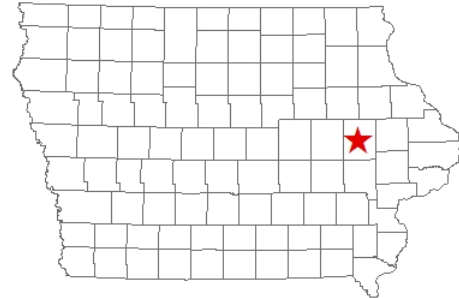


# Retail Trade Analysis Report

## Fiscal Year 2016

Linn County



Iowa State University  
Department of Economics

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### Overview

This report examines local retail sales and related economic trends in Linn County, Iowa, using a variety of comparative performance measures.

The retail analysis is based on state-reported sales of goods and services that are subject to Iowa's statewide sales tax. Please refer to the Data Notes section for detailed information about the types of retail activity included in taxable sales. The data notes also include definitions and guidelines for interpreting retail measures and other indicators in this report.

Except where otherwise noted, retail sales data for preceding years have been adjusted for inflation and are stated in Fiscal Year 2016 dollar equivalents. The 2016 fiscal year began on July 1, 2015, and ended on June 30, 2016.

### About Linn County:

- Linn County recorded a total population of 211,226 residents in the 2010 Census, including 5,166 residents in group quarters such as skilled nursing facilities and group homes.
- Linn County is part of the Cedar Rapids, IA Metropolitan Statistical Area.

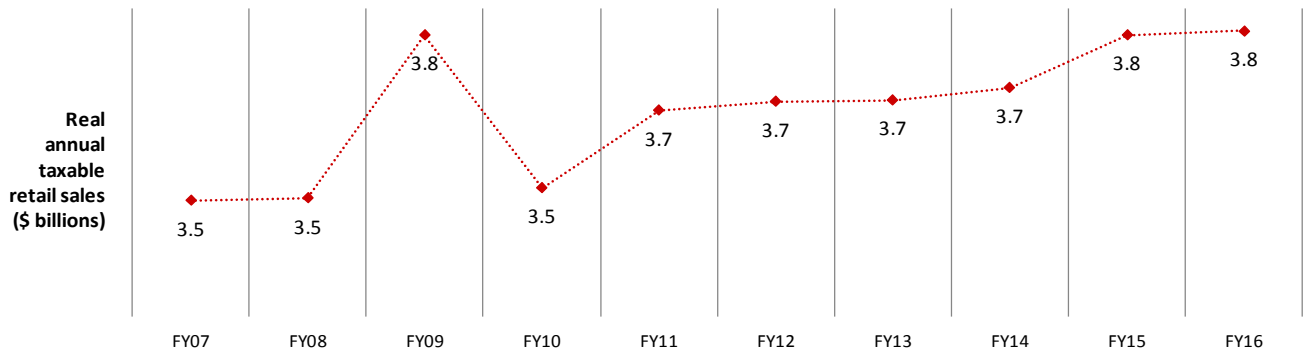
### Key Retail Indicators for Linn County

Linn	FY2015	FY2016	% Change
Real total taxable sales (\$)	3,839,049,393	3,849,231,271	0.3% ▲
Number of reporting firms (annualized)	5,189	5,224	0.7% ▲
Population	218,694	220,727	0.9% ▲
Average sales per capita (\$)	17,554	17,439	-0.7% ▼
Average sales per firm (\$)	739,844	736,871	-0.4% ▼

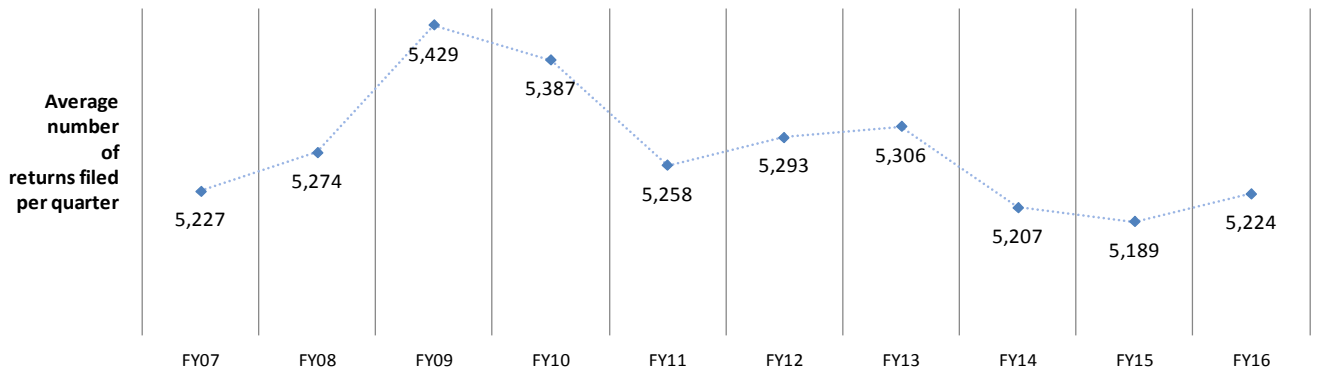
*No distinctions are made between households and group quarters residents in the calculation of per capita sales and related indicators.*

# 10-Year Summary Retail Sales Tax Statistics

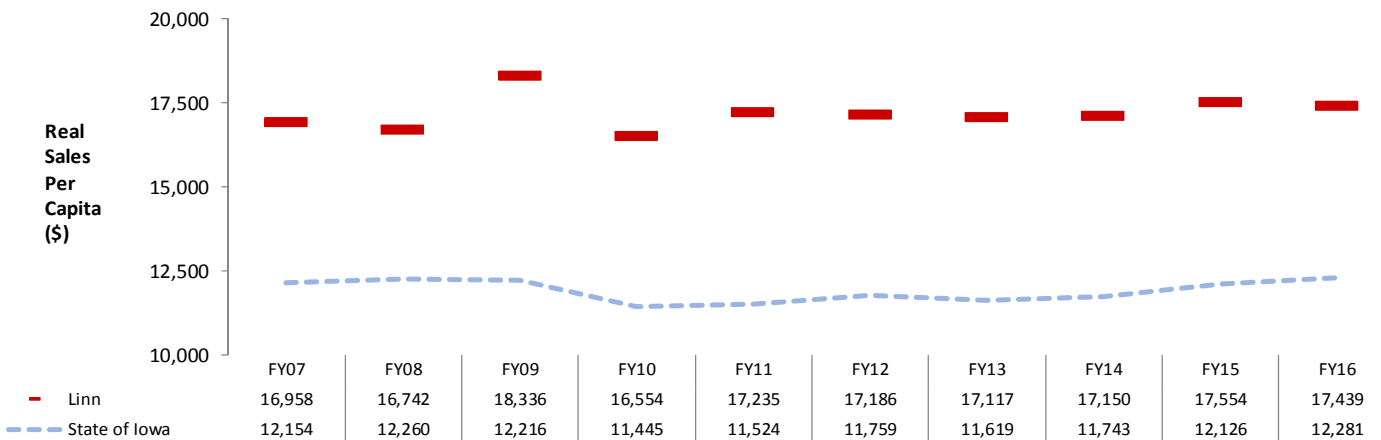
## Real Total Taxable Sales in Linn County



## Annualized Number of Reporting Firms in Linn County



## Taxable Retail Sales Per Capita



## Population

Population change is a key factor influencing local retail sales performance. From one year to the next, area population gains or losses alter the number of potential shoppers in the region. In the longer term, population trends reflect the general economic climate of the region. Population growth suggests a more favorable retail environment, while population decline may be an indication of area economic stress.

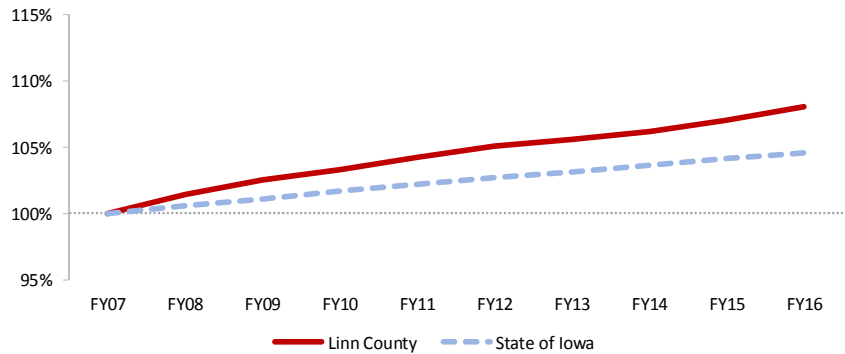
The top chart at right shows annual population estimates for Linn County and the state indexed to baseline values from ten years ago. The population in any given year is expressed in percentage terms compared to the base year population.

The middle chart at right compares population change in Linn County to the trend for similarly-sized counties in Iowa. See Pages 20-21 for a list of counties included in the peer group for Linn County.

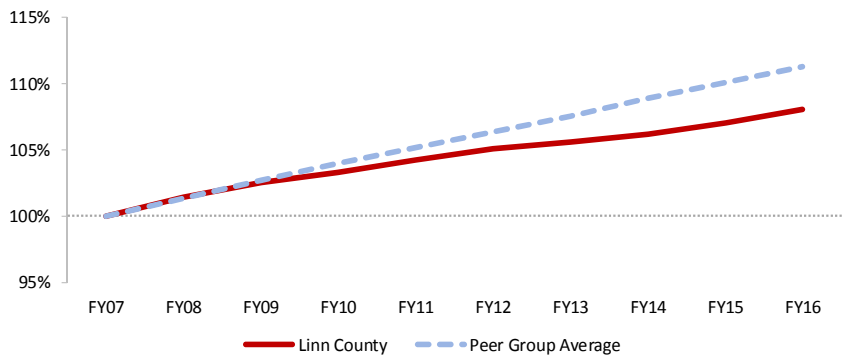
## Average Wages

The local demand for retail goods and services also depends on the income level of area residents. Major sources of personal income include wages and salaries, returns to proprietors, investment income, and government transfer payments. Wages and salaries comprise the majority of personal income and provide the most stable indicator of local conditions. The chart at right illustrates recent, inflation-adjusted average earnings per wage and salary job in Linn County and the state.

