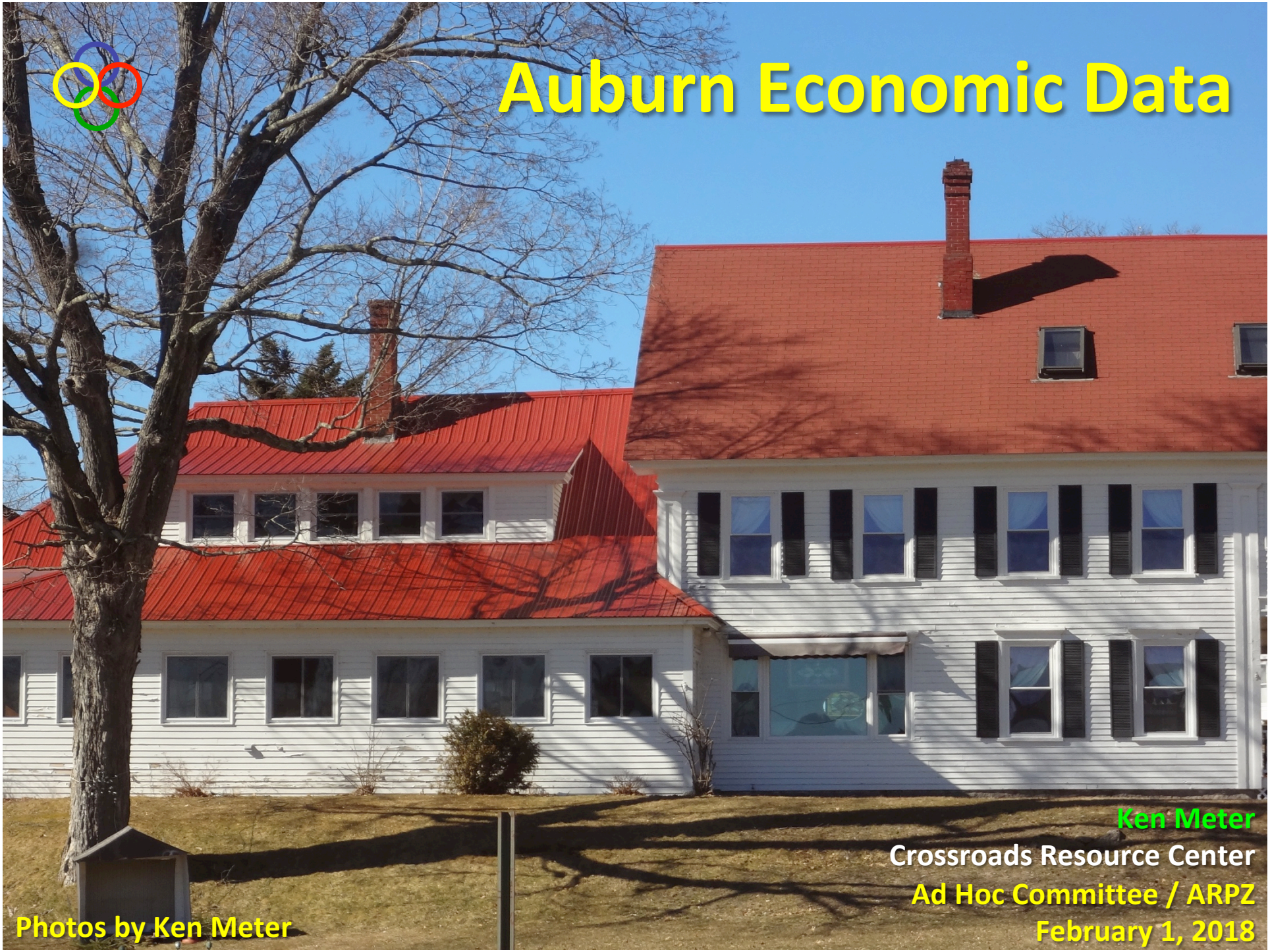
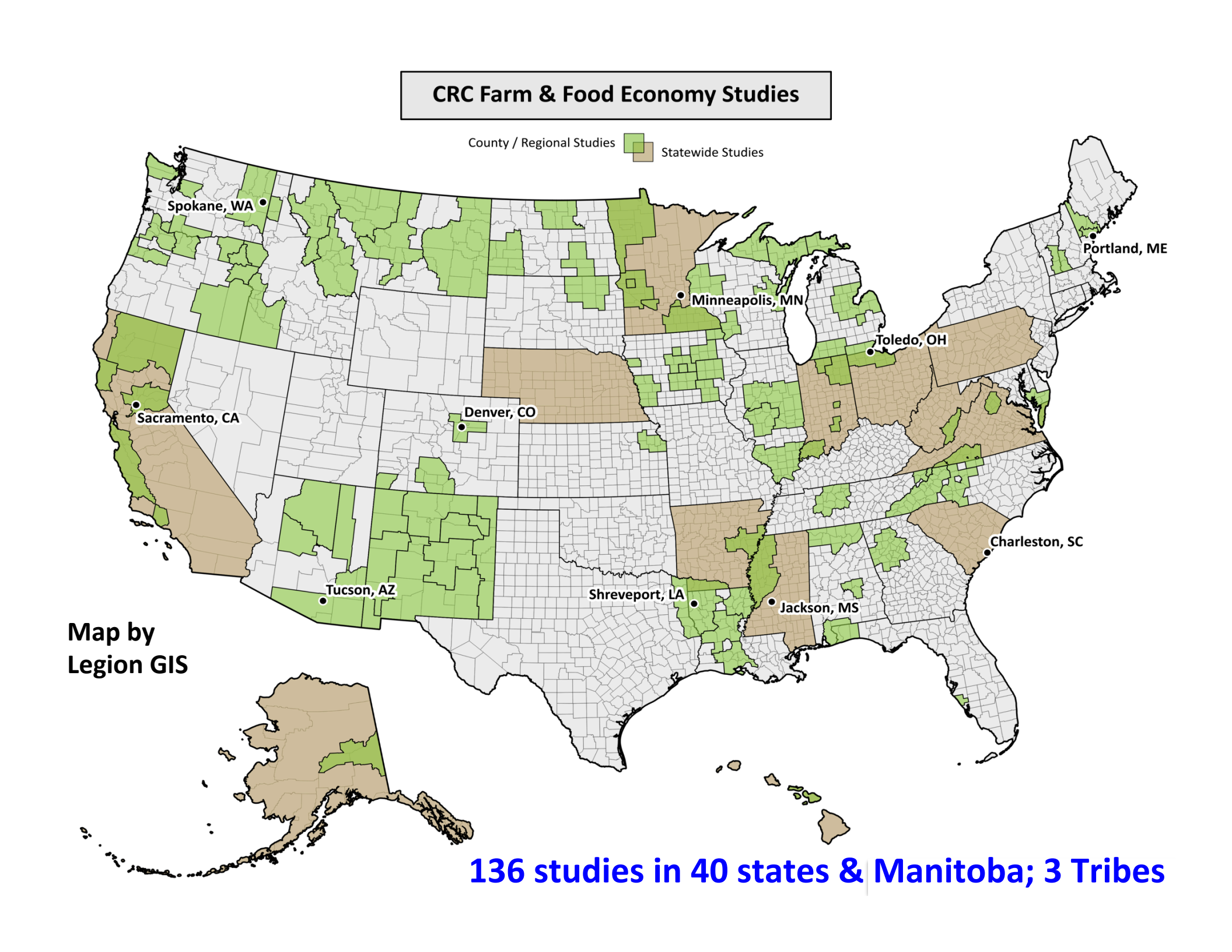

Auburn Economic Data
Ken Meter
Crossroads Resource Center
Ad Hoc Committee / ARPZ
February 1, 2018
Photos by Ken Meter

CRC Farm & Food Economy Studies



Map by Legion GIS

136 studies in 40 states & Manitoba; 3 Tribes



Corinna, Kurt, & Jed Bench **Elmore**, Ohio


Matt & Jerica Cadman
East Texas


Newt Lynn
7760
Cavett, Louisiana



Tax Parcels

- < 2 acres
- >= 2 acres

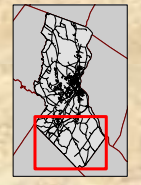
Soils

- All areas are prime farmland
- Farmland of statewide importance

2,000

Feet

Agricultural Soils Map City of Auburn South Section

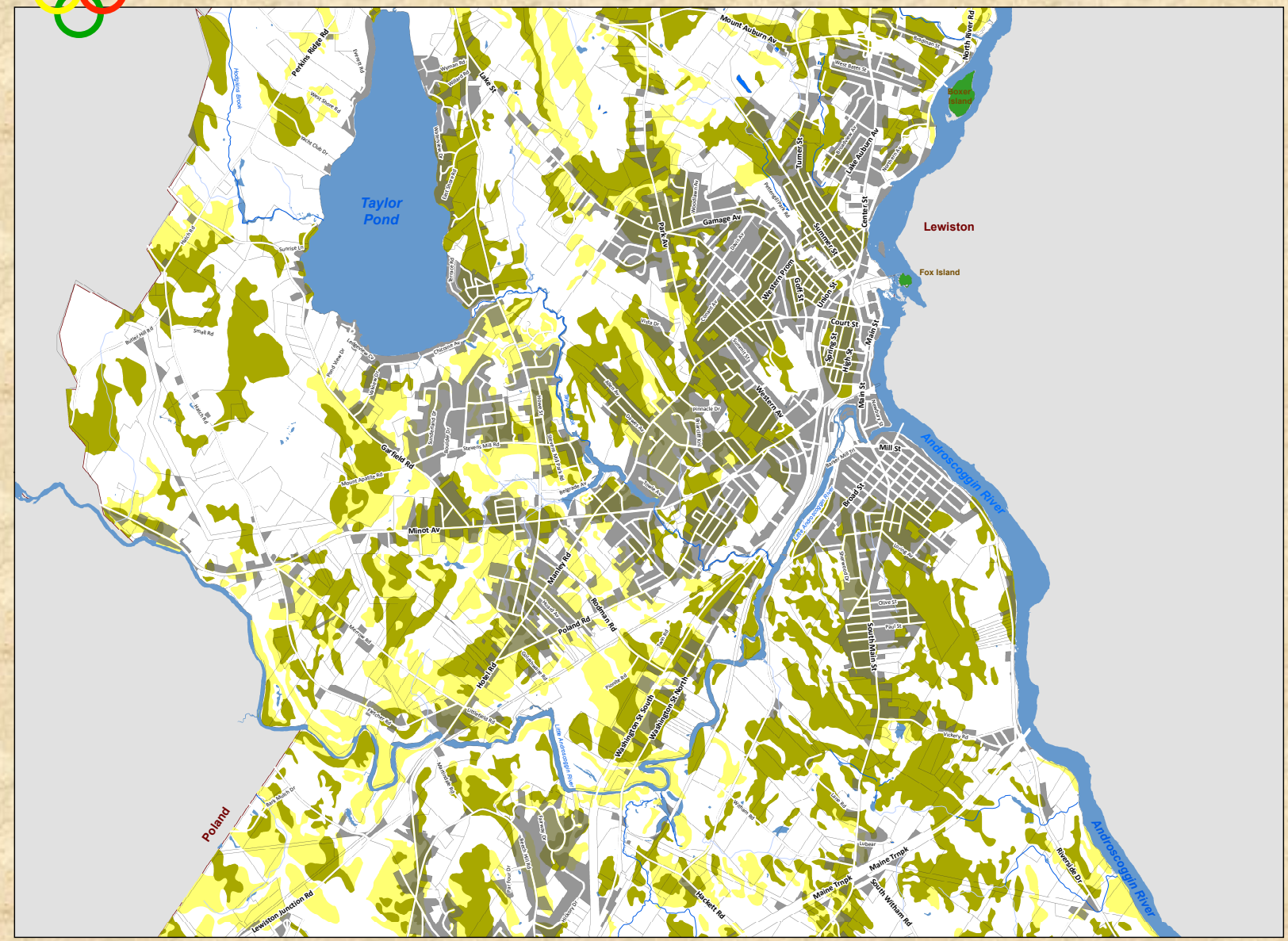


Notes:
Parcel Data provided by the City of Auburn.
Soils data from NRCS (https://websoilsurvey.sc.egov.usda.gov)

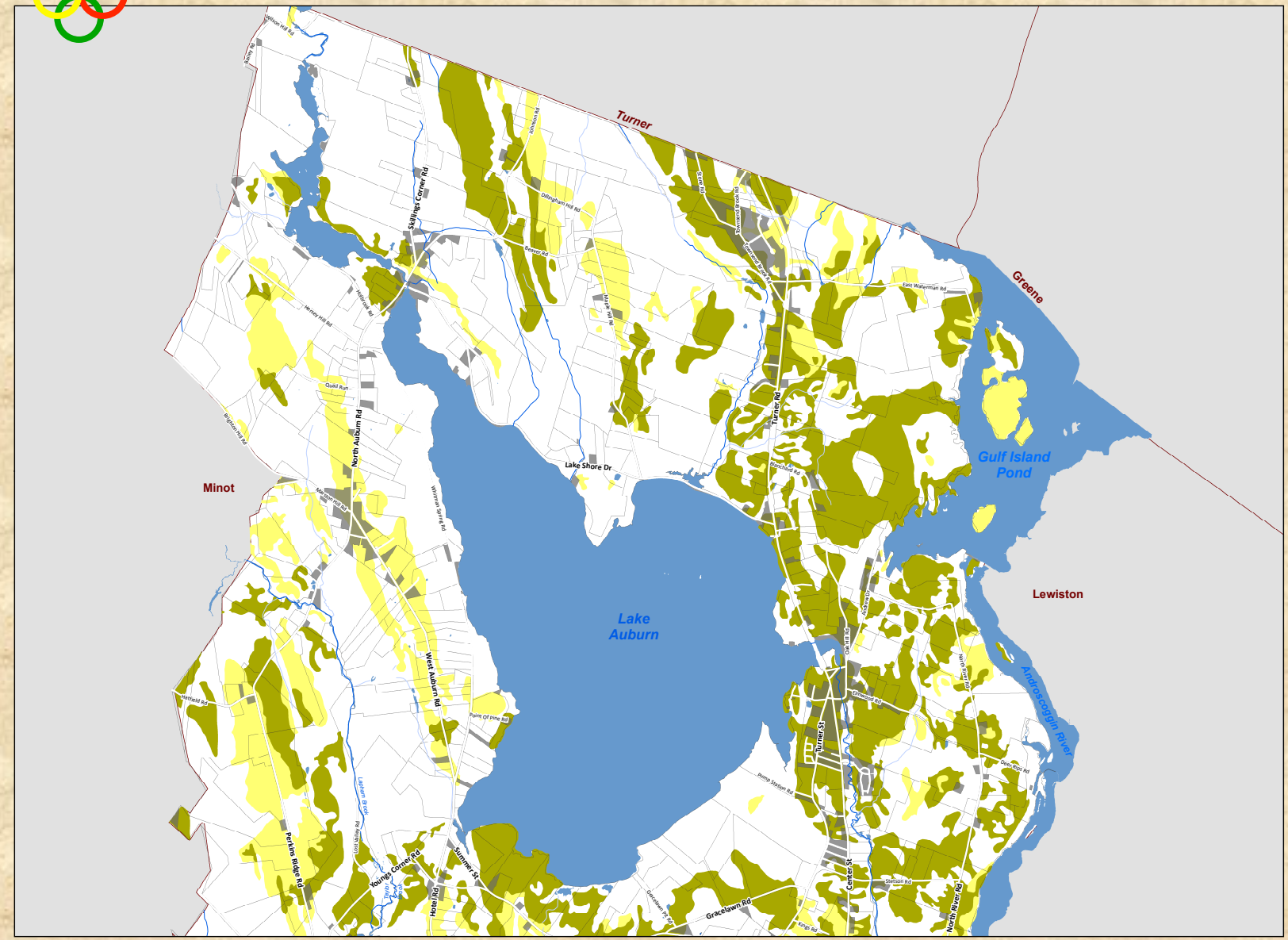
Map printed:
January 2018

Map Prepared by:
Spatial Alternatives
207.946.2365
www.spatialalternatives.com

Map by City of Auburn



Map by City of Auburn



Map by City of Auburn


P
OF
H
GRANGE
Sebago, Maine

Purposes of Ad Hoc Steering Committee:

1. Understand the agricultural and natural resource economic context in which Auburn farmers and consumers lead their daily lives.

2. Consider and possibly make recommendations for refining the Agriculture and Resource Protection Zoning (ARPZ) adopted by the City of Auburn in 1964 and amended in later years.


David Bell, Auburn, Maine

Initial ARPZ Ordinance 1964:

The 1964 ordinance established that protecting farmland in the City was in the public interest.

Purpose of ARPZ:

To concentrate new development close to downtown and major highways.

This was in large part to limit public costs for providing utility and school services…

While also maintaining an attractive community.

Initial ARPZ Ordinance:

Planners assumed that farm income would continue to decline and farm population would decrease.

Blackwell Report (1958)

Also assumed that Auburn's population would rise to "45,000-50,000 or more by the year 2000."

Actual population in 2016 was 22,948.


Maple Springs Farm, Harrison, Maine

Initial ARPZ Ordinance:

Studies also noted that marketing, processing, and distribution factors had a greater effect on agriculture than did land availability.

Initial ARPZ Ordinance:

Yet the ordinance did not address the potential for strengthening agriculture

Challenges to ARP Zoning

In the mid-1980s, developers sought to remove land from the ARPZ in favor of rural housing development.

