



Subsistence Overview

Presentation to the Alaska Board of Fisheries
Homer, Alaska - November 2023



Lauren Sill and Jackie Keating
RC 3, Tab 5



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

C&T Determinations: The framework the board uses to identify the subsistence pattern of use of fish stocks and game populations. 5 AAC 99.010


Amounts Necessary for Subsistence: Subsistence statute requires the Board to determine the amount of the harvestable portion of a fish stock that is reasonably necessary for subsistence uses. AS 16.05.258(b)



Types of Research Projects

- Community baseline harvest studies
- Special topic research
- Local and Traditional Knowledge
- Harvest monitoring

 Most projects are partnerships


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



Nanwalek salmon harvest surveys, 2018

Research Focus

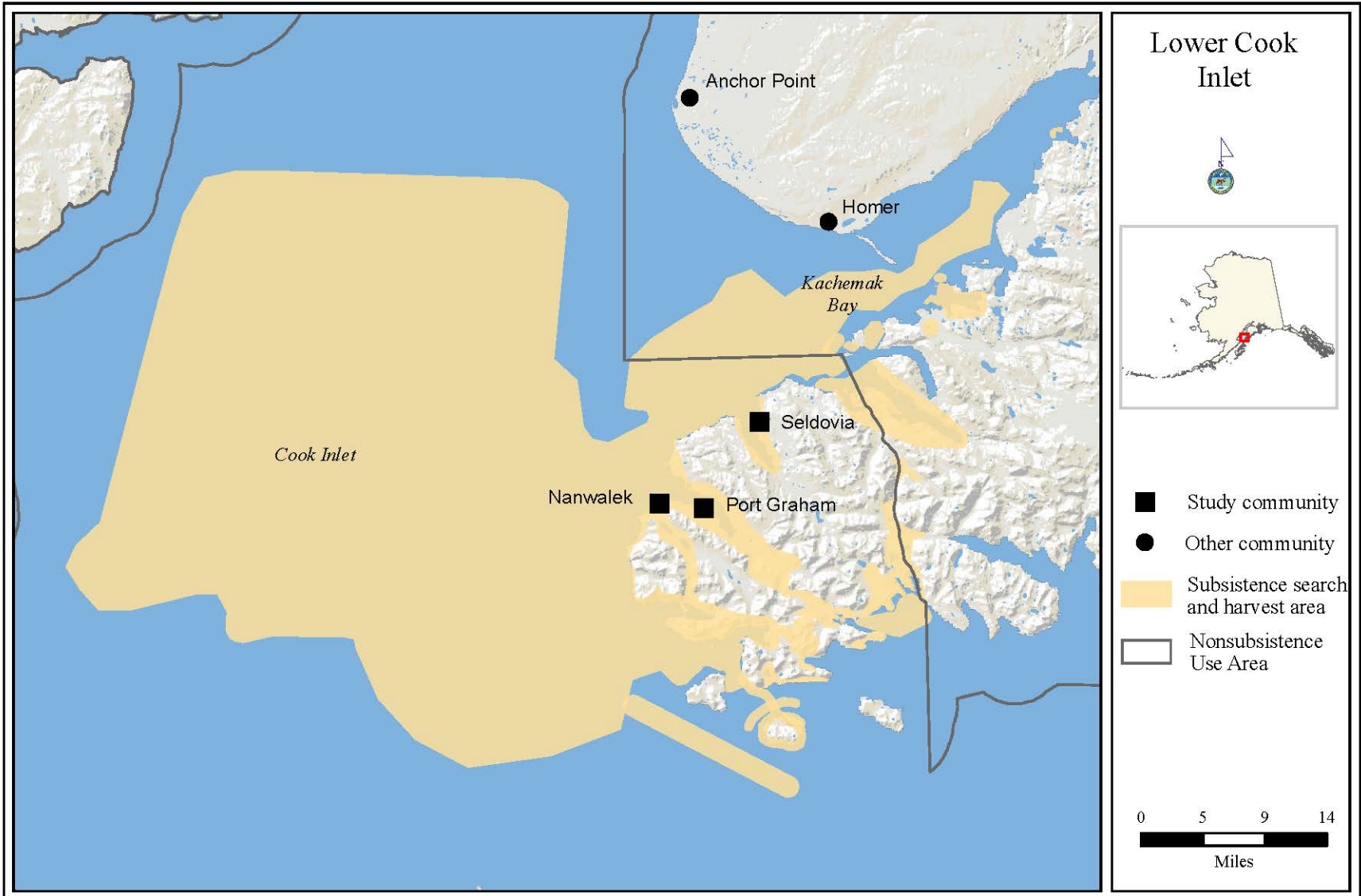
- Methods of harvesting and processing
- Harvest and use estimates
- Sharing of wild foods
- Search areas
- Trends in resource use
- Demographics and income