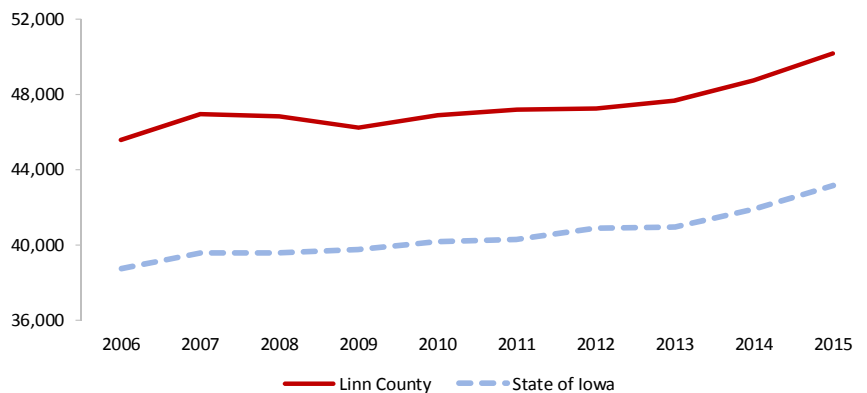
**Population Trends**  
(Annual estimates as a percentage of 2007 population)



**Population Trend for Peer Counties**  
(Annual estimates as a percentage of 2007 population)



**Real Wages and Salaries Per Job (\$)**



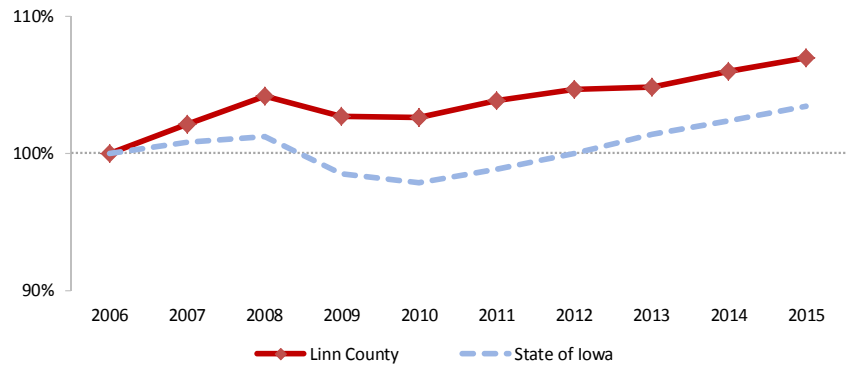
## Employment

Area job growth creates earnings opportunities for current residents and also helps to attract new residents to the region. Conversely, lagging employment growth rates may indicate a decline in the region's competitive strength.

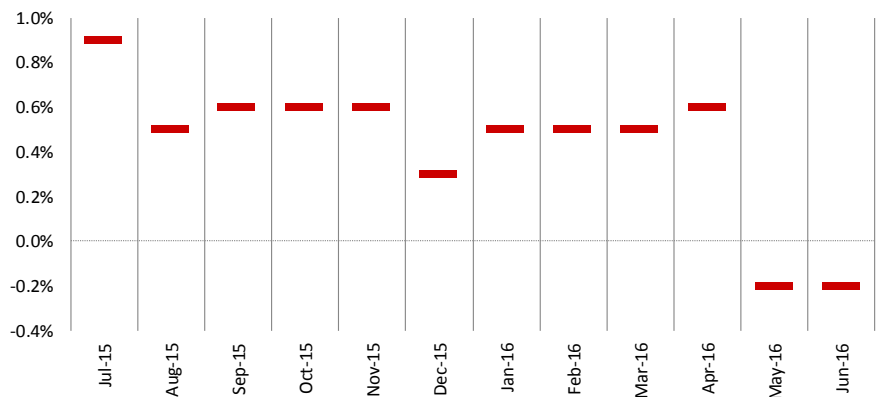
The chart at top right shows the 10-year trend in wage and salary employment in Linn County. Each year's employment, which counts full-time and part-time jobs equally, is expressed as a percentage of baseline year employment. The statewide trend is included for comparison.

The middle chart shows more recent job gains and losses in Linn County. The chart illustrates the percentage gain or loss in jobs during Fiscal Year 2016 on a month-by-month basis, with each month's employment compared to the same month in the prior fiscal year.

**Employment Trends**  
(Annual employment as a percentage of 2006 employment)



**Recent Job Gains or Losses: Linn County**

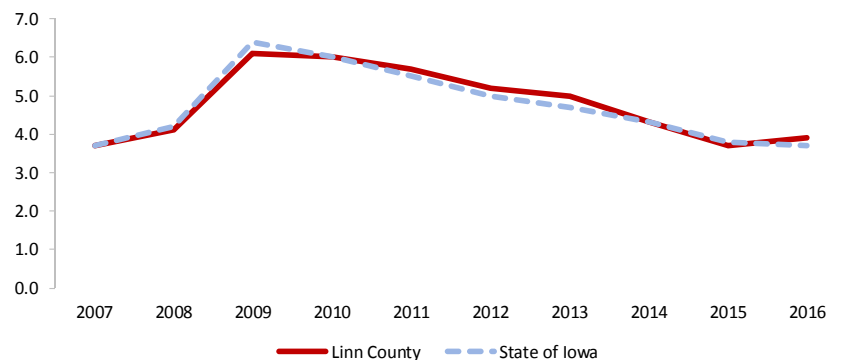


## Unemployment

Rising or persistently high levels of unemployment may contribute to household economic stress within the region and may ultimately reduce aggregate household spending levels.

The chart at right shows recent Linn County and statewide unemployment rate trends. The unemployment rate is defined as the percentage of the labor force that is unemployed but actively seeking work.

**Unemployment Rate**  
(Unemployed percentage of the labor force)



# Peer Group Analysis

Iowa's 99 counties vary in the level and types of retail activity they can support. A given county's retail prospects depend not only on its own population size, but also on the urbanization patterns and competitive characteristics of the surrounding area. With no two of Iowa's counties exactly alike in these respects, how might a particular county benchmark its own retail performance? Peer group analysis, which involves comparisons among a group of counties sharing similar characteristics, can provide a reasonable basis for evaluating local retail performance.

In general, a county's retail sector size and diversity tend to increase with the size and density of its population. Metropolitan counties, for example, have access to a large pool of potential customers living within a geographically concentrated area, allowing them to offer a wider range of retail goods and services than most smaller counties can support. The diversity of their retail offerings tends to attract non-resident shoppers from a broad geographic area, often at the expense of smaller counties in outlying areas. In contrast, small counties in rural areas tend to have retail sectors that serve primarily local markets.

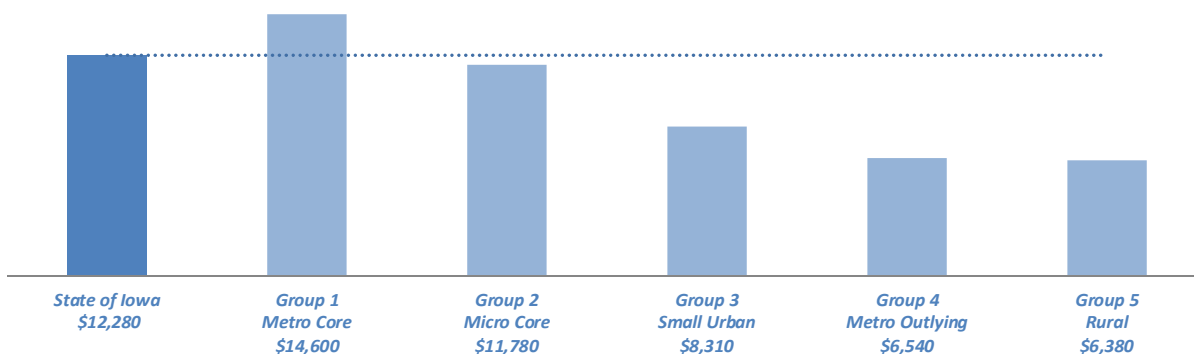
This retail analysis report assigns all counties in Iowa to peer groups based on their metropolitan or micropolitan status and other population characteristics. Metropolitan statistical areas (MSAs) are defined around a core city or cities that have 50,000 or more residents. Iowa has nine MSAs defined around ten core cities. These MSAs contain 21 of the state's 99 counties. Micropolitan statistical areas represent the next level down in the urban hierarchy. Micropolitan areas are defined around core cities with 10,000 to 49,999 residents. Iowa has 17 micropolitan statistical areas.

The county peer groups are defined in the following table, with the relevant peer group for Linn County highlighted in blue (see Pages 20-21 for a complete list of member counties by peer group). The chart at the bottom of this page illustrates the comparative sales performance for all of the county peer groups during Fiscal Year 2016.

## Peer Group Definitions

Peer Group	Metropolitan or Micropolitan Status	Number of Counties	% of State Taxable Sales
<b>Group 1</b>	<b>Core county of a metropolitan statistical area</b>	<b>10</b>	<b>64.7%</b>
Group 2	Core county of a micropolitan statistical area	17	14.5%
Group 3	Non-metro county whose largest city is between 2,500 to 9,999 in population	41	13.9%
Group 4	Outlying (non-core) county in a metropolitan statistical area	11	4.1%
Group 5	Non-metro county whose largest city is less than 2,500 in population	20	2.8%

## Average Sales Per Capita by County Peer Group, FY 2016



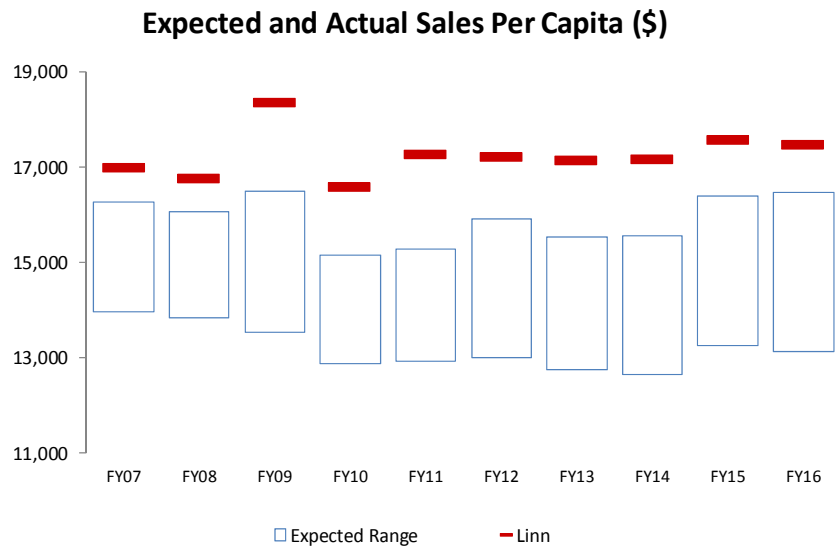
## Expected Range for Local Sales Per Capita

The chart at right compares sales levels in Linn County to a range of “expected,” or typical, values for counties in its peer group.

