Draft Economic Analysis The City of Royal Oak Oct 23, 2023

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Prepared by:



In Collaboration with:

DPZ

Economic Analysis

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Section 4-A

Economic Analysis

Acknowledgements

This Economic Analysis for the City of Royal Oak is the result of a collaborative planning effort among public and private stakeholders led by the city's Planning Commission and with considerable support and dedication by staff within the city's Department of Planning and Economic Development. It supports a significant planning initiative underway by the city's consultants, DPZ CoDesign, and has been used as an economic foundation in DPZ's development of the new citywide Master Plan.

This document is one of four that have been prepared during the planning process. It focuses on the Economic Analysis (Document 04) and is complemented by a separate Retail Market analysis (Document 02) and retail portions of a Real Estate Analysis (included in Document 03). In addition, Document 01 is designed to focus on a separate but correlated Residential Analysis that focuses on the Royal Oak's potential for new housing choices.

Four Documents Industry

01 Residential Analysis Housing

02 Retail Market Analysis Retail Trade

03 Real Estate Analysis Housing + Retail

04 Economic Analysis All Industries

The market analyses listed above have all been prepared by Sharon Woods, President of LandUseUSA | Urban Strategies. The firm was founded in 2008 and is located within the Greater Lansing Metropolitan Area. Lansing also is home to the state's capital, department of treasury, land bank authority, economic development corporation (MEDC), housing and development authority (MSHDA), and community and economic development association (CEDAM). LandUseUSA's contact information is provided on the following page along with DPZ CoDesign's.

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LandUseUSA | Urban Strategies

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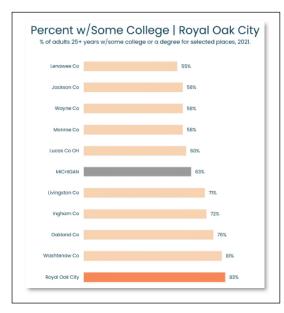


Economic Analysis

Educational Attainment

The economic analysis for the City of Royal Oak focuses on a study of educational attainment, labor force participation and unemployment rates, employment and market share by industry, net worker outflow, working from home patterns, and place visits reported by Google. Most of the analysis focuses on the City of Royal Oak with comparisons to Oakland County and the Southeast Michigan region.

Education usually precedes employment, so it is discussed first. Based on the economic analysis, 83% of all adults over 24 years of age have some college education or a college degree. This is exceptionally high compared to Oakland County (75%) and the State of Michigan (63%).



Based on preliminary SAT tests among 8th graders, 69.5% of Royal Oak Schools' students have advanced or proficient scores in the English Language Arts (ELA). This is slightly higher than the average for Oakland County (67%) and surpassed only by the Washtenaw Intermediary School District (ISD, 71.1%) and Livingston Educational Service Agency (ESA, 73.4%).

SAT tests also indicate that 44.1% of Royal Oak 8th graders have advanced or proficient scores in Math, Science, and Social Studies. Again, this is higher than the average for Oakland County (40.5%) and surpassed only by the Washtenaw ISD (47.1%) and Livingston ESA (45.0%).

The relatively high SAT scores for Royal Oak's young students are an advantage for the city and will help it compete for new employers. When seeking new locations, employers will seriously consider their ability to effectively compete for skilled workers. In turn, migrating workers often will seek cities with good employment opportunities and short commutes.

Economic Analysis

Labor Force, Unemployment

The economic analysis also reveals that for the City of Royal Oak, 76% of all adults over 15 years of age are actively participating in the labor force. This is exceptionally high compared to averages for Oakland County (66%) and the State of Michigan (62%). Furthermore, the average of 66% for Oakland County is higher than every other county in the region, including Washtenaw (64%) and Livingston (65%) counties.

The City of Royal Oak also has an exceptionally low unemployment rate of just 3.1%, compared to 4.8% for Oakland County and 6.2% for the State of Michigan. Trendline data for Oakland County shows that unemployment had been 13% in 2010, declined to 5% by 2015, and reached a low of 4% in 2017, 2018, and 2019.

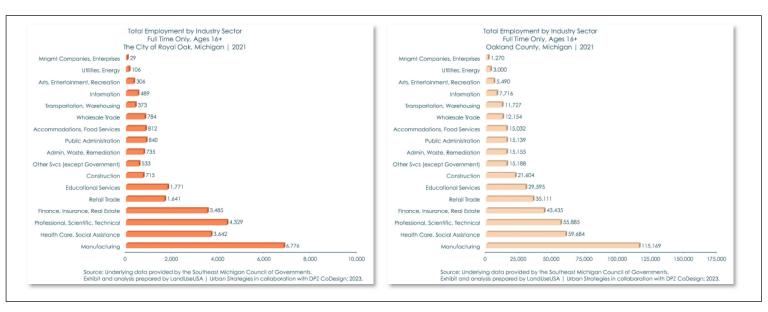
County unemployment rates increased slightly to 5% in 2020 and 6% in 2021, which probably was temporary and attributable to the recent Covid-19 health pandemic. Adjacent Livingston County followed a similar pattern, whereas Wayne County was more deeply impacted by the pandemic. In 2019, Wayne County's unemployment rate had fallen to 7% from a high of 21% in 2010. During the pandemic, it increased to 9% in 2020 and 11% in 2021 – but it probably has recovered since.



Economic Analysis

Introduction

Within the City of Royal Oak, the manufacturing industry has the largest number of full-time workers (6,776) over 15 years of age. The second largest sector is professional, scientific, and technical trades (4,329 full-time workers); followed by health care and social assistance (3,642 workers); and finance, insurance, and real estate (3,485). These also are the top four industry leaders for Oakland County overall.

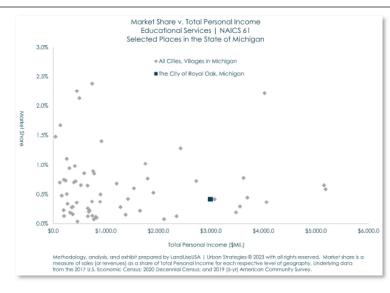


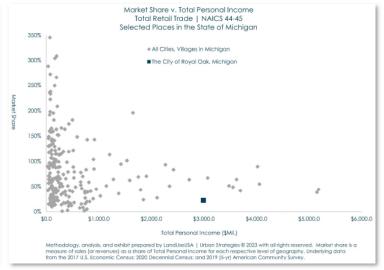
In comparison, several industries in Royal Oak appear to be under-represented compared to Oakland County, particularly educational services (1,771 full-time workers) and retail trade (1,641 workers). Although they are small industries, construction (715), transportation and warehousing (373), and other services excluding government (533) also seem under-represented in the city.

The study also includes an industry market share analysis that compares most cities in Michigan based on total reported revenues as a share of total personal income (revenues / total personal income = market share). Cluster charts are used in the analysis to demonstrate how Royal Oak compares to other cities of similar size (i.e., similar total personal income).

This narrative does not attempt to provide an in-depth explanation of the methodology behind the market share analysis, and instead focuses on key observations and conclusions. In general, the City of Royal Oak falls short of its full market potential in nearly every industry except restaurants and drinking establishments; and health care (including social assistance).

These results support earlier observations that there is an upside opportunity for economic growth in Royal Oak by attracting new employers with good paying jobs, and particularly in educational services and retail trade sectors. The city would benefit from having a community college or trade school; and that there also is an opportunity to improve retail shopping choices throughout the city – including destination stores in the downtown and conveniences at neighborhood nodes.





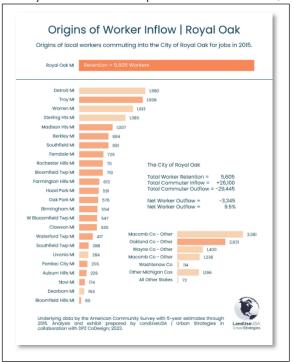
Economic Analysis

Net Worker Outflow

The City of Royal Oak currently has a net worker outflow of -3,345 daily commuters, representing about -9.5% of all local resident workers. The city is retaining over 5,600 of its resident workers (in other words, they both live and work in the city) and drawing +26,100 commuters to work in the city although they live in other places. However,

the city also is losing -29,445 of its resident commuters to jobs located in competing markets places, resulting in a net outflow of -3,345 workers (26,100 - 29,445 = -3,345). This indicates an opportunity to close the gap with the creation of new jobs within the city, enabling it to retain more of its resident workers while achieving more worker inflow from beyond.

When local workers commute into the City of Royal Oak for local jobs, most are arriving from Detroit, Troy, Warren, Sterling Heights, Madison Heights, Berkley, and Southfield. When local residents commute out of Royal Oak for jobs in competing places, most are going to Detroit, Troy, Southfield, Birmingham, Warren, Auburn Hills, and Farmington Hills.



These results can be used by prospective employers to help identify their area of draw when competing for skilled workers. Results also can be used by the prospective developers when allocate marketing dollars and competing for new home buyers and renters.

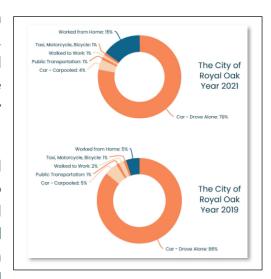
Economic Analysis

Working from Home

In the year 2019 and prior to the recent Covid-19 health pandemic, only 5% of Royal Oak's workers reported that they worked from home. The pandemic had its greatest impact on employment in the second quarter of 2020, but those impacts had mostly recovered by the end of that year. Even so, a remarkable 15% of the city's workers reported that they were working from home in 2021 – essentially tripling the rate.

The 15% work from home statistic is higher than Oakland County and the Southeast Michigan region. In Oakland County, working from home increased from 5% before the pandemic to 12% after. For the region, working from home increased from 4% to only 10%.

Depending on the perspective, these results could hint at decline in demand for office space. They also could suggest a need to add community (and especially downtown) amenities that help local workers stay socially connected while working from home. Examples include co-working space; small



business and office support services; restaurants and eateries; and square, parks, and other public open spaces.

Economic Analysis

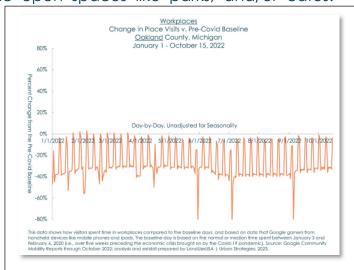
Place Visits by Google

Google collects data from handheld devices like mobile phones and iPads, and the results demonstrate how Google online visitors have spent their time in different types of places since the recent Covid-19 health pandemic. Based on the results, visitors throughout Oakland County used their mobile devices at workplaces about -35% less than they had prior to the pandemic. In other words, they are spending about -35% less of their time at offices away from home.

However, Oakland County visitors also are spending only +10% more of their time in residential places – suggesting that 20% are spending more time somewhere other than work or home. Deduction suggests that they might be going to other places to work, such as co-working spaces, public open spaces like parks, and/or cafes.

Additional Google data suggests that visitors triple their time spent at parks and similar types of places during peak summer months. As might be expected, those visits significantly decline during the winter months.

Again, this data points to a probable need and opportunity to create downtown and community amenities that help local workers feel socially connected while operating homebased businesses or otherwise working from home.

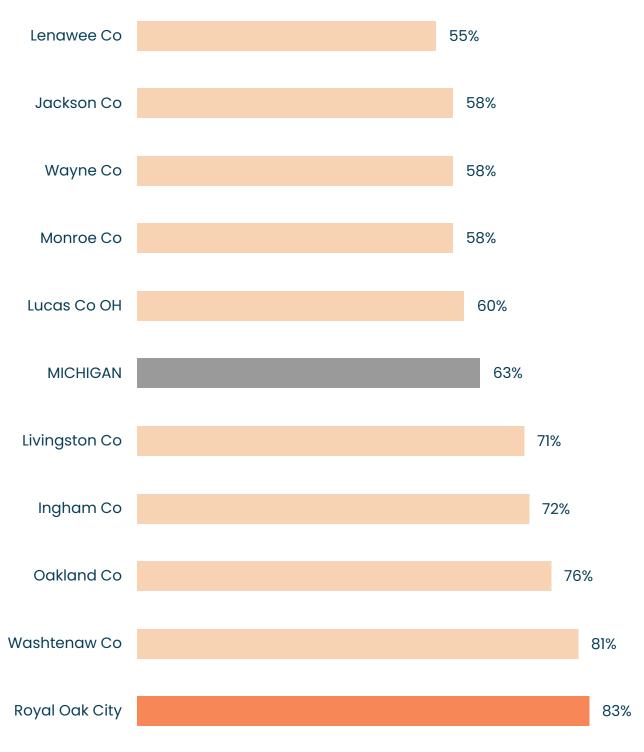


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Section 4-B

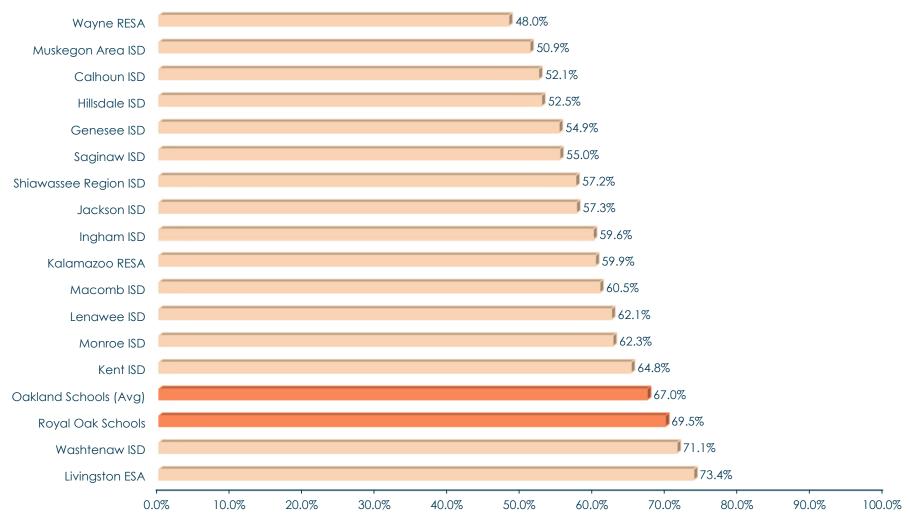
Percent w/Some College | Royal Oak City

% of adults 25+ years w/some college or a degree for selected places, 2021.





