

**BURN NATURAL
GAS AND IT WARMS
YOUR HOUSE.
BUT LET IT LEAK,
FROM FRACKED
WELLS OR THE
MELTING ARCTIC,
AND IT WARMS THE
WHOLE PLANET.**

GOOD GAS BAD GAS

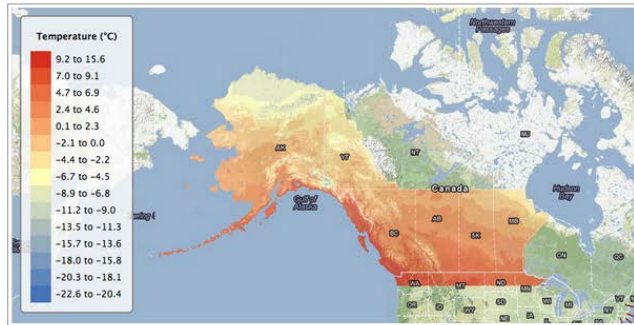
Methane is bubbling from lakes all over the warming Arctic. Here ecologist Katey Walter Anthony (right) ignites a large bubble that was trapped by the fall freeze—then freed by an ice pick.

Climate Visualizations

SNAP is striving to implement useful climate data visualizations that make sense. The new map tool, with its interactive titles, forms the basis for future data and mapping enhancements.

[open the map >>](#)

1 2 3 4 5 6



Community Charts

To load a chart, type your community's name:

Type your community...

Data Set

Units

Emissions Scenario

Inter-Model Variability



In cooperation with:



SNAP has created charts for communities in the area shown above.

SNAP

We develop plausible [scenarios](#) of future

What we do

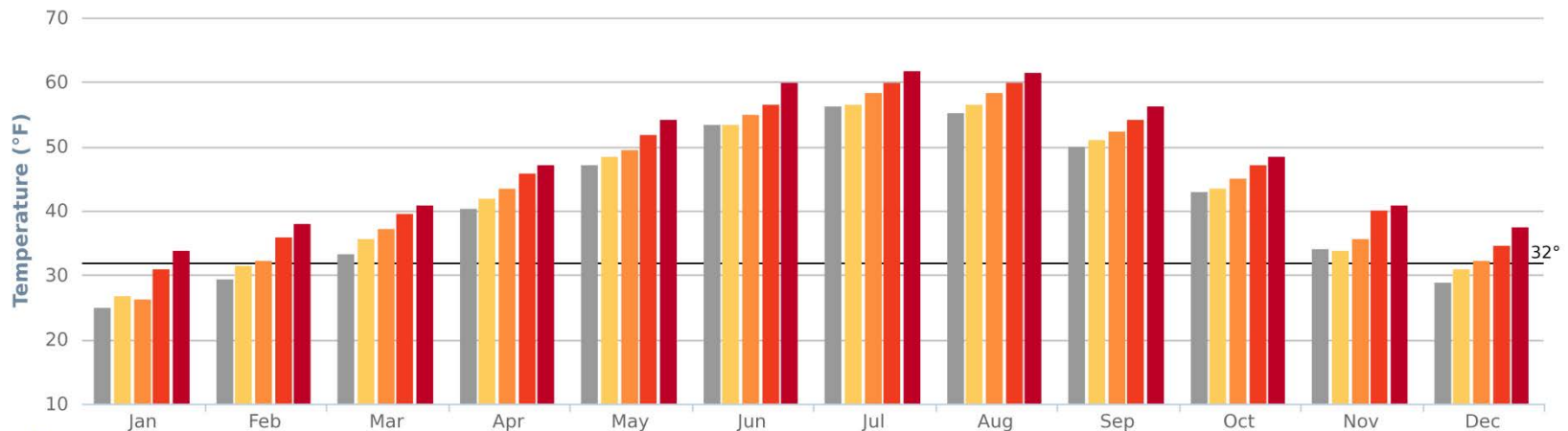
SNAP is all [about](#) helping people plan in a changing climate. We work with a wide range

www.snap.uaf.edu

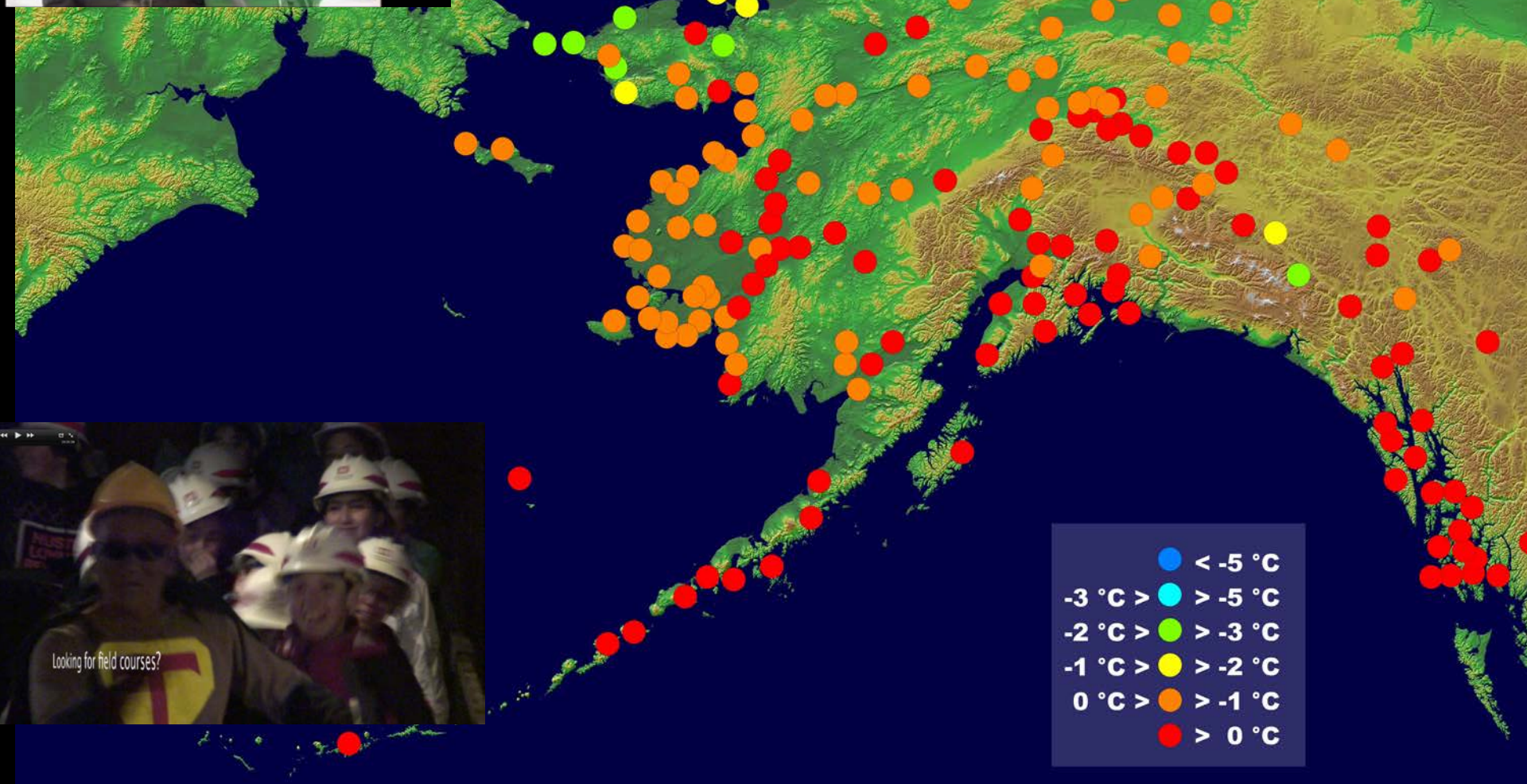
Average Monthly Temperature for Juneau, Alaska