The blue rectangles illustrate the range of expected values, defined as any value between the 25th to the 75th percentile values for the peer group in each year.

The red dashes show the actual per capita sales performance by Linn County.

In Fiscal Year 2016, per capita sales in Linn were above the expected range, ranking within the top quartile of the peer group.

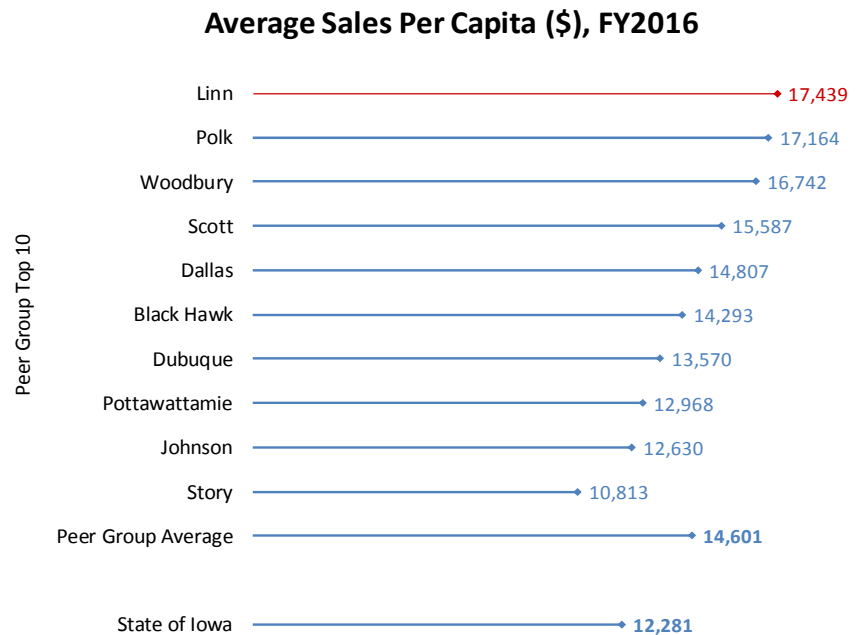


## Top 10 Peer Group Counties

Among the 10 counties in its peer group, Linn ranked number 1 in per capita sales.

The peer group’s top performers, measured by their average sales per capita in Fiscal Year 2016, are listed in the table at right.

Also included for comparison are the average value for all counties in the peer group and the overall statewide average per capita sales.



See Pages 20-21 for a complete listing of counties by peer group.

# Pull Factor Analysis

This section introduces three related measures for assessing retail sales performance: trade surplus or leakage, trade area capture, and the pull factor ratio. All three measures are based on a hypothetical “self-sufficiency” level of sales at which the county’s retail sector satisfies all of the retail needs of its own residents. This hypothetical sales value might also be viewed as “break-even” level where any sales lost from non-local spending by residents are exactly offset by sales to non-residents.

## Trade Surplus or Leakage

Trade surplus or leakage measures the dollar difference between the county’s actual sales and the total sales it could generate if residents satisfied all their retail needs locally, i.e. its self-sufficiency or breakeven sales level. Sales above the breakeven level imply a net surplus arising from sales to non-residents. Leakage, or sales below the breakeven level, suggests that local residents’ spending outside the county exceeds local firms’ sales to non-residents.

Below are trade surplus or leakage estimates for Linn County. To estimate the breakeven level of sales, the dollar amount of statewide average per capita spending on taxable goods and services is adjusted up or down by a factor that reflects local income characteristics, and is then multiplied by the county’s population size. The breakeven sales target represents an estimate of Linn County residents’ total spending on taxable goods and services that are purchased anywhere within Iowa.

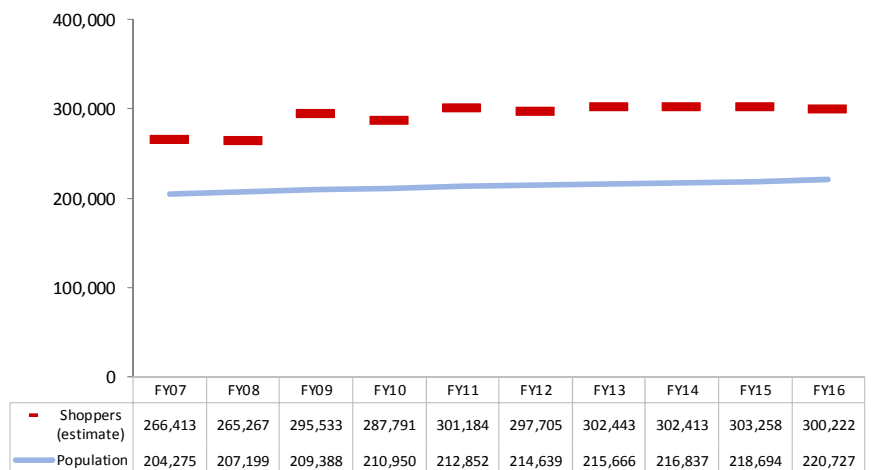
Linn Breakeven Analysis	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16
Statewide average per capita spending (\$)	12,154	12,260	12,216	11,445	11,524	11,759	11,619	11,743	12,126	12,281
<i>x Local income adjustment</i>	1.07	1.07	1.06	1.06	1.06	1.05	1.05	1.05	1.04	1.04
= Average spending (anywhere) by residents (\$)	13,003	13,077	12,991	12,134	12,180	12,391	12,206	12,297	12,659	12,821
<i>x County population estimate</i>	204,275	207,199	209,388	210,950	212,852	214,639	215,666	216,837	218,694	220,727
= Breakeven sales target (\$000s)	2,656,170	2,709,585	2,720,145	2,559,661	2,592,627	2,659,541	2,632,349	2,666,453	2,768,522	2,830,001
County actual sales (\$000s)	3,464,142	3,468,948	3,839,246	3,492,049	3,668,553	3,688,790	3,691,526	3,718,785	3,839,049	3,849,231
Surplus estimate (\$000s)	807,972	759,363	1,119,101	932,389	1,075,925	1,029,249	1,059,178	1,052,331	1,070,527	1,019,230
Leakage estimate (\$000s)	-	-	-	-	-	-	-	-	-	-

## Trade Area Capture

The extent of a county’s geographic “trade area” can be approximated by estimating the number of customers whose annual retail needs it satisfies. If that number exceeds the resident population, the county’s trade area likely extends beyond its borders. If below, the county’s trade area likely overlaps or is subsumed by that of a nearby county.

Trade area capture is estimated by dividing the county’s actual total sales by the expected average, annual retail requirements of its residents. The chart at right illustrates the county’s trade area capture in relation to its population size.

**Estimated Trade Area Capture**  
(annualized number of shoppers)



## The Pull Factor Ratio

A county's pull factor ratio is calculated by dividing its trade area capture measure by its resident population.

A pull factor ratio equal to 1.0 suggests that the county's merchants are just satisfying the retail demands of local residents. This is equivalent to the "break even" sales level where the county is experiencing neither a surplus or leakage of sales.

A pull factor ratio greater than 1.0 suggests that the county's merchants are attracting shoppers from outside the county. For example, a county whose retail customer base is 25 percent larger than its population would have a pull factor of 1.25.

A pull factor ratio less than 1.0 indicates that the county's retail sector cannot satisfy all of the retail needs of its own residents.

Pull factor ratios may vary widely from one county to the next, even among those in the same peer group. For any particular county, a comparison with the peer group's median pull factor value provides a reasonable performance benchmark.

The chart below shows recent trends in pull factor ratios for Linn County and its peer group. The county's pull factor values are indicated with red circles.

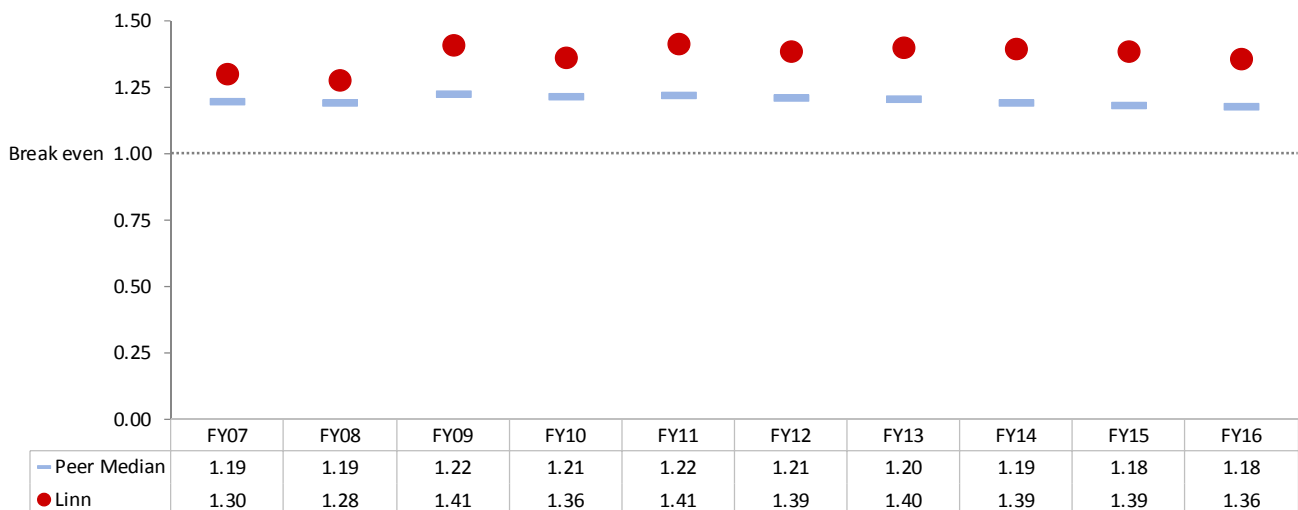
The blue dashes indicate the median pull factor for the peer group in each year. If the county's pull factor exceeds the group median, it ranks among the top half of its peer group. If its pull factor is below the median value, then it ranks among the bottom half of counties in its peer group.

