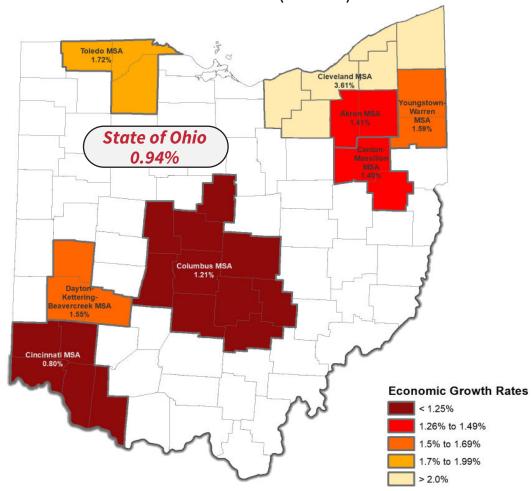


OHO LEADING INDICATORS JULY 2025

Predicted Annualized Growth Rates for Ohio and Select Metropolitan Statistical Areas (MSAs)

The Ohio Leading Indicators report uses an annualized growth rate to forecast employment growth for Ohio and its eight largest MSAs for the next six months. The model examines seasonally adjusted total nonfarm employment. These data are seasonally adjusted by the leading indicators model and should not be compared to other seasonally adjusted data.

Total employment is predicted to increase at an annual rate of 0.94% for the next six months in Ohio. The following MSAs are also predicted to increase: the Cincinnati MSA at 0.80%; the Columbus MSA at 1.21%; the Canton-Massillon MSA at 1.40%; the Akron MSA at 1.41%; the Dayton-Kettering-Beavercreek MSA at 1.55%; the Youngstown-Warren MSA at 1.59%; the Toledo MSA at 1.72%; and the Cleveland MSA at 3.61%.

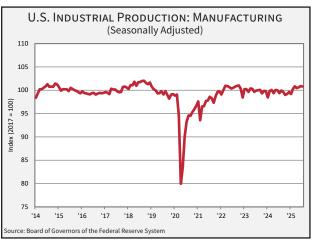


LEADING INDICATORS AND COMPONENTS

UNITED STATES

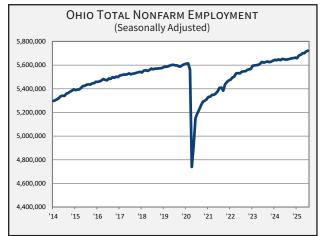
The U.S. Leading Economic Index increased 0.1% from June but decreased 3.4% from July 2024. The U.S. industrial production in manufacturing decreased 0.1% over the month but increased 1.4% over the year.

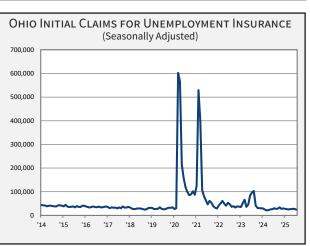


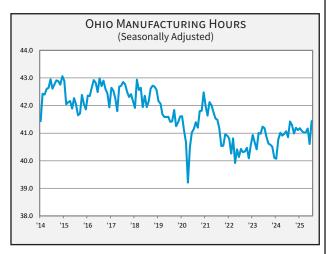


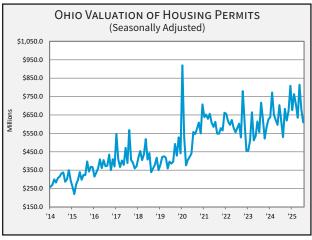
OHIO

Ohio's seasonally adjusted total nonfarm employment was 5,722,400 in July 2025, up 0.1% over the month and up 1.3% over the year. Initial unemployment claims decreased 13.5% from June and 20.2% from July 2024. Ohio's average weekly manufacturing hours increased 2.0% from June. Housing permit valuations decreased 10.4% from the previous month and 1.3% from the previous year. Building permit valuations for Ohio were higher than normal for October 2022, primarily driven by a larger-than-normal increase in the Akron MSA valuations.









