





ADNR Division of Agriculture's role in food production, inspection, and enhancing local food supply.

Commonwealth North Food Security Study Group

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Division of Agriculture: Components



- Marketing, Education& Inspection Services
- ➤ Invasive Species & Pest Detection
- ➤ Agriculture Land
 Sales & Management
- ➤ Agriculture Revolving Loan Fund (Ag Loans)
- ➤ Plant Materials Center

Resources shall:

(1) AS 03.05.010 (a) The Commissioner of Natural direct, administer, and supervise promotional and experimental work, extension series, and agricultural projects for the purpose of promoting and developing the agricultural industry within the state including such fields as horticulture, dairying, cattle raising, fur farming, grain production, vegetable production, and development of other agricultural products;

- AS 03.05.010 (a) The Commissioner of Natural Resources shall:
- (2) procure and preserve all information pertaining to the development of the agricultural industry and disseminate that information to the public;

AS 03.05.010 (a) The Commissioner of Natural Resources shall:

(3) assist prospective settlers and others desiring to engage in the agricultural industry in the state with information concerning areas suitable for agriculture and other activities and programs essential to the development of the agricultural industry in the state;

AS 03.05.010 (a) The Commissioner of Natural Resources shall:

4) review the marketing, financing, and development of agricultural products inside the state including transportation, with special emphasis upon local production, and negotiate for the marketing of agricultural products of the state with federal and state agencies operating in the state;

Market Development / Services



1. Market Development

- 2. Grants
- 3. Industry Support
- 4. Education



Marketing Services – Market Development



Market Development:

- Farmers Market Support
- Community Supported Ag (CSA) Support
- Farm to Restaurant
- Food and Farm Products Directory (FFPD)
- Cooperative Marketing Program (CMP) grant offerings
- Alaska Grown Program

Market Services - Grants





2. USDA Grants

- Federal-State Marketing Improvement Program (FSMIP)
- Specialty Crop Block Grants (SCBG)



Marketing Services – Industry Support





3. Industry Support

- ➤ Director's Newsletter
- **→** Conference Facilitation
- Community outreach
- > Speaking at various agriculture related events
- ➤ Giving out promotional items



AS 03.05.010 (a) The Commissioner of Natural Resources shall:

(5) regulate and control the entry into the state and the transportation, sale, or use inside the state of plants, seeds, vegetables, shell eggs, fruits and berries, nursery stock, animal feeds, remedies and mineral supplements, fertilizers, and agricultural chemicals in order to prevent the spread of pests, diseases, or toxic substances injurious to the public interest, and to protect the agricultural industry against fraud, deception, and misrepresentation; in this connection the commissioner may require registration, inspection, and testing, and establish procedures and fees;

AS 03.05.010 (a) The Commissioner of Natural Resources shall:

(6) regulate the farming of elk in a manner similar to the manner in which the commissioner regulates domestic animals and livestock, to the extent that is appropriate;

AS 03.05.010 (b) To carry out the requirements of this title, the commissioner of natural resources **may issue orders**, **regulations**, **quarantines**, **and embargoes** relating to

- (1) examination and inspection of premises containing products, articles, and commodities carrying pests;
 - (2) establishment of quarantines for eradication of pests;
- (3) establishment of standards and labeling requirements pertaining to the sale of agricultural and vegetable seeds;
- (4) tests and analyses which may be made and hearings which may be held to determine whether the commissioner will issue a stop order or quarantine;
 - (5) cooperation with federal and other state agencies.

INSPECTION SERVICES

- 1. Food Safety Audits: Programs referred to as: Good Handling Practices (GHP) and Good Agricultural Practices (GAP) audit inspections.
- 2. Export Certification Plant Health Inspections
- 3. USDA Grade Inspection and Certification
- 4. Country of Origin Labeling (COOL)







Inspection Services

- 1. Conduct Shell Egg Inspections
- 2. Elk Farm Inspections
- 3. Plant Quarantine Enforcement
- 4. Organic Certification Assistance



Pest Detection - Functions of C.A.P.S

- Confirm the presence or absence of plant pests impacting the domestic and international movement of plants and plant products.
- Provide a distribution profile of plant pests in the U.S. deemed to be of concern to International trade.
- Early detection & rapid response to Exotic Pest infestations.
- Maintain a pest information database to support U.S. Agricultural trade.
- Enhance national communication and education on pests, their life cycles, pathways of transport, and control.