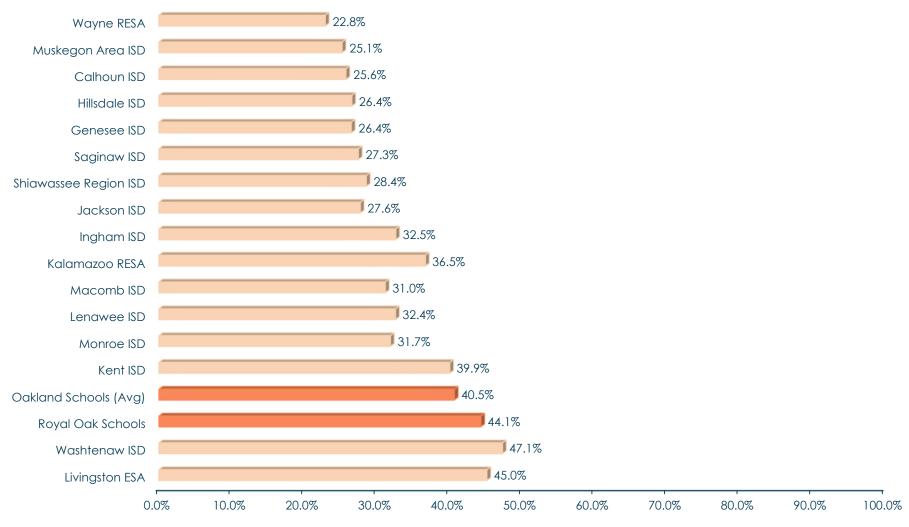
Advanced or Proficient Scores from Preliminary SAT Tests Share of 8th Graders | English Language Arts (ELA) Selected Regional School Districts in Michigan | 2022



Share of Students Testing as Advanced or Proficient in English Language Arts (ELA)

Underlying data provided by the Michigan Department of Education through a portal provided by the Detroit News. Analysis and exhibit prepared by LandUseUSA | Urban Strategies; 2023. All figures are based on PSAT testing for eighth graders only.

Advanced or Proficient Scores from Preliminary SAT Tests Share of 8th Graders | Math, Science, Social Studies Selected Regional School Districts in Michigan | 2022



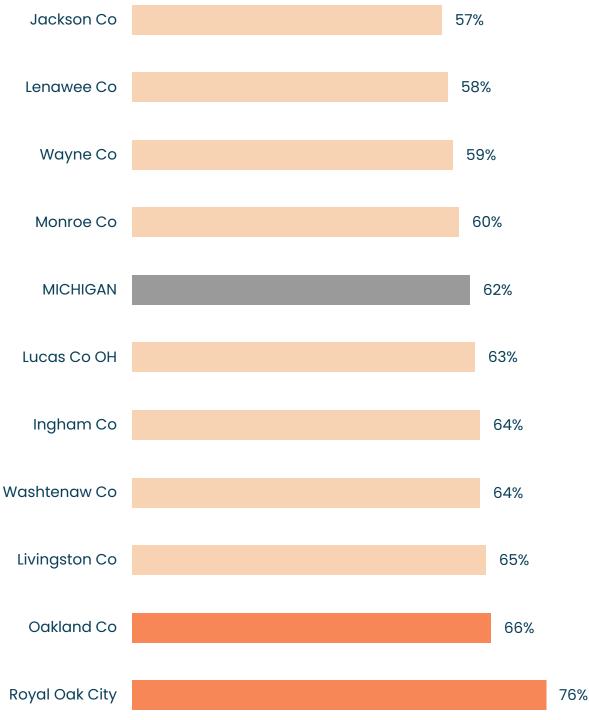
Share of Students Testing as Advanced or Proficient in Math, Science, Social Studies

Underlying data provided by the Michigan Department of Education through a portal provided by the Detroit News. Analysis and exhibit prepared by LandUseUSA | Urban Strategies; 2023. All figures are based on PSAT testing for eighth graders only.

Section 4-C

% Labor Force Participation | Royal Oak

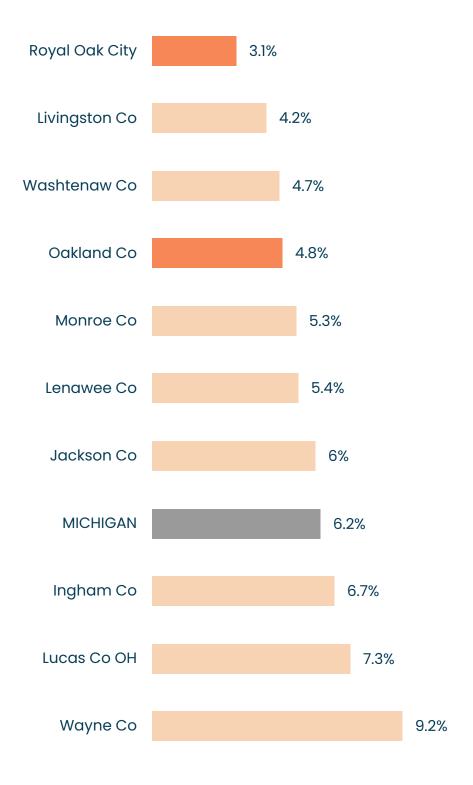
Percent of adults 16+ years actively participating in the labor force, 2021.





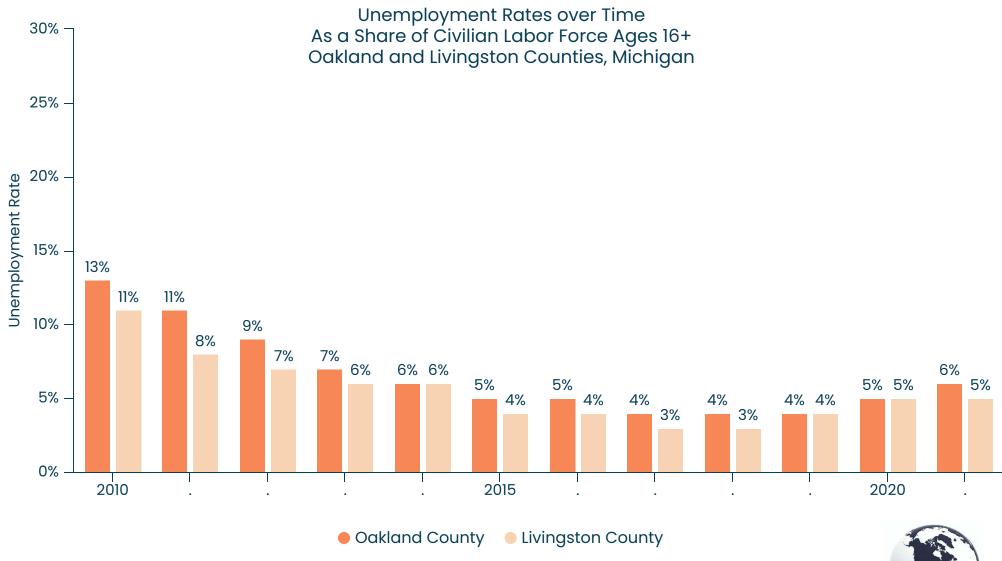
Percent Unemployment | Royal Oak City

Percent of the adult labor force ages 16+ years that is unemployed, 2021.





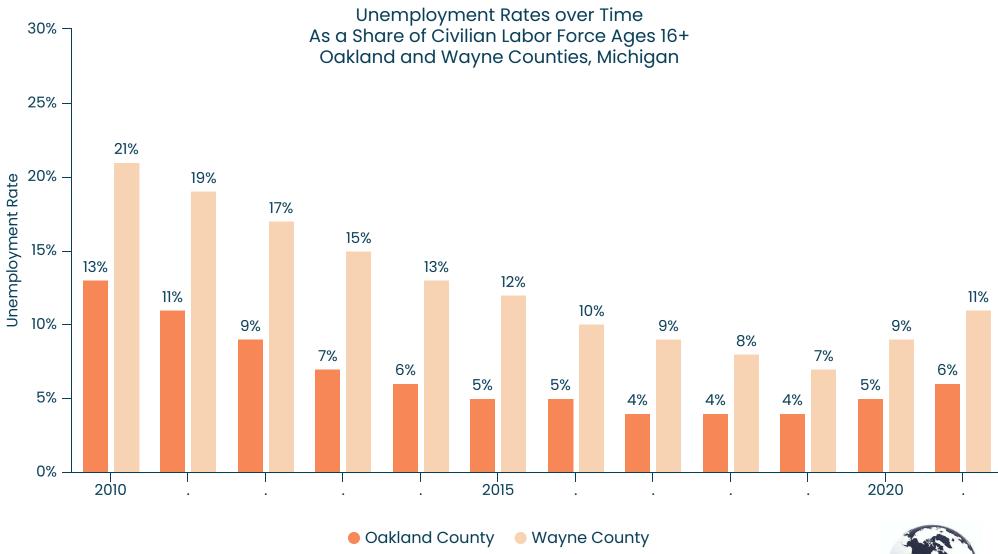
Unemployment Rates | Oakland and Livingston Cos



Source: Underlying data by the American Community Survey with 1-year and 5-year estimates through 2021. Analysis & exhibit prepared by LandUseUSA | Urban Strategies in collaboration with DPZ CoDesign; 2023.



Unemployment Rates | Oakland and Wayne Cos

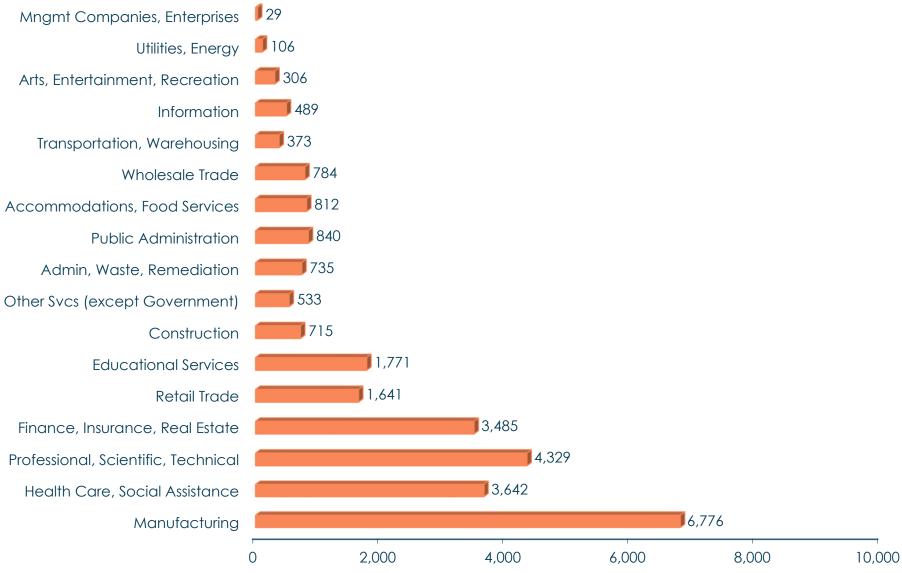


Source: Underlying data by the American Community Survey with 1-year and 5-year estimates through 2021. Analysis & exhibit prepared by LandUseUSA | Urban Strategies in collaboration with DPZ CoDesign; 2023.

