Farm to School Program

www.dnr.alaska.gov/ag/ag_FTS



Department of Natural Resources,
Division of Agriculture



Overview

Farm to school in Alaska

Tools and resources

Plans for next year

Basic goals of farm to school programs



School Nutrition Programs



Local Food Producers



Educational Outreach

Health, economy, and environment

Similar goals different emphasis

National level

State level

Local level

National FTS network

Department of Ed

Calypso Farm

USDA FTS task force

Department of Ag

Farm to School

Alaska FTS program purpose

A program that will offer expertise and support to all areas of the state to pursue farm to school activities and interests.

Getting youth exposed to or involved in ANY part of the food system.

Background

May 2010 – House Bill 70 Signed into Law Sunset date, end of June 2013

Top priority:

↑ Local

procurement

in schools

- Interest
- Planning
- Action
- Sustain



Other program goals

- Outreach
- Resources
- Activities
- School Gardens

Increasing procurement



Local on the lunch line









Promotion in school

www.agclassroom.org/ak



Alaska Agriculture in the Classroom is sponsored by the Alaska Farm Bureau and Palmer Soil & Water Conservation District, and assisted by other organizations and agencies, including the Alaska Division of Agriculture, the University of Alaska Fairbanks School of Natural Resources & Agricultural Sciences, Alaska Grange and Alaska Association of Conservation Districts and its member districts.

>>Learn more

AITC lessons

Alaska Agricultural History lessons, phase 1, available online

Hopeful Harvest DVD and Lesson Plans available to all Alaska teachers on request

Watch new AITC movie

My Neighbor is a Farmer

for grade school



Hopeful Harvest

for ir.-sr. high

Farm to Table Ag Trivia decks available to Alaska's classroom teachers. Contact Alaska AITC for details. Download the sample Alaska Q&As



Alaska AITC DVD Lending Library More than 50 titles

Contact: Alaska Agriculture in the Classroom



Eat Your Colors

Fruits and vegetables come in a rainbow of colors. Eat a variety of colorful fruits and vegetables every day - red, yellow/orange, white, green and blue/purple. Carrots are in the yellow/orange color group.

Yellow/orange fruits and vegetables help maintain a healthy heart, vision health and a healthy immune system. They may also lower the risk of some cancers. Examples include carrots, yellow and orange bell peppers, yellow summer squash, butternut squash, sweet corn, yellow tomatoes, apricots, grapefruit and vellow apples.

www.fruitsandvegglesmatter.gov www.harvestoffhemonth.com

What's in a Name?

Pronunciation: kār'ət Spanish name: zanahorla

Family: Aplaceae Genus: Daucus Species: D. carota The carrot is a root vegetable of the Aplaceae family. The edible part of a carrot is known as a "taproot." This plant is cultivated for its enlarged edible root and its follage is fine and lacy. In fact, the wild carrot is actually a familiar

wildflower known as "Queen Anne's lace."

Carrots are commonly grouped into two main varieties: eastern and western. Eastern carrots are the original cultivar and were first domesticated in Central Asia more than 1 000 years and. These carmis are usually numle or vellow In color and have fewer branched roots. The purple color stems from an anthocyanin pigment lost in later varieties. (See The Roots of Carrot History on page 3 for details.) Western carrots emerged in the Netherlands in the 15th or 16th century. Their orange color made them popular among countries associated with the House of Orange and the Dutch struggle for independence.

Carrots contain a group of plant pigments called carotenoids, of which beta carotene is a member. These plant pigments were first identified in carrots (giving them their orange color) and, therefore, their name was derived from the word carrot.

www.uga.edu/vegetable/

Reasons to Eat Carrots One cup of choosed carrets are:

- Rich in beta carotene more than 400 percent of the recommended Dally Value (DV) - a form of Vitamin A when absorbed by the body. Beta carotene is important for evesight, skin and normal growth. It may also bein reduce chronic diseases such as cancer and heart disease.
- A good source of fiber, Vitamin C and potassium, which help play various important roles in metabolism and body
- A source of Vitamin B6, folate and several essential minerals including calcium, magnesium and manganese.

