



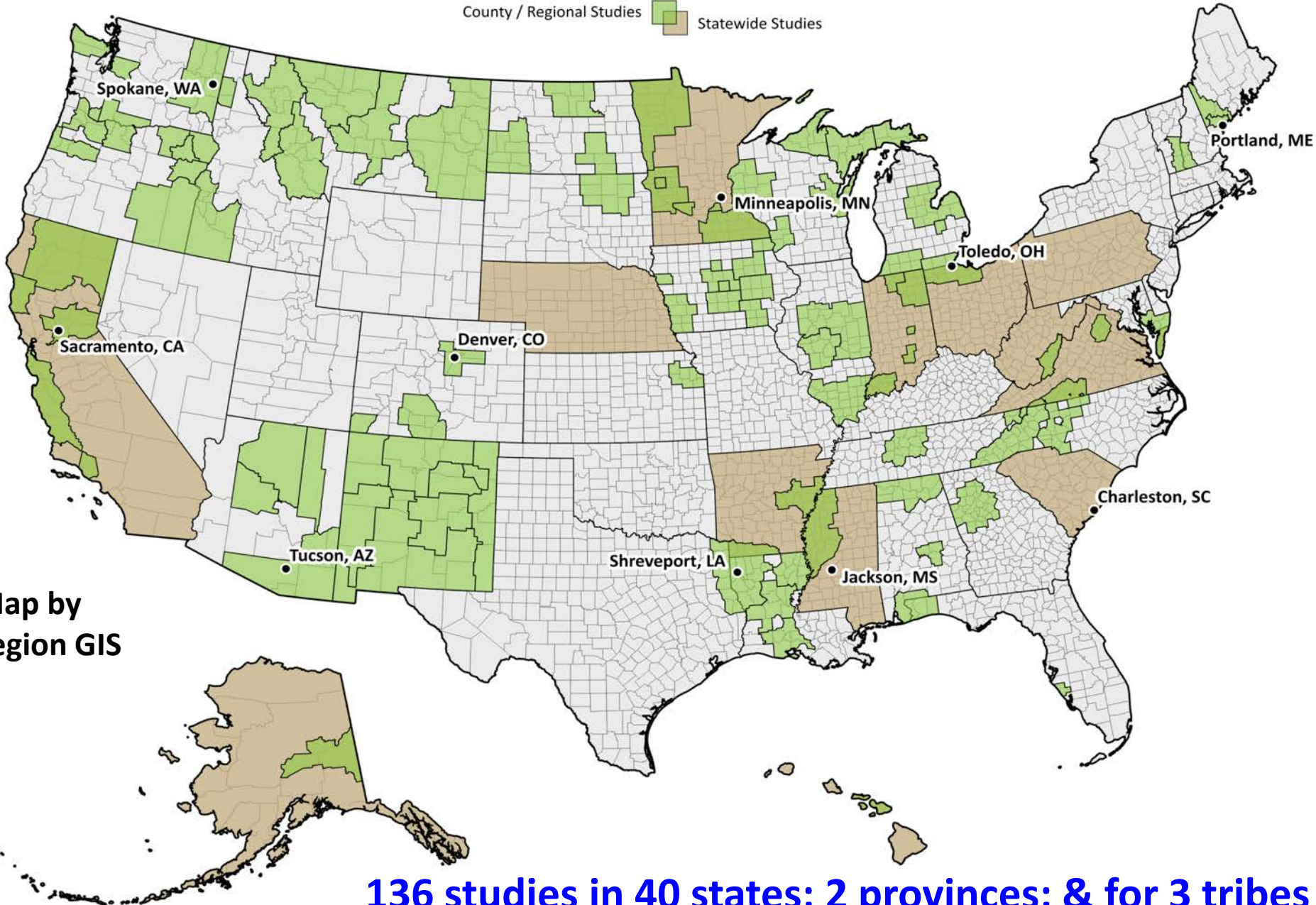
“Local” Food Systems

Ken Meter
Crossroads
Resource Center
(Minneapolis)

**Chronic Disease Coordinating Council
Arkansas Public Health Association
Little Rock, May 11, 2018**

CRC Farm & Food Economy Studies

County / Regional Studies  Statewide Studies 





Objectives of this Presentation

1. Discuss Why I Promote “Local” Food

2. Offer an Overview of Arkansas

3. Show Findings from Prior Studies

4. Discuss the Importance of Building Networks



Who's your far

Corinna, Kurt, & Jed Bench

Elmore, Ohio







Vision for local food economies

Build:

Health

Wealth

Connection

Capacity



**The current food system takes wealth out
of our communities**



**“Local” foods may be the best path
toward health in U.S.**

“Local” is a shorthand...



