Growth Trends Report

Through December 31, 2023

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Springfield, Missouri 65807



OZARKS TRANSPORTATION ORGANIZATION

A METROPOLITAN PLANNING ORGANIZATION

Disclaimer

The information compiled in this report was retrieved from a variety of sources. Permit data and employment information were derived from federal and local administrative records and should be considered fairly reliable.

It is important to note that demographic information from the American Community Survey is derived from sampling methods used by the U.S. Census Bureau and is reported with a margin of error. For the sake of presentation, margins of error are not included in the tables and charts.

To account for margins of error, five-year comparisons of ACS data and tests for statistical differences are addressed in the narrative sections where appropriate.

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Introduction

Each year, the Ozarks
Transportation Organization
(OTO) analyzes residential
construction activity and
demographic information for the
MPO study area and member
jurisdictions.

This report is comprised of three sections that include tables, charts, and maps along with narrative descriptions of noteworthy trends within the OTO.

This year's report includes information from the U.S. Census Local Employment and Household Dynamics (LEHD) data for the Springfield, MO MSA at the county level.

Residential Units

Single-family and multi-family residential construction and demolition activity for each jurisdiction within the OTO study area is tabulated and discussed here.

Growth Trend Maps

Maps displaying the distribution of permitted residential construction within the OTO Study area and county-level migration trends are presented in this section. In addition, In- and out-migration maps are included depicting information from the IRS and other data from the American Community Survey.

Demographics & Employment

Historical and current population, income, poverty, education, commuting, employment, and workforce statistics are presented in charts and graphs to identify trends.

Residential Units

Building Permit Activity

Building permit data for new single-family, duplex, and multi-family structures were collected for each county and municipality in the OTO area during 2023. For the purpose of this report, single-family structures represent one residential unit. Any structures divided into more than one residence, including duplexes, are counted as multi-family units.

In addition, permits for demolition of existing residential units were subtracted from the total of newly constructed residential structures and existing structures converted to residential use to produce the net total housing units added in each city and county within the OTO area in 2023. Permit activity in unincorporated portions of counties that lie within the OTO boundary is included in this report.

In this section of the report, the new housing units added in 2023 for each permitting jurisdiction are compared to the previous ten years of building permit activity by jurisdiction for single-family, multi-family, and total residential units. A table of permit activity in the OTO area from 2001 – 2021 is included as an appendix.



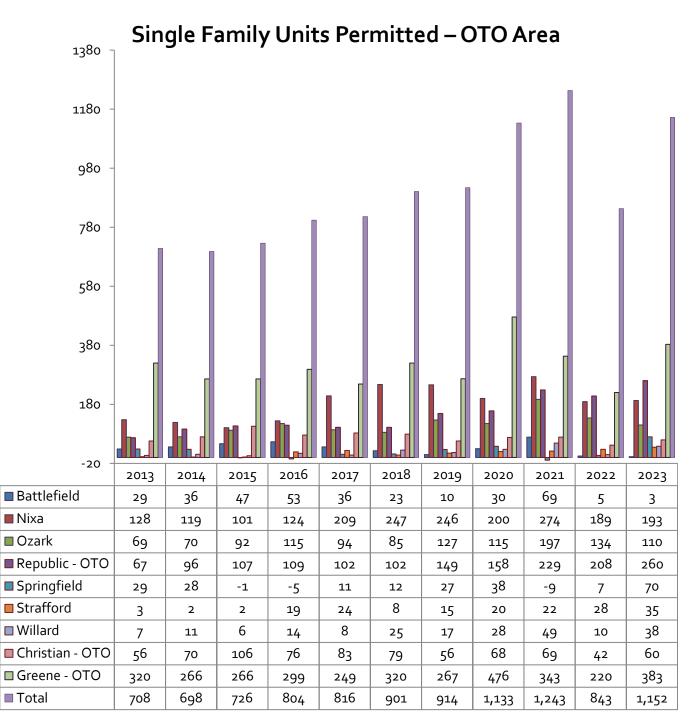
Residential Units

Single-Family

The information on this page depicts permitted construction of single-family housing in the OTO area from 2013 – 2023.

After a significant decrease in 2022, single-family permitting is on the rise. The number of residences permitted in 2023 (1,152) is comparable to the numbers permitted in 2020 (1,133) and 2021 (1,243).

The permit total for new single-family structures in the OTO Area was offset by the demolition of 111 houses. Most demolitions occurred in Springfield (80).



Multi-Family Units Permitted - OTO Area

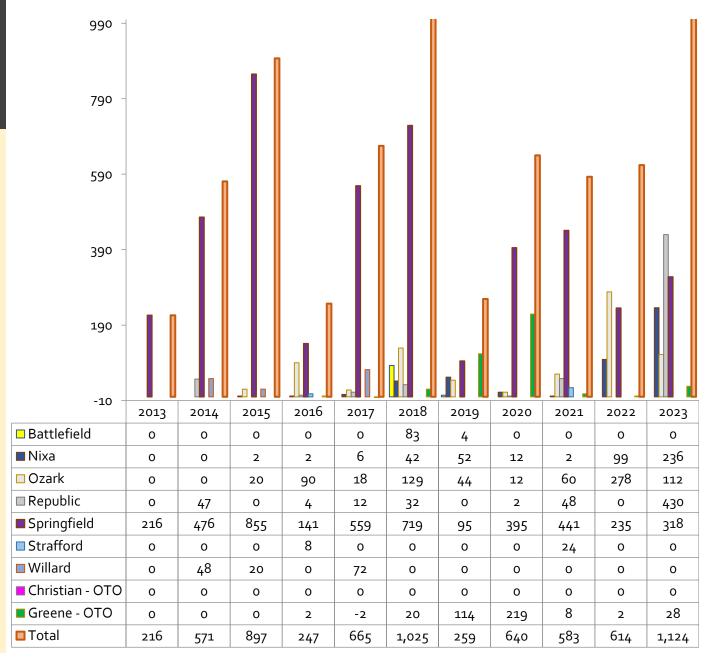
Residential Units

Multi-Family

Between 2013 and 2023, Springfield has generally had the highest number of multi-family housing construction permits.

In 2023, Republic had the highest number of multifamily units (430). Springfield had the second-highest number (318), followed by Nixa (236).

The largest multi-family development permitted in 2023 was the Stone Creek Falls project in Republic, with 360 units.



Residential Units

Totals

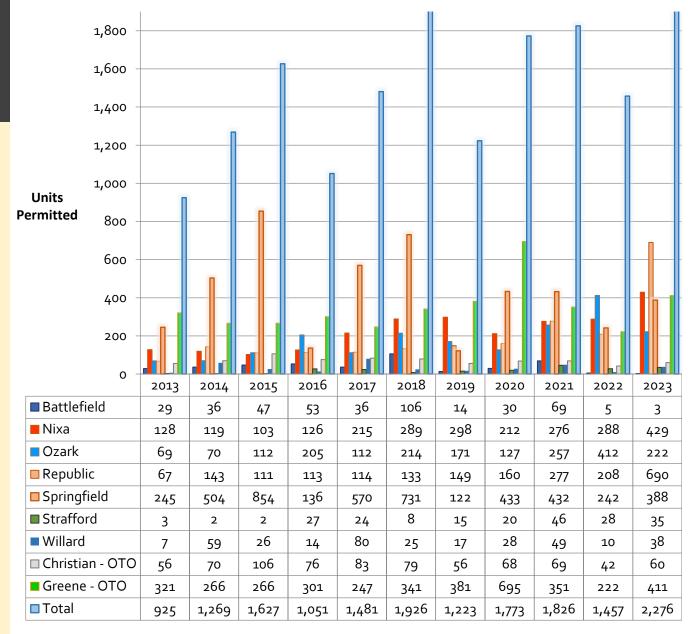
The information on this page depicts the net total of housing units permitted for the entire OTO area and each jurisdiction within it for 2023 and the prior ten years.

