

Production Objective

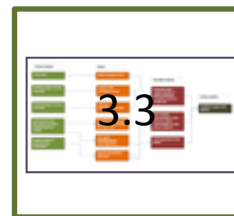
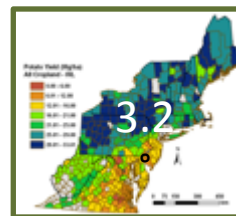
Objective 3.

Quantify the current and potential capacity of the urban and rural Northeast to produce food that meets consumer needs



For the Northeast region:

- Scales
- Capacity
- Location
- Drivers



Scales of Analysis

- Plants or groups of plants
- 30m by 30m grid for soils and land use
- Counties
- States
- The Northeast Region

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Capacity (or Capacities...)

- Baseline assessment – current production
- Regional self-reliance
- Urban and peri-urban systems
- Productivity and land use
- Foodprints and foodsheds
- Climate change and productivity

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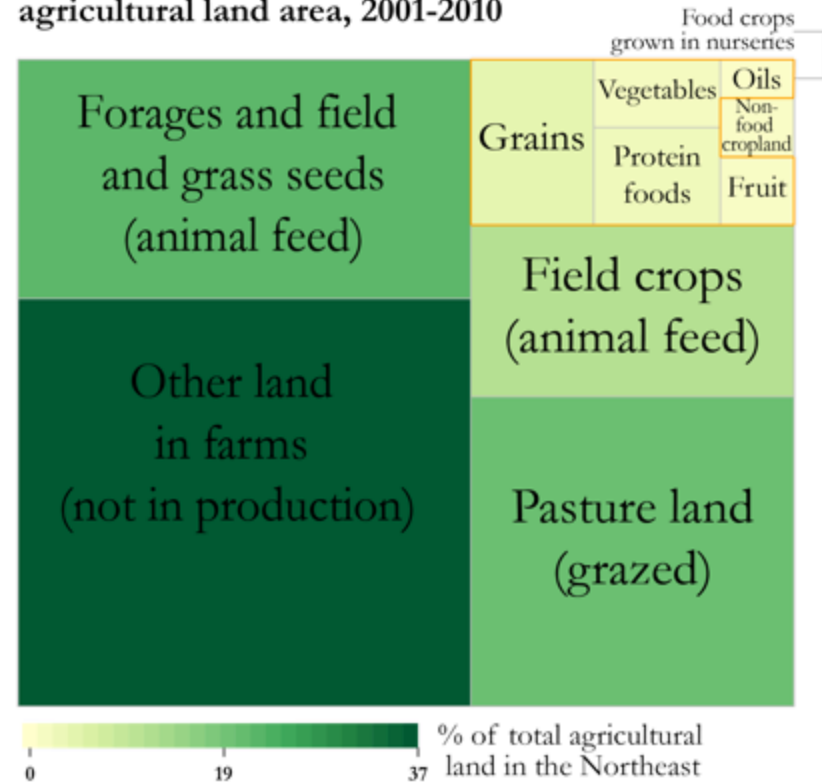


Current Production — Ag Land Use

Establish the baseline current production of foods in the Northeast.

- Acquire baseline:
 - Multiple data sources for production, acreage, land-use

Northeast regional mean agricultural land area, 2001-2010



SCALES OF ANALYSIS

BASELINE BALANCE

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Current Production — ‘Balance’