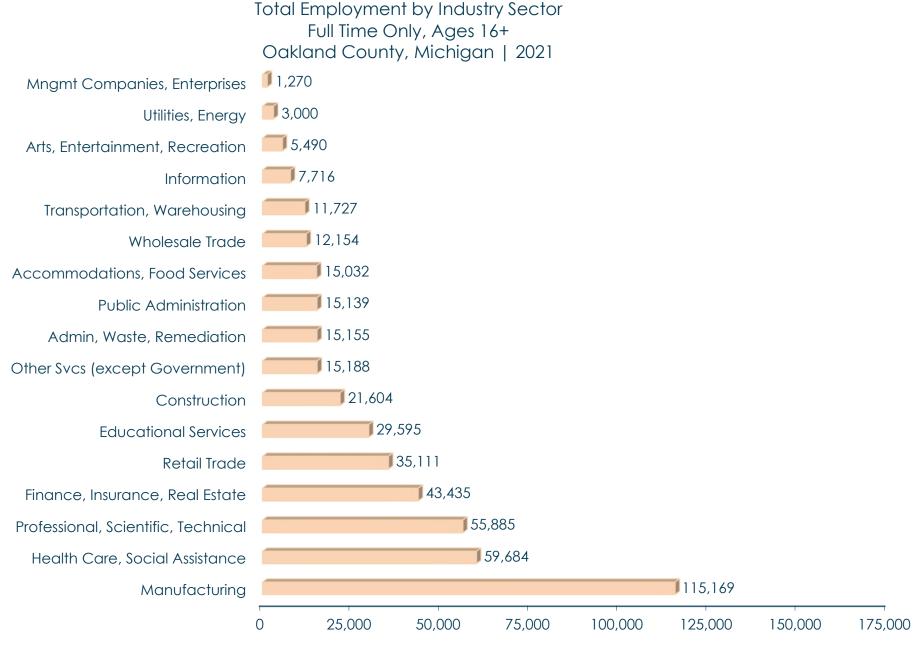


Section 4-D

Total Employment by Industry Sector
Full Time Only, Ages 16+
The City of Royal Oak, Michigan | 2021

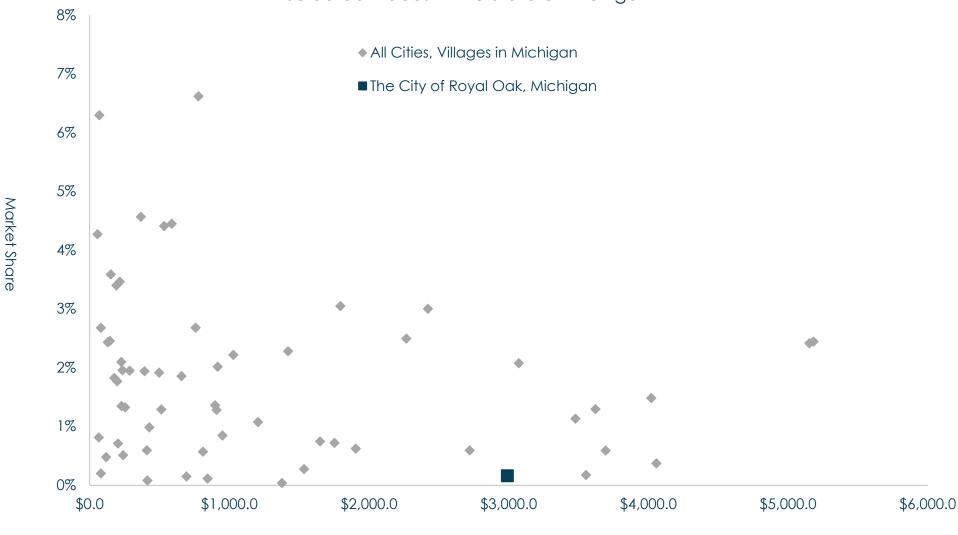


Source: Underlying data provided by the Southeast Michigan Council of Governments. Exhibit and analysis prepared by LandUseUSA | Urban Strategies in collaboration with DPZ CoDesign; 2023.



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Market Share v. Total Personal Income Hotels, Overnight Accommodations | NAICS 721 Selected Places in the State of Michigan



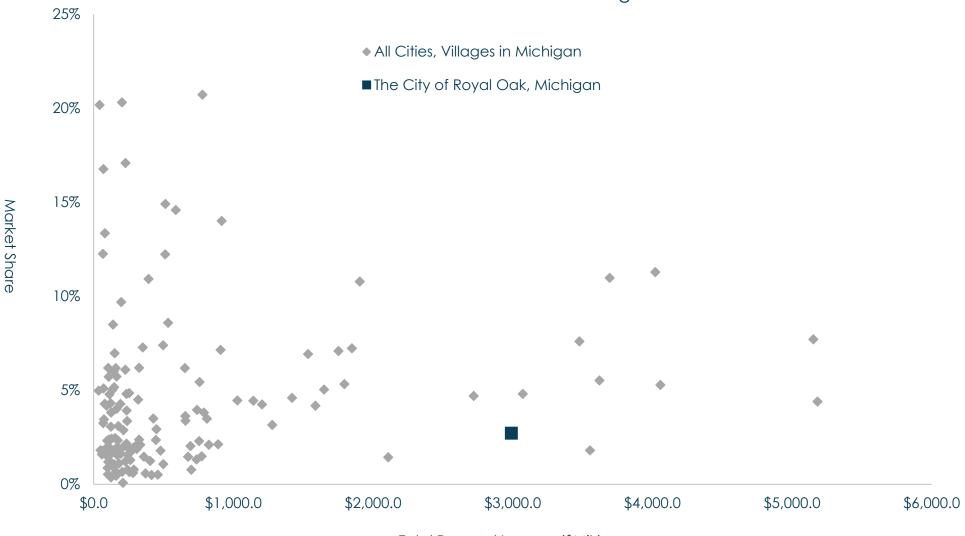
Total Personal Income (\$Mil.)

Market Share v. Total Personal Income Total Retail Trade | NAICS 44-45 Selected Places in the State of Michigan



Total Personal Income (\$Mil.)

Market Share v. Total Personal Income Real Estate, Rental, Leasing | NAICS 53 Selected Places in the State of Michigan



Total Personal Income (\$Mil.)





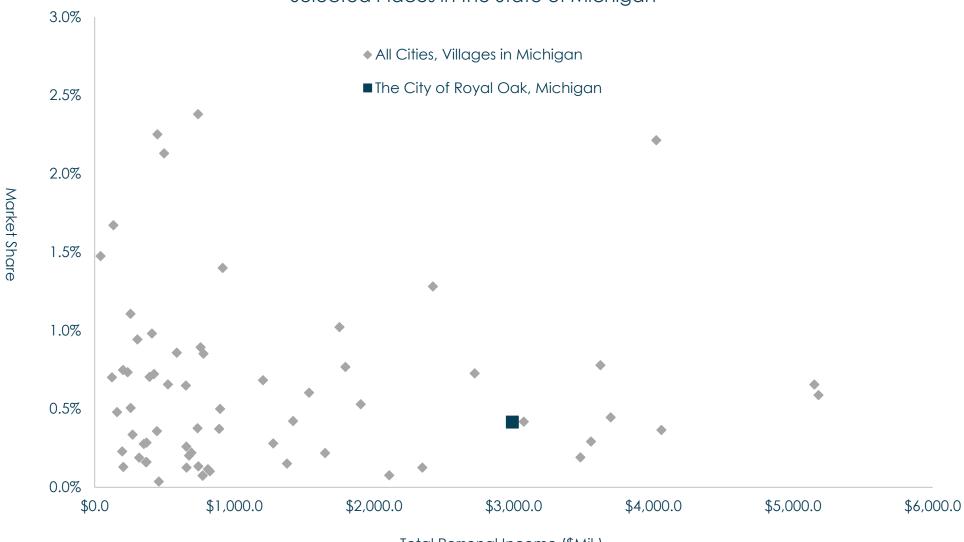
Total Personal Income (\$Mil.)

Market Share v. Total Personal Income Other Services excluding Public Admin | NAICS 81 Selected Places in the State of Michigan



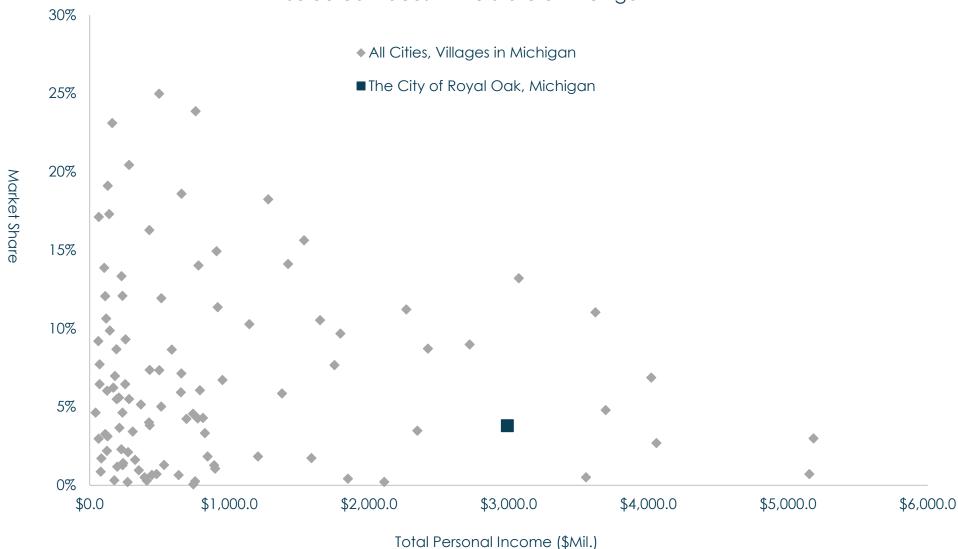
Total Personal Income (\$Mil.)





Total Personal Income (\$Mil.)

Market Share v. Total Personal Income Transportation, Warehousing | NAICS 48-49 Selected Places in the State of Michigan

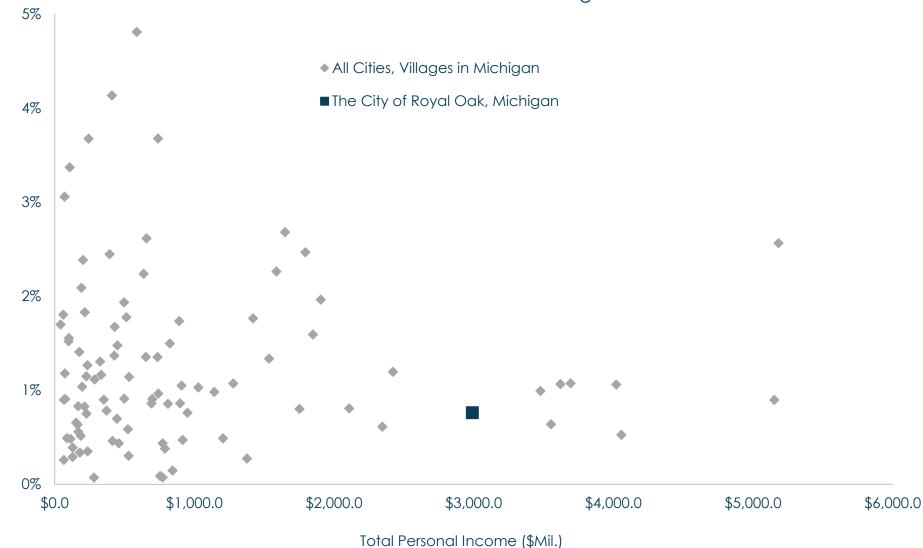


Market Share v. Total Personal Income Admin, Support, Waste, Remediation | NAICS 56 Selected Places in the State of Michigan



Total Personal Income (\$Mil.)



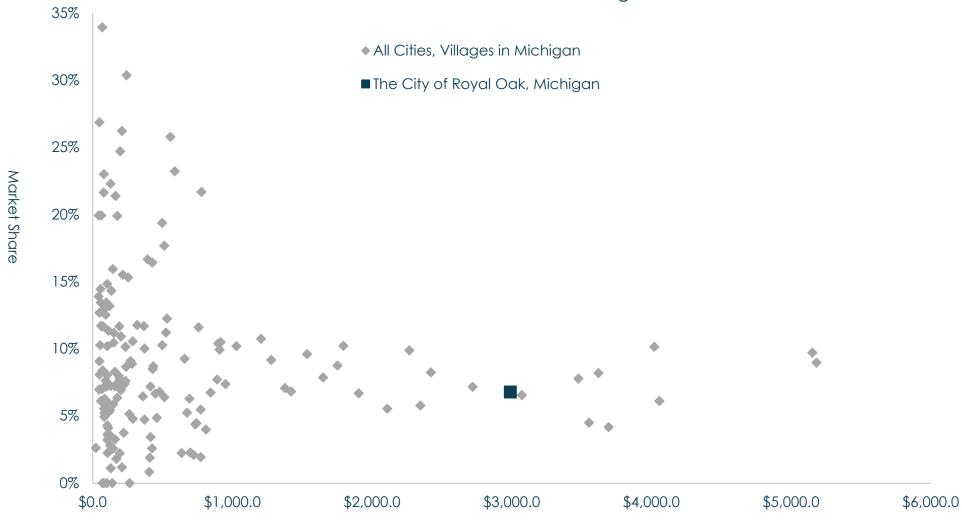


Market Share





Market Share v. Total Personal Income Restaurants, Drinking Establishments | NAICS 722 Selected Places in the State of Michigan



Total Personal Income (\$Mil.)

