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Retail Trade Analysis Report, Fiscal Year 2015: Mahaska County

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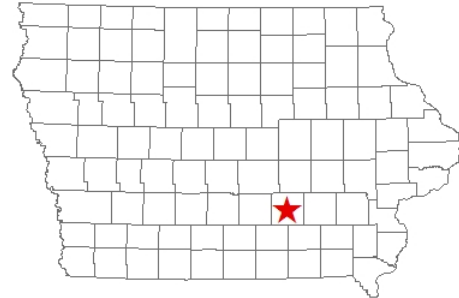
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Retail Trade Analysis Report

Fiscal Year 2015

Mahaska County



Iowa State University
Department of Economics

Contents:

| | |
|----------------------------|-------|
| 10-Year Sales Summary | 2 |
| Local Economic Conditions | 3-4 |
| Peer Group Analysis | 5-6 |
| Pull Factor Analysis | 7-8 |
| Regional Competition | 9-11 |
| Historical Trends | 12 |
| Sales by Business Group | 13-15 |
| Consumer Characteristics | 16-17 |
| Data Notes | 18-21 |
| Frequently-Asked Questions | 23 |

Overview

This report examines local retail sales and related economic trends in Mahaska 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 2015 dollar equivalents. The 2015 fiscal year began on July 1, 2014, and ended on June 30, 2015.

About Mahaska County:

- Mahaska County recorded a total population of 22,381 residents in the 2010 Census, including 659 residents in group quarters such as skilled nursing facilities and group homes.
- Mahaska County is part of the Oskaloosa, IA Micropolitan Statistical Area.

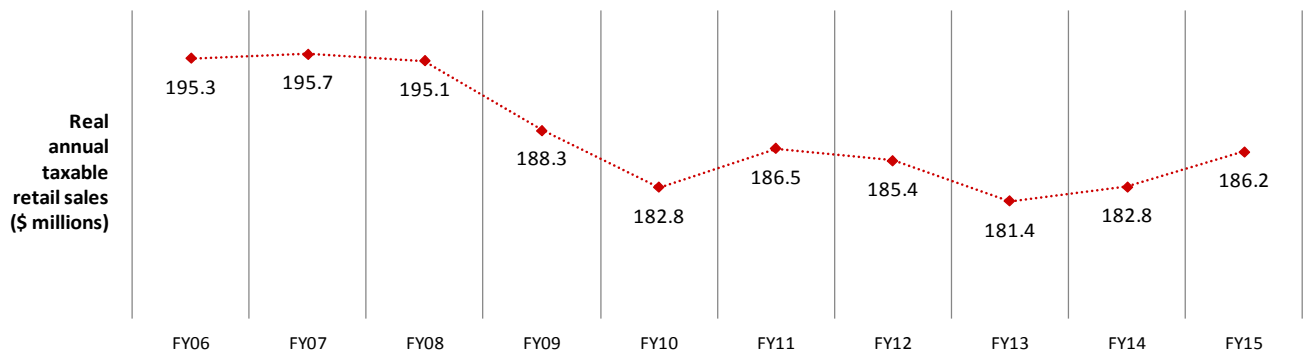
Key Retail Indicators for Mahaska County

| Mahaska | FY2014 | FY2015 | % Change |
|--|-------------|-------------|----------|
| Real total taxable sales (\$) | 182,843,389 | 186,231,197 | 1.9% ▲ |
| Number of reporting firms (annualized) | 663 | 672 | 1.4% ▲ |
| Population | 22,369 | 22,333 | -0.2% ▼ |
| Average sales per capita (\$) | 8,174 | 8,339 | 2.0% ▲ |
| Average sales per firm (\$) | 275,886 | 277,130 | 0.5% ▲ |

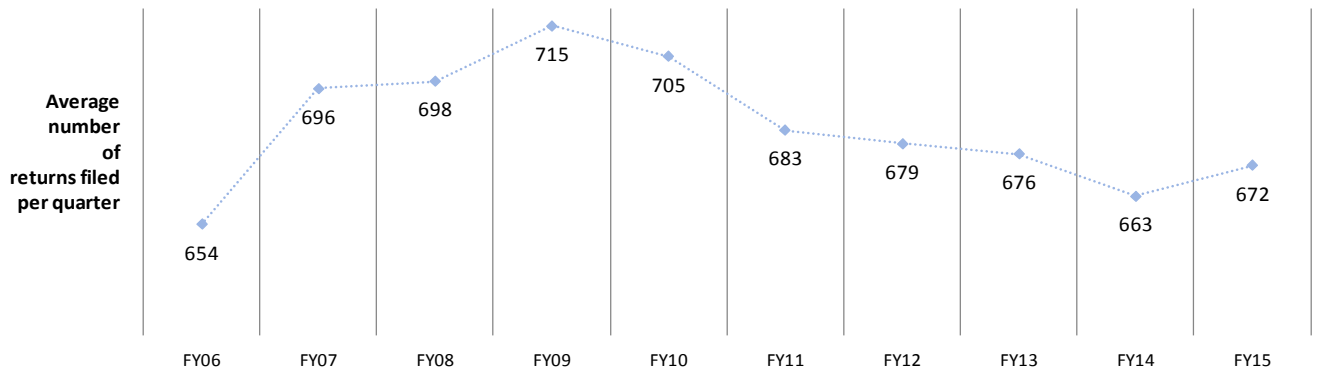
No distinctions are made between households and group quarters residents in the calculation of per capita sales and related indicators.

10-Year Summary Retail Sales Tax Statistics

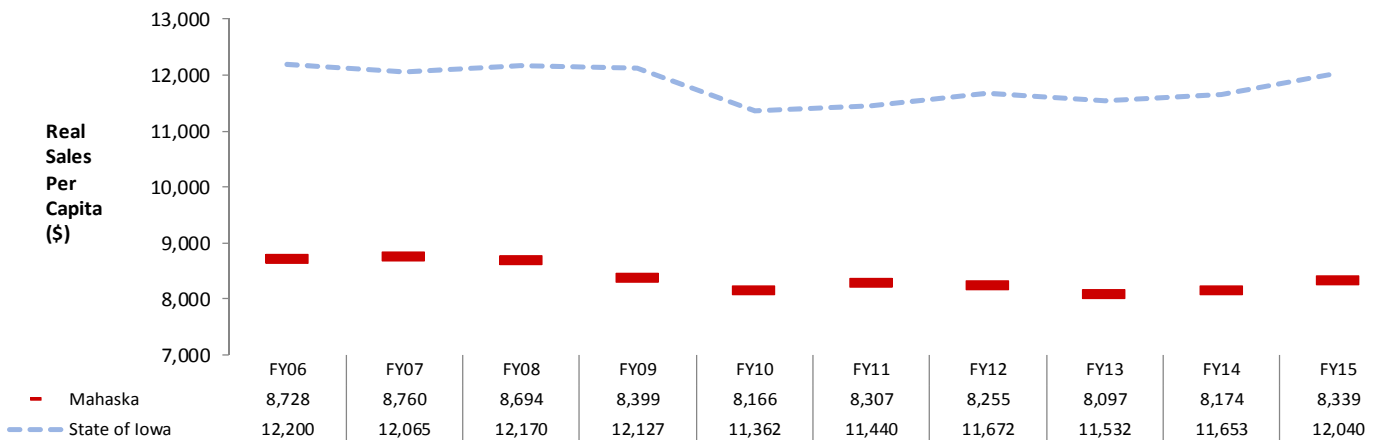
Real Total Taxable Sales in Mahaska County



Annualized Number of Reporting Firms in Mahaska County



Taxable Retail Sales Per Capita



Local Economic Trends

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.

