



GNARLY TREE
SUSTAINABILITY
INSTITUTE

City of Bloomington Sustainability Action Plan Local Food and Agriculture Meeting 4

MaCie' Moore
26 April 2018

SPEA

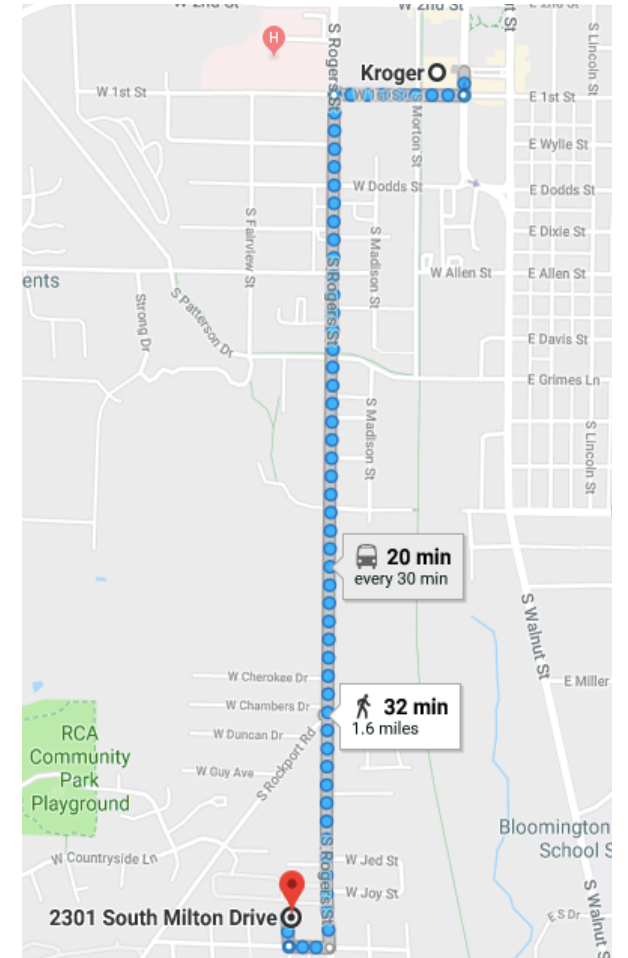
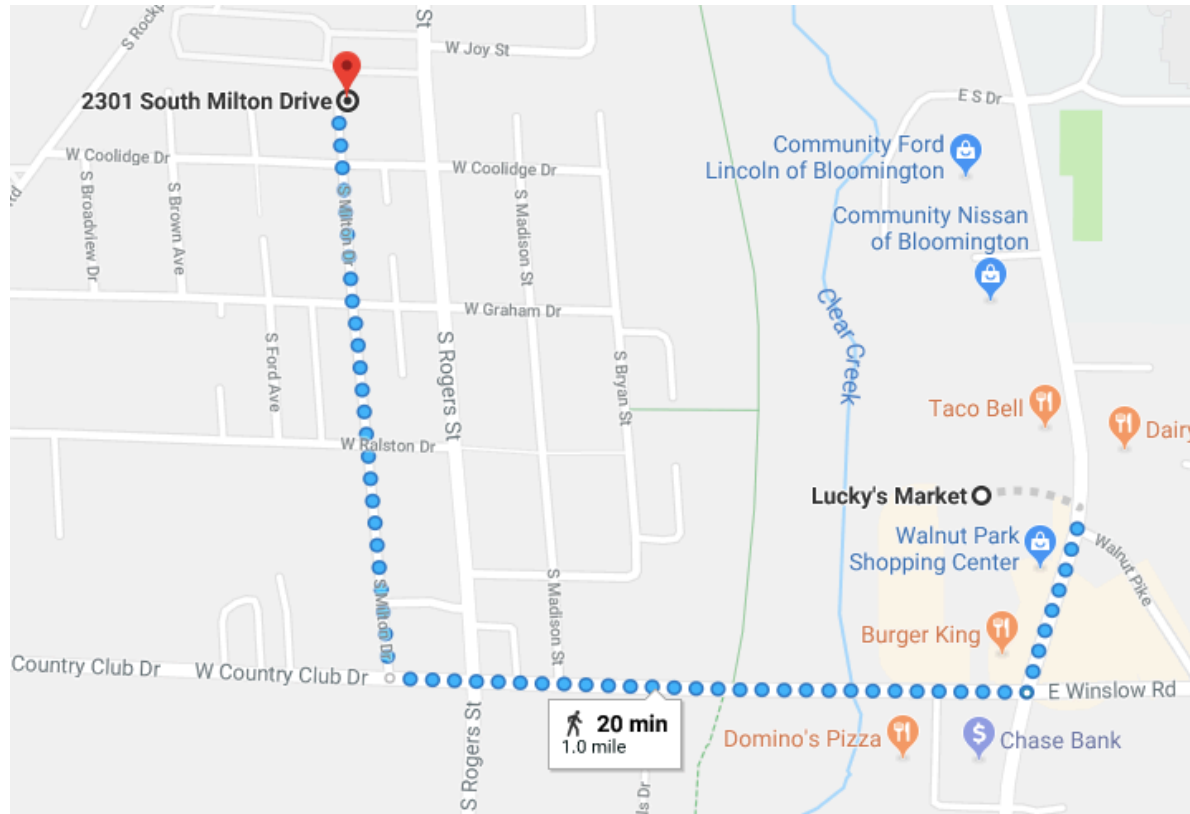
Lead for the Greater Good





