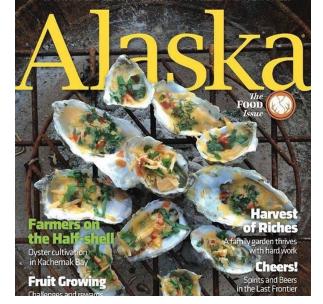
12.10 pm - 12.30 pm

## JULIE DECKER

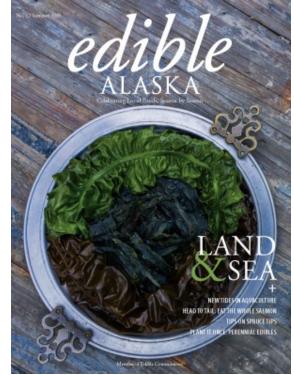
Executive Director,
Alaska Fisheries Development
Foundation,
USA

















**Alaska Mariculture Initiative** 

Julie Decker, Ex. Director, AFDF
September 7, 2022 Seagriculture - Portland, Maine







Mission since 1978 — to identify opportunities common to the Alaska seafood industry and development efficient, sustainable outcomes that provide benefits to the economy, environment and communities.

#### **Areas of work:**

- 1) Alaska Symphony of Seafood
- 2) 100% utilization
- 3) Seafood sustainability certification
- 4) Vessel energy efficiency & transition
- 5) Startup Accelerator (Alaska Ocean Cluster)
- 6) Alaska Mariculture Initiative



# In Alaska, mariculture is enhancement, restoration and farming of shellfish and seaweeds.

Finfish farming is prohibited by Alaska Statute 16.40.210













# Why mariculture?

**Mariculture = Opportunities & Benefits for Alaskans** 







## Alaska Mariculture Initiative (AMI):

#### A strategy to accelerate the development of mariculture in Alaska

**2013:** AFDF Board held strategic planning session; identified mariculture as new area of development

**2014:** NOAA provided a grant to AFDF to lead the Alaska Mariculture Initiative (AMI)

**2016, 2018:** Mariculture Task Force established & extended by Administrative Orders #280 and 297

2018: 2nd NOAA grant for AMI Phase 2; Alaska Mariculture

Development Plan completed

2020: Five-Year Action Plan completed

**2021:** Delivered Final Report to Governor; Task Force sunset & replaced with the <u>Alaska Mariculture Alliance (AMA)</u> & the <u>Mariculture Research and Training Center</u>

**2022:** AMA hired Executive Director (Jason Lessard) & Sea Grant Fellow (Doug Shaftel)

Jakolof Bay Oyster Company, Homer, AK



## AMI: Critical Early & Continued Support







Above: Governors Walker and Dunleavy signing three mariculture bills in 2018, 2021, 2022. Below: Senator Lisa Murkowski at the NOAA Fish Fry sampling kelp salsa.







#### Final Report to Governor Dunleavy

PRODUCED BY THE ALASKA MARICULTURE TASK FORCE
May 2021



"Make Alaska the Mariculture Capital of the World"
- Governor Mike Dunleavy









Final Report & Five-Year Action Plan delivered to Gov. Dunleavy

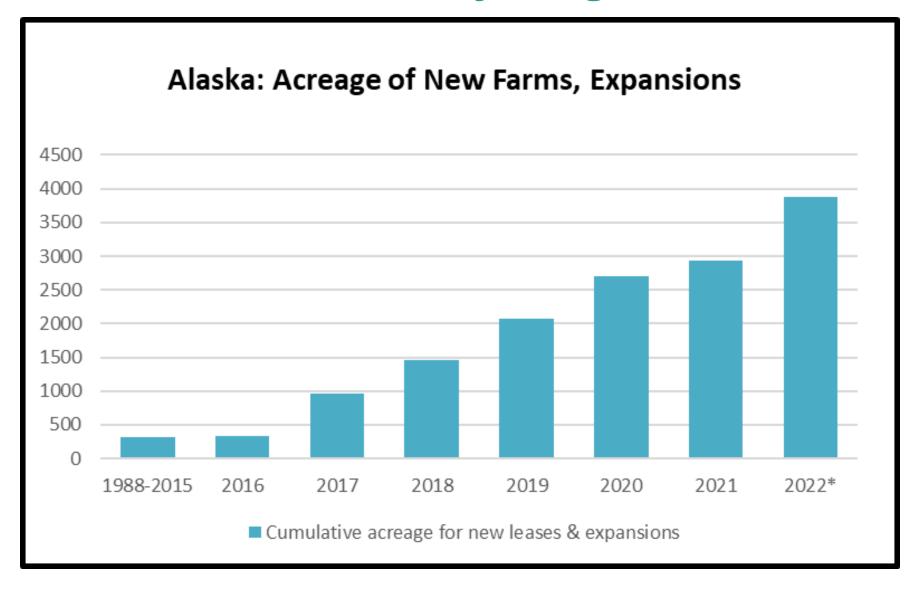
Goal = Grow a \$100 million/yr mariculture industry in 20 years.