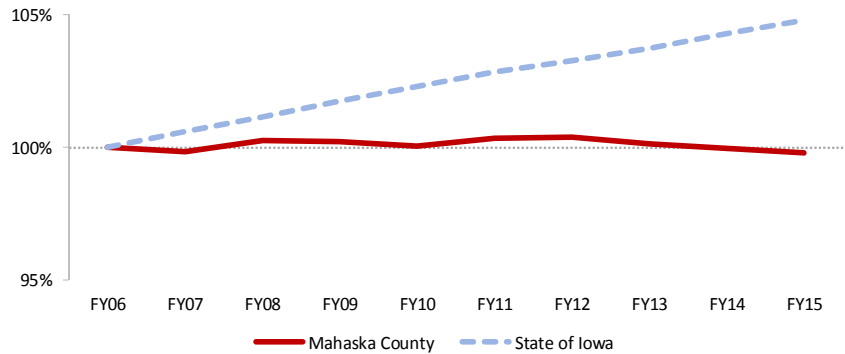
The top chart at right shows annual population estimates for Mahaska County and the state indexed to baseline values from ten years ago. The population in any given year is expressed in percentage terms compared to the base year population.

The middle chart at right compares population change in Mahaska 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 Mahaska County.

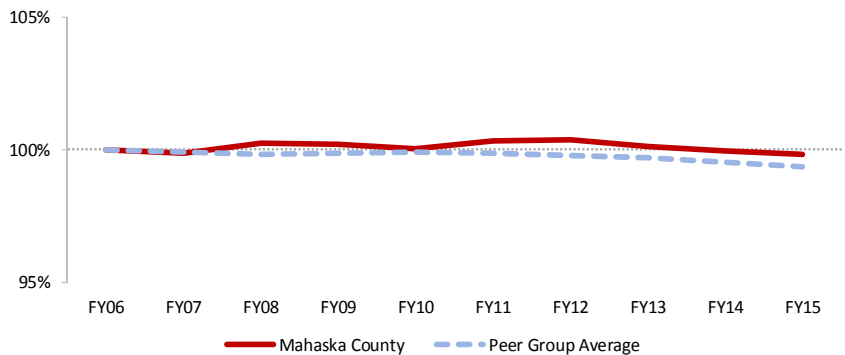
Personal Income

The local demand for retail goods and services also depends on the income level of area residents. Per capita nonfarm personal income provides a useful gauge of the average income in the region. Nonfarm income includes wage and salary earnings of residents, self-employment income, investment income, and government transfer payments. The chart at right illustrates recent, inflation-adjusted average nonfarm income levels in Mahaska County and the state.

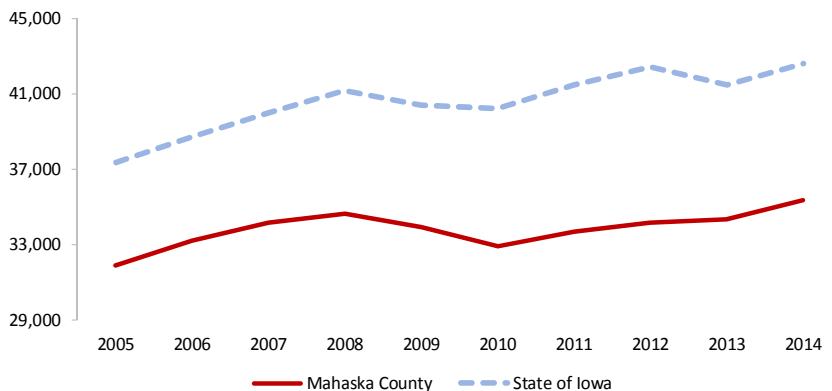
Population Trends
(Annual estimates as a percentage of 2005 population)



Population Trend for Peer Counties
(Annual estimates as a percentage of 2005 population)



Real Nonfarm Income Per Capita (\$)



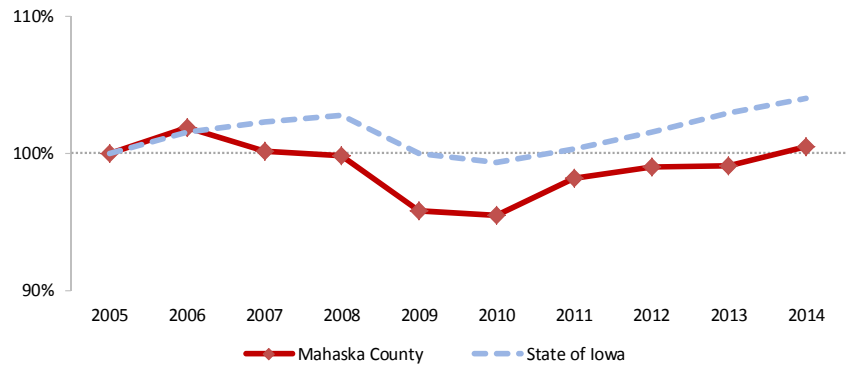
Employment

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.

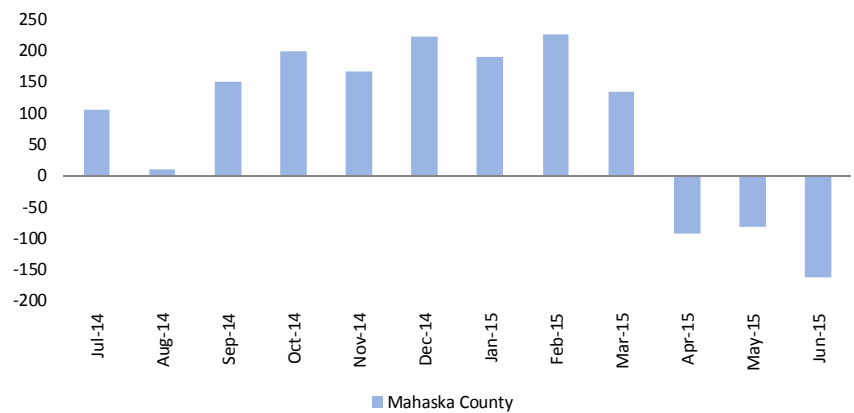
The chart at top right shows the 10-year trend in wage and salary employment in Mahaska County compared to the state. The number of jobs in each year is expressed in percentage terms compared to the number of jobs in the beginning year.