While residential unit construction peaked in the mid-2000s, it had dropped considerably by 2011 during the "great recession" (see Appendix A).

Growth in residential permits has recovered somewhat in the last ten years, driven by single-family developments in Nixa, Republic, and Greene County as well as 55+ communities.

After a dip in 2022, the number of permits issued in 2023 has recovered to be the highest in this ten year range.

OTO Area Total Residential Units Permitted

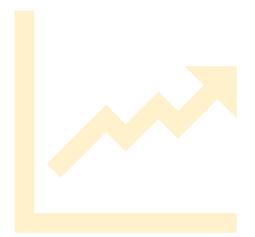


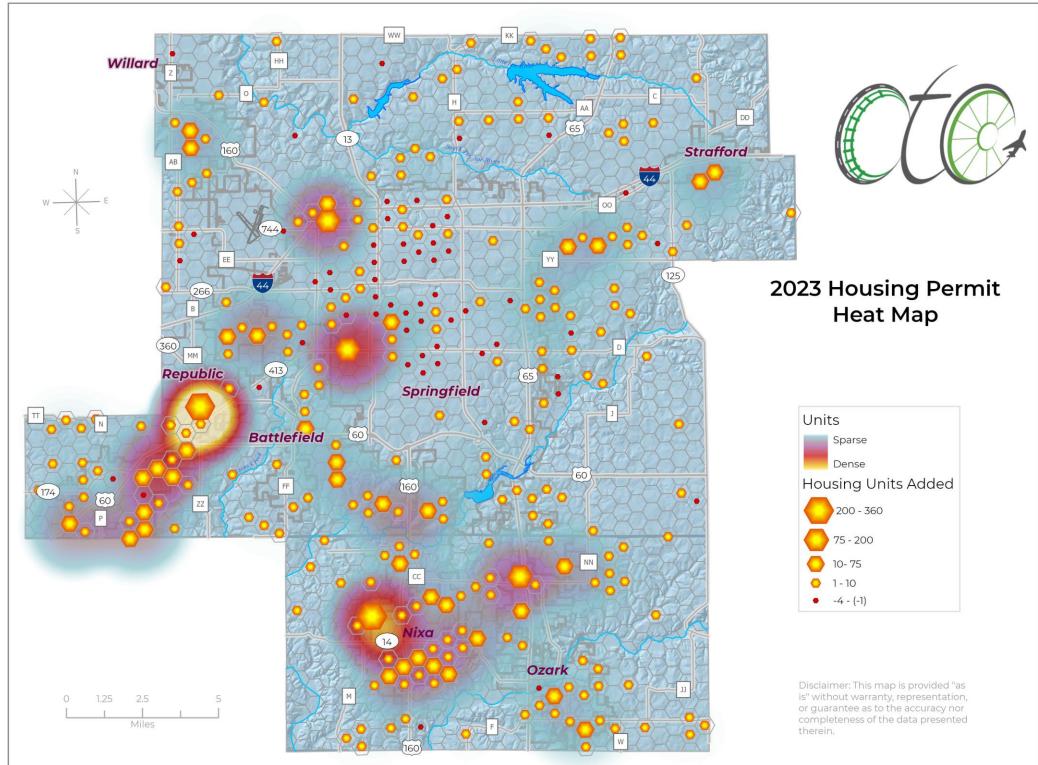
Growth Trend Maps

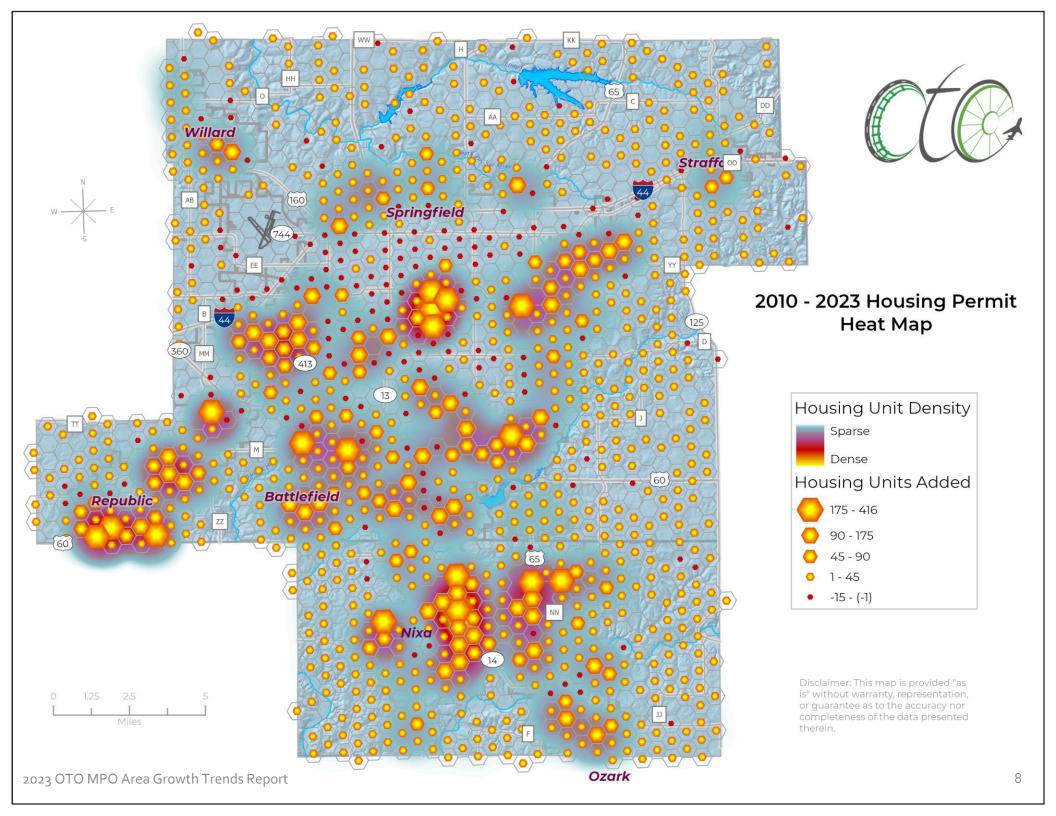
Changes in Housing Units

The maps on the following pages illustrate the locations of housing units added in 2023 as well as the period from 2010 to 2023.

Additionally, heat map symbology has been added to demonstrate densities of new residential structure development. A layer of geocoded permit address points aggregated into a grid of hexagons was added as an overlay to provide more information about the location and magnitude of residential development in 2023 as well as 2010 - 2023.







