



Transportation and Logistics (NKY) Northern Kentucky, KY WDA



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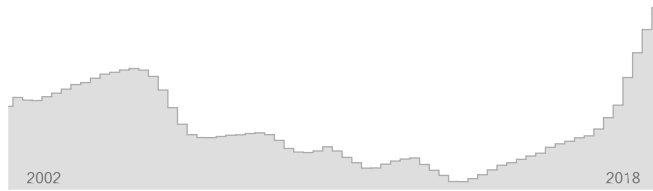
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Transportation and Logistics (NKY)
Northern Kentucky, KY WDA – 2018Q4

EMPLOYMENT



23,516

Regional employment / 6,966,453 in the nation

WAGES

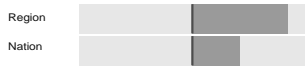


\$53,216

Avg Wages per Worker / \$52,845 in the nation

3.1% ↑

Avg Ann % Change Last 10 Years / +1.5% in the U.S.



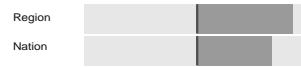
10.6%

% of Total Employment / 4.4% in the U.S.



1.9% ↑

Avg Ann % Change Last 10 Years / +1.5% in the U.S.



TOP OCCUPATION GROUPS



TOP INDUSTRIES

Avg Ann % Change in Employment, Last 10 Years

15.5% ↑



Couriers and Express Delivery Services

5.6% ↑



General Warehousing and Storage

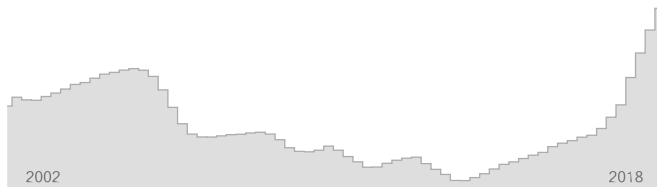
22.5% ↑



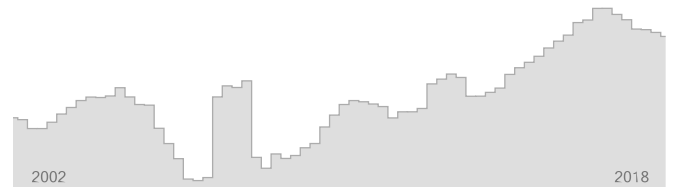
Other Support Activities for Air Transportation

Industry Snapshot


EMPLOYMENT



WAGES



6-Digit Industry	Empl	Avg Ann Wages	LQ	5yr History	Annual Demand	Forecast Ann Growth
Couriers and Express Delivery Services	6,250	\$43,004	6.61		790	1.0%
General Warehousing and Storage	5,668	\$39,702	3.94		818	2.4%
Other Support Activities for Air Transportation	1,976	\$92,442	11.61		232	1.6%
Scheduled Passenger Air Transportation	1,696	\$102,173	2.69		191	1.1%
Freight Transportation Arrangement	1,177	\$57,993	3.32		133	1.4%
General Freight Trucking, Long-Distance, Truckload	821	\$57,360	0.97		90	0.4%
Postal Service	805	\$48,767	0.93		49	-1.3%
General Freight Trucking, Local	611	\$50,428	1.37		69	0.7%
Other Airport Operations	604	\$54,921	3.18		73	2.0%
Rail Transportation (non-covered)	558	\$73,549	1.86		48	-0.5%
Remaining Component Industries	3,347	\$44,252	1.22		392	0.8%
Transportation and Logistics (NKY)	23,516	\$53,216	2.40			1.3%

 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.

