Subsistence Harvest of Herring Eggs in Sitka Sound



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Outline of Presentation

- Regulatory history
- Harvest assessment program
- 2021 survey results
- 2022 survey planning





Board of Fisheries actions



Harvest Monitoring Program

HERRING EGG SUBSISTENCE HARVEST SURVEY SITKA, ALASKA 2019

This survey is used to estimate subsistence harvests of herring eggs from Sitka Sound and to describe community subsistence economies. We will publish a summary report which will be available to all households in your community. We share this information with the Sitka Tribe of Alaska, the Alaska Department of Fish and Game, the U.S. Fish and Wildlife Service and the National Park Service. We work with the Federal Regional Advisory Councils and with local Fish and Game Advisory Committees to better manage subsistence, and to implement federal and state subsistence priorities.

IMUNITY ID:	Sitka	313
RVIEWER:		
RVIEW DATE:		
	DATA CODED BY:	
	DATA ENTERED BY:	
	SUPERVISOR:	

This project is guided by the research principles adopted by the Alaska Federation of Natives in 1993. We will NOT identify your household. We will NOT use this information for enforcement. Participation in this survey is voluntary. Even if you agree to be surveyed, you may stop at any time.





- To conduct in-person interviews with households who harvest herring spawn.
- To produce estimates of the total pounds of herring spawn harvested on hemlock branches, Macrocystis kelp, hair seaweed and "other" substrates; and,
- To identify locations where herring spawn are harvested.



Conversion factors

- Determining harvest weights
 - STA and the department work together to develop a set of conversion factors.
 - Apply to most common types of containers.
 - Average weights developed through multiple measurements.





Survey Sample Achievement





Estimated Harvest



Note The 2020 harvest is shown in yellow to reflect an atypical harvest year, perhaps due to the COVID-19 pandemic.

Total pounds useable weight and amount necessary for subsistence (ANS) of herring spawn on all substrates in Sitka Sound, 2002–2021.



Harvest Effort



Note The 2020 harvest is shown in yellow to reflect an atypical harvest year, perhaps due to the COVID-19 pandemic.

Total pounds useable weight and number of subsistence harvesters in Sitka Sound, 2002–2021.



Harvest Locations 2021



Harvest Locations, 2011-2020



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Spawning Days, 2021





Sharing Herring Eggs



Percent of harvesting households giving away herring eggs, 2002-2021



Region	# of households
Southeast	128
Yukon-Kuskokwim Delta	16
Mat-Su	13
Bristol Bay	3
Prince William Sound	2
Aleutians	3
Interior	9
Kenai Peninsula	7
Arctic	18
Outside Alaska	13



Herring Spawn Harvest by Substrate



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Distribution of Harvest



30%

61%

RE

9%

2021 project results

Herring spawn, hair seaweed



What size vessel did households use to harvest herring spawn in 2021?

Number of						No boat used -
households	less than 20			Commercial		harvested
responding	feet	20 - 24 feet	Over 24 feet	vessel	Other	from shore
38	45%	40%	8%	11%	3%	0%

Number of households that harvesting households usually harvest for, 2021

Number of							
households					Fifty-one to one	Over one	
responding	One	Two to five	Six to ten	Eleven to fifty	hundred	hundred	
32	9%	22%	28%	13%	10%	19%	



2021 project results

Assessments

35% 30% 25% Q: Why do you 20% feel your harvest was better in 15% 2021 than in recent years? 10% (n=20) 5% 0% Good quality Other New More Fishery Better year harvester available spawn management

2021 project results

Project timeline

- 2022 project
- April through June: Harvester surveys
- June through September: Data analysis
- October through November: Report writing
- December 2022: Report publication



2021 survey