

The Northeast Food System

Tim Griffin

Agriculture Food & Environment

Gerald J. and Dorothy R.
Friedman School of
Nutrition Science and Policy

The logo for Tufts University, featuring the word "Tufts" in a large, white, serif font above the word "UNIVERSITY" in a smaller, white, sans-serif font, all set against a blue rectangular background.

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The Northeast Region

(you are in it, obviously)



Maine to West Virginia



Multiple markets



Direct to consumer



Supply chains



Past, current and future capacity in the region





Dense Urban Markets



Relationship Markets

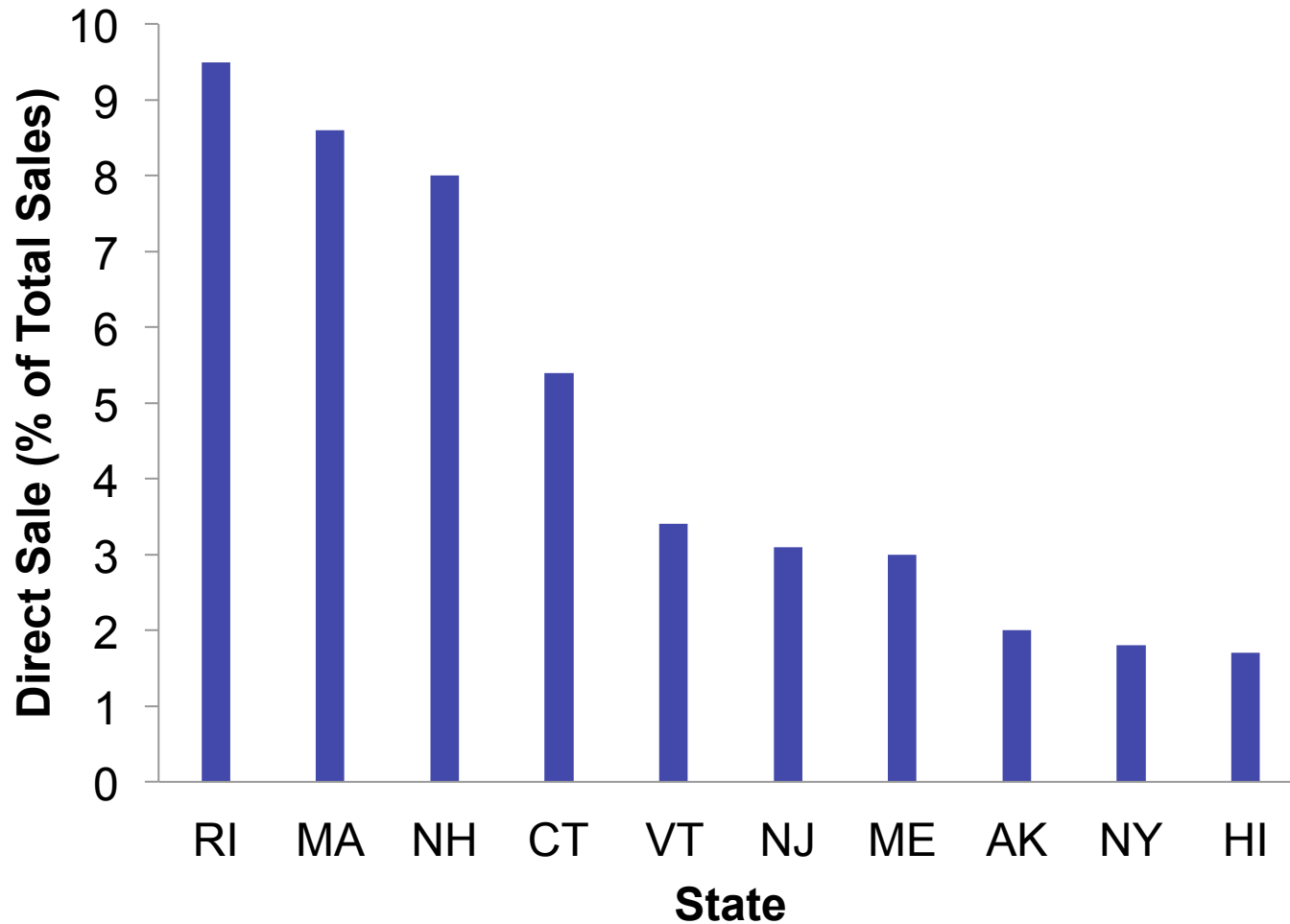


<http://www.fns.usda.gov/wic/images/FMNPfa2.jpg>

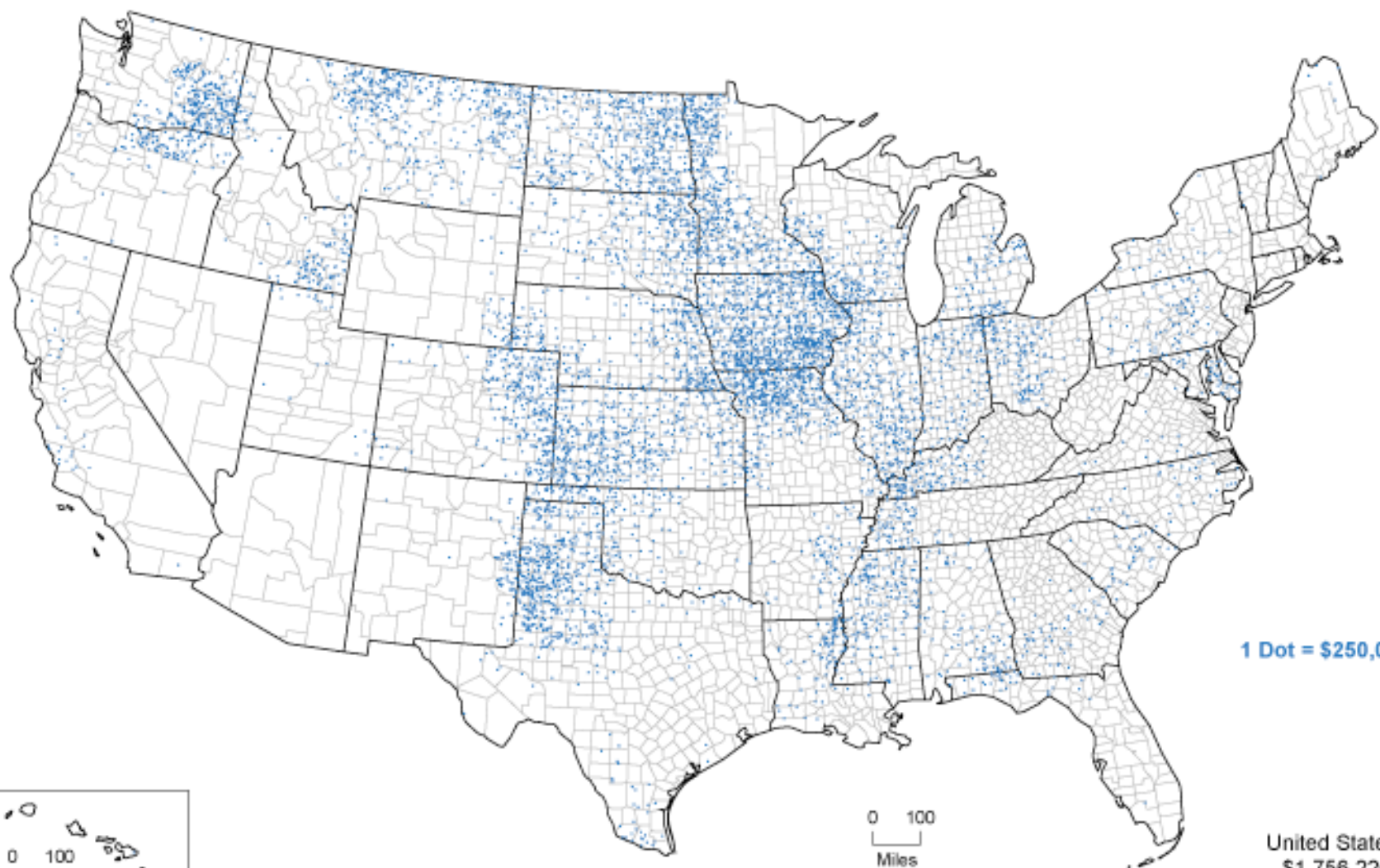


http://www.fnec.cornell.edu/Uploads/FMNP/barrels_of_peppers.jpg

Direct to Consumer Sale of Food: Top 10 States

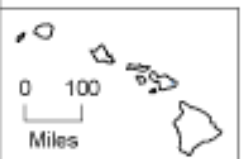


Payments Received from Conservation Reserve, Wetlands Reserve, Farmable Wetlands and Conservation Reserve Enhancement Programs: 2007