Photo: DSC



**Goal: to build
Community-Based
Food Systems**



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





**What differentiates “local” food
is that it
builds community connections**



ORGANIC
origin: CA
ARKANSAS
BLACK
HEIRLOOM
APPLES
\$2.99/lb

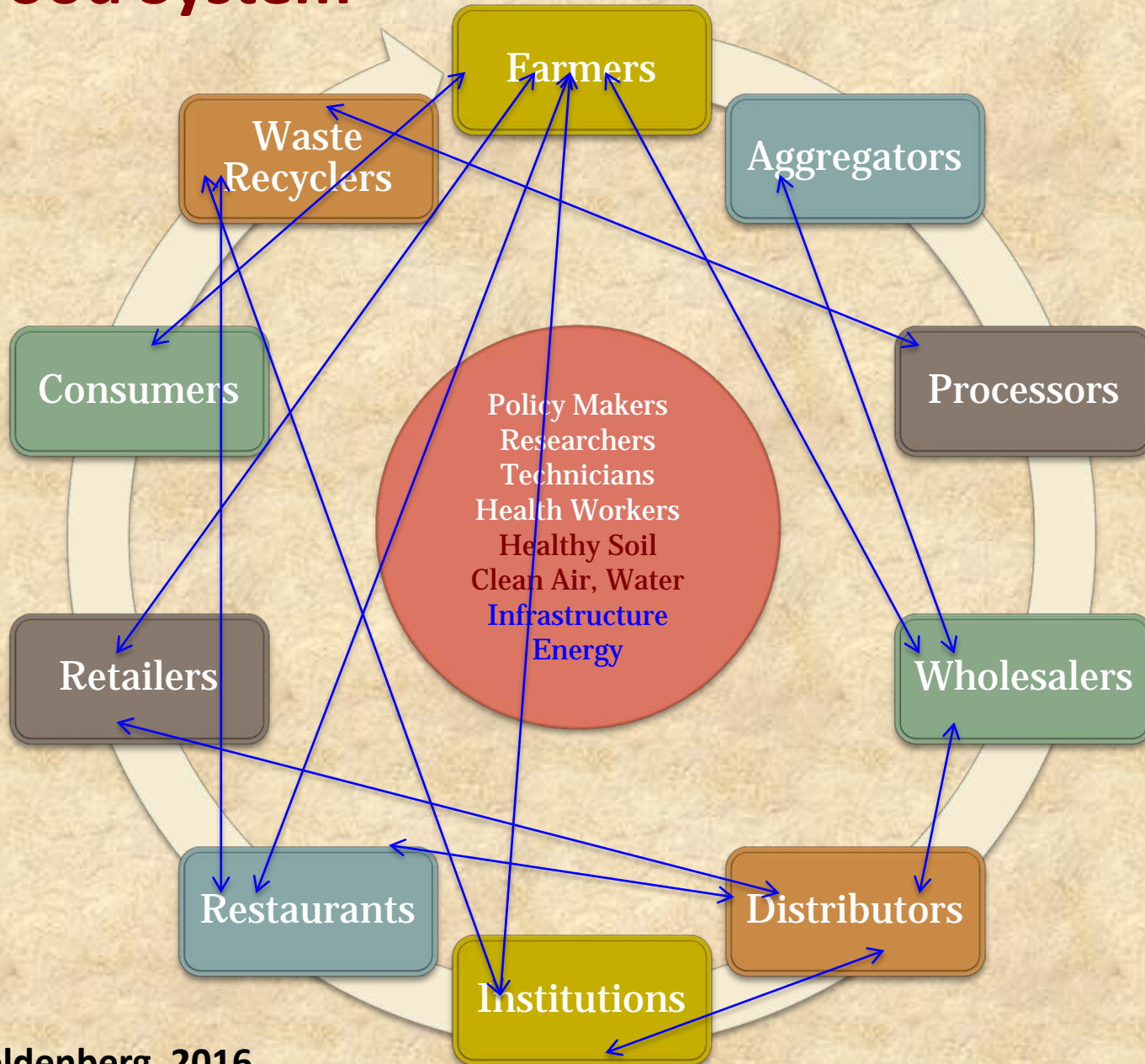


Food System





Food System





Food Systems are Networks



BULK
DIAKON
RADISH \$2.99

GREEN
BEANS \$3.99

SUGAR
SNAP
PEAS \$9.99

BULK
RED
BEETS \$2.79

RUTABAGA \$2.69

ORGANIC
LEMON
GRASS \$3.99 each

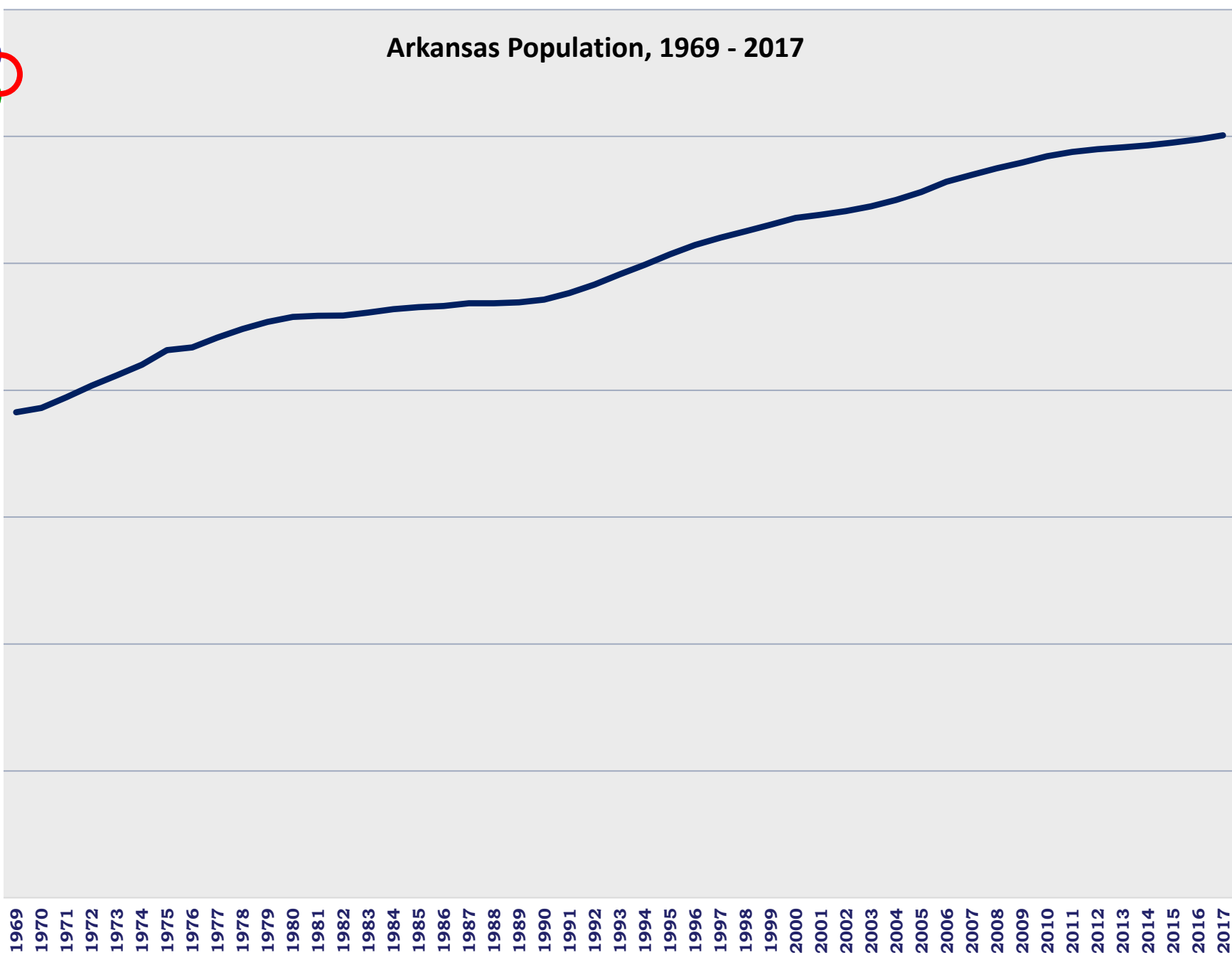
ORGANIC
RED
CABBAGE \$1.39 per lb

ORGANIC
YOUR
GINGER

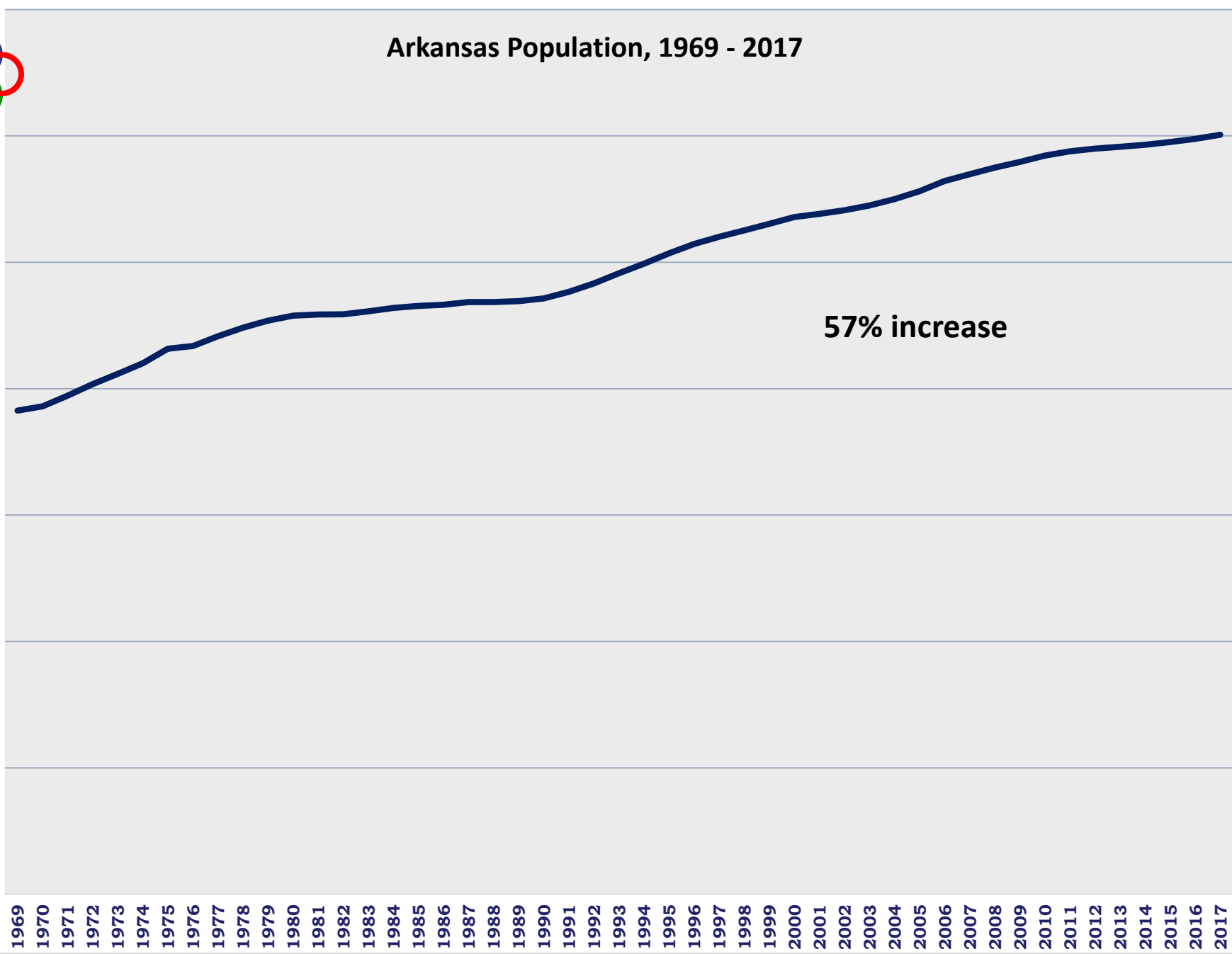
ORGANIC
GREEN
CABBAGE

Ozark Natural Foods Co-op, Fayetteville

Arkansas Population, 1969 - 2017

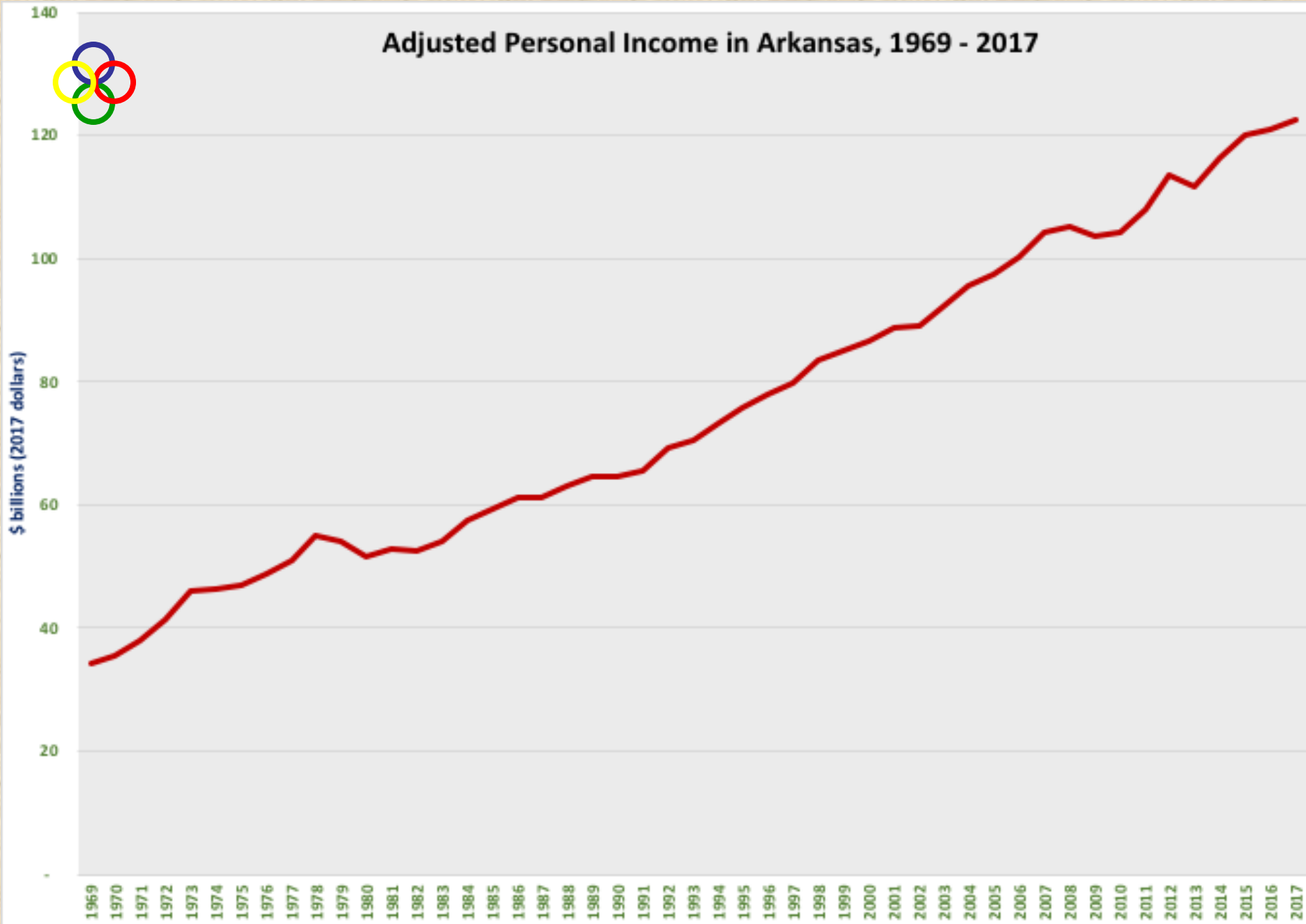


Arkansas Population, 1969 - 2017

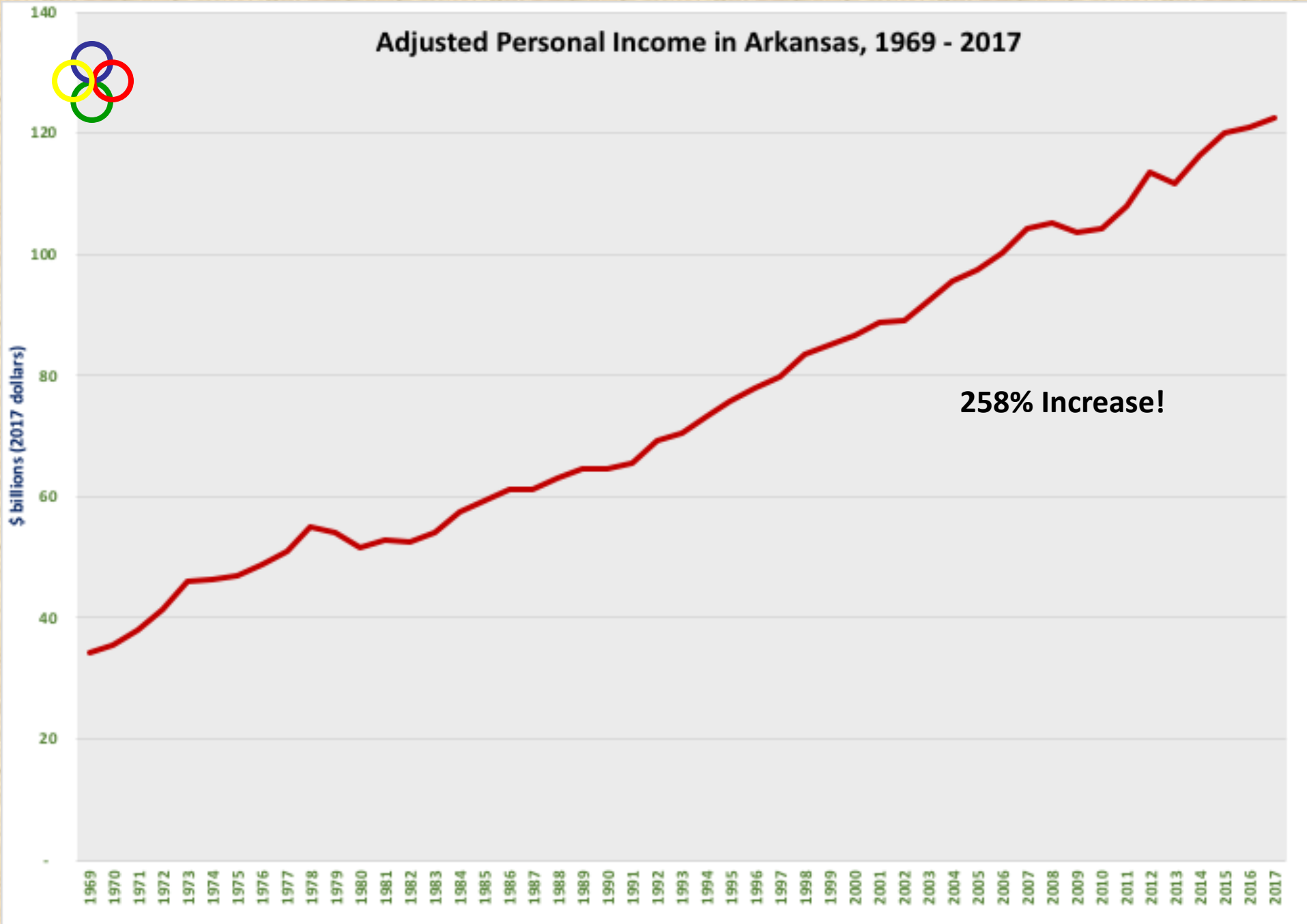


57% increase

Adjusted Personal Income in Arkansas, 1969 - 2017

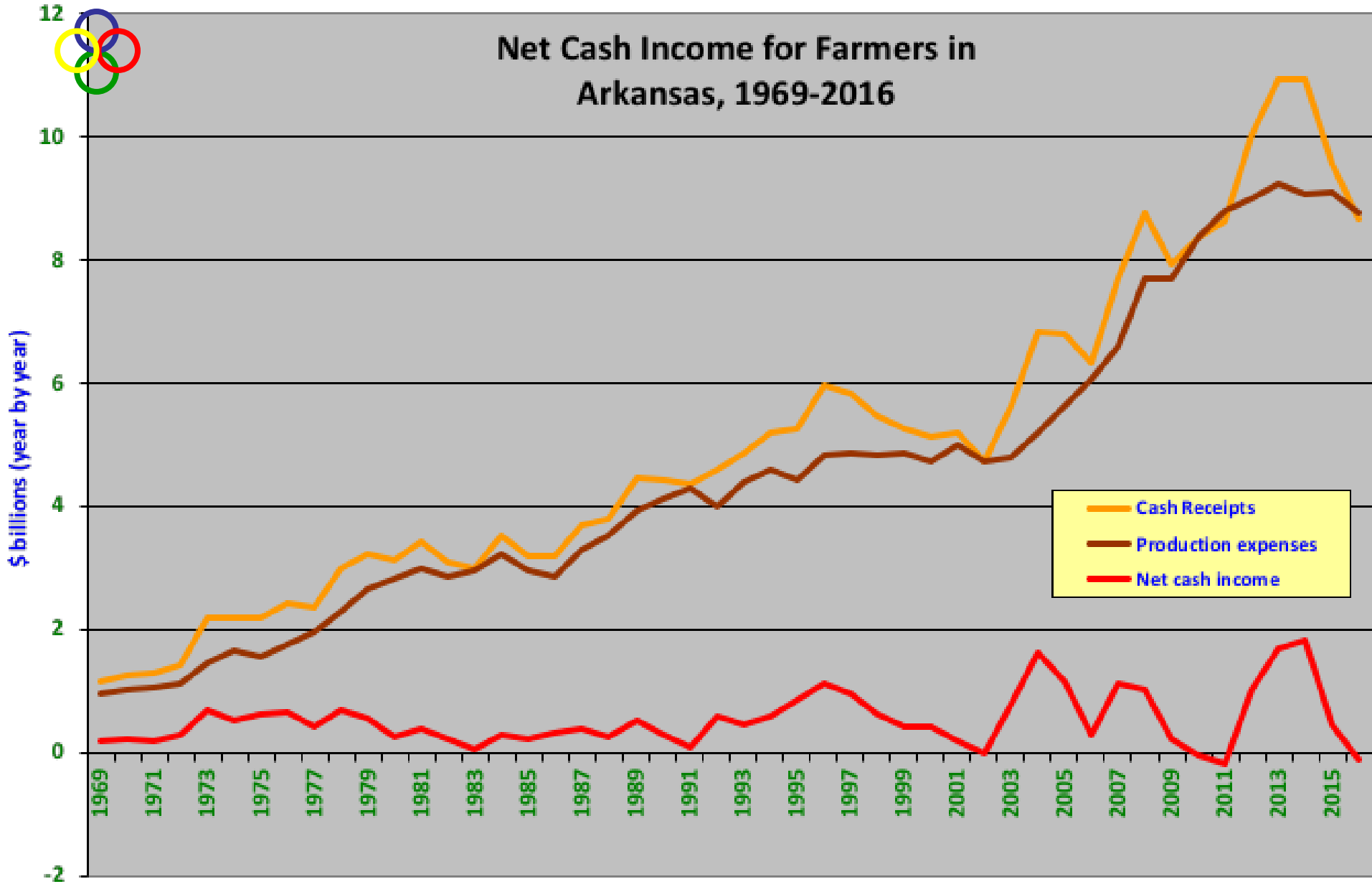


Adjusted Personal Income in Arkansas, 1969 - 2017



258% Increase!

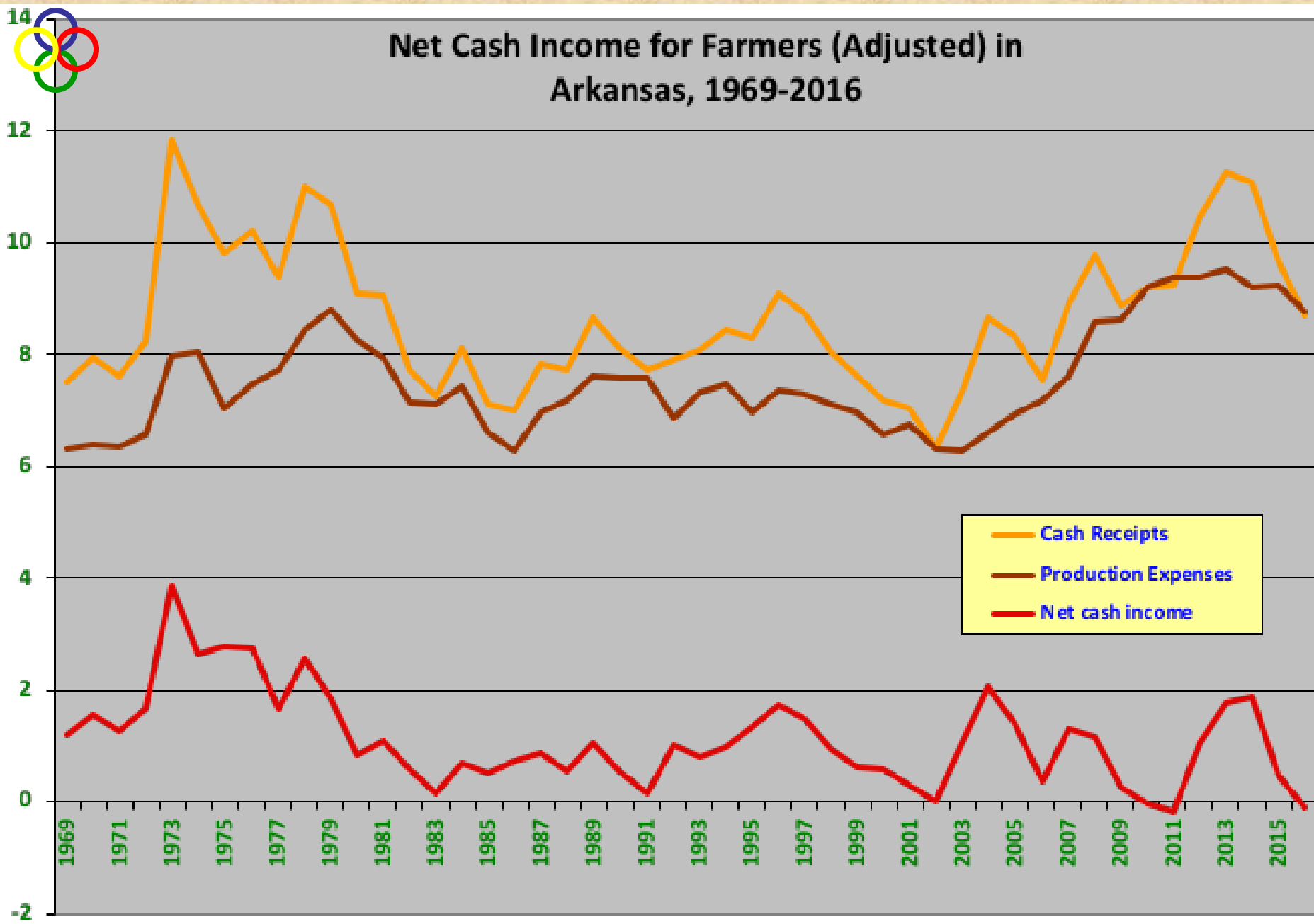
Net Cash Income for Farmers in Arkansas, 1969-2016



Net Cash Income for Farmers (Adjusted) in Arkansas, 1969-2016

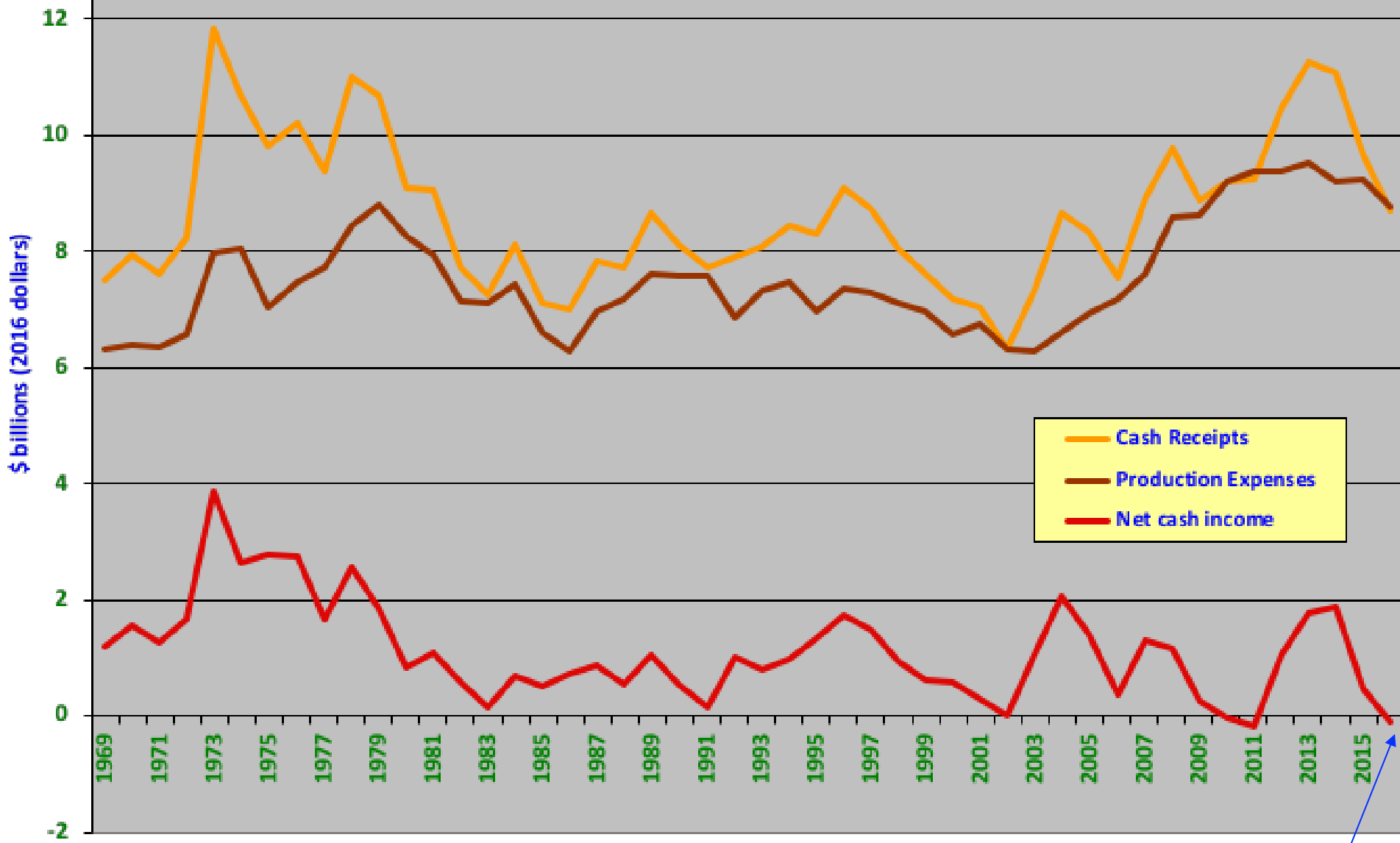


\$ billions (2016 dollars)



