



Food Insecurity in Indian Country: A Case Study Approach

Kelli Begay, MS, MBA, RDN Division of Diabetes Treatment and Prevention Indian Health Service

> Patty Keane, MS, RDN Prevention Research Center University of New Mexico

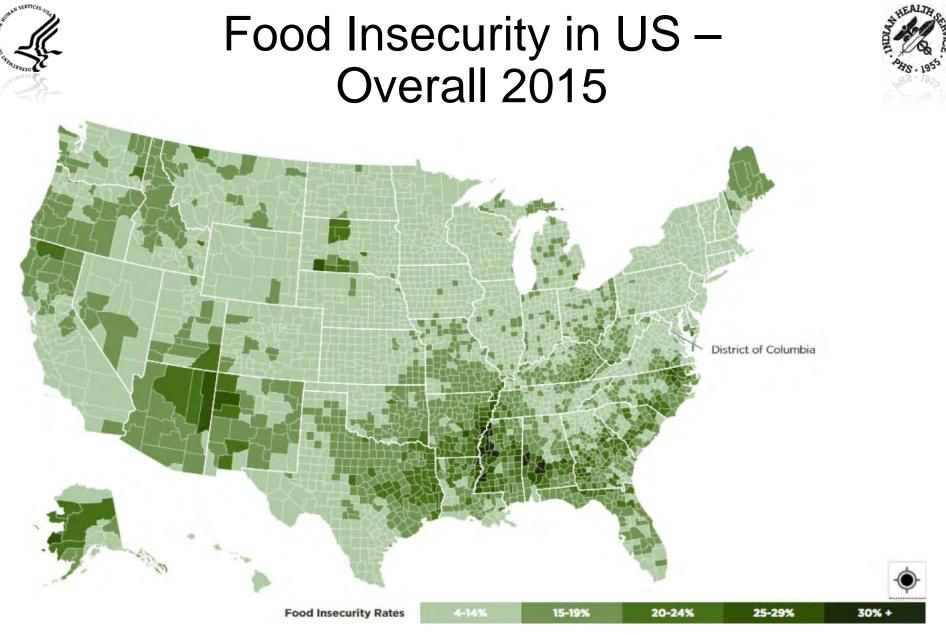


Food Security Defined



Label	Formerly known as	Defined as
High Food Security	Food Security	No reported indications of food-access problems or limitations
Marginal Food Security	Food Security	 One or two reported indications – typically anxiety over food sufficiency or shortage of food in the house Little or no indication of changes in diet or food intake
Low Food Security	Food insecurity without hunger	 Reports of reduced quality, variety, or desirability of diet Little or no indication of reduced food intake
Very Low Food Security	Food insecurity with hunger	Reports of multiple indications of disrupted eating patterns and reduced food intake

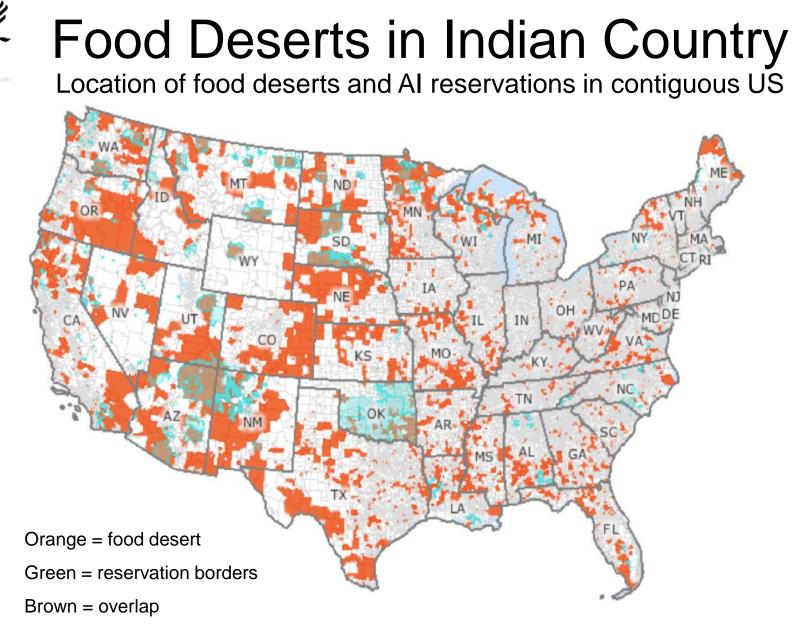
Source: USDA Economic Research Service: <u>https://www.ers.usda.gov/topics/food-nutrition-assistance/food-security-in-the-us/definitions-of-food-security.aspx#ranges</u>