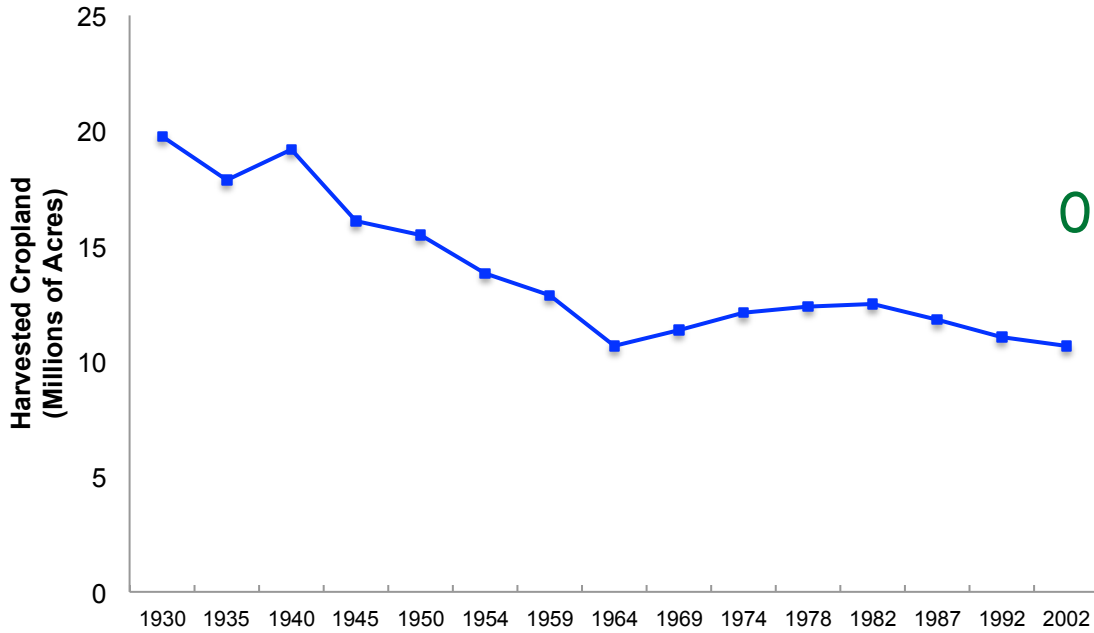
1 Dot = \$250,000

United States Total
\$1,756,226,000



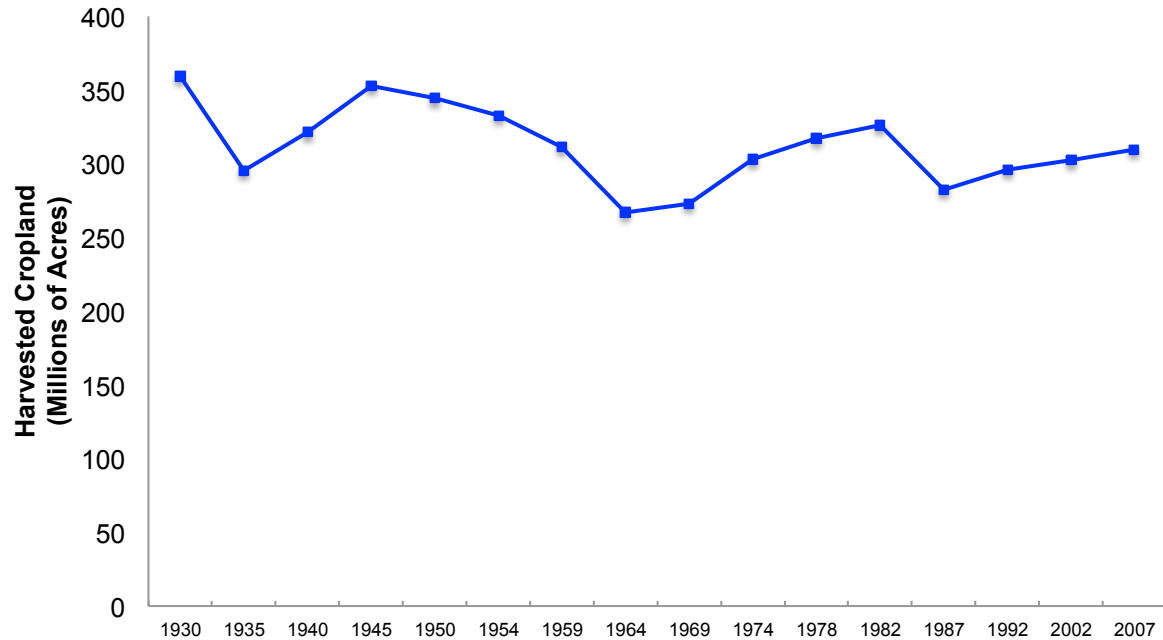
Changes in Northeast Ag since 1930