Historical PRISM and 5-Model Projected Average, Mid-Range Emissions (A1B)

1961-1990 2010-2019 2040-2049 2060-2069 2090-2099



Annual Mean ground surface temperature in Alaska







Alaska Sea Grant Marine Advisory Program

presentation to the UA Board of Regents, June 6, 2013



Dave Christie • Director
Gay Sheffield • Nome
Sunny Rice • Petersburg
Terry Johnson • Anchorage

Alaska Sea Grant origins



- 1970 -- First Sea Grant funding nationwide
- 1975 -- Marine Advisory Program established at UAF – independent of Sea Grant
- 1980 -- Alaska Sea Grant College Program status
- 1987 – ASG incorporated into newly formed School of Fisheries and Ocean Sciences



Alaska Sea Grant Today:



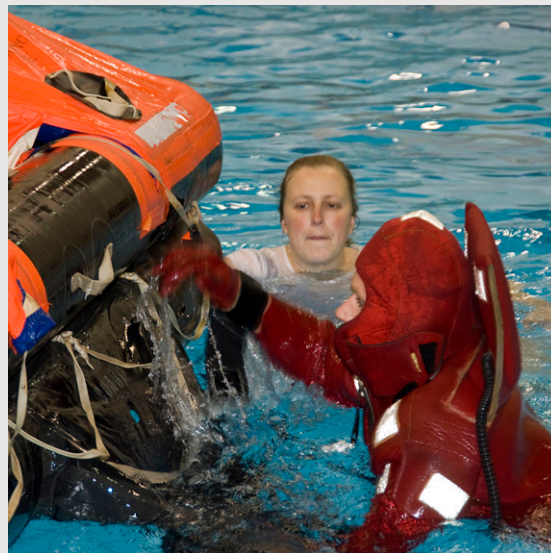
- Partnership: NOAA and university
- 32 Sea Grant programs
- Alaska Sea Grant administered by UAF through the School of Fisheries and Ocean Sciences
- \$6.5M annual budget; \$1.5M NOAA, \$2.5M state funds and \$2m+ leveraged projects



Alaska Sea Grant



- local needs
- national priorities
 - Healthy Coastal Ecosystems
 - Sustainable Fisheries and Aquaculture
 - Resilient Coastal Economies
 - Environmental Literacy and Workforce Development



Alaska Sea Grant supports coastal communities around the state through:



- **Research** focusing on impact to coastal communities and/or ecosystems
- **Education** – K-12, graduate fellowships
- **Extension** – Marine Advisory Program



Marine Advisory Program

- 14 faculty in 9 communities across the state
- Partnerships critical to our work
- Over 30 grant-funded projects — state, federal, municipal, private industry, Alaska Native organizations



MAP -- focused on Alaska's coastal communities and issues

- Leadership and capacity building
- Arctic marine transportation
- Invasive species
- Fisheries and marine mammals
- Climate change adaptation
- Seafood safety and product development
- Fuel and energy costs
- Economic development/diversification
- Marine education
- Graying of the workforce



MAP – Partnerships across the state

Invasives/PSP – ADF&G/ADEC/Smithsonian

Shellfish farming – OceansAlaska, Alutiiq tribe, SeaAlaska

Sea otter research – local commercial and subsistence fishermen, USFWS, ADF&G

UA's Fisheries Seafood Maritime Initiative



Introducing three MAP faculty

- Gay Sheffield, Nome marine advisory agent
- Sunny Rice, Petersburg marine advisory agent
- Terry Johnson, recreation and boating specialist



Alaska Sea Grant Marine Advisory Program

Bering Strait Maritime Symposium

The summer of 2011 saw a record 33 ships carrying 850,000 tons of cargo on the Northern Sea Route, which runs along Russia's northern coast and through the Bering Strait. Bigger ships—and more vessels of all sizes—are not just on the horizon but already in the waters of the Bering Strait, taking advantage of decreasing sea ice to move to and from the Bering and Chukchi seas. In this same region, more than 85 percent of local subsistence-harvested resources are marine-derived. Communities along the proposed shipping corridor in the Bering Strait have many concerns about increased maritime activity and its potential impacts on their region. They are hungry for information on vessel traffic, safety standards, oil spill response, and the impact of increased traffic on marine mammals. But they have not had access to the agencies and experts who might be able to inform them.