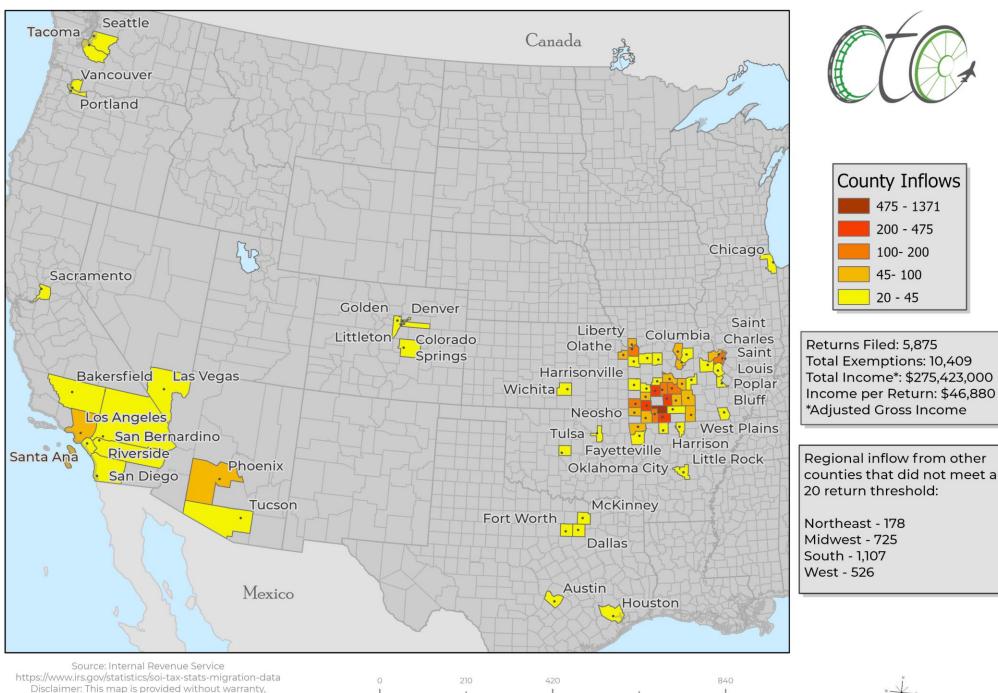
Growth Trend Maps

Migration Flows

County-to-County flow maps for in- and out-migration to and from Greene and Christian counties prepared with IRS tax statistics from 2020 – 2021 are included.

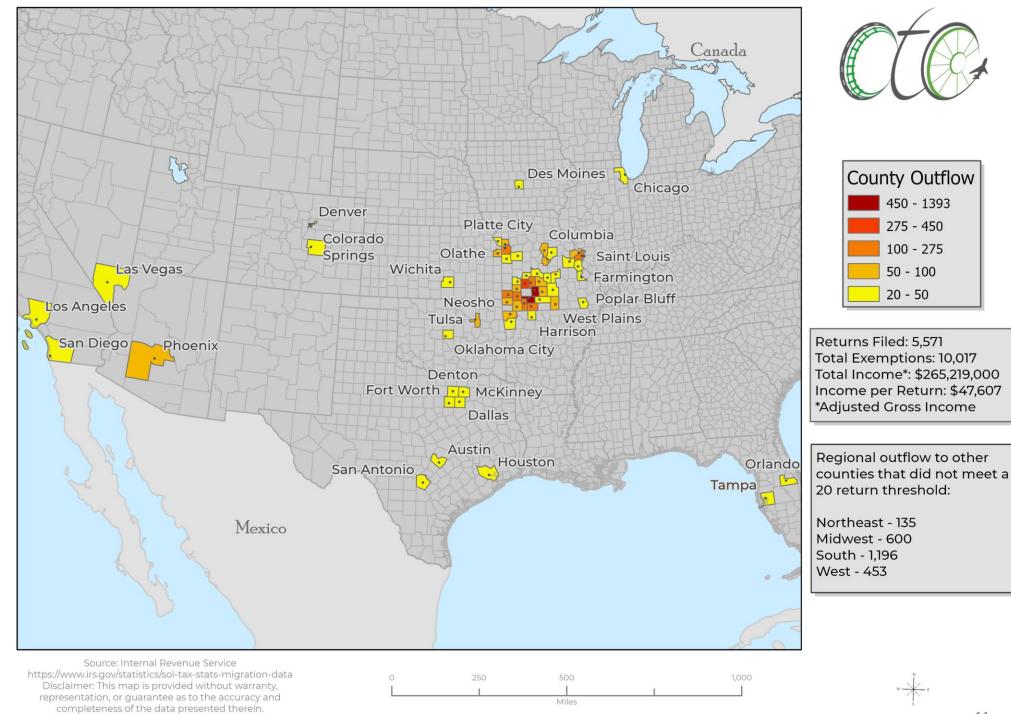


IRS Migration Statistics County-to-County Inflow Greene County 2020-2021

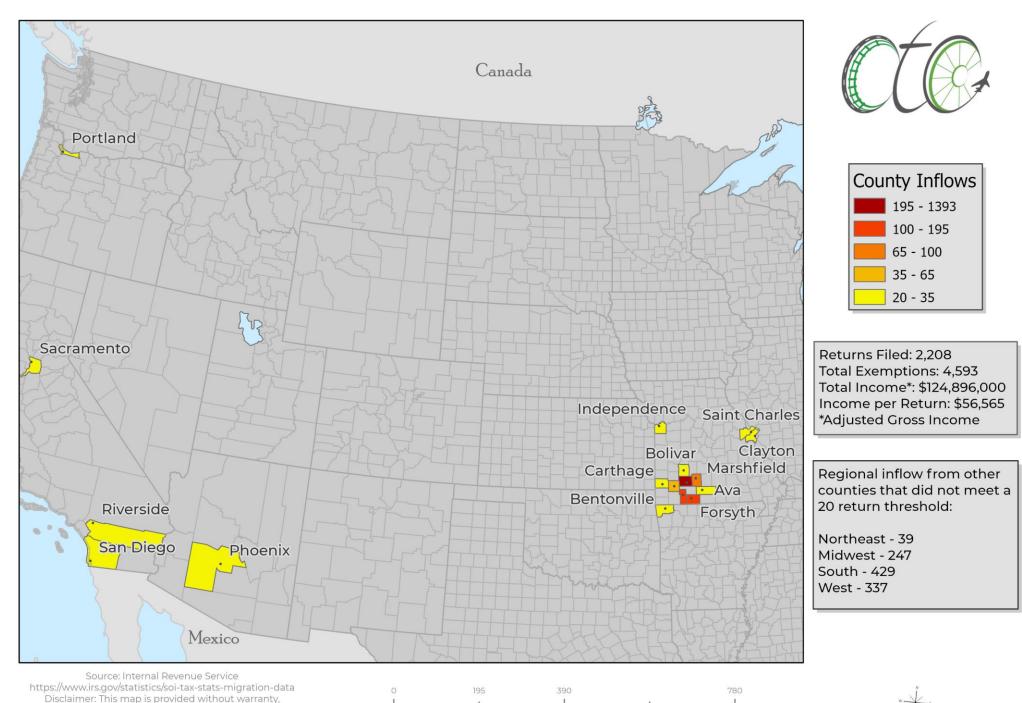


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IRS Migration Statistics County-to-County Outflow Greene County 2020-2021