Market Share v. Total Personal Income Health Care, Social Assistance | NAICS 62 Selected Places in the State of Michigan



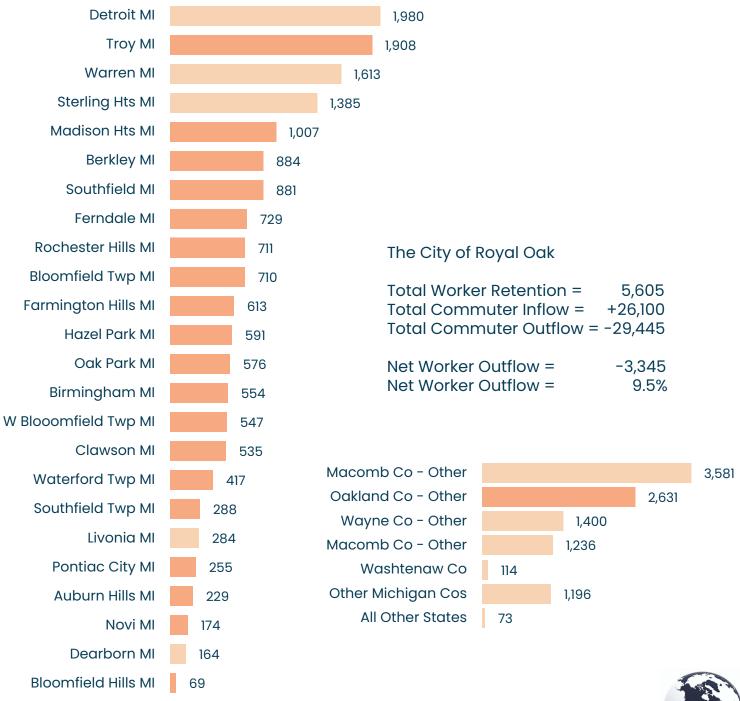
Total Personal Income (\$Mil.)

Section 4-E

Origins of Worker Inflow | Royal Oak

Origins of local workers commuting into the City of Royal Oak for jobs in 2015.

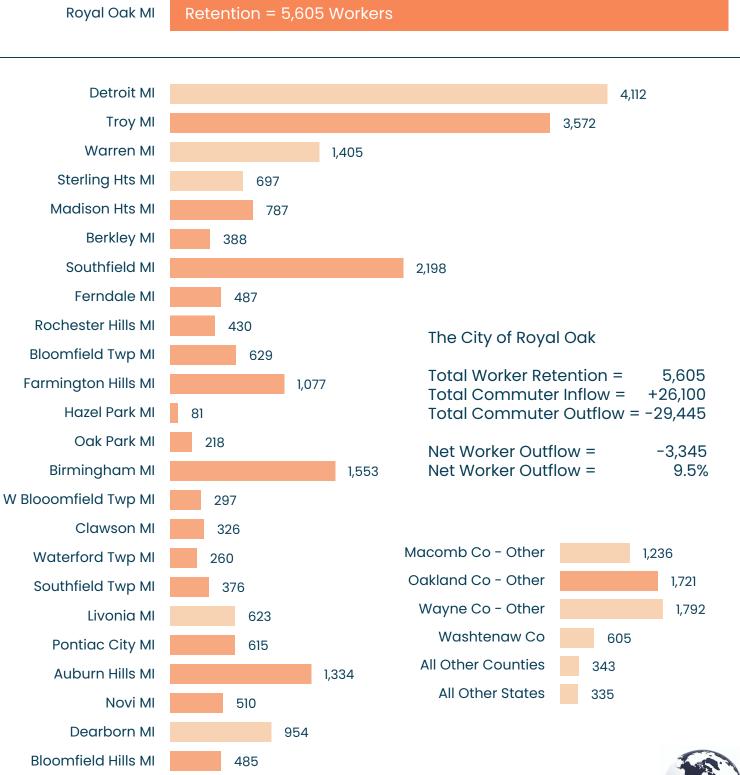
Royal Oak MI Retention = 5,605 Workers





Origins of Worker Outflow | Royal Oak

Destinations of local commuters working outside of the City of Royal Oak in 2015.



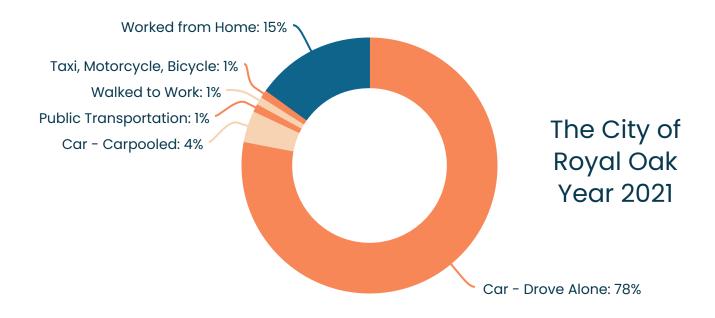


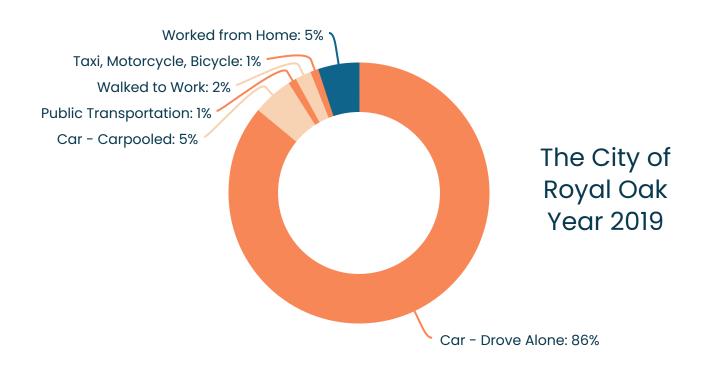
Underlying data by the American Community Survey with 5-year estimates through 2015. Analysis and exhibit prepared by LandUseUSA | Urban Strategies in collaboration with DPZ CoDesign; 2023.

Section 4-F

Share Working from Home | Royal Oak

Working from home is one indicator of the social and place impact of Covid-19.



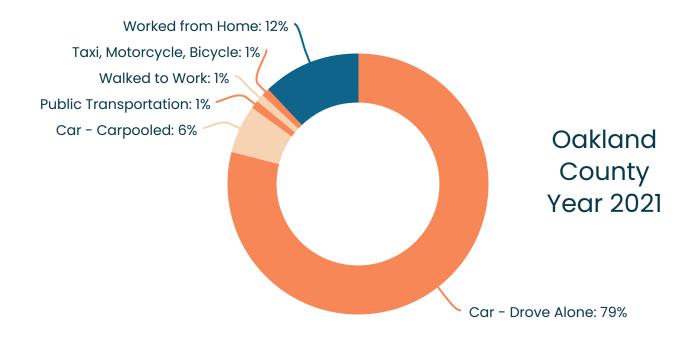


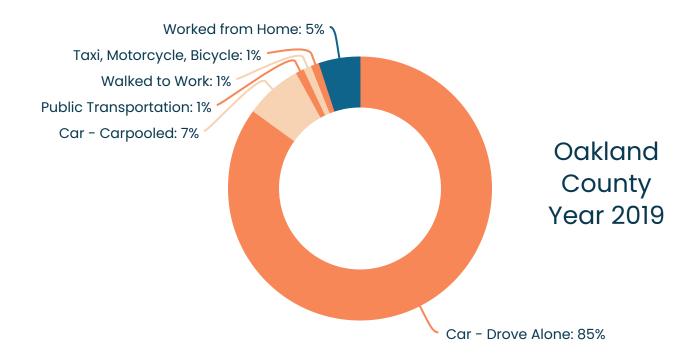




Share Working from Home | Oakland Co

Working from home is one indicator of the social and place impact of Covid-19.



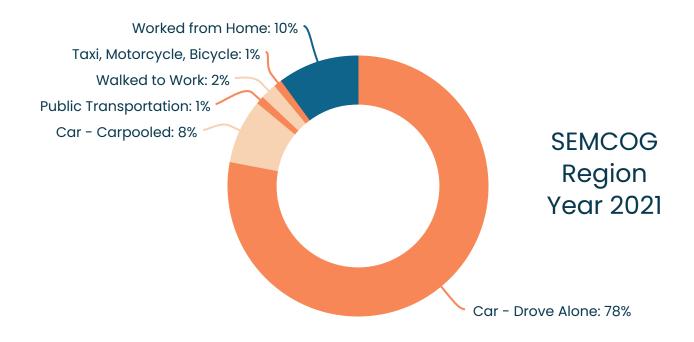


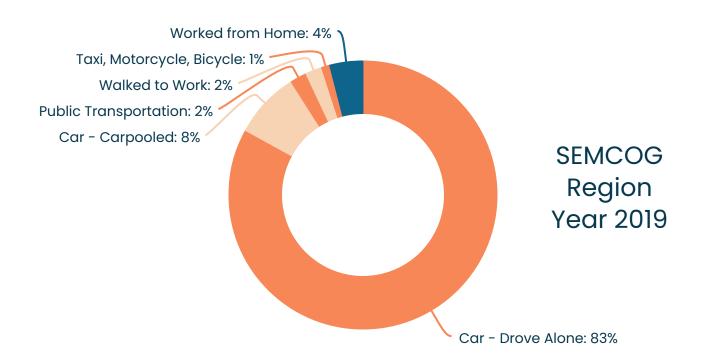
Underlying data provided by the American Community Survey with five-year estimates through 2021. Represents the share of workers ages 16 and older. Analysis & exhibit prepared by LandUseUSA | Urban Strategies in collaboration with DPZ CoDesign; 2022 - 2023.



Share Working from Home | SEMCOG

Working from home is one indicator of the social and place impact of Covid-19.

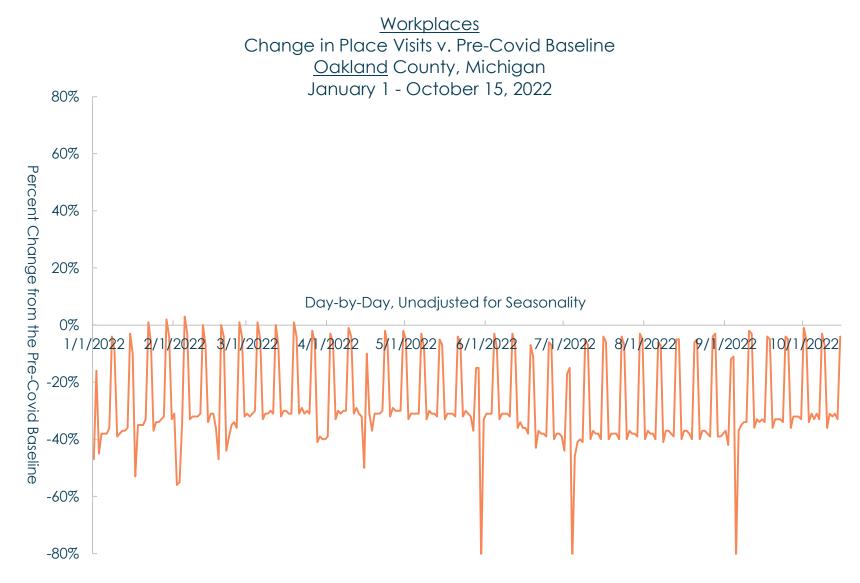




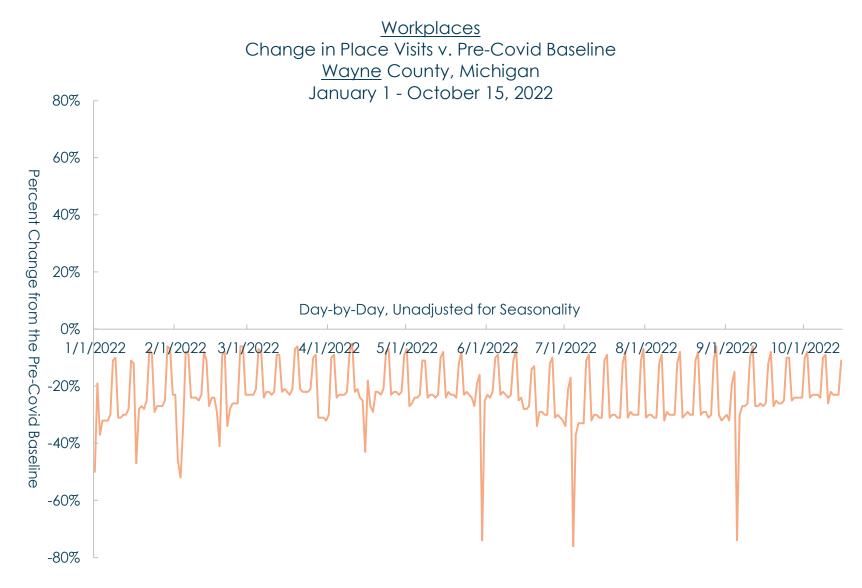
Underlying data provided by the American Community Survey with five-year estimates through 2021. Represents the share of workers ages 16 and older. Analysis & exhibit prepared by LandUseUSA | Urban Strategies in collaboration with DPZ CoDesign; 2022 - 2023.