Cropland in Northeast

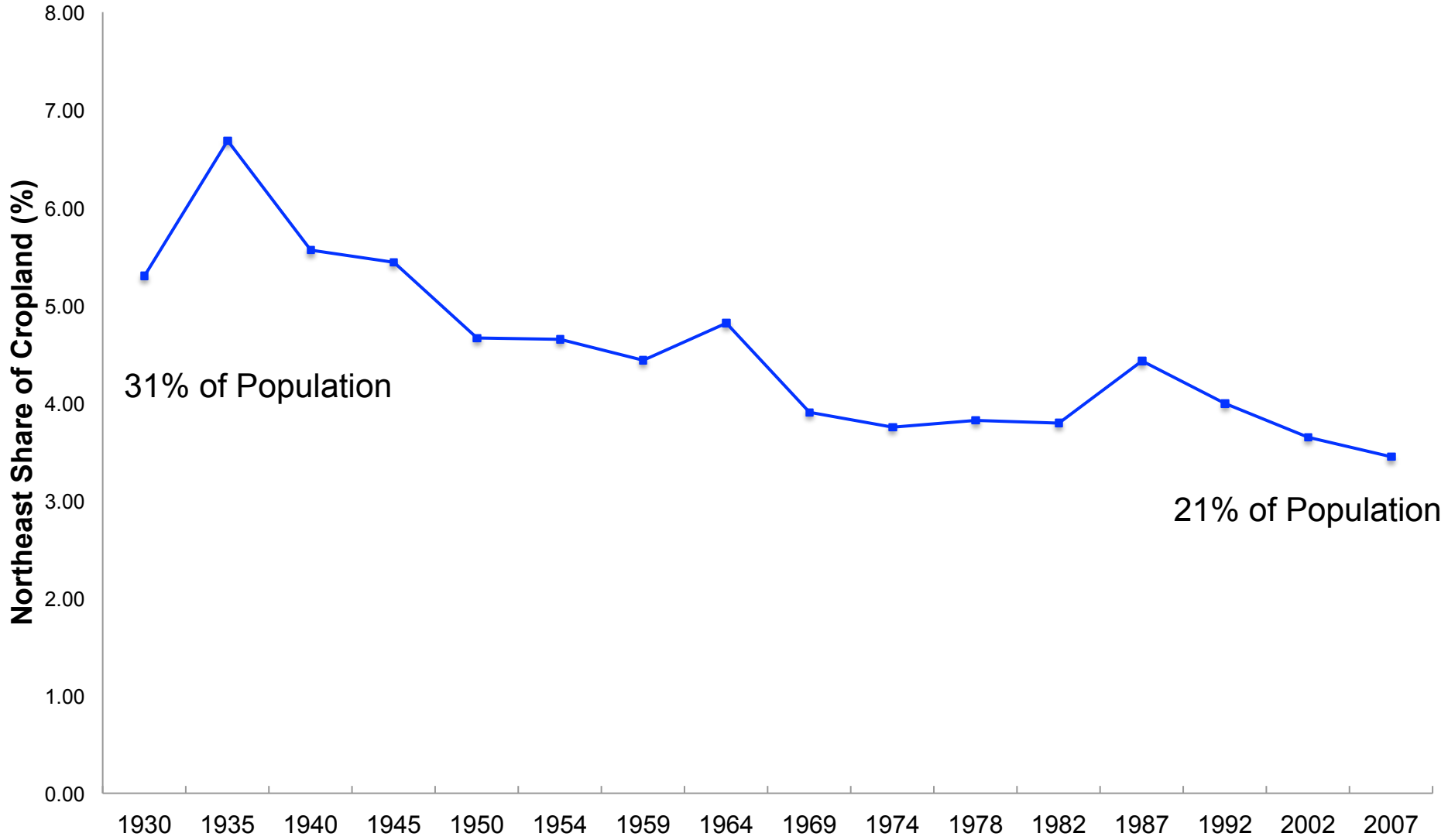


Cropland loss ranges from 0 to 75% across the 12 states in the Northeast

Cropland in U.S.



