

ALASKA DEPARTMENT OF FISH AND GAME AQUATIC FARMING PERMITTED OPERATIONS STATUS REPORT



CYNTHIA PRING-HAM

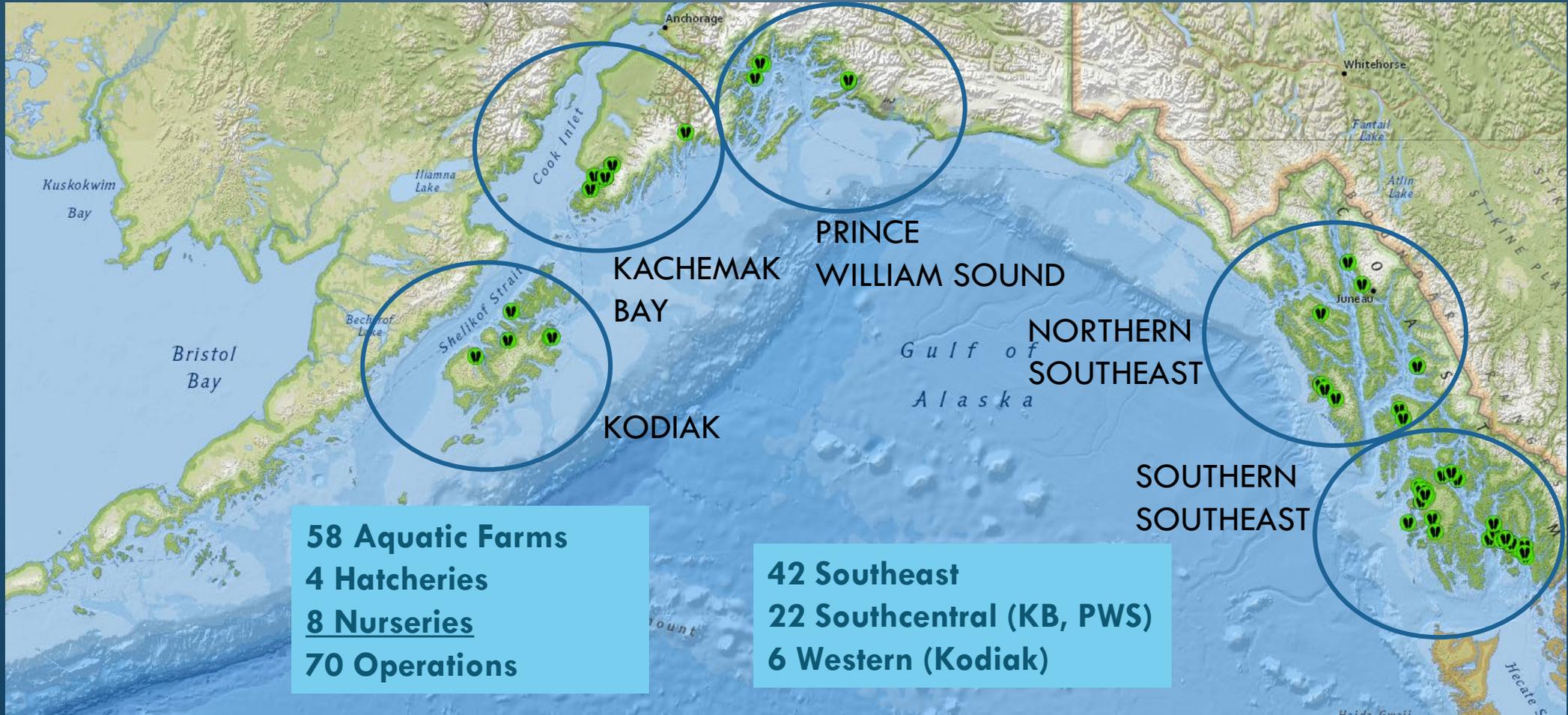
ADF&G AQUATIC FARMING COORDINATOR

ALASKA SHELLFISH GROWERS
ASSOCIATION CONFERENCE

JANUARY 23-25, 2020

KETCHIKAN, AK

AQUATIC FARMING PERMITTED OPERATIONS IN ALASKA



