

Seafood Technical Program

FY26 Budget and Update

John Burrows



Program	FY21	FY22	FY23	FY24	FY25	FY26
Program Operations						
Personal Services	\$ 269,000	\$145,000	\$153,000	\$197,000 ***	\$193,000	\$217,600
Travel	\$ 40,000	\$20,000	\$20,000	\$15,000	\$20,000	\$15,000
Total	\$ 309,000	\$165,000	\$173,000	\$212,000	\$213,000	\$232,600
Trade Education						
Industry Training/Resource Development	\$14,000	\$35,000	\$40,000	\$30,000	\$30,000	\$15,000
Total	\$ 14,000	\$35,000	\$40,000	\$30,000	\$30,000	\$15,000
Support Materials						
Content Development	\$ 30,000	\$40,000	\$42,000	\$40,000	\$30,000	\$20,000
Outreach and Education	\$ 30,000	\$40,000	\$42,000	\$40,000	\$30,000	\$20,000
Total	\$ 60,000	\$80,000	\$84,000	\$80,000	\$60,000	\$40,000
Applied Investigations						
Research and Development	\$ 50,000	\$110,000	\$123,000	\$98,000	\$87,000	\$112,400
Total	\$ 50,000	\$110,000	\$123,000	\$98,000	\$87,000	\$112,400
TOTALS	\$ 433,000	\$390,000	\$420,000	\$420,000	\$390,000	\$400,000



Outreach and Resource Development



Support Materials

WILD ALASKA SEAFOOD —FROZEN QUALITY—

Frozen seafood taste increasingly rated
'AS GOOD IF NOT BETTER'
than never frozen seafood.

Consumers recently rated frozen seafood as having very high quality and taste and increased consumer grade harvesters of wild Alaska seafood over 20 years time.

- 48% excellent
- 38% good
- 12% fair
- 2% poor
- 2% very poor

Consumers did not drop at all in some cases (e.g., salmon) or even improved (e.g., halibut). This suggests that consumers are becoming more discerning and are looking for higher quality products.

Preparation
Consumers are more likely to buy frozen seafood if they have had a positive experience with a frozen preparation of this seafood and are more likely to buy frozen seafood if they have had a positive experience with a frozen preparation of this seafood.

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CONSUMER ACCEPTABILITY AND SHELF-LIFE ASSESSMENT OF FROZEN SEAFOOD: Consumers' Taste on Frozen Seafood and their Assessment of the Shelf Life and Taste Quality of Wild Alaska Seafood over Two Years Time Using Sensory Preparation, Consumer Acceptability and Purchase Intent

Authors: [Names], Alaska Seafood Marketing Institute

Abstract: The objective of this study was to assess consumer acceptance and purchase intent for frozen wild Alaska seafood over a two-year period. The study involved 100 consumers who tasted and evaluated frozen wild Alaska seafood (salmon, halibut, and cod) against fresh wild Alaska seafood. The study found that consumers rated frozen wild Alaska seafood as having high quality and taste, and that their assessment of the shelf life and taste quality of wild Alaska seafood improved over time. The study also found that consumers were more likely to purchase frozen wild Alaska seafood if they had a positive experience with a frozen preparation of this seafood.

Keywords: frozen seafood, consumer acceptance, shelf life, taste quality, purchase intent.

- New Nutrition Videos
 - D, Zinc DONE
 - Mood Boost and Stress Relief in Progress
- Updates to species sheets: Herring/RoK
- Study Outreach
- Quality harvest/counter w/Pat Race

WILD ALASKA HERRING ROE

Chignik Pass, Alaska

HARVESTING

Chignik Pass herring roe is a special delicacy, a delicacy that has been harvested for generations. The fish are harvested in the Chignik Pass area of Alaska, where they are known for their quality and taste.

ABOUT

Chignik Pass herring roe is a special delicacy, a delicacy that has been harvested for generations. The fish are harvested in the Chignik Pass area of Alaska, where they are known for their quality and taste.

PRODUCTS

Chignik Pass herring roe is a special delicacy, a delicacy that has been harvested for generations. The fish are harvested in the Chignik Pass area of Alaska, where they are known for their quality and taste.

GASTRONOMY

Chignik Pass herring roe is a special delicacy, a delicacy that has been harvested for generations. The fish are harvested in the Chignik Pass area of Alaska, where they are known for their quality and taste.

NUTRITION

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WILD ALASKA HERRING

Chignik Pass, Alaska

HARVESTING

Chignik Pass herring is a special delicacy, a delicacy that has been harvested for generations. The fish are harvested in the Chignik Pass area of Alaska, where they are known for their quality and taste.