Source: http://map.feedingamerica.org



Source: http://map.feedingamerica.org



Source: Food desert by Census tract: US Department of Agriculture, Economic Research Service

Understanding Food Insecurity



Risk Factors

- Financial
 - Low, inconsistent or lost income
 - Recent job loss or reduction in hours
 - Inadequate SNAP allotment or access to government food programs
- Senior citizens
- Single-parent homes
- Drug and alcohol dependency
- Uninsured or underinsured with a medical illness

More Likely

- At the end of the month
 - SNAP or income may have run out
- Important to consider when taking a diet history
- Holiday seasons
- Birthdays, life-cycle rituals
- Feast Days
- Ceremonies
- Summer
- Seasonal bills
- Competing housing and medical costs

Health Impacts of Food Insecurity (1)



Children and Adolescents

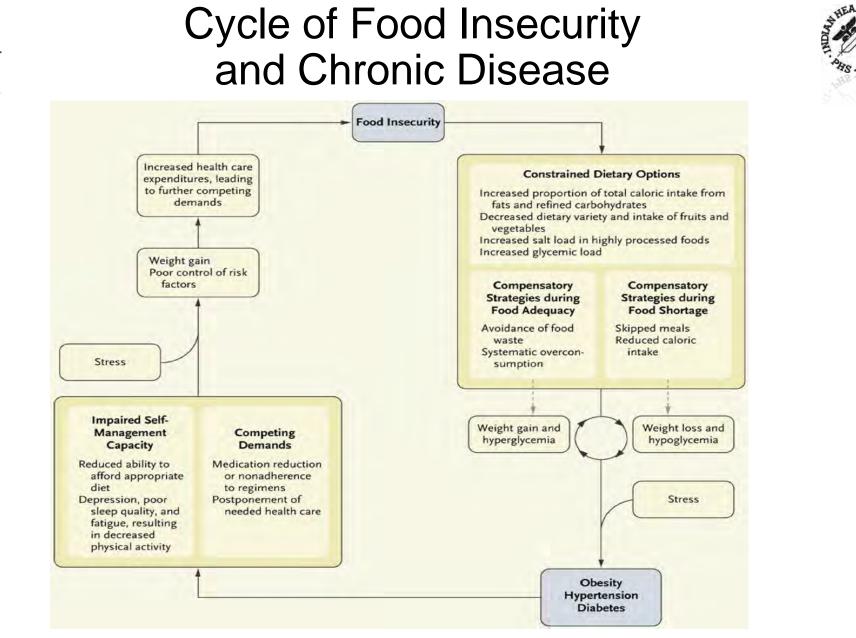
- Chronic health/behavior issues
- Asthma
- Iron-deficiency anemia in infants and toddlers
- Greater chance of being hospitalized
- Greater developmental risk
- Low birth weight
- Higher anxiety and depression
 - Suicide in adolescents

Health Impacts of Food Insecurity (2)



Adults

- Diabetes
- Asthma
- Cardiovascular disease
- Cancer
- Obesity
- Depression and mental illness
- Chronic/toxic stress
- Medication underuse
- Tobacco use
- Exposure to violence



- Hilary K. Seligman, MD and Dean Schillinger, "Hunger and Socioeconomic Disparities in Chronic Disease," The New England Journal of Medicine 363 (2010): 6–9
- <u>http://www.nejm.org/doi/full/10.1056/NEJMp1000072</u>

SERVICES

Policy, Systems, and Environmental (PSE) Change Approaches



Supporting healthy eating patterns in multiple settings, from home to school to work, to the communities in which people live, learn, work, shop, worship, and play

- **Policy** is a written statement of an organizational position, decision, or course of action. Ideally policies describe actions, resources, implementation, evaluation, and enforcement.
- **Systems** changes are unwritten, ongoing, organizational decisions or changes that result in new activities that alter how the organization or network of organizations conducts business.
- Environmental includes changes to the built or physical, economic, social, normative or message environments.