While the Planning Board opposed taking this step, the City Council adopted a plan favoring rural residential development.

The courts struck this down.

Impact of ARP Zoning

A 1986 review of ARPZ found that farmland had indeed been protected.

The most significant loss of open agricultural land was due to forest growth on untilled fields.

Impact of ARP Zoning

In later years,
additional beltways were carved out of the ARPZ to allow more
Rural Residential development.


Crystal Spring Farm, Brunswick, Maine

ARP Zoning Reinforced in 2010 Comp Plan

The Auburn Comprehensive Plan (2010) encouraged greater flexibility in applying standards for ARP Zoning


Veterans Farmer Project, Fayetteville, Arkansas

Auburn Adopts Food Sovereignty Ordinance

Auburn City Council supported a local food system, not simply protecting farm and forest land, by adopting a Food Sovereignty Ordinance on August 21, 2017.

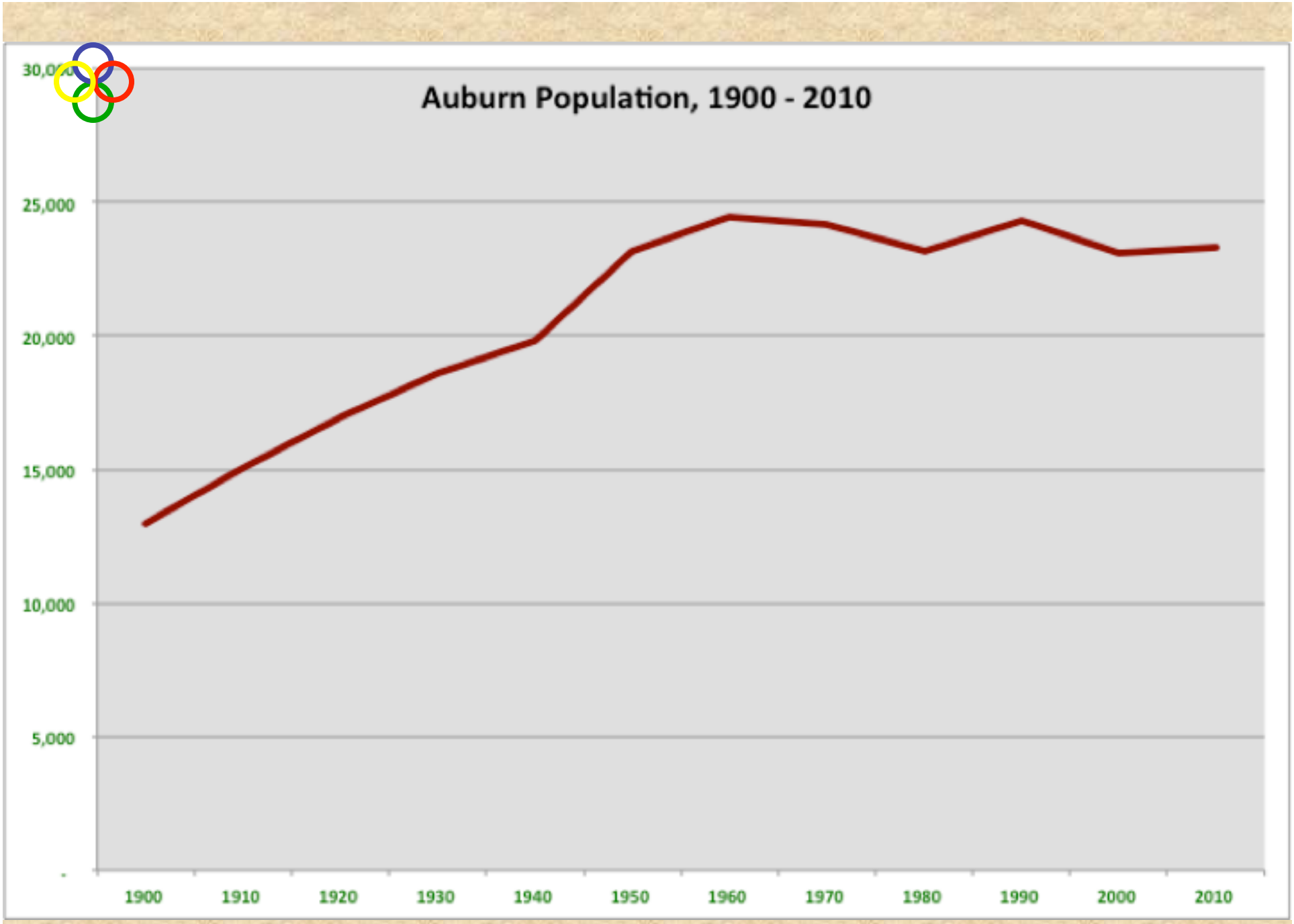
Auburn Adopts Food Sovereignty Ordinance

"The intent and purpose of Auburn's Food Sovereignty Ordinance is to ensure that residents are provided unimpeded access to local food and to reduce governmental regulation of the local food system to the fullest extent permitted by home rule authority…."

