



Subsistence Overview

Presentation to the Alaska Board of Fisheries
Kodiak, Alaska - January 9, 2024



Lauren Sill and Jackie Keating
RC 3, Tab 2



Our mission is to scientifically gather, quantify, evaluate, and report information about customary and traditional uses of Alaska's fish and wildlife resources. AS 16.05.094




Photos: Fishing in Larsen Bay; Smoked Salmon in Ouzinkie; Life history mapping in Kodiak




Types of Research Projects

- Comprehensive household harvest surveys
- Harvest monitoring
- Local and Traditional Knowledge
- Special topic research

 Most projects are partnerships

 Goal: “holistic” understanding of mixed cash-subsistence economy, and subsistence ways of life

 **All research is voluntary, data are anonymous**



Ethnographic mapping interviews with a Kodiak resident, 2023



Alaska Department of Fish and Game Active Online Subsistence Surveys

Community Subsistence Information System

This dashboard is used to disseminate subsistence harvest data and technical reports for a community.

For summary information about the subsistence harvests, population, demography, and economy of Alaska's rural communities, please use the Subsistence Community Profile Dashboard.

Explore

© ADF&G/Sara Germein

Subsistence Community Profile Dashboard

Comprehensive source for summary information about the subsistence harvests, population, demography, economy and geographic location of Alaska's rural communities.

User Guide Explore

Photo © ADF&G/Jim Dau

Subsistence Fisheries Data Dashboard

This dashboard provides access to Alaska's subsistence and personal use salmon fisheries data based upon subsistence and personal use permit data and harvest assessment surveys.