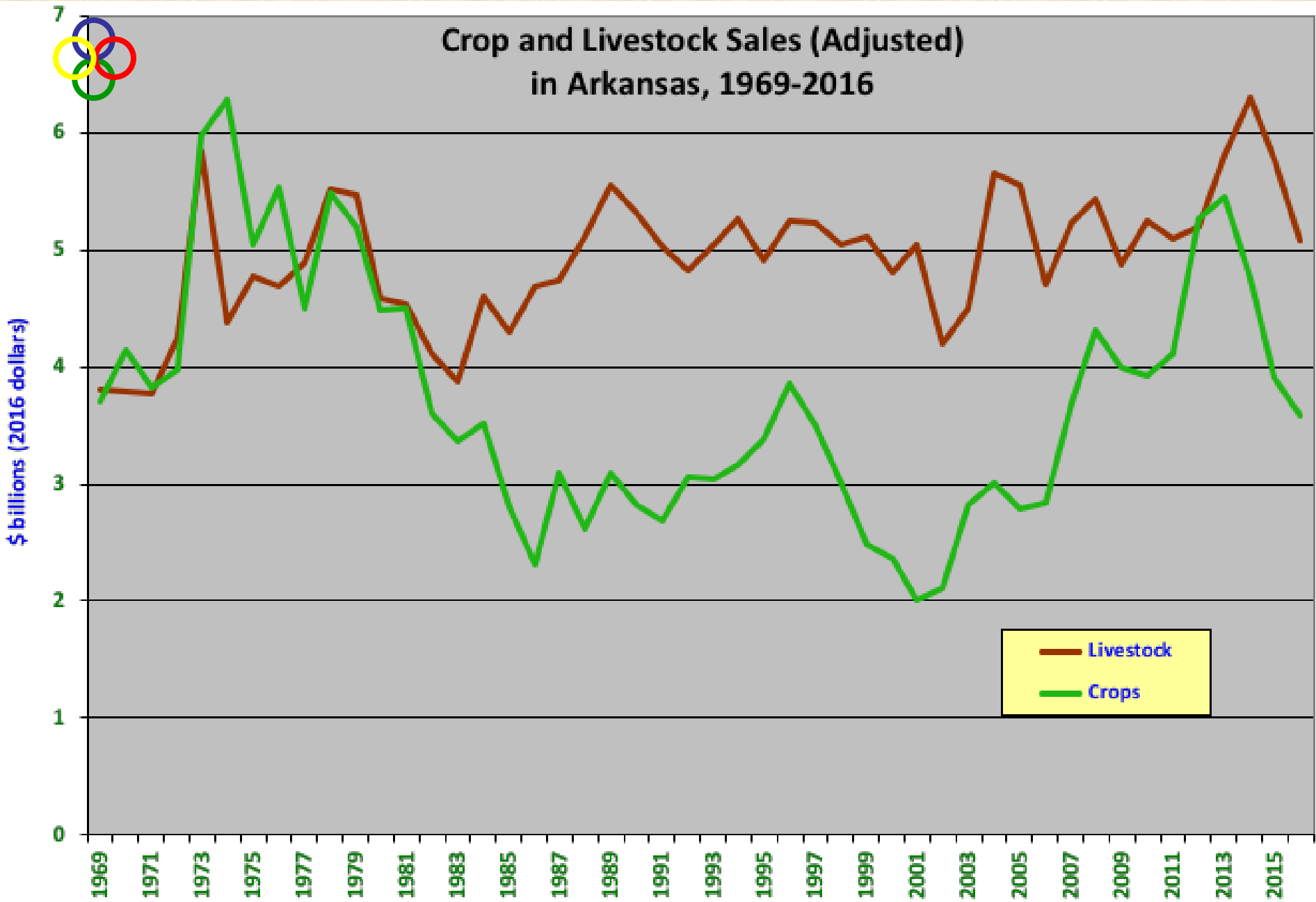
Cash Receipts
Production Expenses
Net cash income

Net Cash Income for Farmers (Adjusted) in Arkansas, 1969-2016



Cash Receipts
Production Expenses
Net cash income

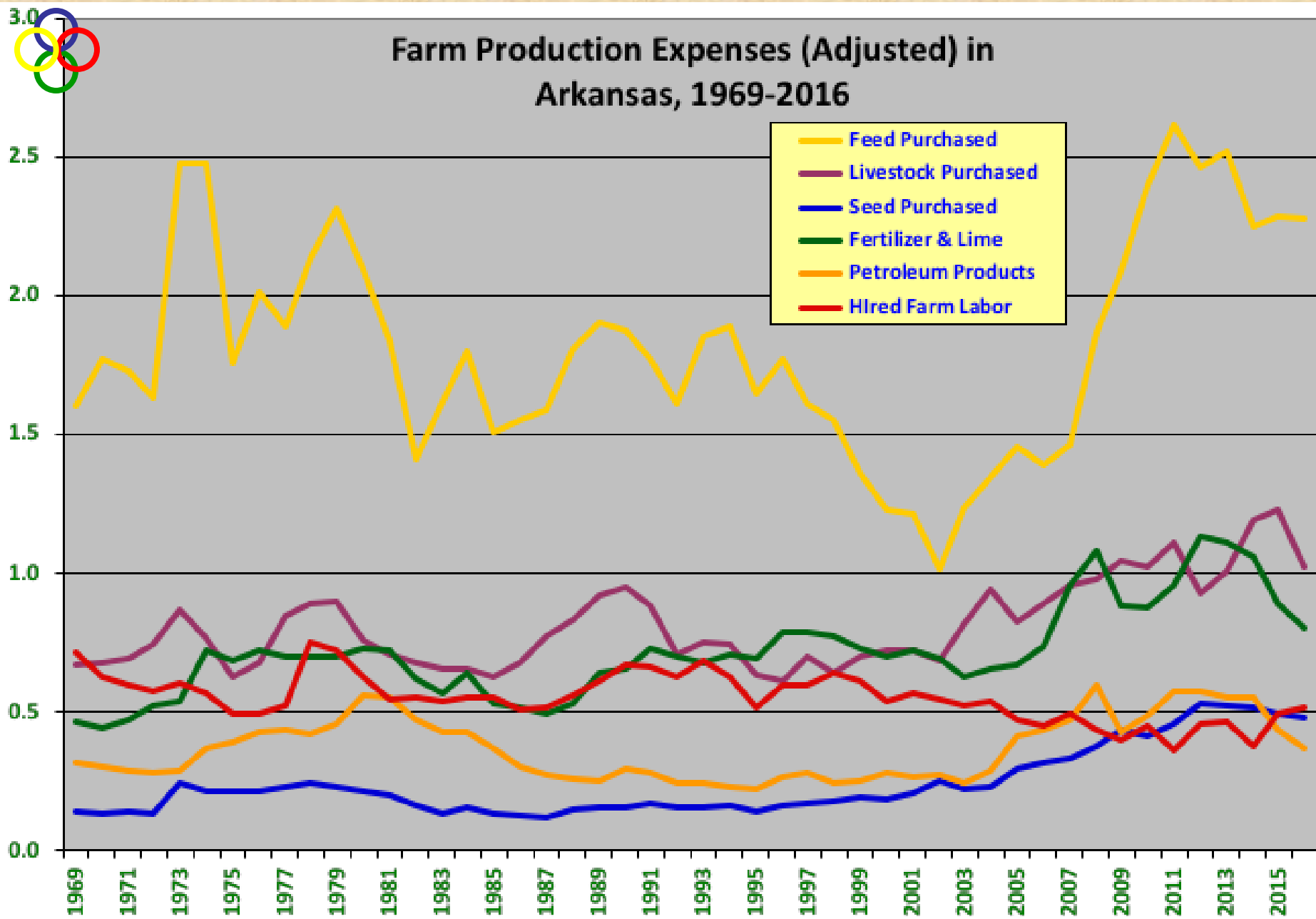
Crop and Livestock Sales (Adjusted) in Arkansas, 1969-2016



Livestock
Crops

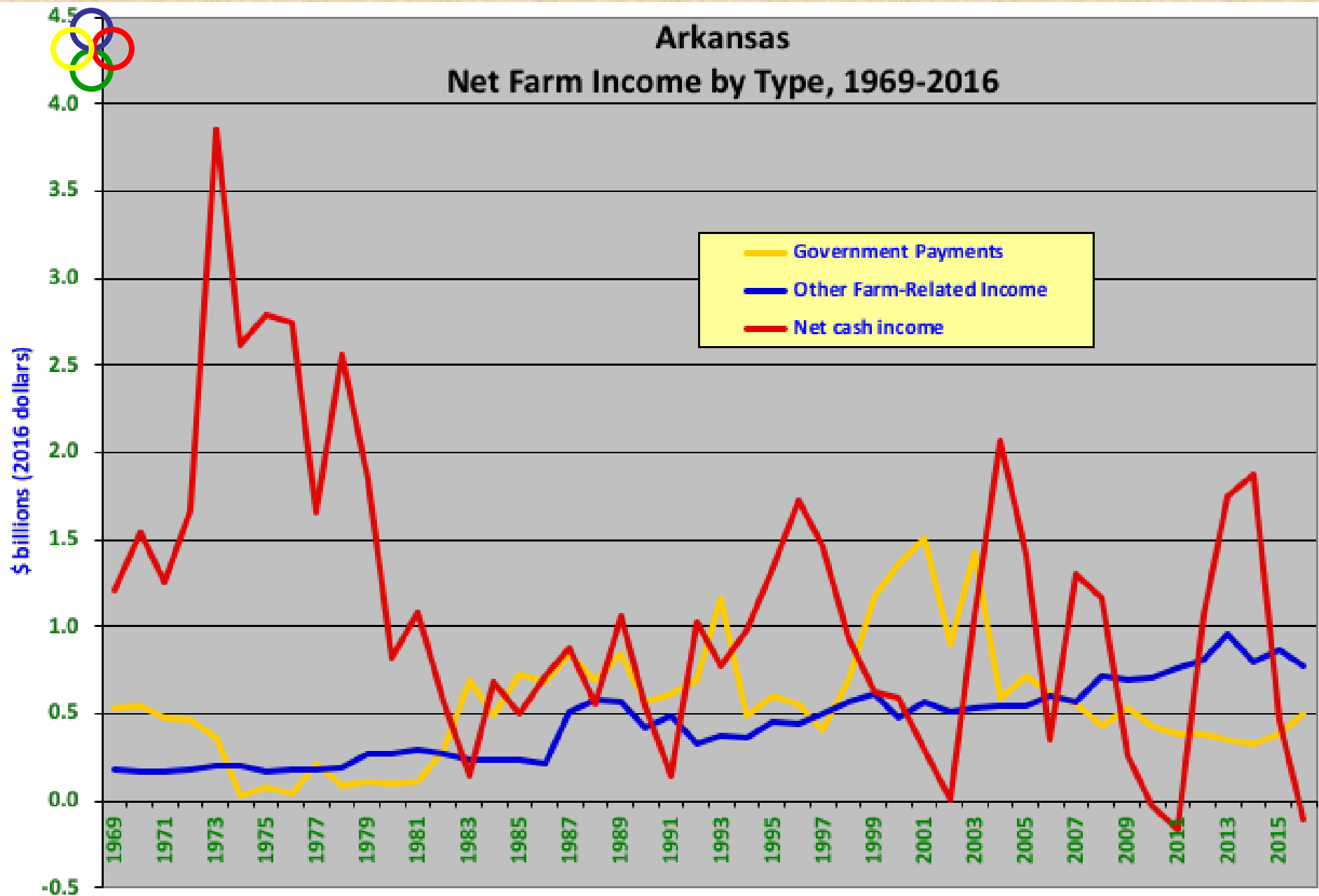
Farm Production Expenses (Adjusted) in Arkansas, 1969-2016

\$ billions (2016 dollars)

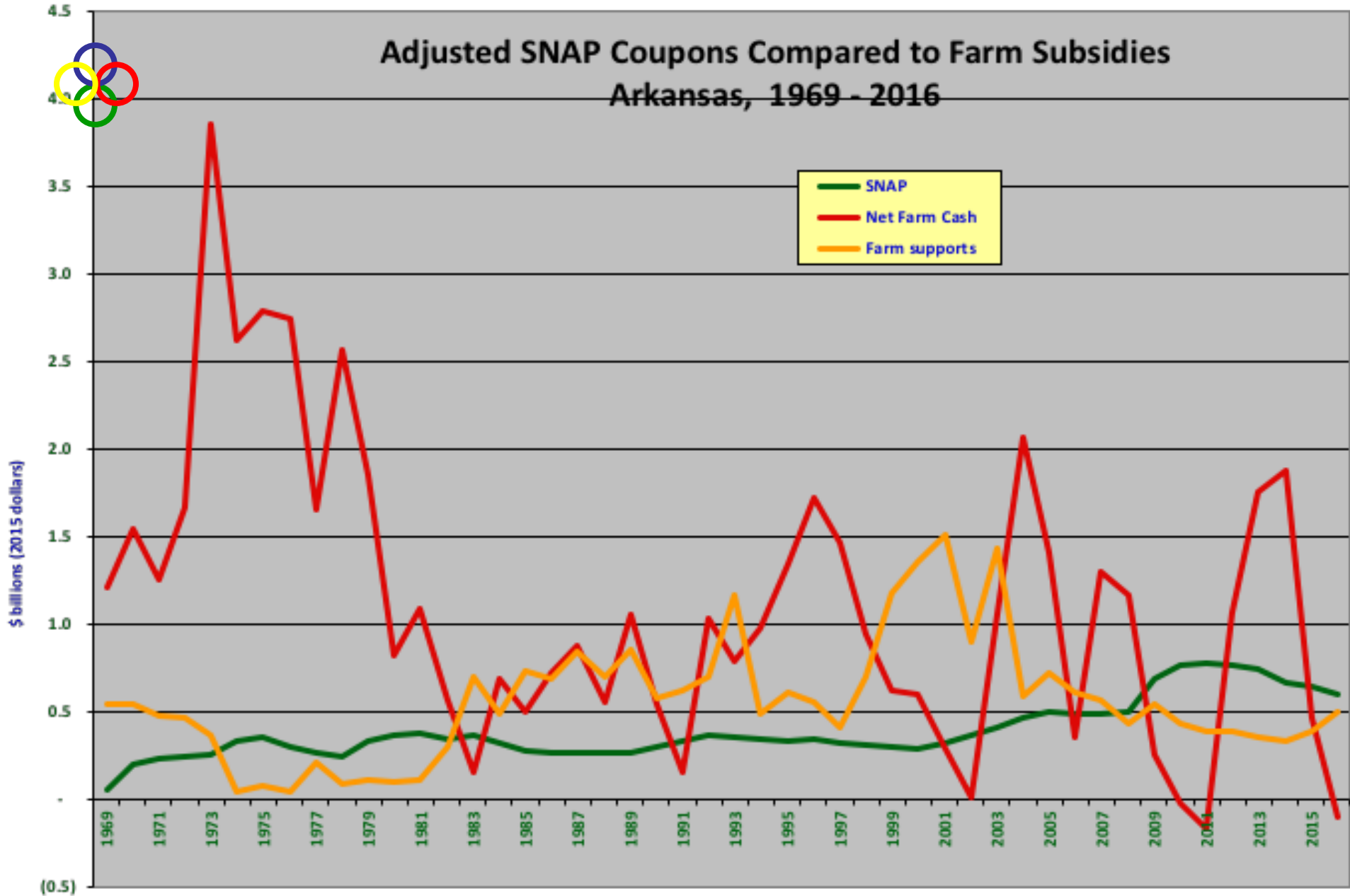


Arkansas

Net Farm Income by Type, 1969-2016



Adjusted SNAP Coupons Compared to Farm Subsidies Arkansas, 1969 - 2016





Current Food System Creates Big Losses

\$7 billion of food sourced outside the state

\$2.4 billion for medical costs of diabetes

\$9.4 billion annual loss

These are only part of the losses



Fayetteville



Consumers matter

If each resident bought \$5 of food directly from some farm in state each week...