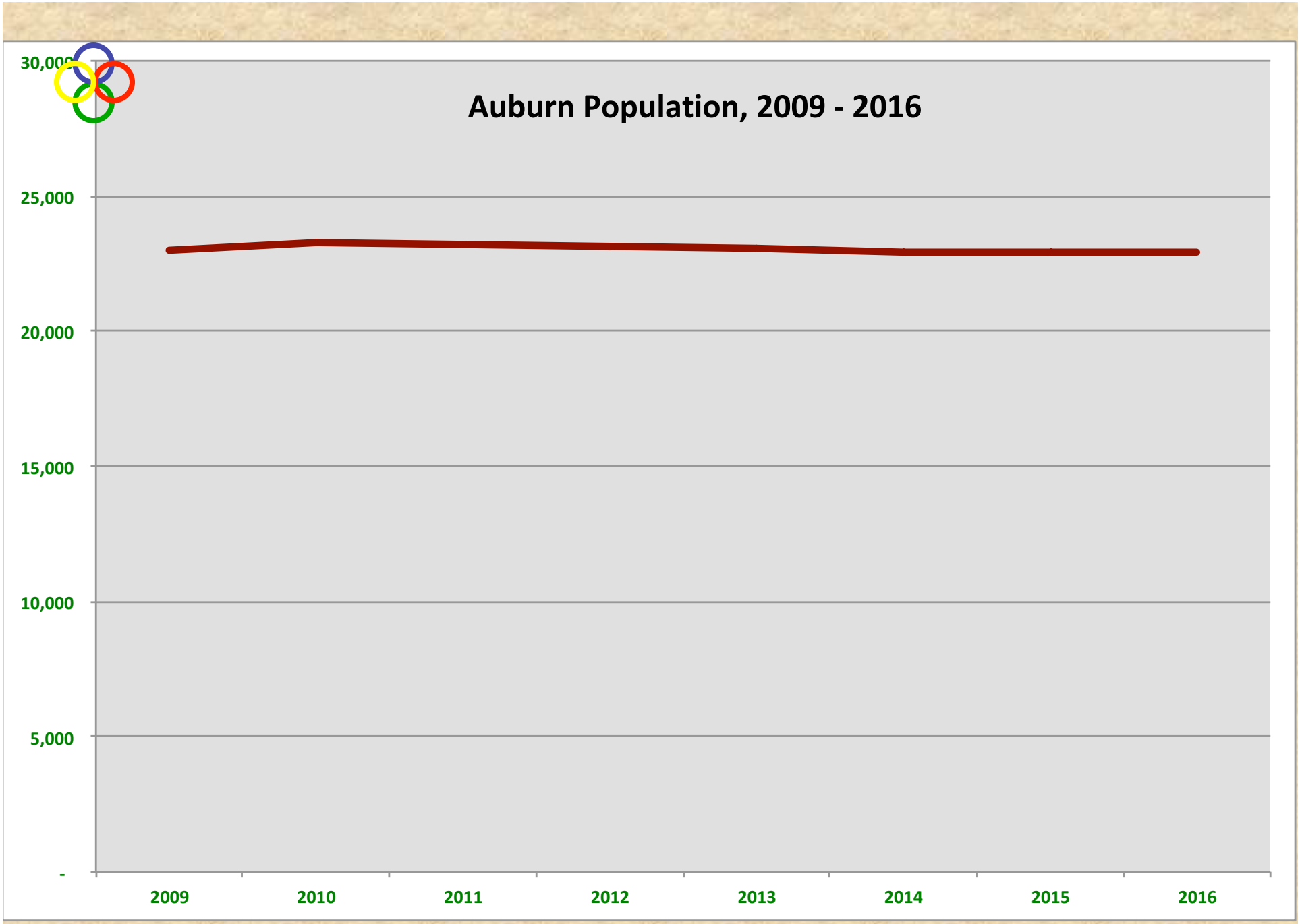

Seynab Ali
Lewiston, Maine


Hussein Muktar
Lewiston ME


Marché Jean Talon, Montreal, Canada



Federal Census



Federal Census

Auburn's Workforce

17,666 Workers

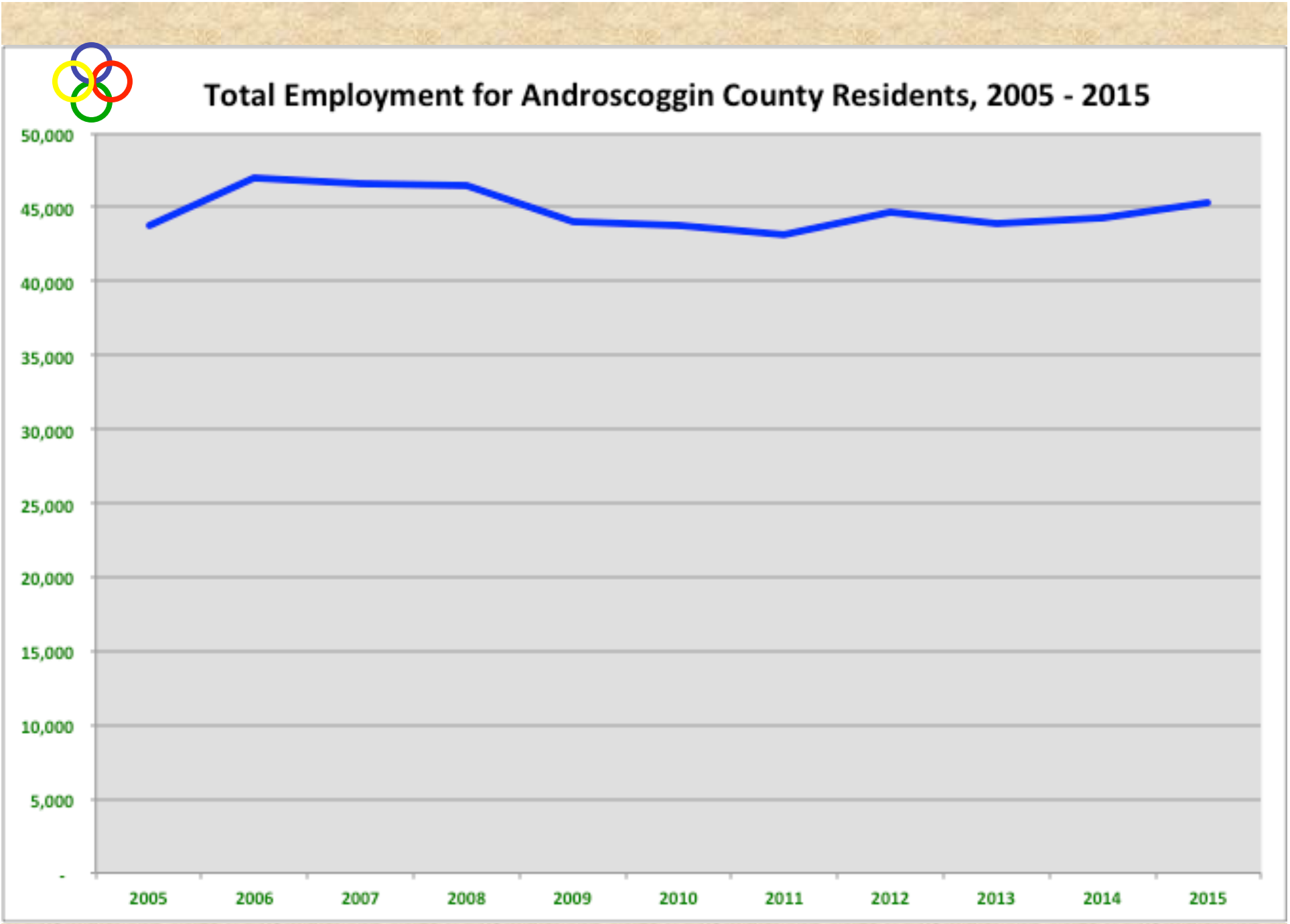
11,277 Live in the City

Median household income is $46,976

Unemployment rate is 1.2%

1,759 Veterans

Economic Modeling Specialists, Inc (EMSI), City of Auburn

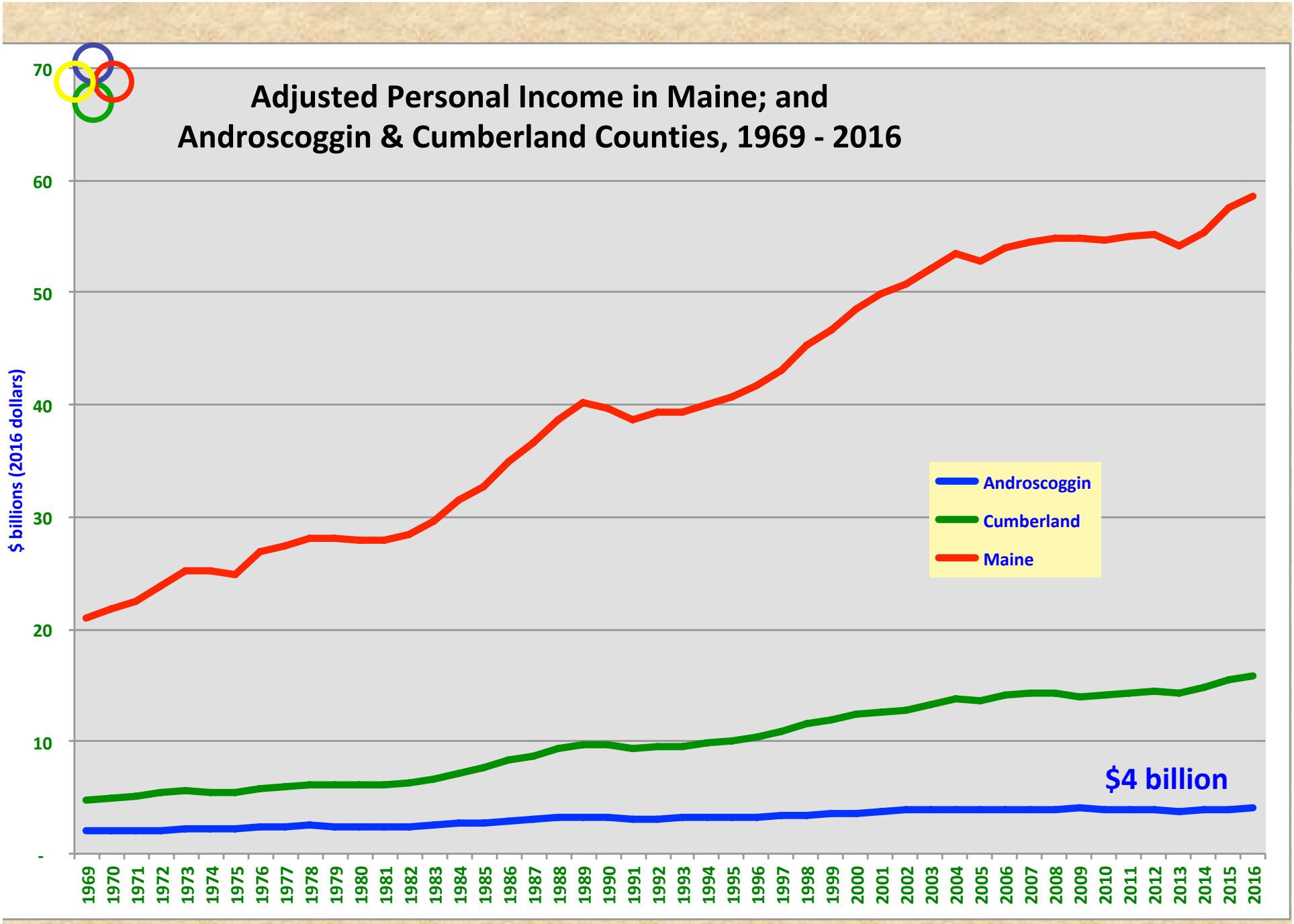


Federal Census

Auburn's Household Income

Residents earn about
$650 million annually

Federal Census 2012-2016



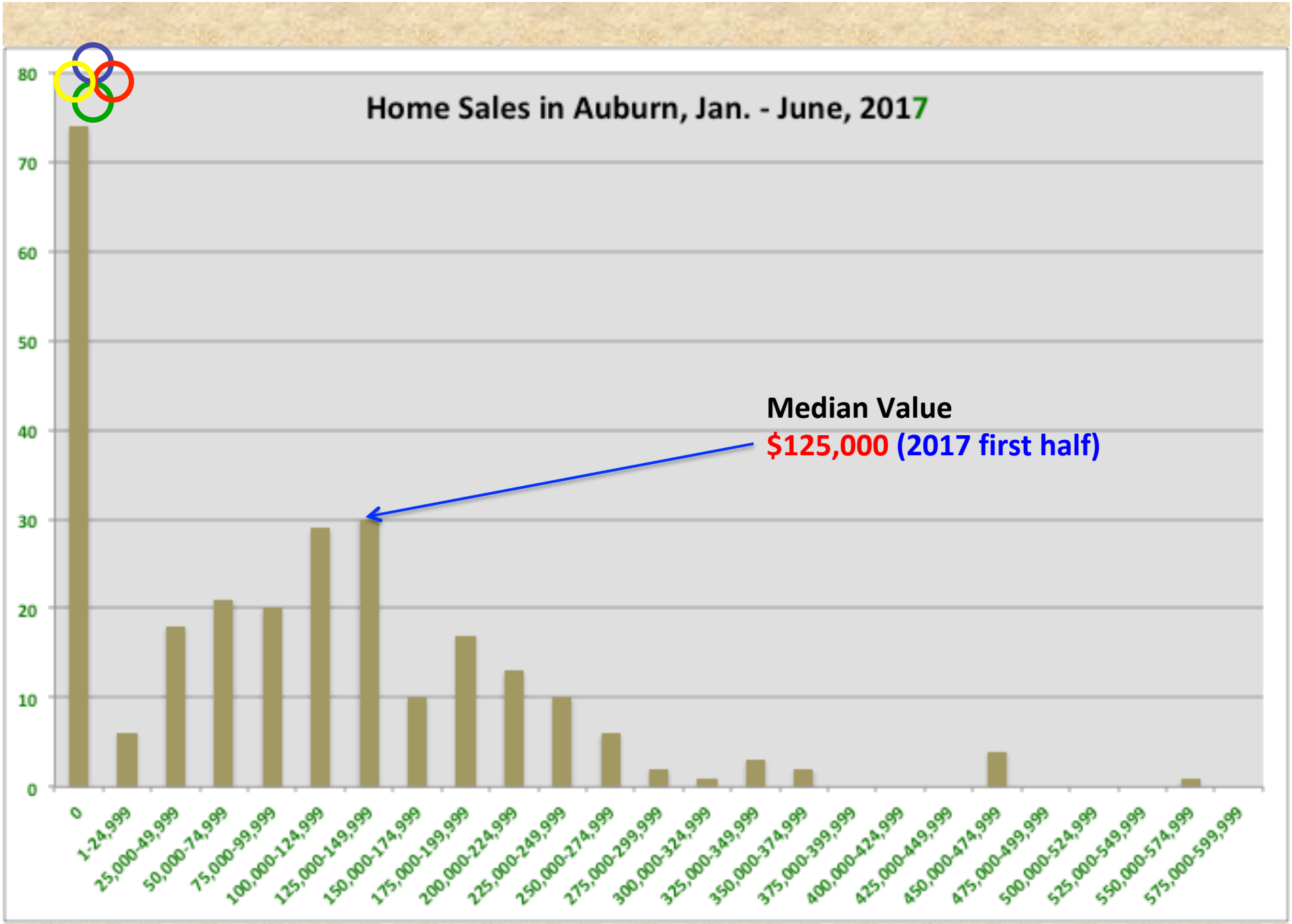
Bureau of Economic Analysis

Auburn's Workforce

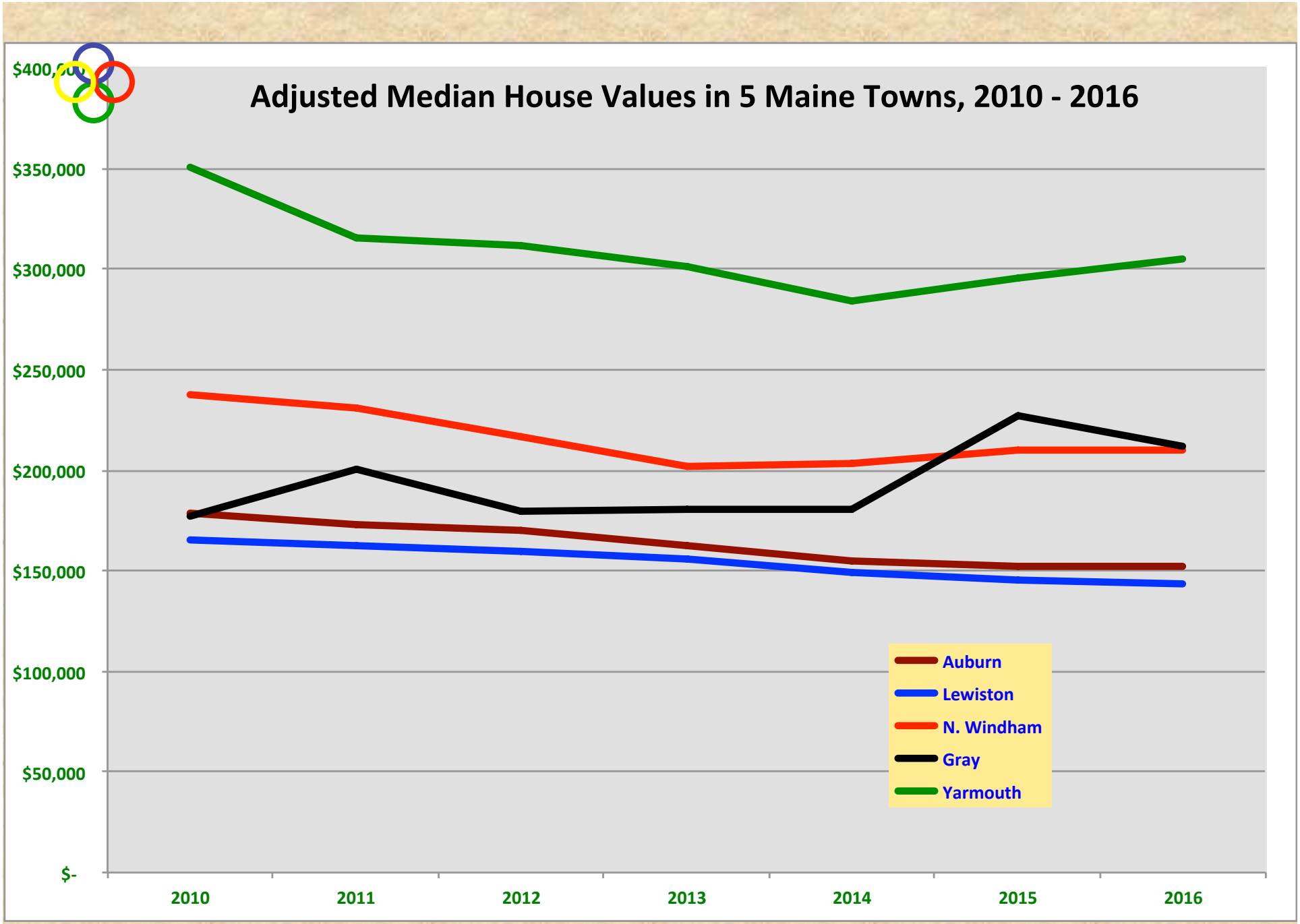
Nearly one of every three
Auburn residents lives
in a household earning less than
185% of the Federal Poverty Limit

[this is an estimate of a livable wage level]

Federal Census



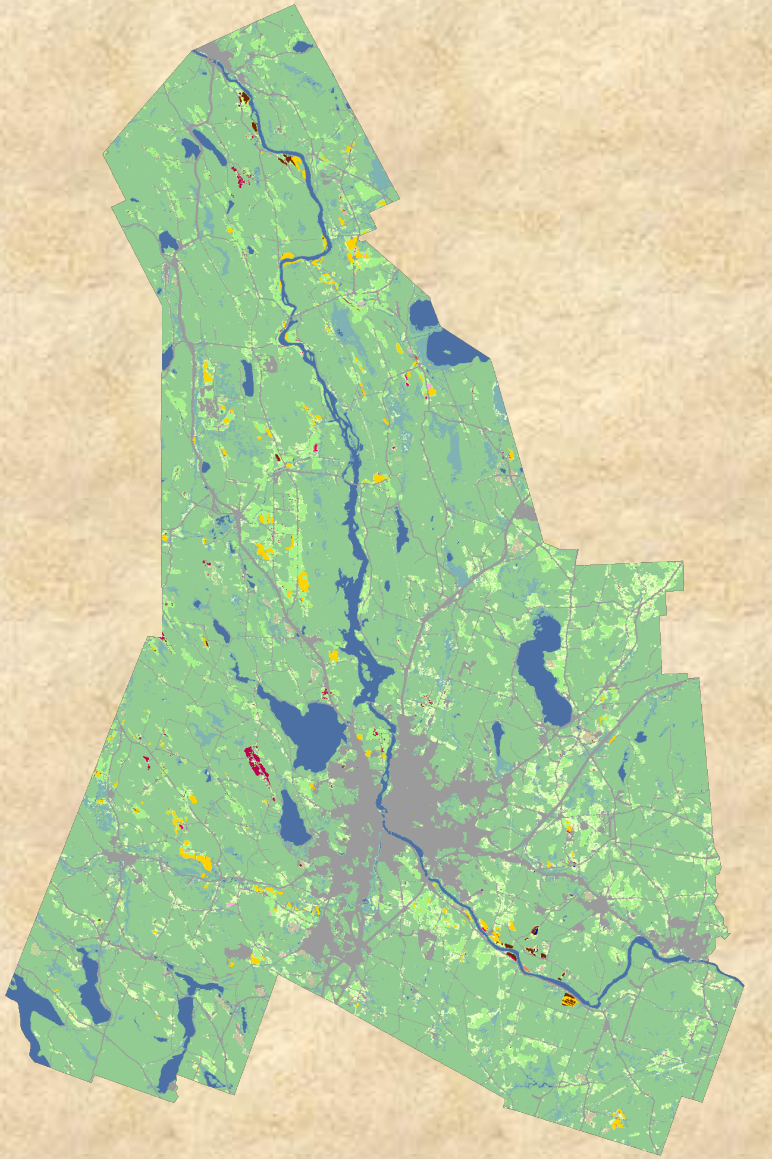
City of Auburn Assessor



Federal Census



Androscoggin County



0 2.20 4.40 6.60
miles

Land Cover Categories
(by decreasing acreage)

AGRICULTURE

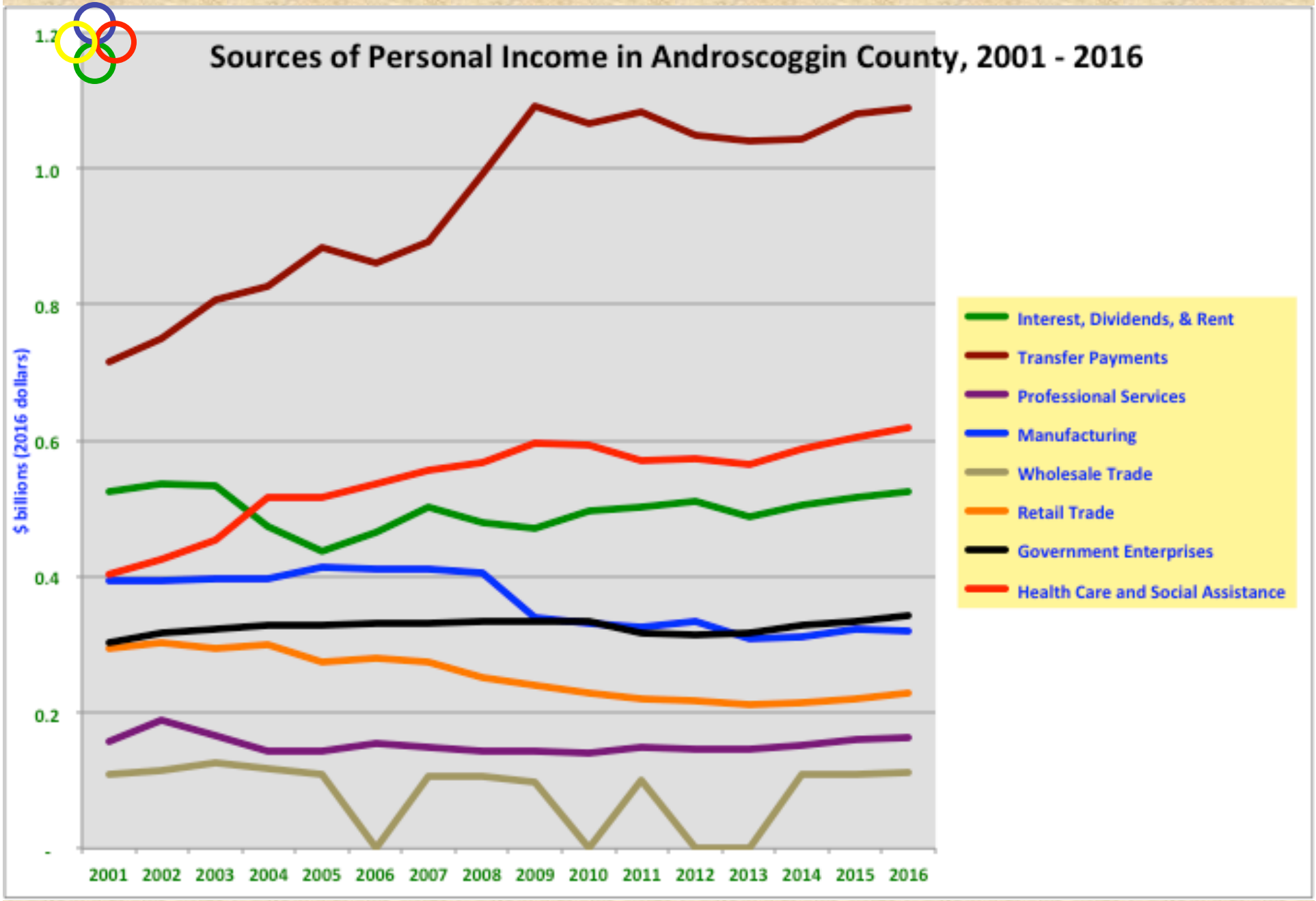
- Other Hay/Non Alfalfa
- Grass/Pasture
- Corn
- Apples
- Potatoes
- Alfalfa
- Barley
- Misc Vegs & Fruits
- Fallow/Idle Cropland
- Blueberries
- Oats
- Buckwheat
- Cranberries
- Rye
- Clover/Wildflowers

NON-AGRICULTURE*

- Mixed Forest
- Evergreen Forest
- Deciduous Forest
- Developed/Open Space
- Open Water
- Woody Wetlands

Produced by CropScape - http://nassgeodata.gmu.edu/CropScape

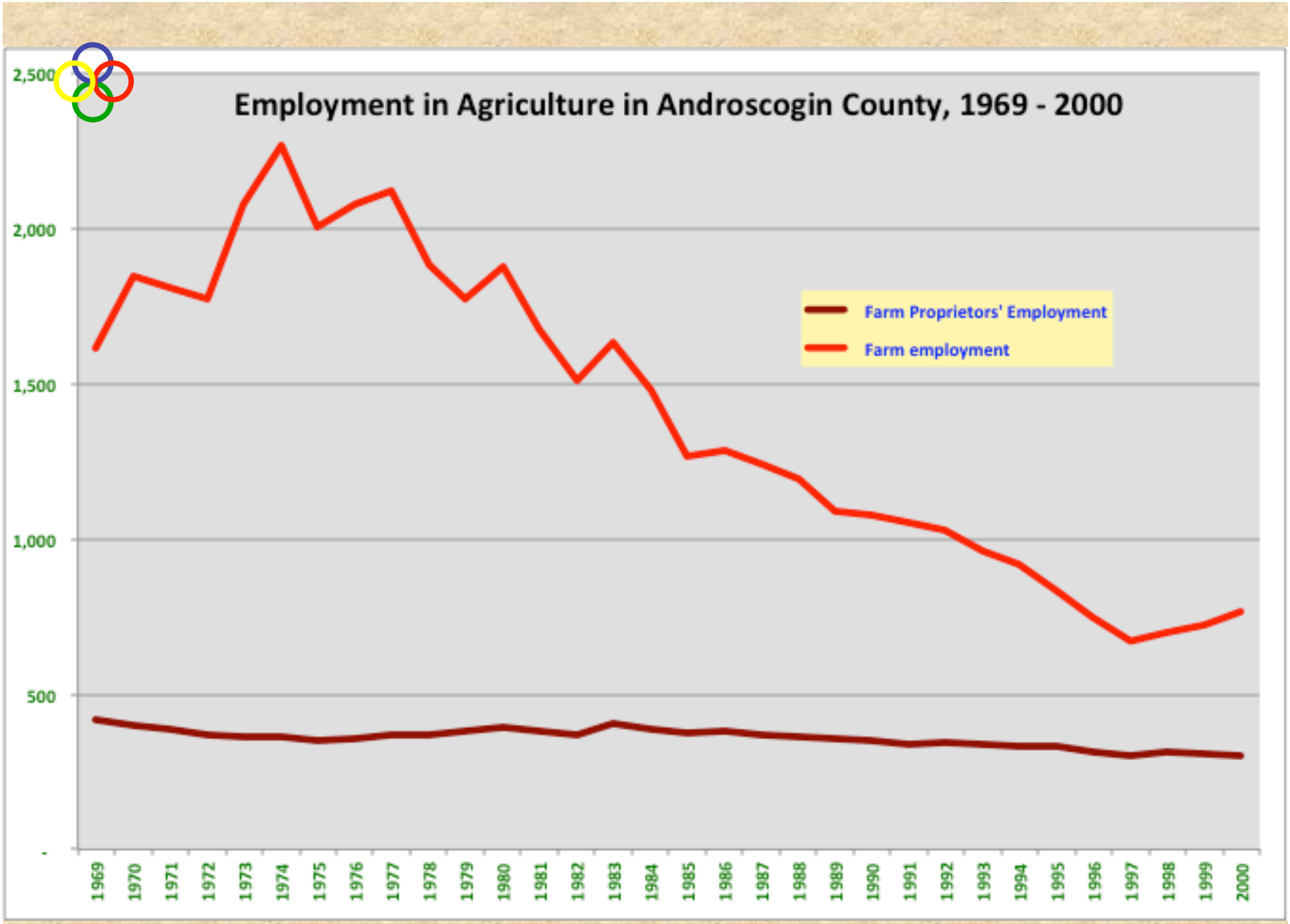
* Only top 6 non-agriculturecategories are listed.