User Guide Explore

Photo © ADF&G

<http://www.adfg.alaska.gov/sb/CSIS/>

Technical Paper No. 477

Harvest and Use of Wild Resources in Akhiok, Old Harbor, and Larsen Bay, 2018

by
Lauren A. Sill,
Jacqueline M. Keating,
and
Gayle P. Neufeld

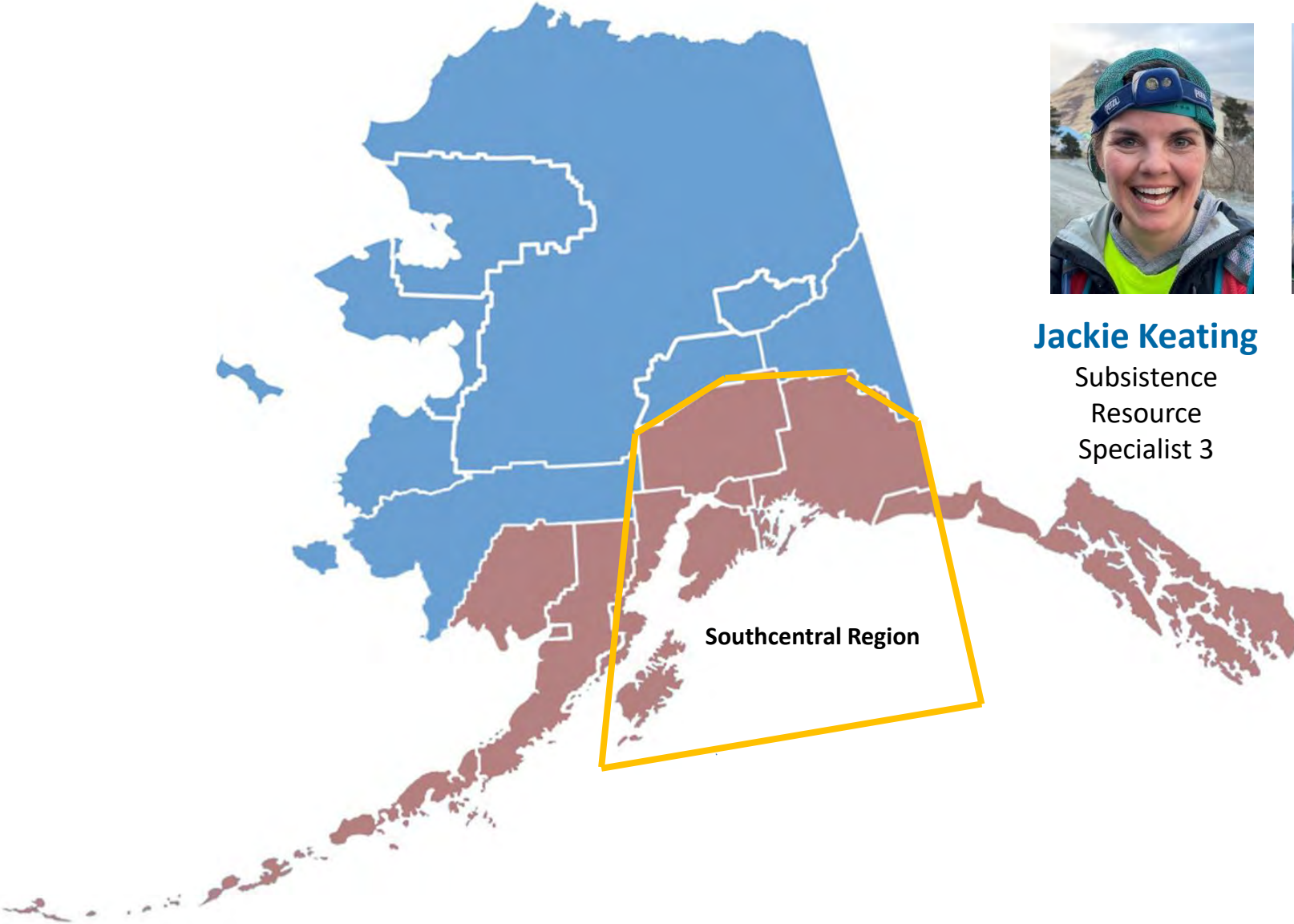
June 2021

Alaska Department of Fish and Game Division of Subsistence

ALASKA
DEPARTMENT OF FISH AND GAME

<http://www.adfg.alaska.gov/sf/publications/>



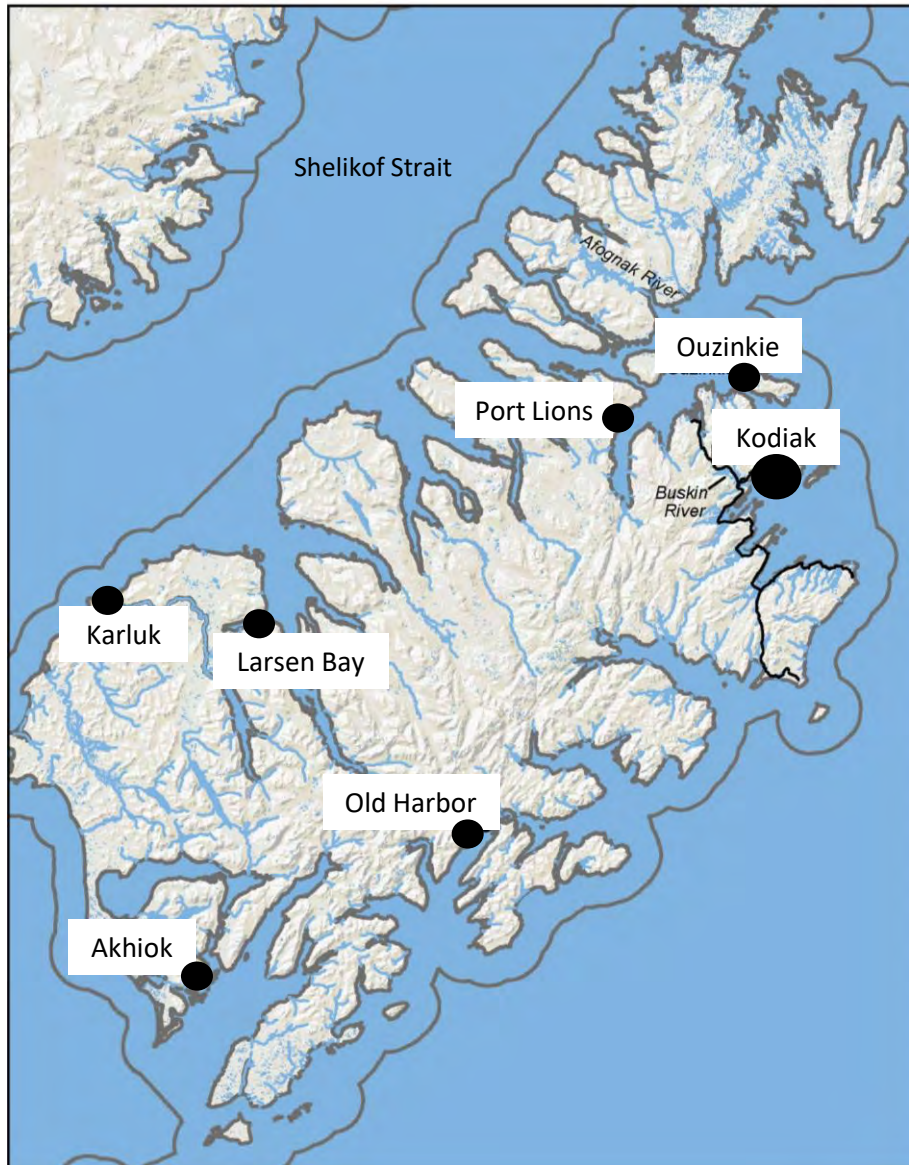


Jackie Keating
Subsistence
Resource
Specialist 3

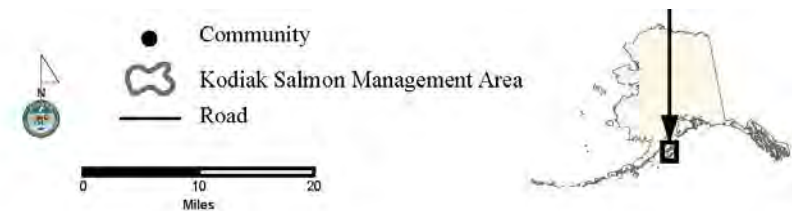


Christian Woodard
Subsistence
Resource
Specialist 2





- Home to the largest community outside of a nonsubsistence area
- C&T finding for salmon and finfish other than salmon, except steelhead and rainbow trout
- ANS findings for salmon, rockfish, lingcod, and other finfish combined