How Do Carrots Grow?

Carrots are biennial, meaning they have a two-year life cycle. In the first year, the edible root is formed, followed by production of the flower and seeds in the second year. Carrots can be grown virtually anywhere provided the growing season remains relatively cool. The ideal temperature range is 60 to 70 F. For this reason, carrots are grown year-round in California. They require a growing season of 110 to 160 days and need deep, loose, well-drained soils.

Prior to planting, the soil is plowed deep and disked to avoid clods; a compaction layer also helps keep the roots from becoming forked or rough. Germination of the seedlings may be advanced by sowing them in V-shaped furrows. Seeds are then covered with a quarter-inch layer of sand or sifted compost. Carrots are planted at high densities, ranging from 0.90 to 1.2 million seeds per acre, in eight to 12 seed lines. Most fields are sprinkler-irrigated during the entire growing season. Carrots are mechanically harvested with selfpropelled multi-row harvesters that can harvest up to 1,000 tons per day.

Carrot varieties vary only slightly in taste. shape, or size, so most consumers are unable to tell one variety from another Varieties are actually grown in particular growing regions or for specific uses. For example, carrots found in supermarkets that are packaged in cello bags are grown specifically larger and for the supermarket.



Baby-cut carrots are made from full-grown, small diameter carrots by peeling and cutting them to the desired length. They are planted closer together so the roots stay slim and there is less waste when the carrots are cut to their small size. True baby carrots are removed from the ground early and actually look like miniature carrots.

www.botany.org

Student Sleuths

Name three specific functions that potassium provides for the body.

- What does the dark orange flesh of a carrot indicate? Why should you avoid storing fruits and vegetables
- What is beta carotene and how does it contribute to
- overall health? 5 What is the result when a carrot is left in the ground for too long after reaching maturity?

www.fruitsandvegglesmatter.gov/month/carrot.html www.cfaltc.org/Commodity/Commodity.php

Connection to food production and preparation



Students in Calypso Farm EATinG prgram, Woodriver Elementary school garden, 2010

Bottom two photo's courtesy of Kathleen Vik, 2011 Farm to School grant recipient, Chugiak High School.



Find the value



Health

- Preference for fresh, whole, in season foods
- Improved eating habits
- Learn where food comes from