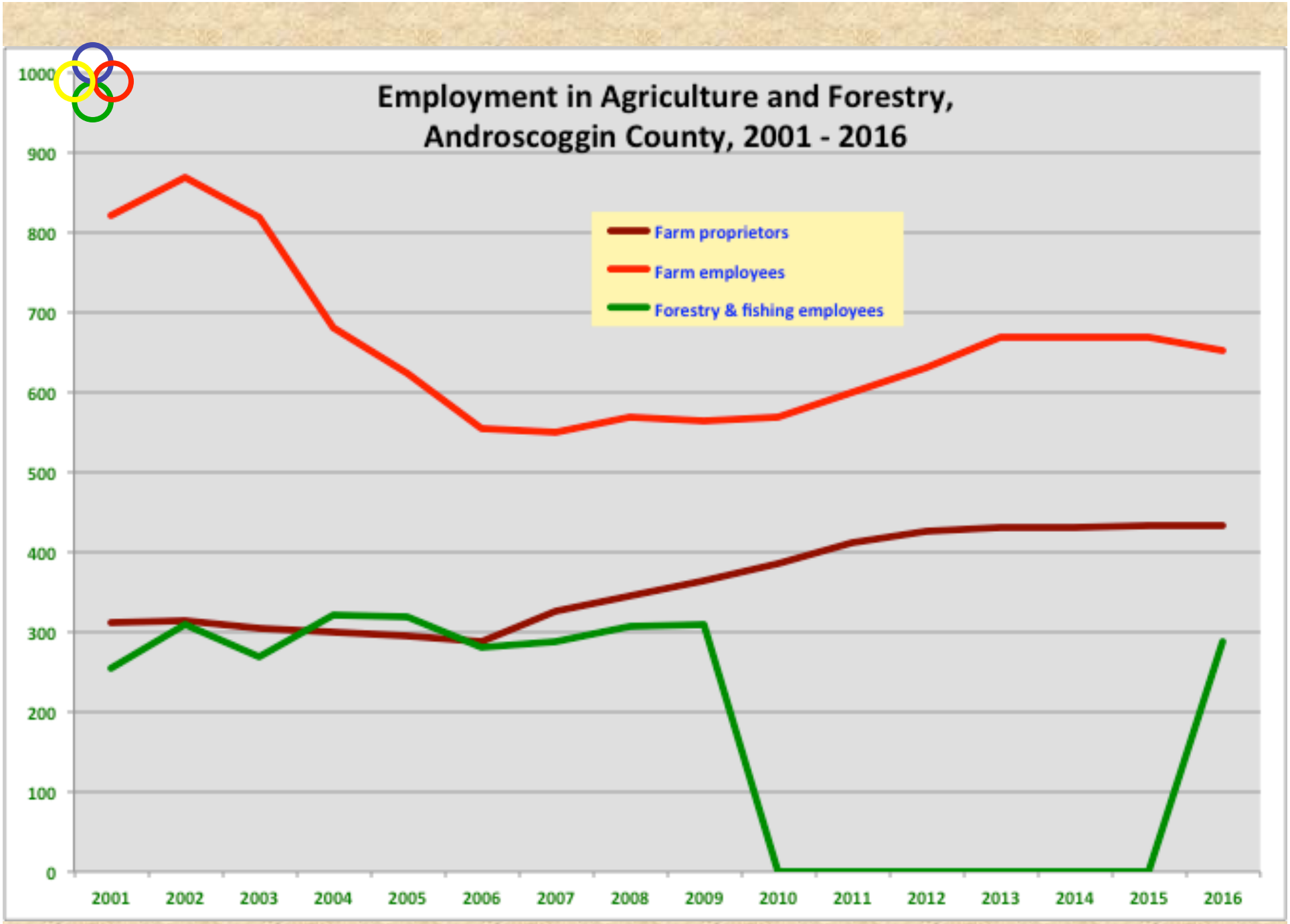
Bureau of Economic Analysis

35% of Androscoggin County
personal income depends
on government jobs & projects

Bureau of Economic Analysis



Bureau of Economic Analysis



Bureau of Economic Analysis

Androscoggin County Employment

The 12 largest industries account for 35% of all County employment

Androscoggin County Employment

NAICS Code	Industry	Jobs 2016
622110	General Medical and Surgical Hospitals	3,953
903611	Elementary and Secondary Schools (Local Government)	2,846
611310	Colleges, Universities, and Professional Schools	1,751
903999	Local Government, Excluding Education and Hospitals	1,459
561320	Temporary Help Services	1,260
561422	Telemarketing Bureaus and Other Contact Centers	1,253
722511	Full-Service Restaurants	1,187
551114	Corporate, Subsidiary, and Regional Managing Offices	1,175
623210	Residential Intellectual and Developmental Disability Facilities	1,164
623110	Nursing Care Facilities (Skilled Nursing Facilities)	1,095
722513	Limited-Service Restaurants	1,049
445110	Supermarkets and Other Grocery (except Convenience) Stores	1,038
	Total	**19,231**

Androscoggin County Employment

Three of the top 12 industries in the County involve food,

with restaurants and supermarkets hiring 3,274 workers.

This is 6% of the County workforce

EMSI

Androscoggin County Employment

While restaurants and supermarkets are among the County's larger employers,

they do not necessarily pay the highest salaries


Coeur d’Alene Tribe, Idaho

Androscoggin County Employment (Food)

NAICS	Industry	2016 Jobs
722511	Full-Service Restaurants	1,187
722513	Limited-Service Restaurants	1,049
445110	Supermarkets and Other Grocery (except Convenience) Stores	1,038
312112	Bottled Water Manufacturing	416
722515	Snack and Nonalcoholic Beverage Bars	404
112000	Animal Production and Aquaculture	391
311812	Commercial Bakeries	315
111000	Crop Production	190
424490	Other Grocery and Related Products Merchant Wholesalers	185
722310	Food Service Contractors	166
445120	Convenience Stores	119
722410	Drinking Places (Alcoholic Beverages)	101
312140	Distilleries	85
424810	Beer and Ale Merchant Wholesalers	85
445310	Beer, Wine, and Liquor Stores	63
423820	Farm and Garden Machinery and Equipment Merchant Wholesalers	59
311811	Retail Bakeries	55
445230	Fruit and Vegetable Markets	33
311824	Dry Pasta, Dough, and Flour Mixes Manufacturing	32
311612	Meat Processed from Carcasses	23
312120	Breweries	18
311941	Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing	12
311511	Fluid Milk Manufacturing	-

Androscoggin County Employment

If Crop and Livestock Production were combined,

they would rank fourth
in food-sector employment
in the County, with 581 jobs


Huntsville, Alabama

Androscoggin County Farms, 2012

463 Farms

59,446 acres of land in farms

ARPZ district holds 1 of every 3 farm acres in County

Census of Agriculture 2012

Androscoggin County Farms, 2012

463 Farms

Half are less than 50 acres

8 are larger than 1,000 acres

Census of Agriculture 2012

Androscoggin County Farms, 2012

463 Farms

67% sold less than $10,000

8% sold more than $100,000

Census of Agriculture 2012

Androscoggin County Farms, 2012

463 Farms

Sold $54 million of farm products in 2012

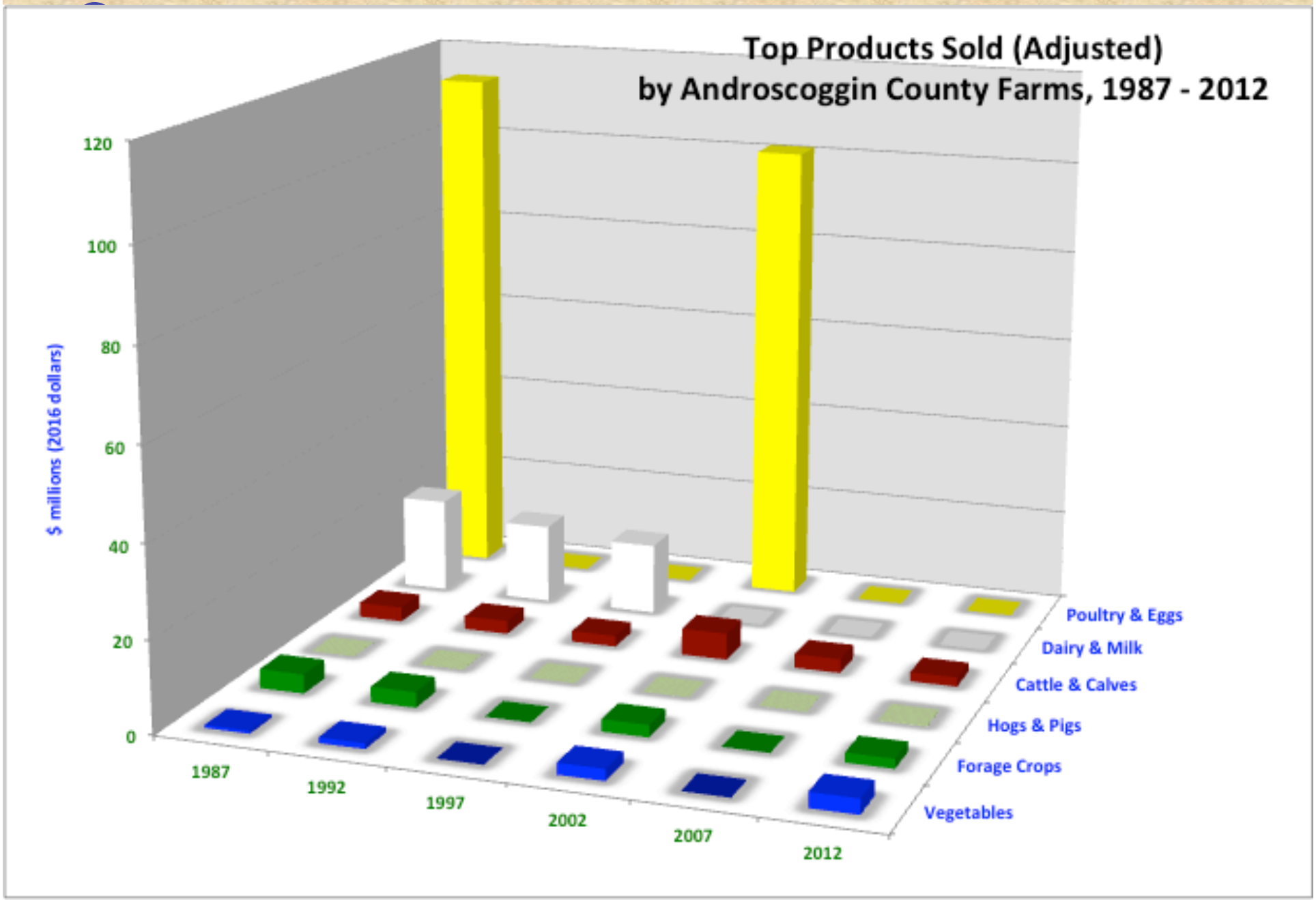
$42 million of livestock
$12 million of crops

Census of Agriculture 2012

Sales by Androscoggin County Farms, 2012

	$ millions
Poultry & eggs	(no data released)
Milk & Dairy Products	(no data released)
Forage crops	3.6
Vegetables	3.2
Cattle & calves	1.9
Hogs & Pigs	(no data released)

Census of Agriculture 2012

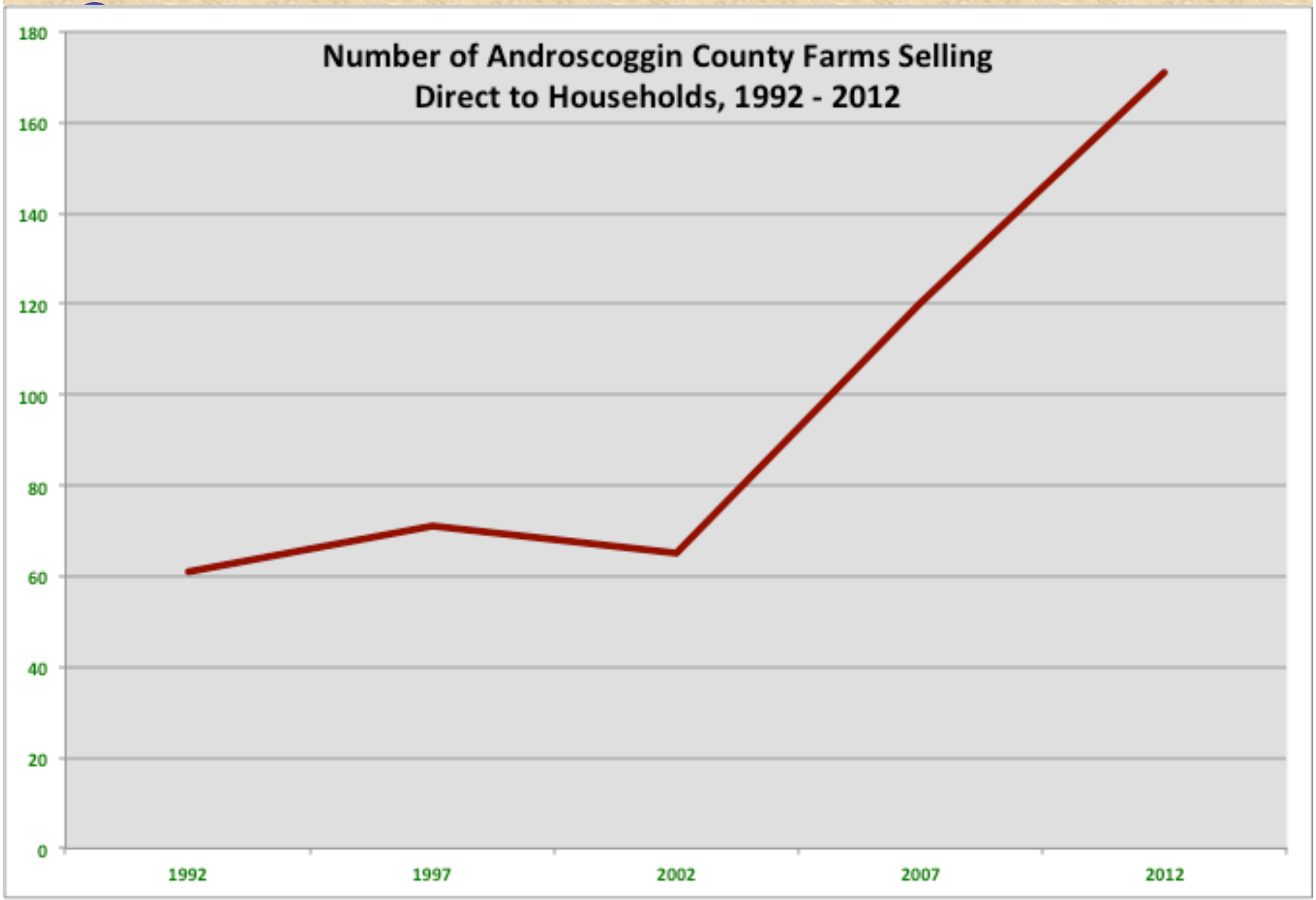


Census of Agriculture

Vegetable growing
is the main sector
of the County farm economy
that is expanding