In February 2013, Gay Sheffield, Marine Advisory agent in Nome, organized a two-day conference that connected tribal and city government representatives from the region with experts from the U.S. Coast Guard, NOAA, the U.S. Fish and Wildlife Service, and the Alaska Department of Environmental Conservation. More than 60 people from the region attended the conference. Evaluations and informal feedback received after the event indicated that participants found the information and contacts to be extremely useful, and most respondents said they were very likely to change their involvement with Bering Strait maritime issues as a result of attending the conference.

Topics and presentations included

- Bering Strait maritime overview
- Large vessel traffic
- Proposed shipping routes
- Safety standards for large vessels
- Oil spill response
- Search and rescue/emergency response
- Charts and mapping
- Sikuliaq* research vessel
- Automated Identification System (AIS) and public access to large vessel monitoring
- Marine Mammal Coalition to address ship traffic



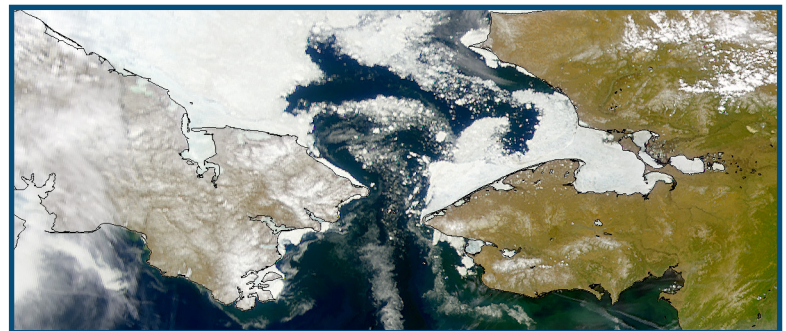
Bering Strait Maritime Symposium participants. Photo by Karlin Itchoak, Institute of the North

Sponsors and supporters

- Alaska Sea Grant
- University of Alaska Fairbanks Northwest Campus
- Kawerak Inc.
- Pew Environment Group

Major funding provided by

- National Sea Grant NOAA Regional Team Collaboration Grant



Satellite image of Bering Strait. Image provided by SeaWiFS Project, NASA/Goddard Space Flight Center, and ORBIMAGE; available at <http://visibleearth.nasa.gov/>

Alaska Sea Grant Marine Advisory Program

Fuel Efficiency for Commercial and Recreational Vessels



Photo by Kurt Byers, Alaska Sea Grant



Photo by Terry Johnson, Alaska Sea Grant Marine Advisory Program

Marine fuel prices spiked in 2008, sending a ripple of panic through the commercial fishing industry and triggering a decrease in recreational boating activity. Though prices decreased the following year, a gradual upward trend continues, particularly acute in remote Alaska. The Marine Advisory Program (MAP) conducted a fishing industry survey in 2008 and found a high level of concern about the effects of fuel prices on the viability of Alaska fishing businesses, and at the same time learned about a variety of creative responses by fishermen. That same year MAP began its Vessel Fuel Efficiency program with posters and tip sheets on ways to save fuel.

Terry Johnson, MAP recreation and boating specialist, was asked to serve on the steering committee and be a moderator and presenter at the NOAA and FAO sponsored International Symposium on Energy Use in Fisheries in 2010. Afterwards he was asked by fishing groups to bring the relevant content back to the industry in Alaska. He began developing more detailed publications and started doing workshops around the state. MAP's vessel fuel efficiency web page has a growing number of links.

A fishing vessel energy self-audit tool is now being developed by MAP in a cooperative project with the Alaska Fisheries Development Foundation, Alaska Marine Conservation Council, Alaska Longline Fishermen's Association and United Fishermen of Alaska. MAP is now a collaborator with AFDF in a legislatively-funded \$250K initiative to conduct energy audits on fishing vessels and produce an Energy Efficiency Management Plan for each class of vessel. MAP is partner on another AFDF proposal for funding to test energy efficiency boosting technologies.

Publications and organizations that have reported using the MAP fuel efficiency material include:

Anchorage Daily News, Alaska Fisheries Development Foundation, Alaska Longline Fishermen's Association, Alaska Marine Conservation Council, Coastal Enterprises Institute - Maine, Cook Inlet Keeper, Great Lakes Boating, Maine Fisherman's Forum, Massachusetts Dept. of Energy Resources, National Fisherman, North Carolina Sea Grant, Pacific Fishing, United Fishermen of Alaska, University of New Hampshire, Western Mariner (Canada)

Evaluation

Fuel efficiency workshops evaluations indicate that 70% of participants found the information "quite" or "extremely" useful, and more than half said they "possibly" or "very likely" would make changes to their fishing operations based on what they learned. Ongoing evaluation will be built into fuel efficiency vessel audits.

Alaska Sea Grant Marine Advisory Program

Preventing Whale Entanglement

Whale Entanglement Wheelhouse Guide for Commercial Fishermen

Alaska Marine
Mammal Stranding
Network
24-hour hotline

(888)
774-7325

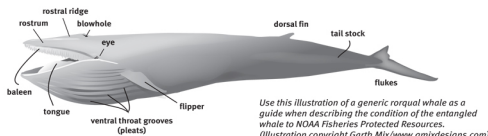
If you encounter a whale while fishing:

Avoid entanglement. See tips on reverse to prevent whales from becoming entangled in your fishing gear.

If a whale is entangled, assess the situation. First, assess the safety of yourself and your crew. Maintain a safe distance from the whale at all times. If your vessel is attached to the animal (e.g., seine or drift net fishing), determine if it is possible to safely help the whale free itself.

Free your vessel. Remember that entangled animals can be dangerous and unpredictable. Stay at least 25-50 feet away (one whale-body length). If you must free your vessel from the animal, and it is safe to do so, cut your fishing gear to leave 25-50 feet attached to the whale. Put a large buoy bag on the gear attached to the whale. This will make it easier for NOAA Fisheries to track the animal and possibly disentangle it later.

Call NOAA Fisheries Protected Resources at (907) 586-7235 (weekdays) or by using the Alaska Marine Mammal Stranding Network hotline above (nights and weekends) if you are unable to free the animal. Provide information on your exact location; sea conditions; species, size, and condition of the animal and its ability to surface to breathe; and type of gear and how the animal is entangled. This will help the agency determine whether or how to assist in disentanglement. Take pictures, if you have time and can do so safely, to help disentangle later.