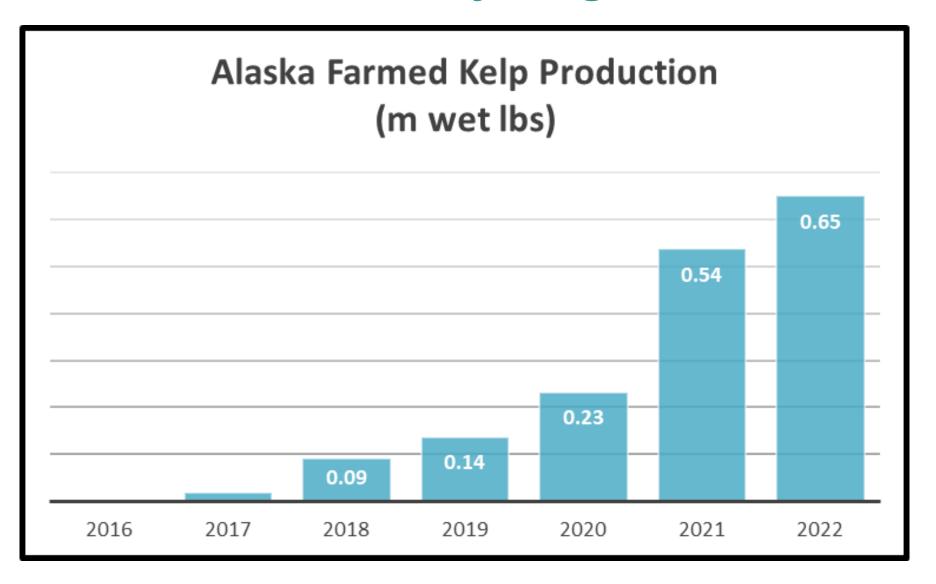
#### Major Funding Secured:

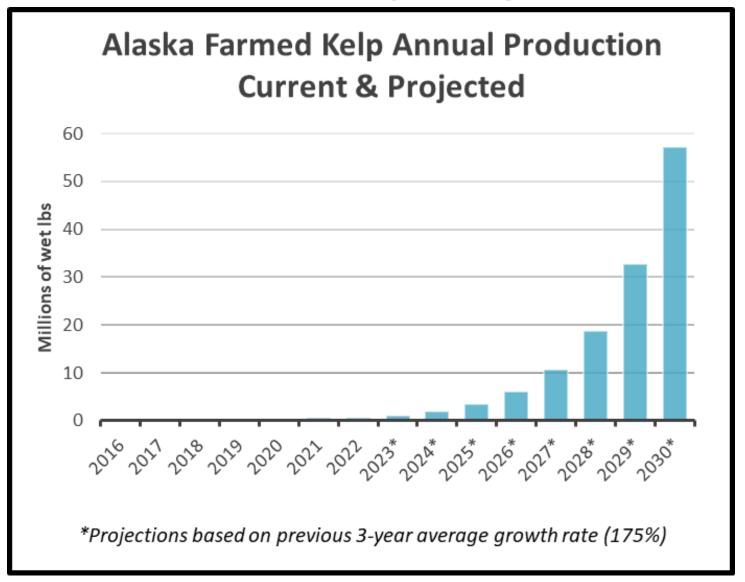
- Key new positions created & filled:
  - NOAA RAC + Mariculture Research Lead
  - UAF assistant professor (seaweed)
  - ASG Mariculture Specialist
  - 5 AK Sea Grant Fellows engaged in mariculture (2022-23)
  - AMA Executive Director (Jason Lessard)
- ARPA-E **\$2.5** million seaweed research
- USDA \$500K for mariculture incubator / processing facility
- EVOS TC \$31.8 million mariculture research
- EDA BBB \$49 million + 20% match
- Legislature \$5 million mariculture matching grant program
- Legislature \$7 million to University for mariculture training