Census of Agriculture, 2012


Bell Farms, Auburn

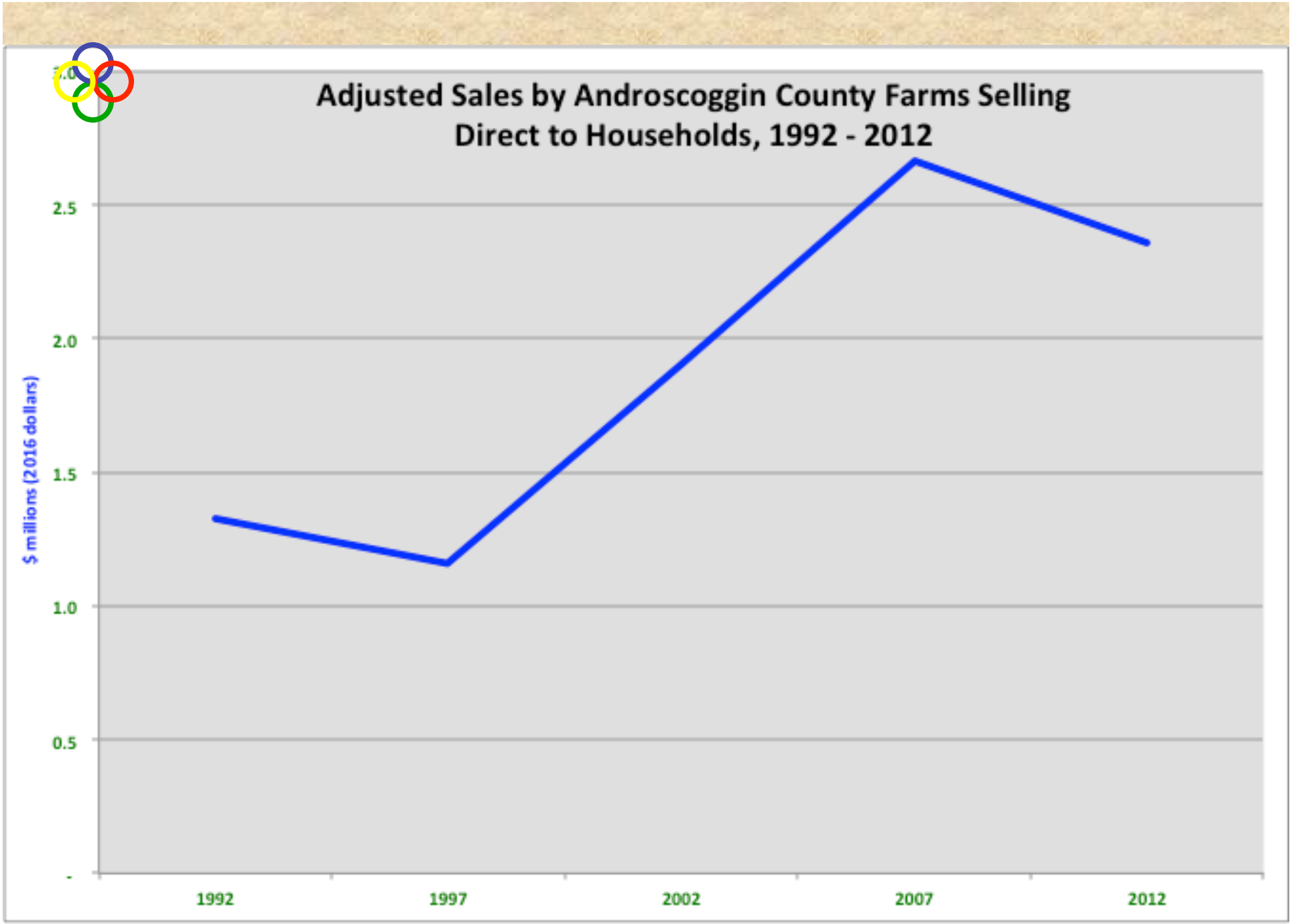


Census of Agriculture, 1992 - 2012

The number of farms selling direct to households increased markedly (nearly tripling) from 65 in 2002 to 171 in 2012.

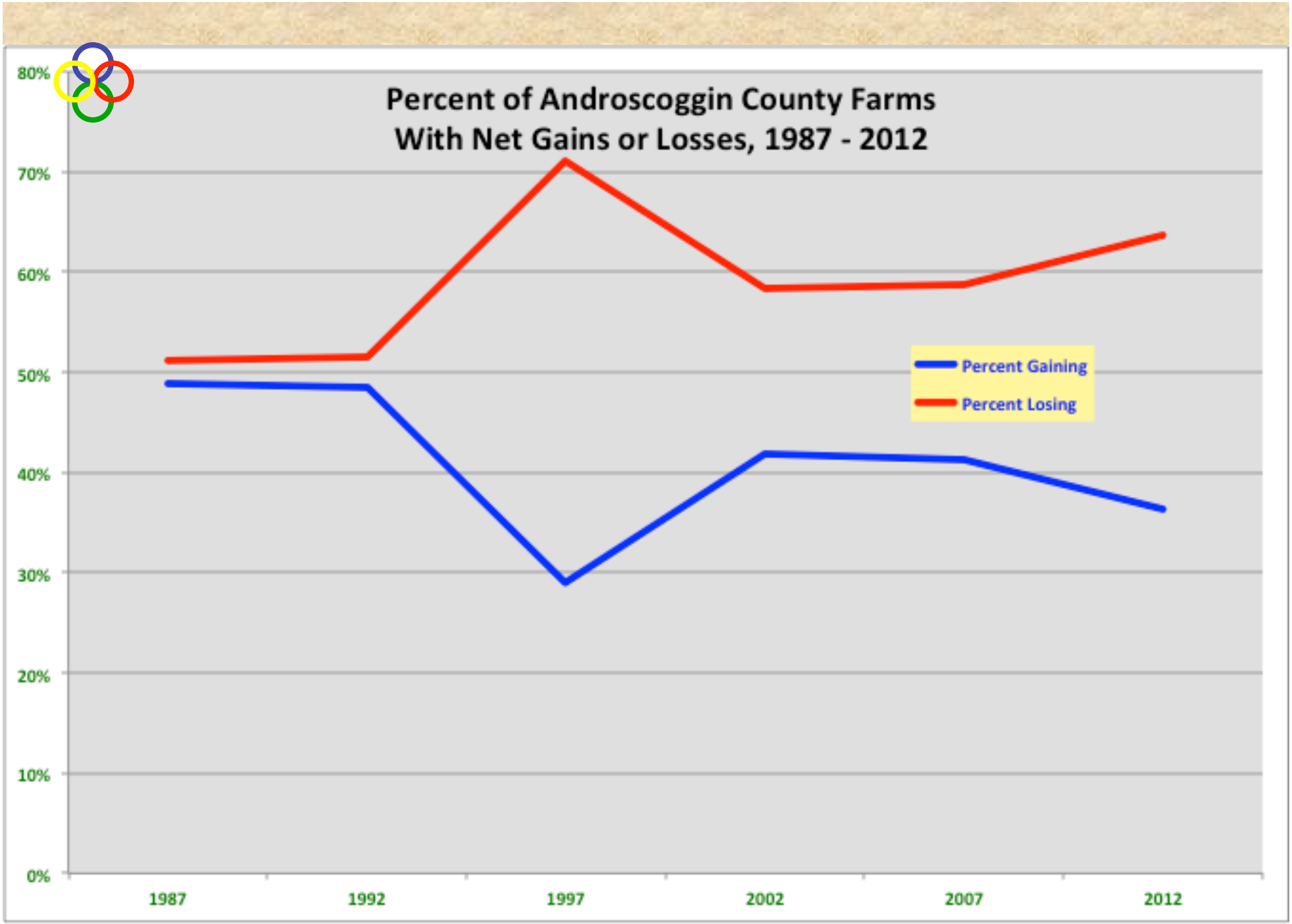
37% of farms now sell direct

Census of Agriculture, 2002 - 2012



Census of Agriculture, 1992 - 2012

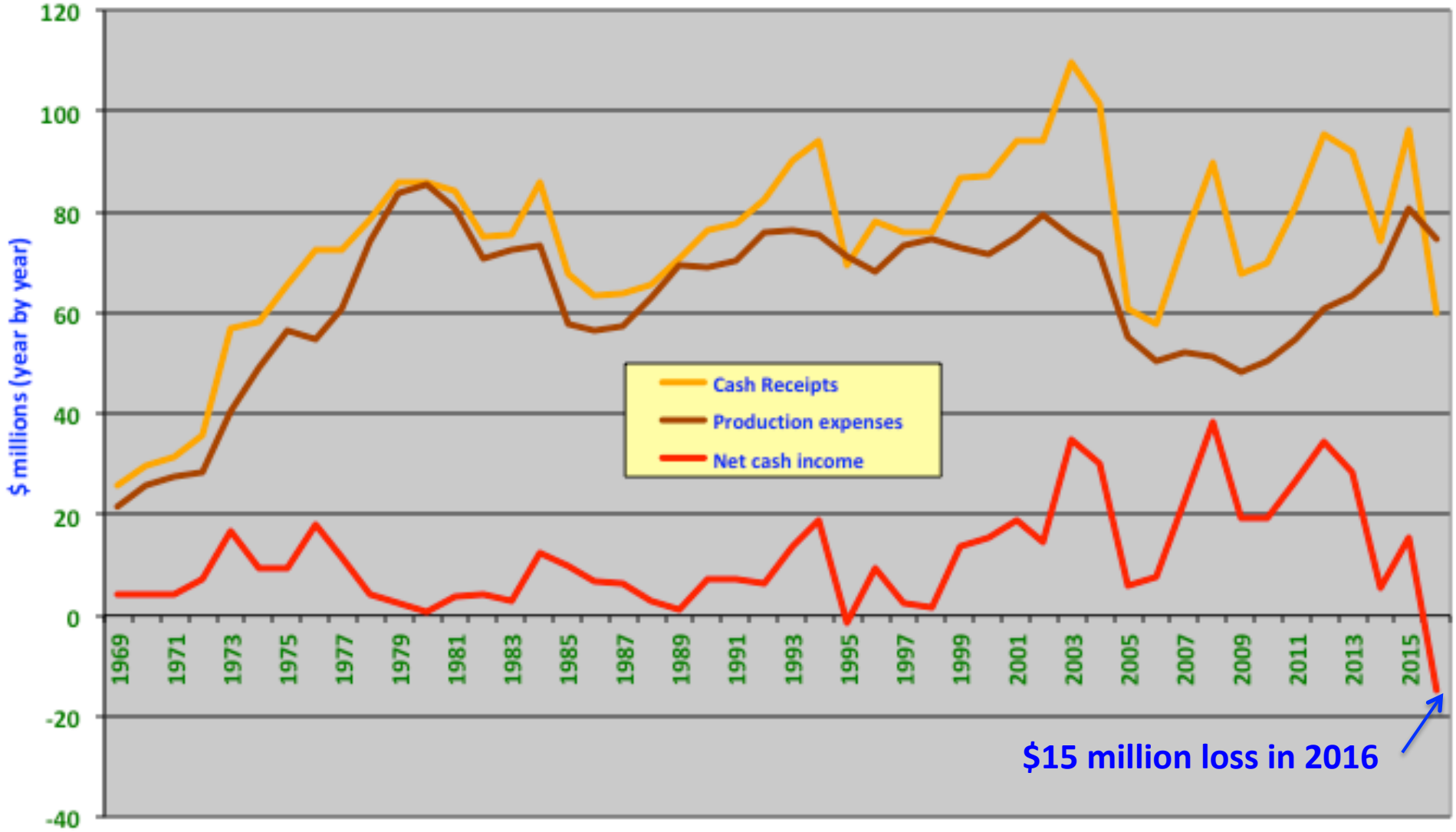
This suggests there is strong interest among Androscoggin County consumers in purchasing food direct from nearby farms.