Financial

- Costs savings
- ↑ lunch participation
- ↓ waste
- Support local economy



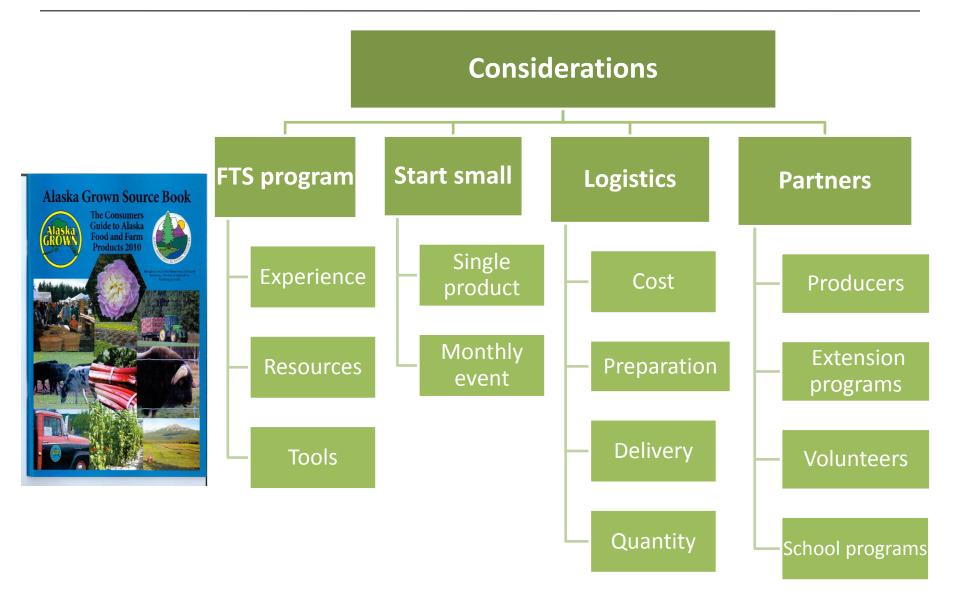
Cultural

- Meaningful food
- Produced in community
- \[
 \number \text{reliance} \\
 \text{on imported} \\
 \text{foods}
 \]





How do you "go local"?



Overview

Farm to school in Alaska

Tools and resources

Plans for next year



Farm to school grant

- ≥24 applicants
- > 17 funded farm to school mini-grant projects

- 8 urban

9 rural



Sample Projects

Bison farm visit and meat purchase

Fish to school effort

Taste testing Alaska grown product

School gardens

Growing potatoes and cabbage for school kitchen use

School / farm tours

Palmer district









Palmer school / farm tour





Carrot production

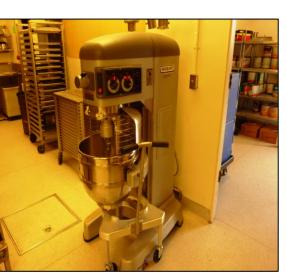
Potato production





Bethel school / farm tour







Taste testing





ERIK HILL / Anchorage Daily News

Aden Gil prepares to vote while taste testing carrots Monday October 24, 2011 at Rabbit Creek Elementary School. Students sampled carrots from clear and orange cups and marked their favorites on a paper ballot before learning that the clear cups contained Lower 48 carrots and the orange cups held carrots donated by VanderWeele Farms in Palmer. The VanderWeele carrots won by a wide margin.

School garden food safety document

Alaska School Garden Food Safety Guidelines

This document was created in response to the medfor food safety guidance in the school garden setting. School gardens are increasingly popular and interest in using the food in the school setting has been discussed in many areas of the State. This document is intended for use in any school garden where product is making its way into the schools or for any other interested gardeners. The concepts provided in this document are relevant to other gardening projects as well.

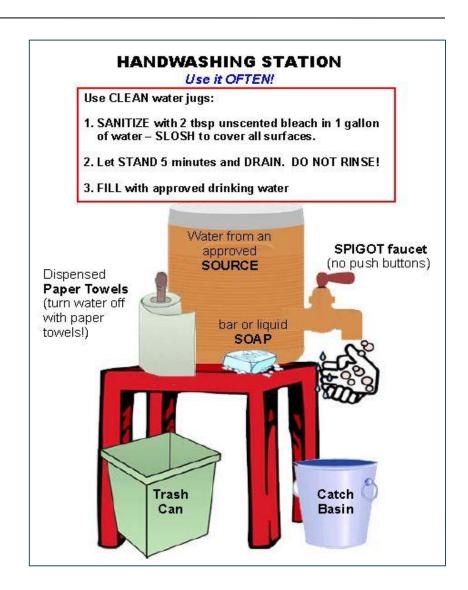


Deve loped and compiled by:
Alaska Department of Natural Resources , Division of Agriculture , Inspections Services
& Farm to School Program
with signs from
Department of Environmental Conservation
Cooperative Entension Services
Child Nutrition Services

Calypso Farm and Ecology Center



August 2011



Product development

RECIPE

51% Whole Grain Hamburger Buns

Yield: 24 hamburger buns - 3"x3" (or 36 dinner rolls)

Ingredients and measurements by weight

52 grams yeast

880 grams water

180 grams sugar

888 grams All Purpose Flour

272 grams Barley flour

652 grams Whole wheat flour

20 grams salt

72 grams non-fat powdered milk

180 grams vegetable oil

52 grams honey



Knead 10 minutes in electric mixer with dough hook.