Caution is urged in the interpretation of pull factors, especially for smaller counties.

For example, a high pull factor doesn't necessarily indicate retail self-sufficiency across all categories of retail sales. A county's pull factor could be inflated by the presence of one or more retail establishments that serve as a regional draw in a particular sales category, even if the county is experiencing substantial leakage of sales in other retail categories.

Similarly, a low pull factor does not necessarily suggest untapped sales potential in the local retail sector. Most small counties should expect to lose a at least a fraction of their residents' spending to nearby metropolitan and other large trade center counties.

**Pull Factor Comparison With Peer Group**





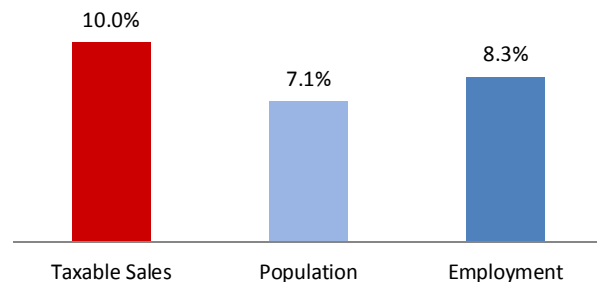
# Regional Competition

Counties within a region compete with each other for shares of overall regional economic activity. This section explores some of the competitive forces at work in Linn County and surrounding counties. First illustrated is the county's relative importance as a trade center within the state. Next, the distribution of trade among cities within Linn County is assessed. On the following page, important interactions with surrounding cities and counties are examined using data on worker commuting flows. Finally, retail trade patterns in the broader region are illustrated by comparing average per capita sales and pull factor ratios for nearby counties.

## Role Within the State

The relative contributions of Linn County as a trade, population, and employment center within the state of Iowa are illustrated at right. The left-most bar shows the percentage of statewide taxable sales occurring within Linn County. The middle bar displays the county's percentage share of Iowa's population. The right-most bar shows the percentage of the state's jobs that are located within Linn County.

Linn County Percentage Shares of Statewide Totals



## Other Trade and Population Centers Within the County

The table at right lists cities within Linn County that reported taxable sales during Fiscal Year 2016. Data for cities with 10 or fewer permit holders filing sales tax returns are suppressed. Sales amounts for those smaller jurisdictions are included within the "other areas in county" values.

Amounts shown for each city reflect the population and reported sales for the city as a whole, regardless of whether it crosses into a neighboring county. Any cities with reporting firms that fall within a neighboring county are indicated with an asterisk (\*), and the neighboring county's portion of sales, if any, are noted below the table.

Linn County Jurisdictions Reporting Taxable Retail Sales in FY 2016

Area Name	Population	Average # Filers	Sales \$millions
<b>Linn Total</b>	<b>220,727</b>	<b>5,224</b>	<b>3,849.2</b>
Alburnett	696	26	3.0
Cedar Rapids	130,359	3,411	3,190.6
Center Point	2,533	87	19.2
Central City	1,280	67	6.7
Coggon	655	28	4.0
Ely	2,086	58	7.0
Fairfax	2,546	66	13.4
Hiawatha	7,235	230	124.0
Lisbon	2,199	77	13.0
Marion	37,578	765	364.4
Mount Vernon	4,509	168	33.8
Palo	1,074	43	35.7
Robins	3,505	41	7.5
Springville	1,138	47	9.4
Walford*	1,457	33	4.3
Walker	794	29	7.4
Other areas in Linn County		69	6.8
*Neighboring county portions		(21)	(0.9)

## Commuting Patterns

Regional commuting flows represent possible sources of sales surplus or leakage for the local retail sector. Worker inflows from neighboring counties help to expand the potential customer base. When residents commute elsewhere for work, the likelihood that they will shop locally, especially during traditional business hours, decreases.

The county's overall rate of out-commuting is compared to the average for similar counties below. The rates express the percentage of working residents who commute somewhere outside the county for work.

### Worker Out-Commuting Rates

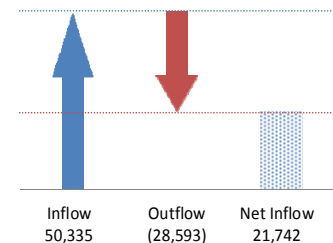
Linn County	25.8%
Peer Counties	32.8%

## Linn County Commuting Summary, 2014

Residence	Workplace		Local = Jobholders
	Linn	+ Elsewhere	
Linn	82,286	28,593	110,879
+ Elsewhere	50,335		
= Local Jobs	132,621		

The table above describes local employment, workforce size, and area employment flows by residence and workplace locations for wage and salary workers in the region.

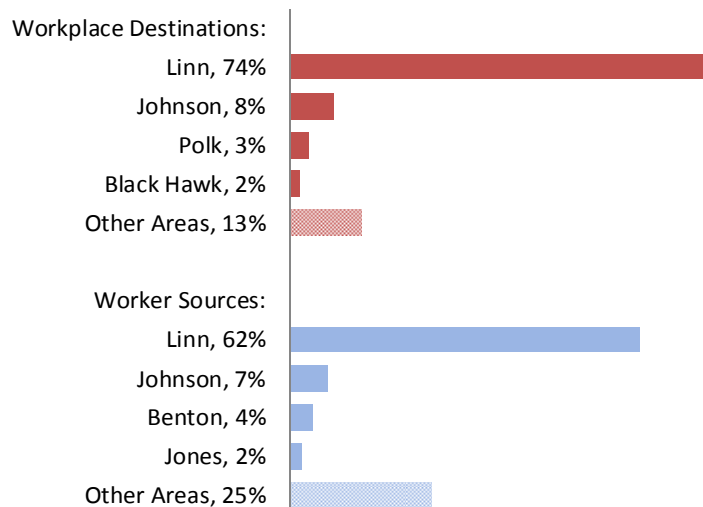
The figure at right compares the relative magnitude of worker flows to and from Linn County and its estimated net commuting flow in 2014.



## Key Commuting Relationships for Linn County: Top 3 Sources and Destinations of Workers

Worker commuting patterns also reveal broader regional relationships that influence local economic conditions.

The chart at right identifies the top three workplace destinations for Linn County residents and the top three counties supplying the greatest number of Linn County workers in 2014. The chart measures these flows as percentages of the county's total workforce size and total employment, respectively.



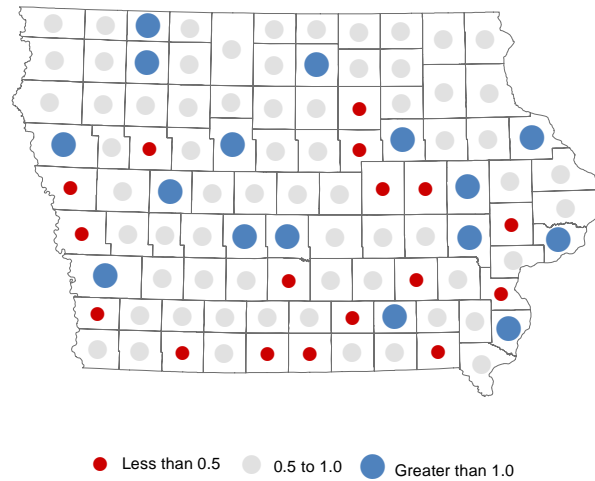
Note: The commuting charts on this page are based on 2014 worker commuting flow data published by the U.S. Census Bureau. In cases of small place-to-place commuting flows, the Census Bureau masks the data in order to protect the confidentiality of individual workers and/or business firms. Therefore, the actual size and destinations of the county's commuting flows may differ slightly from those shown here.

## Regional Trade Patterns

Regional shopping patterns may be inferred from relative trade levels in surrounding counties. The graphics on this page illustrate which counties in the region serve as regional magnets for retail trade activity.

