



Industrial Development Authority

WORKFORCE ANALYSIS

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A map of the Lake Cumberland Area Development District, showing the county boundaries of the region in yellow and black outlines.

Lake Cumberland Area Development District
270-866-4200 or 800-264-7093
Adair - Casey - Clinton - Cumberland - Green - McCreary - Pulaski - Russell - Taylor - Wayne

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DEMOGRAPHICS



Industrial Development Authority

WORKFORCE

ANALYSIS

Demographics – Russell County Kentucky

Russell County, Kentucky currently has a population of 17,684. The average annual population growth is 0.3% compared to the State average of 0.5%. The Poverty level in Russell County is 26.5% compared to the State level of 18.8%. Individuals received food stamps is at 19.2% of the population compared to the State average of 16.9%

Russell County has 10,407 residents that are within the working age of 18-64 or 58.84% of the total population. The population of residents under the age of 18 is 3,981 or 22.5%. The population of residents 65 and above is 3,296 or 18.7%.

Russell County currently shows 5,815 individuals employed in the lasted data released for November 2017 or 54.89% of the working age population. The highest level of employment came in June 2008 when 7,946 were employed. The lowest level of employment came in February 2015 when 5,330 were employed.

Russell County has experienced several consecutive years of high unemployment beginning in 2009. The annual unemployment rate for 2008 was at 7.3%, with the lowest month since 2007 occurring in September 2007 when the rate was 5.1%. Over the next seven year from 2009 to 2015 the annual unemployment rates ranged from a high of 12.8% in 2010 to a low of 10.2% in 2014. The one month high was in January 2010 when the rate reached 15.7%. These high rates were the result of the recession that began in 2008 and the closing of Fruit of the Loom Textile Factory with most layoffs occurring in 2014. The unemployment rate began to lower in 2016 with an annual rate of 8.3%. During the current year of 2017, the highest unemployment rate was reached in January with a 9.7% rate and a low occurring in September with a 5.6% rate. The lowering of the unemployment rate can be attributed to ending of the recession and the vast majority of individuals that lost their job at Fruit of the Loom either becoming employed or exhausting unemployment benefits.

One of the pressing issues with workforce facing Russell County as well as the State as a whole is the non-participation rate. Russell County has a non-participation rate for November 2017 was 45.10% which is above the State average of 43%. Non-participating rates come from those that are within the working age of 18-64 but not showing as employed.

Russell County has 18.8% of its working age population that is disabled. The State average is 15.8%. Of those that are counted as disabled 23.4% of those are employed which is below the state average of 33.1%. The balance, or 76.6% of those showing disabled will show in the non-participation rate.