Report the incident to the NOAA Fisheries Marine Mammal Authorization Program. You can get the appropriate form from local enforcement or from the NOAA Fisheries website at <http://alaskafisheries.noaa.gov/protectedresources/observers/mmamform.pdf>. Your Marine Mammal Authorization allows for the legal "incidental take" of marine mammals in the course of commercial fishing. You must, however, report any incidental injuries or mortalities to marine mammals within 48 hours of the end of your fishing trip.

! Do not get in the water with the whale or approach a free-swimming entangled animal.

The Whale Entanglement Wheelhouse Guide created by the Petersburg working group was distributed to all drift gillnet and seine permit holders in Southeast Alaska



The Fumunda F3 whale pinger is designed to alert passing humpback whales to the presence of nets

Background

The humpback whale population in Alaska has been increasing by 6-10% per year. As their numbers have increased in Southeast and Southcentral Alaska, so has the potential for interaction with commercial fishing gear, including that used in salmon net fisheries. Humpback whales are not attracted to fishing nets, but may accidentally encounter them during feeding or travel, breaking through the net and causing expensive damage, and occasionally becoming entangled. Entanglements can endanger both the whale and the fisherman.

Initial Response

In October of 2006, at the request of a small group of Petersburg fishermen and the Petersburg Marine Mammal Center, Petersburg MAP agent Sunny Rice convened a meeting to discuss what appeared to be an increasing number of entanglements and what might be done to prevent them. This led to the formation of a working group consisting of the Petersburg Marine Mammal Center, Petersburg Vessel Owners Association, National Marine Fisheries Service staff, and additional local fishermen. This group initiated three main efforts:

- bringing NMFS staff to town to conduct training for area fishermen in how to respond to whale entanglements,
- designing and publishing a "wheelhouse" guide describing how to respond, as well as tips on ways to avoid entanglements
- partnering with MAP marine mammal specialist Kate Wynne, to begin research on how to prevent encounters in the future.

At the same time, Wynne and Bree Witteveen began working on a parallel response in the Kodiak area, conducting disentanglement trainings and conducting outreach and education on preventing whale entanglements.

Ongoing Response

Drawing upon her experiences with pingers used in fisheries to prevent entanglements with porpoises on the East Coast, Wynne initiated research using pingers developed in Australia to deter humpbacks from encountering shark nets around the Great Barrier Reef. In addition to conducting acoustic tests of the pingers in Alaska waters, Wynne and Witteveen distributed several prototype pingers to fishermen in the Kodiak and Petersburg areas. They were positively received by the fleet, and, as a result, a Juneau-based gear shed began distributing whale pingers in Southeast and Southcentral Alaska last summer, and the number in use is growing. An ongoing research project will include distributing logbooks to collect in-season observations from fishermen using pingers, and collecting survey information from fishermen using pingers at the end of the season.



Cooperative Extension Service:
Reaching Out to
Communities

Cooperative Extension Service: Reaching Out to Communities

What Is Extension?

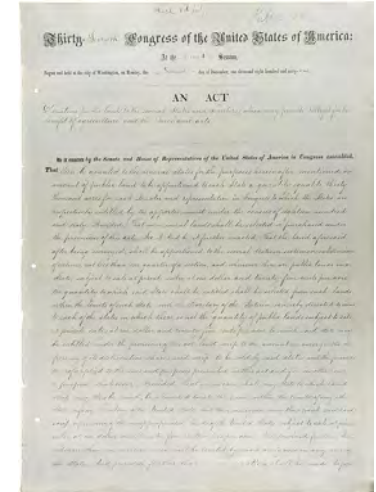
- The Cooperative Extension Service is an educational network supported by a partnership between the U.S. Department of Agriculture and more than 100 land-grant universities such as the University of Alaska Fairbanks.

A Land-Grant Institution

- The Morrill Act of 1862 established the land-grant system of public colleges and universities, making education available to all people in search of higher education.
- The act provided states and territories with land to support colleges dedicated to the “liberal and practical education” of the people.

Mission Statement

- Cooperative Extension educates, engages and supports the people and communities of Alaska, connecting them with their university. We provide factual and practical information while bringing Alaskans' issues and challenges to the university.





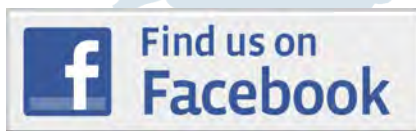
Cooperative Extension Service: Reaching Out to Communities

Who Does Extension Serve?

- Extension serves more than 85,000 adults and youth directly through workshops, presentations and consultations.
- Extension has more than 1 million contacts with adults and youth indirectly through newspapers and newsletters.

How Does Extension Reach Out to Communities?

- Extension has district offices in nine Alaska communities. Agents deliver programs in person and on an extensive videoconference network and answer questions by phone and email.
- Information is also available through Extension publications, interactive online lessons, DVDs, radio and television programs, newsletters and newspaper articles, and Facebook, YouTube and Twitter.



Farm to School Video

5:08 minutes

<http://www.youtube.com/watch?v=gSlpZ2tXP6k>

Extension Serves Communities Statewide

Northwest District

Ambler	Kaltag	Nome	Solomon
Brevig (Mission)	Kiana	Noorvik	Stebbins
Buckland	King Island	Port Clarence	Teller
Council	Kivalina	Saint Michael	Unalakleet
Deering	Kobuk	Savoonga	Wales
Diomedea	Kotzebue	Selawik	White
Elim	Koyuk	Shaktolik	Mountain
Gambell	Mary's Igloo	Shishmaref	
Golovin	Noatak	Shungnak	

