MICHIGAN'S LABOR MARKET NEWS

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2022 Occupational Employment and Wage Trends

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Map of the Month: 2022 Median Wage by Michigan County

pg. 7

Relevant Rankings: Median Wage Change by Michigan Prosperity Region; Change in Employment by Major Occupational Group in Michigan Michigan's April 2023 unemployment rate of 3.8 percent tied its February 2020 pre-pandemic rate for the first time

APRIL 2023 JOBLESS RATE

MICHIGAN

3.8%

NATIONAL

3.4%

TABLE OF CONTENTS

- 3 Michigan Employment and Unemployment Trends
- 4 Michigan Job Trends by Industry Sector
- 7 Map of the Month: 2022 Median Wage by Michigan County
- 8 2022 Occupational Employment and Wage Trends
- 14 April Online Job Advertisements
- 15 March Job Openings and Labor Turnover
- 17 Relevant Rankings: Median Wage Change by Michigan Prosperity Region; Change in Employment by Major Occupational Group in Michigan



HAILEY BARRUS DESIGNER Communications Representative barrush1@michigan.gov



KRYSTAL JONES **CONTRIBUTOR** Economic Analyst jonesk54@michigan.gov



WAYNE ROURKE EDITOR Labor Market Information Director rourkew@michigan.gov



JIM BIRNEY CONTRIBUTOR Economic Analyst birneyj@michigan.gov



KRISTIN MILLER CONTRIBUTOR Departmental Analyst millerk21@michigan.gov



TRISHA SCHLEGEL CONTRIBUTOR Economic Analyst schlegel@michigan.gov



JOHN DILLON CONTRIBUTOR Economic Analyst dillonJ4@michigan.gov



REIMA NASSER CONTRIBUTOR Economic Analyst nasserr@michigan.gov

Michigan's Labor Market News is a product of the Michigan Center for Data and Analytics (MCDA), which enhances and promotes evidence-based decision making across state government through advanced research and analytics.

The Labor Market Information division of the MCDA is the official source for Michigan's employment, occupation, and industry data through a partnership with U.S. Department of Labor.

MICHIGAN UNEMPLOYMENT RATE DECLINES IN APRIL

Michigan's unemployment rate saw a decline in April, dropping by three-tenths of a percentage point to reach 3.8 percent on a seasonally adjusted basis.

This marks the first time since the start of the pandemic that the state's unemployment rate has returned to pre-pandemic levels, matching the rate of 3.8 percent recorded in February 2020. It is the lowest unemployment rate since March 2020 (3.7 percent), just before the pandemic significantly impacted Michigan's labor market.

Despite pandemic-related employment disruptions, current unemployment rates are comparable to previous labor market trends. Historical labor market data reveals that since the mid-1970s, statewide unemployment rates fell below 4.0 percent during three periods:

periodically from 1998 to 2000, from November 2019 to March 2020, and now.

The national unemployment rate decreased between March and April falling by one-tenth of a percentage point to 3.4 percent. Michigan's jobless rate was 0.4 percentage points above the U.S. rate. Over the year, both national and statewide unemployment rates exhibited rate reductions of two-tenths of a percentage point.

In terms of the labor force, Michigan saw a 0.4 percent increase during April, while the U.S. labor force remained unchanged.
Statewide employment levels rose by 0.6 percent over the month, slightly higher than the 0.1 percent increase seen nationwide. Total unemployment in Michigan fell by 7.0 percent over the month, while national unemployment declined by 3.1 percent.

Over the year, Michigan's workforce grew by 0.5 percent, which was 1.2 percentage points below the national labor force increase of 1.7 percent. Statewide employment rose by 0.7 percent, slightly lower than the 1.9 percent increase observed nationally. Michigan's total number of unemployed decreased by 3.6 percent since April 2022, while those unemployed nationally declined by 5.2 percent.

For more information on state and regional unemployment rates for Michigan, view full press releases at Michigan.gov/LMI.

REIMA NASSER Economic Analyst

MICHIGAN LABOR FORCE ESTIMATES, APRIL 2023 (SEASONALLY ADJUSTED)								
	APR	MAR	APR	OVER THE	MONTH	OVER THE	OVER THE YEAR	
	2023	2023	2022	NUMERIC	NUMERIC PERCENT		PERCENT	
Civilian Labor Force	4,869,000	4,851,000	4,843,000	18,000	0.4%	26,000	0.5%	
Employed	4,682,000	4,652,000	4,651,000	30,000	0.6%	31,000	0.7%	
Unemployed	186,000	200,000	193,000	-14,000	-7.0%	-7,000	-3.6%	
Unemployment Rate	3.8	4.1	4.0	-0.3	XXX	-0.2	XXX	

Source: Local Area Unemployment Statistics, Michigan Center for Data and Analytics, Michigan Department of Technology, Management & Budget



Source: Local Area Unemployment Statistics, Michigan Center for Data and Analytics, Michigan Department of Technology, Management & Budget

MICHIGAN NONFARM PAYROLL EMPLOYMENT **INCREASES DURING APRIL**

Michigan nonfarm payroll jobs remained virtually flat during April, rising by only 5,200 (+0.1 percent) to 4,420,000, on a seasonally adjusted basis. This over-the-month uptick marks the sixth consecutive month of recorded job gains on the statewide level or the 21st time over the last two years. Nonfarm employment in Michigan remained only 0.7 percent (-29,500) lower than its February 2020 pre-pandemic job level.

On the nationwide level, total nonfarm payroll jobs increased by 0.2 percent over the month, only 0.1 percentage point above the statewide average for April. Nationally, this marked the 28th consecutive month of recorded job gains on a seasonally adjusted basis. The U.S. surpassed its pre-pandemic job level in mid-2022.

In April, seasonally adjusted job additions were recorded in many statewide major industry sectors and subsectors. Notable employment gains were recorded within Professional and business services (+2,600), Private educational and health services (+1,900), and Government (+1,400). On a percentage basis, the Construction (+0.6 percent) major industry sector recorded the largest over-the-month positive job change during April. Several Michigan major industry sectors recorded job declines in April as well, including Leisure and hospitality (-1,700), Information (-500), and Other services (-300).

Nationally, the Private education and health services (+0.3 percent), Professional and business services (+0.2 percent), and Government (+0.1 percent) major industry sectors also recorded monthly job additions during April. On the nationwide level, Wholesale trade, Retail trade, and Information remained flat over the month. The Administrative and support and waste (-0.1 percent) industry sector was the only sector to record a job decline in April.

Majority of Major Industry Sectors Record Yearly Job Additions

Over the year, nine of Michigan's 11 major industry sectors recorded job gains since April 2022. Noteworthy additions were recorded in various major industry sectors including Construction (+4.3 percent), Government (+3.3 percent), and Private education and health services (+2.9 percent). The statewide Financial activities (-2.5 percent) and Other services (-1.7 percent) sectors both registered seasonally adjusted job declines during April.

Nationally, Private education and health services (+4.3 percent), Construction (+2.7 percent), and Government (+2.1 percent) also recorded job gains over the year. Additionally, every other major industry sector on the nationwide level

also noted April job additions, on a seasonally adjusted basis.

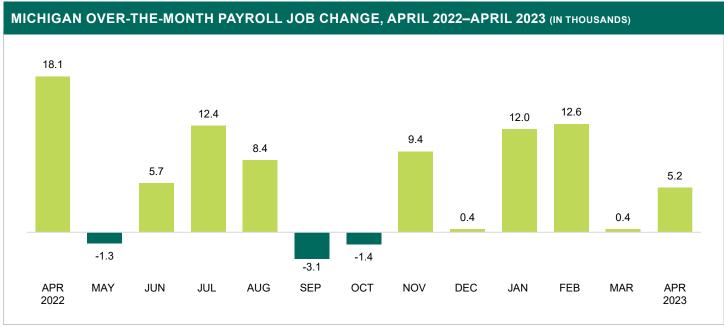
Retail Trade Jobs Decline in Most Metro Areas in April

Over the month, 13 of Michigan's 14 Metropolitan Statistical Areas (MSAs) recorded job growth, on a not seasonally adjusted basis. Led by the Bay City (+0.9 percent) region, four other metro areas recorded a job change greater than or equal to both the national and statewide average rates of change during April. The Niles-Benton Harbor area was the only region to record a negative rate of change (-0.3 percent), in April.

Jobs in the Mining, logging, and construction; Private educational and health services; and Leisure and hospitality industries remained either unchanged or increased in every metro area in Michigan during April.