	Summary ¹			Value		
	Percent					
	Russell County, Kentucky	Cumberlands, KY WDA	Kentucky	Russell County, Kentucky	Cumberlands, KY WDA	Kentucky
Demographics						
Population (ACS)	—	—	—	17,684	321,022	4,411,989
Male	48.9%	49.4%	49.2%	8,652	158,536	2,172,745
Female	51.1%	50.6%	50.8%	9,032	162,486	2,239,244
Median Age ²	—	—	—	43.4	40.5	38.6
Under 18 Years	22.5%	22.7%	23.0%	3,981	72,833	1,014,190
18 to 24 Years	7.2%	9.0%	9.7%	1,279	28,791	427,726
25 to 34 Years	10.7%	11.7%	12.8%	1,898	37,431	566,828
35 to 44 Years	11.8%	12.3%	12.7%	2,082	39,602	560,760
45 to 54 Years	15.0%	14.1%	13.9%	2,657	45,373	611,789
55 to 64 Years	14.1%	13.5%	13.1%	2,491	43,270	577,696
65 to 74 Years	10.7%	10.0%	8.7%	1,890	32,019	384,692
75 Years, and Over	8.0%	6.8%	6.1%	1,406	21,703	268,308
Race: White	95.8%	95.7%	87.5%	16,938	307,301	3,859,516
Race: Black or African American	0.2%	1.7%	7.9%	44	5,431	350,242
Race: American Indian and Alaska Native	0.1%	0.3%	0.2%	24	933	9,052
Race: Asian	0.4%	0.4%	1.3%	75	1,357	57,084
Race: Native Hawaiian and Other Pacific Islander	0.7%	0.1%	0.1%	126	234	2,584
Race: Some Other Race	1.8%	0.5%	0.9%	322	1,516	40,674
Race: Two or More Races	0.9%	1.3%	2.1%	155	4,250	92,837
Hispanic or Latino (of any race)	3.5%	2.0%	3.3%	624	6,300	146,945
Population Growth						
Population (Pop Estimates) ⁵	—	—	—	17,722	321,305	4,436,974
Population Annual Average Growth ⁵	0.3%	0.2%	0.5%	49	785	21,774
Economic						
Labor Force Participation Rate and Size (civilian population 16 years and over)	48.7%	50.9%	59.2%	6,894	130,677	2,070,698
Armed Forces Labor Force	0.0%	0.1%	0.4%	0	130	14,735
Veterans, Age 18-64	4.0%	5.0%	5.8%	416	9,621	158,252
Median Household Income ²	—	—	—	\$31,539	\$32,984	\$44,811
Per Capita Income	—	—	—	\$17,702	\$18,501	\$24,802
Poverty Level (of all people)	26.5%	25.4%	18.8%	4,606	79,064	804,139
Households Receiving Food Stamps	19.2%	22.6%	16.9%	1,362	27,950	290,270
Mean Commute Time (minutes)	—	—	—	20.3	21.5	23.0

Commute via Public Transportation	0.3%	0.2%	1.1%	21	281	20,408
Union Membership ³	11.2%	10.7%	10.8%	—	—	—
Educational Attainment, Age 25-64						
No High School Diploma	20.4%	17.8%	12.5%	1,860	29,552	288,805
High School Graduate	36.5%	40.1%	32.5%	3,328	66,429	753,532
Some College, No Degree	20.2%	19.9%	21.9%	1,847	32,986	507,904
Associate's Degree	8.3%	7.9%	8.9%	758	13,154	205,959
Bachelor's Degree	8.3%	8.3%	14.7%	760	13,763	341,088
Postgraduate Degree	6.3%	5.9%	9.5%	575	9,792	219,785
Housing						
Total Housing Units	—	—	—	9,947	148,823	1,951,090
Median House Value (of owner-occupied units) ²	—	—	—	\$88,600	\$90,115	\$126,100
Homeowner Vacancy	0.2%	1.6%	1.9%	11	1,465	21,980
Rental Vacancy	8.8%	6.7%	6.0%	181	2,630	36,766
Renter-Occupied Housing Units (% of Occupied Units)	25.6%	29.1%	33.2%	1,814	35,861	570,314
Occupied Housing Units with No Vehicle Available (% of Occupied Units)	9.3%	8.2%	7.8%	658	10,161	133,316
Social						
Enrolled in Grade 12 (% of total population)	1.2%	1.3%	1.3%	209	4,080	55,299
Disconnected Youth ⁴	14.5%	5.0%	3.2%	113	860	7,294
Children in Single Parent Families (% of all children)	38.1%	35.4%	35.7%	1,360	23,362	334,388
With a Disability, Age 18-64	18.8%	19.5%	15.8%	1,947	37,279	424,996
With a Disability, Age 18-64, Labor Force Participation Rate and Size	23.4%	24.2%	33.1%	456	9,014	140,611
Foreign Born	2.3%	1.2%	3.5%	400	3,827	154,143
Speak English Less Than Very Well (population 5 yrs and over)	2.4%	0.8%	2.1%	397	2,303	88,659

Source: JobsEQ®

- American Community Survey 2012-2016, unless noted otherwise
- Median values for certain aggregate regions (such as MSAs) may be estimated as the weighted averages of the median values from the composing counties.
- 2016; Current Population Survey, unionstats.com, and Chmura; county- and zip-level data are best estimates based upon industry-, MSA-, and state-level data
- Disconnected Youth are 16-19 year olds who are (1) not in school, (2) not high school graduates, and (3) either unemployed or not in the labor force.
- Census 2016, annual average growth rate since 2006

