

# County Occupational Estimates

# County Occupational Estimates

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- New reports providing estimates of occupational employment for counties.
  - Does NOT include wage estimates.
  - Does NOT include employment projections.
- Builds on data from the Occupational Employment Statistics program, but the estimates are different.
- This method has limitations users should be aware of.

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**Ohio Shale Reports**

- Examination of quarterly and annual industry and employment changes for select oil and gas industries.

**Ohio County Occupational Estimates Reports**

- Estimates of employment counts by occupation at the S

# Labor Market Data

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- Labor Force Data
  - Counties, Cities and towns > 25,000
- Industry Data
  - QCEW – Counties
    - Census' Quarterly Workforce Indicators – Counties
    - Census' On-the-Map – Counties, census blocks
- Occupational Data
  - OES – MSAs and JobsOhio regions

# Occupational Employment Statistics

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- Large samples of employers by industry, size, and location.
- Multiple samples combined to make annual wage and employment estimates.
- Despite this approach, not enough data for reliable estimates for many counties.

# Industry-Occupation Matrix

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- A by-product of the data collection is the Industry-Occupation Matrix.
- IO Matrix tells us what occupations are employed in which industries and in what proportions.
- Data for a single industry is called a staffing pattern.

# Industry Staffing Patterns

Occupation Title	Occupation Code	2019 Percent of Industry
<a href="#">Cashiers</a>	41-2011	29.7
<a href="#">Stockers and order fillers</a>	53-7065	18.7
<a href="#">Food preparation workers</a>	35-2021	6.5
<a href="#">First-line supervisors of retail sales workers</a>	41-1011	5.3
<a href="#">Fast food and counter workers</a>	35-3023	4.5
<a href="#">Retail salespersons</a>	41-2031	4.4
<a href="#">Packers and packagers, hand</a>	53-7064	4.0
<a href="#">Butchers and meat cutters</a>	51-3021	3.7
<a href="#">Customer service representatives</a>	43-4051	3.5
<a href="#">Bakers</a>	51-3011	1.8
<a href="#">First-line supervisors of office and administrative support workers</a>	43-1011	1.6
<a href="#">General and operations managers</a>	11-1021	1.4
<a href="#">Pharmacy technicians</a>	29-2052	1.3
<a href="#">Laborers and freight, stock, and material movers, hand</a>	53-7062	1.1
<a href="#">First-line supervisors of food preparation and serving workers</a>	35-1012	1.0
<a href="#">Janitors and cleaners, except maids and housekeeping cleaners</a>	37-2011	0.8
<a href="#">Pharmacists</a>	29-1051	0.8

# The Process

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- County Employment by Industry
- $\times$
- Industry Staffing Pattern Percentages for Each Occupation
- $=$
- Estimated Occupational Employment by Industry;
- Combine Estimates for Each Occupation

# County Industry Employment

Area	Year	Period	Industry Code & Title	# of Establishments	Average Employment
DEFIANCE COUNTY	2019	Annual	112 -Animal Production	6	200
DEFIANCE COUNTY	2019	Annual	236 -Construction of Buildings	18	109
DEFIANCE COUNTY	2019	Annual	237 -Heavy and Civil Engineering Construction	4	21
DEFIANCE COUNTY	2019	Annual	238 -Specialty Trade Contractors	38	220
DEFIANCE COUNTY	2019	Annual	311 -Food Manufacturing	7	145
DEFIANCE COUNTY	2019	Annual	321 -Wood Product Manufacturing	4	49
DEFIANCE COUNTY	2019	Annual	332 -Fabricated Metal Product Manufacturing	15	502
DEFIANCE COUNTY	2019	Annual	333 -Machinery Manufacturing	5	233
DEFIANCE COUNTY	2019	Annual	423 -Merchant Wholesalers, Durable Goods	27	237
DEFIANCE COUNTY	2019	Annual	424 -Merchant Wholesalers, Nondurable Goods	14	120
DEFIANCE COUNTY	2019	Annual	441 -Motor Vehicle and Parts Dealers	22	402
DEFIANCE COUNTY	2019	Annual	442 -Furniture and Home Furnishings Stores	4	34
DEFIANCE COUNTY	2019	Annual	444 -Building Material & Garden Supply Stores	12	350
DEFIANCE COUNTY	2019	Annual	445 -Food and Beverage Stores	8	197
DEFIANCE COUNTY	2019	Annual	446 -Health and Personal Care Stores	13	115
DEFIANCE COUNTY	2019	Annual	447 -Gasoline Stations	19	157
DEFIANCE COUNTY	2019	Annual	448 -Clothing and Clothing Accessories Stores	7	36