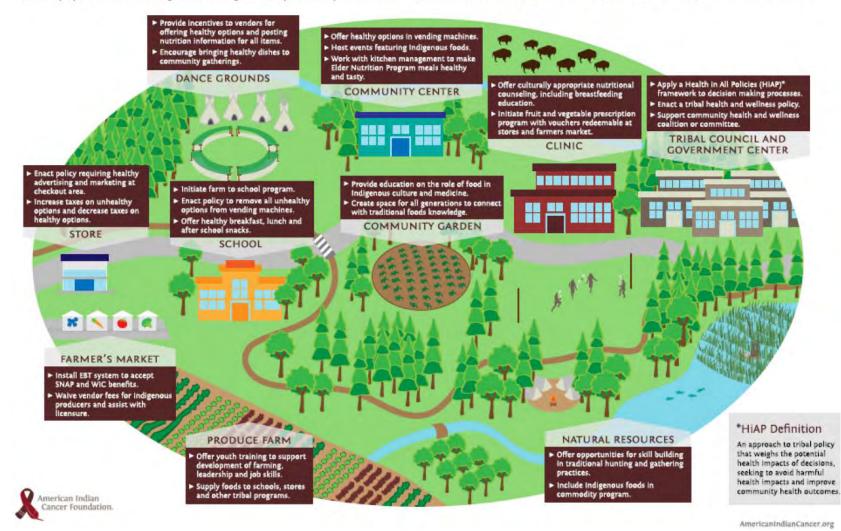
Realthy Eating for Strong Native Communities

PROMOTING INDIGENOUS HEALTH

Indigenous Foods: foods native to local area.

Healthy Options: water, fruits, vegetables, whole grains, lean proteins, unprocessed foods.

> Unhealthy Options: sugary drinks and processed foods high in sugar, sodium and saturated fat.





School and Early Care and Education (ECE) Settings

- National School Lunch Program
- School Breakfast Program
- Child and Adult Care Food Program
- Summer Food Service Program
- Fresh Fruit and Vegetable Program
- Initiate Farm to School Program
- Enact policy to remove all unhealthy options from vending machines
- Offer healthy breakfast, lunch, and after-school snacks



Community Center

- Supplemental Nutrition Assistance Program (SNAP)
- Food Distribution Program on Indian Reservations (FDPIR)
- SNAP-Ed
- Older Americans
- Commodity Supplemental Food Assistance Program
- Congregate Dining
- Home-delivered Meals
- Offer healthy options in vending machines.
- Host events featuring Indigenous foods.
- Work with kitchen management to make Elder Nutrition Program meals healthy and tasty.









Community Garden

- Provide education on the role of food in Indigenous culture and medicine.
- Create space for all generations to connect with traditional-foods knowledge.













Division of Diabetes Treatment and Prevention



Farmer's Market

44 195 1955

- Install EBT system to accept SNAP and WIC benefits.
- Waive vendor fees for Indigenous producers and assist with licensure.









Dance Grounds

- Provide incentives to vendors for offering healthy options and posting nutrition information for all items.
- Encourage bringing healthy dishes to community gatherings.



Natural Resources and Produce Farm



Natural Resources:

- Offer opportunities for skill building in traditional hunting and gathering practices.
- Include Indigenous foods in commodity programs.



Produce Farm:

- Offer youth training to support development of farming, leadership, and job skills.
- Supply foods to schools, stores, and other tribal programs.



Food Retail



- Enact policy requiring healthy advertising and marketing at checkout area.
- Increase taxes on unhealthy options and decrease taxes on healthy options.



Tribal Council and Government Center

- Apply a Health in All Policies (HiAP) framework to decision-making policies.
 - (HiAP is an approach to tribal policy that weighs the potential health impacts of decisions, seeking to avoid harmful health impacts and improve community outcomes.)
- Enact a tribal health and wellness policy.
- Support community health and wellness coalition or committee.