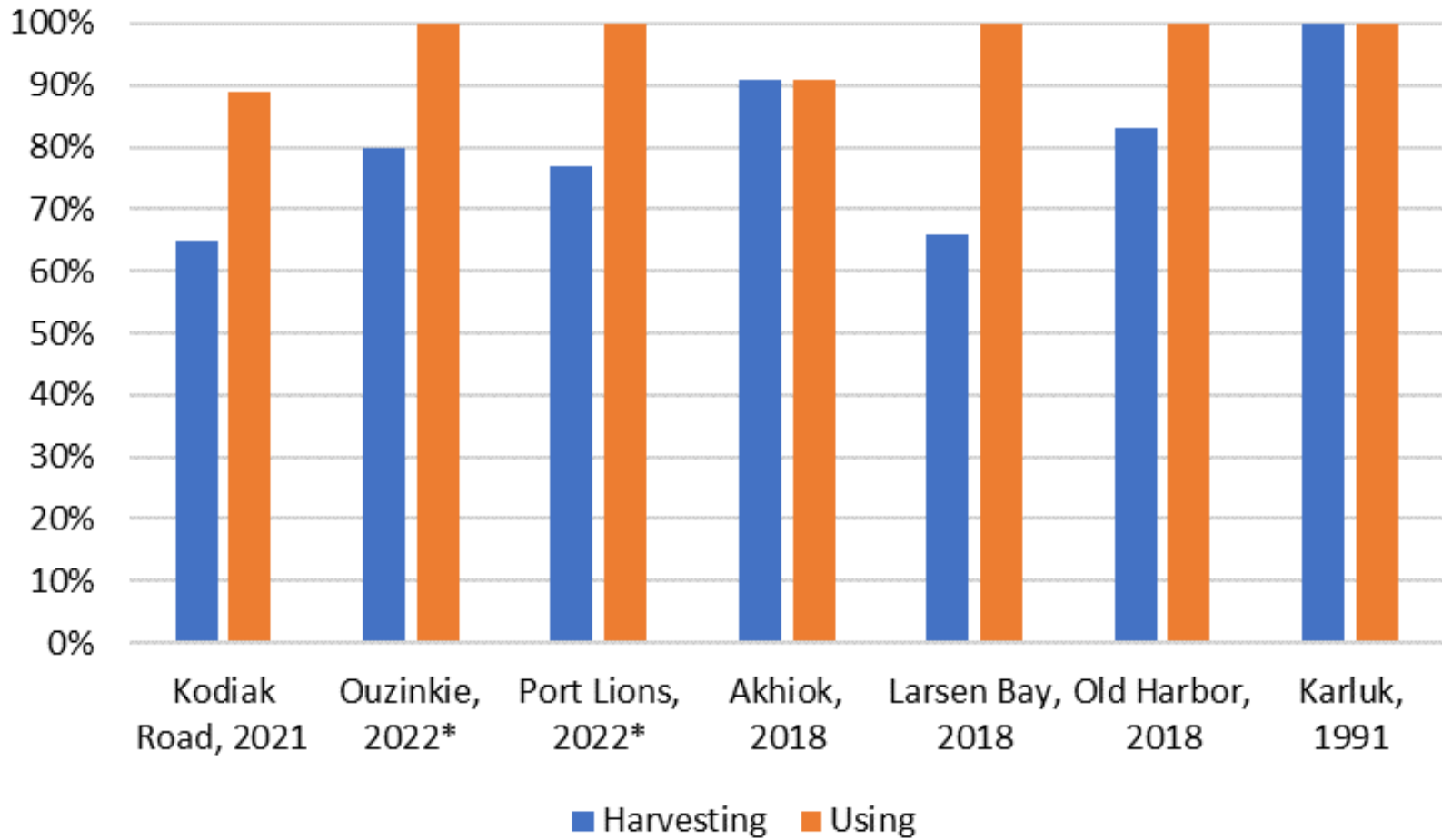


- Salmon have been a primary food source for Kodiak residents for thousands of years
- Rural Kodiak residents primarily learn to fish from family; road system residents learn from friends
- Most households fish with at least one other household
- Social networks create access to salmon in all Kodiak communities
- Salmon for home use are harvested with a variety of methods
- Salmon are frozen, smoked, dried, and jarred for use all year