Food Accessibility Recap

2301 South Milton Drive
 Lucky's Market (1Mile): 20miute Walk
 Kroger(1.6Miles): 20 minute Bus Ride;
 32 Minute Walk

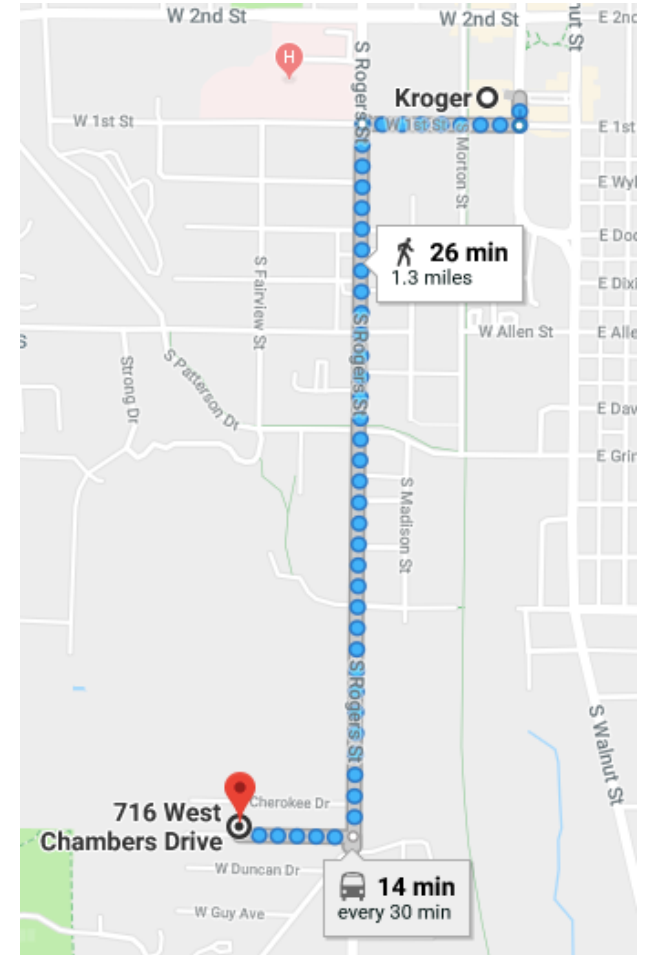
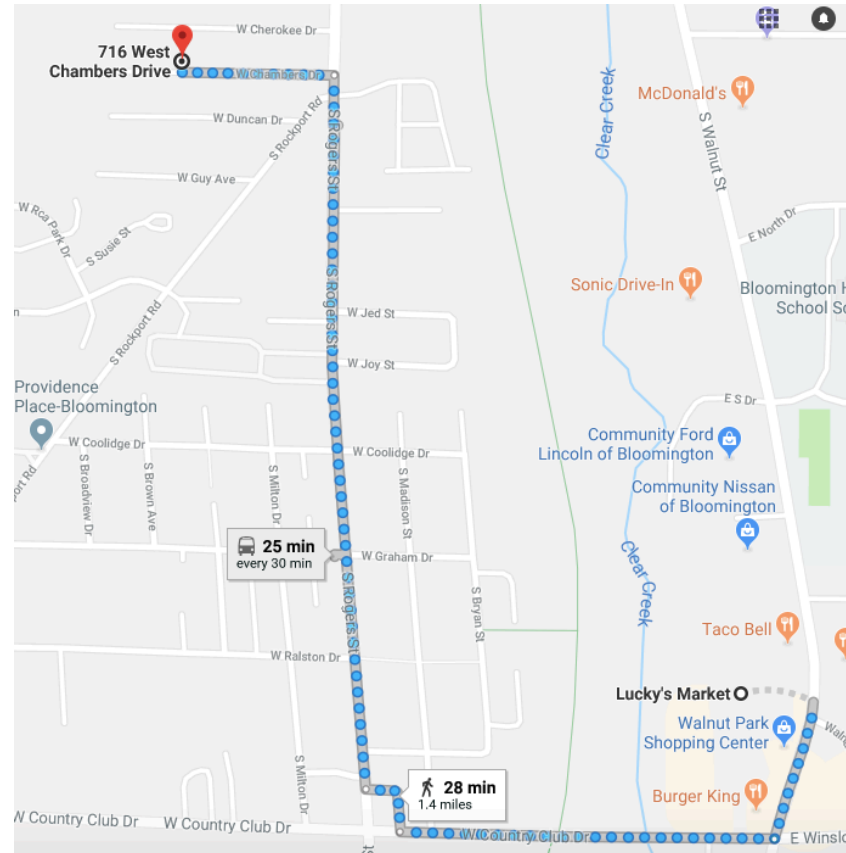