Census of Agriculture, 1987 - 2012

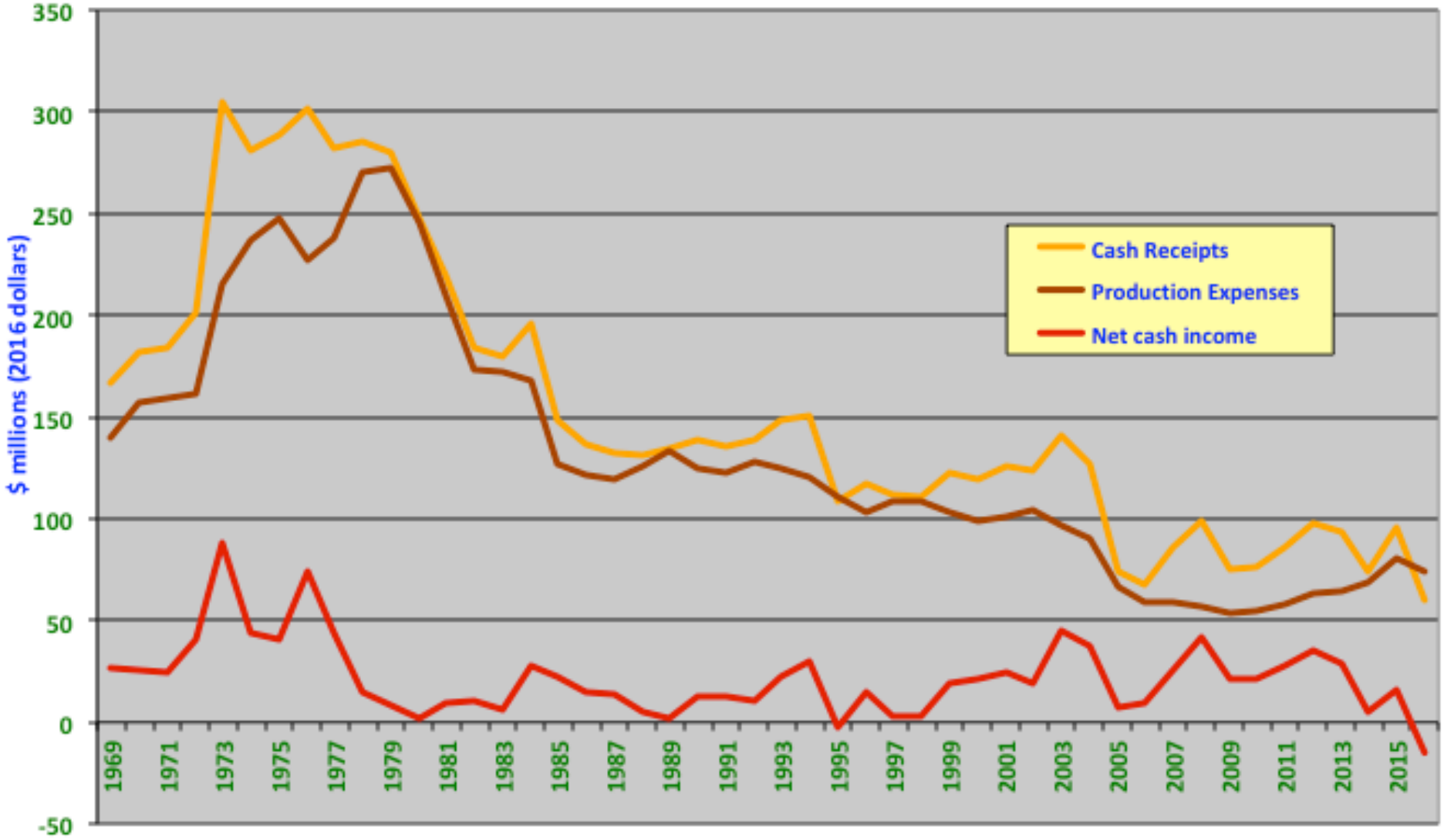

Sunizona Farms, Willcox, Arizona

Net Cash Income for Farmers in Androscoggin County, 1969-2016



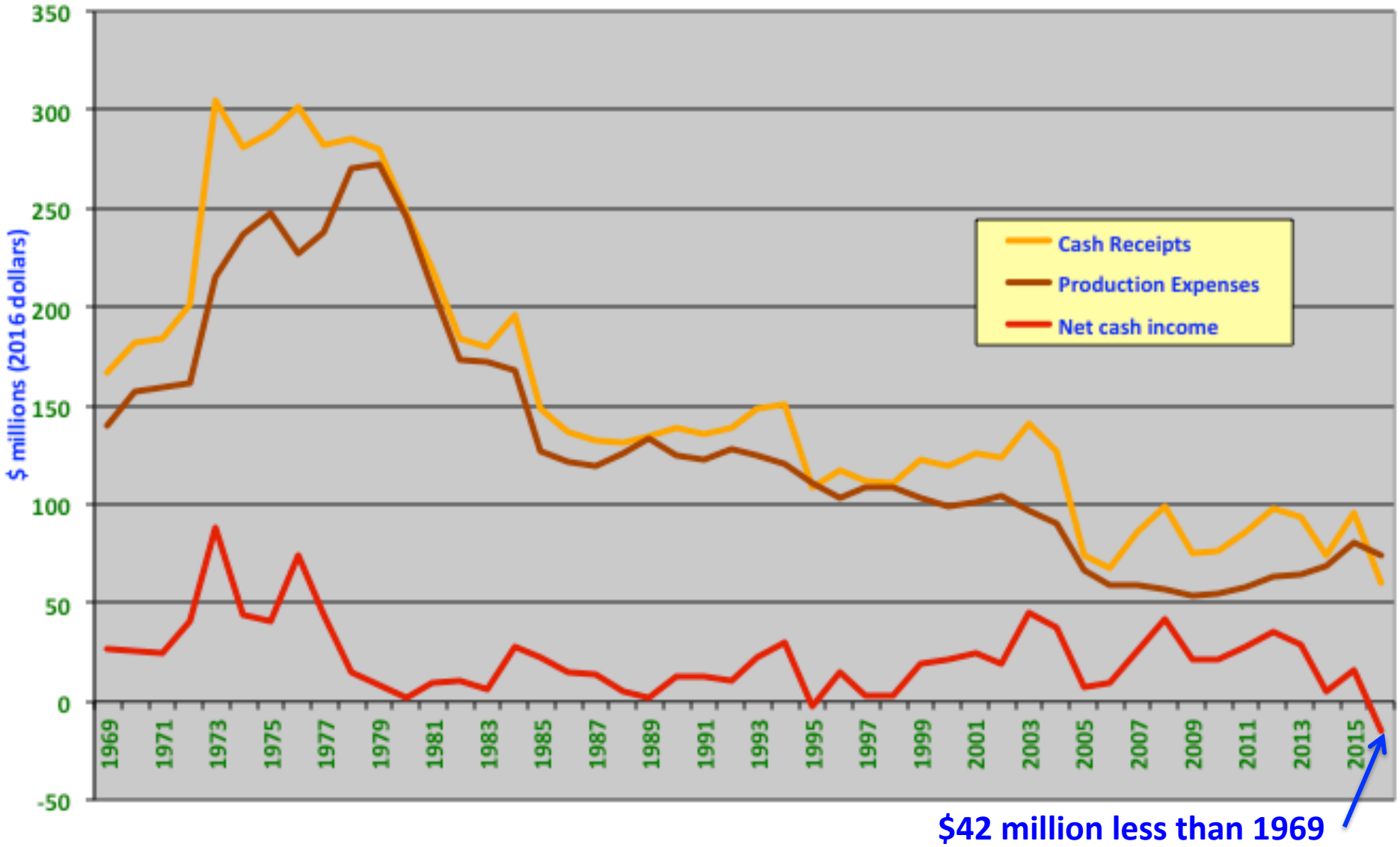
Bureau of Economic Analysis

Adjusted Net Cash Income for Farmers in Androscoggin County, 1969-2016

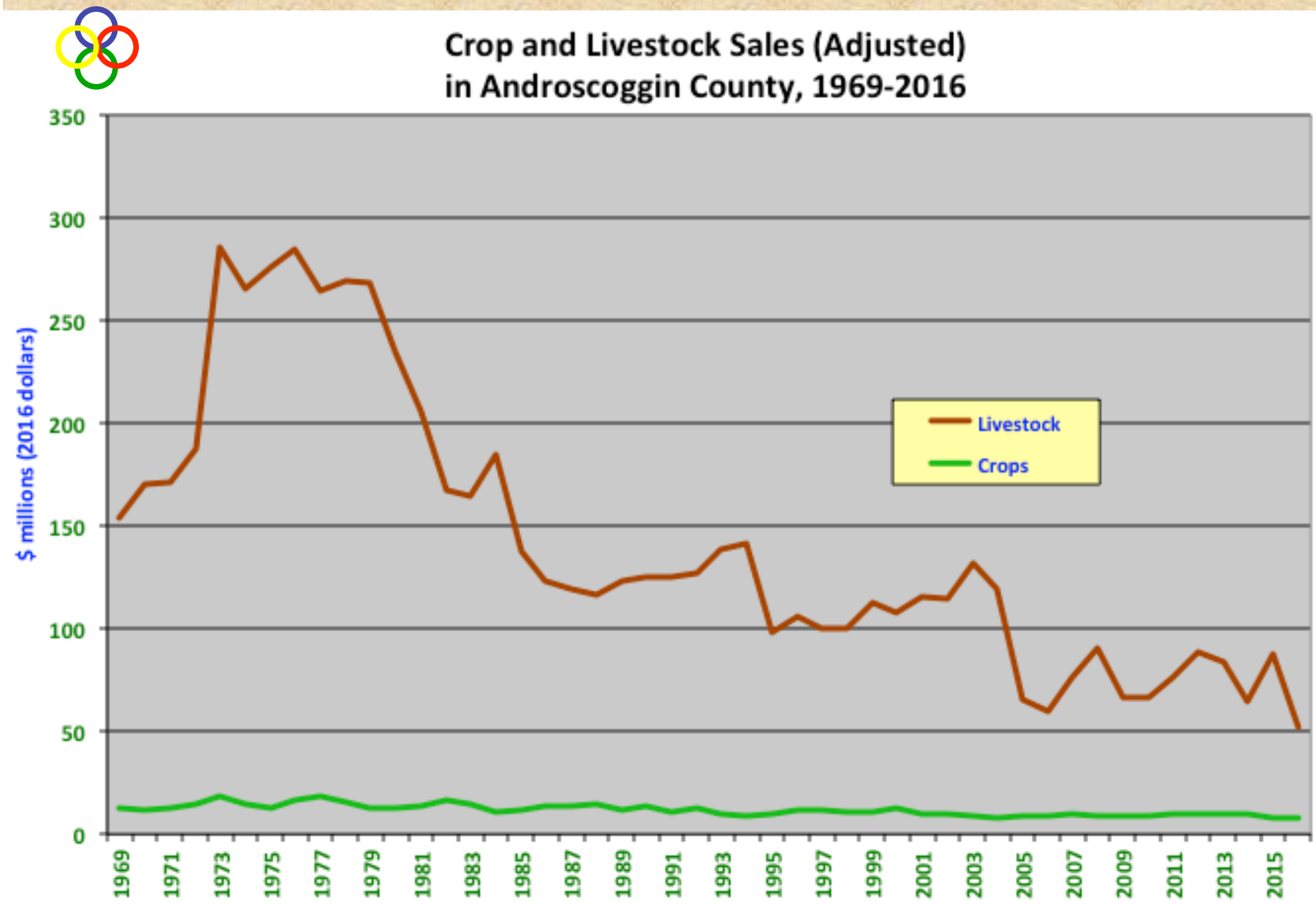


Bureau of Economic Analysis

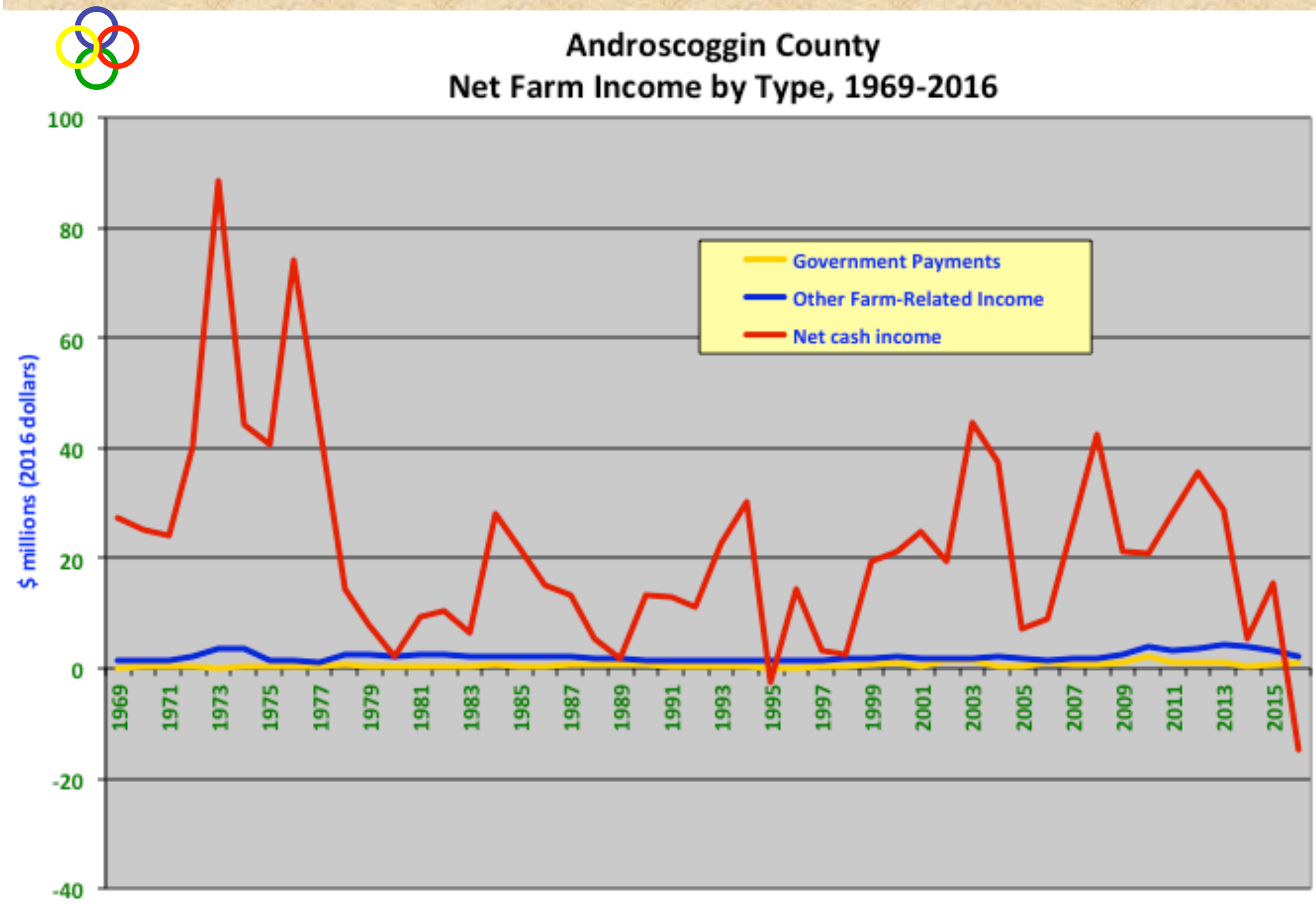
Adjusted Net Cash Income for Farmers in Androscoggin County, 1969-2016



Bureau of Economic Analysis



Bureau of Economic Analysis



Bureau of Economic Analysis


Plainview, Minnesota

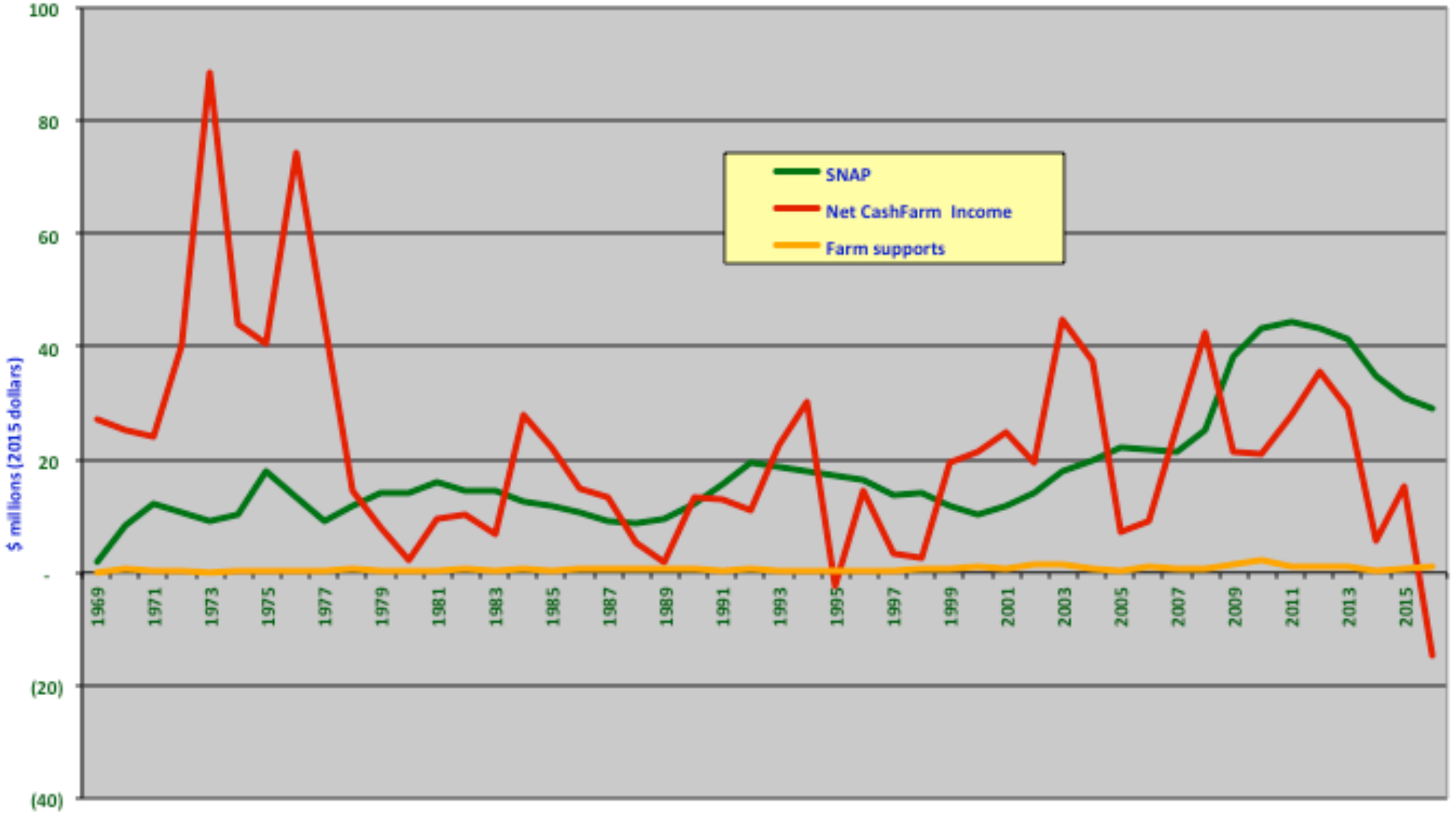
Androscoggin County residents buy $66 million of food each year

At least $63 million sourced outside county

Bureau of Labor Statistics with estimates by Ken Meter


Consumers matter
If each Androscoggin County resident bought $5 of food directly from some farm in the county each week…
…farms would earn $5.9 million

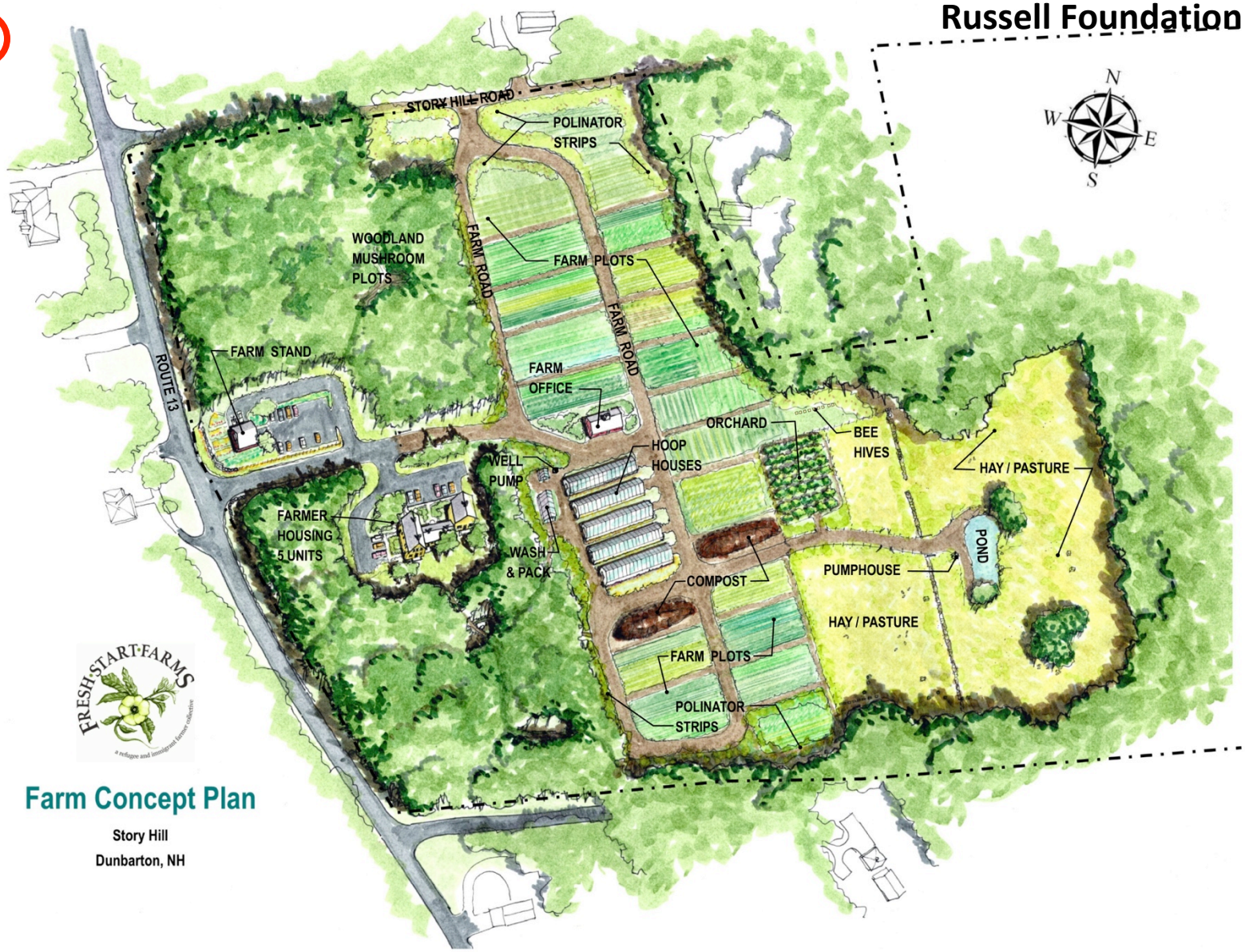
Adjusted SNAP Benefits Compared to Farm Subsidies and Net Cash Farm Income in Androscoggin County, 1969 - 2016



Bureau of Economic Analysis


Atlanta, Georgia

Courtesy of Ian McSweeney
Russell Foundation



Fresh Start Farms (Concept)-- Dunbarton, NH


GUNTHORP FARMS
0435 N 850 E - Lagrange, IN



Gunthorp Farms -- USDA Slaughter & Processing on Farm


Bethel, Alaska


Kansas City, Kansas


Kansas City, Kansas


Viroqua, Wisconsin


NO SEMIS
NOTICE
Viroqua, Wisconsin


Sue Noble, Vernon County Econ Devel Assn -- Western WI Food Enterprise Center


Western WI Food Enterprise Center


Western WI Food Enterprise Center


VIROQUA FOOD COOPERATIVE
market and deli
609
Viroqua, Wisconsin

Multi-Stakeholder Co-op

Growers (40)