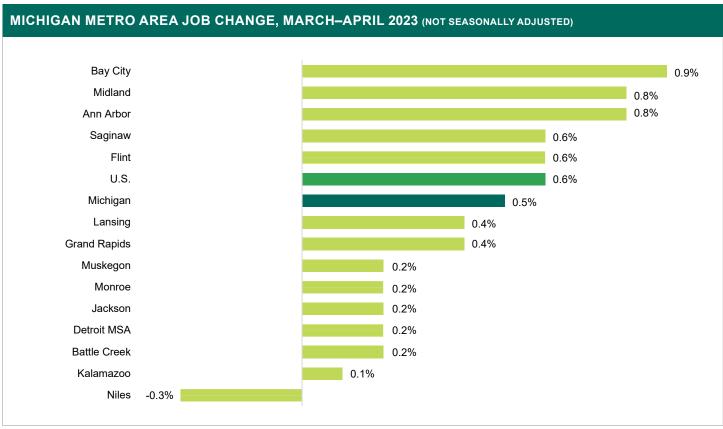
Of the 13 Michigan metro areas that record Retail trade jobs, 11 recorded virtually no change or a job decline over the month, opposite their typical seasonal trend during April.

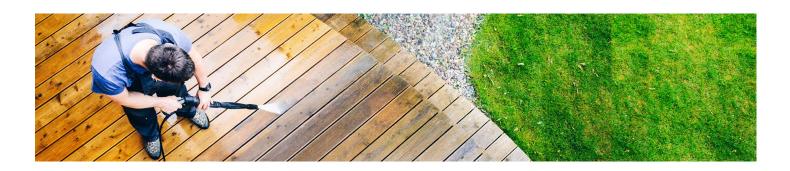
JIM BIRNEY **Economic Analyst**



Source: Current Employment Statistics, Michigan Center for Data and Analytics, Michigan Department of Technology, Management & Budget