WILD HABITAT

Chignik Pass herring is a special delicacy, a delicacy that has been harvested for generations. The fish are harvested in the Chignik Pass area of Alaska, where they are known for their quality and taste.

PRODUCTS

Chignik Pass herring is a special delicacy, a delicacy that has been harvested for generations. The fish are harvested in the Chignik Pass area of Alaska, where they are known for their quality and taste.

DOING PEOPLE

Chignik Pass herring is a special delicacy, a delicacy that has been harvested for generations. The fish are harvested in the Chignik Pass area of Alaska, where they are known for their quality and taste.

NUTRITION

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WILD ALASKA SEAFOOD — FROZEN QUALITY —

*Frozen seafood taste increasingly rated
'AS GOOD IF NOT BETTER'
than never frozen seafood.*

Consumers recently rated frozen seafood as having very high quality when stored in home and commercial grade freezers at every time point over 2 years' time.

SCORES
6 months = excellent
1 year = excellent
1.5 years = excellent
2 years = excellent



→ **surprising scores**
Scores did not drop and in some cases rose with longer frozen storage time.

→ **blind study**
Consumers didn't know the fish had been frozen or how long it was frozen.

→ **simple preparation of fish**
The study used Alaska coho salmon and sablefish prepared simply.



**Frozen sablefish over 24 months time:
CONSUMER LIKING INCREASED SIGNIFICANTLY
($p < 0.05$) from time 0 months to time 24 months**



Wild, Natural & Sustainable®



CONSUMER ACCEPTABILITY AND SHELF-LIFE ASSESSMENT OF FROZEN SEAFOOD: Consumers' Take on Frozen Seafood and their Assessment of the Shelf Life and Taste Quality of Three Species over Two Years' Time using Sensory Properties, Consumer Acceptability and Purchase Intent

Ann Colonna, Oregon State University/Food Innovation Center
Christina DeWitt, Oregon State University/COMES
Jamie Doyle, Oregon State University/Oregon Sea Grant
Tyson Rasor, EcoTrust

Topline summary of Sensory Results: Past research shows that consumers find frozen seafood to be as good as, if not better than fresh (never frozen) products. This project builds on these findings by determining the shelf life (nutrient density, oxidation, texture) and consumer acceptability of three frozen seafood products stored in two different freezers, commercial/industrial (-30°C) and home (-18°C) over two years. Five shelf life tests were conducted with over 600 target market consumers from the Portland, Oregon Metro area who were users and likers of seafood. The test dates were conducted at times 0 months, 6 months, 12 months, 18 months and 24 months. At each time point, the seafood was tested by 120 unique consumers who

were not aware they were testing frozen seafood or of the storage period. Samples were blind coded and served in a randomized order to prevent order bias in assessments. Panelists executed the testing in sensory booths at the Oregon State University Food Innovation Center.

After 24 months, results show that the attributes tested including the appearance, color, aroma, texture, flavor, sweetness, saltiness, overall texture, firmness, oil content, aftertaste and overall quality were liked equally or more than at time 0 months. There were no significant differences in the overall liking of the albacore or Coho salmon over 24 months. All mean liking scores of both species were rated above 7.0

(like moderately) on the 9-point hedonic scale; a score considered very favorable by industry standards. Unique to these results, the sablefish overall liking mean scores were also at 7.0 or above at all timepoints, but mean overall liking scores increased significantly over time. The highest mean liking score for the sablefish, stored in a commercial freezer, was 8.06 (like very much) on the 9-point hedonic scale, at timepoint 24 months. This mean liking score at 24 months was significantly higher than the score of 7.13 at timepoint 0 months, demonstrating that not only was the sablefish stored in a commercial freezer for 24 months well liked, it was liked significantly more than the product stored frozen for only one week.

DID YOU KNOW?

'Sushi grade' seafood is seafood which has been frozen for a set amount of time prior to consumption in order to kill parasites without cooking.



Wild, Natural & Sustainable®

Support Materials

Keep 'Em Separated

"Raw and cooked products should remain separate"



Belly Down

Drain melting ice away from fish.



Clear Eyes, Full Totes, Can't Lose.

"Display fish eyes should be bright and clear."



Armor Up

Checklist: Wash Hands. Wear Hairnets & Gloves. Wash Hands.



Fresh Ice

Display fish on clean, crisp ice.



Handle with Care

Fillets should be handled with care to maintain best quality



Budget: Support Materials

Program	FY21	FY22	FY23	FY24	FY25	FY26
Support Materials						
Content Development	\$ 30,000	\$40,000	\$42,000	\$40,000	\$30,000	\$20,000
Outreach and Education	\$ 30,000	\$40,000	\$42,000	\$40,000	\$30,000	\$20,000
Total	\$ 60,000	\$80,000	\$84,000	\$80,000	\$60,000	\$40,000



A close-up photograph of a person's hands, wearing a teal jacket, examining a fishing net. The person is holding a section of the net, and the background is blurred, showing other parts of the net and a yellow buoy. The text "Applied Investigations" is overlaid in white, centered on the image.