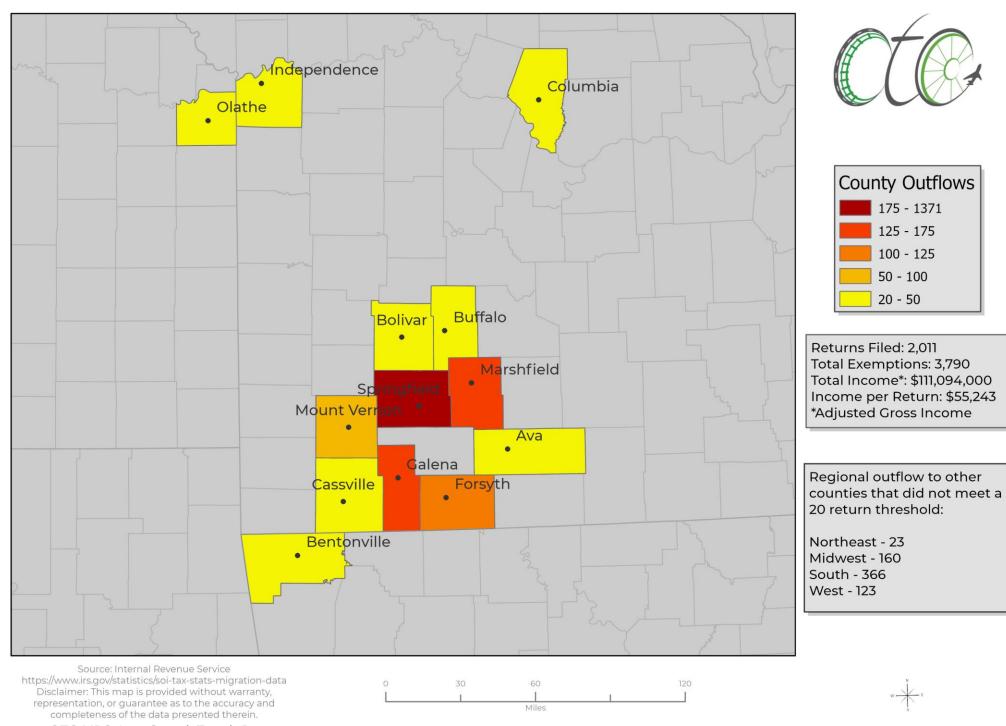


IRS Migration Statistics County-to-County Inflow Christian County 2020-2021



representation, or guarantee as to the accuracy and

IRS Migration Statistics County-to-County Outflow Christian County 2020-2021



Demographics & Employment

Population Change

This section contains information about the population of the Springfield, Missouri Metropolitan Statistical Area (MSA). The Springfield MSA is made up Christian, Dallas, Greene, Polk, and Webster counties in southwest Missouri. Metropolitan Statistical Areas are designated by the U.S. Census Bureau based on the economic ties to a large population center. The number of commuters from the five counties in the MSA that are employed in the OTO area have a tremendous impact on the transportation system and local economies.

The OTO prepares the Growth Trends report annually to keep stakeholders and the public informed of changes and trends in population and employment aimed at facilitating cooperative decision making in support of an excellent regional transportation system.

Other transportation related demographics for municipalities and counties in the OTO area as well as the MSA, such as population growth, income, poverty, mean travel time, workforce by industry, and job growth by jurisdiction are presented in this section.



Springfield MSA

The Springfield, Missouri Metropolitan Statistical Area (MSA) includes Greene, Christian, Webster, Polk, and Dallas Counties.

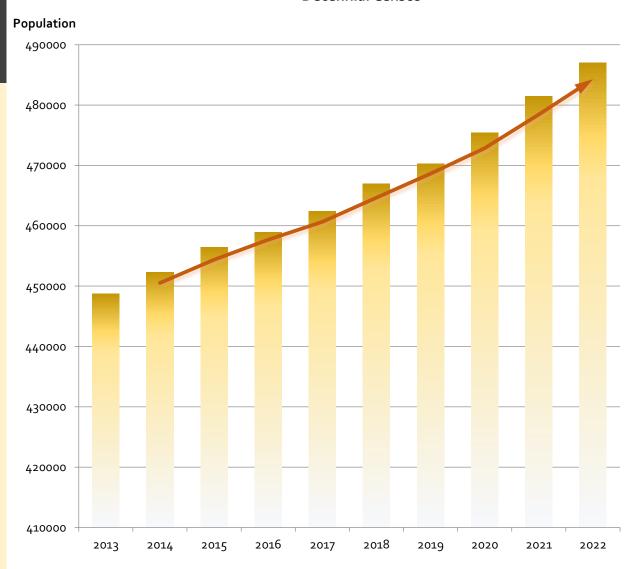
The chart on this page shows the steady increase of the combined MSA county populations.

From 2013 to 2022, the MSA population has increased from 448,744 to 487,061. This is an increase of 8.5%, equaling a 0.85% annual rate of growth.

Using the rule of 70, at an annual growth percent of 0.85, it will take the Springfield MSA over 82 years to double in population to 974,122.

Springfield MSA Population (Greene, Christian, Webster, Polk and Dallas Counties)

Source: U.S. Census Bureau Population Estimates Program & 2020 Decennial Census



Springfield MSA

Continued

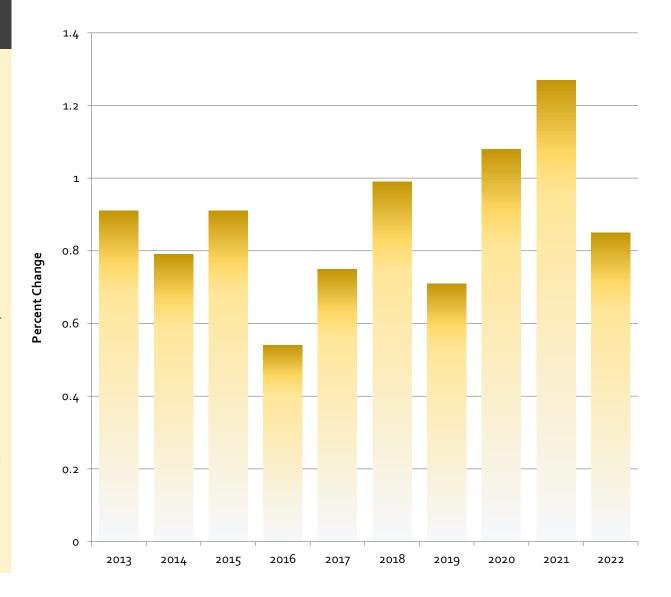
Information for the year-overyear population percent change for the five-county Springfield MSA is presented here.

Although population growth within the MSA has been consistently positive, the percent of change varies from year-to-year. The highest year-over-year percent change during the 10-year period from 2013 to 2022 was from 2020 to 2021.

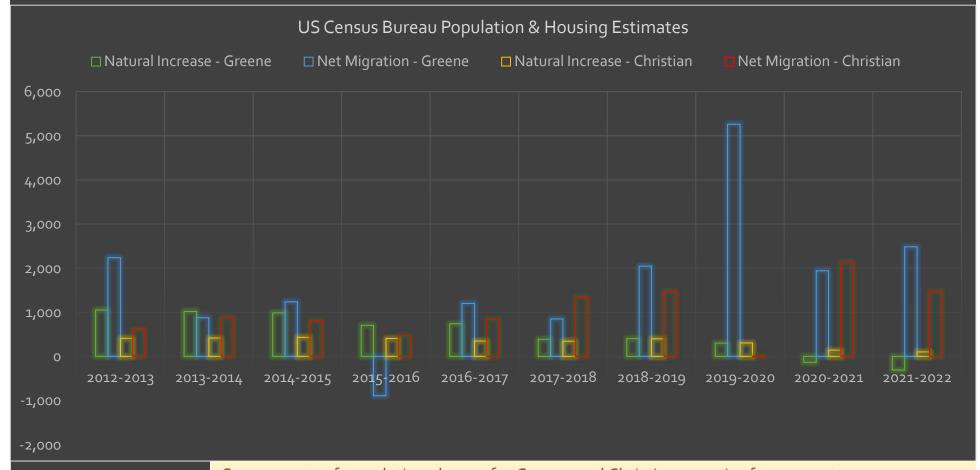
The lowest year-over-year percent change was from 2015 to 2016 at 0.52%. The percent change in population from 2019 to 2020 is the first time it had been over 1% since 2009 to 2010.

Year-over-Year Population Percent Change Springfield MSA

Source: US Census Bureau Population Estimates Program & 2020 Decennial Census



Components of Population Change



Natural Increase & Net Migration Components of population change for Greene and Christian counties from 2012 to 2022 are presented on this page. Natural Increase, births minus deaths, in Greene County has been on the decline over the past decade although births still outnumbered deaths until 2021 which was the first time deaths outnumbered births. Natural increase was the lowest in Christian County in the same year. This is most likely a response to the Covid-19 pandemic. In 2022, deaths further outnumbered births in Greene County, and natural increase in Christian County continued to decline. Net migration has been steadily climbing since reaching a low point in 2016 for both counties apart from 2019 to 2020. The extreme outliers for both counties during this period is due to the Covid-19 pandemic.

Median Household Income

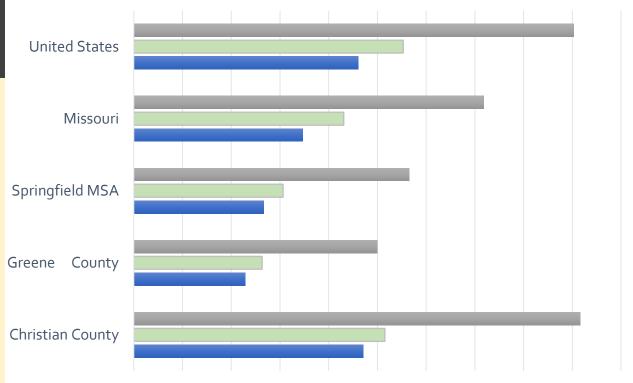
Median household income for Greene and Christian Counties, the Springfield MSA, Missouri, and the United States for each year from 2011, 2016, & 2021 American Community Survey 5-year estimates are presented here.

The ACS estimates are based on sampling and are reported within a margin of error. The ACS estimates should only be compared at 5-year intervals to ensure the population sampled is not included in any other survey.

A comparison of survey estimates between survey years indicates that the rise in median household incomes is statistically different in 2021. Based on the sample margins of error, the median income of households in all geographies is significantly higher than 2011 & 2016 estimates and even outpace the rate of inflation.

Median Household Income Springfield MSA Counties

Source: American Community Survey 5-Year Estimates



\$30,000\$35,000\$40,000\$45,000\$50,000\$55,000\$60,000\$65,000\$70,000\$75,000\$80,000

	Christian County	Greene County	Springfield MSA	Missouri	United States
2022	\$75,787	\$54,968	\$58,291	\$65,920	\$75,149
2017	\$55,761	\$43,175	\$45, 326	\$51,542	\$57,652
2012	\$53,549	\$41,458	\$43,333	\$47,333	\$53,046

Median Household Income

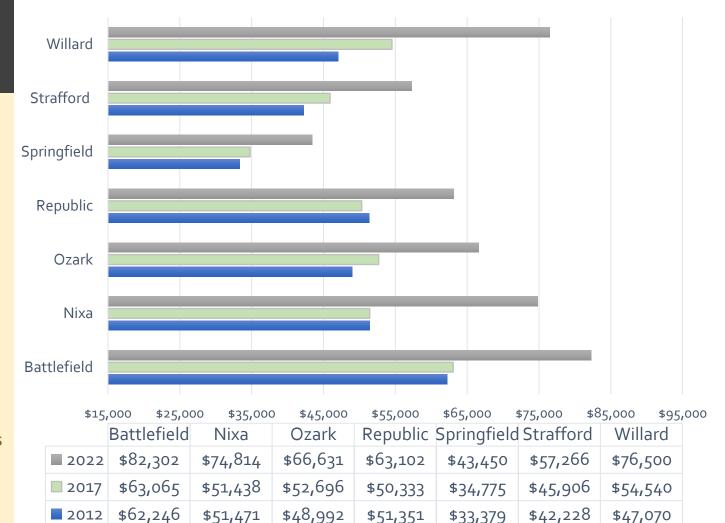
The chart to the right shows median household income for each city within the OTO planning area.

The ACS estimate for 2022 is higher for all cities. In Springfield, there is a significant difference between 2012, 2017, and 2022.

In the cases of Battlefield, Ozark, Nixa, Republic, Strafford & Willard there is no significant difference between 2012 & 2017, but the 2022 estimate is statistically different from the earlier five-year samples.

Median Household Income OTO Area Cities

Source: American Community Survey 5-Year Estimates



\$51,351

\$33,379

\$47,070

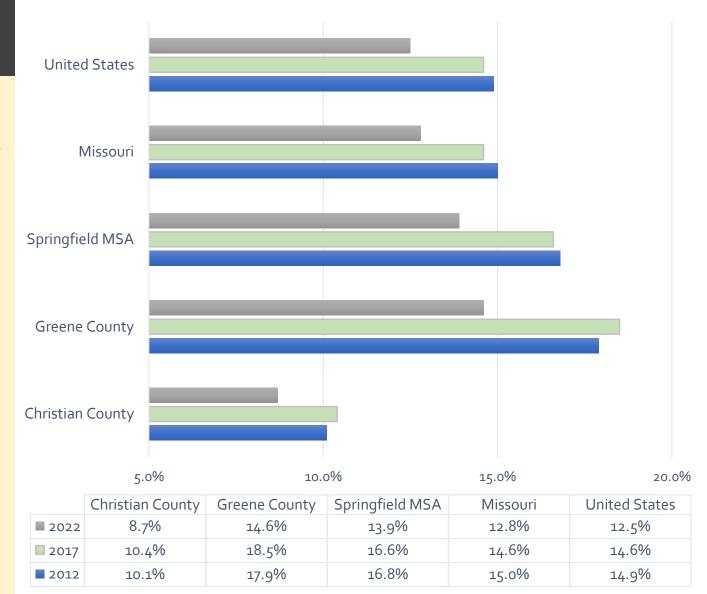
Individuals Living Below Poverty

In 2021, the percentage of people living at or below the poverty level had dropped below 2011 & 2016 levels for the US & Missouri. This represents a near complete recovery from the surge of people living at or below poverty resulting from the great recession.

Survey estimates for 2021 are statistically different from 2011 & 2016 estimates for all geographies. This indicates that percentages of people living below poverty level were reduced over the past decade but also impacted by financial stimulus during the pandemic.

Persons Living Below Poverty Level Springfield, MO MSA and Counties

American Community Survey 5-Year Estimates



Children Living in Poverty

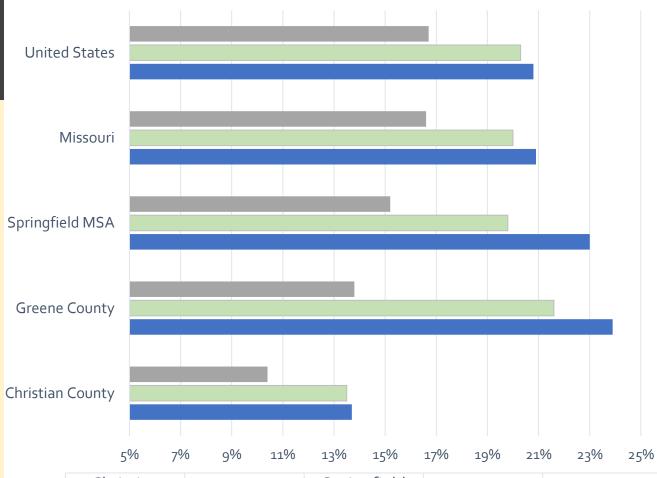
Estimates for the number of Children ages 17 and younger living at or below the poverty level for the Springfield MSA, Greene, and Christian Counties are compared with Missouri and the United States in the chart.

The estimates for the percentage of children living at or below the poverty level in 2011 & 2016 samples are not statistically different across all geographies. The five-year estimates for 2016 are significantly different from the 2021 sample in all geographies.

This indicates that children living at or below poverty level has returned to pre-recession levels or better across the board.

