



# Industry Spotlight

## Manufacturing

Polk County, Florida



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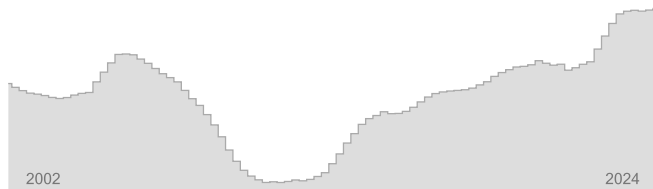
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# Spotlight Summary

Manufacturing  
Polk County, Florida – 2024Q1

## EMPLOYMENT



**19,904**

Regional employment / 13,179,795 in the nation

## WAGES



**\$68,564**

Avg Wages per Worker / \$82,405 in the nation

**2.0%** ↑

Avg Ann % Change Last 10 Years / +0.6% in the U.S.



**7.0%**

% of Total Employment / 8.0% in the U.S.

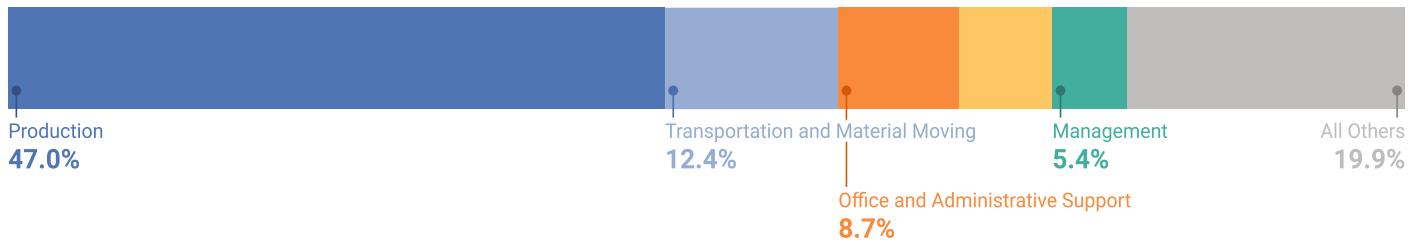


**3.6%** ↑

Avg Ann % Change Last 10 Years / +3.0% in the U.S.