Yukon-Kuskokwim District

Akiachak	Hamilton	Nunapitchuk
Akiak	Holy Cross	Ohogamiut
Alakanuk	Hooper Bay	Oscarville
Aleknagik	Kasigluk	Paimut
Andreafski	Kipnuk	Pilot Station
Aniak	Koliganek	Pitka's Point
Anvik	Kongiganak	Platinum
Atmautluak	Kotlik	Quinhagak
Bethel	Kwethluk	Red Devil
Bill Moores	Kwigillingok	Russian Mission
Chefornak	Levelok	Saint Mary's
Chevak	Lime Village	Scammon Bay
Chuathbaluk	Lower Kalskag	Shageluk
Clark's Point	Manokotak	Sheldon Point
Crooked Creek	Marshall	Sleetmute
Dillingham	Mekoryuk	Stony River
Eek	Mountain Village	Togiak
Ekuk	Napaimute	Toksook Bay
Ekwok	Napakiak	Tuluksak
Emmonak	Napaskiak	Tuntutuliak
Flat	Newtok	Tununak
Georgetown	Nightmute	Twin Hills
Goodnews Bay	Numam Iqua	Umkumiute
Grayling	(Sheldon Point)	Upper Kalskag

Kenai Peninsula District

Anchor Point	Funny River	Lowell Point	Seldovia
Bear Creek	Halibut Cove	Moose Pass	Seldovia
Chenega Bay	Happy Valley	Nanwalek	Village
Clam Gulch	Homer	Nikiski	Seward
Cohoe	Hope	Nikolaevsk	Soldotna
Cooper Landing	Kachemak	Nimilchik	Sterling
Crown Point	Kaguyak	Port Graham	Sunrise
Diamond Ridge	Kalifornsky	Primrose	Tyonek
Fox River	Kasilof	Ridgeway	Whittier
Fritz Creek	Kenai	Salamatof	

Tanana District

Alatna	Circle	Four Mile (Road)	Minto	Ruby
Alcan Border	Circle Hot Springs	Fox	Moose Creek	Salcha
Allakaket	Clear	Galena	Nenana	Stevens Village
Anderson	Coldfoot	Harding-Birch Lakes	New Allakaket	Takotna
Arctic Village	Dot Lake	Healy	Nikolai	Tanacross
Beaver	Dry Creek	Hughes	North Pole	Tanana
Bettles	Eagle	Huslia	Northway	Telida
Birch Creek	Eielson AFB	Koyukuk	Northway Junction	Tetlin
Centwell	Ester	Lake Minchumina	Northway Village	Tok
Central	Evansville	Livengood	Nulato	Two Rivers
Chalkyitsik	Fairbanks	Manley Hot Springs	Paxson	Venetie
Chisana	Ferry	McGrath	Pleasant Valley	Wiseman
Chicken	Fort Yukon	McKinley Park	Rampart	

Delta District

Big Delta
Delta Junction
Deltana
Fort Greely
Healy Lake

Mat-Su/Copper River Basin District

Big Lake	Farm Loop	Lazy Mountain	Susitna
Buffalo	Fishhook	McCarthy	Sutton
Soapstone	Gakona	Meadow Lakes	(Sutton-Alpine)
Butte	Gateway	Mendeltna	Talkeetna
Chase	Glacier View	Mentasta Lake	Tanaina
Chickaloon	Glennallen	Nelchina	Tatitlek
Chistochina	Gulkana	Palmer	Tonsina
Chitina	Houston	Petersville	Trapper Creek
Chuloonawick	Kenny Lake	Point Mackenzie	Valdez
Copper Center	Knik-Fairview	Port Alsworth	Wasilla
Copperville	Knik River	Silver Springs	Willow
Cordova	Lake Louise	Skwentna	Willow Creek
Eyak	Lakes	Slana	

Juneau District

Angoon	Hoonah
Covenant Life	Juneau
Cube Cove	Klukwan
Douglas	Lutak
Elfin Cove	Mosquito Lake
Excursion Inlet	Pelican
Game Creek	Skagway
Gustavus	Whitestone
Haines (CDP)	Logging Camp
Hobart (Bay)	Yakutat

Anchorage District

Anchorage
Beluga
Eagle River/Chugiak
Eklutna
Girdwood

Kodiak

Afognak	Larsen Bay
Akhiok	Old Harbor
Aleneva	Ouzinkie
Chiniak	Port Lions
Karluk	Port Williams
Kodiak	Woody Bay
Kodiak Station	Women's Bay

Sitka District

Coffman Cove	Ketchikan	Port Alexander
Craig	Klawock	Port Protection
Edna Bay	Kupreanof	Saxman
Hollis	Metlakatla	Sitka
Hydaburg	Mud Bay	Tenakee Springs
Hyder	Naukatli Bay	Thorne Bay
Kake	Petersburg	Whale Pass
Kasaan	Point Baker	Wrangell

Advisory Councils Advocate for Funding and Programming

State Advisory Council

4-H State Volunteer Leader's Organization

Extension Forestry Council

Extension Mining Council

FRTEP Advisory Council

Advanced Master Gardener Education Committee

Student Achievement and Attainment

4-H Camps and Clubs

- More than 1,200 youth participate in Alaska 4-H camps across the state. These include day camps and longer residential camps.
- One-third of all 4-H'ers participate in clubs that focus on topics from food and nutrition to robotics, cooking, sewing and gardening.

Youth in Governance

- Teens spend a week in Juneau, where they participate in a mock legislative session as lobbyists, committee chairs and constituents and serve as pages and meet with actual legislators.

Exchanges

- Alaska families host Japanese youth through the 4-H Labo International Exchange Program.

4-H to College

- 4-H'ers are more likely to get higher grades in school, exhibit greater emotional engagement with school and see themselves going to college.



Productive Partnerships with Alaska's Schools

Farm to School

- The Fairbanks school district central kitchen makes hamburger buns and rolls with hullless barley from Delta Junction using a recipe developed through a collaboration between Extension and the state's Farm to School Program.

Science

- Our agents regularly deliver programs on topics ranging from GPS/GIS technology to Alaska agriculture and the environment, including a salmon incubation program developed to increase science and math literacy.

Nutrition

- Nutrition educators involve youth in making healthy food choices and integrating fitness into their lives.

Economics

- Extension agents teach money management to high school students.

4-H curriculum

- Many classrooms supplement learning with 4-H curricula. Students in Eagle explore subjects like embryology, public speaking and art on "4-H Fridays."