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



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

Search and Harvest Area Mapping

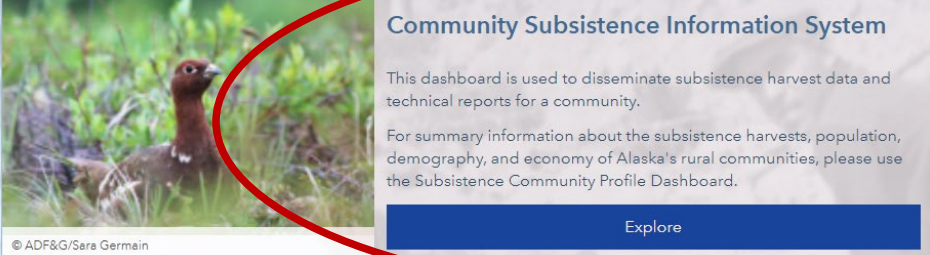


Primary Methods

- Semi-structured interviews
- Participant Observation
- Life history mapping
- Rigorous qualitative data analysis



Alaska Department of Fish and Game Active Online Subsistence Surveys

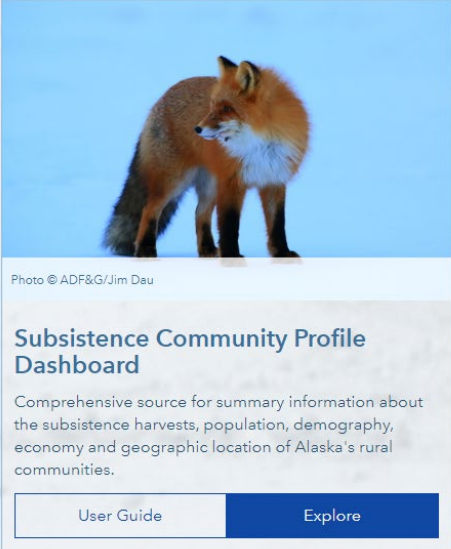


Community Subsistence Information System

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.

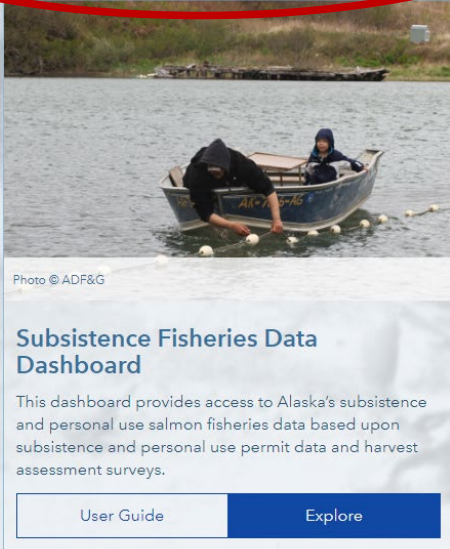
[Explore](#)



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](#)