Salmon harvest in Old Harbor



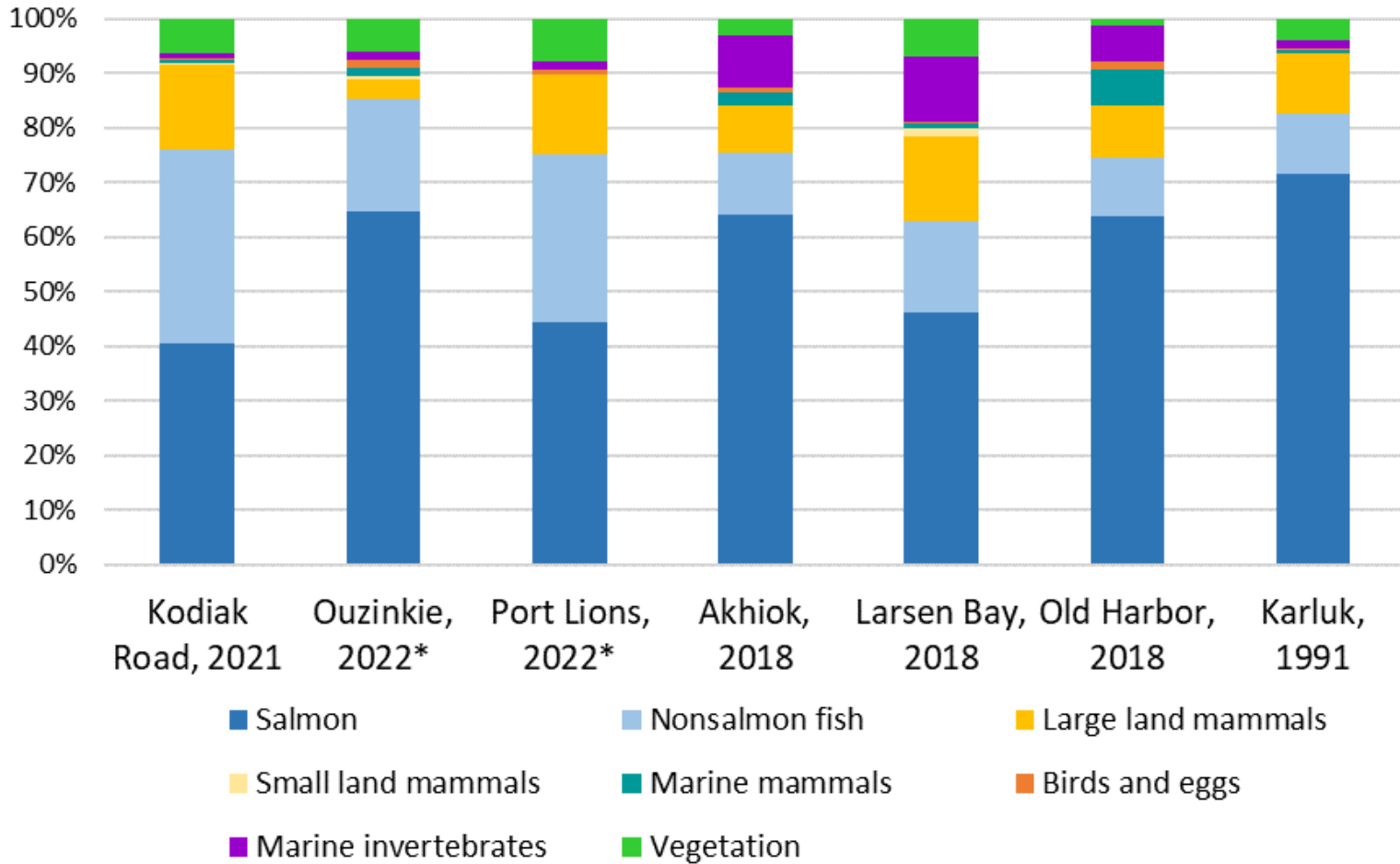
Percentage of Households Harvesting Fish



