# Ohio Development 

The Office of Research
A State Affiliate of the U.S. Census Bureau

## Ohio Gross Domestic Product Report

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INTRODUCTION

## INTRODUCTION

This report provides an overview of Ohio's economy and its role in the U.S. economy. It looks at the production of goods and the provision of services by people using capital located here; i.e., the Gross Domestic Product (GDP) from Ohio.

There are four major sections after this introduction and executive summary. The first describes the composition of Ohio's economy, comparing it with other states and the national distribution of economic activity. The second notes the distribution of economic activity in Ohio by county and selected metropolitan areas. The third focuses on output by sector and the major industries therein, noting the key groups or specific industries within the major industries and their relative concentrations in Ohio as well as recent trends here and across the nation. The last is an appendix containing a section on terminology and data tables for those seeking a more detailed understanding of recent economic activity here. The graphs and most of the discussions herein are based on, and refer to, the appendix tables.

The report describes economic activity from 2000 into 2021 but concentrates on 2008-2020 for the more detailed analyses of sectors and the major industries therein. Data were collected and prepared by the U.S. Bureau of Economic Analysis (BEA). The detailed GDP estimates are based on state and local taxes, value-added reports and company financial data. The BEA also has released initial total and sector-summary estimates for three quarters in 2021. Figures for more recent years may have been revised from previous reports based on new and revised data from at least 19 federal agencies. See Platt and Mead (2017) for more details. The U.S. Bureau of the Census, other federal agencies, and several private sector organizations developed additional statistics cited in this report.

Total and sector figures for metropolitan areas and counties recently were released and have been incorporated into this expanded edition. Revised state-level figures also were released with the metropolitan and county statistics. However, County Business Patterns and Annual Survey of Manufactures data are from 2019.

## EXECUTIVE SUMMARY

- Ohio's Gross Domestic Product (GDP) is estimated at $\$ 677.6$ billion for all of 2020 - a figure 2.3 percent less than the revised 2019 estimate of $\$ 693.2$ billion - ending a $10-$ year expansion; total U.S. GDP also was 2.2 percent less.
- Ohio's GDP contracted an inflation-adjusted 10.7 percent from 2019's $4^{\text {th }}$ quarter to 2020 's $2^{\text {nd }}$ quarter, then expanded 12.0 percent to 2021 's $3^{\text {rd }}$ quarter, essentially returning to where it was - again, very close to the U.S. experience.
- Ohio remains the $7^{\text {th }}$ largest source for the U.S. GDP with 3.2 percent of the national total (2021)
- If Ohio was a separate country, it would be the $34^{\text {th }}$ largest national economy in the world.
- Manufacturing is the largest of the 20 sectors in Ohio's economy with 15.9 percent of its total output in 2021 's $3^{\text {rd }}$ quarter; durable goods manufacturing was 8.3 percent while non-durable goods manufacturing was 7.6 percent.
- Ohio's manufacturing sector produced goods at an annualized rate of $\$ 117.8$ billion in 2021 's $3^{\text {rd }}$ quarter, ranking it $4^{\text {th }}$ after California, Texas and Illinois.
- Ohio is a leading source for many manufactured goods: primary and fabricated metal products as well as non-metallic mineral products, plastic and rubber goods, machinery, electrical equipment and appliances, and transportation equipment - especially motor vehicles and associated parts (2020).
- Oil and natural gas extraction in Ohio fell in 2020 from its 2019 peak; nevertheless, the related pipeline transportation and manufacture of petroleum and coal products remain concentrated here.
- Major service industries concentrated here include banking and related services, insurance, trucking, warehousing and storage, hospitals, nursing and residential care, waste management and remediation, enterprise management (53 Fortune U.S.-1,000 companies have their headquarters here, with six of those on Fortune's Global-500 list), and amusements, gambling and recreation facilities (2020).
- Oil and gas extraction, financial and insurance services, ambulatory health care, enterprise management and real estate (which in turn is principally home ownership) are the most notable of 34 specific industries whose expansions have driven Ohio's growth from 2000 through 2020.
- Moody's (2021) predicts Ohio's recovering economy will grow 4.5 percent for all of 2021 after adjusting for inflation, essentially returning to its 2019 total. It further predicts 5.2 percent real growth in 2022, with growth thereafter tapering off to pre-COVID-19 rates between 2.8 and 1.8 percent. Resurgent consumer confidence, expanding health care and revitalized manufacturing sectors are expected to lead the recovery. It also predicts 107,000 jobs will be added for all of 2021 followed by 159,000 in 2022 - annual growth rates of 2.1 and 3.0 percent. However, a complete recovery to the pre-COVID-19 level of employment is not expected until 2023 or 2024.
- The Cleveland-Elyria and Columbus metropolitan areas (MAs), combined with the Ohio portion of the Cincinnati MA, produced 58.3 percent of Ohio's GDP in 2020; similarly, Franklin, Cuyahoga, Hamilton, Summit, Montgomery and Lucas Counties combined to produce 53.8 percent; the six are the central counties of six multi-county MAs.

DESCRIPTION OF OHIO'S ECONOMY AND THE IMPACT OF COVID-19

Ohio's Gross Domestic Product by Sector: 3rd Qtr. 2021 Annualized Rates
(in billions, except percentages)
Total: \$741.40--100.0\%


## OHIO'S ECONOMY IN 2021

The chart above illustrates the distribution of economic activity in Ohio across 20 sectors defined by the North American Industry Classification System (NAICS). Ohio's total economic output for the $3^{\text {rd }}$ quarter of 2021 is initially estimated at an annual rate of $\$ 741.40$ billion; $\$ 662.07$ billion - 89.30 percent - came from the private sector, with $\$ 79.33$ billion - 10.70 percent - from federal, state and local government services.

Manufacturing was the largest single sector, with such establishments producing final goods valued at $\$ 117.80$ billion, which is 15.89 percent of the state's total output. Manufacturers are divided into producers of durable and non-durable goods, with the former producing more than the latter: $\$ 61.35$ billion and 8.28 percent, compared with $\$ 56.45$ billion and 7.61 percent. Durable goods generally are made to last at least three years, while non-durables usually are expected to last less than three years. Other goods-producing sectors play smaller roles in Ohio's economy. They include construction at $\$ 27.13$ billion and 3.66 percent, agriculture-forestry-fishing-hunting at $\$ 6.84$ billion and 0.92 percent, and mining at $\$ 6.81$ billion and 0.92 percent. Combined output of these goods-producing sectors totaled $\$ 158.59$ billion, or 21.39 percent of the total GDP from Ohio.

Services provided by public and private sectors in Ohio totaled $\$ 582.81$ billion, or 78.61 percent of its economy. Total private sector services (i.e. excluding government services) were $\$ 503.48$ billion, or 67.91 percent of the total. The financial activities sectors - finance-insurance and real estate-rental-leasing - are the two largest private service sectors with nearly equal output (between $\$ 81.39$ and $\$ 80.55$ billion each) and nearly equal portions (between 10.98 and 10.86 percent). The size of the real estate sector primarily indicates the role homeownership plays in the economy, not just the activity of real estate agents, landlords, lessors, etc. They were followed by health care and social assistance at $\$ 63.15$ billion and 8.52 percent. Other private service sectors providing at least five percent of Ohio's economic output were wholesale and retail trade and professional-scientific-technical services. Other sectors played smaller roles. These include utilities, transportation and warehousing, information, enterprise management, administrative-support/wastemanagement, private sector educational services, arts-entertainment-recreation, accommodation and food services, and the catch-all category of other non-governmental services.

Nominal Changes in Ohio's GDP by Sector
4th Qtr. 2019 to 2nd Qtr. 2020 (the Fall on the Left) and to 3rd Qtr. 2021 (the Net Change on the Right)


Source: U.S. BEA

## THE IMPACT OF COVID-19: THE MAGNITUDE OF OUTPUT CHANGES, 2019-2021

The chart above illustrates the impact of the COVID-19 epidemic on Ohio's economy and how it has varied by sector. Ohio's total economic output fell $\$ 74.8$ billion from annualized rates of $\$ 702.1$ billion in 2019 's $4^{\text {th }}$ quarter to $\$ 627.3$ billion in 2020's $2^{\text {nd }}$ quarter, a 10.7 percent contraction. Four sectors accounted for just over one-half of the aggregate contraction: manufacturing, health care and social assistance, accommodation and food services, and wholesale trade; these are represented by the five dark red columns at the left (manufacturing is subdivided into durables and non-durables). The impact of the COVID-19 recession was widespread, though, with output from almost all the remaining sectors contracting; the exception is agriculture-forestry-fishing-hunting, the tiny dark blue column at near far right.

Ohio's total economic output rose $\$ 114.1$ billion from the $20202^{\text {nd }}$ quarter rate of $\$ 627.3$ billion to the $20213^{\text {rd }}$ quarter rate of $\$ 741.4$ billion, an 18.2 percent increase. Ohio's total output in 2021 's $3^{\text {rd }}$ quarter also was 5.6 percent more than the $20194^{\text {th }}$ quarter peak before the recession (no adjustment has been made for inflation).

Those figures suggest the recession is over and the recovery complete, but the chart above shows this is not uniformly true; the extent of recovery has varied by sector. The pale blue columns show $3^{\text {rd }}$ quarter 2021 output from 16 sectors appears greater - if only marginally - than output from $4^{\text {th }}$ quarter 2019. These contrast with the orange columns, which show $3^{\text {rd }}$ quarter 2021 output is still less than $4^{\text {th }}$ quarter 2019. Manufacturing is counted as one sector. However, the differing lengths between associated red and orange columns indicates varying degrees of progress in recovery in those lagging sectors.

Except for the agriculture-forestry-fishing-hunting sector, these changes are nearly proportional with corresponding changes for the national economy.

## Nominal Percentage Changes in Ohio's GDP by Sector

4th Qtr. 2019 to 2nd Qtr. 2020 (the Fall, the First Figure)
and to 3rd Qtr. 2021 (the Net Change, the Second Figure)


Source: U.S. BEA

## THE IMPACT OF COVID-19: THE RELATIVE OUTPUT CHANGES, 2019-2021

The preceding section described the magnitude of changes for Ohio's economy overall and by sector. This section describes the relative impact and differential recovery by sector because sectors vary substantially in size. The chart above illustrates the percentage changes in output from 2019's $4^{\text {th }}$ quarter to 2020's $2^{\text {nd }}$ quarter; they are bracketed by the horizontal axis range of -55.0 to 5.0 percent. They are paired with the net percentage change from 2019's $4^{\text {th }}$ quarter to 2021's $3^{\text {rd }}$ quarter; the latter are bracketed by the vertical axis range of -10.0 to 35.0 percent. (The volatile agriculture-forestry-fishing-hunting sector is not shown because it is an outlier; it is off-scale high with a 129.1 percent net change from 2019's $4^{\text {th }}$ quarter to 2021 's $3^{\text {rd }}$ quarter.) The purple circle in the chart illustrates the overall changes in Ohio's total output: a 10.7 percent contraction from 2019's $4^{\text {th }}$ quarter to 2020 's $2^{\text {nd }}$ quarter, but a net expansion of 5.6 percent over nine quarters. The 11 dots to the left of the circle indicate sectors experiencing relatively more severe contractions, and the eight dots to the right represent sectors contracting proportionally less than average.

The blue dots represent sectors with net growth of at least 1.0 percent over the nine quarters; the red dots indicate sectors lagging in recovery by at least 1.0 percent. The one black dot indicates the construction sector is within 1.0 percent of its $20194^{\text {th }}$ quarter output. Finally, it should be noted factors independent of COVID-19 could have influenced the nominal changes seen in the chart. For example, arts-entertainment-recreation and private sector educational services are known for seasonal variability, and agricultural output is affected by favorable and unfavorable weather.

See Table A1b

## Philadelphia FRB Conincident Economic Indicators Index Values for Ohio and the U.S.

(2007 Annual Average=100)


## THE IMPACT OF COVID-19: INDICATORS FROM THE PHILADELPHIA FEDERAL RESERVE BANK

The Philadelphia Federal Reserve Bank developed and publishes a monthly coincident economic output index for all states, permitting comparisons between them and with the nation. The index summarizes in one number the state-level changes in nonfarm payroll employment, average hours worked per week by manufacturing production workers, the unemployment rate, and wage and salary pay deflated by the U.S. Consumer Price Index. The figures in the chart above estimate the monthly changes in economic output from Ohio and the U.S. from January 2020 to the latest available month; they are as close to current as possible.

Index values in the chart above indicate output from Ohio (red dots) contracted 23.3 percent from 123.40 in January 2020 to 94.67 in April 2020. Index values subsequently rose, indicating economic expansion. The recovery first evident in May 2020 was initially rapid with the index rising more than 25 points from the April low to 120.03 in October 2020. The pace of the recovery slowed after that. The April 2021 value of 123.40 implies Ohio's overall economic output completely recovered and appears fairly steady since. The December 2021 value of 125.51 is 1.7 percent greater than the January 2020 value.

Corresponding numbers for the U.S. (blue squares) show an 11.3 percent decline from January to April 2020 followed by a 13.7 percent increase to December 2021. U.S. economic output in December 2021 appears to be 0.9 percent greater than what it was in January 2020, suggesting the Ohio's recovery is largely in line with that of the nation. The increasing index numbers for Ohio and the nation in October, November and December 2021 indicate the economic expansion seen in the BEA's figures continues into 2021's $4^{\text {th }}$ quarter.

Percentage Changes in Employment in Ohio by Sector
(figures not adjusted for seasonal variations)


Source: U.S. BLS

## THE IMPACT OF COVID-19: JOBS

COVID-19 has impacted sector employment in ways similar to its impact on sector economic output. The chart above illustrates two changes over a 16-month period: 1) "the fall" of non-farm employment - overall and by sector - from the overall peak in February to total low point in April 2020, bracketed by the range on the horizontal axis, and 2) the "net change" from February 2020 through November 2021, bracketed by the vertical axis; both figures are percentage changes. To summarize:

- The purple circle illustrates the overall change in Ohio's total non-farm employment: a 14.7 percent decline from February 2020 to April 2020 paired with a net decline of 1.5 percent from February 2020 to November 2021;
- The solid-color dots illustrate relative employment changes by sector (manufacturing is divided into durable and non-durable good production);
- those to the right of the purple circle saw proportionally milder employment losses in the fall;
- those to the left saw more severe losses in the fall;
- those above the level of the purple circle had net gains or relatively milder net losses in net change;
- those below the level of the purple circle are lagging in recovery;
- The blue dots mark sectors with net employment gains; however, some of the net gains and losses - such as in retail and in the arts-entertainment-recreation sectors - probably incorporate seasonal changes in addition to recovery;
- The black dots mark sectors back to within plus-or-minus 1.0 percent of pre-pandemic employment levels;
- The red dots mark sectors with net losses still greater than 1.0 percent;
- A diagonal line has been added to distinguish sectors regaining jobs (i.e., having net gains or at least net losses less than their February-to-April losses) and sectors experiencing further losses; the former are above and to the left and the latter are below and to the right.

Appendix Table A1c records the loss and gain numbers that are the bases of the percentages seen above. It also records varied and even divergent changes of industries within sectors too numerous to be listed here (e.g., public education vs. the rest of government). Although COVID-19 and the response to it have had an impact, seasonal, market and other factors have affected changing employment numbers as well.

See Table A1c
Although the total number of nonfarm jobs in November 2021 is less than the February number, the November 2021 civilian non-institutional unemployment rate is less than in February $2020-3.5$ percent vs. 5.0 percent. This seeming contradiction with job numbers is explained by the corresponding drop in the labor force participation rate from 63.6 percent to 61.3 percent.

The Relative Concentration of U.S. Economic Activity in Ohio, 3rd Qtr. 2021


Source: U.S. BEA
Economic Sector

## COMPARING THE DISTRIBUTION OF ECONOMIC ACTIVITY IN OHIO WITH THAT OF THE U.S.

Preceding sections showed the distribution of economic activity in Ohio across 20 sectors of the economy. For example, manufacturing was the largest sector in Ohio at 15.89 percent of GDP in 2021's 3 rd quarter, while agriculture-forestry-fishing-hunting (AFFH) was one of the smallest at 0.92 percent. This section furthers our understanding of Ohio's economy by comparing the distribution of output across sectors in Ohio with the corresponding national distribution. The graph above shows the ratios of these percentages for each sector. Continuing with the two examples, output from manufacturing and AFFH comprised 11.08 and 1.13 percent, respectively, of U.S. GDP during the same time. When compared with those for Ohio, these yield ratios of 1.43 for manufacturing ( 15.89 percent divided by 11.08 percent) and .82 for AFFH ( 0.92 percent divided by 1.13 percent - all figures are rounded). There are two ways to express the meanings of these figures. One way is to say that Ohio's economy is relatively more dependent on manufacturing and less dependent on AFFH than the American economy. The other way is to note manufacturing in America is concentrated in Ohio, while AFFH is not. (A ratio of 1.00 indicates exactly proportional activity, neither concentrated nor sparse.)

The concentration of one sector or industry here means that another must be relatively sparse. In this sense, a broad description of Ohio's economy is illustrated by the chart above. It is driven a bit more by private sector activity than by government activity, as indicated by the concentration ratios of 1.02 and .88 , respectively (orange and blue columns). Although overall goods-production is concentrated in the state (1.22, red), this reflects the concentration of manufacturing activity here (1.43) - with both durable and non-durable goods production concentrated here (1.39 and 1.48). On the other hand, AFFH production, mining and construction activity are more or less sparse (ranging from . 74 to .89).

The preceding section showed that service-providing industries collectively account for most economic activity in Ohio (78.61 percent with government, 67.91 percent without); yet the graph above shows that, as a whole, the collective contribution of non-governmental services to the GDP from Ohio is very close to proportional with that of the nation (.97, yellow). However, this generalization masks considerable variability. The most notable departure is the concentration of enterprise management (1.64). The finance-insurance, transportation-warehousing, and health care-social assistance sectors are at least somewhat concentrated in Ohio. Other service sectors that are roughly proportional with the national distribution include utilities, wholesale and retail trade, administrative-support/waste-management, and other nongovernmental services grouped in NAICS 81. The mild concentration of arts-entertainment-recreation may be due to the quarterly high point of this seasonal sector. Ohio's economy is less reliant on the remaining private service sectors.

## See Table A1a

More-specific industry comparisons between Ohio and the U.S. follow on the next three pages.

Ohio and U.S. Gross Domestic Products by Industry, 2020 (current dollar figures in millions)

| 2012 <br> NAICS <br> Codes | Industry Titles | GDP |  | Ohio as a Percent of the U.S. | Ohio::U.S. Concentration Ratio | Ohio's Rank | Top Five States |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ohio | U.S. |  |  |  |  |
| 11-92 | Total | \$677,561 | \$20,893,746 | 3.24\% | 1.00 | 7 | CA, TX, NY, FL, IL |
| 11-81* | Private industries* | \$601,898 | \$18,223,132 | 3.30\% | 1.02 | 7 | CA, TX, NY, FL, IL |
| 11, 21, 23, 31-33 | Private goods producing industries | \$139,369 | \$3,524,445 | 3.95\% | 1.22 | 4 | CA, TX, IL, OH, PA |
| 11 | Agriculture, forestry, fishing, etc. | \$3,915 | \$174,527 | 2.24\% | 0.69 | 13 | CA, WA, TX, IA, IL |
| 111-2 | Crop \& animal production (farms) | \$3,359 | \$134,661 | 2.49\% | 0.77 | 13 | CA, IA, WA, IL, NE |
| 113-5 | Forestry, fishing \& related activities | \$556 | \$39,865 | 1.39\% | 0.43 | 17 | CA, WA, FL, TX, OR |
| 21 | Mining | \$4,066 | \$182,099 | 2.23\% | 0.69 | 14 | TX, OK, CO, PA, WV |
| 211 | Oil \& gas extraction | \$2,573 | \$97,653 | 2.63\% | 0.81 | 9 | TX, OK, CO, ND, NM |
| 212 | Mining, exc. oil \& gas | \$1,078 | \$56,742 | 1.90\% | 0.59 | 22 | WV, AZ, NV, TX, WY |
| 213 | Support activities for mining | \$416 | \$27,704 | 1.50\% | 0.46 | 11 | TX, LA, ND, CO, OK |
| 23 | Construction | \$26,084 | \$895,860 | 2.91\% | 0.90 | 8 | CA, TX, FL, NY, PA |
| 31-33 | Manufacturing | \$105,303 | \$2,271,960 | 4.63\% | 1.43 | 4 | CA, TX, IL, OH, NC |
| 32 p \& 33 | Durable goods | \$57,594 | \$1,268,834 | 4.54\% | 1.40 | 4 | CA, TX, MI, OH, IN |
| 321 | Wood products | \$1,363 | \$42,241 | 3.23\% | 0.99 | 13 | CA, GA, OR, TX, PA |
| 327 | Nonmetallic mineral products | \$4,248 | \$66,753 | 6.36\% | 1.96 | 3 | TX, CA, OH, FL, NY |
| 331 | Primary metals | \$4,761 | \$58,310 | 8.16\% | 2.52 | 3 | IN, PA, OH, AL, TX |
| 332 | Fabricated metal products | \$10,154 | \$145,810 | 6.96\% | 2.15 | 3 | CA, TX, OH, IL, PA |
| 333 | Machinery | \$8,433 | \$157,569 | 5.35\% | 1.65 | 5 | TX, CA, IL, WI, OH |
| 334 | Computer \& electronic products | \$2,730 | \$317,342 | 0.86\% | 0.27 | 19 | CA, TX, MA, OR, NC |
| 335 | Electrical eqpt. \& appliances | \$4,841 | \$63,600 | 7.61\% | 2.35 | 2 | CA, OH, IL, NC, PA |
| 336 | Transportation eqpt. | \$17,191 | \$285,105 | 6.03\% | 1.86 | 6 | MI, TX, WA, CA, IN |
| 3361-3 | Motor vehicles, bodies, trailers \& parts | \$10,867 | \$154,638 | 7.03\% | 2.17 | 4 | MI, IN, TX, OH, TN |
| 3364-9 | Other transportation eqpt. | \$6,325 | \$130,467 | 4.85\% | 1.49 | 5 | WA, CA, TX, CT, OH |
| 337 | Furniture \& related products | \$1,146 | \$31,530 | 3.64\% | 1.12 | 8 | CA, MI, NC, IN, TX |
| 339 | Miscellaneous mfg. | \$2,728 | \$100,574 | 2.71\% | 0.84 | 15 | CA, MN, IN, IL, FL |
| 31 \& 32p | Nondurable goods | \$47,709 | \$1,003,125 | 4.76\% | 1.47 | 6 | CA, TX, IL, NC, PA |
| 311-2 | Food, beverage \& tobacco products | \$12,322 | \$289,763 | 4.25\% | 1.31 | 6 | CA, NC, VA, TX, IL |
| 313-4 | Textile \& textile product mills | \$369 | \$15,297 | 2.41\% | 0.74 | 10 | GA, NC, SC, CA, NY |
| 315-6 | Apparel, leather \& allied products | \$225 | \$9,802 | 2.30\% | 0.71 | 11 | CA, NY, TX, IL, MA |
| 322 | Paper | \$2,353 | \$59,738 | 3.94\% | 1.21 | 10 | WI, PA, GA, CA, SC |
| 323 | Printing \& related support activities | \$1,809 | \$39,602 | 4.57\% | 1.41 | 8 | CA, IL, WI, MN, PA |
| 324 | Petroleum \& coal products | \$5,142 | \$113,676 | 4.52\% | 1.39 | 7 | TX, CA, LA, PA, IL |
| 325 | Chemical | \$19,541 | \$394,623 | 4.95\% | 1.53 | 8 | CA, TX, IL, IN, NJ |
| 326 | Plastics \& rubber products | \$5,949 | \$80,624 | 7.38\% | 2.28 | 2 | IL, OH, TX, CA, PA |

Ohio and U.S. Gross Domestic Products by Industry, 2020 (current dollar figures in millions)

| 2012 <br> NAICS <br> Codes | Industry Titles | GDP |  | Ohio as a Percent of the U.S. | Ohio::U.S. Concentration Ratio | Ohio's Rank | Top Five States |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ohio | U.S. |  |  |  |  |
| 22, 42-81 ${ }^{1}$ | Private service providing industries ${ }^{1}$ | \$462,529 | \$14,698,687 | 3.15\% | 0.97 | 8 | CA, NY, TX, FL, IL |
| 22 | Utilities | \$10,907 | \$341,717 | 3.19\% | 0.98 | 9 | CA, TX, NY, FL, IL |
| 42 | Wholesale trade | \$41,728 | \$1,243,274 | 3.36\% | 1.03 | 9 | CA, TX, FL, NY, IL |
| 44-45 | Retail trade | \$40,682 | \$1,202,203 | 3.38\% | 1.04 | 7 | CA, TX, FL, NY, WA |
| 48-49* | Transportation \& warehousing* | \$22,116 | \$572,021 | 3.87\% | 1.19 | 7 | CA, TX, IL, FL, PA |
| 481 | Air transportation | \$1,681 | \$57,907 | 2.90\% | 0.89 | 11 | TX, CA, IL, FL, GA |
| 482 | Rail transportation | \$1,261 | \$37,559 | 3.36\% | 1.04 | 9 | TX, NE, IL, CA, MO |
| 483 | Water transportation | \$106 | \$9,600 | 1.10\% | 0.34 | 19 | FL, LA, CA, TX, NY |
| 484 | Truck transportation | \$7,821 | \$164,719 | 4.75\% | 1.46 | 4 | CA, TX, IL, OH, PA |
| 485 | Transit \& ground passenger transportation | \$446 | \$37,384 | 1.19\% | 0.37 | 18 | CA, NY, MA, IL, NJ |
| 486 | Pipeline transportation | \$1,614 | \$41,194 | 3.92\% | 1.21 | 6 | TX, PA, OK, AK, CO |
| 487-8, 492 | Other transportation \& support activities | \$5,081 | \$143,803 | 3.53\% | 1.09 | 8 | CA, TX, FL, IL, TN |
| 493 | Warehousing \& storage | \$4,107 | \$79,857 | 5.14\% | 1.59 | 4 | CA, TX, PA, OH, NJ |
| 51 | Information | \$17,117 | \$1,167,921 | 1.47\% | 0.45 | 14 | CA, NY, WA, TX, GA |
| 511 | Publishing (inc. sofware, exc. Internet) | \$5,259 | \$319,988 | 1.64\% | 0.51 | 14 | CA, WA, NY, MA, TX |
| 512 | Motion pictures \& sound recordings | \$258 | \$70,140 | 0.37\% | 0.11 | 22 | CA, NY, GA, TN, CT |
| 515, 517 | Broadcasting \& telecommunications | \$8,199 | \$459,473 | 1.78\% | 0.55 | 16 | CA, NY, TX, PA, GA |
| 518, 519 | Data prcsng., hosting, other info. (inc. Internet) | \$3,401 | \$318,321 | 1.07\% | 0.33 | 16 | CA, NY, WA, TX, IL |
| 52 | Finance \& insurance | \$76,445 | \$1,787,746 | 4.28\% | 1.32 | 5 | NY, CA, TX, IL, OH |
| 521-2 | Federal Reserve banks, credit intermediation, etc. | \$41,290 | \$780,960 | 5.29\% | 1.63 | 4 | NY, CA, TX, OH, NC |
| 523 | Securities, commodity contracts, investments | \$4,963 | \$341,381 | 1.45\% | 0.45 | 12 | NY, CA, MA, TX, IL |
| 524 | Insurance carriers \& related activities | \$29,975 | \$640,299 | 4.68\% | 1.44 | 6 | NY, TX, CA, IL, FL |
| 525 | Funds, trusts \& other financial vehicles | \$216 | \$25,105 | 0.86\% | 0.26 | 19 | TX, NY, CA, MA, IL |
| 53 | Real estate, rental \& leasing | \$77,313 | \$2,804,359 | 2.76\% | 0.85 | 9 | CA, NY, TX, FL, IL |
| 531 | Real estate | \$71,962 | \$2,563,063 | 2.81\% | 0.87 | 9 | CA, NY, TX, FL, IL |
| 532-3 | Rental \& leasing srvcs. \& lessors of intangible assets | \$5,351 | \$241,296 | 2.22\% | 0.68 | 12 | CA, TX, GA, FL, NY |
| 54 | Professional, scientific \& technical srves. | \$35,484 | \$1,627,764 | 2.18\% | 0.67 | 16 | CA, NY, TX, FL, MA |
| 5411 | Legal srvcs. | \$6,090 | \$281,743 | 2.16\% | 0.67 | 12 | NY, CA, TX, FL, IL |
| 5415 | Computer systems design \& related srvcs. | \$7,997 | \$366,626 | 2.18\% | 0.67 | 15 | CA, TX, VA, NY, MA |
| 5412-4, 5416-9 | Other professional, scientific \& technical srvcs. | \$21,397 | \$979,395 | 2.18\% | 0.67 | 16 | CA, NY, TX, MA, FL |
| 55 | Management of companies \& enterprises | \$22,808 | \$410,456 | 5.56\% | 1.71 | 5 | CA, NY, TX, PA, OH |

Ohio and U.S. Gross Domestic Products by Industry, 2020 (current dollar figures in millions)

| 2012 <br> NAICS <br> Codes | Industry Titles | GDP |  | Ohio as a Percent of the U.S. | Ohio::U.S. Concentration Ratio | Ohio's Rank | Top Five States |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ohio | U.S. |  |  |  |  |
| 56 | Administrative \& waste srvcs. | \$20,043 | \$651,554 | 3.08\% | 0.95 | 10 | CA, TX, NY, FL, IL |
| 561 | Administrative \& support srvcs. | \$17,656 | \$591,716 | 2.98\% | 0.92 | 11 | CA, TX, NY, FL, IL |
| 562 | Waste management \& remediation srvcs. | \$2,387 | \$59,838 | 3.99\% | 1.23 | 6 | CA, TX, WA, FL, NY |
| 61 | Educational srvcs. | \$5,693 | \$251,318 | 2.27\% | 0.70 | 13 | NY, CA, PA, MA, TX |
| 62 | Health care \& social assistance | \$58,655 | \$1,547,286 | 3.79\% | 1.17 | 7 | CA, NY, TX, FL, PA |
| 621 | Ambulatory health care srvcs. | \$25,179 | \$738,500 | 3.41\% | 1.05 | 6 | CA, TX, FL, NY, PA |
| 622 | Hospitals | \$22,537 | \$513,018 | 4.39\% | 1.35 | 7 | CA, NY, TX, FL, PA |
| 623 | Nursing \& residential care facilities | \$6,855 | \$154,999 | 4.42\% | 1.36 | 6 | CA, NY, PA, FL, TX |
| 624 | Social assistance | \$4,085 | \$140,768 | 2.90\% | 0.89 | 9 | CA, NY, PA, TX, MA |
| 71 | Arts, entertainment \& recreation | \$5,688 | \$163,359 | 3.48\% | 1.07 | 7 | CA, NY, FL, TX, IL |
| 711-2 | Performing arts, museums \& related activities | \$2,486 | \$91,298 | 2.72\% | 0.84 | 8 | CA, NY, FL, TX, PA |
| 713 | Amusements, gambling \& recreation | \$3,202 | \$72,061 | 4.44\% | 1.37 | 6 | CA, FL, TX, IL, NY |
| 72 | Accommodation \& food srves. | \$14,424 | \$508,719 | 2.84\% | 0.87 | 9 | CA, TX, FL, NY, IL |
| 721 | Accommodation | \$1,550 | \$115,768 | 1.34\% | 0.41 | 22 | CA, FL, NV, NY, TX |
| 722 | Food srves. \& drinking places | \$12,874 | \$392,951 | 3.28\% | 1.01 | 6 | CA, TX, FL, NY, IL |
| 81 | Other srvcs., exc. government | \$13,429 | \$418,990 | 3.20\% | 0.99 | 7 | CA, TX, NY, FL, IL |
| 92, 491 | Government | \$75,664 | \$2,670,611 | 2.83\% | 0.87 | 11 | CA, TX, NY, FL, VA |
| 92fc, 92811, 491 | Federal government | \$17,606 | \$848,354 | 2.08\% | 0.64 | 13 | CA, MD, VA, TX, DC |
| 92fc, 491 | Civilian (inc. Postal Service) | \$12,817 | \$506,382 | 2.53\% | 0.78 | 12 | CA, MD, DC, VA, TX |
| 92811 | Military | \$4,789 | \$341,972 | 1.40\% | 0.43 | 13 | CA, VA, TX, FL, NC |
| 92s | State \& local | \$58,058 | \$1,822,254 | 3.19\% | 0.98 | 7 | CA, NY, TX, FL, IL |

[^0]Sources: U.S. Bureau of Economic Analysis (2021).
Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

The table beginning on page 18 highlights the major industries with comparatively large contributions to Ohio's overall $4^{\text {th }}$ rank and high concentration in manufacturing (NAICS code 31-33) during 2020. They include:

- chemicals (NAICS code 325 ) $-\$ 19.54$ billion, 4.95 percent of the U.S. industry total and the $8^{\text {th }}$-largest source of all such products in the nation,
- the core of the motor vehicle industry: cars, trucks, trailers, RVs, their parts and accessories (3361-3) - \$10.87 billion, 7.03 percent, $4^{\text {th }}$,
- fabricated metal products (332) - $\$ 10.15$ billion, 6.96 percent, $3^{\text {rd }}$,
- machinery (333) - $\$ 8.43$ billion, 5.35 percent, $5^{\text {th }}$,
- primary metal products (331) - $\$ 4.76$ billion, 8.16 percent, $3^{\text {rd }}$,
- plastic and rubber products (326) - $\$ 5.95$ billion, 7.38 percent, $2^{\text {nd }}$,
- petroleum and coal products (324) - $\$ 5.14$ billion, 4.52 percent, $7^{\text {th }}$,
- electrical equipment and appliances (335) - $\$ 4.84$ billion, 7.61 percent, $2^{\text {nd }}$, and
- nonmetallic mineral products (327) - $\$ 4.25$ billion, 6.36 percent, 3 rd.

The concentration of so many major manufacturing industries in Ohio is the reason why Ohio ranked $4^{\text {th }}$ in total goods production (11, 23-33) with 3.95 percent of U.S. output.

The table also lists service-providing industries making comparatively large contributions to Ohio's and the nation's GDP during 2020:

- banks (including Federal Reserve offices), savings-and-loans, credit unions, non-depository financing and related activities (521-2) - $\$ 41.29$ billion, 5.29 percent, $4^{\text {th }}$,
- insurance carriers, agencies and related activities (524) - $\$ 29.98$ billion, 4.68 percent, $6^{\text {th }}$,
- enterprise management (55) - $\$ 22.81$ billion, 5.56 percent, $5^{\text {th }}$,
- hospitals (622) - $\$ 22.54$ billion, 4.39 percent, $7^{\text {th }}$,
- nursing and residential care facilities (623) - a $\$ 6.86$ billion, 4.42 percent, $6{ }^{\text {th }}$,
- truck transportation (484) - $\$ 7.82$ billion, 4.75 percent, $4^{\text {th }}$,
- warehousing and storage (493) - $\$ 4.12$ billion, 5.14 percent, $4^{\text {th }}$,
- amusements, gambling and recreation (713) - $\$ 3.20$ billion, 4.44 percent, $6^{\text {th }}$, and
- waste management and remediation (562) - $\$ 2.39$ billion, 3.99 percent, $6^{\text {th }}$.


## OHIO'S RANKS AMONG THE STATES AND THE WORLD

## States and the Larger Economies in the World

(in billions of dollars)

|  | Country Estimates for 2021 |  | Total (annualized 3 ${ }^{\text {rd }}$ qtr. 2021) |  |  | Manufacturing (annualized 3 ${ }^{\text {rd }}$ atr. 2021) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rank | Area | GDP* | Area | GDP^ | Percent of U.S. | Area | GDP^ | Percent of U.S. |
|  | World | \$142,325.5 | United States~ | \$23,202.3 | 100.00\% | United States | \$2,570.8 | 100.00\% |
| 1 | China | \$26,656.8 | California | \$3,384.3 | 14.59\% | California | \$416.7 | 16.21\% |
| 2 | United States | \$22,675.3 | Texas | \$2,006.7 | 8.65\% | Texas | \$233.1 | 9.07\% |
| 3 | India | \$10,181.2 | New York | \$1,867.9 | 8.05\% | Illinois | \$120.1 | 4.67\% |
| 4 | Japan | \$5,585.8 | Florida | \$1,242.3 | 5.35\% | Ohio | \$117.8 | 4.58\% |
| 5 | Germany | \$4,743.7 | Illinois | \$945.7 | 4.08\% | North Carolina | \$112.4 | 4.37\% |
| 6 | Russia | \$4,328.1 | Pennsylvania | \$846.1 | 3.65\% | Indiana | \$111.6 | 4.34\% |
| 7 | Indonesia | \$3,507.2 | Ohio | \$741.4 | 3.20\% | Pennsylvania | \$106.8 | 4.15\% |
| 8 | Brazil | \$3,328.5 | Georgia | \$690.0 | 2.97\% | Michigan | \$102.8 | 4.00\% |
| 9 | France | \$3,231.9 | New Jersey | \$677.0 | 2.92\% | New York | \$78.4 | 3.05\% |
| 10 | United Kingdom | \$3,174.9 | Washington | \$674.1 | 2.91\% | Wisconsin | \$69.2 | 2.69\% |
| 11 | Turkey | \$2,749.6 | North Carolina | \$660.3 | 2.85\% | Georgia | \$64.3 | 2.50\% |
| 12 | Mexico | \$2,613.8 | Massachusetts | \$642.0 | 2.77\% | New Jersey | \$64.3 | 2.50\% |
| 13 | Italy | \$2,610.6 | Virginia | \$596.0 | 2.57\% | Florida | \$64.2 | 2.50\% |
| 14 | South Korea | \$2,436.9 | Michigan | \$574.1 | 2.47\% | Tennessee | \$64.0 | 2.49\% |
| 15 | Canada | \$1,978.8 | Maryland | \$439.0 | 1.89\% | Massachusetts | \$62.0 | 2.41\% |
| 16 | Spain | \$1,959.0 | Colorado | \$426.5 | 1.84\% | Washington | \$58.2 | 2.27\% |
| 17 | Saudi Arabia | \$1,705.5 | Indiana | \$423.7 | 1.83\% | Minnesota | \$56.4 | 2.19\% |
| 18 | Australia | \$1,415.6 | Tennessee | \$421.4 | 1.82\% | Virginia | \$48.9 | 1.90\% |
| 19 | Taiwan | \$1,403.7 | Minnesota | \$417.2 | 1.80\% | Missouri | \$43.5 | 1.69\% |
| 20 | Poland | \$1,363.8 | Arizona | \$415.6 | 1.79\% | Louisiana | \$42.8 | 1.66\% |
| 21 | Egypt | \$1,346.2 | Wisconsin | \$367.9 | 1.59\% | Kentucky | \$40.9 | 1.59\% |
| 22 | Thailand | \$1,329.3 | Missouri | \$363.0 | 1.56\% | South Carolina | \$40.7 | 1.58\% |
| 23 | Iran | \$1,148.6 | Connecticut | \$298.6 | 1.29\% | Alabama | \$40.1 | 1.56\% |
| 24 | Vietnam | \$1,148.1 | South Carolina | \$272.1 | 1.17\% | lowa | \$37.8 | 1.47\% |
| 25 | Nigeria | \$1,116.3 | Oregon | \$268.9 | 1.16\% | Oregon | \$36.5 | 1.42\% |
| 26 | Pakistan | \$1,110.1 | Louisiana | \$257.2 | 1.11\% | Arizona | \$34.9 | 1.36\% |
| 27 | Netherlands | \$1,055.5 | Alabama | \$249.0 | 1.07\% | Connecticut | \$32.2 | 1.25\% |
| 28 | Argentina | \$1,015.0 | Kentucky | \$236.3 | 1.02\% | Kansas | \$29.0 | 1.13\% |
| 29 | Philippines | \$1,000.6 | Iowa | \$223.7 | 0.96\% | Colorado | \$27.8 | 1.08\% |
| 30 | Malaysia | \$978.8 | Utah | \$222.2 | 0.96\% | Maryland | \$27.0 | 1.05\% |
| 31 | Bangladesh | \$966.5 | Oklahoma | \$208.8 | 0.90\% | Utah | \$25.7 | 1.00\% |

## States and the Larger Economies in the World

(in billions of dollars)

|  | Country Estimates for 2021 |  | Total (annualized $3^{\text {rd }}$ atr. 2021) |  |  | Manufacturing (annualized $3^{\text {rd }}$ atr. 2021) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rank | Area | GDP* | Area | GDP^ | Percent of U.S. | Area | GDP^ | Percent of U.S. |
| 32 | Colombia | \$780.3 | Nevada | \$195.8 | 0.84\% | Arkansas | \$21.4 | 0.83\% |
| 33 | South Africa | \$753.1 | Kansas | \$194.3 | 0.84\% | Oklahoma | \$18.9 | 0.74\% |
| 34 | Ohio | \$741.4 | District of Columbia | \$153.2 | 0.66\% | Mississippi | \$18.4 | 0.71\% |
| 35 | U.A.E. | \$683.2 | Nebraska | \$152.2 | 0.66\% | Nebraska | \$17.8 | 0.69\% |
| 36 | Switzerland | \$660.9 | Arkansas | \$145.9 | 0.63\% | Idaho | \$10.4 | 0.41\% |
| 37 | Romania | \$636.5 | Mississippi | \$126.3 | 0.54\% | Nevada | \$10.2 | 0.40\% |
| 38 | Belgium | \$623.7 | New Mexico | \$109.6 | 0.47\% | New Hampshire | \$9.8 | 0.38\% |
| 39 | Singapore | \$600.1 | New Hampshire | \$99.0 | 0.43\% | West Virginia | \$8.2 | 0.32\% |
| 40 | Sweden | \$589.8 | Idaho | \$94.8 | 0.41\% | Maine | \$7.6 | 0.29\% |
| 41 | Ukraine | \$576.1 | Hawaii | \$91.9 | 0.40\% | Delaware | \$5.5 | 0.21\% |
| 42 | Kazakhstan | \$526.7 | West Virginia | \$88.4 | 0.38\% | South Dakota | \$5.2 | 0.20\% |
| 43 | Austria | \$517.9 | Delaware | \$81.5 | 0.35\% | Rhode Island | \$5.1 | 0.20\% |
| 44 | Algeria | \$514.7 | Maine | \$76.7 | 0.33\% | New Mexico | \$4.6 | 0.18\% |
| 45 | Ireland | \$500.3 | Rhode Island | \$66.9 | 0.29\% | North Dakota | \$4.6 | 0.18\% |
| 46 | Chile | \$491.5 | North Dakota | \$64.6 | 0.28\% | Vermont | \$3.6 | 0.14\% |
| 47 | Hong Kong | \$472.4 | South Dakota | \$62.0 | 0.27\% | Montana | \$3.3 | 0.13\% |
| 48 | Czech Republic | \$460.9 | Montana | \$60.0 | 0.26\% | Wyoming | \$2.7 | 0.11\% |
| 49 | Peru | \$439.3 | Alaska | \$55.7 | 0.24\% | Hawaii | \$1.5 | 0.06\% |
| 50 | Iraq | \$413.3 | Wyoming | \$42.1 | 0.18\% | Alaska | (D) | (D) |
| 51 | Israel | \$399.5 | Vermont | \$36.3 | 0.16\% | District of Columbia | (D) | (D) |

Notes and abbreviations: * - Purchasing Power Parity basis from Wikipedia, except Ohio; overseas territories and special areas of countries are excluded; therefore China, Taiwan and Hong Kong are listed separately; U.A.E. - United Arab Emirates; GDP for the 27-nation European Union is $\$ 20,918.1$ billion; ~ - includes overseas activities such as diplomatic and military missions not allocated to any state; ^ - initial annualized estimates from the U.S. BEA and subject to revision; (D) - not disclosed in order to maintain confidentiality. Sources: U.S. BEA (2022), Wikipedia (2021).

If Ohio was a separate country, it would have the $34^{\text {th }}$ largest economy in the world. The U.S. BEA's annualized estimate of $\$ 741.1$ billion for 2021 places Ohio between S. Africa and the U.A.E. with estimated GDPs of $\$ 753.1$ and $\$ 683.2$ billion, respectively (Wikipedia, 2021). ${ }^{1}$

The table also shows that Ohio ranked $7^{\text {th }}$ with 3.20 percent of U.S. total GDP and was the $4^{\text {th }}$ ranked source for manufactured goods. The $\$ 117.8$ billion in manufacturing output was 4.58 percent of the corresponding U.S. total, exceeding the output of three more populous states: Florida, New York and Pennsylvania (U.S. BEA, 2022).

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THE GEOGRAPHY OF OHIO'S ECONOMY

## 2020 Total Gross Domestic Product

Ohio and the 10 Largest Counties


Source: U.S. BEA

## THE DISTRIBUTION OF GROSS DOMESTIC PRODUCT BY COUNTY, 2020

The BEA recently published GDP estimates for counties. The chart above illustrates the 10 largest contributions by county to Ohio's total GDP of $\$ 677.6$ billion. These are contributions from the counties where the work was done - as opposed to the counties' resident populations, incorporating the impact of people who cross county boundaries for work. In this sense, about $\$ 101.2$ billion, or 14.9 percent, of Ohio's GDP originated in Franklin, followed by Cuyahoga at $\$ 98.8$ billion - 14.6 percent, and Hamilton at $\$ 78.8$ billion - 11.6 percent. Individual figures for the next seven ranged between $\$ 30.7$ and $\$ 12.7$ billion (green columns), or 4.5 to 1.9 percent.

The chart also illustrates the cumulative contributions of each of the 10 to Ohio's total output (gold dots). Cuyahoga and Franklin combined for 29.5 percent, with the addition of Hamilton raising the cumulative total of the three to 41.2 percent. The five largest counties combine for 50.1 percent of Ohio's output, and the 10 accounted for 63.3 percent of the $\$ 677.6$ billion total.

Tables on the following two pages list the contributions of all 88 counties in both rank and alphabetic order.

| Rank Area Name |  | Percentages |  |  | Percentages |  |  |  |  | Rank Area Name |  | GDP (in millions) | Percentages |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | GDP (in millions) | Individual | Cumulative | Rank Area Name |  | GDP (in millions) | Individual | Cumulative |  |  | Individual | Cumulative |
|  | Ohio | \$677,561 |  |  | 29 | Geauga | \$4,483 | 0.66\% | 83.43\% | 59 | Pickaway |  | \$1,992 | 0.29\% | 95.29\% |
|  |  |  |  |  | 30 | Erie | \$4,134 | 0.61\% | 84.04\% | 60 | Lawrence | \$1,934 | 0.29\% | 95.58\% |
| 1 | Franklin | \$101,208 | 14.94\% | 14.94\% | 31 | Tuscarawas | \$3,926 | 0.58\% | 84.62\% | 61 | Ashland | \$1,873 | 0.28\% | 95.85\% |
| 2 | Cuyahoga | \$98,829 | 14.59\% | 29.52\% | 32 | Muskingum | \$3,798 | 0.56\% | 85.18\% | 62 | Williams | \$1,830 | 0.27\% | 96.12\% |
| 3 | Hamilton | \$78,807 | 11.63\% | 41.15\% | 33 | Washington | \$3,652 | 0.54\% | 85.72\% | 63 | Defiance | \$1,696 | 0.25\% | 96.38\% |
| 4 | Summit | \$30,612 | 4.52\% | 45.67\% | 34 | Jefferson | \$3,435 | 0.51\% | 86.22\% | 64 | Henry | \$1,616 | 0.24\% | 96.61\% |
| 5 | Montgomery | \$30,011 | 4.43\% | 50.10\% | 35 | Shelby | \$3,386 | 0.50\% | 86.72\% | 65 | Highland | \$1,449 | 0.21\% | 96.83\% |
| 6 | Lucas | \$24,726 | 3.65\% | 53.75\% | 36 | Ashtabula | \$3,194 | 0.47\% | 87.19\% | 66 | Crawford | \$1,420 | 0.21\% | 97.04\% |
| 7 | Butler | \$22,178 | 3.27\% | 57.02\% | 37 | Columbiana | \$3,100 | 0.46\% | 87.65\% | 67 | Putnam | \$1,358 | 0.20\% | 97.24\% |
| 8 | Stark | \$16,835 | 2.48\% | 59.51\% | 38 | Sandusky | \$3,032 | 0.45\% | 88.10\% | 68 | Van Wert | \$1,313 | 0.19\% | 97.43\% |
| 9 | Delaware | \$12,921 | 1.91\% | 61.42\% | 39 | Belmont | \$2,963 | 0.44\% | 88.54\% | 69 | Champaign | \$1,286 | 0.19\% | 97.62\% |
| 10 | Warren | \$12,724 | 1.88\% | 63.29\% | 40 | Ross | \$2,963 | 0.44\% | 88.97\% | 70 | Coshocton | \$1,286 | 0.19\% | 97.81\% |
| 11 | Lake | \$11,768 | 1.74\% | 65.03\% | 41 | Marion | \$2,819 | 0.42\% | 89.39\% | 71 | Preble | \$1,271 | 0.19\% | 98.00\% |
| 12 | Lorain | \$11,032 | 1.63\% | 66.66\% | 42 | Scioto | \$2,697 | 0.40\% | 89.79\% | 72 | Pike | \$1,204 | 0.18\% | 98.18\% |
| 13 | Greene | \$10,546 | 1.56\% | 68.21\% | 43 | Holmes | \$2,544 | 0.38\% | 90.16\% | 73 | Carroll | \$1,184 | 0.17\% | 98.35\% |
| 14 | Mahoning | \$9,508 | 1.40\% | 69.62\% | 44 | Huron | \$2,415 | 0.36\% | 90.52\% | 74 | Wyandot | \$1,084 | 0.16\% | 98.51\% |
| 15 | Clermont | \$9,246 | 1.36\% | 70.98\% | 45 | Fayette | \$2,342 | 0.35\% | 90.87\% | 75 | Monroe | \$1,067 | 0.16\% | 98.67\% |
| 16 | Allen | \$8,116 | 1.20\% | 72.18\% | 46 | Clinton | \$2,332 | 0.34\% | 91.21\% | 76 | Jackson | \$1,063 | 0.16\% | 98.82\% |
| 17 | Wood | \$7,716 | 1.14\% | 73.32\% | 47 | Auglaize | \$2,293 | 0.34\% | 91.55\% | 77 | Harrison | \$955 | 0.14\% | 98.97\% |
| 18 | Medina | \$7,513 | 1.11\% | 74.43\% | 48 | Mercer | \$2,260 | 0.33\% | 91.88\% | 78 | Hardin | \$952 | 0.14\% | 99.11\% |
| 19 | Licking | \$7,351 | 1.08\% | 75.51\% | 49 | Knox | \$2,181 | 0.32\% | 92.20\% | 79 | Brown | \$916 | 0.14\% | 99.24\% |
| 20 | Trumbull | \$7,088 | 1.05\% | 76.56\% | 50 | Gallia | \$2,179 | 0.32\% | 92.53\% | 80 | Adams | \$811 | 0.12\% | 99.36\% |
| 21 | Wayne | \$6,592 | 0.97\% | 77.53\% | 51 | Athens | \$2,168 | 0.32\% | 92.85\% | 81 | Perry | \$790 | 0.12\% | 99.48\% |
| 22 | Portage | \$6,448 | 0.95\% | 78.48\% | 52 | Darke | \$2,157 | 0.32\% | 93.16\% | 82 | Morrow | \$723 | 0.11\% | 99.58\% |
| 23 | Hancock | \$5,473 | 0.81\% | 79.29\% | 53 | Ottawa | \$2,137 | 0.32\% | 93.48\% | 83 | Hocking | \$667 | 0.10\% | 99.68\% |
| 24 | Fairfield | \$4,908 | 0.72\% | 80.02\% | 54 | Seneca | \$2,111 | 0.31\% | 93.79\% | 84 | Paulding | \$650 | 0.10\% | 99.78\% |
| 25 | Richland | \$4,721 | 0.70\% | 80.71\% | 55 | Fulton | \$2,096 | 0.31\% | 94.10\% | 85 | Noble | \$438 | 0.06\% | 99.84\% |
| 26 | Clark | \$4,666 | 0.69\% | 81.40\% | 56 | Madison | \$2,053 | 0.30\% | 94.40\% | 86 | Meigs | \$422 | 0.06\% | 99.91\% |
| 27 | Union | \$4,645 | 0.69\% | 82.09\% | 57 | Guernsey | \$2,022 | 0.30\% | 94.70\% | 87 | Morgan | \$345 | 0.05\% | 99.96\% |
| 28 | Miami | \$4,601 | 0.68\% | 82.77\% | 58 | Logan | \$2,013 | 0.30\% | 95.00\% | 88 | Vinton | \$293 | 0.04\% | 100.00\% |

Source: U.S. Bureau of Economic Analysis, Gross Domestic Product (GDP) by County [machine-readable data file] / prepared by the Bureau. Washington, D.C.: the Bureau [producer and distributor], 2021. Table CAGDP2.

Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 12/21).

| Area Name | GDP (in millions) | Percent of Ohio | Rank | Area Name | GDP (in millions) | Percent of Ohio | Rank | Area Name | GDP (in millions) | Percent of Ohio | Rank |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ohio | \$677,561 | 100.0\% |  | Greene | \$10,546 | 1.56\% | 13 | Morrow | \$723 | 0.11\% | 82 |
|  |  |  |  | Guernsey | \$2,022 | 0.30\% | 57 | Muskingum | \$3,798 | 0.56\% | 32 |
| Adams | \$811 | 0.12\% | 80 | Hamilton | \$78,807 | 11.63\% | 3 | Noble | \$438 | 0.06\% | 85 |
| Allen | \$8,116 | 1.20\% | 16 | Hancock | \$5,473 | 0.81\% | 23 | Ottawa | \$2,137 | 0.32\% | 53 |
| Ashland | \$1,873 | 0.28\% | 61 | Hardin | \$952 | 0.14\% | 78 | Paulding | \$650 | 0.10\% | 84 |
| Ashtabula | \$3,194 | 0.47\% | 36 | Harrison | \$955 | 0.14\% | 77 | Perry | \$790 | 0.12\% | 81 |
| Athens | \$2,168 | 0.32\% | 51 | Henry | \$1,616 | 0.24\% | 64 | Pickaway | \$1,992 | 0.29\% | 59 |
| Auglaize | \$2,293 | 0.34\% | 47 | Highland | \$1,449 | 0.21\% | 65 | Pike | \$1,204 | 0.18\% | 72 |
| Belmont | \$2,963 | 0.44\% | 39 | Hocking | \$667 | 0.10\% | 83 | Portage | \$6,448 | 0.95\% | 22 |
| Brown | \$916 | 0.14\% | 79 | Holmes | \$2,544 | 0.38\% | 43 | Preble | \$1,271 | 0.19\% | 71 |
| Butler | \$22,178 | 3.27\% | 7 | Huron | \$2,415 | 0.36\% | 44 | Putnam | \$1,358 | 0.20\% | 67 |
| Carroll | \$1,184 | 0.17\% | 73 | Jackson | \$1,063 | 0.16\% | 76 | Richland | \$4,721 | 0.70\% | 25 |
| Champaign | \$1,286 | 0.19\% | 69 | Jefferson | \$3,435 | 0.51\% | 34 | Ross | \$2,963 | 0.44\% | 40 |
| Clark | \$4,666 | 0.69\% | 26 | Knox | \$2,181 | 0.32\% | 49 | Sandusky | \$3,032 | 0.45\% | 38 |
| Clermont | \$9,246 | 1.36\% | 15 | Lake | \$11,768 | 1.74\% | 11 | Scioto | \$2,697 | 0.40\% | 42 |
| Clinton | \$2,332 | 0.34\% | 46 | Lawrence | \$1,934 | 0.29\% | 60 | Seneca | \$2,111 | 0.31\% | 54 |
| Columbiana | \$3,100 | 0.46\% | 37 | Licking | \$7,351 | 1.08\% | 19 | Shelby | \$3,386 | 0.50\% | 35 |
| Coshocton | \$1,286 | 0.19\% | 70 | Logan | \$2,013 | 0.30\% | 58 | Stark | \$16,835 | 2.48\% | 8 |
| Crawford | \$1,420 | 0.21\% | 66 | Lorain | \$11,032 | 1.63\% | 12 | Summit | \$30,612 | 4.52\% | 4 |
| Cuyahoga | \$98,829 | 14.59\% | 2 | Lucas | \$24,726 | 3.65\% | 6 | Trumbull | \$7,088 | 1.05\% | 20 |
| Darke | \$2,157 | 0.32\% | 52 | Madison | \$2,053 | 0.30\% | 56 | Tuscarawas | \$3,926 | 0.58\% | 31 |
| Defiance | \$1,696 | 0.25\% | 63 | Mahoning | \$9,508 | 1.40\% | 14 | Union | \$4,645 | 0.69\% | 27 |
| Delaware | \$12,921 | 1.91\% | 9 | Marion | \$2,819 | 0.42\% | 41 | Van Wert | \$1,313 | 0.19\% | 68 |
| Erie | \$4,134 | 0.61\% | 30 | Medina | \$7,513 | 1.11\% | 18 | Vinton | \$293 | 0.04\% | 88 |
| Fairfield | \$4,908 | 0.72\% | 24 | Meigs | \$422 | 0.06\% | 86 | Warren | \$12,724 | 1.88\% | 10 |
| Fayette | \$2,342 | 0.35\% | 45 | Mercer | \$2,260 | 0.33\% | 48 | Washington | \$3,652 | 0.54\% | 33 |
| Franklin | \$101,208 | 14.94\% | 1 | Miami | \$4,601 | 0.68\% | 28 | Wayne | \$6,592 | 0.97\% | 21 |
| Fulton | \$2,096 | 0.31\% | 55 | Monroe | \$1,067 | 0.16\% | 75 | Williams | \$1,830 | 0.27\% | 62 |
| Gallia | \$2,179 | 0.32\% | 50 | Montgomery | \$30,011 | 4.43\% | 5 | Wood | \$7,716 | 1.14\% | 17 |
| Geauga | \$4,483 | 0.66\% | 29 | Morgan | \$345 | 0.05\% | 87 | Wyandot | \$1,084 | 0.16\% | 74 |

Source: U.S. Bureau of Economic Analysis, Gross Domestic Product (GDP) by County [machine-readable data file] / prepared by the Bureau. Washington, D.C.: the Bureau [producer and distributor], 2021. Table CAGDP2.

Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 12/21).

## COUNTY CONTRIBUTIONS TO OHIO'S GROSS DOMESTIC PRODUCT BY SECTOR, 2020

The list below names the top 10 counties contributing to Ohio's 20 economic sectors. The counties are listed in rank order with the cumulative percentage contributions of the top five and top 10 in the column at right. An asterisk (*) indicates the sector is concentrated in the county at a ratio of $1.1:: 1$ or greater when compared to the U.S. distribution of goods and services provision. The sectors are in descending order of their concentration in the top five counties; the previously seen economy-wide summary is included for comparison. Sectors less than the economy-wide summary of 50.1 and 63.3 per-cent for the top five and 10 counties may be thought of as more widely diffused across the state. Appendix Table A2 shows sector and super-sector data for the U.S., Ohio and all 88 counties.

| Sector | Cumulative Percent of Ohio |
| :---: | :---: |
| Information (2.53 percent of Ohio's total GDP) |  |
| 1-5: Franklin, Cuyahoga, Hamilton, Montgomery*, Summit | 72.9 |
| 6-10: Lucas, Wood, Stark, Warren, Delaware | 80.2 |
| Finance and Insurance (11.28 percent of Ohio's total GDP) |  |
| 1-5: Cuyahoga*, Hamilton*, Franklin*, Montgomery*, Summit* | 70.2 |
| 6-10: Butler*, Delaware*, Lucas, Stark, Warren | 81.6 |
| Arts, Entertainment and Recreation (0.84 percent of Ohio's total GDP) |  |
| 1-5: Cuyahoga*, Hamilton*, Franklin, Erie*, Summit | 69.6 |
| 6-10: Lucas*, Warren*, Delaware*, Montgomery, Butler | 84.4 |
| Professional-Scientific-Technical Services (5.24 percent of Ohio's total GDP) |  |
| 1-5: Cuyahoga, Franklin, Hamilton, Summit, Montgomery | 68.3 |
| 6-10: Greene*, Lucas, Delaware*, Stark, Warren | 82.2 |
| Enterprise Management ( 3.37 percent of Ohio's total GDP) |  |
| 1-5: Hamilton*, Cuyahoga*, Franklin*, Summit*, Delaware* | 64.6 |
| 6-10: Warren*, Lucas*, Hancock*, Medina*, Montgomery | 79.2 |
| Mining, Quarrying and Oil-and-Gas Extraction (0.60 percent of Ohio's total GDP) |  |
| 1-5: Belmont*, Monroe*, Jefferson*, Harrison*, Guernsey* | 63.6 |
| 6-10: Tuscarawas*, Muskingum*, Carroll*, Cuyahoga*, Noble* | 77.6 |
| Educational Services ( 0.84 percent of Ohio's total GDP) |  |
| 1-5: Cuyahoga*, Franklin, Hamilton, Montgomery*, Lorain* | 61.9 |
| 6-10: Summit, Lucas, Stark, Greene, Licking* | 74.9 |
| Health Care-Social Assistance (8.66 percent of Ohio's total GDP) |  |
| 1-5: Cuyahoga*, Franklin*, Hamilton*, Montgomery*, Summit* | 57.2 |
| 6-10: Lucas*, Stark*, Butler, Mahoning*, Lorain | 71.1 |

Wholesale Trade ( 6.16 percent of Ohio's total GDP)
1-5: Cuyahoga*, Franklin, Hamilton, Butler*, Summit** 56.5
6-10: Montgomery, Lucas, Stark, Warren*, Medina* 70.2
Administrative-Support/Waste-Management-Remediation (3.96 percent of Ohio's total GDP)
1-5: Franklin, Cuyahoga*, Hamilton, Summit, Montgomery55.3
6-10: Lucas, Butler, Stark, Pike*, Lorain* ..... 68.8
Governments and Their Enterprises (11.17 percent of Ohio's total GDP)
1-5: Franklin*, Cuyahoga, Hamilton, Greene*, Montgomery ..... 52.3
6-10: Lucas, Summit, Butler, Stark, Lorain ..... 66.2
Summary GDP in Ohio (100.0 percent)
1-5: Franklin, Cuyahoga, Hamilton, Summit, Montgomery ..... 50.1
6-10: Lucas, Butler, Stark, Delaware, Warren ..... 63.3
Transportation-Warehousing (3.26 percent of Ohio's total GDP)
1-5: Franklin*, Cuyahoga, Clermont*, Hamilton, Montgomery ..... 47.5
6-10: Summit, Butler*, Hancock*, Lucas, Licking* ..... 63.4
Accommodation-Food Services (2.13 percent of Ohio's total GDP)
1-5: Franklin, Cuyahoga, Hamilton, Montgomery, Summit ..... 47.1
6-10: Lucas, Butler, Stark*, Delaware* Lake ..... 62.5
Real Estate-Rental-Leasing (11.41 percent of Ohio's total GDP)
1-5: Franklin, Cuyahoga, Hamilton, Lucas, Summit ..... 46.2
6-10: Montgomery, Butler, Stark, Lorain*, Delaware ..... 60.9
Other Private Sector Services (1.98 percent of Ohio's total GDP)
1-5: Franklin, Cuyahoga, Hamilton, Summit, Montgomery ..... 45.5
6-10: Lucas, Stark*, Butler, Warren*, Lake* ..... 59.7
Construction ( 3.85 percent of Ohio's total GDP)
1-5: Franklin, Hamilton, Cuyahoga, Summit*, Butler* ..... 42.6
6-10: Montgomery, Lucas, Stark, Warren, Medina* ..... 56.8
Retail Trade ( 6.00 percent of Ohio's total GDP)
1-5: Franklin, Cuyahoga, Hamilton, Summit*, Montgomery ..... 41.6
6-10: Lucas*, Butler*, Stark*, Delaware*, Warren* ..... 57.0
Utilities (1.61 percent of Ohio's total GDP)
1-5: Jefferson*, Lake*, Washington*, Hamilton, Franklin ..... 35.9
6-10: Lawrence*, Ottawa*, Montgomery, Lucas, Trumbull* ..... 58.7

Cumulative

Manufacturing, Total (15.54 percent of Ohio's total GDP) 1-5: Hamilton*, Cuyahoga, Franklin, Lucas*, Butler*35.8
6-10: Allen*, Summit*, Stark*, Montgomery, Lake* ..... 52.6
Manufacturing, Nondurable Goods (7.04 percent of Ohio's total GDP)
1-5: Hamilton*, Franklin, Allen*, Cuyahoga, Lucas* ..... 40.3
6-10: Butler*, Summit, Wayne*, Stark*, Lake* ..... 58.0
Manufacturing, Durable Goods ( 8.50 percent of Ohio's total GDP)
1-5: Cuyahoga*, Hamilton, Butler*, Lucas*, Franklin ..... 34.9
6-10: Montgomery*, Stark*, Summit, Lake*, Lorain* ..... 51.4
Agriculture-Forestry-Fishing-Hunting ( 0.58 percent of Ohio's total GDP)1-5: Mercer*, Darke ${ }^{*}$, Wayne ${ }^{*}$, Madison*, Van Wert*19.9
6-10: Holmes*, Union*, Fayette*, Auglaize*, Pickaway* ..... 31.9

These lists show the effects of several factors. Sometimes it is the sheer size of the counties' populations that leads to their high sector ranks; other times it is the relatively large presence of one sector regardless of a county's population size. Sometimes the concentration reflects the tendency of more specialized sectors to locate in larger counties, which may in turn reflect either or both sufficiently large markets for sales and for workers with desired skills; other times it may be strategic location, the presence of particular resources or the lack of large urban populations. ${ }^{2}$

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| Area (number of Ohio counties) | Total | Amount |  | Private Sector |  |  |  |  |  | Governments |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Percent | Goods-Producing |  |  |  | Service-Providing |  | Amount | Percent |
|  |  |  |  | Amount | Percent | Manufacturing |  | Amount | Percent |  |  |
|  |  |  |  |  |  | Amount | Percent |  |  |  |  |
| Aggregate Amounts |  |  |  |  |  |  |  |  |  |  |  |
| U.S. | \$20,893,746 | \$18,223,132 | 87.2\% | \$3,524,445 | 16.9\% | \$2,271,960 | 10.9\% | \$14,698,687 | 70.3\% | \$2,670,611 | 12.8\% |
| Ohio | \$677,561 | \$601,897 | 88.8\% | \$139,369 | 20.6\% | \$105,303 | 15.5\% | \$462,529 | 68.3\% | \$75,664 | 11.2\% |
| Akron (2) | \$37,060 | \$33,176 | 89.5\% | (D) | (D) | \$5,090 | 13.7\% | (D) | (D) | \$3,883 | 10.5\% |
| Canton-Massillon (2) | \$18,019 | \$16,332 | 90.6\% | \$4,737 | 26.3\% | \$3,744 | 20.8\% | \$11,594 | 64.3\% | \$1,688 | 9.4\% |
| Cincinnati (three states) | \$152,619 | \$140,615 | 92.1\% | (D) | (D) | \$23,278 | 15.3\% | (D) | (D) | \$12,004 | 7.9\% |
| Cincinnati (Ohio part, 5)* | \$123,871 | \$114,387 | 92.3\% | (D) | (D) | \$18,919 | 15.3\% | (D) | (D) | \$9,484 | 7.7\% |
| Cleveland-Elyria (5) | \$133,626 | \$119,982 | 89.8\% | (D) | (D) | \$17,950 | 13.4\% | (D) | (D) | \$13,644 | 10.2\% |
| Columbus (10) | \$137,260 | \$118,095 | 86.0\% | \$17,757 | 12.9\% | \$11,677 | 8.5\% | \$100,338 | 73.1\% | \$19,165 | 14.0\% |
| Dayton-Kettering (3) | \$45,157 | \$36,763 | 81.4\% | (D) | (D) | \$5,089 | 11.3\% | (D) | (D) | \$8,394 | 18.6\% |
| Toledo (4) | \$36,675 | \$32,510 | 88.6\% | \$9,649 | 26.3\% | \$7,933 | 21.6\% | \$22,862 | 62.3\% | \$4,165 | 11.4\% |
| Youngstown-Warren... (two states) | \$20,968 | \$18,507 | 88.3\% | \$4,065 | 19.4\% | \$2,906 | 13.9\% | \$14,443 | 68.9\% | \$2,460 | 11.7\% |
| Youngstown-Warren... (Ohio part, 2)^ | \$16,596 | \$14,598 | 88.0\% | \$2,832 | 17.1\% | \$1,915 | 11.5\% | \$11,767 | 70.9\% | \$1,998 | 12.0\% |
| Percentage of Ohio |  |  |  |  |  |  |  |  |  |  |  |
| Sum of the Eight | 80.9\% | 80.7\% |  |  |  | 68.7\% |  |  |  | 82.5\% |  |
| Akron (2) | 5.5\% | 5.5\% |  |  |  | 4.8\% |  |  |  | 5.1\% |  |
| Canton-Massillon (2) | 2.7\% | 2.7\% |  |  |  | 3.6\% |  |  |  | 2.2\% |  |
| Cincinnati (Ohio part, 5)* | 18.3\% | 19.0\% |  |  |  | 18.0\% |  |  |  | 12.5\% |  |
| Cleveland-Elyria (5) | 19.7\% | 19.9\% |  |  |  | 17.0\% |  |  |  | 18.0\% |  |
| Columbus (10) | 20.3\% | 19.6\% |  |  |  | 11.1\% |  |  |  | 25.3\% |  |
| Dayton-Kettering (3) | 6.7\% | 6.1\% |  |  |  | 4.8\% |  |  |  | 11.1\% |  |
| Toledo (4) | 5.4\% | 5.4\% |  |  |  | 7.5\% |  |  |  | 5.5\% |  |
| Youngstown-Warren... (Ohio part, 2)^ | 2.4\% | 2.4\% |  |  |  | 1.8\% |  |  |  | 2.6\% |  |

Notes: * - Brown, Butler, Clermont, Hamilton and Warren Counties summed; ^ - Mahoning and Trumbull Counties summed; (D) - Suppressed to maintain confidentiality for some local enterprises - usually the agricultural sector.

Source: U.S. Bureau of Economic Analysis, Gross Domestic Product (GDP) by County [machine-readable data file] / prepared by the Bureau. Washington, D.C.: the Bureau [producer and distributor], 2020. Table CAGDP2.

Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

## THE DISTRIBUTION OF GROSS DOMESTIC PRODUCTS IN METROPOLITAN AREAS, 2020

The BEA publishes GDP data for metropolitan areas (MAs). MAs are counties or clusters of adjacent counties with a core urbanized area of at least 50,000 people. Urbanized areas include large cities, their suburbs and densely populated unincorporated areas. Multi-county MAs have a high degree of social and economic integration with one another, and typically are named after the principal city or cities. The table above shows the GDPs for six multi-county MAs wholly in Ohio and two crossing state boundaries; Ohio portions also are shown for Cincinnati and Youngstown-Warren-Boardman. One-county MAs are part of the county tables. While Cincinnati is the largest MA shown above at $\$ 152.6$ billion, its Ohio portion, $\$ 123.9$ billion, ranks it third in the state after Columbus and Cleveland-Elyria with $\$ 137.3$ and $\$ 133.6$ billion, respectively. The three are by far the largest, combining to produce a value equal to 58.3 percent of the state's 2020 GDP as judged by the Ohio portions alone. Akron, Dayton-Kettering and Toledo clustered between $\$ 36$ billion and $\$ 46$ billion, while Canton-Massillon and the Ohio portion of Youngstown were in the $\$ 16-\$ 19$ billion range. Altogether, the eight produced 80.9 percent of Ohio's 2020 GDP.

The table above also displays some of the amounts and percentages of GDP derived from manufacturing and government services. (Encompassing private goods producing cluster figures frequently are not disclosed to maintain confidentiality - usually for local agricultural, etc. enterprises. This results in complementary suppression of the private service providing cluster.) Several characteristics are notable in this regard:

- Cincinnati, Cleveland and Columbus are the three largest sources for manufactured goods, combining for 46.1 percent of Ohio's total production;
- Despite their large absolute outputs, their portions of total GDP derived from manufacturing can be relatively low; in Cleveland's case, the portion is a little less than the state average; in Columbus' case, the portion is less than the state and U.S. averages;
- Akron, Dayton and Youngstown have manufacturing portions that are between the state and U.S. portions;
- Canton and Toledo - two of the smaller MAs - have manufacturing portions greater than Ohio's portion.

Federal, state and local governments combined contributions to the MAs' GDPs ranged from 7.7 percent in the Ohio portion of Cincinnati to 18.6 percent in Dayton. The relatively high percentage for Dayton incorporates the importance of Wright-Patterson Air Force Base in its economy. However, Columbus contributed 25.3 percent of Ohio's total government GDP - due in part to its large size, the location of the state capitol, a large federal agency, and the Ohio State University's main campus.

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LONGER TERM CHANGES IN OHIO'S ECONOMY

Ohio's Gross Domestic Product, 2000-2020


## GROSS DOMESTIC PRODUCT FROM OHIO: 2000-2020

The chart above shows that the total value of goods and services produced in Ohio rose from $\$ 392.3$ to $\$ 497.8$ billion in the years 2000 to 2007 but fell to $\$ 482.3$ billion in 2009 before rising to $\$ 693.2$ billion in 2019. Ohio's total GDP dropped to $\$ 677.6$ billion in 2020. Figures for goods production (red and white stripes) show more ups and downs: down from $\$ 108.4$ in 2000 to $\$ 101.7$ in 2001, up to $\$ 117.0$ in 2007, down to $\$ 97.5$ in 2009, up to $\$ 145.1$ in 2019, and down to $\$ 139.4$ in 2020 (again, in billions). This contrasts with the relatively steady rise in the nominal value of private sector services (yellow) from $\$ 239.9$ to $\$ 473.7$; 2009 and 2020 were the exceptions. The value of government services (blue) appeared to rise without interruption from $\$ 44.0$ to $\$ 75.7$. It is important to note that the chart above makes no adjustment for inflation. Consequently, it cannot be determined from the current-dollar figures how much of the year-to-year changes seen above are due to real economic growth, and how much are due to simple price increases. This issue is addressed beginning in the next section.

The graph also illustrates the reorientation of economic activity in Ohio's private sector away from goods production and towards services. The net change in the portion of output was a decrease in goods production from 27.6 to 20.6 percent of output, while private sector services rose from 61.2 to 68.3 percent. Government services fluctuated between 10.7 and 12.4 percent, depending on how the private sector - particularly goods production - faired that year.

What happened in Ohio was part of the larger but less-pronounced shift for the nation as a whole. The private goodsproducing sectors' share of total U.S. GDP fell from 21.7 to 16.9 percent, while the complementary share of service providers rose from 65.4 to 70.4 percent. Government services fluctuated between 12.4 and 14.2 percent, again depending more on how private sector goods production faired (U.S. BEA, 2021). ${ }^{3}$

## Changes in Ohio's Economic Output, 2000-2020

## Adjusted for Inflation and Standardized on 2012



## REMOVING THE EFFECTS OF INFLATION: AN OVERVIEW OF REAL CHANGES, 2000-2020

Removing the effects of inflation permits comparisons across the years of the volumes of goods produced and services provided, revealing in the chart above the expansion and contraction in Ohio's economic output over the course of two decades. Figures are standardized on 2012. Total GDP figures (gray dots) show a recession in 2001, the resumption of growth in 2002 continuing through 2005, almost unchanging output in 2006 and 2007, the "Great Recession" in 2008 and 2009, recovery and expansion seen in 2010 through 2019, and overall recessionary year of 2020 . The 6.5 percent plunge from $\$ 546.7$ to $\$ 511.1$ billion (2007-2009) wiped out 81.5 percent of the net growth from 2001 to 2007 . It was not until 2013 that total output in Ohio surpassed the 2007 pre-recession peak. Similarly, annual output in 2020 was 3.5 percent less than in 2019 despite the rebound in 2020's second half mentioned earlier. Ohio's economic expansions and contractions essentially reflect the expansion and contraction in the private sector (orange squares) with a $\$ 110.4$ billion range between $\$ 438.4$ and $\$ 548.8$ billion. This contrasts with government services (blue dots), which decreased $\$ 4.1$ billion from a peak of $\$ 65.9$ billion in 2000 to $\$ 61.8$ billion in 2020 - relatively slight in comparison.

The chart above further specifies where changes occurred in the private sector. The collective output of goods producers (dark red diamonds) fell from $\$ 137.8$ billion (2000) to $\$ 127.2$ billion (2001), then grew to $\$ 138.7$ billion (2004) before sliding - gradually at first - to $\$ 107.7$ billion (2009). Aggregate goods output grew to $\$ 136.3$ billion in 2019 before contracting again in 2020. These changes largely reflect variations in manufacturing output (red triangles), and data derived from Appendix Table A3a show most of the manufacturing volume changes occurred in the durable goods subsector:

```
Total (billions)
    Manufacturing (billions)
        Durable goods (billions)
```

| ${f473c4f04-a518-471b-8787-f06ae9dac421} 01$ | ${fb9fa3a9f-cc6f-498f-a6bf-8203685b0542} 07-009$ | ${f5f793e6e-0765-4a0f-b496-88ee75b8ac2f} 19-20$ |  |  |
| ---: | ---: | ---: | ---: | ---: |
| $-\$ 7.0$ | $+\$ 43.8$ | $-\$ 35.7$ | $+\$ 101.1$ | $-\$ 21.3$ |
| $-\$ 10.6$ | $+\$ 7.7$ | $-\$ 27.1$ | $+\$ 28.6$ | $-\$ 2.3$ |
| $-\$ 8.2$ | $+\$ 13.1$ | $-\$ 25.7$ | $+\$ 21.5$ | $-\$ 3.6$ |
| $-\$ 6.9$ | $+\$ 9.3$ | $-\$ 23.5$ | $+\$ 17.8$ | $-\$ 3.8$ |

Much of the residual change among goods producers seen in the chart is due to the long-term net decline in construction, which was more than offset by the phenomenal growth in mining output from 2012 through 2020.

The chart above shows the long-term source of growth has been expansion of private sector services. While goods production fluctuated over the years, the net change was a 2.7 percent decrease from 2000 to 2020 . By contrast, private sector services (yellow dots) grew 28.2 percent despite a 2.6 percent decline from 2007 to 2009 and a 4.4 percent drop in 2020 from 2019. Some service sectors showed greater-than-average growth over two decades: information, financeinsurance, professional-scientific-technical services, enterprise management, administrative-support/waste-management, and health care and social assistance; few have lagged or contracted. Appendix Table A3a shows the details.



## REMOVING THE EFFECTS OF INFLATION: AN INTRODUCTION TO THE COVID-19 PERIOD

The chart at top shows that unlike prior recessions, COVID-19's impact was broadly - if not uniformly - felt by the private sector (orange squares, yellow dots, red diamonds and triangles). Private sector output fell 11.4 percent from $\$ 552.0$ billion in 2019's fourth quarter to $\$ 488.8$ billion in 2020's second quarter. Among goods producers, manufacturing's 15.5 percent contraction was partially offset by expansion among other goods providers. Overall, output from private sector service providers contracted 10.8 percent. Federal, state and local government services combined (blue dots) contracted 4.8 percent.

The top chart also shows total and private sector output essentially returned to normal in 2021's second quarter when compared with 2019's fourth quarter and continued expanding in the third quarter. Greater output in goods production more than offset the slightly lagging private sector services. Government service returned to the range seen in 2019. The lower chart illustrates the overall pattern of recession and recovery in Ohio paralleled that of the nation.

## Inflation-Adjusted Percentage Changes in Ohio's GDP by Sector

4th Qtr. 2019 to 2nd Qtr. 2020 and to 3rd Qtr. 2021, Standardized on 2012
(The Fall and the Net Change to Date)


Source: U.S. BEA

## REMOVING THE EFFECTS OF INFLATION: THE DETAILS OF THE COVID-19 PERIOD

The chart above illustrates how the COVID-19 pandemic impacted economic sectors and how they are doing in recovery. It is the same conceptual chart seen on page 10, except the percentage changes here are based on inflation-adjusted figures. In that regard, the principal points follow:

- Overall, Ohio's economic output (purple circle) in 2021's third quarter is back to what it was in 2019's fourth quarter, its pre-recession peak;
- Dots to the right of the purple circle indicate sectors contracting proportionally less than the overall average, with output from the mining and agriculture-forestry-fishing-hunting sectors actually increasing; dots to the left indicate sectors contracting proportionally more;
- Blue dots - all above the level of the purple circle - mark sectors whose 2021 third quarter output surpassed their 2019 fourth quarter output (output from the mining and agriculture-forestry-hunting-fishing sectors continued to grow);
- Black dots mark sectors within 1.0 percent of where their output was in 2019's fourth quarter; they have essentially recovered;
- Red dots - all below the level of the purple circle - mark sectors whose output lags the overall economy, although most have recovered to at least some degree; the exception is the utilities sector.

In addition to the figures above and their bases, Appendix Table A3b includes details on the magnitude of each sector's changes.

See Table A3b

Charts and text in the following sections start at 2008 due to space limitations for graph and data presentation and stop with 2020 because 2021 data for the major industries within each sector are unavailable at this writing. Quarterly data for industries within sectors are unavailable.

## Changes in Transportation Equipment Manufacturing Output in Ohio, 2008-2020

(Durable Goods Concentrated in Ohio)

$\wedge$ - A recession year for the nation; * - Initial; earlier years may be revised

## MOTOR VEHICLES AND OTHER CONCENTRATED DURABLE GOODS INDUSTRIES

A preceding section pointed to the ups and downs in durable goods manufacturing as accounting for much of the variation in Ohio's total goods production and a large role in expansion and contraction of the state's total output. The chart above shows one prominent part of that variability was the contraction and recovery in the motor vehicle industry: cars, trucks, RVs, trailers and their parts and accessories (collectively NAICS 3361-3363, red squares). The changes were the most extreme among all industries in Ohio: declining 67.4 percent from 2008 - already a recession year - to 2009 and taking several years to recover to 2008's level. Motor vehicle industry production since 2014 has fluctuated around $\$ 10$ billion. Amounts and percentages have been adjusted for inflation. Factors partially explaining why industry output remains less than the 2007 levels include:

- The permanent closures of GM's Moraine assembly and Mansfield parts plants as well as Ford's Cleveland engine plant \#2 and Walton Hills stamping plant in the Great Recession's aftermath;
- Ford closed its Cleveland engine plant \#1 for a year beginning in May 2007 (\#2 was still operating);
- Floods at east Asian parts plants constrained Honda’s assemblies in 2011-2012;
- Ford changed production at Avon Lake to emphasize commercial truck assemblies in 2014-2015;
- Stellantis (known as Fiat Chrysler Automobiles, or FCA, before merging with Peugeot) shut its Toledo North assembly plant in 2012-2013 and again in 2017, and its Supplier Park plant in 2018-2019, for major model changeovers; and
- GM permanently closed its Lordstown assembly plant in 2019 due a declining demand for small cars as buyers shifted to light trucks (Automotive News, 2016-2020).

Despite these changes, four major light vehicle assembly plants, two major medium-to-heavy-duty truck assembly plants and one major plant assembling light and medium-duty trucks currently operate along with dozens of major parts plants.

The changes seen in Ohio were similar to nationwide industry changes: output fell during the 2007-2009 recession, rose thereafter until 2019, and fell with the COVID recession of 2020. Although 7.0 percent of U.S. motor vehicle output still comes from Ohio, the industry was less concentrated here in 2020 than in 2008.

With few exceptions, GDP data provide no information about industry groups within major industries. However, valueadded data from the Census Bureau's Annual Survey of Manufactures (ASM) and employment figures from its County Business Patterns (CBP) files do, thereby providing more specific insights. ${ }^{4}$ Both sources indicate that vehicle assembly (3361) and parts production (3363) are particularly concentrated in Ohio, while manufacturing bodies and trailers (3362) is less concentrated.

See Tables A4, A15-A17, A19, A21

Changes in Durable Goods Manufacturing Output in Ohio, 2008-2020
(Industries Concentrated in Ohio Other Than Transportation Equipment)


Source: U.S. BEA
$\wedge$ - A recession year for the nation; * - Initial; earlier years may be revised

The extreme changes in the motor vehicle industry contrast with the less dramatic contraction and recovery in manufacturing other transportation equipment: aerospace, railroad and water-faring vehicles, equipment and parts, as well as land-based vehicles such as ATVs, motorcycles, bicycles, tanks, golf carts, etc. and their parts (collectively 3364-3369, blue dots). Output from this cluster fell 20.2 percent from 2008 to 2012; recovery and expansion ensued and peaked in 2017. These changes are similar to those seen nationwide. This cluster usually is concentrated here. Unfortunately, neither Annual Survey of Manufactures (ASM), Economic Census nor County Business Patterns (CBP) data agree on a specific source of this cluster's concentration here.

The chart above illustrates changes in the inflation-adjusted output from 2008 through 2020 of six more major durable goods industries concentrated in Ohio. Output from all fell by varying degrees in the 2008-2009 recession. Net growth in output from all is evident from 2009 through 2019. However, industries varied widely in how they were impacted by the COVID recession of 2020. Output from primary metals producers (NAICS 331, dark blue triangles) rose but fell among makers of fabricated metals products and machinery ( 332 and 333 , lighter blue rectangles and diamonds). Comparatively little changes were seen by makers of furniture, electrical equipment and appliances, and nonmetallic mineral products. None of the six industries appears to display long-term trends.

These patterns of changes in output from Ohio again are part of and frequently similar to national industry changes. Although the exact magnitude of the changes differ, they are in the same direction throughout the ups and downs in output.

ASM and CBP data again provide additional insights. All primary metals group activities are concentrated in Ohio: iron and steel mills and ferroalloy production (3311), steel products made from purchased steel (3312), aluminum smelting and subsequent production (3313) as well as producing other common metals (3314, principally copper). Foundry output and employment (3315) also are concentrated here. Appendix Tables A19 and A21 show the higher concentrations in the ferrous groups vs. non-ferrous groups (U.S. Bureau of the Census, 2021a, 2021b). Data from the U.S. Geological Survey (2021) confirm Ohio's prominent role in steel production: typically, 11 to 14 percent of U.S. raw steel production has come from Ohio in recent years, ranking it $2^{\text {nd }}$.

Output from all nine fabricated metal groups (332) is concentrated in Ohio to various degrees (U.S. Bureau of the Census, 2021a, 2021b). Output includes shaping metal pieces by forging, heat-treating, coating, stamping, bending, forming, machining, engraving and/or welding purchased materials. Stampings for motor vehicles are classified as motor vehicle parts - 33637. Products include cutlery, unpowered hand tools, boilers, containers, hardware, nuts, bolts, screws, rivets, wires, springs, valves and plumbing fixtures, bearings, safes, ladders, washers, tanks, and the output of machine shops. Washing machines and military weapons are classified elsewhere. In this case, ASM and CBP data lead to the conclusion that it is the combination of a variety of goods made in large volumes that results in Ohio's 3rd rank in industry GDP.

Machinery manufacturing output is concentrated to varying degrees in six of the seven industry groups: the more-focused industrial, commercial and service machinery industries (3332 and 3333), and the more widely applicable heating-ventilation-air conditioning (HVAC), commercial refrigeration equipment (3334), metalworking (3335), engines-turbinespower transmission equipment (3336) and general-purpose machinery (3339) groups (U.S. Bureau of the Census, 2021a, 2021b). ${ }^{5}$ The combination of a variety of goods made in large volumes contributes to Ohio's overall $5^{\text {th }}$ rank in industry GDP.

Ohio is the second-ranked source in the U.S. for electrical equipment and appliances. Economic Census (EC) and CBP data show this rank is due to the overwhelming concentration in household appliances (3352); 26.4 percent of U.S. valueadded for the group comes from Ohio and 20.6 percent of U.S. group jobs are located here - by far the largest percentages among the states. EC and CBP data suggest near proportional value-added and jobs in electric lighting equipment (3351) and mild concentrations in electrical equipment (3353) such as motors, generators, transformers, switching equipment, relays and industrial controls (turbines for generating electricity are classified elsewhere); and other electrical equipment and components (3359) such as batteries, wires and cables (U.S. Bureau of the Census, 2020, 2021a, 2021b).

Manufacturing non-metallic mineral products (mainly from silicates and calcites, 327) is concentrated in Ohio. ASM and CBP data agree that three of the five groups are concentrated here: clay and refractory products such as china, bricks, earthenware, pottery, porcelain, wall tiles, etc. (3271), glass (3272) and other materials (3279, abrasives, cut-stone products, fiberglass, stucco, etc.) (U.S. Bureau of the Census, 2021a, 2021b). As before, it is the combination of a variety of goods made in large volumes that results in Ohio's overall $3^{\text {rd }}$ rank in industry GDP. The output of household and institutional furniture and kitchen cabinets (3371) appears mildly concentrated here (U.S. Bureau of the Census, 2021a, 2021b).

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Changes in Non-durable Goods Manufacturing Output in Ohio, 2008-2020
(Industries Concentrated in Ohio)


Source: U.S. BEA
${ }^{\wedge}$ - A recession year for the nation; * - Initial; earlier years may be revised

## CONCENTRATED NON-DURABLE GOODS MANUFACTURING

The chart above illustrates the changing output levels of six major non-durable goods manufacturing industries concentrated in Ohio. Overall demand for non-durable goods is relatively steady when compared with durable goods, and this is evident in four industries: food and beverages, plastic, rubber and paper products, and printing (NAICS 311-2, 326 and $322-3$ ), all of which have experienced relatively steady output despite the ups and downs of the business cycle. Non-durables generally are expected to last less than three years; the more expensive durable goods typically last much longer. This contrasts with the substantial changes seen in petroleum and coal products (324, brown triangles) and, to a lesser extent, chemical output (324, red dots). These changes appear to be unrelated to the recessions and expansion, but its noteworthy that production levels for the last few years have been greater than in 2008.

These patterns of changes in Ohio are similar to corresponding national level changes for some industries: food-beverage-tobacco production ${ }^{6}$, rubber, plastic and paper products, and printing. These contrast with the changes seen in the U.S. production of chemicals and petroleum and coal products - both down in this time frame. However, petroleum and coal products concentration in Ohio appears to be lower in recent years, while the concentration of chemicals production here seems to have trended higher.

ASM and CBP data specify which groups drive their encompassing major industry concentrations here:

- The plastic and rubber products groups (3261 and 3262, the latter more than the former);
- Most notably food for animals (3111), processing and preserving fruits and vegetables (3114), and dairy (3115) and other food products (3119 - snacks, coffees, teas, flavorings, seasonings, dressings, etc.); and
- Paint-coatings-adhesives (3255) and soaps, cleaning compound and toiletries (3256) (U.S. Bureau of the Census, 2021a, 2021b).
Economic Census and CBP data specify additional industries concentrated here:
- Products made from purchased paper or paperboard (3222) including coated and laminated items;
- Actual printing on materials (32311) and pre-press and post-press activities (32312);
- Asphalt (32412), and lubricants, greases, petroleum jelly, coke, etc. (32419) (U.S. Bureau of the Census, 2020, 2021b).

The three sources disagree on other specific industries.

Changes in Goods Manufacturing Output in Ohio, 2008-2020
(Industries Not Concentrated in Ohio)


Source: U.S. BEA
${ }^{\wedge}$ - A recession year for the nation; * - Initial; earlier years may be revised

## OTHER MAJOR MANUFACTURING INDUSTRIES

The chart above illustrates the changing output levels of three durable goods and two non-durable goods industries not concentrated in Ohio. Production levels for two - computer-electronic and miscellaneous products (NAICS 334 and 339, blue squares and black-and-white rectangles) have trended up in recent years, but only miscellaneous products escaped the 2008-2009 recession's impact. A third - wood products (321, gold dots) recovered from the recession, but had little net change over the past dozen years. The fourth and fifth groups - textiles and apparel, etc. (313-316, purple triangles and diamonds) fluctuated but drifted lower.

The experiences of all five industries here are part of corresponding national-level changes. The only differences worth noting are the notably faster growth rates of wood products and computer and electronic products.

Annual Survey of Manufactures (ASM) and County Business Patterns (CBP) data show few exceptions to the overall sparse presence of these major industries in Ohio:

- Manufacturing other-leather-and-allied products (3169) like billfolds, shoe components, collars, leashes, harnesses, watchbands, luggage, purses, welders' jackets, etc. is concentrated here, as are other miscellaneous manufactures (3399 - jewelry, sporting goods, toys, games, office supplies, signs, etc.); while
- Navigational-measuring-medical-control instruments (3345) and manufacturing and reproducing magnetic and optical media (3346) may be proportional or concentrated, depending on the source (U.S. Bureau of the Census, 2021a, 2021b).


## Changes in Farming and Natural Resources Production in Ohio, 2008-2020

(Farming, Forestry, Fishing, Hunting \& Mining)


Source: U.S. BEA
$\wedge$ - A recession year for the nation; * - Initial; earlier years may be revised

## FARMING AND NATURAL RESOURCES

The chart above illustrates the varied recent histories of major natural resource and related industries in Ohio. The most obvious change has been the 970.6 percent increase in oil and gas production (NAICS 211, brown crosses) from 2008 to 2020. ${ }^{7}$ ODNR (2022) production data confirm the tremendous increases:

- total oil production rose 369.1 percent from 5.09 million barrels in 2008 to 23.86 million in 2020;
- total natural gas production rose 2,797.3 percent from 81.6 billion cubic feet in 2008 to 2,363.3 billion in 2020.

These increases are due to the development of the Marcellus and Utica shale deposits in Eastern Ohio beginning in 2011. Judging by volume, oil and natural gas extraction from these two formations comprised 89.7 and 98.4 percent, respectively, of all production for 2020 in Ohio (ODNR, 2022). Despite the production growth, Ohio oil and gas production from Ohio remains on the sparse side with 2.63 percent of U.S. GDP in 2020. County Business Patterns (CBP) data show industry employment (21112-3 and 213111-2) also is sparse in Ohio (U.S. Bureau of the Census, 2021b).

The growth of oil and gas production from Ohio contrasts with other mining production (212, black stars, principally from coal mines and quarries), which fluctuated over the years, trending lower in the last few years with a net decline of 28.2 percent from 2008 through 2020. Corresponding U.S. industry production also has trended lower with 2020 output 24.0 percent below that of 2008. Other mining output from Ohio remains sparse at 1.90 percent of U.S. industry GDP; this is consistent with actual coal production from Ohio during 2020, which was 0.7 percent of the U.S. total (U.S. EIA, 2022). Support activities for all mining (213, white dots) have fluctuated like those across the country. While CBP employment data indicate coal mining (2121) is proportional with the U.S. industry, related support jobs (213113) are sparse (U.S. Bureau of the Census, 2021b).