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Food Accessibility Recap

716 West Chambers Drive
Lucky's Market(1.4 Miles): 28 Minute Walk;
25 minute bus Ride
Kroger (1.3 Miles):26 Minute Walk; 14
Minute Bus Ride





Food Utility and Food Stability

Current Situation in Bloomington

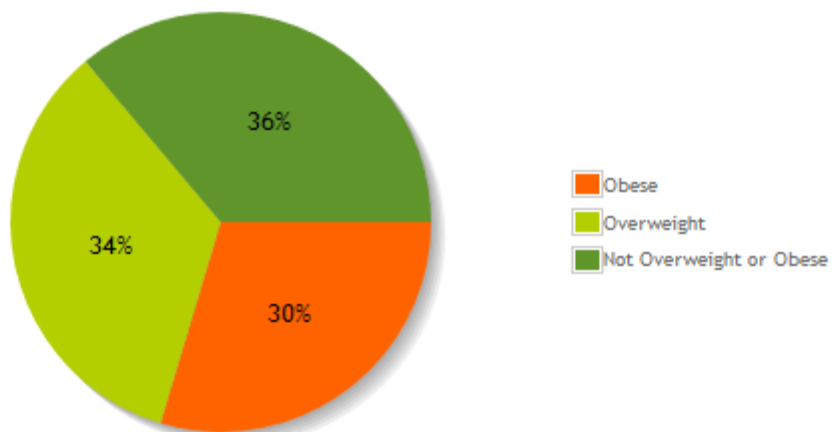
- In 2017 , the city of Bloomington's Park and Recreation Department offered 9 classes with a total of 104 participants, this was a 40% decrease in the number of classes and a 53% decrease in the number of participants from the previous year
- In the city of Bloomington, 86% of adults reported eating fewer than 5 fruits and vegetables per day
- In the city of Bloomington, 64% of the population was considered either overweight or obese in 2013
- The Monroe County Community School Corporation (MCCSC) offers an interactive tool, allowing students to view the nutritional value of the food being served at all MCCSC schools
- In the city of Bloomington, there has been an increase in the amount of education surrounding urban agriculture and the food systems (IU Campus Farm at Hinkle Garton, Jackson Creek Middle School's Legacy Garden Project, 4H programs, Indiana University's Sustainable Food System Concentration Courses)
- According to the 2012 Ag Census, the number of farmers in Monroe county has decreased by 4% from 481 in 2007, to 462 in 2012
- On a national level there has been a decline in the number and diversity of farmers in the U.S



Food Utility and Food Stability

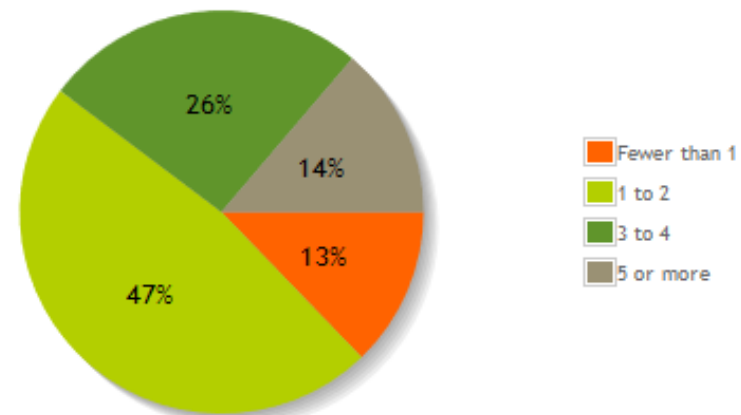
Health of Bloomington Residents

BMI Classification in 2013, Bloomington



Source: CDC Behavioral Risk Factor Surveillance System 2013, ACS 2009-2013

Number of Fruits/Vegetables Consumed per day in 2013, Bloomington



Source: CDC Behavioral Risk Factor Surveillance System 2013, ACS 2009-2013






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Food Utility and Food Stability