LEADING INDICATORS AND COMPONENTS

United States	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Percent	, i
	2024	2024	2024	2024	2024	2024	2025	2025	2025	2025	2025	2025	2025	Month	Year
U.S. Leading Economic Index (2016 = 100) (Seasonally Adjusted)	102.4	102.1	101.7	101.4	101.7	101.6	101.4	101.2	100.4	99.1	99.1	98.8	98.9	0.1%	-3.4%
U.S. Industrial Production: Manufacturing (2017 = 100) (Seasonally Adjusted)	99.4	99.9	99.6	99.0	99.2	99.6	99.2	100.3	100.8	100.4	100.6	100.9	100.8	-0.1%	1.4%
Оніо	Jul 2024	Aug 2024	Sep 2024	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Percent Month	Change Year
Nonagricultural Wage and Salary Employment (Seasonally Adjusted in Thousands)	5,646.3	5,649.1	5,652.4	5,657.7	5,658.5	5,662.9	5,657.9	5,681.2	5,687.2	5,700.5	5,700.1	5,716.6	5,722.4	0.1%	1.3%
Initial Claims for Unemployment Insurance (Seasonally Adjusted)	30,143	27,898	28,191	34,360	27,502	29,717	27,790	25,943	25,312	27,138	27,940	27,795	24,055	-13.5%	-20.2%
Average Weekly Hours for Manufacturing (Seasonally Adjusted)	40.9	41.4	41.3	41.0	41.2	41.1	41.2	41.1	41.0	41.0	41.2	40.6	41.4	2.0%	1.2%
Valuation of Housing Permits (Seasonally Adjusted in Millions)	\$618.0	\$529.2	\$682.8	\$619.7	\$672.2	\$808.6	\$676.6	\$763.3	\$709.1	\$635.3	\$814.7	\$680.9	\$609.8	-10.4%	-1.3%

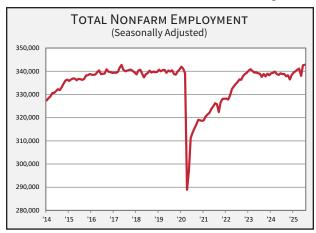
AKRON METROPOLITAN STATISTICAL AREA

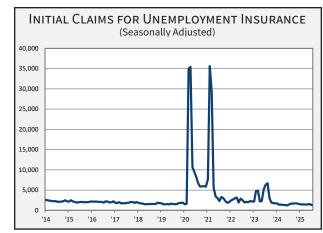
Portage and Summit Counties

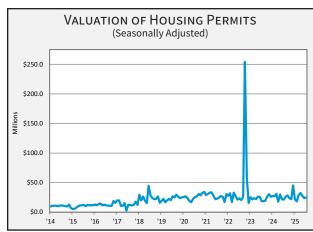
The leading indicator for the Akron metropolitan area for July 2025 forecasts employment growth at an annual rate of 1.41% for the next six months. Seasonally adjusted nonfarm payroll employment was 342,600 in July, up 1.4% from June.

The number of initial claims for unemployment insurance in July was 1,532 claims, 4.9% more than the number of claims filed last month and 26.2% more than last year. The valuation of permits for new housing construction in July was \$23.8 million, a 15.0% decrease from June but an 8.7% increase from July 2024. The Akron MSA reported an extremely high number of housing permits and valuations for October 2022, giving the permit data a stronger-than-normal effect on the October 2022 leading indicators for the Akron MSA.









