## Addressing food insecurity with non-market solutions

Sam Bliss, Ph.D.

### Testimony to House Committee on Agriculture, Food Resiliency, and Forestry January 19, 2024



a. 2 in 5 Vermonters experienced food insecurity between spring 2021 and 2022

#### 2. Non-market solutions

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- b. Vermonters report getting 14% of their food via non-market means
- c. At least 78% of Vermonters acquire some food via non-market means
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- e. Distributing food as a gift produces co-benefits that selling it does not
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# 2 in 5 people in Vermont

## are experiencing hunger.



hungerfreevt 5d

January is

Hiller

#NationalPovertyinAmericaAwarenessM onth, and the most recent Census data shows the largest-ever one-year increase in poverty levels. It's clear that affording food is becoming much harder, as so many of our neighbors in Vermont are experiencing firsthand.

Right now, 2 in 5 people in Vermont are experiencing hunger. Hunger Free Vermont is here to help.

There are many programs available to help you bridge the gap. From 3SquaresVT to Meals on Wheels to WIC, there are food resources available to you.

♥ Q ♥
17 likes
5 days ago

## Our Team

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- Farryl Bertmann- Clinical Associate Professor
- Jennifer Laurent- Associate Professor
- Ashley McCarthy- Postdoctoral Associate
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- Becca Mitchell- Project coordinator
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NFACT National Food Access and COVID Research Team

A 2022 Assessment of Food Security and Health Outcomes during the COVID-19 Pandemic Ashley C. McCarthy<sup>1</sup>, Farryl Bertmann<sup>1</sup>, Emily Belarmino<sup>1,2</sup>, Sam Bliss<sup>1,2</sup>, Jennifer Laurent<sup>1</sup>, Jonathan Malacarne<sup>3</sup>, Scott Merrill<sup>1,2</sup>, Rachel E. Schattman<sup>3</sup>, Kathryn Yerxa<sup>3</sup>, Meredith T. Niles<sup>1,2</sup>

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Figure 1. Prevalence of food insecurity in the last 12 months and in the last 30 days as measured by the USDA six-item household food security survey module

#### U.S. Household Food Security Survey Module: Six-Item Short Form Economic Research Service, USDA September 2012

The first statement is, "The food that (I/we) bought just didn't last, and (I/we) didn't have money to get more." Was that <u>often</u>, <u>sometimes</u>, or <u>never</u> true for (you/your household) in the last 12 months?

- [] Often true
- [] Sometimes true
- [] Never true
- [] DK or Refused
- HH4. "(I/we) couldn't afford to eat balanced meals." Was that <u>often</u>, <u>sometimes</u>, or <u>never</u> true for (you/your household) in the last 12 months?
  - Often true
     Sometimes true
     Never true
     DK or Refused
- AD2. In the last 12 months, did you ever eat less than you felt you should because there wasn't enough money for food?
  - [] Yes [] No
  - [] DK
- AD3. In the last 12 months, were you every hungry but didn't eat because there wasn't enough money for food?
  - [] Yes [] No [] DK

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Scientific rigor doesn't have the same ring:

"2 in 5 Vermont web survey respondents experienced household food insecurity between spring 2021 and spring 2022."

But that's still *a lot* of food-insecure folks.

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#### NON-MARKET FOOD PRACTICES DO THINGS MARKETS CANNOT: WHY VERMONTERS PRODUCE AND DISTRIBUTE FOOD THAT IS NOT FOR SALE



Joshua Farley, Ph.D., Advisor V. Ernesto Méndez, Ph.D., Chairperson Teresa M. Mares, Ph.D. Rachelle K. Gould, Ph.D. Daniel Tobin, Ph.D. Holger Hoock, DPhil, Dean of the Graduate College

## Non-market food practices

## Markets = buying and selling

## Market exchange is trading money for food

## Markets for food ...

... direct food toward money, not need

... force actors to prioritize financial viability

## Non-market food practices

## **Production** that is not for sale like gardening, fishing, foraging, hunting, trapping

**Transfers** without buying and selling like gifts, barter, food pantries, soup kitchens



#### Non-market food flows in Brattleboro area.

Each node is a farm, business, organization, etc. Each arrow, or edge, is *food* moving. Nodes' size corresponds to # of connections.