ORGANISMS APPROVED TO CULTURE FOR AQUATIC FARMING PERMITTED OPERATIONS

LIMITED AND NO MOBILITY ORGANISMS

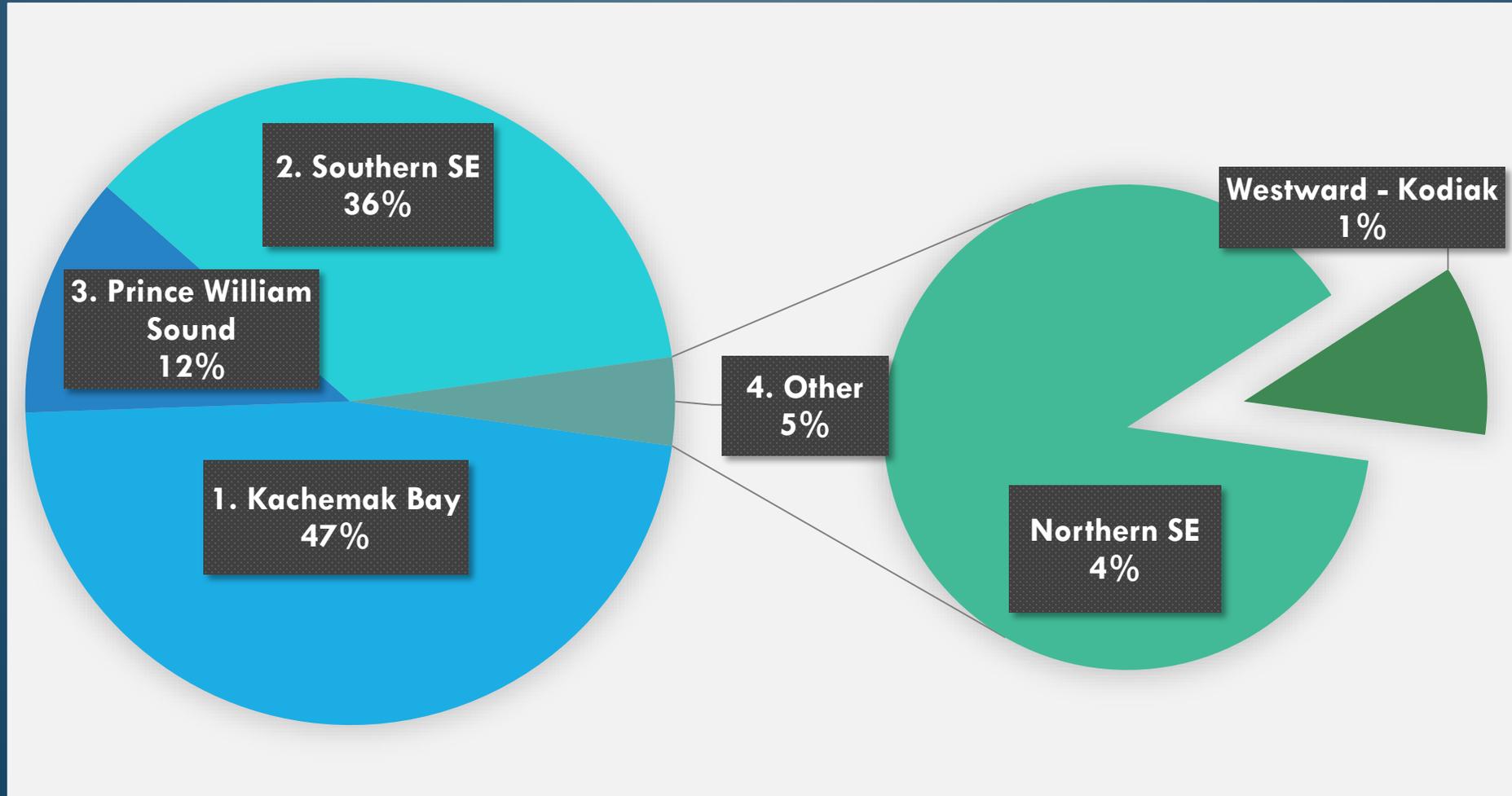
- Bivalves: Pacific oysters*, Geoduck, Blue mussel, Littleneck clam
- Macroalgae: Sugar kelp, Bull kelp, Ribbon kelp, Three-ribbed kelp, Giant kelp, Pyropia sp., and Palmaria sp.

