

KEEP IT SACRED

NATIONAL NATIVE NETWORK



Technical Assistance Webinar

Restoring Health Through Sustainable Food Systems

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Faculty Disclosure Statement

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- No commercial interest support was used to fund this activity.

CE Certificate will not be offered for this presentation.

Description

If you live in a low-income community, in a rural location, or where grocery stores and supermarkets are hard to come by, then you live in a food desert. Food deserts are in areas where obesity is just one of the many serious health issues. Many American Indians and Alaska Natives have limited or no access to healthy or affordable food, so their chances of getting diabetes, heart disease, and certain types of cancers are much higher and increasing. Access to healthy and affordable foods is possible, no matter where you live. In the webinar, the speakers will share practical strategies to increase sustainable access to healthy foods, and some of the health benefits of gardening and harvesting plant foods.

LEARNING OBJECTIVES

At the end of the presentation, the participants will be able to:

- 1. Identify at least two strategies to increase access to healthy food.
- 2. Define what is a sustainable food supply.
- 3. Discuss health benefits of gardening and harvesting plant foods.

INDIGENOUS FOODS

Oklahoma City Area Office

Indian Health Service

DOYOU LIVE IN A FOOD DESERT?

more than a mile from good food

WHERE ARE THE FOOD DESERTS

Do you live more than five miles from good food?

TRADITIONAL GARDEN



When most of us think of a garden, this is what we expect to see.

SEMINOLE ELDERS GARDEN



The garden of an 80 year old elder who has diabetes and has been able to control his disease with oral medication due to his garden activities and nutrition.

EMPLOYEE WELLNESS GARDEN AT CLINTON IHS CLINIC



Traditional wooden beds built with 2 x 12's and hammer together.

EMPLOYEE WELLNESS GARDEN



Big bag beds, manufactured in Oklahoma City and available all over the world. This garden was built in a hard to mow area between two sets of stairs only 20 feet apart.



URBAN GARDEN



Bucket garden from the grocery garden program.

FIVE GALLON BUCKET WILL HOLD ONE PLANT.



COMBINATION GARDEN



Buckets and big bag beds used in combination.

TOMATO CROP



"Fruits of Labor"

TOMATOES WILL STILL NEED TO HAVE A CAGE



TOMATOES FROM SEEDS SAVED FROM LAST YEAR.



IF IT CAN HOLD DIRT AND DRAIN WATER, IT'S A GARDEN



ANY OLD VEHICLES NEAR YOUR HOME?



OLD DRAWER WITH A NEW PURPOSE



WHAT IS BEING DONE IN DENMARK TO SUPPLY FRESH PRODUCE



STRAWBERRIES IN A PORTABLE GARDEN



I SAW THIS IN DOWNTOWN DENVER AND IT IS WATERED AT THE CAR WASH



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Alaska Native Health Campus





OUR VISION:

Alaska Native people are the healthiest people in the world.



Restoring Health Through Sustainable Food Systems

Alaska Native Tribal Health Consortium

Health Promotion Program

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http://www.nativefederation.org/about-afn/board-of-directors/#map