...farms would earn **\$773 million**



Three Studies Sponsored by State Health Departments

Indiana (CDC funds; 2012)

Alaska (CDC funds; 2015)

Hawai'i (SNAP-Education funds; 2017)



Three Studies Sponsored by State Health Departments

Indiana

Alaska

Hawai'i



**Hoosier Farmer?
Emergent Food Systems in Indiana**



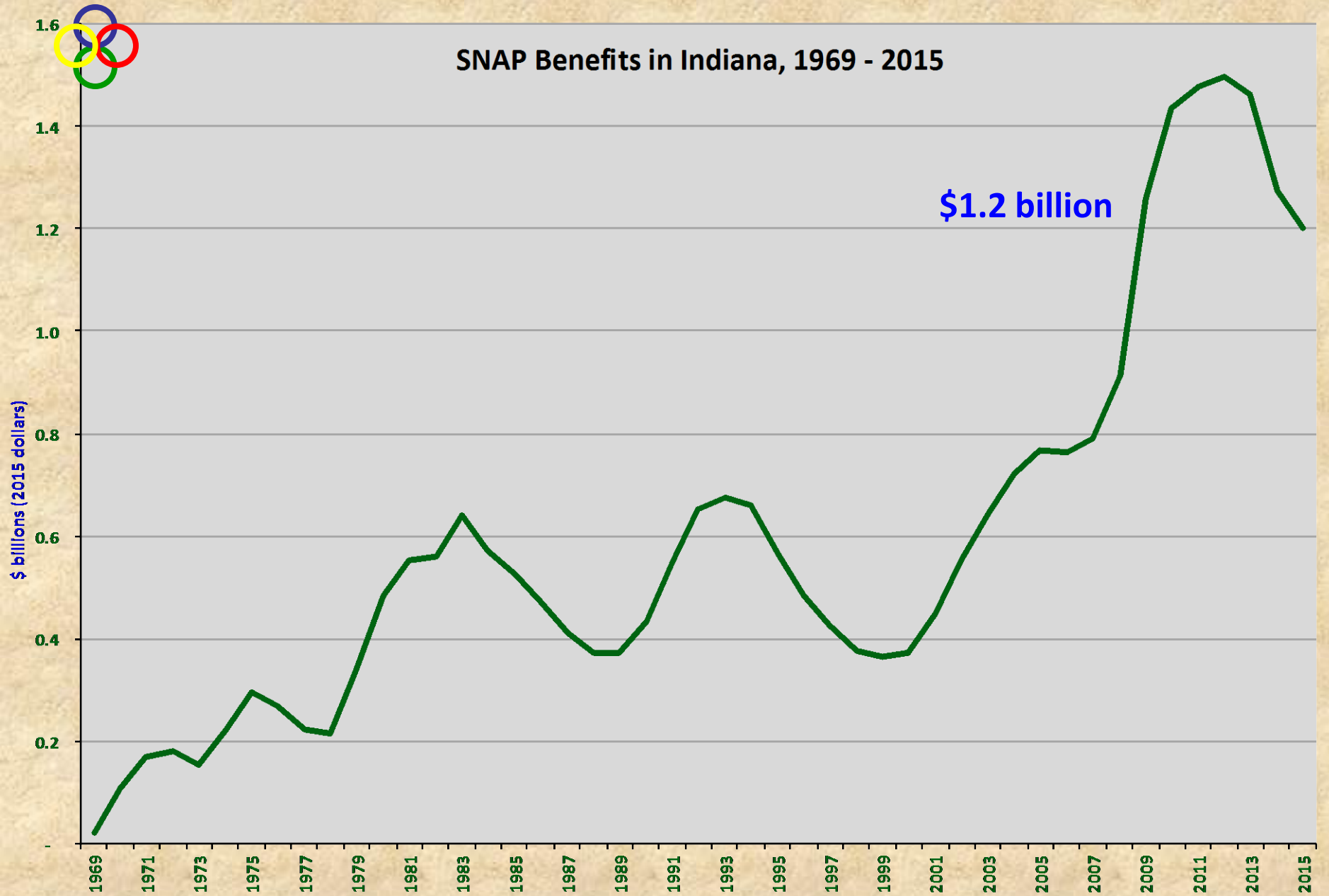
Three Studies Sponsored by State Health Departments

**Indiana farmers sell \$10 billion
of crops & livestock**

10th Largest farm state

\$16 billion of food sourced outside

SNAP Benefits in Indiana, 1969 - 2015



\$1.2 billion



Three Studies Sponsored by State Health Departments

Indiana

Alaska

Hawai'i



Building Food Security in Alaska





Top Alaska farm products

	\$ millions
1. Ornaments	13.0
2. Hay	4.4
3. Vegetables	3.3
4. Misc. Livestock	2.8
5. Potatoes	2.5
6. Cattle & Calves	1.7
7. Dairy Products	1.3
8. Barley	1.0

Total for humans ~\$12 million



Cities often built on best farmland





CTION

Chena Hot Springs



Chena Hot Springs



Purchased diet invokes public costs

The Alaska Native age-adjusted rate of death from preventable chronic diseases ran 1.4 to 2.1 times that of their White peers

Some analysts note that weight-related health conditions are closely correlated with moving away from traditional foods to purchased foods



Widening losses

**Often the people who captained
subsistence hunting parties were also
commercial fishers**

**When they sold their fishing permits, often no
one in their families had the equipment
required to fish for subsistence**

**Many people could no longer
access traditional foods**



Turning to stores threatens culture

As people turn to stores for their food, this leads to the **loss of language, since people have fewer occasions where they draw upon these skills**





Cultural importance

“Food is our best connection.

Culture *is* medicine.”



Key recommendations

**How much land would be required to provide
all of Alaska's demand?**

[At current rates of consumption]

	acres
• Potatoes	4,700
• Carrots	200
• Cabbage	200
• Lettuce	600



Three Studies Sponsored by State Health Departments

Indiana

Alaska

Hawai'i

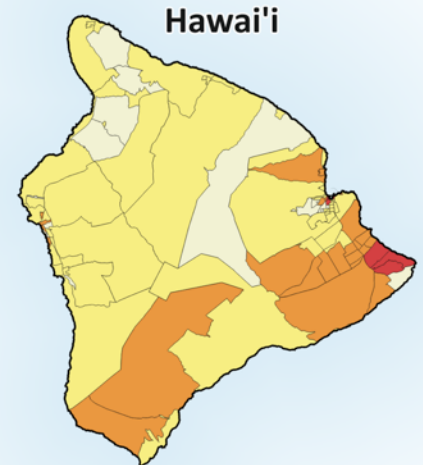
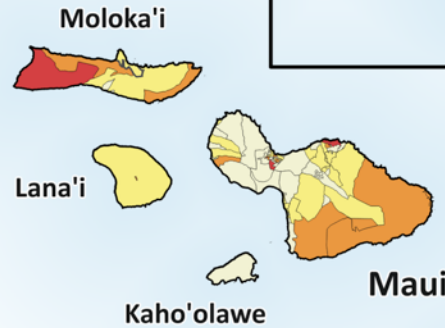
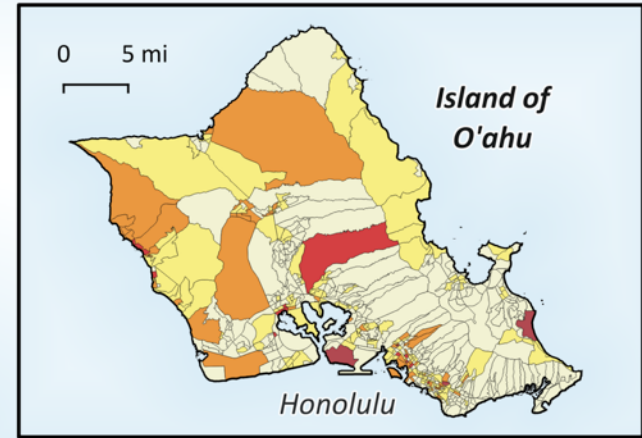
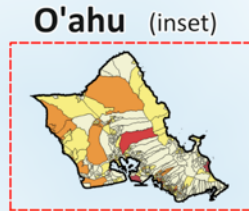


Hawai'i Food For All

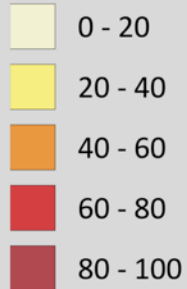



GoFarm, Waimanalo

Population Below Livable Wage



**Population Living Below
185% of Poverty Level : ***



 County Boundaries

0 25 50 75 mi



* Census data represent 5-year
mean averages from 2010 to 2014

Projected in Hawaii Albers Equal Area Conic
Scale : 1:2,500,000

Sources :

US Census Bureau Census Tracts
& Block Groups (TIGER/Line 2015)
US Federal Census Statistics 2010 - 2014
NRCS State & County Boundaries

GEOSPATIAL & CARTOGRAPHIC SERVICES BY
BRENDAN HEBERLEIN

The logo consists of three interlocking circles in blue, yellow, and red, positioned to the left of the text.

Hawai'i Food Systems

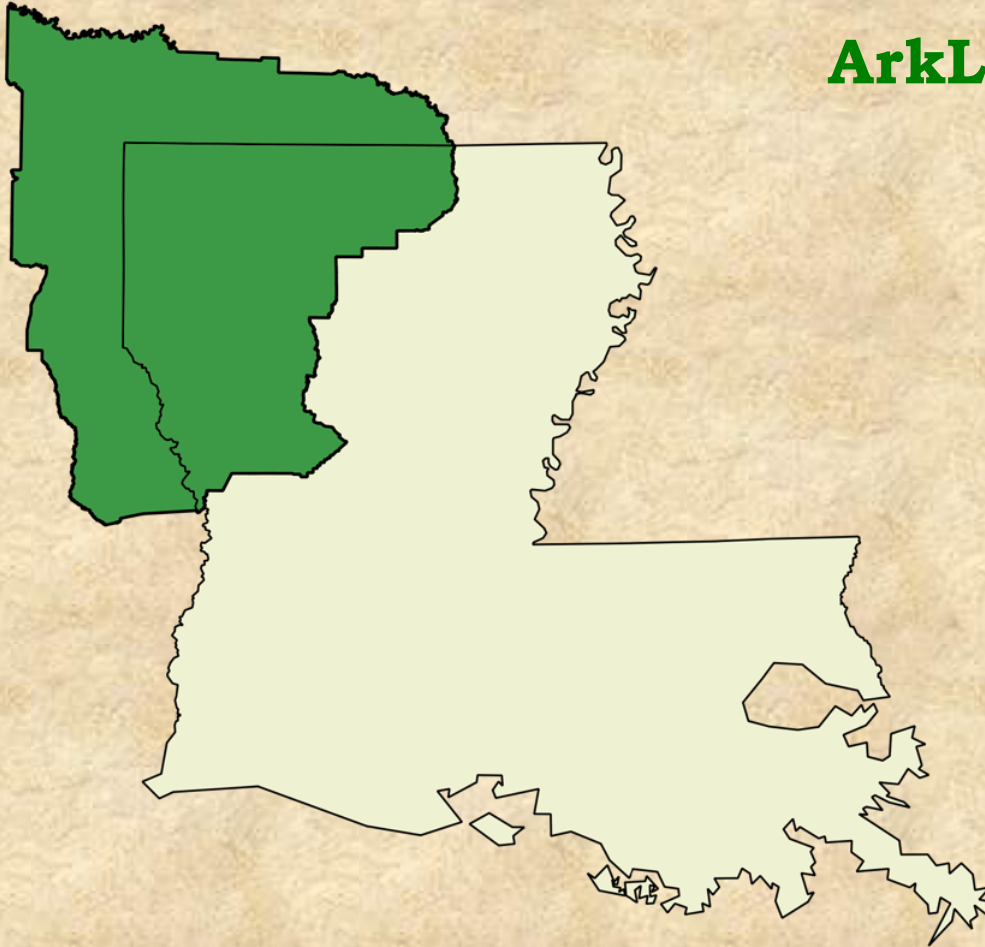
Recommendations:

- **Improve SNAP Enrollment**
- **Build Stronger Network of Community-Based Foods Initiatives**
- **Establish Community Food Systems as Public Trust**