Three cycles of land retirement at national level



Current Capacity in the NE

Enhancing Food Security of Underserved Populations in the Northeast through Sustainable Regional Food Systems

A Regional Research Collaboration



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

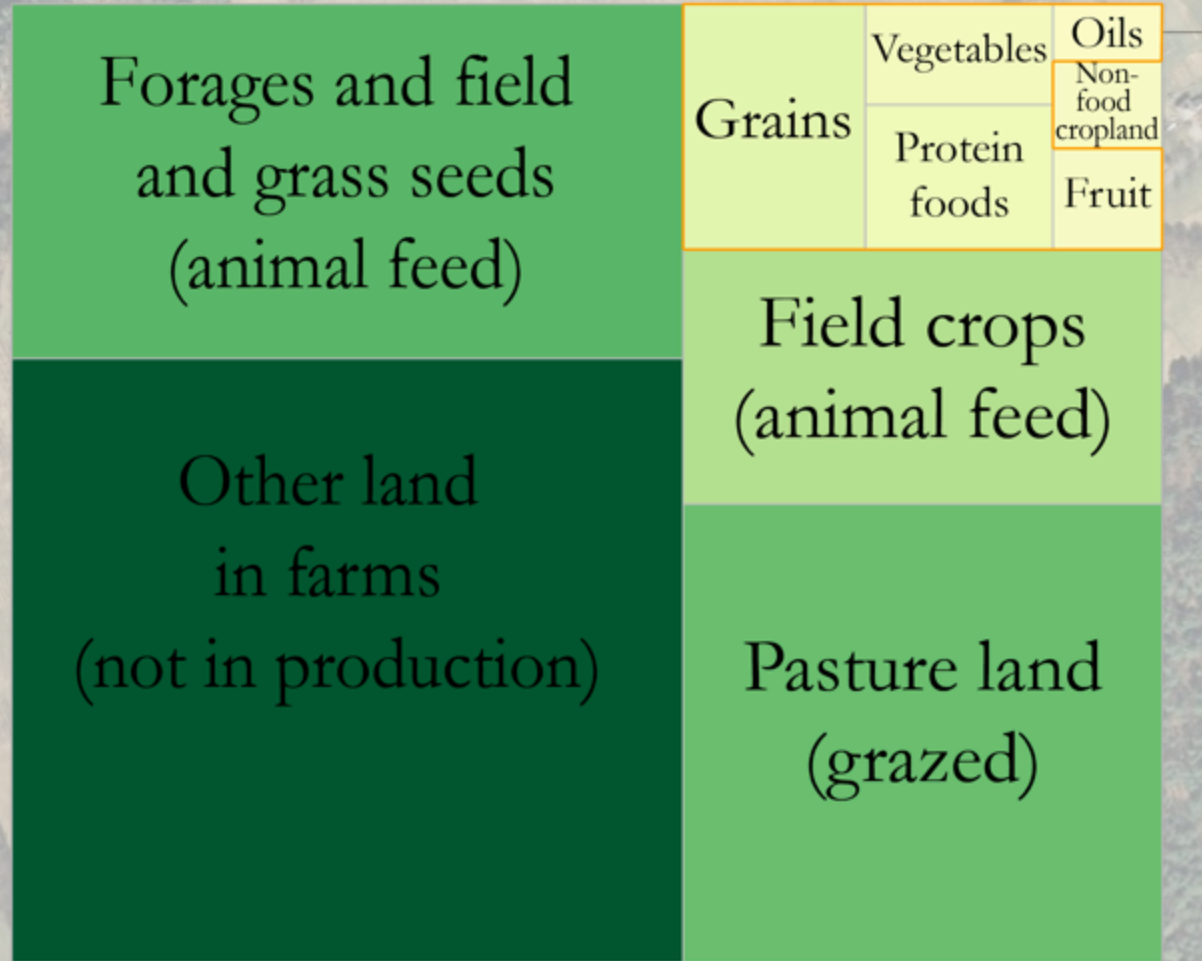
Some Details:

- **Estimation conducted at state level**
- **Some aggregation to larger areas**
- **Goal: 10-yr time-series of *Output***
- **Data Gaps are a significant issue, especially for Fruit and Vegetable crops**