Exported on: Monday, January 8, 2018 5:30 PM

2018

Month	Area Title	Civilian Labor Force	Employment	Unemployment	Unemployment Rate
January	Russell County	6,111	5,519	592	9.7%
February	Russell County	6,169	5,587	582	9.4%
March	Russell County	6,257	5,698	559	8.9%
April	Russell County	6,277	5,812	465	7.4%
May	Russell County	6,392	5,873	519	8.1%
June	Russell County	6,363	5,878	485	7.6%
July	Russell County	6,327	5,839	488	7.7%
August	Russell County	6,141	5,716	425	6.9%
September	Russell County	6,343	5,982	361	5.7%
October	Russell County	6,185	5,820	365	5.9%
November	Russell County	6,159	5,815	344	5.6%
December	Russell County				
Annual	Russell County				

Source: Local Area Unemployment Statistics (LAUS) Program

Updated: January 4, 2018

2017

Month	Area Title	Civilian Labor Force	Employment	Unemployment	Unemployment Rate
January	Russell County	6,111	5,519	592	9.7%
February	Russell County	6,169	5,587	582	9.4%
March	Russell County	6,257	5,698	559	8.9%
April	Russell County	6,277	5,812	465	7.4%
May	Russell County	6,392	5,873	519	8.1%
June	Russell County	6,363	5,878	485	7.6%
July	Russell County	6,327	5,839	488	7.7%
August	Russell County	6,141	5,716	425	6.9%
September	Russell County	6,334	5,981	353	5.6%
October	Russell County				
November	Russell County				
December	Russell County				
Annual	Russell County				

Source: Local Area Unemployment Statistics (LAUS) Program
 Updated: October 26, 2017

2016					
Month	Area Title	Civilian Labor Force	Employment	Unemployment	Unemployment Rate
January	Russell County	6,143	5,392	751	12.2%
February	Russell County	6,038	5,407	631	10.5%
March	Russell County	6,106	5,531	575	9.4%
April	Russell County	6,024	5,577	447	7.4%
May	Russell County	6,074	5,627	447	7.4%
June	Russell County	6,232	5,755	477	7.7%
July	Russell County	6,075	5,632	443	7.3%
August	Russell County	5,983	5,536	447	7.5%
September	Russell County	6,171	5,721	450	7.3%
October	Russell County	6,020	5,559	461	7.7%
November	Russell County	6,001	5,577	424	7.1%
December	Russell County	6,007	5,519	488	8.1%
Annual	Russell County	6,072	5,569	503	8.3%
Source: Local Area Unemployment Statistics (LAUS) Program					
Updated: October 26, 2017					

2015					
Month	Area Title	Civilian Labor Force	Employment	Unemployment	Unemployment Rate
January	Russell County	6,226	5,357	869	14.0%
February	Russell County	6,142	5,330	812	13.2%
March	Russell County	6,135	5,372	763	12.4%
April	Russell County	6,034	5,404	630	10.4%
May	Russell County	6,258	5,506	752	12.0%
June	Russell County	6,356	5,593	763	12.0%
July	Russell County	6,228	5,467	761	12.2%
August	Russell County	6,049	5,242	807	13.3%
September	Russell County	6,090	5,482	608	10.0%
October	Russell County	6,000	5,408	592	9.9%
November	Russell County	6,050	5,449	601	9.9%
December	Russell County	6,019	5,359	660	11.0%
Annual	Russell County	6,132	5,414	718	11.7%
Source: Local Area Unemployment Statistics (LAUS) Program					
Updated: October 26, 2017					