Farm production (NAICS 111-2, green squares) fluctuated from year to year, while output from the much smaller forestry-fishing-hunting cluster (113-5, green triangles) has trended higher. These patterns are roughly similar to their national counterparts. CBP data show all eight farm-support and forestry-fishing-hunting-etc. groups (1131-1153) are more or less sparse in Ohio, consistent with GDP figures. However, data from the U.S. DA (2022) indicate two exceptions in farming: in 2020, Ohio was the $7^{\text {th }}$ ranked source for soybeans with 6.4 percent of the U.S. total and the $8^{\text {th }}$ ranked source for corn with 4.0 percent of the U.S. total - both as measured in bushels harvested.

Changes in Infrastructure Sectors' Output in Ohio, 2008-2020


Source: U.S. BEA
$\wedge$ - A recession year for the nation; * - Initial; earlier years may be revised

## INFRASTRUCTURE

The chart above illustrates changing output levels from the two infrastructure components: (1) constructing the transportation networks, homes and other facilities with their component systems (NAICS 23), and (2) supplying the electricity, fuel, water - and sometime sewage treatment - necessary to keep them and related equipment operating (utilities, 22). No more-specific GDP figures for industries are available for either sector.

Construction activity in Ohio (gray squares) declined with the 2008-2009 recession, reaching a nadir in 2010 that was 15.2 percent below that of 2008. It rose fairly steadily to 2019 - a 29.2 percent expansion - and declined in 2020. A similar trend in national construction activity was evident: sector GDP falling 19.8 percent from 2008 through 2011, growing 25.0 percent from 2011 through 2019 and falling slightly in 2020. However, data in Appendix Table A3 show 2020 activity levels in Ohio are 31.3 percent lower than in 2000, with U.S. levels 16.8 percent less. Residential building permit data, which track part of the construction industry, tell a similar story. Permitted-units in Ohio in $2020(29,686)$ were 122.5 percent above the number at the depth of the recession in $2009(13,343)$, but were only 55.6 percent of the 2003 peak $(53,385)$ (U.S. Bureau of the Census, n.d.). ${ }^{8}$ County Business Patterns (CBP) data point to Ohio's non-residential building construction (2362) as essentially proportional with the nation (U.S. Bureau of the Census, 2021b).

The chart above also illustrates relatively small fluctuations in the otherwise steady provision of utility services by private sector organizations (orange diamonds). As judged by CBP employment numbers, these are: (1) principally generating and distributing electric power; (2) secondarily the local distribution of natural gas; and (3) supplying water and treating sewage as tertiary endeavors. Utility services provided by governments are included in the government sector. The net change in Ohio was a 4.3 percent increase from 2007 to 2019. However, data in Appendix Table A3a show 2020 service levels 9.9 percent lower than 2000. This 20-year history for Ohio contrasts with the 15.7 percent growth for the nation. This contrast is consistent with the very slow population growth in Ohio and the more rapid national growth. CBP data point to (1) roughly proportional activity in electric power generation, transmission and distribution (2211), (2) the concentration in local natural gas distribution (2212), and (3) sparse private sector water and sewage services (2213) here (U.S. Bureau of the Census, 2021b).

Changes in Transportation and Warehouse Services in Ohio, 2008-2020
(the More Freight-Oriented Industries)

$\wedge$ - A recession year for the nation; * - Initial; earlier years may be revised

## TRANSPORTATION AND WAREHOUSING - MOVING AND STORING FREIGHT

Private sector transportation and warehousing services move people and goods in large numbers. ${ }^{9}$ The more logistical industries in the sector principally move and store raw and intermediate materials as well as finished goods. The chart above shows the plurality of such services in Ohio are provided by the trucking industry (NAICS 484, orange squares), followed by combination of courier, support and sightseeing services (492, 488 and 487, brown squares). ${ }^{10}$ Rail transport (482, charcoal rectangles) was third-ranked until 2015; it is now rivalled by pipeline services (486, white dots), which grew in response to the tremendous increases in oil and gas production. Water transportation services provided by freighters and barges (483, blue triangles) had the smallest role. ${ }^{11}$

Trucking services show the effects of the 2008 recession and subsequent recovery, following the pattern seen in durable goods production. Courier-support-sightseeing services also contracted during the recession but did not begin recovery until about 2015; this may have been partially due to DHL Express terminating a major operation at Wilmington Air Park in 2009 and Amazon beginning use in 2015 (Wikipedia, 2019). ${ }^{12}$ These contrast with other major industries such as warehousing and storage (493, red diamonds) or rail, which were less affected by the recession, and pipeline and water transportation services, which appear to have been unaffected by the recession.

These patterns of change are more or less part of national level changes: (1) the contraction and partial recovery in trucking, (2) the decline and weaker recovery in courier and support services, (3) the relatively steady states of railroad and water transportation, (4) the more or less steady growth in warehousing and storage, and (5) the net growth in pipeline transportation. Ohio's growth rate was comparatively slower in the fourth item and faster in the fifth.

County Business Patterns (CBP) data specify generalized trucking (4841) as concentrated in Ohio. Generalized trucking moves a wide variety of commodities, often those that can be placed on pallets or in containers. Specialized trucking (4842), which uses tankers, refrigerated trailers or specialized equipment for moving household and specific industrial goods, is proportional. CBP data also point to a moderate concentration in couriers (4921) instead of local messenger and delivery services (4922). Similarly, CBP data specify the overall concentration in warehousing and storage services to general and other warehousing and storage (49311 and 49319) as opposed to refrigerated and farm produce storage (49312-3). To a large extent, this is consistent with the general concentration of manufacturing here. Employment in pipeline transportation is concentrated in moving crude oil and refined petroleum products ( 4861 and 4869) but not natural gas (4862). Rail and other transportation support (4882 and 4889) also are concentrated here (U.S. Bureau of the Census, 2021b). ${ }^{13}$

See Tables A7, A15-A17, A21

Changes in Transportation Services in Ohio, 2008-2020
(the More Passenger-Oriented Industries)

${ }^{\wedge}$ - A recession year for the nation; * - Initial; earlier years may be revised

## TRANSPORTATION - PASSENGER SERVICES

The chart above illustrates the BEA's presentation of the more passenger-oriented transportation services in Ohio:

- airlines (NAICS 481, black stars), which move more passengers than freight, ${ }^{14}$ and
- passenger ground transportation services such as taxis, limousines, commuter rail, and local and intercity bus systems (485, blue rectangles).
The chart shows both major industries contracting in the 2008-2009 recession. Recovery and sustained expansion was first evident in passenger ground transportation in 2011 and in airline services in 2013. These peaked in 2019 with a pronounced contraction in 2020. A similar pattern of expansion and steep contraction is evident across the nation.

Neither of these major transportation services is concentrated in Ohio, but County Business Patterns data point to one exception: non-scheduled air transportation (4812) (U.S. Bureau of the Census, 2021b). Non-scheduled air transportation is the flexible part of the system that will go anywhere at any time regularly scheduled airplanes do not.

Changes in Information Services in Ohio, 2008-2020

$\wedge$ - A recession year for the nation; * - Initial; earlier years may be revised

## INFORMATION

The chart above illustrates the net growth of three of the four major industries and clusters in this sector. The sector's net expansion of 27.6 percent was driven principally by the 111.1 percent increase in data processing, hosting and other information services, which include Internet publishing (NAICS 518 plus 519, green rectangles). The striking expansion and contraction of the broadcasting and telecommunication industry ( 515 plus 517, blue triangles) from 2008 to 2014 may be more apparent than real, more the outcome of methodological changes by the BEA dealing with the allocation of earned income by state than a measure of where economic activity occurred, ${ }^{15}$ and its 20.4 percent net gain may be more of an artifact from the 2008 recession starting point than anything else. The publishing industry (511, black and white squares), which includes software (5112) as well as print media (5111), grew 12.6 percent. The motion picture and sound recording industry (512, yellow dots) had been trending higher until it was hit by the COVID recession.

The changes seen in Ohio were part of changes seen for the nation as a whole. The difference is the slower growth rates and more severe contractions in Ohio.

Overall, the four industries or clusters are more or less sparse in Ohio despite their rapid growth. The only exception is the concentrated employment by print media with about 7.7 percent of the U.S. total, according to County Business Patterns (U.S. Bureau of the Census, 2021b).

Changes in Financial Services in Ohio, 2008-2020
(Banks, Investments, Insurance, Real Estate \& Rental/Leasing)


Source: U.S. BEA
$\wedge$ - A recession year for the nation; * - Initial; earlier years may be revised

## FINANCIAL, REAL ESTATE, RENTAL AND LEASING ACTIVITIES

The chart above illustrates the vastly different scale of various financial activities and their changes over a dozen years in Ohio. GDP numbers for real estate (NAICS 531, white squares), the largest major industry in both the nation and Ohio, are much more indicative of the role mortgages play the economy than of real estate office activities. ${ }^{16}$ The growth first evident in 2010 may indicate the start of the housing market's recovery after the 2008-2009 recession, the peak in 2013 may mark the culmination of pent-up demand and a return to normal times, and the downturn in 2020 coincides with the COVID recession. The changes in rental and leasing activities ( 532 plus 533 , white dots), a smaller cluster including but not limited to housing units, seem to move in the opposite direction from - perhaps presaging - the changes in real estate. The corresponding U.S. industries sustained growth from 2010 through 2019 with contractions in 2020.

Despite their combined size, both industries are relatively sparse in Ohio. However, County Business Patterns (CBP) data suggest Ohioans' tendency to lease or rent motor vehicles and other consumer goods (5321-3) is largely proportional with the nation (U.S. Bureau of the Census, 2021b).

Services provided by the Federal Reserve and commercial banks, savings-and-loans, credit unions, non-depository lenders, etc. (521-2, green rectangles) peak in the recession years of 2009 and 2020; their services in other years appear fairly steady. The relatively steady provision of credit intermediation services (despite the increase of the last few years) contrasts with the insurance industry's growth since 2013 (524, blue rectangles); the latter is now the larger of the two and has become the second largest industry in this super-cluster. These patterns shown for Ohio are part of similar national changes.

Security and investment establishments (523, gold diamonds) saw reduced activity in 2008 before investors returned to financial markets in 2009. Activity has moderated in recent years here and across the nation. This contrasts with the net decline of the tiny funds-and-trusts industry (525, purple triangles) here and nationwide.

CBP data point primarily to insurance carriers (5241, companies actually writing the policies and assuming the risks) and secondarily to depository credit intermediation (5221, banks, savings-and-loans, credit unions, etc.) as the groups driving sector (52) concentration here; the Federal Reserve also plays a small role (U.S. Bureau of the Census, 2021b). ${ }^{17}$

See Tables A9, A15-A17, A21

## Changes in Professional \& Business Services in Ohio, 2008-2020


$\wedge$ - A recession year for the nation; * - Initial; earlier years may be revised

## PROFESSIONAL AND BUSINESS SERVICES

The chart above illustrates the varied experiences and changing levels of service provided by six industries from three sectors principally serving businesses. At one end this spectrum, legal services (NAICS 5411, long black and white rectangles) contracted a net 29.6 percent over a dozen years. This contrasts with the nearly uninterrupted 70.2 percent growth in computer systems design and related services ( 5415 , short blue rectangles). The remaining professional, scientific and technical services (PST) (5412-4 and 5416-9, gold squares) also grew 14.1 percent. The only notable declines of the latter two were in 2020. All three trends were part of similar national trends. County Business Patterns (CBP) data indicate most PST services are not concentrated here; the exception is Other PST services (5419) such as marketing research, opinion polling, translating, photographic and veterinary services (U.S. Bureau of the Census, 2021b).

Enterprise management (55, purple diamonds) consists almost entirely of headquarters, regional or subsidiary management offices; holding companies are a tiny portion as judged by establishments and employment. CBP data show corporate and subsidiary managing offices are concentrated here (U.S. Bureau of the Census, 2021b). ${ }^{18}$ This is consistent with the 53 Fortune U.S.-1,000 companies headquartered here, six of which also are on Fortune's Global 500 list, ranking Ohio $5^{\text {th }}$ in the nation in both instances (Fortune, 2021). The chart above shows services contracting to the recession's 2009 nadir and expanding fairly consistently thereafter; the same is true for the industry nationwide.

Administrative support establishments (561, rose triangles) specialize in providing out-sourced services to businesses. Activities include document preparation, mailing, bookkeeping, collections and repossessions, as well as the functions of call centers, personnel, security, janitorial and clerical staff - among others. The chart above shows changes in such services often parallel changes in enterprise management. This growth pattern also mirrors the national trend. While this major industry has a proportional role in Ohio's economy, CBP data point to other support services (5619) such as repossession, court reporting, stenography, barcoding, inventory, lumber grading, fundraising, etc. as concentrated here (U.S. Bureau of the Census, 2021b). Private sector waste management and remediation services (562, green dots) include collecting, treating, incinerating or otherwise disposing of waste materials (except sewage, which is classified as a utility service). Also included are operating landfills and recovering recyclables. These services have trended higher here and across the nation over the decade but contracted in the 2020 COVID recession. This major industry's concentration here is focused on waste treatment and disposal (5622) (U.S. Bureau of the Census, 2021b).

## Changes in Health Care \& Assistance Services in Ohio, 2008-2020



Source: U.S. BEA
$\wedge$ - A recession year for the nation; * - Initial; earlier years may be revised

## HEALTH CARE AND SOCIAL ASSISTANCE

The chart above documents the recent history of the major private sector health care and social assistance industries. Health care services at ambulatory establishments (NAICS 621, green rectangles) and hospitals (622, blue diamonds) rose 33.1 and 14.7 percent, respectively, from 2008 through 2019, before declining 6.5 and 3.3 percent as COVID-19 spread across the state. Services provided by nursing and residential care facilities (623, light gray squares) continued to decline - just at a slightly steeper rate in 2020. The trends in ambulatory and hospital care mirror those seen for the nation as a whole, but long-term contraction in nursing and residential care here bucks the national expansion of such services. Hospitals and nursing/residential care facilities are concentrated in Ohio while ambulatory health care is essentially proportional. County Business Patterns (CBP) data suggest specific groups concentrated here:

- In ambulatory health care (621) they are physicians' offices (6211) and home health care work (6216);
- In hospitals (622) they are general medical and surgical (6221) and psychiatric and substance abuse (6222);
- In nursing and residential care facilities (623) they are nursing homes (6231), residential mental retardation and health facilities (6232) and community care facilities for the elderly (6233 - which lack nursing care) (U.S. Bureau of the Census, 2021b).

The smaller private sector social assistance industry (624, gold dots) was barely phased by the 2008-2009 recession, expanded 13.5 from 2009 to 2019 , but contracted 11.5 percent in the 2020 COVID recession. The expansion and contraction here was part of an encompassing national trend. Overall, the industry's role in Ohio's economy is close to proportional with the nation's, with a notable concentration in vocational rehabilitation services (6243) such as job counseling, training and/or work experience for those lacking such; sheltered workshops are included (U.S. Bureau of the Census, 2021b).

## Changes in Leisure \& Hospitality Services in Ohio, 2008-2020



Source: U.S. BEA
$\wedge$ - A recession year for the nation; * - Initial; earlier years may be revised

## LEISURE AND HOSPITALITY

A look at the chart above shows the varying effect of the 2008-2009 recession on three of the four major industries in this cluster as well as the dramatic impact of COVID-19 on all four in 2020. During the hard times of the 2008-2009 recession, people reduced discretionary expenditures such as:

- travel, which means less use of accommodations (NAICS 721, white rectangles);
- going out, which means less patronage of food services and drinking places (722, light gray dots); and
- participation in arts, sports and museums events (711-2, blue squares).

The exception in Ohio was the growth in amusements-gambling-recreation (713, red diamonds) first seen in 2009. Some forms of gambling (7132) were legalized in Ohio in 2009, with casinos opening in 2012. The growth of unregulated Internet or sweepstakes cafes may have played a role in growth from 2007 to 2012 (Ott, 2013). Services declined after 2013 while those of the other three major industries continued expanding for at least a few more years.

This contrasts with the COVID recession during which establishments were closed for a few months in an effort to limit the spread of the disease. The same patterns for the 2008-2009 and 2020 recessions are evident nationwide.

Despite legalized gambling's growth in Ohio, County Business Patterns data show it remains sparse here, with only spectator sports (7112), museums (71211), and zoos and gardens (71213) concentrated here (U.S. Bureau of the Census, 2021b).

## Changes in Trade, Education and Other Private Services in Ohio, 2008-2020


$\wedge$ - A recession year for the nation; * - Initial; earlier years may be revised

## TRADE, EDUCATION AND OTHER PRIVATE SECTOR SERVICES

The chart above illustrates the similarities and differences in the changing activity levels of four sectors. More specific industry GDP figures are unavailable. Activity levels in wholesale and retail trade (NAICS 42 and 44-45, green diamonds and gold dots) roughly parallel each other: both contracted during the 2008-2009 recession and noticeably expanded by 2013. They plateaued in 2017-2019 and contracted in 2020. Other private sector services (81, blue triangles) contracted in 2008-2009 but fluctuated thereafter until contracting again in 2020. These three patterns in Ohio are quite similar to and part of - corresponding national sector trends (U.S. BEA, 2021).

These contrast with the slight expansion of private sector educational services (61, red squares) from 2008 to 2010 and the subsequent contraction, very gradual until 2020. This is consistent with the idea some people enroll in or return to schools to add or improve skills when jobs are scarce, and choose jobs when jobs are more plentiful. Corresponding services for the nation as a whole also rose during the recession but have fluctuated with no discernible trend as the economy expanded (U.S. BEA, 2021).

Overall activity in wholesale, retail and other private sector services is largely proportional with the nation. However, County Business Patterns (CBP) data point to interesting wholesale sector variations: wholesalers distributing products of manufacturing industries concentrated in Ohio tend to have employment concentrated here. Wholesale jobs more or less concentrated here include those dealing in motor vehicles, parts and tires (4231), metals and minerals (except petroleum) (4235), hardware, plumbing and heating equipment (4237), machinery and equipment (4238) and chemicals and plastics (4246). The sparse employment among electrical equipment wholesalers (4236) is an exception to this tendency. CBP data also indicate the varying concentrations of some specific retail and other private sector activities in Ohio: lawn and garden equipment and supplies (4442), florists (4531), used merchandise stores (4533), vending machine operators (4542), commercial equipment repair and maintenance (8113 - excluding motor vehicle and electrical equipment repair), funeral homes, cemeteries and crematories (8122), and civic and social organizations (alumni associations, PTAs, scouts, ethnic associations, social clubs, fraternal lodges, veterans' organizations, etc., 8134). CBP data show no specific exceptions to the overall sparse private sector educational services (U.S. Bureau of the Census, 2021b).

See Tables A14-A17, A21

Changes in Government Services in Ohio, 2008-2020

$\wedge^{\wedge}$ - A recession year for the nation; * - Initial; earlier years may be revised

## FEDERAL, STATE AND LOCAL GOVERNMENT

Taken together, the services provided by federal, state and local government agencies enterprises are a little sparse in Ohio. However, the graph above illustrates the differences between the three parts of the sector. Around 77 percent of all government services in Ohio were provided by state and local agencies (NAICS 92sl, white triangles). ${ }^{19}$ Those services contracted a net 6.8 percent over a dozen years from $\$ 50.0$ to $\$ 46.6$ billion. The effects of the recessions are seen in 2009 and 2020, but contractions were milder than for the overall economy. Although no specific industry GDP data are available, jobs figures in Appendix Table A1c point to public education as the industry where the 2020 contraction mainly occurred. Concentration ratios at or very close to 1.00 mean that the state and local government services provided here remained in the middle of the range of services provided by all state and local governments in the U.S.

By contrast, the civilian part of the federal government, including the Postal Service (92fc and 491, blue squares), plays a relatively small and sparse role in the state's economy. The military's role (92811, red dots) is proportionally even smaller despite the presence of facilities such as the Defense Supply Center (Columbus), Wright-Patterson Air Force Base (Dayton), and two Defense Finance and Accounting Service centers (Cleveland and Columbus). Data from other sources are consistent with the GDP concentration ratios; for example:

- 0.18 percent of the labor force (employed and unemployed persons ages 16 years and older) in Ohio was in the armed forces - less than the national average of 0.73 percent (U.S. Bureau of the Census, 2020);
- 1.82 percent of all employed persons ages 16 years and older in Ohio worked for the federal government - less than the national average of 2.43 percent (U.S. Bureau of the Census, 2020; bases for the percentages include self-employed and unpaid family workers);
- 1.53 percent of the value of 2019 U.S. Department of Defense procurement contracts went to firms in Ohio (U.S. SAM, 2021).


## SUMMARIZING CHANGES: 4 ${ }^{\text {th }}$ QUARTER 2019 TO 2 ${ }^{\text {nd }}$ QUARTER 2020

The right-most columns in the table below display the widespread but varied impact of COVID-19 on Ohio's economy. Overall, private sector output declined more than government services in both absolute and relative terms: $\$ 63.2 \mathrm{vs} . \$ 3.1$ billion and 11.4 vs. 4.8 percent. Within the private sector, the severity of the contractions exceeded 45 percent for some sectors while others were essentially untouched; real output from the mining and weather-dependent agriculture-forestry-fishing-hunting sectors actually rose. The hardest hit industries may have been those more dependent on travel, face-toface or close-quarters interaction, less able to work-from-home or conduct business on-line, and those whose services and products are at least temporarily postpone-able. Non-COVID factors also could have affected changes.

|  | GDP* |  | Changes* |  |
| :---: | :---: | :---: | :---: | :---: |
| Sector | 19-Q4 | 20-Q2 | Numeric | Percent |
| Ohio Total | \$615.2 | \$549.3 | -\$66.0 | -10.7\% |
| Private sector | \$552.0 | \$488.8 | -\$63.2 | -11.4\% |
| Goods-producing summary | \$137.4 | \$121.3 | -\$16.1 | -11.7\% |
| Agriculture, forestry, fishing \& hunting | \$4.2 | \$5.4 | \$1.2 | 29.9\% |
| Mining | \$9.0 | \$10.0 | \$1.0 | 11.1\% |
| Construction | \$19.8 | \$17.7 | -\$2.1 | -10.8\% |
| Durable goods manufacturing | \$56.7 | \$44.5 | -\$12.2 | -21.6\% |
| Non-durable goods manufacturing- | \$47.7 | \$44.1 | -\$3.6 | -7.6\% |
| Service-providing summary | \$414.5 | \$369.5 | -\$45.0 | -10.9\% |
| Utilities - | \$9.6 | \$9.6 | \$0.0 | -0.4\% |
| Wholesale trade | \$37.7 | \$34.0 | -\$3.7 | -9.9\% |
| Retail trade | \$38.2 | \$34.7 | -\$3.5 | -9.2\% |
| Transportation \& warehousing | \$19.5 | \$16.2 | -\$3.3 | -17.1\% |
| Information - | \$19.7 | \$18.8 | -\$0.9 | -4.6\% |
| Finance \& insurance | \$55.6 | \$53.9 | -\$1.6 | -2.9\% |
| Real estate, rental \& leasing- | \$66.1 | \$62.6 | -\$3.4 | -5.2\% |
| Professional, scientific \& technical | \$34.9 | \$31.3 | -\$3.6 | -10.3\% |
| Management of companies \& enterprises | \$23.6 | \$23.0 | -\$0.6 | -2.5\% |
| Administrative support \& waste management | \$18.1 | \$14.9 | -\$3.2 | -17.5\% |
| Education-------------- | \$5.2 | \$4.4 | -\$0.8 | -14.8\% |
| Health care \& social assistance | \$54.2 | \$46.2 | -\$8.0 | -14.8\% |
| Arts, entertainment \& recreation- | \$6.3 | \$2.7 | -\$3.6 | -55.7\% |
| Accommodation \& food services | \$14.1 | \$8.1 | -\$6.0 | -42.8\% |
| Other non-governmental services- | \$11.8 | \$9.1 | -\$2.7 | -22.7\% |
| Government | \$63.4 | \$60.3 | -\$3.1 | -4.8\% |

Notes: * - annualized, in billions and standardized on 2012; figures may not sum to totals due to rounding and different adjustment factors; percentages usually are based on unrounded numbers.

## SUMMARIZING CHANGES: 4 ${ }^{\text {th }}$ QUARTER 2019 TO 3 ${ }^{\text {rd }}$ QUARTER 2021

The right-most columns in the table below show aggregate output from Ohio had recovered from the COVID recession in the third quarter of 2021; the difference from the fourth quarter of 2019 is small after adjusting for inflation. Detailed figures show output from eight sectors exceeding fourth quarter 2019 levels and 13 with output less than that. Among the lagging sectors, 11 have seen increased output from the depths of the recession in 2020's second quarter; these sectors are highlighted in bold below. Again, non-COVID factors also could have affected the changes among all sectors.

|  | GDP* |  | Changes* |  |
| :---: | :---: | :---: | :---: | :---: |
| Sector | '19-Q4 | 21-Q3 | Numeric | Percent |
| Ohio Total | \$615.2 | \$615.3 | \$0.0 | 0.0\% |
| Private sector | \$552.0 | \$552.4 | \$0.3 | 0.1\% |
| Goods-producing summary | \$137.4 | \$142.0 | \$4.6 | 3.3\% |
| Agriculture, forestry, fishing \& hunting | \$4.2 | \$6.4 | \$2.0 | 54.0\% |
| Mining | \$9.0 | \$10.1 | \$1.1 | 11.8\% |
| Construction | \$19.8 | \$19.0 | -\$0.8 | -4.2\% |
| Durable goods manufacturing | \$56.7 | \$55.8 | -\$0.9 | -1.5\% |
| Non-durable goods manufacturing- | \$47.7 | \$50.9 | \$3.2 | 6.6\% |
| Service-providing summary | \$414.5 | \$412.8 | -\$1.7 | -0.4\% |
| Utilities - | \$9.6 | \$8.8 | -\$0.8 | -7.9\% |
| Wholesale trade | \$37.7 | \$36.1 | -\$1.6 | -4.3\% |
| Retail trade | \$38.2 | \$35.5 | -\$2.7 | -7.0\% |
| Transportation \& warehousing | \$19.5 | \$19.4 | -\$0.1 | -0.6\% |
| Information | \$19.7 | \$21.0 | \$1.3 | 6.4\% |
| Finance \& insurance | \$55.6 | \$58.9 | \$3.3 | 5.9\% |
| Real estate, rental \& leasing- | \$66.1 | \$64.6 | -\$1.5 | -2.2\% |
| Professional, scientific \& technical | \$34.9 | \$35.7 | \$0.8 | 2.2\% |
| Management of companies \& enterprises | \$23.6 | \$25.3 | \$1.8 | 7.5\% |
| Administrative support \& waste management | \$18.1 | \$19.7 | \$1.6 | 8.8\% |
| Education- | \$5.2 | \$4.6 | -\$0.6 | -11.7\% |
| Health care \& social assistance | \$54.2 | \$53.8 | -\$0.4 | -0.8\% |
| Arts, entertainment \& recreation | \$6.3 | \$5.6 | -\$0.7 | -11.4\% |
| Accommodation \& food services | \$14.1 | \$13.2 | -\$1.2 | -6.8\% |
| Other non-governmental services | \$11.8 | \$10.7 | -\$1.1 | -9.2\% |
| Government | \$63.4 | \$63.1 | -\$0.2 | -0.4\% |

Notes: * - annualized, in billions and standardized on 2012; figures may not sum to totals due to rounding and different adjustment factors; percentages usually are based on unrounded numbers.

Aggregate Gross Domestic Products for Multi-county Metropolitan Areas in Ohio, 2007-2020
(in millions of chained dollars standardized on 2012)

| Area (Number of Counties) | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U.S. | \$15,623,871 | \$15,642,962 | \$15,236,262 | \$15,648,991 | \$15,891,534 | \$16,253,970 | \$16,553,348 | \$16,932,051 | \$17,390,295 | \$17,680,274 | \$18,079,084 | \$18,606,787 |
| Ohio | \$546,729 | \$537,124 | \$511,076 | \$523,979 | \$541,180 | \$545,740 | \$556,211 | \$574,178 | \$578,852 | \$583,946 | \$590,739 | \$598,917 |
| Akron (2) | \$32,169 | \$31,729 | \$29,801 | \$30,542 | \$30,658 | \$30,948 | \$31,395 | \$32,018 | \$32,175 | \$32,247 | \$32,639 | \$33,277 |
| Canton-Massillon (2) | \$15,003 | \$14,764 | \$13,857 | \$14,603 | \$15,655 | \$15,337 | \$16,362 | \$17,397 | \$17,481 | \$17,226 | \$17,328 | \$17,245 |
| Cincinnati (Ohio part, 5)^ | \$91,740 | \$91,285 | \$87,861 | \$90,561 | \$94,241 | \$94,967 | \$95,950 | \$98,569 | \$100,696 | \$104,247 | \$105,188 | \$106,390 |
| Cleveland-Elyria (5) | \$115,243 | \$114,119 | \$106,621 | \$107,682 | \$109,634 | \$110,449 | \$110,726 | \$112,901 | \$113,216 | \$113,545 | \$114,578 | \$117,230 |
| Columbus (10) | \$95,866 | \$94,646 | \$91,720 | \$94,509 | \$98,191 | \$101,853 | \$104,567 | \$107,732 | \$109,401 | \$111,826 | \$114,836 | \$116,945 |
| Dayton-Kettering (3) | \$37,173 | \$36,197 | \$34,208 | \$35,095 | \$36,091 | \$35,902 | \$35,994 | \$36,360 | \$36,693 | \$37,233 | \$38,303 | \$39,237 |
| Toledo (4) | \$33,425 | \$31,367 | \$29,703 | \$30,757 | \$32,258 | \$31,882 | \$32,696 | \$34,731 | \$33,018 | \$32,994 | \$33,118 | \$34,021 |
| Youngstown... (Ohio part, 2)^ | \$17,704 | \$17,163 | \$15,306 | \$15,696 | \$16,219 | \$15,934 | \$15,913 | \$15,629 | \$15,409 | \$15,260 | \$14,922 | \$14,988 |


| Area (Number of Counties) | 2019 | 2020* | Net Changes: `07-`09 |  | Net Changes: `09-^19} & \multicolumn{2}{\|l|}{Net Changes: `19-`20} & \multicolumn{2}{\|l|}{Net Changes: `07-'20 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Number | Percent | Number | Percent | Number | Percent | Number | Percent |  |
| U.S. | \$19,032,672 | \$18,384,687 | -\$387,609 | -2.5\% | \$3,796,410 | 24.9\% | -\$647,985 | -3.4\% | \$2,760,816 | 17.7\% |  |
| Ohio | \$611,146 | \$589,898 | -\$35,653 | -6.5\% | \$100,069 | 19.6\% | -\$21,248 | -3.5\% | \$43,168 | 7.9\% |  |
| Akron (2) | \$33,714 | \$31,886 | -\$2,368 | -7.4\% | \$3,913 | 13.1\% | -\$1,828 | -5.4\% | -\$282 | -0.9\% |  |
| Canton-Massillon (2) | \$17,310 | \$16,470 | -\$1,145 | -7.6\% | \$3,453 | 24.9\% | -\$840 | -4.9\% | \$1,467 | 9.8\% |  |
| Cincinnati (Ohio part, 5)^ | \$110,518 | \$106,071 | -\$3,879 | -4.2\% | \$22,657 | 25.8\% | -\$4,448 | -4.0\% | \$14,331 | 15.6\% |  |
| Cleveland-Elyria (5) | \$119,388 | \$114,298 | -\$8,622 | -7.5\% | \$12,767 | 12.0\% | -\$5,090 | -4.3\% | -\$945 | -0.8\% |  |
| Columbus (10) | \$119,874 | \$117,134 | -\$4,146 | -4.3\% | \$28,153 | 30.7\% | -\$2,740 | -2.3\% | \$21,268 | 22.2\% |  |
| Dayton-Kettering (3) | \$40,187 | \$38,766 | -\$2,965 | -8.0\% | \$5,980 | 17.5\% | -\$1,422 | -3.5\% | \$1,593 | 4.3\% |  |
| Toledo (4) | \$35,026 | \$33,455 | -\$3,722 | -11.1\% | \$5,324 | 17.9\% | -\$1,571 | -4.5\% | \$31 | 0.1\% |  |
| Youngstown... (Ohio part, 2)^ | \$15,242 | \$14,518 | -\$2,397 | -13.5\% | -\$65 | -0.4\% | -\$724 | -4.7\% | -\$3,185 | -18.0\% |  |

Notes: * - initial; earlier years may be revised; ^ - estimated from sums of Brown, Butler, Clermont, Hamilton and Warren Counties for the part of Cincinnati in Ohio, and Mahoning and Trumbull Counties for the part of Youngstown-Warren-Boardman in Ohio.

Source: U.S. BEA (2021).
Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

## RECESSION AND RECOVERY IN METROPOLITAN AREAS AND COUNTIES

The table above displays changes in economic output for six multi-county metropolitan areas (MAs) wholly in Ohio and two crossing state boundaries, as well as for the state and the nation. Ohio portions of the latter two are also displayed. One-county MAs - either wholly in Ohio or as part of a cross-state MA - are part of the county tables. The figures have been adjusted for inflation and standardized on 2012.

The widespread impact of the recession during 2007-2009 is evident with output from all eight contracting at steeper rates than the national average of 2.7 percent; six of the eight contracted at rates steeper than the state average of 6.5 percent. Youngstown-Warren-Boardman was hit the hardest, with the Ohio portion contracting 13.5 percent. These figures contrast with Cincinnati and Columbus, which contracted 4.2 and 4.3 percent, respectively. One partial explanation may be that Cincinnati and Columbus are relatively less dependent on the highly cyclical steel and motor vehicle industries.

All the multi-county MAs except Youngstown-Warren saw real growth from 2009 through 2019. Columbus grew at a rate notably higher than the U.S. average, while Canton-Massillon and the Cincinnati portion of Ohio grew at rates matching and slightly higher than the U.S. average, respectively. The slower-than-average expansion rates in other MAs may be partially explained by the steel and motor vehicle industries not completely returning to pre-recession output levels due to plant closures, product changes and shifting market preferences. Canton-Massillon is the exception, due in part to the expansion of oil-and-gas extraction in Carroll County.

COVID-19 impacted Ohio and the multi-county MAs to a lesser and much less varied degree over the course of the year than did the financial crisis of 2008-2009. As noted earlier, quarterly figures showed the contraction in Ohio was steep but short with a rapid and substantial recovery by the end of the year. Quarterly figures are not available for substate areas. Net output declines ranged from 2.3 percent in Columbus to 5.4 percent in Akron. These are relatively closer to the national and state averages of 3.4 and 3.5 percent.

Changes for all of Ohio's counties - metropolitan and non-metropolitan - are shown in Appendix Table A22.

Inflation-Adjusted Changes in Aggregate and Per Capita GDP, 2000-2020
Ohio and the U.S.: 2000=100


Sources: U.S. Census Bureau, U.S. BEA
$\wedge$ - a recession year; * - initial; earlier years may be revised

## PAST CHANGES AND FORECASTS FOR THE FUTURE: FOUR PARTS

Part 1: The chart above shows that, after adjusting for inflation, Ohio's absolute output (red squares) grew a net 7.2 percent from 2000 through 2007. The corresponding growth of the U.S. absolute output (blue squares) was 18.9 percent. The chart also shows 2008-2009 recession hit Ohio harder than most of the nation: total output of goods and services here fell 6.5 percent as the index value dropped from 107.2 to 100.2 , while national output fell 2.5 percent from 118.9 to 116.0. Subsequent figures show Ohio's absolute output growing 19.6 percent in Ohio from 100.2 to 119.8 over 10 years; the national economy expanded 24.9 percent during the same time. Ohio's economic output in 2020 was 3.5 percent less than in 2019 due to closures and slowdowns prompted by the COVID-19 pandemic; corresponding national output fell 3.4 percent.


#### Abstract

Absolute numbers do not tell the whole story. Several factors may explain the seemingly faster growth rates and milder contractions of the U.S. economy as compared with Ohio's; one is population growth. Population figures from the Census Bureau show the U.S. population growing 16.8 percent from 2000 through 2020, a much higher rate than Ohio's 2.9 percent; and the chart on page 180 in the Appendix shows states with faster-growing populations tended to have more rapidly growing economies. For this reason, the chart above also illustrates expansions and contractions after adjusting for population growth. Per capita GDP from Ohio (white dots with red borders) was 5.9 percent greater in 2007 than in 2000, modestly less than the 7.2 percent for the state's absolute output. By comparison, per capita GDP for the nation (white dots with blue borders) rose 11.4 percent during the same time. This is a higher rate than Ohio, but substantially less than the 18.9 percent absolute increase. The population growth adjustment also means the impact of the recession has been deeper than indicated by absolute figures alone. Per capita GDP from Ohio fell 6.8 percent - fractionally more than the 6.5 percent based on absolute output. However, per capita GDP for the nation declined 4.2 percent, notably more than the 2.5 percent for absolute output. It is also notable that national per capita GDP remained less than its 2007 pre-recession peak until 2013 - the same as Ohio. From 2009 through 2019 the U.S. economic output expanded 24.9 percent compared with Ohio's 19.6 percent. However, the per capita adjustments reverse the rankings with Ohio at 17.9 percent vs. the national average of 16.7 percent. The per capita effect of the COVID-19 pandemic was flipped; economic output for Ohio contracted 3.5 percent while national output fell 3.8 percent.


Per Capita Gross Domestic Products for Multi-county Metropolitan Areas in Ohio, 2007-2020 (chained dollars standardized on 2012)

| Area (Number of Counties) | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U.S. | \$51,867 | \$51,441 | \$49,666 | \$50,590 | \$51,002 | \$51,784 | \$52,374 | \$53,181 | \$54,219 | \$54,726 | \$55,607 | \$56,930 |
| Ohio | \$47,540 | \$46,644 | \$44,330 | \$45,408 | \$46,873 | \$47,246 | \$48,033 | \$49,470 | \$49,805 | \$50,167 | \$50,639 | \$51,273 |
| Akron (2) | \$45,732 | \$45,115 | \$42,369 | \$43,442 | \$43,593 | \$44,071 | \$44,610 | \$45,409 | \$45,663 | \$45,819 | \$46,354 | \$47,281 |
| Canton-Massillon (2) | \$36,958 | \$36,351 | \$34,204 | \$36,128 | \$38,814 | \$38,013 | \$40,559 | \$43,088 | \$43,428 | \$42,939 | \$43,380 | \$43,270 |
| Cincinnati (Ohio part, 5)^ | \$57,084 | \$56,585 | \$54,193 | \$55,650 | \$57,824 | \$58,109 | \$58,477 | \$59,786 | \$60,811 | \$62,643 | \$62,883 | \$63,330 |
| Cleveland-Elyria (5) | \$55,098 | \$54,731 | \$51,234 | \$51,883 | \$52,986 | \$53,486 | \$53,556 | \$54,600 | \$54,838 | \$55,082 | \$55,684 | \$57,078 |
| Columbus (10) | \$52,058 | \$50,731 | \$48,592 | \$49,575 | \$50,967 | \$52,297 | \$52,955 | \$53,801 | \$53,932 | \$54,456 | \$55,102 | \$55,538 |
| Dayton-Kettering (3) | \$46,359 | \$45,235 | \$42,819 | \$43,885 | \$45,059 | \$44,776 | \$44,898 | \$45,371 | \$45,833 | \$46,407 | \$47,647 | \$48,700 |
| Toledo (4) | \$51,010 | \$47,997 | \$45,540 | \$47,218 | \$49,609 | \$49,133 | \$50,412 | \$53,643 | \$51,091 | \$51,085 | \$51,360 | \$52,852 |
| Youngstown... (Ohio part, 2)^ | \$38,676 | \$37,825 | \$33,913 | \$35,024 | \$36,351 | \$35,974 | \$36,097 | \$35,638 | \$35,388 | \$35,314 | \$34,714 | \$35,057 |

| Area (Number of Counties) | 2019 | 2020* | Net Changes: `07-`09 |  | Net Changes: `09-`19 |  | Net Changes: '19-'20 |  | Net Changes: `07-'20 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| U.S. | \$57,968 | \$55,798 | -\$2,200 | -4.2\% | \$8,302 | 16.7\% | -\$2,170 | -3.7\% | \$3,932 | 7.6\% |
| Ohio | \$52,250 | \$50,448 | -\$3,210 | -6.8\% | \$7,920 | 17.9\% | -\$1,802 | -3.4\% | \$2,908 | 6.1\% |
| Akron (2) | \$47,941 | \$45,458 | -\$3,363 | -7.4\% | \$5,572 | 13.2\% | -\$2,483 | -5.2\% | -\$274 | -0.6\% |
| Canton-Massillon (2) | \$43,525 | \$41,521 | -\$2,753 | -7.5\% | \$9,321 | 27.3\% | -\$2,004 | -4.6\% | \$4,563 | 12.3\% |
| Cincinnati (Ohio part, 5)^ | \$65,466 | \$62,656 | -\$2,891 | -5.1\% | \$11,273 | 20.8\% | -\$2,810 | -4.3\% | \$5,572 | 9.8\% |
| Cleveland-Elyria (5) | \$58,266 | \$55,924 | -\$3,864 | -7.0\% | \$7,032 | 13.7\% | -\$2,342 | -4.0\% | \$826 | 1.5\% |
| Columbus (10) | \$56,398 | \$54,763 | -\$3,465 | -6.7\% | \$7,805 | 16.1\% | -\$1,635 | -2.9\% | \$2,705 | 5.2\% |
| Dayton-Kettering (3) | \$49,707 | \$47,903 | -\$3,540 | -7.6\% | \$6,888 | 16.1\% | -\$1,803 | -3.6\% | \$1,545 | 3.3\% |
| Toledo (4) | \$54,500 | \$52,148 | -\$5,470 | -10.7\% | \$8,960 | 19.7\% | -\$2,353 | -4.3\% | \$1,138 | 2.2\% |
| Youngstown... (Ohio part, 2)^ | \$35,814 | \$34,332 | -\$4,762 | -12.3\% | \$1,901 | 5.6\% | -\$1,482 | -4.1\% | -\$4,343 | -11.2\% |

Notes: * - initial; earlier years may be revised; ^ - estimated from sums of Brown, Butler, Clermont, Hamilton and Warren Counties for the part of Cincinnati in Ohio, and Mahoning and Trumbull Counties for the part of Youngstown-Warren-Boardman in Ohio.

Source: U.S. BEA (2021).
Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

The same per capita GDP approach has been applied to the multi-county metropolitan areas (MAs) in Ohio, yielding further insight into their economic fortunes. The table above displays and summarizes the changes in inflation-adjusted per capita GDP from 2007 through 2020. As with the aggregate figures, the recession was - and the recovery and expansion were - widespread across Ohio; all the net change figures for the eight MAs were negative during 2007-2009, all the net changes were positive during 2009-2019, and all the net changes were negative in the COVID recession. However, several changes stand out:

- During 2007-2009: After adjusting for their population growth, the economic contractions in Cincinnati (Ohio portion) and Columbus were steeper than the aggregate figures indicated; at least 5.1 vs. 4.2 percent in Cincinnati, and 6.7 vs. 4.3 percent in Columbus due to their population growth; conversely, the contraction in Cleveland-Elyria, DaytonKettering, Toledo and Youngstown-Warren (Ohio portion) were not quite as steep as aggregate figures indicated, usually due to slightly smaller populations; Akron's contraction was unchanged because its population was nearly constant.
- During 2009-2019: After adjusting for their population growth, the expansions in Cincinnati and Columbus were at slower rates than the aggregate figures indicate - less than 20.8 vs. 25.8 percent in Cincinnati, and 16.1 vs. 30.7 percent in Columbus; Dayton-Kettering is a much milder example of this phenomenon; conversely, the growth rates in Canton-Massillon, Cleveland-Elyria, Toledo and Youngstown-Warren were greater than aggregate figures would lead one to believe after adjusting for population decreases; again, virtually no difference is seen in Akron due to it nearly constant population.
- Over the 12 years: Canton-Massillon stands out as the most rapidly growing economy at 12.3 percent, perhaps principally due to the recovery of the iron and steel industry in Stark County as well as the expansion of oil-and-gas extraction in Carroll County; Cincinnati follows as the only other multi-county MA that grew at a rate exceeding the national average; these contrasts with Youngstown-Warren, where per capita GDP in 2020 remained 11.2 percent below output from 2007.
Differences between per capita and aggregate contractions during the COVID recession are marginal due to the short time span and concomitant small changes in population.

Despite the various changes, it should be noted that Cincinnati, Cleveland and Columbus maintained per capita GDP output levels usually exceeding $\$ 50,000$ per year - greater than the state average and, for Cincinnati, greater than the national average. These three remained the principal powerhouses of Ohio's economy even after adjusting for their much larger populations. Among the smaller MAs, only Toledo rivaled the big three on a per capita basis.

## Comparing Relative Portions of Ohio's Economy with the U.S.*

by Concentration (2000) and Inflation-Adjusted Growth Rate (2000-2020)

Industries Concentrated in Ohio:
Ohio - 48.0\%
U.S. - $35.8 \%$


Concentration

Industries Not Concentrated in Ohio:
Ohio - 52.0\%
U.S. - 64.2\%


Slower-Growth or Contracting Industries: Ohio - 65.4\% U.S. - 60.9\%

Growth Rate

More Rapidly Growing Industries: Ohio-34.6\% U.S. - 39.1\%

Note: * - Components may not sum to totals due to rounding error

Part 2: A second factor associated with the different economic growth rates of Ohio and the U.S. may be differences in the composition of their economies. Appendix Table A24 shows that various industries grew at rates faster or slower than the national average of 39.9 percent for 2000-2020; some industries even contracted during that time. It also shows the industries concentrated in Ohio in varying degrees as well as those that are relatively sparse. The industries can be grouped by those characteristics, and the portions of the Ohio and U.S. economy may be calculated for each of the four groups:
(1) those growing faster than the overall national growth rate and concentrated-in-Ohio,
(2) slower-growing/contracting and concentrated here,
(3) faster-growing but sparse in Ohio, and
(4) slower-growing/contracting and sparse here.

The chart above illustrates the relative portions of the four groups for the U.S. and Ohio economies in 1999 as represented by the blue and white areas, respectively. Overall, 34.6 percent of Ohio's economic output in 2000 was in industries characterized by faster-than-average national growth rates for the then-coming 20 years. (See the white areas on the right side; $12.2+22.4=34.6$.) This compares with 39.1 percent for the U.S. (See the blue areas on the right side; $9.7+29.4=39.1$.) Conversely, 65.4 percent of Ohio's economic output in 2000 was in industries that would be characterized by slower-than-average or negative growth rates, compared with 60.9 percent of the U.S. (These are sums of the white and blue areas on the left side.)

Specific comparisons are even more telling. In 2000, 12.2 percent of Ohio's output was from rapid-growth industries concentrated here compared with only 9.7 percent of U.S. output, a difference of 2.5 percent favoring more rapid growth in Ohio. However, this was more than offset by the relative scarcity of other rapid-growth industries in Ohio: 22.4 vs. 29.4 percent, a deficit of 7.0 percent for the state. Furthermore, 35.8 percent Ohio's output that year came from slow-growth or contracting industries concentrated here vs. only 26.1 percent of total U.S. output, a 9.7 percent difference more than offsetting the state's advantage in other such industries not concentrated here -26.9 vs .34 .8 , or 5.2 percent. All of these contrasts point to the conclusion that - regardless of different population growth rates - Ohio's mix of industries in 2000 predisposed it toward slower economic growth through 2020.

| NAICS Code(s) | Description | $\begin{array}{r} \text { Net Change } \\ 2000-2020 \\ \hline \end{array}$ | Percent Change | Proportional Contribution to Net Growth* | NAICS Code(s) | Description | $\begin{aligned} & \text { Net Change } \\ & 2000-2020 \\ & \hline \end{aligned}$ | Percent Change | Proportional Contribution to Net Growth* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11-92 | Total | \$79,948.5 | 15.7\% |  | 113-5 | Forestry, fishing, \& related activities | \$193.9 | 65.4\% | 0.2\% |
|  | Sum of Net Changes* | \$79,553.9 |  | 100.0\% | 711-2 | Performing arts, museums \& related activities | \$131.4 | 6.9\% | 0.2\% |
|  |  |  |  |  | 315-6 | Apparel, leather \& allied products | \$53.3 | 37.1\% | 0.1\% |
| 55 | Management of companies \& enterprises | \$12,168.7 | 99.2\% | 15.3\% | 321 | Wood products | -\$23.9 | -2.5\% | 0.0\% |
| 524 | Insurance carriers \& related activities | \$11,927.3 | 79.8\% | 15.0\% | 61 | Educational srvcs. | -\$32.4 | -0.7\% | 0.0\% |
| 531 | Real estate | \$10,833.0 | 23.0\% | 13.6\% | 483 | Water transportation | -\$48.0 | -31.1\% | -0.1\% |
| 521-2 | Federal Reserve banks, credit intermediation, etc. | \$9,949.0 | 68.0\% | 12.5\% | 512 | Motion pictures \& sound recordings | -\$62.1 | -18.6\% | -0.1\% |
| 211 | Oil \& gas extraction | \$9,888.9 | 1076.5\% | 12.4\% | 485 | Transit \& ground passenger transportation | -\$64.0 | -13.0\% | -0.1\% |
| 621 | Ambulatory health care srvcs. | \$8,958.9 | 59.3\% | 11.3\% | 313-4 | Textile \& textile product mills | -\$198.2 | -35.9\% | -0.2\% |
| 5415 | Computer systems design \& related srvcs. | \$6,634.5 | 295.6\% | 8.3\% | 323 | Printing \& related support activities | -\$255.2 | -13.6\% | -0.3\% |
| 42 | Wholesale trade | \$6,285.0 | 20.9\% | 7.9\% | 487-8, 492 | Other transportation \& support activities | -\$295.9 | -7.0\% | -0.4\% |
| 622 | Hospitals | \$5,786.3 | 44.6\% | 7.3\% | 484 | Truck transportation | -\$327.7 | -5.0\% | -0.4\% |
| 325 | Chemical | \$4,729.4 | 41.2\% | 5.9\% | 623 | Nursing \& residential care facilities | -\$478.0 | -8.1\% | -0.6\% |
| 324 | Petroleum \& coal products | \$4,039.8 | 57.0\% | 5.1\% | 482 | Rail transportation | -\$591.8 | -36.8\% | -0.7\% |
| 5412-4, 5416-9 | Other professional, scientific \& technical srvcs. | \$4,006.7 | 25.4\% | 5.0\% | 532-3 | Rental \& leasing srvcs. \& lessors of intangible assets | -\$610.2 | -10.1\% | -0.8\% |
| 561 | Administrative \& support srvcs. | \$3,917.5 | 35.1\% | 4.9\% | 721 | Accommodation | -\$675.8 | -33.7\% | -0.8\% |
| 515, 517 | Broadcasting \& telecommunications | \$3,602.5 | 60.3\% | 4.5\% | 327 | Nonmetallic mineral products | -\$679.4 | -17.8\% | -0.9\% |
| 518, 519 | Data prcsng., hosting, other info. (inc. Internet) | \$3,171.0 | 650.3\% | 4.0\% | 322 | Paper | -\$781.2 | -26.4\% | -1.0\% |
| 493 | Warehousing \& storage | \$3,032.7 | 264.0\% | 3.8\% | 335 | Electrical eqpt. \& appliances | -\$783.9 | -15.1\% | -1.0\% |
| 44-45 | Retail trade | \$2,977.6 | 8.8\% | 3.7\% | 337 | Furniture \& related products | -\$812.0 | -45.7\% | -1.0\% |
| 511 | Publishing (inc. sofware, exc. Internet) | \$2,597.9 | 86.1\% | 3.3\% | 333 | Machinery | -\$922.9 | -11.9\% | -1.2\% |
| 111-2 | Farms | \$2,368.7 | 75.3\% | 3.0\% | 331 | Primary metals | -\$962.7 | -11.5\% | -1.2\% |
| 334 | Computer \& electronic products | \$1,973.3 | 188.6\% | 2.5\% | 22 | Utilities | -\$1,042.0 | -9.9\% | -1.3\% |
| 311-2 | Food, beverage \& tobacco products | \$1,490.9 | 16.7\% | 1.9\% | 525 | Funds, trusts \& other financial vehicles | -\$1,064.9 | -86.1\% | -1.3\% |
| 486 | Pipeline transportation | \$966.0 | 451.2\% | 1.2\% | 713 | Amusements, gambling \& recreation | -\$1,182.7 | -31.6\% | -1.5\% |
| 624 | Social assistance | \$716.3 | 30.0\% | 0.9\% | 326 | Plastics \& rubber products | -\$1,418.1 | -20.3\% | -1.8\% |
| 92fc, 491 | Federal civilian (inc. Postal Service) | \$649.0 | 6.2\% | 0.8\% | 5411 | Legal srvcs. | -\$1,455.8 | -24.7\% | -1.8\% |
| 523 | Securities, commodity contracts, investments | \$461.2 | 16.8\% | 0.6\% | 722 | Food srvcs. \& drinking places | -\$1,601.1 | -14.7\% | -2.0\% |
| 3364-9 | Other transportation eqpt. | \$433.3 | 8.4\% | 0.5\% | 212 | Mining, exc. oil \& gas | -\$2,125.9 | -65.1\% | -2.7\% |
| 481 | Air transportation | \$419.1 | 32.0\% | 0.5\% | 3361-3 | Motor vehicles, bodies, trailers \& parts | -\$3,288.0 | -25.3\% | -4.1\% |
| 92811 | Federal military | \$416.1 | 11.2\% | 0.5\% | 332 | Fabricated metal products | -\$4,792.3 | -35.8\% | -6.0\% |
| 339 | Miscellaneous mfg. | \$398.4 | 19.8\% | 0.5\% | 92s | State \& local | -\$5,186.9 | -10.0\% | -6.5\% |
| 213 | Support activities for mining | \$371.8 | 344.3\% | 0.5\% | 81 | Other srvcs., exc. government | -\$5,898.2 | -36.3\% | -7.4\% |
| 562 | Waste management \& remediation srvcs. | \$276.5 | 18.6\% | 0.3\% | 23 | Construction | -\$8,610.8 | -31.3\% | -10.8\% |

Notes: * - the sum of the net changes is used as the divisiot to compute the proportional contributions to newt growth because it does no equal the total net change; the two figures are unequal because inflators and deflators varied by industry; bold - the industry is quite concentrated in Ohio ( $>=1.20$ ); italicized - the industry is mildly concentrated in Ohioi ( $>1.00,<1.20$ ); plain face - the industry is not concentrated in Ohio (<1.00).

Abbreviations used: eqpt. - equipment; exc. - excluding; fc - federal civilian; fm - federal military; inc. - including; info. - information; mfg. - manufacturing; p-part; prcsng. - processing; sl - state \& local; srvcs. - services.

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Part 3: The table above lists the 65 most-specific industries comprising Ohio's economy and sorts them in the order of their contributions to the state's real growth from 2000 through 2020. Bold entries show industries quite concentrated in Ohio - i.e. those with a concentration ratio of at least 1.2; italicized entries show industries mildly concentrated here - i.e. those with a concentration ratio between 1 and 1.2; all other industries - those nearly proportional with the nation or relatively sparse - are shown in plain type (as in Appendix Tables A15-A17). In this sense, the table above is a reordered list of the faster vs. slower-growth-or-contracting and concentrated vs. sparse industries seen aggregated in Part 2.

Ohio's economic output grew 15.7 percent from 2000 through 2020 after adjusting for inflation. 40.1 percent of that overall net growth is attributed to the expansion of three major financial activities industries: banking, insurance and real estate (the last of which principally reflects the impact of homeownership). Two major health care industries, ambulatory services and hospitals combined, accounted for another 18.5 percent of the net growth; however, enterprise management made the single largest contribution at 15.3 percent. Other industries made relatively large contributions to the net growth through their extraordinary expansions; examples include oil and gas extraction (production volume expanded more than 1000 percent by implementing new technology) - 12.4 percent, computer systems design and related services - 8.3 percent, and data processing-hosting-etc. (which includes the Internet) - 4.0 percent. More industries also saw rapid growth, but their small initial size limited their absolute contribution to Ohio's net expansion.

While 34 industries expanded and contributed to Ohio's growth, 31 experienced a net contraction of services provided and goods produced. The more-notable goods producing industries were construction, fabricated metal products, and motor vehicle and parts manufacturing. The more-notable services industries were state and local government, and other private sector services. All five contracted more than 4.0 percent.

Caution is warranted in interpreting the changes whether positive or negative. While some changes may indicate longterm structural changes in Ohio's economy, other industries - particularly farming and most durable goods manufacturing industries - are highly cyclical with measured changes affected by the choice of starting and ending points, and a few such as state-and-local government and utilities - are so large that even relatively small changes in output can substantially alter their proportional contribution to the net growth. In all likelihood, the position of industries on the list is affected by varying combinations of the three factors: size, the degree of cyclicality and long-term structural change. The impact of a fourth factor - the unanticipated COVID-19 pandemic - also is evident in the temporary closure of many industries requiring close contact of people and the disruption of supply chains in others.

The Association of Percentage Changes in GDP, 2000-2020
for the U.S. and Ohio


Part 4: The differing mix of industries between Ohio and the nation is a matter of degree and should not be overemphasized. The chart above illustrates the association between changes in industry output - both growth and decline - in Ohio with corresponding national changes for 2000-2020. The dots collectively cover at least 94.0 percent of output from each. ${ }^{20}$ It is evident faster and slower-growing or contracting industries in one tended to be faster and slowergrowing or contracting industries in the other. ${ }^{21}$ (See Appendix Table A25 for specific figures.) Consequently, national forecasts for industries and the economy may be fairly reliable guides for what to expect in Ohio over the long term. ${ }^{22}$

The U.S. BLS (2021) predicts national gross duplicated output (i.e. GDP plus the value of intermediate goods and services) will grow at an average annual rate of 1.8 percent during the 2019-2029 decade (see the table on the following page). The private sector is expected to grow faster than government services: 2.0 vs .0 .7 percent. Within the private sector, the service providers collectively are expected to grow faster than goods producers: 2.2 vs. 1.6 percent. However, this is not true of every sector within the two super clusters. The fastest growing sectors are forecast to be, in descending order: health care/social assistance, mining and information. Other sectors predicted to expand faster than average are wholesale and retail trade, professional/scientific/technical services, enterprise management, administrative-support/ waste-management, arts/entertainment/recreation and accommodation/foods services. So many faster-growing service sectors mean the distribution of economic activity is expected to continue the long-term shift away from goods production.

The concentration or sparsity in Ohio of sectors with different growth rates has mixed implications for the state's potential growth in this decade. On one hand, the concentration of sectors forecast to grow faster than average - principally health -care/social-assistance and secondarily mining - may drive economic growth. Conversely, the sparsity of predicted slower-growth sectors - agriculture-forestry-fishing-hunting, construction and private sector education - are an absence of restraint. On the other hand, the concentration of slower-growth sectors - manufacturing and finance/insurance - as well as the sparsity of more-rapid growth sectors - information and professional/scientific/technical services - bode less rapid growth. Remaining sectors are roughly proportional with the nation and may following accordingly. However, the projected slower population growth rate for Ohio (compare Office of Research of Research, 2018, with U.S. Bureau of the Census, 2014b), due to persistent - if not constant - domestic out-migration, may be the most significant factor pointing to a slower overall long-term economic growth rate when compared with the nation as a whole (Moody's, 2021).

Real economic growth generally and often more-specifically is associated with employment growth. Figures in the table on the following page show longer-term U.S. overall economic growth averaging 1.8 percent per year with the corresponding employment growth averaging 0.4 percent. However, there are exceptions. The U.S. BLS (2021) predicts greater volumes of manufactured and agricultural-forestry-fishing-hunting goods will be produced in the U.S. and more services provided by utilities and wholesale and retail trade in the future, but jobs in these sectors are expected to decrease. In any case, though, real economic growth above and beyond employment growth is due in part to increased productivity. ${ }^{23}$

Forecasted U.S. Economic Annual Growth Rates, 2019-29, and Projected Job Changes in Ohio, 2018-2028

|  |  | Forecast U.S. Annual Growth Rates 2019-29 |  | Projected Job Changes in Ohio 2018-28² |  | Job Rates: |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NAICS Codes | Industry Titles | Gross <br> Duplicated Output ${ }^{1}$ | Jobs ${ }^{1}$ | Annual Growth Rate | Total | U.S. minus Ohio |
| 11-92 | Total | 1.8\% | 0.4\% | 0.2\% | 138,697 | 0.2\% |
| 11-81 | Private industry employment | 2.0\% | 0.4\% | 0.3\% | 149,379 | 0.1\% |
| 11, 21, 23, 31-33 | Private goods-producing employment | 1.6\% | -0.0\% | -0.0\% | -4,181 | 0.0\% |
| 11 | Agriculture, forestry, fishing \& hunting | 1.8\% | -0.2\% | 0.5\% | 4,793 | 0.7\% |
| 21 | Mining | 2.8\% | 1.3\% | 0.6\% | 708 | 0.7\% |
| 23 | Construction | 1.3\% | 0.4\% | 1.0\% | 22,743 | -0.6\% |
| 31-33 | Manufacturing | 1.5\% | -0.4\% | -0.5\% | -32,425 | 0.1\% |
| 32 p \& 33 | Durable goods | 1.5\% | -0.3\% | -0.4\% | -20,920 | 0.1\% |
| 31 \& 32p | Nondurable goods | 1.7\% | -0.4\% | -0.5\% | -11,505 | 0.1\% |
| 22, 42-81 | Private service-providing employment | 2.2\% | 0.5\% | 0.3\% | 153,560 | 0.2\% |
| 22 | Utilities | 1.5\% | -0.8\% | -0.1\% | -176 | -0.7\% |
| 42 | Wholesale trade | 2.6\% | -0.2\% | -0.2\% | -4,262 | 0.0\% |
| 44-45 | Retail trade | 2.4\% | -0.2\% | -0.3\% | -15,981 | 0.1\% |
| 48-49p | Transportation \& warehousing ${ }^{3}$ | 1.6\% | 0.6\% | 0.7\% | 15,828 | -0.1\% |
| 51 | Information | 2.7\% | 0.0\% | -0.7\% | -4,978 | 0.7\% |
| 52 | Finance \& insurance | 1.4\% | 0.1\% | 0.2\% | 5,454 | -0.1\% |
| 53 | Real estate, rental \& leasing | 1.8\% | -0.1\% | 0.3\% | 1,657 | -0.4\% |
| 54 | Professional, scientific \& technical services | 2.3\% | 1.0\% | 0.6\% | 15,261 | 0.4\% |
| 55 | Management of companies \& enterprises | 2.3\% | 0.5\% | 0.5\% | 7,471 | 0.0\% |
| 56 | Administrative support \& waste management | t $2.2 \%$ | 0.4\% | 0.2\% | 6,358 | 0.2\% |
| 61 | Educational services | 1.7\% | 1.2\% | 0.0\% | 2,108 | 1.2\% |
| 62 | Health care \& social assistance | 2.9\% | 1.4\% | 1.1\% | 94,912 | 0.3\% |
| 71 | Arts, entertainment \& recreation | 2.2\% | 0.9\% | 0.4\% | 3,019 | 0.5\% |
| 72 | Accommodation \& food services | 2.1\% | 0.6\% | 0.4\% | 19,176 | 0.2\% |
| 81 | Other services, exc. government | 1.7\% | 0.4\% | -0.1\% | -2,516 | 0.5\% |
| n.a. | Nonagricultural self-employed, etc. ${ }^{4}$ | 0.0\% | -0.4\% | 0.3\% | 10,229 | -0.7\% |
| 92, 491 | Government (inc. U.S. Postal Service) | 0.7\% | 0.1\% | -0.3\% | -10,682 | 0.4\% |

Notes: 1 - gross duplicated output (GDO) includes all new goods and services produced as intermediate goods for further use in production as well as the GDP (the final demand purchased of new goods and services); forecasted GDO growth rates have been adjusted for inflation; some GDO and jobs figures are derived from the U.S. BLS (2021); 2 - some components may not sum to totals due to rounding; 3 - except the U.S. Postal Service; 4 - nonagricultural self-employed and unpaid family workers may be in any non-agricultural private sector industry, but are not included in sector-specific figures above; the exception is agriculture, etc., which includes self-employed and unpaid family workers. Abbreviations: exc. - except; inc. - including; p - part. Sources: ODJFS/LMI (2021) and U.S. BLS (2021).

The latest projections by the Ohio Dept. of Job and Family Services Labor Market Information division (ODJFS/LMI, 2021) predict 138,697 jobs may be added in Ohio from 2018 through 2028, an annual average growth rate of about 0.2 percent. The 149,379 employees added from the private sector offset the 10,682 which may be lost from the government sector. In turn, expected growth in private sector self-employed-and-unpaid-family-workers plus private service-providing employees $(10,229+153,560)$ offsets the forecast net loss of 4,181 jobs among goods-producing employees. Within the two private-sector super clusters, 10 service-providing sectors are expected to gain jobs - led by health care and social assistance; among goods-producers possible gains in construction, agriculture, etc., may be more than offset by losses in manufacturing. Comparing corresponding BLS projections suggest overall, super-sector and most sector jobs growth in Ohio may be equal to or less than comparable national rates, with notable exceptions in construction, transportation and warehousing, real estate/rental/leasing, and self-employment. ${ }^{24}$

Long-term projections are made with little or no consideration of business cycles. On the other hand, near- and mid-term forecasts try to anticipate changes-in or continuations-of current economic trends. Moody's (2021) predicts Ohio's economy, now in "recovery" mode, will grow 4.5 percent in 2021 after adjusting for inflation, essentially returning to its 2019 total by the end of the year. It further predicts 5.2 percent real growth in 2022, with growth thereafter tapering off to pre-COVID-19 rates between 2.8 and 1.8 percent. Resurgent consumer confidence, expanding health care and revitalized manufacturing sectors are expected to lead the recovery. It also predicts 107,000 jobs will be added in 2021 followed by 159,000 in 2022 - annual growth rates of 2.1 and 3.0 percent. However, a complete recovery of employment to the pre-COVID-19 level of 5.59 million is not expected until late in 2023 or sometime in 2024.

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## APPENDICES

## TERMINOLOGY

The Gross Domestic Product (GDP) of Ohio is the final value of goods produced and services provided by capital and labor located in the state. Put another way, a state's total GDP is the sum of the value-added - revenue less the costs of goods and services purchased - for all industries therein. It is actually measured using data such as employees' compensation, taxes on production and imports less subsidies, and gross operating surplus. It is nearly the state equivalent of GDP for the nation, differing from the latter by excluding contributions of overseas federal personnel as well as other methodological considerations. Data are gathered from at least 19 different federal agencies. (Platt and Mead, 2017: 2).

Beginning in 1997, statistics on the nation's industries have been organized under the North American Industrial Classification System (NAICS). Establishments producing goods or providing services sufficiently alike are classified in the same industry. A six-digit NAICS code is assigned to each industry. Closely related industries formed an industry group. The first four digits of the code indicate the group to which the industries belong. (The first five digits occasionally indicate a sub-group.) Industry groups with common elements and shared characteristics comprise a major industry or sub-sector. The first three digits of the code indicate a major industry, and the first two digits indicate the sector (Office of Management and Budget, 2007). The U.S. BEA usually publishes GDP-by-state figures down to the major industry level. However, figures are available only at the sector level in some instances, while in a few others, they are available for industry groups or a combination of industry groups within a major industry.

The NAICS uses guidelines that may be new or different from the 1987 Standard Industrial Classification (SIC) system that it replaced. Occasionally, this has meant that establishments classified in the same industry under the SIC system were classified in different industries - even different groups, major industries, and sectors - under the NAICS. Consequently, the change from the SIC system to the NAICS represents an insurmountable discontinuity in charting more or less specific changes in Ohio's economy before 1997. This report is therefore limited to the years beginning with 1997.

DETAILED TABLES

Table A1a: Ohio's GDP by Sector*, Annualized Third Quarter 2021 (in millions of current dollars, except percentages and ratios)

|  |  | Ohio (Annual Rate) |  | U.S. (Annualized) |  | Ohio as a Ohio::U.S. <br> Percentage Concentraof the U.S. tion Ratio |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2012 <br> NAICS Codes | Sector Titles | (in millions) | Percent Distribution | (in millions) | Percent Distribution |  |  |
| 11-92 | Total | \$741,400 | 100.00\% | \$23,202,344 | 100.00\% | 3.20\% | 1.00 |
| 11-81 | Private industries | \$662,066 | 89.30\% | \$20,396,385 | 87.91\% | 3.25\% | 1.02 |
| 11, 21, 23-33 | Private goods producers | \$158,587 | 21.39\% | \$4,073,102 | 17.55\% | 3.89\% | 1.22 |
| 11 | Agriculture, forestry, fishing \& hunting | \$6,844 | 0.92\% | \$261,709 | 1.13\% | 2.62\% | 0.82 |
| 21 | Mining | \$6,807 | 0.92\% | \$289,426 | 1.25\% | 2.35\% | 0.74 |
| 23 | Construction | \$27,133 | 3.66\% | \$951,124 | 4.10\% | 2.85\% | 0.89 |
| 31-33 | Manufacturing | \$117,803 | 15.89\% | \$2,570,843 | 11.08\% | 4.58\% | 1.43 |
| 32 p \& 33 | Durable goods | \$61,353 | 8.28\% | \$1,380,676 | 5.95\% | 4.44\% | 1.39 |
| 31 \& 32p | Nondurable goods | \$56,450 | 7.61\% | \$1,190,167 | 5.13\% | 4.74\% | 1.48 |
| 22, 42-81 ${ }^{1}$ | Private service providers ${ }^{1}$ | \$503,480 | 67.91\% | \$16,323,283 | 70.35\% | 3.08\% | 0.97 |
| 22 | Utilities | \$12,065 | 1.63\% | \$379,891 | 1.64\% | 3.18\% | 0.99 |
| 42 | Wholesale trade | \$45,708 | 6.17\% | \$1,390,616 | 5.99\% | 3.29\% | 1.03 |
| 44-45 | Retail trade | \$45,511 | 6.14\% | \$1,379,062 | 5.94\% | 3.30\% | 1.03 |
| $48-49{ }^{1}$ | Transportation \& warehousing ${ }^{1}$ | \$25,760 | 3.47\% | \$658,303 | 2.84\% | 3.91\% | 1.22 |
| 51 | Information | \$18,345 | 2.47\% | \$1,305,495 | 5.63\% | 1.41\% | 0.44 |
| 52 | Finance \& insurance | \$81,392 | 10.98\% | \$1,965,715 | 8.47\% | 4.14\% | 1.30 |
| 53 | Real estate, rental \& leasing | \$80,545 | 10.86\% | \$2,954,987 | 12.74\% | 2.73\% | 0.85 |
| 54 | Professional, scientific \& technical services | \$38,360 | 5.17\% | \$1,798,708 | 7.75\% | 2.13\% | 0.67 |
| 55 | Management of companies \& enterprises | \$22,931 | 3.09\% | \$438,275 | 1.89\% | 5.23\% | 1.64 |
| 56 | Administrative \& waste services | \$23,613 | 3.18\% | \$768,093 | 3.31\% | 3.07\% | 0.96 |
| 61 | Educational services | \$5,767 | 0.78\% | \$261,445 | 1.13\% | 2.21\% | 0.69 |
| 62 | Health care \& social assistance | \$63,152 | 8.52\% | \$1,680,733 | 7.24\% | 3.76\% | 1.18 |
| 71 | Arts, entertainment \& recreation | \$6,949 | 0.94\% | \$204,017 | 0.88\% | 3.41\% | 1.07 |
| 72 | Accommodation \& food services | \$18,970 | 2.56\% | \$683,038 | 2.94\% | 2.78\% | 0.87 |
| 81 | Other services, exc. government | \$14,413 | 1.94\% | \$454,905 | 1.96\% | 3.17\% | 0.99 |
| 92 | Government ${ }^{\text {² }}$ | \$79,333 | 10.70\% | \$2,805,960 | 12.09\% | 2.83\% | 0.88 |

Notes: * - sector figures are preliminary, and may not sum to totals due to rounding; major industry data are not available; exc. - except; p-part;
1 - excludes the U.S. Postal Service; 2 - at the federal level, includes the U.S. Postal Service and overseas activities.
Source: U.S. BEA (2022).
Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 2/22).

| 2012 <br> NAICS Codes | Industry Titles | Area | 2019: Q4 | 2020: Q1 | 2020: Q2 | 2020: Q3 | 2020: Q4 | 2021: Q1 | 2021: Q2 | 2021: Q3* | Percent Change |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & {f6bd0a8d8-ff19-4c6d-85e0-d9ac2d77f01a}20/Q2- } \\ & \text {-21/Q3* } \end{aligned}$ | $\begin{gathered} 19 / \mathrm{Q} 4- \\ 21 / \mathrm{QB}^{*} \end{gathered}$ |  |
| 11-92 | Total ${ }^{\text {I }}$ | U.S. | \$21,694.5 | \$21,481.4 | \$19,477.4 | \$21,138.6 | \$21,477.6 | \$22,038.2 | \$22,741.0 | \$23,202.3 | -10.2\% | 19.1\% | 7.0\% |
|  |  | Ohio | \$702.1 | \$696.3 | \$627.3 | \$688.8 | \$697.9 | \$711.0 | \$728.4 | \$741.4 | -10.7\% | 18.2\% | 5.6\% |
| 11-81 | Private sector ${ }^{\text {F }}$ | U.S. | \$19,033.4 | \$18,784.2 | \$16,846.5 | \$18,469.7 | \$18,792.2 | \$19,332.8 | \$19,998.2 | \$20,396.4 | -11.5\% | 21.1\% | 7.2\% |
|  |  | Ohio | \$626.3 | \$619.6 | \$553.0 | \$613.1 | \$621.8 | \$634.4 | \$650.9 | \$662.1 | -11.7\% | 19.7\% | 5.7\% |
| 11, 21, 23-33 | Goods producers\# ${ }^{\text {\# }}$ | U.S. | \$3,759.6 | \$3,693.6 | \$3,169.9 | \$3,574.5 | \$3,659.8 | \$3,842.8 | \$3,995.9 | \$4,073.1 | -15.7\% | 28.5\% | 8.3\% |
|  |  | Ohio | \$146.0 | \$146.8 | \$122.2 | \$143.3 | \$145.1 | \$152.1 | \$156.5 | \$158.6 | -16.3\% | 29.8\% | 8.6\% |
| 11 | Agriculture, forestry, | U.S. | \$168.4 | \$183.8 | \$140.2 | \$172.9 | \$201.2 | \$214.4 | \$254.7 | \$261.7 | -16.7\% | 86.7\% | 55.4\% |
|  | fishing \& hunting | Ohio | \$3.0 | \$4.6 | \$3.1 | \$3.7 | \$4.2 | \$5.2 | \$6.6 | \$6.8 | 4.3\% | 119.7\% | 129.1\% |
| 21 | Mining | U.S. | \$286.9 | \$236.6 | \$126.6 | \$170.7 | \$194.5 | \$243.7 | \$265.5 | \$289.4 | -55.9\% | 128.6\% | 0.9\% |
|  |  | Ohio | \$5.2 | \$4.8 | \$2.8 | \$4.0 | \$4.7 | \$6.0 | \$6.4 | \$6.8 | -45.5\% | 141.5\% | 31.5\% |
| 23 | Construction | U.S. | \$914.8 | \$914.3 | \$851.6 | \$898.2 | \$919.3 | \$941.2 | \$951.0 | \$951.1 | -6.9\% | 11.7\% | 4.0\% |
|  |  | Ohio | \$27.0 | \$27.1 | \$24.5 | \$26.0 | \$26.7 | \$27.9 | \$27.0 | \$27.1 | -9.1\% | 10.6\% | 0.6\% |
| 31-33 | Manufacturing ${ }^{\text {\# }}$ | U.S. | \$2,389.5 | \$2,358.8 | \$2,051.5 | \$2,332.7 | \$2,344.8 | \$2,443.5 | \$2,524.7 | \$2,570.8 | -14.1\% | 25.3\% | 7.6\% |
|  |  | Ohio | \$110.9 | \$110.4 | \$91.8 | \$109.6 | \$109.5 | \$113.0 | \$116.5 | \$117.8 | -17.2\% | 28.4\% | 6.3\% |
| 32p \& 33 | Durable goods | U.S. | \$1,329.1 | \$1,308.0 | \$1,134.5 | \$1,314.0 | \$1,318.9 | \$1,346.9 | \$1,375.2 | \$1,380.7 | -14.6\% | 21.7\% | 3.9\% |
|  |  | Ohio | \$62.3 | \$61.4 | \$49.1 | \$59.9 | \$60.0 | \$59.7 | \$61.4 | \$61.4 | -21.3\% | 25.0\% | -1.6\% |
| 31 \& 32p | Nondurable goods | U.S. | \$1,060.5 | \$1,050.8 | \$917.0 | \$1,018.8 | \$1,025.9 | \$1,096.7 | \$1,149.5 | \$1,190.2 | -13.5\% | 29.8\% | 12.2\% |
|  |  | Ohio | \$48.5 | \$49.0 | \$42.7 | \$49.7 | \$49.5 | \$53.3 | \$55.1 | \$56.4 | -12.0\% | 32.3\% | 16.3\% |
| 22, 42-81 | Service providers ${ }^{1 \text { 17 }}$ | U.S. | \$15,273.8 | \$15,090.6 | \$13,676.6 | \$14,895.2 | \$15,132.4 | \$15,490.0 | \$16,002.4 | \$16,323.3 | -10.5\% | 19.4\% | 6.9\% |
|  |  | Ohio | \$480.3 | \$472.8 | \$430.8 | \$469.8 | \$476.7 | \$482.3 | \$494.4 | \$503.5 | -10.3\% | 16.9\% | 4.8\% |
| 22 | Utilities | U.S. | \$341.4 | \$328.2 | \$337.3 | \$353.4 | \$348.0 | \$374.6 | \$366.4 | \$379.9 | -1.2\% | 12.6\% | 11.3\% |
|  |  | Ohio | \$11.0 | \$10.5 | \$10.8 | \$11.1 | \$11.3 | \$11.4 | \$11.6 | \$12.1 | -1.5\% | 11.5\% | 9.8\% |
| 42 | Wholesale trade | U.S. | \$1,286.1 | \$1,280.9 | \$1,136.5 | \$1,275.8 | \$1,279.9 | \$1,319.4 | \$1,377.3 | \$1,390.6 | -11.6\% | 22.4\% | 8.1\% |
|  |  | Ohio | \$43.8 | \$43.0 | \$38.3 | \$42.8 | \$42.9 | \$43.8 | \$45.5 | \$45.7 | -12.7\% | 19.4\% | 4.2\% |
| 44-45 | Retail trade | U.S. | \$1,183.9 | \$1,185.6 | \$1,101.6 | \$1,262.0 | \$1,259.6 | \$1,331.5 | \$1,397.5 | \$1,379.1 | -7.0\% | 25.2\% | 16.5\% |
|  |  | Ohio | \$39.9 | \$39.8 | \$37.7 | \$43.0 | \$42.2 | \$45.4 | \$46.1 | \$45.5 | -5.4\% | 20.7\% | 14.2\% |
| 48-49p | Transportation \& | U.S. | \$689.9 | \$660.5 | \$499.2 | \$555.0 | \$573.4 | \$594.2 | \$619.8 | \$658.3 | -27.6\% | 31.9\% | -4.6\% |
|  | warehousing ${ }^{1}$ | Ohio | \$23.7 | \$23.8 | \$19.1 | \$22.4 | \$23.1 | \$24.3 | \$24.1 | \$25.8 | -19.3\% | 34.6\% | 8.6\% |
| 51 | Information | U.S. | \$1,159.2 | \$1,158.9 | \$1,120.6 | \$1,186.6 | \$1,205.5 | \$1,240.0 | \$1,296.6 | \$1,305.5 | -3.3\% | 16.5\% | 12.6\% |
|  |  | Ohio | \$17.7 | \$17.3 | \$16.7 | \$17.4 | \$17.1 | \$17.2 | \$18.2 | \$18.3 | -5.9\% | 10.0\% | 3.5\% |
| 52 | Finance \& insurance | U.S. | \$1,730.8 | \$1,715.1 | \$1,751.1 | \$1,802.9 | \$1,881.9 | \$1,892.6 | \$1,936.3 | \$1,965.7 | 1.2\% | 12.3\% | 13.6\% |
|  |  | Ohio | \$75.8 | \$74.1 | \$74.8 | \$76.3 | \$80.6 | \$76.9 | \$80.2 | \$81.4 | -1.3\% | 8.8\% | 7.3\% |
| 53 | Real estate, rental | U.S. | \$2,812.5 | \$2,827.7 | \$2,740.6 | \$2,824.3 | \$2,824.8 | \$2,857.3 | \$2,908.6 | \$2,955.0 | -2.6\% | 7.8\% | 5.1\% |
|  | \& leasing | Ohio | \$79.3 | \$78.3 | \$76.0 | \$77.5 | \$77.4 | \$78.2 | \$79.5 | \$80.5 | -4.2\% | 6.0\% | 1.6\% |
| 54 | Professional, scientific | U.S. | \$1,672.6 | \$1,669.3 | \$1,548.3 | \$1,632.1 | \$1,661.3 | \$1,702.9 | \$1,754.4 | \$1,798.7 | -7.4\% | 16.2\% | 7.5\% |
|  | \& technical | Ohio | \$37.5 | \$36.9 | \$33.8 | \$35.6 | \$35.6 | \$36.8 | \$37.5 | \$38.4 | -9.8\% | 13.5\% | 2.4\% |
| 55 | Mgt. of companies | U.S. | \$413.5 | \$412.0 | \$399.1 | \$403.7 | \$427.0 | \$431.1 | \$431.7 | \$438.3 | -3.5\% | 9.8\% | 6.0\% |
|  | \& enterprises | Ohio | \$22.3 | \$23.0 | \$21.5 | \$22.7 | \$24.1 | \$23.1 | \$22.7 | \$22.9 | -3.3\% | 6.6\% | 3.1\% |
| 56 | Administrative support | U.S. | \$685.9 | \$676.7 | \$588.9 | \$656.2 | \$684.5 | \$720.3 | \$739.0 | \$768.1 | -14.1\% | 30.4\% | 12.0\% |
|  | \& waste mgt. | Ohio | \$21.2 | \$20.6 | \$17.8 | \$20.3 | \$21.5 | \$22.9 | \$22.7 | \$23.6 | -16.0\% | 32.9\% | 11.6\% |
| 61 | Education | U.S. | \$275.8 | \$271.9 | \$240.1 | \$250.7 | \$242.5 | \$247.7 | \$254.3 | \$261.4 | -12.9\% | 8.9\% | -5.2\% |
|  |  | Ohio | \$6.3 | \$6.2 | \$5.4 | \$5.7 | \$5.5 | \$5.5 | \$5.7 | \$5.8 | -14.0\% | 6.7\% | -8.2\% |
| 62 | Health care \& | U.S. | \$1,623.2 | \$1,598.9 | \$1,371.6 | \$1,591.9 | \$1,626.8 | \$1,636.5 | \$1,656.7 | \$1,680.7 | -15.5\% | 22.5\% | 3.5\% |
|  | social assistance | Ohio | \$61.1 | \$60.4 | \$52.8 | \$60.3 | \$61.1 | \$60.6 | \$62.3 | \$63.2 | -13.6\% | 19.6\% | 3.3\% |
| 71 | Arts, entertainment | U.S. | \$251.2 | \$228.9 | \$107.8 | \$150.8 | \$166.0 | \$172.9 | \$185.4 | \$204.0 | -57.1\% | 89.2\% | -18.8\% |
|  | \& recreation | Ohio | \$7.6 | \$7.8 | \$3.4 | \$5.6 | \$5.9 | \$6.4 | \$6.5 | \$6.9 | -54.9\% | 102.9\% | -8.4\% |
| 72 | Accommodation | U.S. | \$683.1 | \$620.3 | \$365.9 | \$526.5 | \$522.2 | \$543.2 | \$635.1 | \$683.0 | -46.4\% | 86.7\% | 0.0\% |
|  | \& food services | Ohio | \$18.4 | \$16.4 | \$10.9 | \$15.5 | \$14.8 | \$16.1 | \$17.7 | \$19.0 | -40.4\% | 73.4\% | 3.3\% |
| 81 | Other services | U.S. | \$464.9 | \$455.5 | \$368.1 | \$423.3 | \$429.0 | \$425.8 | \$443.2 | \$454.9 | -20.8\% | 23.6\% | -2.1\% |
|  | (exc. Government) | Ohio | \$14.8 | \$14.6 | \$11.7 | \$13.7 | \$13.7 | \$13.6 | \$14.1 | \$14.4 | -20.6\% | 22.7\% | -2.6\% |
| 92 | Government ${ }^{2}$ | U.S. | \$2,661.1 | \$2,697.2 | \$2,630.9 | \$2,668.9 | \$2,685.4 | \$2,705.4 | \$2,742.7 | \$2,806.0 | -1.1\% | 6.7\% | 5.4\% |
|  |  | Ohio | \$75.8 | \$76.7 | \$74.2 | \$75.7 | \$76.0 | \$76.6 | \$77.5 | \$79.3 | -2.0\% | 6.9\% | 4.7\% |

Notes and abbreviations: * - initial; earlier figures may be revised; \# - components may not sum to totals due to rounding; 1 - excludes U.S. Postal Service (NAICS 491); 2 - includes U.S. Postal Postal Service; exc. - except; p - part; Q-quarter;
Source: U.S. BEA (2022). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 2/22).