MCCSC Food and Nutrition Services

APRIL HIGH SCHOOL LUNCH

Monday	Tuesday	Wednesday	Thursday	Friday																				
2 Monte Cristo Chili Dog Potato Smiles Broccoli Cuts Seasonal Fruit Assorted Juice	3 Philly Cheese Steak Sandwich Seasoned Potato Wedges Steamed Carrots Seasonal Fruit Assorted Juice	4 Mini Turkey Corn Dog Veggie Sub Green Beans Seasonal Fruit Assorted Juice	5 Grilled Chicken Ciabatta Potato Wedges Seasonal Fruit Assorted Juice	6 Sweet & Sour Meatballs Rice Pilaf Asian Blend Vegetables Seasonal Fruit Assorted Juice																				
9 Sloppy Joe Sandwich Green Beans Seasonal Fruit Assorted Juice	10 Rotini with Pasta Sauce Rotini With Meat Sauce Broccoli Cuts Garlic Toast Seasonal Fruit Assorted Juice	<div><h4>Bean & Cheese Burrito</h4><div><div><p>Milk Wheat</p></div><div><p>Serving Size: 1 BURRITO</p><table><tr><td>Calories</td><td>398 kcal</td></tr><tr><td>Total Fat</td><td>8 g</td></tr><tr><td>Saturated Fat</td><td>3 g</td></tr><tr><td>Cholesterol</td><td>15 mg</td></tr><tr><td>Sodium</td><td>450 mg</td></tr><tr><td>Carbohydrates</td><td>65 g</td></tr><tr><td>Dietary Fiber</td><td>12 g</td></tr><tr><td>Protein</td><td>20 g</td></tr><tr><td>Vitamin A</td><td>459 IU</td></tr><tr><td>Vitamin C</td><td>3 mg</td></tr></table></div></div></div>			Calories	398 kcal	Total Fat	8 g	Saturated Fat	3 g	Cholesterol	15 mg	Sodium	450 mg	Carbohydrates	65 g	Dietary Fiber	12 g	Protein	20 g	Vitamin A	459 IU	Vitamin C	3 mg
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Vitamin C	3 mg																							
16 Orange Chicken Rice Pilaf Asian Blend Vegetables Seasonal Fruit Assorted Juice	17 BBQ Pork Sandwich Veggie Wrap Chickpea Salad Sweet Potato Fries Baked Apples Seasonal Fruit Assorted Juice																							
23 Baked Spaghetti Garlic Toast Green Beans Seasonal Fruit Assorted Juice	24 Bean & Cheese Burrito Enchiladas Mexican Rice Fiesta Peas Seasonal Fruit Assorted Juice																							
30 Meatball Sub (HS) Potato Wedges Green Beans																								

Daily Milk Choices

(included with meal)
8oz Fat Free White
8oz 1% White
8oz Fat Free Chocolate
8oz Lactose Free

High School Lunch Prices

Full lunch	\$2.90
Reduced lunch	\$.40
Adult lunch	\$3.45

Daily Menu Items

Assorted Fruit
100% Fruit Juice
Garden Salad
Veggie Trays
Chef Salad
Salad Bar
Chicken Wrap
Spicy Chicken Sandwich
Turkey & Spinach Wrap
Clux Deluxe Chicken Sandwich
Beef Taco
Turkey Sub
Cheesesteak
Hamburger/Bun
Bosco Sticks
Egg Salad Sandwich
Tuna Salad on Bread
Avers Pizza

A La Carte

Fruit Juice	\$.80
8 oz Milk	\$.60
Vegetable Side	\$0.80
Fruit Side	\$0.80
Additional Entrée	\$2.10 & \$2.25
Chips	\$1.00
Switch	\$1.00
Gatorade G2	\$1.00
12 oz Milk	\$1.25

◀ Apr 2018 Menus ▶

Elementary

 [Elementary Breakfast](#)

 [Elementary Lunch](#)

Middle School

 [Middle School Breakfast](#)

 [Middle School Lunch](#)

High School

 [ASE Lunch](#)

 [BHSS & BHSN Lunch](#)

 [High School Breakfast](#)

Parent Newsletter

[SuperKids Nutrition Newsletter](#)

[SuperKids Nutrition Tips](#)

Harvest of the Month

[April - English](#)

[April - Spanish](#)