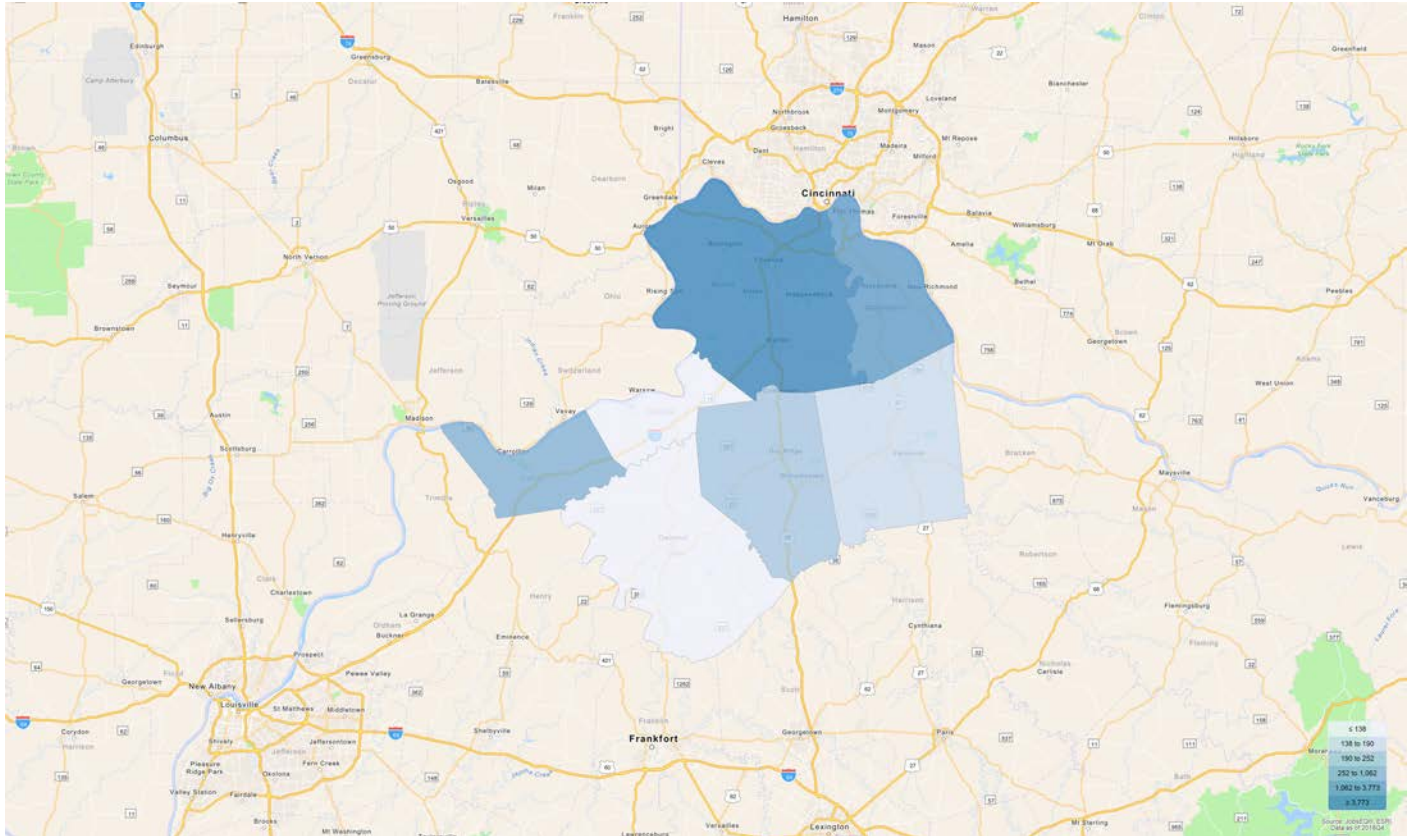
Staffing Pattern



6-digit Occupation	Empl	Avg Ann Wages	Annual Demand
Laborers and Freight, Stock, and Material Movers, Hand	4,858	\$29,800	776
Heavy and Tractor-Trailer Truck Drivers	2,304	\$43,100	272
Light Truck or Delivery Services Drivers	1,974	\$34,100	250
Industrial Truck and Tractor Operators	962	\$33,000	129
Cargo and Freight Agents	771	\$44,900	76
Aircraft Mechanics and Service Technicians	598	\$80,300	56
Stock Clerks and Order Fillers	532	\$26,800	80
Packers and Packagers, Hand	516	\$24,600	99
Flight Attendants	480	\$45,800	62
Reservation and Transportation Ticket Agents and Travel Clerks	469	\$37,900	56
Remaining Component Occupations	10,016	\$52,000	1,160
Total	23,516		

 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.

Geographic Distribution



Region	Empl	Region	Empl
Boone County, Kentucky	17,992	Grant County, Kentucky	191
Kenton County, Kentucky	3,774	Pendleton County, Kentucky	138
Campbell County, Kentucky	1,062	Owen County, Kentucky	59
Carroll County, Kentucky	253	Gallatin County, Kentucky	48

Source: JobsEQ®

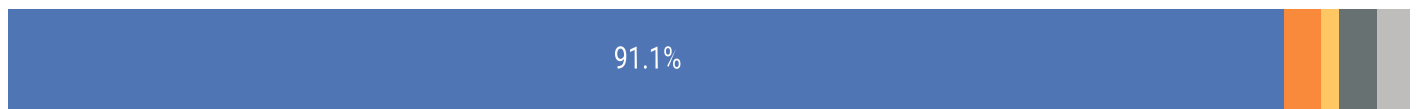


A geographic concentration of firms in related fields of business may reduce production costs, attract more suppliers and customers, and increase supply and demand for specialized labor, but may also increase competitive pressure and drive down prices.