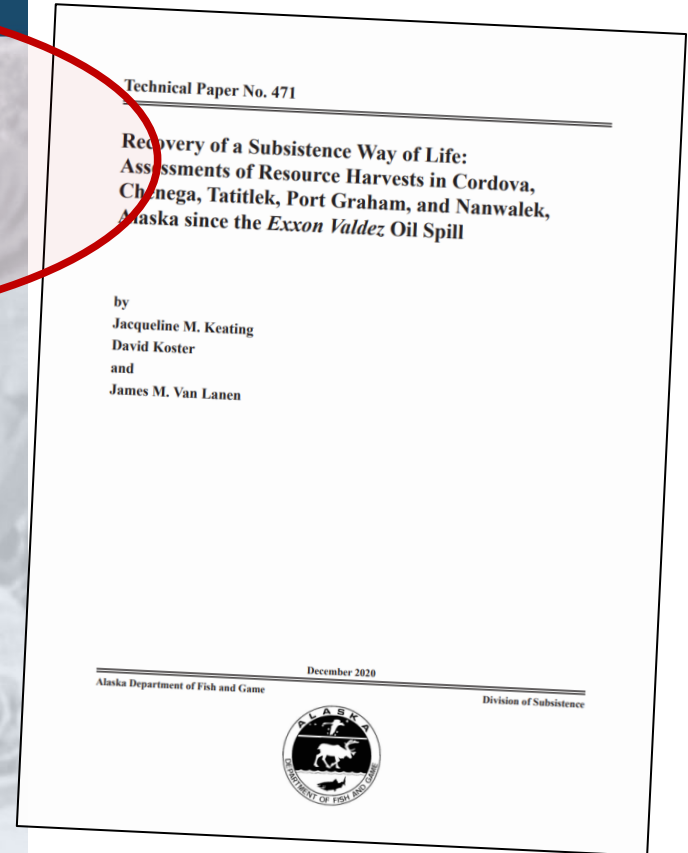


Subsistence Fisheries Data Dashboard