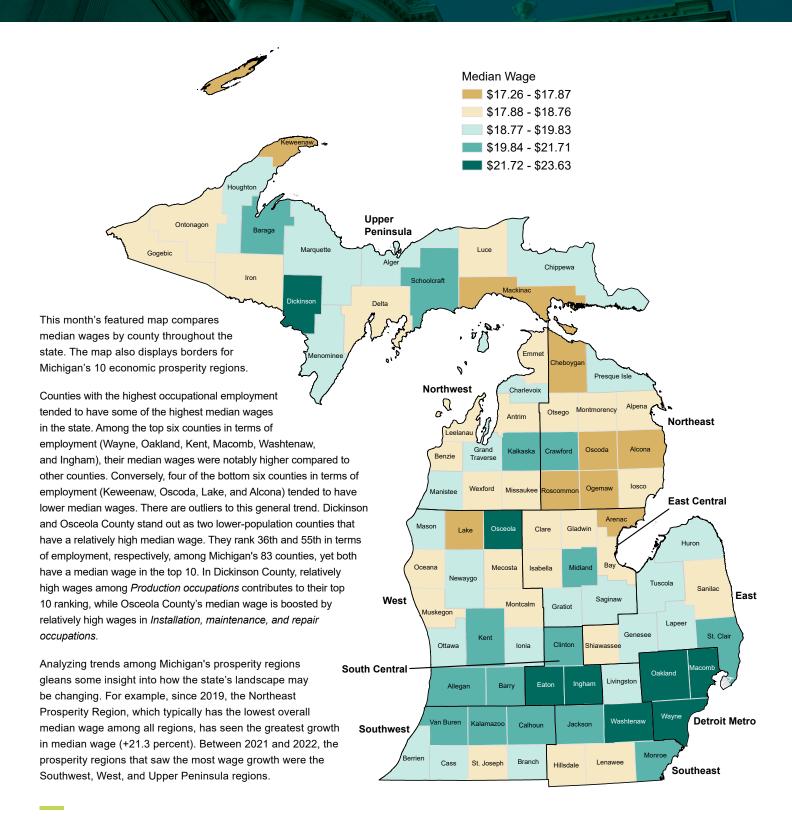




Total Private 3,815,300 3,811,500 3,773,900 3,800 0,1% 41,400 1,1% 27,600 0,9% 3,007,100 2,981,600 2,100 0,1% 27,600 0,9% 3,007,100 2,981,600 2,100 0,1% 27,600 0,9% 3,007,100 2,981,600 1,700 0,2% 13,800 1,7% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,	MICHIGAN PAYROLL JOBS (SEASONALLY ADJUSTED)							
TOTAL NONFARM	NIPUCTOV.	APR	MAR	APR	OVER THE MONTH		OVER THE YEAR	
Total Private 3,815,300 3,811,500 3,773,900 3,800 0,1% 41,400 1,1% 27,600 0,9% 3,007,100 2,981,600 2,100 0,1% 27,600 0,9% 3,007,100 2,981,600 2,100 0,1% 27,600 0,9% 3,007,100 2,981,600 1,700 0,2% 13,800 1,7% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,1% 4,	INDUSTRY	2023	2023	2022	LEVEL	PERCENT	LEVEL	PERCENT
Private Service-Providing 3,009,200 3,007,100 2,881,800 2,100 0.1% 27,800 0.9%	TOTAL NONFARM	4,420,000	4,414,800	4,359,300	5,200	0.1%	60,700	1.4%
Mining Logging and Construction 198,000 197,500 190,600 1,100 0.6% 8,000 4.2% Mining Logging 7,300 7,300 7,100 0 0.0% 200 2.8% Construction 191,000 190,200 183,500 1,100 0.6% 7,800 4.3% Mining and Logging 607,500 606,900 601,700 600 1,000 0.1% 5,800 1.3% Transportation Equipment Manufacturing 186,800 185,500 149,000 1,000 0.2% 8,000 1,8% Transportation Equipment Manufacturing 186,800 185,500 182,500 1,300 0.7% 4,300 2.4% Nor-Durable Goods 150,500 150,900 152,700 400 0.3% -2,200 -1,4% SERVICE-PROVIDING 3,813,900 3,610,400 3,657,000 3,550 0.1% 46,900 1.3% Trade, Transportation, and Utilities 810,200 810,300 808,200 -1,100 0.0% 2,000 0.2% Minimage and Charles Trade 190,400 179,700 171,400 700 0.4% 9,000 5.3% Refail Trade 482,500 453,600 458,200 -1,100 -0.2% -5,700 -1.2% Transportation, Warehousing, and Utilities 177,300 177,000 178,600 300 0.2% -1,300 0.7% -5,000 -2,5% Finance and Insurance 170,700 171,400 7700 -5,900 -0.9% 600 1.1% Finance and Insurance 170,700 171,700 77,800 -5,000 -0.9% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5% -5,000 -0.5%	Total Private	3,815,300	3,811,500	3,773,900	3,800	0.1%	41,400	1.1%
Mining, Logging, and Construction 198,800 197,500 190,600 1,100 0.6% 8,000 4.2% Mining and Logging 7,200 7,300 7,100 0 0.0% 200 2.8% Construction 191,300 190,200 183,500 1,100 0.6% 7,800 4.3% Manufacturing 607,500 600,900 601,700 600 1,000 0.2% 8,000 1.8% Durable Goods 457,000 456,000 148,000 1,000 0.7% 4,300 2.4% Nor-Durable Goods 150,500 150,900 152,700 400 -0.3% -2,200 -1.4% SERVICE-PROVIDING 3,613,900 3,610,400 3,567,000 3,500 0.1% 46,900 1.3% Trade, Transportation, and Utilities 810,200 170,700 171,400 700 0.0% 2,000 -2.3% Retail Trade 452,500 453,600 458,200 -1,100 -0.0 45,700 -1.2% Information <td>Private Service-Providing</td> <td>3,009,200</td> <td>3,007,100</td> <td>2,981,600</td> <td>2,100</td> <td>0.1%</td> <td>27,600</td> <td>0.9%</td>	Private Service-Providing	3,009,200	3,007,100	2,981,600	2,100	0.1%	27,600	0.9%
Mining and Logging 7,300 7,300 7,100 0 0.0% 200 2,8% Construction 191,300 190,200 183,500 1,100 0.6% 7,800 4,3% Manufacturing 607,500 666,900 601,700 600 0.1% 5,800 1.0% Durable Goods 457,000 456,000 182,500 13,30 0.7% 4,30 2,4% Transportation Equipment Manufacturing 186,800 185,500 182,500 1,300 0.7% 4,30 2,4% Non-Durable Goods 150,500 150,900 152,700 -400 -0.3% -2,200 -1.4% SERVICE-PROVIDING 3,613,900 3,610,400 3,867,000 3,500 0.1% 46,900 1.3% Trade, Transportation, and Utilities 810,200 810,300 808,200 -100 0.0% 2,000 2.5% Retail Trade 150,400 179,700 171,400 70 0.4% 9,00 5.5% Information 56,500	GOODS-PRODUCING	806,100	804,400	792,300	1,700	0.2%	13,800	1.7%
Construction 19,300 190,200 183,500 1,100 0.6% 7,800 4.3% Manufacturing 607,500 606,900 601,700 600 0.1% 5,800 1.0% Durable Goods 457,000 456,000 449,000 1,000 0.2% 8,000 1.8% Transportation Equipment Manufacturing 186,800 185,500 152,700 -400 -0.3% -2,200 -1.4% Non-Durable Goods 3,613,900 3,614,400 3,567,000 3,500 0.1% 46,900 1.3% SERVICE-PROVIDING 3,613,900 3,614,400 3,567,000 3,500 0.1% 46,900 1.3% Trade, Transportation, and Utilities 110,200 179,700 171,400 700 0.4% 9,000 5,3% Retail Trade 452,500 453,600 458,200 -1,100 -0.2% 5,700 -1,2% Transportation, Warehousing, and Utilities 177,300 177,000 178,600 300 0.2% 600 1,1%	Mining, Logging, and Construction	198,600	197,500	190,600	1,100	0.6%	8,000	4.2%
Manufacturing 607,500 606,900 601,700 600 0.1% 5,800 1.0% Durable Goods 457,000 456,000 449,000 1,000 0.2% 8,000 1.8% Transportation Equipment Manufacturing 186,800 185,500 182,500 1,300 0.7% 4,300 2.4% Nor-Durable Goods 150,500 150,900 152,700 -400 -0.3% -2.200 -1.4% SERVICE-PROVIDING 3,613,900 3,610,400 3,567,000 3,500 0.1% 46,900 1.3% Trade, Transportation, and Utilities 310,200 810,300 808,200 -100 0.0% 2,000 0.2% Relail Trade 1452,500 453,600 458,200 -1,100 -0.2% 5-5700 1-2% Transportation, Warehousing, and Utilities 177,300 177,000 178,800 300 0.2% -1,300 -0.7% Information 56,500 57,000 55,900 5500 -590 -9.9% 600 1.1%	Mining and Logging	7,300	7,300	7,100	0	0.0%	200	2.8%
Durable Goods	Construction	191,300	190,200	183,500	1,100	0.6%	7,800	4.3%
Transportation Equipment Manufacturing 186,800 185,500 182,500 1,300 0.7% 4,300 2.4% Non-Durable Goods 150,500 150,900 152,700 -400 -0.3% -2,200 -1.4% SERVICE-PROVIDING 3,613,900 3,610,400 3,567,000 3,500 0.1% 46,900 1.3% Trade, Transportation, and Utilities 810,200 810,300 808,200 -100 0.0% 2,000 0.2% Wholesale Trade 180,400 179,700 171,400 700 0.4% 9,000 5.3% Retail Trade 452,500 453,600 458,200 -1,100 -0.2% -5,700 -1.2% Transportation, Warehousing, and Utilities 177,300 177,000 178,600 300 0.2% -1,300 -0.7% Information 56,500 57,000 55,900 -500 -0.9% 600 1.1% Finance and Insurance 170,700 171,200 176,900 -500 -0.3% -6,200 -2.5%	Manufacturing	607,500	606,900	601,700	600	0.1%	5,800	1.0%
Non-Durable Goods	Durable Goods	457,000	456,000	449,000	1,000	0.2%	8,000	1.8%
SERVICE-PROVIDING 3,613,900 3,610,400 3,567,000 3,500 0.1% 46,900 1.3% Trade, Transportation, and Utilities 810,200 810,300 808,200 -100 0.0% 2,000 0.2% Wholesale Trade 180,400 179,700 171,400 700 0.4% 9,000 5.3% Retall Trade 452,500 453,600 458,200 -1,100 -0.2% -5,700 -1.2% Transportation, Warehousing, and Utilities 177,300 177,000 178,600 300 0.2% -1,300 -0.7% Information 56,500 57,000 55,900 -500 -0.9% 600 11.% Finance and Insurance 170,700 171,200 176,900 -500 -0.3% -6,200 -3.5% Real Estate and Rental and Leasing 57,700 57,000 57,400 70 1.2% 300 0.5% Professional, Scientific, and Technical Services 662,800 660,200 660,600 2,600 0.4% 2,200 0.3%	Transportation Equipment Manufacturing	186,800	185,500	182,500	1,300	0.7%	4,300	2.4%
Trade, Transportation, and Utilities 810,200 810,300 808,200 -100 0.0% 2,000 0.2% Wholesale Trade 180,400 179,700 171,400 700 0.4% 9,000 5.3% Retail Trade 452,500 453,600 458,200 -1,100 -0.2% 5,700 -1.2% Transportation, Warehousing, and Utilities 177,300 177,000 178,600 300 0.2% -1,300 -0.7% Information 56,500 57,000 55,900 -500 -0.9% 600 1.1% Financial Activities 228,400 228,200 234,300 200 0.1% -5,900 2.5% Finance and Insurance 170,700 171,200 176,900 -500 -0.3% -6,200 -3.5% Real Estate and Rental and Leasing 57,700 57,000 57,400 700 1.2% 300 0.5% Professional and Business Services 662,800 660,200 660,600 2,600 0.4% 2,200 0.3% Administrative and Tenterprises 69,900 70,600 70,700 -700 -1.0% -800 -1.1% Administrative and Support and Waste Management of Companies and Enterprises 69,900 70,600 70,700 -700 -1.0% -800 -1.1% Administrative and Support and Waste Management and Remediation Services 677,400 675,500 658,000 1,900 0.3% 19,400 2.9% Education and Health Services 677,400 675,500 658,000 1,900 0.3% 19,400 2.9% Education and Health Services 677,400 675,500 658,000 1,900 0.3% 19,400 2.9% Education and Hospitality 413,200 414,900 401,200 -1,700 -0.4% 12,000 3.0% Ars, Entertainment, and Recreation 53,400 532,00 49,800 200 0.4% 3,600 7.2% Accommodation and Food Services 160,700 161,000 163,400 -3.00 -0.2% -2,700 -1.7% Government 604,700 603,300 585,400 1,400 0.2% 19,300 3.3% Federal Government 55,800 55,500 54,200 300 0.5% 1,600 3.0% State Government 55,800 55,500 55,500 54,200 300 0.5% 1,600 3.0% State Government 181,800 181,300 176,600 500 0.00 0.00 500 0.00 500 0.00 500 0.00 0.00 500 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Non-Durable Goods	150,500	150,900	152,700	-400	-0.3%	-2,200	-1.4%