Table A1c: Nonfarm Employment Changes in Ohio During 2020-2021 (in thousands, not seasonally adjusted)

|  |  | 2020 - Selected Months |  |  |  |  |  | 2021 - Selected Months |  |  |  |  |  | $2 / 20->4 / 20$ <br> Changes |  | 4/20->12/21 Changes* |  | $2 / 20->12 / 21$ <br> Changes* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NAICS Codes | Sector \& Industry Titles | Feb | Apr | Jun | Aug | Oct | Dec | Feb | Apr | Jun | Aug | Oct | Dec* | Number P | Percent | Number | Percent | Number | Percent |
| 1133... 92 | Total Nonfarm | 5,532.3 | 4,721.0 | 5,164.6 5 | 5,243.6 | 5,321.1 | 5,302.0 | 5,219.9 5 | 5,295.6 | 5,368.2 | 5,374.9 | 5,424.3 | 5,436.8 | -811.3 | -14.7\% | 715.8 | 15.2\% | -95.5 | -1.7\% |
| 1133... 81 | Total Private | 4,729.7 | 3,953.3 | 4,436.9 | 4,519.2 | 4,557.8 | 4,547.1 | 4,467.8 | 4,534.8 | 4,628.9 | 4,647.2 | 4,655.4 | 4,671.1 | -776.4 | -16.4\% | 717.8 | 18.2\% | -58.6 | -1.2\% |
| 1133...339 | Private Goods Producing | 913.4 | 782.0 | 884.9 | 890.0 | 896.0 | 883.6 | 865.6 | 886.8 | 908.7 | 911.6 | 906.5 | 901.6 | -131.4 | -14.4\% | 119.6 | 15.3\% | -11.8 | -1.3\% |
| 21+1133 | Mining \& Logging | 10.2 | 9.6 | 9.3 | 9.0 | 8.7 | 9.0 | 8.5 | 8.8 | 8.7 | 8.9 | 8.7 | 8.0 | -0.6 | -5.9\% | -1.6 | -16.7\% | -2.2 | -21.6\% |
| 23 | Construction | 210.8 | 191.4 | 225.8 | 230.1 | 230.1 | 214.9 | 199.8 | 222.2 | 236.1 | 239.5 | 239.1 | 231.9 | -19.4 | -9.2\% | 40.5 | 21.2\% | 21.1 | 10.0\% |
| 236 | Construction of Buildings | 48.9 | 42.5 | 48.3 | 48.7 | 49.4 | 47.3 | 46.3 | 50.3 | 52.4 | 54.6 | 54.3 | 53.0 | -6.4 | -13.1\% | 10.5 | 24.7\% | 4.1 | 8.4\% |
| 2362 | Nonresidential Building Construction | 28.2 | 24.6 | 27.3 | 27.2 | 27.8 | 26.7 | 25.5 | 27.3 | 29.0 | 29.3 | 29.4 | 28.6 | -3.6 | -12.8\% | 4.0 | 16.3\% | 0.4 | 1.4\% |
| 236 R | Remaining Building Construction (by subtraction) | 20.7 | 17.9 | 21.0 | 21.5 | 21.6 | 20.6 | 20.8 | 23.0 | 23.4 | 25.3 | 24.9 | 24.4 | -2.8 | -13.5\% | 6.5 | 36.3\% | 3.7 | 17.9\% |
| 237 | Heavy \& Civil Engineering Construction | 24.4 | 25.5 | 32.1 | 33.1 | 30.0 | 22.7 | 19.3 | 25.7 | 30.1 | 31.3 | 31.6 | 28.6 | 1.1 | 4.5\% | 3.1 | 12.2\% | 4.2 | 17.2\% |
| 238 | Specialty Trade Contractors | 137.5 | 123.4 | 145.4 | 148.3 | 150.7 | 144.9 | 134.2 | 146.2 | 153.6 | 153.6 | 153.2 | 150.3 | -14.1 | -10.3\% | 26.9 | 21.8\% | 12.8 | 9.3\% |
| 31->33 | Manufacturing | 692.4 | 581.0 | 649.8 | 650.9 | 657.2 | 659.7 | 657.3 | 655.8 | 663.9 | 663.2 | 658.7 | 661.7 | -111.4 | -16.1\% | 80.7 | 13.9\% | -30.7 | -4.4\% |
| 321+327->339 | Durable Goods | 465.3 | 378.5 | 431.9 | 431.9 | 435.6 | 436.3 | 431.9 | 432.3 | 441.0 | 439.4 | 434.1 | 436.8 | -86.8 | -18.7\% | 58.3 | 15.4\% | -28.5 | -6.1\% |
| 327 | Nonmetallic Mineral Product Mfg. | 26.9 | 22.5 | 25.1 | 25.8 | 25.6 | 25.3 | 24.3 | 25.0 | 25.4 | 25.6 | 25.4 | 25.5 | -4.4 | -16.4\% | 3.0 | 13.3\% | -1.4 | -5.2\% |
| 331 | Primary Metals Mfg. | 37.1 | 33.1 | 33.6 | 33.2 | 33.8 | 34.2 | 33.8 | 33.8 | 33.5 | 32.9 | 32.0 | 32.2 | -4.0 | -10.8\% | -0.9 | -2.7\% | -4.9 |  |
| 332 | Fabricated Metal Products Mfg. | 98.3 | 87.8 | 91.1 | 90.5 | 91.6 | 93.3 | 92.0 | 93.5 | 95.8 | 96.8 | 95.9 | 97.4 | -10.5 | -10.7\% | 9.6 | 10.9\% | -0.9 | -0.9\% |
| 3327 | Machine Shops; Turned Product; \& Screw, Nut \& Bolt Mfg. | 25.0 | 22.3 | 23.3 | 22.8 | 23.1 | 23.1 | 22.0 | 22.4 | 22.9 | 23.3 | 23.7 | 24.3 | -2.7 | -10.8\% | 2.0 | 9.0\% | -0.7 | -2.8\% |
| 332 R | Remaining Fabricated Metal Products Mfg. (by subtraction) | 73.3 | 65.5 | 67.8 | 67.7 | 68.5 | 70.2 | 70.0 | 71.1 | 72.9 | 73.5 | 72.2 | 73.1 | -7.8 | -10.6\% | 7.6 | 11.6\% | -0.2 | -0.3\% |
| 333 | Machinery Mfg. | 78.5 | 72.1 | 73.4 | 73.1 | 74.6 | 72.2 | 72.9 | 73.8 | 75.1 | 73.7 | 73.2 | 72.9 | -6.4 | -8.2\% | 0.8 | 1.1\% | -5.6 | -7.1\% |
| 3335 | Metalworking Machinery Mfg. | 22.0 | 19.9 | 20.4 | 20.3 | 21.1 | 20.5 | 20.6 | 20.9 | 21.1 | 20.8 | 20.7 | 20.8 | -2.1 | -9.5\% | 0.9 | 4.5\% | -1.2 | -5.5\% |
| 333R | Remaining Machinery Mfg. (by subtraction) | 56.5 | 52.2 | 53.0 | 52.8 | 53.5 | 51.7 | 52.3 | 52.9 | 54.0 | 52.9 | 52.5 | 52.1 | -4.3 | -7.6\% | -0.1 | -0.2\% | -4.4 | -7.8\% |
| 334 | Computer \& Electronic Products Mfg. | 21.2 | 20.2 | 20.5 | 20.5 | 20.6 | 20.6 | 20.4 | 20.5 | 21.1 | 20.7 | 20.5 | 20.4 | -1.0 | -4.7\% | 0.2 | 1.0\% | -0.8 |  |
| 335 | Electrical Eqpt., Appliances \& Components Mfg. | 25.9 | 24.4 | 25.4 | 25.0 | 25.3 | 24.8 | 24.2 | 24.3 | 24.4 | 24.2 | 24.2 | 24.1 | -1.5 | -5.8\% | -0.3 | -1.2\% | -1.8 | -6.9\% |
| 3352 | Household Appliances Mfg. | 9.5 | 9.3 | 9.6 | 9.6 | 9.9 | 9.9 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | -0.2 | -2.1\% | 0.7 | 7.5\% | 0.5 | 5.3\% |
| 335R | Remaining Electrical Eqpt. \& Components Mfg. (by subtraction) | 16.4 | 15.1 | 15.8 | 15.4 | 15.4 | 14.9 | 14.2 | 14.3 | 14.4 | 14.2 | 14.2 | 14.1 | -1.3 | -7.9\% | -1.0 | -6.6\% | -2.3 | -14.0\% |
| 336 | Transportation Eqpt. Mfg. | 127.2 | 77.6 | 115.2 | 115.6 | 116.4 | 119.6 | 115.1 | 112.6 | 114.1 | 116.0 | 114.7 | 115.7 | -49.6 | -39.0\% | 38.1 | 49.1\% | -11.5 | -9.0\% |
| 3361 | Motor Vehicle Assembly | 21.4 | 15.4 | 21.1 | 21.3 | 22.0 | 23.7 | 22.8 | 22.4 | 22.9 | 22.2 | 21.7 | 22.3 | -6.0 | -28.0\% | 6.9 | 44.8\% | 0.9 | 4.2\% |
| 3363 | Motor Vehicle Parts Mfg. | 74.7 | 36.1 | 66.5 | 67.6 | 68.2 | 69.4 | 67.8 | 66.2 | 66.4 | 65.6 | 64.8 | 64.1 | -38.6 | -51.7\% | 28.0 | 77.6\% | -10.6 | -14.2\% |
| 3364 | Aerospace Products \& Parts Mfg. | 20.2 | 19.4 | 17.8 | 16.7 | 16.4 | 16.4 | 15.8 | 15.0 | 14.6 | 14.4 | 14.4 | 14.2 | -0.8 | -4.0\% | -5.2 | -26.8\% | -6.0 | -29.7\% |
| 336 R | Remaining Transportation Eqpt. Mfg. (by subtraction) | 10.9 | 6.7 | 9.8 | 10.0 | 9.8 | 10.1 | 8.7 | 9.0 | 10.2 | 13.8 | 13.8 | 15.1 | -4.2 | -38.5\% | 8.4 | 125.4\% | 4.2 | 38.5\% |
| 337 | Furniture \& Related Products Mfg. | 15.5 | 11.7 | 14.6 | 14.7 | 14.8 | 14.7 | 14.6 | 14.1 | 14.7 | 14.2 | 13.9 | 14.3 | -3.8 | -24.5\% | 2.6 | 22.2\% | -1.2 |  |
| 32pR, 33R | Remaining Durable Goods Mfg. (by subtraction) | 34.7 | 29.1 | 33.0 | 33.5 | 32.9 | 31.6 | 34.6 | 34.7 | 36.9 | 35.3 | 34.3 | 34.3 | -5.6 | -16.1\% | 5.2 | 17.9\% | -0.4 | -1.2\% |
| 311->316+322->326 | Non-Durable Goods | 227.1 | 202.5 | 217.9 | 219.0 | 221.6 | 223.4 | 225.4 | 223.5 | 222.9 | 223.8 | 224.6 | 224.9 | -24.6 | -10.8\% | 22.4 | 11.1\% | -2.2 | -1.0\% |
| 311 | Food Mfg. | 59.7 | 56.8 | 59.1 | 59.0 | 59.8 | 60.0 | 59.4 | 59.0 | 59.8 | 59.8 | 59.7 | 59.8 | -2.9 | -4.9\% | 3.0 | 5.3\% | 0.1 | 0.2\% |
| 323 | Printing \& Related Support Activities | 20.6 | 16.0 | 17.9 | 18.0 | 18.4 | 18.6 | 18.1 | 18.2 | 18.1 | 18.3 | 18.3 | 18.3 | -4.6 | -22.3\% | 2.3 | 14.4\% | -2.3 | -11.2\% |
| 325 | Chemicals Mfg. | 46.4 | 45.2 | 45.3 | 45.7 | 45.6 | 46.4 | 46.8 | 46.7 | 47.1 | 47.3 | 47.1 | 47.5 | -1.2 | -2.6\% | 2.3 | 5.1\% | 1.1 | 2.4\% |
| 326 | Plastic \& Rubber Products Mfg. | 57.8 | 46.6 | 54.2 | 54.6 | 55.0 | 55.5 | 55.5 | 55.1 | 55.1 | 54.8 | 54.5 | 54.6 | -11.2 | -19.4\% | 8.0 | 17.2\% | -3.2 | -5.5\% |
| 3261 | Plastic Product Mfg. | 44.4 | 36.8 | 42.1 | 42.3 | 42.7 | 43.2 | 43.3 | 43.0 | 43.1 | 43.1 | 42.9 | 43.0 | -7.6 | -17.1\% | 6.2 | 16.8\% | -1.4 | -3.2\% |
| 3262 | Rubber Product Mfg. | 13.4 | 9.8 | 12.1 | 12.3 | 12.3 | 12.3 | 12.2 | 12.1 | 12.0 | 11.7 | 11.6 | 11.6 | -3.6 | -26.9\% | 1.8 | 18.4\% | -1.8 | -13.4\% |
| 31R, 32pR | Remaining Non-Durable Goods Mfg. (by subtraction) | 42.6 | 37.9 | 41.4 | 41.7 | 42.8 | 42.9 | 45.6 | 44.5 | 42.8 | 43.6 | 45.0 | 44.7 | -4.7 | -11.0\% | 6.8 | 17.9\% | 2.1 | 4.9\% |
| 22+42->81 | Private Service Providing | 3,816.3 | 3,171.3 | 3,552.0 | 3,629.2 | 3,661.8 | 3,663.5 | 3,602.2 | 3,648.0 | 3,720.2 | 3,735.6 | 3,748.9 | 3,769.5 | -645.0 | -16.9\% | 598.2 | 18.9\% | -46.8 | -1.2\% |
| 22 | Utilities | 18.9 | 18.5 | 18.5 | 18.3 | 18.3 | 18.2 | 18.0 | 18.3 | 18.1 | 17.9 | 17.7 | 17.6 | -0.4 | -2.1\% | -0.9 | -4.9\% | -1.3 | -6.9\% |
| 42 | Wholesale Trade | 233.9 | 215.8 | 223.1 | 224.0 | 224.0 | 226.7 | 225.2 | 224.7 | 224.2 | 225.7 | 227.2 | 227.2 | -18.1 | -7.7\% | 11.4 | 5.3\% | -6.7 | -2.9\% |
| 423 | Merchant Wholesalers, Durable Goods | 141.3 | 129.2 | 133.8 | 134.0 | 134.8 | 136.1 | 137.0 | 136.2 | 135.1 | 138.0 | 140.0 | 141.2 | -12.1 | -8.6\% | 12.0 | 9.3\% | -0.1 | -0.1\% |
| 4234 | Professional \& Commercial Eqpt. \& Supplies Merchant Wholesalers | 29.5 | 27.9 | 28.1 | 28.3 | 28.1 | 28.3 | 28.5 | 28.7 | 28.6 | 28.9 | 28.8 | 28.9 | -1.6 | -5.4\% | 1.0 | 3.6\% | -0.6 |  |
| 4238 | Machinery, Eqpt. \& Supplies Merchant Wholesalers | 35.5 | 33.5 | 34.0 | 34.0 | 33.5 | 33.6 | 34.0 | 33.2 | 33.4 | 34.4 | 34.4 | 34.5 | -2.0 | -5.6\% | 1.0 | 3.0\% | -1.0 | -2.8\% |
| 423 R | Remaining Merchant Wholesalers, Durable Goods (by subtraction) | 76.3 | 67.8 | 71.7 | 71.7 | 73.2 | 74.2 | 74.5 | 74.3 | 73.1 | 74.7 | 76.8 | 77.8 | -8.5 | -11.1\% | 10.0 | 14.7\% | 1.5 | 2.0\% |
| 424 | Merchant Wholesalers, Nondurable Goods | 75.2 | 70.8 | 73.2 | 73.2 | 72.4 | 73.3 | 72.5 | 72.9 | 73.8 | 73.6 | 73.6 | 73.1 | -4.4 | -5.9\% | 2.3 | 3.2\% | -2.1 | -2.8\% |
| 425 | Wholesale Electronic Markets, Agents \& Brokers (by subtraction) | 17.4 | 15.8 | 16.1 | 16.8 | 16.8 | 17.3 | 15.7 | 15.6 | 15.3 | 14.1 | 13.6 | 12.9 | -1.6 | -9.2\% | -2.9 | -18.4\% | -4.5 | -25.9\% |
| $44 \rightarrow 45$ | Retail Trade | 542.1 | 454.5 | 524.7 | 534.7 | 542.9 | 561.9 | 535.5 | 540.7 | 551.5 | 545.7 | 555.5 | 577.5 | -87.6 | -16.2\% | 123.0 | 27.1\% | 35.4 | 6.5\% |
| 441 | Motor Vehicle \& Parts Dealers | 79.2 | 61.7 | 72.3 | 74.7 | 74.7 | 76.8 | 77.5 | 78.3 | 79.0 | 79.1 | 79.0 | 79.4 | -17.5 | -22.1\% | 17.7 | 28.7\% | 0.2 | 0.3\% |
| 4411 | Automobile Dealers | 50.1 | 37.0 | 45.0 | 46.5 | 46.7 | 46.9 | 46.9 | 47.0 | 47.6 | 47.8 | 47.1 | 47.9 | -13.1 | -26.1\% | 10.9 | 29.5\% | -2.2 | -4.4\% |
| 441R | Remaining Motor Vehicle \& Parts Dealers (by subbraction) | 29.1 | 24.7 | 27.3 | 28.2 | 28.0 | 29.9 | 30.6 | 31.3 | 31.4 | 31.3 | 31.9 | 31.5 | -4.4 | -15.1\% | 6.8 | 27.5\% | 2.4 | 8.2\% |
| 442 | Furniture \& Home Furnishings Stores | 13.3 | 7.0 | 10.9 | 11.8 | 12.6 | 13.0 | 12.7 | 12.8 | 12.6 | 12.6 | 12.8 | 13.2 | -6.3 | -47.4\% | 6.2 | 88.6\% | -0.1 | -0.8\% |
| 444 | Building Material \& Garden Eqpt. \& Supplies Dealers | 50.0 | 51.7 | 58.5 | 56.2 | 54.7 | 55.4 | 53.5 | 57.3 | 60.0 | 55.9 | 54.6 | 55.9 | 1.7 | 3.4\% | 4.2 | 8.1\% | 5.9 | 11.8\% |
| 4441 | Building Material \& Supplies Dealers | 44.1 | 44.6 | 50.1 | 48.7 | 47.1 | 47.1 | 46.2 | 49.1 | 51.5 | 47.9 | 47.1 | 48.5 | 0.5 | 1.1\% | 3.9 | 8.7\% | 4.4 | 10.0\% |
| 4442 | Lawn \& Garden Eqpt. \& Supplies Stores (by subtraction) | 5.9 | 7.1 | 8.4 | 7.5 | 7.6 | 8.3 | 7.3 | 8.2 | 8.5 | 8.0 | 7.5 | 7.4 | 1.2 | 20.3\% | 0.3 | 4.2\% | 1.5 | 25.4\% |
| 445 | Food \& Beverage Stores | 98.5 | 99.6 | 104.5 | 101.3 | 100.3 | 105.7 | 102.0 | 100.2 | 103.8 | 101.1 | 101.8 | 106.2 | 1.1 | 1.1\% | 6.6 | 6.6\% | 7.7 | 7.8\% |
| 4451 | Grocery Stores | 88.2 | 90.7 | 94.0 | 90.4 | 89.7 | 91.9 | 90.4 | 88.7 | 90.7 | 87.8 | 87.3 | 88.0 | 2.5 | 2.8\% | -2.7 | -3.0\% | -0.2 | -0.2\% |
| 445R | Remaining Food \& Beverage Stores (by subtraction) | 10.3 | 8.9 | 10.5 | 10.9 | 10.6 | 13.8 | 11.6 | 11.5 | 13.1 | 13.3 | 14.5 | 18.2 | -1.4 | -13.6\% | 9.3 | 104.5\% | 7.9 | 76.7\% |
| 446 | Heath \& Personal Care Stores | 35.0 | 31.3 | 32.0 | 33.9 | 34.9 | 35.8 | 34.3 | 34.8 | 34.2 | 33.7 | 34.4 | 36.5 | -3.7 | -10.6\% | 5.2 | 16.6\% | 1.5 | 4.3\% |
| 447 | Gasoline Stations | 36.0 | 33.7 | 34.5 | 35.6 | 35.9 | 35.9 | 35.0 | 35.9 | 37.5 | 38.1 | 37.5 | 37.5 | -2.3 | -6.4\% | 3.8 | 11.3\% | 1.5 | 4.2\% |
| 448 | Clothing \& Clothing Accessories Stores | 33.9 | 11.0 | 24.6 | 28.7 | 29.4 | 32.1 | 27.3 | 27.5 | 28.5 | 28.9 | 29.2 | 34.1 | -22.9 | -67.6\% | 23.1 | 210.0\% | 0.2 | 0.6\% |
| 452 | General Merchandise Stores | 106.3 | 96.8 | 106.8 | 107.6 | 109.7 | 115.3 | 108.1 | 107.0 | 107.1 | 106.4 | 111.8 | 123.1 | -9.5 | -8.9\% | 26.3 | 27.2\% | 16.8 | 15.8\% |
| 453 | Miscellaneous Store Retailers | 29.4 | 15.7 | 26.2 | 27.4 | 28.3 | 28.8 | 28.0 | 28.5 | 31.3 | 32.2 | 32.9 | 31.3 | -13.7 | -46.6\% | 15.6 | 99.4\% | 1.9 | 6.5\% |
| 44R, 45R | Remaining Retailers (by subtraction) | 60.5 | 46.0 | 54.4 | 57.5 | 62.4 | 63.1 | 57.1 | 58.4 | 57.5 | 57.7 | 61.5 | 60.3 | -14.5 | -24.0\% | 14.3 | 31.1\% | -0.2 | -0.3\% |
| $48->49$ | Transportation \& Warehousing (exc. U.S. Postal Service) | 223.6 | 207.1 | 225.8 | 229.6 | 236.2 | 250.9 | 237.7 | 233.3 | 234.2 | 240.4 | 251.3 | 265.6 | -16.5 | -7.4\% | 58.5 | 28.2\% | 42.0 | 18.8\% |
| 481 | Air Transportation | 10.5 | 10.1 | 9.6 | 9.8 | 9.6 | 10.1 | 10.1 | 10.0 | 9.9 | 10.0 | 9.9 | 9.9 | -0.4 | -3.8\% | -0.2 | -2.0\% | -0.6 |  |
| 484 | Truck Transportation | 70.7 | 64.0 | 69.7 | 70.8 | 70.8 | 72.5 | 70.8 | 71.0 | 72.5 | 73.5 | 75.1 | 74.7 | -6.7 | -9.5\% | 10.7 | 16.7\% | 4.0 | 5.7\% |
| 48R-49 | Remaining Transportation \& Warehousing (by subtraction) | 142.4 | 133.0 | 146.5 | 149.0 | 155.8 | 168.3 | 156.8 | 152.3 | 151.8 | 156.9 | 166.3 | 181.0 | -9.4 | -6.6\% | 48.0 | 36.1\% | 38.6 | 27.1\% |


|  |  | 2020 - Selected Months |  |  |  |  |  | 2021 - Selected Months |  |  |  |  |  | $\begin{gathered} 2 / 20->4 / 20 \\ \text { Changes } \\ \hline \end{gathered}$ |  | 4/20->12/21 <br> Changes* |  | 2/20->12/21 <br> Changes* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NAICS Codes | Sector \& Industry Titles | Feb | Apr | Jun | Aug | Oct | Dec | Feb | Apr | Jun | Aug | Oct | Dec* | Number P | Percent | Number P | Percent | Number P | Percent |
| 51 | Information | 68.3 | 61.4 | 62.0 | 62.6 | 63.1 | 62.5 | 62.8 | 62.9 | 64.3 | 65.3 | 64.5 | 64.9 | -6.9 | -10.1\% | 3.5 | 5.7\% | -3.4 | -5.0\% |
| 511 | Publishing Industries (exc. Internet) | 19.8 | 18.3 | 18.8 | 18.9 | 18.9 | 18.9 | 18.8 | 18.7 | 18.9 | 18.9 | 18.7 | 18.7 | -1.5 | -7.6\% | 0.4 | 2.2\% | -1.1 | -5.6\% |
| 517 | Telecommunications | 21.7 | 21.3 | 21.1 | 21.0 | 20.9 | 21.0 | 20.8 | 20.8 | 21.0 | 21.1 | 21.1 | 21.1 | -0.4 | -1.8\% | -0.2 | -0.9\% | -0.6 | -2.8\% |
| 51R | Remaining Information (by subtraction) | 26.8 | 21.8 | 22.1 | 22.7 | 23.3 | 22.6 | 23.2 | 23.4 | 24.4 | 25.3 | 24.7 | 25.1 | -5.0 | -18.7\% | 3.3 | 15.1\% | -1.7 | -6.3\% |
| 52 | Finance \& Insurance | 241.3 | 238.1 | 239.3 | 239.6 | 240.2 | 243.8 | 241.9 | 241.3 | 242.0 | 240.2 | 241.0 | 240.2 | -3.2 | -1.3\% | 2.1 | 0.9\% | -1.1 | -0.5\% |
| $521+522$ | Credit Intermediation \& Related Activities inc. Monetary Authorities | 95.6 | 94.0 | 94.7 | 95.1 | 94.5 | 95.2 | 94.9 | 93.7 | 92.8 | 91.9 | 92.6 | 91.5 | -1.6 | -1.7\% | -2.5 | -2.7\% | -4.1 | -4.3\% |
| $521+5221$ | Depository Credit Intermediation inc. Monetary Authorities | 64.0 | 63.5 | 63.8 | 63.5 | 62.7 | 63.2 | 63.2 | 63.1 | 62.8 | 62.4 | 62.3 | 62.2 | -0.5 | -0.8\% | -1.3 | -2.0\% | -1.8 | -2.8\% |
| 5222+5223 | Non-Depository Credit Intermediation \& Related Activities (by subtraction) | 31.6 | 30.5 | 30.9 | 31.6 | 31.8 | 32.0 | 31.7 | 30.6 | 30.0 | 29.5 | 30.3 | 29.3 | -1.1 | -3.5\% | -1.2 | -3.9\% | -2.3 | -7.3\% |
| 524 | Insurance Carriers \& Related Activities | 125.6 | 124.4 | 124.6 | 124.2 | 125.3 | 127.5 | 126.1 | 126.4 | 126.7 | 125.6 | 125.7 | 124.1 | -1.2 | -1.0\% | -0.3 | -0.2\% | -1.5 | -1.2\% |
| 5241 | Insurance Carriers | 80.0 | 79.8 | 79.7 | 78.9 | 79.1 | 80.1 | 79.5 | 79.2 | 79.5 | 78.9 | 78.4 | 79.1 | -0.2 | -0.3\% | -0.7 | -0.9\% | -0.9 | -1.1\% |
| 5242 | Agencies, Brokerages \& Other Insurance Related Activities (by subtraction) | 45.6 | 44.6 | 44.9 | 45.3 | 46.2 | 47.4 | 46.6 | 47.2 | 47.2 | 46.7 | 47.3 | 45.0 | -1.0 | -2.2\% | 0.4 | 0.9\% | -0.6 | -1.3\% |
| 523+525 | Securities, Commodities, Trusts, Financial Mgt., etc. (by subtraction) | 20.1 | 19.7 | 20.0 | 20.3 | 20.4 | 21.1 | 20.9 | 21.2 | 22.5 | 22.7 | 22.7 | 24.6 | -0.4 | -2.0\% | 4.9 | 24.9\% | 4.5 | 22.4\% |
| 53 | Real Estate \& Rental \& Leasing | 64.7 | 58.0 | 61.8 | 62.9 | 62.1 | 62.1 | 63.7 | 64.9 | 66.1 | 65.1 | 64.1 | 63.2 | -6.7 | -10.4\% | 5.2 | 9.0\% | -1.5 | -2.3\% |
| 54 | Professional, Scientific \& Technical Services | 272.5 | 254.8 | 257.0 | 259.9 | 259.3 | 257.7 | 260.7 | 261.5 | 260.7 | 262.8 | 265.9 | 269.2 | -17.7 | -6.5\% | 14.4 | 5.7\% | -3.3 | -1.2\% |
| 5411 | Legal Services | 31.4 | 29.4 | 30.3 | 30.4 | 30.3 | 29.7 | 28.9 | 29.2 | 30.1 | 30.3 | 30.1 | 29.9 | -2.0 | -6.4\% | 0.5 | 1.7\% | -1.5 | -4.8\% |
| 5412 | Accounting, Tax Preparation, Bookkeeping \& Payroll Services | 34.9 | 31.5 | 28.8 | 28.5 | 28.3 | 28.8 | 32.4 | 31.2 | 27.2 | 27.9 | 28.7 | 30.7 | -3.4 | -9.7\% | -0.8 | -2.5\% | -4.2 | -12.0\% |
| 5413 | Architectural, Engineering \& Related Services | 42.7 | 40.3 | 41.3 | 41.3 | 41.1 | 41.1 | 41.0 | 40.6 | 41.8 | 42.7 | 42.3 | 43.1 | -2.4 | -5.6\% | 2.8 | 6.9\% | 0.4 | 0.9\% |
| 5415 | Computer Systems Design \& Related Services | 65.0 | 63.8 | 62.7 | 64.2 | 63.1 | 62.4 | 64.4 | 64.9 | 66.0 | 66.1 | 68.2 | 69.0 | -1.2 | -1.8\% | 5.2 | 8.2\% | 4.0 | 6.2\% |
| 5416 | Mgt., Scientific \& Technical Consulting Services | 35.1 | 33.0 | 33.8 | 34.2 | 34.0 | 33.3 | 32.0 | 32.7 | 32.6 | 33.2 | 34.2 | 33.8 | -2.1 | -6.0\% | 0.8 | 2.4\% | -1.3 | -3.7\% |
| 5418 | Advertising, Public Relations \& Related Services | 12.6 | 10.5 | 10.8 | 11.2 | 11.5 | 11.5 | 11.3 | 11.4 | 11.6 | 11.6 | 11.9 | 12.0 | -2.1 | -16.7\% | 1.5 | 14.3\% | -0.6 | -4.8\% |
| 541 R | Remaining Professional, Scientific \& Technical Services (by subtraction) | 50.8 | 46.3 | 49.3 | 50.1 | 51.0 | 50.9 | 50.7 | 51.5 | 51.4 | 51.0 | 50.5 | 50.7 | -4.5 | -8.9\% | 4.4 | 9.5\% | -0.1 | -0.2\% |
| 55 | Mgt. of Companies \& Enterprises | 141.2 | 134.6 | 135.6 | 138.9 | 138.7 | 139.1 | 137.9 | 139.3 | 140.1 | 139.8 | 140.0 | 140.2 | -6.6 | -4.7\% | 5.6 | 4.2\% | -1.0 | -0.7\% |
| 56 | Administrative-Support \& Waste Mgt.-Remediation Services | 304.2 | 257.6 | 286.6 | 298.6 | 307.4 | 299.2 | 279.1 | 293.6 | 309.1 | 317.6 | 319.2 | 313.5 | -46.6 | -15.3\% | 55.9 | 21.7\% | 9.3 | 3.1\% |
| 561 | Administrative \& Support Services | 286.6 | 240.8 | 269.1 | 281.1 | 290.1 | 281.9 | 262.1 | 276.3 | 291.9 | 300.2 | 301.8 | 296.4 | -45.8 | -16.0\% | 55.6 | 23.1\% | 9.8 | 3.4\% |
| 5613 | Employment Services | 126.1 | 89.1 | 103.1 | 113.5 | 121.3 | 126.3 | 126.1 | 89.1 | 103.1 | 113.5 | 121.3 | 126.3 | -37.0 | -29.3\% | 37.2 | 41.8\% | 0.2 | 0.2\% |
| 5614 | Business Support Services | 34.7 | 31.2 | 31.8 | 32.5 | 33.9 | 34.8 | 33.4 | 32.8 | 32.2 | 32.1 | 32.8 | 33.5 | -3.5 | -10.1\% | 2.3 | 7.4\% | -1.2 | -3.5\% |
| 5617 | Services to Buildings \& Dwellings | 63.0 | 65.4 | 76.3 | 75.7 | 75.2 | 63.3 | 60.5 | 72.3 | 78.6 | 76.2 | 73.7 | 68.1 | 2.4 | 3.8\% | 2.7 | 4.1\% | 5.1 | 8.1\% |
| 561 R | Remaining Administrative Support Services (by subtraction) | 62.8 | 55.1 | 57.9 | 59.4 | 59.7 | 57.5 | 42.1 | 82.1 | 78.0 | 78.4 | 74.0 | 68.5 | -7.7 | -12.3\% | 13.4 | 24.3\% | 5.7 | 9.1\% |
| 562 | Waste Mgt. \& Remediation Services (by subtraction) | 17.6 | 16.8 | 17.5 | 17.5 | 17.3 | 17.3 | 17.0 | 17.3 | 17.2 | 17.4 | 17.4 | 17.1 | -0.8 | -4.5\% | 0.3 | 1.8\% | -0.5 | -2.8\% |
| 61 | Educational Services | 120.6 | 102.5 | 94.8 | 96.9 | 111.4 | 102.2 | 107.1 | 112.2 | 97.0 | 91.0 | 106.4 | 107.3 | -18.1 | -15.0\% | 4.8 | 4.7\% | -13.3 | -11.0\% |
| 6113 | Colleges, Universities \& Professional Schools | 64.1 | 57.7 | 47.6 | 49.7 | 58.2 | 53.8 | 56.2 | 57.8 | 45.3 | 43.0 | 56.8 | 55.7 | -6.4 | -10.0\% | -2.0 | -3.5\% | -8.4 | -13.1\% |
| 61 R | Remaining Educational Services (by subtraction) | 56.5 | 44.8 | 47.2 | 47.2 | 53.2 | 48.4 | 50.9 | 54.4 | 51.7 | 48.0 | 49.6 | 51.6 | -11.7 | -20.7\% | 6.8 | 15.2\% | -4.9 | -8.7\% |
| 62 | Health Care \& Social Assistance | 827.2 | 728.9 | 776.6 | 785.9 | 791.7 | 794.5 | 789.4 | 790.3 | 790.2 | 797.0 | 793.3 | 788.3 | -98.3 | -11.9\% | 59.4 | 8.1\% | -38.9 | -4.7\% |
| 621 | Ambulatory Health Care Services (by subtraction) | 278.7 | 229.9 | 262.6 | 269.4 | 272.3 | 275.0 | 273.1 | 272.7 | 273.9 | 278.1 | 278.7 | 278.9 | -48.8 | -17.5\% | 49.0 | 21.3\% | 0.2 | 0.1\% |
| 622 | Hospitals | 256.1 | 245.5 | 249.5 | 249.8 | 252.2 | 253.5 | 253.1 | 251.8 | 253.6 | 254.9 | 255.1 | 254.8 | -10.6 | -4.1\% | 9.3 | 3.8\% | -1.3 | -0.5\% |
| 623 | Nursing \& Residential Care Facilities | 165.6 | 159.1 | 156.6 | 154.3 | 151.8 | 150.2 | 147.8 | 149.0 | 147.0 | 147.0 | 143.1 | 140.3 | -6.5 | -3.9\% | -18.8 | -11.8\% | -25.3 | -15.3\% |
| 624 | Social Assistance | 126.8 | 94.4 | 107.9 | 112.4 | 115.4 | 115.8 | 115.4 | 116.8 | 115.7 | 117.0 | 116.4 | 114.3 | -32.4 | -25.6\% | 19.9 | 21.1\% | -12.5 | -9.9\% |
| 71 | Arts, Entertainment \& Recreation | 70.1 | 34.5 | 67.3 | 72.2 | 59.0 | 47.2 | 47.5 | 63.4 | 93.5 | 89.7 | 66.5 | 54.2 | -35.6 | -50.8\% | 19.7 | 57.1\% | -15.9 | -22.7\% |
| 711-2 | Performance, Spectator Sports, Museums, Historical Sites, etc. (by subtraction | 20.1 | 13.3 | 13.2 | 13.5 | 14.7 | 15.7 | 16.6 | 21.6 | 25.5 | 25.6 | 23.5 | 20.6 | -6.8 | -33.8\% | 7.3 | 54.9\% | 0.5 | 2.5\% |
| 713 | Amusement, Gambling \& Recreation Industries | 50.0 | 21.2 | 54.1 | 58.7 | 44.3 | 31.5 | 30.9 | 41.8 | 68.0 | 64.1 | 43.0 | 33.6 | -28.8 | -57.6\% | 12.4 | 58.5\% | -16.4 | -32.8\% |
| 72 | Accommodation \& Food Services | 476.5 | 262.1 | 395.7 | 413.8 | 413.4 | 406.7 | 406.9 | 413.2 | 435.8 | 446.9 | 444.5 | 447.7 | -214.4 | -45.0\% | 185.6 | 70.8\% | -28.8 | -6.0\% |
| 721 | Accommodation | 36.0 | 16.8 | 23.9 | 27.0 | 25.8 | 22.0 | 23.3 | 26.8 | 32.8 | 35.3 | 35.3 | 34.9 | -19.2 | -53.3\% | 18.1 | 107.7\% | -1.1 | -3.1\% |
| 722 | Food Services \& Drinking Places | 440.5 | 245.3 | 371.8 | 386.8 | 387.6 | 384.7 | 383.6 | 386.4 | 403.0 | 411.6 | 409.2 | 412.8 | -195.2 | -44.3\% | 167.5 | 68.3\% | -27.7 | -6.3\% |
| 81 | Other Services exc. Private Households | 211.2 | 142.9 | 183.2 | 191.3 | 194.1 | 190.8 | 188.8 | 188.4 | 193.4 | 190.5 | 191.8 | 192.9 | -68.3 | -32.3\% | 50.0 | 35.0\% | -18.3 | -8.7\% |
| 811 | Repair \& Maintenance | 49.3 | 40.9 | 46.1 | 47.5 | 47.3 | 48.0 | 46.7 | 45.7 | 46.5 | 46.4 | 47.1 | 47.5 | -8.4 | -17.0\% | 6.6 | 16.1\% | -1.8 | -3.7\% |
| 812 | Personal \& Laundry Services | 55.6 | 23.8 | 47.9 | 49.3 | 49.1 | 48.7 | 48.9 | 47.5 | 49.5 | 48.0 | 48.7 | 50.4 | -31.8 | -57.2\% | 26.6 | 111.8\% | -5.2 | -9.4\% |
| 813 | Religious, Grantmaking, Civic, Professional \& Similar Organizations | 106.3 | 78.2 | 89.2 | 94.5 | 97.7 | 94.1 | 93.2 | 95.2 | 97.4 | 96.1 | 96.0 | 95.0 | -28.1 | -26.4\% | 16.8 | 21.5\% | -11.3 | -10.6\% |
| 92 | Government | 802.6 | 767.7 | 727.7 | 724.4 | 763.3 | 754.9 | 752.1 | 760.8 | 739.3 | 727.7 | 768.9 | 765.7 | -34.9 | -4.3\% | -2.0 | -0.3\% | -36.9 | -4.6\% |
| 92F | Federal Government | 79.7 | 80.0 | 80.1 | 89.6 | 82.5 | 80.4 | 78.8 | 79.2 | 78.7 | 79.2 | 79.0 | 80.5 | 0.3 | 0.4\% | 0.5 | 0.6\% | 0.8 | 1.0\% |
| 92F-USPS | U.S. Postal Service | 22.6 | 22.6 | 22.6 | 22.5 | 22.6 | 22.9 | 22.4 | 22.6 | 22.1 | 22.5 | 22.3 | 23.1 | 0.0 | 0.0\% | 0.5 | 2.2\% | 0.5 | 2.2\% |
| 92F-UUSPS | Military \& Remaining Federal Civilian Employees (by subtraction) | 57.1 | 57.4 | 57.5 | 67.1 | 59.9 | 57.5 | 56.4 | 56.6 | 56.6 | 56.7 | 56.7 | 57.4 | 0.3 | 0.5\% | 0.0 | 0.0\% | 0.3 | 0.5\% |
| 92 S | State Government | 186.6 | 178.1 | 152.7 | 150.7 | 168.9 | 167.9 | 167.9 | 169.6 | 145.9 | 146.6 | 170.9 | 165.9 | -8.5 | -4.6\% | -12.2 | -6.9\% | -20.7 | -11.1\% |
| 92SE | State Government Educational Services | 111.6 | 103.8 | 78.5 | 76.8 | 95.1 | 93.7 | 93.6 | 95.7 | 72.2 | 73.6 | 98.1 | 93.8 | -7.8 | -7.0\% | -10.0 | -9.6\% | -17.8 | -15.9\% |
| 92S^E | State Government exc. Education | 75.0 | 74.3 | 74.2 | 73.9 | 73.8 | 74.2 | 74.3 | 73.9 | 73.7 | 73.0 | 72.8 | 72.1 | -0.7 | -0.9\% | -2.2 | -3.0\% | -2.9 | -3.9\% |
| 92 L | Local Government | 536.3 | 509.6 | 494.9 | 484.1 | 511.9 | 506.6 | 505.4 | 512.0 | 514.7 | 501.9 | 519.0 | 519.3 | -26.7 | -5.0\% | 9.7 | 1.9\% | -17.0 | -3.2\% |
| 92LE | Local Government Educational Services | 301.3 | 282.8 | 264.6 | 252.5 | 278.8 | 277.7 | 278.3 | 281.3 | 273.9 | 261.7 | 287.3 | 288.2 | -18.5 | -6.1\% | 5.4 | 1.9\% | -13.1 | -4.3\% |
| 92L^E | Local Government exc. Educational Services | 235.0 | 226.8 | 230.3 | 231.6 | 233.1 | 228.9 | 227.1 | 230.7 | 240.8 | 240.2 | 231.7 | 231.1 | -8.2 | -3.5\% | 4.3 | 1.9\% | -3.9 | -1.7\% |
| 92LH | Local Government Hospitals | 11.6 | 11.1 | 11.4 | 11.5 | 11.5 | 11.7 | 11.6 | 11.5 | 11.5 | 11.5 | 11.6 | 11.6 | -0.5 | -4.3\% | 0.5 | 4.5\% | 0.0 | 0.0\% |
| 92L^H | Local Government exc. Educational Services \& Hospitals (by subtraction) | 223.4 | 215.7 | 218.9 | 220.1 | 221.6 | 217.2 | 215.5 | 219.2 | 229.3 | 228.7 | 220.1 | 219.5 | -7.7 | -3.4\% | 3.8 | 1.8\% | -3.9 | -1.7\% |

Note: * - preliminary, probably will be revised; earlier months may have been revised.
Sources: U.S. BLS (CES): https://data.bls.gov/, CES state data not seasonally adjusted; U.S. Bureau of the Census NAICS search: https://www.census.gov/cgi-bin/sssd/naics/naicsrch?chart=2012.
Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

Table A2: 2020 GDP by County and Sector (in millions)

| Industry Title |  | des | U.S. | Ohio | Adams | Allen^ | Ashland | Ashtabula | Athens | Auglaize | Belmont^ | Brown |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | \$20,893,746 | \$677,561 | \$810.6 | \$8,116.4 | \$1,873.4 | \$3,193.7 | \$2,167.6 | \$2,292.7 | \$2,963.1 | \$916.2 |
| Private industries | 2 |  | \$18,223,132 | \$601,897 | \$715.0 | \$7,578.3 | \$1,673.8 | \$2,849.1 | \$1,369.8 | \$2,116.5 | \$2,661.7 | \$746.1 |
| Goods-producing Industries | 91 |  | \$3,524,445 | \$139,369 | (D) | \$4,349.5 | \$527.7 | \$1,133.8 | \$136.5 | \$1,152.1 | \$1,167.0 | \$156.0 |
| Natural Resources \& Mining | 87 |  | \$356,627 | \$7,982 | (D) | \$57.7 | \$40.8 | \$36.0 | \$5.0 | \$96.8 | (D) | \$30.9 |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | \$174,527 | \$3,915 | (D) | \$49.5 | \$37.4 | \$31.1 | \$1.4 | \$95.0 | (D) | \$23.1 |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | \$182,099 | \$4,066 | \$6.1 | \$8.2 | \$3.3 | \$5.0 | \$3.6 | \$1.8 | \$961.3 | \$7.9 |
| Construction | 11 | 23 | \$895,860 | \$26,084 | \$49.6 | \$188.6 | \$107.0 | \$211.5 | \$60.7 | \$93.0 | (D) | \$59.4 |
| Manufacturing | 12 | 31-33 | \$2,271,960 | \$105,303 | \$153.0 | \$4,103.3 | \$380.0 | \$886.3 | \$70.8 | \$962.2 | \$107.2 | \$65.7 |
| Durable Goods Mfg. |  | 32p-33 | \$1,268,834 | \$57,594 | \$145.9 | \$555.6 | \$216.6 | \$373.4 | \$28.4 | \$643.6 | \$33.1 | \$58.9 |
| Non-durable Goods Mfg. |  | 31-32p | \$1,003,125 | \$47,709 | \$7.1 | \$3,547.7 | \$163.4 | \$512.9 | \$42.4 | \$318.6 | \$74.1 | \$6.9 |
| Services-Providing Industries | 92 |  | \$14,698,687 | \$462,529 | (D) | \$3,228.8 | \$1,146.1 | \$1,715.3 | \$1,233.3 | \$964.4 | \$1,494.7 | \$590.2 |
| Transportation \& Utilities | 89 |  | \$913,741 | \$33,023 | (D) | \$151.7 | \$68.1 | \$145.9 | \$35.6 | (D) | \$119.6 | \$37.3 |
| Utilities | 10 | 22 | \$341,717 | \$10,907 | (D) | \$18.8 | \$0.0 | \$33.6 | \$12.2 | \$4.4 | \$24.7 | \$4.8 |
| Transportation \& Warehousing | 36 | 48-49 | \$572,021 | \$22,116 | \$17.0 | \$132.8 | \$68.1 | \$112.4 | \$23.4 | (D) | \$94.9 | \$32.5 |
| Trade | 88 |  | \$2,445,476 | \$82,410 | \$118.6 | \$770.3 | \$237.4 | \$305.8 | \$245.7 | \$253.7 | \$321.9 | (D) |
| Wholesale Trade | 34 | 42 | \$1,243,274 | \$41,728 | \$56.1 | \$405.6 | \$103.9 | \$92.7 | \$72.5 | \$128.1 | \$85.8 | (D) |
| Retail Trade | 35 | 44-45 | \$1,202,203 | \$40,682 | \$62.5 | \$364.7 | \$133.5 | \$213.1 | \$173.3 | \$125.6 | \$236.1 | \$83.9 |
| Information | 45 | 51 | \$1,167,921 | \$17,117 | \$6.0 | \$68.2 | \$49.5 | \$48.7 | \$59.4 | \$37.0 | \$65.0 | \$4.7 |
| Finance-Insurance-Real Estate, etc. | 50 |  | \$4,592,105 | \$153,758 | \$167.4 | \$743.1 | \$312.9 | \$563.0 | \$429.1 | \$293.8 | \$542.6 | \$247.5 |
| Finance \& Insurance | 51 | 52 | \$1,787,746 | \$76,444 | \$60.6 | \$282.2 | \$88.3 | \$129.3 | \$100.8 | \$100.1 | \$193.4 | \$60.1 |
| Real Estate-Rental-Leasing | 56 | 53 | \$2,804,359 | \$77,313 | \$106.8 | \$461.0 | \$224.7 | \$433.7 | \$328.4 | \$193.7 | \$349.2 | \$187.4 |
| Professional \& Business Services | 59 |  | \$2,689,775 | \$78,334 | \$64.1 | \$441.3 | \$182.9 | \$180.6 | \$125.2 | (D) | \$133.4 | (D) |
| Professional-Scientific-Technical | 60 | 54 | \$1,627,764 | \$35,484 | \$15.7 | \$138.9 | \$109.9 | \$77.7 | \$48.0 | \$45.5 | \$40.3 | (D) |
| Enterprise Management | 64 | 55 | \$410,456 | \$22,808 | \$35.9 | \$62.7 | \$39.5 | \$38.6 | \$50.6 | (D) | \$37.1 | (D) |
| Administrative Support \& Waste Mgt. | 65 | 56 | \$651,554 | \$20,043 | \$12.5 | \$239.7 | \$33.5 | \$64.3 | \$26.6 | (D) | \$56.1 | \$21.6 |
| Education-Health Care-Social Assistance | 68 |  | \$1,798,603 | \$64,348 | \$58.4 | \$793.8 | \$199.1 | \$314.4 | \$219.6 | \$132.4 | \$176.6 | \$64.7 |
| Educational Services | 69 | 61 | \$251,318 | \$5,693 | \$1.7 | \$54.0 | (D) | \$6.6 | \$3.2 | \$3.4 | \$7.1 | \$4.1 |
| Health Care \& Social Assistance | 70 | 62 | \$1,547,286 | \$58,655 | \$56.6 | \$739.8 | (D) | \$307.7 | \$216.4 | \$129.1 | \$169.4 | \$60.7 |
| Leisure \& Hospitality | 75 |  | \$672,078 | \$20,112 | (D) | \$142.8 | \$53.8 | \$89.5 | \$75.0 | \$50.8 | \$80.9 | \$26.5 |
| Arts-Entertainment-Recreation | 76 | 71 | \$163,359 | \$5,688 | (D) | \$13.2 | \$6.2 | \$8.8 | \$3.7 | \$6.4 | \$4.3 | \$1.8 |
| Accommodation \& Food Services | 79 | 72 | \$508,719 | \$14,424 | \$14.0 | \$129.7 | \$47.6 | \$80.6 | \$71.3 | \$44.4 | \$76.7 | \$24.8 |
| Other Services (exc. Government) | 82 | 81 | \$418,990 | \$13,429 | \$20.3 | \$117.4 | \$42.5 | \$67.3 | \$43.7 | \$50.3 | \$54.8 | \$33.3 |
| Governments \& Their Enterprises | 83 | 92 | \$2,670,611 | \$75,664 | \$95.5 | \$538.1 | \$199.6 | \$344.6 | \$797.8 | \$176.2 | \$301.4 | \$170.1 |
| Not Disclosed by Most-Specific Industry* |  |  | \$0 | \$0 | \$40.6 | \$0.0 | \$199.1 | \$0.0 | \$0.0 | \$96.5 | \$98.4 | \$70.7 |

Notes and Abbreviations: ^ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p - part; \$0.0 may also mean less than $\$ 500,000$. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: 2020 GDP by County and Sector - Percentage Distribution

| Industry Title | Codes |  | U.S. | Ohio | Adams | Allen^ | Ashland | Ashtabula | Athens | Auglaize | Belmont^ | Brown |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% |
| Private industries | 2 |  | 87.2\% | 88.8\% | 88.2\% | 93.4\% | 89.3\% | 89.2\% | 63.2\% | 92.3\% | 89.8\% | 81.4\% |
| Goods-producing Industries | 91 |  | 16.9\% | 20.6\% | (D) | 53.6\% | 28.2\% | 35.5\% | 6.3\% | 50.2\% | 39.4\% | 17.0\% |
| Natural Resources \& Mining | 87 |  | 1.7\% | 1.2\% | (D) | 0.7\% | 2.2\% | 1.1\% | 0.2\% | 4.2\% | (D) | 3.4\% |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | 0.8\% | 0.6\% | (D) | 0.6\% | 2.0\% | 1.0\% | 0.1\% | 4.1\% | (D) | 2.5\% |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | 0.9\% | 0.6\% | 0.7\% | 0.1\% | 0.2\% | 0.2\% | 0.2\% | 0.1\% | 32.4\% | 0.9\% |
| Construction | 11 | 23 | 4.3\% | 3.8\% | 6.1\% | 2.3\% | 5.7\% | 6.6\% | 2.8\% | 4.1\% | (D) | 6.5\% |
| Manufacturing |  | 31-33 | 10.9\% | 15.5\% | 18.9\% | 50.6\% | 20.3\% | 27.8\% | 3.3\% | 42.0\% | 3.6\% | 7.2\% |
| Durable Goods Mfg. |  | 32p-33 | 6.1\% | 8.5\% | 18.0\% | 6.8\% | 11.6\% | 11.7\% | 1.3\% | 28.1\% | 1.1\% | 6.4\% |
| Non-durable Goods Mfg. |  | 31-32p | 4.8\% | 7.0\% | 0.9\% | 43.7\% | 8.7\% | 16.1\% | 2.0\% | 13.9\% | 2.5\% | 0.7\% |
| Services-Providing Industries | 92 |  | 70.3\% | 68.3\% | (D) | 39.8\% | 61.2\% | 53.7\% | 56.9\% | 42.1\% | 50.4\% | 64.4\% |
| Transportation \& Utilities | 89 |  | 4.4\% | 4.9\% | (D) | 1.9\% | 3.6\% | 4.6\% | 1.6\% | (D) | 4.0\% | 4.1\% |
| Utilities | 10 | 22 | 1.6\% | 1.6\% | (D) | 0.2\% | 0.0\% | 1.1\% | 0.6\% | 0.2\% | 0.8\% | 0.5\% |
| Transportation \& Warehousing | 36 | 48-49 | 2.7\% | 3.3\% | 2.1\% | 1.6\% | 3.6\% | 3.5\% | 1.1\% | (D) | 3.2\% | 3.5\% |
| Trade | 88 |  | 11.7\% | 12.2\% | 14.6\% | 9.5\% | 12.7\% | 9.6\% | 11.3\% | 11.1\% | 10.9\% | (D) |
| Wholesale Trade | 34 | 42 | 6.0\% | 6.2\% | 6.9\% | 5.0\% | 5.5\% | 2.9\% | 3.3\% | 5.6\% | 2.9\% | (D) |
| Retail Trade | 35 | 44-45 | 5.8\% | 6.0\% | 7.7\% | 4.5\% | 7.1\% | 6.7\% | 8.0\% | 5.5\% | 8.0\% | 9.2\% |
| Information | 45 | 51 | 5.6\% | 2.5\% | 0.7\% | 0.8\% | 2.6\% | 1.5\% | 2.7\% | 1.6\% | 2.2\% | 0.5\% |
| Finance-Insurance-Real Estate, etc. | 50 |  | 22.0\% | 22.7\% | 20.6\% | 9.2\% | 16.7\% | 17.6\% | 19.8\% | 12.8\% | 18.3\% | 27.0\% |
| Finance \& Insurance | 51 | 52 | 8.6\% | 11.3\% | 7.5\% | 3.5\% | 4.7\% | 4.0\% | 4.6\% | 4.4\% | 6.5\% | 6.6\% |
| Real Estate-Rental-Leasing | 56 | 53 | 13.4\% | 11.4\% | 13.2\% | 5.7\% | 12.0\% | 13.6\% | 15.1\% | 8.4\% | 11.8\% | 20.5\% |
| Professional \& Business Services | 59 |  | 12.9\% | 11.6\% | 7.9\% | 5.4\% | 9.8\% | 5.7\% | 5.8\% | (D) | 4.5\% | (D) |
| Professional-Scientific-Technical | 60 | 54 | 7.8\% | 5.2\% | 1.9\% | 1.7\% | 5.9\% | 2.4\% | 2.2\% | 2.0\% | 1.4\% | (D) |
| Enterprise Management | 64 | 55 | 2.0\% | 3.4\% | 4.4\% | 0.8\% | 2.1\% | 1.2\% | 2.3\% | (D) | 1.3\% | (D) |
| Administrative Support \& Waste Mgt. | 65 | 56 | 3.1\% | 3.0\% | 1.5\% | 3.0\% | 1.8\% | 2.0\% | 1.2\% | (D) | 1.9\% | 2.4\% |
| Education-Health Care-Social Assistance | 68 |  | 8.6\% | 9.5\% | 7.2\% | 9.8\% | 10.6\% | 9.8\% | 10.1\% | 5.8\% | 6.0\% | 7.1\% |
| Educational Services | 69 | 61 | 1.2\% | 0.8\% | 0.2\% | 0.7\% | (D) | 0.2\% | 0.1\% | 0.1\% | 0.2\% | 0.4\% |
| Health Care \& Social Assistance | 70 | 62 | 7.4\% | 8.7\% | 7.0\% | 9.1\% | (D) | 9.6\% | 10.0\% | 5.6\% | 5.7\% | 6.6\% |
| Leisure \& Hospitality | 75 |  | 3.2\% | 3.0\% | (D) | 1.8\% | 2.9\% | 2.8\% | 3.5\% | 2.2\% | 2.7\% | 2.9\% |
| Arts-Entertainment-Recreation | 76 | 71 | 0.8\% | 0.8\% | (D) | 0.2\% | 0.3\% | 0.3\% | 0.2\% | 0.3\% | 0.1\% | 0.2\% |
| Accommodation \& Food Services | 79 | 72 | 2.4\% | 2.1\% | 1.7\% | 1.6\% | 2.5\% | 2.5\% | 3.3\% | 1.9\% | 2.6\% | 2.7\% |
| Other Services (exc. Government) | 82 | 81 | 2.0\% | 2.0\% | 2.5\% | 1.4\% | 2.3\% | 2.1\% | 2.0\% | 2.2\% | 1.8\% | 3.6\% |
| Governments \& Their Enterprises | 83 | 92 | 12.8\% | 11.2\% | 11.8\% | 6.6\% | 10.7\% | 10.8\% | 36.8\% | 7.7\% | 10.2\% | 18.6\% |
| Not Disclosed by Most-Specific Industry* |  |  | 0.0\% | 0.0\% | 5.0\% | 0.0\% | 10.6\% | 0.0\% | 0.0\% | 4.2\% | 3.3\% | 7.7\% |

Notes and Abbreviations: ${ }^{\wedge}$ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p-part; 0.0\% may also mean less than $0.05 \%$. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: 2020 GDP by County and Sector (in millions)

| Industry Title |  | des | U.S. | Ohio | Butler | Carroll | Champaign | Clark^ | Clermont | Clinton | Columbiana | Coshocton |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | \$20,893,746 | \$677,561 | \$22,178.0 | \$1,184.4 | \$1,285.8 | \$4,665.7 | \$9,245.6 | \$2,331.8 | \$3,100.0 | \$1,285.7 |
| Private industries | 2 |  | \$18,223,132 | \$601,897 | \$20,364.5 | \$1,105.3 | \$1,136.4 | \$4,083.8 | \$8,539.7 | \$2,144.4 | \$2,681.6 | \$1,164.4 |
| Goods-producing Industries | 91 |  | \$3,524,445 | \$139,369 | \$5,832.7 | \$300.1 | \$553.0 | (D) | (D) | \$604.2 | (D) | \$470.0 |
| Natural Resources \& Mining | 87 |  | \$356,627 | \$7,982 | \$34.1 | \$115.4 | \$90.5 | (D) | (D) | \$52.8 | (D) | \$44.5 |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | \$174,527 | \$3,915 | \$11.3 | \$4.4 | \$87.7 | (D) | (D) | \$52.8 | (D) | \$36.7 |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | \$182,099 | \$4,066 | \$22.8 | \$111.0 | \$2.8 | \$17.0 | \$12.1 | \$0.0 | \$49.1 | \$7.8 |
| Construction | 11 | 23 | \$895,860 | \$26,084 | \$1,165.9 | \$65.8 | \$39.8 | \$130.9 | \$436.5 | \$64.5 | \$204.1 | \$55.2 |
| Manufacturing | 12 | 31-33 | \$2,271,960 | \$105,303 | \$4,632.8 | \$118.9 | \$422.7 | \$634.1 | \$713.6 | \$486.9 | \$615.6 | \$370.3 |
| Durable Goods Mfg. | 13 | 32p-33 | \$1,268,834 | \$57,594 | \$2,760.9 | \$84.0 | \$330.6 | \$471.7 | \$428.5 | \$165.5 | \$335.5 | \$157.0 |
| Non-durable Goods Mfg. | 25 | 31-32p | \$1,003,125 | \$47,709 | \$1,871.9 | \$34.8 | \$92.1 | \$162.4 | \$285.1 | \$321.4 | \$280.1 | \$213.3 |
| Services-Providing Industries | 92 |  | \$14,698,687 | \$462,529 | \$14,531.8 | \$805.2 | \$583.4 | (D) | (D) | \$1,540.2 | (D) | \$694.4 |
| Transportation \& Utilities | 89 |  | \$913,741 | \$33,023 | \$1,005.7 | (D) | (D) | (D) | (D) | \$397.2 | (D) | \$139.6 |
| Utilities | 10 | 22 | \$341,717 | \$10,907 | \$308.4 | (D) | (D) | (D) | (D) | \$1.1 | (D) | \$96.3 |
| Transportation \& Warehousing | 36 | 48-49 | \$572,021 | \$22,116 | \$697.3 | \$49.7 | \$27.4 | \$213.9 | \$1,692.7 | \$396.2 | \$130.5 | \$43.3 |
| Trade | 88 |  | \$2,445,476 | \$82,410 | \$4,489.6 | (D) | (D) | (D) | \$1,035.2 | (D) | (D) | \$103.6 |
| Wholesale Trade | 34 | 42 | \$1,243,274 | \$41,728 | \$2,956.1 | (D) | (D) | (D) | \$328.0 | (D) | (D) | \$26.3 |
| Retail Trade | 35 | 44-45 | \$1,202,203 | \$40,682 | \$1,533.5 | \$49.0 | \$69.7 | \$297.9 | \$707.2 | \$105.1 | \$266.6 | \$77.3 |
| Information | 45 | 51 | \$1,167,921 | \$17,117 | \$184.6 | \$8.2 | \$11.1 | \$29.6 | (D) | (D) | \$32.7 | \$16.8 |
| Finance-Insurance-Real Estate, etc. | 50 |  | \$4,592,105 | \$153,758 | \$4,989.4 | \$203.7 | \$240.8 | \$1,119.3 | \$2,216.0 | \$310.5 | \$584.0 | \$221.3 |
| Finance \& Insurance | 51 | 52 | \$1,787,746 | \$76,444 | \$2,511.5 | \$35.5 | \$71.0 | \$481.8 | \$940.9 | \$95.7 | \$180.9 | \$62.8 |
| Real Estate-Rental-Leasing | 56 | 53 | \$2,804,359 | \$77,313 | \$2,477.9 | \$168.2 | \$169.8 | \$637.5 | \$1,275.1 | \$214.7 | \$403.2 | \$158.5 |
| Professional \& Business Services | 59 |  | \$2,689,775 | \$78,334 | \$1,469.4 | (D) | \$78.1 | \$439.3 | \$702.8 | \$207.3 | \$185.9 | \$74.8 |
| Professional-Scientific-Technical | 60 | 54 | \$1,627,764 | \$35,484 | \$541.6 | (D) | \$30.7 | \$92.5 | \$365.4 | \$31.2 | \$58.6 | (D) |
| Enterprise Management | 64 | 55 | \$410,456 | \$22,808 | \$322.4 | (D) | (D) | \$198.9 | \$83.8 | \$79.6 | \$47.1 | (D) |
| Administrative Support \& Waste Mgt. | 65 | 56 | \$651,554 | \$20,043 | \$605.3 | \$11.7 | (D) | \$147.9 | \$253.6 | \$96.5 | \$80.3 | \$20.4 |
| Education-Health Care-Social Assistance | 68 |  | \$1,798,603 | \$64,348 | \$1,386.8 | (D) | \$61.8 | \$515.6 | \$424.3 | \$116.3 | \$271.7 | \$85.3 |
| Educational Services | 69 | 61 | \$251,318 | \$5,693 | \$56.7 | (D) | \$6.6 | \$47.6 | \$22.5 | (D) | \$8.2 | \$4.5 |
| Health Care \& Social Assistance | 70 | 62 | \$1,547,286 | \$58,655 | \$1,330.1 | (D) | \$55.2 | \$468.0 | \$401.8 | (D) | \$263.5 | \$80.8 |
| Leisure \& Hospitality | 75 |  | \$672,078 | \$20,112 | \$585.9 | \$16.5 | \$21.4 | \$144.6 | \$260.9 | \$48.5 | \$71.0 | \$20.5 |
| Arts-Entertainment-Recreation | 76 | 71 | \$163,359 | \$5,688 | \$105.1 | \$3.0 | \$5.1 | \$15.8 | \$44.3 | \$9.9 | \$9.4 | \$3.8 |
| Accommodation \& Food Services | 79 | 72 | \$508,719 | \$14,424 | \$480.8 | \$13.5 | \$16.3 | \$128.8 | \$216.6 | \$38.6 | \$61.6 | \$16.8 |
| Other Services (exc. Government) | 82 | 81 | \$418,990 | \$13,429 | \$420.3 | \$21.4 | \$31.4 | \$135.1 | \$214.1 | (D) | \$101.2 | \$32.5 |
| Governments \& Their Enterprises | 83 | 92 | \$2,670,611 | \$75,664 | \$1,813.5 | \$79.1 | \$149.4 | \$581.9 | \$705.9 | \$187.4 | \$418.4 | \$121.3 |
| Not Disclosed by Most-Specific Industry* |  |  | \$0 | \$0 | \$0.0 | \$445.0 | \$89.2 | \$406.5 | \$831.4 | \$471.6 | \$169.1 | \$54.4 |

Notes and Abbreviations: ${ }^{\wedge}$ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p - part; \$0.0 may also mean less than $\$ 500,000$. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: $\mathbf{2 0 2 0}$ GDP by County and Sector - Percentage Distribution

| Industry Title | Codes |  | U.S. | Ohio | Butler | Carroll | Champaign | Clark^ | Clermont | Clinton | Columbiana | Coshocton |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% |
| Private industries | 2 |  | 87.2\% | 88.8\% | 91.8\% | 93.3\% | 88.4\% | 87.5\% | 92.4\% | 92.0\% | 86.5\% | 90.6\% |
| Goods-producing Industries | 91 |  | 16.9\% | 20.6\% | 26.3\% | 25.3\% | 43.0\% | (D) | (D) | 25.9\% | (D) | 36.6\% |
| Natural Resources \& Mining | 87 |  | 1.7\% | 1.2\% | 0.2\% | 9.7\% | 7.0\% | (D) | (D) | 2.3\% | (D) | 3.5\% |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | 0.8\% | 0.6\% | 0.1\% | 0.4\% | 6.8\% | (D) | (D) | 2.3\% | (D) | 2.9\% |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | 0.9\% | 0.6\% | 0.1\% | 9.4\% | 0.2\% | 0.4\% | 0.1\% | 0.0\% | 1.6\% | 0.6\% |
| Construction | 11 | 23 | 4.3\% | 3.8\% | 5.3\% | 5.6\% | 3.1\% | 2.8\% | 4.7\% | 2.8\% | 6.6\% | 4.3\% |
| Manufacturing |  | 31-33 | 10.9\% | 15.5\% | 20.9\% | 10.0\% | 32.9\% | 13.6\% | 7.7\% | 20.9\% | 19.9\% | 28.8\% |
| Durable Goods Mfg. |  | 32p-33 | 6.1\% | 8.5\% | 12.4\% | 7.1\% | 25.7\% | 10.1\% | 4.6\% | 7.1\% | 10.8\% | 12.2\% |
| Non-durable Goods Mfg. |  | 31-32p | 4.8\% | 7.0\% | 8.4\% | 2.9\% | 7.2\% | 3.5\% | 3.1\% | 13.8\% | 9.0\% | 16.6\% |
| Services-Providing Industries | 92 |  | 70.3\% | 68.3\% | 65.5\% | 68.0\% | 45.4\% | (D) | (D) | 66.1\% | (D) | 54.0\% |
| Transportation \& Utilities | 89 |  | 4.4\% | 4.9\% | 4.5\% | (D) | (D) | (D) | (D) | 17.0\% | (D) | 10.9\% |
| Utilities | 10 | 22 | 1.6\% | 1.6\% | 1.4\% | (D) | (D) | (D) | (D) | 0.0\% | (D) | 7.5\% |
| Transportation \& Warehousing | 36 | 48-49 | 2.7\% | 3.3\% | 3.1\% | 4.2\% | 2.1\% | 4.6\% | 18.3\% | 17.0\% | 4.2\% | 3.4\% |
| Trade | 88 |  | 11.7\% | 12.2\% | 20.2\% | (D) | (D) | (D) | 11.2\% | (D) | (D) | 8.1\% |
| Wholesale Trade | 34 | 42 | 6.0\% | 6.2\% | 13.3\% | (D) | (D) | (D) | 3.5\% | (D) | (D) | 2.0\% |
| Retail Trade | 35 | 44-45 | 5.8\% | 6.0\% | 6.9\% | 4.1\% | 5.4\% | 6.4\% | 7.6\% | 4.5\% | 8.6\% | 6.0\% |
| Information | 45 | 51 | 5.6\% | 2.5\% | 0.8\% | 0.7\% | 0.9\% | 0.6\% | (D) | (D) | 1.1\% | 1.3\% |
| Finance-Insurance-Real Estate, etc. | 50 |  | 22.0\% | 22.7\% | 22.5\% | 17.2\% | 18.7\% | 24.0\% | 24.0\% | 13.3\% | 18.8\% | 17.2\% |
| Finance \& Insurance | 51 | 52 | 8.6\% | 11.3\% | 11.3\% | 3.0\% | 5.5\% | 10.3\% | 10.2\% | 4.1\% | 5.8\% | 4.9\% |
| Real Estate-Rental-Leasing | 56 | 53 | 13.4\% | 11.4\% | 11.2\% | 14.2\% | 13.2\% | 13.7\% | 13.8\% | 9.2\% | 13.0\% | 12.3\% |
| Professional \& Business Services | 59 |  | 12.9\% | 11.6\% | 6.6\% | (D) | 6.1\% | 9.4\% | 7.6\% | 8.9\% | 6.0\% | 5.8\% |
| Professional-Scientific-Technical | 60 | 54 | 7.8\% | 5.2\% | 2.4\% | (D) | 2.4\% | 2.0\% | 4.0\% | 1.3\% | 1.9\% | (D) |
| Enterprise Management | 64 | 55 | 2.0\% | 3.4\% | 1.5\% | (D) | (D) | 4.3\% | 0.9\% | 3.4\% | 1.5\% | (D) |
| Administrative Support \& Waste Mgt. | 65 | 56 | 3.1\% | 3.0\% | 2.7\% | 1.0\% | (D) | 3.2\% | 2.7\% | 4.1\% | 2.6\% | 1.6\% |
| Education-Health Care-Social Assistance | 68 |  | 8.6\% | 9.5\% | 6.3\% | (D) | 4.8\% | 11.1\% | 4.6\% | 5.0\% | 8.8\% | 6.6\% |
| Educational Services | 69 | 61 | 1.2\% | 0.8\% | 0.3\% | (D) | 0.5\% | 1.0\% | 0.2\% | (D) | 0.3\% | 0.3\% |
| Health Care \& Social Assistance | 70 | 62 | 7.4\% | 8.7\% | 6.0\% | (D) | 4.3\% | 10.0\% | 4.3\% | (D) | 8.5\% | 6.3\% |
| Leisure \& Hospitality | 75 |  | 3.2\% | 3.0\% | 2.6\% | 1.4\% | 1.7\% | 3.1\% | 2.8\% | 2.1\% | 2.3\% | 1.6\% |
| Arts-Entertainment-Recreation | 76 | 71 | 0.8\% | 0.8\% | 0.5\% | 0.3\% | 0.4\% | 0.3\% | 0.5\% | 0.4\% | 0.3\% | 0.3\% |
| Accommodation \& Food Services | 79 | 72 | 2.4\% | 2.1\% | 2.2\% | 1.1\% | 1.3\% | 2.8\% | 2.3\% | 1.7\% | 2.0\% | 1.3\% |
| Other Services (exc. Government) | 82 | 81 | 2.0\% | 2.0\% | 1.9\% | 1.8\% | 2.4\% | 2.9\% | 2.3\% | (D) | 3.3\% | 2.5\% |
| Governments \& Their Enterprises | 83 | 92 | 12.8\% | 11.2\% | 8.2\% | 6.7\% | 11.6\% | 12.5\% | 7.6\% | 8.0\% | 13.5\% | 9.4\% |
| Not Disclosed by Most-Specific Industry* |  |  | 0.0\% | 0.0\% | 0.0\% | 37.6\% | 6.9\% | 8.7\% | 9.0\% | 20.2\% | 5.5\% | 4.2\% |

Notes and Abbreviations: ^ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p-part; 0.0\% may also mean less than $0.05 \%$. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: 2020 GDP by County and Sector (in millions)

| Industry Title | Codes |  | U.S. | Ohio | Crawford | Cuyahoga | Darke | Defiance | Delaware | Erie | Fairfield | Fayette |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | \$20,893,746 | \$677,561 | \$1,419.7 | \$98,829.2 | \$2,156.9 | \$1,696.2 | \$12,921.3 | \$4,133.6 | \$4,908.0 | \$2,342.5 |
| Private industries | 2 |  | \$18,223,132 | \$601,897 | \$1,269.8 | \$88,602.0 | \$1,981.0 | \$1,525.8 | \$12,058.4 | \$3,674.0 | \$4,276.8 | \$2,200.9 |
| Goods-producing Industries | 91 |  | \$3,524,445 | \$139,369 | \$362.0 | \$12,674.1 | \$768.2 | \$529.2 | \$1,676.9 | (D) | \$841.1 | \$1,033.0 |
| Natural Resources \& Mining | 87 |  | \$356,627 | \$7,982 | \$69.4 | \$104.5 | \$165.4 | \$47.5 | \$52.8 | (D) | \$34.9 | \$100.2 |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | \$174,527 | \$3,915 | \$65.6 | \$9.4 | \$164.9 | \$47.5 | \$50.2 | (D) | \$34.2 | \$100.2 |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | \$182,099 | \$4,066 | \$3.8 | \$95.1 | \$0.5 | \$0.0 | \$2.5 | \$25.9 | \$0.7 | \$0.0 |
| Construction | 11 | 23 | \$895,860 | \$26,084 | \$47.3 | \$2,290.5 | \$111.9 | \$42.2 | \$499.8 | \$106.9 | \$315.6 | \$38.1 |
| Manufacturing | 12 | 31-33 | \$2,271,960 | \$105,303 | \$245.2 | \$10,279.1 | \$490.9 | \$439.5 | \$1,124.3 | \$862.6 | \$490.6 | \$894.8 |
| Durable Goods Mfg. | 13 | 32p-33 | \$1,268,834 | \$57,594 | \$220.4 | \$6,956.0 | \$377.0 | \$406.7 | \$571.5 | \$356.0 | \$358.5 | \$73.4 |
| Non-durable Goods Mfg. | 25 | 31-32p | \$1,003,125 | \$47,709 | \$24.8 | \$3,323.1 | \$113.8 | \$32.8 | \$552.8 | \$506.5 | \$132.1 | \$821.4 |
| Services-Providing Industries | 92 |  | \$14,698,687 | \$462,529 | \$907.8 | \$75,927.9 | \$1,212.8 | \$996.6 | \$10,381.6 | (D) | \$3,435.6 | \$1,167.8 |
| Transportation \& Utilities | 89 |  | \$913,741 | \$33,023 | (D) | \$2,675.0 | \$139.8 | (D) | \$208.4 | (D) | \$141.7 | \$89.8 |
| Utilities | 10 | 22 | \$341,717 | \$10,907 | (D) | \$230.8 | \$14.9 | (D) | \$26.9 | \$12.4 | \$33.8 | \$0.6 |
| Transportation \& Warehousing | 36 | 48-49 | \$572,021 | \$22,116 | \$34.1 | \$2,444.2 | \$124.9 | \$72.5 | \$181.4 | (D) | \$107.8 | \$89.2 |
| Trade | 88 |  | \$2,445,476 | \$82,410 | (D) | \$11,178.7 | \$279.6 | (D) | \$1,647.0 | \$464.7 | \$604.6 | (D) |
| Wholesale Trade | 34 | 42 | \$1,243,274 | \$41,728 | (D) | \$6,863.0 | \$153.0 | (D) | \$681.3 | \$140.6 | \$193.8 | (D) |
| Retail Trade | 35 | 44-45 | \$1,202,203 | \$40,682 | \$94.0 | \$4,315.7 | \$126.6 | \$172.1 | \$965.7 | \$324.1 | \$410.9 | \$137.4 |
| Information | 45 | 51 | \$1,167,921 | \$17,117 | \$4.0 | \$3,128.1 | \$24.1 | \$34.9 | \$216.0 | \$93.3 | \$56.4 | \$3.6 |
| Finance-Insurance-Real Estate, etc. | 50 |  | \$4,592,105 | \$153,758 | \$347.3 | \$26,963.3 | \$423.1 | \$298.3 | \$3,851.1 | \$643.2 | \$1,312.1 | \$181.6 |
| Finance \& Insurance | 51 | 52 | \$1,787,746 | \$76,444 | \$160.7 | \$16,408.4 | \$176.5 | \$119.7 | \$2,122.8 | \$193.8 | \$276.9 | \$50.4 |
| Real Estate-Rental-Leasing | 56 | 53 | \$2,804,359 | \$77,313 | \$186.7 | \$10,554.9 | \$246.6 | \$178.6 | \$1,728.3 | \$449.4 | \$1,035.2 | \$131.2 |
| Professional \& Business Services | 59 |  | \$2,689,775 | \$78,334 | \$105.8 | \$15,133.0 | \$122.9 | \$108.5 | \$2,841.5 | \$176.7 | \$397.4 | (D) |
| Professional-Scientific-Technical | 60 | 54 | \$1,627,764 | \$35,484 | (D) | \$7,909.1 | \$44.6 | \$21.4 | \$996.6 | \$62.0 | \$141.4 | (D) |
| Enterprise Management | 64 | 55 | \$410,456 | \$22,808 | (D) | \$3,839.2 | \$35.3 | \$37.6 | \$1,502.1 | \$53.9 | \$53.4 | (D) |
| Administrative Support \& Waste Mgt. | 65 | 56 | \$651,554 | \$20,043 | \$28.8 | \$3,384.7 | \$43.0 | \$49.5 | \$342.9 | \$60.8 | \$202.6 | \$17.7 |
| Education-Health Care-Social Assistance | 68 |  | \$1,798,603 | \$64,348 | \$193.9 | \$11,917.6 | \$140.1 | \$146.0 | \$793.0 | \$350.6 | \$557.0 | \$51.4 |
| Educational Services | 69 | 61 | \$251,318 | \$5,693 | (D) | \$1,339.0 | \$3.1 | (D) | \$83.5 | \$10.8 | \$14.6 | (D) |
| Health Care \& Social Assistance | 70 | 62 | \$1,547,286 | \$58,655 | (D) | \$10,578.6 | \$137.0 | (D) | \$709.6 | \$339.8 | \$542.4 | (D) |
| Leisure \& Hospitality | 75 |  | \$672,078 | \$20,112 | \$34.4 | \$3,232.0 | \$35.7 | \$43.1 | \$554.3 | \$700.5 | \$201.1 | \$36.3 |
| Arts-Entertainment-Recreation | 76 | 71 | \$163,359 | \$5,688 | \$2.1 | \$1,373.1 | \$7.3 | \$4.5 | \$158.9 | \$529.0 | \$20.3 | \$2.8 |
| Accommodation \& Food Services | 79 | 72 | \$508,719 | \$14,424 | \$32.3 | \$1,858.9 | \$28.4 | \$38.6 | \$395.3 | \$171.5 | \$180.8 | \$33.5 |
| Other Services (exc. Government) | 82 | 81 | \$418,990 | \$13,429 | \$30.4 | \$1,700.3 | \$47.5 | \$36.2 | \$270.3 | \$69.9 | \$165.4 | \$29.1 |
| Governments \& Their Enterprises | 83 | 92 | \$2,670,611 | \$75,664 | \$149.9 | \$10,227.2 | \$175.9 | \$170.4 | \$862.9 | \$459.6 | \$631.2 | \$141.6 |
| Not Disclosed by Most-Specific Industry* |  |  | \$0 | \$0 | \$334.8 | \$0.0 | \$0.0 | \$231.0 | \$0.0 | \$167.3 | \$0.0 | \$672.3 |

Notes and Abbreviations: ^ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p - part; \$0.0 may also mean less than $\$ 500,000$. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: $\mathbf{2 0 2 0}$ GDP by County and Sector - Percentage Distribution

| Industry Title | Codes |  | U.S. | Ohio | Crawford | Cuyahoga | Darke | Defiance | Delaware | Erie | Fairfield | Fayette |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% |
| Private industries | 2 |  | 87.2\% | 88.8\% | 89.4\% | 89.7\% | 91.8\% | 90.0\% | 93.3\% | 88.9\% | 87.1\% | 94.0\% |
| Goods-producing Industries | 91 |  | 16.9\% | 20.6\% | 25.5\% | 12.8\% | 35.6\% | 31.2\% | 13.0\% | (D) | 17.1\% | 44.1\% |
| Natural Resources \& Mining | 87 |  | 1.7\% | 1.2\% | 4.9\% | 0.1\% | 7.7\% | 2.8\% | 0.4\% | (D) | 0.7\% | 4.3\% |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | 0.8\% | 0.6\% | 4.6\% | 0.0\% | 7.6\% | 2.8\% | 0.4\% | (D) | 0.7\% | 4.3\% |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | 0.9\% | 0.6\% | 0.3\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% |
| Construction | 11 | 23 | 4.3\% | 3.8\% | 3.3\% | 2.3\% | 5.2\% | 2.5\% | 3.9\% | 2.6\% | 6.4\% | 1.6\% |
| Manufacturing | 12 | 31-33 | 10.9\% | 15.5\% | 17.3\% | 10.4\% | 22.8\% | 25.9\% | 8.7\% | 20.9\% | 10.0\% | 38.2\% |
| Durable Goods Mfg. | 13 | 32p-33 | 6.1\% | 8.5\% | 15.5\% | 7.0\% | 17.5\% | 24.0\% | 4.4\% | 8.6\% | 7.3\% | 3.1\% |
| Non-durable Goods Mfg. | 25 | 31-32p | 4.8\% | 7.0\% | 1.7\% | 3.4\% | 5.3\% | 1.9\% | 4.3\% | 12.3\% | 2.7\% | 35.1\% |
| Services-Providing Industries | 92 |  | 70.3\% | 68.3\% | 63.9\% | 76.8\% | 56.2\% | 58.8\% | 80.3\% | (D) | 70.0\% | 49.9\% |
| Transportation \& Utilities | 89 |  | 4.4\% | 4.9\% | (D) | 2.7\% | 6.5\% | (D) | 1.6\% | (D) | 2.9\% | 3.8\% |
| Utilities | 10 | 22 | 1.6\% | 1.6\% | (D) | 0.2\% | 0.7\% | (D) | 0.2\% | 0.3\% | 0.7\% | 0.0\% |
| Transportation \& Warehousing | 36 | 48-49 | 2.7\% | 3.3\% | 2.4\% | 2.5\% | 5.8\% | 4.3\% | 1.4\% | (D) | 2.2\% | 3.8\% |
| Trade | 88 |  | 11.7\% | 12.2\% | (D) | 11.3\% | 13.0\% | (D) | 12.7\% | 11.2\% | 12.3\% | (D) |
| Wholesale Trade | 34 | 42 | 6.0\% | 6.2\% | (D) | 6.9\% | 7.1\% | (D) | 5.3\% | 3.4\% | 3.9\% | (D) |
| Retail Trade | 35 | 44-45 | 5.8\% | 6.0\% | 6.6\% | 4.4\% | 5.9\% | 10.1\% | 7.5\% | 7.8\% | 8.4\% | 5.9\% |
| Information | 45 | 51 | 5.6\% | 2.5\% | 0.3\% | 3.2\% | 1.1\% | 2.1\% | 1.7\% | 2.3\% | 1.1\% | 0.2\% |
| Finance-Insurance-Real Estate, etc. | 50 |  | 22.0\% | 22.7\% | 24.5\% | 27.3\% | 19.6\% | 17.6\% | 29.8\% | 15.6\% | 26.7\% | 7.8\% |
| Finance \& Insurance | 51 | 52 | 8.6\% | 11.3\% | 11.3\% | 16.6\% | 8.2\% | 7.1\% | 16.4\% | 4.7\% | 5.6\% | 2.2\% |
| Real Estate-Rental-Leasing | 56 | 53 | 13.4\% | 11.4\% | 13.1\% | 10.7\% | 11.4\% | 10.5\% | 13.4\% | 10.9\% | 21.1\% | 5.6\% |
| Professional \& Business Services | 59 |  | 12.9\% | 11.6\% | 7.5\% | 15.3\% | 5.7\% | 6.4\% | 22.0\% | 4.3\% | 8.1\% | (D) |
| Professional-Scientific-Technical | 60 | 54 | 7.8\% | 5.2\% | (D) | 8.0\% | 2.1\% | 1.3\% | 7.7\% | 1.5\% | 2.9\% | (D) |
| Enterprise Management | 64 | 55 | 2.0\% | 3.4\% | (D) | 3.9\% | 1.6\% | 2.2\% | 11.6\% | 1.3\% | 1.1\% | (D) |
| Administrative Support \& Waste Mgt. | 65 | 56 | 3.1\% | 3.0\% | 2.0\% | 3.4\% | 2.0\% | 2.9\% | 2.7\% | 1.5\% | 4.1\% | 0.8\% |
| Education-Health Care-Social Assistance | 68 |  | 8.6\% | 9.5\% | 13.7\% | 12.1\% | 6.5\% | 8.6\% | 6.1\% | 8.5\% | 11.3\% | 2.2\% |
| Educational Services | 69 | 61 | 1.2\% | 0.8\% | (D) | 1.4\% | 0.1\% | (D) | 0.6\% | 0.3\% | 0.3\% | (D) |
| Health Care \& Social Assistance | 70 | 62 | 7.4\% | 8.7\% | (D) | 10.7\% | 6.4\% | (D) | 5.5\% | 8.2\% | 11.1\% | (D) |
| Leisure \& Hospitality | 75 |  | 3.2\% | 3.0\% | 2.4\% | 3.3\% | 1.7\% | 2.5\% | 4.3\% | 16.9\% | 4.1\% | 1.5\% |
| Arts-Entertainment-Recreation | 76 | 71 | 0.8\% | 0.8\% | 0.1\% | 1.4\% | 0.3\% | 0.3\% | 1.2\% | 12.8\% | 0.4\% | 0.1\% |
| Accommodation \& Food Services | 79 | 72 | 2.4\% | 2.1\% | 2.3\% | 1.9\% | 1.3\% | 2.3\% | 3.1\% | 4.1\% | 3.7\% | 1.4\% |
| Other Services (exc. Government) | 82 | 81 | 2.0\% | 2.0\% | 2.1\% | 1.7\% | 2.2\% | 2.1\% | 2.1\% | 1.7\% | 3.4\% | 1.2\% |
| Governments \& Their Enterprises | 83 | 92 | 12.8\% | 11.2\% | 10.6\% | 10.3\% | 8.2\% | 10.0\% | 6.7\% | 11.1\% | 12.9\% | 6.0\% |
| Not Disclosed by Most-Specific Industry* |  |  | 0.0\% | 0.0\% | 23.6\% | 0.0\% | 0.0\% | 13.6\% | 0.0\% | 4.0\% | 0.0\% | 28.7\% |

Notes and Abbreviations: ${ }^{\wedge}$ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p-part; 0.0\% may also mean less than $0.05 \%$. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: 2020 GDP by County and Sector (in millions)

| Industry Title | Codes |  | U.S. | Ohio | Franklin | Fulton | Gallia | Geauga | Greene | Guernsey | Hamilton | Hancock |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | \$20,893,746 | \$677,561 | \$101,208.3 | \$2,096.2 | \$2,179.4 | \$4,483.3 | \$10,545.5 | \$2,022.1 | \$78,807.4 | \$5,473.0 |
| Private industries | 2 |  | \$18,223,132 | \$601,897 | \$85,698.8 | \$1,904.3 | \$2,040.0 | \$4,170.3 | \$6,194.5 | \$1,835.6 | \$72,965.8 | \$5,187.9 |
| Goods-producing Industries | 91 |  | \$3,524,445 | \$139,369 | \$10,243.2 | \$946.3 | \$117.8 | (D) | (D) | \$929.9 | \$13,880.6 | \$1,664.5 |
| Natural Resources \& Mining | 87 |  | \$356,627 | \$7,982 | \$61.8 | \$64.4 | \$5.2 | (D) | (D) | \$224.6 | \$50.6 | \$76.9 |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | \$174,527 | \$3,915 | \$28.9 | \$62.2 | \$3.6 | (D) | (D) | \$6.1 | \$14.7 | \$74.3 |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | \$182,099 | \$4,066 | \$33.0 | \$2.2 | \$1.6 | \$13.1 | \$29.9 | \$218.5 | \$35.8 | \$2.6 |
| Construction | 11 | 23 | \$895,860 | \$26,084 | \$3,661.6 | \$151.4 | \$60.2 | \$452.0 | \$240.3 | \$72.6 | \$2,459.2 | \$95.1 |
| Manufacturing | 12 | 31-33 | \$2,271,960 | \$105,303 | \$6,519.7 | \$730.4 | \$52.3 | \$969.5 | \$600.7 | \$632.7 | \$11,370.8 | \$1,492.5 |
| Durable Goods Mfg. | 13 | 32p-33 | \$1,268,834 | \$57,594 | \$2,671.9 | \$602.8 | \$45.9 | \$387.8 | \$514.3 | \$192.6 | \$4,998.5 | \$847.7 |
| Non-durable Goods Mfg. | 25 | 31-32p | \$1,003,125 | \$47,709 | \$3,847.8 | \$127.6 | \$6.4 | \$581.7 | \$86.5 | \$440.1 | \$6,372.3 | \$644.8 |
| Services-Providing Industries | 92 |  | \$14,698,687 | \$462,529 | \$75,455.6 | \$958.0 | \$1,922.2 | (D) | (D) | \$905.7 | \$59,085.2 | \$3,523.4 |
| Transportation \& Utilities | 89 |  | \$913,741 | \$33,023 | \$5,113.6 | (D) | (D) | (D) | (D) | \$86.6 | \$1,747.8 | \$703.4 |
| Utilities | 10 | 22 | \$341,717 | \$10,907 | \$629.6 | \$8.7 | (D) | \$2.5 | \$11.8 | \$10.0 | \$664.6 | \$17.7 |
| Transportation \& Warehousing | 36 | 48-49 | \$572,021 | \$22,116 | \$4,484.0 | (D) | \$36.7 | (D) | (D) | \$76.5 | \$1,083.2 | \$685.7 |
| Trade | 88 |  | \$2,445,476 | \$82,410 | \$11,841.8 | \$228.3 | \$99.6 | \$684.5 | \$876.1 | \$198.7 | \$8,147.1 | \$579.4 |
| Wholesale Trade | 34 | 42 | \$1,243,274 | \$41,728 | \$6,429.5 | \$114.0 | \$11.5 | \$322.0 | \$222.1 | \$84.2 | \$5,058.9 | \$300.4 |
| Retail Trade | 35 | 44-45 | \$1,202,203 | \$40,682 | \$5,412.4 | \$114.3 | \$88.1 | \$362.5 | \$654.0 | \$114.5 | \$3,088.2 | \$279.0 |
| Information | 45 | 51 | \$1,167,921 | \$17,117 | \$3,988.2 | \$24.3 | \$6.5 | \$54.4 | \$98.9 | \$21.6 | \$2,248.1 | \$58.8 |
| Finance-Insurance-Real Estate, etc. | 50 |  | \$4,592,105 | \$153,758 | \$25,898.2 | \$341.0 | \$235.2 | \$872.3 | \$1,344.7 | \$276.9 | \$23,350.3 | \$700.2 |
| Finance \& Insurance | 51 | 52 | \$1,787,746 | \$76,444 | \$15,286.4 | \$95.9 | \$79.9 | \$310.7 | \$358.7 | \$95.5 | \$15,884.6 | \$186.0 |
| Real Estate-Rental-Leasing | 56 | 53 | \$2,804,359 | \$77,313 | \$10,611.8 | \$245.1 | \$155.3 | \$561.5 | \$986.1 | \$181.5 | \$7,465.7 | \$514.2 |
| Professional \& Business Services | 59 |  | \$2,689,775 | \$78,334 | \$14,405.5 | (D) | (D) | \$436.5 | \$1,791.7 | \$90.1 | \$11,948.1 | \$782.5 |
| Professional-Scientific-Technical | 60 | 54 | \$1,627,764 | \$35,484 | \$7,257.1 | (D) | \$9.7 | \$191.2 | \$1,531.2 | \$40.1 | \$5,735.7 | \$164.1 |
| Enterprise Management | 64 | 55 | \$410,456 | \$22,808 | \$3,700.2 | (D) | (D) | \$58.3 | \$135.5 | (D) | \$3,924.3 | \$511.8 |
| Administrative Support \& Waste Mgt. | 65 | 56 | \$651,554 | \$20,043 | \$3,448.2 | \$23.5 | (D) | \$186.9 | \$125.0 | (D) | \$2,288.1 | \$106.7 |
| Education-Health Care-Social Assistance | 68 |  | \$1,798,603 | \$64,348 | \$9,295.9 | (D) | (D) | \$322.6 | \$643.6 | \$144.7 | \$7,955.8 | \$473.2 |
| Educational Services | 69 | 61 | \$251,318 | \$5,693 | \$879.7 | (D) | (D) | \$40.9 | \$134.1 | \$2.5 | \$632.8 | \$65.5 |
| Health Care \& Social Assistance | 70 | 62 | \$1,547,286 | \$58,655 | \$8,416.3 | (D) | (D) | \$281.7 | \$509.5 | \$142.2 | \$7,323.1 | \$407.6 |
| Leisure \& Hospitality | 75 |  | \$672,078 | \$20,112 | \$2,872.6 | \$39.3 | \$27.6 | \$109.2 | \$271.1 | \$56.5 | \$2,507.5 | \$128.4 |
| Arts-Entertainment-Recreation | 76 | 71 | \$163,359 | \$5,688 | \$724.7 | \$10.2 | \$1.6 | \$37.6 | \$24.5 | \$2.8 | \$1,073.4 | \$11.5 |
| Accommodation \& Food Services | 79 | 72 | \$508,719 | \$14,424 | \$2,147.9 | \$29.1 | \$25.9 | \$71.5 | \$246.6 | \$53.7 | \$1,434.1 | \$116.9 |
| Other Services (exc. Government) | 82 | 81 | \$418,990 | \$13,429 | \$2,039.6 | \$41.7 | \$26.1 | \$124.0 | \$143.0 | \$30.5 | \$1,180.4 | \$97.4 |
| Governments \& Their Enterprises | 83 | 92 | \$2,670,611 | \$75,664 | \$15,509.6 | \$192.0 | \$139.4 | \$313.0 | \$4,351.0 | \$186.5 | \$5,841.6 | \$285.0 |
| Not Disclosed by Most-Specific Industry* |  |  | \$0 | \$0 | \$0.0 | \$251.2 | \$1,480.8 | \$129.9 | \$142.7 | \$50.1 | \$0.0 | \$0.0 |

Notes and Abbreviations: ${ }^{\wedge}$ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p - part; \$0.0 may also mean less than $\$ 500,000$. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: $\mathbf{2 0 2 0}$ GDP by County and Sector - Percentage Distribution

| Industry Title | Codes |  | U.S. | Ohio | Franklin | Fulton | Gallia | Geauga | Greene | Guernsey | Hamilton | Hancock |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% |
| Private industries | 2 |  | 87.2\% | 88.8\% | 84.7\% | 90.8\% | 93.6\% | 93.0\% | 58.7\% | 90.8\% | 92.6\% | 94.8\% |
| Goods-producing Industries | 91 |  | 16.9\% | 20.6\% | 10.1\% | 45.1\% | 5.4\% | (D) | (D) | 46.0\% | 17.6\% | 30.4\% |
| Natural Resources \& Mining | 87 |  | 1.7\% | 1.2\% | 0.1\% | 3.1\% | 0.2\% | (D) | (D) | 11.1\% | 0.1\% | 1.4\% |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | 0.8\% | 0.6\% | 0.0\% | 3.0\% | 0.2\% | (D) | (D) | 0.3\% | 0.0\% | 1.4\% |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | 0.9\% | 0.6\% | 0.0\% | 0.1\% | 0.1\% | 0.3\% | 0.3\% | 10.8\% | 0.0\% | 0.0\% |
| Construction | 11 | 23 | 4.3\% | 3.8\% | 3.6\% | 7.2\% | 2.8\% | 10.1\% | 2.3\% | 3.6\% | 3.1\% | 1.7\% |
| Manufacturing |  | 31-33 | 10.9\% | 15.5\% | 6.4\% | 34.8\% | 2.4\% | 21.6\% | 5.7\% | 31.3\% | 14.4\% | 27.3\% |
| Durable Goods Mfg. |  | 32p-33 | 6.1\% | 8.5\% | 2.6\% | 28.8\% | 2.1\% | 8.6\% | 4.9\% | 9.5\% | 6.3\% | 15.5\% |
| Non-durable Goods Mfg. |  | 31-32p | 4.8\% | 7.0\% | 3.8\% | 6.1\% | 0.3\% | 13.0\% | 0.8\% | 21.8\% | 8.1\% | 11.8\% |
| Services-Providing Industries | 92 |  | 70.3\% | 68.3\% | 74.6\% | 45.7\% | 88.2\% | (D) | (D) | 44.8\% | 75.0\% | 64.4\% |
| Transportation \& Utilities | 89 |  | 4.4\% | 4.9\% | 5.1\% | (D) | (D) | (D) | (D) | 4.3\% | 2.2\% | 12.9\% |
| Utilities | 10 | 22 | 1.6\% | 1.6\% | 0.6\% | 0.4\% | (D) | 0.1\% | 0.1\% | 0.5\% | 0.8\% | 0.3\% |
| Transportation \& Warehousing | 36 | 48-49 | 2.7\% | 3.3\% | 4.4\% | (D) | 1.7\% | (D) | (D) | 3.8\% | 1.4\% | 12.5\% |
| Trade | 88 |  | 11.7\% | 12.2\% | 11.7\% | 10.9\% | 4.6\% | 15.3\% | 8.3\% | 9.8\% | 10.3\% | 10.6\% |
| Wholesale Trade | 34 | 42 | 6.0\% | 6.2\% | 6.4\% | 5.4\% | 0.5\% | 7.2\% | 2.1\% | 4.2\% | 6.4\% | 5.5\% |
| Retail Trade | 35 | 44-45 | 5.8\% | 6.0\% | 5.3\% | 5.5\% | 4.0\% | 8.1\% | 6.2\% | 5.7\% | 3.9\% | 5.1\% |
| Information | 45 | 51 | 5.6\% | 2.5\% | 3.9\% | 1.2\% | 0.3\% | 1.2\% | 0.9\% | 1.1\% | 2.9\% | 1.1\% |
| Finance-Insurance-Real Estate, etc. | 50 |  | 22.0\% | 22.7\% | 25.6\% | 16.3\% | 10.8\% | 19.5\% | 12.8\% | 13.7\% | 29.6\% | 12.8\% |
| Finance \& Insurance | 51 | 52 | 8.6\% | 11.3\% | 15.1\% | 4.6\% | 3.7\% | 6.9\% | 3.4\% | 4.7\% | 20.2\% | 3.4\% |
| Real Estate-Rental-Leasing | 56 | 53 | 13.4\% | 11.4\% | 10.5\% | 11.7\% | 7.1\% | 12.5\% | 9.4\% | 9.0\% | 9.5\% | 9.4\% |
| Professional \& Business Services | 59 |  | 12.9\% | 11.6\% | 14.2\% | (D) | (D) | 9.7\% | 17.0\% | 4.5\% | 15.2\% | 14.3\% |
| Professional-Scientific-Technical | 60 | 54 | 7.8\% | 5.2\% | 7.2\% | (D) | 0.4\% | 4.3\% | 14.5\% | 2.0\% | 7.3\% | 3.0\% |
| Enterprise Management | 64 | 55 | 2.0\% | 3.4\% | 3.7\% | (D) | (D) | 1.3\% | 1.3\% | (D) | 5.0\% | 9.4\% |
| Administrative Support \& Waste Mgt. | 65 | 56 | 3.1\% | 3.0\% | 3.4\% | 1.1\% | (D) | 4.2\% | 1.2\% | (D) | 2.9\% | 1.9\% |
| Education-Health Care-Social Assistance | 68 |  | 8.6\% | 9.5\% | 9.2\% | (D) | (D) | 7.2\% | 6.1\% | 7.2\% | 10.1\% | 8.6\% |
| Educational Services | 69 | 61 | 1.2\% | 0.8\% | 0.9\% | (D) | (D) | 0.9\% | 1.3\% | 0.1\% | 0.8\% | 1.2\% |
| Health Care \& Social Assistance | 70 | 62 | 7.4\% | 8.7\% | 8.3\% | (D) | (D) | 6.3\% | 4.8\% | 7.0\% | 9.3\% | 7.4\% |
| Leisure \& Hospitality | 75 |  | 3.2\% | 3.0\% | 2.8\% | 1.9\% | 1.3\% | 2.4\% | 2.6\% | 2.8\% | 3.2\% | 2.3\% |
| Arts-Entertainment-Recreation | 76 | 71 | 0.8\% | 0.8\% | 0.7\% | 0.5\% | 0.1\% | 0.8\% | 0.2\% | 0.1\% | 1.4\% | 0.2\% |
| Accommodation \& Food Services | 79 | 72 | 2.4\% | 2.1\% | 2.1\% | 1.4\% | 1.2\% | 1.6\% | 2.3\% | 2.7\% | 1.8\% | 2.1\% |
| Other Services (exc. Government) | 82 | 81 | 2.0\% | 2.0\% | 2.0\% | 2.0\% | 1.2\% | 2.8\% | 1.4\% | 1.5\% | 1.5\% | 1.8\% |
| Governments \& Their Enterprises | 83 | 92 | 12.8\% | 11.2\% | 15.3\% | 9.2\% | 6.4\% | 7.0\% | 41.3\% | 9.2\% | 7.4\% | 5.2\% |
| Not Disclosed by Most-Specific Industry* |  |  | 0.0\% | 0.0\% | 0.0\% | 12.0\% | 67.9\% | 2.9\% | 1.4\% | 2.5\% | 0.0\% | 0.0\% |