The middle chart shows more recent job gains and losses in Mahaska County. The chart illustrates the numeric gain or loss in jobs during Fiscal Year 2015 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 2005 employment)



Recent Job Gains or Losses
(Change in jobs from same month in prior year)

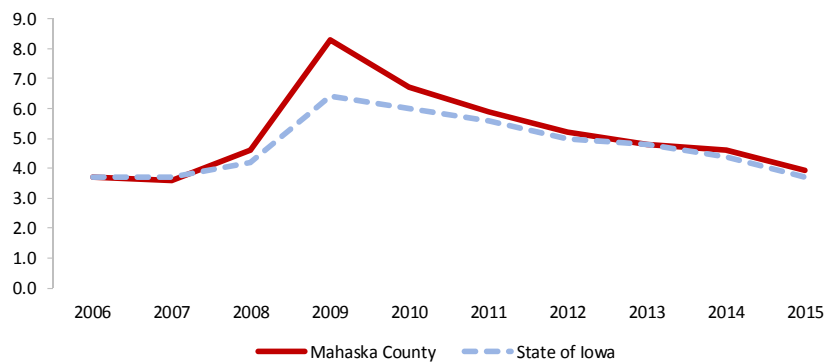


Unemployment

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 Mahaska 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 15 micropolitan statistical areas.

The county peer groups are defined in the following table, with the relevant peer group for Mahaska 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 2015.

Peer Group Definitions

| Peer Group | Metropolitan or Micropolitan Status | Number of Counties | % of State Taxable Sales |
|----------------|---|--------------------|--------------------------|
| Group 1 | Core county of a metropolitan statistical area | 10 | 64.5% |
| Group 2 | Core county of a micropolitan statistical area | 15 | 14.6% |
| Group 3 | Non-metro county whose largest city is between 2,500 to 9,999 in population | 43 | 14.0% |
| Group 4 | Outlying (non-core) county in a metropolitan statistical area | 11 | 4.0% |
| 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 2015



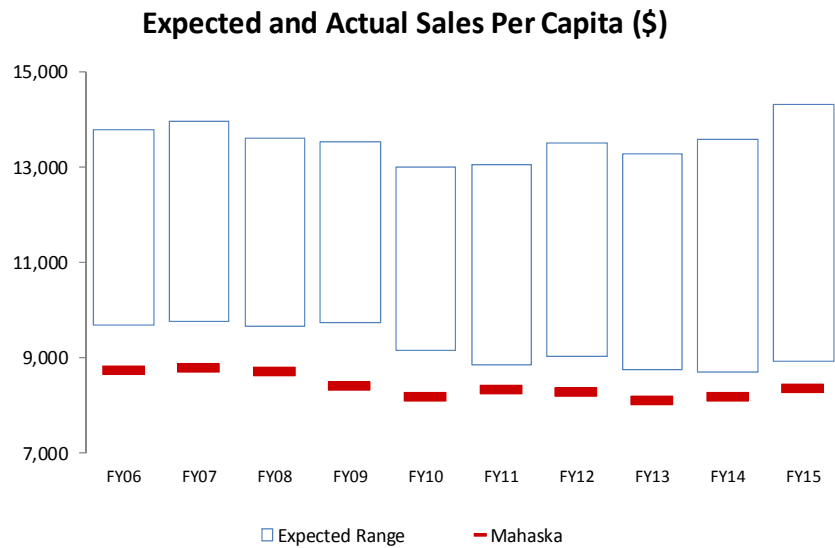
Expected Range for Local Sales Per Capita

The chart at right compares sales levels in Mahaska 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 Mahaska County.

In Fiscal Year 2015, per capita sales in Mahaska were below the expected range, ranking within the bottom quartile of the peer group.



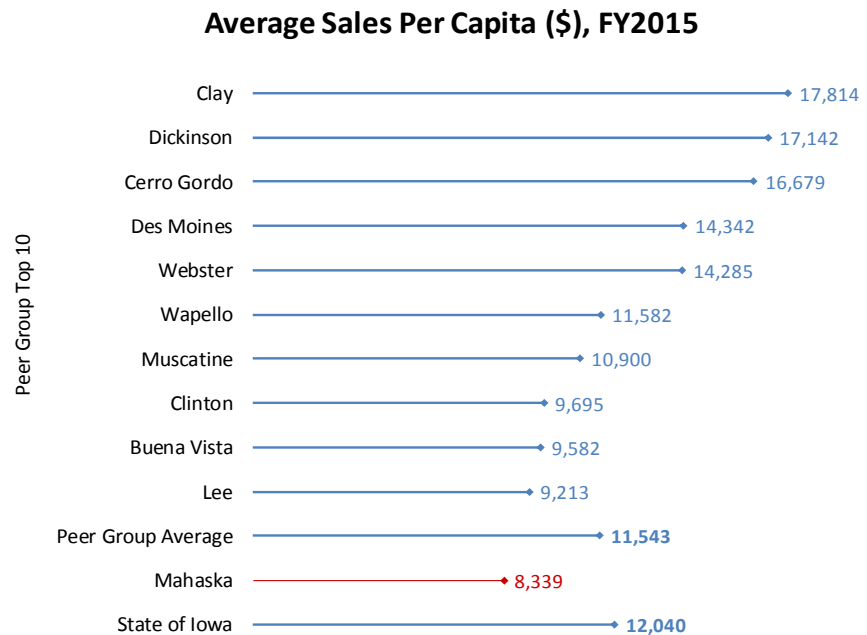
Top 10 Peer Group Counties

Among the 15 counties in its peer group, Mahaska ranked number 14 in per capita sales.

The peer group’s top performers, measured by their average sales per capita in Fiscal Year 2015, 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 from sales to non-residents. A deficit suggests net leakage from local residents’ spending in other counties.

Below are trade surplus or leakage estimates for Mahaska 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 Mahaska County residents’ total spending on taxable goods and services that are purchased anywhere within Iowa.