Craft a Narrative

ArkLaTex Region



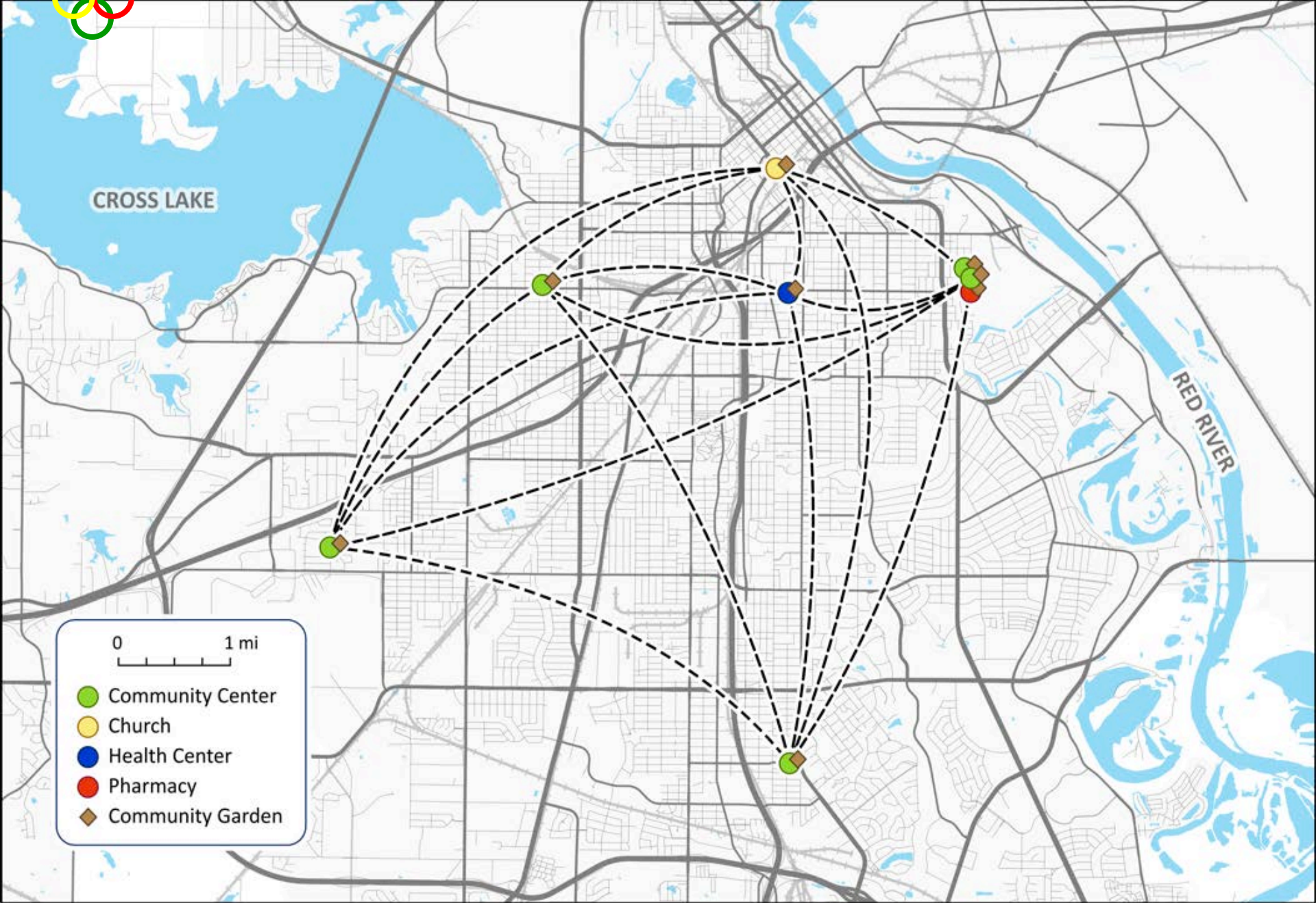
*Map by Brendan
Heberlein, 2016*



Harrice's Just Dinner, Shreveport



Community Hubs in Shreveport



CROSS LAKE

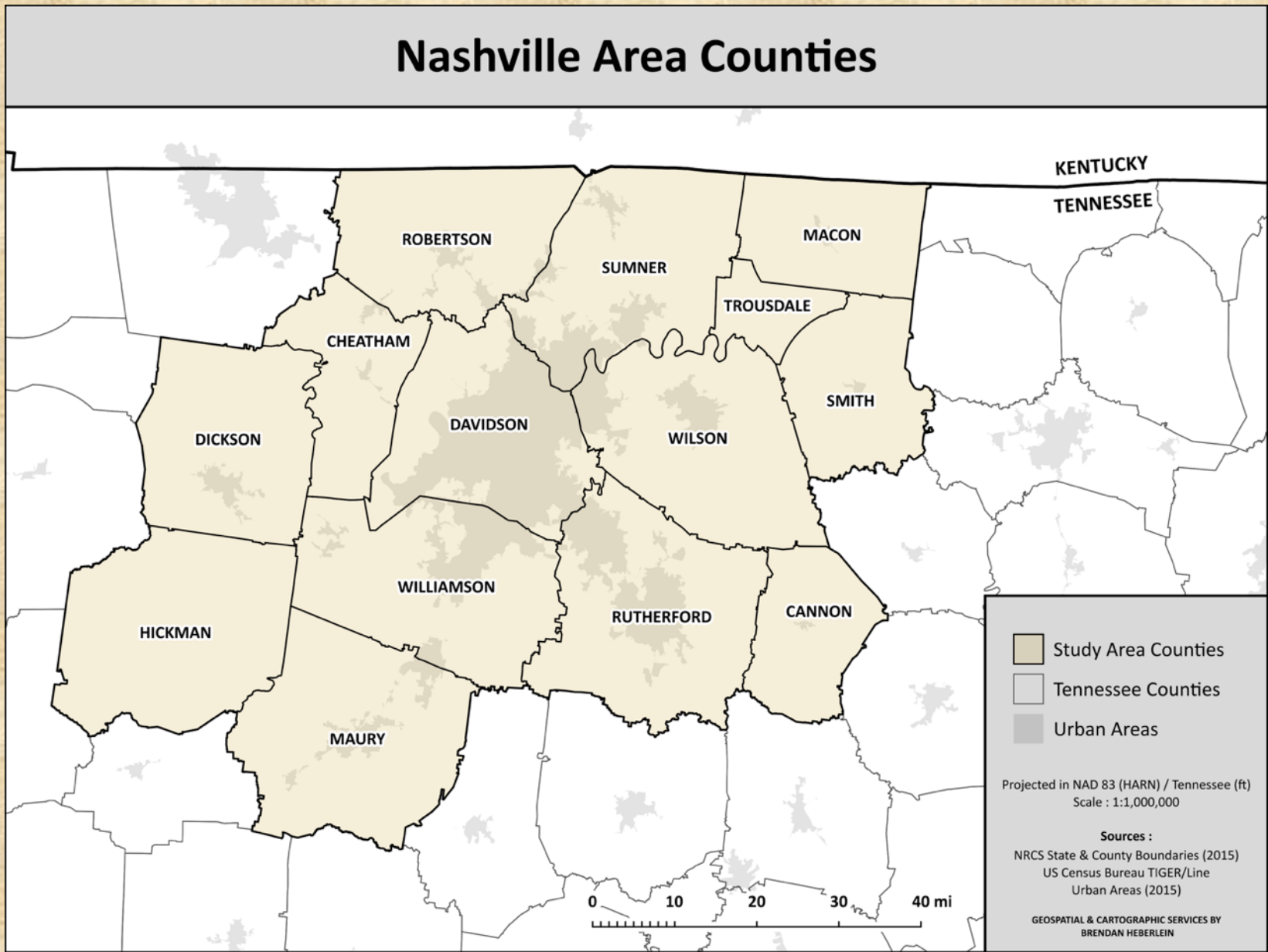
RED RIVER

0 1 mi

- Community Center
- Church
- Health Center
- Pharmacy
- Community Garden

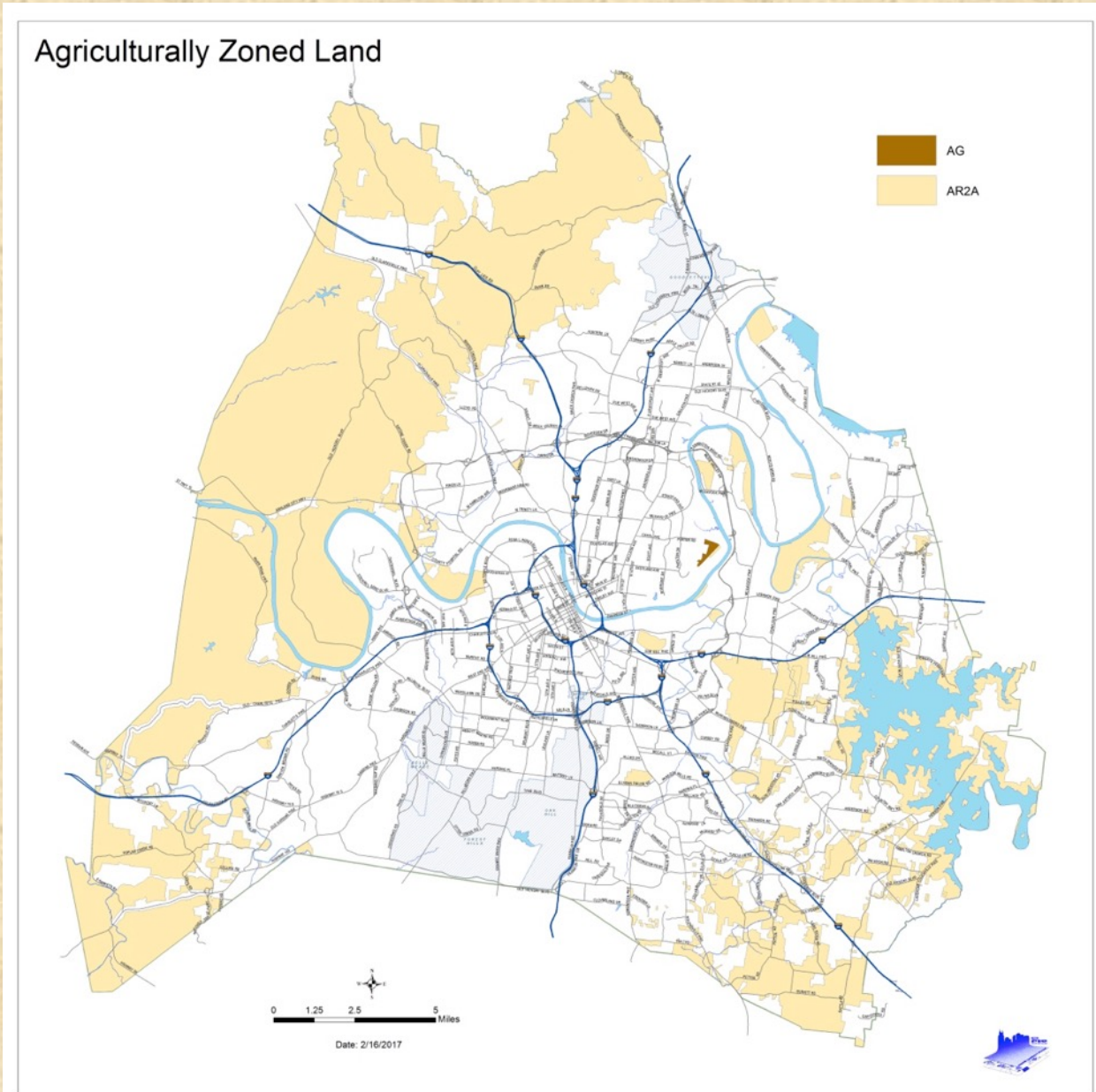


Metro Nashville — 14 Counties



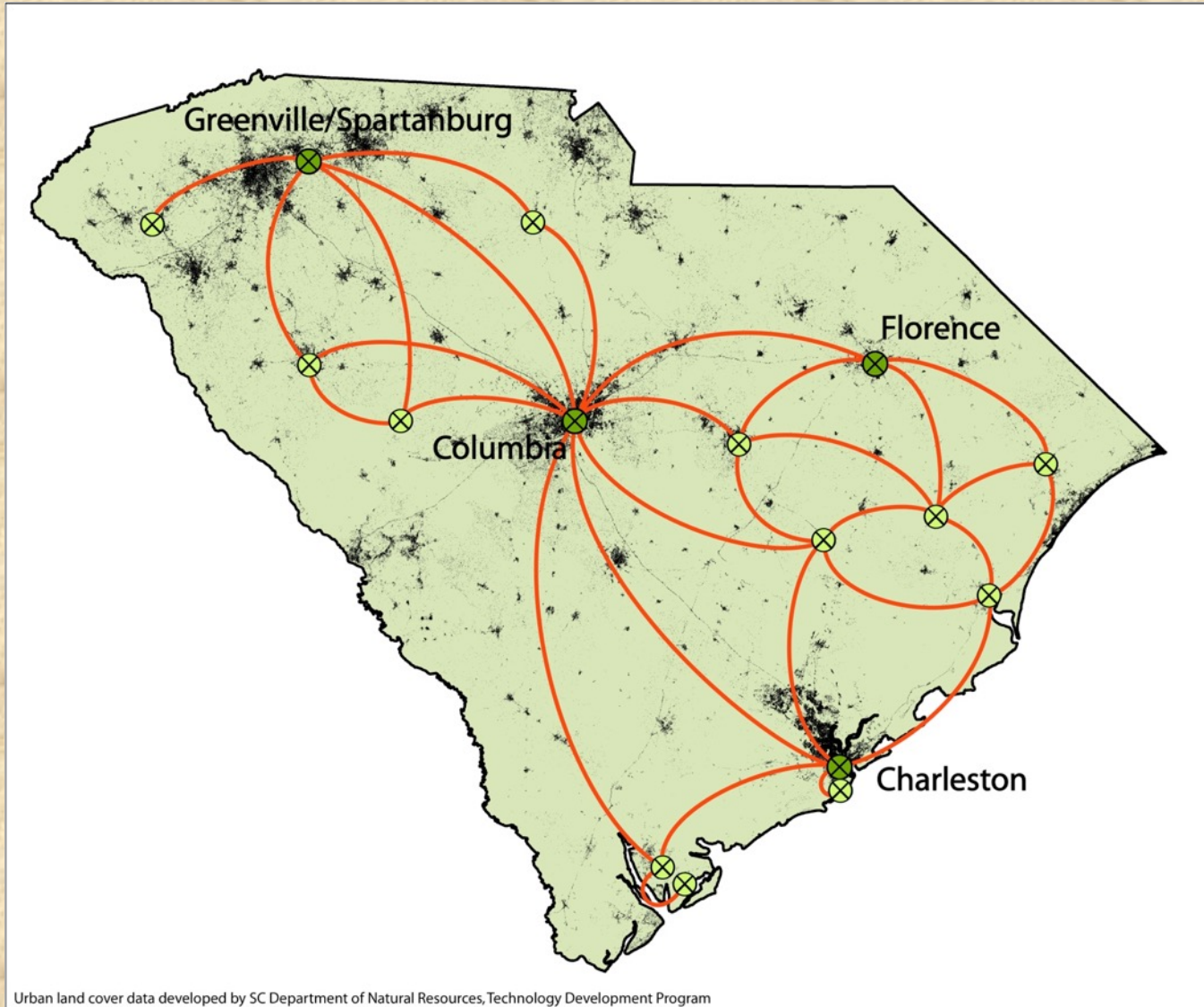


108,000 Acres of Agriculturally Zoned Land



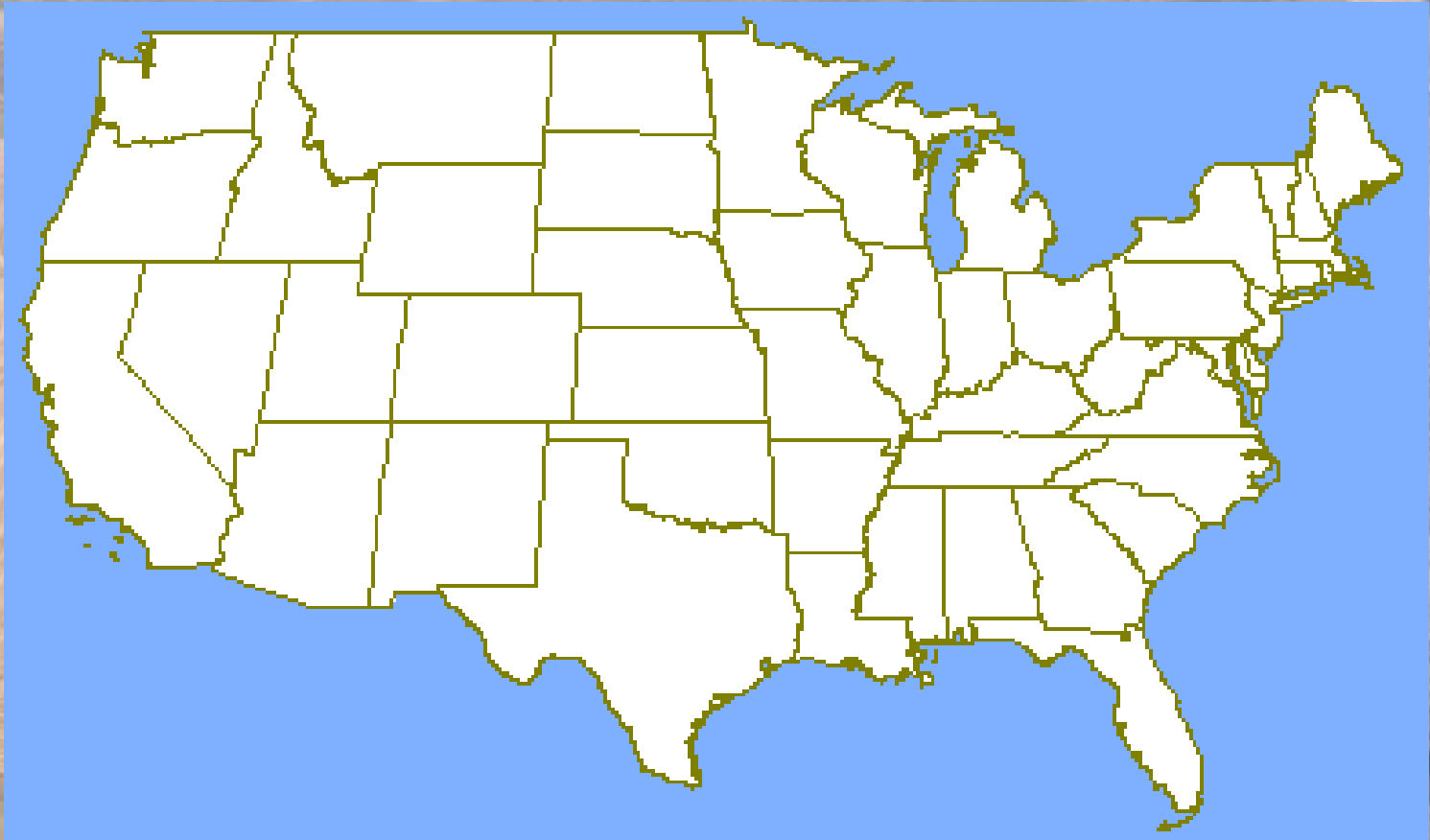


South Carolina "Food Web"