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.

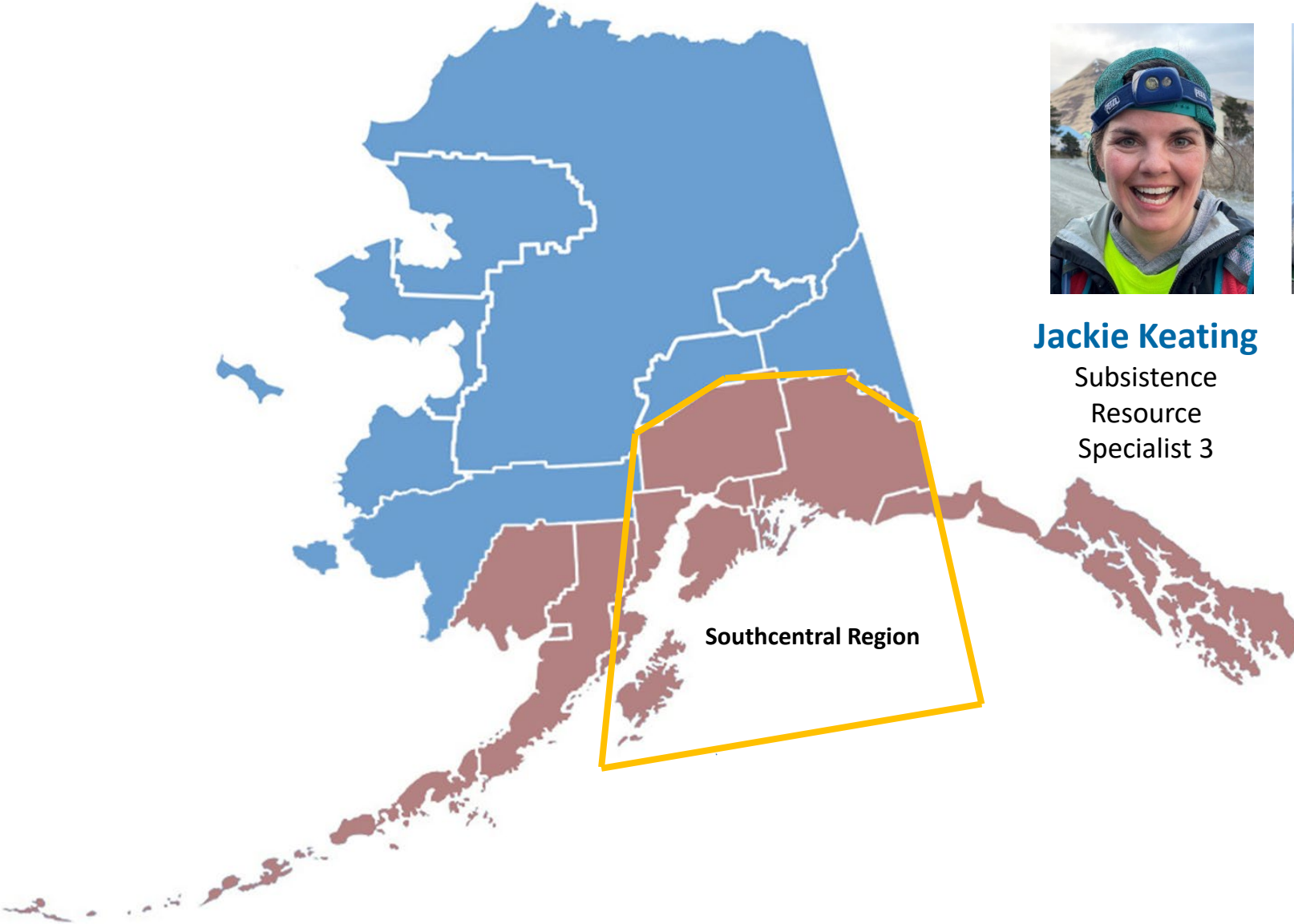
[User Guide](#) [Explore](#)

