



Topics for Discussion

- Pushing vs. Pulling
- Overlapping scales in the food system
- Food self-reliance for New England, briefly
- Opportunities and Challenges



Pushing vs. Pulling



- Accounts for resource base
- Current and future production
- "Grow it and they will eat it"

- Role of consumer demand
- Willingness to pay
- Disparities in food access

Pushing and Pulling are Important Applies to many scales











Food Systems Scales and New England

- "The Local"
 - Tremendous interest
 - New England leads in direct to consumer
 - Rapid growth, from a small starting point
 - Conflated with scale, method of production, and

nutrition



- "The Industrial"
 - An assumption about scale (large)
 - Producing both feedstocks and foods
 - Provides a large portion of US food supply
 - Also conflated with many other characteristics



- "The Global"
 - The Corporate Food System
 - Viewed mostly from farm gate outward
 - Players might be large, small, local, etc.

- "The Regional"
 - Scale is variable (depends on who you ask)
 - More dependent on supply chains that Local
 - Potentially shorter supply chains than Industrial

Scales *Overlap*, and they should *Communicate* and *Compliment*



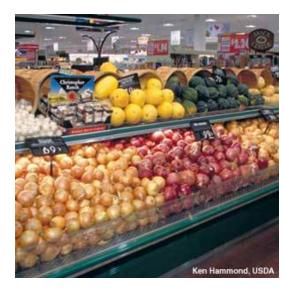
ie. they are not separate and distinct!

Supply Chains in Food Systems Research



Processing/Distribution

- Northeast region
- Market basket of products
- Price & access
- Supply chain characteristics
- Production capacity
- Scenario evaluations



Access in Communities



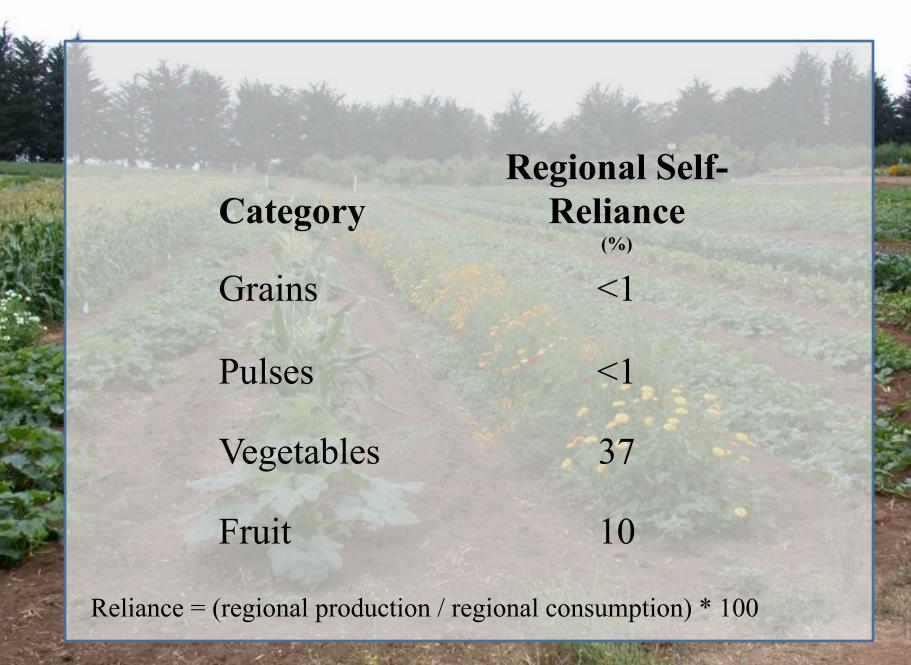
USDA-NIFA-Grant 2011-68004-30057

Farm-level Production

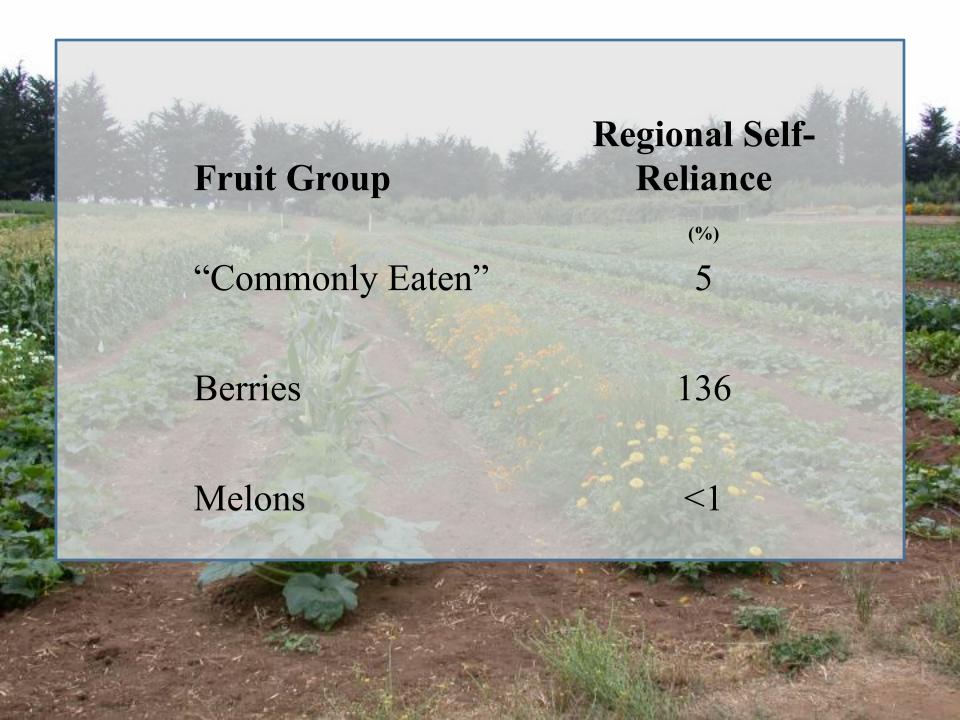
Regional Self Reliance for New England region =