Notes and Abbreviations: ${ }^{\wedge}$ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p - part; 0.0\% may also mean less than $0.05 \%$. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: 2020 GDP by County and Sector (in millions)

| Industry Title | Codes |  | U.S. | Ohio | Hardin | Harrison | Henry | Highland | Hocking | Holmes | Huron | Jackson |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | \$20,893,746 | \$677,561 | \$951.7 | \$954.7 | \$1,615.8 | \$1,448.5 | \$667.3 | \$2,544.1 | \$2,414.6 | \$1,063.3 |
| Private industries | 2 |  | \$18,223,132 | \$601,897 | \$847.4 | \$895.6 | \$1,467.3 | \$1,266.0 | \$533.9 | \$2,413.0 | \$2,205.0 | \$936.3 |
| Goods-producing Industries | 91 |  | \$3,524,445 | \$139,369 | \$303.3 | \$572.7 | \$935.7 | \$401.3 | \$135.5 | \$1,340.1 | \$942.8 | \$425.5 |
| Natural Resources \& Mining | 87 |  | \$356,627 | \$7,982 | \$58.5 | \$390.8 | \$63.5 | \$61.9 | \$6.9 | \$115.1 | \$77.8 | \$15.5 |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | \$174,527 | \$3,915 | \$55.2 | \$3.2 | \$63.2 | \$57.0 | \$1.2 | \$108.4 | \$75.5 | \$13.3 |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | \$182,099 | \$4,066 | \$3.3 | \$387.6 | \$0.3 | \$4.9 | \$5.7 | \$6.8 | \$2.3 | \$2.2 |
| Construction | 11 | 23 | \$895,860 | \$26,084 | \$18.1 | \$28.0 | \$81.8 | \$76.3 | \$48.0 | \$377.9 | \$178.7 | \$68.5 |
| Manufacturing | 12 | 31-33 | \$2,271,960 | \$105,303 | \$226.7 | \$153.9 | \$790.4 | \$263.2 | \$80.6 | \$847.0 | \$686.3 | \$341.5 |
| Durable Goods Mfg. | 13 | 32p-33 | \$1,268,834 | \$57,594 | \$101.5 | (D) | \$144.1 | \$233.3 | \$56.5 | \$535.3 | \$241.4 | \$38.7 |
| Non-durable Goods Mfg. | 25 | 31-32p | \$1,003,125 | \$47,709 | \$125.2 | (D) | \$646.3 | \$29.9 | \$24.1 | \$311.8 | \$444.9 | \$302.8 |
| Services-Providing Industries | 92 |  | \$14,698,687 | \$462,529 | \$544.1 | \$322.9 | \$531.6 | \$864.6 | \$398.4 | \$1,072.9 | \$1,262.2 | \$510.8 |
| Transportation \& Utilities | 89 |  | \$913,741 | \$33,023 | \$46.8 | \$64.6 | \$52.5 | \$37.1 | (D) | \$126.5 | \$208.8 | \$34.4 |
| Utilities | 10 | 22 | \$341,717 | \$10,907 | \$19.8 | \$12.3 | \$3.2 | \$7.4 | \$0.6 | \$15.0 | \$6.3 | \$6.8 |
| Transportation \& Warehousing | 36 | 48-49 | \$572,021 | \$22,116 | \$27.0 | \$52.3 | \$49.3 | \$29.8 | (D) | \$111.5 | \$202.5 | \$27.6 |
| Trade | 88 |  | \$2,445,476 | \$82,410 | \$106.8 | (D) | \$118.4 | \$179.3 | \$66.7 | \$405.5 | (D) | \$110.2 |
| Wholesale Trade | 34 | 42 | \$1,243,274 | \$41,728 | \$49.4 | (D) | \$45.6 | \$40.1 | \$8.2 | \$130.7 | (D) | \$21.9 |
| Retail Trade | 35 | 44-45 | \$1,202,203 | \$40,682 | \$57.4 | \$18.4 | \$72.8 | \$139.3 | \$58.5 | \$274.8 | \$148.3 | \$88.3 |
| Information | 45 | 51 | \$1,167,921 | \$17,117 | \$5.4 | \$7.5 | \$18.2 | \$7.4 | \$6.1 | \$12.6 | \$32.1 | \$4.9 |
| Finance-Insurance-Real Estate, etc. | 50 |  | \$4,592,105 | \$153,758 | \$184.3 | \$127.7 | \$208.0 | \$433.2 | \$166.4 | \$274.8 | \$381.6 | \$181.0 |
| Finance \& Insurance | 51 | 52 | \$1,787,746 | \$76,444 | \$55.5 | \$22.3 | \$76.6 | \$263.9 | \$39.7 | \$119.7 | \$123.0 | \$51.6 |
| Real Estate-Rental-Leasing | 56 | 53 | \$2,804,359 | \$77,313 | \$128.7 | \$105.4 | \$131.4 | \$169.4 | \$126.8 | \$155.1 | \$258.6 | \$129.4 |
| Professional \& Business Services | 59 |  | \$2,689,775 | \$78,334 | \$57.3 | (D) | \$25.0 | \$69.9 | (D) | \$94.5 | (D) | \$41.4 |
| Professional-Scientific-Technical | 60 | 54 | \$1,627,764 | \$35,484 | \$12.4 | \$7.2 | \$12.7 | (D) | (D) | \$36.1 | (D) | \$12.5 |
| Enterprise Management | 64 | 55 | \$410,456 | \$22,808 | \$34.1 | (D) | \$0.0 | (D) | (D) | (D) | (D) | \$1.8 |
| Administrative Support \& Waste Mgt. | 65 | 56 | \$651,554 | \$20,043 | \$10.8 | (D) | \$12.3 | \$22.8 | \$12.5 | (D) | \$26.5 | \$27.1 |
| Education-Health Care-Social Assistance | 68 |  | \$1,798,603 | \$64,348 | \$103.2 | \$21.3 | \$67.1 | \$77.7 | \$36.1 | \$53.6 | \$185.2 | \$90.5 |
| Educational Services | 69 | 61 | \$251,318 | \$5,693 | (D) | \$0.2 | \$1.3 | \$1.7 | \$2.0 | (D) | \$8.9 | (D) |
| Health Care \& Social Assistance | 70 | 62 | \$1,547,286 | \$58,655 | (D) | \$21.1 | \$65.7 | \$76.0 | \$34.1 | (D) | \$176.3 | (D) |
| Leisure \& Hospitality | 75 |  | \$672,078 | \$20,112 | \$18.4 | \$6.1 | \$16.9 | \$26.4 | \$38.6 | \$46.2 | \$52.2 | \$28.8 |
| Arts-Entertainment-Recreation | 76 | 71 | \$163,359 | \$5,688 | \$1.4 | \$0.7 | \$1.6 | \$2.6 | \$2.2 | \$3.6 | \$4.4 | \$1.5 |
| Accommodation \& Food Services | 79 | 72 | \$508,719 | \$14,424 | \$17.1 | \$5.4 | \$15.4 | \$23.8 | \$36.4 | \$42.7 | \$47.9 | \$27.3 |
| Other Services (exc. Government) | 82 | 81 | \$418,990 | \$13,429 | \$21.8 | \$15.4 | \$25.5 | \$33.5 | \$22.1 | \$59.2 | \$48.7 | \$19.6 |
| Governments \& Their Enterprises | 83 | 92 | \$2,670,611 | \$75,664 | \$104.3 | \$59.1 | \$148.5 | \$182.6 | \$133.4 | \$131.1 | \$209.6 | \$127.0 |
| Not Disclosed by Most-Specific Industry* |  |  | \$0 | \$0 | \$103.2 | \$208.5 | \$0.0 | \$47.1 | \$49.2 | \$112.0 | \$178.8 | \$90.5 |

Notes and Abbreviations: ^ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p - part; \$0.0 may also mean less than $\$ 500,000$. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: $\mathbf{2 0 2 0}$ GDP by County and Sector - Percentage Distribution

| Industry Title | Codes |  | U.S. | Ohio | Hardin | Harrison | Henry | Highland | Hocking | Holmes | Huron | Jackson |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% |
| Private industries | 2 |  | 87.2\% | 88.8\% | 89.0\% | 93.8\% | 90.8\% | 87.4\% | 80.0\% | 94.8\% | 91.3\% | 88.1\% |
| Goods-producing Industries | 91 |  | 16.9\% | 20.6\% | 31.9\% | 60.0\% | 57.9\% | 27.7\% | 20.3\% | 52.7\% | 39.0\% | 40.0\% |
| Natural Resources \& Mining | 87 |  | 1.7\% | 1.2\% | 6.1\% | 40.9\% | 3.9\% | 4.3\% | 1.0\% | 4.5\% | 3.2\% | 1.5\% |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | 0.8\% | 0.6\% | 5.8\% | 0.3\% | 3.9\% | 3.9\% | 0.2\% | 4.3\% | 3.1\% | 1.2\% |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | 0.9\% | 0.6\% | 0.3\% | 40.6\% | 0.0\% | 0.3\% | 0.9\% | 0.3\% | 0.1\% | 0.2\% |
| Construction | 11 | 23 | 4.3\% | 3.8\% | 1.9\% | 2.9\% | 5.1\% | 5.3\% | 7.2\% | 14.9\% | 7.4\% | 6.4\% |
| Manufacturing | 12 | 31-33 | 10.9\% | 15.5\% | 23.8\% | 16.1\% | 48.9\% | 18.2\% | 12.1\% | 33.3\% | 28.4\% | 32.1\% |
| Durable Goods Mfg. | 13 | 32p-33 | 6.1\% | 8.5\% | 10.7\% | (D) | 8.9\% | 16.1\% | 8.5\% | 21.0\% | 10.0\% | 3.6\% |
| Non-durable Goods Mfg. | 25 | 31-32p | 4.8\% | 7.0\% | 13.2\% | (D) | 40.0\% | 2.1\% | 3.6\% | 12.3\% | 18.4\% | 28.5\% |
| Services-Providing Industries | 92 |  | 70.3\% | 68.3\% | 57.2\% | 33.8\% | 32.9\% | 59.7\% | 59.7\% | 42.2\% | 52.3\% | 48.0\% |
| Transportation \& Utilities | 89 |  | 4.4\% | 4.9\% | 4.9\% | 6.8\% | 3.3\% | 2.6\% | (D) | 5.0\% | 8.6\% | 3.2\% |
| Utilities | 10 | 22 | 1.6\% | 1.6\% | 2.1\% | 1.3\% | 0.2\% | 0.5\% | 0.1\% | 0.6\% | 0.3\% | 0.6\% |
| Transportation \& Warehousing | 36 | 48-49 | 2.7\% | 3.3\% | 2.8\% | 5.5\% | 3.1\% | 2.1\% | (D) | 4.4\% | 8.4\% | 2.6\% |
| Trade | 88 |  | 11.7\% | 12.2\% | 11.2\% | (D) | 7.3\% | 12.4\% | 10.0\% | 15.9\% | (D) | 10.4\% |
| Wholesale Trade | 34 | 42 | 6.0\% | 6.2\% | 5.2\% | (D) | 2.8\% | 2.8\% | 1.2\% | 5.1\% | (D) | 2.1\% |
| Retail Trade | 35 | 44-45 | 5.8\% | 6.0\% | 6.0\% | 1.9\% | 4.5\% | 9.6\% | 8.8\% | 10.8\% | 6.1\% | 8.3\% |
| Information | 45 | 51 | 5.6\% | 2.5\% | 0.6\% | 0.8\% | 1.1\% | 0.5\% | 0.9\% | 0.5\% | 1.3\% | 0.5\% |
| Finance-Insurance-Real Estate, etc. | 50 |  | 22.0\% | 22.7\% | 19.4\% | 13.4\% | 12.9\% | 29.9\% | 24.9\% | 10.8\% | 15.8\% | 17.0\% |
| Finance \& Insurance | 51 | 52 | 8.6\% | 11.3\% | 5.8\% | 2.3\% | 4.7\% | 18.2\% | 5.9\% | 4.7\% | 5.1\% | 4.8\% |
| Real Estate-Rental-Leasing | 56 | 53 | 13.4\% | 11.4\% | 13.5\% | 11.0\% | 8.1\% | 11.7\% | 19.0\% | 6.1\% | 10.7\% | 12.2\% |
| Professional \& Business Services | 59 |  | 12.9\% | 11.6\% | 6.0\% | (D) | 1.5\% | 4.8\% | (D) | 3.7\% | (D) | 3.9\% |
| Professional-Scientific-Technical | 60 | 54 | 7.8\% | 5.2\% | 1.3\% | 0.7\% | 0.8\% | (D) | (D) | 1.4\% | (D) | 1.2\% |
| Enterprise Management | 64 | 55 | 2.0\% | 3.4\% | 3.6\% | (D) | 0.0\% | (D) | (D) | (D) | (D) | 0.2\% |
| Administrative Support \& Waste Mgt. | 65 | 56 | 3.1\% | 3.0\% | 1.1\% | (D) | 0.8\% | 1.6\% | 1.9\% | (D) | 1.1\% | 2.5\% |
| Education-Health Care-Social Assistance | 68 |  | 8.6\% | 9.5\% | 10.8\% | 2.2\% | 4.1\% | 5.4\% | 5.4\% | 2.1\% | 7.7\% | 8.5\% |
| Educational Services | 69 | 61 | 1.2\% | 0.8\% | (D) | 0.0\% | 0.1\% | 0.1\% | 0.3\% | (D) | 0.4\% | (D) |
| Health Care \& Social Assistance | 70 | 62 | 7.4\% | 8.7\% | (D) | 2.2\% | 4.1\% | 5.2\% | 5.1\% | (D) | 7.3\% | (D) |
| Leisure \& Hospitality | 75 |  | 3.2\% | 3.0\% | 1.9\% | 0.6\% | 1.0\% | 1.8\% | 5.8\% | 1.8\% | 2.2\% | 2.7\% |
| Arts-Entertainment-Recreation | 76 | 71 | 0.8\% | 0.8\% | 0.1\% | 0.1\% | 0.1\% | 0.2\% | 0.3\% | 0.1\% | 0.2\% | 0.1\% |
| Accommodation \& Food Services | 79 | 72 | 2.4\% | 2.1\% | 1.8\% | 0.6\% | 1.0\% | 1.6\% | 5.5\% | 1.7\% | 2.0\% | 2.6\% |
| Other Services (exc. Government) | 82 | 81 | 2.0\% | 2.0\% | 2.3\% | 1.6\% | 1.6\% | 2.3\% | 3.3\% | 2.3\% | 2.0\% | 1.8\% |
| Governments \& Their Enterprises | 83 | 92 | 12.8\% | 11.2\% | 11.0\% | 6.2\% | 9.2\% | 12.6\% | 20.0\% | 5.2\% | 8.7\% | 11.9\% |
| Not Disclosed by Most-Specific Industry* |  |  | 0.0\% | 0.0\% | 10.8\% | 21.8\% | 0.0\% | 3.3\% | 7.4\% | 4.4\% | 7.4\% | 8.5\% |

Notes and Abbreviations: ^ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p-part; 0.0\% may also mean less than 0.05\%. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: 2020 GDP by County and Sector (in millions)

| Industry Title |  | des | U.S. | Ohio | Jefferson^ | Knox | Lake | Lawrence^ | Licking | Logan | Lorain | Lucas |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | \$20,893,746 | \$677,561 | \$3,434.6 | \$2,181.1 | \$11,768.3 | \$1,934.0 | \$7,351.3 | \$2,013.4 | \$11,031.9 | \$24,725.6 |
| Private industries | 2 |  | \$18,223,132 | \$601,897 | \$3,152.0 | \$1,957.9 | \$10,783.3 | \$1,711.4 | \$6,571.0 | \$1,830.8 | \$9,555.8 | \$21,865.7 |
| Goods-producing Industries | 91 |  | \$3,524,445 | \$139,369 | \$745.4 | (D) | \$3,725.1 | \$171.6 | \$1,414.1 | \$771.6 | \$2,768.1 | \$5,739.3 |
| Natural Resources \& Mining | 87 |  | \$356,627 | \$7,982 | \$459.3 | (D) | \$116.7 | (D) | \$27.6 | \$75.9 | \$30.6 | \$61.2 |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | \$174,527 | \$3,915 | \$2.1 | (D) | \$57.5 | (D) | \$20.8 | \$66.3 | \$29.9 | \$18.8 |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | \$182,099 | \$4,066 | \$457.2 | \$15.2 | \$59.2 | \$0.1 | \$6.8 | \$9.6 | \$0.7 | \$42.4 |
| Construction | 11 | 23 | \$895,860 | \$26,084 | \$80.5 | \$180.2 | \$413.4 | (D) | \$393.3 | \$71.2 | \$420.9 | \$833.1 |
| Manufacturing | 12 | 31-33 | \$2,271,960 | \$105,303 | \$205.6 | \$491.0 | \$3,195.0 | \$94.8 | \$993.2 | \$624.5 | \$2,316.5 | \$4,845.0 |
| Durable Goods Mfg. | 13 | 32p-33 | \$1,268,834 | \$57,594 | \$181.5 | \$407.8 | \$1,712.5 | \$65.8 | \$474.2 | \$532.1 | \$1,602.8 | \$2,715.9 |
| Non-durable Goods Mfg. | 25 | 31-32p | \$1,003,125 | \$47,709 | \$24.1 | \$83.3 | \$1,482.5 | \$29.0 | \$518.9 | \$92.4 | \$713.7 | \$2,129.1 |
| Services-Providing Industries | 92 |  | \$14,698,687 | \$462,529 | \$2,406.6 | (D) | \$7,058.2 | \$1,539.8 | \$5,156.9 | \$1,059.2 | \$6,787.7 | \$16,126.4 |
| Transportation \& Utilities | 89 |  | \$913,741 | \$33,023 | \$1,122.3 | (D) | \$951.6 | \$696.1 | \$700.9 | \$149.9 | \$278.1 | \$1,100.2 |
| Utilities | 10 | 22 | \$341,717 | \$10,907 | \$983.5 | (D) | \$867.8 | \$625.2 | \$34.3 | \$3.9 | \$65.9 | \$420.5 |
| Transportation \& Warehousing | 36 | 48-49 | \$572,021 | \$22,116 | \$138.7 | \$43.6 | \$83.8 | \$70.9 | \$666.6 | \$146.1 | \$212.2 | \$679.7 |
| Trade | 88 |  | \$2,445,476 | \$82,410 | \$253.2 | \$213.6 | \$1,399.2 | \$141.5 | \$1,103.3 | \$166.9 | \$1,500.0 | \$2,780.3 |
| Wholesale Trade | 34 | 42 | \$1,243,274 | \$41,728 | \$75.9 | \$63.6 | \$541.4 | \$37.5 | \$241.1 | \$47.9 | \$648.0 | \$1,176.0 |
| Retail Trade | 35 | 44-45 | \$1,202,203 | \$40,682 | \$177.2 | \$150.1 | \$857.8 | \$104.0 | \$862.2 | \$119.0 | \$852.0 | \$1,604.4 |
| Information | 45 | 51 | \$1,167,921 | \$17,117 | \$42.7 | \$26.1 | \$183.5 | \$15.1 | \$50.5 | \$15.4 | \$114.2 | \$319.3 |
| Finance-Insurance-Real Estate, etc. | 50 |  | \$4,592,105 | \$153,758 | \$427.0 | \$384.1 | \$2,186.9 | \$329.2 | \$1,599.4 | \$343.3 | \$2,368.4 | \$5,136.6 |
| Finance \& Insurance | 51 | 52 | \$1,787,746 | \$76,444 | \$103.2 | \$110.5 | \$687.0 | \$71.6 | \$628.6 | \$81.3 | \$556.0 | \$1,591.7 |
| Real Estate-Rental-Leasing | 56 | 53 | \$2,804,359 | \$77,313 | \$323.8 | \$273.6 | \$1,499.9 | \$257.6 | \$970.8 | \$262.1 | \$1,812.4 | \$3,544.9 |
| Professional \& Business Services | 59 |  | \$2,689,775 | \$78,334 | \$133.3 | \$129.7 | \$931.7 | \$120.7 | \$702.6 | \$167.1 | \$888.8 | \$2,458.0 |
| Professional-Scientific-Technical | 60 | 54 | \$1,627,764 | \$35,484 | (D) | \$39.0 | \$377.6 | \$24.5 | \$274.2 | (D) | \$288.2 | \$1,124.8 |
| Enterprise Management | 64 | 55 | \$410,456 | \$22,808 | (D) | \$41.2 | \$243.2 | \$41.0 | \$233.9 | (D) | \$189.8 | \$667.1 |
| Administrative Support \& Waste Mgt. | 65 | 56 | \$651,554 | \$20,043 | \$67.7 | \$49.6 | \$310.9 | \$55.2 | \$194.6 | \$63.4 | \$410.8 | \$666.1 |
| Education-Health Care-Social Assistance | 68 |  | \$1,798,603 | \$64,348 | \$321.2 | \$311.7 | \$798.6 | \$156.6 | \$588.5 | \$125.4 | \$1,049.6 | \$3,056.1 |
| Educational Services | 69 | 61 | \$251,318 | \$5,693 | \$53.4 | \$108.7 | \$70.9 | \$2.9 | \$108.9 | \$1.1 | \$180.2 | \$168.7 |
| Health Care \& Social Assistance | 70 | 62 | \$1,547,286 | \$58,655 | \$267.7 | \$203.0 | \$727.7 | \$153.7 | \$479.6 | \$124.3 | \$869.4 | \$2,887.3 |
| Leisure \& Hospitality | 75 |  | \$672,078 | \$20,112 | \$56.1 | (D) | \$333.4 | \$36.9 | \$191.1 | \$51.8 | \$318.2 | \$815.4 |
| Arts-Entertainment-Recreation | 76 | 71 | \$163,359 | \$5,688 | \$10.5 | (D) | \$49.3 | \$1.5 | \$35.4 | \$10.7 | \$54.2 | \$223.3 |
| Accommodation \& Food Services | 79 | 72 | \$508,719 | \$14,424 | \$45.6 | \$46.0 | \$284.1 | \$35.4 | \$155.6 | \$41.2 | \$264.0 | \$592.1 |
| Other Services (exc. Government) | 82 | 81 | \$418,990 | \$13,429 | \$50.9 | \$61.3 | \$273.2 | \$43.7 | \$220.6 | \$39.3 | \$270.4 | \$460.5 |
| Governments \& Their Enterprises | 83 | 92 | \$2,670,611 | \$75,664 | \$282.5 | \$223.2 | \$985.0 | \$222.6 | \$780.3 | \$182.6 | \$1,476.1 | \$2,859.8 |
| Not Disclosed by Most-Specific Industry* |  |  | \$0 | \$0 | \$65.6 | \$55.3 | \$0.0 | \$76.7 | \$0.0 | \$103.7 | \$0.0 | \$0.0 |

Notes and Abbreviations: ^ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p - part; \$0.0 may also mean less than $\$ 500,000$. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: 2020 GDP by County and Sector - Percentage Distribution

| Industry Title | Codes |  | U.S. | Ohio | Jefferson^ | Knox | Lake | Lawrence^ | Licking | Logan | Lorain | Lucas |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% |
| Private industries | 2 |  | 87.2\% | 88.8\% | 91.8\% | 89.8\% | 91.6\% | 88.5\% | 89.4\% | 90.9\% | 86.6\% | 88.4\% |
| Goods-producing Industries | 91 |  | 16.9\% | 20.6\% | 21.7\% | (D) | 31.7\% | 8.9\% | 19.2\% | 38.3\% | 25.1\% | 23.2\% |
| Natural Resources \& Mining | 87 |  | 1.7\% | 1.2\% | 13.4\% | (D) | 1.0\% | (D) | 0.4\% | 3.8\% | 0.3\% | 0.2\% |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | 0.8\% | 0.6\% | 0.1\% | (D) | 0.5\% | (D) | 0.3\% | 3.3\% | 0.3\% | 0.1\% |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | 0.9\% | 0.6\% | 13.3\% | 0.7\% | 0.5\% | 0.0\% | 0.1\% | 0.5\% | 0.0\% | 0.2\% |
| Construction | 11 | 23 | 4.3\% | 3.8\% | 2.3\% | 8.3\% | 3.5\% | (D) | 5.4\% | 3.5\% | 3.8\% | 3.4\% |
| Manufacturing | 12 | 31-33 | 10.9\% | 15.5\% | 6.0\% | 22.5\% | 27.1\% | 4.9\% | 13.5\% | 31.0\% | 21.0\% | 19.6\% |
| Durable Goods Mfg. |  | 32p-33 | 6.1\% | 8.5\% | 5.3\% | 18.7\% | 14.6\% | 3.4\% | 6.5\% | 26.4\% | 14.5\% | 11.0\% |
| Non-durable Goods Mfg. |  | 31-32p | 4.8\% | 7.0\% | 0.7\% | 3.8\% | 12.6\% | 1.5\% | 7.1\% | 4.6\% | 6.5\% | 8.6\% |
| Services-Providing Industries | 92 |  | 70.3\% | 68.3\% | 70.1\% | (D) | 60.0\% | 79.6\% | 70.1\% | 52.6\% | 61.5\% | 65.2\% |
| Transportation \& Utilities | 89 |  | 4.4\% | 4.9\% | 32.7\% | (D) | 8.1\% | 36.0\% | 9.5\% | 7.4\% | 2.5\% | 4.4\% |
| Utilities | 10 | 22 | 1.6\% | 1.6\% | 28.6\% | (D) | 7.4\% | 32.3\% | 0.5\% | 0.2\% | 0.6\% | 1.7\% |
| Transportation \& Warehousing | 36 | 48-49 | 2.7\% | 3.3\% | 4.0\% | 2.0\% | 0.7\% | 3.7\% | 9.1\% | 7.3\% | 1.9\% | 2.7\% |
| Trade | 88 |  | 11.7\% | 12.2\% | 7.4\% | 9.8\% | 11.9\% | 7.3\% | 15.0\% | 8.3\% | 13.6\% | 11.2\% |
| Wholesale Trade | 34 | 42 | 6.0\% | 6.2\% | 2.2\% | 2.9\% | 4.6\% | 1.9\% | 3.3\% | 2.4\% | 5.9\% | 4.8\% |
| Retail Trade | 35 | 44-45 | 5.8\% | 6.0\% | 5.2\% | 6.9\% | 7.3\% | 5.4\% | 11.7\% | 5.9\% | 7.7\% | 6.5\% |
| Information | 45 | 51 | 5.6\% | 2.5\% | 1.2\% | 1.2\% | 1.6\% | 0.8\% | 0.7\% | 0.8\% | 1.0\% | 1.3\% |
| Finance-Insurance-Real Estate, etc. | 50 |  | 22.0\% | 22.7\% | 12.4\% | 17.6\% | 18.6\% | 17.0\% | 21.8\% | 17.1\% | 21.5\% | 20.8\% |
| Finance \& Insurance | 51 | 52 | 8.6\% | 11.3\% | 3.0\% | 5.1\% | 5.8\% | 3.7\% | 8.6\% | 4.0\% | 5.0\% | 6.4\% |
| Real Estate-Rental-Leasing | 56 | 53 | 13.4\% | 11.4\% | 9.4\% | 12.5\% | 12.7\% | 13.3\% | 13.2\% | 13.0\% | 16.4\% | 14.3\% |
| Professional \& Business Services | 59 |  | 12.9\% | 11.6\% | 3.9\% | 5.9\% | 7.9\% | 6.2\% | 9.6\% | 8.3\% | 8.1\% | 9.9\% |
| Professional-Scientific-Technical | 60 | 54 | 7.8\% | 5.2\% | (D) | 1.8\% | 3.2\% | 1.3\% | 3.7\% | (D) | 2.6\% | 4.5\% |
| Enterprise Management | 64 | 55 | 2.0\% | 3.4\% | (D) | 1.9\% | 2.1\% | 2.1\% | 3.2\% | (D) | 1.7\% | 2.7\% |
| Administrative Support \& Waste Mgt. | 65 | 56 | 3.1\% | 3.0\% | 2.0\% | 2.3\% | 2.6\% | 2.9\% | 2.6\% | 3.1\% | 3.7\% | 2.7\% |
| Education-Health Care-Social Assistance | 68 |  | 8.6\% | 9.5\% | 9.4\% | 14.3\% | 6.8\% | 8.1\% | 8.0\% | 6.2\% | 9.5\% | 12.4\% |
| Educational Services | 69 | 61 | 1.2\% | 0.8\% | 1.6\% | 5.0\% | 0.6\% | 0.1\% | 1.5\% | 0.1\% | 1.6\% | 0.7\% |
| Health Care \& Social Assistance | 70 | 62 | 7.4\% | 8.7\% | 7.8\% | 9.3\% | 6.2\% | 7.9\% | 6.5\% | 6.2\% | 7.9\% | 11.7\% |
| Leisure \& Hospitality | 75 |  | 3.2\% | 3.0\% | 1.6\% | (D) | 2.8\% | 1.9\% | 2.6\% | 2.6\% | 2.9\% | 3.3\% |
| Arts-Entertainment-Recreation | 76 | 71 | 0.8\% | 0.8\% | 0.3\% | (D) | 0.4\% | 0.1\% | 0.5\% | 0.5\% | 0.5\% | 0.9\% |
| Accommodation \& Food Services | 79 | 72 | 2.4\% | 2.1\% | 1.3\% | 2.1\% | 2.4\% | 1.8\% | 2.1\% | 2.0\% | 2.4\% | 2.4\% |
| Other Services (exc. Government) | 82 | 81 | 2.0\% | 2.0\% | 1.5\% | 2.8\% | 2.3\% | 2.3\% | 3.0\% | 2.0\% | 2.5\% | 1.9\% |
| Governments \& Their Enterprises | 83 | 92 | 12.8\% | 11.2\% | 8.2\% | 10.2\% | 8.4\% | 11.5\% | 10.6\% | 9.1\% | 13.4\% | 11.6\% |
| Not Disclosed by Most-Specific Industry* |  |  | 0.0\% | 0.0\% | 1.9\% | 2.5\% | 0.0\% | 4.0\% | 0.0\% | 5.2\% | 0.0\% | 0.0\% |

Notes and Abbreviations: ${ }^{\wedge}$ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p-part; 0.0\% may also mean less than $0.05 \%$. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: 2020 GDP by County and Sector (in millions)

| Industry Title | Codes |  | U.S. | Ohio | Madison | Mahoning | Marion | Medina | Meigs | Mercer | Miami | Monroe |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | \$20,893,746 | \$677,561 | \$2,053.4 | \$9,508.0 | \$2,819.5 | \$7,513.1 | \$421.9 | \$2,259.5 | \$4,601.1 | \$1,067.4 |
| Private industries | 2 |  | \$18,223,132 | \$601,897 | \$1,753.5 | \$8,314.4 | \$2,477.4 | \$6,870.2 | \$340.8 | \$2,050.6 | \$4,169.0 | \$1,002.8 |
| Goods-producing Industries | 91 |  | \$3,524,445 | \$139,369 | \$536.2 | \$1,415.1 | \$914.8 | \$1,708.4 | \$47.4 | \$932.1 | (D) | \$651.3 |
| Natural Resources \& Mining | 87 |  | \$356,627 | \$7,982 | \$115.9 | \$45.8 | \$68.7 | \$6.6 | \$15.7 | \$208.8 | (D) | \$562.5 |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | \$174,527 | \$3,915 | \$115.9 | \$14.1 | \$67.2 | \$4.3 | \$5.8 | \$202.1 | (D) | \$2.8 |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | \$182,099 | \$4,066 | \$0.0 | \$31.6 | \$1.6 | \$2.3 | \$9.9 | \$6.7 | \$12.7 | \$559.7 |
| Construction | 11 | 23 | \$895,860 | \$26,084 | \$95.8 | \$425.4 | \$60.0 | \$511.8 | \$20.7 | \$118.3 | \$206.4 | \$82.0 |
| Manufacturing | 12 | 31-33 | \$2,271,960 | \$105,303 | \$324.5 | \$943.9 | \$786.2 | \$1,189.9 | \$11.0 | \$605.0 | \$1,279.3 | \$6.8 |
| Durable Goods Mfg. | 13 | 32p-33 | \$1,268,834 | \$57,594 | \$282.0 | \$742.6 | \$556.4 | \$538.9 | \$6.1 | \$354.3 | \$966.2 | (D) |
| Non-durable Goods Mfg. | 25 | 31-32p | \$1,003,125 | \$47,709 | \$42.5 | \$201.3 | \$229.7 | \$651.0 | \$4.9 | \$250.7 | \$313.1 | (D) |
| Services-Providing Industries | 92 |  | \$14,698,687 | \$462,529 | \$1,217.3 | \$6,899.4 | \$1,562.6 | \$5,161.8 | \$293.3 | \$1,118.4 | (D) | \$351.5 |
| Transportation \& Utilities | 89 |  | \$913,741 | \$33,023 | \$225.0 | \$348.2 | \$103.3 | \$234.6 | \$25.2 | \$136.7 | (D) | \$33.6 |
| Utilities | 10 | 22 | \$341,717 | \$10,907 | \$0.1 | \$67.3 | \$17.3 | \$11.2 | \$12.7 | \$1.4 | (D) | \$7.0 |
| Transportation \& Warehousing | 36 | 48-49 | \$572,021 | \$22,116 | \$224.9 | \$280.8 | \$86.0 | \$223.4 | \$12.5 | \$135.3 | \$174.2 | \$26.5 |
| Trade | 88 |  | \$2,445,476 | \$82,410 | \$324.8 | \$1,449.6 | \$312.2 | \$1,452.5 | \$42.0 | (D) | (D) | \$31.7 |
| Wholesale Trade | 34 | 42 | \$1,243,274 | \$41,728 | \$57.9 | \$612.1 | \$123.0 | \$767.8 | \$5.6 | (D) | (D) | \$16.2 |
| Retail Trade | 35 | 44-45 | \$1,202,203 | \$40,682 | \$266.9 | \$837.4 | \$189.1 | \$684.7 | \$36.4 | \$145.5 | \$320.5 | \$15.4 |
| Information | 45 | 51 | \$1,167,921 | \$17,117 | \$7.4 | \$196.8 | \$100.6 | \$71.2 | \$1.8 | \$22.7 | \$12.5 | \$1.2 |
| Finance-Insurance-Real Estate, etc. | 50 |  | \$4,592,105 | \$153,758 | \$333.9 | \$2,156.1 | \$502.5 | \$1,746.6 | \$160.3 | \$405.6 | \$762.8 | \$124.9 |
| Finance \& Insurance | 51 | 52 | \$1,787,746 | \$76,444 | \$52.7 | \$846.8 | \$145.0 | \$511.8 | \$28.9 | \$207.0 | \$224.4 | \$34.5 |
| Real Estate-Rental-Leasing | 56 | 53 | \$2,804,359 | \$77,313 | \$281.2 | \$1,309.3 | \$357.6 | \$1,234.7 | \$131.3 | \$198.6 | \$538.4 | \$90.3 |
| Professional \& Business Services | 59 |  | \$2,689,775 | \$78,334 | \$172.1 | \$841.6 | \$123.6 | \$853.9 | \$11.4 | (D) | \$319.3 | \$131.8 |
| Professional-Scientific-Technical | 60 | 54 | \$1,627,764 | \$35,484 | \$75.2 | \$301.0 | \$4.8 | \$273.8 | (D) | \$37.8 | \$118.6 | \$6.1 |
| Enterprise Management | 64 | 55 | \$410,456 | \$22,808 | \$34.1 | \$133.7 | \$45.8 | \$391.4 | (D) | (D) | \$84.7 | \$34.1 |
| Administrative Support \& Waste Mgt. | 65 | 56 | \$651,554 | \$20,043 | \$62.7 | \$406.8 | \$73.1 | \$188.7 | \$5.6 | (D) | \$116.1 | \$91.6 |
| Education-Health Care-Social Assistance | 68 |  | \$1,798,603 | \$64,348 | \$78.4 | \$1,331.6 | \$307.6 | \$422.6 | \$26.8 | \$87.5 | \$307.5 | \$14.7 |
| Educational Services | 69 | 61 | \$251,318 | \$5,693 | (D) | \$28.4 | \$2.5 | \$29.8 | \$0.9 | (D) | \$14.6 | (D) |
| Health Care \& Social Assistance | 70 | 62 | \$1,547,286 | \$58,655 | (D) | \$1,303.2 | \$305.0 | \$392.8 | \$25.9 | (D) | \$293.0 | (D) |
| Leisure \& Hospitality | 75 |  | \$672,078 | \$20,112 | \$41.1 | \$331.9 | \$62.1 | \$203.7 | \$10.4 | \$34.9 | \$117.4 | \$5.1 |
| Arts-Entertainment-Recreation | 76 | 71 | \$163,359 | \$5,688 | \$2.3 | \$54.1 | \$4.5 | \$41.2 | (D) | \$3.6 | \$10.6 | \$0.3 |
| Accommodation \& Food Services | 79 | 72 | \$508,719 | \$14,424 | \$38.8 | \$277.7 | \$57.6 | \$162.5 | (D) | \$31.2 | \$106.8 | \$4.8 |
| Other Services (exc. Government) | 82 | 81 | \$418,990 | \$13,429 | \$34.6 | \$243.8 | \$50.6 | \$176.7 | \$15.6 | \$58.0 | \$107.7 | \$8.5 |
| Governments \& Their Enterprises | 83 | 92 | \$2,670,611 | \$75,664 | \$299.9 | \$1,193.5 | \$342.1 | \$642.9 | \$81.2 | \$209.0 | \$432.1 | \$64.7 |
| Not Disclosed by Most-Specific Industry* |  |  | \$0 | \$0 | \$78.4 | \$0.0 | \$0.0 | \$0.0 | \$16.2 | \$277.1 | \$548.7 | \$21.5 |

Notes and Abbreviations: ^ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p - part; \$0.0 may also mean less than $\$ 500,000$. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: $\mathbf{2 0 2 0}$ GDP by County and Sector - Percentage Distribution

| Industry Title | Codes |  | U.S. | Ohio | Madison | Mahoning | Marion | Medina | Meigs | Mercer | Miami | Monroe |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% |
| Private industries | 2 |  | 87.2\% | 88.8\% | 85.4\% | 87.4\% | 87.9\% | 91.4\% | 80.8\% | 90.8\% | 90.6\% | 93.9\% |
| Goods-producing Industries | 91 |  | 16.9\% | 20.6\% | 26.1\% | 14.9\% | 32.4\% | 22.7\% | 11.2\% | 41.3\% | (D) | 61.0\% |
| Natural Resources \& Mining | 87 |  | 1.7\% | 1.2\% | 5.6\% | 0.5\% | 2.4\% | 0.1\% | 3.7\% | 9.2\% | (D) | 52.7\% |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | 0.8\% | 0.6\% | 5.6\% | 0.1\% | 2.4\% | 0.1\% | 1.4\% | 8.9\% | (D) | 0.3\% |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | 0.9\% | 0.6\% | 0.0\% | 0.3\% | 0.1\% | 0.0\% | 2.4\% | 0.3\% | 0.3\% | 52.4\% |
| Construction | 11 | 23 | 4.3\% | 3.8\% | 4.7\% | 4.5\% | 2.1\% | 6.8\% | 4.9\% | 5.2\% | 4.5\% | 7.7\% |
| Manufacturing |  | 31-33 | 10.9\% | 15.5\% | 15.8\% | 9.9\% | 27.9\% | 15.8\% | 2.6\% | 26.8\% | 27.8\% | 0.6\% |
| Durable Goods Mfg. |  | 32p-33 | 6.1\% | 8.5\% | 13.7\% | 7.8\% | 19.7\% | 7.2\% | 1.4\% | 15.7\% | 21.0\% | (D) |
| Non-durable Goods Mfg. |  | 31-32p | 4.8\% | 7.0\% | 2.1\% | 2.1\% | 8.1\% | 8.7\% | 1.2\% | 11.1\% | 6.8\% | (D) |
| Services-Providing Industries | 92 |  | 70.3\% | 68.3\% | 59.3\% | 72.6\% | 55.4\% | 68.7\% | 69.5\% | 49.5\% | (D) | 32.9\% |
| Transportation \& Utilities | 89 |  | 4.4\% | 4.9\% | 11.0\% | 3.7\% | 3.7\% | 3.1\% | 6.0\% | 6.1\% | (D) | 3.1\% |
| Utilities | 10 | 22 | 1.6\% | 1.6\% | 0.0\% | 0.7\% | 0.6\% | 0.1\% | 3.0\% | 0.1\% | (D) | 0.7\% |
| Transportation \& Warehousing | 36 | 48-49 | 2.7\% | 3.3\% | 11.0\% | 3.0\% | 3.1\% | 3.0\% | 3.0\% | 6.0\% | 3.8\% | 2.5\% |
| Trade | 88 |  | 11.7\% | 12.2\% | 15.8\% | 15.2\% | 11.1\% | 19.3\% | 9.9\% | (D) | (D) | 3.0\% |
| Wholesale Trade | 34 | 42 | 6.0\% | 6.2\% | 2.8\% | 6.4\% | 4.4\% | 10.2\% | 1.3\% | (D) | (D) | 1.5\% |
| Retail Trade | 35 | 44-45 | 5.8\% | 6.0\% | 13.0\% | 8.8\% | 6.7\% | 9.1\% | 8.6\% | 6.4\% | 7.0\% | 1.4\% |
| Information | 45 | 51 | 5.6\% | 2.5\% | 0.4\% | 2.1\% | 3.6\% | 0.9\% | 0.4\% | 1.0\% | 0.3\% | 0.1\% |
| Finance-Insurance-Real Estate, etc. | 50 |  | 22.0\% | 22.7\% | 16.3\% | 22.7\% | 17.8\% | 23.2\% | 38.0\% | 18.0\% | 16.6\% | 11.7\% |
| Finance \& Insurance | 51 | 52 | 8.6\% | 11.3\% | 2.6\% | 8.9\% | 5.1\% | 6.8\% | 6.9\% | 9.2\% | 4.9\% | 3.2\% |
| Real Estate-Rental-Leasing | 56 | 53 | 13.4\% | 11.4\% | 13.7\% | 13.8\% | 12.7\% | 16.4\% | 31.1\% | 8.8\% | 11.7\% | 8.5\% |
| Professional \& Business Services | 59 |  | 12.9\% | 11.6\% | 8.4\% | 8.9\% | 4.4\% | 11.4\% | 2.7\% | (D) | 6.9\% | 12.4\% |
| Professional-Scientific-Technical | 60 | 54 | 7.8\% | 5.2\% | 3.7\% | 3.2\% | 0.2\% | 3.6\% | (D) | 1.7\% | 2.6\% | 0.6\% |
| Enterprise Management | 64 | 55 | 2.0\% | 3.4\% | 1.7\% | 1.4\% | 1.6\% | 5.2\% | (D) | (D) | 1.8\% | 3.2\% |
| Administrative Support \& Waste Mgt. | 65 | 56 | 3.1\% | 3.0\% | 3.1\% | 4.3\% | 2.6\% | 2.5\% | 1.3\% | (D) | 2.5\% | 8.6\% |
| Education-Health Care-Social Assistance | 68 |  | 8.6\% | 9.5\% | 3.8\% | 14.0\% | 10.9\% | 5.6\% | 6.3\% | 3.9\% | 6.7\% | 1.4\% |
| Educational Services | 69 | 61 | 1.2\% | 0.8\% | (D) | 0.3\% | 0.1\% | 0.4\% | 0.2\% | (D) | 0.3\% | (D) |
| Health Care \& Social Assistance | 70 | 62 | 7.4\% | 8.7\% | (D) | 13.7\% | 10.8\% | 5.2\% | 6.1\% | (D) | 6.4\% | (D) |
| Leisure \& Hospitality | 75 |  | 3.2\% | 3.0\% | 2.0\% | 3.5\% | 2.2\% | 2.7\% | 2.5\% | 1.5\% | 2.6\% | 0.5\% |
| Arts-Entertainment-Recreation | 76 | 71 | 0.8\% | 0.8\% | 0.1\% | 0.6\% | 0.2\% | 0.5\% | (D) | 0.2\% | 0.2\% | 0.0\% |
| Accommodation \& Food Services | 79 | 72 | 2.4\% | 2.1\% | 1.9\% | 2.9\% | 2.0\% | 2.2\% | (D) | 1.4\% | 2.3\% | 0.5\% |
| Other Services (exc. Government) | 82 | 81 | 2.0\% | 2.0\% | 1.7\% | 2.6\% | 1.8\% | 2.4\% | 3.7\% | 2.6\% | 2.3\% | 0.8\% |
| Governments \& Their Enterprises | 83 | 92 | 12.8\% | 11.2\% | 14.6\% | 12.6\% | 12.1\% | 8.6\% | 19.2\% | 9.2\% | 9.4\% | 6.1\% |
| Not Disclosed by Most-Specific Industry* |  |  | 0.0\% | 0.0\% | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 3.8\% | 12.3\% | 11.9\% | 2.0\% |

Notes and Abbreviations: ^ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p-part; 0.0\% may also mean less than $0.05 \%$. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: 2020 GDP by County and Sector (in millions)

| Industry Title | Codes |  | U.S. | Ohio Montgomery |  | Morgan | Morrow | Muskingum | Noble | Ottawa | Paulding | Perry |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | \$20,893,746 | \$677,561 | \$30,010.6 | \$344.6 | \$723.2 | \$3,798.4 | \$438.0 | \$2,137.2 | \$650.0 | \$790.3 |
| Private industries | 2 |  | \$18,223,132 | \$601,897 | \$26,399.6 | \$292.9 | \$609.8 | \$3,407.0 | \$350.0 | \$1,923.9 | \$570.2 | \$671.3 |
| Goods-producing Industries | 91 |  | \$3,524,445 | \$139,369 | \$4,312.9 | \$60.8 | \$198.6 | \$732.6 | \$131.1 | \$371.2 | \$199.0 | \$229.8 |
| Natural Resources \& Mining | 87 |  | \$356,627 | \$7,982 | \$37.0 | \$8.0 | \$37.7 | \$148.9 | \$97.5 | \$41.4 | \$74.1 | \$42.4 |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | \$174,527 | \$3,915 | \$28.8 | \$4.6 | \$35.2 | \$13.3 | \$4.7 | \$16.7 | \$69.5 | \$14.5 |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | \$182,099 | \$4,066 | \$8.2 | \$3.4 | \$2.5 | \$135.6 | \$92.8 | \$24.7 | \$4.6 | \$27.9 |
| Construction | 11 | 23 | \$895,860 | \$26,084 | \$1,066.8 | \$15.0 | \$63.8 | \$132.1 | \$10.9 | \$79.9 | \$22.4 | \$102.7 |
| Manufacturing | 12 | 31-33 | \$2,271,960 | \$105,303 | \$3,209.1 | \$37.7 | \$97.2 | \$451.5 | \$22.8 | \$249.9 | \$102.5 | \$84.7 |
| Durable Goods Mfg. | 13 | 32p-33 | \$1,268,834 | \$57,594 | \$2,314.9 | \$37.2 | \$89.8 | \$160.4 | (D) | \$218.7 | \$65.0 | \$84.2 |
| Non-durable Goods Mfg. | 25 | 31-32p | \$1,003,125 | \$47,709 | \$894.3 | \$0.5 | \$7.4 | \$291.1 | (D) | \$31.2 | \$37.5 | \$0.5 |
| Services-Providing Industries | 92 |  | \$14,698,687 | \$462,529 | \$22,086.6 | \$232.1 | \$411.2 | \$2,674.5 | \$218.9 | \$1,552.6 | \$371.2 | \$441.5 |
| Transportation \& Utilities | 89 |  | \$913,741 | \$33,023 | \$1,253.9 | \$8.3 | (D) | \$486.9 | \$20.3 | \$626.3 | \$112.6 | \$23.9 |
| Utilities | 10 | 22 | \$341,717 | \$10,907 | \$444.1 | \$3.2 | \$5.6 | \$331.6 | \$0.5 | \$582.5 | \$84.8 | \$6.0 |
| Transportation \& Warehousing | 36 | 48-49 | \$572,021 | \$22,116 | \$809.9 | \$5.1 | (D) | \$155.3 | \$19.8 | \$43.8 | \$27.7 | \$17.9 |
| Trade | 88 |  | \$2,445,476 | \$82,410 | \$3,541.9 | \$84.9 | \$73.9 | \$501.6 | (D) | (D) | (D) | \$78.9 |
| Wholesale Trade | 34 | 42 | \$1,243,274 | \$41,728 | \$1,862.1 | \$68.1 | \$16.0 | \$133.9 | (D) | (D) | (D) | \$29.8 |
| Retail Trade | 35 | 44-45 | \$1,202,203 | \$40,682 | \$1,679.8 | \$16.9 | \$57.9 | \$367.7 | \$18.9 | \$97.7 | \$27.5 | \$49.1 |
| Information | 45 | 51 | \$1,167,921 | \$17,117 | \$2,062.6 | \$2.8 | \$3.6 | \$123.7 | \$2.1 | \$7.8 | \$3.2 | \$3.3 |
| Finance-Insurance-Real Estate, etc. | 50 |  | \$4,592,105 | \$153,758 | \$6,366.5 | \$91.8 | \$170.9 | \$572.7 | \$82.6 | \$442.6 | \$121.0 | \$174.3 |
| Finance \& Insurance | 51 | 52 | \$1,787,746 | \$76,444 | \$3,070.4 | \$18.7 | \$26.1 | \$204.6 | \$25.6 | \$96.0 | \$35.5 | \$44.3 |
| Real Estate-Rental-Leasing | 56 | 53 | \$2,804,359 | \$77,313 | \$3,296.1 | \$73.1 | \$144.7 | \$368.1 | \$57.1 | \$346.6 | \$85.4 | \$130.0 |
| Professional \& Business Services | 59 |  | \$2,689,775 | \$78,334 | \$2,956.4 | \$7.9 | (D) | \$249.2 | \$52.7 | (D) | \$49.2 | \$79.1 |
| Professional-Scientific-Technical | 60 | 54 | \$1,627,764 | \$35,484 | \$1,654.2 | \$3.2 | (D) | \$122.2 | \$11.5 | (D) | (D) | \$11.4 |
| Enterprise Management | 64 | 55 | \$410,456 | \$22,808 | \$384.8 | \$0.0 | (D) | \$44.6 | (D) | (D) | (D) | \$44.5 |
| Administrative Support \& Waste Mgt. | 65 | 56 | \$651,554 | \$20,043 | \$917.4 | \$4.7 | \$18.8 | \$82.3 | (D) | (D) | \$7.0 | \$23.2 |
| Education-Health Care-Social Assistance | 68 |  | \$1,798,603 | \$64,348 | \$4,479.3 | \$22.7 | \$34.2 | \$526.6 | \$13.7 | \$94.3 | (D) | \$45.5 |
| Educational Services | 69 | 61 | \$251,318 | \$5,693 | \$493.7 | (D) | (D) | \$35.1 | \$0.1 | \$2.3 | (D) | \$1.9 |
| Health Care \& Social Assistance | 70 | 62 | \$1,547,286 | \$58,655 | \$3,985.6 | (D) | (D) | \$491.5 | \$13.6 | \$92.0 | (D) | \$43.6 |
| Leisure \& Hospitality | 75 |  | \$672,078 | \$20,112 | \$843.1 | \$5.5 | \$15.4 | \$115.7 | (D) | \$130.7 | (D) | \$12.5 |
| Arts-Entertainment-Recreation | 76 | 71 | \$163,359 | \$5,688 | \$155.7 | (D) | \$4.8 | \$13.7 | (D) | \$53.1 | (D) | \$1.0 |
| Accommodation \& Food Services | 79 | 72 | \$508,719 | \$14,424 | \$687.4 | (D) | \$10.7 | \$102.0 | (D) | \$77.7 | (D) | \$11.5 |
| Other Services (exc. Government) | 82 | 81 | \$418,990 | \$13,429 | \$582.9 | \$8.2 | \$24.0 | \$98.1 | \$9.3 | \$38.2 | \$14.7 | \$24.0 |
| Governments \& Their Enterprises | 83 | 92 | \$2,670,611 | \$75,664 | \$3,611.1 | \$51.7 | \$113.3 | \$391.4 | \$88.0 | \$213.4 | \$79.8 | \$119.1 |
| Not Disclosed by Most-Specific Industry* |  |  | \$0 | \$0 | \$0.0 | \$28.2 | \$99.1 | \$0.0 | \$83.3 | \$115.0 | \$85.2 | \$0.0 |

Notes and Abbreviations: ${ }^{\wedge}$ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p - part; \$0.0 may also mean less than $\$ 500,000$. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: $\mathbf{2 0 2 0}$ GDP by County and Sector - Percentage Distribution

| Industry Title | Codes |  | U.S. | Ohio Montgomery |  | Morgan | Morrow | Muskingum | Noble | Ottawa | Paulding | Perry |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% |
| Private industries | 2 |  | 87.2\% | 88.8\% | 88.0\% | 85.0\% | 84.3\% | 89.7\% | 79.9\% | 90.0\% | 87.7\% | 84.9\% |
| Goods-producing Industries | 91 |  | 16.9\% | 20.6\% | 14.4\% | 17.6\% | 27.5\% | 19.3\% | 29.9\% | 17.4\% | 30.6\% | 29.1\% |
| Natural Resources \& Mining | 87 |  | 1.7\% | 1.2\% | 0.1\% | 2.3\% | 5.2\% | 3.9\% | 22.2\% | 1.9\% | 11.4\% | 5.4\% |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | 0.8\% | 0.6\% | 0.1\% | 1.3\% | 4.9\% | 0.4\% | 1.1\% | 0.8\% | 10.7\% | 1.8\% |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | 0.9\% | 0.6\% | 0.0\% | 1.0\% | 0.3\% | 3.6\% | 21.2\% | 1.2\% | 0.7\% | 3.5\% |
| Construction | 11 | 23 | 4.3\% | 3.8\% | 3.6\% | 4.4\% | 8.8\% | 3.5\% | 2.5\% | 3.7\% | 3.4\% | 13.0\% |
| Manufacturing | 12 | 31-33 | 10.9\% | 15.5\% | 10.7\% | 10.9\% | 13.4\% | 11.9\% | 5.2\% | 11.7\% | 15.8\% | 10.7\% |
| Durable Goods Mfg. |  | 32p-33 | 6.1\% | 8.5\% | 7.7\% | 10.8\% | 12.4\% | 4.2\% | (D) | 10.2\% | 10.0\% | 10.6\% |
| Non-durable Goods Mfg. |  | 31-32p | 4.8\% | 7.0\% | 3.0\% | 0.1\% | 1.0\% | 7.7\% | (D) | 1.5\% | 5.8\% | 0.1\% |
| Services-Providing Industries | 92 |  | 70.3\% | 68.3\% | 73.6\% | 67.3\% | 56.9\% | 70.4\% | 50.0\% | 72.6\% | 57.1\% | 55.9\% |
| Transportation \& Utilities | 89 |  | 4.4\% | 4.9\% | 4.2\% | 2.4\% | (D) | 12.8\% | 4.6\% | 29.3\% | 17.3\% | 3.0\% |
| Utilities | 10 | 22 | 1.6\% | 1.6\% | 1.5\% | 0.9\% | 0.8\% | 8.7\% | 0.1\% | 27.3\% | 13.1\% | 0.8\% |
| Transportation \& Warehousing | 36 | 48-49 | 2.7\% | 3.3\% | 2.7\% | 1.5\% | (D) | 4.1\% | 4.5\% | 2.1\% | 4.3\% | 2.3\% |
| Trade | 88 |  | 11.7\% | 12.2\% | 11.8\% | 24.7\% | 10.2\% | 13.2\% | (D) | (D) | (D) | 10.0\% |
| Wholesale Trade | 34 | 42 | 6.0\% | 6.2\% | 6.2\% | 19.7\% | 2.2\% | 3.5\% | (D) | (D) | (D) | 3.8\% |
| Retail Trade | 35 | 44-45 | 5.8\% | 6.0\% | 5.6\% | 4.9\% | 8.0\% | 9.7\% | 4.3\% | 4.6\% | 4.2\% | 6.2\% |
| Information | 45 | 51 | 5.6\% | 2.5\% | 6.9\% | 0.8\% | 0.5\% | 3.3\% | 0.5\% | 0.4\% | 0.5\% | 0.4\% |
| Finance-Insurance-Real Estate, etc. | 50 |  | 22.0\% | 22.7\% | 21.2\% | 26.6\% | 23.6\% | 15.1\% | 18.9\% | 20.7\% | 18.6\% | 22.1\% |
| Finance \& Insurance | 51 | 52 | 8.6\% | 11.3\% | 10.2\% | 5.4\% | 3.6\% | 5.4\% | 5.8\% | 4.5\% | 5.5\% | 5.6\% |
| Real Estate-Rental-Leasing | 56 | 53 | 13.4\% | 11.4\% | 11.0\% | 21.2\% | 20.0\% | 9.7\% | 13.0\% | 16.2\% | 13.1\% | 16.4\% |
| Professional \& Business Services | 59 |  | 12.9\% | 11.6\% | 9.9\% | 2.3\% | (D) | 6.6\% | 12.0\% | (D) | 7.6\% | 10.0\% |
| Professional-Scientific-Technical | 60 | 54 | 7.8\% | 5.2\% | 5.5\% | 0.9\% | (D) | 3.2\% | 2.6\% | (D) | (D) | 1.4\% |
| Enterprise Management | 64 | 55 | 2.0\% | 3.4\% | 1.3\% | 0.0\% | (D) | 1.2\% | (D) | (D) | (D) | 5.6\% |
| Administrative Support \& Waste Mgt. | 65 | 56 | 3.1\% | 3.0\% | 3.1\% | 1.4\% | 2.6\% | 2.2\% | (D) | (D) | 1.1\% | 2.9\% |
| Education-Health Care-Social Assistance | 68 |  | 8.6\% | 9.5\% | 14.9\% | 6.6\% | 4.7\% | 13.9\% | 3.1\% | 4.4\% | (D) | 5.8\% |
| Educational Services | 69 | 61 | 1.2\% | 0.8\% | 1.6\% | (D) | (D) | 0.9\% | 0.0\% | 0.1\% | (D) | 0.2\% |
| Health Care \& Social Assistance | 70 | 62 | 7.4\% | 8.7\% | 13.3\% | (D) | (D) | 12.9\% | 3.1\% | 4.3\% | (D) | 5.5\% |
| Leisure \& Hospitality | 75 |  | 3.2\% | 3.0\% | 2.8\% | 1.6\% | 2.1\% | 3.0\% | (D) | 6.1\% | (D) | 1.6\% |
| Arts-Entertainment-Recreation | 76 | 71 | 0.8\% | 0.8\% | 0.5\% | (D) | 0.7\% | 0.4\% | (D) | 2.5\% | (D) | 0.1\% |
| Accommodation \& Food Services | 79 | 72 | 2.4\% | 2.1\% | 2.3\% | (D) | 1.5\% | 2.7\% | (D) | 3.6\% | (D) | 1.5\% |
| Other Services (exc. Government) | 82 | 81 | 2.0\% | 2.0\% | 1.9\% | 2.4\% | 3.3\% | 2.6\% | 2.1\% | 1.8\% | 2.3\% | 3.0\% |
| Governments \& Their Enterprises | 83 | 92 | 12.8\% | 11.2\% | 12.0\% | 15.0\% | 15.7\% | 10.3\% | 20.1\% | 10.0\% | 12.3\% | 15.1\% |
| Not Disclosed by Most-Specific Industry* |  |  | 0.0\% | 0.0\% | 0.0\% | 8.2\% | 13.7\% | 0.0\% | 19.0\% | 5.4\% | 13.1\% | 0.0\% |

Notes and Abbreviations: ${ }^{\wedge}$ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p-part; 0.0\% may also mean less than 0.05\%. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: 2020 GDP by County and Sector (in millions)

| Industry Title | Codes |  | U.S. | Ohio | Pickaway | Pike | Portage | Preble | Putnam | Richland^ | Ross | Sandusky |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | \$20,893,746 | \$677,561 | \$1,992.0 | \$1,203.8 | \$6,447.9 | \$1,271.3 | \$1,357.6 | \$4,721.1 | \$2,963.1 | \$3,032.0 |
| Private industries | 2 |  | \$18,223,132 | \$601,897 | \$1,645.2 | \$1,088.3 | \$5,324.8 | \$1,136.0 | \$1,232.6 | \$4,052.8 | \$2,294.4 | \$2,798.7 |
| Goods-producing Industries | 91 |  | \$3,524,445 | \$139,369 | \$631.5 | \$120.7 | (D) | \$509.3 | (D) | \$1,277.0 | \$545.7 | \$1,402.0 |
| Natural Resources \& Mining | 87 |  | \$356,627 | \$7,982 | \$97.6 | \$22.3 | (D) | \$70.3 | (D) | \$54.4 | \$42.1 | \$49.4 |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | \$174,527 | \$3,915 | \$90.5 | \$18.5 | (D) | \$67.1 | (D) | \$53.8 | \$39.1 | \$41.3 |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | \$182,099 | \$4,066 | \$7.1 | \$3.8 | \$38.2 | \$3.2 | \$1.1 | \$0.7 | \$3.1 | \$8.1 |
| Construction | 11 | 23 | \$895,860 | \$26,084 | \$138.3 | \$44.3 | \$285.2 | \$62.8 | \$93.8 | \$241.1 | \$84.1 | \$94.1 |
| Manufacturing | 12 | 31-33 | \$2,271,960 | \$105,303 | \$395.6 | \$54.1 | \$1,433.9 | \$376.2 | \$380.9 | \$981.5 | \$419.5 | \$1,258.5 |
| Durable Goods Mfg. | 13 | 32p-33 | \$1,268,834 | \$57,594 | \$122.2 | \$50.8 | \$617.0 | \$312.3 | \$307.9 | \$828.3 | \$268.0 | \$962.9 |
| Non-durable Goods Mfg. | 25 | 31-32p | \$1,003,125 | \$47,709 | \$273.4 | \$3.3 | \$816.9 | \$63.9 | \$73.0 | \$153.1 | \$151.5 | \$295.7 |
| Services-Providing Industries | 92 |  | \$14,698,687 | \$462,529 | \$1,013.6 | \$967.6 | (D) | \$626.6 | (D) | \$2,775.8 | \$1,748.7 | \$1,396.7 |
| Transportation \& Utilities | 89 |  | \$913,741 | \$33,023 | \$81.8 | \$56.4 | (D) | \$55.9 | (D) | \$179.9 | \$142.2 | (D) |
| Utilities | 10 | 22 | \$341,717 | \$10,907 | \$30.2 | \$14.2 | \$5.5 | \$3.3 | \$0.9 | \$21.9 | \$50.9 | (D) |
| Transportation \& Warehousing | 36 | 48-49 | \$572,021 | \$22,116 | \$51.6 | \$42.2 | (D) | \$52.6 | (D) | \$158.0 | \$91.3 | \$78.3 |
| Trade | 88 |  | \$2,445,476 | \$82,410 | \$145.3 | (D) | \$1,086.6 | (D) | \$135.9 | \$585.3 | \$340.6 | \$269.6 |
| Wholesale Trade | 34 | 42 | \$1,243,274 | \$41,728 | \$45.9 | (D) | \$616.3 | (D) | \$61.8 | \$187.5 | \$77.1 | \$101.1 |
| Retail Trade | 35 | 44-45 | \$1,202,203 | \$40,682 | \$99.4 | \$62.1 | \$470.4 | \$84.3 | \$74.1 | \$397.7 | \$263.5 | \$168.5 |
| Information | 45 | 51 | \$1,167,921 | \$17,117 | \$7.6 | \$7.4 | \$89.1 | \$15.9 | \$11.0 | \$93.0 | \$70.2 | \$18.7 |
| Finance-Insurance-Real Estate, etc. | 50 |  | \$4,592,105 | \$153,758 | \$452.5 | \$145.7 | \$1,151.1 | \$246.4 | \$276.4 | \$855.3 | \$437.8 | \$467.5 |
| Finance \& Insurance | 51 | 52 | \$1,787,746 | \$76,444 | \$83.4 | \$35.6 | \$247.6 | \$56.8 | \$94.9 | \$288.8 | \$122.6 | \$113.2 |
| Real Estate-Rental-Leasing | 56 | 53 | \$2,804,359 | \$77,313 | \$369.1 | \$110.2 | \$903.5 | \$189.6 | \$181.5 | \$566.5 | \$315.2 | \$354.3 |
| Professional \& Business Services | 59 |  | \$2,689,775 | \$78,334 | \$107.7 | \$554.4 | \$423.3 | (D) | \$83.9 | \$293.9 | \$129.8 | \$146.6 |
| Professional-Scientific-Technical | 60 | 54 | \$1,627,764 | \$35,484 | \$26.9 | (D) | \$215.9 | (D) | \$22.4 | \$83.9 | \$29.7 | \$33.5 |
| Enterprise Management | 64 | 55 | \$410,456 | \$22,808 | \$42.2 | (D) | \$111.1 | (D) | \$34.1 | \$43.9 | \$48.3 | \$60.4 |
| Administrative Support \& Waste Mgt. | 65 | 56 | \$651,554 | \$20,043 | \$38.5 | \$462.2 | \$96.3 | \$14.5 | \$27.4 | \$166.1 | \$51.8 | \$52.7 |
| Education-Health Care-Social Assistance | 68 |  | \$1,798,603 | \$64,348 | \$129.1 | \$89.8 | \$321.8 | \$52.0 | \$66.7 | \$513.7 | \$468.5 | (D) |
| Educational Services | 69 | 61 | \$251,318 | \$5,693 | (D) | (D) | \$35.5 | \$1.1 | \$4.1 | \$24.7 | (D) | (D) |
| Health Care \& Social Assistance | 70 | 62 | \$1,547,286 | \$58,655 | (D) | (D) | \$286.3 | \$50.8 | \$62.6 | \$489.0 | (D) | (D) |
| Leisure \& Hospitality | 75 |  | \$672,078 | \$20,112 | \$45.1 | (D) | \$182.4 | \$28.5 | \$20.5 | \$148.9 | \$103.9 | \$64.2 |
| Arts-Entertainment-Recreation | 76 | 71 | \$163,359 | \$5,688 | \$4.5 | (D) | \$21.1 | \$1.0 | \$2.9 | \$18.7 | \$5.9 | \$10.2 |
| Accommodation \& Food Services | 79 | 72 | \$508,719 | \$14,424 | \$40.6 | (D) | \$161.3 | \$27.6 | \$17.6 | \$130.2 | \$97.9 | \$54.0 |
| Other Services (exc. Government) | 82 | 81 | \$418,990 | \$13,429 | \$44.4 | \$18.8 | \$137.1 | \$32.0 | \$31.0 | \$105.9 | \$55.8 | \$56.8 |
| Governments \& Their Enterprises | 83 | 92 | \$2,670,611 | \$75,664 | \$346.8 | \$115.5 | \$1,123.0 | \$135.3 | \$125.0 | \$668.3 | \$668.7 | \$233.3 |
| Not Disclosed by Most-Specific Industry* |  |  | \$0 | \$0 | \$129.1 | \$214.9 | \$170.6 | \$97.1 | \$130.5 | \$0.0 | \$468.5 | \$295.1 |

Notes and Abbreviations: ${ }^{\wedge}$ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p - part; \$0.0 may also mean less than $\$ 500,000$. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: $\mathbf{2 0 2 0}$ GDP by County and Sector - Percentage Distribution

| Industry Title | Codes |  | U.S. | Ohio | Pickaway | Pike | Portage | Preble | Putnam | Richland^ | Ross | Sandusky |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% |
| Private industries | 2 |  | 87.2\% | 88.8\% | 82.6\% | 90.4\% | 82.6\% | 89.4\% | 90.8\% | 85.8\% | 77.4\% | 92.3\% |
| Goods-producing Industries | 91 |  | 16.9\% | 20.6\% | 31.7\% | 10.0\% | (D) | 40.1\% | (D) | 27.0\% | 18.4\% | 46.2\% |
| Natural Resources \& Mining | 87 |  | 1.7\% | 1.2\% | 4.9\% | 1.9\% | (D) | 5.5\% | (D) | 1.2\% | 1.4\% | 1.6\% |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | 0.8\% | 0.6\% | 4.5\% | 1.5\% | (D) | 5.3\% | (D) | 1.1\% | 1.3\% | 1.4\% |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | 0.9\% | 0.6\% | 0.4\% | 0.3\% | 0.6\% | 0.2\% | 0.1\% | 0.0\% | 0.1\% | 0.3\% |
| Construction | 11 | 23 | 4.3\% | 3.8\% | 6.9\% | 3.7\% | 4.4\% | 4.9\% | 6.9\% | 5.1\% | 2.8\% | 3.1\% |
| Manufacturing | 12 | 31-33 | 10.9\% | 15.5\% | 19.9\% | 4.5\% | 22.2\% | 29.6\% | 28.1\% | 20.8\% | 14.2\% | 41.5\% |
| Durable Goods Mfg. |  | 32p-33 | 6.1\% | 8.5\% | 6.1\% | 4.2\% | 9.6\% | 24.6\% | 22.7\% | 17.5\% | 9.0\% | 31.8\% |
| Non-durable Goods Mfg. |  | 31-32p | 4.8\% | 7.0\% | 13.7\% | 0.3\% | 12.7\% | 5.0\% | 5.4\% | 3.2\% | 5.1\% | 9.8\% |
| Services-Providing Industries | 92 |  | 70.3\% | 68.3\% | 50.9\% | 80.4\% | (D) | 49.3\% | (D) | 58.8\% | 59.0\% | 46.1\% |
| Transportation \& Utilities | 89 |  | 4.4\% | 4.9\% | 4.1\% | 4.7\% | (D) | 4.4\% | (D) | 3.8\% | 4.8\% | (D) |
| Utilities | 10 | 22 | 1.6\% | 1.6\% | 1.5\% | 1.2\% | 0.1\% | 0.3\% | 0.1\% | 0.5\% | 1.7\% | (D) |
| Transportation \& Warehousing | 36 | 48-49 | 2.7\% | 3.3\% | 2.6\% | 3.5\% | (D) | 4.1\% | (D) | 3.3\% | 3.1\% | 2.6\% |
| Trade | 88 |  | 11.7\% | 12.2\% | 7.3\% | (D) | 16.9\% | (D) | 10.0\% | 12.4\% | 11.5\% | 8.9\% |
| Wholesale Trade | 34 | 42 | 6.0\% | 6.2\% | 2.3\% | (D) | 9.6\% | (D) | 4.6\% | 4.0\% | 2.6\% | 3.3\% |
| Retail Trade | 35 | 44-45 | 5.8\% | 6.0\% | 5.0\% | 5.2\% | 7.3\% | 6.6\% | 5.5\% | 8.4\% | 8.9\% | 5.6\% |
| Information | 45 | 51 | 5.6\% | 2.5\% | 0.4\% | 0.6\% | 1.4\% | 1.2\% | 0.8\% | 2.0\% | 2.4\% | 0.6\% |
| Finance-Insurance-Real Estate, etc. | 50 |  | 22.0\% | 22.7\% | 22.7\% | 12.1\% | 17.9\% | 19.4\% | 20.4\% | 18.1\% | 14.8\% | 15.4\% |
| Finance \& Insurance | 51 | 52 | 8.6\% | 11.3\% | 4.2\% | 3.0\% | 3.8\% | 4.5\% | 7.0\% | 6.1\% | 4.1\% | 3.7\% |
| Real Estate-Rental-Leasing | 56 | 53 | 13.4\% | 11.4\% | 18.5\% | 9.2\% | 14.0\% | 14.9\% | 13.4\% | 12.0\% | 10.6\% | 11.7\% |
| Professional \& Business Services | 59 |  | 12.9\% | 11.6\% | 5.4\% | 46.1\% | 6.6\% | (D) | 6.2\% | 6.2\% | 4.4\% | 4.8\% |
| Professional-Scientific-Technical | 60 | 54 | 7.8\% | 5.2\% | 1.4\% | (D) | 3.3\% | (D) | 1.6\% | 1.8\% | 1.0\% | 1.1\% |
| Enterprise Management | 64 | 55 | 2.0\% | 3.4\% | 2.1\% | (D) | 1.7\% | (D) | 2.5\% | 0.9\% | 1.6\% | 2.0\% |
| Administrative Support \& Waste Mgt. | 65 | 56 | 3.1\% | 3.0\% | 1.9\% | 38.4\% | 1.5\% | 1.1\% | 2.0\% | 3.5\% | 1.7\% | 1.7\% |
| Education-Health Care-Social Assistance | 68 |  | 8.6\% | 9.5\% | 6.5\% | 7.5\% | 5.0\% | 4.1\% | 4.9\% | 10.9\% | 15.8\% | (D) |
| Educational Services | 69 | 61 | 1.2\% | 0.8\% | (D) | (D) | 0.5\% | 0.1\% | 0.3\% | 0.5\% | (D) | (D) |
| Health Care \& Social Assistance | 70 | 62 | 7.4\% | 8.7\% | (D) | (D) | 4.4\% | 4.0\% | 4.6\% | 10.4\% | (D) | (D) |
| Leisure \& Hospitality | 75 |  | 3.2\% | 3.0\% | 2.3\% | (D) | 2.8\% | 2.2\% | 1.5\% | 3.2\% | 3.5\% | 2.1\% |
| Arts-Entertainment-Recreation | 76 | 71 | 0.8\% | 0.8\% | 0.2\% | (D) | 0.3\% | 0.1\% | 0.2\% | 0.4\% | 0.2\% | 0.3\% |
| Accommodation \& Food Services | 79 | 72 | 2.4\% | 2.1\% | 2.0\% | (D) | 2.5\% | 2.2\% | 1.3\% | 2.8\% | 3.3\% | 1.8\% |
| Other Services (exc. Government) | 82 | 81 | 2.0\% | 2.0\% | 2.2\% | 1.6\% | 2.1\% | 2.5\% | 2.3\% | 2.2\% | 1.9\% | 1.9\% |
| Governments \& Their Enterprises | 83 | 92 | 12.8\% | 11.2\% | 17.4\% | 9.6\% | 17.4\% | 10.6\% | 9.2\% | 14.2\% | 22.6\% | 7.7\% |
| Not Disclosed by Most-Specific Industry* |  |  | 0.0\% | 0.0\% | 6.5\% | 17.9\% | 2.6\% | 7.6\% | 9.6\% | 0.0\% | 15.8\% | 9.7\% |

Notes and Abbreviations: ${ }^{\wedge}$ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p-part; 0.0\% may also mean less than $0.05 \%$. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: 2020 GDP by County and Sector (in millions)

| Industry Title | Codes |  | U.S. | Ohio | Scioto | Seneca | Shelby | Stark | Summit | Trumbull Tuscarawas |  | Union |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | \$20,893,746 | \$677,561 | \$2,697.1 | \$2,111.1 | \$3,386.1 | \$16,834.9 | \$30,612.0 | \$7,088.1 | \$3,925.6 | \$4,644.8 |
| Private industries | 2 |  | \$18,223,132 | \$601,897 | \$2,260.6 | \$1,899.3 | \$3,185.6 | \$15,226.3 | \$27,851.6 | \$6,283.8 | \$3,508.0 | \$4,276.1 |
| Goods-producing Industries | 91 |  | \$3,524,445 | \$139,369 | \$571.7 | \$753.6 | (D) | \$4,437.3 | \$5,203.3 | \$1,416.4 | \$1,362.9 | \$1,849.6 |
| Natural Resources \& Mining | 87 |  | \$356,627 | \$7,982 | \$4.5 | \$95.3 | (D) | \$64.2 | \$20.3 | \$46.5 | \$184.0 | \$118.7 |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | \$174,527 | \$3,915 | \$4.3 | \$60.1 | (D) | \$20.7 | \$8.2 | \$36.3 | \$46.9 | \$108.3 |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | \$182,099 | \$4,066 | \$0.2 | \$35.2 | \$0.0 | \$43.5 | \$12.1 | \$10.2 | \$137.1 | \$10.4 |
| Construction | 11 | 23 | \$895,860 | \$26,084 | \$89.7 | \$101.1 | \$180.1 | \$747.8 | \$1,526.5 | \$398.5 | \$215.7 | \$163.9 |
| Manufacturing | 12 | 31-33 | \$2,271,960 | \$105,303 | \$477.6 | \$557.2 | \$1,770.1 | \$3,625.3 | \$3,656.5 | \$971.4 | \$963.2 | \$1,567.0 |
| Durable Goods Mfg. | 13 | 32p-33 | \$1,268,834 | \$57,594 | \$81.8 | \$321.4 | \$1,144.8 | \$1,941.3 | \$1,930.7 | \$823.7 | \$530.8 | \$868.0 |
| Non-durable Goods Mfg. | 25 | 31-32p | \$1,003,125 | \$47,709 | \$395.8 | \$235.8 | \$625.3 | \$1,684.0 | \$1,725.9 | \$147.8 | \$432.4 | \$698.9 |
| Services-Providing Industries | 92 |  | \$14,698,687 | \$462,529 | \$1,688.9 | \$1,145.7 | (D) | \$10,789.0 | \$22,648.3 | \$4,867.4 | \$2,145.2 | \$2,426.5 |
| Transportation \& Utilities | 89 |  | \$913,741 | \$33,023 | \$182.1 | \$91.8 | (D) | \$467.7 | \$969.8 | \$655.6 | \$156.3 | \$149.9 |
| Utilities | 10 | 22 | \$341,717 | \$10,907 | \$45.7 | \$17.3 | \$8.5 | \$100.2 | \$184.0 | \$420.4 | \$19.1 | \$14.4 |
| Transportation \& Warehousing | 36 | 48-49 | \$572,021 | \$22,116 | \$136.4 | \$74.5 | (D) | \$367.5 | \$785.8 | \$235.2 | \$137.3 | \$135.5 |
| Trade | 88 |  | \$2,445,476 | \$82,410 | \$246.2 | \$264.1 | \$285.4 | \$2,250.1 | \$4,697.8 | \$926.9 | \$482.0 | \$682.5 |
| Wholesale Trade | 34 | 42 | \$1,243,274 | \$41,728 | \$42.7 | \$114.1 | \$161.1 | \$986.0 | \$2,272.4 | \$325.9 | \$168.7 | \$472.6 |
| Retail Trade | 35 | 44-45 | \$1,202,203 | \$40,682 | \$203.5 | \$150.0 | \$124.3 | \$1,264.0 | \$2,425.4 | \$601.0 | \$313.4 | \$209.9 |
| Information | 45 | 51 | \$1,167,921 | \$17,117 | \$21.2 | \$12.5 | \$20.1 | \$236.5 | \$1,052.6 | \$134.8 | \$32.4 | \$49.6 |
| Finance-Insurance-Real Estate, etc. | 50 |  | \$4,592,105 | \$153,758 | \$458.3 | \$380.2 | \$359.9 | \$3,496.4 | \$6,504.8 | \$1,708.7 | \$699.0 | \$488.4 |
| Finance \& Insurance | 51 | 52 | \$1,787,746 | \$76,444 | \$138.6 | \$160.3 | \$114.8 | \$1,449.0 | \$2,979.2 | \$390.9 | \$204.3 | \$125.8 |
| Real Estate-Rental-Leasing | 56 | 53 | \$2,804,359 | \$77,313 | \$319.7 | \$219.9 | \$245.1 | \$2,047.5 | \$3,525.6 | \$1,317.8 | \$494.7 | \$362.6 |
| Professional \& Business Services | 59 |  | \$2,689,775 | \$78,334 | \$123.3 | \$111.1 | \$154.5 | \$1,421.3 | \$4,488.4 | \$411.0 | \$280.8 | \$821.9 |
| Professional-Scientific-Technical | 60 | 54 | \$1,627,764 | \$35,484 | \$52.1 | \$34.7 | \$45.8 | \$660.9 | \$1,677.5 | \$97.4 | \$101.4 | (D) |
| Enterprise Management | 64 | 55 | \$410,456 | \$22,808 | \$41.2 | \$40.5 | \$35.2 | \$198.8 | \$1,773.3 | \$81.0 | \$45.4 | (D) |
| Administrative Support \& Waste Mgt. | 65 | 56 | \$651,554 | \$20,043 | \$30.0 | \$35.9 | \$73.5 | \$561.6 | \$1,037.5 | \$232.6 | \$133.9 | \$285.2 |
| Education-Health Care-Social Assistance | 68 |  | \$1,798,603 | \$64,348 | \$526.4 | \$188.6 | \$125.0 | \$1,927.9 | \$3,401.3 | \$635.7 | \$282.8 | \$104.0 |
| Educational Services | 69 | 61 | \$251,318 | \$5,693 | \$6.3 | \$55.6 | \$5.4 | \$156.6 | \$170.7 | \$27.4 | \$6.7 | \$5.2 |
| Health Care \& Social Assistance | 70 | 62 | \$1,547,286 | \$58,655 | \$520.2 | \$133.1 | \$119.6 | \$1,771.3 | \$3,230.6 | \$608.3 | \$276.1 | \$98.8 |
| Leisure \& Hospitality | 75 |  | \$672,078 | \$20,112 | \$70.8 | \$52.8 | \$37.3 | \$560.2 | \$923.7 | \$208.1 | \$109.8 | \$59.8 |
| Arts-Entertainment-Recreation | 76 | 71 | \$163,359 | \$5,688 | \$2.7 | \$4.1 | \$3.6 | \$94.5 | \$260.7 | \$22.4 | \$12.6 | \$8.0 |
| Accommodation \& Food Services | 79 | 72 | \$508,719 | \$14,424 | \$68.1 | \$48.8 | \$33.7 | \$465.7 | \$663.0 | \$185.8 | \$97.3 | \$51.9 |
| Other Services (exc. Government) | 82 | 81 | \$418,990 | \$13,429 | \$60.5 | \$44.6 | \$51.8 | \$428.8 | \$610.0 | \$186.4 | \$102.0 | \$70.4 |
| Governments \& Their Enterprises | 83 | 92 | \$2,670,611 | \$75,664 | \$436.5 | \$211.8 | \$200.6 | \$1,608.6 | \$2,760.3 | \$804.3 | \$417.5 | \$368.7 |
| Not Disclosed by Most-Specific Industry* |  |  | \$0 | \$0 | \$0.0 | \$0.0 | \$192.8 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$536.7 |

Notes and Abbreviations: ^ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p - part; \$0.0 may also mean less than $\$ 500,000$. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: 2020 GDP by County and Sector - Percentage Distribution

| Industry Title | Codes |  | U.S. | Ohio | Scioto | Seneca | Shelby | Stark | Summit | Trumbull Tuscarawas |  | Union |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% |
| Private industries | 2 |  | 87.2\% | 88.8\% | 83.8\% | 90.0\% | 94.1\% | 90.4\% | 91.0\% | 88.7\% | 89.4\% | 92.1\% |
| Goods-producing Industries | 91 |  | 16.9\% | 20.6\% | 21.2\% | 35.7\% | (D) | 26.4\% | 17.0\% | 20.0\% | 34.7\% | 39.8\% |
| Natural Resources \& Mining | 87 |  | 1.7\% | 1.2\% | 0.2\% | 4.5\% | (D) | 0.4\% | 0.1\% | 0.7\% | 4.7\% | 2.6\% |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | 0.8\% | 0.6\% | 0.2\% | 2.8\% | (D) | 0.1\% | 0.0\% | 0.5\% | 1.2\% | 2.3\% |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | 0.9\% | 0.6\% | 0.0\% | 1.7\% | (D) | 0.3\% | 0.0\% | 0.1\% | 3.5\% | 0.2\% |
| Construction | 11 | 23 | 4.3\% | 3.8\% | 3.3\% | 4.8\% | 5.3\% | 4.4\% | 5.0\% | 5.6\% | 5.5\% | 3.5\% |
| Manufacturing | 12 | 31-33 | 10.9\% | 15.5\% | 17.7\% | 26.4\% | 52.3\% | 21.5\% | 11.9\% | 13.7\% | 24.5\% | 33.7\% |
| Durable Goods Mfg. |  | 32p-33 | 6.1\% | 8.5\% | 3.0\% | 15.2\% | 33.8\% | 11.5\% | 6.3\% | 11.6\% | 13.5\% | 18.7\% |
| Non-durable Goods Mfg. |  | 31-32p | 4.8\% | 7.0\% | 14.7\% | 11.2\% | 18.5\% | 10.0\% | 5.6\% | 2.1\% | 11.0\% | 15.0\% |
| Services-Providing Industries | 92 |  | 70.3\% | 68.3\% | 62.6\% | 54.3\% | (D) | 64.1\% | 74.0\% | 68.7\% | 54.6\% | 52.2\% |
| Transportation \& Utilities | 89 |  | 4.4\% | 4.9\% | 6.8\% | 4.3\% | (D) | 2.8\% | 3.2\% | 9.2\% | 4.0\% | 3.2\% |
| Utilities | 10 | 22 | 1.6\% | 1.6\% | 1.7\% | 0.8\% | 0.3\% | 0.6\% | 0.6\% | 5.9\% | 0.5\% | 0.3\% |
| Transportation \& Warehousing | 36 | 48-49 | 2.7\% | 3.3\% | 5.1\% | 3.5\% | (D) | 2.2\% | 2.6\% | 3.3\% | 3.5\% | 2.9\% |
| Trade | 88 |  | 11.7\% | 12.2\% | 9.1\% | 12.5\% | 8.4\% | 13.4\% | 15.3\% | 13.1\% | 12.3\% | 14.7\% |
| Wholesale Trade | 34 | 42 | 6.0\% | 6.2\% | 1.6\% | 5.4\% | 4.8\% | 5.9\% | 7.4\% | 4.6\% | 4.3\% | 10.2\% |
| Retail Trade | 35 | 44-45 | 5.8\% | 6.0\% | 7.5\% | 7.1\% | 3.7\% | 7.5\% | 7.9\% | 8.5\% | 8.0\% | 4.5\% |
| Information | 45 | 51 | 5.6\% | 2.5\% | 0.8\% | 0.6\% | 0.6\% | 1.4\% | 3.4\% | 1.9\% | 0.8\% | 1.1\% |
| Finance-Insurance-Real Estate, etc. | 50 |  | 22.0\% | 22.7\% | 17.0\% | 18.0\% | 10.6\% | 20.8\% | 21.2\% | 24.1\% | 17.8\% | 10.5\% |
| Finance \& Insurance | 51 | 52 | 8.6\% | 11.3\% | 5.1\% | 7.6\% | 3.4\% | 8.6\% | 9.7\% | 5.5\% | 5.2\% | 2.7\% |
| Real Estate-Rental-Leasing | 56 | 53 | 13.4\% | 11.4\% | 11.9\% | 10.4\% | 7.2\% | 12.2\% | 11.5\% | 18.6\% | 12.6\% | 7.8\% |
| Professional \& Business Services | 59 |  | 12.9\% | 11.6\% | 4.6\% | 5.3\% | 4.6\% | 8.4\% | 14.7\% | 5.8\% | 7.2\% | 17.7\% |
| Professional-Scientific-Technical | 60 | 54 | 7.8\% | 5.2\% | 1.9\% | 1.6\% | 1.4\% | 3.9\% | 5.5\% | 1.4\% | 2.6\% | (D) |
| Enterprise Management | 64 | 55 | 2.0\% | 3.4\% | 1.5\% | 1.9\% | 1.0\% | 1.2\% | 5.8\% | 1.1\% | 1.2\% | (D) |
| Administrative Support \& Waste Mgt. | 65 | 56 | 3.1\% | 3.0\% | 1.1\% | 1.7\% | 2.2\% | 3.3\% | 3.4\% | 3.3\% | 3.4\% | 6.1\% |
| Education-Health Care-Social Assistance | 68 |  | 8.6\% | 9.5\% | 19.5\% | 8.9\% | 3.7\% | 11.5\% | 11.1\% | 9.0\% | 7.2\% | 2.2\% |
| Educational Services | 69 | 61 | 1.2\% | 0.8\% | 0.2\% | 2.6\% | 0.2\% | 0.9\% | 0.6\% | 0.4\% | 0.2\% | 0.1\% |
| Health Care \& Social Assistance | 70 | 62 | 7.4\% | 8.7\% | 19.3\% | 6.3\% | 3.5\% | 10.5\% | 10.6\% | 8.6\% | 7.0\% | 2.1\% |
| Leisure \& Hospitality | 75 |  | 3.2\% | 3.0\% | 2.6\% | 2.5\% | 1.1\% | 3.3\% | 3.0\% | 2.9\% | 2.8\% | 1.3\% |
| Arts-Entertainment-Recreation | 76 | 71 | 0.8\% | 0.8\% | 0.1\% | 0.2\% | 0.1\% | 0.6\% | 0.9\% | 0.3\% | 0.3\% | 0.2\% |
| Accommodation \& Food Services | 79 | 72 | 2.4\% | 2.1\% | 2.5\% | 2.3\% | 1.0\% | 2.8\% | 2.2\% | 2.6\% | 2.5\% | 1.1\% |
| Other Services (exc. Government) | 82 | 81 | 2.0\% | 2.0\% | 2.2\% | 2.1\% | 1.5\% | 2.5\% | 2.0\% | 2.6\% | 2.6\% | 1.5\% |
| Governments \& Their Enterprises | 83 | 92 | 12.8\% | 11.2\% | 16.2\% | 10.0\% | 5.9\% | 9.6\% | 9.0\% | 11.3\% | 10.6\% | 7.9\% |
| Not Disclosed by Most-Specific Industry* |  |  | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 11.6\% |

Notes and Abbreviations: ${ }^{\wedge}$ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p-part; 0.0\% may also mean less than 0.05\%. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: 2020 GDP by County and Sector (in millions)

| Industry Title |  | des | U.S. | Ohio | Van Wert | Vinton | Warren Washington |  | Wayne | Williams | Wood | Wyandot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | \$20,893,746 | \$677,561 | \$1,312.7 | \$292.8 | \$12,723.8 | \$3,652.2 | \$6,591.7 | \$1,829.8 | \$7,716.4 | \$1,083.8 |
| Private industries | 2 |  | \$18,223,132 | \$601,897 | \$1,197.1 | \$242.9 | \$11,771.0 | \$3,407.7 | \$6,050.4 | \$1,667.8 | \$6,816.4 | \$968.1 |
| Goods-producing Industries | 91 |  | \$3,524,445 | \$139,369 | \$393.7 | \$105.1 | \$2,707.8 | \$901.7 | \$3,128.7 | \$734.5 | \$2,591.7 | \$596.1 |
| Natural Resources \& Mining | 87 |  | \$356,627 | \$7,982 | \$111.6 | \$5.5 | \$29.1 | \$58.0 | \$188.0 | \$53.8 | \$91.8 | \$99.8 |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | \$174,527 | \$3,915 | \$108.4 | \$3.5 | \$24.3 | \$16.4 | \$156.8 | \$49.7 | \$74.1 | \$65.3 |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | \$182,099 | \$4,066 | \$3.1 | \$2.1 | \$4.8 | \$41.6 | \$31.2 | \$4.1 | \$17.7 | \$34.5 |
| Construction | 11 | 23 | \$895,860 | \$26,084 | \$39.9 | \$8.8 | \$542.6 | \$143.7 | \$312.4 | \$53.7 | \$392.2 | \$89.7 |
| Manufacturing | 12 | 31-33 | \$2,271,960 | \$105,303 | \$242.3 | \$90.8 | \$2,136.0 | \$700.0 | \$2,628.4 | \$627.0 | \$2,107.7 | \$406.7 |
| Durable Goods Mfg. | 13 | 32p-33 | \$1,268,834 | \$57,594 | \$209.3 | \$15.5 | \$1,358.3 | \$252.8 | \$925.6 | \$401.0 | \$1,255.5 | \$207.2 |
| Non-durable Goods Mfg. | 25 | 31-32p | \$1,003,125 | \$47,709 | \$33.0 | \$75.4 | \$777.7 | \$447.2 | \$1,702.8 | \$226.0 | \$852.1 | \$199.5 |
| Services-Providing Industries | 92 |  | \$14,698,687 | \$462,529 | \$803.4 | \$137.8 | \$9,063.2 | \$2,506.0 | \$2,921.6 | \$933.3 | \$4,224.6 | \$371.9 |
| Transportation \& Utilities | 89 |  | \$913,741 | \$33,023 | \$96.4 | \$17.1 | \$253.8 | \$854.8 | \$166.6 | (D) | \$575.0 | (D) |
| Utilities | 10 | 22 | \$341,717 | \$10,907 | \$68.7 | \$1.5 | \$8.0 | \$764.7 | \$16.9 | \$9.1 | \$95.8 | \$3.7 |
| Transportation \& Warehousing | 36 | 48-49 | \$572,021 | \$22,116 | \$27.7 | \$15.5 | \$245.8 | \$90.1 | \$149.6 | (D) | \$479.2 | (D) |
| Trade | 88 |  | \$2,445,476 | \$82,410 | \$159.1 | (D) | \$1,833.7 | \$307.2 | \$730.0 | \$318.1 | \$897.3 | \$90.4 |
| Wholesale Trade | 34 | 42 | \$1,243,274 | \$41,728 | \$84.1 | (D) | \$919.8 | \$110.6 | \$352.1 | \$131.0 | \$502.9 | \$29.8 |
| Retail Trade | 35 | 44-45 | \$1,202,203 | \$40,682 | \$74.9 | \$10.2 | \$913.9 | \$196.6 | \$377.9 | \$187.1 | \$394.5 | \$60.6 |
| Information | 45 | 51 | \$1,167,921 | \$17,117 | \$4.4 | (D) | \$229.1 | \$17.1 | \$64.1 | \$12.5 | \$241.4 | \$6.2 |
| Finance-Insurance-Real Estate, etc. | 50 |  | \$4,592,105 | \$153,758 | \$306.4 | \$71.9 | \$2,779.0 | \$564.5 | \$1,064.5 | \$274.1 | \$1,245.2 | \$153.4 |
| Finance \& Insurance | 51 | 52 | \$1,787,746 | \$76,444 | \$165.8 | \$21.3 | \$1,089.3 | \$235.3 | \$449.3 | \$94.5 | \$363.7 | \$63.4 |
| Real Estate-Rental-Leasing | 56 | 53 | \$2,804,359 | \$77,313 | \$140.6 | \$50.6 | \$1,689.7 | \$329.1 | \$615.2 | \$179.6 | \$881.5 | \$90.0 |
| Professional \& Business Services | 59 |  | \$2,689,775 | \$78,334 | \$72.8 | \$5.8 | \$2,350.2 | \$177.9 | \$287.4 | (D) | \$513.6 | (D) |
| Professional-Scientific-Technical | 60 | 54 | \$1,627,764 | \$35,484 | (D) | (D) | \$610.9 | \$66.3 | \$106.1 | (D) | \$202.8 | (D) |
| Enterprise Management | 64 | 55 | \$410,456 | \$22,808 | (D) | (D) | \$1,365.3 | \$62.6 | \$125.9 | (D) | \$135.8 | (D) |
| Administrative Support \& Waste Mgt. | 65 | 56 | \$651,554 | \$20,043 | \$24.4 | \$2.3 | \$374.1 | \$49.1 | \$55.4 | \$21.9 | \$174.9 | \$15.0 |
| Education-Health Care-Social Assistance | 68 |  | \$1,798,603 | \$64,348 | \$112.2 | \$19.2 | \$814.0 | \$461.6 | \$379.0 | \$123.6 | \$398.8 | \$25.7 |
| Educational Services | 69 | 61 | \$251,318 | \$5,693 | \$1.8 | \$0.0 | \$96.0 | \$39.1 | \$81.0 | \$3.2 | \$25.8 | (D) |
| Health Care \& Social Assistance | 70 | 62 | \$1,547,286 | \$58,655 | \$110.4 | \$19.1 | \$718.0 | \$422.5 | \$298.0 | \$120.5 | \$373.0 | (D) |
| Leisure \& Hospitality | 75 |  | \$672,078 | \$20,112 | \$21.7 | \$3.5 | \$476.2 | \$65.6 | \$96.6 | \$26.6 | \$196.0 | \$11.3 |
| Arts-Entertainment-Recreation | 76 | 71 | \$163,359 | \$5,688 | \$2.8 | (D) | \$199.2 | \$4.2 | \$11.6 | \$0.7 | \$15.2 | \$0.3 |
| Accommodation \& Food Services | 79 | 72 | \$508,719 | \$14,424 | \$18.9 | (D) | \$276.9 | \$61.3 | \$85.0 | \$25.9 | \$180.8 | \$10.9 |
| Other Services (exc. Government) | 82 | 81 | \$418,990 | \$13,429 | \$30.4 | (D) | \$327.2 | \$57.3 | \$133.5 | \$36.2 | \$157.3 | \$24.4 |
| Governments \& Their Enterprises | 83 | 92 | \$2,670,611 | \$75,664 | \$115.5 | \$49.9 | \$952.8 | \$244.5 | \$541.3 | \$162.0 | \$900.0 | \$115.7 |
| Not Disclosed by Most-Specific Industry* |  |  | \$0 | \$0 | \$48.5 | \$17.2 | \$0.0 | \$0.0 | \$0.0 | \$111.2 | \$0.0 | \$67.7 |

Notes and Abbreviations: ^ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; *-using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p - part; \$0.0 may also mean less than $\$ 500,000$. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