Employment Distribution by Type

The table below shows the employment mix by ownership type for Transportation and Logistics (NKY) for the Northern Kentucky, KY WDA. 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).



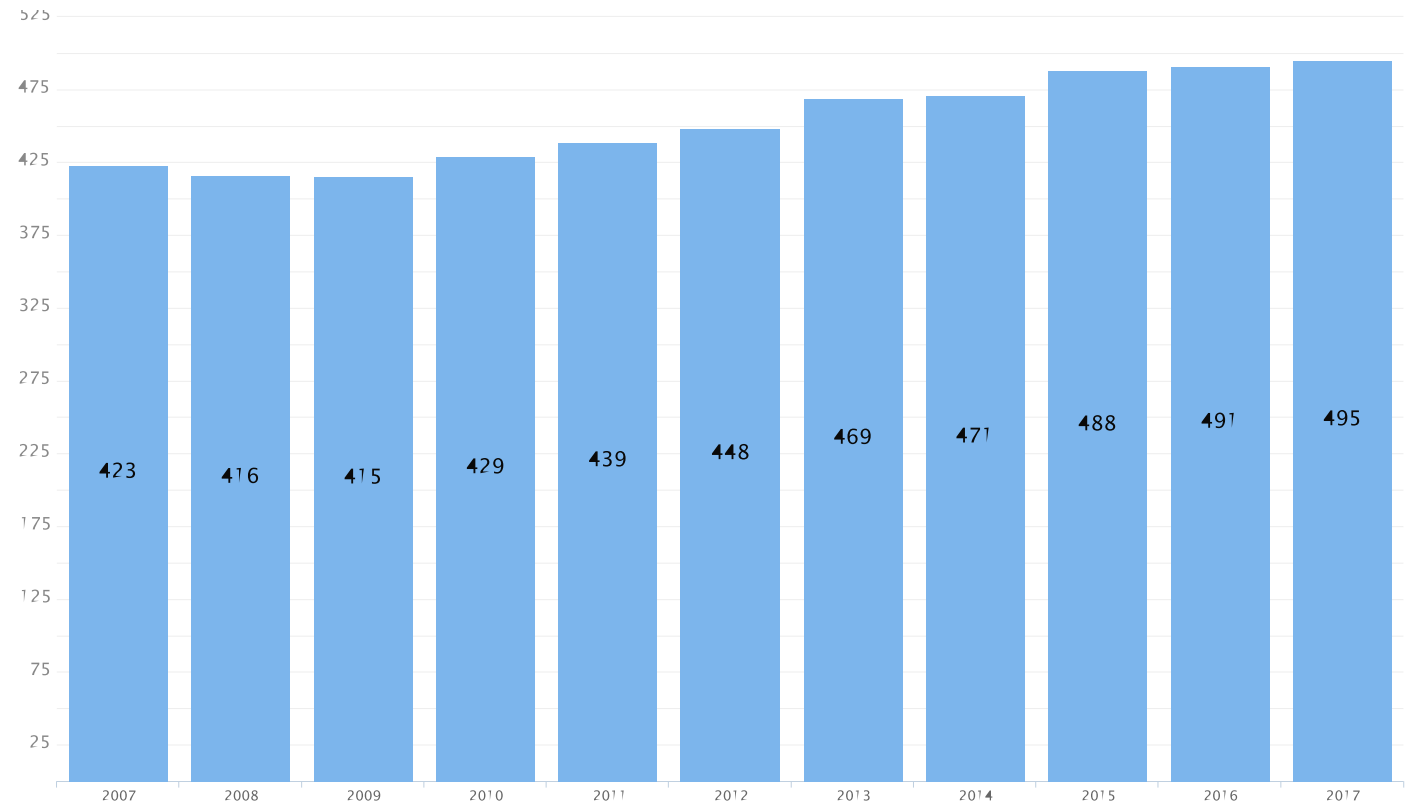
	Empl	%
Private	21,415	91.1%
Self-Employment	629	2.7%
Local Government	301	1.3%
Federal Government	613	2.6%
Other Non-Covered	558	2.4%

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 2017, there were 495 Transportation and Logistics (NKY) establishments in the Northern Kentucky, KY WDA (per covered employment establishment counts), an increase from 423 establishments ten years earlier in 2007.