## TOP OCCUPATION GROUPS



## TOP INDUSTRIES

Avg Ann % Change in Employment, Last 10 Years

**1.4%** ↑



Food Manufacturing

**0.5%** ↑



Chemical Manufacturing

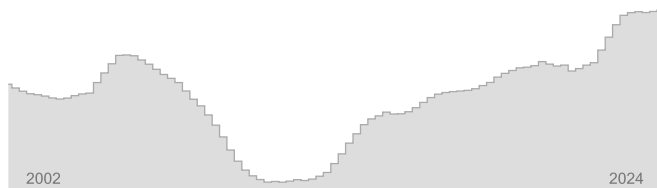
**2.3%** ↑



Wood Product Manufacturing

# Industry Snapshot

## EMPLOYMENT



## WAGES

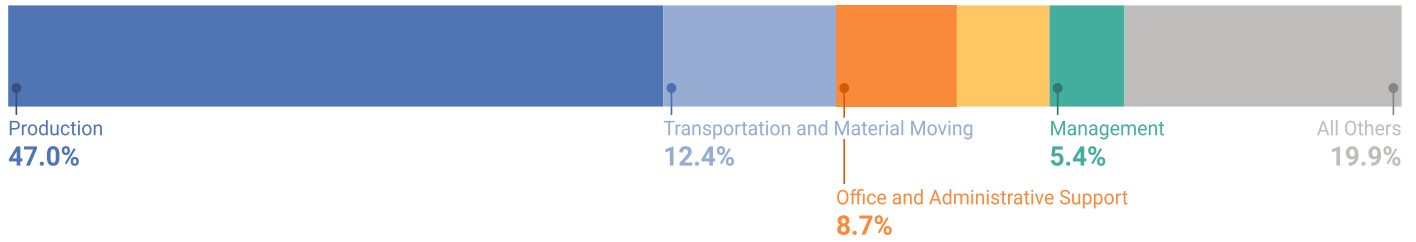


3-Digit Industry	Empl	Avg Ann Wages	LQ	5yr History	Annual Demand	Forecast Ann Growth
Food Manufacturing	5,196	\$63,468	1.69		762	2.6%
Chemical Manufacturing	2,309	\$92,530	1.48		270	2.3%
Wood Product Manufacturing	1,915	\$52,748	2.53		246	2.2%
Fabricated Metal Product Manufacturing	1,864	\$68,450	0.73		229	2.3%
Nonmetallic Mineral Product Manufacturing	1,521	\$74,645	2.09		188	2.1%
Machinery Manufacturing	1,377	\$77,123	0.70		164	2.4%
Plastics and Rubber Products Manufacturing	1,069	\$73,780	0.85		131	2.1%
Miscellaneous Manufacturing	869	\$60,086	0.75		107	2.2%
Transportation Equipment Manufacturing	652	\$41,595	0.21		72	1.4%
Paper Manufacturing	648	\$82,014	1.06		75	1.0%
Remaining Component Industries	2,485	\$59,255	0.53		297	1.7%
<b>Manufacturing</b>	<b>19,904</b>	<b>\$68,564</b>	<b>0.88</b>		<b>2,543</b>	<b>2.2%</b>


Employment is one of the broadest and most timely measures of a region's economy. Fluctuations in the number of jobs shed light on the health of an industry. A growing employment base creates more opportunities for regional residents and helps a region grow its population.

Since wages and salaries generally compose the majority of a household's income, the annual average wages of a region affect its average household income, housing market, quality of life, and other socioeconomic indicators.

# Staffing Pattern



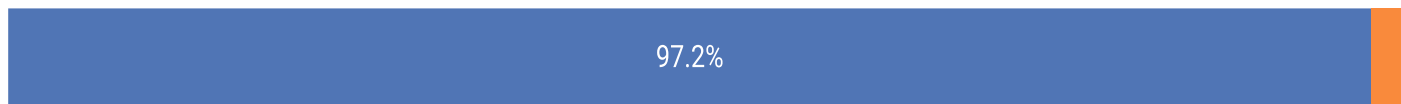
6-digit Occupation	Empl	Avg Ann Wages	Annual Demand
Team Assemblers	1,230	\$38,800	167
First-Line Supervisors of Production and Operating Workers	844	\$68,400	104
Packaging and Filling Machine Operators and Tenders	809	\$38,500	117
Laborers and Freight, Stock, and Material Movers, Hand	575	\$37,400	95
Food Batchmakers	572	\$40,300	112
Industrial Machinery Mechanics	496	\$61,300	65
Heavy and Tractor-Trailer Truck Drivers	492	\$55,600	67
Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	447	\$78,400	54
Inspectors, Testers, Sorters, Samplers, and Weighers	437	\$46,100	62
Chemical Equipment Operators and Tenders	392	\$59,800	45
Remaining Component Occupations	13,582	\$59,600	1,832
<b>Total</b>	<b>19,877</b>		

 The mix of occupations points to the ability of a region to support an industry and its flexibility to adapt to future demand. Industry wages are a component of the cost of labor for regional employers.

# Employment Distribution by Type

The table below shows the employment mix by ownership type for Manufacturing for Polk County, Florida. Four of these ownership types — federal, state, and local government and the private sector — together constitute “Covered Employment” (employment covered by the Unemployment Insurance programs of the United States and reported via the Quarterly Census of Employment and Wages).

“Self-Employment” refers to unincorporated self-employment and represents workers whose primary job is self-employment (that is, these data do not include workers whose primary job is a wage-and-salary position that is supplemented with self-employment).



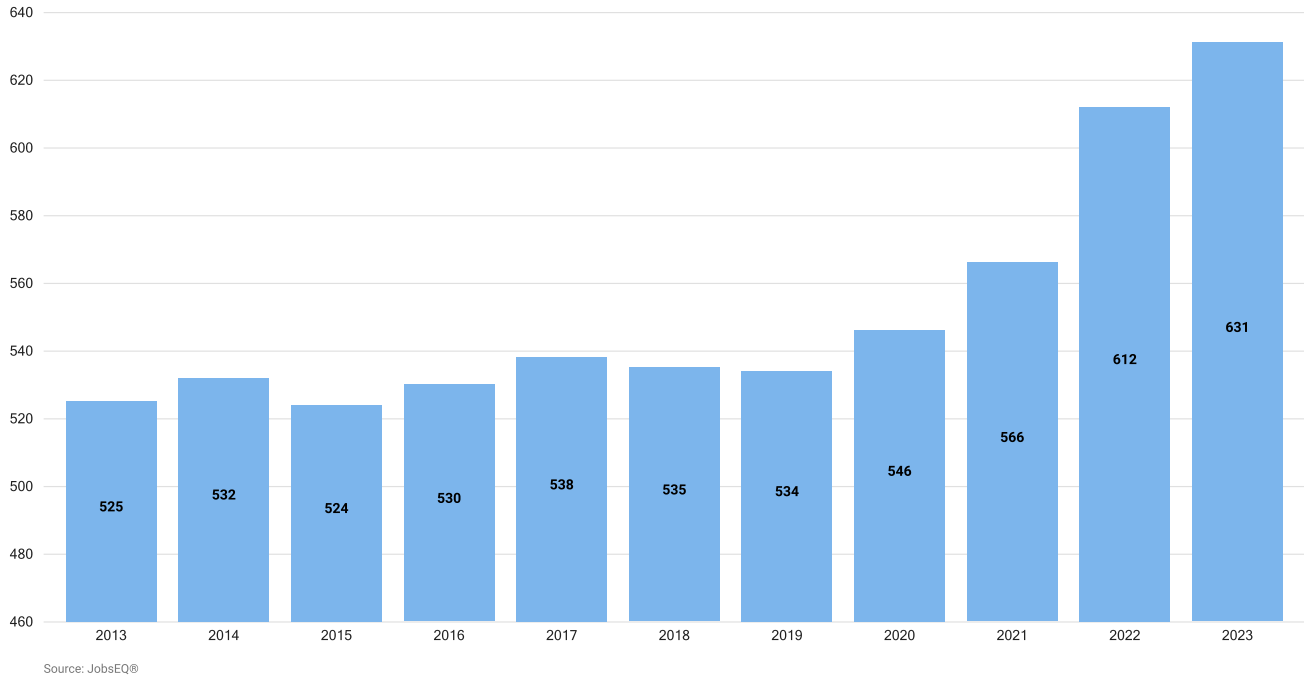
	Empl	%
Private	19,352	97.2%
Self-Employment	552	2.8%


Source: JobsEQ®

 Strong entrepreneurial activity is indicative of growing industries. Using self-employment as a proxy for entrepreneurs, a higher share of self-employed individuals within a regional industry points to future growth.

# Establishments

In 2023, there were 631 Manufacturing establishments in Polk County, Florida (per covered employment establishment counts), an increase from 525 establishments ten years earlier in 2013.

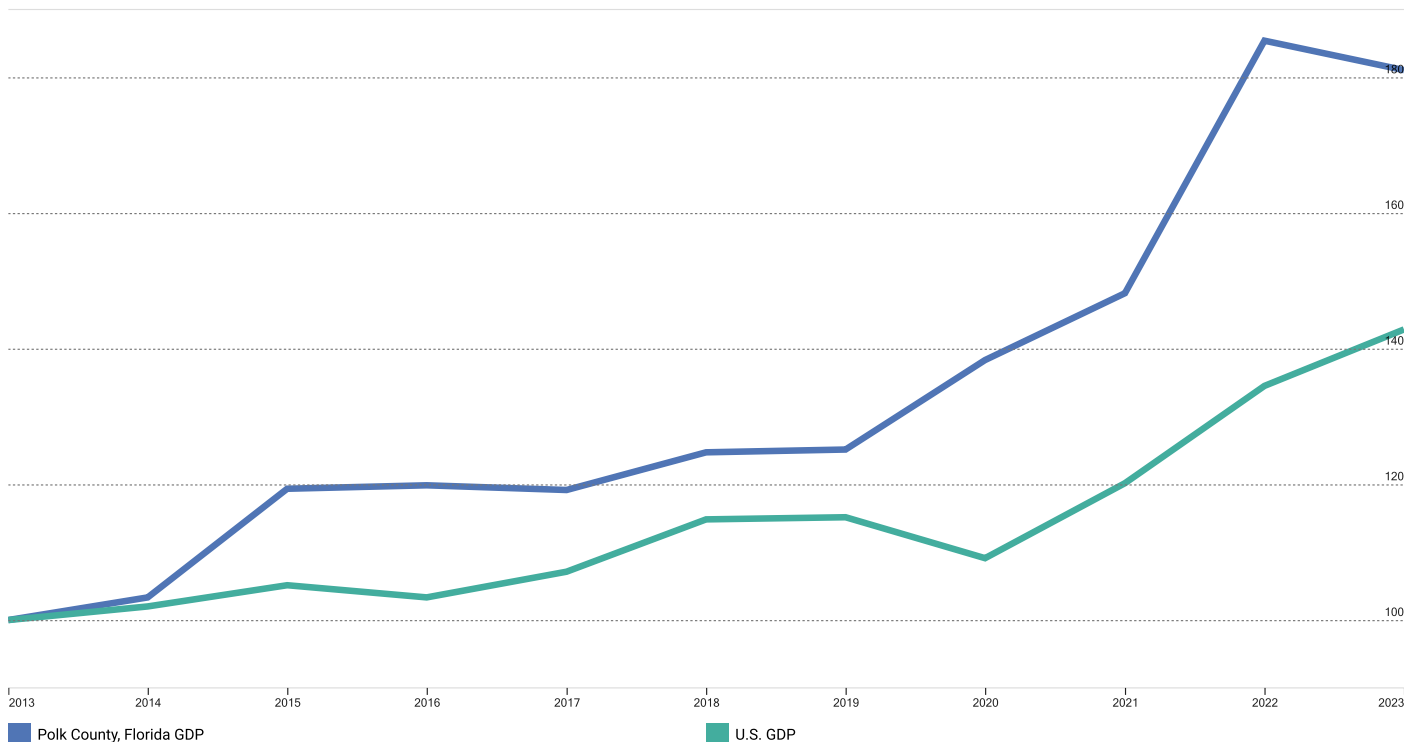


 New business formations are an important source of job creation in a regional economy, spurring innovation and competition, and driving productivity growth. Establishment data can provide an indicator of growth in businesses by counting each single location (such as a factory or a store) where business activity takes place, and with at least one employee.

# GDP & Productivity

In 2023, Manufacturing produced \$3.9 billion in GDP for Polk County, Florida.

GDP: Indexed 2013 = 100



## 12.2 %

Industry Share of Total GDP /  
**10.3 %** in the nation



## 6.1 % ↑

Avg Ann % Change Last 10 Yrs /  
**3.6 %** in the nation



## \$722k

Output per Worker /  
**\$669k** in the nation



💡 Gross domestic product (GDP) is the most comprehensive measure of regional economic activity, and an industry's contribution to GDP is an important indicator of regional industry strength. It is a measure of total value-added to a regional economy in the form of labor income, proprietor's income, and business profits, among others. GDP values shown on this page are nominal GDP data.


💡 Growth in productivity (output per worker) leads to increases in wealth and higher average standards of living in a region.



# Supply Chain: Top Suppliers


As of 2024Q1, Manufacturing in Polk County, Florida are estimated to make \$8.5 billion in annual purchases from suppliers in the United States with about 26% or \$2.2 billion of these purchases being made from businesses located in Polk County, Florida.

<b>3-digit Supplier Industries</b>	<b>Purchases from In-Region (\$M)</b>	<b>Purchases from Out-of-Region (\$M)</b>
Chemical Manufacturing	\$322.1	\$642.1
Food Manufacturing	\$177.5	\$562.7
Petroleum and Coal Products Manufacturing	\$40.6	\$659.4
Professional, Scientific, and Technical Services	\$102.2	\$442.5
Utilities	\$72.8	\$289.8
Remaining Supplier Industries	\$1,501.4	\$3,637.1
<b>Total</b>	<b>\$2,216.6</b>	<b>\$6,233.5</b>

 Supplier-buyer networks can indicate local linkages between industries, regional capacity to support growth in an industry, and potential leakage of sales out of the region.

# Sector Strategy Pathways





 The graphics on this page illustrate relationships and potential movement (from left to right) between occupations that share similar skill sets. Developing career pathways as a strategy promotes industry employment growth and workforce engagement.

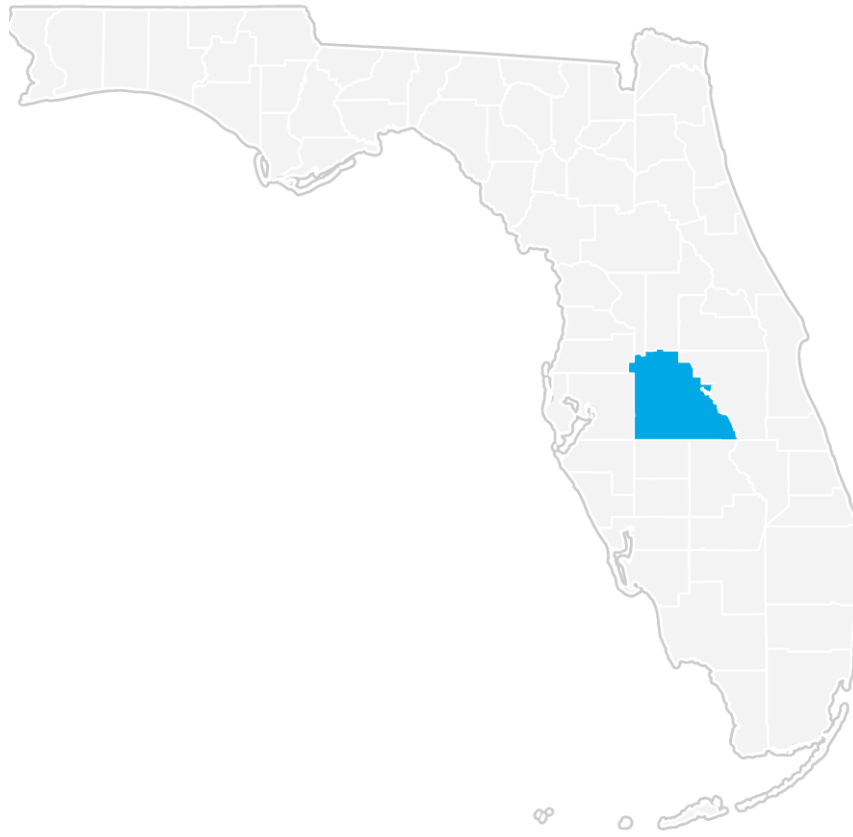
# Postsecondary Programs Linked to Manufacturing

Program	Awards
<b>Polk State College</b>	
Aeronautics/Aviation/Aerospace Science and Technology, General	26
Business Administration and Management, General	49
Computer Programming/Programmer, General	9
Engineering Technologies/Technicians, General	31
Transportation/Mobility Management	9
Web Page, Digital/Multimedia and Information Resources Design	9
<b>Ridge Technical College</b>	
Welding Technology/Welder	27
<b>Traviss Technical College</b>	
Heating, Ventilation, Air Conditioning and Refrigeration Engineering Technology/Technician	27
Prepress/Desktop Publishing and Digital Imaging Design	10
Welding Technology/Welder	13

Source: [JobsEQ®](#)

-  The number of graduates from postsecondary programs in the region identifies the pipeline of future workers as well as the training capacity to support industry demand.
-  Among postsecondary programs at schools located in Polk County, Florida, the sampling above identifies those most linked to occupations relevant to Manufacturing. For a complete list see JobsEQ®, <http://www.chmuraecon.com/jobseq>

# Polk County, Florida Regional Map



# Data Notes

- Industry employment and wages (including total regional employment and wages) are as of 2024Q1 and are based upon BLS QCEW data, imputed by Chmura where necessary, and supplemented by additional sources including Census ZBP data. Employment forecasts are modeled by Chmura and are consistent with BLS national-level 10-year forecasts.
- Occupation employment is as of 2024Q1 and is based on industry employment and local staffing patterns calculated by Chmura and utilizing BLS OEWS data. Wages by occupation are as of 2024, utilizing BLS OEWS data and imputed by Chmura.
- GDP is derived from BEA data and imputations by Chmura. Productivity (output per worker) is calculated by Chmura using industry employment and wages as well as GDP and BLS output data. Supply chain modeling including purchases by industry are developed by Chmura.
- Postsecondary awards are per the NCES and are for the 2022-2023 academic year.
- Establishment counts are per the BLS QCEW data.
- Figures may not sum due to rounding.

# Industry Definition

**Manufacturing is defined as the following NAICS industries:**

<b>Code</b>	<b>Description</b>
311	Food Manufacturing
312	Beverage and Tobacco Product Manufacturing
313	Textile Mills
314	Textile Product Mills
315	Apparel Manufacturing
316	Leather and Allied Product Manufacturing
321	Wood Product Manufacturing
322	Paper Manufacturing
323	Printing and Related Support Activities
324	Petroleum and Coal Products Manufacturing
325	Chemical Manufacturing
326	Plastics and Rubber Products Manufacturing
327	Nonmetallic Mineral Product Manufacturing
331	Primary Metal Manufacturing
332	Fabricated Metal Product Manufacturing
333	Machinery Manufacturing
334	Computer and Electronic Product Manufacturing
335	Electrical Equipment, Appliance, and Component Manufacturing
336	Transportation Equipment Manufacturing
337	Furniture and Related Product Manufacturing
339	Miscellaneous Manufacturing

# FAQ

## **What is (LQ) location quotient?**

Location quotient is a measurement of concentration in comparison to the nation. An LQ of 1.00 indicates a region has the same concentration of an industry (or occupation) as the nation. An LQ of 2.00 would mean the region has twice the expected employment compared to the nation and an LQ of 0.50 would mean the region has half the expected employment in comparison to the nation.

## **What is annual demand?**

Annual demand is a of the sum of the annual projected growth demand and separation demand. Separation demand is the number of jobs required due to separations—labor force exits (including retirements) and turnover resulting from workers moving from one occupation into another. Note that separation demand does not include all turnover—it does not include when workers stay in the same occupation but switch employers. Growth demand is the increase or decrease of jobs expected due to expansion or contraction of the overall number of jobs.

## **What is the difference between industry wages and occupation wages?**

Industry wages and occupation wages are estimated via separate data sets, often the time periods being reported do not align, and wages are defined slightly differently in the two systems (for example, certain bonuses are included in the industry wages but not the occupation wages). It is therefore common that estimates of the average industry wages and average occupation wages in a region do not match exactly.