Children Living in Poverty

Source: American Community Survey 5-Year Estimates



	Christian County	Greene County	Springfield MSA	Missouri	United States
2022	10.4%	13.8%	15.2%	16.6%	16.7%
2017	13.5%	21.6%	19.8%	20.0%	20.3%
2012	13.7%	23.9%	23.0%	20.9%	20.8%

Workforce Education Levels

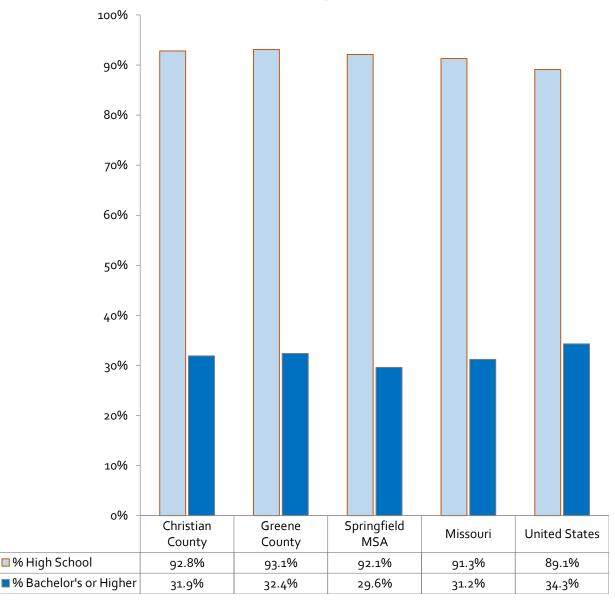
Workforce education levels affect employment and earning levels within communities.

Christian and Greene Counties have higher percentages of residents 25 years of age or older with a high school diploma than the MSA, State, or the U.S. Greene County has the higher percentage of residents 25 years of age or older with a four-year college degree at 32.4 percent compared to all other geographies except for the U.S.

The Springfield MSA as a whole, has the lowest percentage of people over 25 with a bachelor's degree or higher while all areas have a higher percentage of high school graduates than the U.S.

Workforce Education Levels Percent with High School Diploma and College Degrees in Springfield MSA Counties

Source: 2022 ACS 5-Year Estimates



Commuting Patterns

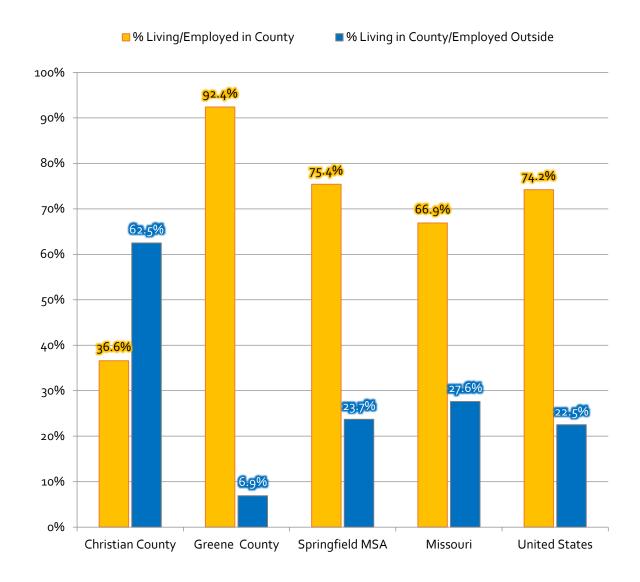
The chart to the right shows the percentage of workers who work in their county of residence compared to the percentage who work in a different county.

Of the people who work in Greene County, 92.4 percent also live in Greene County. Conversely, the majority (62.5%) of Christian County residents commute to another county for work.

The MSA percentage of workers living in the same county as they are employed is comparable to that of the United States but greater than Missouri as a whole.

County of Residence vs. County of Employment

Source: 2022 ACS 5-Year Estimates

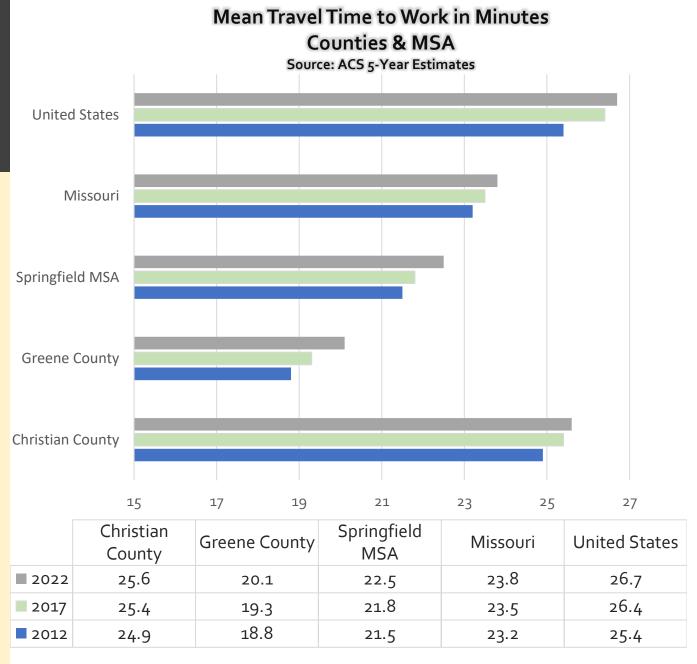


Mean Travel Time to Work

The chart to the right shows the average commute time for individuals living in Greene and Christian Counties, Missouri, the United States, and the Springfield, MO MSA.

Residents of Greene County have the shortest commutes to work at 20.1 minutes. Workers living in Christian County have the longest commutes with an estimated mean of 25.6 minutes. This is comparable to the United States as a whole.

Travel time estimates for the United States and Missouri are statistically different and have increased across all five-year samples. Greene County and the Springfield MSA had statistically significant increases between 2017 and 2022. Christian County was not statistically different across any of the samples.



Mean Travel Time to Work

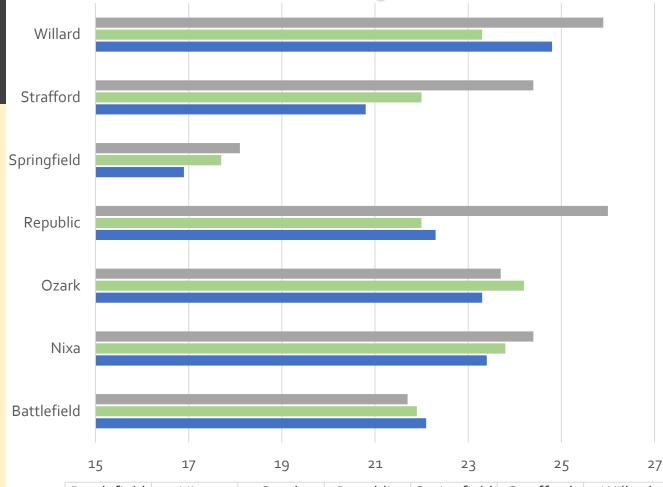
The chart to the right shows the average commute time for residents living in the seven cities within the OTO area.

The 2022 estimate for Republic is statistically different from 2017 showing an increase but the 2017 estimate is not statistically different from 2012.

The 2022 estimates for Springfield and Strafford are significantly higher than 2012 but no different than 2017.

There is no statistical difference between any of the estimates for Battlefield, Nixa, Ozark, or Willard.