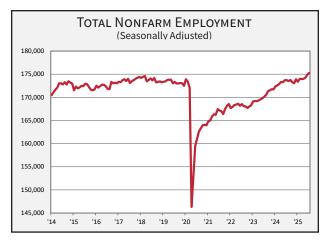
AKRON	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Percen	t Change
AKRON	2024	2024	2024	2024	2024	2024	2025	2025	2025	2025	2025	2025	2025	Month	Year
Nonagricultural Wage and Salary Employment (Seasonally Adjusted in Thousands)	339.1	338.8	338.8	337.8	338.3	336.5	338.5	339.4	340.0	340.6	341.2	338.0	342.6	1.4%	1.0%
Initial Claims for Unemployment Insurance (Seasonally Adjusted)	1,214	1,409	1,642	1,651	1,718	1,698	1,588	1,480	1,471	1,466	1,433	1,461	1,532	4.9%	26.2%
Average Weekly Hours for Manufacturing* (Seasonally Adjusted)	40.9	41.4	41.3	41.0	41.2	41.1	41.2	41.1	41.0	41.0	41.2	40.6	41.4	2.0%	1.2%
Valuation of Housing Permits (Seasonally Adjusted in Millions)	\$21.9	\$21.3	\$26.3	\$28.4	\$23.8	\$22.1	\$45.3	\$21.7	\$18.3	\$28.8	\$32.5	\$28.0	\$23.8	-15.0%	8.7%

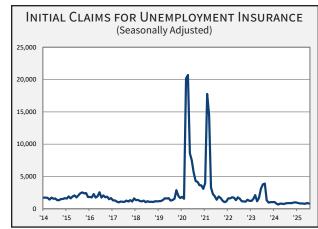
CANTON-MASSILLON METROPOLITAN STATISTICAL AREA Carroll and Stark Counties

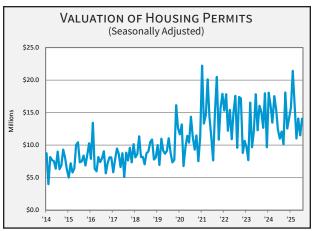
The leading indicator for the Canton-Massillon metropolitan area for July 2025 forecasts employment growth at an annual rate of 1.40% for the next six months. Seasonally adjusted nonfarm payroll employment was 175,300 in July, up 0.3% from June.

The number of initial claims for unemployment insurance in July was 809, down 8.0% from the number of claims filed last month and down 4.5% from last year. The valuation of permits for new housing construction in July was \$14.1 million, a 22.6% increase from one month ago and a 28.2% increase from one year ago.









CANTON	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Percent	t Change
CANTON	2024	2024	2024	2024	2024	2024	2025	2025	2025	2025	2025	2025	2025	Month	Year
Nonagricultural Wage and Salary Employment (Seasonally Adjusted in Thousands)	173.7	173.5	173.7	173.3	173.0	173.9	173.4	174.0	173.9	174.0	174.3	174.8	175.3	0.3%	0.9%
Initial Claims for Unemployment Insurance (Seasonally Adjusted)	847	869	882	859	958	996	916	830	814	796	772	880	809	-8.0%	-4.5%
Average Weekly Hours for Manufacturing* (Seasonally Adjusted)	40.9	41.4	41.3	41.0	41.2	41.1	41.2	41.1	41.0	41.0	41.2	40.6	41.4	2.0%	1.2%
Valuation of Housing Permits (Seasonally Adjusted in Millions)	\$11.0	\$12.1	\$10.1	\$18.1	\$12.5	\$14.1	\$15.8	\$21.4	\$16.1	\$11.0	\$14.1	\$11.5	\$14.1	22.6%	28.2%

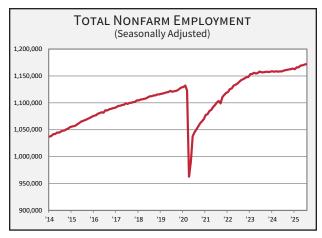
CINCINNATI METROPOLITAN STATISTICAL AREA

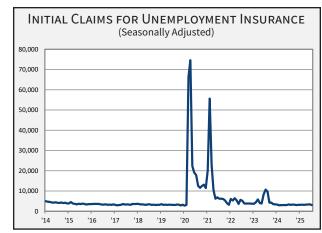
Brown, Butler, Clermont, Hamilton, and Warren Counties This MSA also includes counties in Indiana and Kentucky (see page 12)

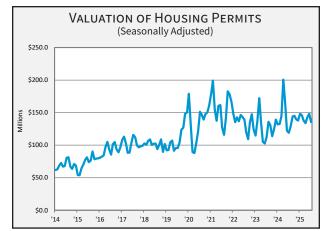
The leading indicator for the Cincinnati metropolitan area for July 2025 forecasts employment growth at an annual rate of 0.80% for the next six months. Seasonally adjusted nonfarm payroll employment was 1,172,000 in July, up 0.1% from June.