Table A2: $\mathbf{2 0 2 0}$ GDP by County and Sector - Percentage Distribution

| Industry Title | Codes |  | U.S. | Ohio | Van Wert | Vinton | Warren | Washington | Wayne | Williams | Wood | Wyandot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Line | NAICS |  |  |  |  |  |  |  |  |  |  |
| Total | 1 |  | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% |
| Private industries | 2 |  | 87.2\% | 88.8\% | 91.2\% | 83.0\% | 92.5\% | 93.3\% | 91.8\% | 91.1\% | 88.3\% | 89.3\% |
| Goods-producing Industries | 91 |  | 16.9\% | 20.6\% | 30.0\% | 35.9\% | 21.3\% | 24.7\% | 47.5\% | 40.1\% | 33.6\% | 55.0\% |
| Natural Resources \& Mining | 87 |  | 1.7\% | 1.2\% | 8.5\% | 1.9\% | 0.2\% | 1.6\% | 2.9\% | 2.9\% | 1.2\% | 9.2\% |
| Agriculture-Forestry-Fishing-Hunting | 3 | 11 | 0.8\% | 0.6\% | 8.3\% | 1.2\% | 0.2\% | 0.4\% | 2.4\% | 2.7\% | 1.0\% | 6.0\% |
| Mining-Quarrying-Oil \& Gas Extraction | 6 | 21 | 0.9\% | 0.6\% | 0.2\% | 0.7\% | 0.0\% | 1.1\% | 0.5\% | 0.2\% | 0.2\% | 3.2\% |
| Construction | 11 | 23 | 4.3\% | 3.8\% | 3.0\% | 3.0\% | 4.3\% | 3.9\% | 4.7\% | 2.9\% | 5.1\% | 8.3\% |
| Manufacturing | 12 | 31-33 | 10.9\% | 15.5\% | 18.5\% | 31.0\% | 16.8\% | 19.2\% | 39.9\% | 34.3\% | 27.3\% | 37.5\% |
| Durable Goods Mfg. | 13 | 32p-33 | 6.1\% | 8.5\% | 15.9\% | 5.3\% | 10.7\% | 6.9\% | 14.0\% | 21.9\% | 16.3\% | 19.1\% |
| Non-durable Goods Mfg. |  | 31-32p | 4.8\% | 7.0\% | 2.5\% | 25.7\% | 6.1\% | 12.2\% | 25.8\% | 12.4\% | 11.0\% | 18.4\% |
| Services-Providing Industries | 92 |  | 70.3\% | 68.3\% | 61.2\% | 47.1\% | 71.2\% | 68.6\% | 44.3\% | 51.0\% | 54.7\% | 34.3\% |
| Transportation \& Utilities | 89 |  | 4.4\% | 4.9\% | 7.3\% | 5.8\% | 2.0\% | 23.4\% | 2.5\% | (D) | 7.5\% | (D) |
| Utilities | 10 | 22 | 1.6\% | 1.6\% | 5.2\% | 0.5\% | 0.1\% | 20.9\% | 0.3\% | 0.5\% | 1.2\% | 0.3\% |
| Transportation \& Warehousing | 36 | 48-49 | 2.7\% | 3.3\% | 2.1\% | 5.3\% | 1.9\% | 2.5\% | 2.3\% | (D) | 6.2\% | (D) |
| Trade | 88 |  | 11.7\% | 12.2\% | 12.1\% | (D) | 14.4\% | 8.4\% | 11.1\% | 17.4\% | 11.6\% | 8.3\% |
| Wholesale Trade | 34 | 42 | 6.0\% | 6.2\% | 6.4\% | (D) | 7.2\% | 3.0\% | 5.3\% | 7.2\% | 6.5\% | 2.7\% |
| Retail Trade | 35 | 44-45 | 5.8\% | 6.0\% | 5.7\% | 3.5\% | 7.2\% | 5.4\% | 5.7\% | 10.2\% | 5.1\% | 5.6\% |
| Information | 45 | 51 | 5.6\% | 2.5\% | 0.3\% | (D) | 1.8\% | 0.5\% | 1.0\% | 0.7\% | 3.1\% | 0.6\% |
| Finance-Insurance-Real Estate, etc. | 50 |  | 22.0\% | 22.7\% | 23.3\% | 24.5\% | 21.8\% | 15.5\% | 16.1\% | 15.0\% | 16.1\% | 14.2\% |
| Finance \& Insurance | 51 | 52 | 8.6\% | 11.3\% | 12.6\% | 7.3\% | 8.6\% | 6.4\% | 6.8\% | 5.2\% | 4.7\% | 5.8\% |
| Real Estate-Rental-Leasing | 56 | 53 | 13.4\% | 11.4\% | 10.7\% | 17.3\% | 13.3\% | 9.0\% | 9.3\% | 9.8\% | 11.4\% | 8.3\% |
| Professional \& Business Services | 59 |  | 12.9\% | 11.6\% | 5.5\% | 2.0\% | 18.5\% | 4.9\% | 4.4\% | (D) | 6.7\% | (D) |
| Professional-Scientific-Technical | 60 | 54 | 7.8\% | 5.2\% | (D) | (D) | 4.8\% | 1.8\% | 1.6\% | (D) | 2.6\% | (D) |
| Enterprise Management | 64 | 55 | 2.0\% | 3.4\% | (D) | (D) | 10.7\% | 1.7\% | 1.9\% | (D) | 1.8\% | (D) |
| Administrative Support \& Waste Mgt. | 65 | 56 | 3.1\% | 3.0\% | 1.9\% | 0.8\% | 2.9\% | 1.3\% | 0.8\% | 1.2\% | 2.3\% | 1.4\% |
| Education-Health Care-Social Assistance | 68 |  | 8.6\% | 9.5\% | 8.5\% | 6.5\% | 6.4\% | 12.6\% | 5.8\% | 6.8\% | 5.2\% | 2.4\% |
| Educational Services | 69 | 61 | 1.2\% | 0.8\% | 0.1\% | 0.0\% | 0.8\% | 1.1\% | 1.2\% | 0.2\% | 0.3\% | (D) |
| Health Care \& Social Assistance | 70 | 62 | 7.4\% | 8.7\% | 8.4\% | 6.5\% | 5.6\% | 11.6\% | 4.5\% | 6.6\% | 4.8\% | (D) |
| Leisure \& Hospitality | 75 |  | 3.2\% | 3.0\% | 1.7\% | 1.2\% | 3.7\% | 1.8\% | 1.5\% | 1.5\% | 2.5\% | 1.0\% |
| Arts-Entertainment-Recreation | 76 | 71 | 0.8\% | 0.8\% | 0.2\% | (D) | 1.6\% | 0.1\% | 0.2\% | 0.0\% | 0.2\% | 0.0\% |
| Accommodation \& Food Services | 79 | 72 | 2.4\% | 2.1\% | 1.4\% | (D) | 2.2\% | 1.7\% | 1.3\% | 1.4\% | 2.3\% | 1.0\% |
| Other Services (exc. Government) | 82 | 81 | 2.0\% | 2.0\% | 2.3\% | (D) | 2.6\% | 1.6\% | 2.0\% | 2.0\% | 2.0\% | 2.2\% |
| Governments \& Their Enterprises | 83 | 92 | 12.8\% | 11.2\% | 8.8\% | 17.0\% | 7.5\% | 6.7\% | 8.2\% | 8.9\% | 11.7\% | 10.7\% |
| Not Disclosed by Most-Specific Industry* |  |  | 0.0\% | 0.0\% | 3.7\% | 5.9\% | 0.0\% | 0.0\% | 0.0\% | 6.1\% | 0.0\% | 6.2\% |

Notes and Abbreviations: ${ }^{\wedge}$ - A one-county MA in Ohio or the one Ohio county in a cross-state MA; (D) - suppressed to avoid disclosing confidential information; * - using encompassing high-er-level summaries may reduce this figure; exc. - except; Mfg. - Manufacturing; Mgt. - Management; NAICS - N. American Industry Classification System; p-part; 0.0\% may also mean less than $0.05 \%$. Source: U.S. BEA, table CAGDP2_OH_2001_2020. Prepared by: Office of Research, Ohio Dept. of Development (DL, 12/21).

| 2012 <br> NAICS <br> Codes | Industry Titles | Area | 2000 | 2001^ | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008^ | 2009^ | 2010 | Percent Change |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | `00-01 & 01-07 & `07-09 |  |  |
| 11-92 | Total ${ }^{\text {\# }}$ | U.S. | \$13,138.04 | \$13,263.42 | \$13,488.36 | \$13,865.52 | \$14,399.70 | \$14,901.27 | \$15,315.94 | \$15,623.87 | \$15,642.96 | \$15,236.26 | \$15,648.99 | 1.0\% | 17.8\% | -2.5\% |
|  |  | Ohio | \$509.95 | \$502.97 | \$513.22 | \$519.94 | \$534.06 | \$545.97 | \$545.50 | \$546.73 | \$537.12 | \$511.08 | \$523.98 | -1.4\% | 8.7\% | -6.5\% |
| 11-81 | Private sector ${ }^{\text {\# }}$ | U.S. | \$11,367.62 | \$11,452.47 | \$11,651.91 | \$11,979.33 | \$12,482.78 | \$12,959.74 | \$13,372.85 | \$13,614.57 | \$13,576.37 | \$13,154.66 | \$13,514.21 | 0.7\% | 18.9\% | -3.4\% |
|  |  | Ohio | \$444.47 | \$438.39 | \$448.45 | \$454.92 | \$469.01 | \$481.34 | \$481.69 | \$483.20 | \$473.17 | \$448.25 | \$459.82 | -1.4\% | 10.2\% | -7.2\% |
| 11, 21, 23-33 | Goods producers\# | U.S. | \$2,828.58 | \$2,756.86 | \$2,761.43 | \$2,866.29 | \$3,034.72 | \$3,106.87 | \$3,245.53 | \$3,296.23 | \$3,167.87 | \$2,949.55 | \$2,981.87 | -2.5\% | 19.6\% | -10.5\% |
|  |  | Ohio | \$137.80 | \$127.16 | \$129.53 | \$130.99 | \$138.68 | \$137.67 | \$137.09 | \$134.82 | \$125.27 | \$107.73 | \$111.61 | -7.7\% | 6.0\% | -20.1\% |
| 11 | Agriculture, forestry, fishing \& hunting | U.S. | \$160.31 | \$154.75 | \$160.44 | \$173.56 | \$187.61 | \$196.12 | \$199.40 | \$177.39 | \$177.57 | \$197.38 | \$191.60 | -3.5\% | 14.6\% | 11.3\% |
|  |  | Ohio | \$3.43 | \$3.02 | \$3.04 | \$3.12 | \$3.80 | \$3.55 | \$3.92 | \$3.44 | \$3.37 | \$4.76 | \$4.02 | -12.0\% | 13.6\% | 38.6\% |
| 21 | Mining | U.S. | \$234.65 | \$272.25 | \$279.76 | \$248.02 | \$249.48 | \$253.50 | \$292.85 | \$315.90 | \$305.85 | \$349.75 | \$309.92 | 16.0\% | 16.0\% | 10.7\% |
|  |  | Ohio | \$3.75 | \$3.48 | \$4.07 | \$3.38 | \$3.29 | \$3.05 | \$3.25 | \$3.37 | \$3.22 | \$3.90 | \$3.18 | -7.3\% | -3.1\% | 15.7\% |
| 23 | Construction | U.S. | \$781.61 | \$767.05 | \$742.22 | \$755.06 | \$781.95 | \$785.39 | \$769.64 | \$746.47 | \$673.38 | \$576.92 | \$548.34 | -1.9\% | -2.7\% | -22.7\% |
|  |  | Ohio | \$27.55 | \$25.81 | \$24.56 | \$24.46 | \$24.68 | \$22.93 | \$20.66 | \$19.36 | \$17.89 | \$16.28 | \$15.16 | -6.3\% | -25.0\% | -15.9\% |
| 31-33 | Manufacturing\# | U.S. | \$1,673.68 | \$1,606.89 | \$1,621.11 | \$1,711.85 | \$1,832.65 | \$1,888.06 | \$1,996.78 | \$2,064.67 | \$2,022.15 | \$1,831.89 | \$1,936.23 | -4.0\% | 28.5\% | -11.3\% |
|  |  | Ohio | \$103.71 | \$95.53 | \$98.40 | \$100.17 | \$106.87 | \$107.93 | \$109.20 | \$108.61 | \$100.75 | \$82.90 | \$89.22 | -7.9\% | 13.7\% | -23.7\% |
| 32p \& 33 | Durable goods | U.S. | \$750.69 | \$704.14 | \$719.05 | \$772.89 | \$828.32 | \$885.37 | \$953.97 | \$999.17 | \$1,004.51 | \$858.23 | \$968.84 | -6.2\% | 41.9\% | -14.1\% |
|  |  | Ohio | \$59.66 | \$52.71 | \$53.97 | \$55.33 | \$60.21 | \$62.68 | \$63.03 | \$62.02 | \$58.85 | \$38.48 | \$45.23 | -11.6\% | 17.7\% | -37.9\% |
| 31 \& 32p | Nondurable goods | U.S. | \$964.05 | \$955.95 | \$949.26 | \$979.30 | \$1,046.89 | \$1,028.26 | \$1,061.69 | \$1,080.01 | \$1,023.73 | \$992.24 | \$974.82 | -0.8\% | 13.0\% | -8.1\% |
|  |  | Ohio | \$42.40 | \$42.54 | \$44.30 | \$44.52 | \$45.75 | \$43.47 | \$44.52 | \$45.20 | \$40.19 | \$45.50 | \$44.35 | 0.3\% | 6.3\% | 0.7\% |
| 22, 42-81 | Service providers ${ }^{\text {17 }}$ | U.S. | \$8,544.58 | \$8,700.27 | \$8,894.03 | \$9,117.78 | \$9,454.62 | \$9,858.74 | \$10,133.61 | \$10,324.82 | \$10,414.45 | \$10,207.75 | \$10,532.97 | 1.8\% | 18.7\% | -1.1\% |
|  |  | Ohio | \$307.78 | \$312.36 | \$320.07 | \$325.09 | \$331.68 | \$344.83 | \$345.74 | \$349.35 | \$348.39 | \$340.38 | \$348.13 | 1.5\% | 11.8\% | -2.6\% |
| 22 | Utilities | U.S. | \$258.04 | \$214.83 | \$222.24 | \$218.32 | \$231.56 | \$219.70 | \$233.94 | \$239.06 | \$251.29 | \$236.78 | \$266.35 | -16.7\% | 11.3\% | -1.0\% |
|  |  | Ohio | \$10.57 | \$8.68 | \$8.53 | \$7.81 | \$7.78 | \$7.21 | \$7.60 | \$8.70 | \$9.14 | \$8.75 | \$9.58 | -17.9\% | 0.2\% | 0.6\% |
| 42 | Wholesale trade | U.S. | \$803.12 | \$817.38 | \$827.63 | \$871.69 | \$911.32 | \$952.88 | \$981.76 | \$1,014.36 | \$1,016.80 | \$892.40 | \$944.96 | 1.8\% | 24.1\% | -12.0\% |
|  |  | Ohio | \$30.09 | \$30.79 | \$31.04 | \$32.33 | \$33.27 | \$34.47 | \$35.63 | \$36.42 | \$36.66 | \$31.68 | \$33.20 | 2.3\% | 18.3\% | -13.0\% |
| 44-45 | Retail trade | U.S. | \$820.16 | \$850.87 | \$888.18 | \$934.28 | \$950.13 | \$980.90 | \$989.00 | \$957.18 | \$921.43 | \$880.98 | \$901.12 | 3.7\% | 12.5\% | -8.0\% |
|  |  | Ohio | \$33.92 | \$34.81 | \$35.84 | \$38.05 | \$37.83 | \$37.50 | \$35.15 | \$33.93 | \$32.49 | \$31.41 | \$31.65 | 2.6\% | -2.5\% | -7.4\% |
| 48-49p | Transportation \& warehousing ${ }^{1}$ | U.S. | \$423.52 | \$395.93 | \$381.82 | \$395.59 | \$428.39 | \$448.98 | \$475.70 | \$472.32 | \$467.93 | \$438.77 | \$460.96 | -6.5\% | 19.3\% | -7.1\% |
|  |  | Ohio | \$15.40 | \$14.51 | \$14.19 | \$14.63 | \$15.65 | \$16.81 | \$17.63 | \$17.40 | \$17.06 | \$15.30 | \$15.46 | -5.8\% | 19.9\% | -12.1\% |
| 51 | Information | U.S. | \$421.42 | \$447.53 | \$490.71 | \$506.37 | \$564.72 | \$602.34 | \$623.90 | \$686.00 | \$729.77 | \$709.61 | \$751.82 | $6.2 \%$ | 53.3\% | 3.4\% |
|  |  | Ohio | \$9.99 | \$10.55 | \$12.03 | \$12.42 | \$12.79 | \$13.37 | \$13.09 | \$14.01 | \$15.00 | \$16.89 | \$19.55 | 5.6\% | 32.8\% | 20.5\% |
| 52 | Finance \& insurance | U.S. | \$915.97 | \$961.79 | \$955.41 | \$940.99 | \$949.19 | \$1,033.87 | \$1,069.95 | \$1,032.05 | \$900.78 | \$1,111.26 | \$1,070.99 | 5.0\% | 7.3\% | 7.7\% |
|  |  | Ohio | \$33.23 | \$32.77 | \$35.85 | \$35.66 | \$36.95 | \$41.82 | \$41.34 | \$39.99 | \$37.76 | \$42.63 | \$39.65 | -1.4\% | 22.0\% | 6.6\% |
| 53 | Real estate, rental \& leasing | U.S. | \$1,536.14 | \$1,614.53 | \$1,636.56 | \$1,668.70 | \$1,709.17 | \$1,801.72 | \$1,826.57 | \$1,929.13 | \$2,001.27 | \$1,949.51 | \$2,033.32 | 5.1\% | 19.5\% | 1.1\% |
|  |  | Ohio | \$53.13 | \$56.82 | \$55.72 | \$54.67 | \$55.57 | \$59.92 | \$59.95 | \$63.82 | \$61.77 | \$59.76 | \$61.49 | 6.9\% | 12.3\% | -6.4\% |
| 54 | Professional, scientific \& technical | U.S. | \$844.01 | \$871.90 | \$892.88 | \$906.11 | \$937.20 | \$972.48 | \$1,010.97 | \$1,049.79 | \$1,131.12 | \$1,066.13 | \$1,094.62 | 3.3\% | 20.4\% | 1.6\% |
|  |  | Ohio | \$22.92 | \$23.78 | \$24.03 | \$23.90 | \$24.42 | \$24.80 | \$25.75 | \$26.66 | \$28.65 | \$27.26 | \$27.74 | 3.7\% | 12.1\% | 2.3\% |
| 55 | Mgt. of companies \& enterprises | U.S. | \$277.52 | \$289.21 | \$286.42 | \$296.23 | \$279.18 | \$279.02 | \$277.92 | \$271.32 | \$272.95 | \$251.82 | \$269.68 | 4.2\% | -6.2\% | -7.2\% |
|  |  | Ohio | \$12.27 | \$13.77 | \$15.41 | \$16.18 | \$15.23 | \$15.88 | \$15.80 | \$14.53 | \$15.00 | \$13.69 | \$14.65 | 12.2\% | 5.6\% | -5.8\% |
| 56 | Administrative support \& waste mgt. | U.S. | \$337.74 | \$343.04 | \$341.37 | \$366.21 | \$384.99 | \$418.65 | \$428.24 | \$452.64 | \$452.86 | \$416.18 | \$445.12 | 1.6\% | 31.9\% | -8.1\% |
|  |  | Ohio | \$12.64 | \$12.43 | \$12.35 | \$13.41 | \$13.88 | \$14.99 | \$14.88 | \$15.82 | \$15.92 | \$14.41 | \$15.45 | -1.6\% | 27.2\% | -8.9\% |
| 61 | Education | U.S. | \$152.46 | \$156.61 | \$157.49 | \$165.08 | \$174.97 | \$171.92 | \$176.29 | \$179.09 | \$190.63 | \$205.89 | \$212.14 | 2.7\% | 14.4\% | 15.0\% |
|  |  | Ohio | \$4.63 | \$4.70 | \$4.66 | \$4.88 | \$5.18 | \$5.13 | \$5.39 | \$5.34 | \$5.62 | \$5.95 | \$6.04 | 1.6\% | 13.4\% | 11.4\% |
| 62 | Health care \& social assistance | U.S. | \$835.18 | \$856.13 | \$894.94 | \$929.43 | \$971.87 | \$995.83 | \$1,038.70 | \$1,045.61 | \$1,111.61 | \$1,140.35 | \$1,149.98 | 2.5\% | 22.1\% | 9.1\% |
|  |  | Ohio | \$36.30 | \$37.66 | \$38.87 | \$40.09 | \$41.86 | \$42.53 | \$44.39 | \$43.54 | \$45.72 | \$46.20 | \$46.11 | 3.7\% | 15.6\% | 6.1\% |
| 71 | Arts, entertainment \& recreation | U.S. | \$137.81 | \$130.14 | \$135.92 | \$140.79 | \$145.45 | \$145.32 | \$149.89 | \$151.68 | \$153.51 | \$151.29 | \$159.16 | -5.6\% | 16.6\% | -0.3\% |
|  |  | Ohio | \$5.68 | \$5.31 | \$5.29 | \$5.54 | \$5.36 | \$4.85 | \$4.46 | \$4.62 | \$4.44 | \$4.63 | \$5.23 | -6.4\% | -12.9\% | 0.2\% |
| 72 | Accommodation \& food services | U.S. | \$424.77 | \$413.69 | \$422.63 | \$432.08 | \$453.12 | \$454.89 | \$466.97 | \$461.82 | \$445.96 | \$412.84 | \$427.24 | -2.6\% | 11.6\% | -10.6\% |
|  |  | Ohio | \$12.93 | \$12.74 | \$12.76 | \$12.90 | \$13.14 | \$12.83 | \$12.48 | \$12.53 | \$11.93 | \$11.06 | \$11.40 | -1.5\% | -1.6\% | -11.7\% |
| 81 | Other services (exc. Government) | U.S. | \$431.28 | \$389.13 | \$399.75 | \$388.60 | \$393.64 | \$396.31 | \$398.38 | \$389.34 | \$374.93 | \$352.48 | \$346.17 | -9.8\% | 0.1\% | -9.5\% |
|  |  | Ohio | \$16.25 | \$15.01 | \$15.21 | \$14.53 | \$14.42 | \$13.55 | \$13.20 | \$12.80 | \$12.07 | \$11.20 | \$11.01 | -7.7\% | -14.7\% | -12.5\% |
| 92 | Government ${ }^{2}$ | U.S. | \$1,977.44 | \$1,998.15 | \$2,033.72 | \$2,058.81 | \$2,077.28 | \$2,096.43 | \$2,108.48 | \$2,129.04 | \$2,170.16 | \$2,171.50 | \$2,182.73 | 1.0\% | 6.6\% | 2.0\% |
|  |  | Ohio | \$65.94 | \$65.03 | \$65.08 | \$65.27 | \$65.16 | \$64.60 | \$63.74 | \$63.43 | \$63.91 | \$62.81 | \$64.13 | -1.4\% | -2.5\% | -1.0\% |

Notes and abbreviations: ^ - a recession year, either partially or entirely, for the nation as a whole; * - preliminary; prior years may be revised; 1 - excludes U.S. Postal Service (NAICS 491); 2 - includes U.S. Postal Service; p-part

-     - components may not sum to totals due to rounding and/or different inflators/deflators used for different sectors; $n$ - a - not available.

Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22)

| 2012 <br> NAICS <br> Codes | Industry Titles | Area | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020^* | Percent Change |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | `09-19 & `19- $20 \times$ | -00-20* |  |
| 11-92 | Total ${ }^{\text {\# }}$ | U.S. | \$15,648.99 | \$15,891.53 | \$16,253.97 | \$16,553.35 | \$16,932.05 | \$17,390.30 | \$17,680.27 | \$18,079.08 | \$18,606.79 | \$19,032.67 | \$18,384.69 | 24.9\% | -3.4\% | 39.9\% |
|  |  | Ohio | \$523.98 | \$541.18 | \$545.74 | \$556.21 | \$574.18 | \$578.85 | \$583.95 | \$590.74 | \$598.92 | \$611.15 | \$589.90 | 19.6\% | -3.5\% | 15.7\% |
| 11-81 | Private sector ${ }^{\text {\# }}$ | U.S. | \$13,514.21 | \$13,747.76 | \$14,094.48 | \$14,359.46 | \$14,745.23 | \$15,197.80 | \$15,468.41 | \$15,852.63 | \$16,358.20 | \$16,773.56 | \$16,142.27 | 27.5\% | -3.8\% | 42.0\% |
|  |  | Ohio | \$459.82 | \$478.00 | \$482.49 | \$494.09 | \$512.79 | \$517.84 | \$522.07 | \$528.33 | \$536.93 | \$548.82 | \$528.27 | 22.4\% | -3.7\% | 18.9\% |
| 11, 21, 23-33 | Goods producers ${ }^{\text {\# }}$ | U.S. | \$2,981.87 | \$2,990.23 | \$3,028.82 | \$3,141.70 | \$3,226.48 | \$3,320.31 | \$3,337.97 | \$3,439.46 | \$3,553.04 | \$3,627.70 | \$3,523.39 | 23.0\% | -2.9\% | 24.6\% |
|  |  | Ohio | \$111.61 | \$119.34 | \$116.19 | \$121.17 | \$131.62 | \$129.77 | \$130.33 | \$133.48 | \$134.41 | \$136.32 | \$134.04 | 26.5\% | -1.7\% | -2.7\% |
| 11 | Agriculture, forestry, fishing \& hunting | U.S. | \$191.60 | \$184.28 | \$178.69 | \$207.51 | \$208.57 | \$221.86 | \$234.55 | \$231.02 | \$237.90 | \$223.34 | \$254.65 | 13.2\% | 14.0\% | 58.8\% |
|  |  | Ohio | \$4.02 | \$4.55 | \$3.77 | \$4.88 | \$4.61 | \$3.81 | \$3.97 | \$4.71 | \$5.56 | \$4.04 | \$5.88 | -15.1\% | 45.5\% | 71.2\% |
| 21 | Mining | U.S. | \$309.92 | \$322.26 | \$360.52 | \$374.02 | \$414.50 | \$451.23 | \$427.23 | \$436.02 | \$436.72 | \$488.27 | \$438.57 | 39.6\% | -10.2\% | 86.9\% |
|  |  | Ohio | \$3.18 | \$3.28 | \$3.12 | \$4.27 | \$5.76 | \$8.60 | \$8.62 | \$7.26 | \$6.82 | \$8.23 | \$10.19 | 111.1\% | 23.7\% | 171.6\% |
| 23 | Construction | U.S. | \$548.34 | \$539.95 | \$554.94 | \$568.27 | \$579.08 | \$605.09 | \$628.16 | \$650.56 | \$665.69 | \$674.74 | \$650.44 | 17.0\% | -3.6\% | -16.8\% |
|  |  | Ohio | \$15.16 | \$16.04 | \$17.24 | \$17.54 | \$17.52 | \$17.81 | \$18.25 | \$19.44 | \$19.34 | \$19.58 | \$18.94 | 20.3\% | -3.3\% | -31.3\% |
| 31-33 | Manufacturing ${ }^{\text {\# }}$ | U.S. | \$1,936.23 | \$1,946.25 | \$1,934.66 | \$1,991.64 | \$2,023.68 | \$2,046.25 | \$2,040.26 | \$2,108.32 | \$2,195.01 | \$2,233.94 | \$2,167.79 | 21.9\% | -3.0\% | 29.5\% |
|  |  | Ohio | \$89.22 | \$95.47 | \$92.06 | \$94.49 | \$103.84 | \$100.04 | \$99.97 | \$101.91 | \$102.66 | \$104.41 | \$100.77 | 25.9\% | -3.5\% | -2.8\% |
| 32p \& 33 | Durable goods | U.S. | \$968.84 | \$1,035.63 | \$1,065.21 | \$1,090.33 | \$1,106.78 | \$1,124.00 | \$1,126.00 | \$1,172.76 | \$1,229.39 | \$1,239.16 | \$1,178.28 | 44.4\% | -4.9\% | 57.0\% |
|  |  | Ohio | \$45.23 | \$51.55 | \$52.33 | \$53.04 | \$55.38 | \$55.21 | \$55.11 | \$56.93 | \$55.85 | \$56.29 | \$52.50 | 46.3\% | -6.7\% | -12.0\% |
| 31 \& 32p | Nondurable goods | U.S. | \$974.82 | \$911.49 | \$869.45 | \$901.37 | \$916.98 | \$922.20 | \$913.98 | \$934.92 | \$964.93 | \$994.08 | \$989.93 | 0.2\% | -0.4\% | 2.7\% |
|  |  | Ohio | \$44.35 | \$43.97 | \$39.72 | \$41.46 | \$48.58 | \$44.81 | \$44.86 | \$44.91 | \$46.83 | \$48.18 | \$48.50 | 5.9\% | 0.7\% | 14.4\% |
| 22, 42-81 | Service providers ${ }^{17}$ | U.S. | \$10,532.97 | \$10,757.49 | \$11,065.67 | \$11,217.93 | \$11,518.81 | \$11,877.22 | \$12,126.53 | \$12,410.81 | \$12,803.09 | \$13,142.36 | \$12,619.51 | 28.7\% | -4.0\% | 47.7\% |
|  |  | Ohio | \$348.13 | \$358.69 | \$366.29 | \$372.93 | \$381.27 | \$388.07 | \$391.73 | \$394.94 | \$402.53 | \$412.44 | \$394.43 | 21.2\% | -4.4\% | 28.2\% |
| 22 | Utilities | U.S. | \$266.35 | \$276.94 | \$280.65 | \$277.16 | \$266.29 | \$266.39 | \$280.73 | \$284.09 | \$283.11 | \$286.55 | \$298.56 | 21.0\% | 4.2\% | 15.7\% |
|  |  | Ohio | \$9.58 | \$9.77 | \$9.94 | \$9.79 | \$9.40 | \$9.42 | \$9.90 | \$9.61 | \$9.41 | \$9.28 | \$9.53 | 6.0\% | 2.7\% | -9.9\% |
| 42 | Wholesale trade | U.S. | \$944.96 | \$966.66 | \$1,000.29 | \$1,021.01 | \$1,060.62 | \$1,105.85 | \$1,091.90 | \$1,097.62 | \$1,109.82 | \$1,104.63 | \$1,083.85 | 23.8\% | -1.9\% | 35.0\% |
|  |  | Ohio | \$33.20 | \$33.34 | \$34.07 | \$35.01 | \$36.59 | \$37.85 | \$37.65 | \$38.10 | \$38.11 | \$37.76 | \$36.38 | 19.2\% | -3.7\% | 20.9\% |
| 44-45 | Retail trade | U.S. | \$901.12 | \$903.25 | \$910.01 | \$937.73 | \$955.11 | \$990.74 | \$1,027.57 | \$1,061.80 | \$1,095.55 | \$1,122.90 | \$1,090.50 | 27.5\% | -2.9\% | 33.0\% |
|  |  | Ohio | \$31.65 | \$32.17 | \$31.79 | \$33.05 | \$33.84 | \$35.20 | \$35.92 | \$37.38 | \$37.05 | \$37.80 | \$36.90 | 20.4\% | -2.4\% | 8.8\% |
| 48-49p | Transportation \& warehousing ${ }^{1}$ | U.S. | \$460.96 | \$469.97 | \$473.31 | \$479.89 | \$494.36 | \$507.12 | \$514.68 | \$537.13 | \$556.37 | \$566.13 | \$490.27 | 29.0\% | -13.4\% | 15.8\% |
|  |  | Ohio | \$15.46 | \$16.14 | \$15.74 | \$15.68 | \$16.23 | \$17.81 | \$17.37 | \$17.86 | \$18.62 | \$19.13 | \$18.71 | 25.1\% | -2.2\% | 21.5\% |
| 51 | Information | U.S. | \$751.82 | \$764.25 | \$762.71 | \$830.34 | \$851.06 | \$939.25 | \$1,022.04 | \$1,087.20 | \$1,171.41 | \$1,252.86 | \$1,296.53 | 76.6\% | 3.5\% | 207.7\% |
|  |  | Ohio | \$19.55 | \$21.44 | \$20.41 | \$20.48 | \$17.45 | \$17.52 | \$17.76 | \$18.30 | \$18.97 | \$19.54 | \$19.14 | 15.7\% | -2.0\% | 91.6\% |
| 52 | Finance \& insurance | U.S. | \$1,070.99 | \$1,075.40 | \$1,172.45 | \$1,107.52 | \$1,165.14 | \$1,205.74 | \$1,224.31 | \$1,203.80 | \$1,203.12 | \$1,223.08 | \$1,259.55 | 10.1\% | 3.0\% | 37.5\% |
|  |  | Ohio | \$39.65 | \$40.36 | \$41.74 | \$41.70 | \$46.31 | \$48.50 | \$49.52 | \$47.47 | \$50.65 | \$54.18 | \$55.05 | 27.1\% | 1.6\% | 65.7\% |
| 53 | Real estate, rental \& leasing | U.S. | \$2,033.32 | \$2,080.08 | \$2,116.80 | \$2,165.55 | \$2,177.62 | \$2,171.82 | \$2,187.70 | \$2,225.92 | \$2,289.30 | \$2,338.31 | \$2,306.83 | 19.9\% | -1.3\% | 50.2\% |
|  |  | Ohio | \$61.49 | \$63.01 | \$64.19 | \$65.36 | \$65.44 | \$64.35 | \$64.93 | \$65.20 | \$65.58 | \$66.55 | \$63.43 | 11.4\% | -4.7\% | 19.4\% |
| 54 | Professional, scientific | U.S. | \$1,094.62 | \$1,142.32 | \$1,191.79 | \$1,193.85 | \$1,245.29 | \$1,299.70 | \$1,338.14 | \$1,383.53 | \$1,466.73 | \$1,530.38 | \$1,501.18 | 43.5\% | -1.9\% | 77.9\% |
|  |  | Ohio | \$27.74 | \$29.41 | \$29.01 | \$29.20 | \$30.03 | \$30.54 | \$31.41 | \$31.98 | \$33.46 | \$34.67 | \$32.85 | 27.2\% | -5.2\% | 43.3\% |
| 55 | Mgt. of companies \& enterprises | U.S. | \$269.68 | \$280.72 | \$302.14 | \$317.02 | \$338.35 | \$347.29 | \$351.74 | \$377.47 | \$404.62 | \$433.48 | \$439.80 | 72.1\% | 1.5\% | 58.5\% |
|  |  | Ohio | \$14.65 | \$15.36 | \$18.82 | \$19.35 | \$20.64 | \$19.96 | \$20.29 | \$21.35 | \$21.95 | \$23.55 | \$24.44 | 72.0\% | 3.8\% | 99.2\% |
| 56 | Administrative support \& waste mgt. | U.S. | \$445.12 | \$460.19 | \$474.95 | \$481.83 | \$500.20 | \$507.46 | \$508.58 | \$540.74 | \$563.19 | \$583.07 | \$549.77 | 40.1\% | -5.7\% | 62.8\% |
|  |  | Ohio | \$15.45 | \$16.31 | \$17.23 | \$17.93 | \$18.48 | \$18.36 | \$17.31 | \$17.90 | \$17.90 | \$18.10 | \$16.86 | 25.6\% | -6.9\% | 33.4\% |
| 61 | Education | U.S. | \$212.14 | \$213.68 | \$214.19 | \$210.66 | \$212.93 | \$214.67 | \$220.55 | \$217.36 | \$222.69 | \$228.86 | \$203.03 | 11.2\% | -11.3\% | 33.2\% |
|  |  | Ohio | \$6.04 | \$6.03 | \$5.86 | \$5.62 | \$5.59 | \$5.46 | \$5.53 | \$5.28 | \$5.26 | \$5.31 | \$4.60 | -10.6\% | -13.5\% | -0.7\% |
| 62 | Health care \& social assistance | U.S. | \$1,149.98 | \$1,172.55 | \$1,195.07 | \$1,215.86 | \$1,239.35 | \$1,292.48 | \$1,329.22 | \$1,360.26 | \$1,398.86 | \$1,438.53 | \$1,359.30 | 26.1\% | -5.5\% | 62.8\% |
|  |  | Ohio | \$46.11 | \$46.93 | \$47.91 | \$49.11 | \$49.67 | \$51.09 | \$51.90 | \$52.58 | \$53.33 | \$54.30 | \$51.21 | 17.5\% | -5.7\% | 41.1\% |
| 71 | Arts, entertainment | U.S. | \$159.16 | \$163.78 | \$171.78 | \$174.92 | \$182.69 | \$179.42 | \$185.70 | \$191.86 | \$199.44 | \$204.26 | \$132.05 | 35.0\% | -35.4\% | -4.2\% |
|  | \& recreation | Ohio | \$5.23 | \$5.33 | \$5.91 | \$6.45 | \$6.35 | \$6.12 | \$6.47 | \$6.54 | \$6.50 | \$6.21 | \$4.59 | 34.0\% | -26.0\% | -19.1\% |
| 72 | Accommodation | U.S. | \$427.24 | \$443.73 | \$450.96 | \$460.59 | \$475.85 | \$499.29 | \$504.92 | \$515.81 | \$521.17 | \$530.93 | \$383.58 | 28.6\% | -27.8\% | -9.7\% |
|  | \& food services | Ohio | \$11.40 | \$11.92 | \$12.28 | \$12.99 | \$13.52 | \$14.01 | \$14.03 | \$14.03 | \$13.85 | \$14.06 | \$10.64 | 27.1\% | -24.3\% | -17.7\% |
| 81 | Other services | U.S. | \$346.17 | \$343.32 | \$348.58 | \$345.70 | \$355.71 | \$357.72 | \$354.81 | \$357.03 | \$368.81 | \$368.84 | \$322.97 | 4.6\% | -12.4\% | -25.1\% |
|  | (exc. Government) | Ohio | \$11.01 | \$11.15 | \$11.40 | \$11.20 | \$11.53 | \$11.61 | \$11.46 | \$11.59 | \$11.86 | \$11.81 | \$10.35 | 5.4\% | -12.4\% | -36.3\% |
| 92 | Government ${ }^{2}$ | U.S. | \$2,182.73 | \$2,175.79 | \$2,159.49 | \$2,144.29 | \$2,139.64 | \$2,142.19 | \$2,163.35 | \$2,184.63 | \$2,203.00 | \$2,216.26 | \$2,195.49 | 2.1\% | -0.9\% | 11.0\% |
|  |  | Ohio | \$64.13 | \$63.18 | \$63.25 | \$62.14 | \$61.47 | \$61.13 | \$61.98 | \$62.53 | \$62.16 | \$62.55 | \$61.75 | -0.4\% | -1.3\% | -6.4\% |

Notes and abbreviations: ^ - a recession year, either partially or entirely, for the nation as a whole; * - preliminary; prior years may be revised; 1 - excludes U.S. Postal Service (NAICS 491); 2 - includes U.S. Postal Service; p-part
\# - components may not sum to totals due to rounding and/or different inflators/deflators used for different sectors; n. - - not available.
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22)

|  |  |  |  |  |  |  |  |  |  |  |  |  | Percentage Changes |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Area | NAICS Code | Sector | 2019 Q2 | 2019 Q3 | 2019 Q4 | 2020 Q1^ | 2020 Q2^ | 2020 Q3 | 2020 Q4 | 2021 Q1 | 2021 Q2 | 2021 Q3 | $\begin{gathered} 2019 \text { Q4- } \\ 2020 \text { Q2 } \end{gathered}$ | $\begin{gathered} 2020 \text { Q2- } \\ 2021 \text { Q3 } \end{gathered}$ | $\begin{array}{r} 2019 \text { Q4- } \\ 2021 \text { Q3 } \end{array}$ |
| U.S. | 11-92 | All industry total | \$18,982.5 | \$19,112.7 | \$19,202.3 | \$18,952.0 | \$17,258.2 | \$18,560.8 | \$18,767.8 | \$19,055.7 | \$19,368.3 | \$19,478.9 | -10.1\% | 12.9\% | 1.4\% |
| Ohio | 11-92 | All industry total | \$609.7 | \$613.6 | \$615.2 | \$607.6 | \$549.3 | \$598.4 | \$604.3 | \$609.2 | \$613.7 | \$615.3 | -10.7\% | 12.0\% | 0.0\% |
| U.S. | 11-81 | Private industries | \$16,726.9 | \$16,852.8 | \$16,918.6 | \$16,662.5 | \$15,052.8 | \$16,327.1 | \$16,526.9 | \$16,812.2 | \$17,104.6 | \$17,186.5 | -11.0\% | 14.2\% | 1.6\% |
| Ohio | 11-81 | Private industries | \$547.4 | \$551.6 | \$552.0 | \$544.4 | \$488.8 | \$537.0 | \$542.9 | \$547.6 | \$551.7 | \$552.4 | -11.4\% | 13.0\% | 0.1\% |
| U.S. | 11 | Agriculture, forestry, fishing \& hunting | \$221.7 | \$222.6 | \$228.4 | \$259.5 | \$236.1 | \$261.7 | \$261.3 | \$251.7 | \$243.0 | \$237.4 | 3.4\% | 0.5\% | 3.9\% |
| Ohio | 11 | Agriculture, forestry, fishing \& hunting | \$3.9 | \$4.3 | \$4.2 | \$6.7 | \$5.4 | \$5.7 | \$5.7 | \$6.2 | \$6.5 | \$6.4 | 29.9\% | 18.5\% | 54.0\% |
| U.S. | 21 | Mining, quarrying \& oil-gas extraction | \$486.5 | \$499.9 | \$491.1 | \$495.5 | \$433.1 | \$412.9 | \$412.8 | \$409.2 | \$416.5 | \$408.0 | -11.8\% | -5.8\% | -16.9\% |
| Ohio | 21 | Mining, quarrying \& oil-gas extraction | \$8.0 | \$8.4 | \$9.0 | \$10.3 | \$10.0 | \$10.2 | \$10.3 | \$10.6 | \$10.5 | \$10.1 | 11.1\% | 0.6\% | 11.8\% |
| U.S. | 23 | Construction | \$676.0 | \$676.5 | \$671.9 | \$664.7 | \$614.1 | \$653.0 | \$670.0 | \$679.7 | \$690.7 | \$665.3 | -8.6\% | 8.3\% | -1.0\% |
| Ohio | 23 | Construction | \$19.4 | \$19.5 | \$19.8 | \$19.7 | \$17.7 | \$18.9 | \$19.5 | \$20.2 | \$19.6 | \$19.0 | -10.8\% | 7.3\% | -4.2\% |
| U.S. | 31-33 | Manufacturing | \$2,228.9 | \$2,258.2 | \$2,253.4 | \$2,225.8 | \$1,966.6 | \$2,228.3 | \$2,250.4 | \$2,298.1 | \$2,329.2 | \$2,320.2 | -12.7\% | 18.0\% | 3.0\% |
| Ohio | 31-33 | Manufacturing | \$104.5 | \$106.0 | \$104.4 | \$104.2 | \$88.2 | \$105.1 | \$105.6 | \$106.6 | \$107.7 | \$106.5 | -15.5\% | 20.8\% | 2.0\% |
| U.S. | 32-33D | Durable goods mfg. | \$1,240.4 | \$1,237.8 | \$1,240.0 | \$1,217.2 | \$1,048.3 | \$1,214.0 | \$1,233.6 | \$1,272.0 | \$1,285.5 | \$1,277.4 | -15.5\% | 21.9\% | 3.0\% |
| Ohio | 32-33D | Durable goods mfg. | \$56.4 | \$56.3 | \$56.7 | \$55.9 | \$44.5 | \$54.4 | \$55.2 | \$55.5 | \$56.5 | \$55.8 | -21.6\% | 25.5\% | -1.5\% |
| U.S. | 31-32N | Nondurable goods mfg. | \$987.5 | \$1,019.9 | \$1,013.0 | \$1,008.7 | \$920.3 | \$1,014.4 | \$1,016.3 | \$1,025.2 | \$1,042.8 | \$1,041.7 | -9.2\% | 13.2\% | 2.8\% |
| Ohio | $31-32 \mathrm{~N}$ | Nondurable goods mfg. | \$48.2 | \$49.8 | \$47.7 | \$48.4 | \$44.1 | \$51.0 | \$50.5 | \$51.3 | \$51.5 | \$50.9 | -7.6\% | 15.4\% | 6.6\% |
| U.S. | 22 | Utilities | \$291.0 | \$282.1 | \$297.5 | \$297.8 | \$299.8 | \$302.7 | \$294.0 | \$287.5 | \$290.2 | \$277.7 | 0.8\% | -7.4\% | -6.7\% |
| Ohio | 22 | Utilities | \$9.6 | \$9.2 | \$9.6 | \$9.5 | \$9.6 | \$9.5 | \$9.5 | \$8.8 | \$9.2 | \$8.8 | 0.4\% | -8.2\% | -7.9\% |
| U.S. | 42 | Wholesale trade | \$1,094.4 | \$1,102.9 | \$1,107.0 | \$1,116.1 | \$1,010.2 | \$1,106.4 | \$1,102.8 | \$1,112.0 | \$1,122.2 | \$1,098.8 | -8.7\% | 8.8\% | -0.7\% |
| Ohio | 42 | Wholesale trade | \$37.4 | \$37.8 | \$37.7 | \$37.4 | \$34.0 | \$37.1 | \$36.9 | \$36.9 | \$37.1 | \$36.1 | -9.9\% | 6.2\% | -4.3\% |
| U.S. | 44-45 | Retail trade | \$1,116.4 | \$1,129.7 | \$1,134.0 | \$1,113.5 | \$1,013.0 | \$1,117.5 | \$1,118.0 | \$1,162.8 | \$1,117.5 | \$1,076.1 | -10.7\% | 6.2\% | -5.1\% |
| Ohio | 44-45 | Retail trade | \$37.6 | \$37.9 | \$38.2 | \$37.4 | \$34.7 | \$38.1 | \$37.5 | \$39.6 | \$36.8 | \$35.5 | -9.2\% | 2.4\% | -7.0\% |
| U.S. | 48-49 | Transportation \& warehousing | \$565.4 | \$571.4 | \$567.5 | \$554.0 | \$427.3 | \$487.0 | \$492.7 | \$503.4 | \$490.7 | \$505.0 | -24.7\% | 18.2\% | -11.0\% |
| Ohio | 48-49 | Transportation \& warehousing | \$18.8 | \$19.3 | \$19.5 | \$19.8 | \$16.2 | \$19.3 | \$19.5 | \$20.2 | \$18.7 | \$19.4 | -17.1\% | 19.9\% | -0.6\% |
| U.S. | 51 | Information | \$1,248.7 | \$1,266.4 | \$1,282.4 | \$1,276.9 | \$1,255.8 | \$1,323.4 | \$1,330.0 | \$1,376.4 | \$1,456.0 | \$1,484.3 | -2.1\% | 18.2\% | 15.7\% |
| Ohio | 51 | Information | \$19.4 | \$19.6 | \$19.7 | \$19.2 | \$18.8 | \$19.5 | \$19.0 | \$19.3 | \$20.6 | \$21.0 | -4.6\% | 11.6\% | 6.4\% |
| U.S. | 52 | Finance \& insurance | \$1,220.6 | \$1,213.5 | \$1,243.4 | \$1,202.8 | \$1,235.0 | \$1,272.1 | \$1,328.3 | \$1,352.3 | \$1,363.8 | \$1,389.8 | -0.7\% | 12.5\% | 11.8\% |
| Ohio | 52 | Finance \& insurance | \$53.7 | \$54.6 | \$55.6 | \$53.1 | \$53.9 | \$55.0 | \$58.2 | \$56.2 | \$57.8 | \$58.9 | -2.9\% | 9.1\% | 5.9\% |
| U.S. | 53 | Real estate, rental \& leasing | \$2,335.8 | \$2,347.5 | \$2,349.1 | \$2,344.4 | \$2,265.6 | \$2,311.3 | \$2,306.0 | \$2,335.6 | \$2,363.9 | \$2,376.7 | -3.6\% | 4.9\% | 1.2\% |
| Ohio | 53 | Real estate, rental \& leasing | \$66.8 | \$66.8 | \$66.1 | \$64.8 | \$62.6 | \$63.3 | \$63.0 | \$63.7 | \$64.5 | \$64.6 | -5.2\% | 3.2\% | -2.2\% |
| U.S. | 54 | Professional, scientific \& technical services | \$1,519.3 | \$1,544.0 | \$1,552.9 | \$1,544.4 | \$1,428.5 | \$1,505.9 | \$1,525.9 | \$1,562.8 | \$1,619.4 | \$1,667.2 | -8.0\% | 16.7\% | 7.4\% |
| Ohio | 54 | Professional, scientific \& technical services | \$34.4 | \$34.9 | \$34.9 | \$34.3 | \$31.3 | \$32.9 | \$32.9 | \$33.9 | \$34.7 | \$35.7 | -10.3\% | 14.0\% | 2.2\% |
| U.S. | 55 | Mgt. of companies \& enterprises | \$432.9 | \$434.1 | \$437.6 | \$436.5 | \$426.2 | \$433.4 | \$463.1 | \$472.0 | \$474.6 | \$483.7 | -2.6\% | 13.5\% | 10.5\% |
| Ohio | 55 | Mgt. of companies \& enterprises | \$23.4 | \$23.6 | \$23.6 | \$24.4 | \$23.0 | \$24.3 | \$26.1 | \$25.3 | \$24.9 | \$25.3 | -2.5\% | 10.2\% | 7.5\% |
| U.S. | 56 | Administrative-support \& waste mgt.-remediation services | \$581.4 | \$586.2 | \$587.2 | \$578.6 | \$495.4 | \$549.6 | \$575.5 | \$604.1 | \$618.2 | \$641.5 | -15.6\% | 29.5\% | 9.2\% |
| Ohio | 56 | Administrative-support \& waste mgt.-remediation services | \$18.1 | \$18.1 | \$18.1 | \$17.6 | \$14.9 | \$16.9 | \$18.0 | \$19.1 | \$18.9 | \$19.7 | -17.5\% | 31.9\% | 8.8\% |
| U.S. | 61 | Educational services | \$230.6 | \$229.8 | \$226.8 | \$221.9 | \$194.2 | \$201.6 | \$194.3 | \$198.2 | \$202.6 | \$206.7 | -14.4\% | 6.4\% | -8.9\% |
| Ohio | 61 | Educational services | \$5.4 | \$5.3 | \$5.2 | \$5.1 | \$4.4 | \$4.6 | \$4.4 | \$4.4 | \$4.6 | \$4.6 | -15.4\% | 4.3\% | -11.7\% |
| U.S. | 62 | Health care \& social assistance | \$1,435.5 | \$1,443.2 | \$1,448.4 | \$1,418.3 | \$1,207.4 | \$1,390.9 | \$1,420.6 | \$1,411.8 | \$1,431.5 | \$1,440.7 | -16.6\% | 19.3\% | -0.5\% |
| Ohio | 62 | Health care \& social assistance | \$54.5 | \$54.3 | \$54.2 | \$53.3 | \$46.2 | \$52.4 | \$53.0 | \$52.0 | \$53.5 | \$53.8 | -14.8\% | 16.5\% | -0.8\% |
| U.S. | 71 | Arts, entertainment \& recreation | \$201.2 | \$206.9 | \$208.7 | \$187.1 | \$86.1 | \$121.0 | \$134.0 | \$144.8 | \$150.3 | \$164.4 | -58.8\% | 91.0\% | -21.2\% |
| Ohio | 71 | Arts, entertainment \& recreation | \$6.2 | \$6.1 | \$6.3 | \$6.4 | \$2.7 | \$4.5 | \$4.8 | \$5.4 | \$5.3 | \$5.6 | -56.7\% | 104.7\% | -11.4\% |
| U.S. | 72 | Accommodation \& food services | \$529.7 | \$537.6 | \$529.4 | \$473.3 | \$275.5 | \$398.4 | \$387.1 | \$397.7 | \$466.1 | \$486.2 | -48.0\% | 76.5\% | -8.2\% |
| Ohio | 72 | Accommodation \& food services | \$14.0 | \$14.0 | \$14.1 | \$12.3 | \$8.1 | \$11.5 | \$10.7 | \$11.5 | \$12.7 | \$13.2 | -42.8\% | 63.0\% | -6.8\% |
| U.S. | 81 | Other services (exc. govt. \& govt. enterprises) | \$367.2 | \$370.0 | \$369.6 | \$355.8 | \$285.2 | \$324.5 | \$326.4 | \$318.9 | \$332.0 | \$337.2 | -22.8\% | 18.2\% | -8.8\% |
| Ohio | 81 | Other services (exc. govt. \& govt. enterprises) | \$11.8 | \$11.8 | \$11.8 | \$11.4 | \$9.1 | \$10.5 | \$10.4 | \$10.2 | \$10.6 | \$10.7 | -22.7\% | 17.4\% | -9.2\% |
| U.S. | 92 | Government \& government enterprises | \$2,212.5 | \$2,217.8 | \$2,240.4 | \$2,242.6 | \$2,155.2 | \$2,189.5 | \$2,194.6 | \$2,199.9 | \$2,218.3 | \$2,245.9 | -3.8\% | 4.2\% | 0.2\% |
| Ohio | 92 | Government \& government enterprises | \$62.5 | \$62.3 | \$63.4 | \$63.3 | \$60.3 | \$61.6 | \$61.7 | \$61.9 | \$62.3 | \$63.1 | -4.8\% | 4.7\% | -0.4\% |
| U.S. | 92C | Federal civilian | \$419.0 | \$421.4 | \$423.1 | \$426.5 | \$430.8 | \$441.2 | \$435.2 | \$432.7 | \$431.9 | \$432.8 | 1.8\% | 0.5\% | 2.3\% |
| Ohio | 92 C | Federal civilian | \$10.8 | \$10.8 | \$10.9 | \$11.0 | \$11.0 | \$11.3 | \$11.0 | \$11.0 | \$10.9 | \$10.9 | 1.5\% | -1.1\% | 0.5\% |
| U.S. | 92M | Military | \$181.2 | \$182.5 | \$183.1 | \$183.0 | \$186.6 | \$185.9 | \$185.1 | \$186.4 | \$185.7 | \$183.4 | 1.9\% | -1.7\% | 0.2\% |
| Ohio | 92M | Military | \$3.9 | \$4.0 | \$4.0 | \$4.1 | \$4.2 | \$4.2 | \$4.2 | \$4.3 | \$4.2 | \$4.1 | 3.4\% | -1.5\% | 1.9\% |
| U.S. | 92SL | State \& local | \$1,497.7 | \$1,499.2 | \$1,517.8 | \$1,515.9 | \$1,424.8 | \$1,450.3 | \$1,458.8 | \$1,464.7 | \$1,482.0 | \$1,508.6 | -6.1\% | 5.9\% | -0.6\% |
| Ohio | 92SL | State \& local | \$47.9 | \$47.6 | \$48.5 | \$48.3 | \$45.2 | \$46.2 | \$46.6 | \$46.8 | \$47.3 | \$48.2 | -6.8\% | 6.5\% | -0.7\% |

Note: * - Inflation-adjusted estimates for sectors usually do not sum to higher levels because weights vary by industry; ^ - an overall recession quarter
Source: U.S. BEA (SQGDP9 Real GDP by state) [machine-readable data file] / prepared by the Bureau. Washington, D.C.: the Bureau [producer \& distributor], 2022
Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 2/22).

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| 2012 |  | Dollar figures in Billions |  |  |  |  |  |  |  |  |  |  |  |  | Nominal Net Change |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2008^ | 2009^ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020^* |  |
| Durable | ds in Current Dollars |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11-92 | Total GDP: Ohio U.S. Ohio as percent of U.S. | $\begin{array}{r} \$ 496.9 \\ \$ 14,769.9 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 482.3 \\ \$ 14,478.1 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 500.5 \\ \$ 15,049.0 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 528.2 \\ \$ 15,599.7 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 545.7 \\ \$ 16,254.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 566.5 \\ \$ 16,843.2 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 595.6 \\ \$ 17,550.7 \\ 3.39 \% \end{array}$ | $\$ 611.0$ $\$ 18,206.0$ $3.36 \%$ | $\begin{array}{r} \$ 623.3 \\ \$ 18,695.1 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 641.7 \\ \$ 19,479.6 \\ 3.29 \% \end{array}$ | $\begin{array}{r} \$ 667.0 \\ \$ 20,527.2 \\ 3.25 \% \end{array}$ | $\begin{array}{r} \$ 693.2 \\ \$ 21,372.6 \\ 3.24 \% \end{array}$ | $\begin{array}{r} \$ 677.6 \\ \$ 20,893.7 \\ 3.24 \% \end{array}$ | -0.12\% |
| $\begin{gathered} \overline{32 p ~ \& ~} \\ 33 \end{gathered}$ | Durable goods summary: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S. | $\$ 56.31$ $\$ 1,000.23$ $5.63 \%$ 1.67 | $\begin{array}{r} \$ 38.72 \\ \$ 880.38 \\ 4.40 \% \\ 1.32 \end{array}$ | $\begin{array}{r} \$ 44.45 \\ \$ 965.54 \\ 4.60 \% \\ 1.38 \\ \hline \end{array}$ | $\begin{array}{r} \$ 50.30 \\ \$ 1,017.89 \\ 4.94 \% \\ 1.46 \end{array}$ | $\begin{array}{r} \$ 52.33 \\ \$ 1,065.21 \\ 4.91 \% \\ 1.46 \end{array}$ | $\$ 53.75$ $\$ 1,104.49$ $4.87 \%$ 1.45 | $\begin{array}{r} \$ 57.32 \\ \$ 1,135.60 \\ 5.05 \% \\ 1.49 \end{array}$ | $\$ 59.19$ $\$ 1,184.40$ $5.00 \%$ 1.49 | $\$ 59.22$ $\$ 1,187.78$ $4.99 \%$ 1.50 | $\$ 61.32$ $\$ 1,235.45$ $4.96 \%$ 1.51 | $\begin{array}{r} \$ 60.57 \\ \$ 1,298.88 \\ 4.66 \% \\ 1.44 \\ \hline \end{array}$ | $\begin{array}{r} \$ 62.00 \\ \$ 1,327.90 \\ 4.67 \% \\ 1.44 \\ \hline \end{array}$ | $\$ 57.59$ $\$ 1,268.83$ $4.54 \%$ 1.40 | $\begin{array}{r} -1.09 \% \\ -0.27 \\ \hline \end{array}$ |
| 321 | Wood products: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S | $\begin{array}{r} \$ 0.83 \\ \$ 25.62 \\ 3.24 \% \\ 0.96 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.70 \\ \$ 21.21 \\ 3.31 \% \\ 0.99 \end{array}$ | $\begin{array}{r} \hline \$ 0.78 \\ \$ 23.32 \\ 3.34 \% \\ 1.01 \\ \hline \end{array}$ | $\begin{array}{r} \$ \$ .80 \\ \$ 23.68 \\ 3.40 \% \\ 1.00 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.72 \\ \$ 25.82 \\ 2.80 \% \\ 0.83 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.78 \\ \$ 30.54 \\ 2.56 \% \\ 0.76 \end{array}$ | $\begin{array}{r} \hline \$ 0.94 \\ \$ 30.98 \\ 3.02 \% \\ 0.89 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.93 \\ \$ 32.50 \\ 2.85 \% \\ 0.85 \end{array}$ | $\begin{array}{r} \$ 1.06 \\ \$ 35.33 \\ 2.99 \% \\ 0.90 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.17 \\ \$ 37.92 \\ 3.09 \% \\ 0.94 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.19 \\ \$ 39.22 \\ 3.03 \% \\ 0.93 \end{array}$ | $\begin{array}{r} \$ 1.29 \\ \$ 39.94 \\ 3.23 \% \\ 1.00 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 1.36 \\ \$ 42.24 \\ 3.23 \% \\ 0.99 \\ \hline \end{array}$ | $\begin{array}{r} -0.01 \% \\ 0.03 \\ \hline \end{array}$ |
| 327 | Nonmetallic mineral products: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S | $\begin{array}{r} \$ 2.70 \\ \$ 44.77 \\ 6.04 \% \\ 1.80 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.44 \\ \$ 38.84 \\ 6.28 \% \\ 1.89 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.61 \\ \$ 38.40 \\ 6.79 \% \\ 2.04 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.76 \\ \$ 38.93 \\ 7.09 \% \\ 2.09 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.13 \\ \$ 42.71 \\ 7.33 \% \\ 2.18 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.32 \\ \$ 47.23 \\ 7.03 \% \\ 2.09 \end{array}$ | $\begin{array}{r} \$ 3.26 \\ \$ 49.60 \\ 6.58 \% \\ 1.94 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.23 \\ \$ 54.70 \\ 5.90 \% \\ 1.76 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.37 \\ \$ 57.50 \\ 5.86 \% \\ 1.76 \end{array}$ | $\begin{array}{r} \$ 3.66 \\ \$ 61.79 \\ 5.93 \% \\ 1.80 \end{array}$ | $\begin{array}{r} \$ 3.86 \\ \$ 62.78 \\ 6.14 \% \\ 1.89 \end{array}$ | $\begin{array}{r} \$ 4.18 \\ \$ 65.10 \\ 6.41 \% \\ 108 \end{array}$ | \$4.25 <br> $\$ 66.75$ <br> 6.36\% <br> 1.96 | $\begin{array}{r} 0.32 \% \\ 0.17 \\ \hline \end{array}$ |
| 331 | Primary metals: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S | $\begin{array}{r} \$ 7.65 \\ \$ 68.86 \\ 11.10 \% \\ 3.30 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 2.98 \\ \$ 41.10 \\ 7.24 \% \\ 2.17 \\ \hline \end{array}$ | $\$ 4.83$ $\$ 50.93$ 9.49\% 2.85 | $\begin{array}{r} \$ 6.14 \\ \$ 62.65 \\ 9.80 \% \\ 2.90 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.55 \\ \$ 65.76 \\ 8.44 \% \\ 2.51 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.66 \\ \$ 62.46 \\ 9.06 \% \\ 2.69 \end{array}$ | $\begin{array}{r} \hline \$ 6.04 \\ \$ 64.15 \\ 9.42 \% \\ 2.78 \\ \hline \end{array}$ | $\begin{array}{r} \$ 6.57 \\ \$ 60.09 \\ 10.93 \% \\ 3.26 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.91 \\ \$ 56.86 \\ 10.40 \% \\ 3.12 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.33 \\ \$ 59.08 \\ 9.02 \% \\ 2.74 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.33 \\ \$ 67.09 \\ 7.94 \% \\ 2.44 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 5.19 \\ \$ 66.23 \\ 7.83 \% \\ 2.42 \\ \hline \end{array}$ | $\begin{array}{r} \$ \$ 4.76 \\ \$ 58.31 \\ 8.16 \% \\ 2.52 \\ \hline \end{array}$ | $\begin{array}{r} -2.94 \% \\ -0.78 \\ \hline \end{array}$ |
| 332 | Fabricated metal products: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S | \$11.88 \$133.18 8.92\% 2.65 | $\begin{array}{r} \$ 8.76 \\ \$ 117.29 \\ 7.47 \% \\ 2.24 \end{array}$ | $\begin{array}{r} \$ 9.66 \\ \$ 120.01 \\ 8.05 \% \\ 2.42 \\ \hline \end{array}$ | $\begin{array}{r} \$ 10.57 \\ \$ 127.44 \\ 8.29 \% \\ 2.45 \end{array}$ | $\$ 10.82$ <br> \$137.98 <br> 7.84\% <br> 2.34 | \$10.78 <br> \$141.89 <br> 7.60\% <br> 2.26 | $\$ 11.19$ \$144.08 $7.77 \%$ 2.29 | \$11.26 <br> \$147.42 <br> 7.64\% <br> 2.28 | \$10.73 <br> \$146.04 <br> 7.35\% <br> 2.20 | $\$ 11.43$ <br> \$149.91 <br> 7.62\% <br> 2.31 | \$11.18 \$155.44 7.19\% 2.21 | \$11.77 <br> \$162.93 <br> 7.22\% <br> 2.23 | $\$ 10.15$ $\$ 145.81$ 6.96\% 2.15 | $\begin{array}{r} -1.96 \% \\ -0.51 \\ \hline \end{array}$ |
| 333 | Machinery: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S | $\$ 7.16$ $\$ 131.70$ <br> 5.44\% <br> 1.62 | $\begin{array}{r} \$ 5.86 \\ \$ 118.53 \\ 4.95 \% \\ 1.49 \\ \hline \end{array}$ | $\begin{array}{r} \$ 6.25 \\ \$ 127.35 \\ 4.91 \% \\ 1.48 \\ \hline \end{array}$ | $\begin{array}{r} \$ 7.38 \\ \$ 144.86 \\ 5.09 \% \\ 1.50 \\ \hline \end{array}$ | $\begin{array}{r} \$ 7.51 \\ \$ 152.99 \\ 4.91 \% \\ 1.46 \\ \hline \end{array}$ | $\begin{array}{r} \$ 8.78 \\ \$ 158.53 \\ 5.54 \% \\ 1.65 \end{array}$ | $\$ 8.77$ $\$ 161.11$ <br> 5.44\% <br> 1.60 | $\begin{array}{r} \$ 8.70 \\ \$ 152.54 \\ 5.70 \% \\ 1.70 \\ \hline \end{array}$ | $\begin{array}{r} \$ 8.78 \\ \$ 143.77 \\ 6.10 \% \\ 1.83 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.51 \\ \$ 153.67 \\ 6.19 \% \\ 1.88 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.02 \\ \$ 161.93 \\ 5.57 \% \\ 1.71 \\ \hline \end{array}$ | $\begin{array}{r} \$ 8.99 \\ \$ 167.47 \\ 5.37 \% \\ 1.65 \\ \hline \end{array}$ | $\begin{array}{r} \$ 8.43 \\ \$ 157.57 \\ 5.35 \% \\ 1.65 \\ \hline \end{array}$ | $\begin{array}{r} -0.08 \% \\ 0.03 \\ \hline \end{array}$ |
| 334 | Computer \& electronic products: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S. | $\begin{array}{r} \$ 3.37 \\ \$ 232.23 \\ 1.45 \% \\ 0.43 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.10 \\ \$ 223.53 \\ 0.94 \% \\ 0.28 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.39 \\ \$ 240.16 \\ 1.00 \% \\ 0.30 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.21 \\ \$ 237.79 \\ 0.93 \% \\ 0.27 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.72 \\ \$ 241.26 \\ 1.13 \% \\ 0.34 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.74 \\ \$ 244.62 \\ 1.12 \% \\ 0.33 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.74 \\ \$ 251.54 \\ 1.09 \% \\ 0.32 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.40 \\ \$ 267.47 \\ 0.90 \% \\ 0.27 \end{array}$ | $\begin{array}{r} \$ 2.24 \\ \$ 268.06 \\ 0.84 \% \\ 0.25 \end{array}$ | $\begin{array}{r} \$ 2.64 \\ \$ 279.89 \\ 0.94 \% \\ 0.29 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.91 \\ \$ 304.67 \\ 0.95 \% \\ 0.29 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.75 \\ \$ 307.67 \\ 0.89 \% \\ 0.28 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.73 \\ \$ 317.34 \\ 0.86 \% \\ 0.27 \end{array}$ | $\begin{array}{r} -0.59 \% \\ -0.17 \end{array}$ |
| 335 | Electrical eqpt. \& appliances: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S | $\begin{array}{r} \$ 4.48 \\ \$ 55.51 \\ 8.07 \% \\ 2.40 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.89 \\ \$ 50.64 \\ 7.69 \% \\ 2.31 \end{array}$ | $\begin{array}{r} \$ 3.72 \\ \$ 50.78 \\ 7.32 \% \\ 2.20 \end{array}$ | $\begin{array}{r} \$ 3.58 \\ \$ 48.31 \\ 7.41 \% \\ 2.19 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.97 \\ \$ 52.15 \\ 7.62 \% \\ 2.27 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.99 \\ \$ 58.10 \\ 6.87 \% \\ 2.04 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.93 \\ \$ 54.43 \\ 7.23 \% \\ 2.13 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.75 \\ \$ 63.67 \\ 7.47 \% \\ 2.22 \end{array}$ | $\begin{array}{r} \$ 4.52 \\ \$ 58.46 \\ 7.73 \% \\ 2.32 \end{array}$ | $\begin{array}{r} \$ 4.64 \\ \$ 60.77 \\ 7.63 \% \\ 2.32 \end{array}$ | $\begin{array}{r} \$ 4.76 \\ \$ 65.06 \\ 7.31 \% \\ 2.25 \end{array}$ | $\begin{array}{r} \$ 4.99 \\ \$ 65.00 \\ 7.68 \% \\ 2.37 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 4.84 \\ \$ 63.60 \\ 7.61 \% \\ 2.35 \\ \hline \end{array}$ | $\begin{array}{r} -0.46 \% \\ -0.05 \\ \hline \end{array}$ |
| 3361-3 | Motor vehicles, bodies, trailers \& parts: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S. | $\begin{array}{r} \hline \$ 10.05 \\ \$ 90.34 \\ 11.13 \% \\ 3.31 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.99 \\ \$ 47.77 \\ 8.35 \% \\ 2.51 \\ \hline \end{array}$ | $\begin{array}{r} \$ 6.83 \\ \$ 88.81 \\ 7.70 \% \\ 2.31 \end{array}$ | $\begin{array}{r} \$ 9.04 \\ \$ 104.52 \\ 8.65 \% \\ 2.55 \\ \hline \end{array}$ | $\begin{array}{r} \$ 10.69 \\ \$ 115.77 \\ 9.23 \% \\ 2.75 \end{array}$ | $\begin{array}{r} \$ 10.07 \\ \$ 123.10 \\ 8.18 \% \\ 2.43 \end{array}$ | $\begin{array}{r} \$ 11.92 \\ \$ 132.75 \\ 8.98 \% \\ 2.65 \\ \hline \end{array}$ | \$12.20 \$146.34 8.34\% 2.48 | $\$ 12.29$ <br> \$155.48 <br> 7.90\% <br> 2.37 | \$11.49 \$158.45 $7.25 \%$ 2.20 2.20 | \$11.34 \$157.76 7.19\% 2.21 | $\$ 11.63$ \$158.69 7.33\% 2.26 | \$10.87 <br> \$154.64 <br> 7.03\% <br> 2.17 | $\begin{array}{r} -4.10 \% \\ -1.14 \end{array}$ |
| 3364-9 | Other transportation eqpt.: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S | $\begin{array}{r} \$ 5.06 \\ \$ 114.59 \\ 4.42 \% \\ 1.31 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.06 \\ \$ 117.37 \\ 4.31 \% \\ 1.29 \end{array}$ | $\begin{array}{r} \$ 4.61 \\ \$ 120.77 \\ 3.82 \% \\ 1.15 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.05 \\ \$ 127.20 \\ 3.97 \% \\ 1.17 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.39 \\ \$ 126.90 \\ 3.46 \% \\ 1.03 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.82 \\ \$ 133.41 \\ 3.61 \% \\ 1.07 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.43 \\ \$ 139.35 \\ 3.90 \% \\ 1.15 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.95 \\ \$ 149.18 \\ 3.99 \% \\ 1.19 \end{array}$ | $\begin{array}{r} \$ 6.99 \\ \$ 148.45 \\ 4.71 \% \\ 1.41 \\ \hline 1111 \end{array}$ | $\begin{array}{r} \$ 7.98 \\ \$ 152.87 \\ 5.22 \% \\ 1.58 \end{array}$ | $\begin{array}{r} \$ 7.36 \\ \$ 158.74 \\ 4.63 \% \\ 1.43 \\ \hline \end{array}$ | $\begin{array}{r} \$ 7.53 \\ \$ 165.70 \\ 4.54 \% \\ 1.40 \\ \hline \end{array}$ | $\begin{array}{r} \$ 6.32 \\ \$ 130.47 \\ 4.85 \% \\ 1.49 \\ \hline \end{array}$ | $\begin{array}{r} 0.43 \% \\ 0.18 \\ \hline \end{array}$ |
| 337 | Furniture \& related products: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S | $\begin{array}{r} \$ 1.15 \\ \$ 27.86 \\ 4.13 \% \\ 1.23 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.92 \\ \$ 22.81 \\ 4.04 \% \\ 1.21 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.79 \\ \$ 21.85 \\ 3.60 \% \\ 1.08 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.87 \\ \$ 21.98 \\ 3.94 \% \\ 1.16 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.80 \\ \$ 22.42 \\ 3.57 \% \\ 1.06 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 0.83 \\ \$ 24.04 \\ 3.44 \% \\ 1.02 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.95 \\ \$ 25.76 \\ 3.68 \% \\ 1.09 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.04 \\ \$ 29.15 \\ 3.57 \% \\ 1.06 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.11 \\ \$ 30.29 \\ 3.66 \% \\ 1.10 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.08 \\ \$ 29.94 \\ 3.59 \% \\ 1.09 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.13 \\ \$ 31.10 \\ 3.65 \% \end{array}$ | $\begin{array}{r} \$ 1.15 \\ \$ 32.25 \\ 3.58 \% \\ 1.10 \\ \hline \end{array}$ | $\$ 1.15$ <br> $\$ 31.53$ <br> 3.64\% <br> 1.12 | $\begin{array}{r} -0.50 \% \\ -0.11 \end{array}$ |
| 339 | Miscellaneous mfg.: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S | $\begin{array}{r} \$ 1.97 \\ \$ 75.57 \\ 2.61 \% \\ 0.77 \end{array}$ | $\begin{array}{r} \$ 2.01 \\ \$ 81.30 \\ 2.47 \% \\ 0.74 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.98 \\ \$ 83.17 \\ 2.38 \% \\ 0.72 \end{array}$ | $\begin{array}{r} \$ 1.91 \\ \$ 80.53 \\ 2.37 \% \\ 0.70 \end{array}$ | $\begin{array}{r} \$ 2.03 \\ \$ 81.44 \\ 2.50 \% \\ 0.74 \end{array}$ | $\begin{array}{r} \$ 1.97 \\ \$ 80.57 \\ 2.44 \% \\ 0.73 \end{array}$ | $\begin{array}{r} \$ 2.14 \\ \$ 81.84 \\ 2.62 \% \\ 0.77 \end{array}$ | $\begin{array}{r} \$ 2.17 \\ \$ 81.33 \\ 2.67 \% \\ 0.79 \end{array}$ | $\begin{array}{r} \$ 2.22 \\ \$ 87.53 \\ 2.54 \% \\ 0.76 \end{array}$ | $\begin{array}{r} \$ 2.41 \\ \$ 91.16 \\ 2.64 \% \end{array}$ | $\begin{array}{r} \$ 2.50 \\ \$ 95.09 \\ 2.63 \% \\ 0.81 \end{array}$ | $\begin{array}{r} \$ 2.53 \\ \$ 96.91 \\ 2.61 \% \end{array}$ | $\begin{array}{r} \$ 2.73 \\ \$ 100.57 \\ 2.71 \% \end{array}$ | $0.11 \%$ 0.06 |

Notes: ^ - a recession year for the nation as a whole; *- initial for specific industries, revised for higher levels; prior years may have been revised
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

| $\begin{aligned} & 2012 \\ & \text { NAICS } \end{aligned}$ | Industry Title | Dollar figures in billions，standardized on 2012 |  |  |  |  |  |  |  |  |  |  |  |  | Real Net Change |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2008＾ | 2009＾ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020＾＊ | Numeric | Percent |
| Durable Goods in Constant Dollars |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11－92 | Total GDP：Ohio U．S． Ohio as percent of U．S． | $\begin{array}{r} \$ 537.1 \\ \$ 15,643.0 \\ 3.43 \% \end{array}$ | $\begin{array}{r} \$ 511.1 \\ \$ 15,236.3 \\ 3.35 \% \end{array}$ | $\begin{array}{r} \$ 524.0 \\ \$ 15,649.0 \\ 3.35 \% \end{array}$ | $\begin{array}{r} \$ 541.2 \\ \$ 15,891.5 \\ 3.41 \% \end{array}$ | $\begin{array}{r} \$ 545.7 \\ \$ 16,254.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 556.2 \\ \$ 16,553.3 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 574.2 \\ \$ 16,932.1 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 578.9 \\ \$ 17,390.3 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 583.9 \\ \$ 17,680.3 \\ 3.30 \% \end{array}$ | $\begin{array}{r} \$ 590.7 \\ \$ 18,079.1 \\ 3.27 \% \end{array}$ | $\begin{array}{r} \$ 598.9 \\ \$ 18,606.8 \\ 3.22 \% \end{array}$ | $\begin{array}{r} \$ 611.1 \\ \$ 19,032.7 \\ 3.21 \% \end{array}$ | $\begin{array}{r} \$ 589.9 \\ \$ 18,384.7 \\ 3.21 \% \end{array}$ | $\begin{array}{r} \$ 52.8 \\ \$ 2,741.7 \\ -0.23 \% \end{array}$ | $\begin{gathered} 9.8 \% \\ 17.5 \% \end{gathered}$ |
| $\begin{gathered} \overline{32 p} \& \\ 33 \end{gathered}$ | Durable goods summary：Ohio U．S． <br> Ohio as percent of U．S． <br> Concentration ratio－Ohio：：U．S | $\begin{array}{r} \$ 58.85 \\ \$ 1,004.51 \\ 5.86 \% \\ 1.71 \\ \hline \end{array}$ | \＄38．48 \＄858．23 4．48\％ 1.34 | $\$ 45.23$ \＄968．84 4．67\％ 1.39 | $\$ 51.55$ $\$ 1,035.63$ 4．98\％ 1.46 | $\begin{array}{r} \$ 52.33 \\ \$ 1,065.21 \\ 4.91 \% \\ 1.46 \\ \hline \end{array}$ | $\begin{array}{r} \$ 53.04 \\ \$ 1,090.33 \\ 4.86 \% \\ 1.45 \\ \hline \end{array}$ | \＄1，106．78 <br> 5．00\％ <br> 1.48 | $\begin{array}{r} \$ 55.21 \\ \$ 1,124.00 \\ 4.91 \% \\ 1.48 \\ \hline \end{array}$ | $\$ 55.11$ $\$ 1,126.00$ $4.89 \%$ <br> 1.48 | $\$ 56.93$ $\$ 1,172.76$ $4.85 \%$ 1.49 | $\begin{array}{r} \$ 55.85 \\ \$ 1,229.39 \\ 4.54 \% \\ 1.41 \\ \hline \end{array}$ | $\$ 56.29$ $\$ 1,239.16$ $4.54 \%$ 1.41 | $\begin{array}{r} \$ 52.50 \\ \$ 1,178.28 \\ 4.46 \% \\ 1.39 \\ \hline \end{array}$ | －\＄6．35 \＄173．78 －1．40\％ －0．32 | $\begin{gathered} -10.8 \% \\ 17.3 \% \end{gathered}$ |
| 321 | Wood products：Ohio U．S． <br> Ohio as percent of U．S． Concentration ratio－Ohio：：U．S | $\begin{array}{r} \$ 0.82 \\ \$ 25.32 \\ 3.24 \% \\ 0.94 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.71 \\ \$ 21.52 \\ 3.31 \% \\ 0.99 \end{array}$ | $\begin{array}{r} \$ 0.77 \\ \$ 22.94 \\ 3.34 \% \\ 1.00 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.86 \\ \$ 25.44 \\ 3.40 \% \\ 1.00 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.72 \\ \$ 25.82 \\ 2.80 \% \\ 0.83 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.68 \\ \$ 26.48 \\ 2.56 \% \\ 0.76 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.73 \\ \$ 24.24 \\ 3.02 \% \\ 0.89 \end{array}$ | $\begin{array}{r} \$ 0.76 \\ \$ 26.51 \\ 2.85 \% \\ 0.86 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 0.84 \\ \$ 28.25 \\ 2.99 \% \\ 0.91 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.90 \\ \$ 29.01 \\ 3.09 \% \\ 0.95 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.84 \\ \$ 27.57 \\ 3.03 \% \\ 0.94 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.95 \\ \$ 29.51 \\ 3.23 \% \\ 1.01 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.92 \\ \$ 28.44 \\ 3.23 \% \\ 1.01 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.10 \\ \$ 3.12 \\ -0.01 \% \\ 0.06 \end{array}$ | $\begin{aligned} & \hline 11.9 \% \\ & 12.3 \% \end{aligned}$ |
| 327 | Nonmetallic mineral products：Ohio U．S． <br> Ohio as percent of U．S． <br> Concentration ratio－Ohio：：U．S | $\begin{array}{r} \$ 2.83 \\ \$ 46.85 \\ 6.04 \% \\ 1.76 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.38 \\ \$ 37.84 \\ 6.28 \% \end{array}$ | $\begin{array}{r} \$ 2.63 \\ \$ 38.73 \\ 6.79 \% \\ 2.03 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.88 \\ \$ 40.55 \\ 7.09 \% \\ 2.08 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.13 \\ \$ 42.71 \\ 7.33 \% \\ 2.18 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.18 \\ \$ 45.23 \\ 7.03 \% \\ 2.09 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.02 \\ \$ 45.84 \\ 6.58 \% \\ 1.94 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.74 \\ \$ 46.38 \\ 5.90 \% \end{array}$ | $\begin{array}{r} \$ 2.70 \\ \$ 46.06 \\ 5.86 \% \end{array}$ | $\begin{array}{r} \$ 2.92 \\ \$ 49.29 \\ 5.93 \% \\ 1.81 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.01 \\ \$ 49.07 \\ 6.14 \% \\ 1.91 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.19 \\ \$ 49.67 \\ 6.41 \% \\ 2.00 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.14 \\ \$ 49.35 \\ 6.36 \% \\ 1.98 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.31 \\ \$ 2.50 \\ 0.32 \% \\ 0.22 \\ \hline \end{array}$ | $\begin{array}{r} \hline 11.0 \% \\ 5.3 \% \end{array}$ |
| 331 | Primary metals：Ohio U．S． Ohio as percent of U．S． Concentration ratio－Ohio：：U．S | $\begin{array}{r} \$ 5.94 \\ \$ 53.53 \\ 11.10 \% \\ 3.23 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.61 \\ \$ 49.91 \\ 7.24 \% \\ 2.16 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.83 \\ \$ 50.87 \\ 9.49 \% \\ 2.83 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.54 \\ \$ 56.52 \\ 9.80 \% \\ 2.88 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.55 \\ \$ 65.76 \\ 8.44 \% \\ 2.51 \\ \hline \end{array}$ | $\begin{array}{r} \$ 6.31 \\ \$ 69.60 \\ 9.06 \% \\ 2.70 \\ \hline \end{array}$ | $\begin{array}{r} \$ 6.42 \\ \$ 68.16 \\ 9.42 \% \\ 2.78 \\ \hline \end{array}$ | $\begin{array}{r} \$ 8.17 \\ \$ 74.73 \\ 10.93 \% \\ 3.28 \\ \hline \end{array}$ | $\begin{array}{r} \$ 8.24 \\ \$ 79.27 \\ 10.40 \% \\ 3.15 \\ \hline \end{array}$ | $\begin{array}{r} \$ 6.38 \\ \$ 70.76 \\ 9.02 \% \\ 2.76 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.78 \\ \$ 72.84 \\ 7.94 \% \\ 2.47 \\ \hline \end{array}$ | $\begin{array}{r} \$ 6.25 \\ \$ 79.75 \\ 7.83 \% \\ 2.44 \\ \hline \end{array}$ | $\begin{array}{r} \$ 7.44 \\ \$ 91.10 \\ 8.16 \% \\ 2.54 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.49 \\ \$ 37.57 \\ -2.94 \% \\ -0.69 \\ \hline \end{array}$ | $\begin{aligned} & \hline 25.1 \% \\ & 70.2 \% \end{aligned}$ |
| 332 | Fabricated metal products：Ohio U．S． <br> Ohio as percent of U．S． <br> Concentration ratio－Ohio：：U．S | $\$ 13.50$ $\$ 151.24$ 8．92\％ 2.60 | $\begin{array}{r} \$ 8.53 \\ \$ 114.22 \\ 7.47 \% \\ 2.23 \\ \hline \end{array}$ | $\begin{array}{r} \$ 10.11 \\ \$ 125.64 \\ 8.05 \% \end{array}$ | $\$ 11.08$ $\$ 133.62$ 8．29\％ 2.43 | $\begin{array}{r} \$ 10.82 \\ \$ 137.98 \\ 7.84 \% \\ 2.34 \\ \hline \end{array}$ | \＄10．42 \＄137．08 7．60\％ 2.26 | $\begin{array}{r} \$ 10.83 \\ \$ 139.47 \\ 7.77 \% \\ 2.29 \\ \hline \end{array}$ | $\$ 10.29$ $\$ 134.73$ 7．64\％ 2.29 | $\begin{array}{r} \$ 9.63 \\ \$ 131.03 \\ 7.35 \% \\ 2.23 \\ \hline \end{array}$ | \＄10．57 \＄138．68 7．62\％ | $\begin{array}{r} \$ 10.24 \\ \$ 142.28 \\ 7.19 \% \\ 2.24 \\ \hline \end{array}$ | $\begin{array}{r} \$ 10.22 \\ \$ 141.53 \\ 7.22 \% \\ 2.25 \\ \hline \end{array}$ | $\$ 8.58$ $\$ 123.26$ <br> 6．96\％ <br> 2.17 | $\begin{array}{r} -\$ 4.91 \\ -\$ 27.98 \\ -1.96 \% \end{array}$ | $\begin{aligned} & \hline-36.4 \% \\ & -18.5 \% \end{aligned}$ |
| 333 | Machinery：Ohio U．S． Ohio as percent of U．S． Concentration ratio－Ohio：：U．S | $\begin{array}{r} \$ 7.97 \\ \$ 146.69 \\ 5.44 \% \\ 1.58 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.84 \\ \$ 118.05 \\ 4.95 \% \\ 1.47 \end{array}$ | $$ | $\begin{array}{r} \$ 7.71 \\ \$ 151.35 \\ 5.09 \% \\ 1.50 \end{array}$ | $\begin{array}{r} \$ 7.51 \\ \$ 152.99 \\ 4.91 \% \\ 1.46 \end{array}$ | $\begin{array}{r} \$ 8.43 \\ \$ 152.06 \\ 5.54 \% \\ 1.65 \\ \hline \end{array}$ | $\begin{array}{r} \$ 8.18 \\ \$ 150.34 \\ 5.44 \% \\ 1.60 \\ \hline \end{array}$ | $\begin{array}{r} \$ 7.70 \\ \$ 134.93 \\ 5.70 \% \\ 1.71 \end{array}$ | $\begin{array}{r} \$ 7.57 \\ \$ 124.07 \\ 6.10 \% \\ 1.85 \\ \hline \end{array}$ | $\begin{array}{r} \$ 8.31 \\ \$ 134.34 \\ 6.19 \% \\ 1.89 \end{array}$ | $\begin{array}{r} \$ 7.93 \\ \$ 142.47 \\ 5.57 \% \\ 1.73 \\ \hline \end{array}$ | $\begin{array}{r} \$ 7.54 \\ \$ 140.49 \\ 5.37 \% \\ 1.67 \end{array}$ | $\begin{array}{r} \$ 6.86 \\ \$ 128.18 \\ 5.35 \% \\ 1.67 \\ \hline \end{array}$ | $\begin{array}{r} -\$ 1.11 \\ -\$ 18.51 \\ -0.08 \% \\ 0.09 \\ \hline \end{array}$ | －14．0\％ $-12.6 \%$ |
| 334 | Computer \＆electronic products：Ohio U．S． <br> Ohio as percent of U．S． <br> Concentration ratio－Ohio：：U．S． | $\begin{array}{r} \$ 2.84 \\ \$ 195.98 \\ 1.45 \% \\ 0.42 \end{array}$ | $\begin{array}{r} \hline \$ 1.89 \\ \$ 200.37 \\ 0.94 \% \\ 0.28 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.26 \\ \$ 227.09 \\ 1.00 \% \\ 0.30 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.16 \\ \$ 232.69 \\ 0.93 \% \\ 0.27 \end{array}$ | $\begin{array}{r} \$ 2.72 \\ \$ 241.26 \\ 1.13 \% \\ 0.34 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.79 \\ \$ 248.44 \\ 1.12 \% \\ 0.33 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.85 \\ \$ 261.21 \\ 1.09 \% \\ 0.32 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.53 \\ \$ 282.30 \\ 0.90 \% \\ 0.27 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.44 \\ \$ 291.04 \\ 0.84 \% \\ 0.25 \end{array}$ | $\begin{array}{r} \$ 2.88 \\ \$ 305.63 \\ 0.94 \% \\ 0.29 \end{array}$ | $\begin{array}{r} \$ 3.21 \\ \$ 336.24 \\ 0.95 \% \\ 0.30 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.04 \\ \$ 340.69 \\ 0.89 \% \\ 0.28 \\ \hline \end{array}$ | $\$ 3.02$ $\$ 350.96$ 0．86\％ 0.27 | $\begin{array}{r} \$ 0.18 \\ \$ 154.98 \\ -0.59 \% \\ -0.15 \\ \hline \end{array}$ | $\begin{array}{r} \hline 6.2 \% \\ 79.1 \% \end{array}$ |
| 335 | Electrical eqpt．\＆appliances：Ohio U．S． <br> Ohio as percent of U．S． Concentration ratio－Ohio：：U．S | $\begin{array}{r} \$ 4.95 \\ \$ 61.37 \\ 8.07 \% \\ 2.35 \end{array}$ | $\begin{array}{r} \$ 3.93 \\ \$ 51.11 \\ 7.69 \% \\ 2.29 \end{array}$ | $\begin{array}{r} \$ 3.86 \\ \$ 52.78 \\ 7.32 \% \\ 2.19 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.78 \\ \$ 51.03 \\ 7.41 \% \\ 2.17 \end{array}$ | $\begin{array}{r} \$ 3.97 \\ \$ 52.15 \\ 7.62 \% \\ 2.27 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.94 \\ \$ 57.35 \\ 6.87 \% \\ 2.04 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.87 \\ \$ 53.60 \\ 7.23 \% \\ 2.13 \end{array}$ | $\begin{array}{r} \$ 4.59 \\ \$ 61.44 \\ 7.47 \% \\ 2.24 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 4.38 \\ \$ 56.71 \\ 7.73 \% \\ 2.34 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.56 \\ \$ 59.66 \\ 7.63 \% \\ 2.34 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 4.50 \\ \$ 61.56 \\ 7.31 \% \\ 2.27 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 4.54 \\ \$ 59.09 \\ 7.68 \% \\ 2.39 \end{array}$ | $\begin{array}{r} \$ 4.40 \\ \$ 57.75 \\ 7.61 \% \\ 2.37 \\ \hline \end{array}$ | $\begin{array}{r} -\$ 0.56 \\ -\$ 3.62 \\ -0.46 \% \\ 0.02 \end{array}$ | $-11.3 \%$ $-5.9 \%$ |
| 3361－3 | Motor vehicles，bodies，trailers \＆parts：Ohio U．S． <br> Ohio as percent of U．S． <br> Concentration ratio－Ohio：：U．S． | $\begin{array}{r} \hline \$ 11.08 \\ \$ 99.58 \\ 11.13 \% \\ 3.24 \end{array}$ | $\begin{array}{r} \$ 3.61 \\ \$ 43.26 \\ 8.35 \% \\ 2.49 \end{array}$ | $\begin{array}{r} \$ 8.71 \\ \$ 87.14 \\ 7.70 \% \\ 2.30 \end{array}$ | $\begin{array}{r} \$ 9.55 \\ \$ 110.44 \\ 8.65 \% \\ 2.54 \\ \hline \end{array}$ | $\begin{array}{r} \$ 10.69 \\ \$ 115.77 \\ 9.23 \% \\ 2.75 \end{array}$ | $\begin{array}{r} \$ 9.87 \\ \$ 120.65 \\ 8.18 \% \\ 2.43 \end{array}$ | $\begin{array}{r} \hline \$ 11.26 \\ \$ 125.34 \\ 8.98 \% \\ 2.65 \\ \hline \end{array}$ | \＄10．28 <br> \＄123．34 <br> 8．34\％ <br> 2.5 | \＄10．19 <br> \＄128．92 <br> $7.90 \%$ 2.39 | $\begin{array}{r} \$ 9.74 \\ \$ 134.39 \\ 7.25 \% \\ 2.22 \\ \hline \end{array}$ | $\begin{array}{r} \$ 10.05 \\ \$ 139.83 \\ 7.19 \% \\ 2.23 \\ \hline ⿷ 匚 ⿳ 丨 コ \end{array}$ | \＄10．36 \＄141．32 7．33\％ 2.28 | $\begin{array}{r} \$ 9.71 \\ \$ 138.17 \\ 7.03 \% \\ 2.19 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 1.37 \\ \$ 38.59 \\ -4.10 \% \\ -1.05 \end{array}$ | $\begin{gathered} -12.4 \% \\ 38.8 \% \end{gathered}$ |
| 3364－ | Other transportation eqpt．：Ohio U．S． <br> Ohio as percent of U．S． <br> Concentration ratio－Ohio：：U．S | $\begin{array}{r} \$ 5.50 \\ \$ 124.43 \\ 4.42 \% \\ 1.29 \end{array}$ | $\begin{array}{r} \$ 5.22 \\ \$ 121.09 \\ 4.31 \% \\ 1.28 \end{array}$ | $\begin{array}{r} \$ 4.75 \\ \$ 124.44 \\ 3.82 \% \\ 1.14 \end{array}$ | $\begin{array}{r} \$ 5.14 \\ \$ 129.57 \\ 3.97 \% \\ 1.17 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.39 \\ \$ 126.90 \\ 3.46 \% \\ 1.03 \\ \hline \$ 080 \end{array}$ | $\begin{array}{r} \$ 4.71 \\ \$ 130.43 \\ 3.61 \% \\ 1.08 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.20 \\ \$ 133.42 \\ 3.90 \% \\ 1.15 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.55 \\ \$ 139.24 \\ 3.99 \% \\ 1.20 \end{array}$ | $\begin{array}{r} \$ 6.45 \\ \$ 137.04 \\ 4.71 \% \\ 1.43 \\ \hline \end{array}$ | $\begin{array}{r} \$ 7.34 \\ \$ 140.51 \\ 5.22 \% \\ 1.60 \end{array}$ | $\begin{array}{r} \$ 6.74 \\ \$ 145.42 \\ 4.63 \% \\ 1.44 \\ \hline \end{array}$ | $\begin{array}{r} \$ 6.77 \\ \$ 148.97 \\ 4.54 \% \\ 1.42 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.57 \\ \$ 114.93 \\ 4.85 \% \\ 1.51 \\ \hline \end{array}$ | $\begin{gathered} \hline \$ 0.07 \\ -\$ 9.50 \\ 0.43 \% \\ 0.22 \\ \hline \end{gathered}$ | $\begin{gathered} \hline 1.3 \% \\ -7.6 \% \end{gathered}$ |
| 337 | Furniture \＆related products：Ohio U．S． <br> Ohio as percent of U．S． <br> Concentration ratio－Ohio：：U．S | $\begin{array}{r} \$ 1.28 \\ \$ 30.98 \\ 4.13 \% \\ 1.20 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.91 \\ \$ 22.50 \\ 4.04 \% \\ 1.20 \end{array}$ | $\begin{array}{r} \$ 0.81 \\ \$ 22.62 \\ 3.60 \% \\ 1.07 \end{array}$ | $\begin{array}{r} \$ 0.90 \\ \$ 22.94 \\ 3.94 \% \\ 1.16 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 0.80 \\ \$ 22.42 \\ 3.57 \% \\ 1.06 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.82 \\ \$ 23.97 \\ 3.44 \% \\ 1.02 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.94 \\ \$ 25.47 \\ 3.68 \% \\ 1.09 \end{array}$ | $\begin{array}{r} \$ 0.98 \\ \$ 27.31 \\ 3.57 \% \\ 1.07 \end{array}$ | $\begin{array}{r} \hline \$ 1.01 \\ \$ 27.70 \\ 3.66 \% \\ 1.11 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 0.99 \\ \$ 27.57 \\ 3.59 \% \\ 1.10 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 1.05 \\ \$ 28.89 \\ 3.65 \% \\ 1.13 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 1.01 \\ \$ 28.32 \\ 3.58 \% \\ 1.11 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.97 \\ \$ 26.58 \\ 3.64 \% \\ 1.13 \\ \hline \end{array}$ | $\begin{array}{r} -\$ 0.31 \\ -\$ 4.40 \\ -0.50 \% \\ -0.07 \end{array}$ | $\begin{aligned} & \hline-24.5 \% \\ & -14.2 \% \end{aligned}$ |
| 339 | Miscellaneous mfg．：Ohio U．S． <br> Ohio as percent of U．S． Concentration ratio－Ohio：：U．S． | $\begin{array}{r} \$ 2.07 \\ \$ 79.36 \\ 2.61 \% \\ 0.76 \end{array}$ | $\begin{array}{r} \$ 2.00 \\ \$ 81.01 \\ 2.47 \% \\ 0.74 \end{array}$ | $\begin{array}{r} \$ 2.01 \\ \$ 84.33 \\ 2.38 \% \\ 0.71 \end{array}$ | $\begin{array}{r} \$ 1.95 \\ \$ 82.05 \\ 2.37 \% \\ 0.70 \end{array}$ | $\begin{array}{r} \$ 2.03 \\ \$ 81.44 \\ 2.50 \% \\ 0.74 \end{array}$ | $\begin{array}{r} \$ 1.94 \\ \$ 79.29 \\ 2.44 \% \\ 0.73 \end{array}$ | $\begin{array}{r} \$ 2.11 \\ \$ 80.68 \\ 2.62 \% \\ 0.77 \end{array}$ | $\begin{array}{r} \$ 2.07 \\ \$ 77.49 \\ 2.67 \% \\ 0.80 \end{array}$ | $\begin{array}{r} \$ 2.10 \\ \$ 82.62 \\ 2.54 \% \\ 0.77 \end{array}$ | $\begin{array}{r} \hline \$ 2.28 \\ \$ 86.51 \\ 2.64 \% \\ 0.81 \end{array}$ | $\begin{array}{r} \$ 2.37 \\ \$ 90.38 \\ 2.63 \% \\ 0.82 \end{array}$ | $\begin{array}{r} \$ 2.31 \\ \$ 88.32 \\ 2.61 \% \\ 0.81 \end{array}$ | $\begin{array}{r} \$ 2.41 \\ \$ 88.92 \\ 2.71 \% \\ 0.85 \end{array}$ | $\begin{gathered} \hline \$ 0.34 \\ \$ 9.56 \\ 0.11 \% \\ 0.09 \end{gathered}$ | $\begin{aligned} & 16.6 \% \\ & 12.0 \% \end{aligned}$ |