CEO of Gunderson Memorial Hospital

CEO of Reinhart Foods

Workers

All represented on one board

Western Wisconsin Food Enterprise Center

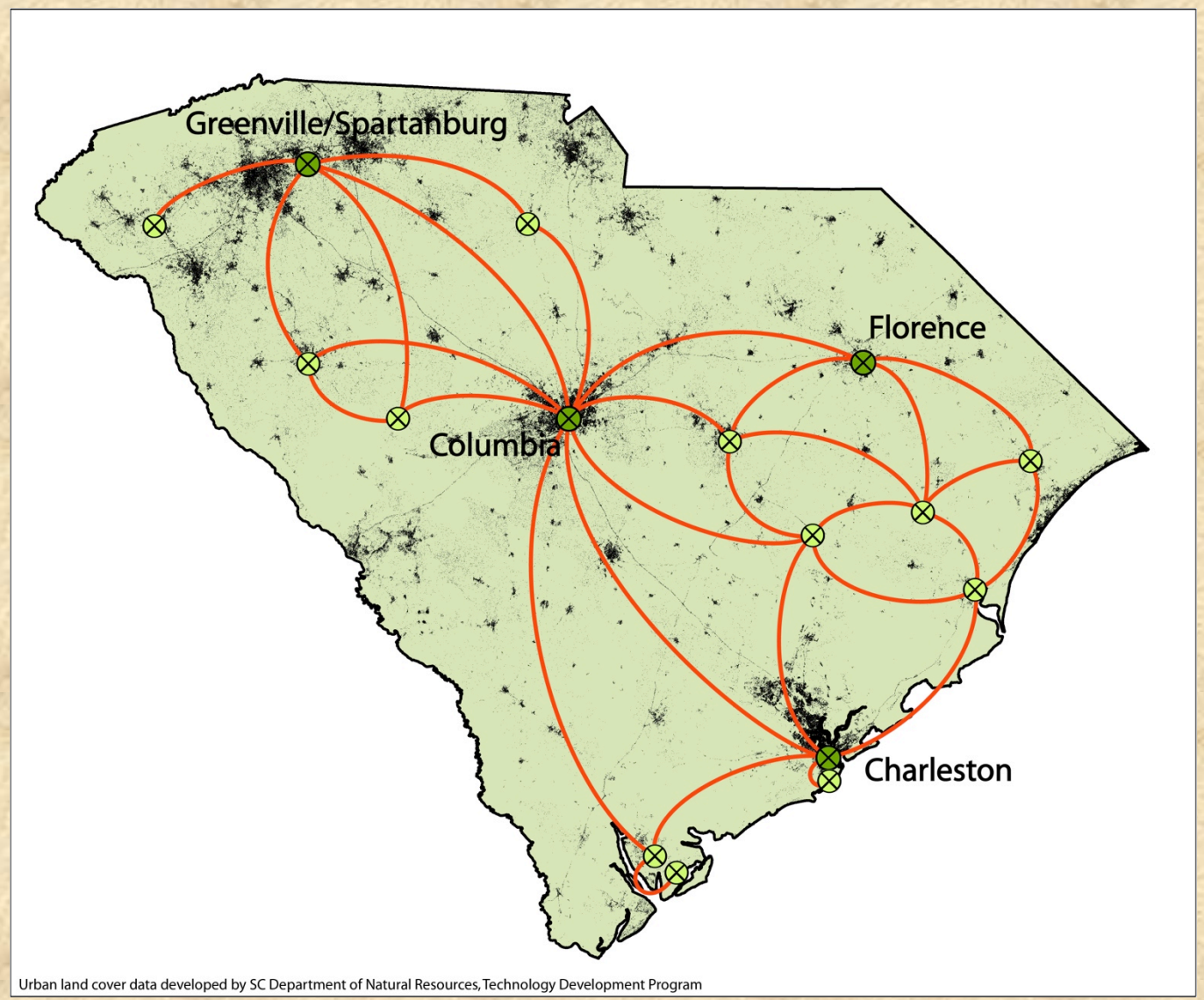
Replaced 85 jobs lost in 2009



Bob Quinn Farm, Big Sandy, Montana

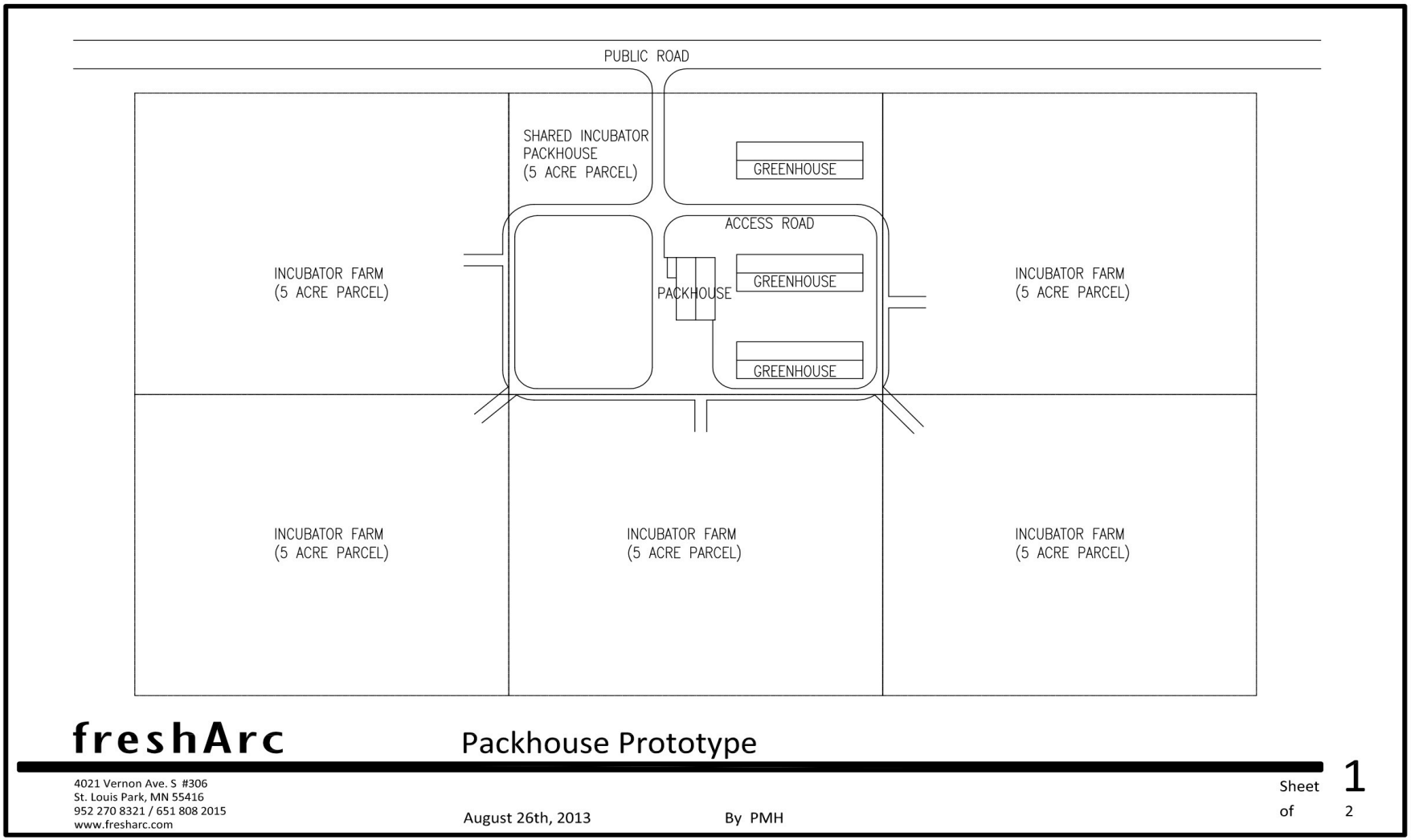

Dan & Marguerite Guenther, Common Harvest Farm, Osceola, Wisconsin

South Carolina "Food Web"

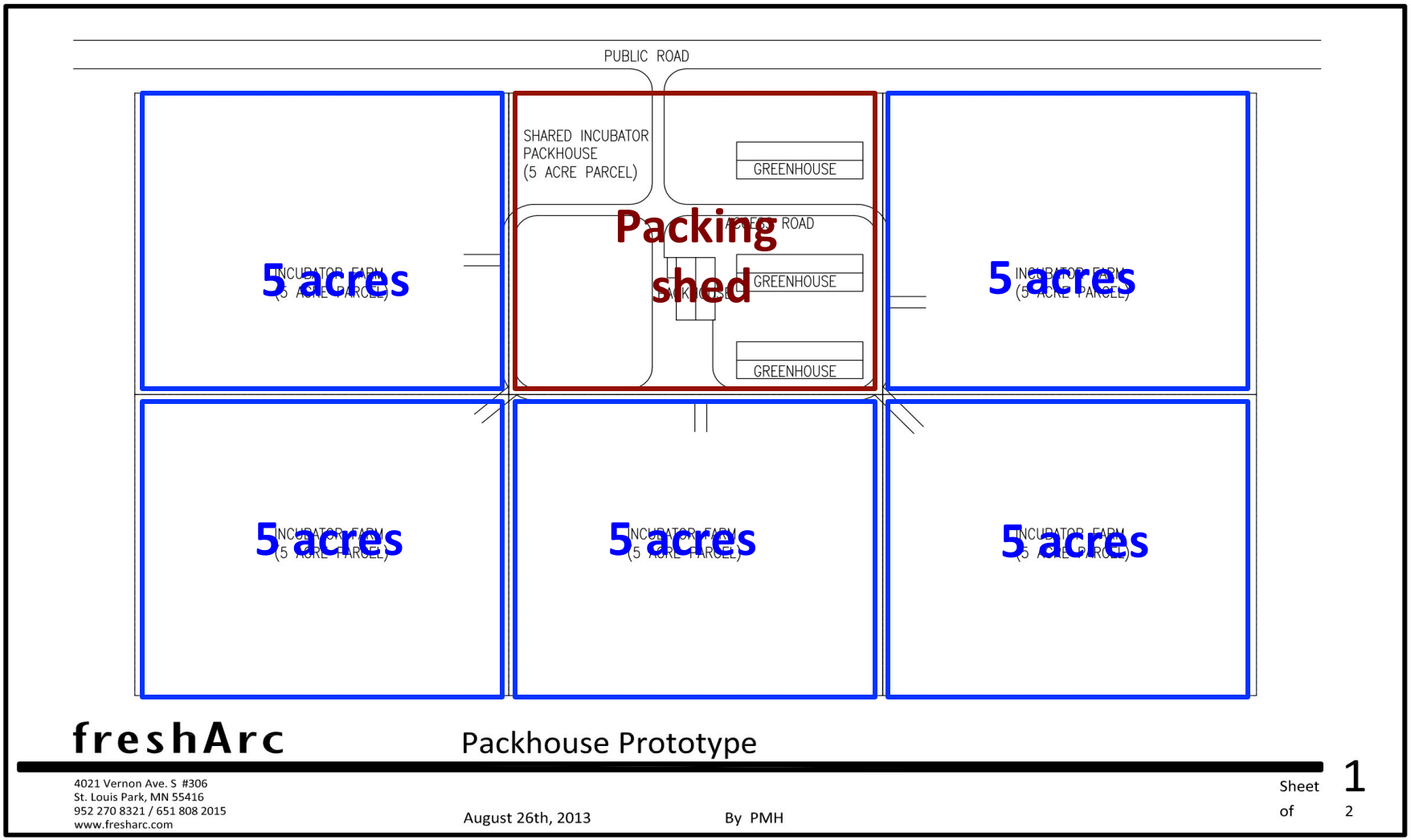


Meter & Goldenberg, Making Small Farms into Big Business (2003)