2014					
Month	Area Title	Civilian Labor Force	Employment	Unemployment	Unemployment Rate
January	Russell County	6,750	5,956	794	11.8%
February	Russell County	6,832	5,977	855	12.5%
March	Russell County	6,874	6,086	788	11.5%
April	Russell County	6,720	6,086	634	9.4%
May	Russell County	6,695	6,087	608	9.1%
June	Russell County	6,868	6,252	616	9.0%
July	Russell County	6,675	6,102	573	8.6%
August	Russell County	6,722	6,144	578	8.6%
September	Russell County	6,481	5,935	546	8.4%
October	Russell County	6,067	5,480	587	9.7%
November	Russell County	6,209	5,466	743	12.0%
December	Russell County	6,157	5,402	755	12.3%
Annual	Russell County	6,587	5,914	673	10.2%
Source: Local Area Unemployment Statistics (LAUS) Program					
Updated: October 26, 2017					

2013

Month	Area Title	Civilian Labor Force	Employment	Unemployment	Unemployment Rate
January	Russell County	7,145	6,187	958	13.4%
February	Russell County	7,086	6,199	887	12.5%
March	Russell County	7,138	6,223	915	12.8%
April	Russell County	7,132	6,292	840	11.8%
May	Russell County	7,144	6,384	760	10.6%
June	Russell County	7,226	6,405	821	11.4%
July	Russell County	7,069	6,292	777	11.0%
August	Russell County	7,011	6,231	780	11.1%
September	Russell County	7,014	6,236	778	11.1%
October	Russell County	6,815	6,057	758	11.1%
November	Russell County	6,860	6,082	778	11.3%
December	Russell County	6,810	6,040	770	11.3%
Annual	Russell County	7,038	6,219	819	11.6%

Source: Local Area Unemployment Statistics (LAUS) Program
 Updated: October 26, 2017

2012

Month	Area Title	Civilian Labor Force	Employment	Unemployment	Unemployment Rate
January	Russell County	7,009	6,166	843	12.0%
February	Russell County	7,156	6,276	880	12.3%
March	Russell County	7,197	6,400	797	11.1%
April	Russell County	7,176	6,431	745	10.4%
May	Russell County	7,274	6,571	703	9.7%
June	Russell County	7,390	6,674	716	9.7%
July	Russell County	7,220	6,519	701	9.7%
August	Russell County	7,208	6,532	676	9.4%
September	Russell County	7,229	6,568	661	9.1%
October	Russell County	7,314	6,573	741	10.1%
November	Russell County	7,235	6,528	707	9.8%
December	Russell County	7,276	6,493	783	10.8%
Annual	Russell County	7,224	6,478	746	10.3%

Source: Local Area Unemployment Statistics (LAUS) Program
 Updated: October 26, 2017

2011

Month	Area Title	Civilian Labor Force	Employment	Unemployment	Unemployment Rate
January	Russell County	7,211	6,196	1,015	14.1%
February	Russell County	7,263	6,270	993	13.7%
March	Russell County	7,352	6,379	973	13.2%
April	Russell County	7,322	6,426	896	12.2%
May	Russell County	7,392	6,579	813	11.0%
June	Russell County	7,480	6,647	833	11.1%
July	Russell County	7,286	6,453	833	11.4%
August	Russell County	7,404	6,605	799	10.8%
September	Russell County	7,502	6,685	817	10.9%
October	Russell County	7,333	6,563	770	10.5%
November	Russell County	7,346	6,556	790	10.8%
December	Russell County	7,311	6,496	815	11.1%
Annual	Russell County	7,350	6,488	862	11.7%

Source: Local Area Unemployment Statistics (LAUS) Program
 Updated: October 26, 2017

2010

Month	Area Title	Civilian Labor Force	Employment	Unemployment	Unemployment Rate
January	Russell County	7,225	6,091	1,134	15.7%
February	Russell County	7,253	6,128	1,125	15.5%
March	Russell County	7,285	6,208	1,077	14.8%
April	Russell County	7,344	6,419	925	12.6%
May	Russell County	7,463	6,510	953	12.8%
June	Russell County	7,568	6,697	871	11.5%
July	Russell County	7,439	6,597	842	11.3%
August	Russell County	7,369	6,533	836	11.3%
September	Russell County	7,373	6,542	831	11.3%
October	Russell County	7,120	6,271	849	11.9%
November	Russell County	7,082	6,188	894	12.6%
December	Russell County	7,032	6,143	889	12.6%
Annual	Russell County	7,297	6,361	936	12.8%