MOBILE ORGANISMS

- Scallop (purple hinged, rock, pink, spiny), Cockles, Sea urchins (red, green, and purple), Sea cucumbers

* Pacific oysters are a non-native species – allowed to be imported into the state from certified sources using Pacific Northwest broodstock.

AQUATIC FARM PRODUCTION REGIONAL DISTRIBUTION



* Based on 2018 Annual Reports from Permitted Operators

AQUATIC FARM SHELLFISH PRODUCTS CULTURED AND SOLD (2018)



PACIFIC OYSTER

(*Magallana gigas*)

~1.9 million produced

26 operations

6% INC



1^o species sold (93.5%)



BLUE MUSSEL

(*Mytilus trossulus*)

1,270 lbs. produced

7 operations

5% DEC



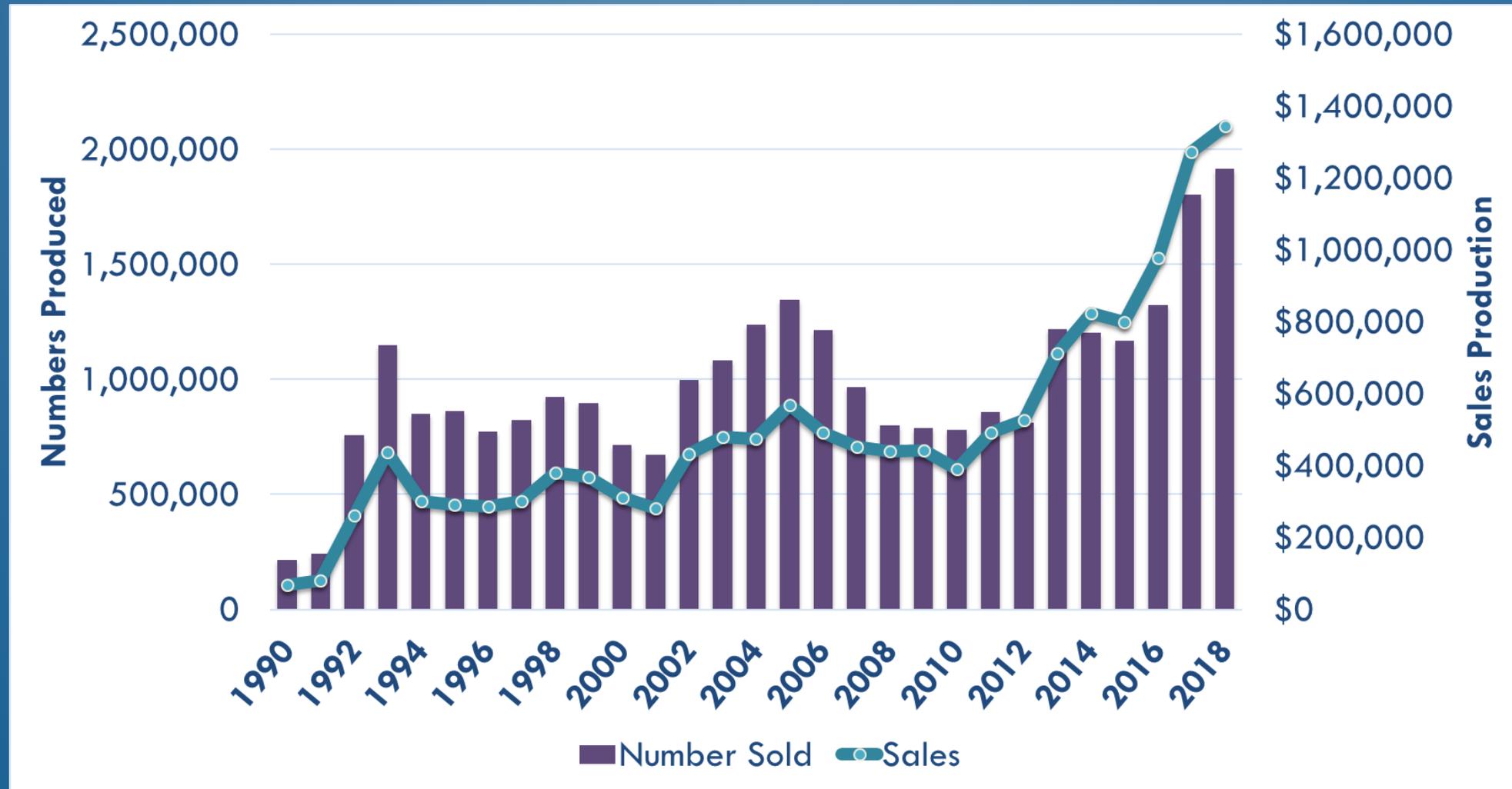
PACIFIC GEODUCK

(*Panopea generosa*)

Confidential

Data based on 2018 annual reports provided by operators

OYSTER PRODUCTION TREND (1990-2018)



OYSTER PRODUCTION

Production Group	No. of Permits in this Range	% of Total Permits	Avg Farm Acreage	Total Production (no. of oysters)	Total Production (no. of oyster dozen)	% of Total Production
1. Small Farms (0 - <100,000 oysters)	20	76.9%	3.80	503,178	41,932	26.3%
2. Medium Farms (100,001 - 332,000 oysters) & Large Farms (> 332,000 oysters)	6	23.1%	12.96	1,411,114	117,593	73.7%
Grand Total	26	100.0%	16.76	1,914,292	159,524	100.0%

* Data based on 2018 Annual Reports from Permitted Operators

Comparison to 2017:
70% Medium & Large Production

AQUATIC FARM AQUATIC PLANT PRODUCTS CULTURED AND SOLD (2018)



SUGAR KELP

(*Saccharina latissima*)



BULLWHIP KELP

(*Nereocystis luetkeana*)



RIBBON KELP

(*Alaria marginata*)