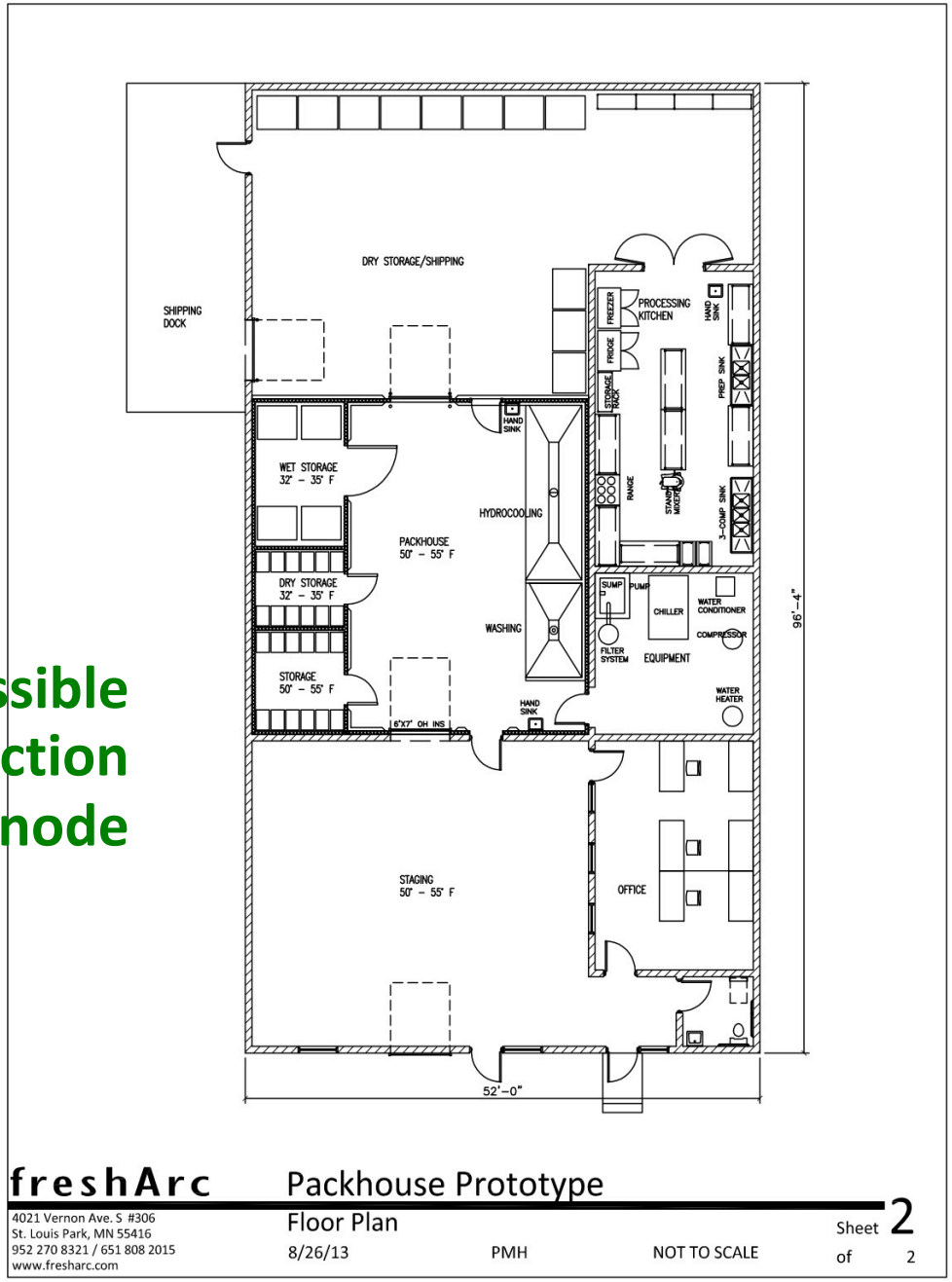
Incubator farm with packing shed



Incubator farm with packing shed



One possible food production node

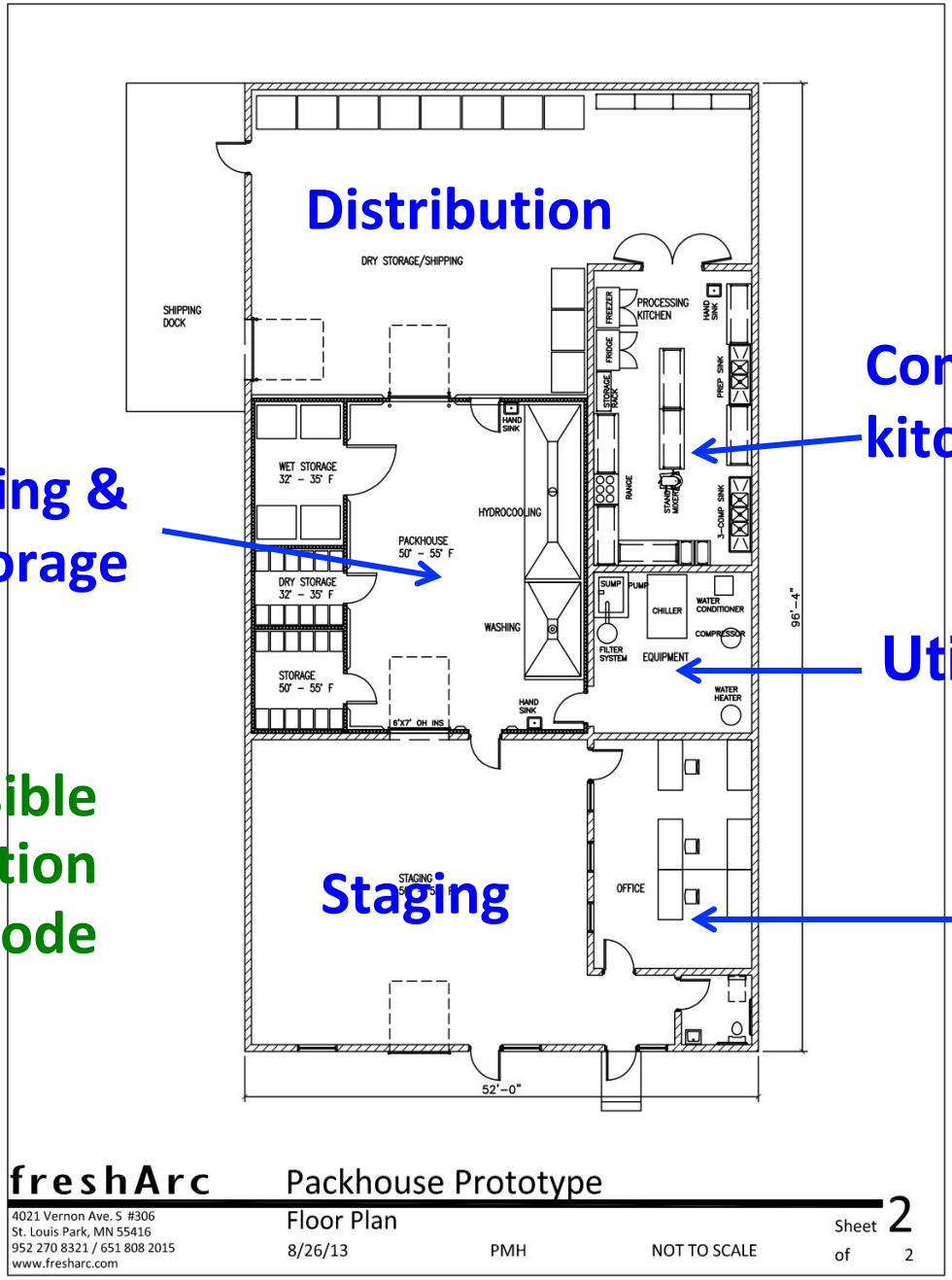


freshArc

4021 Vernon Ave. S #306
St. Louis Park, MN 55416
952 270 8321 / 651 808 2015
www.fresharc.com

Packhouse Prototype
Floor Plan
8/26/13 PMH NOT TO SCALE

Sheet 2 of 2


Distribution
DRY STORAGE/SHIPPING
SHIPPING DOCK
PROCESSING KITCHEN
FREEZER
FRIDGE
HAND SINK
PREP SINK
3-COMP SINK
RANGE
STAND MIXER
WET STORAGE 32° – 35° F
DRY STORAGE 32° – 35° F
STORAGE 50° – 55° F
PACKHOUSE 50° – 55° F
HYDROCOOLING
WASHING
SUMP
PUMP
CHILLER
WATER CONDITIONER
COMPRESSOR
FILTER SYSTEM
EQUIPMENT
WATER HEATER
6"X7" OH INS
STAGING
OFFICE
96'-4"
52'-0"
Commercial kitchen
Washing & Storage
Utilities
Staging
Offices
One possible food production node
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8/26/13
PMH
NOT TO SCALE
Sheet 2 of 2

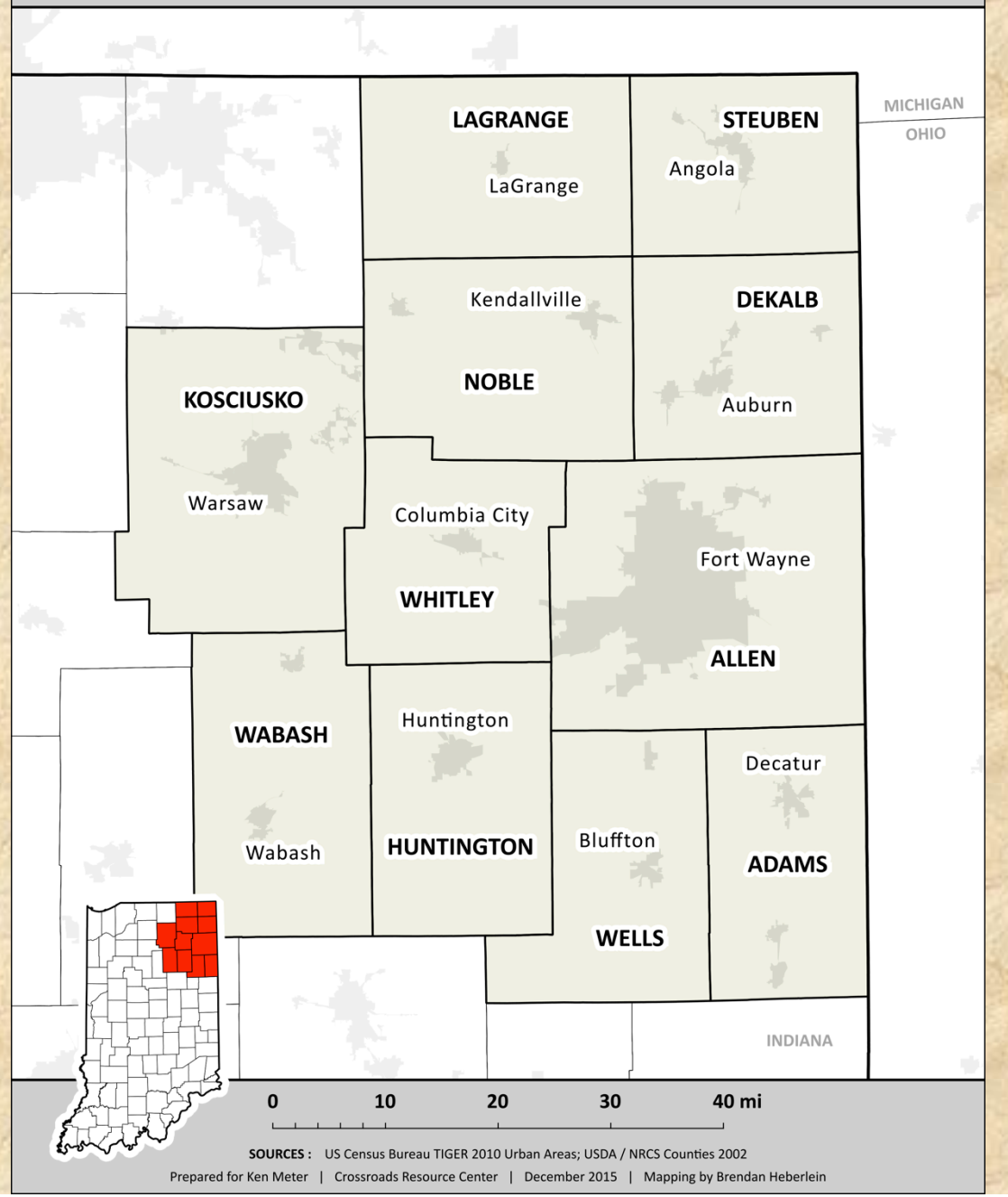
Adopt marketing campaign



Artwork by
Carrie Cline
Cortez, Colorado


Northeast Indiana Regional Partnership
11 Local Economic Development Organizations
Northeast Indiana Local Food Network
PARKING ONLY
GENERAC

Northeast Indiana Region



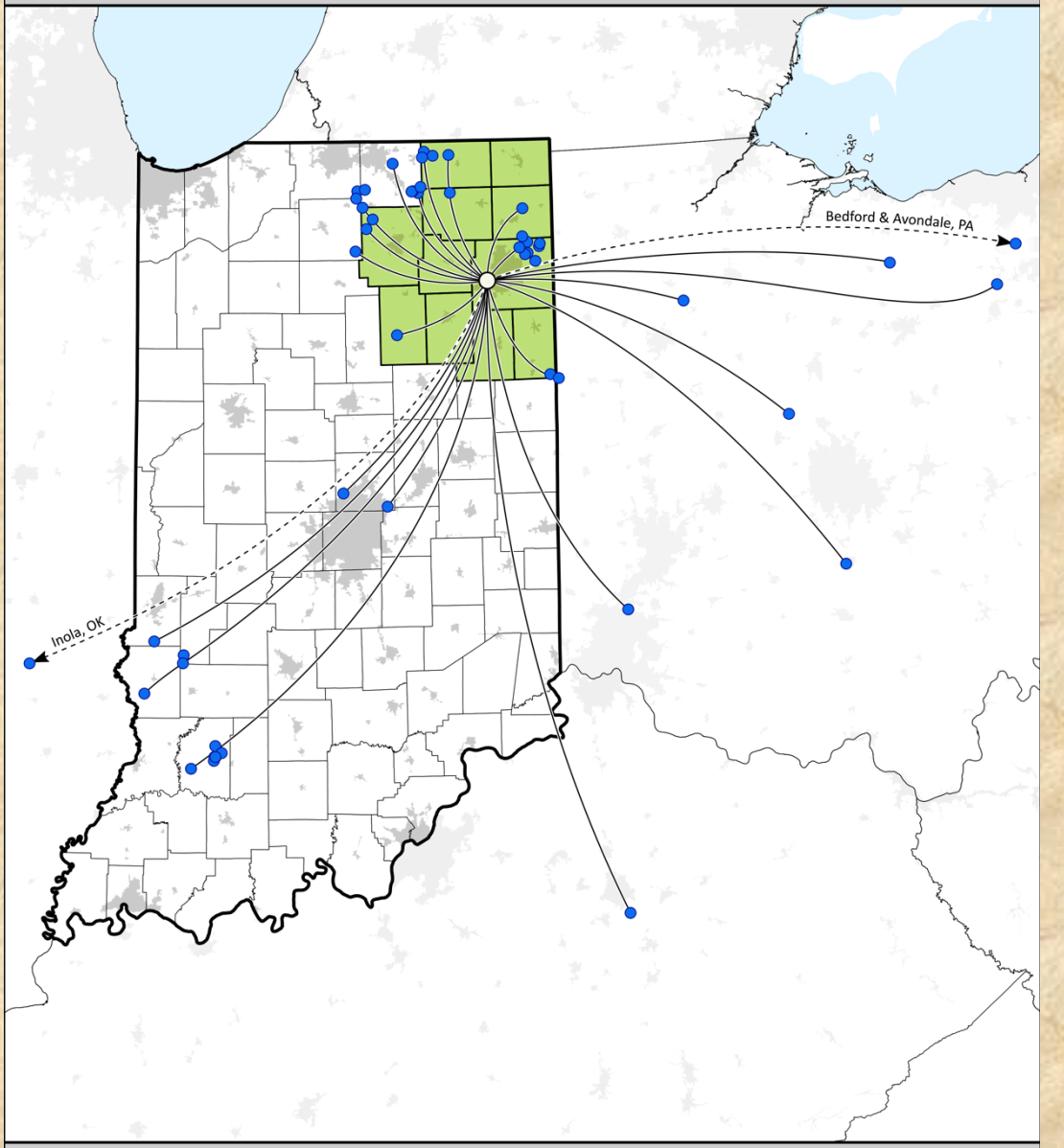
SOURCES : US Census Bureau TIGER 2010 Urban Areas; USDA / NRCS Counties 2002

Prepared for Ken Meter | Crossroads Resource Center | December 2015 | Mapping by Brendan Heberlein


Trellis Growing Systems – Fort Wayne

Trellis Growing Systems, LLC

Farmer Partners



SOURCES : US Census Bureau TIGER/Line 2010 Urban Areas; USDA/NRCS Counties 2002; GLIN Great Lakes Boundaries 2012

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NE Indiana Local Food Network

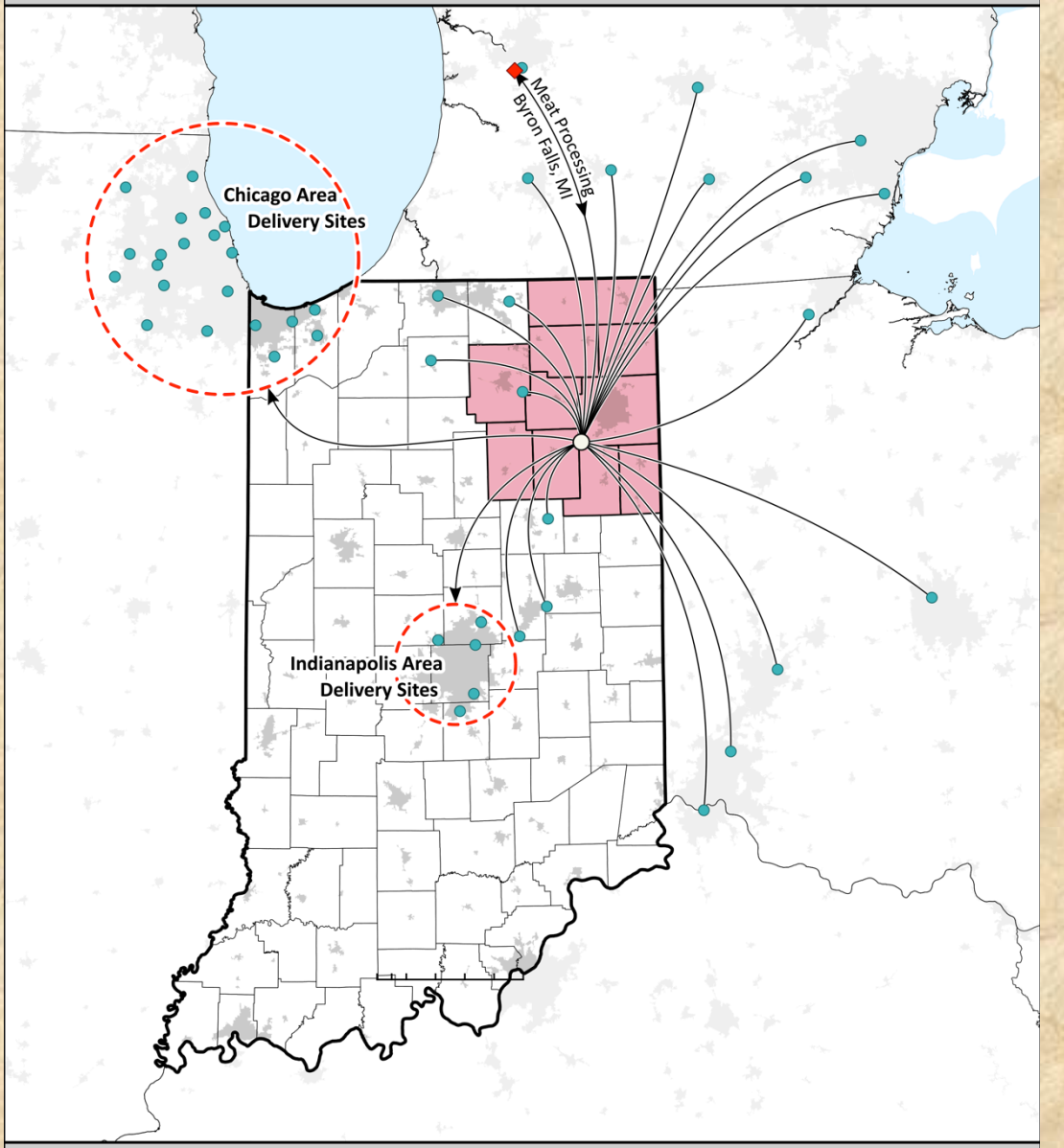
“Local food networks” are the commercial, social, and cultural connections that sustain food trade within Northeast Indiana.


Welcome to
Seven Sons


BROWNING
PROSTEEL SAFES
Blaine Hitzfield

Seven Sons Farm

Delivery Sites



SOURCES : US Census Bureau TIGER/Line 2010 Urban Areas; USDA/NRCS Counties 2002; GLIN Great Lakes Boundaries 2012

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45 Drop Sites

5,200 Names


Seven Sons Farm


Seven Sons Farm


OPEN
Seven Sons Farm


Seven Sons Farm
Boned Chicken
Ingredients: Chicken
Packed By
Manley's Custom Butchering & Canning
302 S 400 E, Decatur, IN 46733
Net Wt. 27 Ounces. (1Lb., 11 Oz.)
Ground
Net Wt. 26 oz. (1LB.,
Seven Sons
Ground Beef
Net Wt. 26 oz. (1LB., 10 oz.)
Seven Sons
Chunk Pork
(Boneless)
Net Wt. 27 oz. (1LB., 11 oz.)


APPLEWOOD
SMOKED BACON
PORK BELLY, INDIANA MAPLE SYRUP, BROWN SUGAR
NET WT.
12 OZ.
SMOKING
GOOSE
APPLEWOOD
SMOKED BACON
PORK BELLY, INDIANA MAPLE SYRUP, BROWN SUGAR
NET WT.
12 OZ.
SG
Seven Sons Farm





Vision for local food economies

Build:

- **Health**
- **Wealth**
- **Connection**
- **Capacity**


"Local" is a shorthand....
Photo: DSC


Goal: to build
Community-Based
Food Systems
Photo: DSC

Community-Based Food Systems



Systems of exchange that strive to bring food producers and food consumers into affinity with each other…

…For the purposes of fostering community health, wealth, connection, and capacity

Meter (2007). Evaluating Farm and Food Systems in the U.S.



Food Conspiracy Co-op, Tucson

Food System



Meter & Goldenberg, 2016


Local Farm & Food Economy Studies
Ken Meter & Megan Phillips Goldenberg
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