Source: Local Area Unemployment Statistics (LAUS) Program
 Updated: October 26, 2017

2009

Month	Area Title	Civilian Labor Force	Employment	Unemployment	Unemployment Rate
January	Russell County	8,169	6,981	1,188	14.5%
February	Russell County	8,054	6,931	1,123	13.9%
March	Russell County	8,207	7,137	1,070	13.0%
April	Russell County	8,229	7,324	905	11.0%
May	Russell County	8,452	7,451	1,001	11.8%
June	Russell County	8,651	7,625	1,026	11.9%
July	Russell County	8,603	7,702	901	10.5%
August	Russell County	8,539	7,672	867	10.2%
September	Russell County	8,537	7,677	860	10.1%
October	Russell County	8,482	7,455	1,027	12.1%
November	Russell County	8,486	7,521	965	11.4%
December	Russell County	8,542	7,372	1,170	13.7%
Annual	Russell County	8,413	7,404	1,009	12.0%

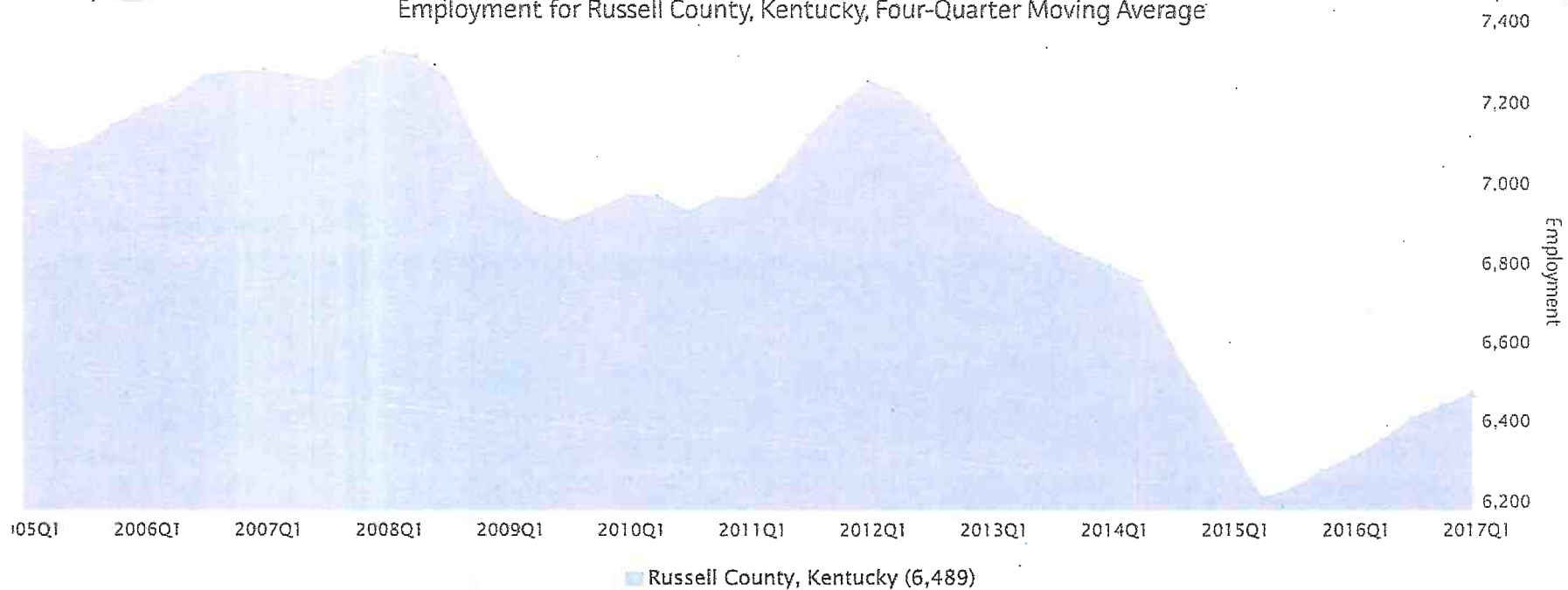
Source: Local Area Unemployment Statistics (LAUS) Program
 Updated: October 26, 2017

