



Building & Construction

Pennsylvania defines industry clusters to serve as the basis for data-driven workforce development policies. An industry cluster includes industries closely linked by common products, labor pools, technologies, supplier chains and training needs. They take on strategic importance for long-term economic planning as changes that benefit one group member will generally impact other members of the cluster.

Industry clusters are comprised of specific six-digit North American Industry Classification System, or NAICS, codes. They are mutually exclusive, so that no two clusters contain the same NAICS code. Currently, there are 12 clusters identified, along with several critical sub-clusters. Combined, these 12 industry clusters account for nearly 83 percent of all employment in the commonwealth.

Cluster Summary

The Building and Construction (BC) cluster includes industries directly involved in the construction of housing, roadways or other physical structures. Industries such as HVAC equipment manufacturing, whose products are used exclusively in the construction of these structures, are also included. The retail industries such as Home Centers which act as a middle man between manufacturer and independent contractors are included as well. Lastly, technical firms offering drafting or architectural services are also in the cluster.

	2015	2019	2020
Employer Units	34,966	36,165	36,313
Number of Jobs	349,685	375,354	355,274
Percent of Total Pennsylvania Jobs	6.1%	6.3%	6.5%
Average Annual Wages	\$55,130	\$61,707	\$63,526
Location Quotient (LQ)	0.95	0.93	0.91

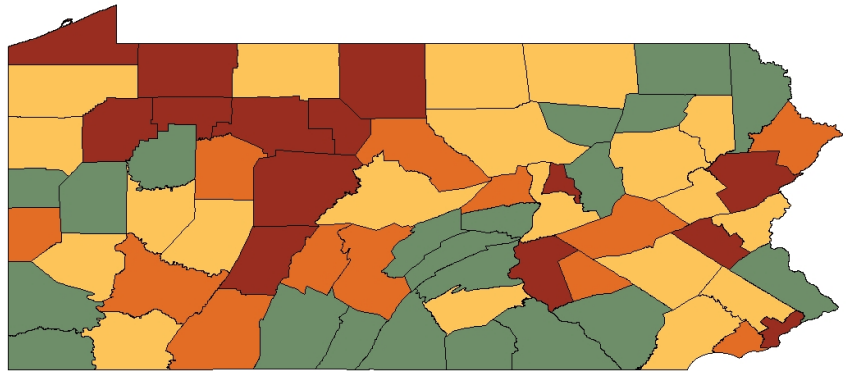
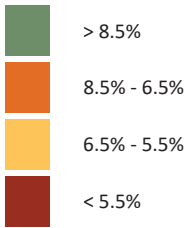
LQs greater than one suggest a competitive advantage.

Employment in this cluster has increased 1.6% in the last five years in Pennsylvania. However, only 10 Workforce Development Areas (WDAs) have competitive Location Quotients (LQ) (as seen on page 3). Average annual wages in this cluster have jumped considerably (15.0%) over this same five-year period.



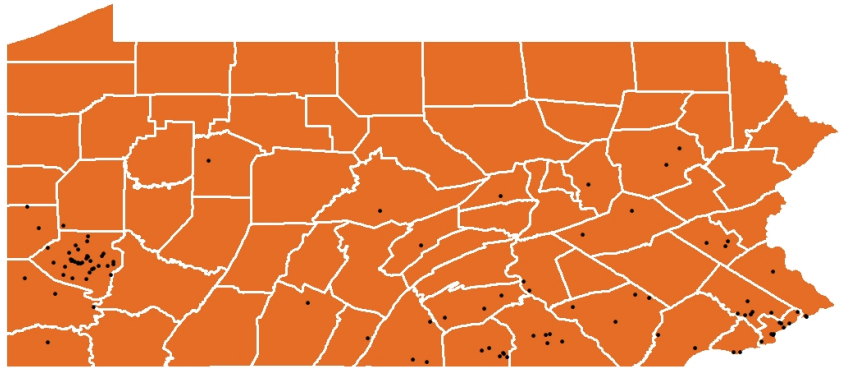
Note: The 2020 employment and wages data, as presented in this publication, reflect the effects of business and school closures implemented to mitigate the spread of Coronavirus (COVID-19).