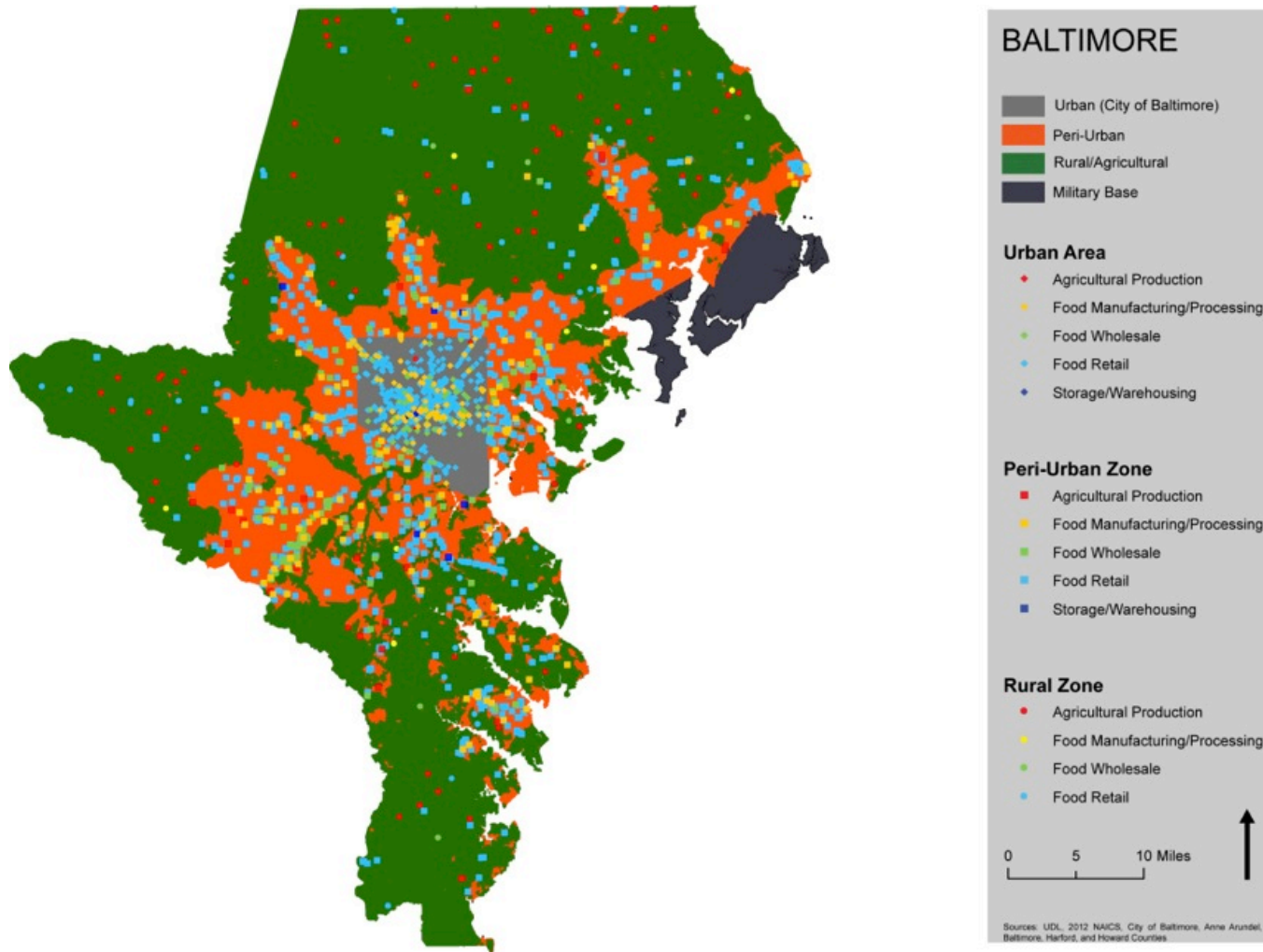
Establish current capacity to satisfy regional consumption needs:

Vegetable Group	Regional Self-Reliance
Dark Green	12%
Starchy	33%
Red and Orange	13%
Other	34%



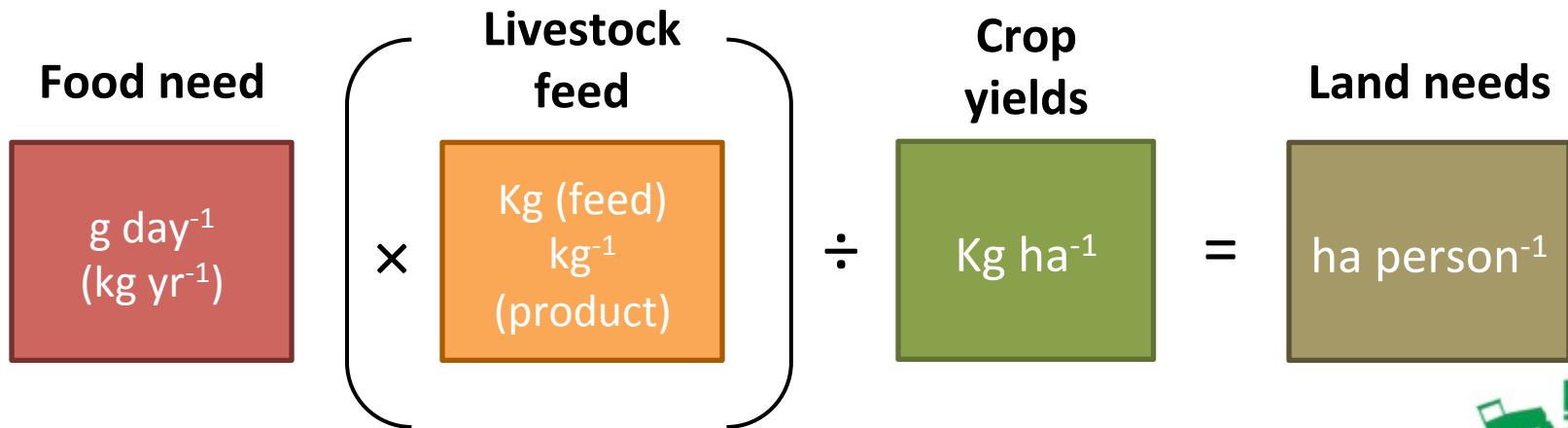
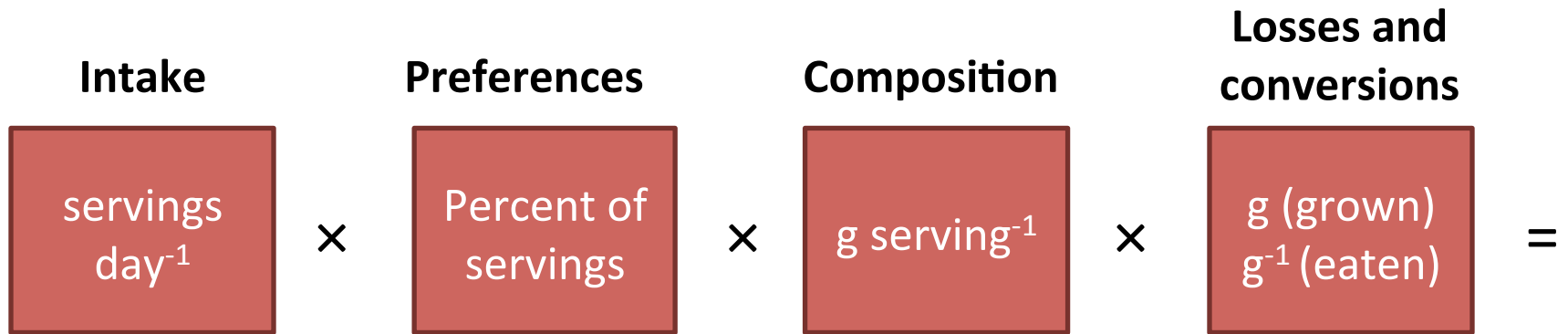
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Urban/Peri-urban/Rural Continuum Capacity *and* Location