2008

Month	Area Title	Civilian Labor Force	Employment	Unemployment	Unemployment Rate
January	Russell County	8,071	7,542	529	6.6%
February	Russell County	8,136	7,566	570	7.0%
March	Russell County	8,142	7,597	545	6.7%
April	Russell County	8,238	7,756	482	5.9%
May	Russell County	8,329	7,807	522	6.3%
June	Russell County	8,489	7,946	543	6.4%
July	Russell County	8,411	7,880	531	6.3%
August	Russell County	8,392	7,734	658	7.8%
September	Russell County	8,143	7,615	528	6.5%
October	Russell County	8,190	7,471	719	8.8%
November	Russell County	8,202	7,407	795	9.7%
December	Russell County	8,112	7,293	819	10.1%
Annual	Russell County	8,238	7,635	603	7.3%

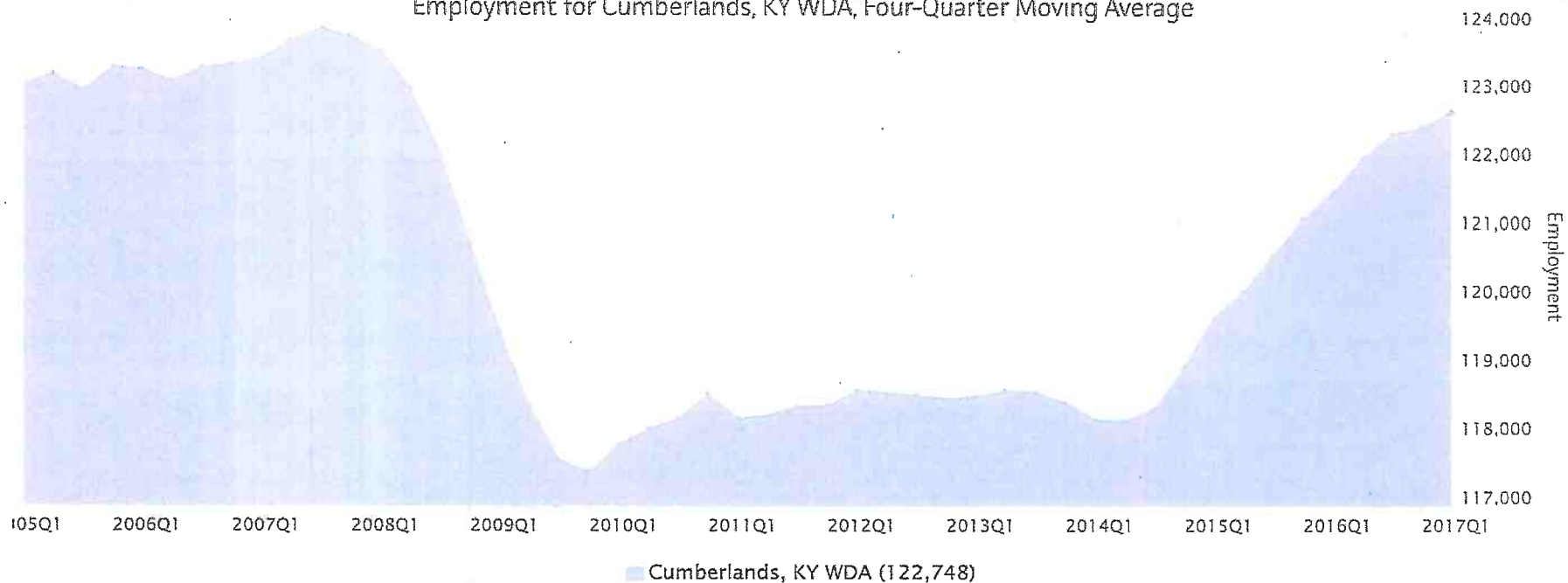
Source: Local Area Unemployment Statistics (LAUS) Program
 Updated: October 26, 2017