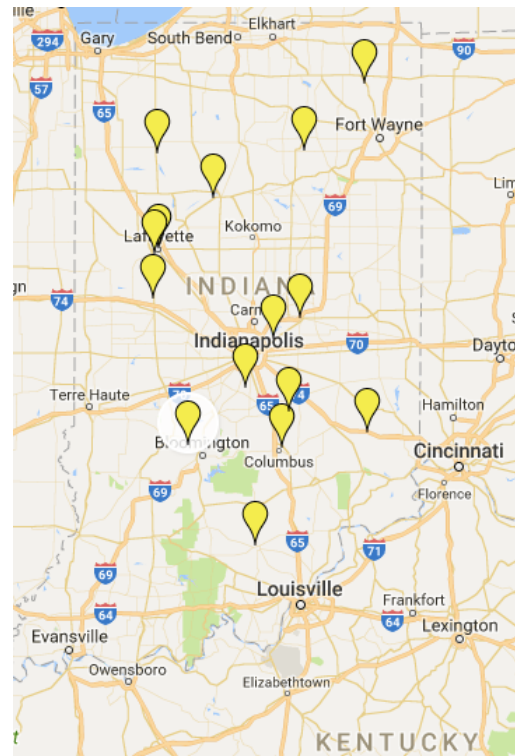


Food Utility and Food Stability

Indiana school districts engaging and/or interested in farm to school

School Districts

- MSD Lawrence Township
- North Montgomery
- Salem Community Schools
- Center Grove Community Schools
- Bartholomew Consolidated School Corp...
- Richland-Bean Blossom
- Lafayette School Corporation
- Tippecanoe School Corporation
- East Noble School Corporation
- Logansport Community School Corporat...
- Batesville School District
- South Madison Community School Corp...
- Manchester Community Schools
- Southwestern Elementary School
- West Central Schools



name

Richland-Bean Blossom

School District

Richland-Bean Blossom

Food Service Director

Vickie Coffey

Contact Information

vcoffey@rbbcsc.k12.in.us

Details from Google Maps

600 Edgewood Dr, Ellettsville, IN 47429

[View in Google Maps](#)

Richland-Bean Blossom school system serves nearly 3000 students in northwestern Monroe County, Indiana



Food Utility and Food Stability

Indiana- Ag Census

Table 1. County Summary Highlights: 2007

[For meaning of abbreviations and symbols, see introductory text.]

Item	Indiana
Farmsnumber	60,938
Land in farmsacres	14,773,184
Average size of farmacres	242
Median size of farmacres	54
Estimated market value of land and buildings:	
Average per farmdollars	868,699
Average per acredollars	3,583
Estimated market value of all machinery and equipment:	
Average per farmdollars	103,427
Farms by size:	
1 to 9 acresfarms	9,720
10 to 49 acresfarms	19,533
50 to 179 acresfarms	15,993
180 to 499 acresfarms	8,012
500 to 999 acresfarms	3,774
1,000 acres or morefarms	3,906
Total croplandfarms	51,283
Harvested croplandacres	12,716,037
Harvested croplandfarms	41,743
Harvested croplandacres	12,108,940
Irrigated landfarms	2,391
Irrigated landacres	397,113
Market value of agricultural products sold (see text)\$1,000	8,271,291
Average per farmdollars	135,733
Crops, including nursery and greenhouse crops\$1,000	5,319,019
Livestock, poultry, and their products\$1,000	2,952,272
Farms by value of sales:	
Less than \$2,500farms	22,470
\$2,500 to \$4,999farms	4,971
\$5,000 to \$9,999farms	5,686
\$10,000 to \$24,999farms	6,325
\$25,000 to \$49,999farms	4,531
\$50,000 to \$99,999farms	4,273
\$100,000 or morefarms	12,682
Government paymentsfarms	35,864
Government payments\$1,000	260,809
Total income from farm-related sources, gross before taxes and expenses (see text)farms	21,501
Total income from farm-related sources, gross before taxes and expenses (see text)\$1,000	247,380
Total farm production expenses\$1,000	6,280,596
Average per farmdollars	103,065
Net cash farm income of operation (see text)farms	60,938
Net cash farm income of operation (see text)\$1,000	2,498,884
Average per farmdollars	41,007
Principal operator by primary occupation:	
Farmingnumber	25,510
Othernumber	35,428
Principal operator by days worked off farm:	
Anynumber	40,777
200 days or morenumber	27,231

Table 1. County Summary Highlights: 2012

[For meaning of abbreviations and symbols, see introductory text.]