U.S. data

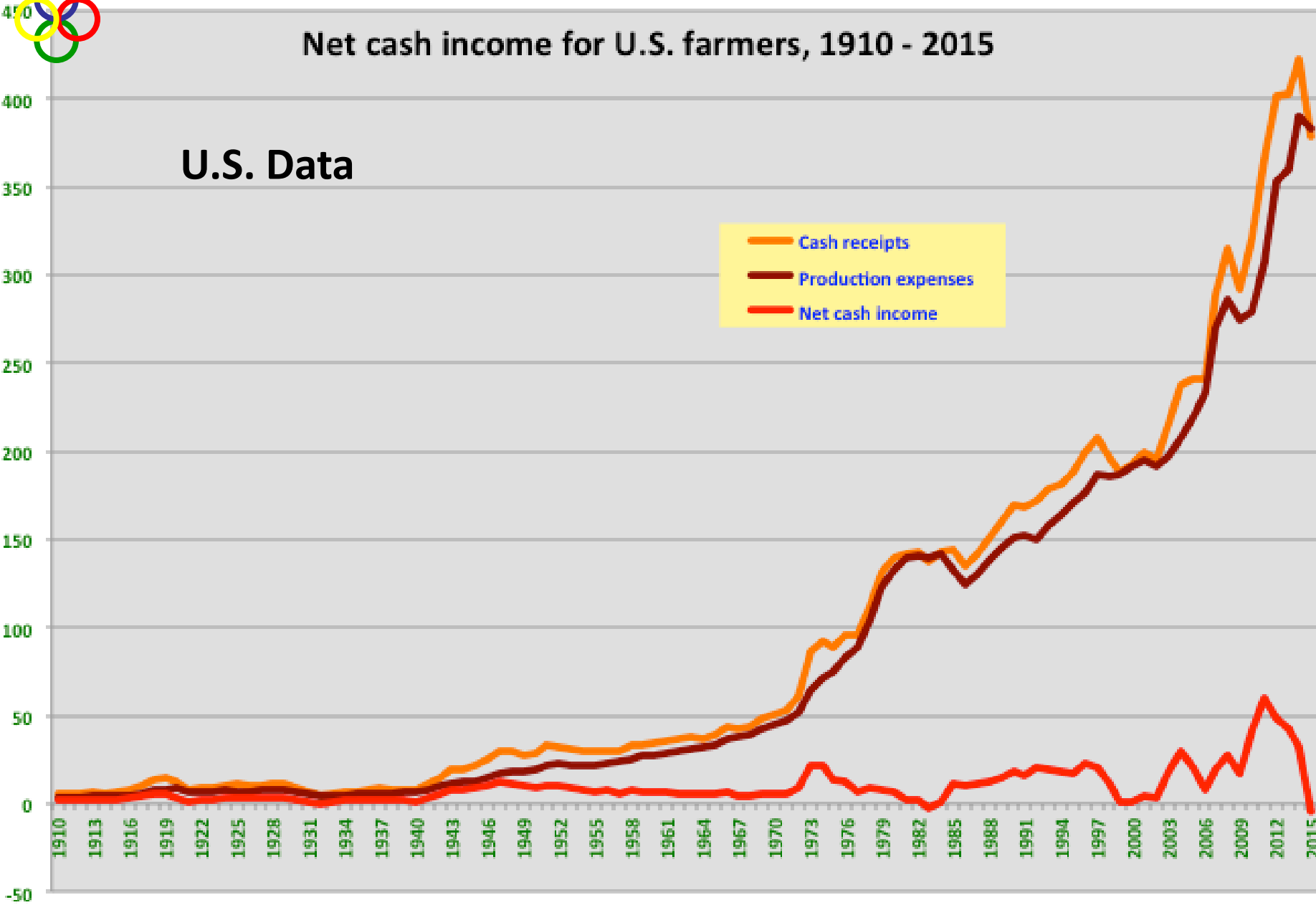


Net cash income for U.S. farmers, 1910 - 2015

U.S. Data

- Cash receipts
- Production expenses
- Net cash income

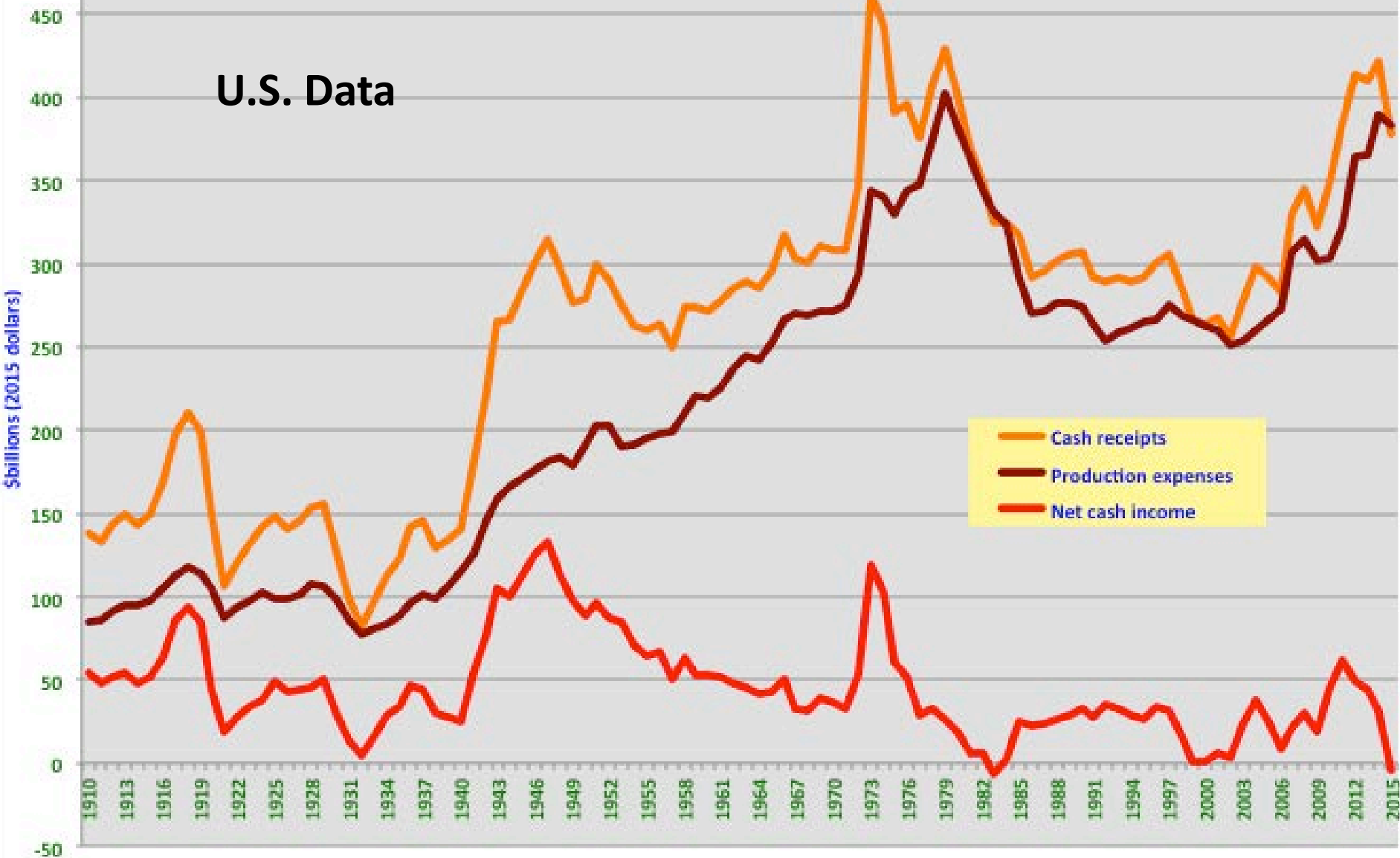
\$billions (year by year value)





Adjusted net cash income for U.S. farmers, 1910 - 2015

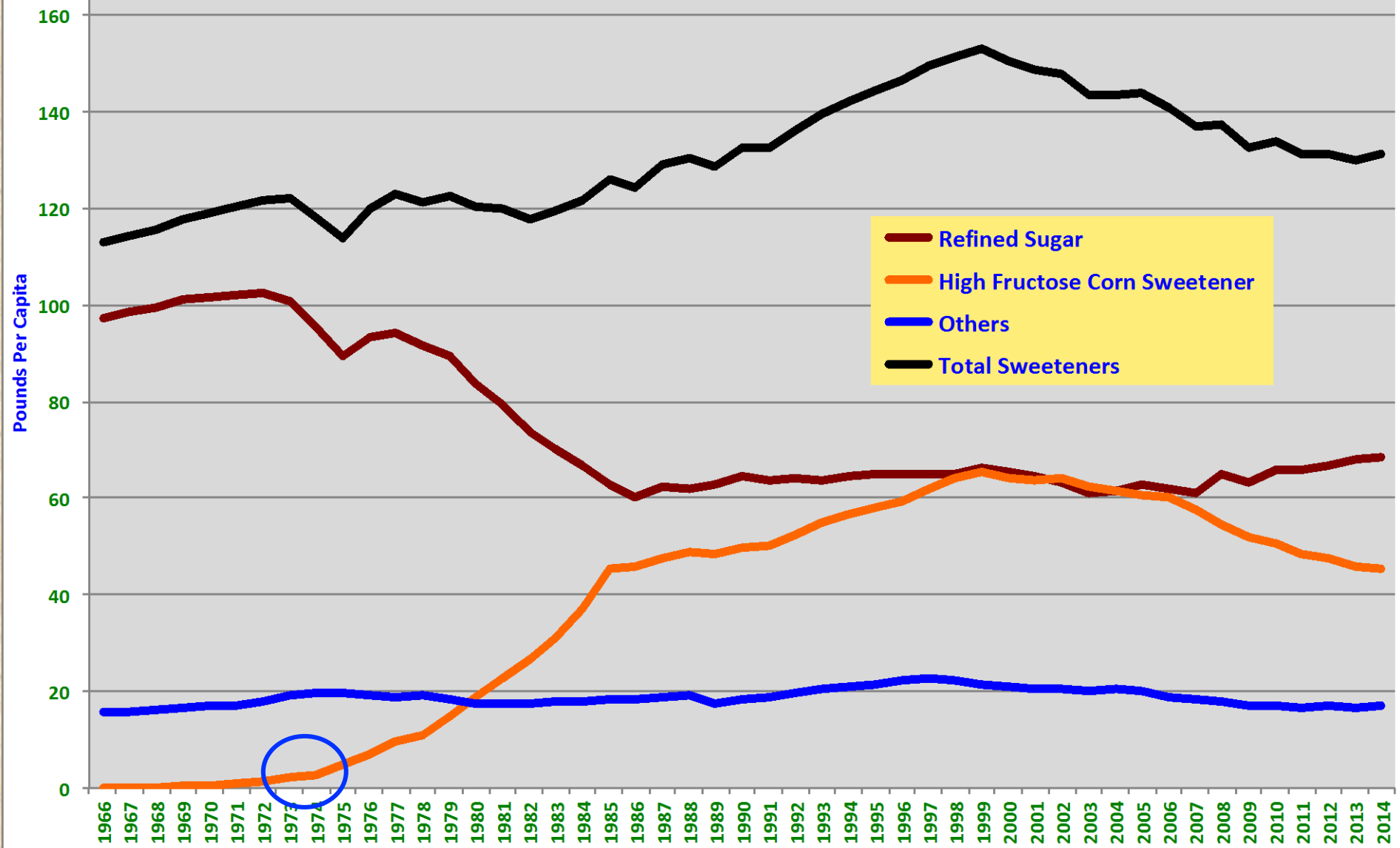
U.S. Data



Cash receipts
Production expenses
Net cash income

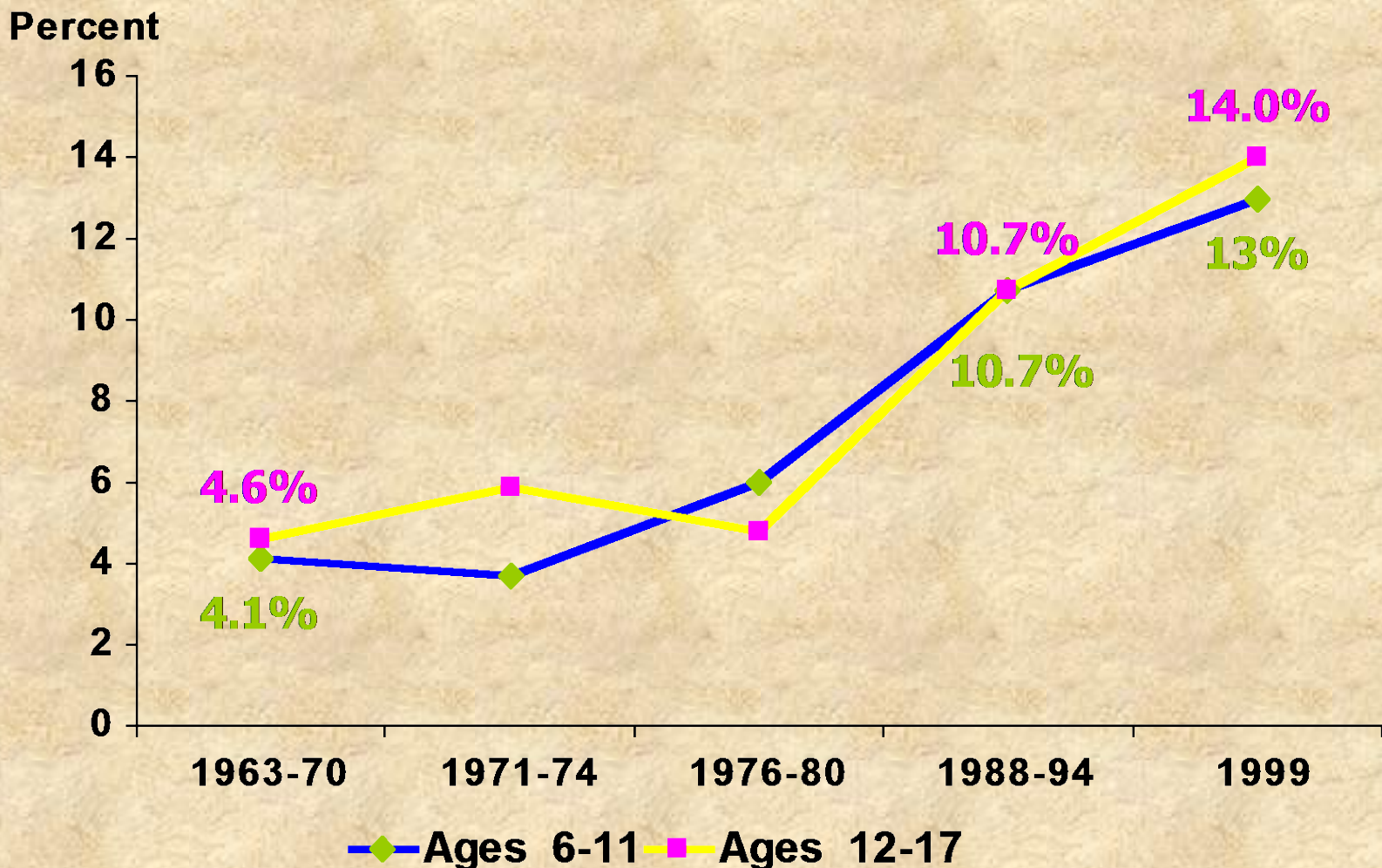


Sweetener Use in U.S., 1966 - 2014





U.S. Youth Who are Overweight Percent by Age

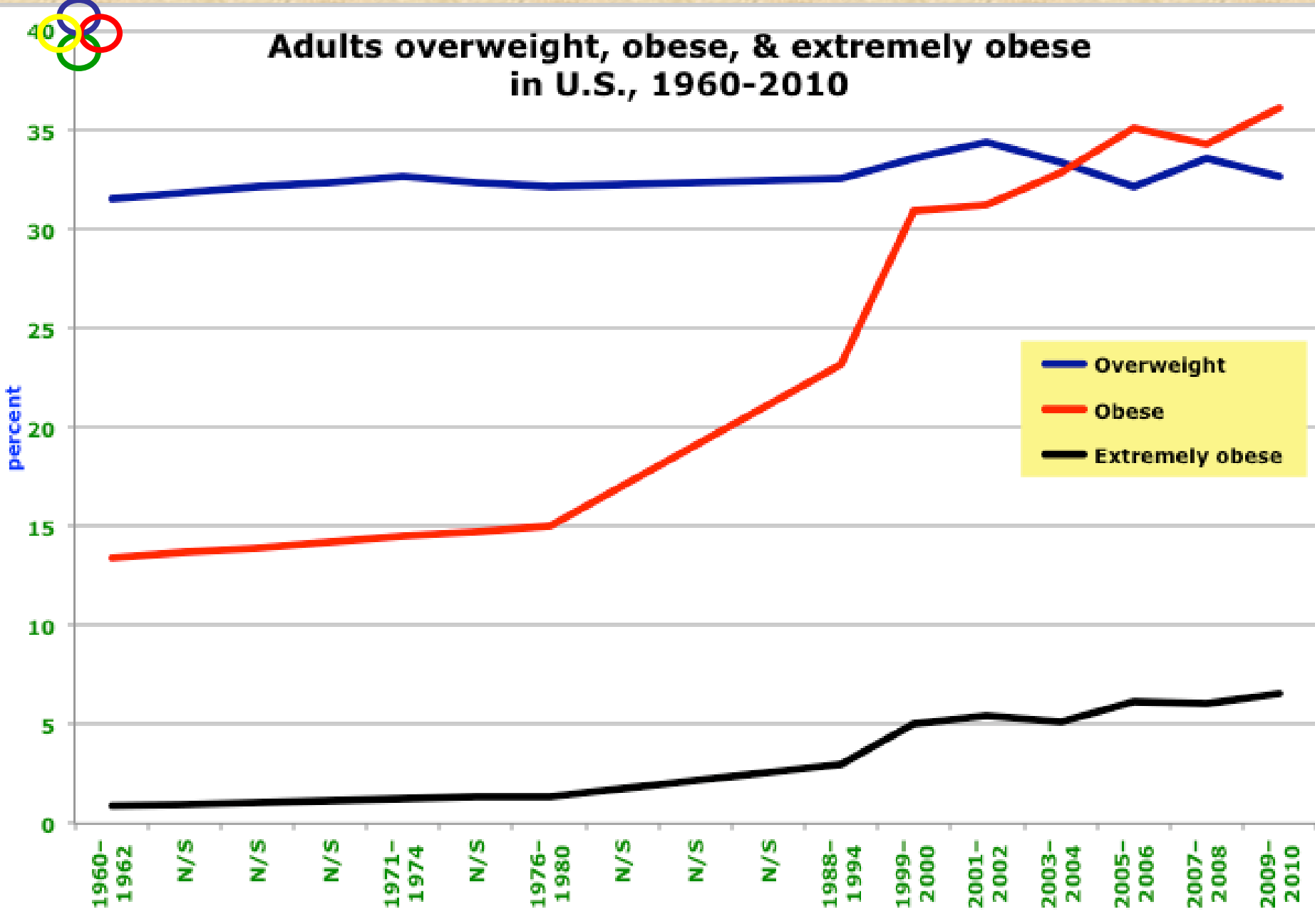


≥95th percentile for BMI by age and sex, based on NHANES I reference data

Source: Troiano RP, Flegal KM. Pediatrics 1998;101(3):497-504. NHANES 1999, National Center for Health Statistics. Chart by Melinda Hemmelgarn