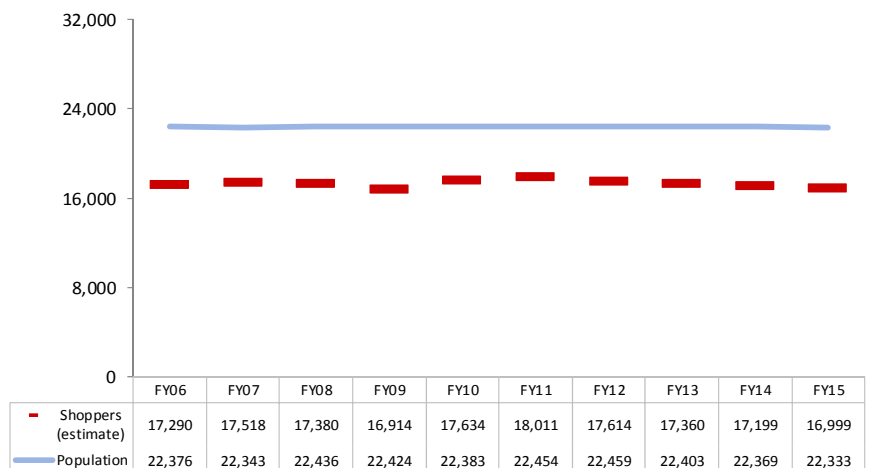
| Mahaska Breakeven Analysis | FY06 | FY07 | FY08 | FY09 | FY10 | FY11 | FY12 | FY13 | FY14 | FY15 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Statewide average per capita spending (\$) | 12,200 | 12,065 | 12,170 | 12,127 | 11,362 | 11,440 | 11,672 | 11,532 | 11,653 | 12,040 |
| <i>x Local income adjustment</i> | 0.93 | 0.93 | 0.92 | 0.92 | 0.91 | 0.91 | 0.90 | 0.91 | 0.91 | 0.91 |
| = Average spending (anywhere) by residents (\$) | 11,295 | 11,173 | 11,223 | 11,135 | 10,366 | 10,356 | 10,526 | 10,449 | 10,631 | 10,955 |
| <i>x County population estimate</i> | 22,376 | 22,343 | 22,436 | 22,424 | 22,383 | 22,454 | 22,459 | 22,403 | 22,369 | 22,333 |
| = Breakeven sales target (\$000s) | 252,737 | 249,632 | 251,796 | 249,686 | 232,017 | 232,537 | 236,402 | 234,098 | 237,812 | 244,666 |
| Actual sales (\$000s) | 195,290 | 195,726 | 195,058 | 188,330 | 182,786 | 186,529 | 185,400 | 181,402 | 182,843 | 186,231 |
| Surplus estimate (\$000s) | - | - | - | - | - | - | - | - | - | - |
| Leakage estimate (\$000s) | (57,448) | (53,905) | (56,738) | (61,356) | (49,231) | (46,008) | (51,002) | (52,696) | (54,969) | (58,435) |

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 Mahaska County and its peer group. The county's pull factor values are indicated with red circles.

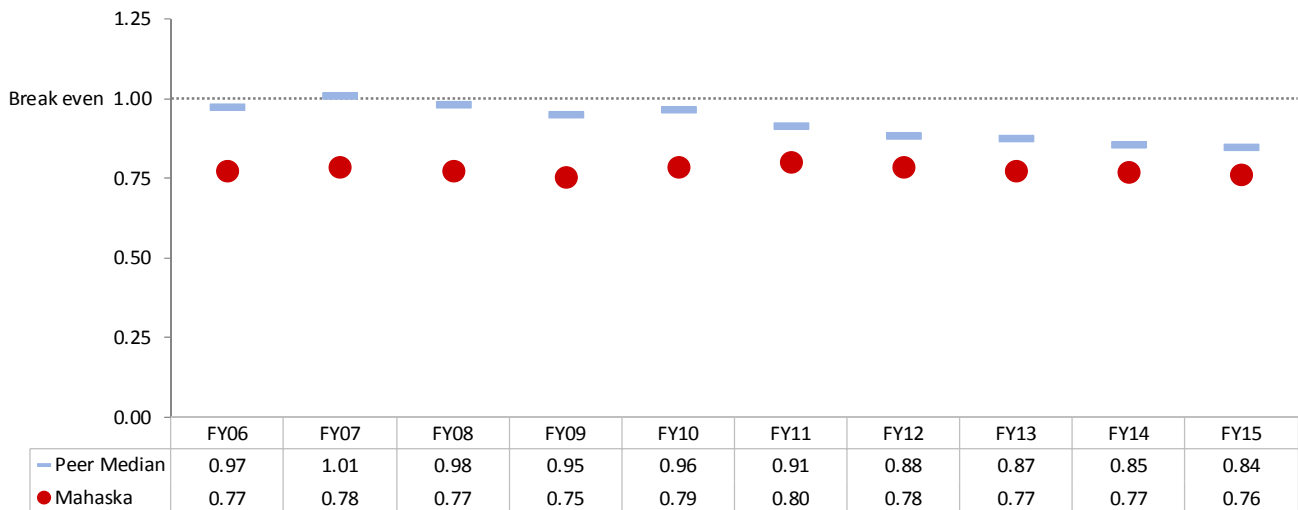
The blue dashes indicate the median pull factor for the peer group in each year. If the county's pull factor exceeds the group median, it ranks among the top half of its peer group. If its pull factor is below the median value, then it ranks among the bottom half of counties in its peer group.

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



Area Commuting Patterns

Worker commuting flows reveal important regional economic relationships that may influence the county's retail performance. In particular, the propensity of residents to out-commute to other counties for work may represent sources of potential sales leakage.

The top chart at right displays worker commuting flows into and out of Mahaska County. The commuting flows are determined from the locations of residence and employment for wage and salary workers in the region.

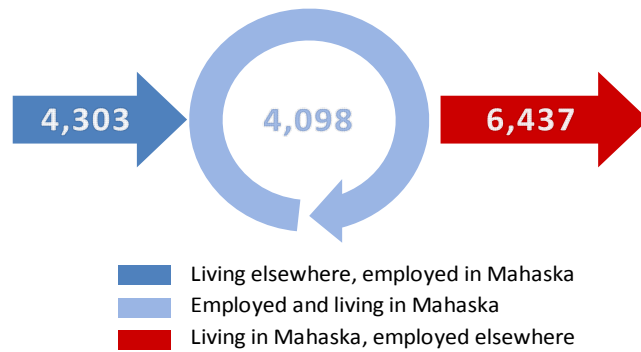
When residents commute elsewhere for work, the likelihood that they will shop locally, especially during traditional business hours, decreases. The county's overall rate of out-commuting is compared to the average for similarly-sized counties below. The rates express the percentage of working residents who commute to some other county for work.