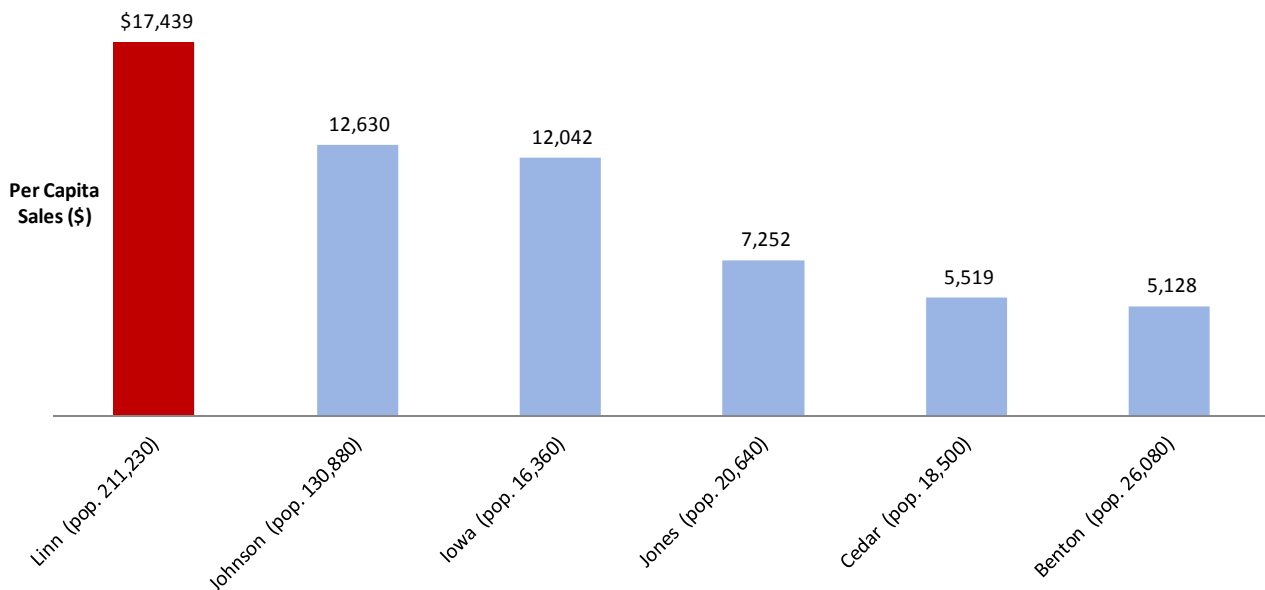
The map at right illustrates county retail pull factors for Fiscal Year 2016 (see Page 8 for a definition of pull factors). The counties with a pull factor exceeding 1.0, identified in the map with large blue dots, are likely exerting a strong retail influence on trade centers in neighboring counties. Counties with pull factors below 1.0 are leaking sales on a county-wide basis, but might still contain one or more strong local trade centers.

### County Pull Factors, Fiscal Year 2016



The bar graph below compares Fiscal Year 2016 per capita sales in Linn County to average sales in neighboring counties. The comparison group includes the five counties nearest to Linn County, with distance measured “as the crow flies” between county midpoints. The counties are listed from left to right in descending order by their average per capita sales. Population sizes for each county, as of the 2010 Census, are also indicated.

### Neighboring County Comparison of Per Capita Retail Sales



# Historical Trends in Taxable Sales

Historical retail sales statistics for Linn County and the State of Iowa are presented below. Real total taxable sales and real average sales per firm and per capita have been adjusted for inflation and are shown in Fiscal Year 2016-equivalent dollars.

\*\*NOTE: Values for Fiscal Year 2009 and later measure retail activity during a July 1-June 30 fiscal year period. Values for Fiscal Years 2008 and earlier were compiled on an April 1-March 31 fiscal year basis.

## Historical Statistics for Linn:

Fiscal Year	Reporting Firms	Total Taxable Sales (\$)		Real Average Sales (\$)		Statewide Real Average (\$)	
		Nominal	Real	Per Firm	Per Capita	Per Firm	Per Capita
1976	3,430	588,899,411	2,077,833,162	605,738	12,390	369,909	10,500
1977	3,544	656,240,488	2,189,222,366	617,770	13,053	381,378	11,119
1978	3,740	728,817,403	2,279,316,992	609,443	13,621	375,750	11,365
1979	3,881	826,830,935	2,399,658,429	618,349	14,311	381,083	11,873
1980	4,047	946,042,897	2,490,588,410	615,492	14,757	373,810	11,841
1981	4,222	943,120,857	2,254,556,980	534,002	13,325	332,662	10,752
1982	4,258	965,138,280	2,158,210,708	506,830	12,854	319,872	10,348
1983	4,370	997,094,029	2,126,053,246	486,483	12,790	310,945	10,228
1984	4,534	1,062,946,874	2,178,019,023	480,348	13,174	304,559	10,143
1985	4,626	1,137,896,194	2,251,960,762	486,805	13,645	301,174	10,119
1986	4,713	1,177,697,023	2,261,601,670	479,915	13,748	295,243	10,104
1987	4,700	1,252,167,367	2,353,064,901	500,652	14,326	312,211	10,539
1988	4,683	1,318,651,967	2,389,384,575	510,280	14,467	313,731	10,598
1989	4,727	1,418,936,807	2,463,061,385	521,090	14,763	318,893	10,693
1990	4,797	1,510,739,662	2,522,461,181	525,841	14,970	322,994	10,799
1991	4,837	1,595,334,597	2,554,731,646	528,164	15,001	324,455	10,738
1992	4,880	1,658,848,818	2,587,018,216	530,100	14,971	324,921	10,832
1993	5,038	1,766,900,484	2,684,644,047	532,879	15,294	325,220	10,967
1994	5,174	1,928,496,138	2,867,661,066	554,271	16,117	332,114	11,204
1995	5,215	2,078,460,698	3,024,017,516	579,869	16,756	339,024	11,430
1996	5,214	2,213,181,251	3,157,764,243	605,603	17,301	339,983	11,685
1997	5,231	2,239,273,073	3,128,704,365	598,108	16,975	357,412	11,877
1998	5,275	2,422,904,500	3,348,128,559	634,686	17,969	359,783	12,084
1999	5,164	2,548,435,843	3,487,902,136	675,492	18,496	385,030	12,590
2000	5,081	2,619,355,256	3,510,712,274	690,949	18,366	392,384	12,648
2001	5,221	2,787,699,405	3,647,901,141	698,731	18,866	393,246	12,685
2002	5,085	2,721,092,559	3,517,004,162	691,711	18,020	394,632	12,535
2003	4,784	2,751,305,193	3,489,089,032	729,401	17,760	412,176	12,390
2004	4,757	2,832,703,823	3,521,237,835	740,261	17,818	419,433	12,271
2005	4,816	2,872,536,488	3,479,128,956	722,486	17,452	417,764	12,200
2006	4,806	2,925,785,751	3,437,145,431	715,178	17,053	428,763	12,290
2007	5,227	3,015,781,128	3,464,141,942	662,772	16,958	420,788	12,154
2008	5,274	3,112,522,080	3,468,948,420	657,745	16,742	421,423	12,260
2009**	5,429	3,486,814,554	3,839,245,798	707,141	18,336	413,200	12,216
2010	5,387	3,204,096,833	3,492,049,110	648,266	16,554	396,892	11,445
2011	5,258	3,425,263,882	3,668,552,749	697,676	17,235	411,718	11,524
2012	5,293	3,528,183,182	3,688,789,803	696,951	17,186	419,954	11,759
2013	5,306	3,584,912,520	3,691,526,270	695,760	17,117	414,539	11,619
2014	5,207	3,662,186,316	3,718,784,747	714,224	17,150	431,060	11,743
2015	5,189	3,814,017,196	3,839,049,393	739,844	17,554	448,317	12,126
2016	5,224	3,849,231,271	3,849,231,271	736,871	17,439	454,924	12,281

## Sales by Business Group

Areas of strength or weakness in the local retail sector may be revealed through a comparative analysis of sales by specific types of businesses. The following table presents taxable sales statistics by business group for Linn County.

The top section shows the annualized number of reporting firms (average returns filed per quarter), taxable sales, and average sales per firm in 12 types of retail businesses. The bottom section shows sales by business group on a per capita basis. Real averages for the prior 3-year period are provided to identify areas of recent growth or decline. Median values for similar counties and statewide averages for the current fiscal year are also provided for benchmarking purposes. County data are suppressed for business groups that did not meet a minimum threshold for number of reporting firms.

Sales by business group should not be confused with sales by merchandise category. The business group sales data reflect the broad business classification of the firms making the sales, not the specific goods and services that were sold. See Page 15 for a more detailed list of the types of firms included within each business group.

### Linn County Taxable Sales Summary by Business Group

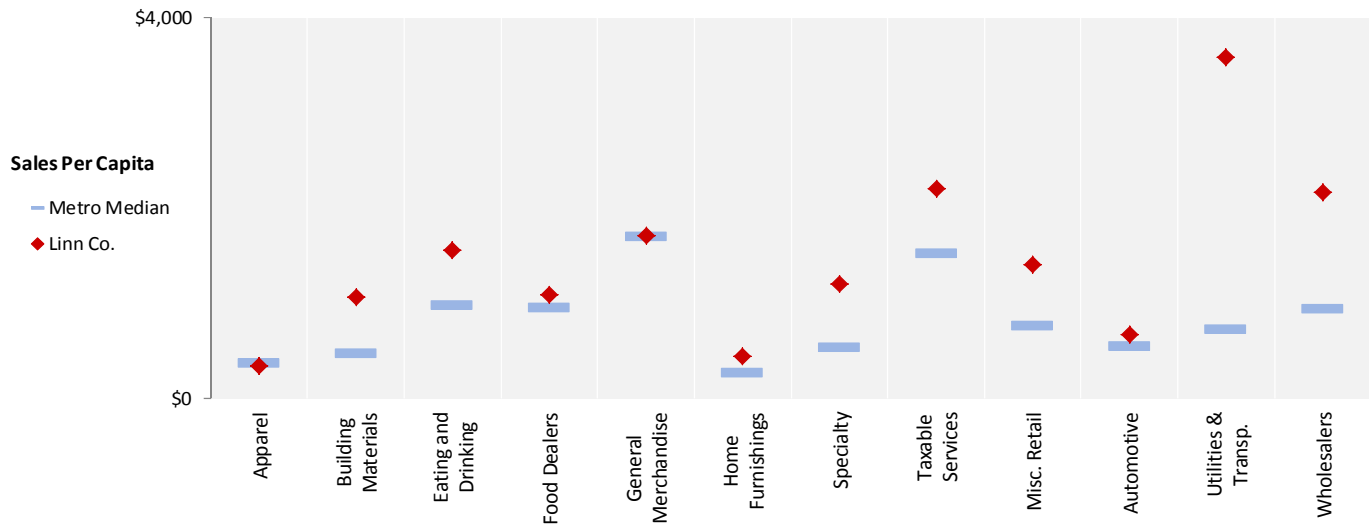
Type of Firm	Linn County FY16 Totals		Average Sales Per Firm (\$)	
	Total Sales (\$)	Reporting Firms	Linn County	State of Iowa
Apparel Stores	76,575,864	107	713,994	685,784
Building Materials Stores	235,324,258	81	2,914,232	1,859,909
Eating and Drinking Establishments	344,472,536	518	665,326	557,036
Food Stores (excluding non-taxable food items)	240,018,756	170	1,411,875	1,093,430
General Merchandise Stores	378,433,659	43	8,852,249	6,143,479
Home Furnishings Stores	97,019,626	83	1,172,443	835,356
Specialty Retail Stores	265,808,937	896	296,745	217,690
Service Establishments	486,015,660	2090	232,543	167,836
Miscellaneous Retail Firms	309,574,653	694	446,395	247,806
Automotive and Related Stores	147,348,640	123	1,202,846	796,628
Utilities and Transportation Services	790,453,794	167	4,740,353	1,038,577
Retail Sales by Wholesale Firms	478,184,888	254	1,882,618	907,981