"Right to healthy and culturally appropriate food produce through local, sustainable ways and the right of people to define their own food and



agriculture systems"



Clinic



- Offer culturally appropriate nutritional counseling, including breastfeeding education.
- Initiate fruit and vegetable prescription program with vouchers redeemable at stores and farmers market.







Meet the Bird Family

Michelle



- 44 years old
- Family history of heart disease, diabetes
- Presents to clinic with frequent headaches
- Blood pressure is 150/90
- Doctor recommends lifestyle changes
- Referral to Health Educator/Dietitian/Nurse
- Works as a home health aid
- Three children (ages 4, 8, 14)
- Recently separated from husband, moved in with mother
- Recent reduction in work hours



Food Insecurity Assessment Tool and Resource List

- Produced by the IHS Division of Diabetes Treatment and Prevention, 2015
- Available at <u>https://www.ihs.gov/MedicalPrograms/Diabetes/HomeDocs/Resources/InstantDownloa</u> <u>ds/FoodInsecurityAssessTool.pdf</u>
- The following is a sample from the form:

To help your patients and clients improve their health, it is important to understand food insecurity and provide them with resources to get more healthy food.

When patients/clients and their children cannot get enough healthy food, they have food insecurity. They:

- Are at greater risk for being emotionally distressed.
- Eat less expensive foods which are often unhealthy.
- Have little choice over what kinds of food to buy or receive for free, making it difficult or impossible to eat balanced meals.
- Have periods when they don't eat, then overeat when food is available. If they have diabetes, this makes it very difficult to manage blood sugar.
- Have a greater risk for being overweight or obese.
- Are more likely to get diseases like diabetes.



Screening



- 1. Within the past 12 months, we worried whether our food would run out before we got money to buy more.
- 2. Within the past 12 months, the food we bought just didn't last and we didn't have money to get more.

Answer Options:

- Often True
- Sometimes True
- Rarely True
- Never True

If the answer is either "Often True" or "Sometimes True" for either statement, it is likely that the person is experiencing food insecurity.







Event capture:

- Lack of adequate food and safe drinking water
- Billable/specific ICD-10-CM code that can be used to indicate a diagnosis for reimbursement purposes.







What you don't see...





Ella – Michelle's Mom

- 72 years old
- Active in community
 - Attends Senior Center fitness classes



- Low monthly income from social security benefits
- Food budget has been impacted due to recent deaths in community
- She's concerned about how she's going to take care of her daughter and her daughter's family
- The fitness specialist notices that Ella has a decrease in energy during classes.



Michelle's Children





James

- 14 years old
- Plays JV basketball
- Trying to make new friends
- The coach notices that James doesn't have snacks or money for food during away games.



Max

- 8 years old
- Attends Boys & Girls Club
- Interested in community garden
- The B&G Club staff see Max take extra snacks, especially on Fridays.



Mariah

- 4 years old
- Attends Head Start program
- Quiet and shy
- Mariah regularly asks for seconds and thirds.





What do you do?

30

Possible Interventions – Ella

(Michelle's Mom)

- Fitness Specialist:
 - Check in with her privately to see how things are going at home
 - Ask about her food situation and if there have been any changes in her food budget or meals
 - Connect her with a food advocate, such as a dietitian, nurse, health educator, or Community Health Representative (CHR)





31

Possible Interventions – Michelle

Food advocate:

- Connect her with food resources in the community
 - Reduced or free meals application for kids' school meals
 - Supplemental Nutrition Assistance Program (SNAP) Benefits
 - Food Distribution Program
 - Clinic Food Pantry
 - Tribal Programs
 - Local Food Banks









How do you begin to identify the layers of resources?





Tools for Educators and Clinicians



Where to Get Food Assistance in This Community

Community Name:

Not having enough food for yourself and your family is stressful. Lack of good food makes it difficult to provide nutritious meals that help children grow and adults stay healthy. The thought of not having enough food can make you worry.