Wholesale Trade 180,400 179,700 171,400 700 0.4% 9,000 5.3% Retail Trade 452,500 453,600 458,200 -1,100 -0.2% -5,700 -1.2% Transportation, Warehousing, and Utilities 177,300 177,000 178,600 300 0.2% -1,300 -0.7% Information 56,500 57,000 55,900 -500 -0.9% 600 1.1% Financial Activities 228,400 228,200 234,300 200 0.1% -5,900 -2.5% Finance and Insurance 170,700 171,200 176,900 -500 -0.3% -6,200 -3.5% Real Estate and Rental and Leasing 57,700 57,000 57,400 700 1.2% 300 0.5% Professional, Scientific, and Technical Services 662,800 660,200 660,800 2,600 0.4% 2,200 0.3% Administrative and Support and Waste Management of Companies and Enterprises 69,900 70,600 70,700 -700 -1.0% -	SERVICE-PROVIDING	3,613,900	3,610,400	3,567,000	3,500	0.1%	46,900	1.3%
Retail Trade 452,500 453,600 458,200 -1,100 -0.2% -5,700 -1.2% Transportation, Warehousing, and Utilities 177,300 177,000 178,600 300 0.2% -1,300 -0.7% Information 56,500 57,000 55,900 -500 -0.9% 600 1.1% Financial Activities 228,400 228,200 234,300 200 0.1% -5,900 -2.5% Finance and Insurance 170,700 171,200 176,900 -500 -0.3% -6,200 -3.5% Real Estate and Rental and Leasing 57,700 57,000 57,400 700 1.2% 300 0.5% Professional and Business Services 662,800 660,200 660,600 2,600 0.4% 2,200 0.3% Professional, Scientific, and Technical Services 319,500 317,900 313,100 1,600 0.5% 6,400 2.0% Management of Companies and Enterprises 69,900 70,600 70,700 -700 -1.0% 800	Trade, Transportation, and Utilities	810,200	810,300	808,200	-100	0.0%	2,000	0.2%
Transportation, Warehousing, and Utilities 177,300 177,000 178,600 300 0.2% -1,300 -0.7% Information 56,500 57,000 55,900 -500 -0.9% 600 1.1% Financial Activities 228,400 228,200 234,300 200 0.1% -5,900 -2.5% Finance and Insurance 170,700 171,200 176,900 -500 -0.3% -6,200 -3.5% Real Estate and Rental and Leasing 57,700 57,000 57,400 700 1.2% 300 0.5% Professional and Business Services 662,800 660,200 660,600 2,600 0.4% 2,200 0.3% Professional, Scientific, and Technical Services 319,500 317,900 313,100 1,600 0.5% 6,400 2.0% Management of Companies and Enterprises 69,900 70,600 70,700 -700 -1.0% -800 -1.1% Administrative and Support and Waste Management and Remediation Services 677,400 675,500 658,000 1,900 0.3% 19,400 2.9% Education and Health Services 77,400 76,800 72,300 600 0.8% 5,100 7.1% Health Care and Social Assistance 600,000 598,700 585,700 1,300 0.2% 14,300 2.4% Accommodation and Recreation 53,400 53,200 414,900 401,200 -1,700 -0.4% 12,000 3.0% Accommodation and Food Services 160,700 161,000 163,400 -300 0.2% 2,700 -1.7% Government 604,700 603,300 585,400 1,400 0.2% 19,300 3.3% Federal Government 55,800 55,500 54,200 300 0.5% 1,600 3.0% 586 Constitution of the services 181,800 181,300 176,200 500 0.3% 5,600 3.2%	Wholesale Trade	180,400	179,700	171,400	700	0.4%	9,000	5.3%
Information 56,500 57,000 55,900 -500 -0.9% 600 1.1% Financial Activities 228,400 228,200 234,300 200 0.1% -5,900 -2.5% Finance and Insurance 170,700 171,200 176,900 -500 -0.3% -6,200 -3.5% Real Estate and Rental and Leasing 57,700 57,000 57,400 700 1.2% 300 0.5% Professional and Business Services 662,800 660,200 660,600 2,600 0.4% 2,200 0.3% Professional, Scientific, and Technical Services 319,500 317,900 313,100 1,600 0.5% 6,400 2.0% Management of Companies and Enterprises 69,900 70,600 70,700 -700 -1.0% -800 -1.1% Administrative and Support and Waste Management and Remediation Services 273,400 271,700 276,800 1,700 0.6% -3,400 -1.2% Education and Health Services 677,400 675,500 658,000 1,900 0.3% 19,400 2.9% Education al Services 77,400 76,800 72,300 600 0.8% 5,100 7.1% Health Care and Social Assistance 600,000 598,700 585,700 1,300 0.2% 14,300 2.4% Leisure and Hospitality 413,200 414,900 401,200 -1,700 -0.4% 12,000 3.0% Arts, Entertainment, and Recreation 53,400 53,200 49,800 200 0.4% 3,600 7.2% Accommodation and Food Services 160,700 161,000 163,400 -300 -0.2% -2,700 -1.7% Government 604,700 603,300 585,400 1,400 0.2% 19,300 3.3% Federal Government 55,800 55,500 54,200 300 0.5% 1,600 3.0% State Government 181,800 181,300 176,200 500 0.03% 5,600 3.2%	Retail Trade	452,500	453,600	458,200	-1,100	-0.2%	-5,700	-1.2%
Financial Activities 228,400 228,200 234,300 200 0.1% -5,900 -2.5% Finance and Insurance 170,700 171,200 176,900 -500 -0.3% -6,200 -3.5% Real Estate and Rental and Leasing 57,700 57,000 57,400 700 1.2% 300 0.5% Professional and Business Services 662,800 660,200 660,600 2,600 0.4% 2,200 0.3% Professional, Scientific, and Technical Services 319,500 317,900 313,100 1,600 0.5% 6,400 2.0% Management of Companies and Enterprises 69,900 70,600 70,700 -700 -1.0% -800 -1.1% Administrative and Support and Waste Management and Remediation Services 273,400 271,700 276,800 1,700 0.6% -3,400 -1.2% Education and Health Services 677,400 675,500 658,000 1,900 0.3% 19,400 2.9% Educational Services 77,400 76,800 72,300 600 0.8% 5,100 7.1% Health Care and Social Assistance 600,000 598,700 585,700 1,300 0.2% 14,300 2.4% Leisure and Hospitality 413,200 414,900 401,200 -1,700 -0.4% 12,000 3.0% Arts, Entertainment, and Recreation 53,400 53,200 49,800 200 0.4% 3,600 7.2% Accommodation and Food Services 160,700 161,000 163,400 -300 -0.5% 8,400 2.4% Other Services 160,700 161,000 163,400 -300 -0.5% 8,400 2.4% Government 604,700 603,300 585,400 1,400 0.2% 19,300 3.3% Federal Government 55,800 55,500 54,200 300 0.5% 1,600 3.0% State Government 181,800 181,300 176,200 500 0.3% 5,600 3.2%	Transportation, Warehousing, and Utilities	177,300	177,000	178,600	300	0.2%	-1,300	-0.7%
Finance and Insurance 170,700 171,200 176,900 -500 -0.3% -6,200 -3.5% Real Estate and Rental and Leasing 57,700 57,000 57,400 700 1.2% 300 0.5% Real Estate and Rental and Leasing 57,700 660,200 660,600 2,600 0.4% 2,200 0.3% Professional and Business Services 662,800 660,200 660,600 2,600 0.4% 2,200 0.3% Professional, Scientific, and Technical Services 319,500 317,900 313,100 1,600 0.5% 6,400 2.0% Management of Companies and Enterprises 69,900 70,600 70,700 -700 -1.0% -800 -1.1% Administrative and Support and Waste Management and Remediation Services 273,400 271,700 276,800 1,700 0.6% -3,400 -1.2% Education and Health Services 677,400 675,500 658,000 1,900 0.3% 19,400 2.9% Education and Health Services 77,400 76,800 72,300 600 0.8% 5,100 7.1% Health Care and Social Assistance 600,000 598,700 585,700 1,300 0.2% 14,300 2.4% Ats, Entertainment, and Recreation 53,400 414,900 401,200 -1,700 -0.4% 12,000 3.0% Arts, Entertainment, and Recreation 53,400 53,200 49,800 200 0.4% 3,600 7.2% Accommodation and Food Services 160,700 161,000 163,400 -300 -0.5% 8,400 2.4% Government 604,700 603,300 585,400 1,400 0.2% 19,300 3.3% Federal Government 55,800 55,500 54,200 300 0.5% 1,600 3.0% State Government 181,800 181,300 176,200 500 0.3% 5,600 3.2%	Information	56,500	57,000	55,900	-500	-0.9%	600	1.1%
Real Estate and Rental and Leasing 57,700 57,000 57,400 700 1.2% 300 0.5% Professional and Business Services 662,800 660,200 660,600 2,600 0.4% 2,200 0.3% Professional, Scientific, and Technical Services 319,500 317,900 313,100 1,600 0.5% 6,400 2.0% Management of Companies and Enterprises 69,900 70,600 70,700 -700 -1.0% -800 -1.1% Administrative and Support and Waste Management and Remediation Services 273,400 271,700 276,800 1,700 0.6% -3,400 -1.2% Education and Health Services 677,400 675,500 658,000 1,900 0.3% 19,400 2.9% Educational Services 77,400 76,800 72,300 600 0.8% 5,100 7.1% Health Care and Social Assistance 600,000 598,700 585,700 1,300 0.2% 14,300 2.4% Leisure and Hospitality 413,200 414,900 401,200	Financial Activities	228,400	228,200	234,300	200	0.1%	-5,900	-2.5%