# County Occupational Employment

Hancock County Occupational Estimates, 2019

SOC Code	SOC Title	2019 Estimated Employment	Top Job	STEM	Typical Education Needed for Entry	Work Experience in a Related Occupation	Typical On-The-Job Training for Occupational Competency
11-1011	Chief Executives	40			Bachelor's degree	5 years or more	None
11-1021	General and Operations Managers	500	Top Job		Bachelor's degree	5 years or more	None
11-2011	Advertising and Promotions Managers	Less than 5			Bachelor's degree	Less than 5 years	None
11-2021	Marketing Managers	30	Top Job		Bachelor's degree	5 years or more	None
11-2022	Sales Managers	80	Top Job		Bachelor's degree	Less than 5 years	None
11-2031	Public Relations and Fundraising Managers	10			Bachelor's degree	5 years or more	None
11-3011	Administrative Services Managers	90	Top Job		Bachelor's degree	Less than 5 years	None
11-3021	Computer and Information Systems Managers	70	Top Job	STEM	Bachelor's degree	5 years or more	None
11-3031	Financial Managers	150	Top Job		Bachelor's degree	5 years or more	None
11-3051	Industrial Production Managers	120	Top Job		Bachelor's degree	5 years or more	None
11-3061	Purchasing Managers	20	Top Job		Bachelor's degree	5 years or more	None
11-3071	Transportation, Storage, and Distribution Managers	90	Top Job		High school diploma or equivalent	5 years or more	None
11-3111	Compensation and Benefits Managers	Less than 5			Bachelor's degree	5 years or more	None
11-3121	Human Resources Managers	50			Bachelor's degree	5 years or more	None
11-3131	Training and Development Managers	10			Bachelor's degree	5 years or more	None
11-9013	Farmers, Ranchers, and Other Agricultural Managers	Not Disclosed	Top Job		High school diploma or equivalent	5 years or more	None
11-9021	Construction Managers	50	Top Job		Bachelor's degree	None	Moderate-term on-the-job training
11-9031	Education Administrators, Preschool and Childcare Center/Program	10	Top Job		Bachelor's degree	Less than 5 years	None
11-9032	Education Administrators, Elementary and Secondary School	Not Disclosed			Master's degree	5 years or more	None
11-9033	Education Administrators, Postsecondary	Not Disclosed			Master's degree	Less than 5 years	None
11-9039	Education Administrators, All Other	Less than 5			Bachelor's degree	Less than 5 years	None
11-9041	Architectural and Engineering Managers	40	Top Job	STEM	Bachelor's degree	5 years or more	None
11-9051	Food Service Managers	90	Top Job		High school diploma or equivalent	Less than 5 years	None
11-9061	Funeral Service Managers	Not Disclosed			Associate's degree	Less than 5 years	None
11-9081	Lodging Managers	Not Disclosed			High school diploma or equivalent	Less than 5 years	None
11-9111	Medical and Health Services Managers	110	Top Job	STEM	Bachelor's degree	Less than 5 years	None
11-9121	Natural Sciences Managers	Less than 5	Top Job	STEM	Bachelor's degree	5 years or more	None

# Limitations

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- We used JobsOhio regional staffing patterns. Regional industry staffing patterns are the “average” for a region.
- Occupational employment for each county will differ from its regional average, but we don’t know by how much.
- We believe the estimates are close enough to ‘reality’ to provide a way to think and talk about county occupational employment.

# Confidentiality

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- Federal law prohibits business data from being published if the publication might publicly expose private business information such as employment.
- Some unpublished industry data were used to make the occupational estimates.
- Occupational employment is not disclosed when it is highly concentrated in unpublished industry.

# Uses

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- Help businesses understand the availability and competition for workers in different occupations.
- Help job seekers and career explorers by showing what kinds of jobs exist locally.
- Help understand the educational needs of local businesses.

# Questions?

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