Type of Firm	Linn County Trends		FY16 Benchmark Values	
	prior 3-year average FY13 - FY15	FY16	Metropolitan Median	State of Iowa
Apparel Stores	365	347	378	341
Building Materials Stores	1,067	1,066	484	883
Eating and Drinking Establishments	1,496	1,561	989	1,352
Food Stores (excluding non-taxable food items)	NA	1,087	960	1,112
General Merchandise Stores	1,939	1,714	1,714	1,509
Home Furnishings Stores	441	440	278	395
Specialty Retail Stores	1,212	1,204	547	976
Service Establishments	2,214	2,202	1,537	1,702
Miscellaneous Retail Firms	1,482	1,403	768	985
Automotive and Related Stores	NA	668	557	595
Utilities and Transportation Services	3,593	3,581	738	1,173
Retail Sales by Wholesale Firms	1,902	2,166	952	1,259

## Per Capita Sales by Business Group

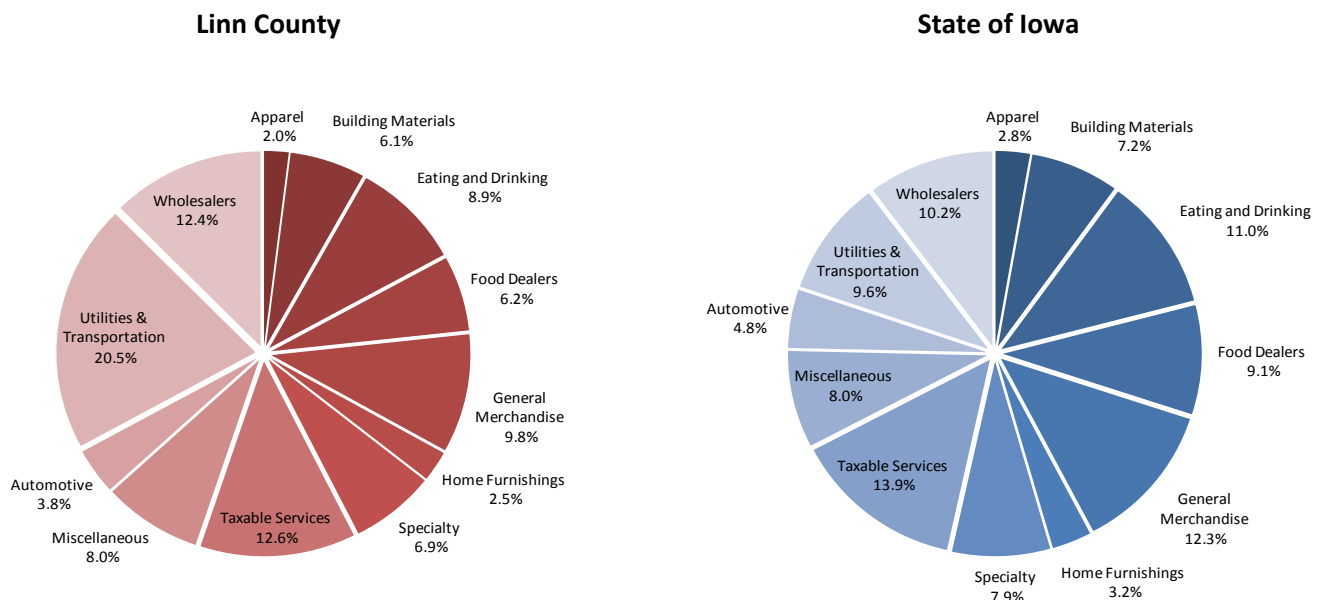
The chart below compares per capita sales by business group in Linn County with the median value for all 21 metropolitan counties in Iowa (see table on previous page for underlying data). Linn County per capita values are shown with red dots. The metropolitan median values appear as blue dashes. County data are suppressed for any business groups that did not meet a minimum threshold for number of reporting firms.

*Note: Sales values for the Wholesalers group reflect only the retail portion of sales by wholesale firms.*



## Distribution of Taxable Sales by Business Group

The following chart illustrates the percentage distribution of Linn County and statewide total taxable sales across the major retail business groups. County data are suppressed for any business groups that did not meet a minimum threshold for number of reporting firms. Sales in suppressed categories are aggregated into a single percentage value and labeled with an asterisk (\*).



## Statewide Average Per Capita Sales by Detailed Business Type, FY 2016

Business Type and Per Capita Sales (\$)			
<b>Apparel Group</b>	<b>\$341</b>	<b>Services Group</b>	<b>\$1,702</b>
Clothing and Clothing Accessories Stores	291	Auto Repair	347
Shoe Stores	50	Hotels and All Other Lodging Places	305
		Other Business Services	222
<b>Automotive and Related Firms</b>	<b>\$595</b>	Arts and Entertainment	193
New and Used Car Dealers	293	Beauty/Barber Shops	129
Automotive Parts and Accessories	218	Miscellaneous Repairs	94
Recreational and All Other Motorized Vehicles	83	Other Personal Services	79
		Auto Rental and Storage	59
<b>Building Materials Group</b>	<b>\$883</b>	Motion Picture and Video Industries	52
Building Material Dealers	638	Laundry and Floor Cleaning	41
Hardware Stores	131	Finance, Insurance, Real Estate and Leasing	40
Garden Supply Stores	80	Electronic and Precision Equipment Repair & Maintenance	37
Paint and Glass Stores	33	Other Services	29
Mobile Home Dealers	2	Funeral Service and Crematories	23
		Education and Athletic Events	19
<b>Eating and Drinking Places Group</b>	<b>\$1,352</b>	Photographic Studios	14
Restaurants, Taverns, and Bars	1,352	Employment Services	14
		Upholstery and Furniture Repair	2
<b>Food Dealers Group</b>	<b>\$1,112</b>	Watch, Clock, Jewelry Repair	0
Grocery Stores and Convenience Stores	559	Footwear and Leather Repair	0
Gas Stations/Convenience Stores With Gas	536		
Specialized Groceries	16	<b>Miscellaneous Group</b>	<b>\$985</b>
		Plumbing and Heating Contractors	151
<b>General Merchandise Group</b>	<b>\$1,509</b>	General Contractors	143
Department Stores	966	Agricultural Production and Services	134
Miscellaneous Merchandise Stores	537	Other Special Trade Contractors	114
Variety Stores	6	Industrial Equipment Manufacturers	84
		Miscellaneous Manufacturers	60
<b>Home Furnishings And Appliances Group</b>	<b>\$395</b>	Food Manufacturers	54
Appliances and Entertainment Equipment	152	Electrical Contractors	51
Furniture Stores	147	Non-Metallic Product Manufacturers	47
Home Furnishing Stores	97	Furniture, Wood and Paper Manufacturers	39
		Publishers Of Books & Newspapers and Commercial Printers	33
<b>Specialty Retail Stores Group</b>	<b>\$976</b>	Carpentry Contractors	25
Other Specialty	281	Unclassified	25
Sporting Goods	183	Mining	13
Beauty and Health (Includes Pharmacies & Drug Stores)	166	Painting Contractors	11
Direct Sellers	74	Apparel and Textile Manufacturers	2
Hobby and Toy	62		
Jewelry	60	<b>Wholesale Goods Group</b>	<b>\$1,259</b>
Book and Stationery Stores	41	(retail sales by wholesale firms)	1,259
Used Merchandise Stores	25		
Stationery, Gift, Novelty	25	<b>Utilities and Transportation Group</b>	<b>\$1,173</b>
Vending Machine Operators	23	Electric and Gas	454
Liquor Stores	18	Communications	447
Florists	15	Water and Sanitation	193
Fuel and Ice Dealers	1	Transportation and Warehousing	79
Electronic Shopping and Mail Order Houses	1		
		<b>All Business Groups</b>	<b>\$12,281</b>

# Consumer Characteristics

## National Spending Patterns by Income and Age

Consumer spending patterns vary with the age, income level, and other characteristics of the consumer. The chart at right illustrates differences in U.S. consumer spending on a selected bundle of goods and services that are taxable in Iowa. The retail bundle includes food away from home, telecommunications services, household supplies and furnishings, apparel, entertainment, automobile repair and maintenance, and personal services.

In the chart, average annual spending levels of consumers within each group are expressed as percentages of the all-consumer average. Differences are most apparent by income level, with persons in the highest household income quintile spending more than twice the average of persons in the lowest income quintile. Per person spending also tends to increase with householder age, but drops slightly among residents of elderly households.

**U.S. Consumer Spending on Selected Goods and Services That are Taxable in Iowa, by Type of Consumer**



## Local Income and Age Distributions

Recent county-level statistics may be used to profile the income and age distributions of area residents. If the county deviates strongly from statewide averages on these measures, one might expect some differences in local residents' spending compared to the average spending levels by all Iowa residents.

The table at right shows the county's median household income level and estimated poverty rate compared to the state. A lower median income level, a higher poverty rate, or both suggest that the percentage of county residents in low income brackets exceeds the statewide average. In these cases, comparatively lower retail spending levels may be anticipated locally.

The bottom half of the table illustrates the percentage distribution of the county's population by age group in years, relative to the comparable statewide percentages. Strong differences in the regional age distribution likely affect both the mix and levels of retail goods and services demanded by area residents.