Professional and Business Services 662,800 660,200 660,600 2,600 0.4% 2,200 0.3% Professional, Scientific, and Technical Services 319,500 317,900 313,100 1,600 0.5% 6,400 2.0% Management of Companies and Enterprises 69,900 70,600 70,700 -700 -1.0% -800 -1.1% Administrative and Support and Waste Management and Remediation Services 273,400 271,700 276,800 1,700 0.6% -3,400 -1.2% Education and Health Services 677,400 675,500 658,000 1,900 0.3% 19,400 2.9% Educational Services 77,400 76,800 72,300 600 0.8% 5,100 7.1% Health Care and Social Assistance 600,000 598,700 585,700 1,300 0.2% 14,300 2.4% Leisure and Hospitality 413,200 414,900 401,200 -1,700 -0.4% 12,000 3.0% Arts, Entertainment, and Recreation 53,400 53,200 49,800 200 0.4% 3,600 7.2% Accommodation and Food Services 359,800 361,700 351,400 -1,900 -0.5% 8,400 2.4% Other Services 160,700 161,000 163,400 -300 -0.2% -2,700 -1.7% Government 604,700 603,300 585,400 1,400 0.2% 19,300 3.3% Federal Government 55,800 55,500 54,200 300 0.5% 1,600 3.2% State Government 181,800 181,300 176,200 500 0.3% 5,600 3.2%	Finance and Insurance	170,700	171,200	176,900	-500	-0.3%	-6,200	-3.5%
Professional, Scientific, and Technical Services 319,500 317,900 313,100 1,600 0.5% 6,400 2.0% Management of Companies and Enterprises 69,900 70,600 70,700 -700 -1.0% -800 -1.1% Administrative and Support and Waste Management and Remediation Services 273,400 271,700 276,800 1,700 0.6% -3,400 -1.2% Education and Health Services 677,400 675,500 658,000 1,900 0.3% 19,400 2.9% Educational Services 77,400 76,800 72,300 600 0.8% 5,100 7.1% Health Care and Social Assistance 600,000 598,700 585,700 1,300 0.2% 14,300 2.4% Leisure and Hospitality 413,200 414,900 401,200 -1,700 -0.4% 12,000 3.0% Arts, Entertainment, and Recreation 53,400 53,200 49,800 200 0.4% 3,600 7.2% Accommodation and Food Services 359,800 361,700 351,400	Real Estate and Rental and Leasing	57,700	57,000	57,400	700	1.2%	300	0.5%
Management of Companies and Enterprises 69,900 70,600 70,700 -700 -1.0% -800 -1.1% Administrative and Support and Waste Management and Remediation Services 273,400 271,700 276,800 1,700 0.6% -3,400 -1.2% Education and Health Services 677,400 675,500 658,000 1,900 0.3% 19,400 2.9% Educational Services 77,400 76,800 72,300 600 0.8% 5,100 7.1% Health Care and Social Assistance 600,000 598,700 585,700 1,300 0.2% 14,300 2.4% Leisure and Hospitality 413,200 414,900 401,200 -1,700 -0.4% 12,000 3.0% Arts, Entertainment, and Recreation 53,400 53,200 49,800 200 0.4% 3,600 7.2% Accommodation and Food Services 359,800 361,700 351,400 -1,900 -0.5% 8,400 2.4% Other Services 160,700 161,000 163,400 -300	Professional and Business Services	662,800	660,200	660,600	2,600	0.4%	2,200	0.3%
Administrative and Support and Waste Management and Remediation Services 273,400 271,700 276,800 1,700 0.6% -3,400 -1.2% Education and Health Services 677,400 675,500 658,000 1,900 0.3% 19,400 2.9% Educational Services 77,400 76,800 72,300 600 0.8% 5,100 7.1% Health Care and Social Assistance 600,000 598,700 585,700 1,300 0.2% 14,300 2.4% Leisure and Hospitality 413,200 414,900 401,200 -1,700 -0.4% 12,000 3.0% Arts, Entertainment, and Recreation 53,400 53,200 49,800 200 0.4% 3,600 7.2% Accommodation and Food Services 359,800 361,700 351,400 -1,900 -0.5% 8,400 2.4% Other Services 160,700 161,000 163,400 -300 -0.2% -2,700 -1.7% Government 604,700 603,300 585,400 1,400 0.2% 19,300 3.3% Federal Government 55,800 55,500 54,200 300 0.5% 1,600 3.0% State Government 181,800 181,300 176,200 500 0.3% 5,600 3.2%	Professional, Scientific, and Technical Services	319,500	317,900	313,100	1,600	0.5%	6,400	2.0%
Management and Remediation Services 273,400 271,700 276,800 1,700 0.6% -3,400 -1.2% Education and Health Services 677,400 675,500 658,000 1,900 0.3% 19,400 2.9% Educational Services 77,400 76,800 72,300 600 0.8% 5,100 7.1% Health Care and Social Assistance 600,000 598,700 585,700 1,300 0.2% 14,300 2.4% Leisure and Hospitality 413,200 414,900 401,200 -1,700 -0.4% 12,000 3.0% Arts, Entertainment, and Recreation 53,400 53,200 49,800 200 0.4% 3,600 7.2% Accommodation and Food Services 359,800 361,700 351,400 -1,900 -0.5% 8,400 2.4% Other Services 160,700 161,000 163,400 -300 -0.2% -2,700 -1.7% Government 55,800 55,500 54,200 300 0.5% 1,600 3.0%	Management of Companies and Enterprises	69,900	70,600	70,700	-700	-1.0%	-800	-1.1%
Educational Services 77,400 76,800 72,300 600 0.8% 5,100 7.1% Health Care and Social Assistance 600,000 598,700 585,700 1,300 0.2% 14,300 2.4% Leisure and Hospitality 413,200 414,900 401,200 -1,700 -0.4% 12,000 3.0% Arts, Entertainment, and Recreation 53,400 53,200 49,800 200 0.4% 3,600 7.2% Accommodation and Food Services 359,800 361,700 351,400 -1,900 -0.5% 8,400 2.4% Other Services 160,700 161,000 163,400 -300 -0.2% -2,700 -1.7% Government 604,700 603,300 585,400 1,400 0.2% 19,300 3.3% Federal Government 55,800 55,500 54,200 300 0.5% 1,600 3.0% State Government 181,800 181,300 176,200 500 0.3% 5,600 3.2%		273,400	271,700	276,800	1,700	0.6%	-3,400	-1.2%
Health Care and Social Assistance 600,000 598,700 585,700 1,300 0.2% 14,300 2.4% Leisure and Hospitality 413,200 414,900 401,200 -1,700 -0.4% 12,000 3.0% Arts, Entertainment, and Recreation 53,400 53,200 49,800 200 0.4% 3,600 7.2% Accommodation and Food Services 359,800 361,700 351,400 -1,900 -0.5% 8,400 2.4% Other Services 160,700 161,000 163,400 -300 -0.2% -2,700 -1.7% Government 604,700 603,300 585,400 1,400 0.2% 19,300 3.3% Federal Government 55,800 55,500 54,200 300 0.5% 1,600 3.0% State Government 181,800 181,300 176,200 500 0.3% 5,600 3.2%	Education and Health Services	677,400	675,500	658,000	1,900	0.3%	19,400	2.9%
Leisure and Hospitality 413,200 414,900 401,200 -1,700 -0.4% 12,000 3.0% Arts, Entertainment, and Recreation 53,400 53,200 49,800 200 0.4% 3,600 7.2% Accommodation and Food Services 359,800 361,700 351,400 -1,900 -0.5% 8,400 2.4% Other Services 160,700 161,000 163,400 -300 -0.2% -2,700 -1.7% Government 604,700 603,300 585,400 1,400 0.2% 19,300 3.3% Federal Government 55,800 55,500 54,200 300 0.5% 1,600 3.0% State Government 181,800 181,300 176,200 500 0.3% 5,600 3.2%	Educational Services	77,400	76,800	72,300	600	0.8%	5,100	7.1%
Arts, Entertainment, and Recreation 53,400 53,200 49,800 200 0.4% 3,600 7.2% Accommodation and Food Services 359,800 361,700 351,400 -1,900 -0.5% 8,400 2.4% Other Services 160,700 161,000 163,400 -300 -0.2% -2,700 -1.7% Government 604,700 603,300 585,400 1,400 0.2% 19,300 3.3% Federal Government 55,800 55,500 54,200 300 0.5% 1,600 3.0% State Government 181,800 181,300 176,200 500 0.3% 5,600 3.2%	Health Care and Social Assistance	600,000	598,700	585,700	1,300	0.2%	14,300	2.4%
Accommodation and Food Services 359,800 361,700 351,400 -1,900 -0.5% 8,400 2.4% Other Services 160,700 161,000 163,400 -300 -0.2% -2,700 -1.7% Government 604,700 603,300 585,400 1,400 0.2% 19,300 3.3% Federal Government 55,800 55,500 54,200 300 0.5% 1,600 3.0% State Government 181,800 181,300 176,200 500 0.3% 5,600 3.2%	Leisure and Hospitality	413,200	414,900	401,200	-1,700	-0.4%	12,000	3.0%
Other Services 160,700 161,000 163,400 -300 -0.2% -2,700 -1.7% Government 604,700 603,300 585,400 1,400 0.2% 19,300 3.3% Federal Government 55,800 55,500 54,200 300 0.5% 1,600 3.0% State Government 181,800 181,300 176,200 500 0.3% 5,600 3.2%	Arts, Entertainment, and Recreation	53,400	53,200	49,800	200	0.4%	3,600	7.2%
Government 604,700 603,300 585,400 1,400 0.2% 19,300 3.3% Federal Government 55,800 55,500 54,200 300 0.5% 1,600 3.0% State Government 181,800 181,300 176,200 500 0.3% 5,600 3.2%	Accommodation and Food Services	359,800	361,700	351,400	-1,900	-0.5%	8,400	2.4%
Federal Government 55,800 55,500 54,200 300 0.5% 1,600 3.0% State Government 181,800 181,300 176,200 500 0.3% 5,600 3.2%	Other Services	160,700	161,000	163,400	-300	-0.2%	-2,700	-1.7%
State Government 181,800 181,300 176,200 500 0.3% 5,600 3.2%	Government	604,700	603,300	585,400	1,400	0.2%	19,300	3.3%
	Federal Government	55,800	55,500	54,200	300	0.5%	1,600	3.0%
Local Government 367,100 366,500 355,000 600 0.2% 12,100 3.4%	State Government	181,800	181,300	176,200	500	0.3%	5,600	3.2%
	Local Government	367,100	366,500	355,000	600	0.2%	12,100	3.4%