The number of initial claims for unemployment insurance in July was 3,038 claims, 12.3% less than last month and 11.1% less than last year. Average weekly manufacturing hours decreased to 40.8 in July. The valuation of permits for new housing construction in July was \$135.4 million, an 8.7% decrease from June but a 13.7% increase from July 2024.









CINCINIATI	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Percen	t Change
CINCINNATI	2024	2024	2024	2024	2024	2024	2025	2025	2025	2025	2025	2025	2025	Month	Year
Nonagricultural Wage and Salary Employment (Seasonally Adjusted in Thousands)	1,159.9	1,160.7	1,161.5	1,162.0	1,162.9	1,163.7	1,162.4	1,166.0	1,165.9	1,169.1	1,169.7	1,170.7	1,172.0	0.1%	1.0%
Initial Claims for Unemployment Insurance (Seasonally Adjusted)	3,417	3,162	3,289	3,241	3,045	3,182	3,212	3,260	3,157	3,306	3,343	3,464	3,038	-12.3%	-11.1%
Average Weekly Hours for Manufacturing (Seasonally Adjusted)	34.1	35.2	36.5	36.0	37.2	38.6	36.4	38.5	40.2	40.6	40.8	41.3	40.8	-1.2%	19.6%
Valuation of Housing Permits (Seasonally Adjusted in Millions)	\$119.1	\$128.6	\$143.8	\$145.2	\$139.6	\$137.8	\$148.2	\$145.9	\$137.5	\$133.8	\$142.8	\$148.3	\$135.4	-8.7%	13.7%

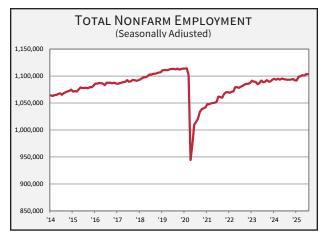
CLEVELAND METROPOLITAN STATISTICAL AREA

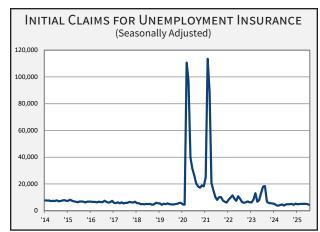
Ashtabula, Cuyahoga, Geauga, Lake, Lorain, and Medina Counties

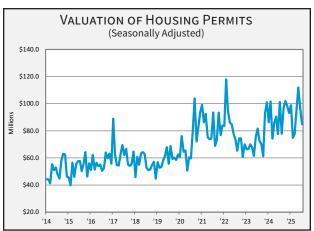
The leading indicator for the Cleveland metropolitan area for July 2025 forecasts employment growth at an annual rate of 3.61% for the next six months. Seasonally adjusted nonfarm payroll employment was 1,103,600 in July, up 0.04% from June.

The number of initial claims for unemployment insurance in July was 4,435, down 13.0% from the number of claims filed last month and down 6.8% from last year. Average weekly manufacturing hours increased to 42.3 in July. The valuation of permits for new housing construction in July was \$84.8 million, a 12.5% decrease from June and a 16.3% decrease from July 2024.