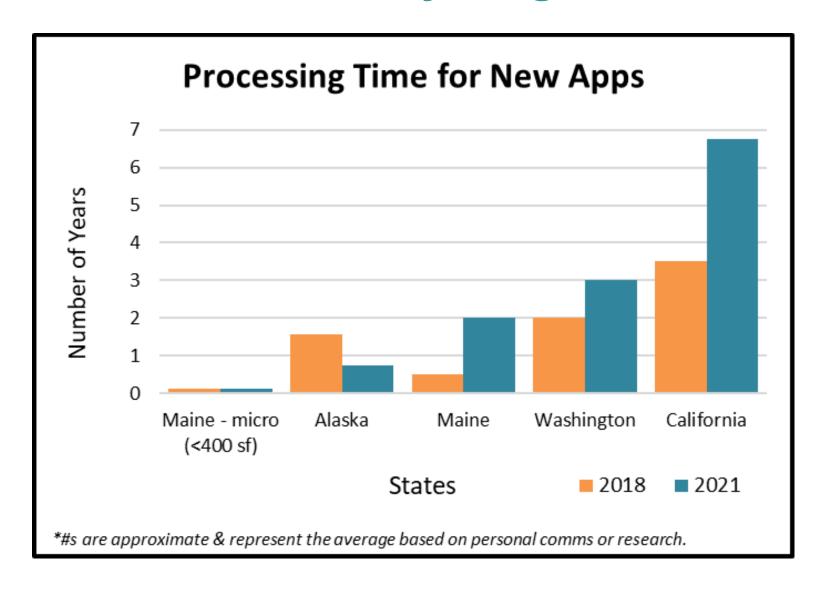
#### MADE IN ALASKA

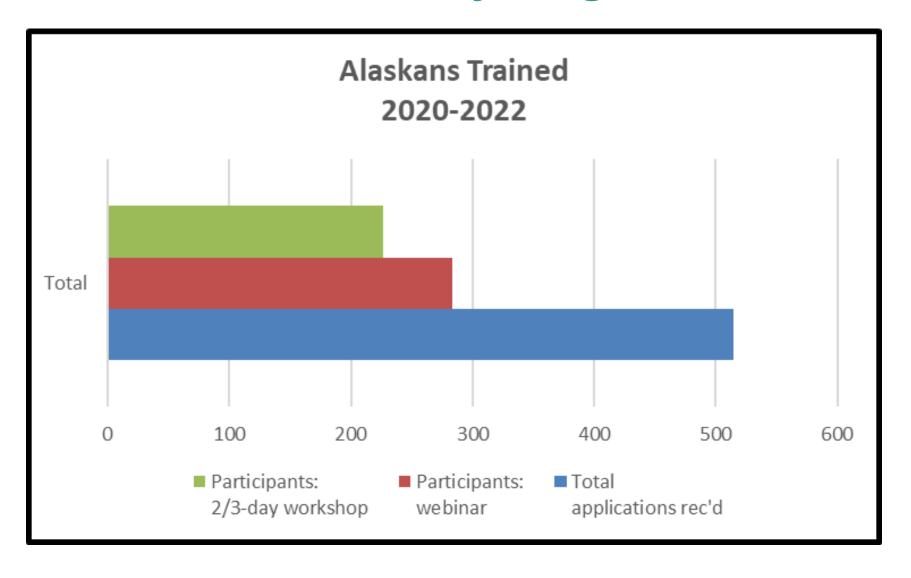
# MARICULTURE



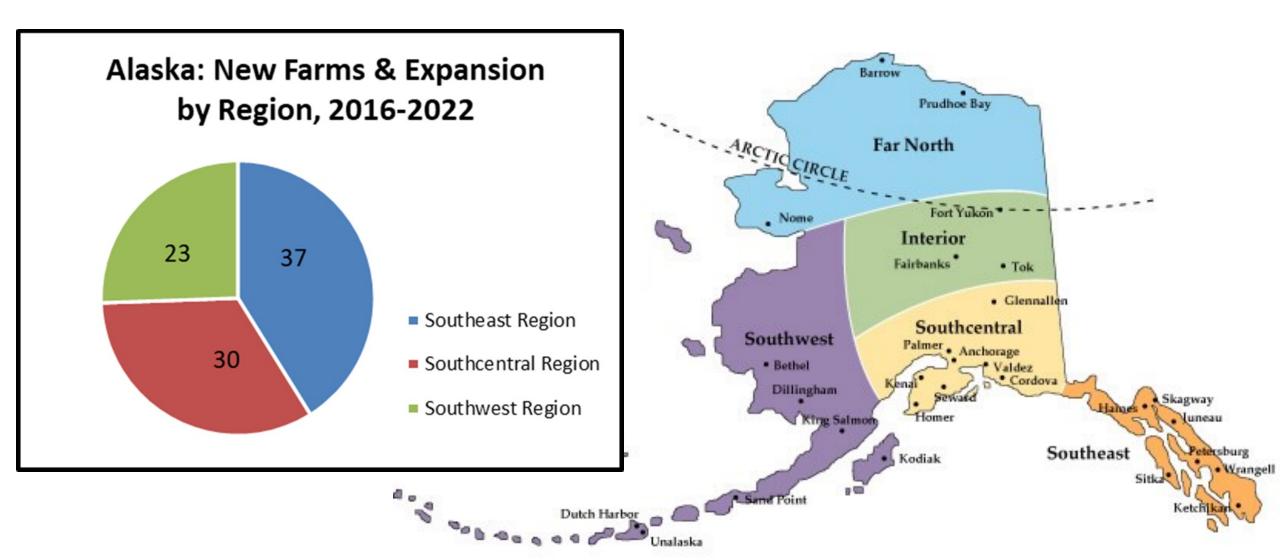








## New Farm Applications (2016-2022) by Region



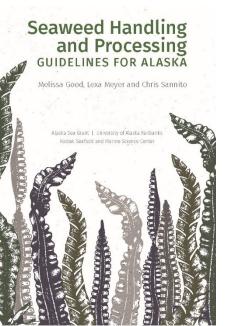
#### Needed - More seaweed buyers/processing

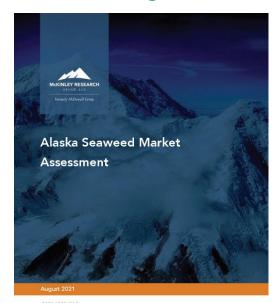
Promote expanded seaweed processing in Alaska: AFDF facilitated site visits