* Indicates preliminary data that have not yet been through community review

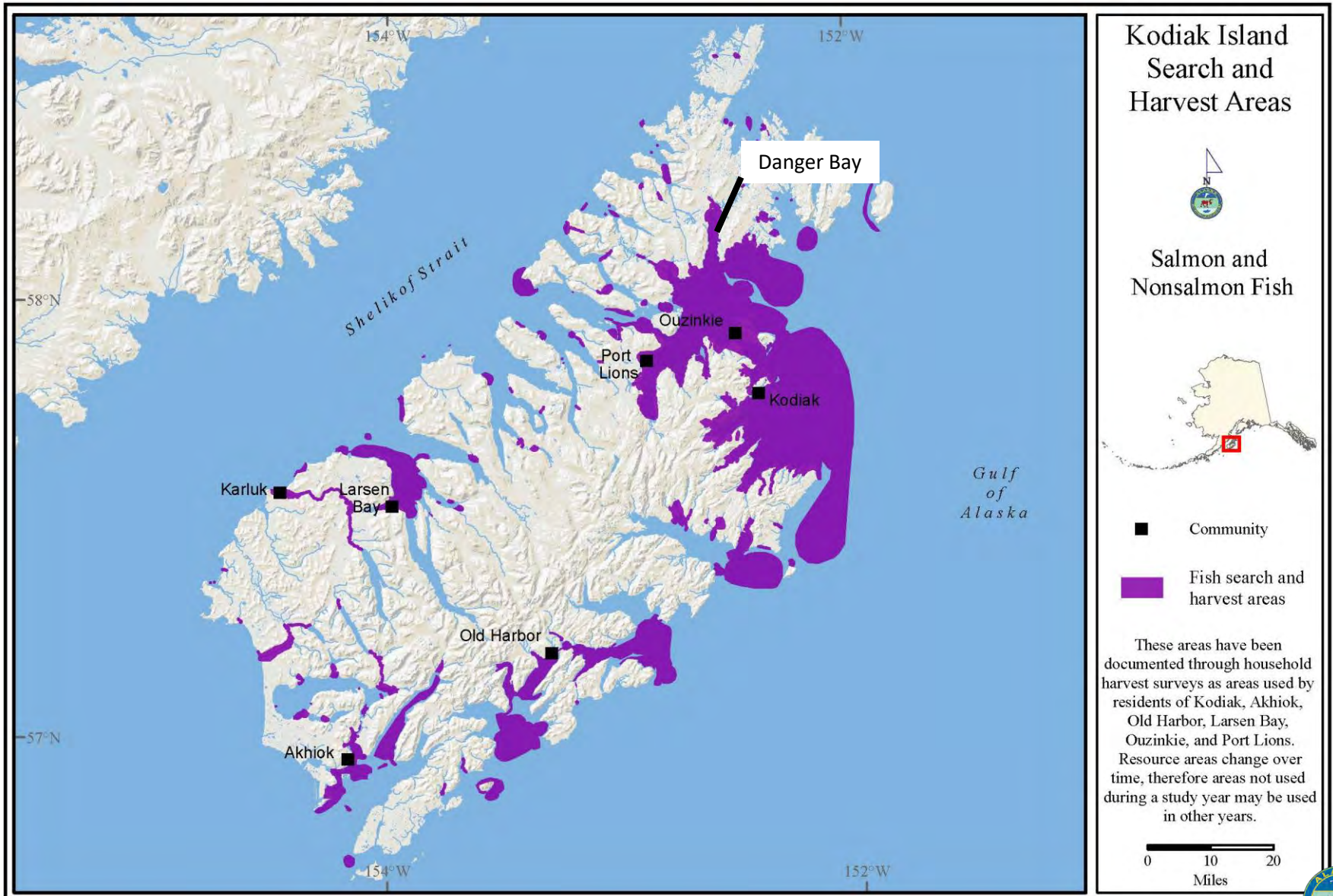


Harvest Composition for Kodiak Area Communities




* Indicates preliminary data that have not yet been through community review





- Managed by DCF, Kodiak Office
- One single permit for salmon, herring, and crab
- Mailed to households that returned a permit last year; can be requested in person or by phone/mail
- Over 1,200 returned annually over the past 5 years
- Harvest reports are not expanded
- Helpful for looking at trends

KODIAK SALMON/HERRING/CRAB/ SUBSISTENCE PERMIT
 PERMIT EXPIRES DECEMBER 31, _____



PERMIT # _____

NAME _____
 ADDRESS _____

I hereby certify that I am an Alaskan resident, and any salmon, herring or crab, taken will be used for subsistence purposes only.

PERMITTEE SIGNATURE _____ DATE _____

Additional members of same household to be included on permit (Residents Only).

Limit of 25 salmon per family member listed in area defined in regulation 5AAC01.530 (b)(1). Remainder of Kodiak Area not described in 5AAC01.530 (b)(1) of this subsection, there is no annual limit.

Total number of salmon allowed on this permit _____

SUBSISTENCE SALMON HARVEST REPORT						
NUMBER OF SALMON BY SPECIES						
DATE	SPECIFIC LOCATION	SOCKEYE	CHINOOK	COHO	PINK	CHUM

⇒ ALL PERSONS MUST HAVE A VALID SUBSISTENCE PERMIT IN POSSESSION WHILE TAKING OR ATTEMPTING TO TAKE SUBSISTENCE SALMON, HERRING, OR CRAB.



- Document harvest of all resources with all gear types
- Collect contextual information
- Estimates are expanded
- Include mapping of search and harvest areas, and ethnographic interviews
- Ideally conducted every 10 years
- Time-intensive
- Only a one-year snapshot
- Dependent on funding



An ADF&G researcher conducts a household harvest survey in Kodiak, 2022



Comprehensive Subsistence Data for the Kodiak Area

	Kodiak road-connected	Ouzinkie	Port Lions	Larsen Bay	Karluk	Akhiok	Old Harbor
1982	x	x	x	x	x	x	x
1986		x	x	x	x	x	x
1989		x	x	x	x	x	x
1990		x		x	x		
1991	x	x		x	x		x
1992	x	x		x		x	
1993	x	x	x	x			
1997		x		x			x
2003		x	x	x		x	x
2018				x		x	x
2021	x						
2022		x	x				



ANS: 26,800 - 44,700 salmon

- Legal gear: gillnet and seine
- Generally open year-round throughout the KMA
- No annual limits except for road accessible areas, but additional permits can be obtained