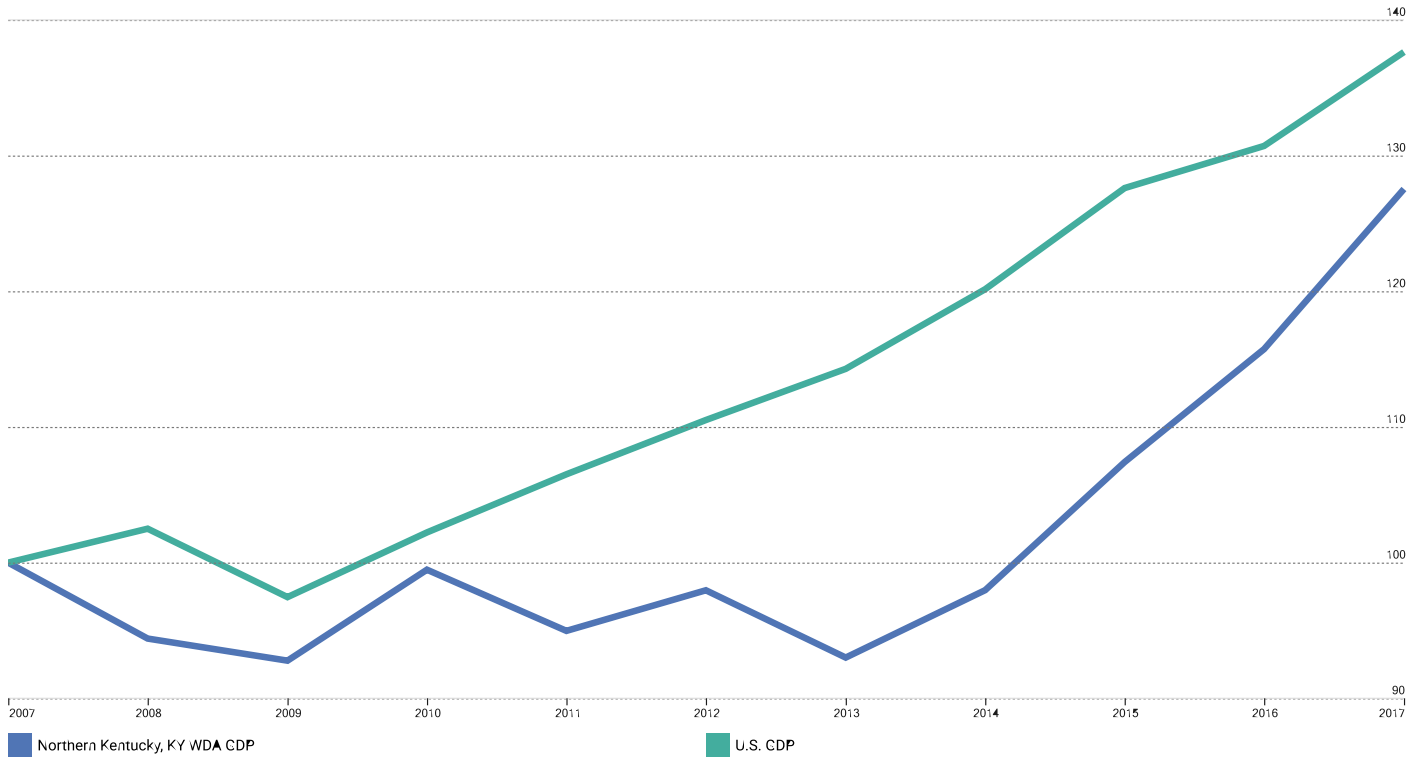
Source: JobsEQ*

 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 2017, Transportation and Logistics (NKY) produced \$1.9 billion in GDP for the Northern Kentucky, KY WDA.

GDP: Indexed 2007 = 100



8.5 %

Industry Share of Total GDP /
3.7 % in the nation



2.5 % ↑

Avg Ann % Change Last 10 Yrs /
3.2 % in the nation



\$194k

Output per Worker /
\$191k 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.