Foodprint: Estimating dietary land requirements

Diets as Drivers

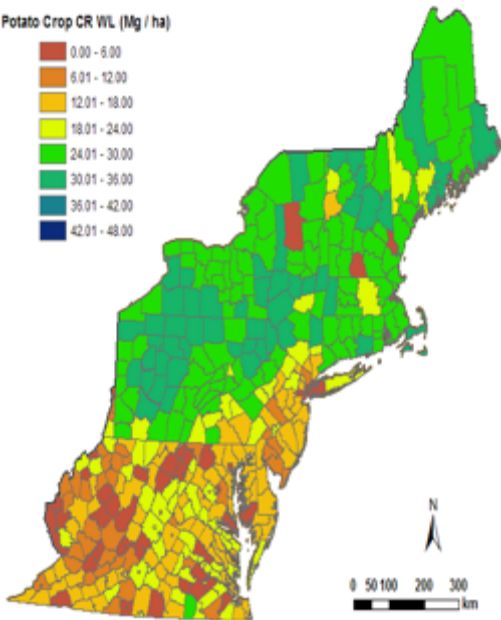
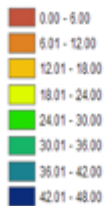


For animal-based foods only

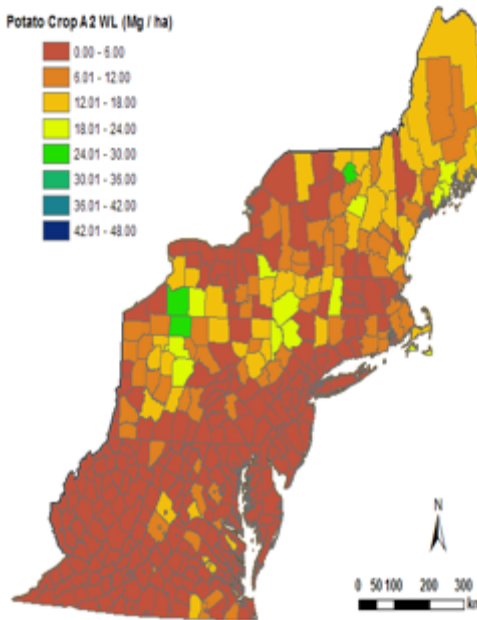
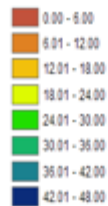
Production Scenarios

Location, Capacity and Drivers

Potato Crop CR WL (Mg / ha)



Potato Crop A2 WL (Mg / ha)



Percent Yield Declines	
Potato	
State	WL->A2
ME	-50
VT	-55
RI	-80
NH	-59
MA	-66
CT	-76
NY	-72
PA	-87
NJ	-71
MD	-87
DE	-90
WV	-79
VA	-76
MEAN	-70%

Inputs

Crop
Soils
Climate
Management
Land-Use

Scenarios

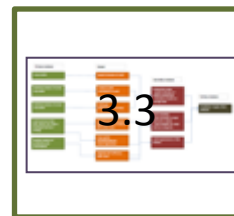
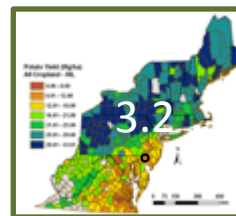
Management
Climate
change



Production Objective

More details available...

in the **PRODUCTION**
Breakout Session!



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