Date

There are resources to help. If you need food assistance, please don't wait to contact the programs on this list. They can help you get the food you need for yourself and your family.*

Program Name	Contact Name	Contact Number	Other Important Information (Location, Who Can Qualify, Hours, etc.)
SNAP - Supplemental Nutrition Assistance (Food Stamps)			
Food Distribution (Commodities)			
Women, Infants, and Children (WIC)		-	
School Lunch and Breakfast Program			
Summer Food Service Program for Children			
Senior Center			
Meals on Wheels			
Tribal Food Program			
Farmers Markets			
Community Gardens			
Food Bank / Food Pantry			
"Mobile Grocery Store" Truck			
Church / Place of Worship			
Social Services			

• Where to Get Food Assistance in This Community form

• Second page of the Food Insecurity Assessment Tool and Resource List

Download at <u>https://www.ihs.gov/MedicalPrograms/Di</u> <u>abetes/HomeDocs/Resources/InstantDo</u> <u>wnloads/FoodInsecurityAssessTool.pdf</u>



Food Assistance Sheet Tips



- Keep sheet updated
- Normalize the situation
- Get to know internal and external resources
- Collaborate with local programs
 - Tribal programs
 - Extension programs
 - Food Distribution Programs

ngram Name	Curriali Name	1	Where to Get Food		ince in	This Community	
Fool (Birran)		1050	Community Name Periods				
burner (Commodities)	Feter	936	at provine rultinue result that her			al Luck of good food makes is stitling Rey trendby. The Elevable of the failed	
lace, and Others	baba	490	enough tood plat midde you wory. There are thematises to help. If you you that wail. They can help you get			in and wat is unlined the programs of and your family."	
on and Beautien	check	*].	Program Rissa	Costant Males	Contast Malika	Cheve Report and Antone Atlant [Location: Who, I as Gassily Maker, 401]	
ind Service Program.	Carlene Bullock	93.	Scriptule - Supportunities (Number	12	81458	STAT pressure hast country to be pressed to pass of their range prices y taxes.	
Arr -	Cindu I Mores	936	Ppog Distributes (Commentation)	-	817-7492	And in case of the local division of the loc	
Pronts	Langen	9.84	Winner (Rdants, and Dolgress (MC)	Sarger WC	NIELAU.	the property has a surrow to describe the	
Il Yugiani		-	1000	Ers Paul	415-4244		
a Nilla	- 30	-	School Land and Swantak. Englany	APR 7700	411-4284	Contact the Parcel Sorvice director al Indian (danted Surfrag)	
Gatdena	-	400	Summer Phot Service Program The Californi	Eric Paul	821.426	Control the Point Survive Sector is Indian stated Science	
/ Food Pacity	-		Silver Serie	(Terms Large	117-7402		
kery liters' Truck	- intal	1 alto	Means or Winstie	Contraction of the local division of the loc	18040-00	Contractive Contractor	
ace of Werking	Bally	198.	AD Colorey	-	LANSAN THE	************	
Services	BATTER	BATTER	(2)	Accessive Name	Ame Scime	arrower	Table Council & Statistics and Descent
	1	1	Commandy Darthret	Augus Moore	145-0044	"This party in the second	
the program to see if	Act in the second second	Sectory.	Food Bank / Food Party	-	211.2462	The Real Property lies and the real Property lie	
TAL processi	the PELDone	THE DESIGN	"Motolie Crockery Single" Track	-	\$17-N82	*****	
C2. mentode			Challer's Fusi Party	150	an-ce		
			Latappent Sch42518		-		
			"Check aim the propries to see V	_	-		





Emerging Approaches

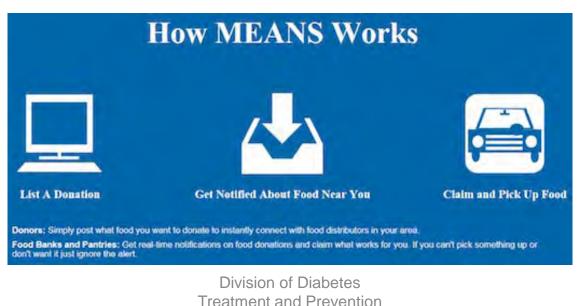
MEANS Database Matching Excess and Need for Stability



How MEANS Works



- An online platform and app for food pantries and the donors
- Donors: List a donation
- Food Banks and Pantries: Get notifications on nearby food donations
 - Claim and pick up food when possible, otherwise ignore the alerts
- Learn more at https://www.meansdatabase.com/





Addressing Food Insecurity: A Toolkit for Pediatricians



- **Prepare**: Educate, train, follow AAP recommendations, incorporate screening info, show sensitivity
- Screen: Use the AAP-recommended Hunger Vital Sign
- **Intervene**: Administer appropriate interventions, connect patients to resources, document and track interventions, support advocacy and efforts to end childhood food insecurity
- Learn more and find tools at <u>http://frac.org/aaptoolkit</u>.