Percent Employment by County



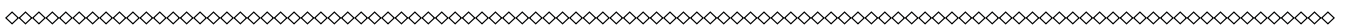
Major Employers

- Lowe’s Home Centers Inc
- Home Depot USA Inc
- PA Dept of Transportation
- JLG Industries Inc
- New Enterprise Stone & Lime Company
- Kinsley Construction Inc



Top Industries Based on Employment

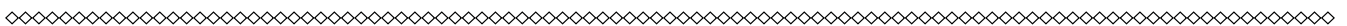
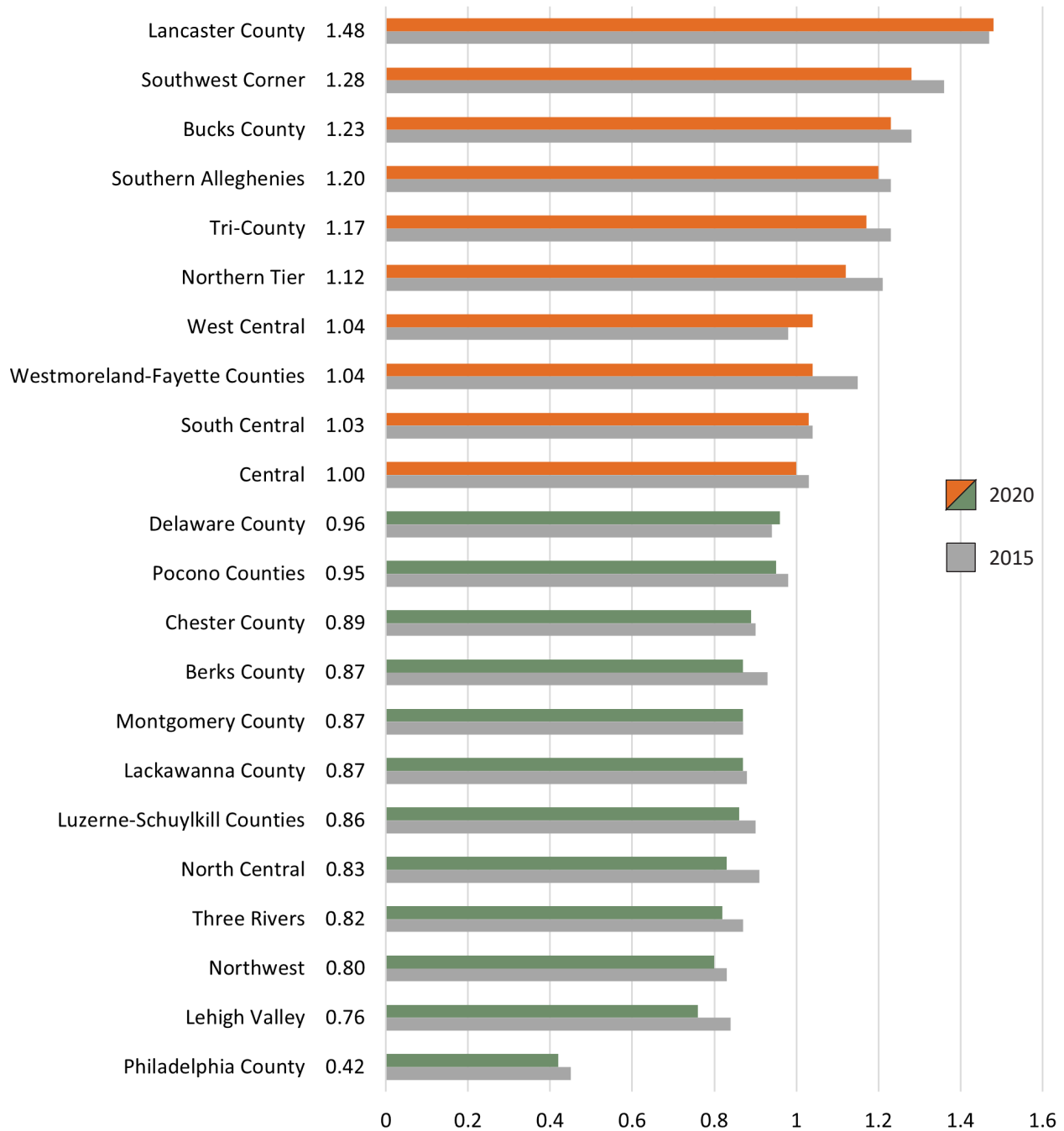
- Home Centers
- Commercial Building Construction
- Nonresidential Plumbing & HVAC Contractors
- Highway, Street & Bridge Construction
- Nonresidential Electrical Contractors
- Residential Plumbing & HVAC Contractors
- Residential Remodelers
- Nonresidential Site Preparation Contractors
- New Single-Family Housing Construction
- Residential Electrical Contractors
- Water & Sewer System Construction
- Architectural Services
- Residential Site Preparation Contractors
- All Other Residential Trade Contractors
- All Other Nonresidential Trade Contractors
- Hardware Stores
- Metal Window & Door Manufacturing
- Construction Machinery Manufacturing
- Nonresidential Drywall Contractors
- Plumbing Equipment Wholesalers