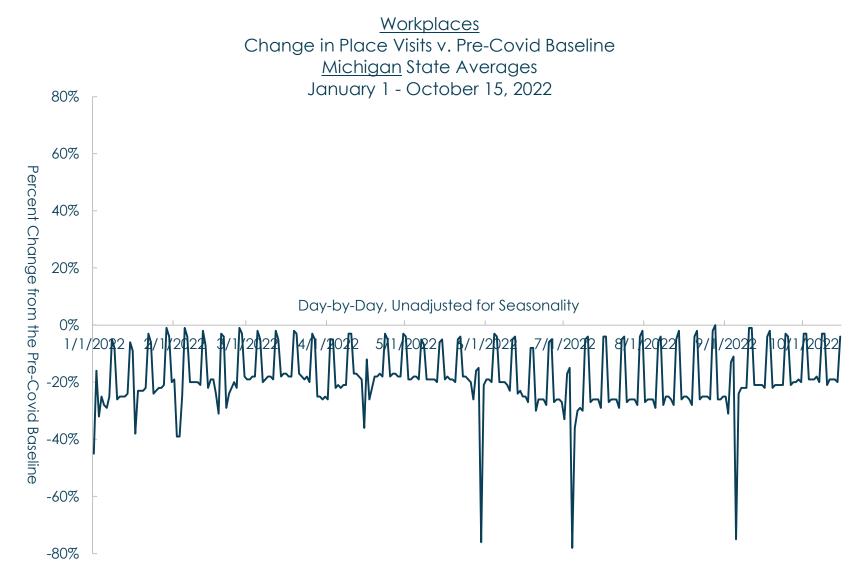
Section 4-G



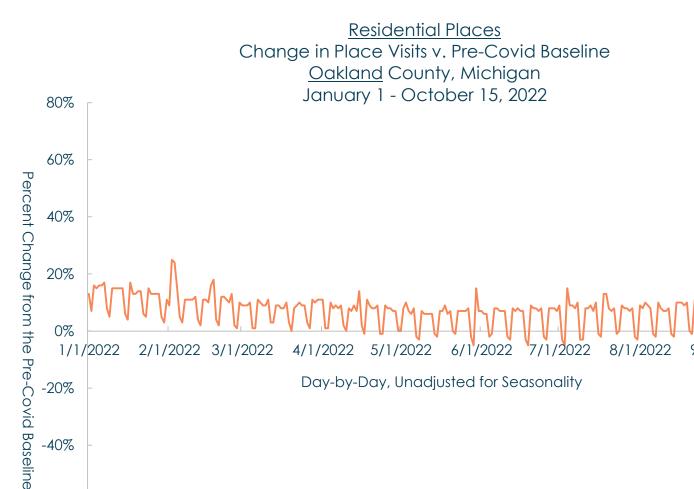
This data shows how visitors spent time in workplaces compared to the baseline days, and based on data that Google garners from handheld devices like mobile phones and ipads. The baseline day is based on the normal or median time spent between January 3 and February 6, 2020 (i.e., over five weeks preceding the economic crisis brought on by the Covid-19 pandemic). Source: Google Community Mobility Reports through October 2022; analysis and exhibit prepared by LandUseUSA | Urban Strategies; 2023.



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0%

-20%

-40%

-60%

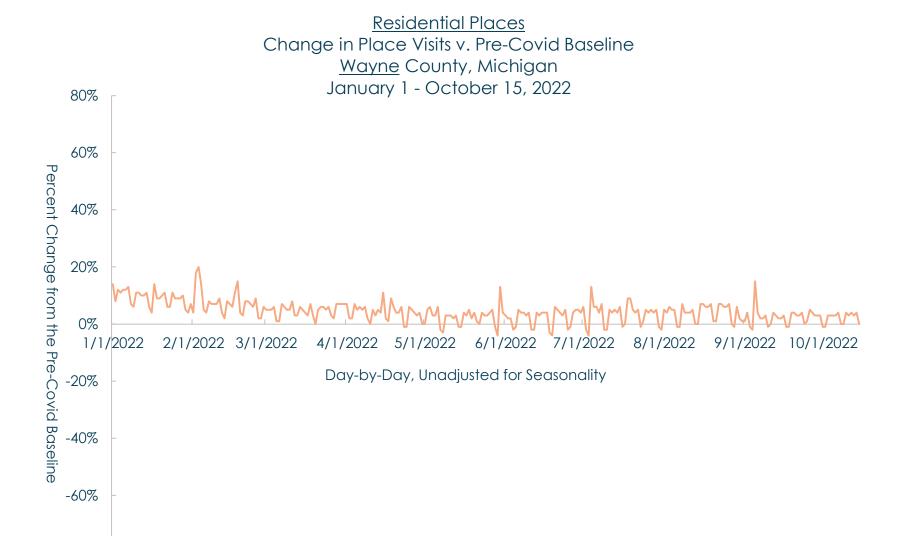
-80%

1/1/2022

2/1/2022 3/1/2022



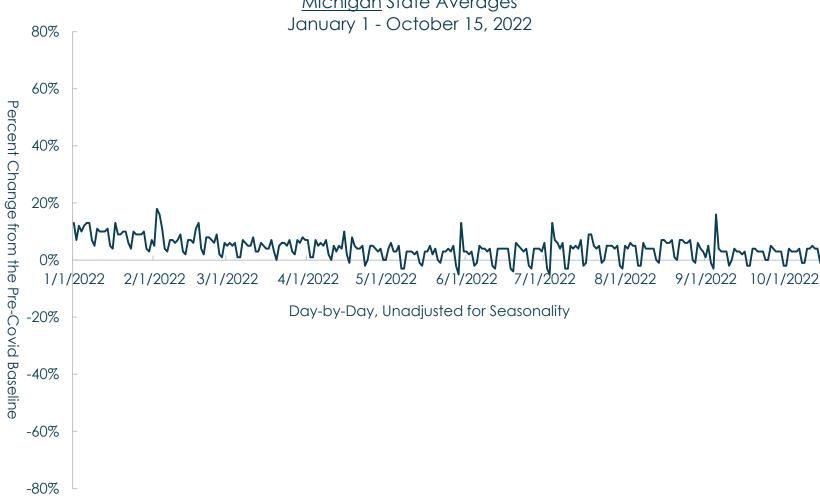
Day-by-Day, Unadjusted for Seasonality



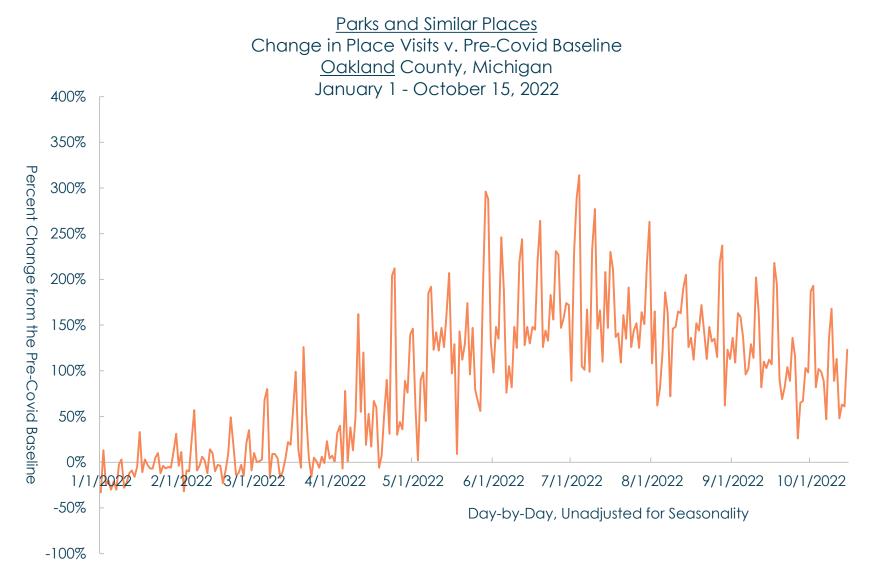
This data shows how visitors spent time in residential places compared to the baseline days, and based on data that Google garners from handheld devices like mobile phones and ipads. The baseline day is based on the normal or median time spent between January 3 and February 6, 2020 (i.e., over five weeks preceding the economic crisis brought on by the Covid-19 pandemic). Source: Google Community Mobility Reports through October 2022; analysis and exhibit prepared by LandUseUSA | Urban Strategies; 2023.

-80%

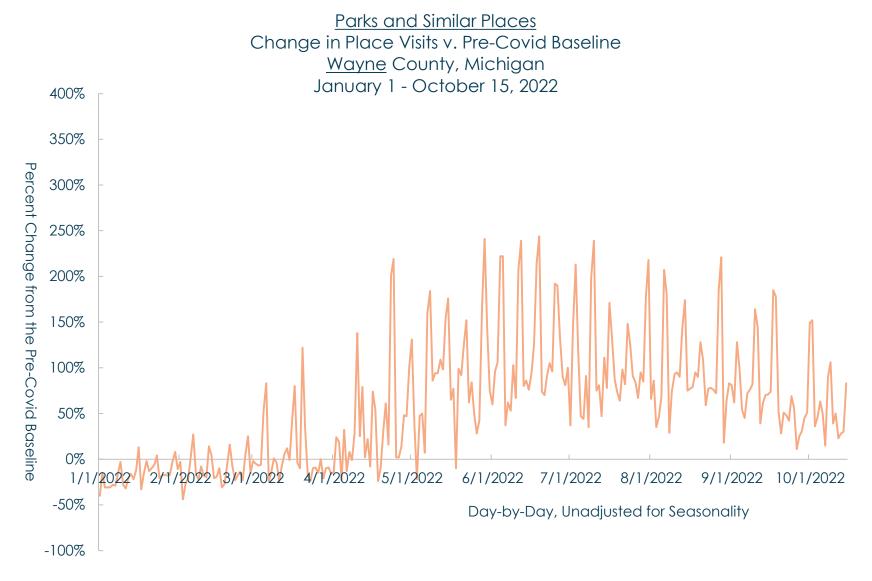




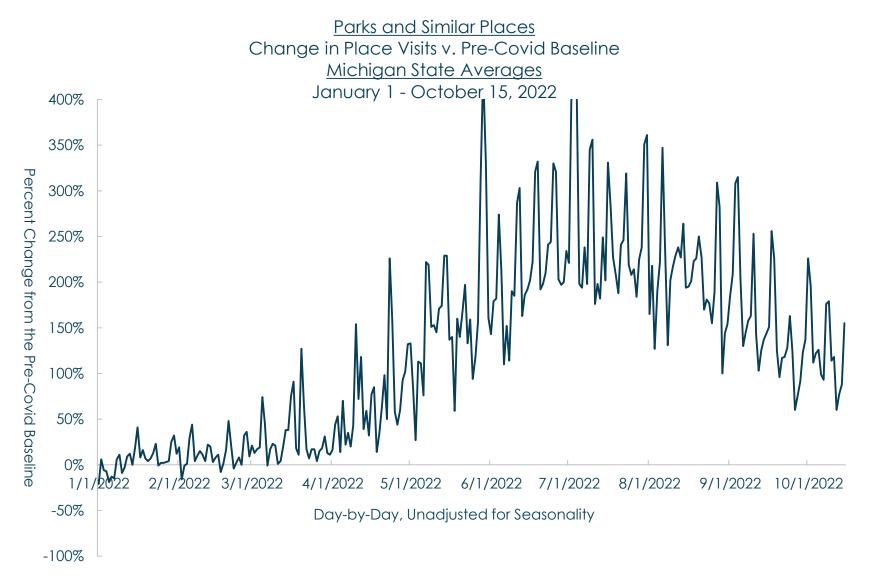
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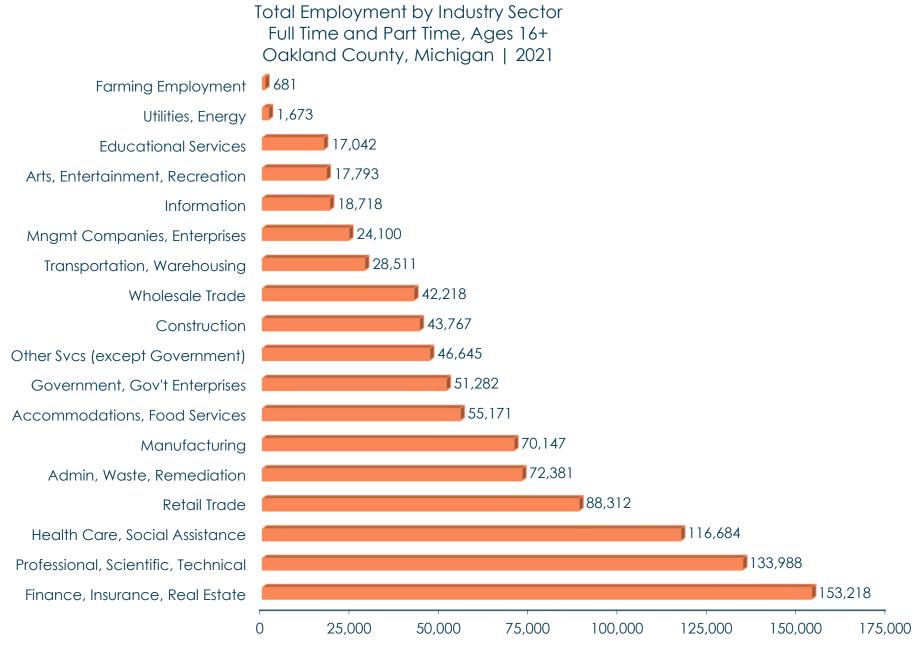