Local and Statewide Connections

Federally Recognized Tribes Extension Program

- FRTEP, with UAF and Extension, provides hands-on workshops and technical assistance to the tribes of the Tanana Chiefs Conference Region that support healthy, self-sufficient lifestyles.

City of Bethel

- The City of Bethel Parks and Recreation Department works with Extension to coordinate the Bethel 4-H Youth Center and related activities.

Bristol Bay Native Corporation

- The Bristol Bay Native Corporation provides office space for Extension agents in Dillingham and Bethel.

Fairbank Community Food Bank

- The Food Bank houses the Tanana District office and provides kitchen space for classes offered by Extension.



Local and Statewide Connections

Alaska Center for Energy and Power

- Extension designs, edits and distributes ACEP publications on wood pellets, biogas, emerging energy technologies and other energy topics.

Alaska Energy Authority

- Extension collaborates with AEA on the Wood Energy Conference, and an agent in Southeast coordinates the Alaska Wood Energy Energy Development Task Group.

State of Alaska

- Extension works with the Divisions of Agriculture, Forestry and Health and Social Services and the Department of Environmental Conservation.

And many more...

- Kenai Peninsula Food Bank, Juneau Youth Services, the Alaska State Fair and the Cold Climate Housing Research Center, to name a few.



Programs for Alaska's Communities

CES Kitchen

- Entrepreneurs may rent Extension's certified kitchen on the University of Alaska Fairbanks campus while they get their businesses off the ground.



Alaska Growers School

- The beginning growers school teaches participants how to raise enough food for themselves and 10 other families.
- The advanced school focuses on starting a small agricultural business.

Master Gardener Program

- Master Gardener training provides a broad horticultural background in botany, soils, vegetable production, Integrated Pest Management, greenhouses, invasive plants and more.

UAF Summer Sessions Lecture Series

- Extension is sponsoring this year's Summer Sessions Healthy Living Lecture Series in collaboration with Fairbanks Memorial Hospital.



Programs for Alaska's Communities

StrongWomen Healthy Hearts

- This 12-week program, developed by Tufts University, offers classes that combine aerobic exercise with nutrition education and targets women who get little exercise.

Refugees Farmers Market Program

- The Refugees Farmers Market Project, supported by the Catholic Social Services, works with different populations of refugees in Anchorage, teaching them how to garden, harvest and sell their produce at farmers markets.

Biomass Energy for Alaska's Schools

- Extension and the Alaska Center for Energy and Power are looking at the feasibility of installing biomass boilers in schools and community buildings throughout the state to save on energy costs.

Conferences and Workshops

- Alaska Growers Conference, Wood Energy Conference, Rural Energy Conference, Sustainable Agriculture Conference, Greenhouse and Nursery Conference and other conferences and workshops provide current information to the public.



Strategic Programming for the Future

Climate Change

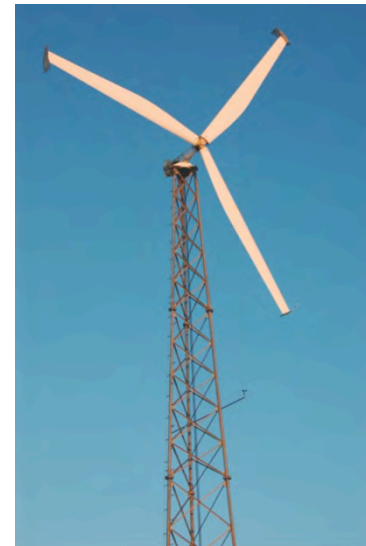
- Extension partners with UAF's Scenarios Network for Alaska and Arctic Planning (SNAP) and the Alaska Center for Climate Assessment and Policy (ACCAP) to distribute information about climate change.

Food Security

- Food security is addressed through programs such as Master Gardeners and the Alaskan Growers School.
- Classes and publications are available on food safety and preservation.
- A variety of conferences hosted by Extension bring the latest research and recommendations to farmers and commercial greenhouse and nursery operators.

Energy

- Extension offers workshops and information on renewable energy, including biofuels, solar and wind energy and home energy.
- Alaskans can find information on how to burn wood properly, with lower emissions.



Strategic Programming for the Future

Aging

- Alaska, per capita, has one of the fast-growing populations of seniors in the country. Extension offers several programs that help mid-life adults and seniors maintain health and independence.

Chronic Disease Management

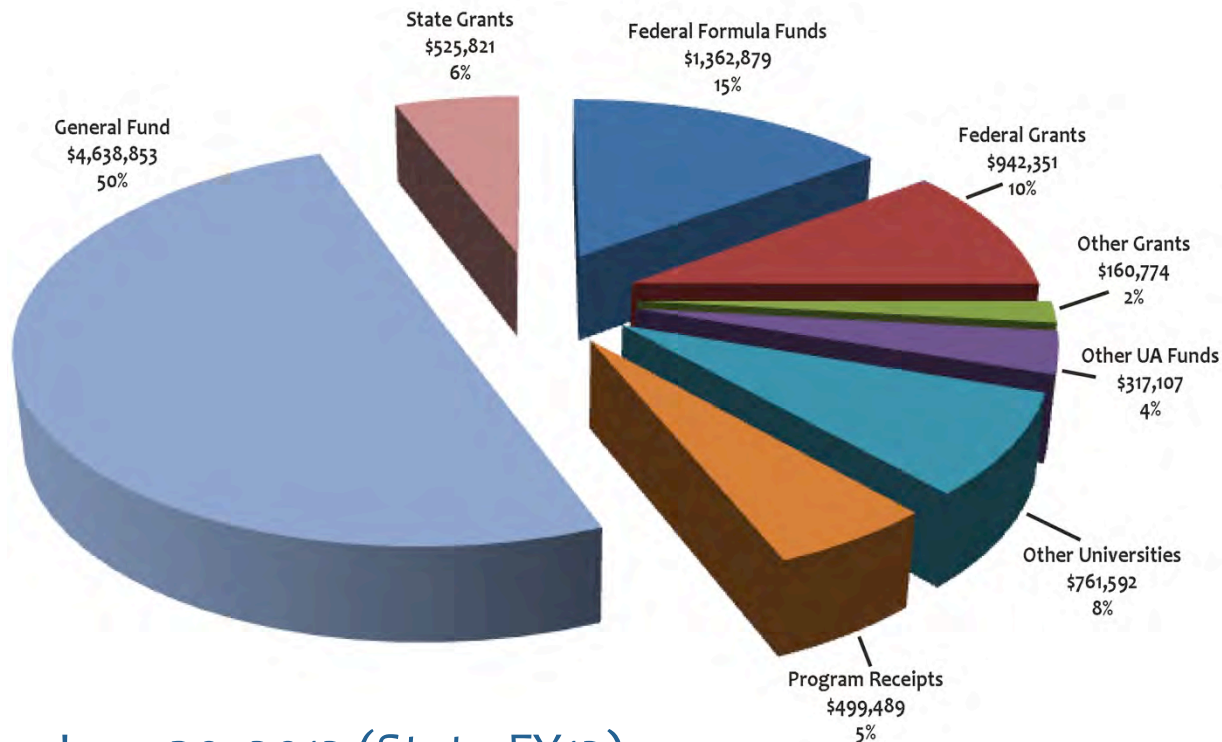
- An Anchorage agent trained 60 instructors for Living Well Alaska, a program that teaches individuals how to manage chronic health conditions.