Land and Land Use in NE

	Northeast	U.S.	Share
	-----Millions of Acres-----		%
Land in Farms	26.1	922.1	2.8
Cropland	10.7	309.6	3.5

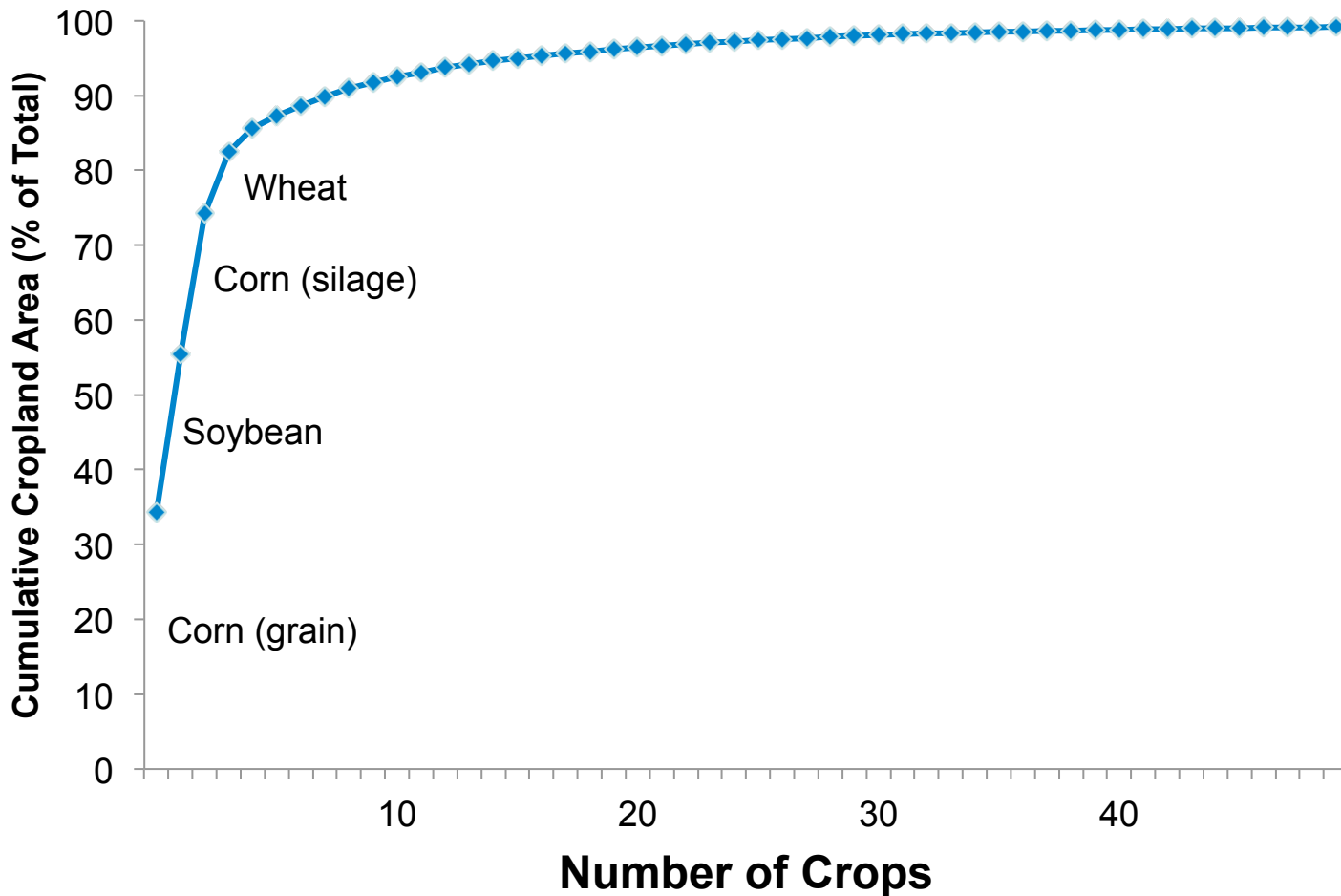
Northeast regional mean agricultural land area, 2001-2010