Worker Out-Commuting Rates

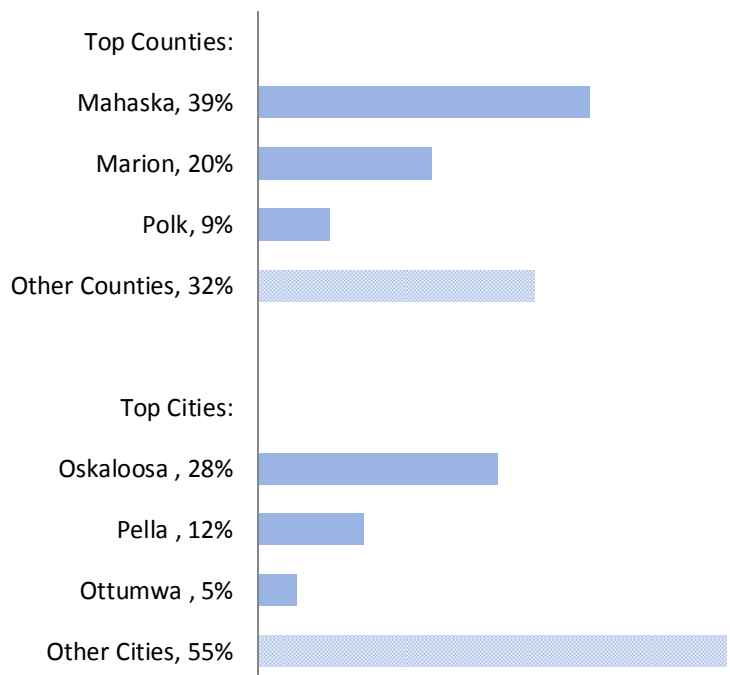
| | |
|----------------|-------|
| Mahaska County | 61.1% |
| Peer Counties | 44.9% |

The bottom chart at right identifies the top three counties and cities attracting the greatest number of Mahaska County workers in 2013. The chart measures the percentage of employed Mahaska County residents who commute to the given destination for work.

Worker Inflows and Outflows, 2013



**Where Mahaska County Residents Work:
Percentage of Residents by Their Workplace Destination**



Note: The commuting charts on this page are based on 2013 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 outflows may differ slightly from the values shown here.

Regional Trade Patterns

Regional shopping patterns may be inferred from the 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.

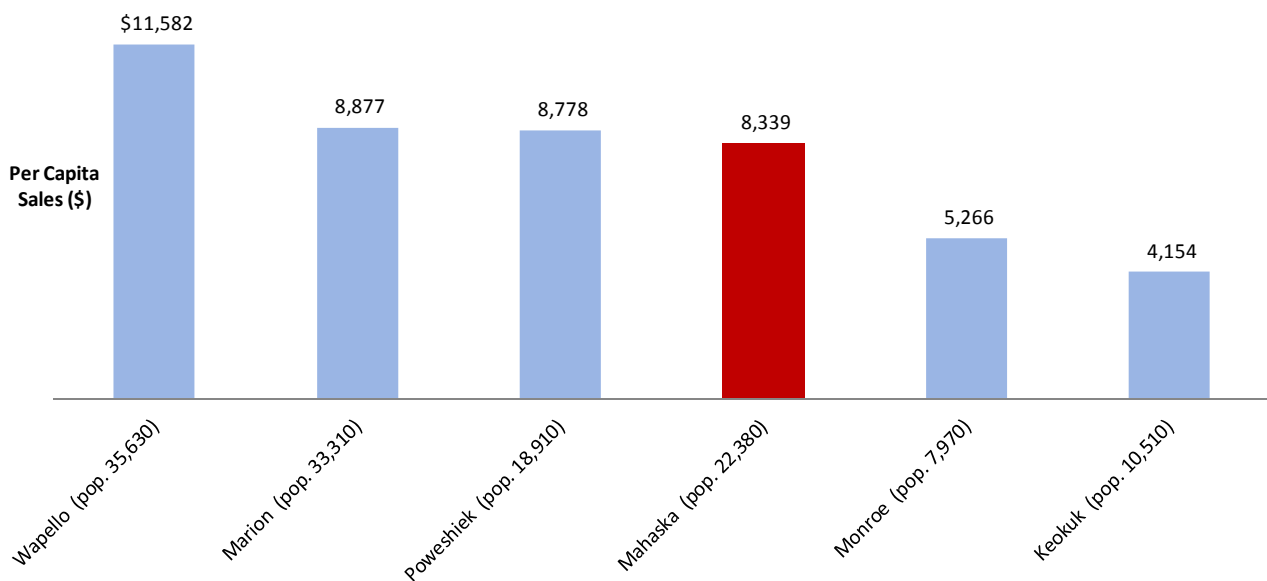
The map at right illustrates county retail pull factors for Fiscal Year 2015 (see Page 8 for a definition of pull factors). The counties with a pull factor exceeding 1.0, identified in the map with large blue dots, are likely exerting a strong retail influence on trade centers in neighboring counties. 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 2015



The bar graph below compares Fiscal Year 2015 per capita sales in Mahaska County to average sales in neighboring counties. The comparison group includes the five counties nearest to Mahaska County, with distance measured “as the crow flies” between county midpoints. The counties are listed from left to right in descending order by their 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 Mahaska County and the State of Iowa are presented in the table below. All dollar values, with the exception of nominal total sales, have been adjusted for inflation and are shown in Fiscal Year 2015-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 Mahaska:

| Fiscal Year | Reporting Firms | Total Taxable Sales (\$) | | Real Average Sales (\$) | | Statewide Real Average (\$) | |
|-------------|-----------------|--------------------------|-------------|-------------------------|------------|-----------------------------|------------|
| | | Nominal | Real | Per Firm | Per Capita | Per Firm | Per Capita |
| 1976 | 727 | 64,098,399 | 224,505,993 | 308,918 | 10,130 | 367,203 | 10,423 |
| 1977 | 744 | 74,527,818 | 246,806,426 | 331,729 | 10,952 | 378,588 | 11,037 |
| 1978 | 795 | 80,033,172 | 248,466,147 | 312,536 | 10,846 | 373,002 | 11,282 |
| 1979 | 819 | 94,507,408 | 272,276,253 | 332,551 | 11,842 | 378,296 | 11,786 |
| 1980 | 825 | 100,306,000 | 262,137,557 | 317,839 | 11,438 | 371,075 | 11,754 |
| 1981 | 813 | 95,233,996 | 225,994,087 | 278,061 | 9,960 | 330,228 | 10,673 |
| 1982 | 797 | 95,334,054 | 211,623,340 | 265,525 | 9,438 | 317,532 | 10,272 |
| 1983 | 801 | 101,462,307 | 214,760,278 | 268,199 | 9,697 | 308,671 | 10,153 |
| 1984 | 802 | 100,940,729 | 205,318,342 | 256,008 | 9,301 | 302,331 | 10,069 |
| 1985 | 782 | 105,286,297 | 206,843,190 | 264,675 | 9,406 | 298,971 | 10,045 |
| 1986 | 779 | 106,861,076 | 203,710,439 | 261,586 | 9,370 | 293,083 | 10,030 |
| 1987 | 786 | 111,311,248 | 207,645,144 | 264,180 | 9,635 | 309,927 | 10,462 |
| 1988 | 788 | 113,533,859 | 204,217,272 | 259,159 | 9,493 | 311,436 | 10,520 |
| 1989 | 786 | 113,330,944 | 195,286,351 | 248,377 | 9,089 | 316,560 | 10,615 |
| 1990 | 771 | 115,980,930 | 192,235,083 | 249,413 | 8,947 | 320,631 | 10,720 |
| 1991 | 744 | 126,208,797 | 200,629,289 | 269,844 | 9,314 | 322,081 | 10,660 |
| 1992 | 741 | 134,896,269 | 208,835,256 | 282,019 | 9,684 | 322,544 | 10,753 |
| 1993 | 737 | 139,372,086 | 210,213,994 | 285,423 | 9,685 | 322,841 | 10,887 |
| 1994 | 744 | 142,947,601 | 211,007,125 | 283,516 | 9,656 | 329,684 | 11,122 |
| 1995 | 753 | 138,412,280 | 199,907,142 | 265,393 | 9,094 | 336,544 | 11,347 |
| 1996 | 740 | 139,350,145 | 197,370,094 | 266,626 | 8,954 | 337,495 | 11,599 |
| 1997 | 742 | 147,754,437 | 204,931,729 | 276,188 | 9,282 | 354,797 | 11,790 |
| 1998 | 732 | 151,691,454 | 208,083,740 | 284,170 | 9,375 | 357,151 | 11,995 |
| 1999 | 729 | 157,367,034 | 213,803,863 | 293,485 | 9,573 | 382,214 | 12,498 |
| 2000 | 719 | 157,465,927 | 209,507,044 | 291,488 | 9,374 | 389,513 | 12,555 |
| 2001 | 725 | 161,312,107 | 209,544,026 | 288,927 | 9,374 | 390,369 | 12,592 |
| 2002 | 711 | 158,603,524 | 203,494,934 | 286,109 | 9,084 | 391,745 | 12,443 |
| 2003 | 673 | 151,022,679 | 190,119,497 | 282,391 | 8,535 | 409,161 | 12,299 |
| 2004 | 660 | 152,466,277 | 188,139,155 | 284,951 | 8,476 | 416,365 | 12,181 |
| 2005 | 659 | 161,088,483 | 193,678,167 | 294,120 | 8,667 | 414,708 | 12,110 |
| 2006 | 654 | 167,460,511 | 195,289,549 | 298,608 | 8,728 | 425,627 | 12,200 |
| 2007 | 696 | 171,649,213 | 195,726,161 | 281,418 | 8,760 | 417,710 | 12,065 |
| 2008 | 698 | 176,306,471 | 195,058,489 | 279,554 | 8,694 | 418,340 | 12,170 |
| 2009** | 715 | 172,302,505 | 188,330,154 | 263,491 | 8,399 | 410,177 | 12,127 |
| 2010 | 705 | 168,949,446 | 182,785,897 | 259,179 | 8,166 | 393,988 | 11,362 |
| 2011 | 683 | 175,442,228 | 186,528,874 | 273,202 | 8,307 | 408,706 | 11,440 |
| 2012 | 679 | 178,634,690 | 185,400,024 | 273,149 | 8,255 | 416,882 | 11,672 |
| 2013 | 676 | 177,476,109 | 181,401,515 | 268,544 | 8,097 | 411,471 | 11,532 |
| 2014 | 663 | 181,398,422 | 182,843,389 | 275,886 | 8,174 | 427,881 | 11,653 |
| 2015 | 672 | 186,231,197 | 186,231,197 | 277,130 | 8,339 | 445,394 | 12,040 |

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 Mahaska 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.

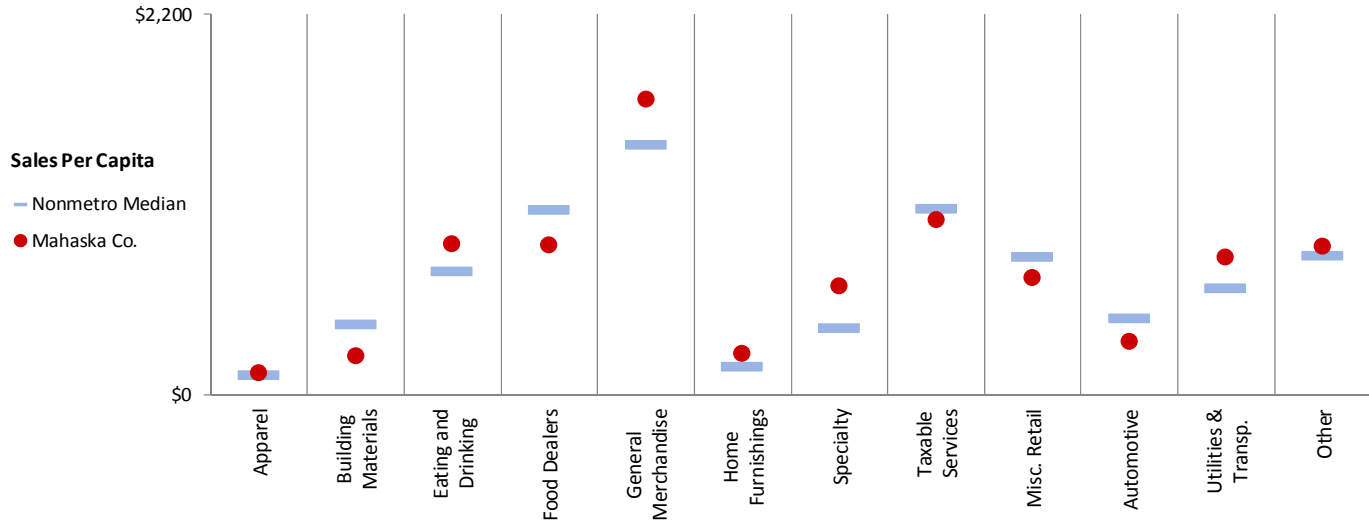
Mahaska County Taxable Sales Summary by Business Group

| Total Sales and Average Sales Per Firm | Mahaska County FY15 Totals | | Average Sales Per Firm (\$) | |
|--|----------------------------|-----------------|-----------------------------|---------------|
| | Total Sales (\$) | Reporting Firms | Mahaska County | State of Iowa |
| Apparel Stores | 2,896,130 | 9 | 313,095 | 683,697 |
| Building Materials Stores | 4,978,313 | 8 | 622,289 | 1,769,707 |
| Eating and Drinking Establishments | 19,585,486 | 47 | 418,941 | 542,812 |
| Food Stores (excluding non-taxable food items) | 19,312,195 | 23 | 858,320 | 1,031,121 |
| General Merchandise Stores | 38,224,949 | 9 | 4,132,427 | 6,092,479 |
| Home Furnishings Stores | 5,259,830 | 12 | 457,377 | 789,058 |
| Specialty Retail Stores | 14,142,011 | 132 | 107,136 | 208,769 |
| Service Establishments | 22,698,363 | 249 | 91,342 | 164,397 |
| Miscellaneous Retail Firms | 15,139,415 | 91 | 167,286 | 245,425 |
| Automotive and Related Stores | 6,924,732 | 24 | 294,669 | 760,959 |
| Utilities and Transportation Services | 17,777,319 | 31 | 578,124 | 1,011,924 |
| Other | 19,292,454 | 40 | 488,417 | 888,105 |