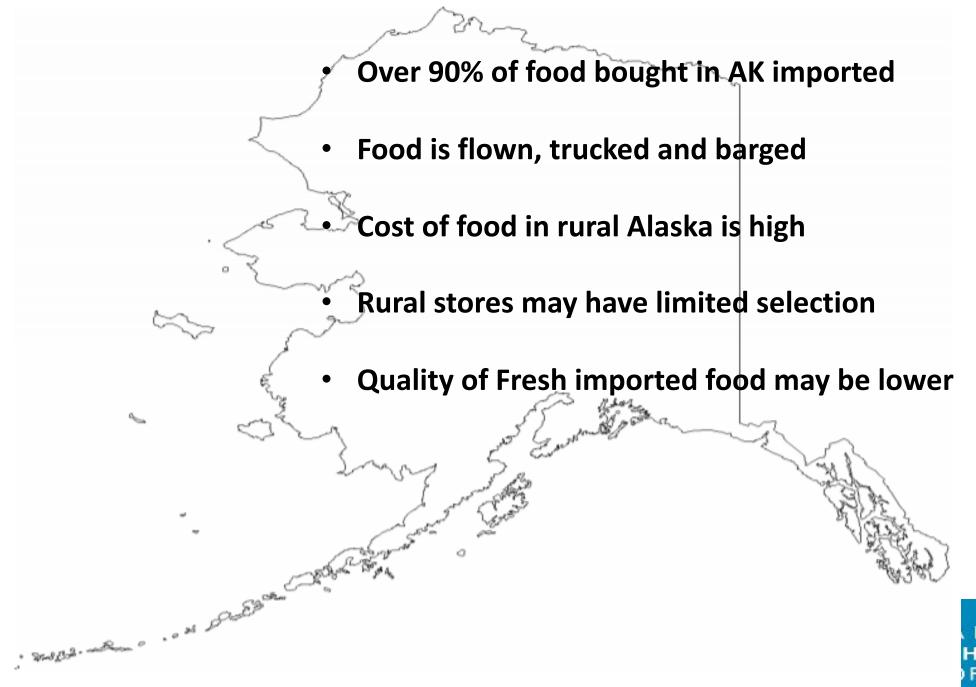


Sustainable Food Supply

Food security for everyone!

Access to healthy foods
Access to traditional foods
Access to store bought foods
Access to garden or farmed foods
Ethical harvesting and Conservation
Agriculture/Economics/Forestry/Soil Science





Health Promotion

Provide and support cultural-based initiatives that reduce risk of developing chronic disease

- Physical activity
- Nutrition
- Alaska Native traditional foods and plants
- Tobacco cessation



Traditional Plants and Chronic Disease Prevention





Alaska Native Value Systems

- Cooperation
- Hard Work
- Humility
- Hunter Success
- Respect
- Sharing
- Spirituality











Benefits of utilizing Traditional Alaska Native Plants

- Nutrient dense
- Medicinal values
- Encourage physical and mental wellness
- Connect us with our ancestral knowledge
- Encourages outdoor activities
- Prevention is Culture!





Wild Alaskan Blueberry



Fiber



Vitamin C



Iron

Nutrients	Wild Blueberry ^{1, 2}
	1 cup
Calories	88 kcal
	18 g
Carbohydrate	
Protein	2 g
Fat	1 g
Fiber	4 g
Vitamin A	167 IU
Vitamin C	27 mg
Iron	1 mg
Calcium	18.85 mg
Potassium	108.75 mg





Fireweed

Nutrients	Fireweed-young	
	leaves 4,5	
	1 cup	
Calories	24 kcal	
	3 g	
Carbohydrate		
Protein	2 g	
Fat	0 g	
Fiber	3 g	
Vitamin A	3146 IU	
Vitamin C	54 mg	
Iron	1 mg	
Calcium	19 mg	
Potassium	138 mg	

† Fiber

T Vitamin A

1 Vitamin C

1ron



Willow Leaves



"Hiking through willows" by Bering Land Bridge National Preserve is licensed under CC BY 2.0 https://ccsearch.creativecommons.org/photos/8418 9d7c-b2e5-494c-b716-5190adb19e8c



Nutrients	Young Willow Leaves 1, 8	
	1 cup, chopped	
Calories	67 kcal	
	11 g	
Carbohydrate		
Protein	3 g	
Fat	1 g	
Fiber		
Vitamin A	10285 IU	
Vitamin C	105 mg	
Iron	1 g	
Calcium	72 mg	
Potassium		





Rose Hips

Nutrients	Rose Hips ^{1, 6} 1 cup	
Calories	206 kcal	
Carbohydrate	48.5 g	
Protein	2.03 g	
Fat	0.432 g	
Fiber	30.6 g	
Vitamin A	5520 IU	
Vitamin C	541 mg	
Iron	1.35 mg	
Calcium	215 mg	
Potassium	545 mg	

Fiber

Yitamin A

Iron

Calcium

Vitamin C Potassium



Seaweeds, Root Vegetables, Trees





Fiber in Traditional Plants

•	Blueberry	4 g
•	Crowberry	5 g
	5 1	

- Raspberry 8 gFiddlehead 6 g
- Fireweed 3 g
- Salmonberry 3 g
- Seaweed 5 g
- Goose tongue 3 gm
- Wild celery 1 gm
- Stinging Nettle 6 gm
- Chocolate lily bulb 2 gm

1 cup servings

(unless otherwise stated)



(3.5 oz)















Tips for eating more traditional plants

- Learn how to harvest plants safely and ethically from Elders
- Introduce a variety of traditional foods to kids early to create a lifelong love for them
- Share knowledge about harvesting techniques and traditions
- Combine traditional foods with healthy store-bought foods
- Bring traditional food dishes to gatherings and events
- Preserve berries and greens by freezing, canning or drying
- Learn to grow a garden



Tips for eating more traditional plants











Harvest Traditional Foods and Plants

Encourages physical activity

- movements in harvesting: walking, climbing, bending, balancing
- Processing foods burns energy: lifting, bending, turning, walking, standing, reaching.
- Shopping, preparing and serving foods engages the body in movement.