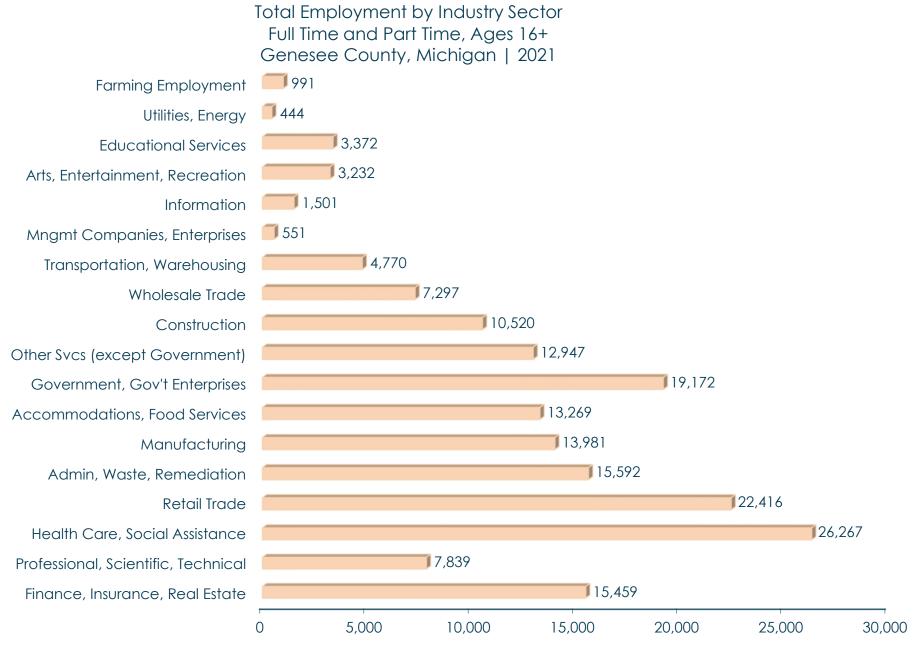
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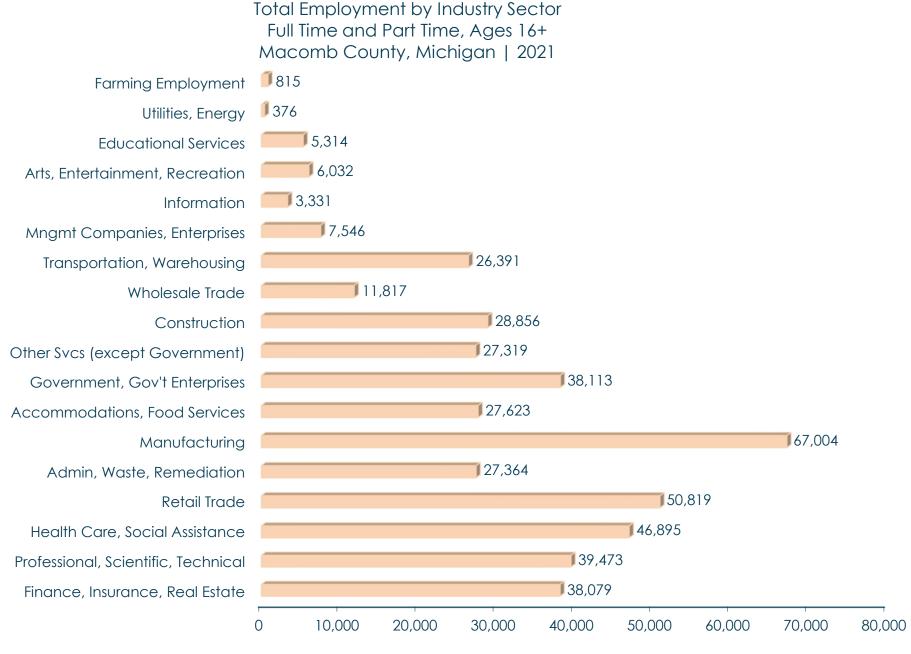


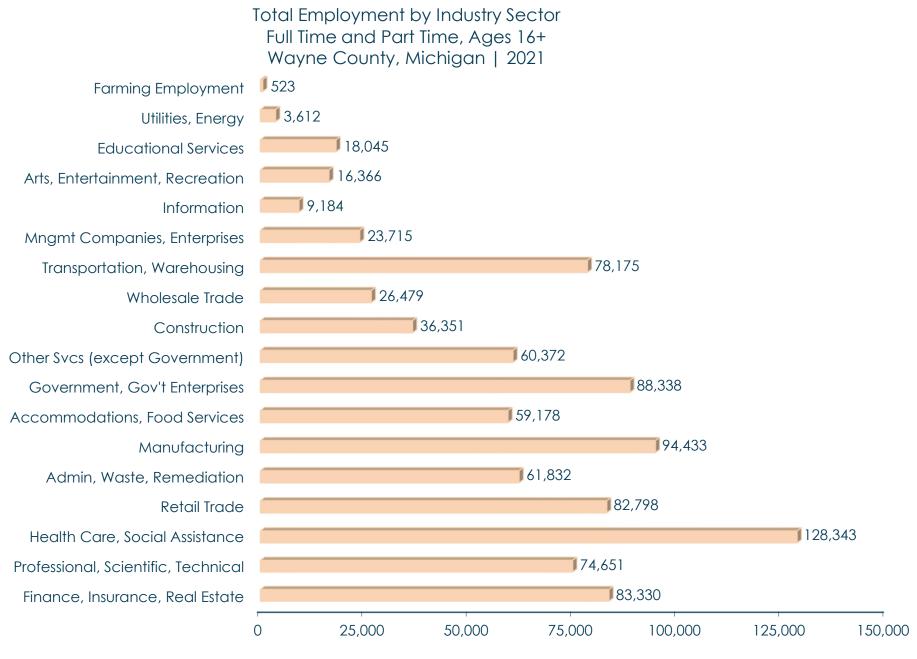
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Section 4-H

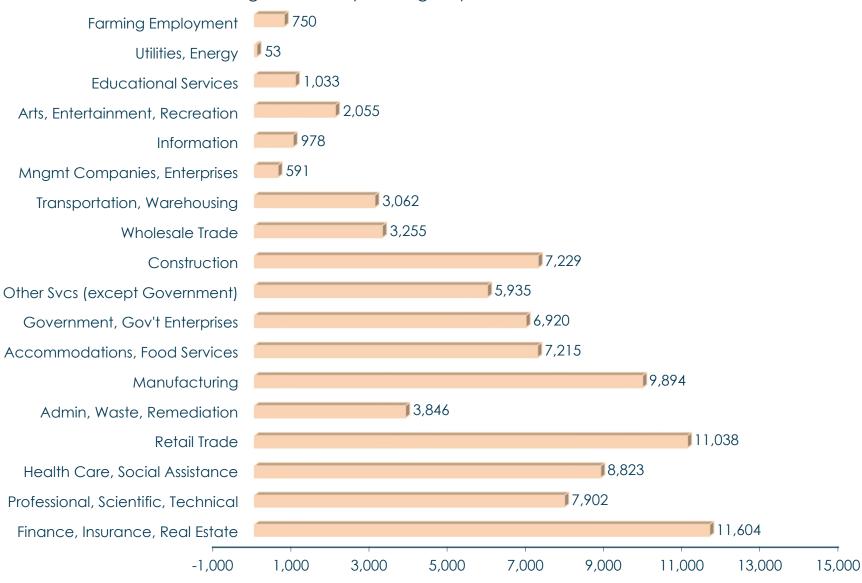


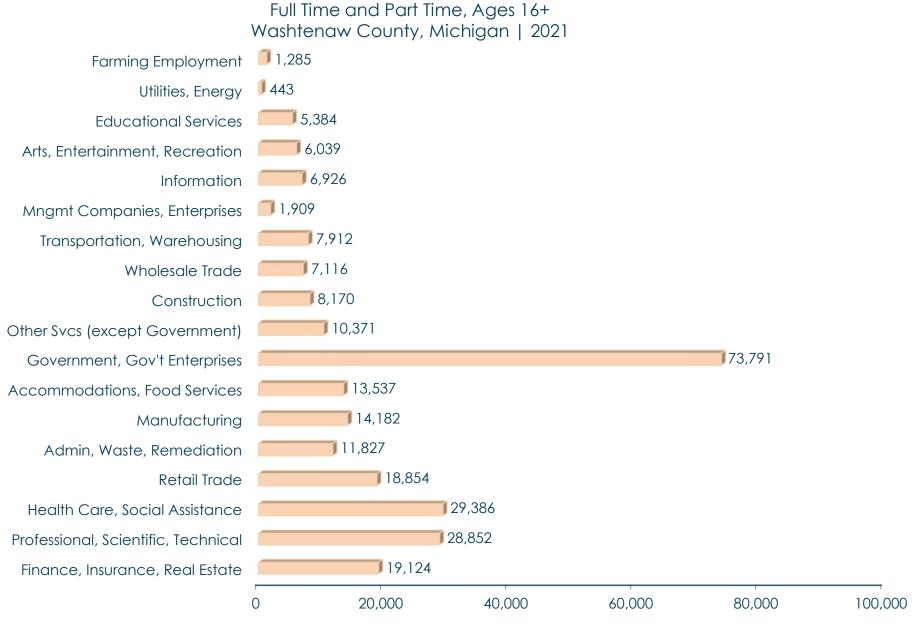






Total Employment by Industry Sector Full Time and Part Time, Ages 16+ Livingston County, Michigan | 2021

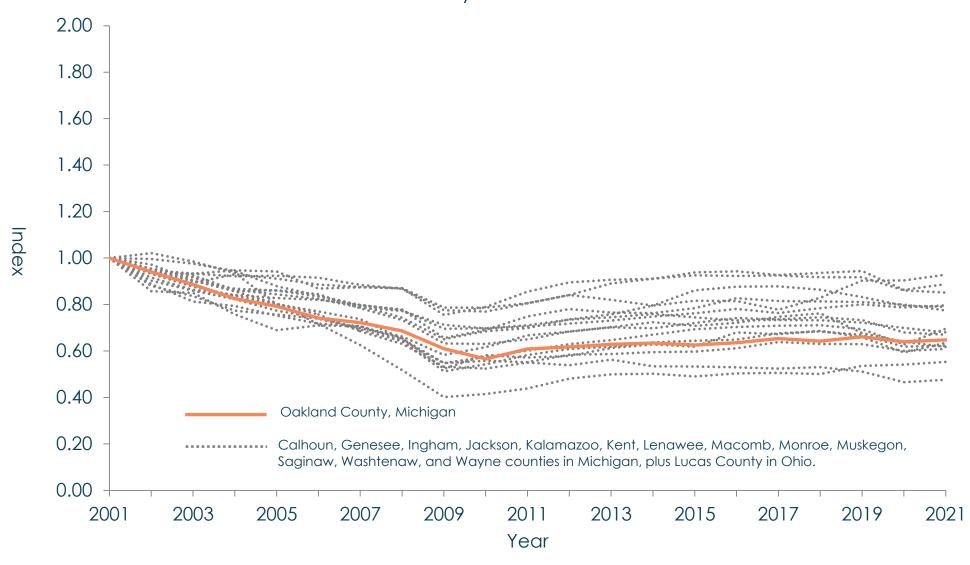




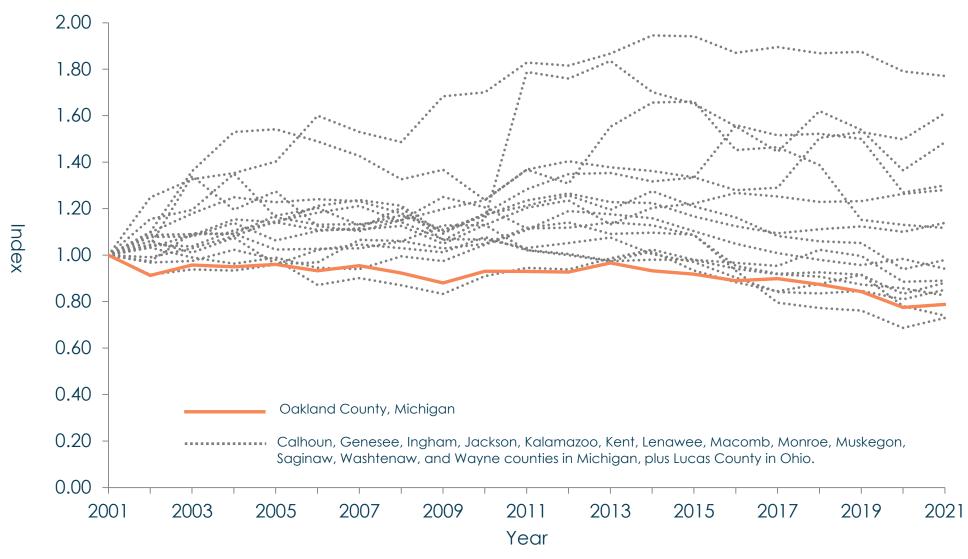
Total Employment by Industry Sector

Section 4-I

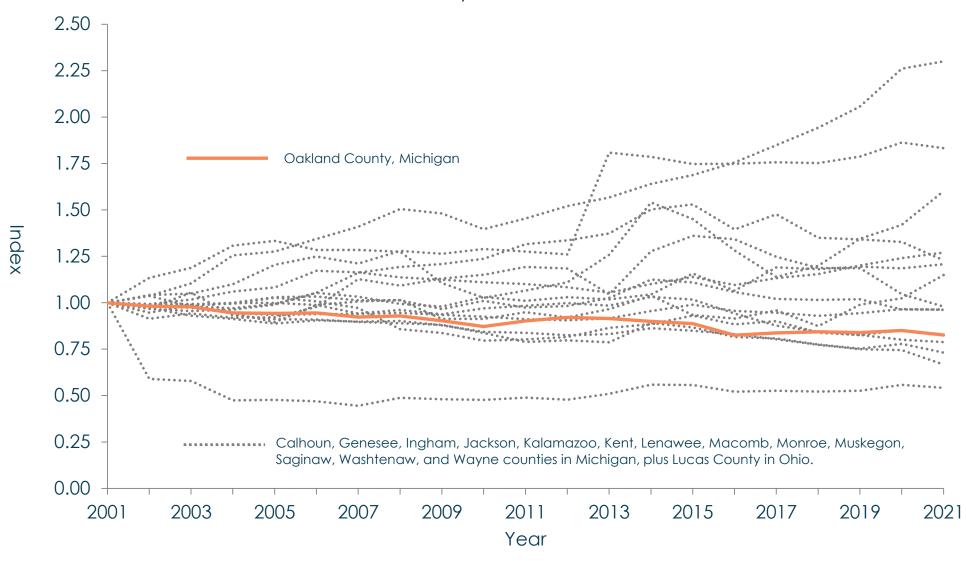
Manufacturing
Change in Share of Total Employment (Index)
Oakland County v. Selected Others



