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

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ALASKA SHELLFISH GROWERS
ASSOCIATION CONFERENCE
JANUARY 23-25, 2020
KETCHIKAN, AK
AQUATIC FARMING PERMITTED OPERATIONS IN ALASKA

58 Aquatic Farms
4 Hatcheries
8 Nurseries
70 Operations

42 Southeast
22 Southcentral (KB, PWS)
6 Western (Kodiak)
ORGANISMS APPROVED TO CULTURE FOR AQUATIC FARMING PERMITTED OPERATIONS

LIMITED AND NO MOBILITY ORGANISMS

• Bivalves: Pacific oysters*, Geoduck, Blue mussel, Little neck clam


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

1. Kachemak Bay 47%
2. Southern SE 36%
3. Prince William Sound 12%
4. Other 5%

Westward - Kodiak 1%
Northern SE 4%

* 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
1¹ 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

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

* 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

28 Aquatic Farm Applications

- KACHEMAK BAY
- PRINCE WILLIAM SOUND
- KODIAK
- NORTHERN SOUTHEAST
- SOUTHERN SOUTHEAST
- AK PENINSULA

15 Southeast
5 Southcentral (KB, PWS)
8 Western (Kodiak)
Numbers of Aquatic Farming Applications For New Operations Currently Being Processed

<table>
<thead>
<tr>
<th>Year</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Count</td>
<td>2</td>
<td>12</td>
<td>14</td>
<td>1</td>
</tr>
</tbody>
</table>

- **2017**: 14
- **2018**: 12
- **2019**: 14
- **2020**: 1

**APPLICATION STATUS**

- 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

8 – Pacific oyster; 15 – Macroalgae; 5 – Mixed
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](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:
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General Aquatic Farming email: dfg.dcf.aquaticfarming@alaska.gov

ADF&G:

APPLICATION: