



# Industry Spotlight

## York County - Chemicals

York County Labor Shed (ZCTA)



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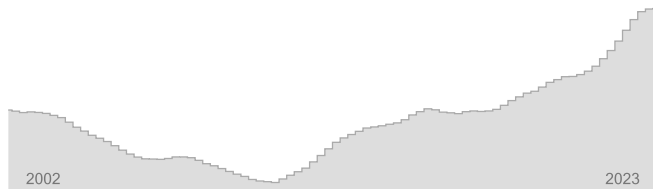
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# Spotlight Summary

York County - Chemicals  
York County Labor Shed (ZCTA) – 2023Q2

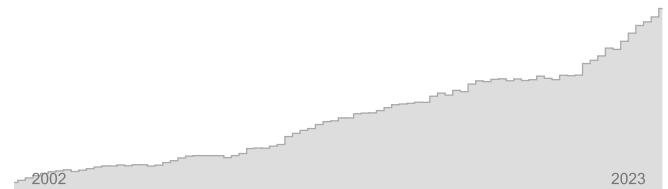
## EMPLOYMENT



**13,509**

Regional employment / 1,199,927 in the nation

## WAGES



**\$98,468**

Avg Wages per Worker / \$110,788 in the nation

**4.7%** ↑

Avg Ann % Change Last 10 Years / +1.2% in the U.S.



**1.1%**

% of Total Employment / 0.7% in the U.S.

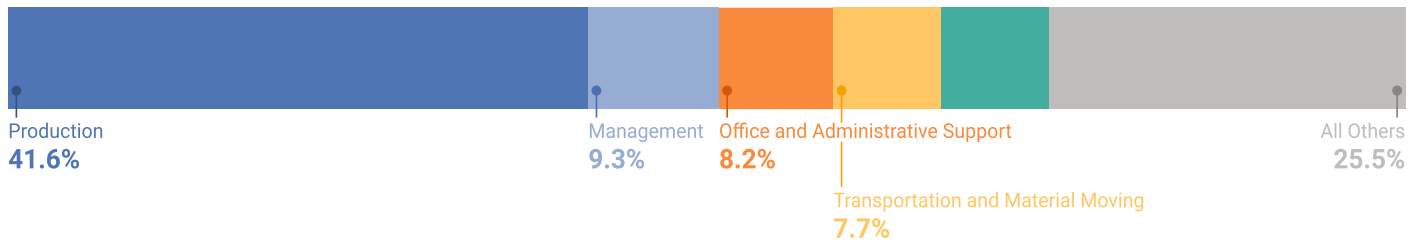


**3.6%** ↑

Avg Ann % Change Last 10 Years / +2.6% in the U.S.



## TOP OCCUPATION GROUPS



## TOP INDUSTRIES

Avg Ann % Change in Employment, Last 10 Years

**8.0%** ↑



Pharmaceutical and Medicine Manufacturing

**17.8%** ↑



Artificial and Synthetic Fibers and Filaments Manufacturing

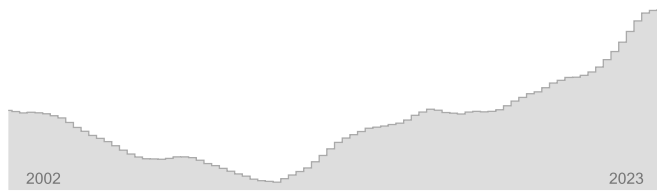
**3.9%** ↑



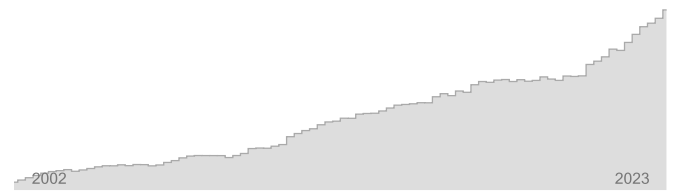
Resin and Synthetic Rubber Manufacturing