→ Market sales
 → Non-market transfers
 → Both

•

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### In Vermont, non-market food practices are mostly ignored

Academia: "food systems" = commercial food systems

Government: Agency of Agriculture, Food and Markets









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Non-market Food Production

Production of food that is not for sale gardening, fishing, foraging, hunting...

a.k.a. home & wild food procurement

Pillars of food security: Availability Access Stability Utilization Agency Sustainability

The 5 As of food security: Availability Access Adequacy Acceptability Agency



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## 26 interviews with...

- Game wardens
- Avid hunters and foragers
- Rural healthcare practitioners
- Gardening educators
- State deer and fish biologists
- Hardcore homesteaders

...

	Dimension	Non-market food production can	Example quote
e food security	Availability	make additional food available.	"Apples now just grow in a feral state and just carpet the place." -Anthony
		make substantial dietary contributions.	"I don't think I've eaten red meat that didn't come from venison that I or my family harvested in 10 years." -Nate
	Access	provide foods that are expensive to purchase.	"There's not many times in my lifetime that I've ever been to the grocery store to buy meat Which is nice because meat is super expensive." -Cooper
	Adequacy	provide protein, vitamins, and minerals.	"The meat itself is highly nutritious It's a good protein source." -Agnes
		provide foods perceived safer than purchased equivalents.	"You're less likely to be ingesting pesticides that were used in the food production process." -Nancy
	Acceptability	provide foods people prefer.	"If you want something particular, you will have to raise it yourself because [you] might not get it at the grocery store, it just might not be there. " -Carl
		provide culturally important foods.	"Types of tomatoes that people don't have access to in the market. The garden can play a really important role in access to some culturally specific crops." -Tania
		provide food that aligns with people's values.	"A lot of people get into hunting for food to know where their food came from, and know that it's healthy, free range, whatever terms you want to use. " -Nate
		provide foods that taste better than purchased equivalents	"This is a chicken we buy at the store; this is a chicken we grow on our own. There's a difference." -Paul
	Agency	give people control over their food sources.	"We know where our food comes from, which is really nice. I don't have to worry about what kind of preservatives have been put in it." -Jill
		generate feelings of self-efficacy in one's food provisioning.	"It feels good to have a meal that you completely foraged, grew, hunted, fished for You're a provider. Yeah, you did it with your own skill." -Eli
	Stability	provide food through periods of low access to market food.	"Recessions don't affect the people around here as much because they still grow their own food, they hunt, and they have chickens." -Patty
		provide food through periods of low availability of market food.	"We both had gotten deer the year before My freezer was full For us there was just never worry about what happens if the store is out of hamburger." -Jill
		provide food year-round.	"I'm leaning toward storage crops Food insecurity in the wintertime is not a good feeling." -Judith
	Sustainability	provide food in low-impact ways.	"[Foragers] are very, very conscientious of how much you can safely take to not be destroying the ecosystem, and they go out of their way to be responsible." -Ryan
		generate environmental values.	"I think it helps people to see themselves within a larger ecosystem They in turn, inherently, probably would be more open to making sure that that community thrives." -Shawn

Table 5.2 Pathways through which non-market food production can enhance food security

# Food self-provisioning generates **long-run, skills-based, resilient food security**

"The ability to forage, even if it's for something like the false Solomon's seal berries yeah, not that tasty but edible ... but you could in a pinch, if there's a massive power outage and every grocery store in town has to throw out all their food—I'm not going to starve. And neither are the people I care about." -Ryer

"My mom to this day, she's 87, she's canning my tomatoes, 100+ jars of tomatoes. 50 jars of pickles. 200 jars of jams and jellies. Frozen jams and jellies. ... Her freezer is just full of vegetables. **It is a security thing. It gives you that peace of mind that if anything gets tight we're not gonna starve**." -Jody