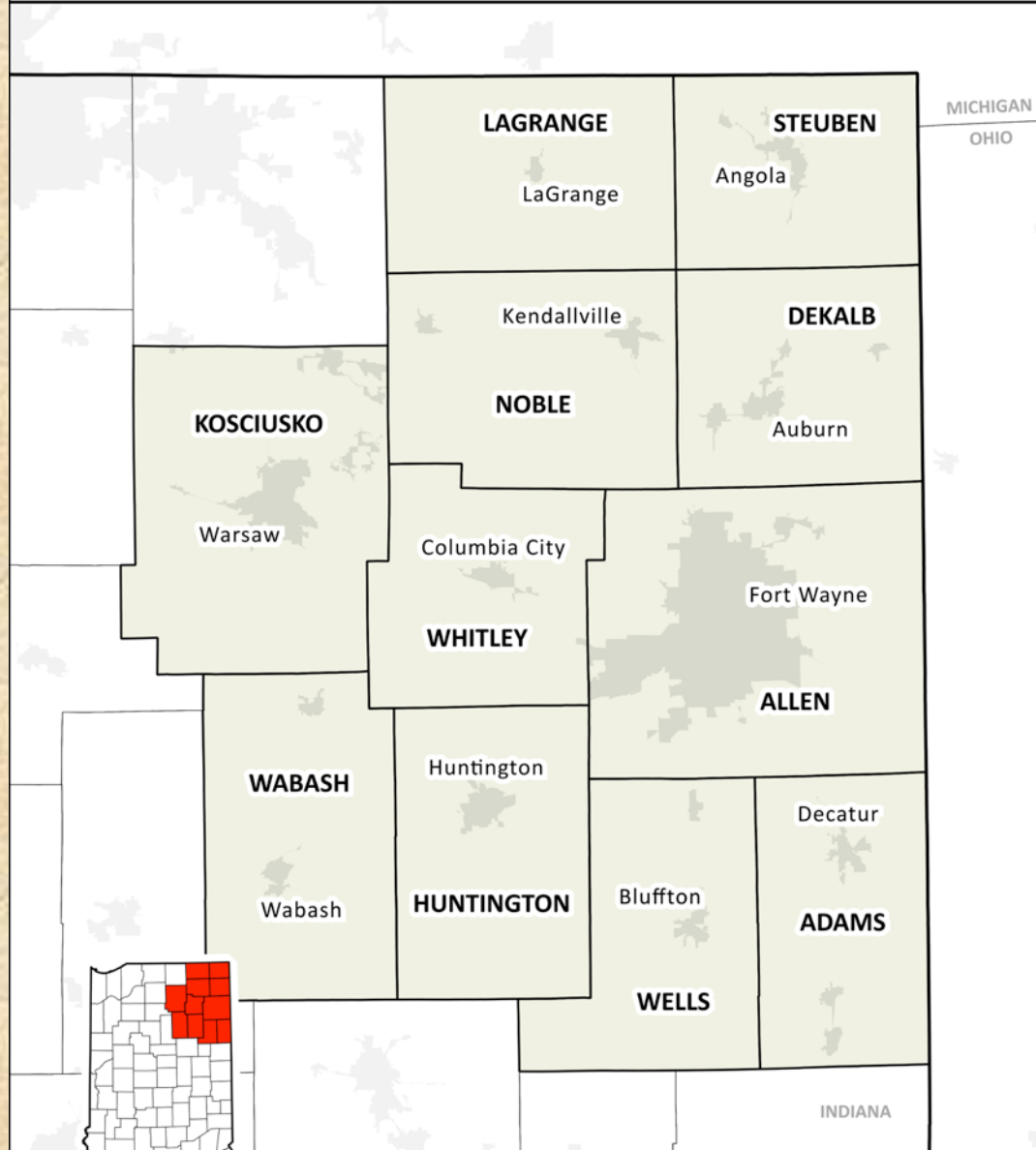
Adults overweight, obese, & extremely obese in U.S., 1960-2010



Source: NHANES — National Health and Nutrition Examination Survey



Northeast Indiana Region



0 10 20 30 40 mi



NE Indiana Local Food Network

Northeast Indiana Regional Partnership

with

11 Local Economic Development Organizations



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



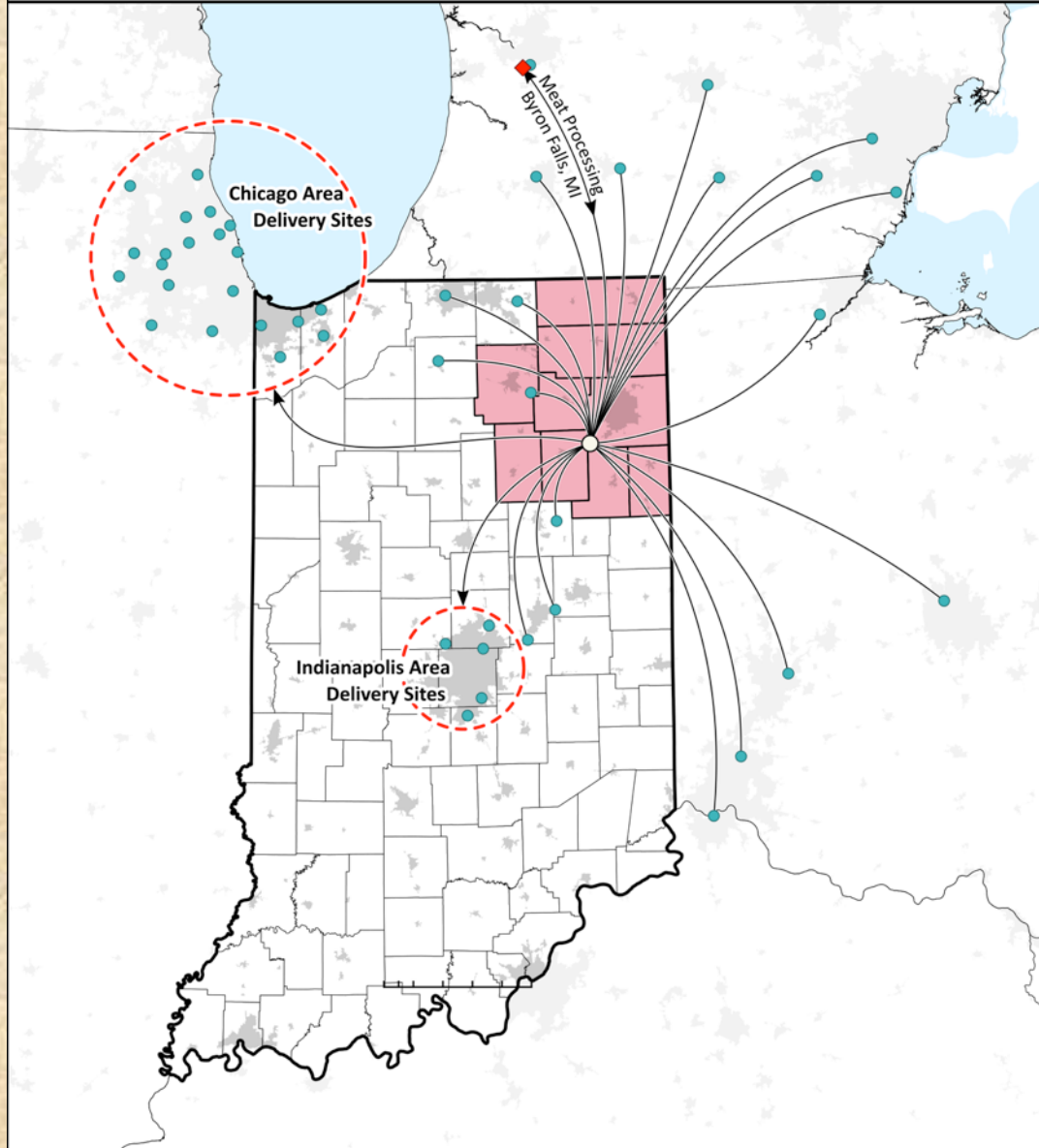


Blaine Hitzfield



Seven Sons Farm

Delivery Sites



45 Drop Sites
5,200 Names



Seven Sons Farm



Seven
BEEF C...



Seven Sons Farm





THE SMOKING GOOSE
4637 NORTH DURHAM ST. | INDIANAPOLIS, IN. 46202

APPLEWOOD
SMOKED BACON

320111153

INDIANA MAPLE SYRUP, BROWN SUGAR

NET WT.
12 OZ.



**smoking
GOOSE**
Durham Street Meatsery

**APPLEWOOD
SMOKED BACON**

PORK BELLY, INDIANA MAPLE SYRUP, BROWN SUGAR

SLOW CURED & HAND DEX

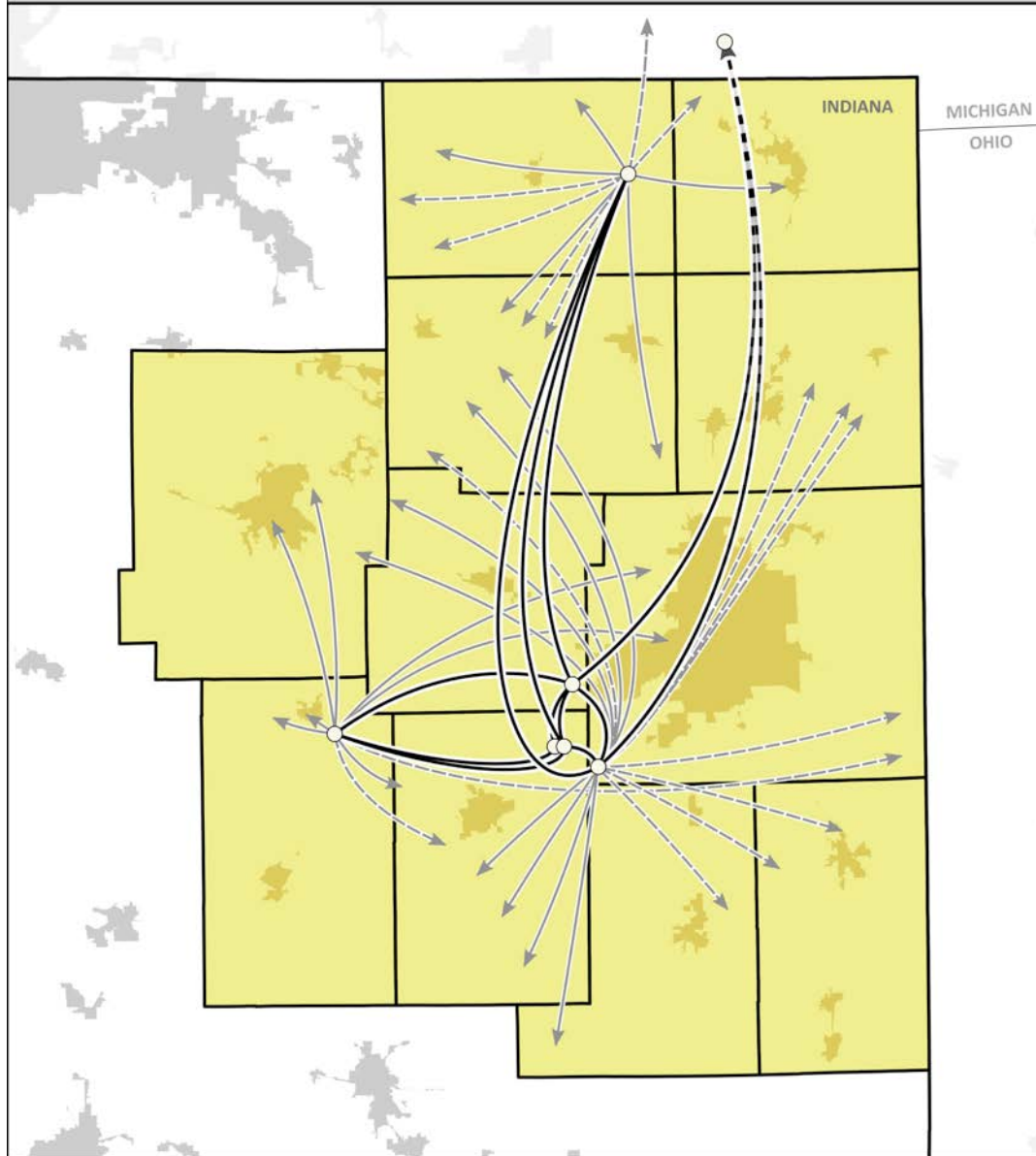
GOOD CLEAN & FAIR

NET WT.
12 OZ.