Item	Indiana
Farmsnumber	58,695
Land in farmsacres	14,720,396
Average size of farmacres	251
Median size of farmacres	57
Estimated market value of land and buildings:	
Average per farmdollars	1,342,826
Average per acredollars	5,354
Estimated market value of all machinery and equipment:	
Average per farm\$1,000	8,407,178
Average per farmdollars	143,252
Farms by size:	
1 to 9 acresfarms	6,607
10 to 49 acresfarms	20,770
50 to 179 acresfarms	16,396
180 to 499 acresfarms	7,420
500 to 999 acresfarms	3,562
1,000 acres or morefarms	3,940
Total croplandfarms	48,851
Harvested croplandacres	12,590,633
Harvested croplandfarms	41,965
Harvested croplandacres	12,146,538
Irrigated landfarms	2,598
Irrigated landacres	437,445
Market value of agricultural products sold (see text)\$1,000	11,210,818
Average per farmdollars	191,001
Crops, including nursery and greenhouse crops\$1,000	7,530,097
Livestock, poultry, and their products\$1,000	3,680,721
Farms by value of sales:	
Less than \$2,500farms	20,283
\$2,500 to \$4,999farms	4,859
\$5,000 to \$9,999farms	5,204
\$10,000 to \$24,999farms	5,681
\$25,000 to \$49,999farms	4,101
\$50,000 to \$99,999farms	4,254
\$100,000 or morefarms	14,313
Government paymentsfarms	32,083
Government payments\$1,000	267,287
Total income from farm-related sources, gross before taxes and expenses (see text)farms	25,319
Total income from farm-related sources, gross before taxes and expenses (see text)\$1,000	741,644
Total farm production expenses\$1,000	9,117,075
Average per farmdollars	155,330
Net cash farm income of operation (see text)farms	58,695
Net cash farm income of operation (see text)\$1,000	3,102,675
Average per farmdollars	52,861
Principal operator by primary occupation:	
Farmingnumber	25,630
Othernumber	33,065
Principal operator by days worked off farm:	
Anynumber	37,831
200 days or morenumber	26,731

Indiana has seen a decrease in:

- The number of farms
- Total cropland
- Government payments
- Total income from farm related sources

Indiana has seen an increase in:

- Medium and large size farms
- The estimated market value of land and buildings per farm
- Total farm production expenses



Food Utility and Food Stability

Monroe County Ag Census

Table 1. County Summary Highlights: 2007 - Table 1. County Summary Highlights: 2012 (con

[For meaning of abbreviations and symbols, see introductory text]

Item	Monroe	Item	Monroe
Farmsnumber	481	Farmsnumber	462
Land in farmsacres	53,538	Land in farmsacres	52,782
Average size of farmacres	111	Average size of farmacres	114
Median size of farmacres	50	Median size of farmacres	54
Estimated market value of land and buildings:		Estimated market value of land and buildings:	
Average per farmdollars	405,291	Average per farmdollars	551,762
Average per acredollars	3,641	Average per acredollars	4,831
Estimated market value of all machinery and equipment:		Estimated market value of all machinery and equipment:	
Average per farmdollars	56,066	Average per farmdollars	25,546
Farms by size:		Farms by size:	
1 to 9 acres87		1 to 9 acres61	
10 to 49 acres149		10 to 49 acres162	
50 to 179 acres162		50 to 179 acres168	
180 to 499 acres65		180 to 499 acres54	
500 to 999 acres14		500 to 999 acres11	
1,000 acres or more4		1,000 acres or more6	
Total croplandfarms	343	Total croplandfarms	346
Harvested croplandacres	27,096	Harvested croplandacres	27,593
Irrigated landfarms	285	Irrigated landfarms	312
Market value of agricultural products sold (see text)\$1,000	11,970	Market value of agricultural products sold (see text)\$1,000	12,998
Average per farmdollars	24,886	Average per farmdollars	28,133
Crops, including nursery and greenhouse crops\$1,000	9,514	Crops, including nursery and greenhouse crops\$1,000	8,672
Livestock, poultry, and their products\$1,000	2,456	Livestock, poultry, and their products\$1,000	4,326
Farms by value of sales:		Farms by value of sales:	
Less than \$2,500228		Less than \$2,500207	
\$2,500 to \$4,99963		\$2,500 to \$4,99966	
\$5,000 to \$9,99951		\$5,000 to \$9,99958	
\$10,000 to \$24,99970		\$10,000 to \$24,99961	
\$25,000 to \$49,99933		\$25,000 to \$49,99926	
\$50,000 to \$99,99913		\$50,000 to \$99,99918	
\$100,000 or more23		\$100,000 or more26	
Government paymentsfarms	148	Government paymentsfarms	134
Total income from farm-related sources, gross before taxes and expenses (see text)\$1,000	555	Total income from farm-related sources, gross before taxes and expenses (see text)\$1,000	754
Net cash farm income of operation (see text)farms	93	Net cash farm income of operation (see text)farms	121
Average per farmdollars	827	Average per farmdollars	2,389
Total farm production expenses\$1,000	10,743	Total farm production expenses\$1,000	15,907
Average per farmdollars	22,335	Average per farmdollars	34,430
Principal operator by primary occupation:		Principal operator by primary occupation:	
Farmingnumber	175	Farmingnumber	174
Othernumber	306	Othernumber	288
Principal operator by days worked off farm:		Principal operator by days worked off farm:	
Anynumber	322	Anynumber	270
200 days or morenumber	220	200 days or morenumber	198

Monroe County has seen a decrease in:

- The number of farms
- Small size farms
- Government payments

Monroe County has seen an increase in:

- The average size of farms
- Farms of 1,000 acres or more
- Total cropland
- Total harvested cropland
- Market value of agricultural products sold
- The estimated market value of land and buildings per farm
- Total farm production expenses



Food Utility and Food Stability

Beginning Farmers and Ranchers At A Glance 2013

- There has been a national decline in beginner farmers and ranchers
 - only 14 percent of principal operators of beginning farms were under 35 years old
- Beginning farms are more likely to be general livestock farms and less likely to specialize in grains and row crops or dairy than established farms
- Off-farm income accounted for 83 percent of farm operator household cash income in 2011
 - Most farm families operating small farms have negative net farm income

Share of beginning farmers has been declining

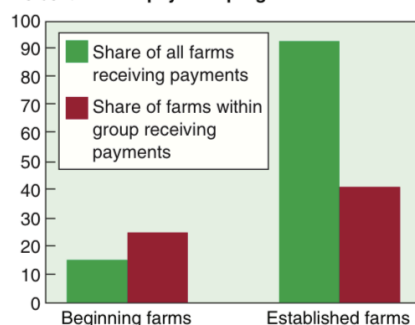
Percent of principal operators



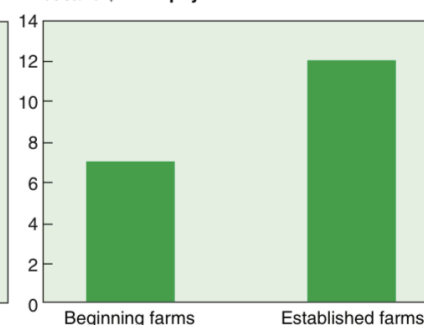
Note: Census data are based on the experience of the principal farm operator only.
Source: USDA, National Agricultural Statistics Service, Census of Agriculture, 1982-2007.

Beginning farms are less likely to participate in Government direct payment programs, and when they do, average payments are less

Participation in direct Government payment programs



Average Government payment to farm



Source: USDA, National Agricultural Statistics Service and Economic Research Service, Agricultural Resource Management Survey, 2011.

Households operating beginning farms have higher average off-farm income and lower average farm income at every farm size

Thousands \$

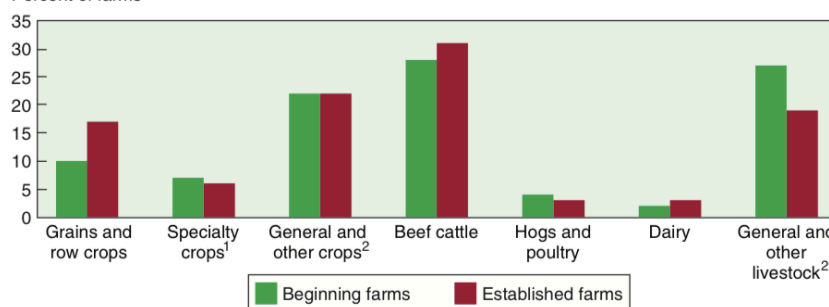


Note: Households of principal operators only.

Source: USDA, National Agricultural Statistics Service and Economic Research Service, Agricultural Resource Management Survey, 2011.

Beginning farms are less likely to specialize in grains and row crops than established farms

Percent of farms



¹Fruits, tree nuts, vegetable, greenhouse, and nursery crops.

²General crop and livestock farms are those where no single commodity accounts for 50 percent of the total value of production.

Source: USDA, National Agricultural Statistics Service and Economic Research Service, Agricultural Resource Management Survey, 2011.



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Community Goals found in Bloomington Documents

Bloomington Comprehensive Plan

- Encourage partnerships with non-profits in Monroe County and adjacent communities to develop solutions to shared problems, provide social services, and leverage State and Federal Resources
- Collaborate with the Monroe County Community School Corporation (MCCSC) and private schools to integrate the use of school services, playing fields and facilities for public benefit, particularly for young people, families, and seniors
- Publicly support the continued high standards of local schools and help schools as feasible to obtain and maintain educational excellence
- Encourage job training programs for local business through Ivy Tech and other educational institutions
- Assess “Bloomington’s Food System: A First Look” and partner with the Bloomington Food Policy Council, other community organizations, residents, businesses, schools, and government agencies to implement the goals of the Bloomington Food Charter
- Enhance education about pollinators as a necessity for growing food, and encourage the use of pollinator- attracting native plants on private property



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Community Goals found in Bloomington Documents

Bloomington Parks and Recreation Master Plan

- The Department shall continue to promote health and wellness through programs in partnership with healthcare providers such as Indiana University Health-Bloomington Hospital and Southern Indiana Physicians
- The Department shall continue its support of programs and events for Bloomington youth and reduce barriers to participation by ensuring financial aid is available so there are not barriers to quality programming for children from resourced challenged families and neighborhoods