| Average Sales Per Capita | Mahaska County Trends | | Benchmark Values for FY15 | |
|--|-------------------------------|-------|---------------------------|---------------|
| | Real per capita averages (\$) | | Non-Metro | State of Iowa |
| Type of Firm | FY12 - FY14 | FY15 | Median | Iowa |
| Apparel Stores | 128 | 129 | 120 | 341 |
| Building Materials Stores | 256 | 222 | 409 | 868 |
| Eating and Drinking Establishments | 844 | 874 | 721 | 1,301 |
| Food Stores (excluding non-taxable food items) | NA | 862 | 1,075 | 1,058 |
| General Merchandise Stores | 1,890 | 1,705 | 1,451 | 1,512 |
| Home Furnishings Stores | 267 | 235 | 165 | 390 |
| Specialty Retail Stores | 662 | 631 | 394 | 934 |
| Service Establishments | 972 | 1,013 | 1,080 | 1,665 |
| Miscellaneous Retail Firms | 702 | 675 | 803 | 969 |
| Automotive and Related Stores | NA | 309 | 447 | 575 |
| Utilities and Transportation Services | 786 | 793 | 621 | 1,165 |
| Other | 636 | 861 | 812 | 1,261 |

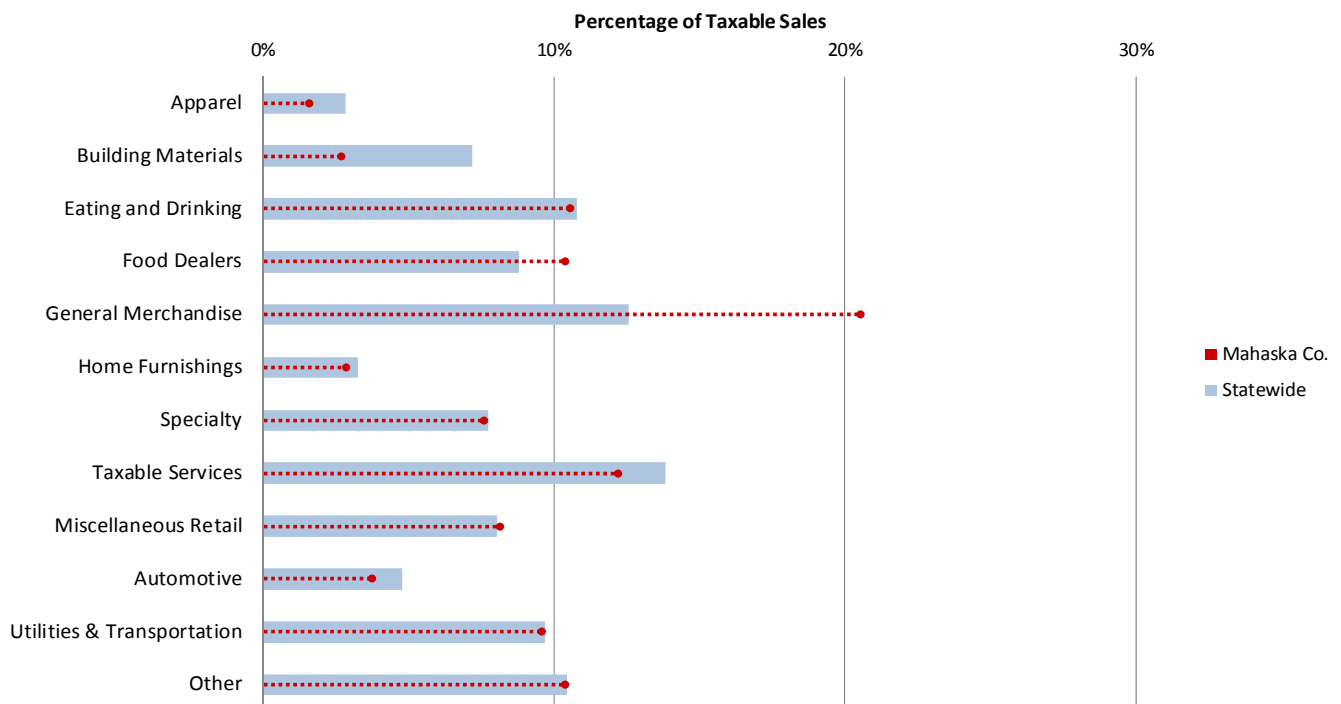
Per Capita Sales by Business Group

The chart below compares actual per capita sales by business group in Mahaska County with the median value for all 78 non-metropolitan counties in Iowa (see table on previous page for underlying data). Mahaska County per capita values are shown with red dots. The non-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.



Distribution of Taxable Sales by Business Group

The following chart illustrates the percentage distribution of Mahaska County's total taxable sales across the major retail business groups. Mahaska County values are shown with red dotted lines. Statewide averages are shown with blue bars. County data are suppressed for any business groups that did not meet a minimum threshold for number of reporting firms.