Source: Current Employment Statistics, Michigan Center for Data and Analytics, Michigan Department of Technology, Management & Budget

2022 MEDIAN WAGE BY MICHIGAN COUNTY



JOHN DILLON **Economic Analyst**



2022 OCCUPATIONAL EMPLOYMENT AND WAGE TRENDS

Each year, the Michigan Center for Data and Analytics conducts the Occupational Employment and Wage Statistics (OEWS) survey, which is a federal-state cooperative program with the U.S. Bureau of Labor Statistics (BLS). This program annually surveys approximately 400,000 nonfarm establishments nationwide (including 11,000 in Michigan) to collect employment and wage information for over 800 Standard Occupational Classification job titles. This is the only official survey that provides employment levels and wages for individual occupations for the nation, states, and local areas.

Methodology and Impact of COVID-19

The OEWS estimates are formed using three years of data collected in six semiannual panels. This means some of the data used to form these estimates were collected prior to the pandemic as well as in months at the height of

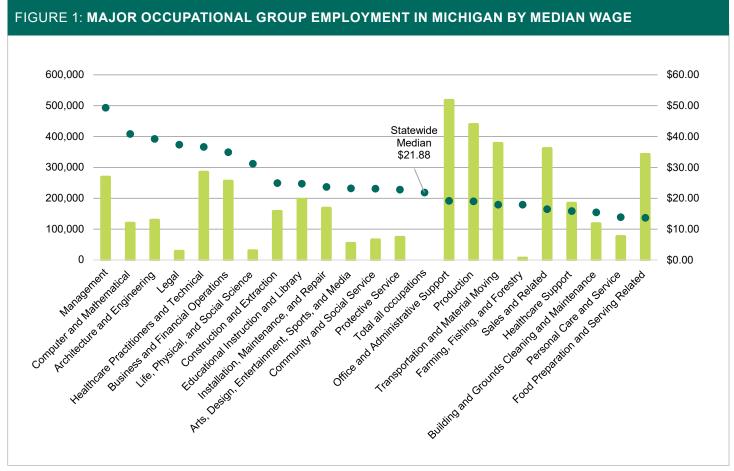
the pandemic. The OEWS then benchmarks the data to a census of employment tallied from another BLS program to create employment estimates that better represent the year being estimated. However, the survey data collected from businesses in the more recent pandemic years have had a substantial impact on the structure of occupations, industries, and wages in Michigan. The OEWS estimates are created to be a snapshot of occupations and wages each year and are not optimized to be analyzed as a time series. However, due to the structural changes in the employment of major occupational groups and the detailed occupations within them, some comparisons to the previous year helps to clarify how jobs and wages have adjusted since the pandemic.

Michigan and the U.S.

Michigan's occupational employment increased 4.6 percent in 2022 to a total of 4,247,470, which accounts for 2.9 percent of the total

occupational employment in the nation. Over the same period, U.S. total occupational employment rose by 5.0 percent. Jobs in Michigan and the U.S. declined sharply in 2020 during the pandemic but have climbed back up in the following years. In 2022, the national occupational employment surpassed 2019 pre-COVID-19 levels for the first time. Michigan, which lost a greater proportion of its jobs in 2020 than the U.S., trails its own 2019 total by 2.2 percent. Michigan's occupational employment total ranks 10th among all states.

One year after leading all states in median wage growth in 2021, Michigan's median wage remained stagnant in 2022 at \$21.88 per hour, representing a 0.7 percent increase. The national median wage increased 1.2 percent in 2022 to \$22.26 per hour. Michigan's median wage ranked 23rd among U.S. states in 2022 after ranking 21st in 2021.



Significant Changes in Employment

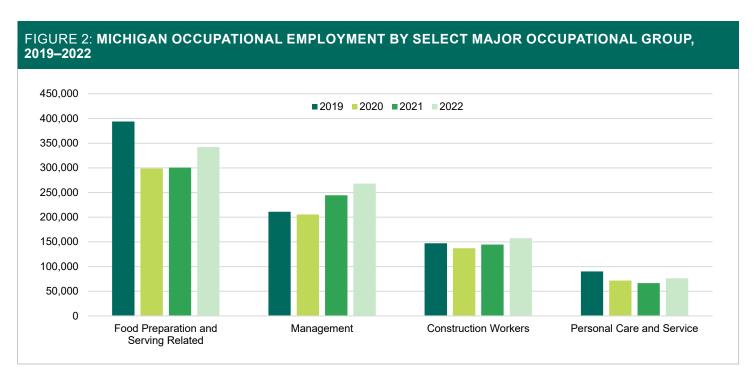
In 2022, Michigan added over 187,000 jobs and employment grew in nearly every major occupational group, with only Sales and related occupations losing just over 1,000 employees. Michigan's stagnant median wage growth in 2022 can be partially attributed to the fact that more of these new jobs were in low-wage occupations, whereas in 2021 the median wage was boosted by growing employment in highwage occupation groups. Specifically, of the 136,000 jobs added across all occupations in 2021, 85,000 were in jobs with a median wage above what most people earn in the state. Of the 187,000 jobs added in 2022, nearly 106,000 were added in major occupational groups that paid lower-than-typical hourly wages. Also of note, many of the jobs added in 2022 are in major occupational groups in which employment was significantly negatively affected by the pandemic, such as Food preparation and serving related occupations and Personal care and service occupations, indicating a bounce back in employment in many of the jobs lost during the pandemic.

Food preparation and serving related occupations, which had the lowest median wage of any major occupational group in the state, contributed to the greatest net increase in employment, adding over 41,000 jobs. Many of these jobs were in traditional restaurant/dining occupations, including Waiters and waitresses (+15,000), Restaurant cooks (+7,000), Bartenders (+4,000), and Dishwashers (+2,500). Employment in this major occupational group increased 13.8 percent in 2022, after dropping 24.2 percent in 2020 and only rising 0.6 percent in 2021. Overall, this major occupational group still lags its 2019 pre-COVID-19 employment total by 13 percent. The occupations within this group also saw some wage growth, as the median wage among Food preparation and serving related occupations increased from \$12.94 per hour to \$13.67 (+5.6 percent).

Personal care and service occupations are also still approaching pre-COVID-19 employment levels. After sustaining employment declines of 20.4 percent in 2020 and 7.5 percent in 2021, this major occupational group rebounded 14.6 percent

in 2022. This was the highest percentage increase of any major occupational group. The two occupations that saw the greatest absolute employment increase within this group in 2022 were *Childcare workers* and *Amusement and recreation attendants*, with an increase of about 3,000 jobs in both. Wages for these workers remained mostly flat, with the median wage increasing just 1.2 percent.

One year after leading the state in employment and wage growth, Management occupations finished with the second-highest gross employment change, adding over 23,000 jobs for a 9.6 percent increase. Of the top five major occupational groups that added the most employees in 2022, this was the only group that had a median wage above the statewide median. In fact, Management occupations have the highest median wage of any major occupational group: \$49.38 after increasing 3.4 percent in 2022. The Management occupations that added the most jobs in Michigan in 2022 are General and operational managers, Financial managers, and Computer and information systems managers.



Construction and extraction occupations in Michigan also saw a sizable jump in employment in 2022, up over 12,500 jobs which equates to an 8.8 percent increase. This is one of the only occupational groups to see an increase of at least 6 percent in both employment and median wage across the state (the other being Computer and mathematical occupations). The median wage for workers in this occupational group rose 6.6 percent to \$24.94. The Construction and extraction occupations in the state that saw the greatest increase in jobs were Carpenters, Electricians, and General construction laborers.

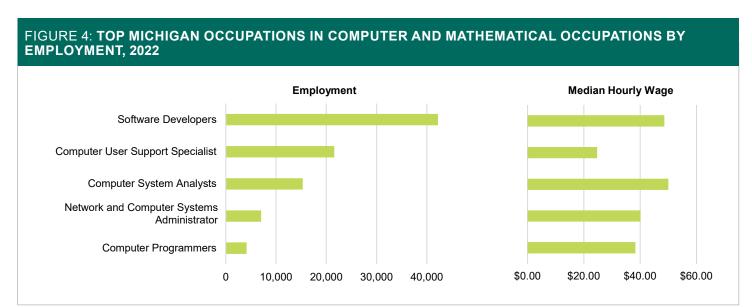
Significant Wage Changes

Michigan posted a small 0.7 percent increase in its median wage in 2022 after leading the country in 2021 with a gain of 10.5 percent. The reduced figure is more in line with historical returns, as the average median wage increase was 2.4 percent in the three years leading up to the pandemic. Nearly every major occupational group did see some wage growth in 2022 despite the meager overall increase.

The median wage among *Sales and related* occupations saw significant growth in 2022 with an increase of 14.6 percent. The two

most populous occupations within this major group, Cashiers and Retail salespersons, saw median wage increases of 14.5 and 4.2 percent, respectively. Sales and related occupations was one of two major occupational groups to see a reduction in overall employment in the state (the other was Protective service occupations). A reduction of over 7,500 cashiers, the lowest wage occupation among Sales and related occupations, contributed to the overall median wage increase among sales workers. This contrasts with what's occurred in other major occupational groups, such as Food preparation and serving related occupations, where





employment growth was strongest in low wage occupations.

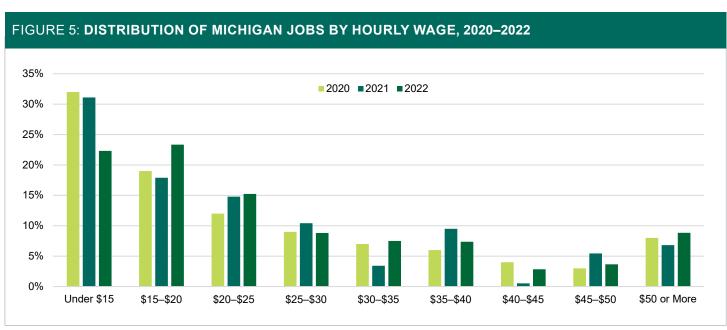
Computer and mathematical occupations also saw strong median wage growth in 2022, increasing 7.6 percent to \$40.88 per hour, which ranks 28th among U.S. states. The median wage among these occupations remains the second highest in the state after overtaking Architecture and engineering occupations in 2021. The highest occupational employment from this group in the state is Software developers, which earn a median wage of \$48.59. The detailed occupation with the highest median wage in this group was Computer and information research scientists at \$58.24, narrowly beating out Computer network architects.