# Industry Snapshot

## EMPLOYMENT



## WAGES

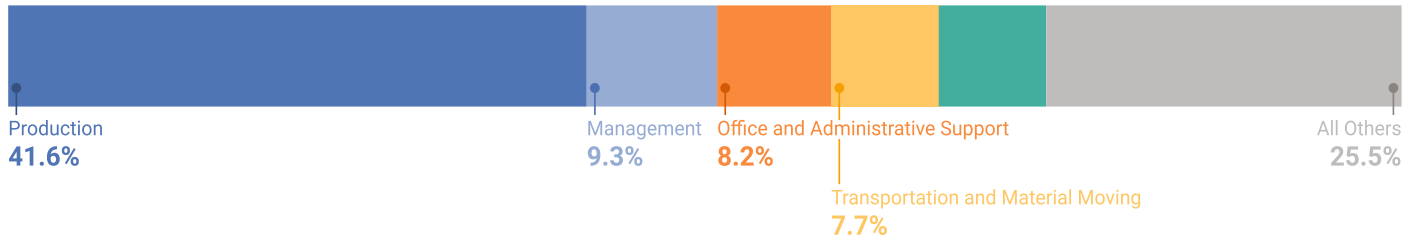


5-Digit Industry	Empl	Avg Ann Wages	LQ	5yr History	Annual Demand	Forecast Ann Growth
Pharmaceutical and Medicine Manufacturing	2,526	\$142,126	0.95		300	1.8%
Artificial and Synthetic Fibers and Filaments Manufacturing	1,400	\$100,109	7.07		156	0.9%
Resin and Synthetic Rubber Manufacturing	910	\$85,418	1.66		103	1.1%
Other Basic Inorganic Chemical Manufacturing	621	\$93,988	1.97		68	0.8%
Printing Ink Manufacturing	594	\$71,305	10.02		68	1.2%
All Other Chemical Product and Preparation Manufacturing	549	\$69,424	1.04		63	1.2%
Soap and Cleaning Compound Manufacturing	535	\$75,157	1.16		66	1.6%
Paint and Coating Manufacturing	476	\$69,266	1.40		60	1.7%
Other Basic Organic Chemical Manufacturing	454	\$98,833	1.03		52	1.3%
Toilet Preparation Manufacturing	323	\$63,324	0.69		39	1.3%
Remaining Component Industries	734	\$92,163	0.97		86	1.4%
<b>York County - Chemicals</b>	<b>13,509</b>	<b>\$98,468</b>	<b>1.46</b>		<b>1,562</b>	<b>1.3%</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



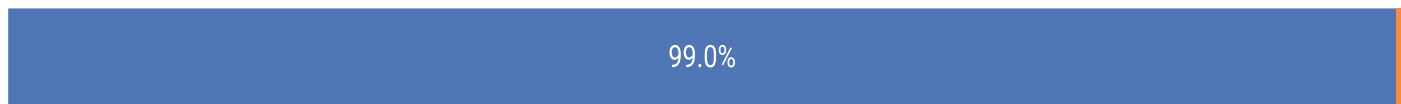
6-digit Occupation	Empl	Avg Ann Wages	Annual Demand
Chemical Equipment Operators and Tenders	1,259	\$54,600	139
Packaging and Filling Machine Operators and Tenders	535	\$41,300	74
First-Line Supervisors of Production and Operating Workers	433	\$72,100	53
Mixing and Blending Machine Setters, Operators, and Tenders	365	\$45,900	48
Inspectors, Testers, Sorters, Samplers, and Weighers	321	\$51,200	47
Laborers and Freight, Stock, and Material Movers, Hand	288	\$36,400	47
Industrial Machinery Mechanics	286	\$62,600	38
Chemists	265	\$78,100	29
Industrial Production Managers	215	\$122,700	19
Maintenance and Repair Workers, General	206	\$50,100	24
Remaining Component Occupations	4,927	\$75,600	587
<b>Total</b>	<b>9,099</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 York County - Chemicals for the York County Labor Shed (ZCTA). 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).



	<b>Empl</b>	<b>%</b>
 Private	13,376	99.0%
 Self-Employment	132	1.0%
 Other Non-Covered	0	0.0%



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.

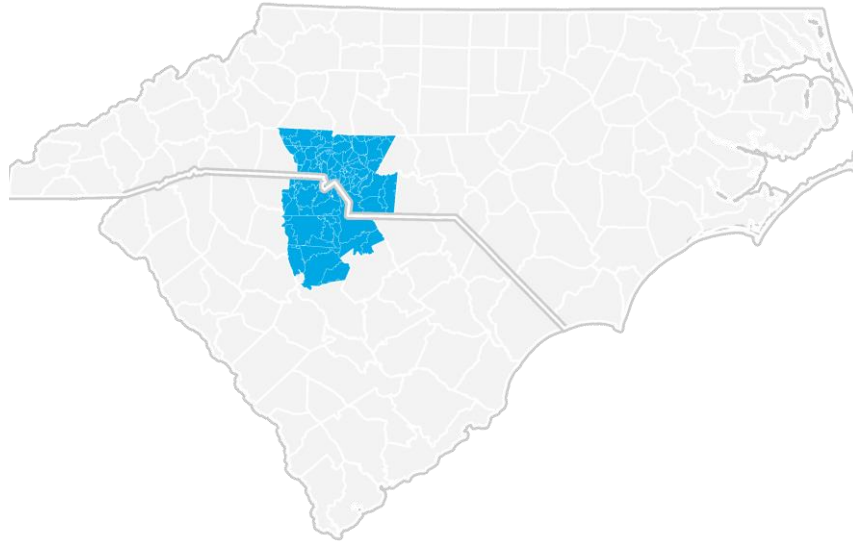
# Postsecondary Programs Linked to York County - Chemicals