Statewide Average Per Capita Sales by Detailed Business Type, FY 2015

| Business Type and Per Capita Sales (\$) | | | |
|---|--------------|--|---------------|
| Apparel Group | \$341 | Services Group | 1,665 |
| Clothing and Clothing Accessories Stores | 291 | Auto Repair | 339 |
| Shoe Stores | 50 | Hotels and All Other Lodging Places | 293 |
| | | Other Business Services | 223 |
| Automotive and Related Firms | 575 | Arts and Entertainment | 185 |
| New and Used Car Dealers | 281 | Beauty/Barber Shops | 123 |
| Automotive Parts and Accessories | 216 | Miscellaneous Repairs | 85 |
| Recreational and All Other Motorized Vehicles | 78 | Other Personal Services | 74 |
| | | Auto Rental and Storage | 54 |
| Building Materials Group | 868 | Motion Picture and Video Industries | 54 |
| Building Material Dealers | 626 | Laundry and Floor Cleaning | 47 |
| Hardware Stores | 129 | Finance, Insurance, Real Estate and Leasing | 41 |
| Garden Supply Stores | 80 | Electronic and Precision Equipment Repair & Maintenance | 37 |
| Paint and Glass Stores | 31 | Other Services | 30 |
| Mobile Home Dealers | 2 | Funeral Service and Crematories | 23 |
| | | Education and Athletic Events | 20 |
| Eating and Drinking Places Group | 1,301 | Photographic Studios | 16 |
| Restaurants, Taverns, and Bars | 1,301 | Employment Services | 15 |
| | | Upholstery and Furniture Repair | 2 |
| Food Dealers Group | 1,058 | Watch, Clock, Jewelry Repair | 0 |
| Grocery Stores and Convenience Stores | 522 | Footwear and Leather Repair | 0 |
| Gas Stations/Convenience Stores With Gas | 519 | | |
| Specialized Groceries | 17 | Miscellaneous Group | 969 |
| | | Plumbing and Heating Contractors | 143 |
| General Merchandise Group | 1,512 | General Contractors | 133 |
| Department Stores | 963 | Agricultural Production and Services | 130 |
| Miscellaneous Merchandise Stores | 543 | Other Special Trade Contractors | 121 |
| Variety Stores | 6 | Industrial Equipment Manufacturers | 87 |
| | | Miscellaneous Manufacturers | 58 |
| Home Furnishings And Appliances Group | 390 | Food Manufacturers | 55 |
| Appliances and Entertainment Equipment | 154 | Electrical Contractors | 48 |
| Furniture Stores | 142 | Non-Metallic Product Manufacturers | 43 |
| Home Furnishing Stores | 94 | Furniture, Wood and Paper Manufacturers | 39 |
| | | Publishers Of Books & Newspapers and Commercial Printers | 37 |
| Specialty Retail Stores Group | 934 | Carpentry Contractors | 26 |
| Other Specialty | 241 | Unclassified | 23 |
| Sporting Goods | 177 | Mining | 13 |
| Beauty and Health (Includes Pharmacies & Drug Stores) | 163 | Painting Contractors | 11 |
| Direct Sellers | 74 | Apparel and Textile Manufacturers | 1 |
| Hobby and Toy | 64 | | |
| Jewelry | 62 | Wholesale Goods Group | 1,261 |
| Book and Stationery Stores | 43 | (retail sales by wholesale firms) | 1,261 |
| Used Merchandise Stores | 26 | | |
| Stationery, Gift, Novelty | 24 | Utilities and Transportation Group | 1,165 |
| Vending Machine Operators | 24 | Electric and Gas | 465 |
| Liquor Stores | 17 | Communications | 444 |
| Florists | 15 | Water and Sanitation | 184 |
| Fuel and Ice Dealers | 2 | Transportation and Warehousing | 72 |
| Electronic Shopping and Mail Order Houses | 1 | | |
| | | All Business Groups | 12,040 |

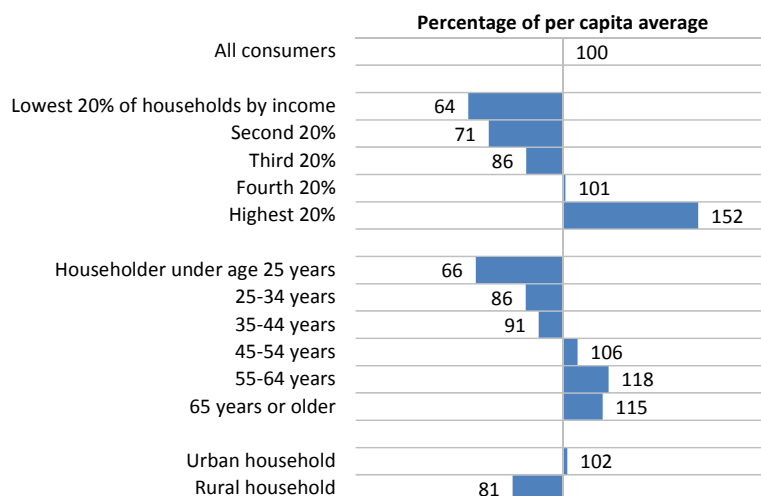
Consumer Characteristics

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.

Mahaska County Profile

| Median Household Income (\$) | Mahaska | State of Iowa |
|------------------------------|-----------------|-----------------|
| Estimate | 48,584 | 53,816 |
| 90% Confidence Interval | 44,320 - 52,850 | 53,090 - 54,550 |

| Poverty Rate (%) | Mahaska | State of Iowa |
|-------------------------|-------------|---------------|
| Estimate | 12.9 | 12.3 |
| 90% Confidence Interval | 10.4 - 15.4 | 12.0 - 12.6 |

| Population (% of total) | Mahaska | State of Iowa |
|-------------------------|---------|---------------|
| Under 5 years | 6.1% | 6.3% |
| Age 5 to 17 | 17.6% | 17.1% |
| Age 18 to 24 | 9.7% | 10.3% |
| Age 25 to 44 | 23.1% | 24.3% |
| Age 45 to 64 | 26.6% | 26.2% |
| Age 65 years and over | 16.9% | 15.8% |
| Median age | 39.2 | 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 2006 as the benchmark period.

Midwest Consumer Price Index
(100% = Price Levels in 2006-Q1)



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 start of Fiscal Year 2006. 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 FY2006)



Internet and Catalog Sales

E-commerce represents a small but rapidly growing share of retail activity in the United States. While e-commerce presents a sales growth opportunity for many retailers, it also poses a potentially important new source of retail sales leakage for 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. Some cities' reported sales values 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 2013. 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>, 02/25/16.

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>, 02/25/16.

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.

Nonfarm Personal Income: U.S. Bureau of Economic Analysis. This report excludes farm earnings and income from measures of local personal income due to the annual volatility of farm income and the fact that many farm-related purchases are exempt from Iowa sales tax.

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

| | County Name | 2010 Population | Metropolitan or Micropolitan Statistical Area Name |
|---------------------------------------|--------------------|--|---|
| 1 | 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 |
| 2 | Boone..... | 26,306 | Boone, IA Micropolitan Statistical Area |
| | Buena Vista..... | 20,260 | Storm Lake, 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 |
| | 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 | |
| 3 (continues next page) | Allamakee..... | 14,330 | None (not part of a metropolitan or micropolitan area) |
| | Appanoose..... | 12,887 | None |
| | Buchanan..... | 20,958 | None |
| | Carroll..... | 20,816 | 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 |
| Iowa..... | 16,355 | None | |

County Peer Group Definitions

| 3 (continued from previous page) | County Name | 2010 Population | Metropolitan or Micropolitan Statistical Area Name |
|-------------------------------------|--------------|-----------------|--|
| | Jackson..... | 19,848 | None (not part of a metropolitan or micropolitan area) |
| Kossuth..... | 15,543 | None | |
| Lucas..... | 8,898 | None | |
| Marion..... | 33,309 | 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 | 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 | 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



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. The ACS income estimates are spatially-smoothed, then used to derive pull factor and related retail measures that account for variations in local income levels.

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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