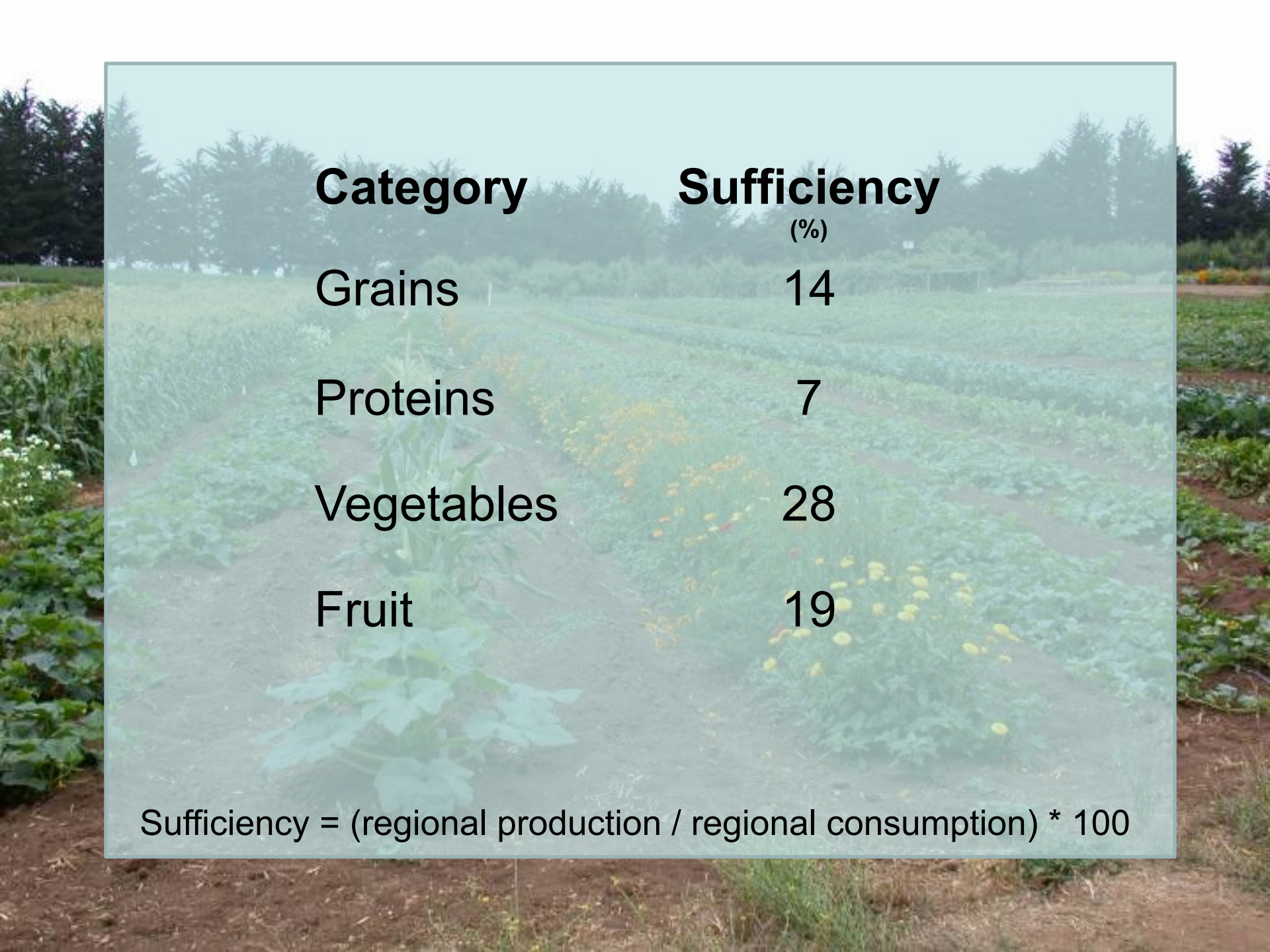


0 19 37 % of total agricultural land in the Northeast

Crop Diversity in the Northeast

More than 300 different crops grown
(includes feed, food, non-food, “other”)





Category	Sufficiency (%)
Grains	14
Proteins	7
Vegetables	28
Fruit	19

Sufficiency = (regional production / regional consumption) * 100



Vegetable Group	Sufficiency (%)
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Dark Green	12
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Starchy	44
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Red and Orange	13
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Other	34
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Sufficiency = (regional production / regional consumption) * 100



Fruit Group

Sufficiency
(%)

“Commonly Eaten”