Proposals 58

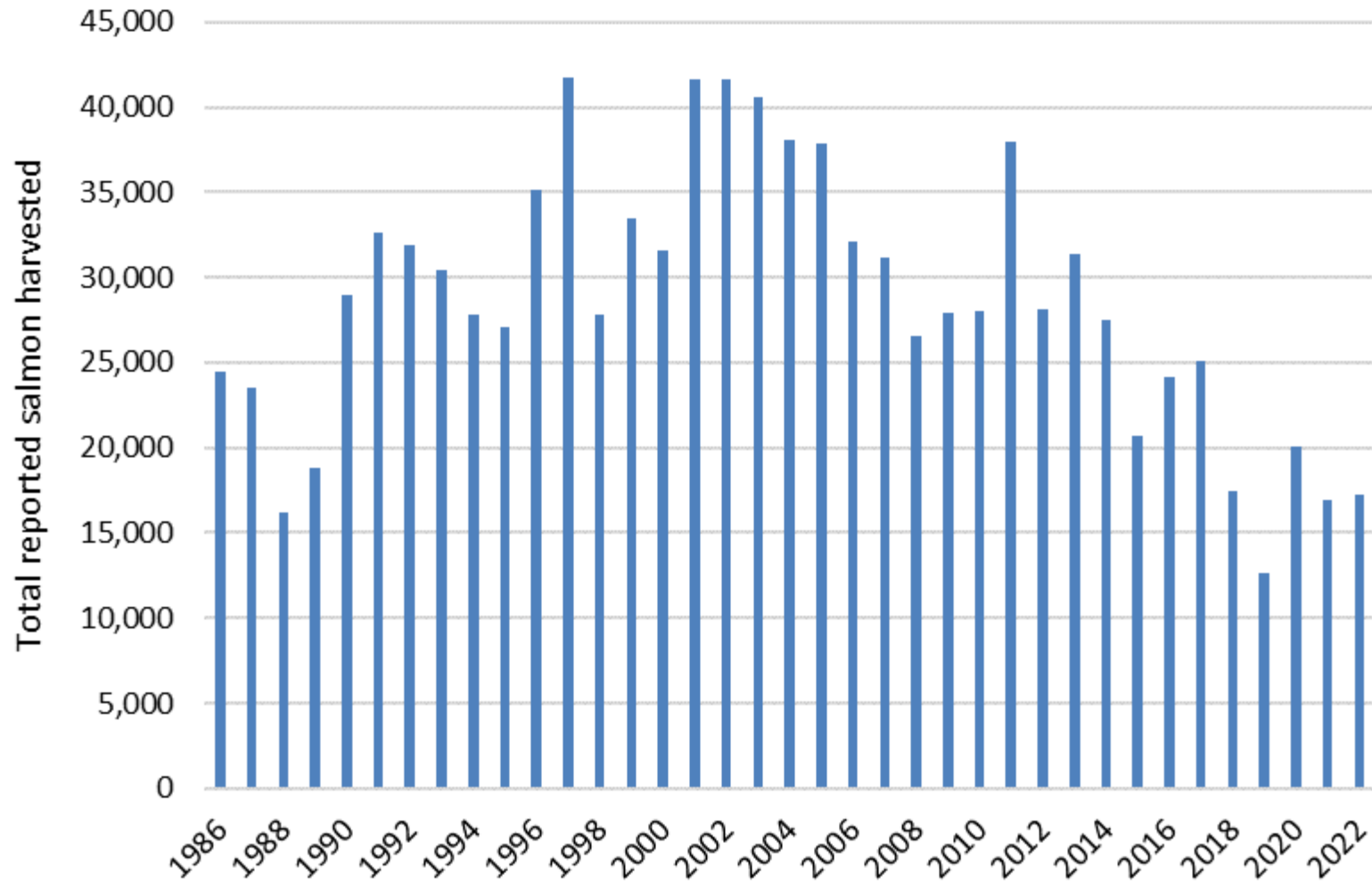
Establish subsistence closed waters near the outlets of Danger and Cold Creeks within Kazakof (Danger) Bay