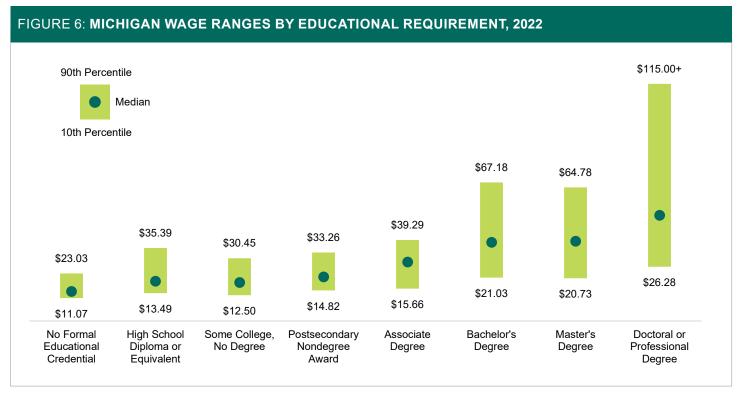
Michigan has long been home to a strong concentration of Production workers. Nationally, this is the eighth most populous major occupational group. In Michigan, however, Production workers are the second most common type of worker, totaling over 438,000 in 2022 and representing 10.3 percent of the overall workforce. Production workers saw a 4.6 percent median wage increase in 2022 to \$19.02. Wage growth in Michigan has closely tracked national trends for Production workers over the past three years.

Figure 5 shows the distribution of jobs by wage interval over the past three years. A notable difference in 2022 is a 9 percent reduction in the share of jobs under \$15 per hour. The wage interval encompassing jobs ranging from \$15 to \$20 per hour experienced a substantial share increase, with a significant rise of 5.4 percent in 2022. This indicates that the largest movement of jobs among wage intervals occurred from the category below \$15 per hour to the range between \$15 and \$20 per hour.

STEM

Science, technology, engineering, and math (STEM) occupations include computer and





mathematical, architecture and engineering, and life and physical science occupations, as well as managerial and postsecondary teaching occupations related to these functional areas and sales occupations requiring scientific or technical knowledge at the postsecondary level. Most of the occupations in this group of occupations require at least a bachelor's degree. With a median wage of \$38.53 per hour this is a well-paid occupational group, even though the median wage has decreased 5 percent since 2020 and is well below the national median STEM wage of \$45.87 per hour.

This group made up 7.2 percent of total jobs in Michigan, ranking it 11th nationally.

The Detroit metropolitan statistical area held the highest number of STEM occupations in Michigan, totaling 161,830 jobs. Meanwhile, Ann Arbor ranked 25th nationally among metro areas with the highest STEM concentration, accounting for 9.7 percent of all jobs in the region. Along with Detroit and Ann Arbor, Midland and Lansing were also in the top 75 areas by percentage of STEM iobs.

Software developers have now surpassed Mechanical engineers as the most prominent STEM occupation in the state. This shift can be partially attributed to a coding change that merged two occupations into one, making Software developers a prominent and

widespread profession nationwide. Michigan, however, ranks first nationally for employment levels of Mechanical engineers, with nearly 12 percent of all Mechanical engineers in the United States. This is likely due to the state's substantial production activities, particularly within the automobile industry. The median wage for Mechanical engineers was \$45.90 per hour, almost as much as the national median wage of \$46.31 per hour.

The wage ranges (10th to 90th percentile) for occupations, categorized by their typical entrylevel education requirements, are depicted in Figure 6. The figure shows a positive correlation between wages and higher education levels. Employees are more likely to earn higher wages with a high school diploma or equivalent than workers with no formal educational credential, for both entry level and experienced level. The upper wage range for those with just a high school diploma was greater than the upper wage range for occupations requiring some college, no degree or a postsecondary nondegree award. There was little difference between the wages for jobs typically requiring a high school diploma or a postsecondary nondegree award, with the median and starting wages being only slightly higher for those with a postsecondary nondegree award.

Having a bachelor's degree provides the potential to earn a much higher wage. The 10th percentile wage for occupations requiring a bachelor's degree was over 30 percent higher than for those requiring an associate degree. At the 90th percentile, jobs that require a bachelor's degree earned wages higher than those requiring a master's degree and were over 70 percent higher than the wage for those requiring an associate degree.

The widest wage variance was seen in jobs requiring a doctoral or professional degree (\$26.28 per hour to \$115+ per hour). Most occupations requiring a doctoral or professional degree are among Life, physical, and social science occupations; Legal occupations; Educational instruction and library occupations and Health practitioners and technical occupations.

The distribution of jobs by educational requirement in Michigan is displayed in Figure 7. Occupations requiring only a high school diploma or less made up over 60 percent of jobs in Michigan, while over one-quarter of jobs required a bachelor's degree or higher. The share of employment requiring a bachelor's degree or higher showed little change since 2020, reflecting employment increases in jobs with lower education requirements. When reviewing growth since 2021, occupations typically requiring no formal education requirement increased by over 50 thousand jobs, likely due an increase among low-wage

FIGURE 7: MICHIGAN EMPLOYMENT BY EDUCATIONAL ATTAINMENT No Formal Educational Credential, 20.5% Doctoral or Professional Degree, 2.4% Postsecondary Nondegree Award, Master's Associate Degree, High School Diploma or Equivalent, 41.1% Bachelor's Degree, 23.6% Degree, 2.2% 1.7%

Source: 2022 Occupational Employment and Wage Statistics, Michigan Center for Data and Analytics

occupations at businesses previously closed due to the pandemic.

Michigan's overall distribution of jobs by educational requirement was similar to the nation at almost every level. Among metro areas nationally, Michigan's regions had high concentrations of jobs requiring a bachelor's degree. Ann Arbor was the area that had the highest share of jobs requiring a bachelor's degree at 32.9 percent of total jobs, ranking 9th among the 532 metropolitan areas published nationally. The next highest metro areas were Midland (26.7 percent) ranking 38th, followed by Detroit (25.6 percent) ranking 50th, and Lansing (25.4 percent) ranking 54th.

Conclusion

Overall, Michigan saw employment and wage growth in 2022 mostly in line with the national economy. In 2021, a reduction in some lowwage occupations and employment growth among higher-wage occupations contributed to significant gains in the state's overall median wage. In 2022, the state registered only a small increase in the median wage due to growth in low-wage occupations still recovering from the

pandemic, namely Food preparation and serving related occupations and Personal care and service occupations.

For access to this data and more labor data, visit www.Michigan.gov/LMI.

JOHN DILLON **Economic Analyst**

KRISTIN MILLER Departmental Analyst

JOB ADVERTISEMENTS INCREASE OVER THE MONTH, DECLINE OVER THE YEAR

There were just under 248,000 online job advertisements for the month of April 2023. This was a significant 12.7 percent increase from March, which had just under 220,000 advertisements. Although there was an increase in ads from the previous month, this was a decrease in advertisements from April 2022, which had over 301.000 ads.

Supply/Demand Rate Continues to Fall in 2023

The supply/demand rate has decreased each month since the start of 2023. In April, the rate of 0.57 represents approximately 57 unemployed persons for every 100 available online job advertisements. The consistent lowering of the supply/demand rate is due to a combination of less unemployed Michigan residents and increased online job advertisements.

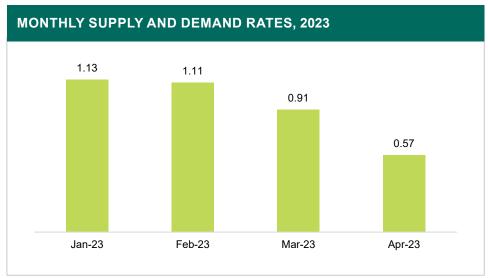
Top Five Most Advertised Occupations Remain Constant

The most advertised occupations for April 2023 were Registered nurses (12,640 ads); Retail salespersons (8,250 ads); First-line supervisors of retail sales workers (6,110 ads); Sales representatives, wholesale and manufacturing (5,100 ads); and Software developers (4,850 ads). These occupations have remained in the topmost advertised jobs since January of 2023, indicating their consistent demand since the beginning of the year. Registered nurses are especially in high demand because there have been more than 10,000 online advertisements for the occupation every month since October 2021, in Michigan.

Internship Opportunities Peak in Spring Months

Internship opportunities typically begin to increase at the beginning of the fall semester before reaching their peak in late spring. These opportunities can assist young adults who are starting their exploration of future careers. In April 2023, there were just under 4,500 available postings for internships throughout the state. The cities that produced the most internship advertisements were Lansing, Detroit, Ann Arbor, and Grand Rapids. Each of which had over 300 available online internship advertisements.