Notes：＾－a recession year for the nation as a whole；＊－initial；prior years may have been revised
Source：U．S．BEA（2021）．Prepared by：Office of Research，Ohio Dept．of Development．Telephone 614－466－2116（DL，1／22）．

|  |  | Dollar figures in Billions |  |  |  |  |  |  |  |  |  |  |  |  | Nominal Net Change |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 2012 \\ & \text { NAICS } \end{aligned}$ | Industry Title | 2008^ | 2009^ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020^* |  |
| Non-d | Goods in Current Dollars |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11-92 | Total GDP: Ohio U.S. Ohio as percent of U.S. | $\begin{array}{r} \$ 496.9 \\ \$ 14,769.9 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 482.3 \\ \$ 14,478.1 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 500.5 \\ \$ 15,049.0 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 528.2 \\ \$ 15,599.7 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 545.7 \\ \$ 16,254.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 566.5 \\ \$ 16,843.2 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 595.6 \\ \$ 17,550.7 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 611.0 \\ \$ 18,206.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 623.3 \\ \$ 18,695.1 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 641.7 \\ \$ 19,479.6 \\ 3.29 \% \end{array}$ | $\begin{array}{r} \$ 667.0 \\ \$ 20,527.2 \\ 3.25 \% \end{array}$ | $\begin{array}{r} \$ 693.2 \\ \$ 21,372.6 \\ 3.24 \% \end{array}$ | $\begin{array}{r} \$ 677.6 \\ \$ 20,893.7 \\ 3.24 \% \end{array}$ | -0.12\% |
| $\begin{gathered} \overline{31 \&} \\ 32 p \end{gathered}$ | Non-durable goods summary: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S | $\$ 30.28$ $\$ 801.85$ 3.78\% 1.12 | $\begin{array}{r} \$ 36.63 \\ \$ 820.47 \\ 4.46 \% \\ 1.34 \\ \hline \end{array}$ | $\$ 37.14$ $\$ 834.26$ 4.45\% 1.34 | \$41.19 \$855.70 4.81\% 1.42 | $\begin{array}{r} \$ 39.72 \\ \$ 869.45 \\ 4.57 \% \\ 1.36 \\ \hline \end{array}$ | $\begin{array}{r} \$ 40.80 \\ \$ 892.81 \\ 4.57 \% \\ 1.36 \\ \hline \end{array}$ | \$47.82 $\$ 917.90$ 5.21\% 1.54 | \$44.85 $\$ 946.60$ 4.74\% 1.41 | \$43.61 $\$ 915.08$ 4.77\% 1.43 | $\begin{array}{r} \$ 44.88 \\ \$ 963.83 \\ 4.66 \% \\ 1.41 \\ \hline \end{array}$ | $\begin{array}{r} \$ 48.61 \\ \$ 1,035.27 \\ 4.70 \% \\ 1.44 \\ \hline \end{array}$ | $\$ 49.04$ $\$ 1,043.05$ <br> 4.70\% <br> 1.45 | \$1,003.13 4.76\% | $\begin{array}{r} 0.98 \% \\ 0.34 \\ \hline \end{array}$ |
| 311-2 | Food, beverage \& tobacco products: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S. | $\$ 8.16$ $\$ 199.28$ 4.09\% 1.22 | $\begin{array}{r} \$ 9.85 \\ \$ 237.65 \\ 4.15 \% \\ 1.24 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.32 \\ \$ 223.52 \\ 4.17 \% \\ 1.25 \end{array}$ | $\begin{array}{r} \$ 8.86 \\ \$ 209.80 \\ 4.22 \% \\ 1.25 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.57 \\ \$ 220.06 \\ 4.35 \% \\ 1.29 \\ \hline \end{array}$ | \$10.69 \$228.45 4.68\% 1.39 | $\$ 11.62$ \$238.87 4.87\% 1.43 | \$11.92 \$261.92 4.55\% 1.36 | $\$ 11.82$ \$264.65 4.47\% 1.34 | $\begin{array}{r} \$ 12.01 \\ \$ 267.43 \\ 4.49 \% \\ 1.36 \\ \hline \end{array}$ | \$11.42 \$265.18 4.31\% 1.33 | $\begin{array}{r} \$ 11.60 \\ \$ 277.76 \\ 4.18 \% \\ 1.29 \\ \hline \end{array}$ | $\begin{array}{r} \$ 12.32 \\ \$ 289.76 \\ 4.25 \% \\ 1.31 \\ \hline \end{array}$ | $\begin{array}{r} 0.16 \% \\ 0.09 \\ \hline \end{array}$ |
| 313-4 | Textile \& textile product mills: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S | $\begin{array}{r} \$ 0.36 \\ \$ 17.84 \\ 2.00 \% \\ 0.60 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.30 \\ \$ 15.12 \\ 1.95 \% \\ 0.59 \end{array}$ | $\begin{array}{r} \$ 0.36 \\ \$ 15.55 \\ 2.29 \% \\ 0.69 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.35 \\ \$ 15.07 \\ 2.32 \% \\ 0.69 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.32 \\ \$ 15.97 \\ 1.99 \% \\ 0.59 \end{array}$ | $\begin{array}{r} \$ 0.38 \\ \$ 16.77 \\ 2.28 \% \\ 0.68 \end{array}$ | $\begin{array}{r} \$ \$ .39 \\ \$ 17.84 \\ 2.16 \% \\ 0.64 \end{array}$ | $\begin{array}{r} \$ 0.38 \\ \$ 17.94 \\ 2.09 \% \\ 0.62 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.33 \\ \$ 18.58 \\ 1.78 \% \\ 0.53 \\ \hline \end{array}$ | $\begin{array}{r} \$ \$ 0.34 \\ \$ 17.68 \\ 1.93 \% \\ 0.58 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.37 \\ \$ 16.73 \\ 2.19 \% \\ 0.67 \end{array}$ | $\begin{array}{r} \$ \$ .38 \\ \$ 16.76 \\ 2.27 \% \\ 0.70 \end{array}$ | $\begin{array}{r} \$ 0.37 \\ \$ 15.30 \\ 2.41 \% \\ 0.74 \end{array}$ | $\begin{array}{r} 0.41 \% \\ 0.15 \\ \hline \end{array}$ |
| 315-6 | Apparel, leather \& allied products: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S. | $\begin{array}{r} \$ 0.20 \\ \$ 11.57 \\ 1.77 \% \\ 0.53 \end{array}$ | $\begin{gathered} \hline \$ 0.17 \\ \$ 9.87 \\ 1.75 \% \\ 0.52 \\ \hline \end{gathered}$ | $\begin{array}{r} \$ 0.14 \\ \$ 10.39 \\ 1.35 \% \\ 0.41 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.13 \\ \$ 10.13 \\ 1.33 \% \\ 0.39 \end{array}$ | $\begin{array}{r} \$ \$ .12 \\ \$ 10.12 \\ 1.16 \% \\ 0.35 \end{array}$ | $\begin{array}{r} \$ 0.14 \\ \$ 10.22 \\ 1.36 \% \\ 0.40 \end{array}$ | $\begin{gathered} \hline \$ 0.14 \\ \$ 9.92 \\ 1.42 \% \\ 0.42 \\ \hline \end{gathered}$ | $\begin{gathered} \hline \$ 0.14 \\ \$ 9.69 \\ 1.43 \% \\ 0.43 \\ \hline \end{gathered}$ | $\begin{array}{r} \hline \$ 0.17 \\ \$ 9.61 \\ 1.73 \% \\ 0.52 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.14 \\ \$ 9.41 \\ 1.49 \% \\ 0.45 \\ \hline \end{array}$ | $\begin{gathered} \hline \$ 0.18 \\ \$ 9.30 \\ 1.94 \% \\ 0.60 \\ \hline \end{gathered}$ | $\begin{array}{r} \$ 0.19 \\ \$ 9.32 \\ 2.01 \% \\ 0.62 \\ \hline \end{array}$ | $\begin{gathered} \$ 0.23 \\ \$ 9.80 \\ 2.30 \% \\ 0.71 \\ \hline \end{gathered}$ | $\begin{array}{r} 0.53 \% \\ 0.18 \\ \hline \end{array}$ |
| 322 | Paper: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S. | $\begin{array}{r} \$ 2.11 \\ \$ 51.40 \\ 4.10 \% \\ 1.22 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.19 \\ \$ 59.23 \\ 3.70 \% \\ 1.11 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.15 \\ \$ 56.38 \\ 3.81 \% \\ 1.15 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.13 \\ \$ 53.84 \\ 3.96 \% \\ 1.17 \end{array}$ | $\begin{array}{r} \$ 1.89 \\ \$ 53.16 \\ 3.55 \% \\ 1.06 \end{array}$ | $\begin{array}{r} \$ 1.92 \\ \$ 56.45 \\ 3.39 \% \\ 1.01 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.14 \\ \$ 56.81 \\ 3.77 \% \\ 1.11 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.18 \\ \$ 59.70 \\ 3.65 \% \\ 1.09 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.15 \\ \$ 58.40 \\ 3.69 \% \\ 1.11 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.07 \\ \$ 55.43 \\ 3.74 \% \\ 1.13 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.23 \\ \$ 59.19 \\ 3.76 \% \\ 1.16 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.33 \\ \$ 59.72 \\ 3.90 \% \\ 1.20 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.35 \\ \$ 59.74 \\ 3.94 \% \\ 1.21 \end{array}$ | $\begin{array}{r} -0.16 \% \\ 0.00 \\ \hline \end{array}$ |
| 323 | Printing \& related support activities: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S. | $\begin{array}{r} \$ 2.18 \\ \$ 45.20 \\ 4.82 \% \\ 1.43 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.04 \\ \$ 39.64 \\ 5.15 \% \\ 1.55 \end{array}$ | $\begin{array}{r} \$ 1.90 \\ \$ 39.46 \\ 4.81 \% \\ 1.45 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.85 \\ \$ 38.79 \\ 4.76 \% \\ 1.41 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.83 \\ \$ 38.44 \\ 4.75 \% \\ 1.41 \end{array}$ | $\begin{array}{r} \$ 1.79 \\ \$ 39.01 \\ 4.60 \% \\ 1.37 \end{array}$ | $\begin{array}{r} \$ 1.89 \\ \$ 39.07 \\ 4.83 \% \\ 1.42 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.99 \\ \$ 40.23 \\ 4.94 \% \\ 1.47 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.10 \\ \$ 41.22 \\ 5.09 \% \\ 1.53 \end{array}$ | $\begin{array}{r} \hline \$ 2.01 \\ \$ 40.61 \\ 4.95 \% \\ 1.50 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.90 \\ \$ 41.35 \\ 4.60 \% \\ 1.42 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 1.89 \\ \$ 41.29 \\ 4.58 \% \\ 1.41 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.81 \\ \$ 39.60 \\ 4.57 \% \\ 1.41 \\ \hline \end{array}$ | $\begin{array}{r}-0.26 \% \\ -0.03 \\ \hline\end{array}$ |
| 324 | Petroleum \& coal products: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio:: U.S. | $\begin{array}{r} \$ 2.47 \\ \$ 154.84 \\ 1.59 \% \\ 0.47 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.89 \\ \$ 110.63 \\ 5.32 \% \\ 1.60 \\ \hline \end{array}$ | $\begin{array}{r} \$ 6.64 \\ \$ 123.81 \\ 5.36 \% \\ 1.61 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.95 \\ \$ 159.06 \\ 6.26 \% \\ 185 \end{array}$ | $\begin{array}{r} \$ 7.63 \\ \$ 159.14 \\ 4.80 \% \\ 1.43 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.41 \\ \$ 151.31 \\ 6.22 \% \\ 1.85 \end{array}$ | \$13.74 \$158.18 8.69\% 2.56 | $\begin{array}{r} \$ 7.76 \\ \$ 145.56 \\ 5.33 \% \\ 1.59 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.18 \\ \$ 85.71 \\ 4.88 \% \\ 1.46 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.76 \\ \$ 132.03 \\ 4.36 \% \\ 1.32 \end{array}$ | $\begin{array}{r} \$ 8.25 \\ \$ 185.85 \\ 4.44 \% \\ 1.37 \\ \hline \end{array}$ | $\begin{array}{r} \$ 7.20 \\ \$ 163.58 \\ 4.40 \% \\ 136 \end{array}$ | $\begin{array}{r} \$ 5.14 \\ \$ 113.68 \\ 4.52 \% \\ 1.39 \\ \hline \$ 1051 \end{array}$ | $\begin{array}{r}2.93 \% \\ 0.92 \\ \hline\end{array}$ |
| 325 | Chemicals: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S. | $\begin{array}{r} \$ 10.58 \\ \$ 265.66 \\ 3.98 \% \\ 110 \end{array}$ | $\$ 11.52$ $\$ 287.96$ 4.00\% | $\begin{array}{r} \$ 11.97 \\ \$ 303.30 \\ 3.95 \% \\ 119 \end{array}$ | $\$ 12.88$ $\$ 305.96$ 4.21\% | $\begin{array}{r} \$ 12.91 \\ \$ 304.97 \\ 4.23 \% \end{array}$ | $\begin{array}{r} \$ 10.99 \\ \$ 321.47 \\ 3.42 \% \end{array}$ | $\begin{array}{r} \$ 12.61 \\ \$ 330.02 \\ 3.82 \% \end{array}$ | $\begin{array}{r} \$ 14.51 \\ \$ 333.26 \\ 4.35 \% \\ 1.20 \end{array}$ | $\begin{array}{r} \$ 16.99 \\ \$ 357.05 \\ 4.76 \% \\ 1.43 \end{array}$ | \$16.82 \$362.92 4.63\% 1.41 | $\begin{array}{r} \$ 17.89 \\ \$ 375.76 \\ 4.76 \% \\ 117 \end{array}$ | $\$ 19.28$ $\$ 390.96$ 4.93\% | $\begin{array}{r} \$ 19.54 \\ \$ 394.62 \\ 4.95 \% \\ \hline 15 \end{array}$ | $0.97 \%$ 0.34 |
| 326 | Plastic \& rubber products: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S. | $\begin{array}{r} \$ 4.22 \\ \$ 56.06 \\ 7.52 \% \\ 2.24 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.67 \\ \$ 60.37 \\ 7.73 \% \\ 2.32 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.66 \\ \$ 61.84 \\ 7.54 \% \\ 2.27 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.04 \\ \$ 63.06 \\ 7.99 \% \\ 2.36 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.47 \\ \$ 67.71 \\ 8.08 \% \\ 2.41 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.48 \\ \$ 69.13 \\ 7.92 \% \\ 2.35 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.29 \\ \$ 67.20 \\ 7.88 \% \\ 2.32 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.99 \\ \$ 78.30 \\ 7.64 \% \\ 2.28 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.87 \\ \$ 79.86 \\ 7.35 \% \\ 2.21 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.72 \\ \$ 78.31 \\ 7.31 \% \\ 2.22 \\ \hline \end{array}$ | $\begin{array}{r} \$ 6.38 \\ \$ 81.91 \\ 7.79 \% \\ 2.40 \\ \hline \end{array}$ | $\begin{array}{r} \$ 6.16 \\ \$ 83.67 \\ 7.36 \% \\ 2.27 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.95 \\ \$ 80.62 \\ 7.38 \% \\ 2.28 \\ \hline \end{array}$ | $-0.14 \%$ 0.04 |

Notes: ^ - a recession year for the nation as a whole; * - initial; prior years may have been revised
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

| 2012 |  | Dollar figures in billions, standardized on 2012 |  |  |  |  |  |  |  |  |  |  |  |  | Real Net Change Numeric Percent |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NAICS | Industry Title | 2008^ | 2009^ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020^* |  |  |
| Non-durable Goods in Constant Dollars |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11-92 | Total GDP: Ohio U.S. Ohio as percent of U.S. | $\begin{array}{r} \$ 537.1 \\ \$ 15,643.0 \\ 3.43 \% \end{array}$ | $\begin{array}{r} \$ 511.1 \\ \$ 15,236.3 \\ 3.35 \% \end{array}$ | $\begin{array}{r} \$ 524.0 \\ \$ 15,649.0 \\ 3.35 \% \end{array}$ | $\begin{array}{r} \$ 541.2 \\ \$ 15,891.5 \\ 3.41 \% \end{array}$ | $\begin{array}{r} \$ 545.7 \\ \$ 16,254.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 556.2 \\ \$ 16,553.3 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 574.2 \\ \$ 16,932.1 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 578.9 \\ \$ 17,390.3 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 583.9 \\ \$ 17,680.3 \\ 3.30 \% \end{array}$ | $\begin{array}{r} \$ 590.7 \\ \$ 18,079.1 \\ 3.27 \% \end{array}$ | $\begin{array}{r} \$ 598.9 \\ \$ 18,606.8 \end{array}$ $3.22 \%$ | $\begin{array}{r} \$ 611.1 \\ \$ 19,032.7 \\ 3.21 \% \end{array}$ | $\begin{array}{r} \$ 589.9 \\ \$ 18,384.7 \\ 3.21 \% \end{array}$ | $\begin{array}{r} \$ 52.8 \\ \$ 2,741.7 \\ -0.23 \% \end{array}$ | $\begin{gathered} 9.8 \% \\ 17.5 \% \end{gathered}$ |
| $\begin{gathered} \hline 31 \& \\ 32 p \end{gathered}$ | Non-durable goods summary: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S | $\$ 40.19$ $\$ 1,023.73$ <br> 3.93\% <br> 1.14 | $\$ 45.50$ $\$ 992.24$ 4.59\% | $\$ 44.35$ $\$ 974.82$ 4.55\% 1.36 | $\$ 43.97$ $\$ 911.49$ 4.82\% 1.42 | $\$ 39.72$ \$869.45 4.57\% 1.36 | $\$ 41.46$ $\$ 901.37$ 4.60\% 1.37 | \$48.58 \$916.98 5.30\% 1.56 | \$44.81 <br> \$922.20 4.86\% | \$44.86 $\$ 913.98$ 4.91\% 1.49 | $\$ 44.91$ $\$ 934.92$ 4.80\% | $\$ 46.83$ \$964.93 4.85\% 1.51 | $\$ 48.18$ $\$ 994.08$ 4.85\% 1.51 | $\$ 48.50$ $\$ 989.93$ 4.90\% 1.53 | $\begin{array}{r} \$ 8.31 \\ -\$ 33.80 \\ 0.97 \% \\ 0.38 \\ \hline \end{array}$ | $\begin{aligned} & 20.7 \% \\ & -3.3 \% \end{aligned}$ |
| 311-2 | Food, beverage \& tobacco products: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S. | $\begin{array}{r} \$ 9.92 \\ \$ 242.33 \\ 4.09 \% \\ 1.19 \\ \hline \end{array}$ | $\begin{array}{r} \$ 10.24 \\ \$ 247.07 \\ 4.15 \% \\ 1.24 \end{array}$ | $\begin{array}{r} \$ 9.76 \\ \$ 234.03 \\ 4.17 \% \\ 1.25 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.59 \\ \$ 227.11 \\ 4.22 \% \\ 1.24 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.57 \\ \$ 220.06 \\ 4.35 \% \\ 1.29 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 10.51 \\ \$ 224.68 \\ 4.68 \% \\ 1.39 \\ \hline \end{array}$ | $\begin{array}{r} \$ 10.97 \\ \$ 225.40 \\ 4.87 \% \\ 1.43 \\ \hline \end{array}$ | $\begin{array}{r} \$ 10.68 \\ \$ 234.71 \\ 4.55 \% \\ 1.37 \end{array}$ | $\begin{array}{r} \$ 10.19 \\ \$ 228.14 \\ 4.47 \% \\ 1.35 \end{array}$ | $\begin{array}{r} \hline \$ 10.78 \\ \$ 239.97 \\ 4.49 \% \\ 1.37 \\ \hline \end{array}$ | $\begin{array}{r} \$ 10.59 \\ \$ 245.92 \\ 4.31 \% \\ 1.34 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 10.51 \\ \$ 251.58 \\ 4.18 \% \\ 1.30 \\ \hline \end{array}$ | $\begin{array}{r} \$ 10.43 \\ \$ 245.22 \\ 4.25 \% \\ 1.33 \end{array}$ | $\begin{gathered} \$ 0.51 \\ \$ 2.88 \\ 0.16 \% \\ 0.13 \\ \hline \end{gathered}$ | 5.1\% |
| 313-4 | Textile \& textile product mills: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S | $\begin{array}{r} \$ 0.43 \\ \$ 21.49 \\ 2.00 \% \\ 0.58 \end{array}$ | $\begin{array}{r} \hline \$ 0.33 \\ \$ 16.66 \\ 1.95 \% \\ 0.58 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 0.38 \\ \$ 16.63 \\ 2.29 \% \\ 0.68 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.34 \\ \$ 14.74 \\ 2.32 \% \\ 0.68 \end{array}$ | $\begin{array}{r} \hline \$ 0.32 \\ \$ 15.97 \\ 1.99 \% \\ 0.59 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.39 \\ \$ 16.92 \\ 2.28 \% \\ 0.68 \end{array}$ | $\begin{array}{r} \hline \$ 0.38 \\ \$ 17.69 \\ 2.16 \% \\ 0.64 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 0.36 \\ \$ 17.28 \\ 2.09 \% \\ 0.63 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 0.31 \\ \$ 17.61 \\ 1.78 \% \\ 0.54 \end{array}$ | $\begin{array}{r} \$ 0.33 \\ \$ 17.21 \\ 1.93 \% \\ 0.59 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.35 \\ \$ 16.21 \\ 2.19 \% \\ 0.68 \end{array}$ | $\begin{array}{r} \$ 0.37 \\ \$ 16.13 \\ 2.27 \% \\ 0.71 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 0.35 \\ \$ 14.68 \\ 2.41 \% \\ 0.75 \\ \hline \end{array}$ | $-\$ 0.08$ $-\$ 6.82$ $0.41 \%$ 0.17 | -17.9\% $-31.7 \%$ |
| 315-6 | Apparel, leather \& allied products: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S. | $\begin{array}{r} \$ 0.21 \\ \$ 11.82 \\ 1.77 \% \\ 0.51 \end{array}$ | $\begin{gathered} \hline \$ 0.17 \\ \$ 9.62 \\ 1.75 \% \\ 0.52 \\ \hline \end{gathered}$ | $\begin{array}{r} \$ 0.14 \\ \$ 10.60 \\ 1.35 \% \\ 0.40 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.14 \\ \$ 10.47 \\ 1.33 \% \\ 0.39 \end{array}$ | $\begin{array}{r} \hline \$ 0.12 \\ \$ 10.01 \\ 1.16 \% \\ 0.35 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.14 \\ \$ 10.02 \\ 1.36 \% \\ 0.40 \end{array}$ | $\begin{gathered} \hline \$ 0.14 \\ \$ 9.58 \\ 1.42 \% \\ 0.42 \\ \hline \end{gathered}$ | $\begin{array}{r} \hline \$ 0.13 \\ \$ 8.97 \\ 1.44 \% \\ 0.43 \\ \hline \end{array}$ | $\begin{gathered} \$ 0.15 \\ \$ 8.74 \\ 1.73 \% \\ 0.52 \\ \hline \end{gathered}$ | $\begin{array}{r} \hline \$ 0.13 \\ \$ 8.53 \\ 1.49 \% \\ 0.46 \\ \hline \end{array}$ | $\begin{gathered} \hline \$ 0.16 \\ \$ 8.36 \\ 1.94 \% \\ 0.60 \\ \hline \end{gathered}$ | $\begin{gathered} \hline \$ 0.16 \\ \$ 8.14 \\ 2.01 \% \\ 0.62 \\ \hline \end{gathered}$ | $\begin{array}{r} \hline \$ 0.20 \\ \$ 8.56 \\ 2.30 \% \\ 0.72 \\ \hline \end{array}$ | $\begin{array}{r} -\$ 0.01 \\ -\$ 3.26 \\ 0.53 \% \\ 0.20 \\ \hline \end{array}$ | $-5.8 \%$ $-27.6 \%$ |
| 322 | Paper: Ohio U.S. Ohio as percent of U.S. Concentration ratio - Ohio::U.S | $\begin{array}{r} \hline \$ 2.37 \\ \$ 57.81 \\ 4.10 \% \\ 1.19 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 2.24 \\ \$ 60.51 \\ 3.70 \% \\ 1.10 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.13 \\ \$ 55.84 \\ 3.81 \% \\ 1.14 \end{array}$ | $\begin{array}{r} \$ 2.13 \\ \$ 53.76 \\ 3.96 \% \\ 1.16 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 1.89 \\ \$ 53.16 \\ 3.55 \% \\ 1.06 \\ \hline 1010 \end{array}$ | $\begin{array}{r} \$ 1.81 \\ \$ 53.48 \\ 3.39 \% \\ 1.01 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.03 \\ \$ 53.84 \\ 3.77 \% \\ 1.11 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 1.99 \\ \$ 54.58 \\ 3.65 \% \\ 1.10 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.97 \\ \$ 53.38 \\ 3.69 \% \\ 1.12 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.83 \\ \$ 48.89 \\ 3.74 \% \\ 1.14 \end{array}$ | $\begin{array}{r} \$ 1.94 \\ \$ 51.50 \\ 3.76 \% \\ 1.17 \end{array}$ | $\begin{array}{r} \$ 2.03 \\ \$ 52.08 \\ 3.90 \% \\ 1.22 \\ \hline \text { م1. } 70 \end{array}$ | $\begin{array}{r} \$ 2.17 \\ \$ 55.20 \\ 3.94 \% \\ 1.23 \\ \hline \end{array}$ | $\begin{array}{r} \hline-\$ 0.20 \\ -\$ 2.61 \\ -0.16 \% \\ 0.03 \end{array}$ | -8.3\% $-4.5 \%$ |
| 323 | Printing \& related support activities: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S. | $\begin{array}{r} \$ 2.07 \\ \$ 42.92 \\ 4.82 \% \\ 1.40 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.90 \\ \$ 36.94 \\ 5.15 \% \\ 1.53 \end{array}$ | $\begin{array}{r} \$ 1.81 \\ \$ 37.56 \\ 4.81 \% \\ 1.44 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.84 \\ \$ 38.59 \\ 4.76 \% \\ 1.40 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.83 \\ \$ 38.44 \\ 4.75 \% \\ 1.41 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.80 \\ \$ 39.10 \\ 4.60 \% \\ 1.37 \end{array}$ | $\begin{array}{r} \$ 1.87 \\ \$ 38.73 \\ 4.83 \% \\ 1.42 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.86 \\ \$ 37.59 \\ 4.94 \% \\ 1.49 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.94 \\ \$ 38.19 \\ 5.09 \% \\ 1.54 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.88 \\ \$ 37.87 \\ 4.95 \% \\ 1.52 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.79 \\ \$ 38.97 \\ 4.60 \% \\ 1.43 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 1.73 \\ \$ 37.69 \\ 4.58 \% \\ 1.43 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 1.62 \\ \$ 35.43 \\ 4.57 \% \\ 1.42 \\ \hline \end{array}$ | $\begin{array}{r} -\$ 0.45 \\ -\$ 7.50 \\ -0.26 \% \\ 0.02 \end{array}$ | $-21.8 \%$ $-17.5 \%$ |
| 324 | Petroleum \& coal products: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S | $\begin{array}{r} \$ 4.34 \\ \$ 271.98 \\ 1.59 \% \\ 0.46 \\ \hline \end{array}$ | $\$ 13.46$ \$253.01 5.32\% 1.59 | \$11.43 \$213.04 5.36\% 1.60 | $\begin{array}{r} \$ 10.99 \\ \$ 175.75 \\ 6.26 \% \\ 1.84 \\ \hline \end{array}$ | $\begin{array}{r} \$ 7.63 \\ \$ 159.14 \\ 4.80 \% \\ 1.43 \\ \hline \end{array}$ | $\begin{array}{r} \$ 10.98 \\ \$ 176.57 \\ 6.22 \% \\ 1.85 \\ \hline \end{array}$ | $\$ 17.04$ $\$ 196.10$ 8.69\% 2.56 | \$10.58 \$198.49 5.33\% 1.60 | $\begin{array}{r} \$ 8.33 \\ \$ 170.71 \\ 4.88 \% \\ 1.48 \\ \hline \end{array}$ | $\begin{array}{r} \$ 8.86 \\ \$ 203.07 \\ 4.36 \% \\ 1.34 \end{array}$ | $\begin{array}{r} \$ 9.96 \\ \$ 224.49 \\ 4.44 \% \\ 1.38 \end{array}$ | \$10.76 \$244.31 4.40\% | $\begin{array}{r} \$ 11.13 \\ \$ 246.12 \\ 4.52 \% \\ 1.41 \\ \hline \end{array}$ | $\begin{array}{r} \$ 6.80 \\ -\$ 25.87 \\ 2.93 \% \\ 0.95 \\ \hline \end{array}$ | $156.7 \%$ $-9.5 \%$ |
| 325 | Chemicals: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S | \$13.48 \$338.36 3.98\% 1.16 | $\begin{array}{r} \$ 13.06 \\ \$ 326.43 \\ 4.00 \% \\ 1.19 \\ \hline \end{array}$ | $\$ 13.71$ \$347.54 3.95\% 1.18 | $\begin{array}{r} \$ 13.69 \\ \$ 325.08 \\ 4.21 \% \\ 1.24 \\ \hline \end{array}$ | \$12.91 \$304.97 4.23\% 1.26 | \$10.74 \$314.22 3.42\% 1.02 | $\begin{array}{r} \$ 11.96 \\ \$ 312.95 \\ 3.82 \% \\ 1.13 \\ \hline \end{array}$ | $\begin{array}{r} \$ 13.13 \\ \$ 301.67 \\ 4.35 \% \\ 131 \end{array}$ | $\$ 15.00$ \$315.15 4.76\% | \$14.38 \$310.36 4.63\% 1.42 | \$14.88 \$312.65 4.76\% 1.48 | $\begin{array}{r} \$ 15.91 \\ \$ 322.62 \\ 4.93 \% \\ 1.54 \\ \hline \end{array}$ | $\begin{array}{r} \$ 16.22 \\ \$ 327.58 \\ 4.95 \% \\ 1.54 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.74 \\ -\$ 10.77 \\ 0.97 \% \\ 0.38 \\ \hline \end{array}$ | $\begin{gathered} \hline 20.4 \% \\ -3.2 \% \end{gathered}$ |
| 326 | Plastic \& rubber products: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S | $\begin{array}{r} \$ 4.87 \\ \$ 64.77 \\ 7.52 \% \\ 2.19 \end{array}$ | $\begin{array}{r} \$ 4.93 \\ \$ 63.79 \\ 7.73 \% \\ 2.31 \end{array}$ | $\begin{array}{r} \$ 5.10 \\ \$ 67.73 \\ 7.54 \% \\ 2.25 \end{array}$ | $\begin{array}{r} \$ 5.31 \\ \$ 66.40 \\ 7.99 \% \\ 2.35 \end{array}$ | $\begin{array}{r} \hline \$ .47 \\ \$ 67.71 \\ 8.08 \% \\ 2.41 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.34 \\ \$ 67.39 \\ 7.92 \% \\ 2.36 \end{array}$ | $\begin{array}{r} \$ 5.29 \\ \$ 67.19 \\ 7.88 \% \\ 2.32 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 5.66 \\ \$ 74.02 \\ 7.64 \% \\ 2.30 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.53 \\ \$ 75.28 \\ 7.35 \% \\ 2.23 \end{array}$ | $\begin{array}{r} \$ 5.55 \\ \$ 75.97 \\ 7.31 \% \\ 2.24 \end{array}$ | $\begin{array}{r} \hline \$ 6.19 \\ \$ 79.41 \\ 7.79 \% \\ 2.42 \end{array}$ | $\begin{array}{r} \$ 5.78 \\ \$ 78.52 \\ 7.36 \% \\ 2.29 \end{array}$ | $\begin{array}{r} \$ 5.57 \\ \$ 75.49 \\ 7.38 \% \\ 2.30 \\ \hline \end{array}$ | $\begin{array}{r} \$ 0.70 \\ \$ 10.72 \\ -0.14 \% \\ 0.11 \end{array}$ | $\begin{aligned} & \hline 14.3 \% \\ & 16.6 \% \end{aligned}$ |

Notes: ^ - a recession year for the nation as a whole; * - initial; prior years may have been revised
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).


Notes: $\wedge$ - a recession year for the nation as a whole; * - initial; prior years may have been revised
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).


Notes: ^ - a recession year for the nation as a whole; *- initial; prior years may have been revised.
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).


Notes: \# - excludes the U.S. Postal Service; ^ - a recession year for the nation as a whole; * - initial; prior years may have been revised.
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

|  |  | Dollar figures in billions, standardized on 2012 |  |  |  |  |  |  |  |  |  |  |  |  | Real Net Change |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2012 | Industry Title | 2008^ | 2009^ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020^* | Numeric Percent |  |
| Transportation and Warehousing in Constant Dollars |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11-92 | Total GDP: Ohio U.S. Ohio as percent of U.S. | $\begin{array}{r} \$ 537.1 \\ \$ 15,643.0 \\ 3.43 \% \end{array}$ | $\begin{array}{r} \$ 511.1 \\ \$ 15,236.3 \\ 3.35 \% \end{array}$ | $\begin{array}{r} \$ 524.0 \\ \$ 15,649.0 \\ 3.35 \% \end{array}$ | $\begin{array}{r} \$ 541.2 \\ \$ 15,891.5 \\ 3.41 \% \end{array}$ | $\begin{array}{r} \$ 545.7 \\ \$ 16,254.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 556.2 \\ \$ 16,553.3 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 574.2 \\ \$ 16,932.1 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 578.9 \\ \$ 17,390.3 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 583.9 \\ \$ 17,680.3 \\ 3.30 \% \end{array}$ | $\begin{array}{r} \$ 590.7 \\ \$ 18,079.1 \\ 3.27 \% \end{array}$ | \$18,606.8 <br> 3.22\% | $\begin{array}{r} \$ 611.1 \\ \$ 19,032.7 \\ 3.21 \% \end{array}$ | $\begin{array}{r} \$ 589.9 \\ \$ 18,384.7 \\ 3.21 \% \end{array}$ | $\begin{array}{r} \$ 52.8 \\ \$ 2,741.7 \\ -0.23 \% \end{array}$ | $\begin{gathered} 9.8 \% \\ 17.5 \% \end{gathered}$ |
| $\overline{48 \#}{ }^{\#}-49$ | Transportation ${ }^{\#}$ \& warehousing: Ohio | \$17.06 | \$15.30 | \$15.46 | \$16.14 | \$15.74 | \$15.68 | \$16.23 | \$17.81 | \$17.37 | \$17.86 | \$18.62 | \$19.13 | \$18.71 | \$1.65 | 9.7\% |
|  | U.S. | \$467.93 | \$438.77 | \$460.96 | \$469.97 | \$473.31 | \$479.89 | \$494.36 | \$507.12 | \$514.68 | \$537.13 | \$556.37 | \$566.13 | \$490.27 | \$22.35 | 4.8\% |
|  | Ohio as percent of U.S. | 3.65\% | 3.49\% | 3.35\% | 3.43\% | 3.33\% | 3.27\% | 3.28\% | 3.51\% | 3.37\% | 3.32\% | 3.35\% | 3.38\% | 3.82\% | 0.17\% |  |
|  | Concentration ratio - Ohio::U.S. | 1.06 | 1.04 | 1.00 | 1.01 | 0.99 | 0.97 | 0.97 | 1.06 | 1.02 | 1.02 | 1.04 | 1.05 | 1.19 | 0.13 |  |
| 481 | Air: Ohio | \$1.96 | \$1.75 | \$1.72 | \$1.87 | \$1.72 | \$1.76 | \$1.76 | \$1.87 | \$1.91 | \$2.07 | \$2.08 | \$2.12 | \$1.73 | -\$0.23 | -11.9\% |
|  | U.S. | \$80.30 | \$79.59 | \$92.29 | \$92.52 | \$88.05 | \$92.44 | \$96.10 | \$101.69 | \$110.46 | \$117.98 | \$120.58 | \$122.52 | \$59.55 | -\$20.74 | -25.8\% |
|  | Ohio as percent of U.S. | 2.44\% | 2.20\% | 1.86\% | 2.02\% | 1.95\% | 1.90\% | 1.84\% | 1.83\% | 1.73\% | 1.76\% | 1.72\% | 1.73\% | 2.90\% | 0.46\% |  |
|  | Concentration ratio - Ohio::U.S. | 0.71 | 0.66 | 0.56 | 0.59 | 0.58 | 0.57 | 0.54 | 0.55 | 0.52 | 0.54 | 0.53 | 0.54 | 0.90 | 0.19 |  |
| 482 | Rail: Ohio | \$1.45 | \$1.25 | \$1.29 | \$1.32 | \$1.38 | \$1.35 | \$1.41 | \$1.44 | \$1.29 | \$1.29 | \$1.31 | \$1.18 | \$1.02 | -\$0.43 | -29.8\% |
|  | U.S. | \$43.27 | \$38.54 | \$38.34 | \$38.62 | \$39.74 | \$39.09 | \$40.64 | \$41.02 | \$37.68 | \$38.17 | \$39.30 | \$35.75 | \$30.28 | -\$13.00 | -30.0\% |
|  | Ohio as percent of U.S. | 3.35\% | 3.25\% | 3.38\% | 3.41\% | 3.48\% | 3.45\% | 3.47\% | 3.52\% | 3.42\% | 3.39\% | 3.33\% | 3.31\% | 3.36\% | 0.01\% |  |
|  | Concentration ratio - Ohio::U.S. | 0.98 | 0.97 | 1.01 | 1.00 | 1.04 | 1.03 | 1.02 | 1.06 | 1.03 | 1.04 | 1.04 | 1.03 | 1.05 | 0.07 |  |
| 483 | Water: Ohio | \$0.11 | \$0.11 | \$0.10 | \$0.09 | \$0.09 | \$0.12 | \$0.10 | \$0.09 | \$0.08 | \$0.08 | \$0.09 | \$0.10 | \$0.11 | \$0.00 | 0.2\% |
|  | U.S. | \$11.76 | \$14.78 | \$12.13 | \$12.89 | \$13.17 | \$16.61 | \$15.10 | \$12.50 | \$10.76 | \$9.33 | \$9.37 | \$9.19 | \$9.66 | -\$2.10 | -17.8\% |
|  | Ohio as percent of U.S. | 0.90\% | 0.72\% | 0.79\% | 0.72\% | 0.70\% | 0.69\% | 0.67\% | 0.70\% | 0.79\% | 0.87\% | 0.98\% | 1.06\% | 1.10\% | 0.20\% |  |
|  | Concentration ratio - Ohio::U.S. | 0.26 | 0.22 | 0.24 | 0.21 | 0.21 | 0.21 | 0.20 | 0.21 | 0.24 | 0.27 | 0.30 | 0.33 | 0.34 | 0.08 |  |
| 484 | Truck: Ohio | \$6.26 | \$5.51 | \$5.88 | \$6.12 | \$6.17 | \$6.04 | \$6.27 | \$6.30 | \$6.24 | \$6.62 | \$6.45 | \$6.39 | \$6.22 | -\$0.04 | -0.6\% |
|  | U.S. | \$125.77 | \$114.69 | \$121.60 | \$127.34 | \$128.40 | \$127.92 | \$132.41 | \$131.17 | \$129.21 | \$136.71 | \$136.24 | \$135.59 | \$130.94 | \$5.18 | 4.1\% |
|  | Ohio as percent of U.S. | 4.97\% | 4.80\% | 4.83\% | 4.81\% | 4.80\% | 4.72\% | 4.74\% | 4.80\% | 4.83\% | 4.84\% | 4.73\% | 4.71\% | 4.75\% | -0.23\% |  |
|  | Concentration ratio - Ohio::U.S. | 1.45 | 1.43 | 1.44 | 1.41 | 1.43 | 1.41 | 1.40 | 1.44 | 1.46 | 1.48 | 1.47 | 1.47 | 1.48 | 0.03 |  |
| 485 | Transit \& ground passengers: Ohio | \$0.53 | \$0.50 | \$0.49 | \$0.53 | \$0.55 | \$0.54 | \$0.56 | \$0.59 | \$0.56 | \$0.58 | \$0.58 | \$0.59 | \$0.43 | -\$0.10 | -18.7\% |
|  | U.S. | \$34.84 | \$32.54 | \$33.25 | \$34.66 | \$36.46 | \$36.53 | \$38.99 | \$38.84 | \$38.08 | \$40.60 | \$43.64 | \$49.72 | \$35.89 | \$1.05 | 3.0\% |
|  | Ohio as percent of U.S. | 1.51\% | 1.54\% | 1.47\% | 1.53\% | 1.51\% | 1.49\% | 1.45\% | 1.51\% | 1.47\% | 1.43\% | 1.33\% | 1.19\% | 1.19\% | -0.32\% |  |
|  | Concentration ratio - Ohio::U.S. | 0.44 | 0.46 | 0.44 | 0.45 | 0.45 | 0.44 | 0.43 | 0.45 | 0.44 | 0.44 | 0.41 | 0.37 | 0.37 | -0.07 |  |
| 486 | Pipelines: Ohio | \$0.35 | \$0.46 | \$0.62 | \$0.83 | \$0.44 | \$0.36 | \$0.52 | \$1.58 | \$1.22 | \$1.08 | \$1.22 | \$1.25 | \$1.18 | \$0.83 | 238.6\% |
|  | U.S. | \$19.92 | \$17.69 | \$21.80 | \$22.10 | \$25.33 | \$25.00 | \$27.55 | \$33.68 | \$34.08 | \$34.91 | \$37.10 | \$33.11 | \$30.11 | \$10.20 | 51.2\% |
|  | Ohio as percent of U.S. | 1.75\% | 2.59\% | 2.85\% | 3.75\% | 1.75\% | 1.44\% | 1.87\% | 4.68\% | 3.59\% | 3.09\% | 3.28\% | 3.76\% | 3.92\% | 2.17\% |  |
|  | Concentration ratio - Ohio::U.S. | 0.51 | 0.77 | 0.85 | 1.10 | 0.52 | 0.43 | 0.55 | 1.41 | 1.09 | 0.94 | 1.02 | 1.17 | 1.22 | 0.71 |  |
| $\begin{gathered} \hline 487-8, \\ 492 \end{gathered}$ | Other modes \& support activities: Ohio | \$4.22 | \$3.65 | \$3.15 | \$3.07 | \$2.88 | \$2.85 | \$2.89 | \$3.15 | \$3.13 | \$3.24 | \$3.52 | \$3.79 | \$3.94 | -\$0.28 | -6.6\% |
|  | U.S. | \$114.30 | \$101.54 | \$101.34 | \$98.95 | \$94.94 | \$92.70 | \$91.71 | \$93.75 | \$94.82 | \$97.26 | \$103.55 | \$107.69 | \$111.55 | -\$2.74 | -2.4\% |
|  | Ohio as percent of U.S. | 3.69\% | 3.60\% | 3.11\% | 3.10\% | 3.04\% | 3.08\% | 3.15\% | 3.36\% | 3.31\% | 3.33\% | 3.40\% | 3.52\% | 3.53\% | -0.16\% |  |
|  | Concentration ratio - Ohio::U.S. | 1.07 | 1.07 | 0.93 | 0.91 | 0.90 | 0.92 | 0.93 | 1.01 | 1.00 | 1.02 | 1.06 | 1.10 | 1.10 | 0.03 |  |
| 493 | Warehousing \& storage: Ohio | \$2.27 | \$2.12 | \$2.23 | \$2.32 | \$2.50 | \$2.67 | \$2.72 | \$2.77 | \$2.92 | \$2.86 | \$3.41 | \$3.77 | \$4.18 | \$1.91 | 83.8\% |
|  | U.S. | \$40.29 | \$39.53 | \$41.05 | \$43.24 | \$47.22 | \$49.81 | \$52.15 | \$55.12 | \$60.86 | \$63.85 | \$68.80 | \$76.53 | \$81.31 | \$41.02 | 101.8\% |
|  | Ohio as percent of U.S. | 5.64\% | 5.37\% | 5.44\% | 5.36\% | 5.30\% | 5.36\% | 5.21\% | 5.03\% | 4.80\% | 4.48\% | 4.95\% | 4.93\% | 5.14\% | -0.50\% |  |
|  | Concentration ratio - Ohio::U.S. | 1.64 | 1.60 | 1.62 | 1.58 | 1.58 | 1.60 | 1.54 | 1.51 | 1.45 | 1.37 | 1.54 | 1.53 | 1.60 | -0.04 |  |

Notes: \# - excludes the U.S. Postal Service; ^ - a recession year for the nation as a whole; * - initial; prior years may have been revised.
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

| 2012 |  | Dollar figures in Billions |  |  |  |  |  |  |  |  |  |  |  |  | Nominal Net Change |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2008^ | 2009^ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020^* |  |
| Information in Current Dollars |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11-92 | Total GDP: Ohio U.S. Ohio as percent of U.S. | $\begin{array}{r} \$ 496.9 \\ \$ 14,769.9 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 482.3 \\ \$ 14,478.1 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 500.5 \\ \$ 15,049.0 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 528.2 \\ \$ 15,599.7 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 545.7 \\ \$ 16,254.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 566.5 \\ \$ 16,843.2 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 595.6 \\ \$ 17,550.7 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 611.0 \\ \$ 18,206.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 623.3 \\ \$ 18,695.1 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 641.7 \\ \$ 19,479.6 \\ 3.29 \% \end{array}$ | $\begin{array}{r} \$ 667.0 \\ \$ 20,527.2 \\ 3.25 \% \end{array}$ | $\begin{array}{r} \$ 693.2 \\ \$ 21,372.6 \\ 3.24 \% \end{array}$ | $\begin{array}{r} \$ 677.6 \\ \$ 20,893.7 \\ 3.24 \% \end{array}$ | -0.12\% |
| 51 | Information: Ohio | $\$ 15.27$ $\$ 74382$ | $\$ 17.27$ $\$ 721.41$ | $\$ 19.69$ $\$ 75493$ | \$21.46 | \$20.41 | \$20.55 | $\$ 17.35$ $\$ 844.37$ | \$16.94 | $\$ 16.80$ $\$ 970$ | $\$ 16.81$ $\$ 1.04 .69$ | \$17.13 | $\$ 17.58$ $\$ 1.134 .49$ | $\begin{array}{r} \$ 17.12 \\ 1.167 .92 \end{array}$ |  |
|  | Ohio as percent of U.S. | 2.05\% | 2.39\% | 2.61\% | 2.81\% | 2.68\% | 2.47\% | 2.05\% | 1.87\% | 1.73\% | 1.67\% | 1.61\% | 1.55\% | 1.47\% | -0.59\% |
|  | Concentration ratio - Ohio::U.S. | 0.61 | 0.72 | 0.78 | 0.83 | 0.80 | 0.73 | 0.61 | 0.56 | 0.52 | 0.51 | 0.50 | 0.48 | 0.45 | -0.16 |
| 511 | Publishing (inc. sofware, exc. Internet): Ohio | \$4.91 | \$4.80 | \$5.11 | \$5.24 | \$5.22 | \$5.43 | \$5.15 | \$5.23 | \$5.31 | \$5.26 | \$5.38 | \$5.21 | \$5.26 |  |
|  | U.S. | \$189.23 | \$178.34 | \$187.14 | \$195.30 | \$202.24 | \$210.82 | \$217.78 | \$223.74 | \$234.52 | \$252.43 | \$274.16 | \$293.06 | \$319.99 |  |
|  | Ohio as percent of U.S. | 2.60\% | 2.69\% | 2.73\% | 2.68\% | 2.58\% | 2.58\% | 2.36\% | 2.34\% | 2.26\% | 2.08\% | 1.96\% | 1.78\% | 1.64\% | -0.95\% |
|  | Concentration ratio - Ohio::U.S. | 0.77 | 0.81 | 0.82 | 0.79 | 0.77 | 0.77 | 0.70 | 0.70 | 0.68 | 0.63 | 0.60 | 0.55 | 0.51 | -0.27 |
| 512 | Motion pictures \& sound recordings: Ohio | \$0.39 | \$0.42 | \$0.38 | \$0.37 | \$0.38 | \$0.42 | \$0.48 | \$0.49 | \$0.48 | \$0.50 | \$0.45 | \$0.49 | \$0.26 |  |
|  | U.S. | \$79.79 | \$82.20 | \$91.27 | \$85.13 | \$82.79 | \$83.03 | \$82.33 | \$87.64 | \$93.82 | \$94.31 | \$87.21 | \$86.94 | \$70.14 |  |
|  | Ohio as percent of U.S. | 0.49\% | 0.51\% | 0.42\% | 0.43\% | 0.46\% | 0.51\% | 0.58\% | 0.56\% | 0.51\% | 0.53\% | 0.52\% | 0.57\% | 0.37\% | -0.12\% |
|  | Concentration ratio - Ohio::U.S. | 0.14 | 0.15 | 0.13 | 0.13 | 0.14 | 0.15 | 0.17 | 0.17 | 0.15 | 0.16 | 0.16 | 0.17 | 0.11 | -0.03 |
| $\begin{gathered} \overline{515,} \\ 517 \end{gathered}$ | Broadcasting \& telecommunications: Ohio | \$8.23 | \$10.26 | \$12.17 | \$13.59 | \$12.68 | \$12.25 | \$9.23 | \$8.71 | \$8.36 | \$8.44 | \$8.43 | \$8.55 | \$8.20 |  |
|  | U.S. | \$391.94 | \$374.61 | \$375.50 | \$367.80 | \$372.35 | \$405.85 | \$394.84 | \$426.62 | \$446.69 | \$445.36 | \$460.21 | \$469.22 | \$459.47 |  |
|  | Ohio as percent of U.S. | 2.10\% | 2.74\% | 3.24\% | 3.69\% | 3.40\% | 3.02\% | 2.34\% | 2.04\% | 1.87\% | 1.89\% | 1.83\% | 1.82\% | 1.78\% | -0.32\% |
|  | Concentration ratio - Ohio::U.S. | 0.62 | 0.82 | 0.97 | 1.09 | 1.01 | 0.90 | 0.69 | 0.61 | 0.56 | 0.58 | 0.56 | 0.56 | 0.55 | -0.07 |
| $\begin{array}{r} 518, \\ 519 \end{array}$ | Data prcsng., hosting, other info. (inc. Internet): Ohio | \$1.74 | \$1.78 | \$2.03 | \$2.26 | \$2.13 | \$2.44 | \$2.50 | \$2.51 | \$2.65 | \$2.61 | \$2.86 | \$3.33 | \$3.40 |  |
|  | U.S. | \$82.86 | \$86.28 | \$101.02 | \$114.78 | \$105.33 | \$131.67 | \$149.43 | \$169.81 | \$195.24 | \$212.59 | \$243.01 | \$285.26 | \$318.32 |  |
|  | Ohio as percent of U.S. | 2.10\% | 2.07\% | 2.01\% | 1.97\% | 2.02\% | 1.86\% | 1.67\% | 1.48\% | 1.36\% | 1.23\% | 1.18\% | 1.17\% | 1.07\% | -1.03\% |
|  | Concentration ratio - Ohio::U.S. | 0.62 | 0.62 | 0.60 | 0.58 | 0.60 | 0.55 | 0.49 | 0.44 | 0.41 | 0.37 | 0.36 | 0.36 | 0.33 | -0.29 |

Notes: ^ - a recession year for the nation as a whole; * - initial; prior years may have been revised.
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/21).

|  |  | Dollar figures in billions, standardized on 2012 |  |  |  |  |  |  |  |  |  |  |  |  | Real Net Change |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2012 |  | 2008^ | 2009^ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020^* | Numeric Percent |  |
| Information in Constant Dollars |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11-92 | Total GDP: Ohio U.S. Ohio as percent of U.S. | $\begin{array}{r} \$ 537.1 \\ \$ 15,643.0 \\ 3.43 \% \end{array}$ | $\begin{array}{r} \$ 511.1 \\ \$ 15,236.3 \\ 3.35 \% \end{array}$ | $\begin{array}{r} \$ 524.0 \\ \$ 15,649.0 \\ 3.35 \% \end{array}$ | $\begin{array}{r} \$ 541.2 \\ \$ 15,891.5 \\ 3.41 \% \end{array}$ | $\begin{array}{r} \$ 545.7 \\ \$ 16,254.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 556.2 \\ \$ 16,553.3 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 574.2 \\ \$ 16,932.1 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 578.9 \\ \$ 17,390.3 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 583.9 \\ \$ 17,680.3 \\ 3.30 \% \end{array}$ | $\begin{array}{r} \$ 590.7 \\ \$ 18,079.1 \\ 3.27 \% \end{array}$ | $\begin{array}{r} \$ 598.9 \\ \$ 18,606.8 \\ 3.22 \% \end{array}$ | $\begin{array}{r} \$ 611.1 \\ \$ 19,032.7 \\ 3.21 \% \end{array}$ | $\begin{array}{r} \$ 589.9 \\ \$ 18,384.7 \\ 3.21 \% \end{array}$ | $\begin{array}{r} \$ 52.8 \\ \$ 2,741.7 \\ -0.23 \% \end{array}$ | $\begin{gathered} 9.8 \% \\ 17.5 \% \end{gathered}$ |
| 51 | Information: Ohio | \$15.00 | \$16.89 | \$19.55 | \$21.44 | \$20.41 | \$20.48 | \$17.45 | \$17.52 | \$17.76 | \$18.30 | \$18.97 | \$19.54 | \$19.14 | \$4.14 | 27.6\% |
|  | U.S. | \$729.77 | \$709.61 | \$751.82 | \$764.25 | \$762.71 | \$830.34 | \$851.06 | \$939.25 | \$1,022.04 | \$1,087.20 | \$1,171.41 | \$1,252.86 | \$1,296.53 | \$566.76 | 77.7\% |
|  | Ohio as percent of U.S. | 2.05\% | 2.38\% | 2.60\% | 2.81\% | 2.68\% | 2.47\% | 2.05\% | 1.86\% | 1.74\% | 1.68\% | 1.62\% | 1.56\% | 1.48\% | -0.58\% |  |
|  | Concentration ratio - Ohio::U.S. | 0.60 | 0.71 | 0.78 | 0.82 | 0.80 | 0.73 | 0.60 | 0.56 | 0.53 | 0.51 | 0.50 | 0.49 | 0.46 | -0.14 |  |
| 511 | Publishing (inc. sofware, exc. Internet): Ohio | \$4.98 | \$4.81 | \$5.17 | \$5.27 | \$5.22 | \$5.37 | \$5.06 | \$5.22 | \$5.40 | \$5.45 | \$5.70 | \$5.54 | \$5.61 | \$0.63 | 12.6\% |
|  | U.S. | \$191.97 | \$178.70 | \$189.40 | \$196.41 | \$202.24 | \$208.28 | \$214.18 | \$223.48 | \$238.30 | \$261.47 | \$290.35 | \$311.76 | \$341.55 | \$149.59 | 77.9\% |
|  | Ohio as percent of U.S. | 2.60\% | 2.69\% | 2.73\% | 2.68\% | 2.58\% | 2.58\% | 2.36\% | 2.34\% | 2.26\% | 2.08\% | 1.96\% | 1.78\% | 1.64\% | -0.95\% |  |
|  | Concentration ratio - Ohio:: U.S. | 0.76 | 0.80 | 0.82 | 0.79 | 0.77 | 0.77 | 0.70 | 0.70 | 0.69 | 0.64 | 0.61 | 0.55 | 0.51 | -0.24 |  |
| 512 | Motion pictures \& sound recordings: Ohio | \$0.37 | \$0.43 | \$0.39 | \$0.37 | \$0.38 | \$0.43 | \$0.49 | \$0.51 | \$0.49 | \$0.51 | \$0.46 | \$0.51 | \$0.27 | -\$0.10 | -26.3\% |
|  | U.S. | \$75.97 | \$83.88 | \$92.48 | \$86.99 | \$82.79 | \$84.56 | \$84.73 | \$91.44 | \$94.74 | \$95.52 | \$87.79 | \$89.45 | \$74.15 | -\$1.83 | -2.4\% |
|  | Ohio as percent of U.S. | 0.49\% | 0.51\% | 0.42\% | 0.43\% | 0.46\% | 0.51\% | 0.58\% | 0.56\% | 0.51\% | 0.53\% | 0.52\% | 0.57\% | 0.37\% | -0.12\% |  |
|  | Concentration ratio - Ohio::U.S. | 0.14 | 0.15 | 0.12 | 0.13 | 0.14 | 0.15 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.18 | 0.11 | -0.03 |  |
| $\begin{gathered} \overline{515,} \\ 517 \end{gathered}$ | Broadcasting \& telecommunications: Ohio | \$7.96 | \$9.92 | \$11.98 | \$13.53 | \$12.68 | \$12.21 | \$9.34 | \$9.20 | \$9.08 | \$9.55 | \$9.68 | \$9.85 | \$9.58 | \$1.62 | 20.4\% |
|  | U.S. | \$378.96 | \$362.04 | \$369.75 | \$366.38 | \$372.35 | \$404.59 | \$399.58 | \$450.47 | \$485.04 | \$504.10 | \$528.39 | \$540.41 | \$536.91 | \$157.95 | 41.7\% |
|  | Ohio as percent of U.S. | 2.10\% | 2.74\% | 3.24\% | 3.69\% | 3.40\% | 3.02\% | 2.34\% | 2.04\% | 1.87\% | 1.89\% | 1.83\% | 1.82\% | 1.78\% | -0.32\% |  |
|  | Concentration ratio - Ohio::U.S. | 0.61 | 0.82 | 0.97 | 1.08 | 1.01 | 0.90 | 0.69 | 0.61 | 0.57 | 0.58 | 0.57 | 0.57 | 0.56 | -0.06 |  |
| $\begin{gathered} \overline{518,} \\ 519 \end{gathered}$ | Data prcsng., hosting, other info. (inc. Internet): Ohio | \$1.73 | \$1.75 | \$2.02 | \$2.26 | \$2.13 | \$2.47 | \$2.55 | \$2.58 | \$2.78 | \$2.78 | \$3.13 | \$3.63 | \$3.66 | \$1.93 | 111.1\% |
|  | U.S. | \$82.70 | \$84.79 | \$100.27 | \$114.50 | \$105.33 | \$133.05 | \$152.87 | \$174.71 | \$204.96 | \$226.63 | \$265.46 | \$310.89 | \$342.47 | \$259.76 | 314.1\% |
|  | Ohio as percent of U.S. | 2.10\% | 2.07\% | 2.01\% | 1.97\% | 2.02\% | 1.86\% | 1.67\% | 1.48\% | 1.36\% | 1.23\% | 1.18\% | 1.17\% | 1.07\% | -1.03\% |  |
|  | Concentration ratio - Ohio::U.S. | 0.61 | 0.62 | 0.60 | 0.58 | 0.60 | 0.55 | 0.49 | 0.44 | 0.41 | 0.38 | 0.37 | 0.36 | 0.33 | -0.28 |  |

Notes: ^ - a recession year for the nation as a whole; * - initial; prior years may have been revised
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

|  |  | Dollar figures in Billions |  |  |  |  |  |  |  |  |  |  |  |  | Nominal Net Change |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 2012 \\ & \text { NAICS } \end{aligned}$ | Industry Title | 2008^ | 2009^ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020^* |  |
| Finance-Insurance-Real Estate in Current Dollars |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11-92 | Total GDP: Ohio U.S. Ohio as percent of U.S. | $\begin{array}{r} \$ 496.9 \\ \$ 14,769.9 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 482.3 \\ \$ 14,478.1 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 500.5 \\ \$ 15,049.0 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 528.2 \\ \$ 15,599.7 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 545.7 \\ \$ 16,254.0 \\ 3.36 \% \end{array}$ | $\$ 566.5$ $\$ 16,843.2$ 3 <br> 3.36\% | $\begin{array}{r} \$ 595.6 \\ \$ 17,550.7 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 611.0 \\ \$ 18,206.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 623.3 \\ \$ 18,695.1 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 641.7 \\ \$ 19,479.6 \\ 3.29 \% \end{array}$ | $\begin{array}{r} \$ 667.0 \\ \$ 20,527.2 \\ 3.25 \% \end{array}$ | $\begin{array}{r} \$ 693.2 \\ \$ 21,372.6 \\ 3.24 \% \end{array}$ | $\begin{array}{r} \$ 677.6 \\ \$ 20,893.7 \\ 3.24 \% \end{array}$ | -0.12\% |
| 52 | Finance \& insurance: Ohio U.S. | $\$ 38.24$ $\$ 887.29$ | $\$ 38.19$ $\$ 980.96$ | $\$ 37.87$ $\$ 1,006.22$ | $\$ 38.98$ $\$ 1,033.53$ | $\$ 41.74$ $\$ 1,172.45$ | $\$ 43.31$ $\$ 1,156.45$ | $\$ 50.84$ $\$ 1,295.96$ | $\$ 54.88$ $\$ 1,384.46$ | $\$ 58.90$ $\$ 1,474.98$ | $\$ 58.74$ $\$ 1,512.08$ | $\$ 67.42$ $\$ 1,626.73$ | $\$ 73.20$ $\$ 1.682 .86$ | $\$ 76.44$ $\$ 1,787.75$ |  |
|  | Ohio as percent of U.S. | 4.31\% | 3.89\% | 3.76\% | 3.77\% | 3.56\% | 3.74\% | 3.92\% | 3.96\% | 3.99\% | 3.88\% | 4.14\% | 4.35\% | 4.28\% | -0.03\% |
|  | Concentration ratio - Ohio::U.S. | 1.28 | 1.17 | 1.13 | 1.11 | 1.06 | 1.11 | 1.16 | 1.18 | 1.20 | 1.18 | 1.28 | 1.34 | 1.32 | 0.04 |
| 521-2 | Federal reserve/credit intermediation: Ohio | \$22.43 | \$20.84 | \$19.47 | \$20.28 | \$21.03 | \$23.12 | \$24.64 | \$25.52 | \$27.62 | \$27.73 | \$32.19 | \$36.93 | \$41.29 |  |
|  | U.S. | \$415.44 | \$408.96 | \$419.52 | \$461.54 | \$519.69 | \$508.28 | \$559.85 | \$581.55 | \$617.21 | \$641.58 | \$693.60 | \$723.28 | \$780.96 |  |
|  | Ohio as percent of U.S. | 5.40\% | 5.10\% | 4.64\% | 4.39\% | 4.05\% | 4.55\% | 4.40\% | 4.39\% | 4.48\% | 4.32\% | 4.64\% | 5.11\% | 5.29\% | -0.11\% |
|  | Concentration ratio - Ohio::U.S. | 1.60 | 1.53 | 1.40 | 1.30 | 1.21 | 1.35 | 1.30 | 1.31 | 1.34 | 1.31 | 1.43 | 1.57 | 1.63 | 0.03 |
| 523 | Securities, etc.: Ohio | \$1.29 | \$2.35 | \$2.44 | \$2.31 | \$3.08 | \$3.58 | \$3.13 | \$3.20 | \$3.77 | \$4.04 | \$4.60 | \$4.86 | \$4.96 |  |
|  | U.S. | \$99.95 | \$190.39 | \$196.72 | \$173.42 | \$232.82 | \$249.49 | \$228.10 | \$230.95 | \$267.43 | \$297.10 | \$314.14 | \$329.79 | \$341.38 |  |
|  | Ohio as percent of U.S. | 1.29\% | 1.23\% | 1.24\% | 1.33\% | 1.32\% | 1.43\% | 1.37\% | 1.38\% | 1.41\% | 1.36\% | 1.47\% | 1.47\% | 1.45\% | 0.16\% |
|  | Concentration ratio - Ohio:: U.S. | 0.38 | 0.37 | 0.37 | 0.39 | 0.39 | 0.43 | 0.40 | 0.41 | 0.42 | 0.41 | 0.45 | 0.45 | 0.45 | 0.06 |
| 524 | Insurance carriers \& related activities: Ohio | \$14.25 | \$14.85 | \$15.73 | \$16.18 | \$17.32 | \$16.35 | \$22.70 | \$25.91 | \$27.25 | \$26.75 | \$30.41 | \$31.24 | \$29.98 |  |
|  | U.S. | \$349.44 | \$365.72 | \$373.41 | \$385.44 | \$406.91 | \$386.07 | \$487.37 | \$554.57 | \$571.60 | \$550.74 | \$590.68 | \$604.48 | \$640.30 |  |
|  | Ohio as percent of U.S. | 4.08\% | 4.06\% | 4.21\% | 4.20\% | 4.26\% | 4.24\% | 4.66\% | 4.67\% | 4.77\% | 4.86\% | 5.15\% | 5.17\% | 4.68\% | 0.60\% |
|  | Concentration ratio - Ohio::U.S. | 1.21 | 1.22 | 1.27 | 1.24 | 1.27 | 1.26 | 1.37 | 1.39 | 1.43 | 1.47 | 1.58 | 1.59 | 1.44 | 0.23 |
| 525 | Funds-trusts-other financial vehicles: Ohio | \$0.26 | \$0.15 | \$0.23 | \$0.20 | \$0.32 | \$0.26 | \$0.37 | \$0.25 | \$0.26 | \$0.21 | \$0.21 | \$0.17 | \$0.22 |  |
|  | U.S. | \$22.46 | \$15.90 | \$16.58 | \$13.12 | \$13.03 | \$12.62 | \$20.64 | \$17.39 | \$18.74 | \$22.66 | \$28.31 | \$25.31 | \$25.11 |  |
|  | Ohio as percent of U.S. | 1.15\% | 0.97\% | 1.37\% | 1.55\% | 2.43\% | 2.05\% | 1.78\% | 1.42\% | 1.40\% | 0.95\% | 0.75\% | 0.69\% | 0.86\% | -0.30\% |
|  | Concentration ratio - Ohio::U.S. | 0.34 | 0.29 | 0.41 | 0.46 | 0.73 | 0.61 | 0.52 | 0.42 | 0.42 | 0.29 | 0.23 | 0.21 | 0.26 | -0.08 |
| 53 | Real estate, rental \& leasing: Ohio | \$59.51 | \$58.93 | \$60.00 | \$62.02 | \$64.19 | \$66.58 | \$68.10 | \$69.10 | \$71.59 | \$73.59 | \$75.49 | \$78.97 | \$77.31 |  |
|  | U.S. | \$1,928.85 | \$1,922.18 | \$1,984.21 | \$2,047.26 | \$2,116.80 | \$2,205.51 | \$2,264.72 | \$2,329.30 | \$2,408.25 | \$2,508.16 | \$2,631.03 | \$2,768.65 | \$2,804.36 |  |
|  | Ohio as percent of U.S. | 3.09\% | 3.07\% | 3.02\% | 3.03\% | 3.03\% | 3.02\% | 3.01\% | 2.97\% | 2.97\% | 2.93\% | 2.87\% | 2.85\% | 2.76\% | -0.33\% |
|  | Concentration ratio - Ohio::U.S. | 0.92 | 0.92 | 0.91 | 0.89 | 0.90 | 0.90 | 0.89 | 0.88 | 0.89 | 0.89 | 0.88 | 0.88 | 0.85 | -0.07 |
| 531 | Real estate: Ohio | \$53.35 | \$53.28 | \$55.20 | \$57.79 | \$60.06 | \$62.09 | \$63.24 | \$63.64 | \$65.37 | \$67.08 | \$69.52 | \$72.77 | \$71.96 |  |
|  | U.S. | \$1,750.21 | \$1,759.28 | \$1,823.91 | \$1,883.91 | \$1,943.04 | \$2,022.38 | \$2,073.85 | \$2,123.13 | \$2,187.62 | \$2,279.52 | \$2,386.67 | \$2,500.43 | \$2,563.06 |  |
|  | Ohio as percent of U.S. | 3.05\% | 3.03\% | 3.03\% | 3.07\% | 3.09\% | 3.07\% | 3.05\% | 3.00\% | 2.99\% | 2.94\% | 2.91\% | 2.91\% | 2.81\% | -0.24\% |
|  | Concentration ratio - Ohio:: U.S. | 0.91 | 0.91 | 0.91 | 0.91 | 0.92 | 0.91 | 0.90 | 0.89 | 0.90 | 0.89 | 0.90 | 0.90 | 0.87 | -0.04 |
| 532-3 | Rental \& leasing (inc. intangible assets): Ohio | \$6.16 | \$5.65 | \$4.80 | \$4.23 | \$4.13 | \$4.49 | \$4.86 | \$5.46 | \$6.22 | \$6.51 | \$5.97 | \$6.20 | \$5.35 |  |
|  | U.S. | \$178.64 | \$162.90 | \$160.30 | \$163.35 | \$173.76 | \$183.14 | \$190.86 | \$206.16 | \$220.63 | \$228.65 | \$244.36 | \$268.22 | \$241.30 |  |
|  | Ohio as percent of U.S. | 3.45\% | 3.47\% | 3.00\% | 2.59\% | 2.37\% | 2.45\% | 2.55\% | 2.65\% | 2.82\% | 2.85\% | 2.44\% | 2.31\% | 2.22\% | -1.23\% |
|  | Concentration ratio - Ohio::U.S. | 1.03 | 1.04 | 0.90 | 0.76 | 0.71 | 0.73 | 0.75 | 0.79 | 0.85 | 0.86 | 0.75 | 0.71 | 0.68 | -0.34 |

Notes: ^ - a recession year for the nation as a whole; * - initial; prior years may have been revised
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

|  |  | Dollar figures in billions, standardized on 2012 |  |  |  |  |  |  |  |  |  |  |  |  | Real Net Change |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2012 | Industry Title | 2008^ | 2009^ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020^* | Numeric Percent |  |
| Finance-Insurance-Real Estate in Constant Dollars |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11-92 | Total GDP: Ohio U.S. Ohio as percent of U.S. | $\begin{array}{r} \$ 537.1 \\ \$ 15,643.0 \\ 3.43 \% \end{array}$ | $\begin{array}{r} \$ 511.1 \\ \$ 15,236.3 \\ 3.35 \% \end{array}$ | $\begin{array}{r} \$ 524.0 \\ \$ 15,649.0 \\ 3.35 \% \end{array}$ | $\begin{array}{r} \$ 541.2 \\ \$ 15,891.5 \\ 3.41 \% \end{array}$ | $\begin{array}{r} \$ 545.7 \\ \$ 16,254.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 556.2 \\ \$ 16,553.3 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 574.2 \\ \$ 16,932.1 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 578.9 \\ \$ 17,390.3 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 583.9 \\ \$ 17,680.3 \\ 3.30 \% \end{array}$ | $\begin{array}{r} \$ 590.7 \\ \$ 18,079.1 \\ 3.27 \% \end{array}$ | \$18,606.8 <br> 3.22\% | $\begin{array}{r} \$ 611.1 \\ \$ 19,032.7 \\ 3.21 \% \end{array}$ | $\begin{array}{r} \$ 589.9 \\ \$ 18,384.7 \\ 3.21 \% \end{array}$ | $\begin{array}{r} \$ 52.8 \\ \$ 2,741.7 \\ -0.23 \% \end{array}$ | $\begin{gathered} 9.8 \% \\ 17.5 \% \end{gathered}$ |
| 52 | Finance \& insurance: Ohio | \$37.76 | \$42.63 | \$39.65 | \$40.36 | \$41.74 | \$41.70 | \$46.31 | \$48.50 | \$49.52 | \$47.47 | \$50.65 | \$54.18 | \$55.05 | \$17.29 | 45.8\% |
|  | U.S. | \$900.78 | \$1,111.26 | \$1,070.99 | \$1,075.40 | \$1,172.45 | \$1,107.52 | \$1,165.14 | \$1,205.74 | \$1,224.31 | \$1,203.80 | \$1,203.12 | \$1,223.08 | \$1,259.55 | \$358.77 | 39.8\% |
|  | Ohio as percent of U.S. | 4.19\% | 3.84\% | 3.70\% | 3.75\% | 3.56\% | 3.77\% | 3.98\% | 4.02\% | 4.05\% | 3.94\% | 4.21\% | 4.43\% | 4.37\% | 0.18\% |  |
|  | Concentration ratio - Ohio::U.S. | 1.22 | 1.14 | 1.11 | 1.10 | 1.06 | 1.12 | 1.17 | 1.21 | 1.22 | 1.21 | 1.31 | 1.38 | 1.36 | 0.14 |  |
| 521-2 | Federal reserve/credit intermediation: Ohio | \$20.55 | \$23.90 | \$20.25 | \$21.19 | \$21.03 | \$21.91 | \$21.61 | \$21.37 | \$21.04 | \$19.26 | \$20.02 | \$22.12 | \$24.58 | \$4.03 | 19.6\% |
|  | U.S. | \$380.68 | \$468.85 | \$436.36 | \$482.26 | \$519.69 | \$481.74 | \$491.00 | \$486.98 | \$470.21 | \$445.68 | \$431.42 | \$433.24 | \$464.97 | \$84.29 | 22.1\% |
|  | Ohio as percent of U.S. | 5.40\% | 5.10\% | 4.64\% | 4.39\% | 4.05\% | 4.55\% | 4.40\% | 4.39\% | 4.48\% | 4.32\% | 4.64\% | 5.11\% | 5.29\% | -0.11\% |  |
|  | Concentration ratio - Ohio:: U.S. | 1.57 | 1.52 | 1.39 | 1.29 | 1.21 | 1.35 | 1.30 | 1.32 | 1.35 | 1.32 | 1.44 | 1.59 | 1.65 | 0.08 |  |
| 523 | Securities, etc.: Ohio | \$1.40 | \$3.02 | \$2.91 | \$2.46 | \$3.08 | \$3.28 | \$2.53 | \$2.51 | \$2.97 | \$2.99 | \$3.19 | \$3.30 | \$3.21 | \$1.80 | 128.6\% |
|  | U.S. | \$108.40 | \$244.88 | \$234.08 | \$184.41 | \$232.82 | \$228.56 | \$184.41 | \$181.52 | \$210.68 | \$219.61 | \$217.83 | \$224.27 | \$220.50 | \$112.10 | 103.4\% |
|  | Ohio as percent of U.S. | 1.29\% | 1.23\% | 1.24\% | 1.33\% | 1.32\% | 1.43\% | 1.37\% | 1.38\% | 1.41\% | 1.36\% | 1.47\% | 1.47\% | 1.45\% | 0.16\% |  |
|  | Concentration ratio - Ohio::U.S. | 0.38 | 0.37 | 0.37 | 0.39 | 0.39 | 0.43 | 0.40 | 0.42 | 0.43 | 0.42 | 0.46 | 0.46 | 0.45 | 0.08 |  |
| 524 | Insurance carriers \& related activities: Ohio | \$15.52 | \$15.65 | \$16.26 | \$16.43 | \$17.32 | \$16.16 | \$22.01 | \$24.83 | \$25.89 | \$25.81 | \$28.34 | \$29.46 | \$26.87 | \$11.35 | 73.2\% |
|  | U.S. | \$380.36 | \$385.42 | \$385.84 | \$391.23 | \$406.91 | \$381.45 | \$472.53 | \$531.36 | \$543.15 | \$531.50 | \$550.34 | \$569.90 | \$573.87 | \$193.51 | 50.9\% |
|  | Ohio as percent of U.S. | 4.08\% | 4.06\% | 4.21\% | 4.20\% | 4.26\% | 4.24\% | 4.66\% | 4.67\% | 4.77\% | 4.86\% | 5.15\% | 5.17\% | 4.68\% | 0.60\% |  |
|  | Concentration ratio - Ohio::U.S. | 1.19 | 1.21 | 1.26 | 1.23 | 1.27 | 1.26 | 1.37 | 1.40 | 1.44 | 1.49 | 1.60 | 1.61 | 1.46 | 0.27 |  |
| 525 | Funds-trusts-other financial vehicles: Ohio | \$0.29 | \$0.17 | \$0.26 | \$0.28 | \$0.32 | \$0.33 | \$0.54 | \$0.30 | \$0.20 | \$0.21 | \$0.19 | \$0.14 | \$0.17 | -\$0.12 | -40.0\% |
|  | U.S. | \$24.92 | \$17.58 | \$19.23 | \$17.97 | \$13.03 | \$16.09 | \$30.15 | \$20.87 | \$14.38 | \$22.56 | \$25.82 | \$20.63 | \$20.10 | -\$4.82 | -19.4\% |
|  | Ohio as percent of U.S. | 1.15\% | 0.97\% | 1.37\% | 1.55\% | 2.43\% | 2.05\% | 1.78\% | 1.42\% | 1.40\% | 0.95\% | 0.75\% | 0.69\% | 0.86\% | -0.30\% |  |
|  | Concentration ratio - Ohio::U.S. | 0.34 | 0.29 | 0.41 | 0.46 | 0.73 | 0.61 | 0.52 | 0.43 | 0.42 | 0.29 | 0.23 | 0.21 | 0.27 | -0.07 |  |
| 53 | Real estate, rental \& leasing: Ohio | \$61.77 | \$59.76 | \$61.49 | \$63.01 | \$64.19 | \$65.36 | \$65.44 | \$64.35 | \$64.93 | \$65.20 | \$65.58 | \$66.55 | \$63.43 | \$1.66 | 2.7\% |
|  | U.S. | \$2,001.27 | \$1,949.51 | \$2,033.32 | \$2,080.08 | \$2,116.80 | \$2,165.55 | \$2,177.62 | \$2,171.82 | \$2,187.70 | \$2,225.92 | \$2,289.30 | \$2,338.31 | \$2,306.83 | \$305.56 | 15.3\% |
|  | Ohio as percent of U.S. | 3.09\% | 3.07\% | 3.02\% | 3.03\% | 3.03\% | 3.02\% | 3.01\% | 2.96\% | 2.97\% | 2.93\% | 2.86\% | 2.85\% | 2.75\% | -0.34\% |  |
|  | Concentration ratio - Ohio:: U.S. | 0.90 | 0.91 | 0.90 | 0.89 | 0.90 | 0.90 | 0.89 | 0.89 | 0.90 | 0.90 | 0.89 | 0.89 | 0.86 | -0.04 |  |
| 531 | Real estate: Ohio | \$55.14 | \$54.02 | \$56.54 | \$58.72 | \$60.06 | \$60.91 | \$60.61 | \$58.86 | \$58.65 | \$58.66 | \$59.59 | \$60.37 | \$57.99 | \$2.84 | 5.2\% |
|  | U.S. | \$1,809.13 | \$1,783.57 | \$1,868.29 | \$1,914.46 | \$1,943.04 | \$1,983.86 | \$1,987.57 | \$1,963.87 | \$1,962.63 | \$1,993.42 | \$2,045.73 | \$2,074.33 | \$2,065.30 | \$256.17 | 14.2\% |
|  | Ohio as percent of U.S. | 3.05\% | 3.03\% | 3.03\% | 3.07\% | 3.09\% | 3.07\% | 3.05\% | 3.00\% | 2.99\% | 2.94\% | 2.91\% | 2.91\% | 2.81\% | -0.24\% |  |
|  | Concentration ratio - Ohio::U.S. | 0.89 | 0.90 | 0.90 | 0.90 | 0.92 | 0.91 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.91 | 0.88 | -0.01 |  |
| 532-3 | Rental \& leasing (inc. intangible assets): Ohio | \$6.65 | \$5.75 | \$4.95 | \$4.29 | \$4.13 | \$4.46 | \$4.84 | \$5.54 | \$6.44 | \$6.74 | \$6.08 | \$6.29 | \$5.44 | -\$1.21 | -18.2\% |
|  | U.S. | \$192.72 | \$165.98 | \$165.04 | \$165.61 | \$173.76 | \$181.72 | \$190.25 | \$209.40 | \$228.52 | \$236.59 | \$248.61 | \$272.23 | \$245.11 | \$52.40 | 27.2\% |
|  | Ohio as percent of U.S. | 3.45\% | 3.47\% | 3.00\% | 2.59\% | 2.37\% | 2.45\% | 2.55\% | 2.65\% | 2.82\% | 2.85\% | 2.44\% | 2.31\% | 2.22\% | -1.23\% |  |
|  | Concentration ratio - Ohio::U.S. | 1.00 | 1.03 | 0.89 | 0.76 | 0.71 | 0.73 | 0.75 | 0.80 | 0.85 | 0.87 | 0.76 | 0.72 | 0.69 | -0.31 |  |

Notes: ^ - a recession year for the nation as a whole; * - initial; prior years may have been revised
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).