"People we talk to in the garden have this sense of, let's get this, let's get into doing this. Because someday we might need it." -Patty

"Those are going to be the skills I think that are really needed, and really called upon in my apocalyptic vision of the future." -Sally

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## Non-market food practices

**Production** that is not for sale like gardening, fishing, foraging, hunting, scavenging

**Transfers** without buying and selling like sharing, gifts, food banks, soup kitchens

## 25 interviews with...

- Church soup kitchen volunteers
- Food shelf workers
- Mutual aid organizers
- Gleaning coordinators
- and the like....

## ...in Greater Brattleboro

## Non-market food distribution

strengthens relationships,

fosters resilience,

puts edible-but-not-sellable food to use,

aligns with an alternative, non-market vision for a desirable food future, and

is magical,

according to our interviewees.

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## Farmers get paid (at locked-in price and quantity), food still distributed for free.



Recipients get restaurant meals for free, do not have to go to a soup kitchen.



Figure 7.1 Share of Vermonters' food consumption from market and non-market sources, 1600–2022



Figure 7.2 Share of Vermonters' food from market and non-market sources, 10,000 B.C.-2022 A.D.

## thank you!



#### Find our team's policy briefs at <a href="https://www.nfactresearch.org/vermont-policy-briefs">https://www.nfactresearch.org/vermont-policy-briefs</a>

#### Work referenced:

- Bliss, Sam, Alexandra Bramsen, Raven Graziano, Ava Hill, Saharay Perez Sahagun, and Flora Krivak-Tetley. 2023. "Non-Market Distribution Serves Society in Ways Markets Cannot: A Tentative Defense of Food Charity from Small-Town New England." *Journal of Agriculture, Food Systems, and Community Development* 13 (1): 281–312. <u>https://doi.org/10.5304/jafscd.2023.131.016</u>.
- Bliss, Sam. 2019. "The Case for Studying Non-Market Food Systems." Sustainability 11 (11): 3224. https://doi.org/10.3390/su11113224.
- Bliss, Sam. 2024. "Non-Market Food Practices Do Things Markets Cannot: Why Vermonters Produce and Distribute Food That Is Not for Sale." Ph.D. dissertation: The University of Vermont and State Agricultural College. <u>https://www.proquest.com/docview/2887699188/abstract/7CAD85516F684DA8PQ/1</u>.

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### Non-market food practices do things markets cannot: Why Vermonters produce and distribute food that is not for sale



## Policy for overcoming barriers?

Food Insecure Food Secure 34% ( Not interested in these activities Not enough time 38% 43% Lacked access to land 27% • 45% 16% Lacked money for equipment or supplies 47% Don't have the knowledge to do things 26% effectively Couldn't access supplies (such as seeds, 3% 22% canning jars, etc.) Poor weather conditions 5% 14% Pest issues (such as insects, plant disease, 5% 8% etc.) Distance to travel for home food 1% 8% production is too far Other reason 8% 12% 0% 20% 40%

58%

60%

#### Reasons for not engaging in home & wild food procurement, by food security status

Angle, Ashleigh, Ashley McCarthy, and Meredith Niles. 2023. "Home Food Production Before, During and Since Start of the COVID-19 Pandemic in Northern New England." College of Agriculture and Life Sciences Faculty Publications 201. Burlington: University of Vermont. https://scholarworks.uvm.edu/calsfac/201.

## Policy for overcoming barriers?



#### Difficulties faced by those who did engage in home & wild food procurement, by food security status

Angle, Ashleigh, Ashley McCarthy, and Meredith Niles. 2023. "Home Food Production Before, During and Since Start of the COVID-19 Pandemic in Northern New England." College of Agriculture and Life Sciences Faculty Publications 201. Burlington: University of Vermont. https://scholarworks.uvm.edu/calsfac/201.