Source: Local Area Unemployment Statistics, Michigan Center for Data and Analytics; Help Wanted OnLine, Lightcast Developer

Internship advertisements spanned a range of industries, but the top five most advertised were Manufacturing, Professional, scientific, and technical services; Health care and social assistance; Finance and insurance; and Wholesale trade. The companies that posted the highest number of internship advertisements were the State of Michigan, Intel, Tenneco, Magna, and Ascension, each with more than 75

openings during April. In terms of skills sought out in internship postings, communication, writing, leadership, Microsoft Excel, and research were among the most requested common skillsets.

TRISHA SCHLEGEL **Economic Analyst**



UNEMPLOYED TO JOB OPENINGS RATIO REACHES HIGHEST LEVEL IN ALMOST TWO YEARS

The job openings rate in Michigan declined by 0.3 percentage points from February to March (5.3 percent) according to the latest release of the Job Opening and Labor Turnover Survey (JOLTS). The separations rate (3.8 percent), the quits rate (2.9 percent), the labor turnover rate (7.5 percent), and the unemployed to job openings ratio (0.81) all increased over the month. The hires rate was stagnant at 3.7 percent for a second consecutive month.

Job Openings Down in March

In March, job openings in Michigan decreased by 15,000, dropping from 262,000 to 247,000. This decline resulted in the job openings rate falling to 5.3 percent, lower than the national rate of 5.8 percent and ranking Michigan 10th lowest among all states.

The unemployed to job openings ratio experienced a slight increase from 0.79 in February to 0.81 in March. This ratio reached its highest level since April 2021, indicating that there were still more job openings than unemployed individuals.

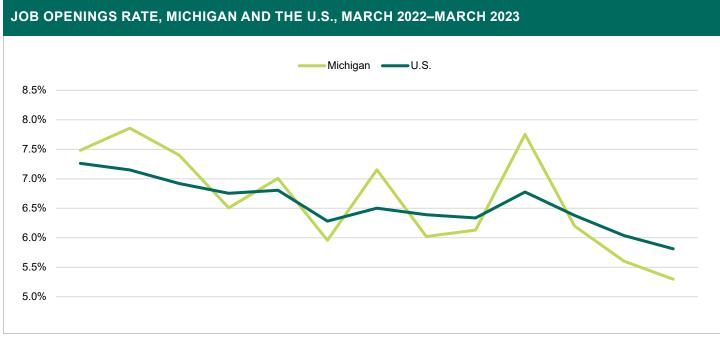
The Number of Hires Remain the Same in March

The number of hires in March remained stagnant at 3.7 percent, the same rate as the

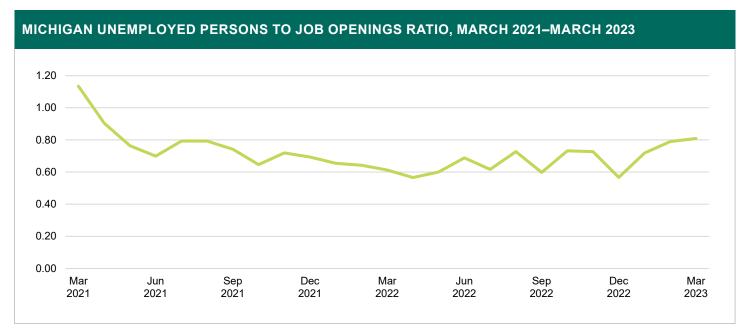
previous month. Michigan ranked 12th lowest among other states in this indicator, and was below the national rate of 4.0 percent.

Separations Experience a Slight Increase

Separations, which include both voluntary quits and involuntary layoffs or discharges, saw a slight increase in March. The separations rate rose by 0.7 percentage points to reach 3.8 percent. This increase translated to 32,000 more separations compared to the previous month. Michigan's separation rate was equal to the national rate over the same period.



Source: Job Openings and Labor Turnover Survey, U.S. Bureau of Labor Statistics



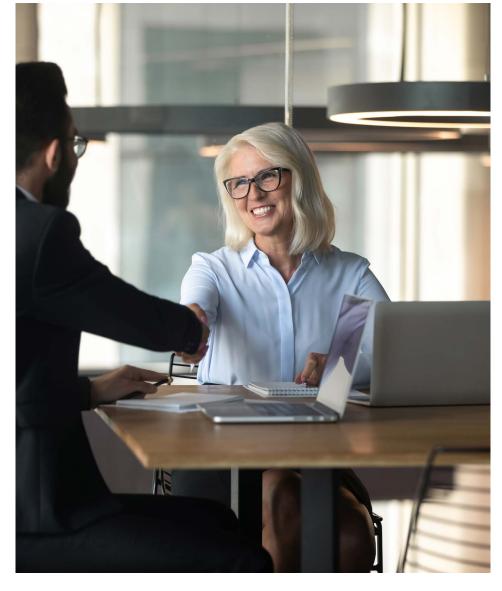
Source: Job Openings and Labor Turnover Survey, U.S. Bureau of Labor Statistics

The rise in separations was driven by an increase in both voluntary quits and involuntary layoffs or discharges. The quits rate increased by 0.3 percentage points to 2.2 percent in March, while the layoffs and discharges rate jumped to 1.5 percent. Michigan's quits rate ranked 11th lowest compared to other states, but was above the national rate for layoffs and discharges (1.2 percent).

Unemployed to Job Openings Ratio Hits a Near Two-Year High

The unemployed persons to job openings ratio is a metric that measures the current number of unemployed people relative to the availability of jobs. As mentioned earlier, this ratio recorded a high of 0.81, or eight unemployed persons per ten job openings. This was the highest this ratio has been since April 2021 (0.90). This can be attributed to both job openings and unemployment decreasing over the month, moving these two indicators closer to one another. The current recorded ratio makes the third consecutive month that this indicator has risen. With the ratio increasing for three consecutive months, it raises the possibility of a one-to-one relationship between job seekers and job openings in the future, meaning there would be an equal number of unemployed individuals and available jobs.

KRYSTAL JONES Economic Analyst



RELEVANT RANKINGS

MEDIAN WAGE CHANGE BY MICHIGAN PROSPERITY REGION 2021 2022 RANK PROSPERITY REGION **CHANGE MEDIAN WAGE MEDIAN WAGE** 10.3% \$18.29 \$20.18 Southwest 1 2 West 8.9% \$18.45 \$20.09 3 Upper Peninsula 6.8% \$18.03 \$19.26 \$19.09 4 East Central 5.5% \$18.09 \$18.80 5 Northwest 5.1% \$17.88 6 East 5.0% \$18.23 \$19.14 7 Northeast 2.9% \$17.63 \$18.14 8 **Detroit Metro** 1.4% \$22.94 \$23.26 9 South Central 0.9% \$22.81 \$23.02 10 Southeast 0.6% \$22.04 \$22.17

CHANGE IN EMPLOYMENT BY MAJOR OCCUPATIONAL GROUP IN MICHIGAN

RANK	OCCUPATIONS	CHANGE IN EMPLOYMENT	2021 EMPLOYMENT	2022 EMPLOYMENT
	Total All Occupations	4.6%	4,060,000	4,247,470
1	Personal Care and Service	14.6%	66,420	76,110
2	Food Preparation and Serving Related	13.8%	300,430	341,970
3	Management	9.6%	244,600	268,190
4	Construction and Extraction	8.8%	144,770	157,480
5	Arts, Design, Entertainment, Sports, and Media	6.7%	50,120	53,470
6	Transportation and Material Moving	6.4%	355,200	377,950
7	Computer and Mathematical	6.0%	112,080	118,860
8	Educational Instruction and Library	5.6%	186,010	196,360
9	Production	5.3%	416,810	438,970
10	Architecture and Engineering	3.9%	123,730	128,570
11	Legal	3.8%	27,010	28,040
12	Installation, Maintenance, and Repair	3.6%	162,000	167,810
13	Business and Financial Operations	3.4%	247,160	255,590
14	Community and Social Service	2.8%	63,310	65,100
15	Office and Administrative Support	2.5%	504,660	517,440
16	Life, Physical, and Social Science	2.0%	29,020	29,600
17	Healthcare Support	1.9%	180,620	183,990
18	Building and Grounds Cleaning and Maintenance	1.8%	115,130	117,180
19	Farming, Fishing, and Forestry	1.4%	5,580	5,660
20	Healthcare Practitioners and Technical	1.1%	281,180	284,380
21	Protective Service	-0.7%	73,930	73,410
22	Sales and Related	-2.3%	369,910	361,350



STATE OF MICHIGAN

Department of Technology, Management & Budget Michigan Center for Data and Analytics

Detroit Office

Cadillac Place 3032 West Grand Boulevard Suite 9-150 Detroit, Michigan 48202

Lansing Office

George W. Romney Building, Floor 5 111 S. Capitol Ave. Lansing, Michigan 48933