Program	Awards
<b>Central Piedmont Community College</b>	
Welding Technology/Welder	137
<b>Davidson College</b>	
Biology/Biological Sciences, General	60
Chemistry, General	11
<b>Gaston College</b>	
Biotechnology	1,152
Industrial Production Technologies/Technicians, Other	14
<b>Johnson C Smith University</b>	
Biology/Biological Sciences, General	27
<b>Wingate University</b>	
Biology/Biological Sciences, General	64
Chemistry, General	6
<b>Winthrop University</b>	
Biology/Biological Sciences, General	71
Chemistry, General	12

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 the York County Labor Shed (ZCTA), the sampling above identifies those most linked to occupations relevant to York County - Chemicals. For a complete list see JobsEQ®, <http://www.chmuraecon.com/jobseq>

# York County Labor Shed (ZCTA) Regional Map





# Data Notes

- Industry employment and wages (including total regional employment and wages) are as of 2023Q2 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 2023Q2 and is based on industry employment and local staffing patterns calculated by Chmura and utilizing BLS OEWS data. Wages by occupation are as of 2023, 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 2021-2022 academic year.
- Establishment counts are per the BLS QCEW data.
- Figures may not sum due to rounding.

# Industry Definition

York County - Chemicals is defined as the following NAICS industries:

Code	Description
32511	Petrochemical Manufacturing
32512	Industrial Gas Manufacturing
32513	Synthetic Dye and Pigment Manufacturing
32518	Other Basic Inorganic Chemical Manufacturing
32519	Other Basic Organic Chemical Manufacturing
32521	Resin and Synthetic Rubber Manufacturing
32522	Artificial and Synthetic Fibers and Filaments Manufacturing
32531	Fertilizer and Compost Manufacturing
32532	Pesticide and Other Agricultural Chemical Manufacturing
32541	Pharmaceutical and Medicine Manufacturing
32551	Paint and Coating Manufacturing
32552	Adhesive Manufacturing
32561	Soap and Cleaning Compound Manufacturing
32562	Toilet Preparation Manufacturing
32591	Printing Ink Manufacturing
32592	Explosives Manufacturing
32599	All Other Chemical Product and Preparation Manufacturing