SG



Network Overview



— Primary Connections — In-State Connections - - - Out-of-State Connections

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

**Northeast
Indiana**



Tucson



Phoenix

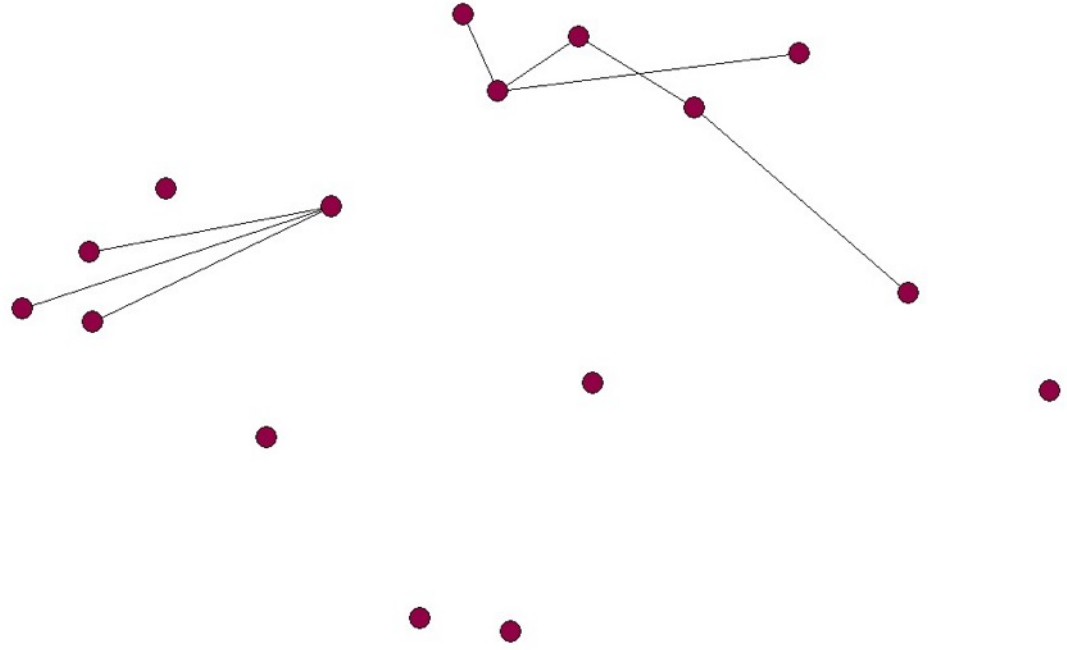


Phoenix





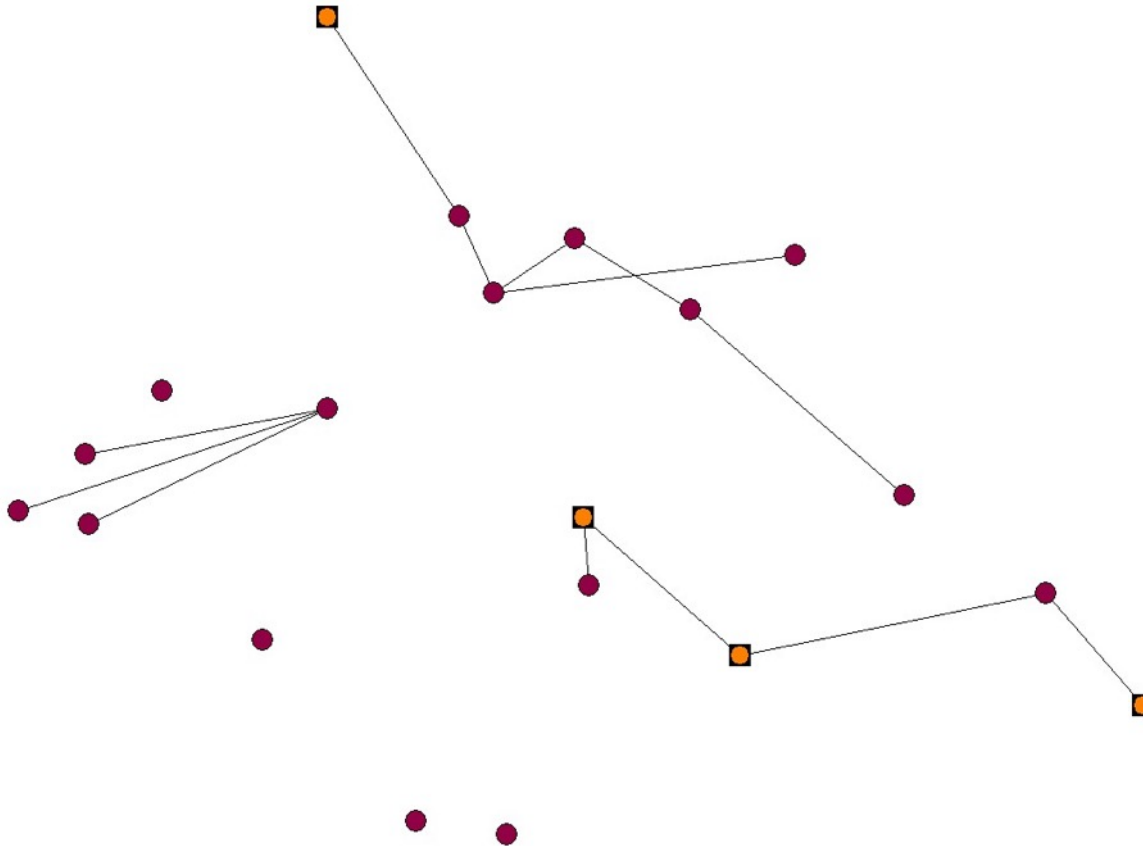
Farmers Only



Meter, Goldenberg, & Ross 2018



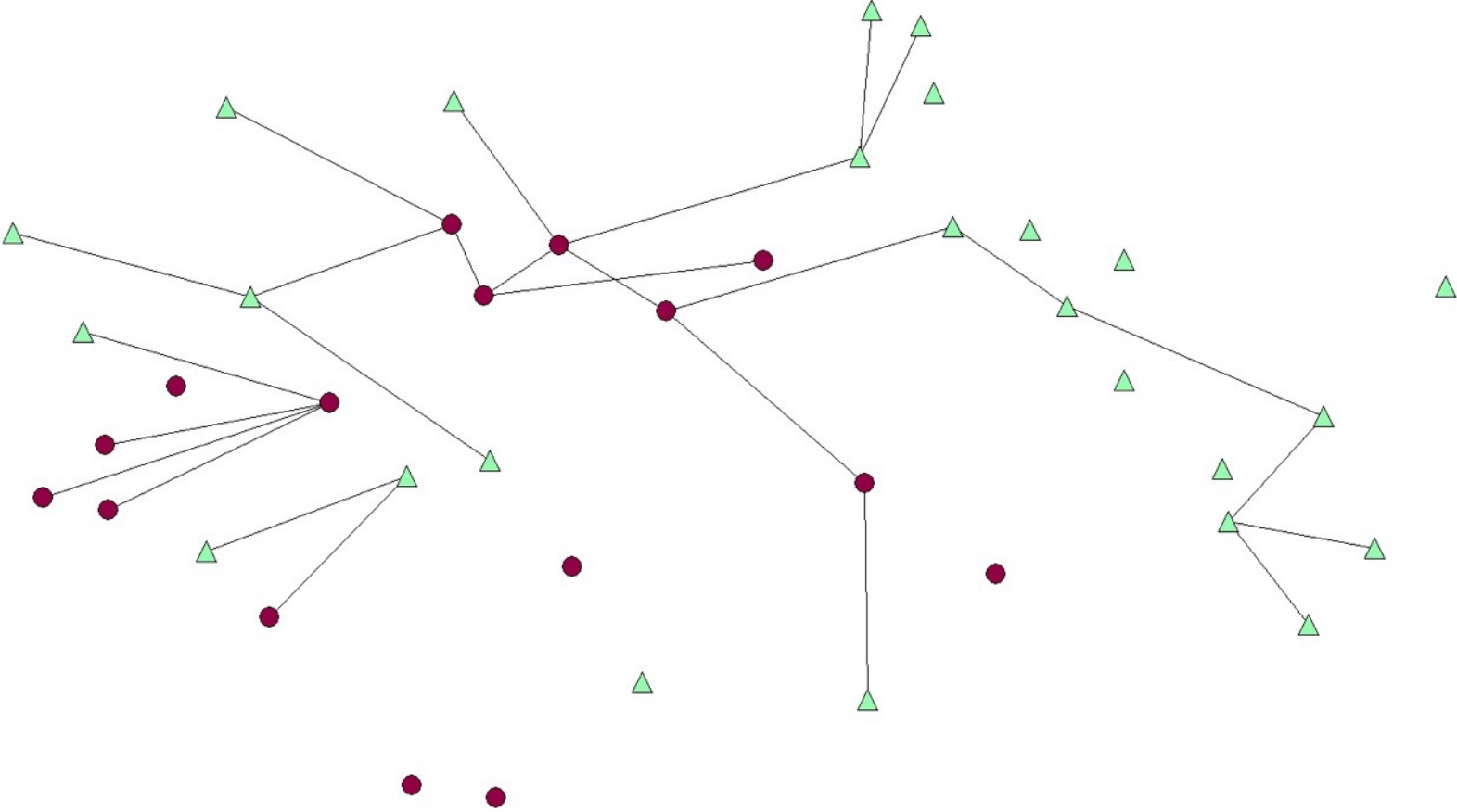
Farmers and Farm Organizations



Meter, Goldenberg, & Ross 2018



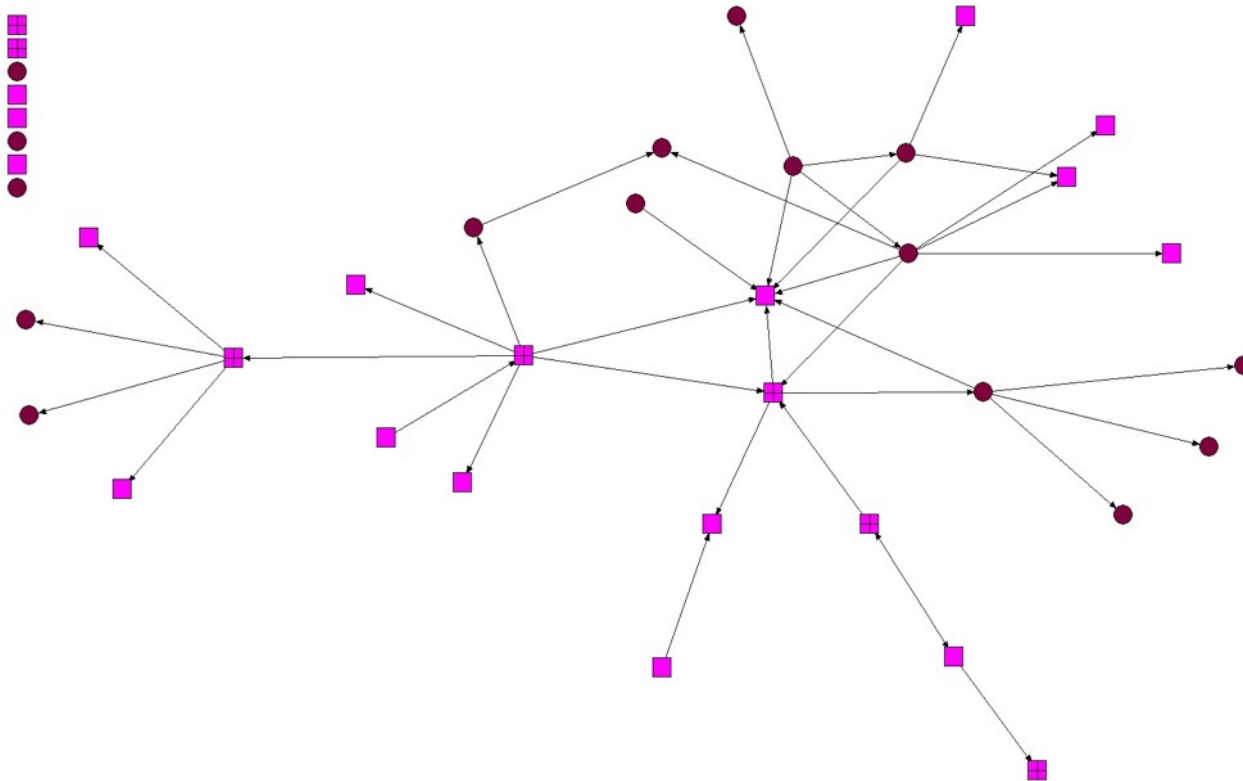
Farmers and Nonprofits



Meter, Goldenberg, & Ross 2018



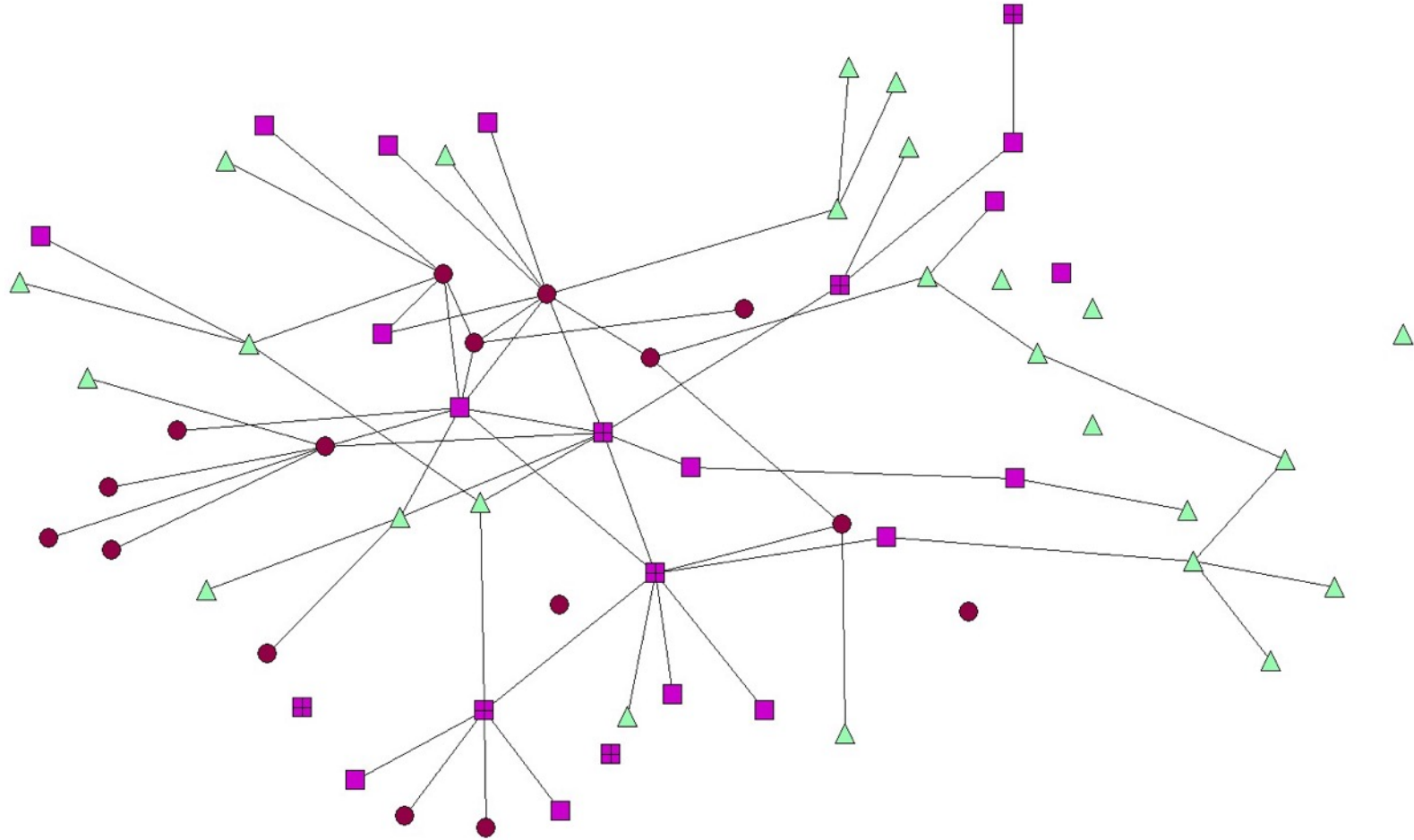
Farmers and Buyers



Meter, Goldenberg, & Ross 2018



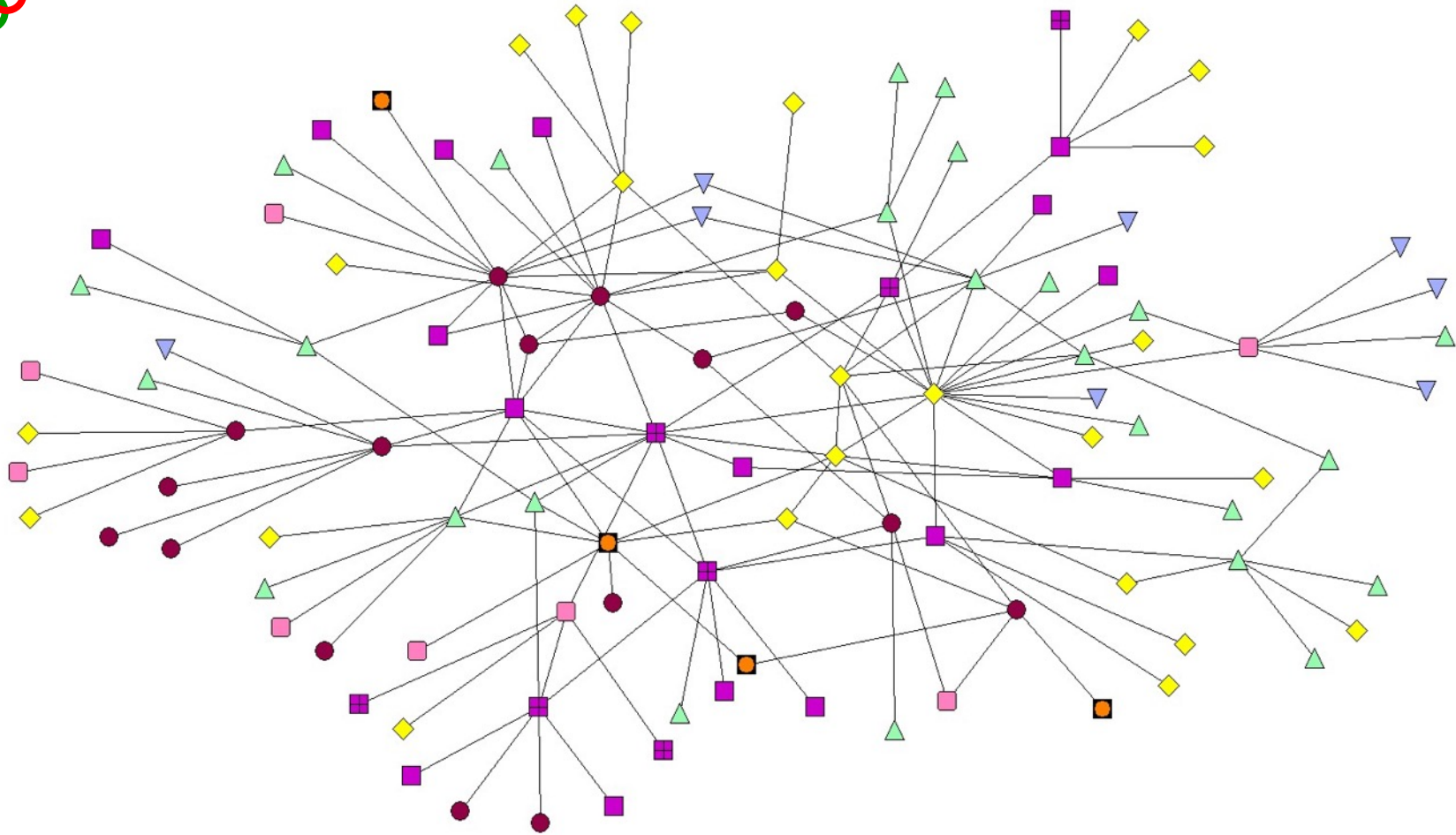
Farmers and Nonprofits and Buyers



Meter, Goldenberg, & Ross 2018



Whole Network



Meter, Goldenberg, & Ross 2018



My Recommendations

Build social & commercial networks

Engage low-income residents in creating solutions

**Build infrastructure that
creates community efficiencies**



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Current Work for Crossroads Resource Center

Alaska Health Department (2018)

Policy Recommendations for AK Food Policy Council

Central Louisiana (2018)

Attract New Demand for Local Foods

City of Auburn, Maine (2018)

Update Protections for 20,000 Agricultural Acres

Metro Phoenix, Arizona (2018)

Food Assessment Showing Emerging Food Networks

Amery, Wisconsin (2018)

Growth of a Food Business Cluster

Local Farm & Food Economy Studies

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