HUNDAN SERVICES - CALL

Federal Nutrition Programs and Emergency Food Referral Chart



USDA National Hunger Hotline

1-866-3-HUNGER/866-348-6479 or 1-877-8-HAMBRE/877-842-6273

Monday through Friday (8 a.m. to 8 p.m. ET)

Age of Patient	Name of Program	How It Works	Who Can Apply	Learn More
Al ages	Supplemental Nutrition Assistance Program (Ato known as SNAP, formerly known as Food Stamps) Note: Program may be called something etce in your state	Monthly benefits to purchase food at grocery stores, farmer' markets, and food retail outlets across the country that accept SNAP Benefits loaded onto an EBT card (much like a debt card) The average benefit is about \$31 for the week – or about \$1.47 per person, per meal	Gross income typically at 130% of the federal poverty level but can be higher in some states? Asset tests may apply in some states? Many low-income employed individuals	National resources Call the SNAP information line at 1:800-221-5699 for information on how to apply in your state Online application for SNAP available for resolution in 42 states. Informations in 42 states.
Program, postpartum, and beassfeecing women, industs; childron up to age five	The Special Supplemental Nutrition Program for Women, Infants, and Children (WIC)	Nutritionally tailored monthly food packages (worth approximately \$50) month that families noteen in grobiny and food stores that accept WIC Binastifieeding support, nutrition services, screening, immunization, and fealth referrals.	Low-income pregnant, breastrieeding, and postpartum women, and infants and children; up to age five deemed notifisenally at raik by a health care protessional income eligibility typicality at or below 195% of the findered powerty level? Families on Medicaed	State insources: Contact your staten's WC agency count information on local WC alonke sites Screen patients for WC eligibility with a customized state fact. Totaching the understate fact.
Typicały, children up to age five	Child and Adult Care Food Program (CACFP)	Up to two free meals and a snack to infants and young children at child care centers and homes; Head Start, and Early Head Start Updated nutrition standards in 2016 means healther meals	Children attending aligible child care context and homes; Head Start, and Early Head Start	State resources: Contact the state Department of Education for participating child care centers and thomas Contact child's day care provider to see evaluability of free means through CACFP Local resources:
Cadem K/2	National School Lunch Program and School Breakfast Program	Free, reduced priced, or paid school meets in participating schools Updated mixel patients feature more whole grains, 0 grams of trans fat per portion, appropriate calories by age, more fruit, and reduction of sodium	Enlacen of families at low or moderate income layers can qualify for free of reduced-price melas Free to all students at schools adopting commonly eligibility – which allows schools with high numbers of low-income relations to differe the breaktat and langh to all students without collecting school meal applications	Contact child's school to see availability of hee breaktest and kinch and application process. If any Contact the state Dependence of Education for a list of participating schools
S			and appendix	Local resources:

Learn more at http://frac.org/aaptoolkit



Farm Bill 2018



- SNAP and SNAP-Ed
- Expanded Food and Nutrition Education Program (EFNEP)
- Food Distribution Program on Indian Reservations (FDPIR)
- Native Farm Bill Coalition: <u>http://seedsofnativehealth.org/native-farm-bill-coalition/</u>
- Academy of Nutrition and Dietetics: <u>https://www.eatrightpro.org/advocacy/legislation/all-legislation/farm-bill</u>



Resources



- First Nations Nourishing Native Foods & Health: <u>https://firstnations.org/programs/foods-health</u>
- American Indian Cancer Foundation, Healthy Native Foods: <u>https://www.americanindiancancer.org/healthynativefoods</u>
- Seeds of Native Health: <u>http://seedsofnativehealth.org/</u>
- American Academy of Pediatrics Food Insecurity Toolkit: <u>http://frac.org/aaptoolkit</u>
- Feeding America:

https://hungerandhealth.feedingamerica.org/