Notes: ^ - a recession year for the nation as a whole; * - initial; prior years may have been revised
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

|  |  | Dollar figures in billions, standardized on 2012 |  |  |  |  |  |  |  |  |  |  |  |  | Real Net Change <br> Numeric Percent |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NAICS | Industry Title | 2008^ | 2009^ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020^* |  |  |
| Professional/Business Services in Constant Dollars |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11-92 | Total GDP: Ohio U.S. Ohio as percent of U.S. | $\begin{array}{r} \$ 537.1 \\ \$ 15,643.0 \\ 3.43 \% \end{array}$ | $\begin{array}{r} \$ 511.1 \\ \$ 15,236.3 \\ 3.35 \% \end{array}$ | $\begin{array}{r} \$ 524.0 \\ \$ 15,649.0 \\ 3.35 \% \end{array}$ | $\begin{array}{r} \$ 541.2 \\ \$ 15,891.5 \\ 3.41 \% \end{array}$ | $\begin{array}{r} \$ 545.7 \\ \$ 16,254.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 556.2 \\ \$ 16,553.3 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 574.2 \\ \$ 16,932.1 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 578.9 \\ \$ 17,390.3 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 583.9 \\ \$ 17,680.3 \\ 3.30 \% \end{array}$ | $\begin{array}{r} \$ 590.7 \\ \$ 18,079.1 \\ 3.27 \% \end{array}$ | $\begin{array}{r} \$ 598.9 \\ \$ 18,606.8 \\ 3.22 \% \end{array}$ | $\begin{array}{r} \$ 611.1 \\ \$ 19,032.7 \\ 3.21 \% \end{array}$ | $\begin{array}{r} \$ 589.9 \\ \$ 18,384.7 \\ 3.21 \% \end{array}$ | $\begin{array}{r} \$ 52.8 \\ \$ 2,741.7 \\ -0.23 \% \end{array}$ | $\begin{array}{r} 9.8 \% \\ 17.5 \% \end{array}$ |
| 54 | Prfsnl.-scntfc.-tchncl. srvcs.: Ohio | \$28.65 | \$27.26 | \$27.74 | \$29.41 | \$29.01 | \$29.20 | \$30.03 | \$30.54 | \$31.41 | \$31.98 | \$33.46 | \$34.67 | \$32.85 | \$4.20 | 14.7\% |
|  | U.S. | \$1,131.12 | \$1,066.13 | \$1,094.62 | \$1,142.32 | \$1,191.79 | \$1,193.85 | \$1,245.29 | \$1,299.70 | \$1,338.14 | \$1,383.53 | \$1,466.73 | \$1,530.38 | \$1,501.18 | \$370.06 | 32.7\% |
|  | Ohio as percent of U.S. | 2.53\% | 2.56\% | 2.53\% | 2.57\% | 2.43\% | 2.45\% | 2.41\% | 2.35\% | 2.35\% | 2.31\% | 2.28\% | 2.27\% | 2.19\% | -0.34\% |  |
|  | Concentration ratio - Ohio::U.S. | 0.74 | 0.76 | 0.76 | 0.76 | 0.73 | 0.73 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.68 | -0.06 |  |
| 5411 | Legal srvcs.: Ohio | \$6.31 | \$5.63 | \$5.15 | \$5.15 | \$4.90 | \$4.65 | \$4.53 | \$4.63 | \$4.75 | \$4.70 | \$4.75 | \$4.81 | \$4.44 | -\$1.87 | -29.6\% |
|  | U.S. | \$275.01 | \$240.74 | \$222.82 | \$224.63 | \$217.48 | \$209.99 | \$207.45 | \$211.16 | \$217.53 | \$214.79 | \$217.05 | \$218.92 | \$205.62 | -\$69.39 | $-25.2 \%$ |
|  | Ohio as percent of U.S. | 2.30\% | 2.34\% | 2.31\% | 2.29\% | 2.25\% | 2.21\% | 2.18\% | 2.19\% | 2.18\% | 2.19\% | 2.19\% | 2.20\% | 2.16\% | -0.13\% |  |
|  | Concentration ratio - Ohio.:U.S. | 0.67 | 0.70 | 0.69 | 0.67 | 0.67 | 0.66 | 0.64 | 0.66 | 0.66 | 0.67 | 0.68 | 0.68 | 0.67 | 0.01 |  |
| 5415 | Computer systems \& related srvcs.: Ohio | \$5.22 | \$5.49 | \$6.03 | \$6.80 | \$6.46 | \$6.72 | \$6.99 | \$7.24 | \$7.76 | \$8.21 | \$9.01 | \$9.35 | \$8.88 | \$3.66 | 70.2\% |
|  | U.S. | \$168.97 | \$177.95 | \$199.05 | \$221.46 | \$252.74 | \$257.62 | \$272.29 | \$295.64 | \$321.74 | \$346.83 | \$385.84 | \$406.40 | \$407.04 | \$238.07 | 140.9\% |
|  | Ohio as percent of U.S. | 3.09\% | 3.08\% | 3.03\% | 3.07\% | 2.56\% | 2.61\% | 2.57\% | 2.45\% | 2.41\% | 2.37\% | 2.33\% | 2.30\% | 2.18\% | -0.91\% |  |
|  | Concentration ratio - Ohio.:U.S. | 0.90 | 0.92 | 0.91 | 0.90 | 0.76 | 0.78 | 0.76 | 0.74 | 0.73 | 0.72 | 0.73 | 0.72 | 0.68 | -0.22 |  |
| $\begin{gathered} \hline 5412-4, \\ 5416-9 \end{gathered}$ | Other prfsnl.-scntfc.-tchncl. srvcs.: Ohio | \$17.32 | \$16.24 | \$16.58 | \$17.46 | \$17.66 | \$17.84 | \$18.54 | \$18.69 | \$18.96 | \$19.18 | \$19.90 | \$20.72 | \$19.77 | \$2.45 | 14.1\% |
|  | U.S. | \$695.46 | \$651.60 | \$674.05 | \$696.74 | \$721.57 | \$726.41 | \$766.43 | \$794.89 | \$802.35 | \$828.27 | \$874.55 | \$918.14 | \$904.82 | \$209.37 | 30.1\% |
|  | Ohio as percent of U.S. | 2.49\% | 2.49\% | 2.46\% | 2.51\% | 2.45\% | 2.46\% | 2.42\% | 2.35\% | 2.36\% | 2.32\% | 2.28\% | 2.26\% | 2.18\% | -0.31\% |  |
|  | Concentration ratio - Ohio.:U.S. | 0.73 | 0.74 | 0.73 | 0.74 | 0.73 | 0.73 | 0.71 | 0.71 | 0.72 | 0.71 | 0.71 | 0.70 | 0.68 | -0.04 |  |
| 55 | Enterprise mgt.: Ohio | \$15.00 | \$13.69 | \$14.65 | \$15.36 | \$18.82 | \$19.35 | \$20.64 | \$19.96 | \$20.29 | \$21.35 | \$21.95 | \$23.55 | \$24.44 | \$9.44 | 62.9\% |
|  | U.S. | \$272.95 | \$251.82 | \$269.68 | \$280.72 | \$302.14 | \$317.02 | \$338.35 | \$347.29 | \$351.74 | \$377.47 | \$404.62 | \$433.48 | \$439.80 | \$166.85 | 61.1\% |
|  | Ohio as percent of U.S. | 5.50\% | 5.44\% | 5.43\% | 5.47\% | 6.23\% | 6.10\% | 6.10\% | 5.75\% | 5.77\% | 5.66\% | 5.42\% | 5.43\% | 5.56\% | 0.06\% |  |
|  | Concentration ratio - Ohio::U.S. | 1.60 | 1.62 | 1.62 | 1.61 | 1.86 | 1.82 | 1.80 | 1.73 | 1.75 | 1.73 | 1.69 | 1.69 | 1.73 | 0.13 |  |
| 56 | Administrative \& waste mgt. srvcs.: Ohio | \$15.92 | \$14.41 | \$15.45 | \$16.31 | \$17.23 | \$17.93 | \$18.48 | \$18.36 | \$17.31 | \$17.90 | \$17.90 | \$18.10 | \$16.86 | \$0.93 | 5.8\% |
|  | U.S. | \$452.86 | \$416.18 | \$445.12 | \$460.19 | \$474.95 | \$481.83 | \$500.20 | \$507.46 | \$508.58 | \$540.74 | \$563.19 | \$583.07 | \$549.77 | \$96.91 | 21.4\% |
|  | Ohio as percent of U.S. | 3.52\% | 3.46\% | 3.47\% | 3.54\% | 3.63\% | 3.72\% | 3.70\% | 3.62\% | 3.40\% | 3.31\% | 3.18\% | 3.10\% | 3.07\% | -0.45\% |  |
|  | Concentration ratio - Ohio::U.S. | 1.02 | 1.03 | 1.04 | 1.04 | 1.08 | 1.11 | 1.09 | 1.09 | 1.03 | 1.01 | 0.99 | 0.97 | 0.96 | -0.07 |  |
| 561 | Administrative \& support srvcs.: Ohio | \$14.52 | \$13.07 | \$13.83 | \$14.84 | \$15.72 | \$16.16 | \$16.61 | \$16.43 | \$15.56 | \$15.93 | \$15.95 | \$16.19 | \$15.09 | \$0.58 | 4.0\% |
|  | U.S. | \$411.29 | \$375.17 | \$395.61 | \$416.86 | \$432.13 | \$439.67 | \$456.76 | \$463.57 | \$466.57 | \$494.81 | \$516.51 | \$536.72 | \$505.79 | \$94.51 | 23.0\% |
|  | Ohio as percent of U.S. | 3.53\% | 3.48\% | 3.50\% | 3.56\% | 3.64\% | 3.68\% | 3.64\% | 3.54\% | 3.33\% | 3.22\% | 3.09\% | 3.02\% | 2.98\% | -0.55\% |  |
|  | Concentration ratio - Ohio::U.S. | 1.03 | 1.04 | 1.04 | 1.05 | 1.08 | 1.09 | 1.07 | 1.06 | 1.01 | 0.99 | 0.96 | 0.94 | 0.93 | -0.10 |  |
| 562 | Waste mgt. \& remediation srvcs.: Ohio | \$1.40 | \$1.34 | \$1.62 | \$1.47 | \$1.51 | \$1.77 | \$1.87 | \$1.92 | \$1.75 | \$1.96 | \$1.95 | \$1.91 | \$1.76 | \$0.37 | 26.1\% |
|  | U.S. | \$41.23 | \$40.90 | \$49.63 | \$43.34 | \$42.82 | \$42.17 | \$43.46 | \$43.91 | \$42.09 | \$45.96 | \$46.79 | \$46.66 | \$44.23 | \$3.00 | 7.3\% |
|  | Ohio as percent of U.S. | 3.39\% | 3.29\% | 3.27\% | 3.40\% | 3.53\% | 4.19\% | 4.31\% | 4.38\% | 4.16\% | 4.27\% | 4.16\% | 4.09\% | 3.99\% | 0.60\% |  |
|  | Concentration ratio - Ohio::U.S. | 0.99 | 0.98 | 0.98 | 1.00 | 1.05 | 1.25 | 1.27 | 1.32 | 1.26 | 1.31 | 1.29 | 1.27 | 1.24 | 0.25 |  |

Notes: ^ - a recession year for the nation as a whole; * - initial; prior years may have been revised
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

|  |  | Dollar figures in Billions |  |  |  |  |  |  |  |  |  |  |  |  | NominalNetChange |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2012 NAICS | Industry Title | 2008^ | 2009^ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020^* |  |
| Health Care and Social Assistance in Current Dollars |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11-92 | Total GDP: Ohio U.S. Ohio as percent of U.S. | $\begin{array}{r} \$ 496.9 \\ \$ 14,769.9 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 482.3 \\ \$ 14,478.1 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 500.5 \\ \$ 15,049.0 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 528.2 \\ \$ 15,599.7 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 545.7 \\ \$ 16,254.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 566.5 \\ \$ 16,843.2 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 595.6 \\ \$ 17,550.7 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 611.0 \\ \$ 18,206.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 623.3 \\ \$ 18,695.1 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 641.7 \\ \$ 19,479.6 \\ 3.29 \% \end{array}$ | $\begin{array}{r} \$ 667.0 \\ \$ 20,527.2 \\ 3.25 \% \end{array}$ | $\begin{array}{r} \$ 693.2 \\ \$ 21,372.6 \\ 3.24 \% \end{array}$ | $\begin{array}{r} \$ 677.6 \\ \$ 20,893.7 \\ 3.24 \% \end{array}$ | -0.12\% |
| 62 | Health care \& social assistance ${ }^{\# \prime}$ : Ohio | \$41.80 | \$43.68 | \$44.58 | \$46.01 | \$47.91 | \$49.72 | \$50.78 | \$52.98 | \$55.09 | \$56.72 | \$58.35 | \$60.62 | \$58.65 |  |
|  | U.S. | \$1,017.20 | \$1,078.77 | \$1,112.33 | \$1,149.94 | \$1,195.07 | \$1,230.77 | \$1,266.43 | \$1,337.79 | \$1,406.43 | \$1,461.53 | \$1,523.02 | \$1,596.39 | \$1,547.29 |  |
|  | Ohio as percent of U.S. | 4.11\% | 4.05\% | 4.01\% | 4.00\% | 4.01\% | 4.04\% | 4.01\% | 3.96\% | 3.92\% | 3.88\% | 3.83\% | 3.80\% | 3.79\% | -0.32\% |
|  | Concentration ratio - Ohio::U.S. | 1.22 | 1.22 | 1.21 | 1.18 | 1.19 | 1.20 | 1.18 | 1.18 | 1.17 | 1.18 | 1.18 | 1.17 | 1.17 | -0.05 |
| 621 | Ambulatory health care srvcs.\#: Ohio | \$17.79 | \$18.63 | \$19.07 | \$19.85 | \$20.81 | \$21.45 | \$22.02 | \$22.85 | \$23.70 | \$24.80 | \$25.51 | \$26.52 | \$25.18 |  |
|  | U.S. | \$481.07 | \$507.20 | \$532.05 | \$555.76 | \$574.62 | \$594.28 | \$611.77 | \$644.39 | \$682.94 | \$712.42 | \$741.64 | \$780.84 | \$738.50 |  |
|  | Ohio as percent of U.S. | 3.70\% | 3.67\% | 3.58\% | 3.57\% | 3.62\% | 3.61\% | 3.60\% | 3.55\% | 3.47\% | 3.48\% | 3.44\% | 3.40\% | 3.41\% | -0.29\% |
|  | Concentration ratio - Ohio::U.S. | 1.10 | 1.10 | 1.08 | 1.05 | 1.08 | 1.07 | 1.06 | 1.06 | 1.04 | 1.06 | 1.06 | 1.05 | 1.05 | -0.05 |
| 622 | Hospitals\#: ${ }^{\text {P }}$ Ohio | \$15.40 | \$16.30 | \$16.64 | \$17.20 | \$18.03 | \$18.85 | \$19.19 | \$20.27 | \$21.08 | \$21.29 | \$21.90 | \$22.75 | \$22.54 |  |
|  | U.S. | \$339.91 | \$367.41 | \$369.92 | \$382.33 | \$398.47 | \$405.93 | \$416.26 | \$443.72 | \$461.01 | \$477.12 | \$495.21 | \$513.56 | \$513.02 |  |
|  | Ohio as percent of U.S. | 4.53\% | 4.44\% | 4.50\% | 4.50\% | 4.53\% | 4.64\% | 4.61\% | 4.57\% | 4.57\% | 4.46\% | 4.42\% | 4.43\% | 4.39\% | -0.14\% |
|  | Concentration ratio - Ohio::U.S. | 1.35 | 1.33 | 1.35 | 1.33 | 1.35 | 1.38 | 1.36 | 1.36 | 1.37 | 1.35 | 1.36 | 1.37 | 1.35 | 0.01 |
| 623 | Nursing \& residential care facilities\#: Ohio | \$5.73 | \$5.85 | \$5.93 | \$6.01 | \$6.04 | \$6.21 | \$6.23 | \$6.34 | \$6.55 | \$6.65 | \$6.84 | \$6.98 | \$6.85 |  |
|  | U.S. | \$110.53 | \$116.42 | \$120.66 | \$123.20 | \$125.96 | \$129.08 | \$132.45 | \$137.62 | \$142.95 | \$146.08 | \$152.44 | \$157.23 | \$155.00 |  |
|  | Ohio as percent of U.S. | 5.18\% | 5.03\% | 4.91\% | 4.88\% | 4.79\% | 4.81\% | 4.71\% | 4.60\% | 4.58\% | 4.55\% | 4.48\% | 4.44\% | 4.42\% | -0.76\% |
|  | Concentration ratio - Ohio::U.S. | 1.54 | 1.51 | 1.48 | 1.44 | 1.43 | 1.43 | 1.39 | 1.37 | 1.37 | 1.38 | 1.38 | 1.37 | 1.36 | -0.18 |
| 624 | Social assistance ${ }^{\#}$ : Ohio | \$2.88 | \$2.90 | \$2.94 | \$2.94 | \$3.03 | \$3.22 | \$3.33 | \$3.53 | \$3.76 | \$3.99 | \$4.10 | \$4.37 | \$4.08 |  |
|  | U.S. | \$85.69 | \$87.74 | \$89.70 | \$88.66 | \$96.02 | \$101.48 | \$105.95 | \$112.07 | \$119.54 | \$125.91 | \$133.73 | \$144.76 | \$140.77 |  |
|  | Ohio as percent of U.S. | 3.36\% | 3.31\% | 3.28\% | 3.32\% | 3.16\% | 3.17\% | 3.15\% | 3.15\% | 3.15\% | 3.17\% | 3.07\% | 3.02\% | 2.90\% | -0.46\% |
|  | Concentration ratio - Ohio::U.S. | 1.00 | 0.99 | 0.99 | 0.98 | 0.94 | 0.94 | 0.93 | 0.94 | 0.94 | 0.96 | 0.94 | 0.93 | 0.89 | -0.10 |

Notes: \# - these are private sector services and exclude those supported by tax dollars; ^ - a recession year for the nation as a whole; * - initial; prior years may have been revised
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

Table A11: Comparing Ohio and U.S. GDP by Industry - Health Care and Social Assistance, 2008-2020


Notes: \# - these are private sector services and exclude those supported by tax dollars; ^ - a recession year for the nation as a whole; * - initial; prior years may have been revised
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

|  |  | Dollar figures in Billions |  |  |  |  |  |  |  |  |  |  |  |  | Nominal Net Change |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2008^ | 2009^ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020^* |  |
| Leisur | Hospitality in Current Dollars |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11-92 | Total GDP: Ohio U.S. Ohio as percent of U.S. | $\begin{array}{r} \$ 496.9 \\ \$ 14,769.9 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 482.3 \\ \$ 14,478.1 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 500.5 \\ \$ 15,049.0 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 528.2 \\ \$ 15,599.7 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 545.7 \\ \$ 16,254.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 566.5 \\ \$ 16,843.2 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 595.6 \\ \$ 17,550.7 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 611.0 \\ \$ 18,206.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 623.3 \\ \$ 18,695.1 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 641.7 \\ \$ 19,479.6 \\ 3.29 \% \end{array}$ | $\begin{array}{r} \$ 667.0 \\ \$ 20,527.2 \\ 3.25 \% \end{array}$ | $\begin{array}{r} \$ 693.2 \\ \$ 21,372.6 \\ 3.24 \% \end{array}$ | $\begin{array}{r} \$ 677.6 \\ \$ 20,893.7 \\ 3.24 \% \end{array}$ | -0.12\% |
| 71 | Arts-entertainment-recreation: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S. | $\$ 4.13$ $\$ 143.24$ $2.88 \%$ 0.86 | $\begin{array}{r} \$ 4.41 \\ \$ 144.54 \\ 3.05 \% \\ 0.92 \end{array}$ | $\$ 4.97$ $\$ 152.42$ $3.26 \%$ 0.98 | $\begin{array}{r} \$ 5.14 \\ \$ 158.70 \\ 3.24 \% \\ 0.96 \end{array}$ | $\begin{array}{r} \$ 5.91 \\ \$ 171.78 \\ 3.44 \% \\ 1.02 \end{array}$ | $\begin{array}{r} \$ 6.56 \\ \$ 177.77 \\ 3.69 \% \\ 1.10 \\ \hline \end{array}$ | $\$ 6.57$ $\$ 189.34$ $3.47 \%$ 1.02 | $\begin{array}{r} \$ 6.60 \\ \$ 193.56 \\ 3.41 \% \\ 1.02 \\ \hline \end{array}$ | $\begin{array}{r} \$ 7.20 \\ \$ 207.22 \\ 3.48 \% \\ 1.04 \end{array}$ | $\begin{array}{r} \$ 7.35 \\ \$ 216.84 \\ 3.39 \% \\ 1.03 \\ \hline \end{array}$ | $\begin{array}{r} \$ 7.46 \\ \$ 230.00 \\ 3.24 \% \\ 1.00 \end{array}$ | $\$ 7.31$ $\$ 240.98$ $3.03 \%$ 0.94 | $\$ 5.69$ $\$ 163.36$ $3.48 \%$ 1.07 | $\begin{array}{r} 0.60 \% \\ 0.22 \\ \hline \end{array}$ |
| 711-2 | Performing arts, museums etc.: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S. | $\begin{array}{r} \$ 1.75 \\ \$ 81.50 \\ 2.15 \% \\ 0.64 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.68 \\ \$ 84.1 \\ 1.98 \% \\ 0.59 \end{array}$ | $\begin{array}{r} \$ 1.70 \\ \$ 87.86 \\ 1.93 \% \\ 0.58 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.89 \\ \$ 93.01 \\ 2.03 \% \\ 0.60 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.22 \\ \$ 101.76 \\ 2.18 \% \\ 0.65 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.09 \\ \$ 104.55 \\ 2.00 \% \\ 0.50 \end{array}$ | $\begin{array}{r} \$ 2.36 \\ \$ 112.54 \\ 2.10 \% \\ 0.62 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.39 \\ \$ 112.92 \\ 2.11 \% \\ 0.63 \end{array}$ | $\begin{array}{r} \$ 2.82 \\ \$ 122.23 \\ 2.30 \% \\ 0.69 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.30 \\ \$ 129.90 \\ 2.54 \% \\ 0.77 \end{array}$ | $\begin{array}{r} \$ 3.38 \\ \$ 138.98 \\ 2.44 \% \\ 0.75 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.16 \\ \$ 145.37 \\ 2.17 \% \\ 0.67 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.49 \\ \$ 91.30 \\ 2.72 \% \\ 0.84 \\ \hline \end{array}$ | $\begin{array}{r} 0.57 \% \\ 0.20 \\ \hline \end{array}$ |
| 713 | Amusements-gambling-recreation: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S. | $\begin{array}{r} \$ 2.38 \\ \$ 61.74 \\ 3.85 \% \\ 111 \end{array}$ | $\begin{array}{r} \$ 2.73 \\ \$ 59.73 \\ 4.57 \% \\ 1.37 \end{array}$ | $\begin{array}{r} \$ 3.27 \\ \$ 64.56 \\ 5.07 \% \\ 1.52 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.26 \\ \$ 65.70 \\ 4.96 \% \\ 1.46 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.69 \\ \$ 70.02 \\ 5.27 \% \\ 1.57 \end{array}$ | $\begin{array}{r} \$ 4.47 \\ \$ 73.23 \\ 6.11 \% \\ 1.82 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.21 \\ \$ 76.79 \\ 5.49 \% \\ 1.62 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.21 \\ \$ 80.63 \\ 5.22 \% \\ 1.56 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.39 \\ \$ 84.99 \\ 5.16 \% \\ 1.55 \\ \hline \$ 1629 \end{array}$ | $\begin{array}{r} \$ 4.05 \\ \$ 86.94 \\ 4.66 \% \\ 1.41 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.08 \\ \$ 91.03 \\ 4.48 \% \\ 1.38 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.15 \\ \$ 95.61 \\ 4.34 \% \\ 1.34 \\ \hline \end{array}$ | $\begin{array}{r} \$ 3.20 \\ \$ 72.06 \\ 4.44 \% \\ 1.37 \\ \hline \end{array}$ | $\begin{array}{r} 0.60 \% \\ 0.23 \\ \hline \end{array}$ |
| 72 | Accommodation \& food srvcs.: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S. | $\$ 10.52$ \$399.64 2.63\% 0.78 | \$10.38 \$388.47 2.67\% 0.80 | $\begin{array}{r} \$ 10.77 \\ \$ 403.81 \\ 2.67 \% \\ 0.80 \\ \hline \end{array}$ | $\begin{array}{r} \$ 11.36 \\ \$ 423.24 \\ 2.68 \% \\ 0.79 \\ \hline \end{array}$ | $\begin{array}{r} \$ 12.28 \\ \$ 450.96 \\ 2.72 \% \\ 0.81 \end{array}$ | $\$ 13.39$ \$474.51 2.82\% 0.84 | $\begin{array}{r} \$ 14.27 \\ \$ 502.60 \\ 2.84 \% \\ 0.84 \\ \hline \end{array}$ | $\$ 15.55$ \$553.47 2.81\% 0.84 | \$16.26 \$583.24 2.79\% 0.84 | $\begin{array}{r} \$ 16.68 \\ \$ 611.34 \\ 2.73 \% \\ 0.83 \\ \hline \end{array}$ | \$17.01 \$639.56 2.66\% 0.82 | $\$ 17.86$ $\$ 673.22$ 2.65\% 0.82 | \$14.42 \$508.72 2.84\% 0.87 | $\begin{array}{r} 0.20 \% \\ 0.09 \\ \hline \end{array}$ |
| 721 | Accommodation: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S | $\begin{array}{r} \$ 1.59 \\ \$ 123.48 \\ 1.29 \% \\ 0.38 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.44 \\ \$ 107.35 \\ 1.34 \% \\ 0.40 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.47 \\ \$ 112.14 \\ 1.32 \% \end{array}$ | $\begin{array}{r} \$ 1.53 \\ \$ 122.03 \\ 1.25 \% \\ 0.37 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.65 \\ \$ 128.89 \\ 1.28 \% \\ 0.38 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.12 \\ \$ 136.88 \\ 1.55 \% \\ 0.46 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.33 \\ \$ 143.13 \\ 1.63 \% \\ 0.48 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.47 \\ \$ 157.56 \\ 1.57 \% \\ 0.47 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.51 \\ \$ 160.21 \\ 1.57 \% \\ 0.47 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.34 \\ \$ 167.98 \\ 1.39 \% \\ 0.42 \end{array}$ | $\begin{array}{r} \$ 2.28 \\ \$ 176.24 \\ 1.29 \% \\ 0.40 \\ \hline \end{array}$ | $\begin{array}{r} \$ 2.51 \\ \$ 185.02 \\ 1.35 \% \\ 0.42 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1.55 \\ \$ 115.77 \\ 1.34 \% \\ 0.41 \end{array}$ | $\begin{array}{r} 0.05 \% \\ 0.03 \\ \hline \end{array}$ |
| 722 | Food srvcs. \& drinking places: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S. | $\begin{array}{r} \$ 8.94 \\ \$ 276.16 \\ 3.24 \% \\ 0.96 \\ \hline \end{array}$ | $\begin{array}{r} \$ 8.94 \\ \$ 281.12 \\ 3.18 \% \\ 0.96 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.30 \\ \$ 291.68 \\ 3.19 \% \\ 0.96 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.83 \\ \$ 301.21 \\ 3.26 \% \\ 0.96 \\ \hline \end{array}$ | $\begin{array}{r} \$ 10.63 \\ \$ 322.07 \\ 3.30 \% \\ 0.98 \\ \hline \end{array}$ | $\begin{array}{r} \$ 11.27 \\ \$ 337.63 \\ 3.34 \% \\ 0.99 \\ \hline \end{array}$ | $\begin{array}{r} \$ 11.94 \\ \$ 359.46 \\ 3.32 \% \\ 0.98 \\ \hline \end{array}$ | $\begin{array}{r} \$ 13.09 \\ \$ 395.90 \\ 3.31 \% \end{array}$ | $\begin{array}{r} \$ 13.75 \\ \$ 423.04 \\ 3.25 \% \end{array}$ | $\begin{array}{r} \$ 14.35 \\ \$ 443.36 \\ 3.24 \% \\ 0.98 \\ \hline \end{array}$ | $\begin{array}{r} \$ 14.73 \\ \$ 463.32 \\ 3.18 \% \\ 0.98 \\ \hline \end{array}$ | $\$ 15.36$ $\$ 488.20$ 3.15\% 0.97 | $\$ 12.87$ $\$ 392.95$ 3.28\% 1.01 | $\begin{array}{r} 0.04 \% \\ 0.05 \end{array}$ |

Notes: ^ - a recession year for the nation as a whole; *- initial; prior years may have been revised.
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

|  |  | Dollar figures in billions, standardized on 2012 |  |  |  |  |  |  |  |  |  |  |  |  | Real Net Change |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2012 | Industry Title | 2008^ | 2009^ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020^* | Numeric Percent |  |
| Leisure and Hospitality in Constant Dollars |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11-92 | Total GDP: Ohio U.S. Ohio as percent of U.S. | $\begin{array}{r} \$ 537.1 \\ \$ 15,643.0 \\ 3.43 \% \end{array}$ | $\begin{array}{r} \$ 511.1 \\ \$ 15,236.3 \\ 3.35 \% \end{array}$ | $\begin{array}{r} \$ 524.0 \\ \$ 15,649.0 \\ 3.35 \% \end{array}$ | $\begin{array}{r} \$ 541.2 \\ \$ 15,891.5 \\ 3.41 \% \end{array}$ | $\begin{array}{r} \$ 545.7 \\ \$ 16,254.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 556.2 \\ \$ 16,553.3 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 574.2 \\ \$ 16,932.1 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 578.9 \\ \$ 17,390.3 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 583.9 \\ \$ 17,680.3 \\ 3.30 \% \end{array}$ | $\begin{array}{r} \$ 590.7 \\ \$ 18,079.1 \\ 3.27 \% \end{array}$ | $\begin{array}{r} \$ 598.9 \\ \$ 18,606.8 \\ 3.22 \% \end{array}$ | $\begin{array}{r} \$ 611.1 \\ \$ 19,032.7 \\ 3.21 \% \end{array}$ | $\begin{array}{r} \$ 589.9 \\ \$ 18,384.7 \\ 3.21 \% \end{array}$ | $\begin{array}{r} \$ 52.8 \\ \$ 2,741.7 \\ -0.23 \% \end{array}$ | $\begin{array}{r} 9.8 \% \\ 17.5 \% \end{array}$ |
| 71 | Arts-entertainment-recreation: Ohio | \$4.44 | \$4.63 | \$5.23 | \$5.33 | \$5.91 | \$6.45 | \$6.35 | \$6.12 | \$6.47 | \$6.54 | \$6.50 | \$6.21 | \$4.59 | \$0.16 | 3.5\% |
|  | U.S. | \$153.51 | \$151.29 | \$159.16 | \$163.78 | \$171.78 | \$174.92 | \$182.69 | \$179.42 | \$185.70 | \$191.86 | \$199.44 | \$204.26 | \$132.05 | -\$21.45 | -14.0\% |
|  | Ohio as percent of U.S. | 2.89\% | 3.06\% | 3.29\% | 3.25\% | 3.44\% | 3.69\% | 3.47\% | 3.41\% | 3.48\% | 3.41\% | 3.26\% | 3.04\% | 3.48\% | 0.59\% |  |
|  | Concentration ratio - Ohio::U.S. | 0.84 | 0.91 | 0.98 | 0.96 | 1.02 | 1.10 | 1.02 | 1.03 | 1.06 | 1.04 | 1.01 | 0.95 | 1.08 | 0.24 |  |
| 711-2 | Performing arts, museums etc.: Ohio | \$1.87 | \$1.75 | \$1.75 | \$1.93 | \$2.22 | \$2.05 | \$2.27 | \$2.21 | \$2.51 | \$2.88 | \$2.91 | \$2.67 | \$2.02 | \$0.16 | 8.4\% |
|  | U.S. | \$86.81 | \$88.31 | \$90.45 | \$95.20 | \$101.76 | \$102.88 | \$108.47 | \$104.50 | \$109.02 | \$113.48 | \$119.57 | \$123.00 | \$74.29 | -\$12.52 | -14.4\% |
|  | Ohio as percent of U.S. | 2.15\% | 1.98\% | 1.93\% | 2.03\% | 2.18\% | 2.00\% | 2.10\% | 2.11\% | 2.30\% | 2.54\% | 2.44\% | 2.17\% | 2.72\% | 0.57\% |  |
|  | Concentration ratio - Ohio::U.S. | 0.63 | 0.59 | 0.58 | 0.60 | 0.65 | 0.59 | 0.62 | 0.64 | 0.70 | 0.78 | 0.76 | 0.68 | 0.85 | 0.22 |  |
| 713 | Amusements-gambling-recreation: Ohio | \$2.57 | \$2.88 | \$3.49 | \$3.40 | \$3.69 | \$4.40 | \$4.07 | \$3.91 | \$3.96 | \$3.65 | \$3.58 | \$3.53 | \$2.56 | \$0.00 | -0.2\% |
|  | U.S. | \$66.75 | \$62.99 | \$68.79 | \$68.60 | \$70.02 | \$72.04 | \$74.22 | \$74.93 | \$76.68 | \$78.35 | \$79.81 | \$81.19 | \$57.69 | -\$9.06 | -13.6\% |
|  | Ohio as percent of U.S. | 3.85\% | 4.57\% | 5.07\% | 4.96\% | 5.27\% | 6.11\% | 5.49\% | 5.22\% | 5.16\% | 4.66\% | 4.48\% | 4.34\% | 4.44\% | 0.60\% |  |
|  | Concentration ratio - Ohio::U.S. | 1.12 | 1.36 | 1.51 | 1.46 | 1.57 | 1.82 | 1.62 | 1.57 | 1.56 | 1.42 | 1.39 | 1.35 | 1.38 | 0.26 |  |
| 72 | Accommodation \& food srvcs.: Ohio | \$11.93 | \$11.06 | \$11.40 | \$11.92 | \$12.28 | \$12.99 | \$13.52 | \$14.01 | \$14.03 | \$14.03 | \$13.85 | \$14.06 | \$10.64 | -\$1.29 | -10.8\% |
|  | U.S. | \$445.96 | \$412.84 | \$427.24 | \$443.73 | \$450.96 | \$460.59 | \$475.85 | \$499.29 | \$504.92 | \$515.81 | \$521.17 | \$530.93 | \$383.58 | -\$62.37 | -14.0\% |
|  | Ohio as percent of U.S. | 2.68\% | 2.68\% | 2.67\% | 2.69\% | 2.72\% | 2.82\% | 2.84\% | 2.81\% | 2.78\% | 2.72\% | 2.66\% | 2.65\% | 2.77\% | 0.10\% |  |
|  | Concentration ratio - Ohio::U.S. | 0.78 | 0.80 | 0.80 | 0.79 | 0.81 | 0.84 | 0.84 | 0.84 | 0.84 | 0.83 | 0.83 | 0.82 | 0.86 | 0.09 |  |
| 721 | Accommodation: Ohio | \$1.64 | \$1.51 | \$1.56 | \$1.59 | \$1.65 | \$2.06 | \$2.19 | \$2.25 | \$2.21 | \$2.01 | \$1.87 | \$2.00 | \$1.33 | -\$0.31 | -18.9\% |
|  | U.S. | \$127.43 | \$112.54 | \$118.84 | \$127.24 | \$128.89 | \$133.25 | \$134.75 | \$143.55 | \$141.15 | \$144.38 | \$144.71 | \$147.78 | \$99.31 | -\$28.12 | -22.1\% |
|  | Ohio as percent of U.S. | 1.29\% | 1.34\% | 1.32\% | 1.25\% | 1.28\% | 1.55\% | 1.63\% | 1.57\% | 1.57\% | 1.39\% | 1.29\% | 1.35\% | 1.34\% | 0.05\% |  |
|  | Concentration ratio - Ohio::U.S. | 0.37 | 0.40 | 0.39 | 0.37 | 0.38 | 0.46 | 0.48 | 0.47 | 0.47 | 0.43 | 0.40 | 0.42 | 0.42 | 0.04 |  |
| 722 | Food srvcs. \& drinking places: Ohio | \$10.29 | \$9.56 | \$9.83 | \$10.33 | \$10.63 | \$10.93 | \$11.33 | \$11.76 | \$11.82 | \$12.02 | \$11.97 | \$12.05 | \$9.29 | -\$1.01 | -9.8\% |
|  | U.S. | \$318.16 | \$300.32 | \$308.40 | \$316.48 | \$322.07 | \$327.34 | \$341.10 | \$355.75 | \$363.71 | \$371.37 | \$376.38 | \$383.08 | \$283.54 | -\$34.62 | -10.9\% |
|  | Ohio as percent of U.S. | 3.24\% | 3.18\% | 3.19\% | 3.26\% | 3.30\% | 3.34\% | 3.32\% | 3.31\% | 3.25\% | 3.24\% | 3.18\% | 3.15\% | 3.28\% | 0.04\% |  |
|  | Concentration ratio - Ohio::U.S. | 0.94 | 0.95 | 0.95 | 0.96 | 0.98 | 0.99 | 0.98 | 0.99 | 0.98 | 0.99 | 0.99 | 0.98 | 1.02 | 0.08 |  |

Notes: ^ - a recession year for the nation as a whole; *- initial; prior years may have been revised
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

|  |  | Dollar figures in Billions |  |  |  |  |  |  |  |  |  |  |  |  | Nominal Net Change |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2008^ | 2009^ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020^* |  |
| Government in Current Dollars |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11-92 | Total GDP: Ohio U.S. Ohio as percent of U.S. | $\begin{array}{r} \$ 496.9 \\ \$ 14,769.9 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 482.3 \\ \$ 14,478.1 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 500.5 \\ \$ 15,049.0 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 528.2 \\ \$ 15,599.7 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 545.7 \\ \$ 16,254.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 566.5 \\ \$ 16,843.2 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 595.6 \\ \$ 17,550.7 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 611.0 \\ \$ 18,206.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 623.3 \\ \$ 18,695.1 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 641.7 \\ \$ 19,479.6 \\ 3.29 \% \end{array}$ | $\begin{array}{r} \$ 667.0 \\ \$ 20,527.2 \\ 3.25 \% \end{array}$ | $\begin{array}{r} \$ 693.2 \\ \$ 21,372.6 \\ 3.24 \% \end{array}$ | $\begin{array}{r} \$ 677.6 \\ \$ 20,893.7 \\ 3.24 \% \end{array}$ | -0.12\% |
| $\overline{92,491{ }^{\text {\# }}}$ | Government, all levels: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S. |  | $\$ 2,045.05$ 2.89\% 0.87 | \$2,107.96 2.93\% <br> 0.88 | $\$ 61.95$ $\$ 2.137 .06$ 2.90\% <br> 0.86 | \$2,159.49 2.93\% |  |  | \$2,339.44 2.87\% <br> 0.85 |  | \$2,447.07 <br> 2.88\% |  |  | \$2,670.61 2.83\% <br> 0.87 | $\begin{array}{r} -0.10 \% \\ 0.00 \\ \hline \end{array}$ |
| $\begin{gathered} \overline{92 f,} \\ 491^{\#} \end{gathered}$ | Federal govt. total GDP: Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S | \$12.89 \$632.21 2.04\% | $\$ 13.31$ $\$ 663.33$ 2.01\% | $\begin{array}{r} \$ 14.10 \\ \$ 697.45 \\ 2.02 \% \end{array}$ | \$14.18 \$712.25 1.99\% 0.59 | $\$ 14.19$ $\$ 713.89$ 1.99\% 0.59 | \$13.98 \$703.81 1.99\% | \$14.35 \$715.83 2.00\% | $\begin{array}{r} \$ 14.75 \\ \$ 731.28 \\ 2.02 \% \end{array}$ | $\begin{array}{r} \$ 15.03 \\ \$ 743.01 \\ 2.02 \% \end{array}$ | \$15.45 \$761.73 2.03\% | $\begin{array}{r} \$ 16.06 \\ \$ 789.42 \\ 2.03 \% \\ 0.63 \\ \hline \end{array}$ | $\begin{array}{r} \$ 16.66 \\ \$ 811.46 \\ 2.05 \% \end{array}$ | \$17.61 \$848.35 2.08\% | $\begin{array}{r} 0.04 \% \\ 0.03 \end{array}$ |
| $\begin{gathered} \overline{92 f c ~ \& ~} \\ 491^{\# \prime} \end{gathered}$ | Federal civilian (inc. Postal Service): Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S. | $\begin{array}{r} \$ 9.07 \\ \$ 346.67 \\ 2.62 \% \end{array}$ | $\begin{array}{r} \$ 9.25 \\ \$ 362.70 \\ 2.55 \% \end{array}$ | $\begin{array}{r} \$ 9.94 \\ \$ 384.76 \\ 2.58 \% \\ 0.78 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.95 \\ \$ 391.39 \\ 2.54 \% \end{array}$ | $\begin{array}{r} \$ 9.93 \\ \$ 391.42 \\ 2.54 \% \\ 0.76 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.73 \\ \$ 386.06 \\ 2.52 \% \end{array}$ | $\$ 10.17$ $\$ 401.19$ 2.53\% 0.75 | $\begin{array}{r} \$ 10.62 \\ \$ 420.19 \\ 2.53 \% \\ 0.75 \\ \hline \end{array}$ | $\begin{array}{r} \$ 10.91 \\ \$ 433.95 \\ 2.51 \% \end{array}$ | \$11.37 \$451.40 2.52\% | \$11.88 $\$ 469.52$ 2.53\% 0.78 | \$12.21 \$481.98 2.53\% | \$12.82 $\$ 506.38$ 2.53\% 0.78 | $\begin{array}{r} -0.08 \% \\ 0.00 \\ \hline \end{array}$ |
| 92811 | ```Federal military: Ohio U.S. Ohio as percent of U.S. Concentration ratio - Ohio::U.S``` | $\begin{array}{r} \$ 3.82 \\ \$ 285.54 \\ 1.34 \% \\ 0.40 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.06 \\ \$ 300.63 \\ 1.35 \% \end{array}$ | $\begin{array}{r} \$ 4.16 \\ \$ 312.69 \\ 1.33 \% \\ 0.40 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.23 \\ \$ 320.86 \\ 1.32 \% \\ 0.39 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.26 \\ \$ 322.47 \\ 1.32 \% \\ 0.39 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.25 \\ \$ 317.75 \\ 1.34 \% \end{array}$ | $\begin{array}{r} \$ 4.18 \\ \$ 314.64 \\ 1.33 \% \\ 0.39 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.13 \\ \$ 311.09 \\ 1.33 \% \\ 0.40 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.12 \\ \$ 309.06 \\ 1.33 \% \\ 0.40 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.08 \\ \$ 310.33 \\ 1.31 \% \\ 0.40 \\ \hline \end{array}$ | $\$ 319.90$ <br> 1.31\% <br> 0.40 | $\begin{array}{r} \$ 4.45 \\ \$ 329.49 \\ 1.35 \% \\ 0.42 \\ \hline \end{array}$ | $\begin{array}{r} \$ 4.79 \\ \$ 341.97 \\ 1.40 \% \\ 0.43 \\ \hline \end{array}$ | $\begin{array}{r} 0.06 \% \\ 0.03 \end{array}$ |
| 92sI | State \& local: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S | \$1,349.40 <br> 3.36\% <br> 1.00 | \$1,381.73 3.31\% 0.99 | \$1,410.52 <br> 3.39\% <br> 1.02 | \$1,424.81 3.35\% 0.99 | \$1,445.60 <br> 3.39\% <br> 1.01 |  | \$1,555.54 3.29\% 0.97 | \$1,608.16 3.26\% 0.97 |  | \$1,685.34 <br> 3.26\% <br> 0.99 | \$1,756.86 3.20\% 0.98 | $\begin{array}{r} \$ 57.77 \\ \$ 1,81.33 \\ 3.19 \% \\ 0.98 \end{array}$ | $\begin{array}{r} \$ 58.06 \\ \$ 1,822.25 \\ 3.19 \% \\ 0.98 \end{array}$ | $\begin{array}{r} -0.17 \% \\ -0.02 \end{array}$ |
| 92sı | State \& local in Ohio as a percentage of all government activity in Ohio (92sl/(92, 491")) | 77.87\% | 77.47\% | 77.20\% | 77.11\% | 77.57\% | 78.27\% | 78.11\% | 78.02\% | 78.12\% | 78.06\% | 77.77\% | 77.61\% | 76.73\% | -1.13\% |

Notes: \#-491-the U.S. Postal Service; ^ - a recession year for the nation as a whole; * - initial; prior years may have been revised
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).


Notes: \#-491-the U.S. Postal Service; ^ - a recession year for the nation as a whole; * - initial; prior years may have been revised
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \& \& \multicolumn{13}{|c|}{Dollar figures in Billions} \& \multirow[t]{2}{*}{Nominal Net Change} \\
\hline \[
\begin{aligned}
\& 2012 \\
\& \text { NAICS }
\end{aligned}
\] \& Industry Title \& 2008^ \& 2009^ \& 2010 \& 2011 \& 2012 \& 2013 \& 2014 \& 2015 \& 2016 \& 2017 \& 2018 \& 2019 \& 2020^* \& \\
\hline Infrastru \& e, Trade, Education and Other \& olars \& \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline 11-92 \& Total GDP: Ohio U.S. Ohio as percent of U.S. \& \[
\begin{array}{r}
\$ 496.9 \\
\$ 14,769.9 \\
3.36 \%
\end{array}
\] \& \[
\begin{array}{r}
\$ 482.3 \\
\$ 14,478.1 \\
3.33 \%
\end{array}
\] \& \[
\begin{array}{r}
\$ 500.5 \\
\$ 15,049.0 \\
3.33 \%
\end{array}
\] \& \[
\begin{array}{r}
\$ 528.2 \\
\$ 15,599.7 \\
3.39 \%
\end{array}
\] \& \[
\begin{array}{r}
\$ 545.7 \\
\$ 16,254.0 \\
3.36 \%
\end{array}
\] \& \[
\begin{array}{r}
\$ 566.5 \\
\$ 16,843.2 \\
3.36 \%
\end{array}
\] \& \[
\begin{array}{r}
\$ 595.6 \\
\$ 17,550.7 \\
3.39 \%
\end{array}
\] \& \[
\begin{array}{r}
\$ 611.0 \\
\$ 18,206.0 \\
3.36 \%
\end{array}
\] \& \[
\begin{array}{r}
\$ 623.3 \\
\$ 18,695.1 \\
3.33 \%
\end{array}
\] \& \[
\begin{array}{r}
\$ 641.7 \\
\$ 19,479.6 \\
3.29 \%
\end{array}
\] \& \[
\begin{array}{r}
\$ 667.0 \\
\$ 20,527.2 \\
3.25 \%
\end{array}
\] \& \[
\begin{array}{r}
\$ 693.2 \\
\$ 21,372.6 \\
3.24 \%
\end{array}
\] \& \[
\begin{array}{r}
\$ 677.6 \\
\$ 20,893.7 \\
3.24 \%
\end{array}
\] \& -0.12\% \\
\hline 22 \& \begin{tabular}{l}
Utilities: Ohio U.S. \\
Ohio as percent of U.S. Concentration ratio - Ohio::U.S
\end{tabular} \& \[
\begin{array}{r}
\$ 8.79 \\
\$ 241.67 \\
3.64 \% \\
1.08 \\
\hline
\end{array}
\] \& \[
\begin{array}{r}
\$ 9.53 \\
\$ 257.82 \\
3.70 \% \\
1.11 \\
\hline
\end{array}
\] \& \$10.04 \$279.11 3.60\% 1.08 \& \$10.17 \$288.28 3.53\% 1.04 \& \[
\begin{array}{r}
\$ 9.94 \\
\$ 280.65 \\
3.54 \% \\
1.06 \\
\hline
\end{array}
\] \& \[
\begin{array}{r}
\$ 10.14 \\
\$ 286.91 \\
3.53 \% \\
1.05 \\
\hline
\end{array}
\] \& \[
\begin{array}{r}
\$ 10.53 \\
\$ 298.35 \\
3.53 \% \\
1.04 \\
\hline
\end{array}
\] \& \[
\begin{array}{r}
\$ 10.58 \\
\$ 299.23 \\
3.53 \% \\
1.05 \\
\hline
\end{array}
\] \& \[
\begin{array}{r}
\$ 10.65 \\
\$ 302.01 \\
3.53 \% \\
1.06 \\
\hline
\end{array}
\] \& \[
\begin{array}{r}
\hline \$ 10.54 \\
\$ 311.58 \\
3.38 \% \\
1.03
\end{array}
\] \& \[
\begin{array}{r}
\$ 10.61 \\
\$ 319.04 \\
3.33 \%
\end{array}
\] \& \[
\begin{array}{r}
\hline \$ 10.79 \\
\$ 333.29 \\
3.24 \% \\
1.00 \\
\hline
\end{array}
\] \& \(\$ 10.91\) \$341.72 3.19\% 0.98 \& \[
\begin{array}{r}
-0.45 \% \\
-0.10 \\
\hline
\end{array}
\] \\
\hline 23 \& \begin{tabular}{l}
Construction: Ohio U.S. \\
Ohio as percent of U.S. Concentration ratio - Ohio::U.S
\end{tabular} \& \$17.25 \$649.28 2.66\% 0.79 \& \$15.95 \$565.42 2.82\% 0.85 \& \[
\begin{array}{r}
\$ 14.54 \\
\$ 525.74 \\
2.76 \% \\
0.83 \\
\hline
\end{array}
\] \& \[
\begin{array}{r}
\$ 15.61 \\
\$ 525.62 \\
2.97 \% \\
0.88 \\
\hline
\end{array}
\] \& \$17.24 \$554.94 3.11\% 0.93 \& \$18.17 \$588.68 3.09\% 0.92 \& \[
\begin{array}{r}
\$ 19.29 \\
\$ 637.65 \\
3.03 \% \\
0.89 \\
\hline
\end{array}
\] \& \[
\begin{array}{r}
\$ 20.47 \\
\$ 695.32 \\
2.94 \% \\
0.88 \\
\hline
\end{array}
\] \& \[
\begin{array}{r}
\$ 21.72 \\
\$ 747.71 \\
2.90 \%
\end{array}
\] \& \[
\begin{array}{r}
\$ 23.93 \\
\$ 800.61 \\
2.99 \% \\
0.91 \\
\hline
\end{array}
\] \& \(\$ 24.61\) \$847.11 2.91\% 0.89 \& \[
\begin{array}{r}
\$ 26.22 \\
\$ 903.61 \\
2.90 \% \\
0.89 \\
\hline
\end{array}
\] \& \(\$ 26.08\) \$895.86 2.91\% 0.90 \& \[
\begin{array}{r}
0.26 \% \\
0.11 \\
\hline
\end{array}
\] \\
\hline 42 \& \begin{tabular}{l}
Wholesale trade: Ohio U.S. \\
Ohio as percent of U.S. Concentration ratio - Ohio::U.S
\end{tabular} \& \(\$ 31.90\) \$884.83 3.61\% 1.07 \& \$29.60 \$833.83 3.55\% 1.07 \& \$31.27 \$889.98 3.51\% 1.06 \& \$32.32 \(\$ 937.09\) 3.45\% 1.02 \& \$1,000.29 3.41\% \& \begin{tabular}{l}
\(\$ 35.74\)
\(\$ 1,042.25\) \\
3.43\% \\
1.02
\end{tabular} \& \begin{tabular}{l}
\$1,089.60 \\
3.45\% \\
1.02
\end{tabular} \& \begin{tabular}{l}
\(\$ 39.14\)
\(\$ 1,143.57\) \\
3.42\% \\
1.02
\end{tabular} \& \[
\begin{array}{r}
\$ 39.16 \\
\$ 1,355.85 \\
3.45 \% \\
1.03
\end{array}
\] \& \begin{tabular}{l}
\(\$ 40.46\)
\(\$ 1,165.67\) \\
3.47\%
\end{tabular} \& \begin{tabular}{l}
\$1,217.45 \\
3.43\% \\
1.06
\end{tabular} \& \begin{tabular}{l}
\$1,275.01 \\
3.42\% \\
1.05
\end{tabular} \& \[
\begin{array}{r}
\$ 41.73 \\
\$ 1,243.27 \\
3.36 \% \\
102
\end{array}
\] \& \[
\begin{array}{r}
-0.25 \% \\
-0.04 \\
\hline
\end{array}
\] \\
\hline 44-45 \& \begin{tabular}{l}
Retail trade: Ohio U.S. \\
Ohio as percent of U.S. Concentration ratio - Ohio::U.S.
\end{tabular} \& \(\$ 29.93\) \$848.85 3.53\% 1.05 \& \[
\begin{array}{r}
\$ 29.49 \\
\$ 827.25 \\
3.57 \% \\
\hline
\end{array}
\] \& \$29.93 \$852.05 3.51\% 1.06 \& \(\$ 31.10\) \$873.11 3.56\% 1.05 \& \(\$ 31.79\) \$910.01 3.49\% 1.04 \& \[
\begin{array}{r}
\$ 33.50 \\
\$ 950.58 \\
3.52 \%
\end{array}
\] \& \[
\begin{array}{r}
\$ 34.55 \\
\$ 975.14
\end{array}
\]
\[
3.54 \%
\] \& \[
\begin{array}{r}
\$ 36.25 \\
\$ 1,020.33 \\
3.55 \%
\end{array}
\] \& \[
\begin{array}{r}
\$ 36.81 \\
\$ 1,052.99 \\
3.50 \%
\end{array}
\] \& \(\$ 38.07\)
\(\$ 1,081.64\)
\(3.52 \%\) \& \[
\begin{array}{r}
\$ 37.87 \\
\$ 1,119.69 \\
3.38 \%
\end{array}
\] \&  \& \[
\begin{array}{r}
\$ 40.68 \\
\$ 1,202.20 \\
3.38 \%
\end{array}
\] \& \(\begin{array}{r}-0.14 \% \\ 0.00 \\ \hline\end{array}\) \\
\hline 61 \& \begin{tabular}{l}
Educational srvcs \({ }^{\#}\) : Ohio U.S. \\
Ohio as percent of U.S. Concentration ratio - Ohio::U.S
\end{tabular} \& \[
\begin{array}{r}
\$ 4.94 \\
\$ 167.78 \\
2.95 \%
\end{array}
\] \& \(\$ 5.44\) \$188.21 2.89\% \& \[
\begin{array}{r}
\$ 5.66 \\
\$ 198.96 \\
2.84 \%
\end{array}
\]
\[
0.86
\] \& \[
\begin{array}{r}
\$ 5.83 \\
\$ 206.29 \\
2.82 \%
\end{array}
\] \& \[
\begin{array}{r}
\$ 5.86 \\
\$ 214.19 \\
2.74 \% \\
0.81
\end{array}
\] \& \[
\begin{array}{r}
\$ 5.81 \\
\$ 217.64 \\
2.67 \% \\
0.79 \\
\hline
\end{array}
\] \& \[
\begin{array}{r}
\$ 5.94 \\
\$ 226.16 \\
2.63 \%
\end{array}
\] \& \[
\begin{array}{r}
\$ 5.94 \\
\$ 233.45 \\
2.54 \% \\
0.76 \\
\hline
\end{array}
\] \& \[
\begin{array}{r}
\$ 6.18 \\
\$ 246.21 \\
2.51 \% \\
0.75 \\
\hline
\end{array}
\] \& \[
\begin{array}{r}
\$ 6.06 \\
\$ 249.21 \\
2.43 \% \\
0.74 \\
\hline
\end{array}
\] \& \[
\begin{array}{r}
\$ 6.17 \\
\$ 261.14 \\
2.36 \%
\end{array}
\] \& \[
\begin{array}{r}
\$ 6.39 \\
\$ 275.04 \\
2.32 \%
\end{array}
\] \& \[
\begin{array}{r}
\$ 5.69 \\
\$ 251.32 \\
2.27 \%
\end{array}
\] \& 0.00

$-0.68 \%$
-0.18 <br>

\hline 81 \& | Other srvcs.: Ohio U.S. |
| :--- |
| Ohio as percent of U.S. |
| Concentration ratio - Ohio::U.S. | \& \[

$$
\begin{array}{r}
\$ 10.64 \\
\$ 330.33 \\
3.22 \% \\
0.96 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
\hline \$ 10.37 \\
\$ 326.37 \\
3.18 \% \\
0.95 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
\$ 10.44 \\
\$ 328.19 \\
3.18 \% \\
0.96 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
\$ 10.83 \\
\$ 333.54 \\
3.25 \% \\
0.96 \\
\hline
\end{array}
$$

\] \& $\$ 11.40$ \$348.58 3.27\% 0.97 \& \[

$$
\begin{array}{r}
\$ 11.56 \\
\$ 356.66 \\
3.24 \% \\
0.96 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
\$ 12.22 \\
\$ 376.81 \\
3.24 \% \\
0.96 \\
\hline
\end{array}
$$

\] \& \$12.71 \$391.64 3.25\% \& \[

$$
\begin{array}{r}
\$ 1.123 \\
\$ 400.46 \\
3.23 \% \\
0.97 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
\$ 13.43 \\
\$ 413.49 \\
3.25 \% \\
0.99
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
\$ 14.04 \\
\$ 436.52 \\
3.22 \% \\
0.99
\end{array}
$$

\] \& $\$ 14.55$ \$454.39 3.20\% 0.99 \& \$13.43 \$418.99 3.20\% 0.99 \& \[

$$
\begin{array}{r}
-0.02 \% \\
0.03 \\
\hline
\end{array}
$$
\] <br>

\hline
\end{tabular}

Notes: ^ - a recession year for the nation as a whole; *- intial; prior years may have been revised.
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

Table A14: Comparing Ohio and U.S. GDP by Industry - Infrastructure, Trade, Education and Other Services, 2008-2020

|  |  | Dollar figures in billions, standardized on 2012 |  |  |  |  |  |  |  |  |  |  |  |  | Real Net Change |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 2012 \\ & \text { NAICS } \end{aligned}$ |  | 2008^ | 2009^ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020^* |  |  |
| Infrastructure, Trade, Education and Other Services in Constant Dollars |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11-92 | Total GDP: Ohio U.S. Ohio as percent of U.S. | $\begin{array}{r} \$ 537.1 \\ \$ 15,643.0 \\ 3.43 \% \end{array}$ | $\begin{array}{r} \$ 511.1 \\ \$ 15,236.3 \\ 3.35 \% \end{array}$ | $\begin{array}{r} \$ 524.0 \\ \$ 15,649.0 \\ 3.35 \% \end{array}$ | $\begin{array}{r} \$ 541.2 \\ \$ 15,891.5 \\ 3.41 \% \end{array}$ | $\begin{array}{r} \$ 545.7 \\ \$ 16,254.0 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 556.2 \\ \$ 16,553.3 \\ 3.36 \% \end{array}$ | $\begin{array}{r} \$ 574.2 \\ \$ 16,932.1 \\ 3.39 \% \end{array}$ | $\begin{array}{r} \$ 578.9 \\ \$ 17,390.3 \\ 3.33 \% \end{array}$ | $\begin{array}{r} \$ 583.9 \\ \$ 17,680.3 \\ 3.30 \% \end{array}$ | $\begin{array}{r} \$ 590.7 \\ \$ 18,079.1 \\ 3.27 \% \end{array}$ | $\begin{array}{r} \$ 598.9 \\ \$ 18,606.8 \\ 3.22 \% \end{array}$ | $\begin{array}{r} \$ 611.1 \\ \$ 19,032.7 \\ 3.21 \% \end{array}$ | $\begin{array}{r} \$ 589.9 \\ \$ 18,384.7 \\ 3.21 \% \end{array}$ | $\begin{array}{r} \$ 52.8 \\ \$ 2,741.7 \\ -0.23 \% \end{array}$ | $\begin{gathered} 9.8 \% \\ 17.5 \% \end{gathered}$ |
| 22 | Utilities: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S. | $\$ 251.29$ <br> 3.64\% <br> 1.06 | $\begin{array}{r} \$ 8.75 \\ \$ 236.78 \\ 3.70 \% \\ 1.10 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.58 \\ \$ 266.35 \\ 3.60 \% \\ 1.07 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.77 \\ \$ 276.94 \\ 3.53 \% \\ 1.04 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.94 \\ \$ 280.65 \\ 3.54 \% \\ 1.06 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.79 \\ \$ 277.16 \\ 3.53 \% \\ 1.05 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.40 \\ \$ 266.29 \\ 3.53 \% \\ 1.04 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.42 \\ \$ 266.39 \\ 3.53 \% \\ 1.06 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.90 \\ \$ 280.73 \\ 3.53 \% \\ 1.07 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.61 \\ \$ 284.09 \\ 3.38 \% \\ 1.04 \\ \hline \end{array}$ | $\begin{array}{r} \$ 9.41 \\ \$ 283.11 \\ 3.33 \% \\ 1.03 \\ \hline \end{array}$ | $\$ 9.28$ $\$ 286.55$ <br> 3.24\% <br> 1.01 | $\begin{array}{r} \$ 9.53 \\ \$ 298.56 \\ 3.19 \% \end{array}$ | $\begin{array}{r} \$ 0.39 \\ \$ 47.27 \\ -0.45 \% \\ -0.06 \\ \hline \end{array}$ | $\begin{array}{r} \hline 4.3 \% \\ 18.8 \% \end{array}$ |
| 23 | Construction: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S | $\$ 17.89$ $\$ 673.38$ 2.66\% 0.77 | $\$ 16.28$ $\$ 576.92$ 2.82\% | $\begin{array}{r} \$ 15.16 \\ \$ 548.34 \\ 2.76 \% \end{array}$ | $\$ 16.04$ $\$ 539.95$ 2.97\% | \$17.24 \$554.94 3.11\% | \$17.54 \$568.27 3.09\% 0.92 | $\begin{array}{r} \$ 17.52 \\ \$ 579.08 \\ 3.03 \% \end{array}$ | $\$ 17.81$ $\$ 605.09$ 2.94\% | $\$ 18.25$ $\$ 628.16$ 2.90\% | $\$ 19.44$ $\$ 650.56$ 2.99\% 0.91 | \$19.34 \$665.69 2.91\% 0.90 | $\$ 19.58$ $\$ 674.74$ 2.90\% 0.90 | $\begin{array}{r} \$ 18.94 \\ \$ 650.44 \\ 2.91 \% \end{array}$ | $\begin{array}{r} \$ 1.05 \\ -\$ 22.94 \\ 0.26 \% \\ 0.13 \\ \hline \end{array}$ | $\begin{array}{r} 5.9 \% \\ -3.4 \% \end{array}$ |
| 42 | Wholesale trade: Ohio U.S. <br> Ohio as percent of U.S. Concentration ratio - Ohio::U.S | \$1,016.80 <br> 3.61\% <br> 1.05 | $\begin{array}{r} \$ 31.68 \\ \$ 892.40 \\ 3.55 \% \\ 1.06 \\ \hline \end{array}$ | $\$ 33.20$ $\$ 944.96$ 3.51\% 1.05 | $\begin{array}{r} \$ 33.34 \\ \$ 966.66 \\ 3.45 \% \\ 1.01 \\ \hline \end{array}$ | $\begin{array}{r} \$ 34.07 \\ \$ 1,000.29 \\ 3.41 \% \\ 1.01 \\ \hline \end{array}$ |  |  | \$1,105.85 3.42\% 1.03 | $\begin{array}{r} \$ 1,091.90 \\ 3.45 \% \\ 1.04 \\ \hline \end{array}$ | $\$ 38.10$ $\$ 1,097.62$ <br> 3.47\% <br> 1.06 | \$1,109.82 <br> 3.43\% <br> 1.07 |  | $\$ 36.38$ $\$ 1,083.85$ 3.36\% 1.05 | $\begin{array}{r} -\$ 0.28 \\ \$ 67.05 \\ -0.25 \% \\ 0.00 \\ \hline \end{array}$ | $\begin{gathered} -0.8 \% \\ 6.6 \% \end{gathered}$ |
| 44-45 | ```Retail trade: Ohio U.S. Ohio as percent of U.S. Concentration ratio - Ohio::U.S``` | $\begin{array}{r} \$ 32.49 \\ \$ 921.43 \\ 3.53 \% \\ 1.03 \\ \hline \end{array}$ | $\$ 31.41$ $\$ 880.98$ 3.57\% 1.06 | $\$ 31.65$ $\$ 901.12$ 3.51\% 1.05 | $\begin{array}{r} \$ 32.17 \\ \$ 903.25 \\ 3.56 \% \\ 1.05 \\ \hline \end{array}$ | $\$ 31.79$ $\$ 910.01$ 3.49\% 1.04 | $\begin{array}{r} \$ 33.05 \\ \$ 937.73 \\ 3.52 \% \end{array}$ | $\begin{array}{r} \$ 33.84 \\ \$ 955.11 \\ 3.54 \% \\ 1.04 \\ \hline \end{array}$ | $\begin{array}{r} \$ 35.20 \\ \$ 990.74 \\ 3.55 \% \\ 1.07 \\ \hline \end{array}$ | $\$ 35.92$ $\$ 1,027.57$ <br> 3.50\% <br> 1.06 | \$1,061.80 3.52\% 1.08 | $\$ 37.05$ $\$ 1,095.55$ 3.38\% 1.05 | $\begin{array}{r} \$ 37.80 \\ \$ 1,12.90 \\ 3.37 \% \\ 1.05 \end{array}$ | $\$ 36.90$ $\$ 1,090.50$ <br> 3.38\% <br> 1.05 | $\begin{array}{r} \$ 4.41 \\ \$ 169.07 \\ -0.14 \% \\ 0.03 \\ \hline \end{array}$ | $\begin{aligned} & \hline 13.6 \% \\ & 18.3 \% \end{aligned}$ |
| 61 | Educational srvcs ${ }^{\# \#}$ : Ohio U.S. <br> Ohio as percent of U.S. <br> Concentration ratio - Ohio::U.S. | $\begin{array}{r} \$ 5.62 \\ \$ 190.63 \\ 2.95 \% \\ 0.86 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.95 \\ \$ 205.89 \\ 2.89 \% \\ 0.86 \\ \hline \end{array}$ | $\begin{array}{r} \$ 6.04 \\ \$ 212.14 \\ 2.84 \% \\ 0.85 \\ \hline \end{array}$ | $\begin{array}{r} \$ 6.03 \\ \$ 213.68 \\ 2.82 \% \\ 0.83 \\ \hline \end{array}$ | $\$ 5.86$ $\$ 214.19$ 2.74\% | $\begin{array}{r} \$ 5.62 \\ \$ 210.66 \\ 2.67 \% \\ 0.79 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.59 \\ \$ 212.93 \\ 2.63 \% \end{array}$ | $\begin{array}{r} \$ 5.46 \\ \$ 214.67 \\ 2.54 \% \end{array}$ | $\begin{array}{r} \$ 5.53 \\ \$ 220.55 \\ 2.51 \% \end{array}$ | $\begin{array}{r} \$ 5.28 \\ \$ 217.36 \\ 2.43 \% \\ 0.74 \\ \hline \end{array}$ | $\begin{array}{r} \$ 5.26 \\ \$ 222.69 \\ 2.36 \% \\ 0.73 \\ \hline \end{array}$ | $\$ 5.31$ $\$ 228.86$ <br> 2.32\% | $\begin{array}{r} \$ 4.60 \\ \$ 203.03 \\ 2.27 \% \\ 0.71 \\ \hline \end{array}$ | $\begin{array}{r} \hline-\$ 1.02 \\ \$ 12.40 \\ -0.68 \% \\ -0.15 \\ \hline \end{array}$ | $\begin{array}{r} \hline-18.1 \% \\ 6.5 \% \end{array}$ |
| 81 | Other srvcs.: Ohio U.S. Ohio as percent of U.S. Concentration ratio - Ohio::U.S | $\begin{array}{r} \$ 12.07 \\ \$ 374.93 \\ 3.22 \% \\ 0.94 \end{array}$ | $\begin{array}{r} \$ 11.20 \\ \$ 352.48 \\ 3.18 \% \\ 0.95 \end{array}$ | $\begin{array}{r} \$ 11.01 \\ \$ 346.17 \\ 3.18 \% \\ 0.95 \\ \hline \end{array}$ | $\begin{array}{r} \$ 11.15 \\ \$ 343.32 \\ 3.25 \% \\ 0.95 \end{array}$ | $\$ 11.40$ <br> \$348.58 3.27\% $0.97$ | \$11.20 \$345.70 3.24\% 0.9 | $\begin{array}{r} \hline \$ 11.53 \\ \$ 355.71 \\ 3.24 \% \\ 0.96 \\ \hline \end{array}$ | $\begin{array}{r} \hline \$ 11.61 \\ \$ 357.72 \\ 3.25 \% \\ 0.98 \\ \hline \end{array}$ | \$11.46 <br> \$354.81 3.23\% 0.98 | $\begin{array}{r} \hline \$ 11.59 \\ \$ 357.03 \\ 3.25 \% \\ 0.99 \\ \hline \end{array}$ | \$11.86 \$368.81 3.22\% 1.00 | $\begin{array}{r} \$ 11.81 \\ \$ 3688.84 \\ 3.20 \% \\ 1.00 \end{array}$ | $\begin{array}{r} \hline \$ 10.35 \\ \$ 322.97 \\ 3.20 \% \\ 1.00 \end{array}$ | $\begin{array}{r} -\$ 1.72 \\ -\$ 51.96 \\ -0.02 \% \\ 0.06 \end{array}$ | -14.3\% |

Notes: ^ - a recession year for the nation as a whole; * - intial; prior years may have been revised
Source: U.S. BEA (2021). Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

Table A15: Ohio's GDP by Industry - Sorted by 2020 Concentration Ratio

|  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Notes: 1 - based on current dollars; 2 - based on chained dollars standardized on 2012; * excludes U.S. Postal Service (NAICS code 491); ;italicized - mildly concentrated in Ohio; bold - quite concentrated in Ohio. Abbreviations used: eqpt. - equipment; exc. - excluding; fc - federal civilian; fm - federal military; inc. - including; info. - information; mfg. - manufacturing; p-part; prcsng. - processing; sl - state \& local; srvcs. - services

Source: U.S. BEA (2021).
Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 2/22).

Table A16: Ohio's GDP by Industry - Sorted by Percentage Change, 2008-2020

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Notes: 1 - based on current dollars; 2 - based on chained dollars standardized on 2012; * excludes U.S. Postal Service (NAICS code 491); ; talicized - mildly concentrated in Ohio; bold - quite concentrated in Ohio. Abbreviations used: eqpt. - equipment; exc. - excluding; fc - federal civilian; fm - federal military; inc. - including; info. - information; mfg. - manufacturing; p-part; prcsng. - processing; sl - state \& local; srvcs. - services.

Source: U.S. BEA (2021).
Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 2/22).

Table A17: Ohio's GDP by Industry - Sorted by Size in 2020

| 2012 <br> NAICS <br> Codes | Industry Titles | $\begin{array}{r} \text { GDP } \\ 2020^{1} \\ \hline \end{array}$ | Percent Change `08- 20 & \[ \begin{gathered} \text { Concentra- } \\ \text { tion Ratio } \\ 2020^{1} \\ \hline \end{gathered} \] & \begin{tabular}{l} 2012 \\ NAICS \\ Codes \end{tabular} & Industry Titles & \[ \begin{array}{r} \text { GDP } \\ 2020^{1} \\ \hline \end{array} \] & Percent Change `08-‘20 | Concentration Ratio $2020{ }^{1}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11-92 | Total | \$677,561 | 9.83\% | 1.00 | 623 | Nursing \& residential care facilities | \$6,855 | -14.3\% | 1.36 |
|  |  |  |  |  | 3364-3369 | Other transportation eqpt. mfg. | \$6,325 | 1.3\% | 1.49 |
|  |  |  |  |  | 5411 | Legal services | \$6,090 | -29.6\% | 0.67 |
| 11-81* | Private industries | \$601,898 | 11.6\% | 1.02 | 326 | Plastics \& rubber products mfg. | \$5,949 | 14.3\% | 2.28 |
| 22, 42-81* | Private services-providing industries | \$462,529 | 13.2\% | 0.97 | 61 | Educational services | \$5,693 | -18.1\% | 0.70 |
| 11, 21, 23 \& 33 | Private goods-producing industries | \$139,369 | 7.0\% | 1.22 | 71 | Arts, entertainment \& recreation | \$5,688 | 3.5\% | 1.07 |
| 31-33 | Mfg. | \$105,303 | 0.0\% | 1.43 | 532-3 | Rental/leasing services \& lessors of nonfinancial intangible assets | \$5,351 | -18.2\% | 0.68 |
| 53 | Real estate \& rental \& leasing | \$77,313 | 2.7\% | 0.85 | 511 | Publishing industries (exc. Internet) | \$5,259 | 12.6\% | 0.51 |
| 52 | Finance \& insurance | \$76,445 | 45.8\% | 1.32 | 324 | Petroleum \& coal products mfg. | \$5,142 | 156.7\% | 1.39 |
| 92, 491 | Governments \& their enterprises | \$75,664 | -3.4\% | 0.87 | 487-88, 492 | Other transportation \& support activities | \$5,081 | -6.6\% | 1.09 |
| 531 | Real estate | \$71,962 | 5.2\% | 0.87 | 523 | Securities, commodity contracts, other financial investments, etc. | \$4,963 | 128.6\% | 0.45 |
| 62 | Health care \& social assistance | \$58,655 | 12.0\% | 1.17 | 335 | Electrical eqpt., appliance \& component mfg. | \$4,841 | -11.3\% | 2.35 |
| 92s1 | State \& local governments | \$58,058 | -6.8\% | 0.98 | 92811 (fm) | Federal, military | \$4,789 | 0.6\% | 0.43 |
| 321, 327-39 | Durable goods mfg. | \$57,594 | -10.8\% | 1.40 | 331 | Primary metal mfg. | \$4,761 | 25.1\% | 2.52 |
| 311-6, 322-6 | Nondurable goods mfg. | \$47,709 | 20.7\% | 1.47 | 327 | Nonmetallic mineral product mfg. | \$4,248 | 11.0\% | 1.96 |
| 42 | Wholesale trade | \$41,728 | -0.8\% | 1.03 | 493 | Warehousing \& storage | \$4,107 | 83.8\% | 1.59 |
| 521-2 | Monetary authorities, credit intermediation, etc. | \$41,290 | 19.6\% | 1.63 | 624 | Social assistance | \$4,085 | -1.7\% | 0.89 |
| 44-45 | Retail trade | \$40,682 | 13.6\% | 1.04 | 21 | Mining, quarrying \& oil \& gas extraction | \$4,066 | 216.0\% | 0.69 |
| 54 | Professional, scientific \& technical services | \$35,484 | 14.7\% | 0.67 | 11 | Agriculture, forestry, fishing \& hunting | \$3,915 | 74.3\% | 0.69 |
| 524 | Insurance carriers \& related activities | \$29,975 | 73.2\% | 1.44 | 518, 519 | Data processing, hosting \& other information services | \$3,401 | 111.1\% | 0.33 |
| 23 | Construction | \$26,084 | 5.9\% | 0.90 | 111-12 | Farms | \$3,359 | 83.7\% | 0.77 |
| 621 | Ambulatory health care services | \$25,179 | 24.4\% | 1.05 | 713 | Amusement, gambling \& recreation industries | \$3,202 | -0.2\% | 1.37 |
| 55 | Mgt. of companies \& enterprises | \$22,808 | 62.9\% | 1.71 | 334 | Computer \& electronic product mfg. | \$2,730 | 6.2\% | 0.27 |
| 622 | Hospitals | \$22,537 | 11.0\% | 1.35 | 339 | Miscellaneous mfg. | \$2,728 | 16.6\% | 0.84 |
| 48-49 | Transportation \& warehousing | \$22,116 | 9.7\% | 1.19 | 211 | Oil \& gas extraction | \$2,573 | 970.6\% | 0.81 |
| 5412-4, 5416-9 | Other professional, scientific \& technical services | \$21,397 | 14.1\% | 0.67 | 711-2 | Performing arts, spectator sports, museums \& related activities | \$2,486 | 8.4\% | 0.84 |
| 56 | Administrative/support \& waste mgt./remediation services | \$20,043 | 5.8\% | 0.95 | 562 | Waste mgt. \& remediation services | \$2,387 | 26.1\% | 1.23 |
| 325 | Chemical mfg. | \$19,541 | 20.4\% | 1.53 | 322 | Paper mfg. | \$2,353 | -8.3\% | 1.21 |
| 561 | Administrative \& support services | \$17,656 | 4.0\% | 0.92 | 323 | Printing \& related support activities | \$1,809 | -21.8\% | 1.41 |
| 92fc, fm, 491 | Federal total | \$17,606 | 9.6\% | 0.64 | 481 | Air transportation | \$1,681 | -11.9\% | 0.89 |
| 336 | Transportation eqpt. | \$17,191 | -7.8\% | 1.86 | 486 | Pipeline transportation | \$1,614 | 238.6\% | 1.21 |
| 51 | Information | \$17,117 | 27.6\% | 0.45 | 721 | Accommodation | \$1,550 | -18.9\% | 0.41 |
| 72 | Accommodation \& food services | \$14,424 | -10.8\% | 0.87 | 321 | Wood product mfg. | \$1,363 | 11.9\% | 0.99 |
| 81 | Other services (exc. governments \& their enterprises) | \$13,429 | -14.3\% | 0.99 | 482 | Rail transportation | \$1,261 | -29.8\% | 1.04 |
| 722 | Food services \& drinking places | \$12,874 | -9.8\% | 1.01 | 337 | Furniture \& related product mfg. | \$1,146 | -24.5\% | 1.12 |
| 92fc, 491 | Federal, civilian | \$12,817 | 13.4\% | 0.78 | 212 | Mining (exc. oil \& gas) | \$1,078 | -28.2\% | 0.59 |
| 311-12 | Food, beverage \& tobacco products mfg. | \$12,322 | 5.1\% | 1.31 | 113-15 | Forestry, fishing \& related activities | \$556 | 41.2\% | 0.43 |
| 22 | Utilities | \$10,907 | 4.3\% | 0.98 | 485 | Transit \& ground passenger transportation | \$446 | -18.7\% | 0.37 |
| 3361-3363 | Motor vehicles, bodies, trailers \& parts mfg. | \$10,867 | -12.4\% | 2.17 | 213 | Support activities for mining | \$416 | -33.2\% | 0.46 |
| 332 | Fabricated metal product mfg. | \$10,154 | -36.4\% | 2.15 | 313-14 | Textile mills \& textile product mills | \$369 | -17.9\% | 0.74 |
| 333 | Machinery mfg. | \$8,433 | -14.0\% | 1.65 | 512 | Motion picture \& sound recording industries | \$258 | -26.3\% | 0.11 |
| 515, 517 | Broadcasting (exc. Internet) \& telecommunications | \$8,199 | 20.4\% | 0.55 | 315-16 | Apparel, leather \& allied product mfg. | \$225 | -5.8\% | 0.71 |
| 5415 | Computer systems design \& related services | \$7,997 | 70.2\% | 0.67 | 525 | Funds, trusts, \& other financial vehicles | \$216 | -40.0\% | 0.26 |
| 484 | Truck transportation | \$7,821 | -0.6\% | 1.46 | 483 | Water transportation | \$106 | 0.2\% | 0.34 |

Notes: 1 - based on current dollars; 2 - based on chained dollars standardized on 2012; * excludes U.S. Postal Service (NAICS code 491); italicized - mildly concentrated in Ohio; bold - quite concentrated in Ohio. Abbreviations used: eqpt. - equipment; exc. - excluding; fc - federal civilian; fm - federal military; inc. - including; info. - information; mfg. - manufacturing; p-part; prcsng. - processing; sl - state \& local; srvcs. - services.

Source: U.S. BEA (2021).
Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 2/22).

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Comparing U.S. Percentages of Manufacturing
Value-Added and GDP from Ohio, 2019


Sources: U.S. BEA and U.S. Census Bureau

Table A18: Value-Added and GDP in Manufacturing Industries in Ohio and the U.S., 2019

| NAICS <br> Codes* | Industry Title | Value Added (millions) |  |  | GDP (millions) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ohio as |  |  | Ohio | U.S. | Ohio as <br> Percent of U.S. |
|  |  |  |  | Percent |  |  |  |
|  |  | Ohio | U.S. |  |  |  |  |
| 321 | Wood products | \$1,290 | \$46,081 | 2.80\% | \$1,191 | \$41,243 | 2.89\% |
| 327 | Nonmetallic mineral products | \$4,704 | \$74,122 | 6.35\% | \$3,737 | \$64,968 | 5.75\% |
| 331 | Primary metals | \$7,521 | \$85,369 | 8.81\% | \$5,961 | \$64,220 | 9.28\% |
| 332 | Fabricated metal products | \$15,610 | \$206,344 | 7.57\% | \$11,756 | \$161,184 | 7.29\% |
| 333 | Machinery | \$11,176 | \$192,009 | 5.82\% | \$9,909 | \$162,609 | 6.09\% |
| 334 | Computer \& electronic products | \$3,954 | \$180,471 | 2.19\% | \$2,530 | \$303,924 | 0.83\% |
| 335 | Electrical eqpt., appliances, \& components | \$5,110 | \$65,763 | 7.77\% | \$4,692 | \$65,879 | 7.12\% |
| 3361-3 | Transportation eqpt. (motor vehicles) | \$14,909 | \$180,621 | 8.25\% | \$11,969 | \$164,006 | 7.30\% |
| 3364-9 | Transportation eqpt. (all other types) | \$4,522 | \$180,817 | 2.50\% | \$7,573 | \$164,847 | 4.59\% |
| 337 | Furniture \& related products | \$1,201 | \$42,192 | 2.85\% | \$1,139 | \$31,151 | 3.65\% |
| 339 | Miscellaneous | \$3,537 | \$98,452 | 3.59\% | \$2,462 | \$96,736 | 2.55\% |
| 311-2 | Food, beverage \& tobacco products^ | \$16,322 | \$411,274 | 3.97\% | \$11,579 | \$265,007 | 4.37\% |
| 313-4 | Textile \& textile product mills | \$464 | \$22,901 | 2.03\% | \$344 | \$17,242 | 1.99\% |
| 315-6 | Apparel, leather \& allied products | \$146 | \$7,731 | 1.89\% | \$180 | \$9,304 | 1.93\% |
| 322 | Paper | \$3,015 | \$190,415 | 1.58\% | \$2,394 | \$61,217 | 3.91\% |
| 323 | Printing \& related support activities | \$2,514 | \$81,225 | 3.10\% | \$2,058 | \$40,286 | 5.11\% |
| 324 | Petroleum \& coal products | \$7,132 | \$595,704 | 1.20\% | \$7,326 | \$158,066 | 4.64\% |
| 325 | Chemicals | \$18,224 | \$720,178 | 2.53\% | \$19,374 | \$390,784 | 4.96\% |
| 326 | Plastic \& rubber products | \$9,773 | \$246,580 | 3.96\% | \$5,938 | \$83,174 | 7.14\% |

Notes: * - The Value Added figures use the 2017 NAICS; GDP figures use the 2012 NAICS; ^ - the amount of tobacco products manufactured in Ohio is nil or non-existent, depending on the sources used.

Sources: U.S. Bureau of the Census (2021), U.S. BEA (2021).
Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 4/21).

Table A19: Value-Added in Manufacturing by Industry in Ohio and the U.S., 2019

| 2017 | Industry Title | Value Added (millions) |  | Ohio as Percent | Con-centrated |
| :---: | :---: | :---: | :---: | :---: | :---: |
| NAICS |  |  |  |  |  |
| Code |  | Ohio | U.S. | of U.S. | in Ohio |
| 31-33 | All manufacturing | \$131,125.2 | \$2,579,381.8 | 5.08\% | * |
| 32p-33 | Durable Goods | \$73,535.1 | \$1,352,240.7 | 5.44\% |  |
| 321 | Wood products | \$1,290.2 | \$46,081.4 | 2.80\% |  |
| 3211 | Sawmills \& wood preservation | \$171.8 | \$11,101.7 | 1.55\% |  |
| 3212 | Veneer, plywood, \& engineered wood products | \$221.7 | \$9,677.4 | 2.29\% |  |
| 3219 | Other wood products | \$896.7 | \$25,302.3 | 3.54\% |  |
| 327 | Nonmetallic mineral products | \$4,703.9 | \$74,122.3 | 6.35\% | * |
| 3271 | Clay \& refractory products | \$699.3 | \$5,339.4 | 13.10\% |  |
| 3272 | Glass \& glass products | \$1,329.1 | \$16,674.9 | 7.97\% | * |
| 3273 | Cement \& concrete products | \$1,111.2 | \$33,069.7 | 3.36\% |  |
| 3274 | Lime \& gypsum products | \$123.5 | \$4,210.1 | 2.93\% |  |
| 3279 | Other nonmetallic mineral products | \$1,440.8 | \$14,828.2 | 9.72\% | * |
| 331 | Primary metals | \$7,520.8 | \$85,368.9 | 8.81\% | * |
| 3311 | Iron \& steel mills \& ferroalloys | \$2,889.9 | \$29,969.5 | 9.64\% | * |
| 3312 | Steel products from purchased steel | \$1,288.9 | \$9,434.5 | 13.66\% | * |
| 3313 | Alumina \& aluminum products \& processing | \$727.7 | \$13,382.8 | 5.44\% | * |
| 3314 | Nonferrous metal (exc. aluminum) products \& processing | \$615.4 | \$16,004.0 | 3.85\% |  |
| 3315 | Foundries | \$1,998.9 | \$16,578.1 | 12.06\% | * |
| 332 | Fabricated metal products | \$15,610.0 | \$206,343.6 | 7.57\% | * |
| 3321 | Forging \& stamping | \$2,068.9 | \$15,336.0 | 13.49\% | * |
| 3322 | Cutlery \& handtools | \$652.2 | \$6,338.6 | 10.29\% | * |
| 3323 | Architectural \& structural metals | \$2,479.6 | \$51,780.1 | 4.79\% | * |
| 3324 | Boilers, tanks, \& shipping containers | \$1,485.1 | \$16,195.9 | 9.17\% | * |
| 3325 | Hardware | \$463.8 | \$5,203.0 | 8.91\% | * |
| 3326 | Spring \& wire products | \$367.5 | \$5,147.9 | 7.14\% | * |

Table A19: Value-Added in Manufacturing by Industry in Ohio and the U.S., 2019

| 2017 | Industry Title | Value Added (millions) |  | Ohio as Percent of U.S. | Con-centrated in Ohio |
| :---: | :---: | :---: | :---: | :---: | :---: |
| NAICS |  |  |  |  |  |
| Code |  | Ohio | U.S. |  |  |
| \|3327 | Machine shops; turned products; \& screws, nuts, \& bolts | \$3,822.0 | \$45,098.6 | 8.47\% | * |
| 3328 | Coating, engraving, heat treating, \& allied activities | \$2,043.9 | \$17,367.4 | 11.77\% |  |
| 3329 | Other fabricated metal products | \$2,226.9 | \$43,876.2 | 5.08\% |  |
| 333 | Machinery | \$11,176.1 | \$192,009.3 | 5.82\% | * |
| 3331 | Agriculture, construction, \& mining machinery | \$818.4 | \$38,571.5 | 2.12\% |  |
| 3332 | Industrial machinery | \$1,387.9 | \$19,450.8 | 7.14\% |  |
| 3333 | Commercial \& service industry machinery | \$512.0 | \$14,472.3 | 3.54\% |  |
| 3334 | Ventilation, heating, air-conditioning, \& commercial refrigeration eqpt. | \$1,100.1 | \$23,589.6 | 4.66\% |  |
| 3335 | Metalworking machinery | \$1,908.8 | \$19,486.5 | 9.80\% |  |
| 3336 | Engine, turbine, \& power transmission eqpt. | \$925.6 | \$20,908.2 | 4.43\% |  |
| 3339 | Other general purpose machinery | \$4,523.3 | \$55,530.4 | 8.15\% |  |
| 334 | Computer \& electronic products | \$3,954.2 | \$180,470.7 | 2.19\% |  |
| 3341 | Computer \& peripheral eqpt. | \$87.8 | \$9,648.3 | 0.91\% |  |
| 3342 | Communications eqpt. | \$179.2 | \$19,376.4 | 0.92\% |  |
| 3343 | Audio \& video eqpt. | \$27.9 | \$1,868.5 | 1.50\% |  |
| 3344 | Semiconductors \& other electronic components | \$984.7 | \$52,579.4 | 1.87\% |  |
| 3345 | Navigational, measuring, electromedical, \& control instruments | \$2,598.8 | \$96,224.9 | 2.70\% |  |
| 3346 | Mfg. \& reproducing magnetic \& optical media | \$75.7 | \$773.3 | 9.79\% | * |
| 335 | Electrical eqpt., appliances, \& components | \$5,110.4 | \$65,762.8 | 7.77\% | * |
| 3351 | Electric lighting eqpt. | n.a. | \$7,608.1 | n.a. |  |
| 3352 | Household appliances | n.a. | \$11,444.8 | n.a. |  |
| 3353 | Electrical eqpt. | n.a. | \$20,231.5 | n.a. |  |
| 3359 | Other electrical eqpt. \& components | n.a. | \$26,478.4 | n.a. |  |
| 336 | Transportation eqpt. | \$19,431.0 | \$361,438.5 | 5.38\% | * |
| \|3361 | Motor vehicles | \$4,012.5 | \$79,182.9 | 5.07\% | * |

Table A19: Value-Added in Manufacturing by Industry in Ohio and the U.S., 2019

| 2017 | Industry Title | Value Added (millions) |  | Ohio as Percent | Con-centrated |
| :---: | :---: | :---: | :---: | :---: | :---: |
| NAICS |  |  |  |  |  |
| Code |  | Ohio | U.S. | of U.S. | in Ohio |
| \|3362 |  | Motor vehicle bodies \& trailers | \$848.6 | \$17,527.1 | 4.84\% | * |
| 3363 | Motor vehicle parts | \$10,047.5 | \$83,911.1 | 11.97\% | * |
| 3364 | Aerospace products \& parts | \$3,941.3 | \$148,583.2 | 2.65\% |  |
| 3365 | Railroad rolling stock | \$40.4 | \$3,805.7 | 1.06\% |  |
| 3366 | Ship \& boat building | \$19.2 | \$19,950.4 | 0.10\% |  |
| 3369 | Other transportation eqpt. | \$521.4 | \$8,478.0 | 6.15\% | * |
| 337 | Furniture \& related products | \$1,201.2 | \$42,191.7 | 2.85\% |  |
| 3371 | Household \& institutional furniture \& kitchen cabinets | \$718.8 | \$20,703.9 | 3.47\% |  |
| 3372 | Office furniture (inc. fixtures) | \$382.6 | \$16,649.3 | 2.30\% |  |
| 3379 | Other furniture related products | \$99.8 | \$4,838.6 | 2.06\% |  |
| 339 | Miscellaneous | \$3,537.4 | \$98,451.6 | 3.59\% |  |
| 3391 | Medical eqpt. \& supplies | \$1,781.3 | \$61,585.0 | 2.89\% |  |
| 3399 | Other miscellaneous | \$1,756.1 | \$36,866.6 | 4.76\% | * |
| 31-32p | Non-durable goods | \$57,590.2 | \$2,276,006.8 | 2.53\% |  |
| 311 | Food | \$14,130.0 | \$313,412.7 | 4.51\% | * |
| 3111 | Animal food | \$894.4 | \$20,957.4 | 4.27\% | * |
| 3112 | Grain \& oilseed milling | \$841.1 | \$22,705.7 | 3.70\% |  |
| 3113 | Sugar \& confectionery products | \$195.0 | \$17,198.5 | 1.13\% |  |
| 3114 | Fruit \& vegetable preserving \& specialty foods | \$3,577.0 | \$34,211.0 | 10.46\% | * |
| 3115 | Dairy products | \$1,816.1 | \$40,220.1 | 4.52\% | * |
| 3116 | Animal slaughtering \& processing | \$1,516.5 | \$69,018.8 | 2.20\% |  |
| 3117 | Seafood products preparation \& packaging | \$0.0 | \$4,994.3 | 0.00\% |  |
| 3118 | Bakeries \& tortilla | \$1,387.3 | \$41,866.3 | 3.31\% |  |
| 3119 | Other foods | \$3,902.6 | \$62,240.7 | 6.27\% | * |
| 312 | Beverage \& tobacco products | \$2,192.0 | \$97,861.2 | 2.24\% |  |

Table A19: Value-Added in Manufacturing by Industry in Ohio and the U.S., 2019

| 2017 | Industry Title | Value Added (millions) |  | Ohio as Percent | Con-centrated in Ohio |
| :---: | :---: | :---: | :---: | :---: | :---: |
| NAICS |  |  |  |  |  |
| Code |  | Ohio | U.S. |  |  |
| 3121 | Beverages | n.a. | \$58,347.2 | n.a. |  |
| 3122 | Tobacco products^ | n.a. | \$39,514.0 | n.a. |  |
| 313 | Textile mills | \$87.6 | \$11,683.9 | 0.75\% |  |
| 3131 | Fiber, yarn, \& thread mills | \$0.8 | \$2,093.8 | 0.04\% |  |
| 3132 | Fabric mills | \$41.6 | \$6,471.2 | 0.64\% |  |
| 3133 | Textile \& fabric finishing \& fabric coating mills | \$45.2 | \$3,118.9 | 1.45\% |  |
| 314 | Textile products mills | \$376.5 | \$11,217.0 | 3.36\% |  |
| 3141 | Textile furnishings mills | \$231.3 | \$5,598.9 | 4.13\% | * |
| 3149 | Other textile products mills | \$145.2 | \$5,618.1 | 2.59\% |  |
| 315 | Apparel | \$40.0 | \$5,615.5 | 0.71\% |  |
| 3151 | Apparel knitting mills | n.a. | \$541.8 | n.a. |  |
| 3152 | Cut \& sew apparel | n.a. | \$4,495.7 | n.a. |  |
| 3159 | Apparel accessories \& other apparel | n.a. | \$578.0 | n.a. |  |
| 316 | Leather \& allied products | \$105.8 | \$2,115.4 | 5.00\% | * |
| 3161 | Leather \& hide tanning \& finishing | n.a. | \$394.0 | n.a. |  |
| 3162 | Footwear | n.a. | \$843.1 | n.a. |  |
| 3169 | Other leather \& allied products | \$94.1 | \$878.3 | 10.72\% | * |
| 322 | Paper | \$3,014.9 | \$190,414.6 | 1.58\% |  |
| 3221 | Pulp, paper, \& paperboard mills | n.a. | \$76,297.0 | n.a. |  |
| 3222 | Converted paper products | n.a. | \$114,117.6 | n.a. |  |
| 323 | Printing \& related support activities | \$2,514.3 | \$81,224.8 | 3.10\% |  |
| 32311 | Printing | n.a. | n.a. | n.a. |  |
| 32312 | Support activities for printing | n.a. | n.a. | n.a. |  |
| 324 | Petroleum \& coal products | \$7,131.8 | \$595,704.4 | 1.20\% |  |
| 32411 | Petroleum refineries | n.a. | n.a. | n.a. |  |

Table A19: Value-Added in Manufacturing by Industry in Ohio and the U.S., 2019

| 2017 | Industry Title | Value Added (millions) |  | Ohio as Percent | Con-centrated in Ohio |
| :---: | :---: | :---: | :---: | :---: | :---: |
| NAICS |  |  |  |  |  |
| Code |  | Ohio | U.S. | of U.S. |  |
| \|32412 | Asphalt paving, roofing \& saturated materials | n.a. | n.a. | n.a. |  |
| 32419 | Other petroleum \& coal products | n.a. | n.a. | n.a. |  |
| 325 | Chemicals | \$18,224.3 | \$720,177.6 | 2.53\% |  |
| 3251 | Basic chemicals | \$2,740.4 | \$206,315.5 | 1.33\% |  |
| 3252 | Resin, synthetic rubber, \& artificial synthetic fibers \& filaments | \$1,677.4 | \$95,740.5 | 1.75\% |  |
| 3253 | Pesticide, fertilizer, \& other agricultural chemicals | \$613.7 | \$31,464.5 | 1.95\% |  |
| 3254 | Pharmaceuticals \& medicines | \$1,885.4 | \$210,743.5 | 0.89\% |  |
| 3255 | Paints, coatings \& adhesives | \$2,889.2 | \$41,984.0 | 6.88\% | * |
| 3256 | Soaps, cleaning compounds \& toilet preparations | \$7,407.5 | \$89,253.8 | 8.30\% | * |
| 3259 | Other chemical products \& preparations | \$1,010.7 | \$44,675.8 | 2.26\% |  |
| 326 | Plastic \& rubber products | \$9,773.0 | \$246,579.6 | 3.96\% |  |
| 3261 | Plastics products | \$7,717.1 | \$201,195.4 | 3.84\% |  |
| 3262 | Rubber products | \$2,055.9 | \$45,384.2 | 4.53\% | * |

Notes: * - Concentrated in Ohio with at least $4.00 \%$ of the U.S. total; ${ }^{\wedge}$ - the amount of tobacco products manufactured in Ohio is nil or non-existent, depending on the source; eqpt. - equipment;exc. - except; inc. - including; n.a. - not available.

Source: U.S. Census Bureau (2021).
Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 4/21).

The Association of GDP and CBP Concentration Ratios in Ohio, 2019


Table A20: Ohio::U.S. GDP and County Business Patterns Concentration Ratios
(GDP in millions of current dollars, except concentration ratio)

| NAICS Codes | Industry Titles | 2019 GDP^ |  |  | 2019 CBP Employment ${ }^{\sim}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | (current, in millions) |  | Ohio::U.S. Concentration Ratio* | Ohio | Ohio::U.S. ConcentraU.S. tion Ratio* |  |
|  |  | Ohio | $\begin{aligned} & \text { done } \\ & \text { U.S. } \end{aligned}$ |  |  |  |  |
| 11-81 | Private industries* | \$691,199 | \$21,252,219 | 1.00 | 4,916,956 | 132,989,428 | 1.00 |
| 113-5 | Forestry, fishing \& related activities | \$525 | \$39,293 | 0.41 | 1,278 | 164,567 | 0.21 |
| 211 | Oil \& gas extraction | \$9,208 | \$193,101 | 1.47 | 1,696 | 108,128 | 0.42 |
| 212 | Mining, exc. oil \& gas | \$977 | \$60,842 | 0.49 | 4,934 | 177,656 | 0.75 |
| 213 | Support activities for mining | \$817 | \$55,526 | 0.45 | 4,970 | 340,956 | 0.39 |
| 23 | Construction | \$26,705 | \$892,684 | 0.92 | 201,697 | 7,043,901 | 0.77 |
| 321 | Wood products mfg. | \$1,191 | \$41,243 | 0.89 | 12,476 | 415,757 | 0.81 |
| 327 | Nonmetallic mineral products mfg. | \$3,737 | \$64,968 | 1.77 | 25,906 | 402,095 | 1.74 |
| 331 | Primary metals mfg. | \$5,961 | \$64,220 | 2.85 | 40,297 | 385,544 | 2.83 |
| 332 | Fabricated metal products mfg. | \$11,756 | \$161,184 | 2.24 | 103,672 | 1,466,779 | 1.91 |
| 333 | Machinery mfg. | \$9,909 | \$162,609 | 1.87 | 75,868 | 1,079,338 | 1.90 |
| 334 | Computer \& electronic products mfg. | \$2,530 | \$303,924 | 0.26 | 23,561 | 794,764 | 0.80 |
| 335 | Electrical equipment \& appliances mfg. | \$4,692 | \$65,879 | 2.19 | 23,490 | 349,329 | 1.82 |
| 3361-3 | Motor vehicles, bodies, trailers \& parts mfg. | \$11,969 | \$164,006 | 2.24 | 105,399 | 1,016,650 | 2.80 |
| 3364-9 | Other transportation equipment mfg. | \$7,573 | \$164,847 | 1.41 | 16,942 | 624,287 | 0.73 |
| 337 | Furniture \& related products mfg. | \$1,139 | \$31,151 | 1.12 | 12,947 | 367,408 | 0.95 |
| 339 | Miscellaneous mfg. | \$2,462 | \$96,736 | 0.78 | 23,542 | 553,452 | 1.15 |
| 311-2 | Food, beverage \& tobacco products | \$11,579 | \$265,007 | 1.34 | 62,443 | 1,850,155 | 0.91 |
| 313-4 | Textile \& textile product mills mfg. | \$344 | \$17,242 | 0.61 | 3,995 | 199,310 | 0.54 |
| 315-6 | Apparel, leather \& allied products | \$180 | \$9,304 | 0.59 | 1,938 | 107,038 | 0.49 |
| 322 | Paper mfg. | \$2,394 | \$61,217 | 1.20 | 18,149 | 347,386 | 1.41 |
| 323 | Printing \& related support activities | \$2,058 | \$40,286 | 1.57 | 23,038 | 429,253 | 1.45 |
| 324 | Petroleum \& coal products mfg. | \$7,326 | \$158,066 | 1.43 | 5,587 | 107,509 | 1.41 |
| 325 | Chemical mfg. | \$19,374 | \$390,784 | 1.52 | 42,760 | 817,229 | 1.42 |
| 326 | Plastics \& rubber products mfg. | \$5,938 | \$83,174 | 2.20 | 66,940 | 796,520 | 2.27 |
| 22 | Utilities | \$11,056 | \$335,264 | 1.01 | 23,181 | 641,700 | 0.98 |
| 42 | Wholesale trade | \$43,798 | \$1,262,290 | 1.07 | 236,265 | 6,181,224 | 1.03 |
| 44-45 | Retail trade | \$39,445 | \$1,162,239 | 1.04 | 556,445 | 15,693,290 | 0.96 |
| 481 | Air transportation | \$2,534 | \$147,066 | 0.53 | 10,873 | 501,344 | 0.59 |
| 483 | Water transportation | \$155 | \$15,037 | 0.32 | 548 | 62,183 | 0.24 |
| 484 | Truck transportation | \$8,193 | \$174,974 | 1.44 | 68,292 | 1,581,947 | 1.17 |
| 485 | Transit \& ground passenger transportation | \$659 | \$55,277 | 0.37 | 10,428 | 511,843 | 0.55 |
| 486 | Pipeline transportation | \$1,599 | \$50,534 | 0.97 | 2,161 | 47,189 | 1.24 |
| 487-8, 492 | Other transportation \& support activities | \$4,570 | \$133,814 | 1.05 | 59,106 | 1,682,418 | 0.95 |
| 493 | Warehousing \& storage | \$3,722 | \$75,027 | 1.53 | 55,247 | 1,021,448 | 1.46 |
| 511 | Publishing (inc. sofware, exc. Internet) | \$5,443 | \$303,226 | 0.55 | 35,841 | 1,010,819 | 0.96 |
| 512 | Motion pictures \& sound recordings | \$508 | \$87,863 | 0.18 | 4,864 | 328,152 | 0.40 |
| 515, 517 | Broadcasting \& telecommunications | \$8,742 | \$466,648 | 0.58 | 38,467 | 1,343,505 | 0.77 |

Table A20: Ohio::U.S. GDP and County Business Patterns Concentration Ratios
(GDP in millions of current dollars, except concentration ratio)

| NAICS Codes | Industry Titles | 2019 GDP^ |  |  | 2019 CBP Employment ${ }^{\text {² }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | (current, in millions) |  | Ohio::U.S. Concentration Ratio* | Ohio | Ohio::U.S.Concentra-U.S. tion Ratio* |  |
|  |  | Ohio | U.S. |  |  |  |  |
| 518, 519 | Data prcsng., hosting, other info. (inc. Internet) | \$3,204 | \$269,789 | 0.37 | 20,011 | 889,876 | 0.61 |
| 521-2 | Federal Reserve, credit intermediation, \& related srvcs. | \$32,138 | \$708,906 | 1.39 | 117,944 | 2,888,533 | 1.10 |
| 523 | Securities, commodity contracts, investments | \$4,620 | \$312,481 | 0.45 | 18,044 | 927,216 | 0.53 |
| 524 | Insurance carriers \& related activities | \$31,881 | \$615,010 | 1.59 | 122,778 | 2,729,762 | 1.22 |
| 525 | Funds, trusts \& other financial vehicles | \$201 | \$29,401 | 0.21 | 50 | 7,655 | 0.18 |
| 531 | Real estate | \$68,664 | \$2,614,208 | 0.81 | 46,326 | 1,676,886 | 0.75 |
| 532-3 | Rental \& leasing srvcs., leasing intangible assets | \$6,622 | \$261,778 | 0.78 | 18,173 | 563,262 | 0.87 |
| 5411 | Legal srvcs. | \$6,051 | \$279,455 | 0.67 | 31,191 | 1,149,095 | 0.73 |
| 5415 | Computer systems design \& related srvcs. | \$8,810 | \$376,767 | 0.72 | 46,565 | 1,924,248 | 0.65 |
| 5412-4, 6-9 | Other professional, scientific \& technical srvcs. | \$22,208 | \$982,209 | 0.70 | 186,373 | 6,211,148 | 0.81 |
| 55 | Management of companies \& enterprises | \$22,414 | \$411,364 | 1.68 | 151,456 | 3,523,278 | 1.16 |
| 561 | Administrative \& support srvcs. | \$18,404 | \$598,408 | 0.95 | 388,741 | 12,203,451 | 0.86 |
| 562 | Waste management \& remediation srvcs. | \$2,602 | \$62,527 | 1.28 | 17,399 | 438,566 | 1.07 |
| 61 | Educational srvcs. | \$6,124 | \$269,858 | 0.70 | 113,913 | 3,808,801 | 0.81 |
| 621 | Ambulatory health care srvcs. | \$26,481 | \$778,813 | 1.05 | 302,961 | 7,820,262 | 1.05 |
| 622 | Hospitals | \$22,852 | \$514,557 | 1.37 | 274,622 | 6,078,477 | 1.22 |
| 623 | Nursing \& residential care facilities | \$7,059 | \$158,033 | 1.37 | 161,772 | 3,538,496 | 1.24 |
| 624 | Social assistance | \$4,369 | \$144,158 | 0.93 | 126,760 | 3,427,575 | 1.00 |
| 711-2 | Performing arts, museums \& related activities | \$3,443 | \$143,552 | 0.74 | 25,678 | 703,081 | 0.99 |
| 713 | Amusements, gambling \& recreation | \$4,248 | \$95,062 | 1.37 | 55,291 | 1,801,314 | 0.83 |
| 721 | Accommodation | \$2,359 | \$186,992 | 0.39 | 34,859 | 2,161,388 | 0.44 |
| 722 | Food srvcs. \& drinking places | \$15,404 | \$481,600 | 0.98 | 447,423 | 12,330,989 | 0.98 |
| 81 | Other srvcs., exc. government | \$14,862 | \$461,262 | 0.99 | 203,128 | 5,619,240 | 0.98 |

Notes: ^ - includes the self-employed with no employees; industry figures sum to within rounding error of the totals; * - figures exclude farms, rail transportation and government services; ~ all County Business Patterns (CBP) figures should be regarded as estimates of the number of employees, and relatively tiny percentages could not be classified in any industry; therefore, components will not sum to the total.