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

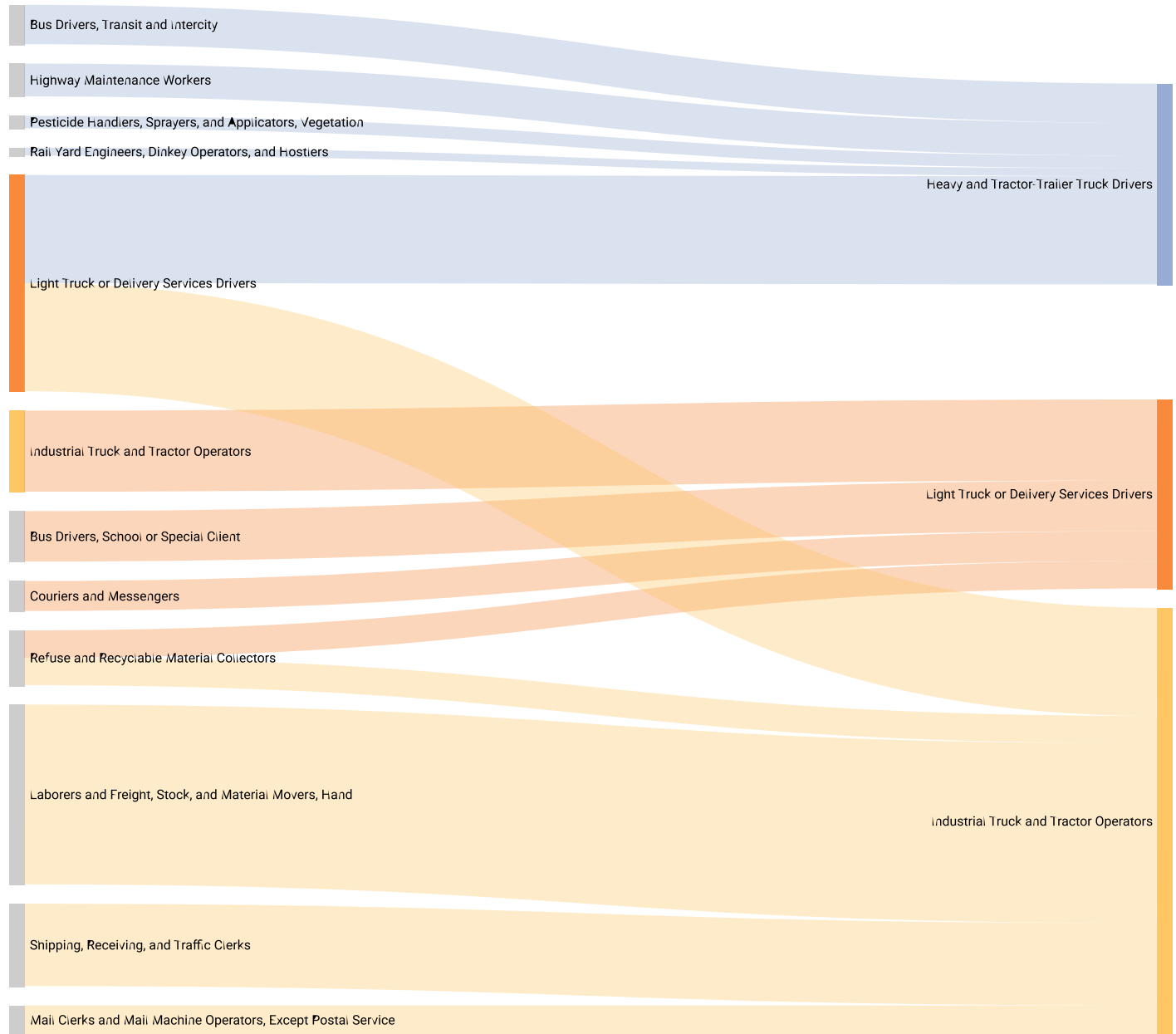
Supply Chain: Top Suppliers


As of 2018Q4, Transportation and Logistics (NKY) in the Northern Kentucky, KY WDA are estimated to make \$2.0 billion in annual purchases from suppliers in the United States with about 32% or \$0.6 billion of these purchases being made from businesses located in the Northern Kentucky, KY WDA.