CLEVELAND	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Percent	: Change
CLEVELAND	2024	2024	2024	2024	2024	2024	2025	2025	2025	2025	2025	2025	2025	Month	Year
Nonagricultural Wage and Salary Employment (Seasonally Adjusted in Thousands)	1,093.8	1,093.1	1,093.3	1,093.5	1,094.4	1,092.2	1,092.0	1,098.8	1,099.5	1,101.6	1,100.8	1,103.2	1,103.6	0.04%	0.9%
Initial Claims for Unemployment Insurance (Seasonally Adjusted)	4,758	4,834	4,868	5,081	4,504	5,342	4,898	5,031	5,121	5,194	5,192	5,095	4,435	-13.0%	-6.8%
Average Weekly Hours for Manufacturing (Seasonally Adjusted)	40.4	40.6	40.2	40.4	41.4	41.4	41.1	42.7	42.8	43.4	42.5	40.8	42.3	3.7%	4.7%
Valuation of Housing Permits (Seasonally Adjusted in Millions)	\$101.3	\$77.9	\$96.9	\$102.0	\$98.4	\$93.1	\$98.9	\$74.8	\$77.6	\$95.5	\$112.0	\$96.9	\$84.8	-12.5%	-16.3%

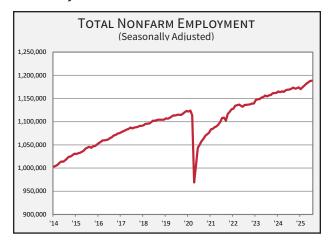
COLUMBUS METROPOLITAN STATISTICAL AREA

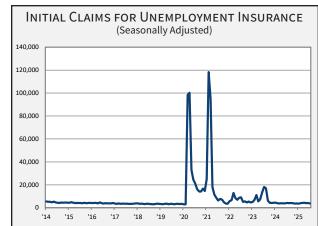
Delaware, Fairfield, Franklin, Hocking, Licking, Madison, Morrow, Perry, Pickaway, and Union Counties

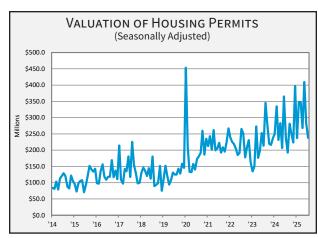
The leading indicator for the Columbus metropolitan area for July 2025 forecasts employment growth at an annual rate of 1.21% for the next six months. Seasonally adjusted nonfarm payroll employment was 1,188,200 in July, a 0.1% increase from June.

The number of initial claims for unemployment insurance in July was 3,731, down 10.1% from the number of claims filed last month and down 10.7% from last year. Average weekly manufacturing hours decreased to 36.4 in July. The valuation of permits for new housing construction in July was \$238.0 million, 15.6% less than June but 0.5% more than July 2024.









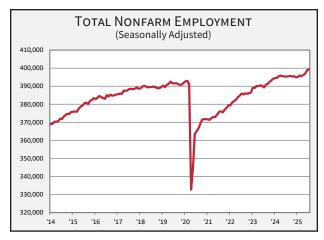
COLUMBUS	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Percen	t Change
Columbus	2024	2024	2024	2024	2024	2024	2025	2025	2025	2025	2025	2025	2025	Month	Year
Nonagricultural Wage and Salary Employment (Seasonally Adjusted in Thousands)	1,169.2	1,171.0	1,173.4	1,171.2	1,172.3	1,173.9	1,170.0	1,174.2	1,177.7	1,181.8	1,184.6	1,187.4	1,188.2	0.1%	1.6%
Initial Claims for Unemployment Insurance (Seasonally Adjusted)	4,175	3,988	4,115	4,001	3,661	3,793	3,529	3,947	4,110	4,432	4,041	4,148	3,731	-10.1%	-10.7%
Average Weekly Hours for Manufacturing (Seasonally Adjusted)	31.7	30.6	32.4	31.9	33.8	34.4	36.3	37.3	35.7	34.0	34.8	37.2	36.4	-2.2%	14.8%
Valuation of Housing Permits (Seasonally Adjusted in Millions)	\$236.8	\$192.7	\$281.2	\$250.5	\$223.5	\$396.5	\$236.8	\$348.2	\$346.5	\$268.2	\$409.2	\$281.9	\$238.0	-15.6%	0.5%

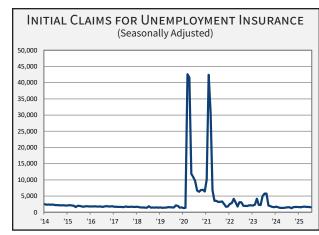
DAYTON-KETTERING-BEAVERCREEK METROPOLITAN STATISTICAL AREA Greene, Miami, and Montgomery Counties