Abbreviations used: exc. - except; inc. including; info. - information; mfg. - manufacturing; prcsng. - processing; srvcs. - services.
Sources: U.S. Bureau of the Census (2021b), U.S. BEA (2021).
Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 4/21).

Table A21: Group or Sub-group Employment Concentration Ratios Based on 2019 CBP Employment*

| 2017 <br> NAICS <br> Code | Industry Titles | Ohio::U.S.  <br> Ohio Concentra- <br> tion Ratio |  |  |
| :---: | :---: | :---: | :---: | :---: |
| ------ | Total (exc. farms, railroads \& government) | 4,916,956 | 132,989,428 | 1.00 |
|  | Goods producing groups (exc. farms) |  |  |  |
| 1131 | Timber tract operations | 11 | 3,647 | 0.08 |
| 1132 | Forest nurseries \& gathering forest products | 15 | 1,008 | 0.40 |
| 1133 | Logging | 350 | 47,273 | 0.20 |
| 1141 | Fishing | 12 | 5,637 | 0.06 |
| 1142 | Hunting \& trapping | 37 | 1,679 | 0.60 |
| 1151 | Crop production support activities | 300 | 70,902 | 0.11 |
| 1152 | Animal production support activities | 531 | 21,416 | 0.67 |
| 1153 | Forestry support activities | 22 | 13,005 | 0.05 |
| 21112 | Crude petroleum | 739 | 75,596 | 0.26 |
| 21113 | Natual gas | 957 | 32,532 | 0.80 |
| 2121 | Coal mining | 1,780 | 50,288 | 0.96 |
| 2122 | Metal ore mining | 0 | 37,671 | 0.00 |
| 2123 | Nonmetallic mineral mining \& quarrying | 3,154 | 89,697 | 0.95 |
| 213111 | Drilling oil \& gas wells | 1,697 | 69,820 | 0.66 |
| 213112 | Supporting oil \& gas operations | 3,081 | 259,480 | 0.32 |
| 213113 | Supporting coal mining | 74 | 4,734 | 0.42 |
| 213114 | Supporting metal mining | 20 | 3,810 | 0.14 |
| 213115 | Supporting non-metallic minerals | 98 | 3,112 | 0.85 |
| 2361 | Residential building construction | 17,740 | 753,227 | 0.64 |
| 2362 | Nonresidential building construction | 25,157 | 698,677 | 0.97 |
| 2371 | Utility system construction | 14,054 | 640,400 | 0.59 |
| 2372 | Land subdivision | 458 | 21,718 | 0.57 |

Table A21: Group or Sub-group Employment Concentration Ratios Based on 2019 CBP Employment*

| 2017 |  |  |  | Ohio::U.S. <br> Concentra- <br> NAICS <br> Code |
| :--- | :--- | ---: | ---: | ---: |
|  | Industry Titles | Ohio | U.S. |  |
| tion Ratio |  |  |  |  |

Table A21: Group or Sub-group Employment Concentration Ratios Based on 2019 CBP Employment*

| 2017 <br> NAICS <br> Code | Industry Titles | Ohio | U.S. | Ohio::U.S Concentra tion Ratio |
| :---: | :---: | :---: | :---: | :---: |
| 3326 | Spring \& wire product mfg. | 2,645 | 37,995 | 1.88 |
| 3327 | Machine shops, turn products, screw, nut \& bolt mfg. | 30,623 | 386,450 | 2.14 |
| 3328 | Coating, engrave, heat treating \& other activity | 12,433 | 133,271 | 2.52 |
| 3329 | Other fabricated metal product mfg. | 17,124 | 260,830 | 1.78 |
| 3331 | Agricultural, construction \& mining machinery mfg. | 6,259 | 197,375 | 0.86 |
| 3332 | Industrial machinery mfg. | 8,220 | 112,079 | 1.98 |
| 3333 | Commercial \& service industry machinery mfg. | 3,221 | 74,832 | 1.16 |
| 3334 | HVAC \& commercial refrigeration eqpt. mfg. | 7,415 | 130,182 | 1.54 |
| 3335 | Metalworking machinery mfg. | 17,202 | 150,753 | 3.09 |
| 3336 | Engine, turbine \& power transmission eqpt. mfg. | 5,066 | 101,428 | 1.35 |
| 3339 | Other general purpose machinery mfg. | 28,485 | 312,689 | 2.46 |
| 3341 | Computer \& peripheral eqpt. mfg. | 534 | 39,505 | 0.37 |
| 3342 | Communications eqpt. mfg. | 1,022 | 77,046 | 0.36 |
| 3343 | Audio \& video eqpt. mfg. | 210 | 9,265 | 0.61 |
| 3344 | Semiconductor \& other electronic component mfg. | 7,202 | 265,543 | 0.73 |
| 3345 | Navigation, measuring, medical, control instruments mfg. | 14,342 | 397,015 | 0.98 |
| 3346 | Mfg. \& reproducing magnetic \& optical media | 251 | 6,390 | 1.06 |
| 3351 | Electric lighting eqpt. mfg. | 1,381 | 41,703 | 0.90 |
| 3352 | Household appliance mfg. | 10,751 | 52,100 | 5.58 |
| 3353 | Electrical eqpt. mfg. | 5,241 | 118,816 | 1.19 |
| 3359 | Other electrical eqpt. \& component mfg. | 6,117 | 136,710 | 1.21 |
| 3361 | Motor vehicle mfg. | 22,606 | 236,160 | 2.59 |
| 3362 | Motor vehicle body \& trailer mfg. | 6,888 | 164,682 | 1.13 |
| 3363 | Motor vehicle parts mfg. | 75,905 | 615,808 | 3.33 |
| 3364 | Aerospace product \& parts mfg. | 15,029 | 422,335 | 0.96 |
| 3365 | Railroad rolling stock mfg. | 549 | 30,822 | 0.48 |

Table A21: Group or Sub-group Employment Concentration Ratios Based on 2019 CBP Employment*

| 2017 <br> NAICS <br> Code | Industry Titles | Ohio | U.S. | Ohio::U.S. Concentration Ratio |
| :---: | :---: | :---: | :---: | :---: |
| 3366 | Ship \& boat building | 117 | 137,065 | 0.02 |
| 3369 | Other transportation eqpt. mfg. | 1,247 | 34,065 | 0.99 |
| 3371 | Household \& institutional furniture \& kitchen cabinet mfg. | 9,318 | 221,448 | 1.14 |
| 3372 | Office furniture (including fixtures) mfg. | 3,037 | 114,947 | 0.71 |
| 3379 | Other furniture related product mfg. | 592 | 31,013 | 0.52 |
| 3391 | Medical eqpt. \& supplies mfg. | 10,151 | 289,566 | 0.95 |
| 3399 | Other miscellaneous mfg. | 13,391 | 263,886 | 1.37 |
| 31 \& 32p | Nondurable goods |  |  |  |
| 3111 | Animal food mfg. | 2,429 | 56,889 | 1.15 |
| 3112 | Grain \& oilseed milling | 1,999 | 58,623 | 0.92 |
| 3113 | Sugar \& confectionery product mfg. | 2,274 | 81,524 | 0.75 |
| 3114 | Fruit \& vegetable preserving \& specialty food mfg. | 8,737 | 162,402 | 1.46 |
| 3115 | Dairy product mfg. | 5,993 | 151,698 | 1.07 |
| 3116 | Animal slaughtering \& processing | 12,012 | 532,575 | 0.61 |
| 3117 | Seafood product preparation \& packaging | 2 | 31,026 | 0.00 |
| 3118 | Bakeries \& tortilla mfg. | 10,870 | 296,341 | 0.99 |
| 3119 | Other food mfg. | 10,478 | 222,882 | 1.27 |
| 3121 | Beverage mfg. | 7,646 | 243,534 | 0.85 |
| 3122 | Tobacco mfg. | 3 | 12,661 | 0.01 |
| 3131 | Fiber, yarn \& thread mills | 12 | 21,194 | 0.02 |
| 3132 | Fabric mills | 602 | 46,421 | 0.35 |
| 3133 | Textile, fabric finishing, fabric coating mills | 574 | 25,642 | 0.61 |
| 3141 | Textile furnishings mills | 1,097 | 47,837 | 0.62 |
| 3149 | Other textile product mills | 1,710 | 58,216 | 0.79 |
| 3151 | Apparel knitting mills | 30 | 10,390 | 0.08 |
| 3152 | Cut \& sew apparel mfg. | 574 | 61,992 | 0.25 |
| 3159 | Apparel accessories \& other apparel mfg. | 216 | 8,315 | 0.70 |

Table A21: Group or Sub-group Employment Concentration Ratios Based on 2019 CBP Employment*

| 2017 <br> NAICS <br> Code | Industry Titles | Ohio | U.S. | Ohio::U.S. Concentration Ratio |
| :---: | :---: | :---: | :---: | :---: |
| 3161 | Leather \& hide tanning \& finishing | 103 | 3,269 | 0.85 |
| 3162 | Footwear mfg. | 9 | 11,396 | 0.02 |
| 3169 | Other leather \& allied product mfg. | 1,006 | 11,676 | 2.33 |
| 3221 | Pulp, paper \& paperboard mills | 1,223 | 99,448 | 0.33 |
| 3222 | Converted paper product mfg. | 16,926 | 247,938 | 1.85 |
| 32311 | Printing | 21,992 | 407,834 | 1.46 |
| 32312 | Support activities for printing | 1,046 | 21,419 | 1.32 |
| 32411 | Petroleum refineries | 2,057 | 64,334 | 0.86 |
| 32412 | Asphalt paving mfg., roof shingles, etc. | 1,950 | 26,614 | 1.98 |
| 32419 | Other petroleum \& coal products | 1,580 | 16,561 | 2.58 |
| 3251 | Basic chemical mfg. | 7,767 | 155,488 | 1.35 |
| 3252 | Resin, synthetic rubber, artificial \& synthetic fibers, filling mfg. | 6,261 | 108,118 | 1.57 |
| 3253 | Pesticide, fertilizer \& other agricultural chemical mfg. | 2,059 | 33,764 | 1.65 |
| 3254 | Pharmaceutical \& medicine mfg. | 4,456 | 265,800 | 0.45 |
| 3255 | Paint, coating \& adhesive mfg. | 8,379 | 64,423 | 3.52 |
| 3256 | Soap, cleaners \& toilet preparation mfg. | 8,661 | 104,691 | 2.24 |
| 3259 | Other chemical product \& preparation mfg. | 5,177 | 84,945 | 1.65 |
| 3261 | Plastics product mfg. | 52,812 | 655,529 | 2.18 |
| 3262 | Rubber product mfg. | 14,128 | 140,991 | 2.71 |
| Service-providing groups |  |  |  |  |
| 2211 | Electric power generation, transmission \& distribution | 17,276 | 502,660 | 0.93 |
| 2212 | Natural gas distribution | 5,012 | 92,694 | 1.46 |
| 2213 | Water, sewage \& other systems | 893 | 46,346 | 0.52 |
| 4231 | Motor vehicles, parts \& supply merchant whlsl. | 20,105 | 418,748 | 1.30 |
| 4232 | Furniture \& home furnishing merchant whlsl. | 6,303 | 167,751 | 1.02 |

Table A21: Group or Sub-group Employment Concentration Ratios Based on 2019 CBP Employment*

| 2017 <br> NAICS <br> Code | Industry Titles | Ohio | Ohio::U.S. ConcentraU.S. tion Ratio |  |
| :---: | :---: | :---: | :---: | :---: |
| \|4233 | Lumber \& other construction materials merchant whlsl. | 8,350 | 262,921 | 0.86 |
| 4234 | Professional \& commercial eqpt. \& supplies merchant whisl. | 25,095 | 644,158 | 1.05 |
| 4235 | Metal \& mineral (exc. petroleum) merchant whlsl. | 9,390 | 153,559 | 1.65 |
| 4236 | Appliances, electrical \& electronic goods merchant whlsl. | 16,244 | 519,895 | 0.85 |
| 4237 | Hardware, plumb \& heating eqpt. \& supplies merchant whisl. | 12,227 | 260,658 | 1.27 |
| 4238 | Machinery, eqpt. \& supplies merchant whlsl. | 40,842 | 786,505 | 1.40 |
| 4239 | Miscellaneous durable goods merchant whlsl. | 13,157 | 326,304 | 1.09 |
| 4241 | Paper \& paper product merchant whlsl. | 5,287 | 147,159 | 0.97 |
| 4242 | Drugs \& druggists' sundries merchant whlsl. | 9,063 | 301,213 | 0.81 |
| 4243 | Apparel, piece goods \& notions merchant whlsl. | 4,123 | 192,924 | 0.58 |
| 4244 | Grocery \& related product merchant whisl. | 26,388 | 859,013 | 0.83 |
| 4245 | Farm product raw material merchant whisl. | 2,183 | 62,655 | 0.94 |
| 4246 | Chemical \& allied products merchant whisl. | 9,114 | 161,055 | 1.53 |
| 4247 | Petroleum \& petroleum products merchant whisl. | 2,794 | 102,087 | 0.74 |
| 4248 | Beer, wine, distilled alcoholic beverage merchant whlsl. | 6,474 | 206,338 | 0.85 |
| 4249 | Miscellaneous nondurable goods merchant whlsl. | 10,407 | 335,276 | 0.84 |
| 42511 | Business to business electronic markets | 79 | 4,425 | 0.48 |
| 42512 | Wholesale trade agents \& brokers | 8,640 | 268,580 | 0.87 |
| 4411 | Automobile dealers | 52,364 | 1,333,853 | 1.06 |
| 4412 | Other motor vehicle dealers | 4,908 | 152,709 | 0.87 |
| 4413 | Automotive parts, accessories \& tire stores | 20,133 | 536,376 | 1.02 |
| 4421 | Furniture stores | 7,251 | 205,167 | 0.96 |
| 4422 | Home furnishings stores | 8,019 | 267,814 | 0.81 |
| 443141 | Household appliance stores | 1,733 | 54,341 | 0.86 |
| 443142 | Electronics stores | 7,592 | 239,152 | 0.86 |

Table A21: Group or Sub-group Employment Concentration Ratios Based on 2019 CBP Employment*

| 2017 <br> NAICS <br> Code | Industry Titles | Ohio | Ohio::U.S. ConcentraU.S. tion Ratio |  |
| :---: | :---: | :---: | :---: | :---: |
| 4441 | Building material \& supplies dealers | 44,733 | 1,184,402 | 1.02 |
| 4442 | Lawn \& garden eqpt. \& supplies stores | 6,389 | 155,155 | 1.11 |
| 4451 | Grocery stores | 95,957 | 2,779,707 | 0.93 |
| 4452 | Specialty food stores | 5,492 | 162,564 | 0.91 |
| 4453 | Beer, wine \& liquor stores | 3,084 | 174,277 | 0.48 |
| 44611 | Pharmacies \& drug stores | 23,879 | 675,766 | 0.96 |
| 44612 | Cosmetics, beauty supplies \& perfume stores | 4,751 | 159,625 | 0.81 |
| 44613 | Optical goods stores | 2,355 | 81,920 | 0.78 |
| 44619 | Other health \& personal care stores | 3,950 | 104,899 | 1.02 |
| 44711 | Gasoline stations with convenience stores | 32,642 | 848,444 | 1.04 |
| 44719 | Other gasoline stores | 5,248 | 145,890 | 0.97 |
| 4481 | Clothing stores | 36,281 | 1,325,045 | 0.74 |
| 4482 | Shoe stores | 6,668 | 222,520 | 0.81 |
| 4483 | Jewelry, luggage \& leather goods stores | 3,944 | 118,793 | 0.90 |
| 4511 | Sporting goods, hobby, musical instrument stores | 14,233 | 413,277 | 0.93 |
| 4512 | Book, periodical \& music stores | 1,968 | 64,185 | 0.83 |
| 4522 | Department stores | 15,415 | 425,888 | 0.98 |
| 4523 | General merchandise stores, inc. warehouse clubs \& supercenters | 87,878 | 2,307,946 | 1.03 |
| 4531 | Florists | 2,584 | 54,582 | 1.28 |
| 4532 | Office supplies, stationery \& gift stores | 6,419 | 203,823 | 0.85 |
| 4533 | Used merchandise stores | 8,822 | 201,337 | 1.19 |
| 4539 | Other miscellaneous store retailers | 10,907 | 308,837 | 0.96 |
| 4541 | Electronic shopping \& mail-order houses | 20,419 | 560,585 | 0.99 |
| 4542 | Vending machine operators | 6,175 | 43,264 | 3.86 |
| 4543 | Direct selling establishments | 4,252 | 181,147 | 0.63 |
| 4811 | Scheduled air transportation | 4,746 | 457,050 | 0.28 |
| 4812 | Nonscheduled air transportation | 6,127 | 44,294 | 3.74 |

Table A21: Group or Sub-group Employment Concentration Ratios Based on 2019 CBP Employment*

| 2017 <br> NAICS Code | Industry Titles | Ohio | U.S. | Ohio::U.S. Concentration Ratio |
| :---: | :---: | :---: | :---: | :---: |
| 4831 | Deep sea, coastal \& Great Lakes water transportation | 378 | 42,027 | 0.24 |
| 4832 | Inland water transportation | 170 | 20,156 | 0.23 |
| 4841 | General freight trucking | 49,061 | 1,078,098 | 1.23 |
| 4842 | Specialized freight trucking | 19,231 | 503,849 | 1.03 |
| 4851 | Urban transit systems | 434 | 55,855 | 0.21 |
| 4852 | Interurban \& rural bus transportation | 283 | 18,471 | 0.41 |
| 4853 | Taxi \& limousine service | 1,575 | 71,745 | 0.59 |
| 4854 | School \& employee bus transportation | 4,162 | 235,391 | 0.48 |
| 4855 | Charter bus industry | 816 | 30,885 | 0.71 |
| 4859 | Other transit \& ground passenger transportation | 3,158 | 99,496 | 0.86 |
| 4861 | Pipeline transportation of crude oil | 1,016 | 11,318 | 2.43 |
| 4862 | Pipeline transportation of natural gas | 637 | 27,294 | 0.63 |
| 4869 | Other pipeline transportation | 508 | 8,577 | 1.60 |
| 4871 | Scenic \& sightseeing transportation, land | 180 | 11,116 | 0.44 |
| 4872 | Scenic \& sightseeing transportation, water | 35 | 14,979 | 0.06 |
| 4879 | Scenic \& sightseeing transportation, other | 2 | 3,578 | 0.02 |
| 4881 | Air transportation support activities | 4,958 | 224,269 | 0.60 |
| 4882 | Rail transportation support activities | 2,566 | 42,192 | 1.64 |
| 4883 | Water transportation support activities | 877 | 102,472 | 0.23 |
| 4884 | Road transportation support activities | 4,017 | 113,949 | 0.95 |
| 4885 | Freight transportation arrangement | 11,358 | 295,673 | 1.04 |
| 4889 | Other transportation support activities | 1,148 | 19,031 | 1.63 |
| 4921 | Couriers | 31,810 | 779,591 | 1.10 |
| 4922 | Local messengers \& local delivery | 2,155 | 75,568 | 0.77 |
| 49311 | General warehousing \& storage | 49,256 | 890,947 | 1.50 |
| 49312 | Refrigerated warehousing \& storage | 1,535 | 58,851 | 0.71 |
| 49313 | Farm products | 174 | 6,513 | 0.72 |
| 49319 | Other warehousing \& storage | 4,282 | 65,137 | 1.78 |

Table A21: Group or Sub-group Employment Concentration Ratios Based on 2019 CBP Employment*

| 2017 <br> NAICS <br> Code | Industry Titles | Ohio | Ohio::U.S ConcentraU.S. tion Ratio |  |
| :---: | :---: | :---: | :---: | :---: |
| 5111 | Newspaper, periodical, book, database publishers | 24,554 | 320,795 | 2.07 |
| 5112 | Software publishers | 11,287 | 690,024 | 0.44 |
| 5121 | Motion picture \& video industries | 4,738 | 305,420 | 0.42 |
| 5122 | Sound recording industries | 126 | 22,732 | 0.15 |
| 5151 | Radio \& television broadcasting (exc. internet) | 6,039 | 212,773 | 0.77 |
| 5152 | Cable \& other subscription programming (exc. internet) | 116 | 54,103 | 0.06 |
| 5173 | Wired \& wireless telecommunications carriers (exc. satellite) | 30,469 | 1,007,877 | 0.82 |
| 5174 | Satellite communications | 56 | 7,932 | 0.19 |
| 5179 | Other telecommunications | 1,787 | 60,820 | 0.79 |
| 5182 | Data processing, hosting \& related services ${ }^{\wedge}$ | 13,684 | 552,937 | 0.67 |
| 51911 | News syndicates | 196 | 6,353 | 0.83 |
| 51912 | Libraries \& archives | 279 | 26,101 | 0.29 |
| 51913 | Internet publishing, broadcasting \& web search portals | 5,817 | 295,295 | 0.53 |
| 51919 | All other information services | 35 | 9,190 | 0.10 |
| 5211 | Monetary authorities - central bank^ | 1,061 | 19,989 | 1.44 |
| 5221 | Depository credit intermediation | 91,213 | 1,953,737 | 1.26 |
| 5222 | Nondepository credit intermediation | 14,896 | 603,723 | 0.67 |
| 5223 | Activities related to credit intermediation | 10,774 | 311,084 | 0.94 |
| 5231 | Security \& commodity contracts intermediation \& brokerage | 6,879 | 350,734 | 0.53 |
| 5232 | Securities \& commodity exchanges | 0 | 5,937 | 0.00 |
| 5239 | Other financial investment activities | 11,165 | 570,545 | 0.53 |
| 5241 | Insurance carriers | 84,350 | 1,552,478 | 1.47 |
| 5242 | Agencies \& other insurance related activities | 38,428 | 1,177,284 | 0.88 |
| 52591 | Open-end investment funds | 8 | 1,565 | 0.14 |
| 52599 | Other financial vehicles | 42 | 6,090 | 0.19 |

Table A21: Group or Sub-group Employment Concentration Ratios Based on 2019 CBP Employment*

| 2017 <br> NAICS <br> Code | Industry Titles | Ohio | Ohio::U.S. ConcentraU.S. tion Ratio |  |
| :---: | :---: | :---: | :---: | :---: |
| 5311 | Lessors of real estate | 18,393 | 604,181 | 0.82 |
| 5312 | Offices of real estate agents \& brokers | 6,983 | 349,243 | 0.54 |
| 5313 | Activities related to real estate | 20,950 | 723,462 | 0.78 |
| 5321 | Automotive eqpt. rental \& leasing | 6,697 | 177,598 | 1.02 |
| 5322 | Consumer goods rental | 4,685 | 131,163 | 0.97 |
| 5323 | General rental centers | 796 | 19,552 | 1.10 |
| 5324 | Commercial, industrial eqpt. rental \& leasing | 4,910 | 199,212 | 0.67 |
| 5331 | Lessors of other nonfinancial intangible asset ${ }^{\wedge}$ | 1,085 | 35,737 | 0.82 |
| 5411 | Legal services | 31,191 | 1,149,095 | 0.73 |
| 5412 | Accounting, tax preparation, bookkeeping, payroll services | 38,340 | 1,159,229 | 0.89 |
| 5413 | Architectural, engineering \& related services | 46,075 | 1,568,935 | 0.79 |
| 5414 | Specialized design services | 3,485 | 122,531 | 0.77 |
| 5415 | Computer systems design \& related services | 46,565 | 1,924,248 | 0.65 |
| 5416 | Management, scientific \& technical consulting services | 38,153 | 1,384,830 | 0.75 |
| 5417 | Scientific research \& development services | 20,329 | 804,597 | 0.68 |
| 5418 | Advertising \& related services | 11,369 | 469,558 | 0.65 |
| 5419 | Other professional, scientific, technical service | 28,622 | 701,468 | 1.10 |
| 551111 | Bank holding companies | 95 | 8,482 | 0.30 |
| 551112 | Other holding companies | 2,955 | 102,895 | 0.78 |
| 551114 | Corporate \& subsidiary managing offices | 148,406 | 3,411,901 | 1.18 |
| 5611 | Office administrative services | 17,249 | 527,236 | 0.88 |
| 5612 | Facilities support services | 11,723 | 294,462 | 1.08 |
| 5613 | Employment services | 225,915 | 7,012,453 | 0.87 |
| 5614 | Business support services | 27,633 | 797,759 | 0.94 |

Table A21: Group or Sub-group Employment Concentration Ratios Based on 2019 CBP Employment*

| 2017 |  |  |  | Ohio::U.S. <br> Concentra- <br> NAICS <br> Code |
| :--- | :--- | ---: | ---: | ---: |
|  | Industry Titles |  | Ohio | U.S. |
| tion Ratio |  |  |  |  |

Table A21: Group or Sub-group Employment Concentration Ratios Based on 2019 CBP Employment*

| 2017 <br> NAICS <br> Code | Industry Titles | Ohio $\quad$Ohio::U.S. <br> Concentra- <br> U.S. |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 6231 | Nursing care facilities | 81,491 | 1,623,081 | 1.36 |
| 6232 | Residential mental retardation, health facilities | 33,889 | 791,849 | 1.16 |
| 6233 | Community care facilities for the elderly | 43,040 | 999,070 | 1.17 |
| 6239 | Other residential care facilities | 3,352 | 124,496 | 0.73 |
| 6241 | Individual \& family services | 64,223 | 1,935,648 | 0.90 |
| 6242 | Community, emergency \& other relief services | 7,340 | 214,634 | 0.92 |
| 6243 | Vocational rehabilitation services | 18,902 | 275,482 | 1.86 |
| 6244 | Child day care services | 36,295 | 1,001,811 | 0.98 |
| 7111 | Performing arts companies | 3,099 | 126,775 | 0.66 |
| 7112 | Spectator sports | 9,017 | 138,466 | 1.76 |
| 7113 | Promoters of entertainment events | 4,793 | 197,920 | 0.65 |
| 7114 | Agents, managers for artists \& other public figures | 739 | 23,092 | 0.87 |
| 7115 | Independent artists, writers \& performers | 1,010 | 57,011 | 0.48 |
| 71211 | Museums | 4,325 | 97,775 | 1.20 |
| 71212 | Historical sites | 410 | 12,964 | 0.86 |
| 71213 | Zoos \& gardens | 2,049 | 41,212 | 1.34 |
| 71219 | Nature parks, etc. | 236 | 7,884 | 0.81 |
| 7131 | Amusement parks \& arcades | 6,367 | 239,963 | 0.72 |
| 7132 | Gambling industries | 4,487 | 137,201 | 0.88 |
| 7139 | Other amusement \& recreation industries | 44,437 | 1,424,150 | 0.84 |
| 7211 | Traveler accommodation | 33,641 | 2,102,377 | 0.43 |
| 7212 | RV parks \& recreational camps | 932 | 48,269 | 0.52 |
| 7213 | Rooming \& boarding houses | 286 | 10,742 | 0.72 |
| 7223 | Special food services | 22,620 | 849,063 | 0.72 |
| 7224 | Drinking places (alcoholic beverages) | 12,627 | 382,725 | 0.89 |
| 7225 | Restaurants \& other eating places | 412,176 | 11,099,201 | 1.00 |

Table A21: Group or Sub-group Employment Concentration Ratios Based on 2019 CBP Employment*

| 2017 <br> NAICS <br> Code | Industry Titles | Ohio | Ohio::U.S. ConcentraU.S. tion Ratio |  |
| :---: | :---: | :---: | :---: | :---: |
| 8111 | Automotive repair \& maintenance | 31,975 | 929,573 | 0.93 |
| 8112 | Electronic \& precision eqpt. repair \& maintenance | 2,967 | 100,236 | 0.80 |
| 8113 | Commercial eqpt. (exc. auto \& electric) repair \& maintenance | 9,272 | 204,445 | 1.23 |
| 8114 | Personal \& household goods repair \& maintenance | 2,147 | 72,292 | 0.80 |
| 8121 | Personal care services | 28,995 | 762,196 | 1.03 |
| 8122 | Death care services | 7,055 | 134,057 | 1.42 |
| 8123 | Drycleaning \& laundry services | 9,394 | 281,712 | 0.90 |
| 8129 | Other personal services | 11,646 | 362,205 | 0.87 |
| 8131 | Religious organizations | 63,428 | 1,682,903 | 1.02 |
| 8132 | Grantmaking \& giving services | 5,649 | 198,105 | 0.77 |
| 8133 | Social advocacy organizations | 4,098 | 183,576 | 0.60 |
| 8134 | Civic \& social organizations | 10,741 | 221,389 | 1.31 |
| 8139 | Business, labor, political, like organizations | 15,761 | 486,551 | 0.88 |

Notes: * - all County Business Patterns (CBP) figures should be regarded as estimates, and may not sum to totals for that reason; ${ }^{\wedge}$ - no further details are available. Abbreviations used: eqpt. - equipment; exc. - except; mfg. - manufacturing; mgt. - management; whlsl. - wholesale.

Source: U.S. Bureau of the Census (2021b).
Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 4/21).

Percentage Changes

| Area name | 07 | 08^ | 09^ | 10 | 11 | - 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20^* | 07-09 | 09-`19 | 19-'20 | 07-20 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ohio | \$546.7 | \$537.1 | \$511.1 | \$524.0 | \$541.2 | \$545.7 | \$556.2 | \$574.2 | \$578.9 | \$583.9 | \$590.7 | \$598.9 | \$611.1 | \$589.9 | -6.5\% | 19.6\% | -3.5\% | 7.9\% |
| Adams | \$1.38 | \$1.31 | \$1.48 | \$1.44 | \$1.56 | \$1.45 | \$1.48 | \$1.34 | \$1.42 | \$1.55 | \$1.38 | \$0.88 | \$0.68 | \$0.68 | 6.7\% | -54.2\% | 0.8\% | -50.7\% |
| Allen | \$6.04 | \$6.06 | \$7.50 | \$7.82 | \$7.93 | \$7.28 | \$6.92 | \$7.60 | \$7.37 | \$7.66 | \$7.50 | \$7.56 | \$7.61 | \$7.48 | 24.0\% | 1.5\% | -1.7\% | 23.8\% |
| Ashland | \$1.61 | \$1.59 | \$1.53 | \$1.53 | \$1.58 | \$1.55 | \$1.59 | \$1.56 | \$1.54 | \$1.52 | \$1.55 | \$1.57 | \$1.57 | \$1.58 | -5.0\% | 2.6\% | 0.5\% | -1.9\% |
| Ashtabula | \$2.93 | \$2.87 | \$2.66 | \$2.84 | \$2.91 | \$2.87 | \$2.77 | \$2.82 | \$2.74 | \$2.78 | \$2.71 | \$2.84 | \$2.84 | \$2.71 | -9.4\% | 7.0\% | -4.6\% | -7.5\% |
| Athens | \$1.77 | \$1.72 | \$1.74 | \$1.79 | \$1.78 | \$1.79 | \$1.85 | \$1.83 | \$1.87 | \$1.86 | \$1.96 | \$1.89 | \$1.92 | \$1.81 | -1.6\% | 10.5\% | -6.1\% | 2.1\% |
| Auglaize | \$1.88 | \$1.85 | \$1.63 | \$1.76 | \$1.88 | \$1.99 | \$2.08 | \$2.07 | \$2.03 | \$2.09 | \$2.20 | \$2.19 | \$2.13 | \$1.99 | -13.4\% | 30.5\% | -6.5\% | 5.7\% |
| Belmont | \$2.19 | \$2.25 | \$2.19 | \$2.22 | \$2.24 | \$2.21 | \$2.38 | \$2.82 | \$3.40 | \$3.54 | \$3.61 | \$3.35 | \$3.49 | \$3.68 | -0.2\% | 59.5\% | 5.4\% | 67.8\% |
| Brown | \$0.82 | \$0.82 | \$0.82 | \$0.85 | \$0.88 | \$0.85 | \$0.85 | \$0.84 | \$0.82 | \$0.85 | \$0.83 | \$0.82 | \$0.79 | \$0.76 | -0.9\% | -3.2\% | -4.1\% | -8.0\% |
| Butler | \$15.06 | \$14.86 | \$13.88 | \$14.57 | \$15.02 | \$15.19 | \$15.58 | \$16.94 | \$17.94 | \$18.92 | \$19.60 | \$19.75 | \$20.35 | \$19.35 | -7.8\% | 46.6\% | -4.9\% | 28.5\% |
| Carroll | \$0.64 | \$0.56 | \$0.51 | \$0.68 | \$1.25 | \$0.70 | \$1.29 | \$1.67 | \$1.95 | \$1.84 | \$1.59 | \$1.63 | \$1.75 | \$1.71 | -20.2\% | 241.5\% | -2.4\% | 166.0\% |
| Champaig | \$1.10 | \$1.02 | \$0.88 | \$0.93 | \$0.97 | \$1.01 | \$1.07 | \$1.08 | \$1.03 | \$1.00 | \$1.05 | \$1.07 | \$1.06 | \$1.10 | -20.1\% | 20.0\% | 3.8\% | -0.4\% |
| Clark | \$4.36 | \$4.23 | \$4.02 | \$4.03 | \$4.14 | \$4.10 | \$4.13 | \$4.16 | \$4.18 | \$4.13 | \$4.14 | \$4.16 | \$4.17 | \$3.96 | -7.9\% | 3.8\% | -5.0\% | -9.2\% |
| Clermo | \$6.58 | \$6.31 | \$6.07 | \$6.45 | \$6.69 | \$6.52 | \$6.78 | \$7.00 | \$7.61 | \$7.44 | \$7.64 | \$7.84 | \$8.00 | \$7.79 | -7.7\% | 31.7\% | -2.6\% | \% |
| Clinton | \$2.67 | \$2.57 | \$2.22 | \$1.87 | \$1.85 | \$1.80 | \$1.78 | \$1.76 | \$1.87 | \$1.89 | \$1.98 | \$2.02 | \$2.01 | \$2.05 | -17.1\% | -9.4\% | 2.0\% | -23.4\% |
| Columbiana | \$2.86 | \$2.62 | \$2.55 | \$2.60 | \$2.70 | \$2.70 | \$2.80 | \$2.93 | \$2.94 | \$2.89 | \$2.79 | \$2.81 | \$2.84 | \$2.76 | -11.1\% | 11.4\% | -2.8\% | -3.7\% |
| Coshocton | \$1.63 | \$1.53 | \$1.43 | \$1.48 | \$1.56 | \$1.43 | \$1.55 | \$1.67 | \$1.57 | \$1.45 | \$1.37 | \$1.39 | \$1.28 | \$1.21 | -12.3\% | -10.8\% | -5.4\% | -26.0\% |
| Crawford | \$1.38 | \$1.31 | \$1.22 | \$1.20 | \$1.26 | \$1.24 | \$1.24 | \$1.26 | \$1.26 | \$1.26 | \$1.23 | \$1.17 | \$1.21 | \$1.22 | -11.5\% | -1.1\% | 0.9\% | -11.7\% |
| Cuyahoga | \$84.17 | \$83.66 | \$78.17 | \$77.97 | \$78.77 | \$79.92 | \$80.65 | \$82.27 | \$82.79 | \$83.06 | \$84.09 | \$86.19 | \$88.09 | \$84.38 | -7.1\% | 12.7\% | -4.2\% | 0.3\% |
| Darke | \$1.54 | \$1.74 | \$1.58 | \$1.64 | \$1.65 | \$1.68 | \$1.77 | \$1.98 | \$1.96 | \$1.88 | \$2.05 | \$2.21 | \$1.94 | \$1.94 | 2.8\% | 22.6\% | 0.0\% | 26.0\% |
| Defiance | \$1.63 | \$1.61 | \$1.38 | \$1.45 | \$1.52 | \$1.59 | \$1.67 | \$1.67 | \$1.64 | \$1.75 | \$1.65 | \$1.58 | \$1.61 | \$1.54 | -15.5\% | 16.9\% | -4.6\% | -5.7\% |
| Delawar | \$7.28 | \$7.44 | \$7.44 | \$7.93 | \$8.48 | \$8.88 | \$9.27 | \$9.47 | \$9.61 | \$9.79 | \$10.36 | \$10.83 | \$11.65 | \$11.27 | 2.3\% | 56.5\% | -3.2\% | 55.0\% |
| Erie | \$4.46 | \$4.33 | \$4.58 | \$4.94 | \$5.19 | \$5.22 | \$5.44 | \$5.46 | \$4.80 | \$4.87 | \$4.76 | \$4.66 | \$4.19 | \$3.77 | 2.6\% | -8.5\% | -10.0\% | -15.5\% |
| Fairfield | \$3.41 | \$3.40 | \$3.27 | \$3.48 | \$3.59 | \$3.67 | \$3.70 | \$3.80 | \$3.75 | \$3.91 | \$4.01 | \$3.97 | \$4.15 | \$4.07 | -4.0\% | 26.9\% | -1.8\% | 19.6\% |
| Fayette | \$1.05 | \$0.98 | \$0.98 | \$0.94 | \$0.98 | \$0.99 | \$1.40 | \$1.73 | \$2.05 | \$2.35 | \$2.53 | \$2.36 | \$2.04 | \$1.99 | -7.0\% | 108.9\% | -2.5\% | 89.3\% |
| Franklin | \$71.86 | \$71.11 | \$68.82 | \$70.48 | \$72.99 | \$76.16 | \$78.34 | \$80.94 | \$82.18 | \$84.02 | \$85.75 | \$87.17 | \$88.62 | \$86.19 | -4.2\% | 28.8\% | -2.7\% | 20.0\% |
| Fulton | \$1.97 | \$1.75 | \$1.46 | \$1.60 | \$1.74 | \$1.72 | \$1.77 | \$1.77 | \$1.88 | \$1.96 | \$1.91 | \$1.86 | \$1.86 | \$1.87 | -25.7\% | 27.3\% | 0.4\% | -5.0\% |
| Gallia | \$2.06 | \$2.20 | \$2.23 | \$2.29 | \$2.34 | \$2.32 | \$2.11 | \$2.08 | \$1.99 | \$2.10 | \$2.20 | \$2.08 | \$2.01 | \$1.87 | 8.1\% | -9.9\% | -6.8\% | -9.3\% |
| Geauga | \$3.75 | \$3.59 | \$3.47 | \$3.58 | \$3.77 | \$3.72 | \$3.86 | \$3.86 | \$3.99 | \$3.90 | \$3.86 | \$4.02 | \$4.00 | \$3.78 | -7.4\% | 15.4\% | -5.5\% | 0.9\% |
| Greene | \$7.19 | \$7.08 | \$7.26 | \$7.56 | \$8.06 | \$7.89 | \$7.88 | \$8.02 | \$8.29 | \$8.53 | \$8.82 | \$8.90 | \$9.22 | \$9.12 | 1.0\% | 27.0\% | -1.1\% | 26.9\% |
| Guernsey | \$1.29 | \$1.21 | \$1.19 | \$1.21 | \$1.25 | \$1.25 | \$1.38 | \$1.60 | \$1.98 | \$1.96 | \$2.00 | \$2.05 | \$2.18 | \$2.15 | -7.6\% | 83.7\% | -1.8\% | 66.8\% |
| Hamilton | \$61.33 | \$61.42 | \$59.41 | \$60.64 | \$63.35 | \$63.86 | \$64.10 | \$64.72 | \$64.99 | \$66.95 | \$66.76 | \$67.26 | \$69.80 | \$66.91 | -3.1\% | 17.5\% | -4.1\% | 9.1\% |
| Hancock | \$3.99 | \$3.85 | \$3.66 | \$3.78 | \$3.92 | \$4.28 | \$4.49 | \$4.99 | \$5.59 | \$5.33 | \$5.05 | \$4.94 | \$4.91 | \$4.78 | -8.4\% | 34.2\% | -2.7\% | 19.7\% |
| Hardin | \$0.85 | \$0.89 | \$0.89 | \$0.90 | \$0.90 | \$0.86 | \$0.86 | \$0.93 | \$0.82 | \$0.85 | \$0.83 | \$0.89 | \$0.85 | \$0.84 | 5.5\% | -4.2\% | -2.3\% | -1.2\% |
| Harrison | \$0.39 | \$0.39 | \$0.41 | \$0.43 | \$0.46 | \$0.44 | \$0.72 | \$0.96 | \$1.48 | \$1.56 | \$1.29 | \$1.14 | \$1.34 | \$1.61 | 6.0\% | 225.5\% | 20.5\% | 315.8\% |
| Henry | \$1.21 | \$1.11 | \$1.08 | \$1.07 | \$1.12 | \$1.14 | \$1.24 | \$1.30 | \$1.31 | \$1.23 | \$1.15 | \$1.13 | \$1.32 | \$1.36 | -11.1\% | 22.6\% | 2.6\% | 11.8\% |
| Highland | \$1.11 | \$0.99 | \$1.00 | \$1.01 | \$1.03 | \$1.02 | \$1.01 | \$1.03 | \$1.03 | \$1.01 | \$1.08 | \$1.11 | \$1.15 | \$1.18 | -9.6\% | 14.4\% | 2.9\% | 6.5\% |

Percentage Changes

| Area name | 07 | 08^ | 09^ | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | $20^{\wedge *}$ | 07-09 | 09-19 | 19-20 | 07-20 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ohio | \$546.7 | \$537.1 | \$511.1 | \$524.0 | \$541.2 | \$545.7 | \$556.2 | \$574.2 | \$578.9 | \$583.9 | \$590.7 | \$598.9 | \$611.1 | \$589.9 | -6.5\% | 19.6\% | -3.5\% | 7.9\% |
| Hocking | \$0.62 | \$0.58 | \$0.57 | \$0.58 | \$0.58 | \$0.58 | \$0.58 | \$0.56 | \$0.59 | \$0.56 | \$0.60 | \$0.58 | \$0.59 | \$0.56 | -7.4\% | 2.3\% | -5.3\% | -10.3\% |
| Holmes | \$1.55 | \$1.49 | \$1.51 | \$1.57 | \$1.70 | \$1.69 | \$1.79 | \$1.96 | \$2.09 | \$2.03 | \$2.19 | \$2.30 | \$2.33 | \$2.24 | -2.9\% | 54.4\% | -3.8\% | 44.1\% |
| Huron | \$2.35 | \$2.13 | \$2.08 | \$2.08 | \$2.13 | \$2.07 | \$2.12 | \$2.08 | \$1.98 | \$1.98 | \$1.99 | \$2.10 | \$2.07 | \$2.04 | -11.5\% | -0.7\% | -1.6\% | -13.5\% |
| Jackson | \$1.00 | \$0.94 | \$0.94 | \$0.94 | \$0.94 | \$0.91 | \$0.94 | \$0.94 | \$0.94 | \$0.93 | \$0.96 | \$0.92 | \$0.91 | \$0.90 | -5.7\% | -2.6\% | -1.6\% | -9.7\% |
| Jefferson | \$3.25 | \$3.39 | \$2.97 | \$3.08 | \$2.97 | \$2.91 | \$3.49 | \$4.05 | \$4.27 | \$3.18 | \$3.21 | \$3.07 | \$3.38 | \$3.57 | -8.6\% | 13.9\% | 5.6\% | 9.9\% |
| Knox | \$1.82 | \$1.80 | \$1.75 | \$1.85 | \$1.96 | \$1.95 | \$1.95 | \$1.99 | \$1.95 | \$1.92 | \$1.96 | \$2.00 | \$1.96 | \$1.86 | -4.2\% | 12.5\% | -5.5\% | 1.9\% |
| Lake | \$11.35 | \$11.37 | \$10.34 | \$10.90 | \$11.15 | \$10.78 | \$10.08 | \$10.28 | \$10.22 | \$10.26 | \$10.11 | \$10.31 | \$10.48 | \$10.05 | -8.9\% | 1.4\% | -4.1\% | -11.4\% |
| Lawrence | \$1.05 | \$1.04 | \$1.11 | \$1.21 | \$1.38 | \$1.52 | \$1.41 | \$1.52 | \$1.66 | \$1.70 | \$1.53 | \$1.53 | \$1.64 | \$1.63 | 6.3\% | 47.4\% | -0.4\% | 56.0\% |
| Licking | \$4.86 | \$4.88 | \$4.77 | \$4.85 | \$5.04 | \$5.03 | \$5.05 | \$5.21 | \$5.38 | \$5.46 | \$5.56 | \$5.78 | \$6.14 | \$6.26 | -1.8\% | 28.7\% | 1.9\% | 28.8\% |
| Logan | \$2.12 | \$1.89 | \$1.60 | \$1.74 | \$1.85 | \$1.91 | \$1.97 | \$2.01 | \$1.82 | \$1.84 | \$1.90 | \$1.93 | \$1.91 | \$1.82 | -24.6\% | 19.2\% | -4.8\% | -14.5\% |
| Lorain | \$9.83 | \$9.44 | \$8.69 | \$9.19 | \$9.62 | \$9.90 | \$9.71 | \$9.57 | \$9.58 | \$9.51 | \$9.61 | \$9.63 | \$9.80 | \$9.34 | -11.7\% | 12.8\% | -4.7\% | -5.1\% |
| Lucas | \$23.40 | \$21.67 | \$21.16 | \$21.91 | \$22.87 | \$22.35 | \$23.10 | \$25.01 | \$23.11 | \$22.94 | \$22.93 | \$23.71 | \$24.34 | \$22.94 | -9.6\% | 15.1\% | -5.7\% | -1.9\% |
| Madison | \$1.40 | \$1.36 | \$1.24 | \$1.32 | \$1.45 | \$1.55 | \$1.57 | \$1.62 | \$1.61 | \$1.66 | \$1.75 | \$1.72 | \$1.73 | \$1.78 | -12.0\% | 40.1\% | 2.6\% | 26.5\% |
| Mahoning | \$9.09 | \$9.11 | \$8.50 | \$8.47 | \$8.62 | \$8.61 | \$8.65 | \$8.52 | \$8.47 | \$8.38 | \$8.34 | \$8.42 | \$8.61 | \$8.16 | -6.5\% | 1.3\% | -5.3\% | -10.3\% |
| Marion | \$2.60 | \$2.53 | \$2.41 | \$2.35 | \$2.45 | \$2.46 | \$2.53 | \$2.51 | \$2.62 | \$2.58 | \$2.59 | \$2.60 | \$2.57 | \$2.49 | -7.3\% | 6.4\% | -3.0\% | -4.3\% |
| Medina | \$6.12 | \$6.04 | \$5.95 | \$6.03 | \$6.32 | \$6.13 | \$6.43 | \$6.93 | \$6.63 | \$6.82 | \$6.92 | \$7.10 | \$7.02 | \$6.75 | -2.7\% | 17.9\% | -3.8\% | 10.4\% |
| Meigs | \$0.38 | \$0.34 | \$0.39 | \$0.40 | \$0.38 | \$0.37 | \$0.40 | \$0.36 | \$0.37 | \$0.35 | \$0.34 | \$0.34 | \$0.36 | \$0.35 | 2.2\% | -6.7\% | -3.0\% | -7.5\% |
| Mercer | \$1.60 | \$1.74 | \$1.54 | \$1.63 | \$1.72 | \$1.77 | \$2.03 | \$2.13 | \$2.44 | \$2.27 | \$2.34 | \$2.57 | \$2.25 | \$2.14 | -3.7\% | 45.8\% | -5.0\% | 33.4\% |
| Miami | \$3.74 | \$3.74 | \$3.38 | \$3.58 | \$3.79 | \$3.93 | \$3.88 | \$3.80 | \$3.76 | \$3.79 | \$4.00 | \$4.01 | \$4.02 | \$3.91 | -9.7\% | 18.9\% | -2.8\% | 4.4\% |
| Monroe | \$0.47 | \$0.51 | \$0.52 | \$0.52 | \$0.61 | \$0.66 | \$0.72 | \$0.81 | \$1.07 | \$1.32 | \$1.19 | \$1.28 | \$1.58 | \$1.90 | 10.4\% | 205.5\% | 20.5\% | 306.5\% |
| Montgomery | \$26.25 | \$25.39 | \$23.57 | \$23.96 | \$24.25 | \$24.09 | \$24.23 | \$24.53 | \$24.64 | \$24.91 | \$25.49 | \$26.32 | \$26.95 | \$25.74 | -10.2\% | 14.3\% | -4.5\% | -1.9\% |
| Morgan | \$0.24 | \$0.24 | \$0.25 | \$0.25 | \$0.26 | \$0.26 | \$0.25 | \$0.26 | \$0.28 | \$0.27 | \$0.28 | \$0.28 | \$0.30 | \$0.29 | 1.5\% | 21.8\% | -2.5\% | 20.5\% |
| Morrow | \$0.63 | \$0.57 | \$0.56 | \$0.58 | \$0.62 | \$0.65 | \$0.61 | \$0.62 | \$0.65 | \$0.65 | \$0.58 | \$0.59 | \$0.63 | \$0.63 | -10.4\% | 12.4\% | -0.6\% | 0.0\% |
| Muskingum | \$3.12 | \$2.92 | \$2.91 | \$2.86 | \$3.00 | \$2.95 | \$3.32 | \$3.45 | \$3.43 | \$3.43 | \$3.45 | \$3.41 | \$3.50 | \$3.44 | -6.9\% | 20.5\% | -1.7\% | 10.3\% |
| Noble | \$0.34 | \$0.32 | \$0.31 | \$0.32 | \$0.34 | \$0.35 | \$0.47 | \$0.66 | \$0.91 | \$0.85 | \$0.73 | \$0.64 | \$0.64 | \$0.64 | -8.0\% | 105.1\% | -0.7\% | 87.3\% |
| Ottawa | \$1.76 | \$1.67 | \$1.71 | \$1.63 | \$1.79 | \$1.92 | \$1.91 | \$1.77 | \$1.90 | \$1.86 | \$1.91 | \$1.87 | \$1.92 | \$1.85 | -2.8\% | 12.2\% | -3.4\% | 5.4\% |
| Paulding | \$0.46 | \$0.51 | \$0.49 | \$0.49 | \$0.51 | \$0.52 | \$0.50 | \$0.54 | \$0.47 | \$0.46 | \$0.51 | \$0.55 | \$0.54 | \$0.59 | 5.3\% | 11.7\% | 7.7\% | 26.7\% |
| Perry | \$0.66 | \$0.59 | \$0.60 | \$0.66 | \$0.72 | \$0.68 | \$0.69 | \$0.68 | \$0.67 | \$0.68 | \$0.74 | \$0.70 | \$0.69 | \$0.68 | -9.3\% | 15.6\% | -1.6\% | 3.2\% |
| Pickaway | \$1.63 | \$1.63 | \$1.65 | \$1.69 | \$1.70 | \$1.60 | \$1.56 | \$1.46 | \$1.54 | \$1.53 | \$1.56 | \$1.56 | \$1.63 | \$1.68 | 1.2\% | -1.5\% | 3.2\% | 2.9\% |
| Pike | \$0.98 | \$0.96 | \$0.99 | \$0.94 | \$0.86 | \$1.05 | \$0.98 | \$0.93 | \$0.92 | \$0.94 | \$1.06 | \$1.05 | \$1.03 | \$0.98 | 0.6\% | 4.2\% | -5.1\% | -0.6\% |
| Portage | \$5.35 | \$5.22 | \$4.94 | \$5.13 | \$5.28 | \$5.41 | \$5.50 | \$5.47 | \$5.54 | \$5.52 | \$5.76 | \$5.85 | \$5.82 | \$5.51 | -7.7\% | 17.8\% | -5.3\% | 3.0\% |
| Preble | \$1.04 | \$1.04 | \$0.95 | \$0.98 | \$1.01 | \$1.02 | \$1.02 | \$1.00 | \$1.05 | \$1.00 | \$1.03 | \$1.07 | \$1.06 | \$1.08 | -8.7\% | 10.6\% | 2.7\% | 3.8\% |
| Putnam | \$1.21 | \$1.34 | \$1.22 | \$1.23 | \$1.23 | \$1.25 | \$1.24 | \$1.23 | \$1.18 | \$1.15 | \$1.18 | \$1.17 | \$1.16 | \$1.17 | 0.9\% | -5.4\% | 1.0\% | -3.6\% |
| Richland | \$4.70 | \$4.55 | \$3.86 | \$4.09 | \$4.22 | \$4.28 | \$4.20 | \$4.30 | \$4.24 | \$4.19 | \$4.20 | \$4.29 | \$4.26 | \$4.12 | -17.8\% | 10.3\% | -3.2\% | -12.3\% |
| Ross | \$2.52 | \$2.39 | \$2.29 | \$2.29 | \$2.45 | \$2.40 | \$2.43 | \$2.49 | \$2.50 | \$2.41 | \$2.46 | \$2.52 | \$2.57 | \$2.52 | -9.1\% | 12.3\% | -1.7\% | 0.3\% |
| Sandusky | \$2.45 | \$2.32 | \$2.19 | \$2.23 | \$2.34 | \$2.55 | \$2.66 | \$2.64 | \$2.81 | \$2.74 | \$2.81 | \$2.80 | \$2.72 | \$2.63 | -10.7\% | 24.3\% | -3.4\% | 7.2\% |

Percentage Changes

| Area name | 07 | 08^ | 09^ | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20^* | 07-`09 & `09-`19 & 19-'20 & `07-`20 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ohio | \$546.7 | \$537.1 | \$511.1 | \$524.0 | \$541.2 | \$545.7 | \$556.2 | \$574.2 | \$578.9 | \$583.9 | \$590.7 | \$598.9 | \$611.1 | \$589.9 | -6.5\% | 19.6\% | -3.5\% | 7.9\% |
| Scioto | \$2.12 | \$2.17 | \$2.26 | \$2.14 | \$2.17 | \$2.30 | \$3.00 | \$4.01 | \$3.31 | \$2.65 | \$2.65 | \$2.64 | \$2.84 | \$2.76 | 6.4\% | 25.4\% | -2.6\% | 30.1\% |
| Seneca | \$1.88 | \$1.77 | \$1.64 | \$1.65 | \$1.71 | \$1.57 | \$1.58 | \$1.62 | \$1.70 | \$1.81 | \$1.71 | \$1.71 | \$1.81 | \$1.78 | -12.6\% | 10.5\% | -1.8\% | -5.2\% |
| Shelby | \$3.00 | \$2.85 | \$2.39 | \$2.58 | \$2.82 | \$2.87 | \$2.91 | \$2.95 | \$2.86 | \$2.88 | \$2.91 | \$2.93 | \$2.94 | \$2.94 | -20.4\% | 23.3\% | -0.3\% | -2.2\% |
| Stark | \$14.37 | \$14.21 | \$13.36 | \$13.93 | \$14.40 | \$14.63 | \$15.07 | \$15.72 | \$15.56 | \$15.39 | \$15.64 | \$15.53 | \$15.52 | \$14.74 | -7.0\% | 16.2\% | -5.0\% | 2.6\% |
| Summit | \$26.82 | \$26.51 | \$24.86 | \$25.41 | \$25.38 | \$25.54 | \$25.90 | \$26.55 | \$26.64 | \$26.72 | \$26.88 | \$27.43 | \$27.90 | \$26.38 | -7.3\% | 12.2\% | -5.4\% | -1.6\% |
| Trumbull | \$8.61 | \$8.05 | \$6.80 | \$7.22 | \$7.59 | \$7.33 | \$7.26 | \$7.10 | \$6.94 | \$6.88 | \$6.59 | \$6.57 | \$6.63 | \$6.36 | -21.0\% | -2.6\% | -4.0\% | -26.1\% |
| Tuscarawas | \$3.13 | \$3.05 | \$2.91 | \$3.09 | \$3.23 | \$3.16 | \$3.25 | \$3.44 | \$3.52 | \$3.43 | \$3.54 | \$3.49 | \$3.52 | \$3.40 | -6.9\% | 20.7\% | -3.2\% | 8.7\% |
| Union | \$3.56 | \$3.09 | \$2.80 | \$2.93 | \$3.02 | \$3.04 | \$3.20 | \$3.37 | \$3.43 | \$3.55 | \$3.92 | \$4.05 | \$4.07 | \$4.03 | -21.2\% | 45.2\% | -0.9\% | 13.4\% |
| Van Wert | \$1.09 | \$1.02 | \$0.95 | \$0.99 | \$0.99 | \$1.04 | \$1.06 | \$1.11 | \$1.17 | \$1.21 | \$1.27 | \$1.31 | \$1.21 | \$1.15 | -12.9\% | 27.6\% | -4.5\% | 6.2\% |
| Vinton | \$0.26 | \$0.24 | \$0.24 | \$0.25 | \$0.27 | \$0.26 | \$0.22 | \$0.22 | \$0.22 | \$0.25 | \$0.25 | \$0.27 | \$0.28 | \$0.25 | -7.7\% | 15.2\% | -12.8\% | -7.3\% |
| Warren | \$7.95 | \$7.87 | \$7.67 | \$8.05 | \$8.30 | \$8.54 | \$8.64 | \$9.07 | \$9.34 | \$10.08 | \$10.36 | \$10.71 | \$11.58 | \$11.26 | -3.5\% | 50.9\% | -2.7\% | 41.7\% |
| Washington | \$2.76 | \$2.83 | \$2.82 | \$2.95 | \$3.04 | \$3.11 | \$3.01 | \$3.27 | \$3.44 | \$3.39 | \$3.21 | \$3.11 | \$3.29 | \$3.20 | 2.3\% | 16.4\% | -2.5\% | 16.1\% |
| Wayne | \$4.78 | \$4.62 | \$4.35 | \$4.49 | \$4.65 | \$4.74 | \$5.05 | \$5.32 | \$5.30 | \$5.19 | \$5.53 | \$5.75 | \$5.99 | \$5.74 | -9.1\% | 38.0\% | -4.3\% | 20.1\% |
| Williams | \$1.58 | \$1.55 | \$1.35 | \$1.44 | \$1.50 | \$1.54 | \$1.57 | \$1.58 | \$1.59 | \$1.61 | \$1.61 | \$1.60 | \$1.68 | \$1.59 | -14.3\% | 24.6\% | -5.4\% | 1.0\% |
| Wood | \$6.28 | \$6.23 | \$5.38 | \$5.62 | \$5.86 | \$5.89 | \$5.92 | \$6.20 | \$6.11 | \$6.21 | \$6.34 | \$6.56 | \$6.88 | \$6.75 | -14.4\% | 27.8\% | -1.9\% | 7.4\% |
| Wyandot | \$0.88 | \$0.82 | \$0.77 | \$0.77 | \$0.82 | \$0.85 | \$0.84 | \$0.89 | \$0.84 | \$0.86 | \$0.90 | \$0.96 | \$0.96 | \$0.94 | -12.2\% | 24.3\% | -2.7\% | 6.2\% |

Note: ${ }^{\wedge}$ - a recession year; * - initial; earlier years may be revised
Source: U.S. BEA, Table CAGDP9 (2021).
Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 1/22).

Population and Aggregate GDP Growth Rates, 2000-2020


Sources: U.S. BEA and U.S. Census Bureau

Table A23: GDP and Population in Ohio and the U.S., 2000-2020

| Variable | Area | 2000 | 2001^ | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008^ | 2009^ | 2010 | 2011 | 2012 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GDP (in billions, | U.S. | \$13,138.0 | \$13,263.4 | \$13,488.4 | \$13,865.5 | \$14,399.7 | \$14,901.3 | \$15,315.9 | \$15,623.9 | \$15,643.0 | \$15,236.3 | \$15,649.0 | \$15,891.5 | \$16,254.0 |
| standardized on 2012) | Ohio | \$509.9 | \$503.0 | \$513.2 | \$519.9 | \$534.1 | \$546.0 | \$545.5 | \$546.7 | \$537.1 | \$511.1 | \$524.0 | \$541.2 | \$545.7 |
| Per Capita GDP | U.S. | \$46,562 | \$46,543 | \$46,896 | \$47,794 | \$49,178 | \$50,424 | \$51,330 | \$51,867 | \$51,441 | \$49,666 | \$50,591 | \$51,007 | \$51,792 |
| (standardized on 2012) | Ohio | \$44,876 | \$44,169 | \$44,988 | \$45,470 | \$46,634 | \$47,627 | \$47,513 | \$47,540 | \$46,644 | \$44,330 | \$45,408 | \$46,877 | \$47,255 |
| Absolute GDP - Indexed | U.S. | 100.0 | 101.0 | 102.7 | 105.5 | 109.6 | 113.4 | 116.6 | 118.9 | 119.1 | 116.0 | 119.1 | 121.0 | 123.7 |
| Per Capita GDP - Indexed | U.S. | 100.0 | 100.0 | 100.7 | 102.6 | 105.6 | 108.3 | 110.2 | 111.4 | 110.5 | 106.7 | 108.7 | 109.5 | 111.2 |
| Absolute GDP - Indexed | Ohio | 100.0 | 98.6 | 100.6 | 102.0 | 104.7 | 107.1 | 107.0 | 107.2 | 105.3 | 100.2 | 102.8 | 106.1 | 107.0 |
| Per Capita GDP - Indexed | Ohio | 100.0 | 98.4 | 100.2 | 101.3 | 103.9 | 106.1 | 105.9 | 105.9 | 103.9 | 98.8 | 101.2 | 104.5 | 105.3 |


| Variable | Area | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020^* | Net Change: `00-07} & \multicolumn{2}{\|l|}{Net Change: \({ }^{\text {`07-09 }}\) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  | Number | Percent | Number | Percent |
| GDP (in billions, | U.S. | \$16,553.3 | \$16,932.1 | \$17,390.3 | \$17,680.3 | \$18,079.1 | \$18,606.8 | \$19,032.7 | \$18,384.7 | \$2,485.8 | 18.9\% | -\$387.6 | -2.5\% |
| standardized on 2012) | Ohio | \$556.2 | \$574.2 | \$578.9 | \$583.9 | \$590.7 | \$598.9 | \$611.1 | \$589.9 | \$36.8 | 7.2\% | -\$35.7 | -6.5\% |
| Per Capita GDP | U.S. | \$52,385 | \$53,195 | \$54,237 | \$54,748 | \$55,630 | \$56,956 | \$57,984 | \$55,798 | \$5,304.7 | 11.4\% | -\$2,200.2 | -4.2\% |
| (standardized on 2012) | Ohio | \$48,046 | \$49,487 | \$49,826 | \$50,191 | \$50,665 | \$51,293 | \$52,283 | \$50,448 | \$2,663.8 | 5.9\% | -\$3,209.7 | -6.8\% |
| Absolute GDP - Indexed | U.S. | 126.0 | 128.9 | 132.4 | 134.6 | 137.6 | 141.6 | 144.9 | 139.9 | 18.9 |  | -3.0 |  |
| Per Capita GDP - Indexed | U.S. | 112.5 | 114.2 | 116.5 | 117.6 | 119.5 | 122.3 | 124.5 | 119.8 | 11.4 |  | -4.7 |  |
| Absolute GDP - Indexed | Ohio | 109.1 | 112.6 | 113.5 | 114.5 | 115.8 | 117.4 | 119.8 | 115.7 | 7.2 |  | -7.0 |  |
| Per Capita GDP - Indexed | Ohio | 107.1 | 110.3 | 111.0 | 111.8 | 112.9 | 114.3 | 116.5 | 112.4 | 5.9 |  | -7.2 |  |


| Variable | Net Change: `09-'19} & \multicolumn{2}{\|l|}{Change: ` $19-20^{*}$ |  |  | Net Change: ${ }^{\circ} 00-{ }^{\prime} 0^{*}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Area | Number | Percent | Number | Percent | Number | Percent |
| GDP (in billions, standardized on 2012) | U.S. | \$3,796.4 | 24.9\% | -\$648.0 | -3.4\% | \$5,246.7 | 39.9\% |
|  | Ohio | \$100.1 | 19.6\% | -\$21.2 | -3.5\% | \$79.9 | 15.7\% |
| Per Capita GDP (standardized on 2012) | U.S. | \$8,317.6 | 16.7\% | -\$2,185.7 | -3.8\% | \$9,236.4 | 19.8\% |
|  | Ohio | \$7,953.3 | 17.9\% | -\$1,835.5 | -3.5\% | \$5,572.0 | 12.4\% |
| Absolute GDP - Indexed Per Capita GDP - Indexed | U.S. | 28.9 |  | -4.9 |  | 39.9 |  |
|  | U.S. | 17.9 |  | -4.7 |  | 19.8 |  |
| Per Capita GDP - Indexed Absolute GDP - Indexed | Ohio | 19.6 |  | -4.2 |  | 15.7 |  |
| Per Capita GDP - Indexed | Ohio | 17.7 |  | -4.1 |  | 12.4 |  |

Note: ^ - a recession year for the nation; * - initial, earlier years may be revised. Sources: U.S. Bureau of the Census (2021), U.S. BEA (2021).
Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 2/22).

| 2012 NAICS | Major Industry Titles | Ohio |  |  | U.S. |  |  | 2000 <br> Ohio::U.S. <br> Concentration Ratio ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & 2000 \text { Value } \\ & \text { (in millions) }^{1} \end{aligned}$ | 2000 Percent of the Economy ${ }^{1}$ |  | $\begin{aligned} & 2000 \text { Value } \\ & \text { (in millions) }^{1} \end{aligned}$ | 2000 Percent of the Economy ${ }^{1}$ | Real Growth to $2020^{2}$ $\qquad$ |  |
| 11-92 | Total | \$343,467 | 100.00\% | 15.7\% | \$8,577,552 | 100.00\% | 39.9\% | 1.00 |
| Slower-Growi | Declining Industries ${ }^{2}$ Not Concentrated in Ohio in 2000 | \$116,188 | 29.62\% | -10.0\% | \$3,564,473 | 34.77\% | 4.0\% | 0.85 |
| 212 | Mining, exc. oil \& gas | \$1,006 | 0.26\% | -65.1\% | \$28,506 | 0.28\% | -35.2\% | 0.92 |
| 81 | Other srvcs., exc. government | \$10,537 | 2.69\% | -36.3\% | \$279,672 | 2.73\% | -25.1\% | 0.98 |
| 313-4 | Textile \& textile product mills | \$502 | 0.13\% | -35.9\% | \$27,980 | 0.27\% | -52.3\% | 0.47 |
| 721 | Accommodation | \$1,485 | 0.38\% | -33.7\% | \$93,319 | 0.91\% | -21.2\% | 0.42 |
| 23 | Construction | \$16,257 | 4.14\% | -31.3\% | \$461,244 | 4.50\% | -16.8\% | 0.92 |
| 5411 | Legal srvcs. | \$3,224 | 0.82\% | -24.7\% | \$129,128 | 1.26\% | -13.0\% | 0.65 |
| 722 | Food srvcs. \& drinking places | \$7,104 | 1.81\% | -14.7\% | \$194,178 | 1.89\% | -4.7\% | 0.96 |
| 485 | Transit \& ground passenger transportation | \$289 | 0.07\% | -13.0\% | \$18,451 | 0.18\% | 14.3\% | 0.41 |
| 92sl | State \& local government | \$34,392 | 8.77\% | -10.0\% | \$899,491 | 8.77\% | 8.0\% | 1.00 |
| 321 | Wood products | \$1,052 | 0.27\% | -2.5\% | \$28,304 | 0.28\% | 12.2\% | 0.97 |
| 61 | Educational srvcs. | \$2,893 | 0.74\% | -0.7\% | \$95,224 | 0.93\% | 33.2\% | 0.79 |
| 92fc, 491 | Federal civilian (inc. Postal Service) | \$7,091 | 1.81\% | 6.2\% | \$248,425 | 2.42\% | 19.8\% | 0.75 |
| 711-2 | Performing arts, museums \& related activities | \$1,303 | 0.33\% | 6.9\% | \$49,295 | 0.48\% | 3.8\% | 0.69 |
| 92811 | Military | \$2,532 | 0.65\% | 11.2\% | \$175,111 | 1.71\% | 14.8\% | 0.38 |
| 523 | Securities, commodity contracts, investments | \$2,034 | 0.52\% | 16.8\% | \$133,374 | 1.30\% | 22.5\% | 0.40 |
| 42 | Wholesale trade | \$23,326 | 5.95\% | 20.9\% | \$622,520 | 6.07\% | 35.0\% | 0.98 |
| 481 | Air transportation | \$1,003 | 0.26\% | 32.0\% | \$58,099 | 0.57\% | -21.5\% | 0.45 |
| 315-6 | Apparel, leather \& allied products | \$159 | 0.04\% | 37.1\% | \$22,152 | 0.22\% | -57.1\% | 0.19 |
| Slower-Growing/Declining Industries ${ }^{2}$ Concentrated in Ohio in 2000 |  | \$140,459 | 35.81\% | 3.0\% | \$2,673,912 | 26.08\% | 15.4\% | 1.37 |
| 525 | Funds, trusts \& other financial vehicles | \$1,008 | 0.26\% | -86.1\% | \$15,236 | 0.15\% | 7.4\% | 1.73 |
| 337 | Furniture \& related products | \$1,489 | 0.38\% | -45.7\% | \$33,513 | 0.33\% | -33.6\% | 1.16 |
| 482 | Rail transportation | \$902 | 0.23\% | -36.8\% | \$23,289 | 0.23\% | -27.1\% | 1.01 |
| 332 | Fabricated metal products | \$10,436 | 2.66\% | -35.8\% | \$121,278 | 1.18\% | -20.7\% | 2.25 |
| 713 | Amusements, gambling \& recreation | \$2,827 | 0.72\% | -31.6\% | \$49,677 | 0.48\% | -12.4\% | 1.49 |
| 322 | Paper | \$2,594 | 0.66\% | -26.4\% | \$62,173 | 0.61\% | -22.1\% | 1.09 |
| 3361-3 | Motor vehicles, bodies, trailers \& parts | \$17,962 | 4.58\% | -25.3\% | \$137,497 | 1.34\% | 38.9\% | 3.41 |
| 326 | Plastics \& rubber products | \$5,953 | 1.52\% | -20.3\% | \$65,527 | 0.64\% | -1.9\% | 2.37 |
| 327 | Nonmetallic mineral products | \$3,317 | 0.85\% | -17.8\% | \$42,610 | 0.42\% | 0.6\% | 2.03 |
| 335 | Electrical eqpt. \& appliances | \$4,354 | 1.11\% | -15.1\% | \$45,661 | 0.45\% | 6.3\% | 2.49 |
| 323 | Printing \& related support activities | \$2,173 | 0.55\% | -13.6\% | \$43,678 | 0.43\% | -5.9\% | 1.30 |
| 333 | Machinery | \$6,780 | 1.73\% | -11.9\% | \$113,059 | 1.10\% | -1.2\% | 1.57 |
| 22 | Utilities | \$7,377 | 1.88\% | -9.9\% | \$180,060 | 1.76\% | 15.7\% | 1.07 |


| 2012 NAICS |  | Ohio |  |  | U.S. |  |  | 2000 <br> Ohio::U.S. <br> Concentration Ratio ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Major Industry Titles | 2000 Value (in millions) ${ }^{1}$ | 2000 Percent of the Economy ${ }^{1}$ |  | 2000 Value (in millions) ${ }^{1}$ | 2000 Percent of the Economy ${ }^{1}$ |  |  |
| Slower-Growing/Declining Industries ${ }^{2}$ Concentrated in Ohio in 2000 (continued) |  |  |  |  |  |  |  |  |
| 623 | Nursing \& residential care facilities | \$3,784 | 0.96\% | -8.09\% | \$69,124 | 0.67\% | 13.76\% | 1.41 |
| 487-8, 492 | Other transportation \& support activities | \$2,621 | 0.67\% | -6.98\% | \$65,846 | 0.64\% | 4.79\% | 1.31 |
| 484 | Truck transportation | \$4,973 | 1.27\% | -5.0\% | \$98,022 | 0.96\% | 1.5\% | 1.45 |
| 3364-9 | Other transportation eqpt. | \$3,837 | 0.98\% | 8.4\% | \$71,099 | 0.69\% | 20.7\% | 1.61 |
| 44-45 | Retail trade | \$28,350 | 7.23\% | 8.8\% | \$685,404 | 6.69\% | 33.0\% | 1.10 |
| 311-2 | Food, beverage \& tobacco products | \$6,494 | 1.66\% | 16.7\% | \$163,183 | 1.59\% | 9.2\% | 0.87 |
| 562 | Waste management \& remediation srvcs. | \$1,070 | 0.27\% | 18.6\% | \$26,137 | 0.25\% | 21.7\% | 1.07 |
| 325 | Chemical | \$7,477 | 1.91\% | 41.2\% | \$187,845 | 1.83\% | 13.5\% | 1.00 |
| 324 | Petroleum \& coal products | \$2,033 | 0.52\% | 57.0\% | \$52,680 | 0.51\% | 33.9\% | 1.12 |
| 521-2 | Federal Reserve banks, credit intermediation, etc. | \$12,651 | 3.22\% | 68.0\% | \$321,314 | 3.13\% | 25.1\% | 1.06 |
| Faster-Growing Industries ${ }^{2}$ Not Concentrated in Ohio in 2000 |  | \$87,942 | 22.42\% | 49.7\% | \$3,014,901 | 29.41\% | 95.4\% | 0.76 |
| 483 | Water transportation | \$254 | 0.06\% | -31.1\% | \$8,046 | 0.08\% | 97.7\% | 0.79 |
| 512 | Motion pictures \& sound recordings | \$400 | 0.10\% | -18.6\% | \$54,142 | 0.53\% | 63.6\% | 0.89 |
| 532-3 | Rental \& leasing srvcs. \& lessors of intangible assets | \$4,760 | 1.21\% | -10.1\% | \$135,812 | 1.32\% | 42.1\% | 0.78 |
| 339 | Miscellaneous mfg. | \$1,955 | 0.50\% | 19.8\% | \$59,212 | 0.58\% | 45.8\% | 0.82 |
| 531 | Real estate | \$37,777 | 9.63\% | 23.0\% | \$1,094,490 | 10.68\% | 51.2\% | 0.86 |
| 5412-4, 6-9 | Other professional, scientific \& technical srvcs. | \$11,830 | 3.02\% | 25.4\% | \$408,522 | 3.99\% | 66.2\% | 0.40 |
| 624 | Social assistance | \$1,656 | 0.42\% | 30.0\% | \$52,604 | 0.51\% | 41.0\% | 0.20 |
| 561 | Administrative \& support srvcs. | \$9,482 | 2.42\% | 35.1\% | \$255,924 | 2.50\% | 67.7\% | 0.64 |
| 515, 517 | Broadcasting \& telecommunications | \$7,379 | 1.88\% | 60.3\% | \$276,899 | 2.70\% | 139.3\% | 0.83 |
| 113-5 | Forestry, fishing \& related activities | \$263 | 0.07\% | 65.4\% | \$22,262 | 0.22\% | 40.4\% | 0.40 |
| 111-2 | Crop \& animal production (farms) | \$1,771 | 0.45\% | 75.3\% | \$76,044 | 0.74\% | 61.7\% | 0.71 |
| 511 | Publishing (inc. sofware, exc. Internet) | \$2,774 | 0.71\% | 86.1\% | \$115,874 | 1.13\% | 171.1\% | 0.49 |
| 334 | Computer \& electronic products | \$3,493 | 0.89\% | 188.6\% | \$225,333 | 2.20\% | 420.0\% | 1.04 |
| 5415 | Computer systems design \& related srvcs. | \$2,984 | 0.76\% | 295.6\% | \$114,079 | 1.11\% | 374.5\% | 0.69 |
| 213 | Support activities for mining | \$80 | 0.02\% | 344.3\% | \$13,824 | 0.13\% | 70.6\% | 0.43 |
| 486 | Pipeline transportation | \$125 | 0.03\% | 451.2\% | \$9,361 | 0.09\% | 88.1\% | 0.77 |
| 518, 519 | Data prcsng., hosting, other info. (inc. Internet) | \$502 | 0.13\% | 650.3\% | \$24,262 | 0.24\% | 1353.5\% | 0.70 |
| 211 | Oil \& gas extraction | \$456 | 0.12\% | 1076.5\% | \$68,211 | 0.67\% | 198.4\% | 0.36 |


| 2012 NAICS <br> Codes | Major Industry Titles | Ohio |  |  | U.S. |  |  | 2000 <br> Ohio::U.S. <br> Concentration <br> Ratio ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2000 Value (in millions) ${ }^{1}$ | 2000 Percent of the Economy ${ }^{1}$ | Real Growth to $2020^{2}$ | 2000 Value (in millions) ${ }^{1}$ | 2000 Percent of the Economy ${ }^{1}$ | Real Growth to 2020 |  |
| Faster-Growing Industries ${ }^{2}$ Concentrated in Ohio in 2000 |  | \$47,688 | 12.16\% | 63.1\% | \$997,663 | 9.73\% | 70.5\% | 1.25 |
| 331 | Primary metals | \$6,511 | 1.66\% | -11.5\% | \$47,029 | 0.46\% | 50.2\% | 3.62 |
| 622 | Hospitals | \$8,831 | 2.25\% | 44.6\% | \$190,078 | 1.85\% | 53.0\% | 1.21 |
| 621 | Ambulatory health care srvcs. | 11632.5 | 2.97\% | 59.34\% | \$288,334 | 2.81\% | 88.55\% | 1.05 |
| 524 | Insurance carriers \& related activities | \$12,029 | 3.07\% | 79.8\% | \$274,434 | 2.68\% | 68.4\% | 1.15 |
| 55 | Management of companies \& enterprises | \$7,565 | 1.93\% | 99.2\% | \$171,128 | 1.67\% | 58.5\% | 1.16 |
| 493 | Warehousing \& storage | \$1,118 | 0.29\% | 264.0\% | \$26,660 | 0.26\% | 197.0\% | 1.10 |

Notes: 1 - in or based on current dollars, but components may not sum to totals due to rounding; 2 - based on national industry change figures after adjusting for inflation, then grouped on slower or faster than the national average of 56.7 percent.

Abbreviations used: eqpt. - equipment; exc. - except; inc. - including; info. - information; mfg. - manufacturing; prcsng. - processing; srvcs. - services.
Source: U.S. BEA (2021).
Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 2/22).

Table A25: Percentage Changes in Ohio and U.S. GDP by Industry, 2000-2020 (standardized on 2012)

|  |  |  | U.S. |  |  | Ohio |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2012 |  | Real GDP | (millions) | Percent | Real GDP | (millions) | Percent |
| NAICS Codes | Industry Titles | 2000 | 2020 | $\begin{array}{r} \text { Change } \\ 2000-2020 \\ \hline \end{array}$ | 2000 | 2020 | $\begin{array}{r} \text { Change } \\ 2000-2020 \\ \hline \end{array}$ |
| 11-92 | Total | \$13,138,035 | \$18,384,687 | 39.9\% | \$509,949 | \$589,898 | 15.7\% |
| 111-2 | Crop \& animal production (farms) | \$136,645 | \$221,020 | 61.7\% | \$3,145 | \$5,514 | 75.3\% |
| 113-5 | Forestry, fishing \& related activities | \$25,064 | \$35,180 | 40.4\% | \$297 | \$490 | 65.4\% |
| 211 | Oil \& gas extraction | \$137,484 | \$410,248 | 198.4\% | \$919 | \$10,808 | 1076.5\% |
| 212 | Mining, exc. oil \& gas | \$92,490 | \$59,909 | -35.2\% | \$3,264 | \$1,138 | -65.1\% |
| 213 | Support activities for mining | \$18,746 | \$31,979 | 70.6\% | \$108 | \$480 | 344.3\% |
| 23 | Construction | \$781,608 | \$650,436 | -16.8\% | \$27,549 | \$18,938 | -31.3\% |
| 321 | Wood products | \$25,333 | \$28,436 | 12.2\% | \$941 | \$917 | -2.5\% |
| 327 | Nonmetallic mineral products | \$49,064 | \$49,351 | 0.6\% | \$3,820 | \$3,140 | -17.8\% |
| 331 | Primary metals | \$60,671 | \$91,099 | 50.2\% | \$8,400 | \$7,438 | -11.5\% |
| 332 | Fabricated metal products | \$155,446 | \$123,262 | -20.7\% | \$13,376 | \$8,584 | -35.8\% |
| 333 | Machinery | \$129,797 | \$128,182 | -1.2\% | \$7,783 | \$6,860 | -11.9\% |
| 334 | Computer \& electronic products | \$67,491 | \$350,963 | 420.0\% | \$1,046 | \$3,020 | 188.6\% |
| 335 | Electrical eqpt. \& appliances | \$54,315 | \$57,752 | 6.3\% | \$5,180 | \$4,396 | -15.1\% |
| 3361-3 | Motor vehicles, bodies, trailers \& parts | \$99,496 | \$138,171 | 38.9\% | \$12,997 | \$9,709 | -25.3\% |
| 3364-9 | Other transportation eqpt. | \$95,217 | \$114,928 | 20.7\% | \$5,138 | \$5,572 | 8.4\% |
| 337 | Furniture \& related products | \$40,032 | \$26,577 | -33.6\% | \$1,778 | \$966 | -45.7\% |
| 339 | Miscellaneous mfg. | \$60,970 | \$88,916 | 45.8\% | \$2,013 | \$2,412 | 19.8\% |
| 311-2 | Food, beverage \& tobacco products | \$224,573 | \$245,216 | 9.2\% | \$8,937 | \$10,428 | 16.7\% |
| 313-4 | Textile \& textile product mills | \$30,761 | \$14,675 | -52.3\% | \$552 | \$354 | -35.9\% |
| 315-6 | Apparel, leather \& allied products | \$19,960 | \$8,562 | -57.1\% | \$144 | \$197 | 37.1\% |
| 322 | Paper | \$70,826 | \$55,195 | -22.1\% | \$2,955 | \$2,174 | -26.4\% |
| 323 | Printing \& related support activities | \$37,657 | \$35,426 | -5.9\% | \$1,874 | \$1,618 | -13.6\% |
| 324 | Petroleum \& coal products | \$183,781 | \$246,115 | 33.9\% | \$7,092 | \$11,132 | 57.0\% |
| 325 | Chemical | \$288,703 | \$327,581 | 13.5\% | \$11,492 | \$16,221 | 41.2\% |
| 326 | Plastics \& rubber products | \$76,930 | \$75,490 | -1.9\% | \$6,988 | \$5,570 | -20.3\% |
| 22 | Utilities | \$258,035 | \$298,558 | 15.7\% | \$10,571 | \$9,529 | -9.9\% |
| 42 | Wholesale trade | \$803,120 | \$1,083,851 | 35.0\% | \$30,093 | \$36,378 | 20.9\% |
| 44-45 | Retail trade | \$820,161 | \$1,090,497 | 33.0\% | \$33,924 | \$36,902 | 8.8\% |
| 481 | Air transportation | \$75,866 | \$59,553 | -21.5\% | \$1,309 | \$1,728 | 32.0\% |

Table A25: Percentage Changes in Ohio and U.S. GDP by Industry, 2000-2020 (standardized on 2012)


Table A25: Percentage Changes in Ohio and U.S. GDP by Industry, 2000-2020 (standardized on 2012)

|  |  |  | U.S. |  |  | Ohio |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2012 |  | Real GDP | (millions) | Percent | Real GDP | millions) | Percent |
| NAICS |  |  |  | Change |  |  | Change |
| Codes | Industry Titles | 2000 | 2020 | 2000-2020 | 2000 | 2020 | 2000-2020 |
| 722 | Food srvcs. \& drinking places | \$297,660 | \$283,537 | -4.7\% | \$10,891 | \$9,289 | -14.7\% |
| 81 | Other srvcs., exc. government | \$431,283 | \$322,972 | -25.1\% | \$16,249 | \$10,351 | -36.3\% |
| 92fc, 491 | Federal civilian (inc. Postal Service) | \$365,943 | \$438,306 | 19.8\% | \$10,445 | \$11,094 | 6.2\% |
| 92811 | Military | \$257,948 | \$295,999 | 14.8\% | \$3,729 | \$4,145 | 11.2\% |
| 92s | State \& local government | \$1,354,270 | \$1,462,444 | 8.0\% | \$51,781 | \$46,594 | -10.0\% |

Notes: * - exc. - except; inc. - including; info. - information; mfg. - manufacturing; prcsng. - processing; srvcs. - services; figures do not sum to totals due to rounding and/or different inflators or deflators used for different industries.

Source: U.S. BEA (2021).
Prepared by: Office of Research, Ohio Dept. of Development. Telephone 614-466-2116 (DL, 2/22).

## NOTES

1 S. Africa's higher rank is due to the combination of its larger population - about 51,835,000 in 2020 (U.S. CIA, 2020) - and its economic development level; the U.A.E.'s rank largely reflects its status as a one of the world's major oil and gas producers. Including the European Union (EU) would place it third on the country list with a GDP of $\$ 20,918.1$ billion (the United Kingdom is no longer a member), lowering other countries and Ohio a notch. While the EU is not a nation, it is far more than a free-trade association such as the USMCA (NAFTA's successor), Mercosur or ASEAN. It has some national characteristics: a flag, law-making abilities - including import customs diplomatic representation, and a common foreign and security policy in its dealings with external partners. Its economy is an internal single market with free movement for goods, services, capital and labor, with a common currency for most members (principally drawn from Wikipedia, 2020, which cites other sources). All international GDP figures use a Purchasing Power Parity (PPP) basis expressed in international dollars. The CIA explains:
"A nation's GDP at [PPP] exchange rates is the sum value of all goods and services produced in the country valued at prices prevailing in the United States... This is the measure most economists prefer when looking at per-capita welfare and when comparing living conditions or use of resources across countries. The measure is difficult to compute, as a US dollar value has to be assigned to all goods and services in the country regardless of whether these goods and services have a direct equivalent in the United States (for example, the value of an oxcart or non-US military equipment); as a result, PPP estimates for some countries are based on a small and sometimes different set of goods and services. In addition, many countries do not formally participate in the World Bank's PPP project that calculates these measures, so the resulting GDP estimates for these countries may lack preci-sion. For many developing countries, PPP-based GDP measures are multiples of the official ex-change rate (OER) measure. The differences between the OER- and PPP-denominated GDP values for most of the wealthy industrialized countries are generally much smaller" (U.S. CIA, 2020).

Another reason PPPs are preferred over OERs is because the latter are subject to international and domestic financial forces not capturing the value of domestic output. University of Pennsylvania Professors Summers and Heston and their colleagues pioneered research in PPP figures.

County ranks for sectors may be apparent because figures are not always published for all 88 counties; some are unpublished to maintain confidentiality of local producers and/or suppliers.

3 The choice of start and end points for a period can affect how changes during that time are viewed. What looks like a trend with one set of points for one time-period may appear as a random fluctuation with another set of points.
for another, overlapping time-period. This is particularly true when the time periods are short. Furthermore, initial figures usually are revised when additional information becomes available later, and interpretations of figures may consequently change. (Appelbaum, 2011, has an illustrating, more detailed discussion.) Caution is warranted.

Table A17 and the related graph on page 154 illustrate the strong association between the percentages of GDP and value-added (VA - essentially the value of shipments minus the costs of labor and materials) coming from Ohio for the 19 major manufacturing industries and clusters used by the BEA. The association is strong because GDP calculations start with the Census Bureau's VA estimates; they differ a bit because the BEA subtracts additional costs such as purchased services, which may vary by industry. The strength of this association means that the VA percentages calculated for manufacturing industry groups, shown in Appendix Table A18, are very good proxies for percentages of GDP. Similarly, and more widely applicable, Appendix Table A19 and the related graph on page 161 show the association between concentration ratios based on the private sector GDP and correspond-ing County Business Patterns (CBP) employment figures (farms and railroads are excluded from both). This strong association means CBP concentration ratios for industry groups shown in Appendix Table A20 generally are good proxies for GDP data. VA and CBP data specify our understanding of sectors and major industries concentrated in Ohio and may point to groups that are exceptions in sectors and major industries not concentrated here. More specific (i.e., 5 - and 6 -digit) industry data are available from CBP and the quinquennial Census of Manufactures, but space limitations, data suppression and timeliness issues usually preclude their use herein.

The engines-turbines-power transmission group includes all diesel engines (333618) - even those for motor vehicles - but otherwise excludes motor vehicle parts. It also excludes equipment for transmitting electricity.

Comparing food-beverage-tobacco product output in Ohio with the nation is subject to the caveat that the Census Bureau finds no or a vanishingly small level of tobacco product manufacturing in Ohio, depending on the source. This difference is minor, though, because tobacco product (3122) value-added and employment figures were 9.6 and 0.7 percent, respectively, of the encompassing U.S. food-beverage-tobacco product (311-2) cluster figures in 2019 (U.S. Census Bureau, 2021a, 2021b).

Examples of support activities include fee or contract-based exploring, drilling, coring, testing and/or making geological observations independently from the companies extracting the material.

The rise in construction activity from 1997 through 1999 also is consistent with the rising number of building permits during the same years (U.S. BEA, 2021; U.S. Bureau of the Census, n.d.).

The U.S. BEA (2021) groups the U.S. Postal Service (491), which may be seen as a specialized transportation service, with the civilian side of the federal government (92c) in its industry statistics.

Sightseeing establishments (487) serve tourists, and therefore are not part of the logistical cluster. However, those services are a tiny fraction of this cluster as judged by employment; the vast majority of employees work either for courier and delivery services (492), which use any transportation mode (but depend heavily on trucks), or support establishments (488). The last include arranging freight transportation, airport operations, air traffic control, cratingpacking and cargo-handling, port operations, towing, and navigational, courier and railroad car services, etc. (Office of Management and Budget, 2007).

Rail and water transportation services carry some passengers, but the Association of American Railroads (2019) emphasizes moving freight, and CBP data for water transportation show most are employed in moving cargo (U.S. Bureau of the Census, 2021b). Commuter rail and ship-based sightseeing services are classified in 485 and 487 (Office of Management and Budget, 2007).

Amazon shifted some operations to Cincinnati International (CVG) in northern Kentucky in 2017 (Wikipedia, 2019) while continuing using facilities and services at Wilmington Air Park (Livingston, 2019).

Rail services include maintaining and repairing equipment as well as terminal operations. Other transportation support activities include packing and crating, arranging van and carpools, operating independent pipeline terminal facilities, stockyards, etc. (Office of Management and Budget, 2007).

County Business Patterns data show most people employed in air transportation work in the passenger side of the industry rather than in air freight (U.S. Bureau of the Census, 2021b).

Lenze (2016: 4) notes improved geo-coding and editing of source data from IRS Form 1065 (partnership returns) and Form 1040 Schedule C (sole proprietor returns). (Thanks to Lam Cao of the BEA for this reference.) This explains why the pattern differs from the corresponding national pattern of expansion from 2007 to 2008, a trough from 2009 through 2011, followed by expansion to 2017. Employment trends may bolster the argument this is an accounting anomaly. BEA Ohio employment data show jobs in broadcasting and telecommunications (NAICS 515 and 517) decreasing over the decade almost without interruption, roughly from 9,900 to 7,700 and 36,500 to 28,700, respectively (U.S. BEA, 2021).

The BEA imputes the rental value of owner-occupied housing, treating homeowners as businesses paying rent to themselves. Therefore, homeowners contribute to the real estate industry's GDP even if not employed by the industry. In addition, like businesses, homeowners' property taxes paid to state and local governments are included as part of taxes on production and imports for the real estate industry (U.S. BEA, 2021).

Managing offices differ from holding companies; the latter hold an equity interest to control or influence company management, but do not manage specific company establishments (Office of Management and Budget, 2007).

2019 employment data from the U.S. Bureau of Labor Statistics (2021) provide further insight into government activities (NAICS code 92). Government employment across federal, state and local levels averaged 791,300. Of that number, $711,700-89.9$ percent - worked for state or local government agencies. 395,200-55.5 percent of the 711,700 - worked for taxpayer-supported elementary, secondary and post-secondary educational organizations. Most of the remaining 316,500 state and local government employees worked in law and public safety (cor-rections, judicial, legal, police and firefighters), public welfare/social insurance, transportation-related services, util-ities, health care and general administration. Private sector provision of the same or similar services are classified in parts of other sectors: utilities (22), transportation (48), administrative-support/waste management-remediation (56), education (61), and health care and social assistance (62).

The chart covers at least 94.7 percent of either economy at the most detailed levels available from the BEA. The exceptions not shown are outliers where growth was extreme and/or differences in magnitude were striking:

|  | $\frac{\text { in Ohio }}{}$ | in the U.S. |
| :--- | ---: | ---: |
|  | $1,076.5 \%$ | $198.4 \%$ |
| 213: Support activities for mining | $344.3 \%$ | $70.6 \%$ |
| 334: Computer and electronic products manufacturing | $188.6 \%$ | $420.0 \%$ |
| 486: Pipeline transportation | $451.2 \%$ | $88.1 \%$ |
| 518-9: Data processing, hosting and other information services | $650.3 \%$ | $1,353.5 \%$ |

These contrasts are remarkable and indicate the largest structural changes in the respective economies, but the collective contribution of the five was less than 3.9 percent of either economy (U.S. BEA, 2021).

Moody's (2021) also notes the high degree of similarity between economic changes in Ohio and the U.S.
Economic forecasts, though, are often imprecise due to any number of factors. Among them are the impacts of technological advances and unforeseeable events, limited data, an incomplete understanding of the economy, and assumptions about the economy that may not be entirely justified. This imprecision also means that recessions are difficult to predict.

Other factors to consider are variations in capacity utilization rates - particularly important in goods-producing sectors - and the number of hours worked. Both affect output even if the number of employees does not change. In a similar vein, the increase in real estate-rental-leasing may be more indicative of growing home ownership than anything else, which has little to do with industry jobs.

Projections and forecasts are based on explicit and implicit assumptions that may or may not be justified. Furthermore, variations in expansion and contraction cycles and unforeseen developments can impact growth rates - and the last may vary in their impact between the national and local levels. Consequently, it is advisable to think of pro-jections and forecasts as contingent possibilities extrapolated from the recent past and not as precise certainties. In that sense, percentage changes may be more useful than the absolute unrounded numbers (unlike previous pro-jections) because the former facilitate state and national comparisons and the latter give an unwarranted sense of precision.

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[^0]:    Notes and abbreviations: ${ }^{\wedge}$ - totals for the U.S. include domestic and foreign activities; however, foreign activities are not allocated to the states or the District of Columbia, components may not sum to totals due to rounding; * excludes Postal Service (491); exc. - except; inc. - including; info. - information; $p$ - part; prcsng. - processing; srvcs. - services.