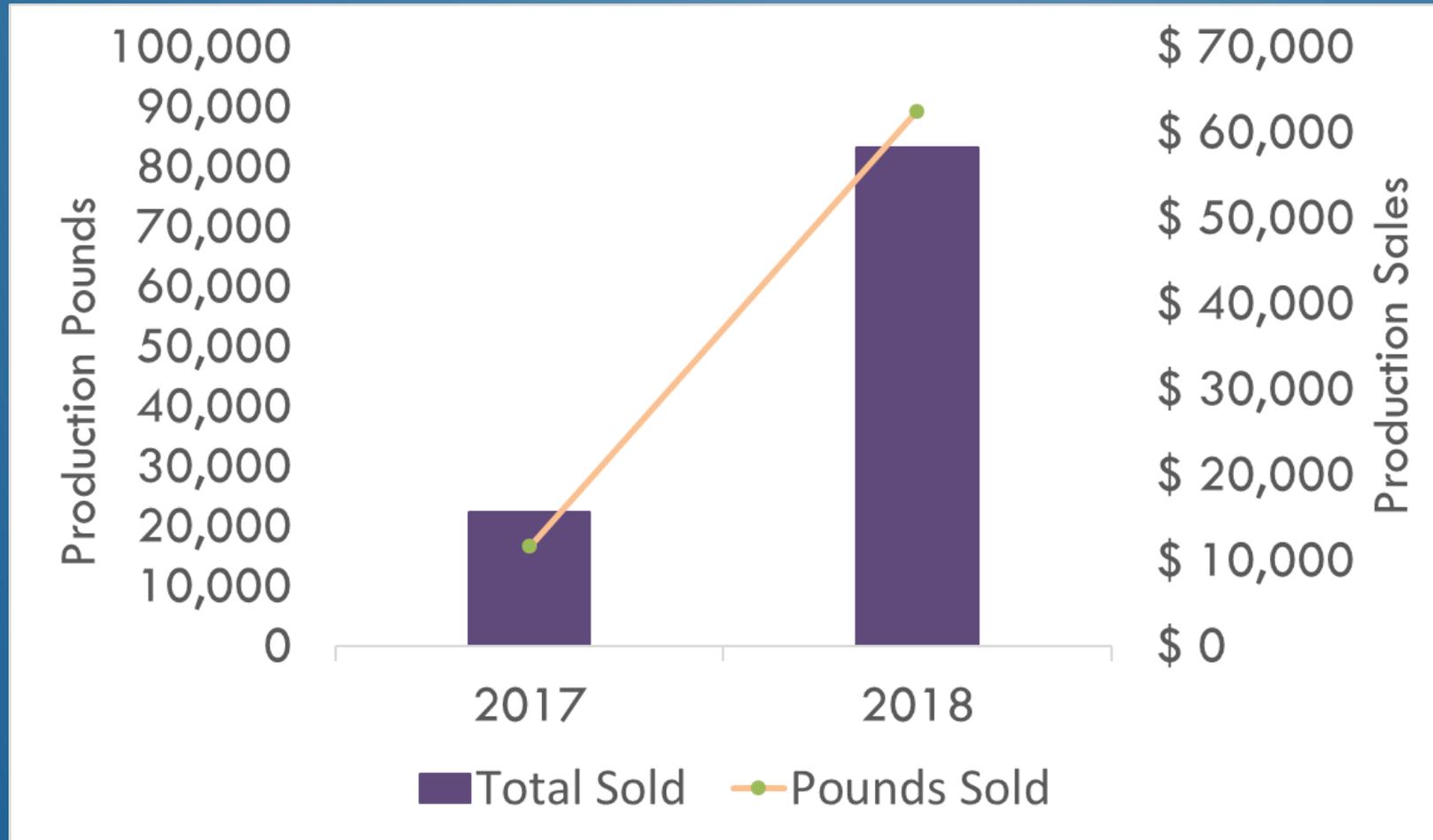
89,279 lbs. produced all 3 species - 6 operations