### Linn County Profile

Median Household Income (\$)	Linn	State of Iowa
Estimate	58,142	54,843
90% Confidence Interval	55,260 - 61,030	54,080 - 55,610

Poverty Rate (%)	Linn	State of Iowa
Estimate	11.0	12.1
90% Confidence Interval	9.7 - 12.3	11.8 - 12.4

Population (% of total)	Linn	State of Iowa
Under 5 years	6.3%	6.3%
Age 5 to 17	17.4%	17.0%
Age 18 to 24	9.4%	10.3%
Age 25 to 44	26.3%	24.3%
Age 45 to 64	25.9%	26.0%
Age 65 years and over	14.7%	16.1%
Median age	37.5	38.1

- ▶ Higher than state
- ◀ Lower than state



# Other Factors Influencing Retail Sales

## Inflation

The rate of inflation measures changes over time in the purchasing power of the dollar. When price levels rise faster than earnings and other income, consumers may have to reduce or reallocate their spending.

The pace of U.S. inflation during the last 10 years is illustrated at right. This chart shows quarterly changes in the Midwest Consumer Price Index for All Urban Consumers, using first quarter of 2007 as the benchmark period.

**Midwest Consumer Price Index**  
(100% = Price Levels in 1st Quarter 2007)

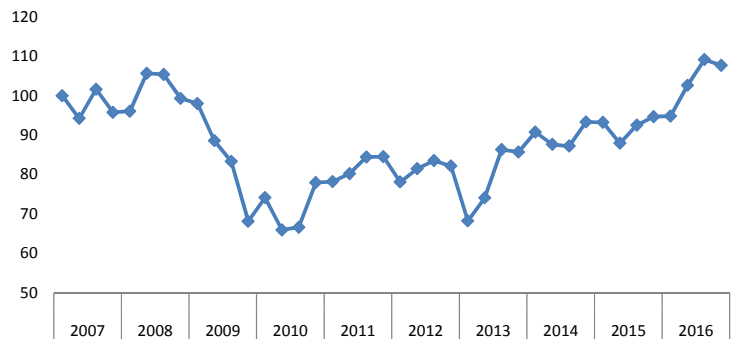


## Consumer Confidence

Consumer confidence refers to how favorably consumers view prospects for the economy and their own financial situation. Pessimism about the economy can have a dampening effect on household discretionary purchases, while optimism can boost the likelihood of purchases.

The chart at right illustrates a quarterly index of consumer confidence benchmarked to the first quarter of 2007. Source data were obtained from the Index of Consumer Sentiment, University of Michigan Surveys of Consumers, via the Federal Reserve Bank of St. Louis.

**U.S. Consumer Sentiment**  
(100 = Index Value in 1st Quarter 2007)

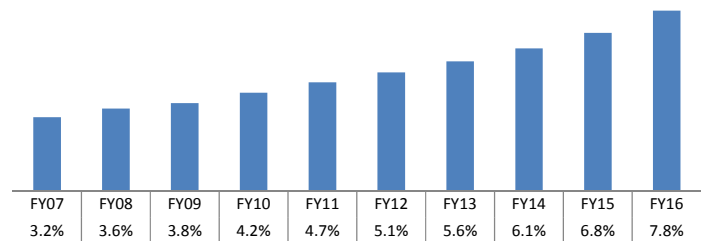


## Internet and Catalog Sales

E-commerce represents a rapidly-growing share of retail activity in the United States. While presenting a potential sales growth channel for many retailers, e-commerce also poses a threat as yet another source of sales leakage from Iowa's communities.

The chart at right shows the growing share of total U.S. retail sales that are transacted through e-commerce. E-commerce, which includes internet and catalog sales, describes transactions in which an order is placed and/or price and terms of sale are negotiated over an internet or other online system.

**E-Commerce Sales in the U.S.**  
(as a Percentage of Total Retail Sales)



## Iowa's Retail Sales Tax Reporting

The state of Iowa imposes a tax on the gross receipts from sales of taxable tangible personal property and taxable services. In general, merchandise goods are taxable unless specifically exempted and services are taxable if specifically enumerated by the state.

Retailers file sales tax returns to the Iowa Department of Revenue on a semi-monthly, monthly, quarterly, or annual basis depending on their amount of sales.

The Department of Revenue compiles the data from sales tax returns and publishes quarterly and annual retail sales tax reports that provide the primary source of data for this report.

Iowa's sales tax reporting process may lead to occasional anomalies in retail sales data reported at the local level. The state compiles these data primarily for fiscal management purposes, and only secondarily for analytical purposes.

Certain accounting and other administrative constraints may result in the under-reporting or no reporting of sales activity for individual communities.

**Confidentiality.** In order to protect the confidentiality of individual filers, the Iowa Department of Revenue only reports data from localities with a minimum of 10 tax returns filed for a quarter or 40 returns per year. Sales data for localities not meeting this threshold level are reported for the county in which they are located.

Recent changes in the administration of Iowa's sales tax include the following:

- July 1, 2004. Iowa revised its sales tax laws to meet Streamlined Sales Tax Project (SSTP) requirements. SSTP improves uniformity in sales tax laws across states, thereby encouraging businesses to collect and remit sales tax in every state in which they make taxable sales.

- January 1, 2006. The tax on certain types of energy was reduced to 0% after a 4-year phased decline.
- July 1, 2008. Iowa's sales tax rate increased from 5% to 6%.
- July 1, 2008. The Iowa Department of Revenue adopted a new fiscal year reporting period to align with the state fiscal year that runs from July 1 through June 30 of each year.
- July 1, 2013. The Iowa Department of Revenue changed the business class assignment for approximately 12 percent of Iowa's retailers.
- July 1, 2013. Taxable sales in the Convenience Stores and Gas Stations business class were reclassified from the Automotive and Related Group to the Food Dealers Group.

## Notable Exemptions and Exclusions from Iowa's Retail Sales Tax

Many retail transactions, because they are exempt or otherwise excluded from the state's sales tax, are not included in the taxable sales values reported in this report. Following are some notable exemptions from Iowa's sales tax. More detailed documentation is available from the Iowa Department of Revenue.

**Exempt or Excluded Goods.** Goods that are exempt from the sales tax include certain foods used for home consumption, prescription drugs, and medical devices. Sales of gasoline, subject to a separate fuel tax, are excluded from taxable retail sales. Taxable retail sales also exclude the sale or lease of new or used vehicles that are subject to registration. Vehicle purchases are taxed separately under the state's one-time registration fee.

**Exempt Services.** Unlike tangible goods, services are exempt from tax unless specifically enumerated. Professional

services such as medical and legal services are not subject to the sales tax.

**Utilities.** The state has phased out taxes on sales of metered gas, electricity, and fuel used as energy in residential dwellings, apartment units and condominiums. Specific exemptions may also apply to certain businesses and industries.

**Sales to Agriculture, Manufacturing, and Other Industries.** The state exempts sales of many goods and services that are used as inputs to agriculture and other industrial processes.

Sales tax exemptions for agriculture apply to the purchase of feed, seed, fertilizer, farm machinery and equipment, fuels and utilities, and some services.

Exemptions to manufacturing include purchases of tangible inputs that become an integral part of manufactured goods ultimately sold at retail; fuels, chemicals,

and other inputs that are consumed during production processes; industrial machinery, equipment, and some computer equipment; and many services.

The state has created additional exemptions targeted toward specific industries such as wind energy and information technology. See the Department of Revenue Web site for more detailed information about exempt sales to industry and business.

**Sales to Tax-Exempt Organizations.** Local and state government entities are exempt from the sales tax. Sales to private nonprofit educational institutions for educational purposes are also exempt. Sales from fund-raising activities are exempt from sales tax if the proceeds are used for educational, religious, or charitable purposes.

## Cautions for Interpreting Reported Sales Data

**Non-Taxable Goods & Services.** The sales information presented in this report provides only a partial picture of retail and service sector activity in Iowa's communities, due in part to the data reporting practices and sales tax exemptions listed on the previous page.

**Large Public Institutions.** The presence of large public institutions such as correctional facilities or universities may distort local sales measures, as their institutional purchases are excluded from taxable sales but their residents are included in local population estimates.

**Sales or Service Territories.** Reported sales values in some areas may appear inflated if they are home to the business office or headquarters of a firm with a broad, geographically-defined service territory such as a rural telecommunications or cable television provider.

## Definitions of Retail Measures

**Retail Sales.** This term refers to the reported sales of goods and services that are subject to Iowa's retail sales tax.

**Reporting Firms.** This value reflects the average number of tax returns filed per quarter during the year, and it serves as a proxy for the number of local retail firms.

**Real Sales.** "Real" dollar values have been standardized to reflect the purchasing power of a dollar in the current fiscal year, thus removing the effects of price inflation.

**Nominal Sales.** Nominal sales are the dollar amounts reported in the year the transactions actually took place. These values have not been adjusted for inflation.

**Sales Per Firm.** Per firm sales are calculated by dividing the annual dollar value of sales by the average number of reporting firms in that year.

**Sales Per Capita.** Per capita (or "per person") sales are calculated by dividing the dollar value of sales by the estimated population for the subject place, including group quarters residents.

**Expected Per Capita Spending.** An expected value for residents' average spending on taxable retail goods and services is used in the calculation of trade surplus and leakage, trade area capture, and pull factor values. This measure is sensitive to local income levels. For more information on the derivation of this measure, please contact the author.

**Sales by Business Group.** Sales tabulations by business group describe the types of firms where retail transactions occurred. They do *not* describe the type of merchandise that was sold.

## Other Data Notes

**City-to-County Assignments:** The incorporated territory of many Iowa cities crosses the boundaries of two or more counties. For this report, all cities are assigned to the county that contained the greatest percentage of its population in the 2010 Census.

**Commuting Flows:** Local Employment Dynamics Program, U.S. Census Bureau. These commuting flows describe the place of work and place of residence of wage and salary workers in 2014. Self-employed individuals such as sole proprietors and partners are excluded from these data.

**Consumer Spending Patterns:** Consumer Expenditure Survey, U.S. Bureau of Labor Statistics.

**Consumer Sentiment:** Surveys of Consumers, University of Michigan, University of Michigan: Consumer Sentiment®, retrieved from FRED, Federal Reserve Bank of St. Louis <https://research.stlouisfed.org/fred2/series/UMCSENT>, 04/12/17.