6-digit Supplier Industries	Purchases from In-Region (\$000s)	Purchases from Out-of-Region (\$000s)
Petroleum Refineries	\$138.0	\$283,962.0
Couriers and Express Delivery Services	\$69,615.0	\$499.0
Freight Transportation Arrangement	\$56,143.0	\$2,274.0
Postal Service	\$24,896.0	\$29,771.0
Crude Petroleum Extraction	\$73.0	\$52,205.0
Remaining Supplier Industries	\$467,044.0	\$964,693.0
Total	\$617,909.0	\$1,333,404.0

 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 Transportation and Logistics (NKY)

Program	Awards
Gateway Community and Technical College	
Automobile/Automotive Mechanics Technology/Technician	80
Business Administration and Management, General	162
Computer and Information Sciences, General	538
Diesel Mechanics Technology/Technician	11
Industrial Mechanics and Maintenance Technology	168
Manufacturing Engineering Technology/Technician	67
Northern Kentucky University	
Human Resources Development	21
Manufacturing Engineering Technology/Technician	33
Organizational Behavior Studies	174
Thomas More College	
Business Administration and Management, General	210

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 the Northern Kentucky, KY WDA, the sampling above identifies those most linked to occupations relevant to Transportation and Logistics (NKY).

Industry Definition

Transportation and Logistics (NKY) is defined as the following NAICS industries:

Code	Description
481111	Scheduled Passenger Air Transportation
481112	Scheduled Freight Air Transportation
481211	Nonscheduled Chartered Passenger Air Transportation
481212	Nonscheduled Chartered Freight Air Transportation
481219	Other Nonscheduled Air Transportation
482110	Rail Transportation (non-covered)
482111	Line-Haul Railroads
482112	Short Line Railroads
483111	Deep Sea Freight Transportation
483112	Deep Sea Passenger Transportation
483113	Coastal and Great Lakes Freight Transportation
483114	Coastal and Great Lakes Passenger Transportation
483211	Inland Water Freight Transportation
483212	Inland Water Passenger Transportation
484110	General Freight Trucking, Local
484121	General Freight Trucking, Long-Distance, Truckload
484122	General Freight Trucking, Long-Distance, Less Than Truckload
484210	Used Household and Office Goods Moving
484220	Specialized Freight (except Used Goods) Trucking, Local
484230	Specialized Freight (except Used Goods) Trucking, Long-Distance
485111	Mixed Mode Transit Systems
485112	Commuter Rail Systems
485113	Bus and Other Motor Vehicle Transit Systems
485119	Other Urban Transit Systems
485210	Interurban and Rural Bus Transportation
485310	Taxi Service
485320	Limousine Service
485410	School and Employee Bus Transportation
485510	Charter Bus Industry
485991	Special Needs Transportation
485999	All Other Transit and Ground Passenger Transportation
486110	Pipeline Transportation of Crude Oil
486210	Pipeline Transportation of Natural Gas
486910	Pipeline Transportation of Refined Petroleum Products
486990	All Other Pipeline Transportation
487110	Scenic and Sightseeing Transportation, Land
487210	Scenic and Sightseeing Transportation, Water
487990	Scenic and Sightseeing Transportation, Other
488111	Air Traffic Control
488119	Other Airport Operations
488190	Other Support Activities for Air Transportation
488210	Support Activities for Rail Transportation
488310	Port and Harbor Operations
488320	Marine Cargo Handling
488330	Navigational Services to Shipping
488390	Other Support Activities for Water Transportation
488410	Motor Vehicle Towing
488490	Other Support Activities for Road Transportation

Transportation and Logistics (NKY) is defined as the following NAICS industries:

Code	Description
488510	Freight Transportation Arrangement
488991	Packing and Crating
488999	All Other Support Activities for Transportation
491110	Postal Service
492110	Couriers and Express Delivery Services
492210	Local Messengers and Local Delivery
493110	General Warehousing and Storage
493120	Refrigerated Warehousing and Storage
493130	Farm Product Warehousing and Storage
493190	Other Warehousing and Storage

Region Definition

Northern Kentucky, KY WDA is defined as the following counties:

Boone County, Kentucky

Campbell County, Kentucky

Carroll County, Kentucky

Gallatin County, Kentucky

Grant County, Kentucky

Kenton County, Kentucky

Owen County, Kentucky

Pendleton County, Kentucky

Data Notes

- Industry employment and wages (including total regional employment and wages) are as of 2018Q4 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 2018Q4 and is based on industry employment and local staffing patterns calculated by Chmura and utilizing BLS OES data. Occupation wages are per the BLS OES data and are as of 2017.
- 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 2016-2017 academic year.
- Establishment counts are per the BLS QCEW data.
- Figures may not sum due to rounding.

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.