Let rise until doubled in size.

Punch down and form into 24 hamburger buns or 36 dinner rolls and place on sheet pan.

Let rise until doubled in size.

Preheat oven to 400 degrees F.

Bake rolls 15 minutes or until golden brown and they sound hollow when you tap them.

Remove from oven, let cool on cooling rack.





Cabbage project

1. Alaska Gateway School District

- Calculated the cabbage purchase was ½ the cost of what they purchase commercially
- Cooks were surprised and thrilled to find the kids noticed the difference and really liked it!

2. Fairbanks School District — 1 batch comparison

	Yield	Labor	Total cost including labor
Local [\$1/pound]	~75% (Need 850 pounds to get 640 pounds shredded)	12 hours	\$1150 (\$1.79/pound)
Pre-cut [\$2.32/pound]	100%	3 hours	\$1558 (2.43/pound)

Into the kitchen



Overview

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Looking forward

MEALS survey

	Resource Availability	Source of Availability
Info. on USDA purchasing regulations related to local foods	Available	Child Nutrition Program Farm to School Program
Info. on local foods availability and where to find them	Available	Farm to School Program Cooperative Extension
Financial Support	Some Availability	Farm to School Program
Cost comparison for local versus non-local menu options	Some Availability	Farm to School Program
Local product that is clean, ready to use, and pre-cut	Some Availability	Producers Processors/Vendors
Educational resources about the nutritional benefits of local foods	Some Availability	State taste tests Some published studies
Strategies for connecting with local food producers	Available	Farm to School Program

2012 survey

MEALS survey gave us our first steps

Survey information will get us ready for next year

• Combined 4 survey's into 1

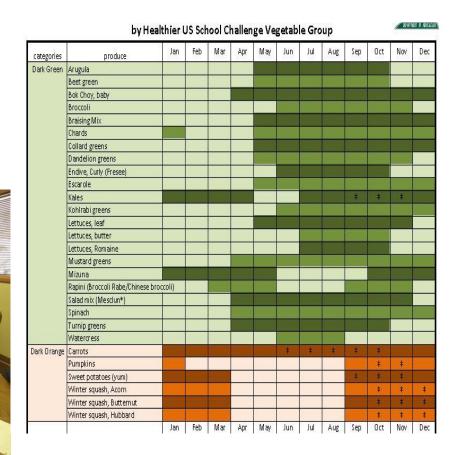
www.surveymonkey.com/s/AK_FSP_2012

Hard copy available

Ideas

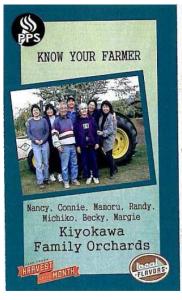
AK Grown Potato Wedge Pilot

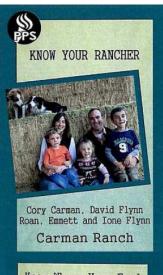
AK Grown Seasonality Chart by HUSSC Requirements

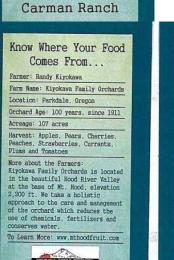


Ideas

'Local Food Hero' Trading Cards







Know Where Your Food Comes From ... Rancher: Cory Carnan, David Flynn, Roan, Emmett and Ione Flynn Ranch Name: Carman Ranch Location: Wallowa, Oregon Ranch Age: 98 years, since 1913 Acreage: 8000 acres Number of Cattle: 165 More about the Ranchers: We work with other ranchers who raise cattle just on pasture to supply sustainable grassfed beef to Portland Public Schools. We love being cattle ranchers living in Eastern Oregon where there are very few people and lots of cows. To Learn More: www.carmanranch.com

Promotional posters for cafeteria





Contact information



Listserv

- <u>list.state.ak.us/index.htm</u>
- dnr.alaska.gov/ag/ag_FTS.htm

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www.facebook.com/AlaskaFarmToSchool