between seaweed processors/buyers and Alaska seafood processors/investors

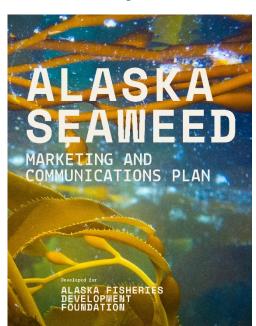
#### **AFDF** commissioned:

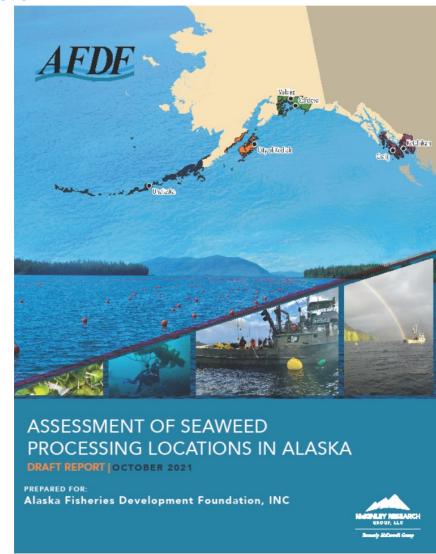
- Alaska Seaweed Market Assessment
- Alaska Seaweed Processing Site Assessment
- Communications & Marketing Strategy
- Alaska Seaweed Industry Expansion Scenarios
- Seaweed Handling & Processing: Guidelines for Alaska