Extension Disaster Education Network (EDEN)

- Through EDEN, Extension professionals from across the United States and various disciplines can use and share resources to reduce the impact of disasters.

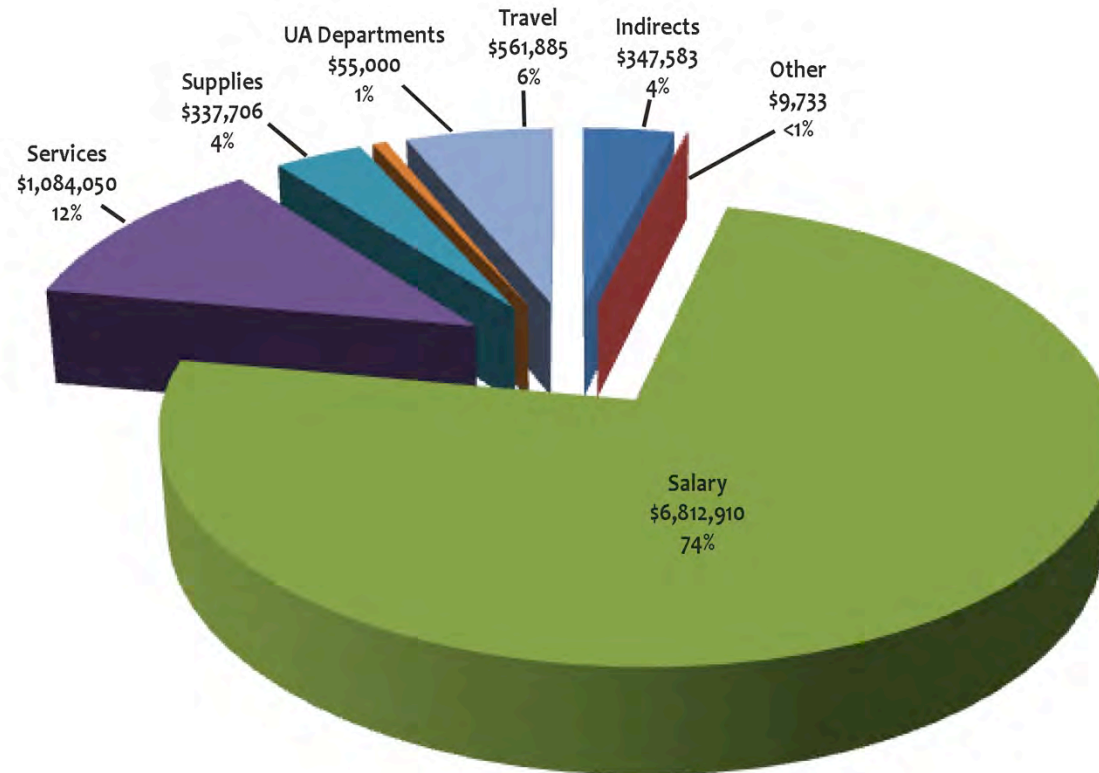


Extension Expenditures by Revenue Source



July 1, 2011 – June 30, 2012 (State FY12)
Total \$9,208,865

Extension Expenditures by Category



July 1, 2011 – June 30, 2012 (State FY12)
Total \$9,208,865



Questions?



Cooperative Extension Strategic Plan 2010-2015

Vision

Cooperative Extension is UAF's premier conduit for outreach education and engagement with Alaskans.

Mission

Cooperative Extension educates, engages and supports the people and communities of Alaska, connecting them with their university.

We provide factual and practical information while bringing Alaskans' issues and challenges to the university.

Contact

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308 Tanana Loop
P.O. Box 756180
Fairbanks, Alaska
99775-6180

907-474-7246
907-474-6971 fax
extension@uaf.edu
www.uaf.edu/ces/
877-520-5211



Food Safety and Security Theme

- Goal 1.* Promote safe and healthy foods for Alaskans that will assist in increasing Alaska's food security and decreasing imported foods.
- Goal 2.* Enhance agricultural opportunities in Alaska.

Health Theme

- Goal 1.* Promote healthy food choices among Alaskans.
- Goal 2.* Increase the number of Alaskans engaged in regular physical activity.
- Goal 3.* Reduce the burden of living with chronic health conditions.
- Goal 4.* Reduce health risks related to unsafe drinking water, waste management and solid waste.

Climate Change Theme

- Goal 1.* Collaborate and communicate regularly with Alaska-related climate change researchers to maintain and expand current scientific information and transfer to the public.
- Goal 2.* Facilitate the transfer of up-to-date, relevant, research-based climate change information on impacts to Alaska communities.
- Goal 3.* Involve Alaskans in risk assessment and appropriate adaptation to climate change impacts on systems critical to our communities.