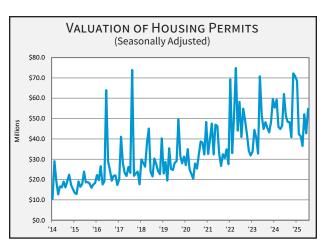
The leading indicator for the Dayton-Kettering-Beavercreek metropolitan area for July 2025 forecasts employment growth at an annual rate of 1.55% for the next six months. Seasonally adjusted nonfarm payroll employment was 399,300 in July, up 0.2% from June.

The number of initial claims for unemployment insurance in July was 1,550, down 4.4% from the number of claims filed last month but unchanged from last year. The valuation of permits for new housing construction in July was \$54.8 million, a 28.3% increase from June and a 6.4% increase from July 2024.









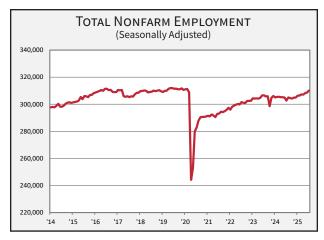
DAYTON-KETTERING-	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Percent	t Change
BEAVERCREEK	2024	2024	2024	2024	2024	2024	2025	2025	2025	2025	2025	2025	2025	Month	Year
Nonagricultural Wage and Salary Employment (Seasonally Adjusted in Thousands)	395.3	395.5	395.7	395.3	395.6	394.9	395.0	396.0	395.5	396.1	396.9	398.7	399.3	0.2%	1.0%
Initial Claims for Unemployment Insurance (Seasonally Adjusted)	1,549	1,537	1,265	1,616	1,623	1,635	1,611	1,564	1,703	1,738	1,645	1,622	1,550	-4.4%	0.0%
Average Weekly Hours for Manufacturing* (Seasonally Adjusted)	40.9	41.4	41.3	41.0	41.2	41.1	41.2	41.1	41.0	41.0	41.2	40.6	41.4	2.0%	1.2%
Valuation of Housing Permits (Seasonally Adjusted in Millions)	\$51.5	\$48.4	\$48.2	\$40.8	\$72.2	\$70.9	\$68.4	\$42.5	\$41.3	\$36.5	\$52.1	\$42.7	\$54.8	28.3%	6.4%

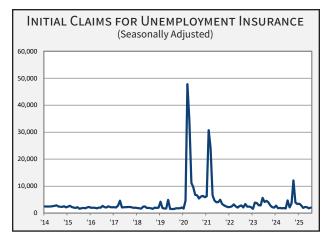
TOLEDO METROPOLITAN STATISTICAL AREA Fulton, Lucas, and Wood Counties

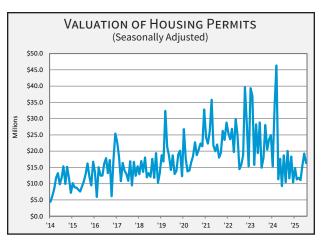
The leading indicator for the Toledo metropolitan area for July 2025 forecasts employment growth at an annual rate of 1.72% for the next six months. Seasonally adjusted nonfarm payroll employment was 310,100 in July, up 0.5% from June.

The number of initial claims for unemployment insurance in July was 2,039, up 15.5% from the number of claims filed last month but down 56.8% from last year. The valuation of permits for new housing construction in July was \$16.4 million, a 15.0% decrease from June and a 12.3% decrease from July 2024.