Alaska C.A.P.S. Cooperators:















Pest Detection Surveys in Alaska

INSECTS:

- Gypsy Moth (European & Asian)
- Nun Moth
- Pink (Rosy) Gypsy Moth
- Siberian Silk Moth
- Emerald Ash Borer
- Light Brown Apple Moth

MOLLUSKS:

Exotic Terrestrial Slugs and Snails



Pest Detection Surveys in Alaska

NEMATODES:

- Pinewood Nematode associated with the Monochamus wood borer
- Potato Cyst Nematode
- Golden Nematode
- Nematodes vectors of Tobacco Rattle Virus

DISEASES:

- Sudden Oak Death
- Potato Late Blight

WEEDS:

- Purple Loosestrife
- Illyrian Thistle



Invasive Plant and Agricultural pest program

DOT/PF Right-of-Way

- Canada thistle
- Orange hawkweed

Weed-Free Forage, Straw and Gravel Program

 Increase availability of certified weed-free products

Aquatic Invasive Plants

• Elodea crisis

DOT/PF RIGHT-OF-WAY

Control noxious & injurious invasive plants

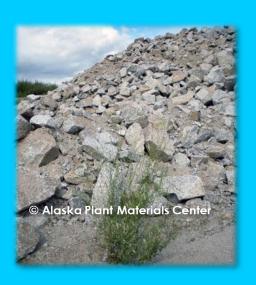




Weed-Free Forage and Gravel

There is a growing demand for the use of certified weed-free forage, mulch and gravel as a preventative program.





AQUATIC INVASIVE PLANTS



ELODEA CRISIS

Elodea easily spreads through fragmentation





MANAGEMENT ACTIVITIES

Preventative actions

• MOU, ADF&G Executive Order

Outreach and education

• Presentations, signage, pamphlets

Collaboration

Interagency task forces

Active management

Multiyear projects

Northern Latitude Plant Materials Center – Palmer (PMC)





- Cultivar Developments
- > Research and development for re-vegetation
- ➤ Potato Production and development
- ➤ Grow grass seeds for DOT

PMC Mission: To promote Alaskanproduced agricultural crops for use in re-vegetation and seed production

AS 03.22.020 Purpose of the center. The objectives of the plant materials center, in cooperation with the Institute of Agricultural Sciences, are to:

- 1. Assemble, evaluate, select, and increase plant materials needed in soil and water conservation, agriculture, and industry, and maintain genetic purity of these materials;
- 2. Increase promising plant materials for field scale testing;
- 3. Test the promising materials in field plantings on sites that represent soil and climatic conditions not found at the center;
- 4. Maintain and provide for increase of basic seed stocks of plant materials for agricultural and conservation interests;
- 5. Make seed and plant materials available, for a fee if necessary, in such a manner as to avoid monopolistic control of basic stocks of these materials and encourage the development of a seed industry;
- 6. Support but not duplicate activities carried on by state or federally funded research programs in the state;
- 7. Prepare, publish, and disseminate a summary report on all studies as they are completed.





The primary activities of the PMC are

- Conservation Plant Technology
- Native Plant Evaluation
- Foundation Seed
 Grass / Grains / Potatoes / Native Plants
- Alaska Seed Growers' Assistance
- Ethnobotany Research
- High Latitude Germplasm
- Certified Seed Laboratory
- Revegetation / Reclamation
 Research and consultations
- Invasive Species Management
 Land and Water Plants

Plant Materials Center Advisory Board

- Board is comprised of several members differing in background, from farm service providers, research related companies, and farmers.
- Meet together with the PMC staff once a year to review project developments and progress





Seed Programs and Seed Lab

- Foundation Seed Program:
 - PMC is the only source of initial seed stock for plants native to Alaska
- Certified Seed Potato Production
 - Industry requested and driven
 - Provides pathogen-tested seed potatoes to certified seed growers
 - Seed is propagated by seed growers and sold to table stock growers
- > State Seed Lab (the only official lab in Alaska)
 - Provides testing for germination, purity & disease to:
 - Seed producers
 - Retailers
 - Buyers
 - Agencies



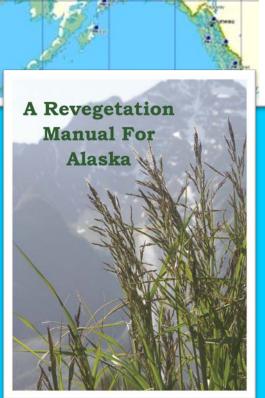


PMC Programs

- > Advanced Evaluation Plantings
- Revegetation
 - A Revegetation Manual for Alaska
 - Presentations
- **Education**
 - Teachers
 - Children
 - Public/Special Groups
- Website
 - Native Plant Directory
 - Revegetation Manual
 - PMC Publications







Agricultural Revolving Loan Program

Objective:

➤ Promote the more rapid development of agriculture as an industry throughout the State by means of long-term low-interest loans. (A.S 03.10.010) Short-term – operating loans

➤ Loans Available

- Chattel to purchase equipment or livestock
- ➤ Farm development to purchase real property for agricultural development
- Irrigation to purchase and install systems
- Product Processing to build and equip facilities for processing Alaska Ag products
- Clearing for land clearing.
- Raising/care of animals for the purpose of marketing their fur