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



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



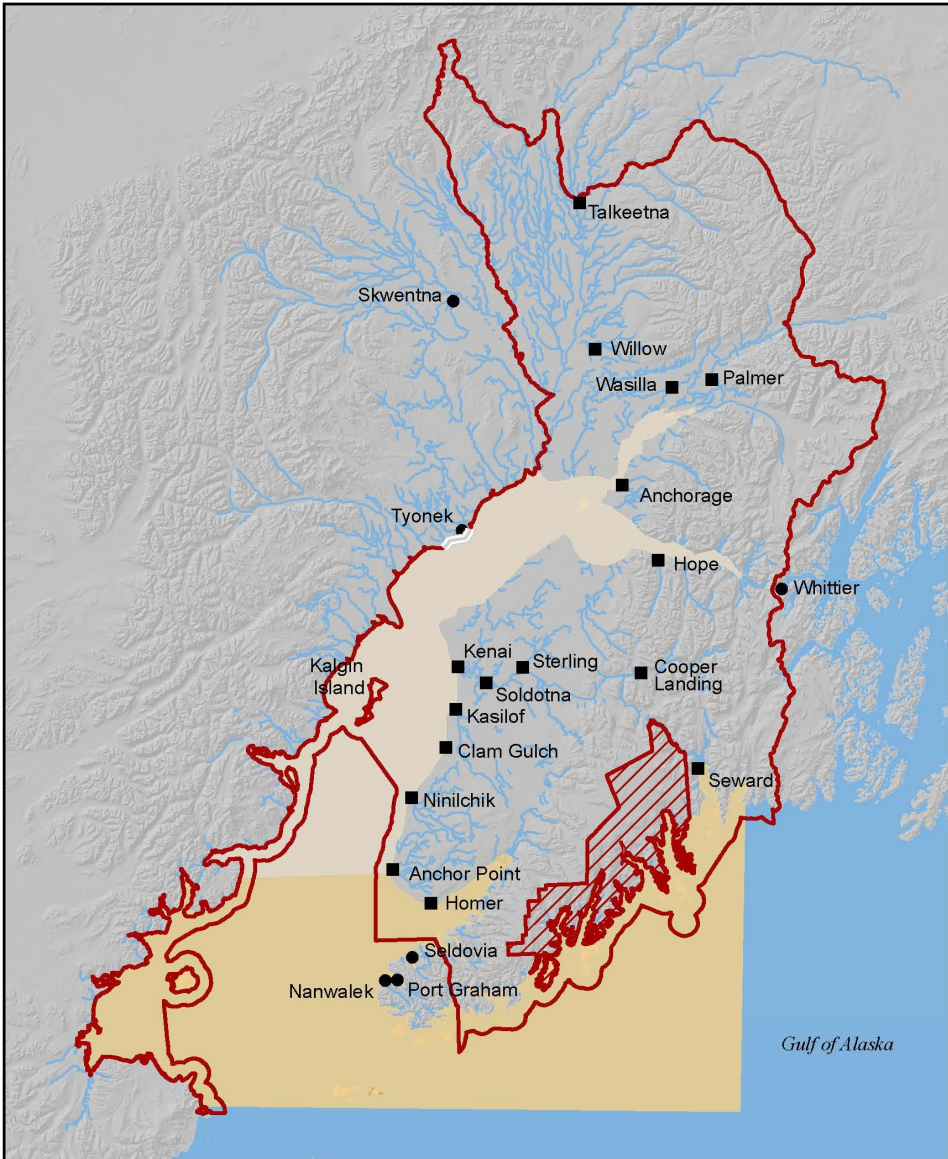


Jackie Keating
Subsistence
Resource
Specialist 3

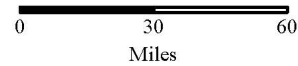


Christian Woodard
Subsistence
Resource
Specialist 2

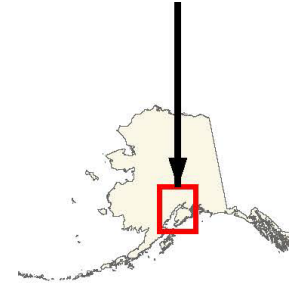


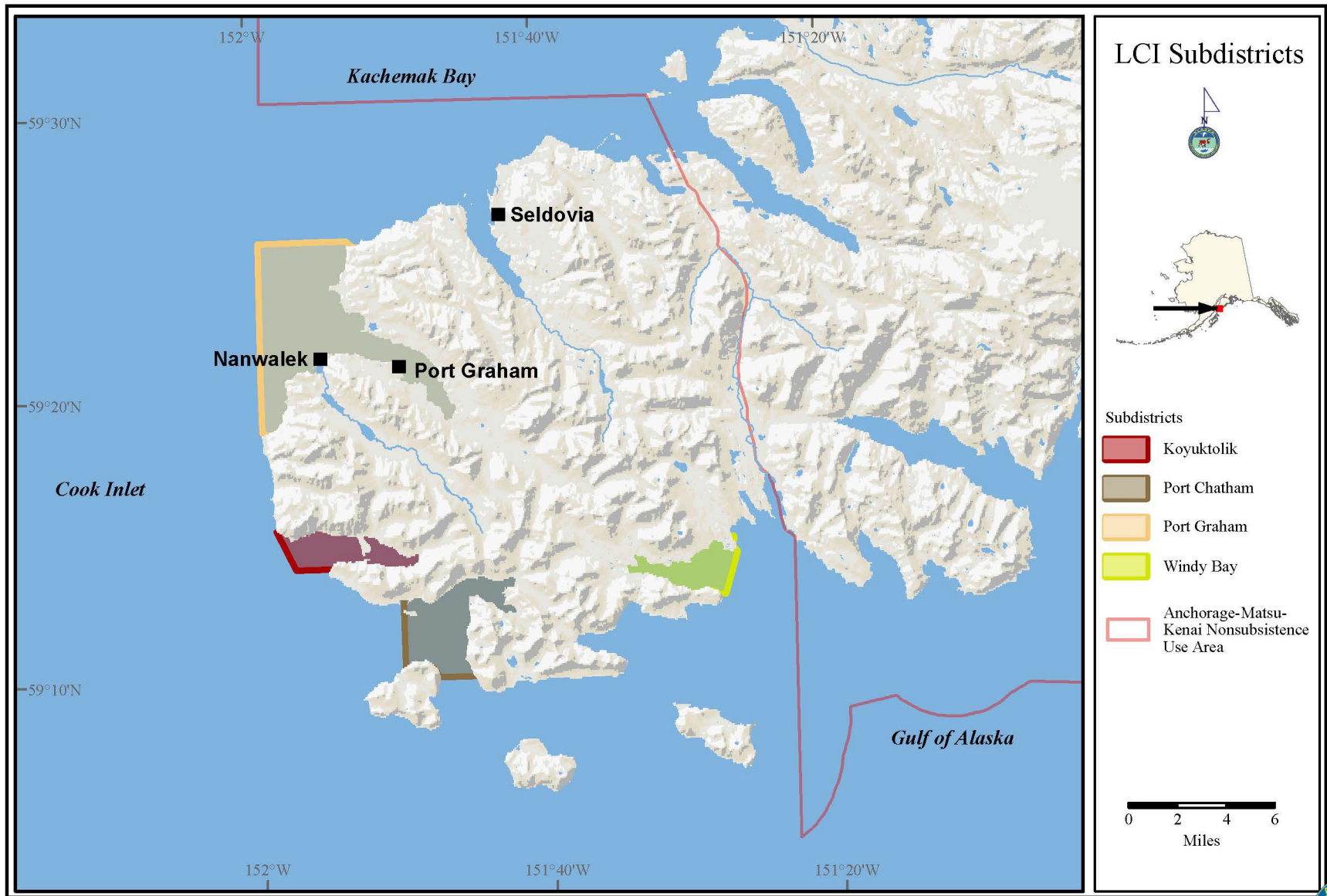


Anchorage-Matsu-Kenai Nonsubsistence Use Area



- Community within NSA
- Community outside NSA
- Upper Cook Inlet Management Area
- Lower Cook Inlet Management Area
- Tyonek Subdistrict
- Nonsubsistence Use Area
- Kenai Fjords National Park & Preserve





Salmon in the Port Graham, Koyuktolik, Port Chatham, and Windy Bay Subdistricts;

ANS: 4,800 - 7,200 salmon in the Port Graham, Koyuktolik, Port Chatham, and Windy Bay Subdistricts.

Limited to set gillnets, time and area restrictions, permits managed by the Division of Commercial Fisheries, Homer.



A Port Graham resident removes salmon from a gillnet, 2016

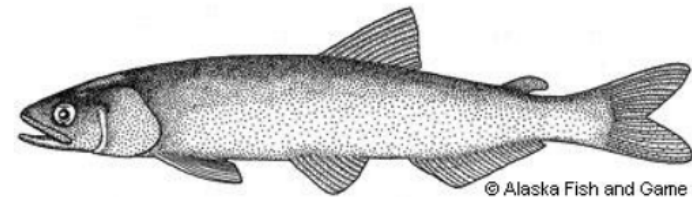
Dolly Varden in fresh waters of the Port Graham Subdistrict;

Taken using beach seines, reported daily on permits.



Smelt in those portions of the Cook Inlet Area outside the boundaries of the NSA;

Can be taken with dip nets and gillnets in salt water (spring and fall) and fresh water (spring).



Bottomfish, halibut, and herring in those portions of the Cook Inlet Area that are outside the boundaries of the nonsubsistence area;

ANS: 100 - 225 lingcod.

ANS: 750 - 1,350 rockfish.

Proposal 30: Clarify regulations about the subsistence harvest of herring spawn.



Fishermen in Port Graham harvest halibut, 2016

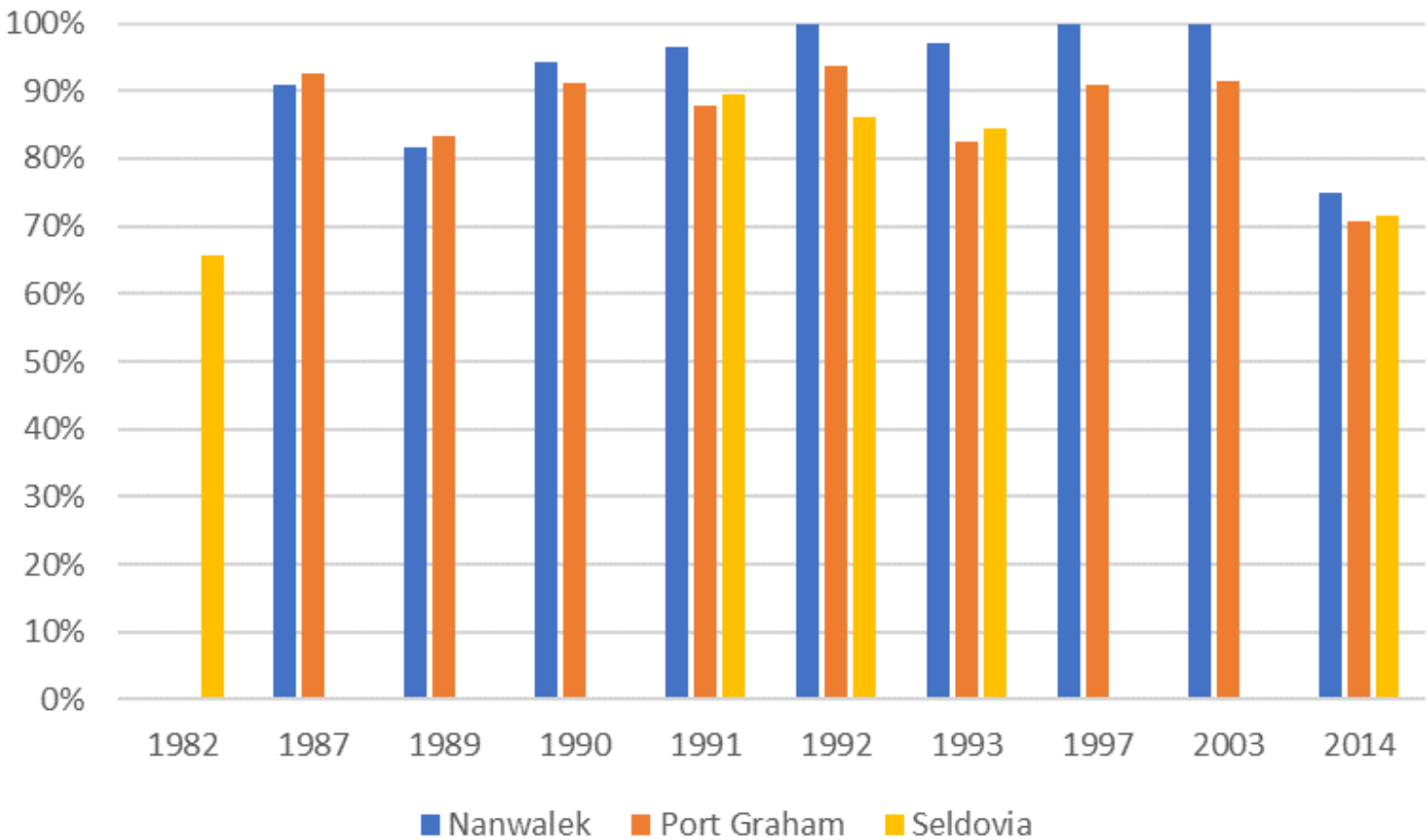


	Nanwalek	Port Graham	Seldovia
1982			X
1987	X	X	
1989	X	X	
1990	X	X	
1991	X	X	X
1992	X	X	X
1993	X	X	X
1997	X	X	
2003	X	X	
2014	X	X	X
2016	S	S	
2017	S	S	
2023		X	