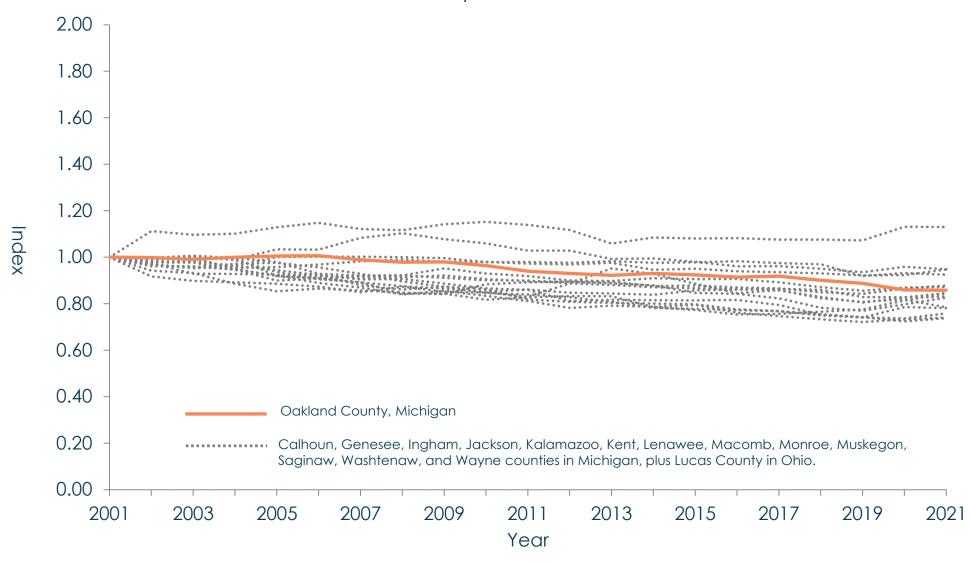
Admin Support, Waste Mngmt, Remediation Change in Share of Total Employment (Index) Oakland County v. Selected Others



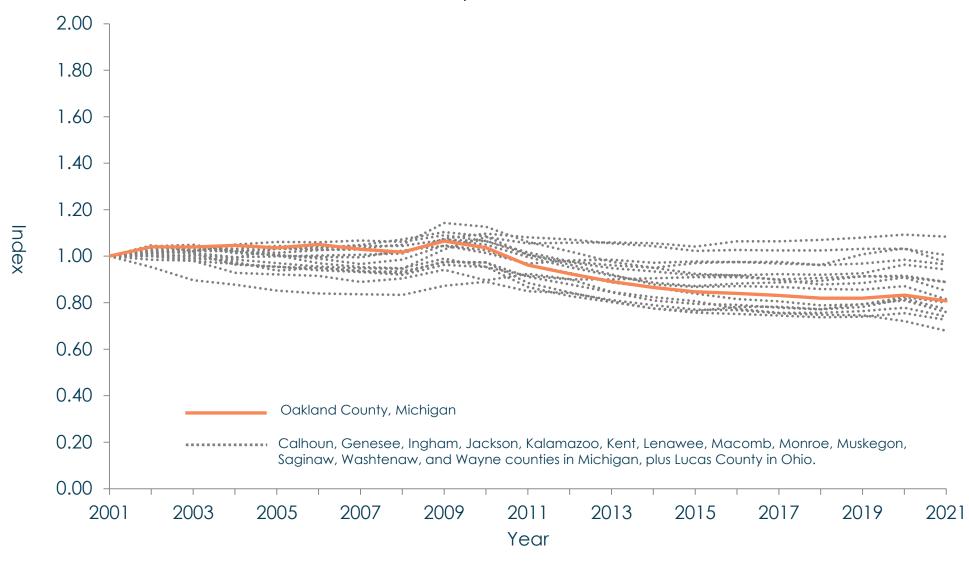
Wholesale Trade
Change in Share of Total Employment (Index)
Oakland County v. Selected Others



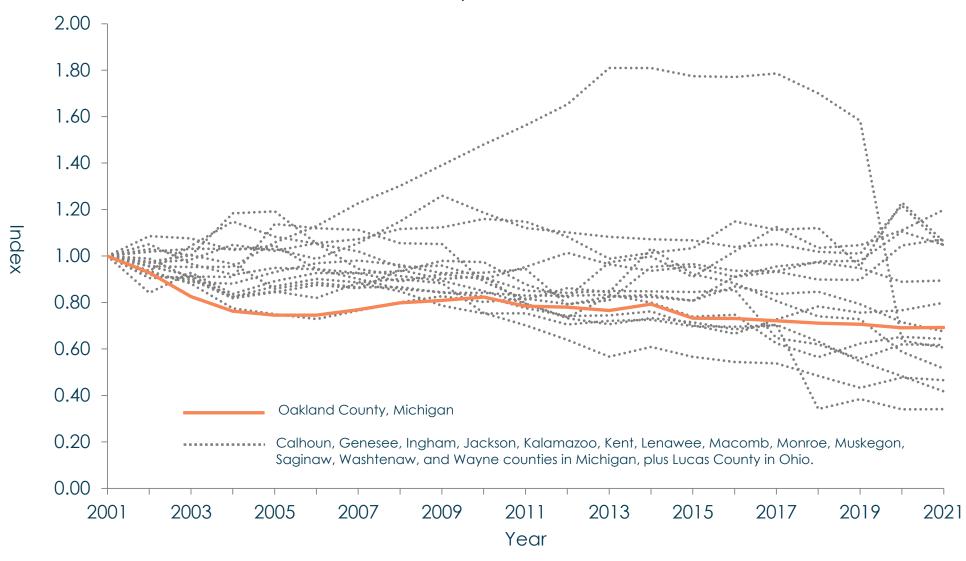
Retail Trade
Change in Share of Total Employment (Index)
Oakland County v. Selected Others



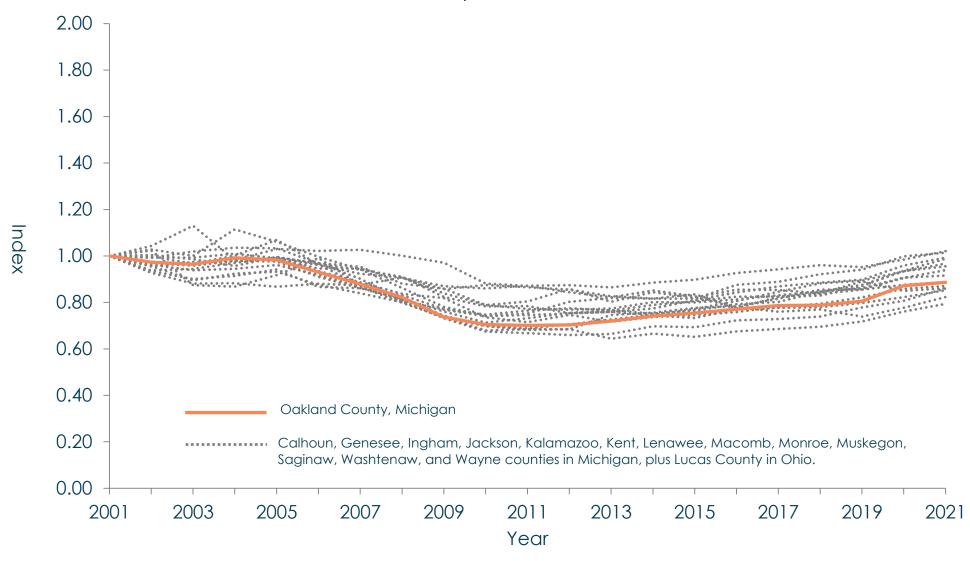
Government, Gov't Enterprises Change in Share of Total Employment (Index) Oakland County v. Selected Others



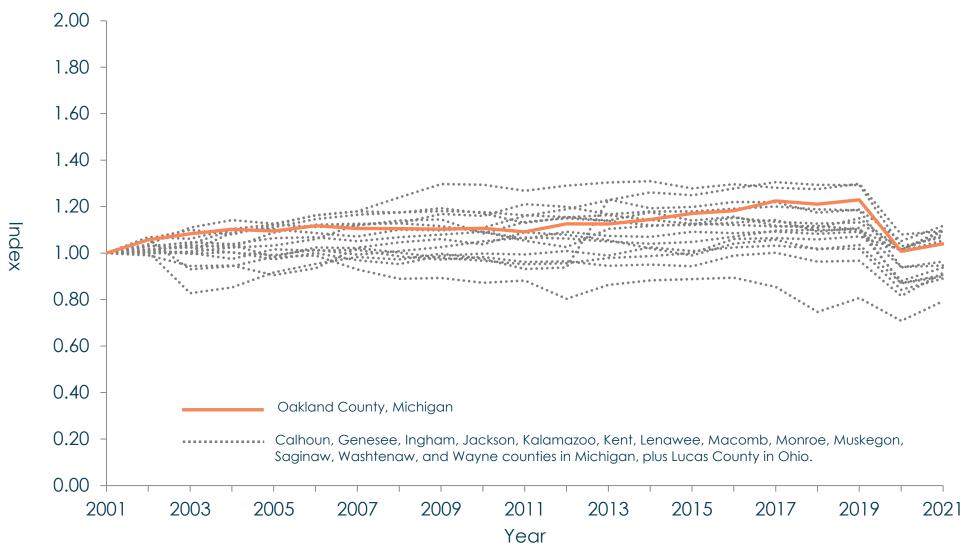
Information
Change in Share of Total Employment (Index)
Oakland County v. Selected Others



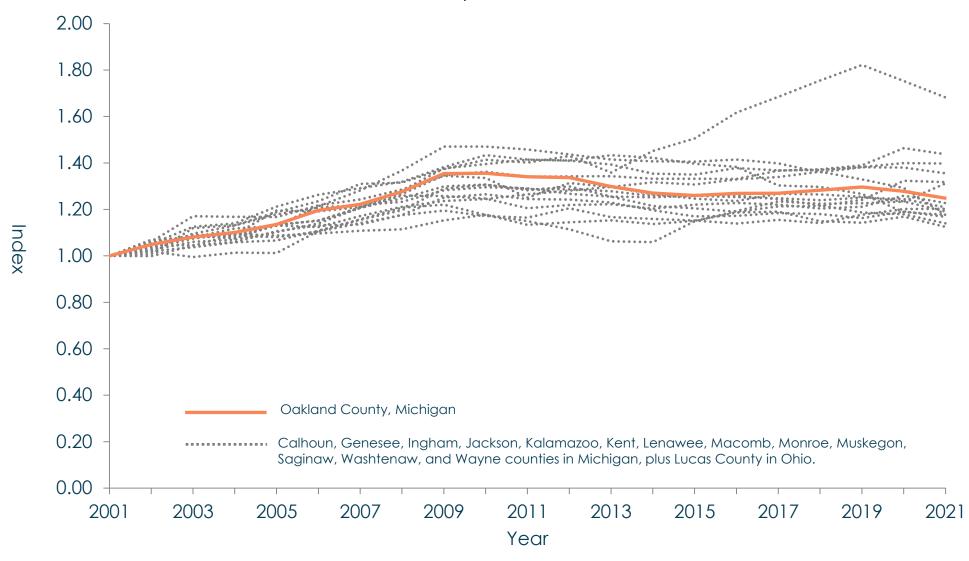
Construction Industry
Change in Share of Total Employment (Index)
Oakland County v. Selected Others