Production / Consumption

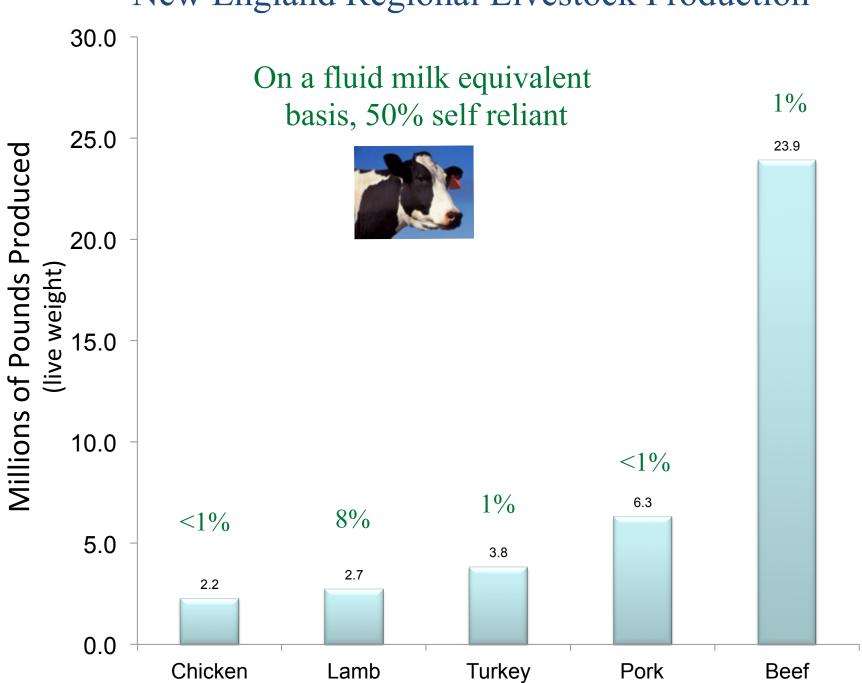




Vegetable Group	Regional Self- Reliance
Dark Green	(%)
Starchy	80
Red and Orange	9
Other	8



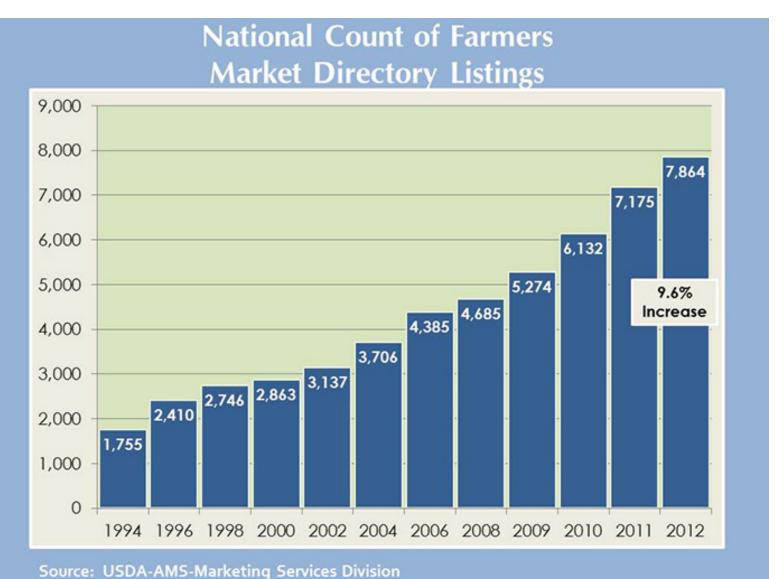
New England Regional Livestock Production



Opportunities and Challenges

Limits of direct-to-consumer, Building demand, Seasonality, Competitiveness, Aggregation, Strategic planning

Limits of Direct-to-Consumer



Limits of Direct-to-Consumer

- Seasonal availability (for produce anyway)
- Limited hours for markets
- Stratified consumer base
- Perception of higher prices

Building Demand

- A series of small wedges?
 - School districts working with multiple farms
 - Universities
 - Hospitals/health care facilities
 - Veggie prescriptions

Building Demand

- Regional supply chains that move food to population centers
- At the retail level
 - Assumed price premiums impact food access
 - Broad-based access to food from Maine and region

Seasonality

- Fresh food not available year-round from Maine
- Options for out-of-season availability depend on *food businesses*
 - Refrigeration and freezing
 - Processing
 - Manufacturing
 - Distribution to wholesale and retail

Competitiveness

- Higher input costs in the region
- Structures/arrangement to reduce costs in each sector or supply chain node?
- Smaller scale increases cost per unit
- Can we mimic economies of scale?

Aggregation

- Food hubs are *one* example
 - For-profit or non-profit
 - Single or multiple products
 - Farmer or community focus
- Conventional businesses also function to aggregate, at different places along the supply chain

Strategic Planning

- Within a state or region...
 - Which businesses are critical to expanding food economy?
 - What is the optimal location (geographically) for these businesses?
 - What are the investment opportunities for these ventures?
 - Coordination across state boundaries?



Thank You