17

Berries

54

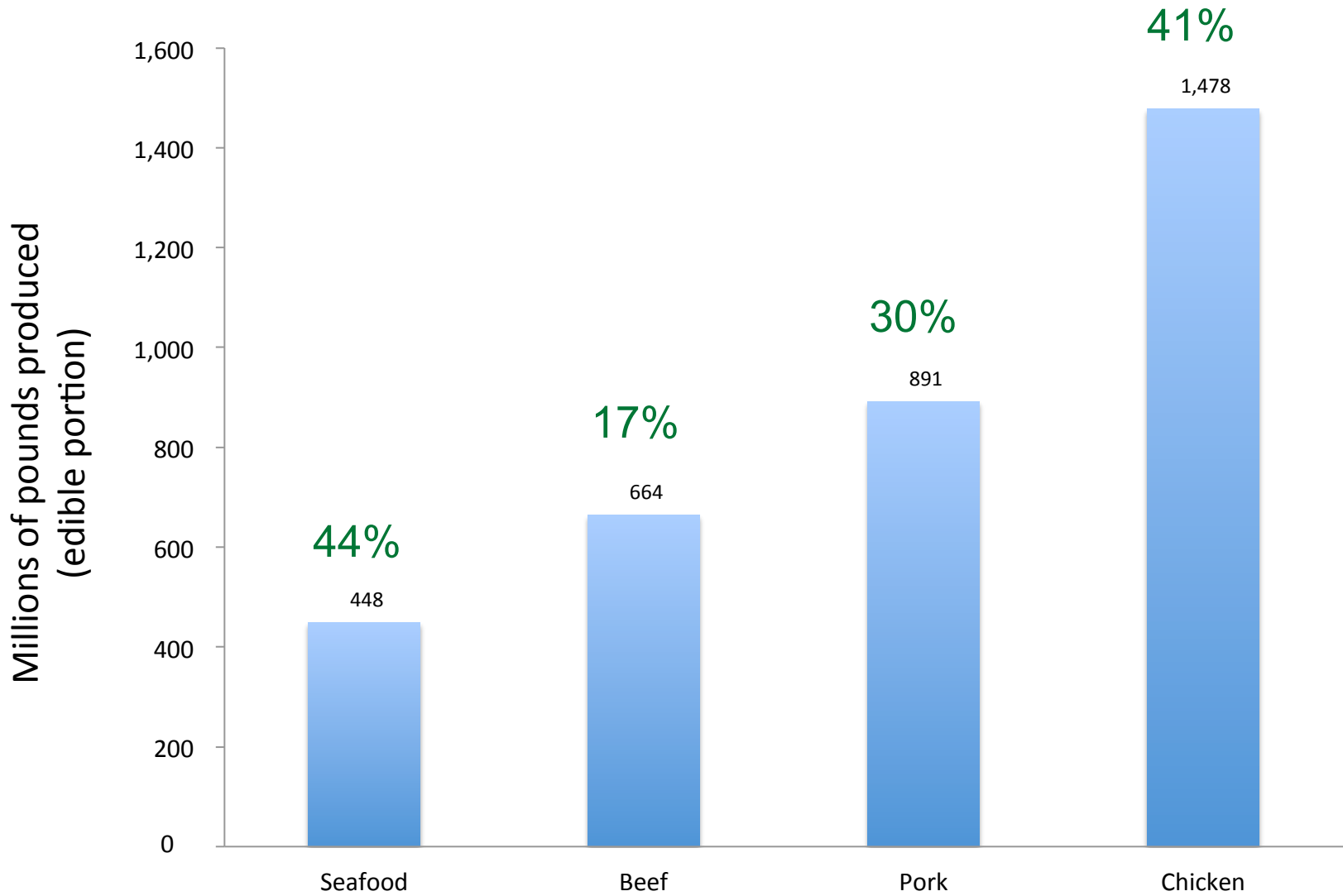
Melons

13

Sufficiency = (regional production / regional consumption) * 100



Northeast Regional Production from Meat Animals (mean, 2001-2010)





On a fluid milk equivalent basis, the region is about 75% self sufficient



Also about 71% self sufficient in egg production

Subsequent Questions:

If we were to grow more food within the region, *where* would that occur?

How would such shifts be impacted by drivers like climate change, dietary shifts, etc.?

How are production and consumption changes likely to be affected by policy??

A Team Effort

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Chris Peters

Nicole Tichenor

Ronit Ridberg

Zach Conrad

Ellen Tyler

Emily Piltch

Kat Loeck

Graham Jeffries