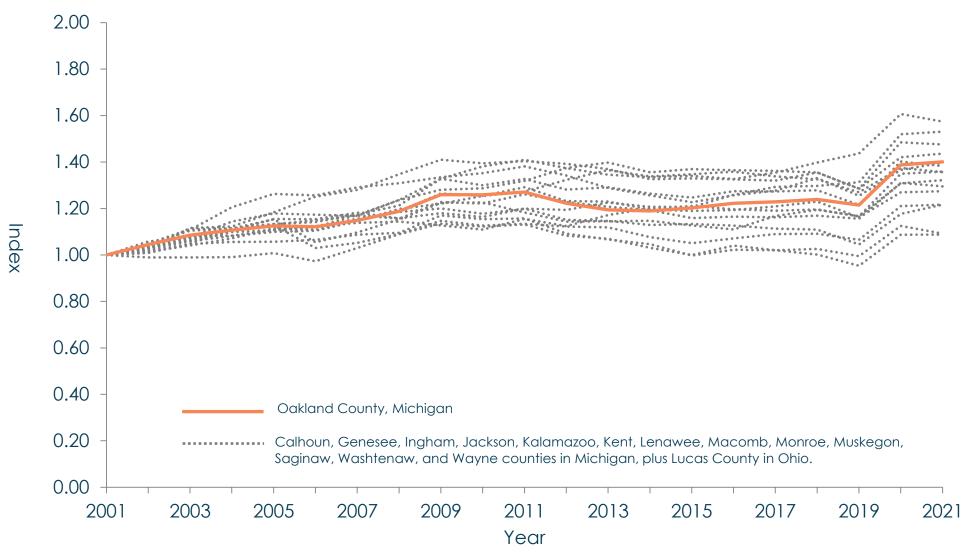




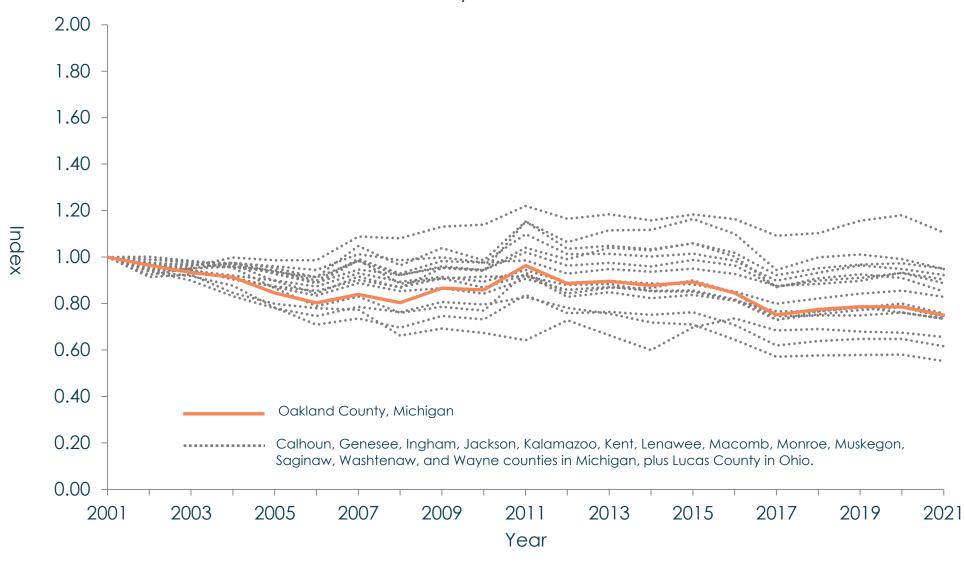
Health Care, Social Assistance Change in Share of Total Employment (Index) Oakland County v. Selected Others



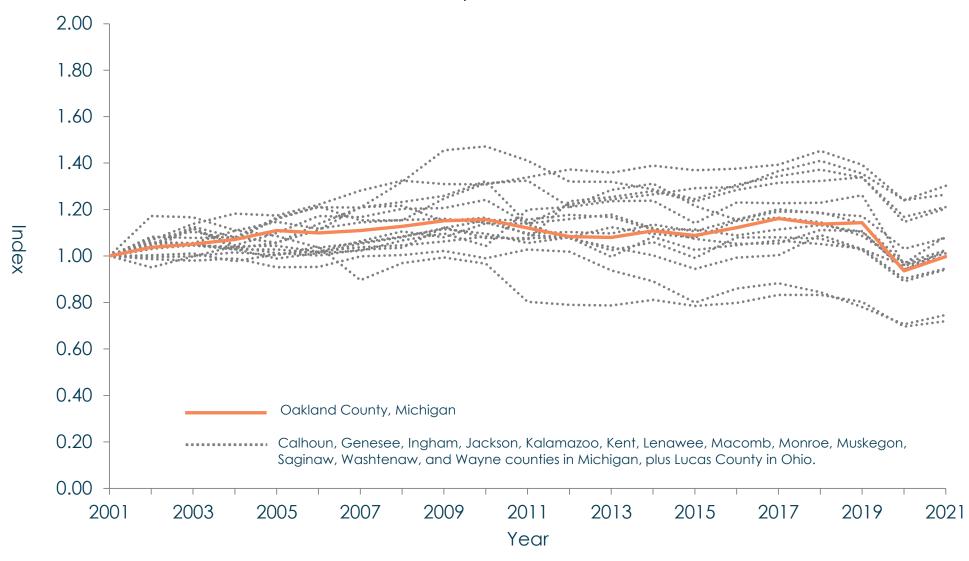
FIRE: Finance, Insurance, Real Estate
Change in Share of Total Employment (Index)
Oakland County v. Selected Others



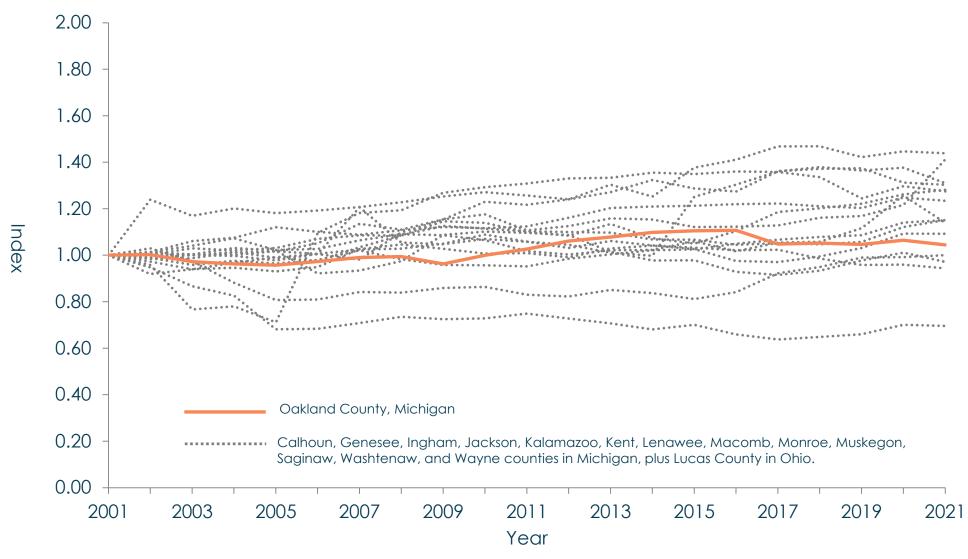
Farming
Change in Share of Total Employment (Index)
Oakland County v. Selected Others



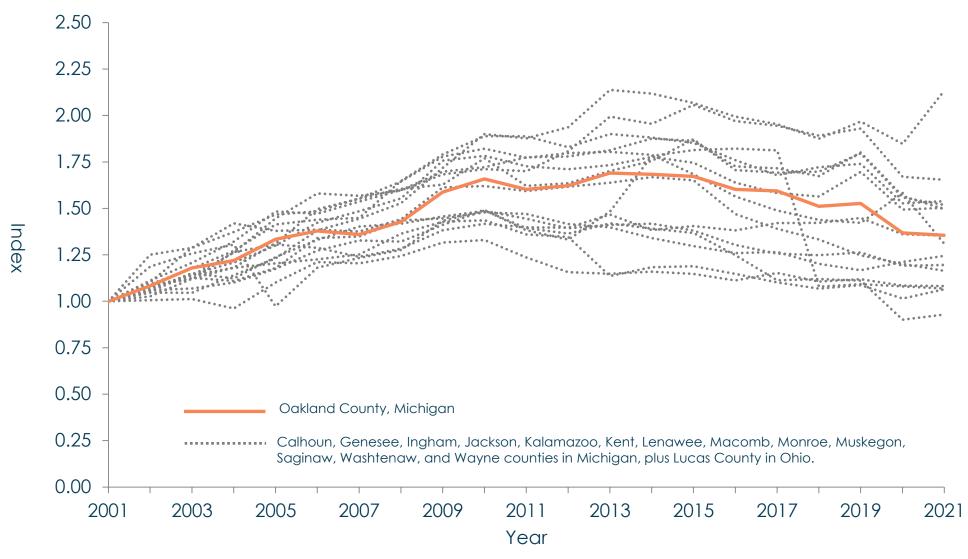
Arts, Entertainment, Recreation Change in Share of Total Employment (Index) Oakland County v. Selected Others



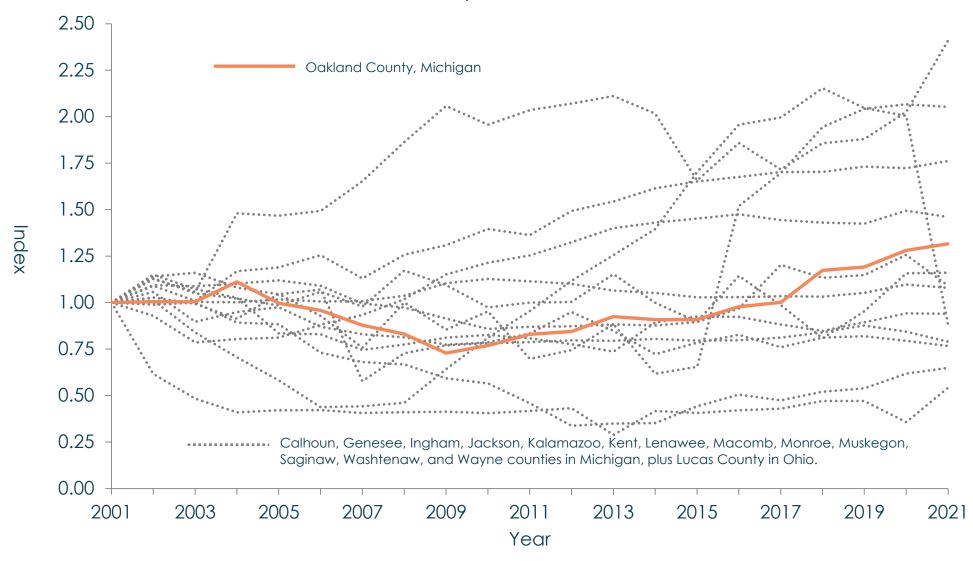
Professional, Scientific, Technical Services Change in Share of Total Employment (Index) Oakland County v. Selected Others



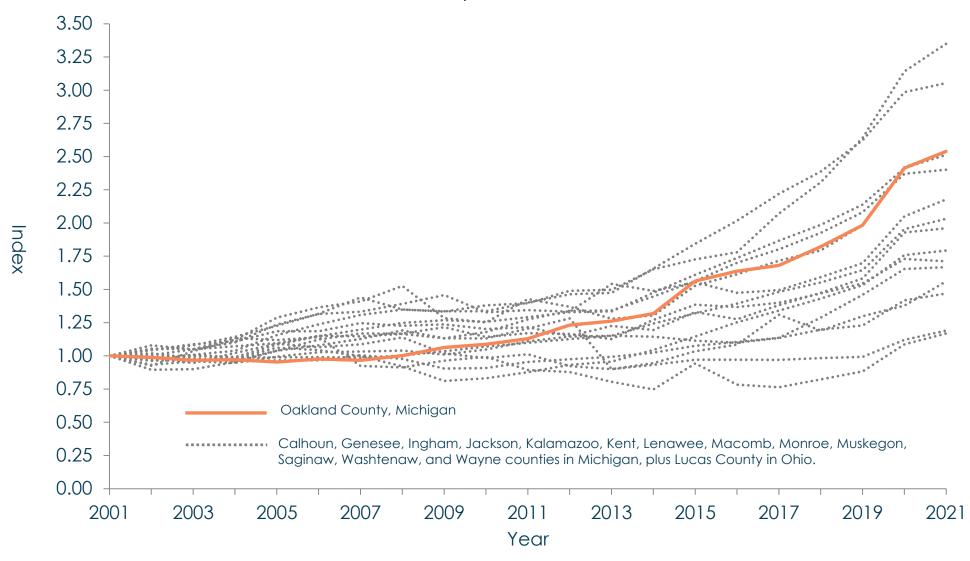
Educational Services
Change in Share of Total Employment (Index)
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Management of Companies and Enterprises Change in Share of Total Employment (Index) Oakland County v. Selected Others



Transportation, Warehousing
Change in Share of Total Employment (Index)
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Utilities, Energy Change in Share of Total Employment (Index) Oakland County v. Selected Others