# Region Definition

**York County Labor Shed (ZCTA) is defined as the following zip code tabulation areas:**

ZCTA 28006 (Gaston County, North Carolina portion)	ZCTA 28209
ZCTA 28006 (Lincoln County, North Carolina portion)	ZCTA 28210
ZCTA 28012	ZCTA 28211
ZCTA 28016	ZCTA 28212
ZCTA 28017	ZCTA 28213 (Cabarrus County, North Carolina portion)
ZCTA 28021 (Gaston County, North Carolina portion)	ZCTA 28213 (Mecklenburg County, North Carolina portion)
ZCTA 28021 (Lincoln County, North Carolina portion)	ZCTA 28214
ZCTA 28025	ZCTA 28215 (Cabarrus County, North Carolina portion)
ZCTA 28027 (Cabarrus County, North Carolina portion)	ZCTA 28215 (Mecklenburg County, North Carolina portion)
ZCTA 28031	ZCTA 28216
ZCTA 28032	ZCTA 28217
ZCTA 28033 (Gaston County, North Carolina portion)	ZCTA 28226
ZCTA 28033 (Lincoln County, North Carolina portion)	ZCTA 28227 (Mecklenburg County, North Carolina portion)
ZCTA 28034	ZCTA 28227 (Union County, North Carolina portion)
ZCTA 28036 (Cabarrus County, North Carolina portion)	ZCTA 28244
ZCTA 28036 (Mecklenburg County, North Carolina portion)	ZCTA 28262 (Cabarrus County, North Carolina portion)
ZCTA 28037 (Lincoln County, North Carolina portion)	ZCTA 28262 (Mecklenburg County, North Carolina portion)
ZCTA 28052	ZCTA 28269 (Cabarrus County, North Carolina portion)
ZCTA 28054	ZCTA 28269 (Mecklenburg County, North Carolina portion)
ZCTA 28056	ZCTA 28270
ZCTA 28071 (Cabarrus County, North Carolina portion)	ZCTA 28273
ZCTA 28075	ZCTA 28277
ZCTA 28077	ZCTA 28278
ZCTA 28078 (Cabarrus County, North Carolina portion)	ZCTA 28280
ZCTA 28078 (Mecklenburg County, North Carolina portion)	ZCTA 28282
ZCTA 28079	ZCTA 28650 (Lincoln County, North Carolina portion)
ZCTA 28080 (Lincoln County, North Carolina portion)	ZCTA 28673 (Lincoln County, North Carolina portion)
ZCTA 28081 (Cabarrus County, North Carolina portion)	ZCTA 29014 (Chester County, South Carolina portion)
ZCTA 28083 (Cabarrus County, North Carolina portion)	ZCTA 29014 (Fairfield County, South Carolina portion)
ZCTA 28086 (Gaston County, North Carolina portion)	ZCTA 29015
ZCTA 28090 (Lincoln County, North Carolina portion)	ZCTA 29016 (Fairfield County, South Carolina portion)
ZCTA 28092 (Gaston County, North Carolina portion)	ZCTA 29031 (Chester County, South Carolina portion)
ZCTA 28092 (Lincoln County, North Carolina portion)	ZCTA 29031 (Fairfield County, South Carolina portion)
ZCTA 28097 (Cabarrus County, North Carolina portion)	ZCTA 29055 (Chester County, South Carolina portion)
ZCTA 28098	ZCTA 29055 (Fairfield County, South Carolina portion)

**York County Labor Shed (ZCTA) is defined as the following zip code tabulation areas:**

ZCTA 28101

ZCTA 28103 (Union County, North Carolina portion)

ZCTA 28104 (Mecklenburg County, North Carolina portion)

ZCTA 28104 (Union County, North Carolina portion)

ZCTA 28105 (Mecklenburg County, North Carolina portion)

ZCTA 28105 (Union County, North Carolina portion)

ZCTA 28107 (Cabarrus County, North Carolina portion)

ZCTA 28107 (Mecklenburg County, North Carolina portion)

ZCTA 28107 (Union County, North Carolina portion)

ZCTA 28108

ZCTA 28110

ZCTA 28112

ZCTA 28120

ZCTA 28124 (Cabarrus County, North Carolina portion)

ZCTA 28133 (Union County, North Carolina portion)

ZCTA 28134

ZCTA 28138 (Cabarrus County, North Carolina portion)

ZCTA 28164 (Gaston County, North Carolina portion)

ZCTA 28164 (Lincoln County, North Carolina portion)

ZCTA 28168 (Lincoln County, North Carolina portion)

ZCTA 28173

ZCTA 28174

ZCTA 28202

ZCTA 28203

ZCTA 28204

ZCTA 28205

ZCTA 28206

ZCTA 28207

ZCTA 28208

ZCTA 29058 (Lancaster County, South Carolina portion)

ZCTA 29067 (Lancaster County, South Carolina portion)

ZCTA 29130 (Fairfield County, South Carolina portion)

ZCTA 29180 (Fairfield County, South Carolina portion)

ZCTA 29702 (York County, South Carolina portion)

ZCTA 29704 (Chester County, South Carolina portion)

ZCTA 29704 (York County, South Carolina portion)

ZCTA 29706 (Chester County, South Carolina portion)

ZCTA 29706 (York County, South Carolina portion)

ZCTA 29707

ZCTA 29708

ZCTA 29710

ZCTA 29712 (Chester County, South Carolina portion)

ZCTA 29712 (York County, South Carolina portion)

ZCTA 29714

ZCTA 29715

ZCTA 29717

ZCTA 29720

ZCTA 29724

ZCTA 29726

ZCTA 29729

ZCTA 29730 (Chester County, South Carolina portion)

ZCTA 29730 (York County, South Carolina portion)

ZCTA 29732

ZCTA 29733

ZCTA 29742 (Chester County, South Carolina portion)

ZCTA 29742 (York County, South Carolina portion)

ZCTA 29743 (York County, South Carolina portion)

ZCTA 29745

# 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.