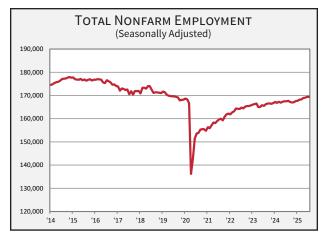
Tourno	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Percent	t Change
Toledo	2024	2024	2024	2024	2024	2024	2025	2025	2025	2025	2025	2025	2025	Month	Year
Nonagricultural Wage and Salary Employment (Seasonally Adjusted in Thousands)	302.6	305.0	304.5	304.1	305.0	304.9	306.3	306.4	307.3	307.1	308.2	308.6	310.1	0.5%	2.5%
Initial Claims for Unemployment Insurance (Seasonally Adjusted)	4,723	2,132	3,614	12,120	3,939	3,378	3,481	2,923	1,915	2,268	2,185	1,766	2,039	15.5%	-56.8%
Average Weekly Hours for Manufacturing* (Seasonally Adjusted)	40.9	41.4	41.3	41.0	41.2	41.1	41.2	41.1	41.0	41.0	41.2	40.6	41.4	2.0%	1.2%
Valuation of Housing Permits (Seasonally Adjusted in Millions)	\$18.7	\$10.5	\$20.1	\$11.6	\$18.3	\$10.4	\$14.8	\$11.3	\$11.8	\$11.1	\$15.4	\$19.3	\$16.4	-15.0%	-12.3%

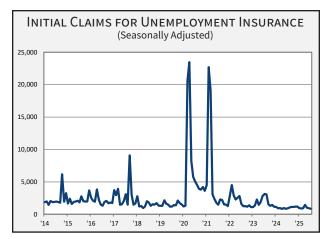
YOUNGSTOWN-WARREN METROPOLITAN STATISTICAL AREA Mahoning and Trumbull Counties

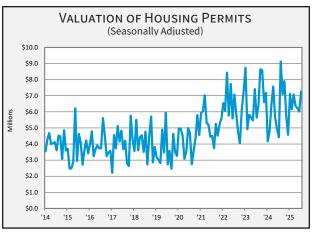
The leading indicator for the Youngstown-Warren metropolitan area for July 2025 forecasts employment growth at an annual rate of 1.59% for the next six months. Seasonally adjusted nonfarm payroll employment was 169,400 in July, up 0.1% from June.

The number of initial claims for unemployment insurance in July was 847, down 9.4% from the number of claims filed last month and down 6.8% from last year. The valuation of permits for new housing construction in July was \$7.3 million, a 21.7% increase from June and a 65.9% increase from July 2024.









YOUNGSTOWN-WARREN	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Percent	t Change
TOUNGSTOWN-WARREN	2024	2024	2024	2024	2024	2024	2025	2025	2025	2025	2025	2025	2025	Month	Year
Nonagricultural Wage and Salary Employment (Seasonally Adjusted in Thousands)	167.5	167.7	167.2	167.0	167.1	167.6	167.7	168.2	168.3	168.9	169.0	169.3	169.4	0.1%	1.1%
Initial Claims for Unemployment Insurance (Seasonally Adjusted)	909	1,041	1,150	1,133	1,173	1,197	949	904	918	1,443	1,012	935	847	-9.4%	-6.8%
Average Weekly Hours for Manufacturing* (Seasonally Adjusted)	40.9	41.4	41.3	41.0	41.2	41.1	41.2	41.1	41.0	41.0	41.2	40.6	41.4	2.0%	1.2%
Valuation of Housing Permits (Seasonally Adjusted in Millions)	\$4.4	\$9.1	\$7.1	\$7.9	\$5.7	\$4.6	\$7.1	\$6.2	\$7.1	\$6.4	\$6.2	\$6.0	\$7.3	21.7%	65.9%

OHIO METROPOLITAN STATISTICAL AREAS (MSAs)

Developed by the U.S. Office of Management and Budget, Metropolitan Statistical Areas are integrated geographic regions comprised of at least one city or urban area (with a population of at least 50,000) and adjacent communities. Metropolitan Statistical Areas make it possible for federal statistical agencies to utilize the same boundaries when publishing statistical data. These are definitions based on analysis of 2020 Census data.