Mean Travel Time to Work in Minutes OTO Area Cities Source: ACS 5-Year Estimates



	Battlefield	Nixa	Ozark	Republic	Springfield	Strafford	Willard
■ 2022	21.7	24.4	23.7	26	18.1	24.4	25.9
2017	21.9	23.8	24.2	22	17.7	22	23.3
2012	22.1	23.4	23.3	22.3	16.9	20.8	24.8

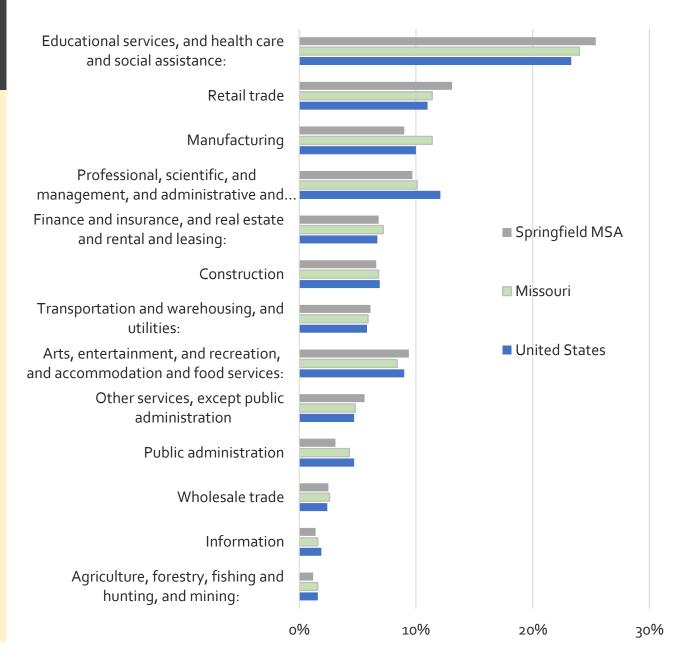
Workforce By Industry

The chart to the right compares industry employment percentages for the workforce for the Springfield, MO MSA, Missouri, & the United States.

The percent of industry employment in the Springfield MSA is most significantly greater than MO & the U.S. in Professional, Scientific, and Management, and Administrative and Waste Management Services.

The MSA percentage lags MO & the U.S. most significantly in Educational Services, and Health Care and Social Assistance. The MSA percentage of Manufacturing workers is greater than the U.S. but still falls short of MO.

Springfield MSA Percentage of Workers by Industry Source: ACS 2022 5-Year Estimates



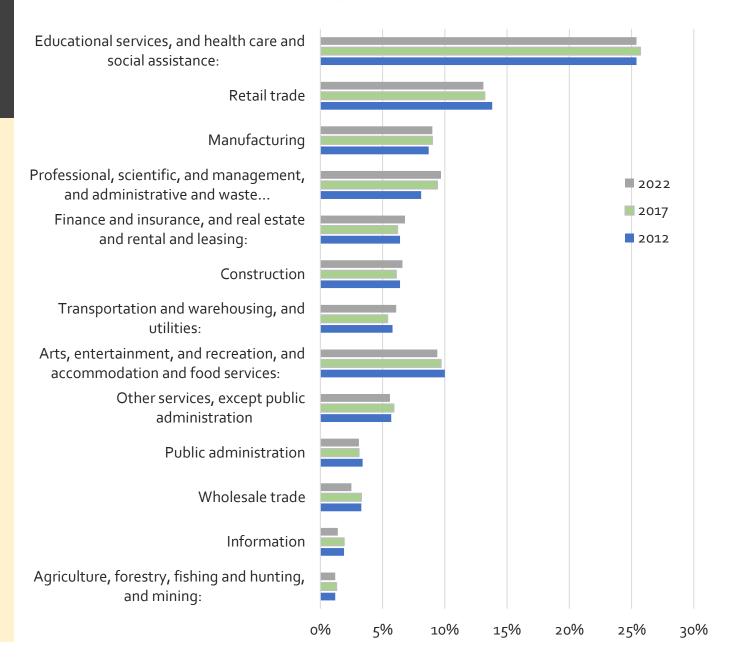
Workforce By Industry Springfield MSA

The chart to the right shows the 5-year estimates for the percentage of workers by industry in the Springfield MSA for 2022, 2017, & 2012.

There is no statistical difference for most industries amongst the surveys. However, the estimates are significantly different for Education & Healthcare and Construction Industries from prior 5-year samples, 2012 & 2017, respectively.

Employment percentages in the Wholesale Trade, Public Administration, & Information sectors declined from 2017 to 2022 while employment in the Professional, Scientific, etc. sector increased.

Springfield MSA Percentage of Workers by Industry Source: ACS 5-Year Estimates



Springfield MSA Workforce Change by Industry 2012 – 2022, American Community Survey 5-yr Estimates

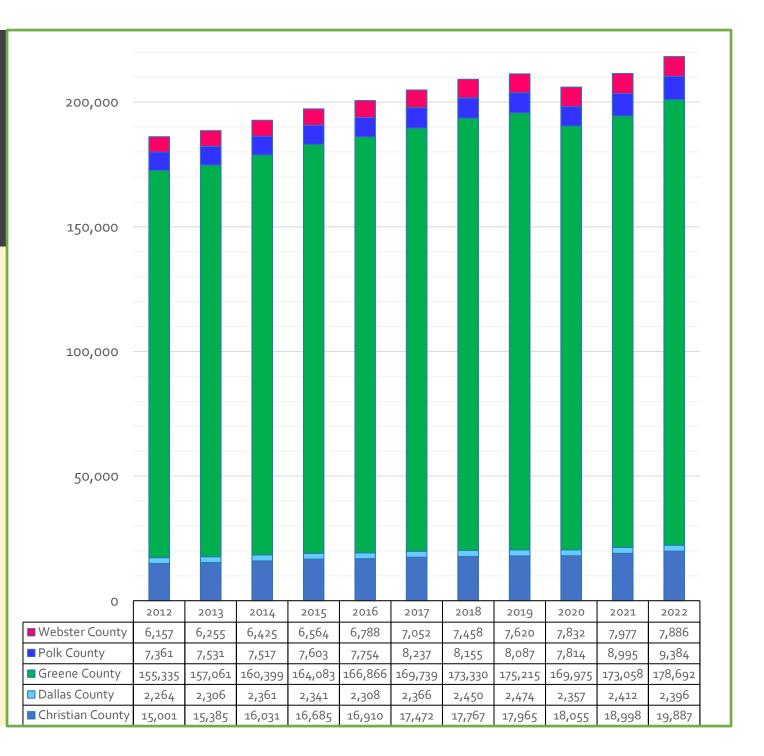
	2012	2022	Difference	% Change
ull-time, year-round civilian employed population 16 years and over	136,075	161,180	25,105	18.4
Agriculture, forestry, fishing and hunting, and mining:	1,668	1,738	70	4.2
Agriculture, forestry, fishing and hunting	1,468	1,544	76	5.2
Mining, quarrying, and oil and gas extraction	200	194	-6	-3.0
Construction	8,644	10,784	2,140	24.8
Manufacturing	14,618	17,299	2,681	18.3
Wholesale trade	5,549	5,236	-313	-5.6
Retail trade	16,928	18,607	1,679	9.9
Transportation and warehousing, and utilities:	9,690	10,493	803	8.3
Transportation and warehousing	7,829	8,842	1,013	12.9
Utilities	1,861	1,651	-210	-11.3
Information	2,870	2,266	-604	-21.0
Finance and insurance, and real estate and rental and leasing:	10,173	12,102	1,929	19.0
Finance and insurance	7,797	9,486	1,689	21.7
Real estate and rental and leasing	2,376	2,616	240	10.1
Professional, scientific, and management, and administrative and waste management services:	10,776	16,125	5,349	49.6
Professional, scientific, and technical services	6,025	9,727	3,702	61.4
Management of companies and enterprises	293	292	-1	-0.34
Administrative and support and waste management services	4,458	6,106	1,648	37.0
Educational services, and health care and social assistance:	34,080	40,192	6,112	17.9
Educational services	11,711	14,008	2,297	19.6
Health care and social assistance	22,369	26,184	3,815	17.1
Arts, entertainment, and recreation, and accommodation and food services:	7,939	9,975	2,036	25.6
Arts, entertainment, and recreation	1,425	1,900	475	33.3
Accommodation and food services	6,514	8,075	1,561	24.0
Other services, except public administration	7,171	8,082	911	12.7
Public administration	5,969	6,187	218	3.7

Number of Jobs by MSA County

The data contained in the chart on this page was retrieved from the U.S. Census Bureau The Local Employment and Household Dynamics (LEHD) Quarterly Workforce Indicators.