BAC Board Structure and Function

Statutorily established in AS 03.09.010

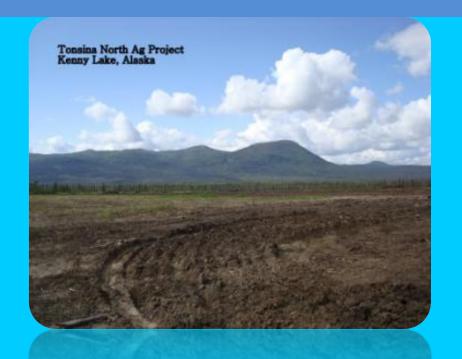
Structure:

- 7 members appointed by the Governor
- Varying agriculture experience and background
- Serve staggered 3 year Terms

Function

- Oversight of the Agriculture Revolving Loan fund
- Authorize the disposal of agricultural property acquired by ARLF
- Approve and administer agricultural loans
- Recommend land suitable for agriculture classification

Land Management





Land AS 03.05.010 (a) The Commissioner of Natural Resources shall

(3) assist prospective settlers and others desiring to engage in the agricultural industry in the state with information concerning areas suitable for agriculture and other activities and programs essential to the development of the agricultural industry in the state

Land Management

Land Management

- **►** Land Sales
- ➤ Grazing Leases
- **≻**Mapping





Land Management – Land Sales

Strong public interest continues in agriculture land sales

Land Sales

- ➤ Identify areas suitable for agricultural development
- ➤ Works cooperatively with other agencies





Land Management –Grazing Management & Mapping

- Grazing Management
 - Work with producers to identify problems
 - Work with NRCS
 - To identify new grazing areas
 - To identify concerns on leases
 - Identify Solutions
- Mapping of grazing lease improvements
- Geographic Information System (GIS)
 - Soil Maps
- > Field Investigations
 - Global Positioning System (GPS)





Alaskan Agriculture



Crops

Primary Crops Produced in Alaska

Root, Tuber and Bulb Crops

 i.e. potatoes, beets, carrots, parsnips, turnips & onions

Other Crops Include:

 broccoli, cauliflower, celery, corn, barley, oats, rye, & wheat

Some Fruit Crops Include:

blueberries, currants,
 strawberries, gooseberries,
 raspberries, rhubarb





Dairy & Eggs





Available Alaska Dairy and Egg Products

Cheese - Cow & Goat, Milk - Cow & Goat, Ice cream

Due to high grain and energy costs, it is financially difficult to feasibly operate a dairy operation in AK.

Eggs are available to the public, but typically it is small farm production, where you would purchase at point of production.

Nursery – Ornamental and Garden Plants

There are many nurseries in Alaska, some large and many smaller that are family run.

You can find nursery products at Farmers Markets or you can visit them directly on their farm.

Nursery crops are most often produced in a greenhouse.





Livestock



- Elk
- Bison
- Goat
- Lamb
- Pork
- Poultry
- Rabbit
- Reindeer
- Yak

Some livestock is grown for meat, other livestock is grown for byproducts such as wool, pelts, fibers, & antlers.



Aquaculture





There are 3 Shellfishes that are farmed in Alaska – Clams, Mussels & Oysters

This must be done in a natural habitat, but not where wild shellfish exist, and they must be actively farmed.

Kelp production is in early stages of development

What is "Hemp"?

AS 03.05.100 (5), defines industrial hemp as "all parts and varieties of the plant Cannabis sativa L. containing not more than 0.3 percent of delta-9-tetrahydrocannabinol (THC)."



What is "CBD"?

CBD is short for cannabidiol, one of the compounds found in cannabis plants. It can be processed in many different kinds of applications including oils.



DIVISION OF AGRICULTURE AUTHORITY

SB 6 (Ch 5, SLA 2018)

- To create an Industrial
 Hemp Pilot Program to
 research the growth,
 cultivation, and marketing
 of industrial hemp
- 2) To promulgate regulations necessary to implement the program





PROGRAM CHALLENGES -CBD PRODUCTS-

CBD- Related Product Manufacturing and Sales

• The Division of Agriculture has identified over 300 CBD "manufacturers" and over 1000 retail sales establishments in the Anchorage/Mat Su Area. These products are intended for animal and human consumption.

• Getting these processes/products into a legal status will be a

top priority.



Program Challenges -Resources-

- Division of Ag currently lacks adequate staff to meet all hemp program needs. We would need additional direct services staff for both PMC and regulatory work.
- Division of Ag estimates it will require receipt authority of approximately 500.0 GFPR per year.
- SB6 mandates industry pay for program-related services, requiring Division to have receipt authority.
- The program could start halfway through the fiscal year, then ramp up.

PROGRAM CHALLENGES



Program Coordination

 This program has elements that need to be coordinated with Law Enforcement and the Marijuana Control Board.

Statutory Changes required by 2018 Farm Bill.

 Alaska statutory changes will be necessary in order for Alaska's program to be federally compliant.

QUESTIONS?



Thank you on behalf of the Division of Agriculture!