273% INC



Data based on 2018 annual reports provided by operators

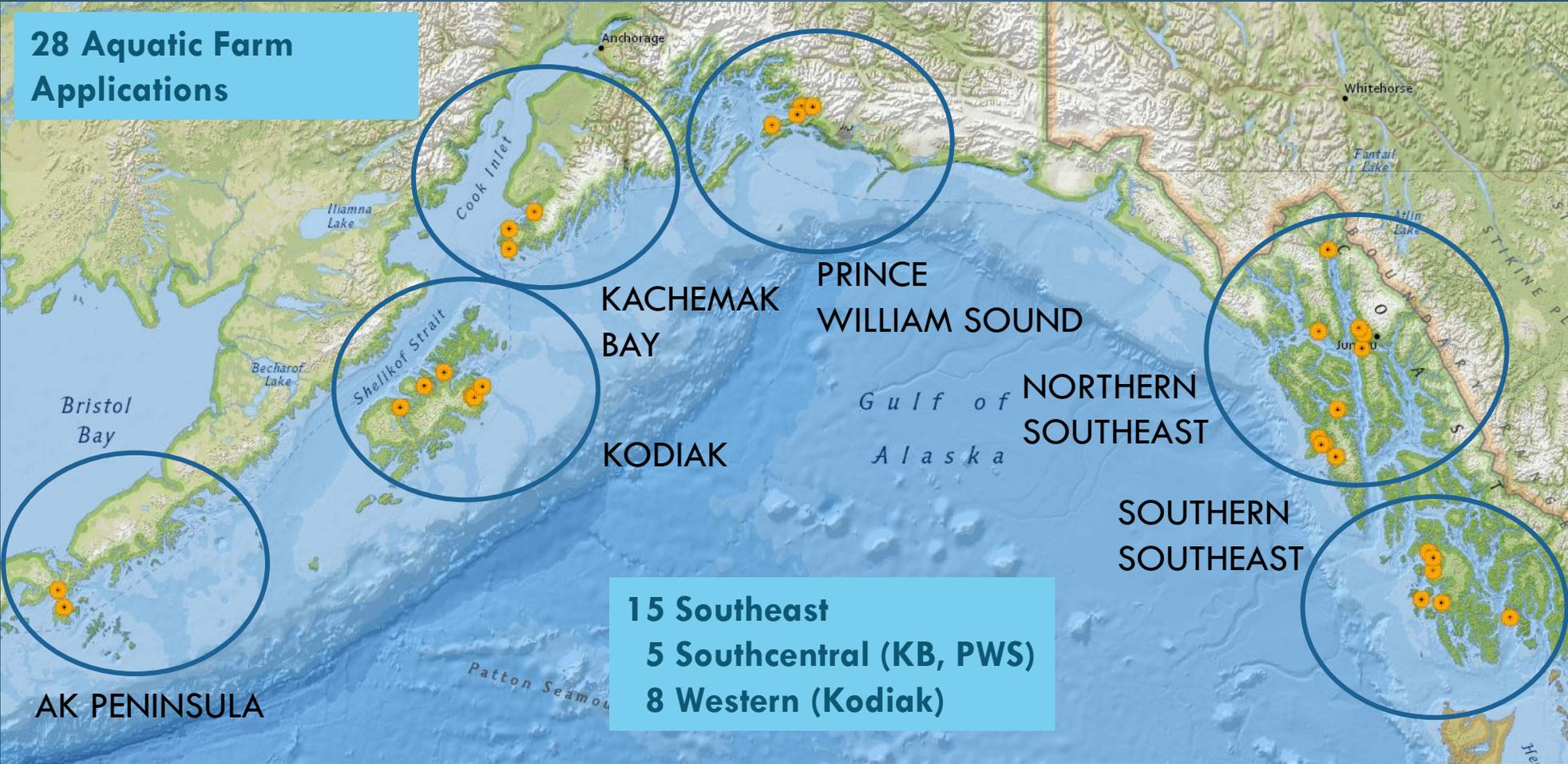
KELP PRODUCTION TREND (2017-2018)



2018 – 89,279 lbs.
2017 – 16,670 lbs.
2016 – Confidential

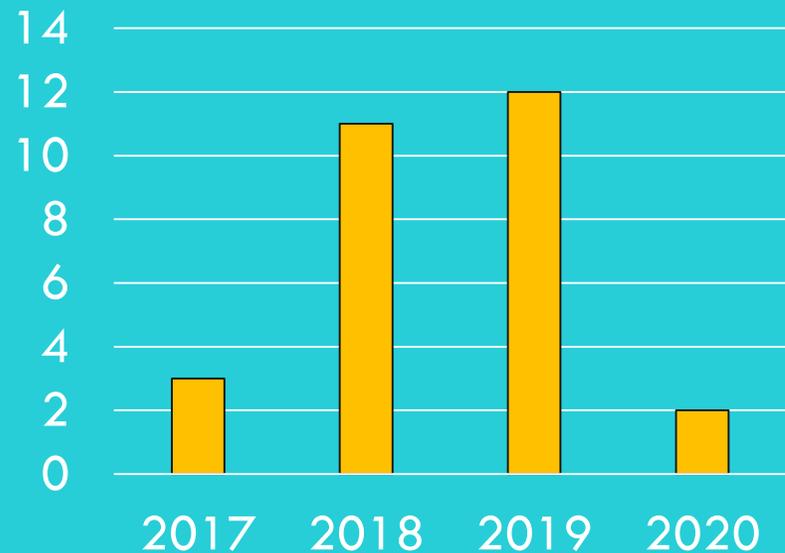
* Data based on
2018 and 2017
Annual Reports from
Permitted Operators

PROPOSED AQUATIC FARMING OPERATIONS AND LOCATIONS IN ALASKA IN REVIEW QUEUE



APPLICATION STATUS

Numbers of Aquatic Farming Applications For New Operations Currently Being Processed



8 – Pacific oyster; 15 – Macroalgae; 5 – Mixed

- Of 28 Aquatic Farm Applications in Queue:
 - 32% Waiting for Applicant
 - 29% Waiting for DNR Lease Process
 - 18% Preliminary Review
 - 18% Agency Review
 - 3% Application to Be Reviewed
- In addition, of 4 Amendment Applications:
 - 50% Waiting for Applicant
 - 50% Waiting for DNR Process

NOTE: Aquatic farm operation permit issued by ADF&G within 30 days after DNR Lease issuance

FEW THINGS TO REMEMBER FOR APPLICATION SUBMITTALS

- Refer to helpful materials on ADF&G web page for *How to apply for an operation permit* at https://www.adfg.alaska.gov/index.cfm?adfg=aquaticfarming.general_opening
- For Operation and Development Plan (ODP), provide one plan for one species to be cultured.
 - Provide species (scientific) name AND common name
 - Refer to page 21-23 of training presentation for brief detail on filling the plan out
- For Project Description use MS Word outline and provide for review
 - For culture method, describe “activities” used from acquiring seedstock up to harvest plus seed stocking schedules.
 - For harvest method, describe “activities” and harvest equipment to use and harvest schedules.
 - For culture gear, describe plans for removal and reinstallation and time period, especially for kelp culture
- For maps: Use ArcGIS Online
- Make sure all numbers, dimensions, and types are consistent throughout application, maps, and plan
- Refrain from major changes after application has been submitted to streamline process
- For all depths (e.g. below bottom of gear or surface to substrate bottom), specify Mean Low Water (MLLW) in ft

PACIFIC OYSTERS IMPORTATION - KUMAMOTO OYSTERS

1. 5 AAC 41.070. Prohibitions on importation and release of live fish

Authority AS 16.05.251 (Board of Fisheries)

(b) Live oysters native to and originating from the Pacific Coast of North America may be imported for aquaculture purposes, under a stock transport permit required by this chapter, and may be released into the waters of the state only if the

- (1) broodstock is derived from oysters commercially cultured on the Pacific Coast of North America through three or more generations; and
- (2) disease history or an inspection indicates no incidence of disease that is not indigenous to the state or is not considered to be a risk to indigenous stocks, and oyster health or marketability.

2. Seed Source Provider must provide documentation to ADF&G showing that the stock to be imported meets items (1) and (2) above.

REMINDER FOR PERMITTED
AQUATIC FARMING OPERATIONS

AQUATIC FARMING ANNUAL REPORT AND SITE-
SPECIFIC REPORTS AND LOGS

DUE JANUARY 31, 2020

QUESTIONS



For additional assistance, please contact:
Aquaculture Section/Commercial Fisheries Division
Alaska Department of Fish and Game
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(907) 465-4724 - michelle.morris@alaska.gov
(907) 465-4325 - garold.pryor@alaska.gov
Fax: (907) 465-4168

General Aquatic Farming email: dfg.dcf.aquaticfarming@alaska.gov

ADF&G:

<http://www.adfg.alaska.gov/index.cfm?adfg=fishingaquaticfarming.main>

APPLICATION:

https://www.adfg.alaska.gov/index.cfm?adfg=aquaticfarming.general_opening