Energy Theme

- Goal 1.* Educate Alaskans about the benefits and methods of increasing energy efficiency.
- Goal 2.* Educate Alaskans about fossil fuels, renewable and alternative energy systems and technologies.

Youth, Family and Community Theme

- Goal 1.* Strengthen positive youth development in Extension's outreach to families and communities.
- Goal 2.* Teach life skills to adults and families and prepare them for success in the home, workplace and community.
- Goal 3.* Strengthen the health and resiliency of Alaska's communities.

Economic Development Theme

- Goal 1.* Encourage and support partnerships that increase Alaskans' ability and access to entrepreneurial opportunities and connect entrepreneurs with small business resources.
- Goal 2.* Collaborate with industry and business in training and work-force development for youth and adults.
- Goal 3.* Increase financial literacy for Alaskans.

The University of Alaska Fairbanks Cooperative Extension Service programs are available to all, without regard to race, color, age, sex, creed, national origin, or disability and in accordance with all applicable federal laws. Provided in furtherance of Cooperative Extension work, acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture, Fred Schlutt, Director of Cooperative Extension Service, University of Alaska Fairbanks. The University of Alaska Fairbanks is an affirmative action/equal opportunity employer and educational institution.

2012

Program Highlights

Putting education to work in your life and community



Working with Alaskans

- Extension reached Alaskans with distance education using videoconferencing, audios and computers. We trained Master Gardeners, pesticide applicators, food protection managers, 4-H leaders and Alaskan Growers School participants from 63 communities.
- Extension conferences and events brought research and expert information to producers of fruit, vegetables, grains, hay, peonies, rhodiola and livestock and others interested in growing local foods.
- Agents taught nearly 1,000 residents of 20 communities how to preserve garden produce, meat and fish and other Alaska foods.
- We're connecting with Alaskans on 19 separate Facebook pages hosted by districts, Master Gardeners, 4-H clubs and other programs. We're also on YouTube, iTunes U, Pinterest and Flickr.
- Alaska Native youth in 10 rural communities practiced skijoring, cross-country skiing, martial arts, breakdancing, dog mushing and nutrition activities led by agents and volunteers.
- Fairbanks 4-H leader Becky Osimowicz received one of two national awards given to 4-H leaders. Altogether, 1,400 4-H volunteers helped mentor 14,000 Alaska youth.



Camping with Alaska 4-H

During the past year, more than 1,200 youth participated in Alaska 4-H camps. These included day camps and residential camps — camps where youth learn leadership and how to judge a horse, play a bluegrass instrument or ride an ATV safely.

Camps offer youth an opportunity to develop important life skills and have fun, whether it's canoeing, filleting salmon or building a survival shelter. Camps support the 4-H philosophy of "learn by doing."

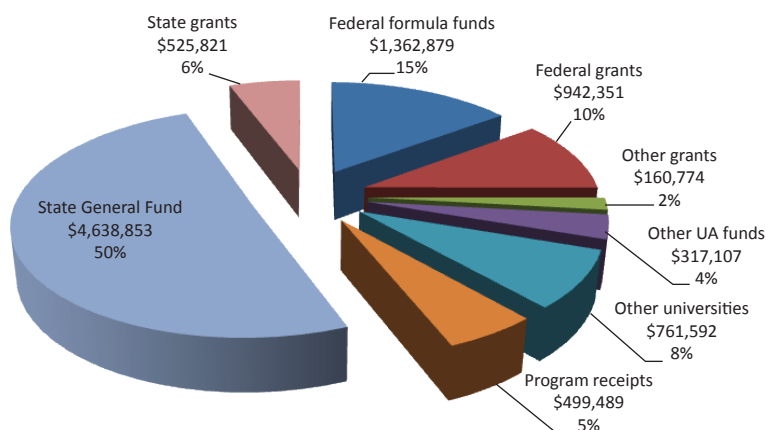
Local foods on the school menu

The Fairbanks school district central kitchen bakes 8,000 hamburger buns and rolls a week that contain hullless barley from Delta Junction.

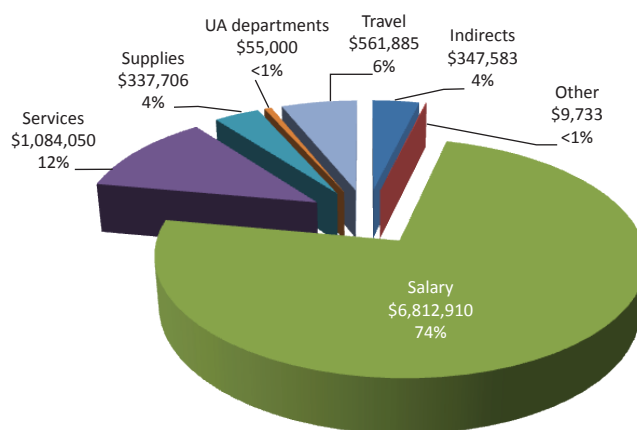
The recipe the district uses is the result of a collaboration with Extension and the state's Farm to School Program, which works to increase the use of local foods in school cafeterias. Extension hopes to continue its work developing recipes for Alaska-grown products and creating more opportunities for Alaska farmers.



July 1, 2011 – June 30, 2012 (State FY12)
Extension Expenditures by Revenue Source
Total \$9,208,865



July 1, 2011 – June 30, 2012 (State FY12)
Extension Expenditures by Category
Total \$9,208,865



The Cooperative Extension Service relies on a variety of federal, state and local sources of funding.

Anchorage District
907-786-6300

Eielson Air Force Base (4-H only)
907-377-4130

Nome (Northwest District)
907-443-2320

Tanana Chiefs Conference
907-452-8251, ext. 3477

Bethel (Yukon-Kuskokwim District)
907-543-4564

Fairbanks (Tanana District)
907-474-1530

Palmer (Mat-Su/Copper River District)
907-745-3360

**Extension Publications
& Information**

Bethel 4-H Youth Center
907-543-7711

Juneau District
907-796-6221

Sitka District
907-747-9440

877-520-5211 • www.uaf.edu/ces

Delta Junction District
907-895-4215

Kodiak (4-H only)
907-486-0441

Soldotna (Kenai Peninsula District)
907-262-5824



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