Employment for Russell County, Kentucky, Four-Quarter Moving Average



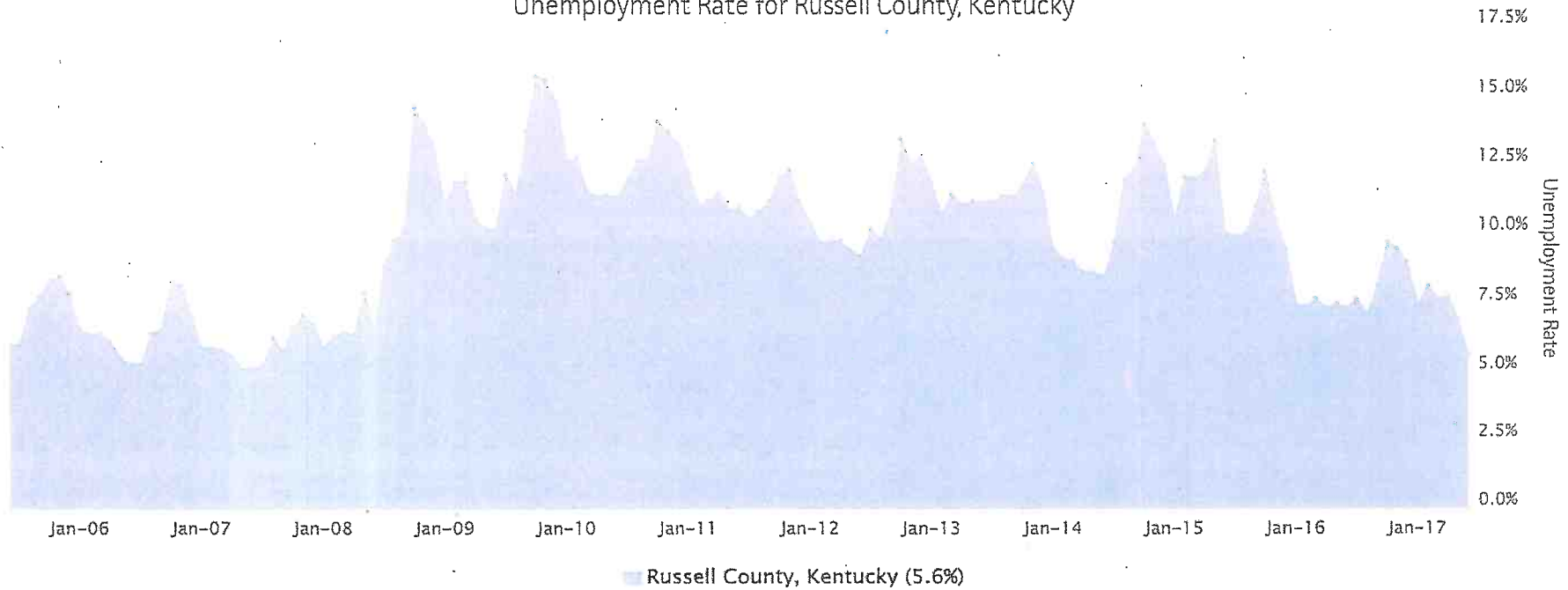
Source: JobsLO. Data as of 2017Q2. The shaded areas represent national recessions.