The data show job losses from 2021 to 2022. Beginning in 2011, jobs numbers start to climb every year through 2019. The overwhelming number of jobs in the MSA are in Greene County.

Although jobs numbers have risen in every county in the MSA, the proportion of MSA jobs within Greene County from 2010 to 2020 has remained relatively constant.



Data Sources

The figures provided in this report are for informational purposes only. The Ozarks Transportation Organization (OTO) offers no warranty, either expressed or implied, that the population and housing unit numbers published here are accurate and assumes no liability for any use to which the data may be put.

Building permit data were provided by the Springfield Department of Building Development Services, the Greene County Department of Building Regulations, the Christian County Planning and Development Department, and the cities of Battlefield, Republic, Nixa, Ozark, Strafford, and Willard.

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities and towns.

Other data sources include:

U.S. Census Bureau, 2020 Decennial Census. P.L. 94_171 Redistricting Data

U.S. Census Bureau, 2020. Quarterly Workforce Indicators. Washington, DC: U.S. Census Bureau, Longitudinal-Employer Household Dynamics Program, accessed on 2/13/2024 https://lehd.ces.census.gov/data/#gwi.

U.S. Census Bureau. 2022. LEHD Origin-Destination Employment Statistics (2002-2021) LEHD Origin-Destination Employment Statistics (2002-2021) at https://onthemap.ces.census.gov. LODES 7.4 [version]

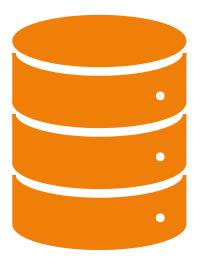
Missouri Census Data Center, (2020). http://mcdc.missouri.edu/decennial-census/1980-1990.shtml

Missouri Census Data Center, (2020). http://mcdc.missouri.edu/decennial-census/2000.shtml

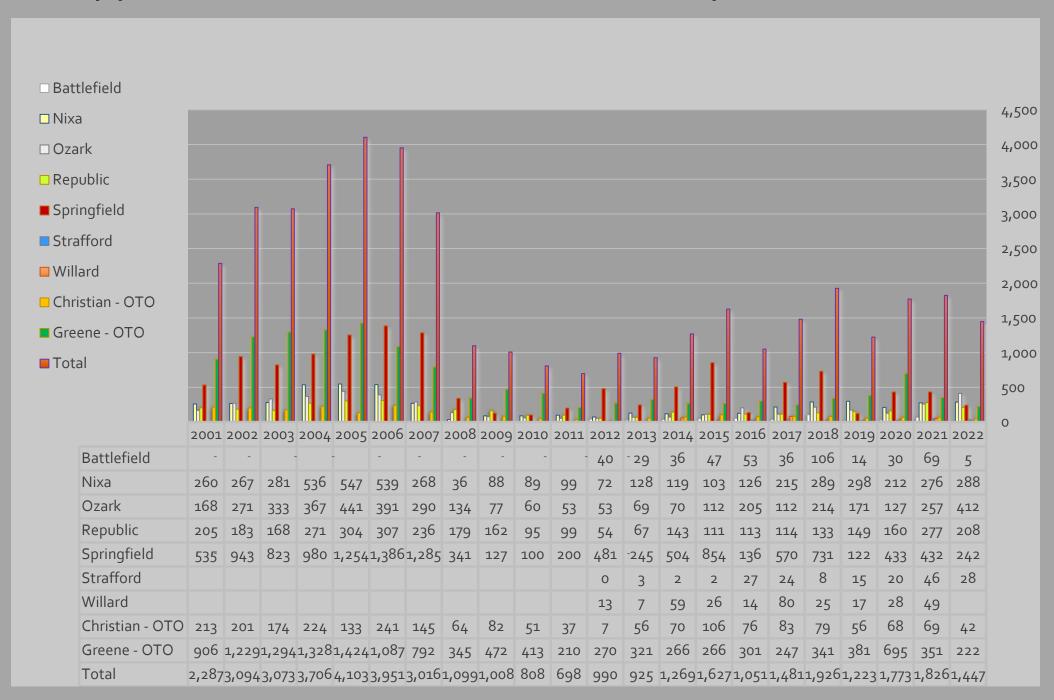
Missouri Census Data Center. (2024). *State/County Annual Population Change* [dataset application]. Available from https://mcdc.missouri.edu/applications/population/change/.

U.S. Census Bureau, 2020 & 2022, 2017, 2012 American Community Survey 5-Year Estimates. https://data.census.gov/cedsci/

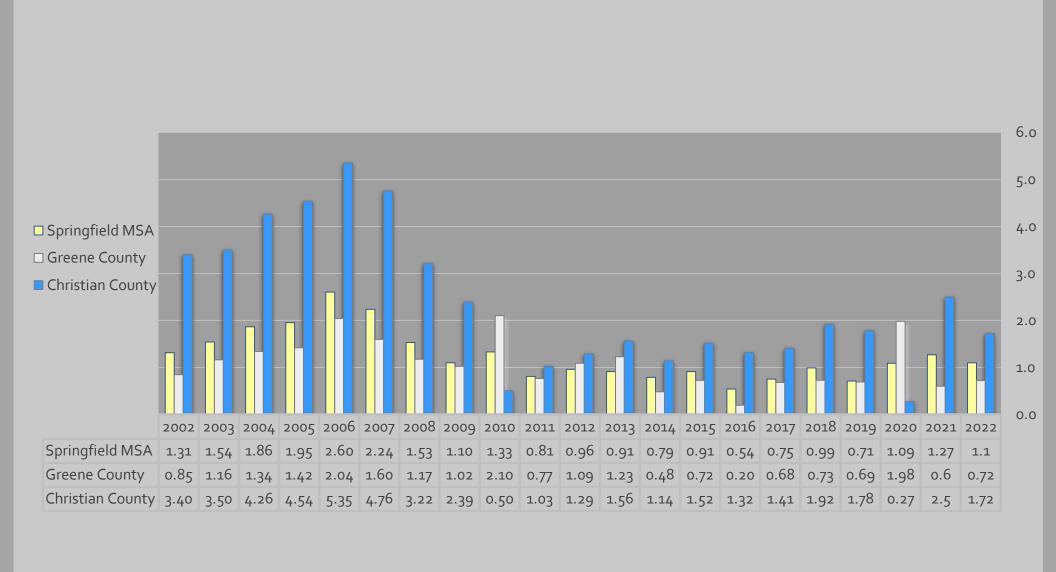
<u>Internal Revenue Service, SOI Tax Stats – Migration Data,</u> 2024.



Appendix A: OTO Area Permit Activity 2001 - 2022



Appendix B: Year-over-Year Population Percent Change 2002 - 2022



Appendix C: Year-over-Year Total Jobs Percent Change 2002 — 2022 & Daily Vehicle Miles Travelled

