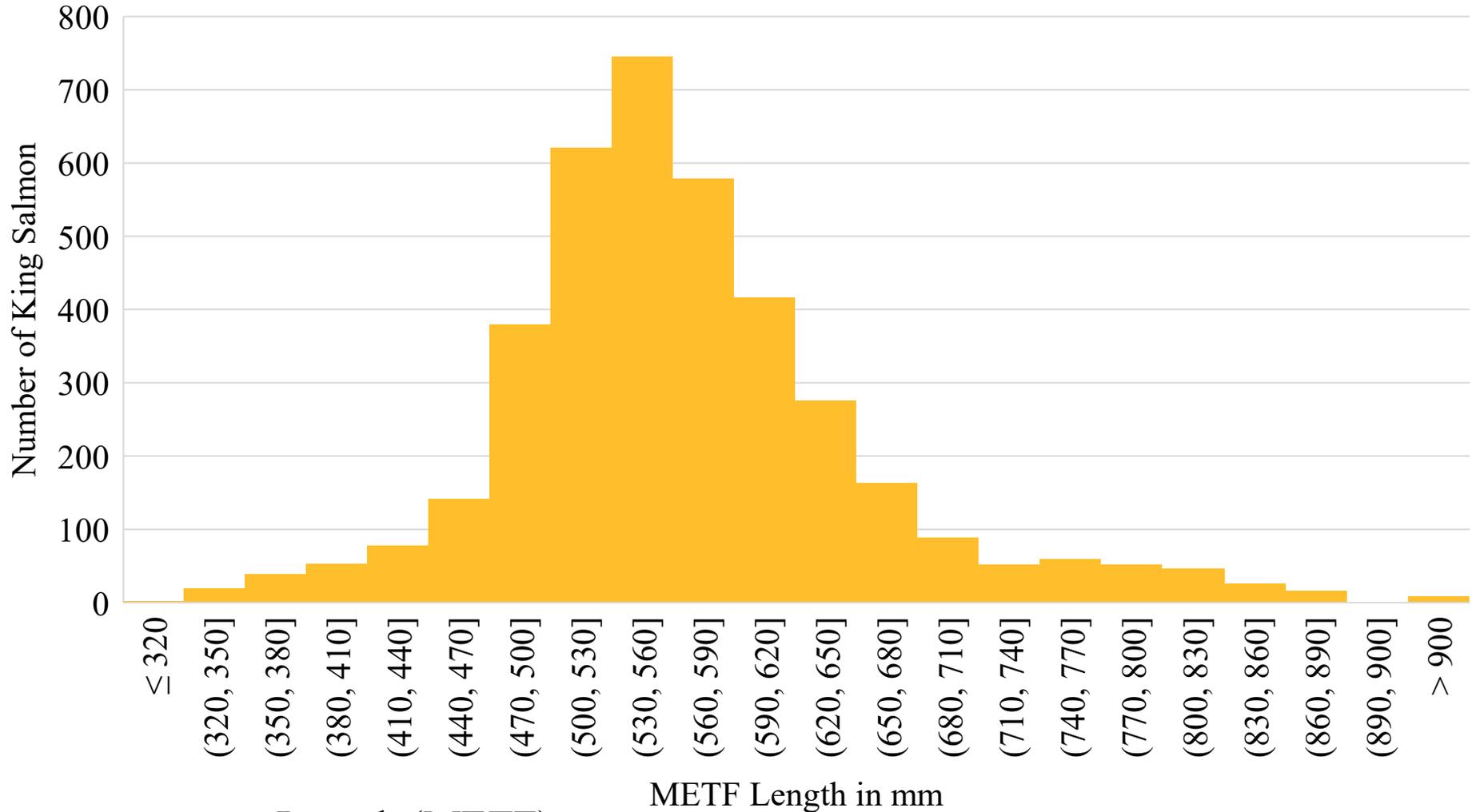
2025

- South Alaska Peninsula – 3,211
  - Southeastern and South Central Districts June Seine – 692
  - Unimak and Southwestern Districts June Seine – 350
  - Southeastern and South Central Districts post-June Seine – 1,792
  - Unimak and Southwestern Districts post-June Seine – 227
  - Gillnet – 150
- Chignik – 645



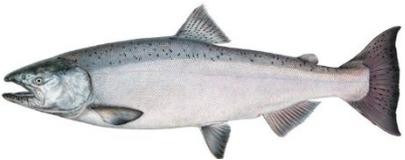
# Results – King Length

King Salmon Length Histogram 2025 Samples



Length (METF):

- Range: 302 to 1,051 mm
- Mean: 566 mm



# Results – Summary

## Chum Salmon



- 2022–2025
- 55,535 Samples
- Average Length – 555 mm
- Predominant Age – 0.3 (66%)

## King Salmon



- 2024–2025
- 5,617 Samples
- Average Length – 566 mm

# Acknowledgements

ADF&G Peninsula Management Staff

ADF&G Research Staff: Molly McFarland, Mekia Bushell, Brooke Harvey, Daryl Lee, Chip Schoff, Kyle Wondra, Kalynn Workman, Steve Schrof, Heather Dorsey, Hannah Atsma, Lauren Cochenour, Katherine Cabanillas, Isabella Kang, Cassidy Foster, Serenity Bushell, Elisabeth Fox, MaryBeth Loewen, and Birch Foster

Gene Conservation Lab Staff

Peter Pan, Silver Bay, and Trident Seafood Corporations