**E-commerce Sales:** US. Bureau of the Census, E-Commerce Retail Sales as a Percent of Total Sales, retrieved from FRED, Federal Reserve Bank of St. Louis <https://research.stlouisfed.org/fred2/series/ECOMPCTSA>, 04/12/17.

**Employment:** U.S. Bureau of Economic Analysis (annual) and U.S. Bureau of Labor Statistics (monthly). Employment includes full-time and part-time jobs, with all jobs counted equally.

**Household Income and Poverty:** Small Area Income and Poverty Estimates, U.S. Census Bureau.

**Inflation Rate:** Midwest Region Consumer Price Index for All Urban Consumers, All Items, U.S. Bureau of Labor Statistics.

**Average Wages and Salaries per Job:** U.S. Bureau of Economic Analysis.

**Population:** Iowa State University estimates, based on data released through the Population Estimates Program, U.S. Census Bureau. With each annual data release, the U.S. Census Bureau may revise its estimates from prior years. This report incorporates the most recently available estimates and revisions. Population-based statistics published in this report may not reconcile with those appearing in earlier retail trade analysis reports. In most cases, the discrepancies are minor.

**Price Deflators:** Except where otherwise noted in this report, the dollar values for all retail sales and personal income data have been adjusted for inflation using the Implicit Price Deflator for Personal Consumption Expenditures published by the U.S. Bureau of Economic Analysis.

**Unemployment:** Local Area Unemployment Statistics, U.S. Bureau of Labor Statistics.

## County Peer Group Definitions

	<b>County Name</b>	<b>2010 Population</b>	<b>Metropolitan or Micropolitan Statistical Area Name</b>
<b>1</b>	Black Hawk.....	131,090	Waterloo-Cedar Falls, IA Metropolitan Statistical Area
	Dallas.....	66,135	Des Moines-West Des Moines, IA Metropolitan Statistical Area
	Dubuque.....	93,653	Dubuque, IA Metropolitan Statistical Area
	Johnson.....	130,882	Iowa City, IA Metropolitan Statistical Area
	Linn.....	211,226	Cedar Rapids, IA Metropolitan Statistical Area
	Polk.....	430,640	Des Moines-West Des Moines, IA Metropolitan Statistical Area
	Pottawattamie.....	93,158	Omaha-Council Bluffs, NE-IA Metropolitan Statistical Area
	Scott.....	165,224	Davenport-Moline-Rock Island, IA-IL Metropolitan Statistical Area
	Story.....	89,542	Ames, IA Metropolitan Statistical Area
	Woodbury.....	102,172	Sioux City, IA-NE-SD Metropolitan Statistical Area
<b>2</b>	Boone.....	26,306	Boone, IA Micropolitan Statistical Area
	Buena Vista.....	20,260	Storm Lake, IA Micropolitan Statistical Area
	Carroll.....	20,816	Carroll, IA Micropolitan Statistical Area
	Cerro Gordo.....	44,151	Mason City, IA Micropolitan Statistical Area
	Clay.....	16,667	Spencer, IA Micropolitan Statistical Area
	Clinton.....	49,116	Clinton, IA Micropolitan Statistical Area
	Des Moines.....	40,325	Burlington, IA-IL Micropolitan Statistical Area
	Dickinson.....	16,667	Spirit Lake, IA Micropolitan Statistical Area
	Jasper.....	36,842	Newton, IA Micropolitan Statistical Area
	Jefferson.....	16,843	Fairfield, IA Micropolitan Statistical Area
	Lee.....	35,862	Fort Madison-Keokuk, IA-IL-MO Micropolitan Statistical Area
	Mahaska.....	22,381	Oskaloosa, IA Micropolitan Statistical Area
	Marion.....	33,309	Pella, IA Micropolitan Statistical Area
	Marshall.....	40,648	Marshalltown, IA Micropolitan Statistical Area
	Muscatine.....	42,745	Muscatine, IA Micropolitan Statistical Area
	Wapello.....	35,625	Ottumwa, IA Micropolitan Statistical Area
	Webster.....	38,013	Fort Dodge, IA Micropolitan Statistical Area
<b>3</b>  (continues next page)	Allamakee.....	14,330	None (not part of a metropolitan or micropolitan area)
	Appanoose.....	12,887	None
	Buchanan.....	20,958	None
	Cass.....	13,956	None
	Cedar.....	18,499	None
	Cherokee.....	12,072	None
	Chickasaw.....	12,439	None
	Clarke.....	9,286	None
	Crawford.....	17,096	None
	Delaware.....	17,764	None
	Emmet.....	10,302	None
	Fayette.....	20,880	None
	Floyd.....	16,303	None
	Franklin.....	10,680	None
	Greene.....	9,336	None
	Hamilton.....	15,673	None
	Hancock.....	11,341	None
	Hardin.....	17,534	None
	Henry.....	20,145	None
	Howard.....	9,566	None
Humboldt.....	9,815	None	

## County Peer Group Definitions

3	(continued from previous page)	County Name	2010 Population	Metropolitan or Micropolitan Statistical Area Name
		Iowa.....	16,355	None (not part of a metropolitan or micropolitan area)
Jackson.....	19,848	None		
Kossuth.....	15,543	None		
Lucas.....	8,898	None		
Mitchell.....	10,776	None		
Monona.....	9,243	None		
Monroe.....	7,970	None		
Montgomery.....	10,740	None		
O'Brien.....	14,398	None		
Osceola.....	6,462	None		
Page.....	15,932	None		
Palo Alto.....	9,421	None		
Poweshiek.....	18,914	None		
Shelby.....	12,167	None		
Sioux.....	33,704	None		
Tama.....	17,767	None		
Union.....	12,534	None		
Winnebago.....	10,866	None		
Winneshiek.....	21,056	None		
Wright.....	13,229	None		

4		County Name	2010 Population	Metropolitan or Micropolitan Statistical Area Name
		Benton.....	26,076	Cedar Rapids, IA Metropolitan Statistical Area
Bremer.....	24,276	Waterloo-Cedar Falls, IA Metropolitan Statistical Area		
Grundy.....	12,453	Waterloo-Cedar Falls, IA Metropolitan Statistical Area		
Guthrie.....	10,954	Des Moines-West Des Moines, IA Metropolitan Statistical Area		
Harrison.....	14,928	Omaha-Council Bluffs, NE-IA Metropolitan Statistical Area		
Jones.....	20,638	Cedar Rapids, IA Metropolitan Statistical Area		
Madison.....	15,679	Des Moines-West Des Moines, IA Metropolitan Statistical Area		
Mills.....	15,059	Omaha-Council Bluffs, NE-IA Metropolitan Statistical Area		
Plymouth.....	24,986	Sioux City, IA-NE-SD Metropolitan Statistical Area		
Warren.....	46,225	Des Moines-West Des Moines, IA Metropolitan Statistical Area		
Washington.....	21,704	Iowa City, IA Metropolitan Statistical Area		

5		County Name	2010 Population	Metropolitan or Micropolitan Statistical Area Name
		Adair.....	7,682	None (not part of a metropolitan or micropolitan area)
Adams.....	4,029	None		
Audubon.....	6,119	None		
Butler.....	14,867	None		
Calhoun.....	9,670	None		
Clayton.....	18,129	None		
Davis.....	8,753	Ottumwa, IA Micropolitan Statistical Area		
Decatur.....	8,457	None		
Fremont.....	7,441	None		
Ida.....	7,089	None		
Keokuk.....	10,511	None		
Louisa.....	11,387	None		
Lyon.....	11,581	None		
Pocahontas.....	7,310	None		
Ringgold.....	5,131	None		
Sac.....	10,350	None		
Taylor.....	6,317	None		
Van Buren.....	7,570	None		
Wayne.....	6,403	None		
Worth.....	7,598	Mason City, IA Micropolitan Statistical Area		

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[www.icip.iastate.edu](http://www.icip.iastate.edu)



## Frequently-Asked Questions

Following are some of the most frequently-asked questions about the content of this report:

**What happened to the detailed business group sales data for cities?** Long-time users of the Iowa State University (ISU) Retail Trade Analysis reports may notice the absence of city-level sales data by type of business. Beginning in Fiscal Year 2009, the Iowa Department of Revenue ceased publication of detailed business group data at the individual city level in its Annual Retail Sales and Use Tax Report. As a consequence, the ISU Retail Trade Analysis reports now provide analysis of business group sales at the county and state levels only. Subject to strict disclosure limitations, the Iowa Department of Revenue may provide detailed categorical sales data for individual cities upon request.

**Why do historical data in this report differ from previously-published ISU retail reports?**

The underlying population and income data used in this report are subject to backward revision by the U.S. Census Bureau and sister agencies, meaning that historical data are revised as new information becomes available. Any revisions to population and income estimates may result in re-statement of per capita retail sales, pull factors, and related measures for prior years. This report incorporates the most recently-revised statistics, and no effort is made to reconcile the historical data with prior versions of the ISU Retail Trade Analysis reports.

**Are the retail sales statistics fully comparable over time?** Users should note that retail statistics in this report describe only taxable, not total, retail sales. Changes to Iowa's sales tax laws have redefined the mix of goods and services included within taxable sales transactions over time. Changes in sales tax reporting practices may also complicate analysis of historical trends at the local or statewide level. Notable recent changes include the following:

- Iowa Department of Revenue reassigned more than 10 percent of Iowa's retailers to different business class codes that better reflect their business focus (FY 2014).
- Iowa Department of Revenue reclassified gasoline stations with convenience stores from the automotive and related group to the food dealers group (FY 2014).

These reclassifications should be noted when comparing sales by business group before and after FY 2014.

**Are the pull factors and other retail measures adjusted for differences in local income?**

Yes. In calculating local pull factor ratios and estimating trade surplus/leakage values, this report incorporates small area income data available from the American Community Survey (ACS), U.S. Census Bureau.

## Acknowledgements

For more than three decades, Iowa State University has provided analysis and outreach services to describe retail trade patterns in Iowa's cities and counties. In producing this report, we acknowledge the pioneering work of Kenneth E. Stone, now Professor Emeritus, in applied community retail trade analysis.

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