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Employment Concentration

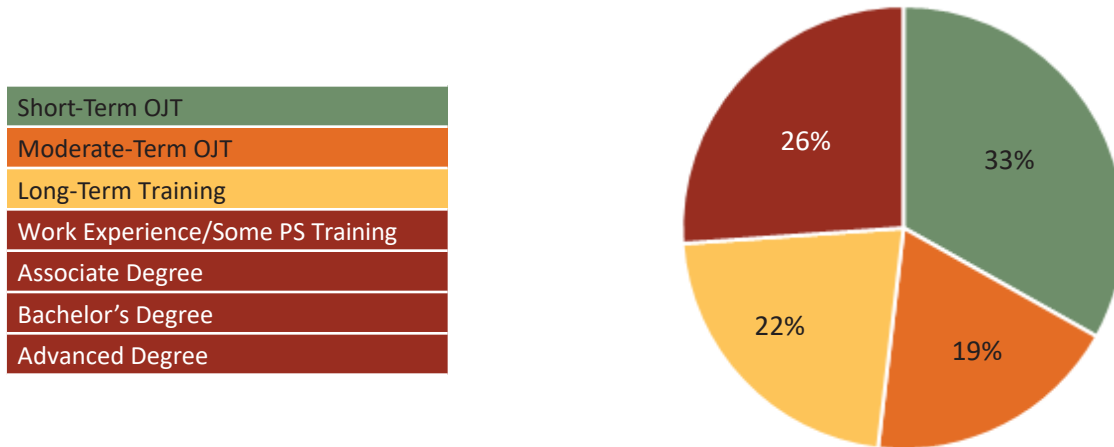
A location quotient, or LQ, compares a cluster's share of local employment to its share of national employment. This value can be used when evaluating the strength of an industry cluster within an area. An LQ greater than one indicates that the cluster has, on average, more employees locally than typically expected implying a possible competitive advantage. The majority of the Workforce Development Areas (WDAs) have decreased their competitiveness since 2015. Lancaster County, West Central, Delaware County and Montgomery County WDAs are the exceptions.



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Educational Requirements

This graph illustrates the minimum educational attainment levels for jobs found in this cluster's various industries. Approximately 74 percent of BC jobs require no formal postsecondary training. Many occupations in the cluster may still have apprenticeship programs associated with them, which would be included in the Long-Term Training category.

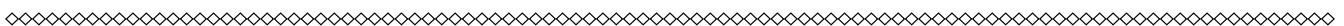


Occupations with Significant Employment

The following table lists occupations that employ at least 5,100 people in the BC cluster.

SOC Code	Occupation	Average Wage	Annual Demand	
			All Industries	Industry Cluster
47-2061	Construction Laborers	\$45,000	6,876	4,172
47-2031	Carpenters	\$55,370	4,466	2,980
41-2031	Retail Salespersons	\$29,580	24,101	2,465
47-2111	Electricians	\$68,950	2,948	2,116
43-9061	Office Clerks, General	\$38,360	19,111	1,734
47-1011	Supervisors - Construction & Extraction Workers	\$75,690	2,624	1,546
47-2152	Plumbers, Pipefitters & Steamfitters	\$61,660	2,084	1,443
47-2073	Operating Engineers	\$56,240	2,796	1,330
49-9021	Heating, A/C & Refrigeration Mechanics & Installers	\$54,740	1,880	1,282
53-3032	Heavy & Tractor-Trailer Truck Drivers	\$49,850	10,865	1,098
53-7062	Laborers & Freight/Stock/Material Movers	\$33,910	23,346	1,095
11-1021	General & Operations Managers	\$131,060	7,980	744
41-3099	Sales Representatives, Services, All Other	\$73,830	5,035	712
43-6014	Secretaries & Administrative Assistants	\$38,940	9,746	710
11-9021	Construction Managers	\$117,130	1,239	588

*The 2020 average annual wage reflects wages across all industries and is not specific to the cluster.



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