Traditional garden blooms in ANMC courtyard





















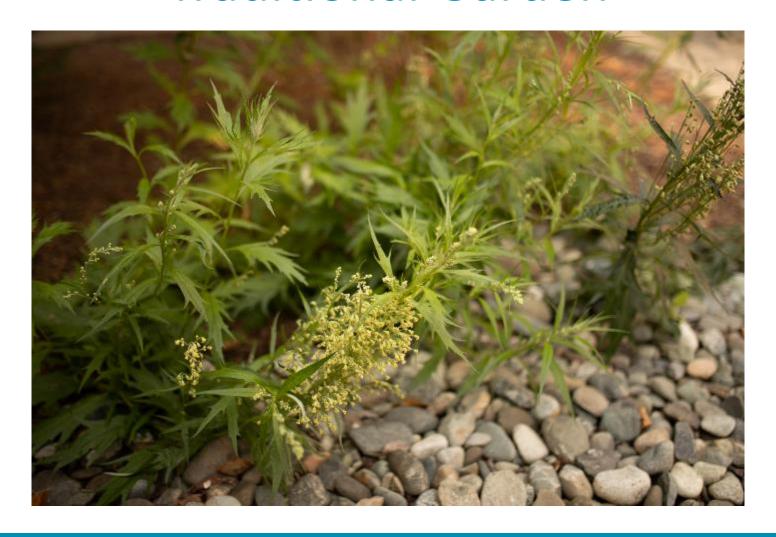




















































APFM Symposiums





APFM Symposiums





APFM Symposiums

















MAJORS & PROGRAMS

ADMISSIONS & COSTS

ACTIVITIES & CAMPUS LIFE

APU COURSE OFFERING

https://ssl.alaskapacific.edu/CourseOffering/CourseDetails.aspx?SROfferID=27347

Course Details - Alaska Native Plants and Traditional Uses

Provides an overview of Southcentral Alaska Native Plants and their traditional uses. Topics include food and medicinal uses, nutrient values, current research, harvesting and processing methods, and cultural perspectives. Students will gain basic knowledge of the Alaska food system and how Alaska plants and Traditional uses promote food sustainability, healthy lifestyles, and holistic health. Class will discuss past and present Alaska Native diet patterns and identify the most common Traditional plants used for food and medicine in the Southcentral region. This course incorporates active hands-on learning in a mix of field and classroom time.

Course ID OS 10500 BO1 Outdoor Studies Undergraduate 2020 Fall Block













Reducing Your Risk of Chronic Disease

Through Gardening and Harvesting









The Research

"Household gardening is associated with high-EWB (emotional wellbeing)." ²

"Vegetable gardening is associated with higher EWB than ornamental gardening." ²

"Human-nature interaction provide(s)an opportunity to develop connectedness with nature that satisfies physical, psychological and spiritual needs."

"There is a positive association between access to green space and mental well-being of children."⁴



Benefits for Children who Spend Time with Nature

Improving children's overall mental health.⁴

Helping children be more resilient and have better self-esteem. ⁵

Improve stress and help children focus better. ⁶

Improve behaviors related to ADHD. ⁶





Benefits of Interacting with Plants

Reduces anxiety and depression, improving mood (1)

Associated with a better quality of life, helps

one feel more connected to community ¹

Feeling inspired and more connected to a "broader reality."²

Increases satisfaction and promotes a connection to nature.³





Take-Away!

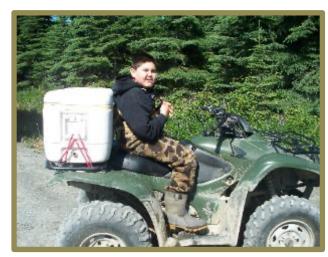
"A regular dose of gardening can improve public health." 5





Changes in Traditional Foods Diet

- Social factors
- Economic
- Time
- Climate change
- Pollutants
- Regulations and restrictions.







Solutions

Motivate your families and communities to spend time with plants

Learn about climate change and how to work within its impact

Learn about agriculture

Encourage more traditional hunting and harvesting practices: teach, learn, listen, implement.

Build personal capacities in agriculture

Expand agriculture and gardening

Build infrastructure that supports local food production

Adopt state policy that supports local food production

Create your own local Food Council

Partner with local Cooperative Extension, Universities, Tribal Health Advisory Councils.



In Summary



- Encourage traditions
- Physical activity
- Healthy food to eat
- Sense of community
- Increased sense of wellbeing
- Enhance education
- Include Elders and Youth



Resources

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Resources

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