Bloomington Food Charter

- Help make farming a viable vocational option by honoring farmers, providing opportunities for agricultural education, and removing barriers to land acquisition by new farmers
- Advocate for the access of all students in grades K-12 to education about the food system
- Foster a cultural environment that empowers residents to become food literate through participation in educational programs about growing and preparing food, nutrition, food safety, food economy, and the operation of the food system



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Community Goals found in Bloomington Documents

Peak Oil Task Force

- Advocate for local food production and increase access to relevant information to support food production and processing
- Organize direct support by the city and other public agencies to address infrastructure needs for water supply, fertility collection and distribution, food processing, storage, and marketing
- Create specific forms of support for new farmers, including training, land access, low-cost start-up loans, and property tax abatements or land rent offsets
- Acquire and make available to local animal farmers at least two mobile abattoirs for safe and economic local processing of poultry and other meat animals
- Create a year-round food market for local produce and supplementary foods in every Natural Neighborhood district
- Establish region wide farm training programs at local institutions and train and deploy 10,000 new farmers in the region
- Design and build five million square feet of greenhouse space for year round growing of integrated aquaponics
- Create a local, publicly controlled seedbank and arboretum of food and useful plant species for propagation and sale within the region



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Metrics Found in Bloomington Documents

Bloomington Comprehensive Plan

- Economic value of local food economy
- Obesity prevalence (estimated obesity rate)
- Demographic makeup of engagement participants
- Opportunity for community involvement (number of civic, social, religious, political, and business organizations per 10,000 people)
- Workforce retention, recruitment, and growth by sector
- Number of training programs matched to community job opportunities
- Percentage of eligible residents, by age, enrolled in training programs
- Employment/unemployment rates by sector

Bloomington Parks Master Plan

- No metrics

Bloomington Food Charter

- No metrics

Peak Oil Task Force

- No Metrics



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Metrics Used in Other Cities

- Body Mass Index (BMI)
- Fruits and vegetable consumption
- Acres of land used for farming
- Citizen survey results
- Number of available development programs



Food Utility and Food Stability

Goals/ Metrics Recommended in STAR

Education, Arts & Community : Community Cohesion- Outcome 1: Community venues

Demonstrate that at least 75% of residents live within 1 mile of a community venue that is open to the public and offers free services and/or events for residents

Metric: percentage of residents that live within 1 mile of a community venue

Health & Safety: Food Access & Nutrition – Outcome 1: Local Fresh Food

Demonstrate an increase over the past 3 years in the amount of fresh food produced through local urban agriculture

Metric: Total acreage of public and private land devoted to urban agriculture, including rooftops.

Health & Safety: Food Access & Nutrition – Outcome 4: School Nutrition

Demonstrate an increase over the past 3 years in the food service sales of fresh fruits and vegetables in the largest public school district

Metric: increase in the quantity of fresh fruits and vegetables purchased annually for sale in public schools.



Food Utility and Food Stability

Actions Used in Other Cities

- Creation of “What’s Possible? Campaign, allowing the city of Indianapolis to gather community feedback on what they desire to see in their schools-**Indianapolis, IN**
- Windy City Harvest Apprenticeship at Chicago’s Botanic Garden, a nine month program with classroom and hands-on certificate course in sustainable urban agriculture that is accredited by the Illinois Community College Board - **Chicago, Illinois**
- Meatless Mondays, a global movement that enables people to make positive changes in their diet by not eating meat one day a week. Movement has spread to U.S K-12 school cafeterias by schools highlighting meatless items and dishes available- **Bellevue Union School District-CA, Public School 41-NYC, Fairfield School District -CT**



Food Utility and Food Stability

Actions Recommended in STAR

Education, Arts & Community : Community Cohesion

- Adopt neighborhood plans that guide future development, recommend strategies to create or preserve community venues, and address neighborhood-specific issues
- Partner with neighborhood associations, community organizations, and local service providers to identify and address neighborhood-specific needs
- Establish a department with staff assigned to work as liaisons with specific neighborhoods
- Provide capacity-building programs to enable community leaders and groups to self-organize, resolve issues, and cultivate leadership

Health & Safety: Food Access & Nutrition

- Demonstrate that the local public school district has adopted a model school wellness policy
- Establish a local or regional food policy council that includes health professionals, community organizations, schools, farmers, and/or related businesses
- Develop public outreach materials, classes, or workshops for residents to learn about food, nutrition, and gardening OR develop public outreach materials to promote food assistance programs
- Demonstrate that local schools or the public school district has received certification from the USDA HealthierUS Schools Challenge or an award from the Alliance for a Healthier Generation in the past 3 years



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Thank You

Questions and Answers