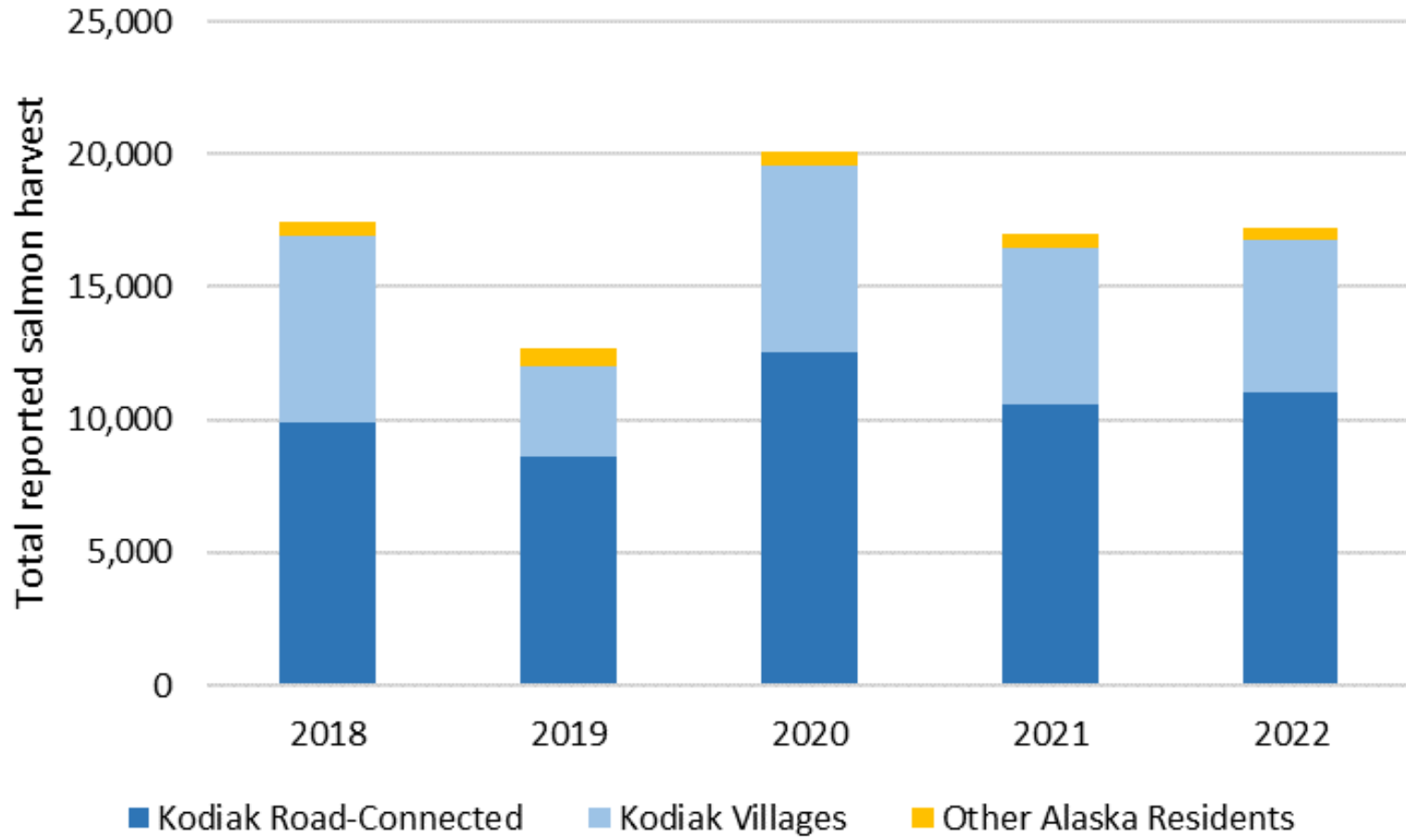
Salmon harvest in Larsen Bay



Subsistence Salmon Permit Data

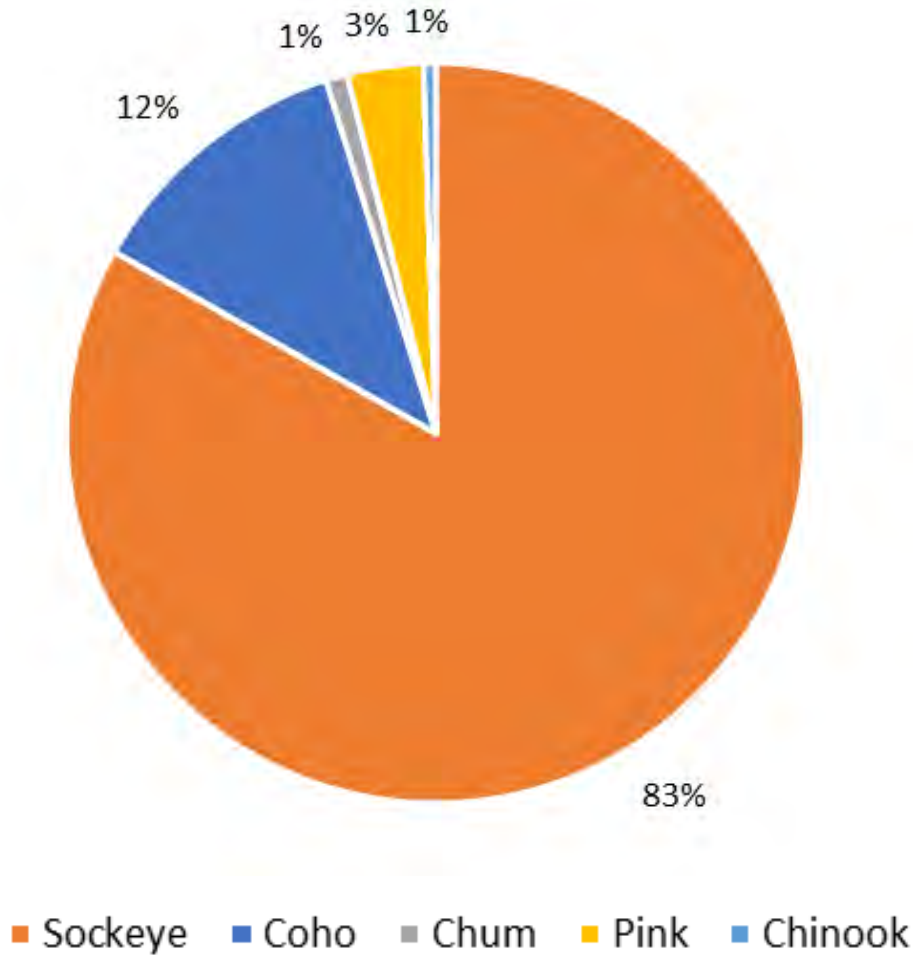


Reported Salmon Harvest by Place of Residence, 2018 – 2022



12 salmon/permit **68 salmon/permit** **4 salmon/permit**
2022 average salmon/permit by place of residence