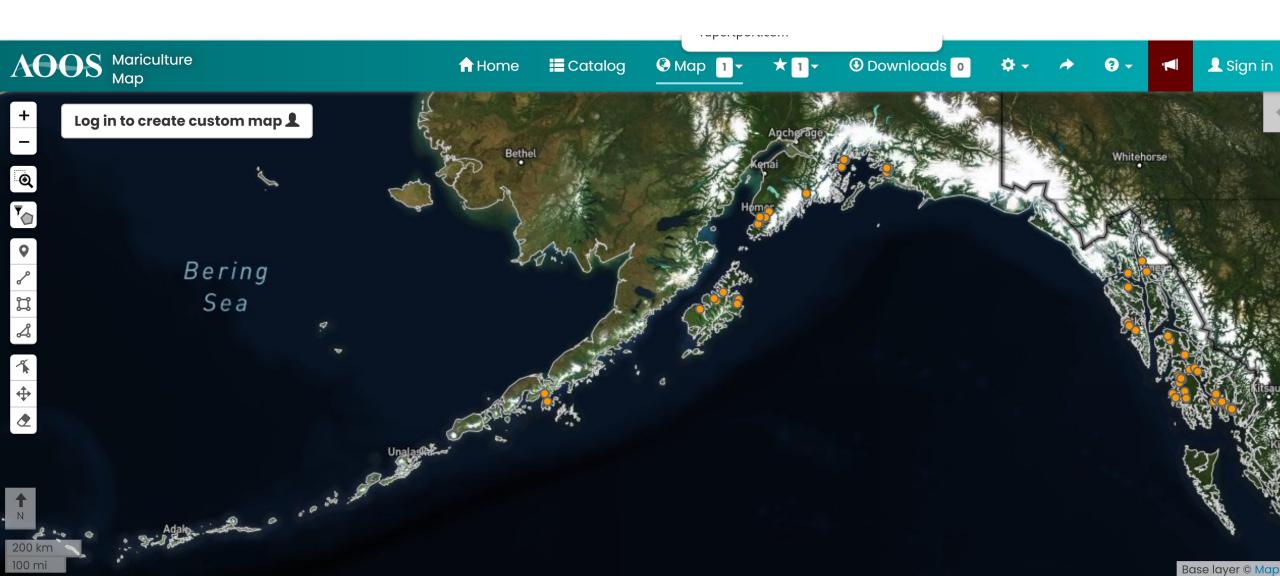


Alaska Fisheries Development Foundation





# Target regions in Alaska





<u>Component Projects:</u> 8 unique yet interdependent projects

**Current Project Total: \$65 million** 

**Revolving Loan Fund \$10 million** 

Governance, Coordination, and Outreach \$3.5 million

**Workforce Development \$10.5 million** 

Research & Development \$9.5 million

Marketing \$1.2 million

**Green Energy \$.7 million** 

Equipment & Technology \$26 million

**Grant Management & Administration \$2.5 million** 

"Develop a viable and sustainable mariculture industry producing shellfish and aquatic plants for the long-term benefit of Alaska's economy, environment and underserved communities"

The state of the s

Industry-led initiative
Equitable opportunities & development:
25% Alaska Native +
25% rural communities

#### **COALITION:**

Southeast Conference (lead),

Kenai Peninsula Economic Development District, Prince William Sound Economic Development District, Southwest Alaska Municipal Conference, Alaska Fisheries Development Foundation,

Alaska Mariculture Alliance, University of Alaska, Alaska Shellfish Growers Association, Alaska Longline Fishermen's Association,

Central Council Tlingit & Haida Indian Tribes of Alaska, State of Alaska



# **Alaska Salmon Industry Model**

- Early 1900's large corporations/canneries owned the fish traps & processing
- 1959 Alaska becomes the 49<sup>th</sup> state, driven by Alaskans reclaiming ownership of salmon & outlawing fish traps (too efficient)
- 1972 Constitutional Amendment passed (by 80%) to allow limited entry
- 1973 Limited Entry Act passed
- 1974 Alaska salmon fishermen (#) were limited; no limitations to processors, except economics
- Other limitations on fishermen: gear, vessel size, areas (cannot fish in more than one area)

#### Evolution of Alaska salmon industry:

- Statewide value = \$715 M ex-vessel, \$1.7 B 1<sup>st</sup> wholesale, 865 M lbs harvested
- commercial fishermen remained small businesses (10,000 commercial fishermen total)
- seafood processors tended toward medium to large businesses (30,000 employees total)
- Larger scale needed for economics in Western AK
- coops tried, mixed results; successes = Icicle, Silver Bay Seafoods, SPC

#### Unintended consequences:

- vessel size did not limit vessel capacity (tripled)
- less fuel efficient & other inefficiencies
- o salmon fishermen cannot move to fishing other regions, climate change will make winners/losers

#### Economics in the Service of Fisheries Policy

Taken from: Marine Resource Economics, 2011

by Susan Hanna, Oregon State University

#### "The failure to understand fundamental economic issues lies at the core of problems with fishery policy and practice."

"Fishery policy is high-level strategic direction; fishery practice is the implementation of policy. Economics education and outreach can strengthen fishery policy and practice, but they are underutilized as an avenue of influence. The position of economics in fisheries can be understood as a value chain, in which a sequence of activities gives economic information greater added value than the sum of the individual activities. The value chain is weakened by the inadequacy of data and by the delivery of education and outreach at levels insufficient to robustly affect policy and management actions. The three primary reasons for this weakness are inadequate investment, unappealing language, and limited exposure."





# USA EEZ: Alaska vs The Rest