- A. Akron: Portage and Summit counties
- B. Canton-Massillon: Carroll and Stark counties
- C. Cincinnati: Brown, Butler, Clermont, Hamilton, and Warren counties in Ohio; Dearborn, Franklin, and Ohio counties in Indiana; Boone, Bracken, Campbell, Gallatin, Grant, Kenton, and Pendleton counties in Kentucky
- D. Cleveland: Ashtabula, Cuyahoga, Geauga, Lake, Lorain, and Medina counties
- E. Columbus: Delaware, Fairfield, Franklin, Hocking, Licking, Madison, Morrow, Perry, Pickaway, and Union counties
- F. Dayton-Kettering-Beavercreek: Greene, Miami, and Montgomery counties
- G. Huntington-Ashland: Lawrence County in Ohio; Boyd, Carter, Greenup, and Lawrence counties in Kentucky; Cabell, Putnam, and Wayne counties in West Virginia
- H. Lima: Allen County
- I. Mansfield: Richland County
- J. Sandusky: Erie and Ottawa counties
- K. Springfield: Clark County
- L. Toledo: Fulton, Lucas, and Wood counties
- M. Weirton-Steubenville: Jefferson County in Ohio; Brooke and Hancock counties in West Virginia
- N. Wheeling: Belmont County in Ohio; Marshall and Ohio counties in West Virginia
- O. Youngstown-Warren: Mahoning and Trumbull counties



TECHNICAL NOTES

The leading economic indicators for Ohio and the eight largest Metropolitan Statistical Areas (MSAs) are designed to anticipate changes in area economies. The Gross National Product is the accepted measure of economic activity at the national level, but there are no monthly measures of the dollar value of goods and services at the state and metropolitan levels. Instead, the Ohio leading indicators forecast the growth rates of total nonfarm employment for each area.

The leading indicators are generated with vector auto regression models using six inputs. The inputs are statistically significant predictors of Ohio total nonfarm growth rates at the 90 percent confidence level.

The six inputs are:

- U.S. Leading Indicator (Source: The Conference Board, https://www.conference-board.org/data/bcicountry.cfm?cid=1)
- U.S. Industrial Production in the Manufacturing Sector (Source: Federal Reserve Bank of St. Louis, https://fred.stlouisfed.org/series/IPMAN)
- Unemployment Insurance Claims (Source: Ohio Department of Job and Family Services, https://ohiolmi.com/home/UIclaims)
- Housing Valuations (Source: U.S. Census Bureau, https://www.census.gov/construction/bps/)
- Manufacturing Hours (Source: Current Employment Statistics program, https://ohiolmi.com/portals/206/CES/LMR.pdf)
- Job Openings and Labor Turnover Survey (Source: U.S. Bureau of Labor Statistics, Job Openings and Labor Turnover Survey Home Page (bls.gov))

The models forecast growth rates for six time-horizons (one to six months); the published forecast is an annualized average of those forecasts. The models use rolling 120-month windows of data. Each month, a new month of data is added (the most current available) and the oldest month is dropped. This approach allows for possible structural changes in the economy over time. All data series are converted monthly growth rates using the first difference of the natural logarithms multiplied by 100. Seasonal adjustments are made within the models using the U.S. Census' X-13ARIMA-SEATS program; seasonally adjusted data from the leading indicator models will not match data from original sources.

The forecasting models for the Ohio leading indicators are 'real time' processes that do not build on previous forecasts. For this reason, the Ohio leading indicators should not be used as a time series. The models use data as they are available each month, including revisions to older data. For example, monthly data releases may be preliminary and later revised, other series are revised during annual 'benchmarking' and occasionally a series may be reindexed to a new time point. Some of these revisions could be substantial.

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Bureau of Labor Market Information Business Principles for Workforce Development

- Partner with the workforce and economic development community.
- Develop and deploy new information solution tools and systems for the workforce and economic development community.
- Provide products and services that are customer- and demand-driven.
- Be known as an important and reliable source for information solutions that support workforce development goals and outcomes.

This periodical is published under the direction of Bureau Chief, Nick Wallace. For further information, visit OhioLMI.com or call the Ohio Bureau of Labor Market Information at (614) 752-9494.

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Production of this report was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. See https://ohiolmi.com/home/grant_product_attribution for full details.

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