Sockeye harvest, Larsen Bay



Rockfish

ANS: 21,000 - 35,000 rockfish

Lingcod

ANS: 3,300 - 5,600 lingcod

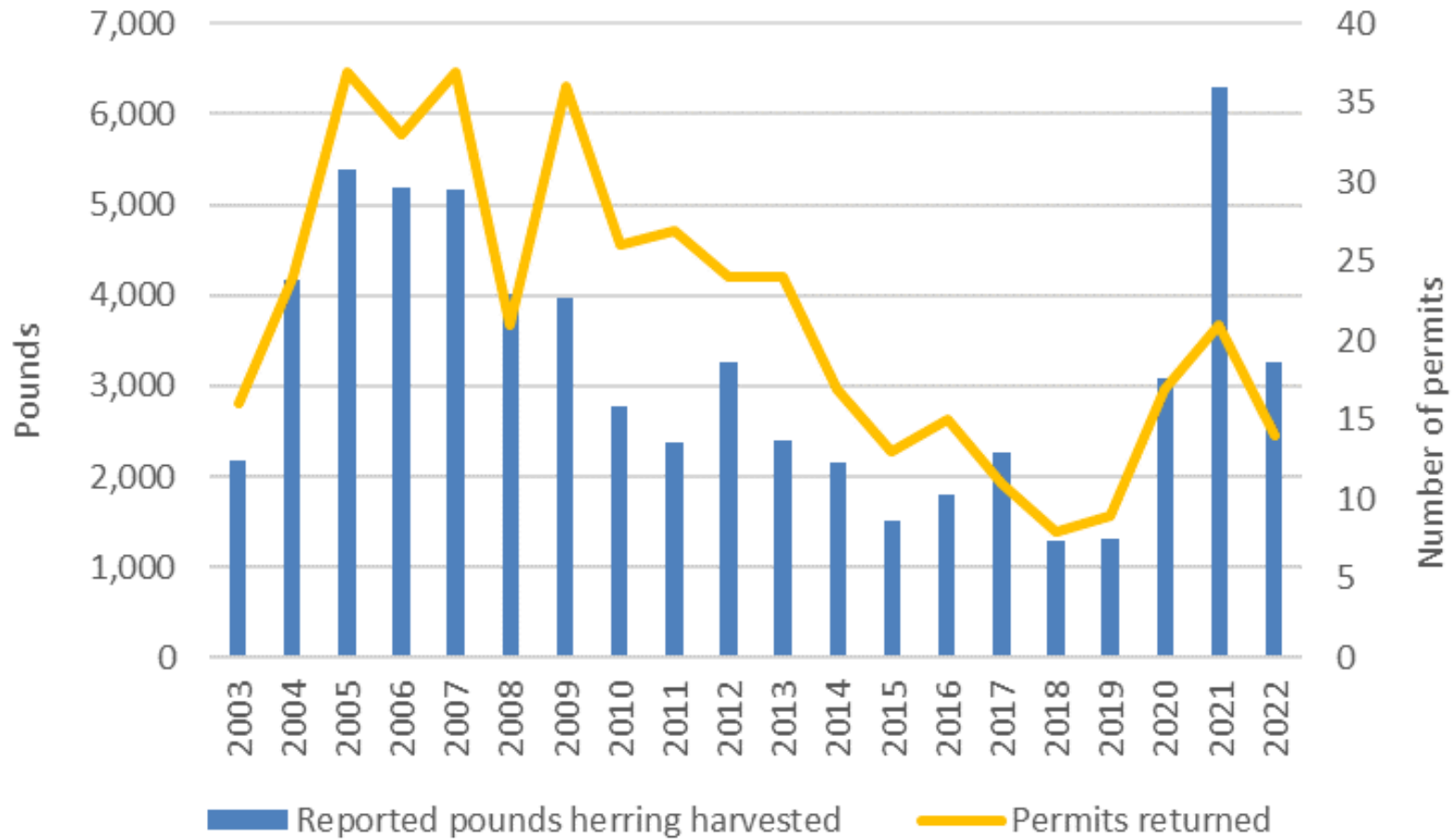
Legal Gear

Single hand-held line, or single longline with no more than 5 hooks attached



Photo Credit: Kodiak Alutiiq Museum





Projects

- EVOS Kelp Study

Partnerships

- Sun'aq Tribe of Kodiak
- Kodiak National Wildlife Refuge
- Native Village of Ouzinkie
- Native Village of Port Lions
- Kodiak Archipelago Leadership Institute

Publications

- Technical Paper 477: Akhiok, Larsen Bay, and Old Harbor
- Kodiak Road and Port Lions and Ouzinkie Technical Papers in progress



Shadowing Sun'aq Tribe of Kodiak crayfish project, 2023



Kodiak Road Community Data Review, November 2022



Lauren Sill

Southern Region Program Manager

lauren.sill@alaska.gov

(907) 465-3617

Jackie Keating

Southcentral Subsistence Resource Specialist 3

jacqueline.keating@alaska.gov

(907) 267-2368

Community Subsistence Harvest Information System

<http://www.adfg.alaska.gov/sb/CSIS/>

Division Technical Paper Series

<http://www.adfg.alaska.gov/sf/publications>

Thank you to all the Kodiak residents who have participated in this research!



Creating a household list in Port Lions, 2023