Applied Investigations



Applied Investigations

- **NOAA SK Grant: Nutrient and Contaminant Database (ADEC)**
- **Alaska Salmon Consumption and Reduced Inflammation for Breast Cancer (UCONN)**
- **Recovery of Nutritional Food from Seafood Byproducts (FFAR)**
- **Consumer Acceptability and Shelf-life Assessment of Frozen Seafood**
- **Chef Sensory Analysis of Frozen AK Seafood (OSU/UMaine)**
 - **Follow Up: Chicago/Phoenix/Vegas**
- **Parasite Study (UW)**
- **SK Project: Value-Added and Utilization**
- **Carbon Footprint (UW)**
- **NEW Herring Histamine/Sablefish Time/Temp Study (Sea Grant AK)**



Oregon State
University



UCONN



Applied Investigations

- NOAA SK Grant: Nutrient and Contaminant Database (ADEC)

Chinook
Metals
PFAS
Pesticides
Radioisotopes
Chum
Coho
Pink
Sockeye
Pacific Halibut
Pacific Cod
Pollock
Sablefish
Red King Crab
Bairdi Crab
Metals in Alaska's Fish

Composite samples of edible muscle tissue were tested for several environmental contaminants. Each composite sample included equal portions of tissue from 12 individuals.

Chinook

Metals

Mean of Select Metals in Composite Samples

Species	Analyte	n	ND	Mean	SD	Median	Min	Max
Chinook Salmon	InAs	2	2	ND	NA	NA	NA	NA
Chinook Salmon	MeHg	2	0	0.041	0.006	0.041	0.04	0.05
Chinook Salmon	Cd	2	2	ND	NA	NA	NA	NA
Chinook Salmon	Cu	2	0	0.488	0.016	0.488	0.48	0.50
Chinook Salmon	Hg	2	0	0.055	0.012	0.055	0.05	0.06
Chinook Salmon	Se	2	0	0.376	0.025	0.376	0.36	0.39
Chinook Salmon	As	2	0	0.826	0.066	0.826	0.78	0.87
Chinook Salmon	Pb	2	2	ND	NA	NA	NA	NA

Note:

unit = mg/Kg wet weight

InAs = inorganic arsenic (arsenite As(III) + arsenate As(V))

As = Total arsenic

MeHg = methylmercury

Hg = Total mercury (inorganic + organic forms)

ND = non-detect

Mean = arithmetic mean

SD = standard deviation

Reporting limit of As, Cd, Cu, Pb and Se = 0.05 mg/Kg

Reporting limit of Hg and MeHg is 0.01 mg/Kg

Reporting limit of InAs = 0.037 mg/Kg

TECHNICAL & RESEARCH RESOURCES

QUALITY & COMPLIANCE STANDARDS
NUTRITION DATA
SCIENTIFIC RESEARCH LIBRARY

ECONOMIC & HARVEST DATA

MARKETING & BUSINESS TOOLS

RPM CERTIFICATION

NEWS

EVENTS

ABOUT ALASKA SEAFOOD MARKETING INSTITUTE (ASMI)

Salmon

Fish, sockeye salmon, Alaska, raw

	100g	3 oz (85 g)	%DV
Fat (g)	2.72	1	1.5%
Protein (g)	17.2	16	1%

Salmon

Fish, sockeye salmon, Alaska, raw

	100g	3 oz (85g)	%DV
Fat (g)	2.72	3	3.5%
Protein (g)	17.2	16	3%
Calcium (mg)	26.6	10	1%
Iron (mg)	.44	.5	2%



Budget: Applied Investigations

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Carbon Study: 80k, but hopefully reduced to 60k

Herring: ~20k

Chef Study: ~30k

Parasites: ~50k

SK: Unknown



Trade Education and Regulatory



Trade Education/ Regulatory

- SNP SotSS
- USDC/NOAA Discourse
- Material Updates
- FNCE
- SPA Events
- Surimi School
- Cross Coast Collaboration w/OSU
- Comments re:
 - PFAS In Fish (FDA)
 - Revised Standards for Fish Fillet Blocks (USDC)
 - Dietary Guidelines for Americans
 - Inorganic Arsenic in Fish (USDA FAS)
 - Non-Tariff Barriers (USTR)
 - Plant-Based Seafood-Like Products (FDA)



Budget: Trade Education

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FY26 Proposed Budget

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THANK YOU

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Program Director

jburrows@alaskaseafood.org