x = comprehensive harvest survey
 s = salmon only survey

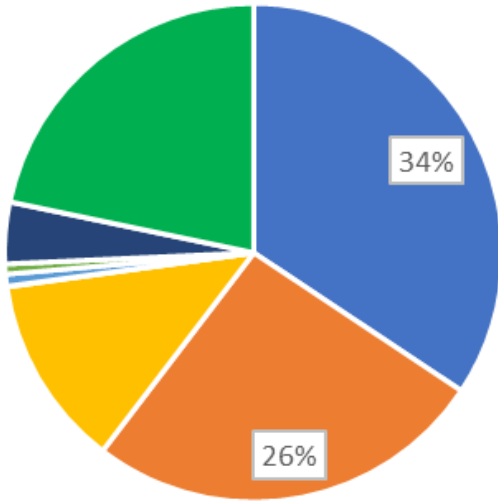


Percentage of Households Fishing



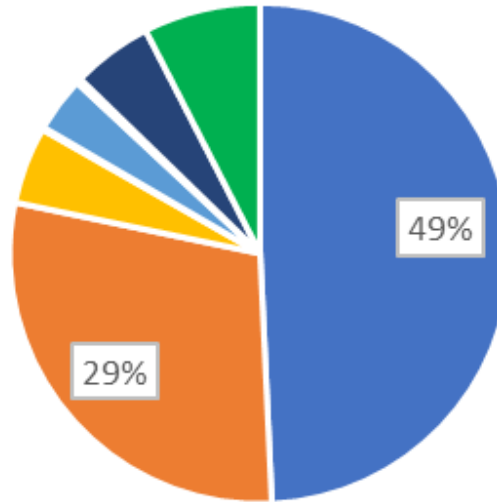
Harvest Composition, Pounds Harvested per Capita

Seldovia 2014



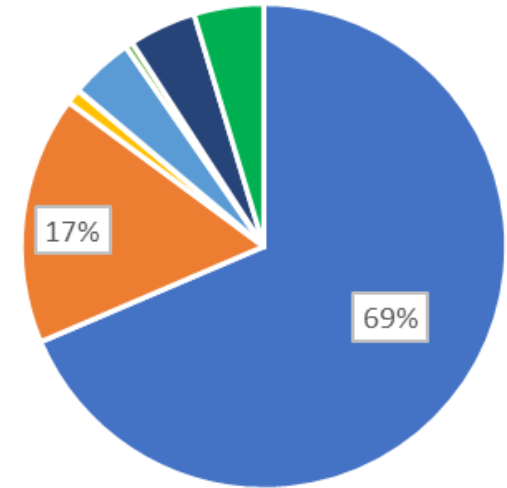
34% salmon
47 lb. per capita

Port Graham 2014



49% salmon
108 lb. per capita

Nanwalek 2014



69% salmon
174 lb. per capita

- Salmon
- Non-Salmon Fish
- Large Land Mammals
- Small Land Mammals
- Marine Mammals
- Birds and Eggs
- Marine Invertebrates
- Vegetation



Projects

- Port Graham comprehensive household harvest surveys, 2024
- Project proposals for Nanwalek and Seldovia for 2025 - 2026

Partnerships

- Nanwalek Fisheries Working Group
- Chugach Regional Resources Commission
- Collaboration with other Divisions
 - Port Graham Moose TEK Project, DWC

Publications

- (RC X) EVOS Paper
- (RC X) Nanwalek/Port Graham Salmon

Technical Paper No. 471

**Recovery of a Subsistence Way of Life:
Assessments of Resource Harvests in Cordova,
Chenega, Tatitlek, Port Graham, and Nanwalek,
Alaska since the *Exxon Valdez* Oil Spill**

by
Jacqueline M. Keating
David Koster
and
James M. Van Lanen

December 2020

Alaska Department of Fish and Game

Division of Subsistence



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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 Lower Cook Inlet residents who have participated in this research!



Smoke house in Port Graham