Employment for Cumberlands, KY WDA, Four-Quarter Moving Average



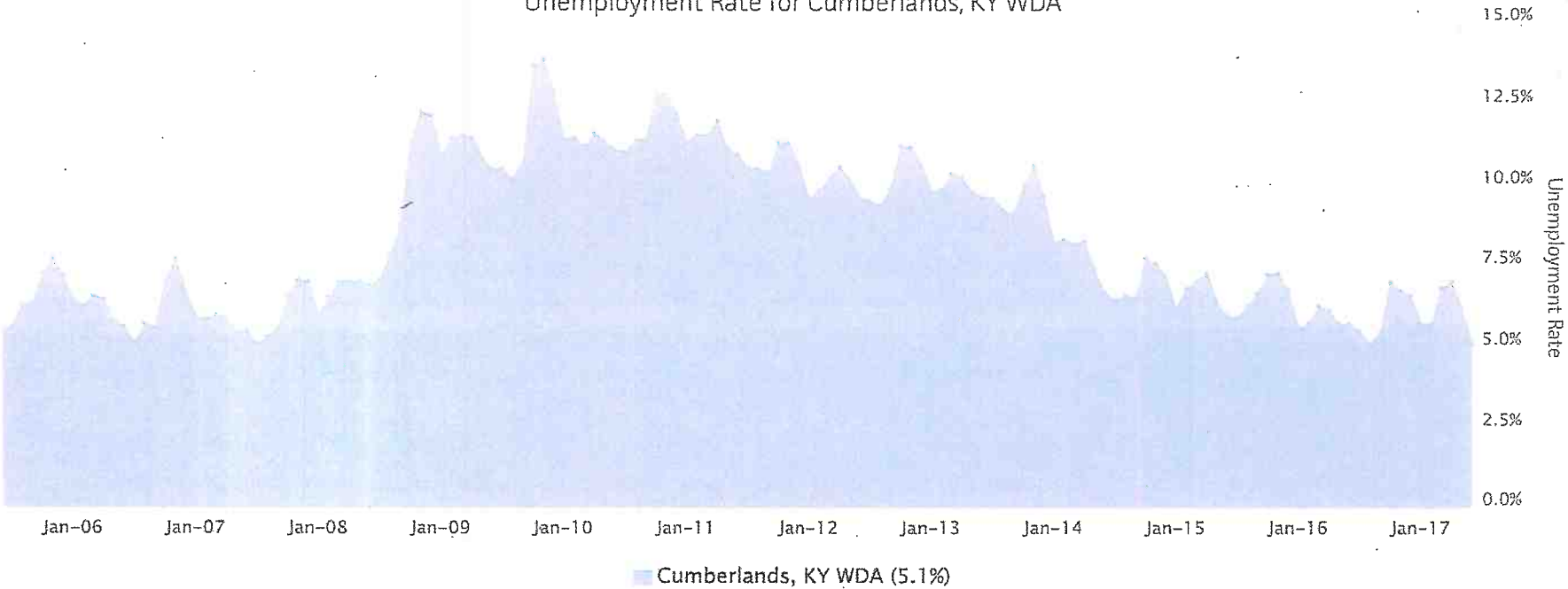
Source: JobsEQ. Data as of 2017Q2. The shaded areas represent national recessions.

Unemployment Rate for Russell County, Kentucky



Source: JobsIQ+. Data as of Sep 2017. The shaded areas represent national recessions.

Unemployment Rate for Cumberlands, KY WDA



Source: JobsIQ. Data as of Sep 2017. The shaded areas represent national recessions.

WAGES & OCCUPATIONS



Industrial Development Authority

WORKFORCE

ANALYSIS

Wages and Occupations – Russell County

Wages for individuals employed in Russell County has continued to increase. Annual wages has increased from an average of \$22,608 in the 4th quarter of 2005 to an average of \$29,620 at the end of the 2nd quarter in 2017. The Total Average Wages has increase from \$42 million in the 4th quarter of 2005 to a high average of 53 million in 2011. Average for the 2nd quarter in 2017 is \$50 million.

<i>Average Annual Wages</i>	<i>Total Wages</i>
2005 4 th Quarter - \$22,608	2005 4 th Quarter - \$42 Million
2006 4 th Quarter - \$23,898	2006 4 th Quarter - \$45 Million
2007 4 th Quarter - \$24,608	2007 4 th Quarter - \$46 Million
2008 4 th Quarter - \$25,148	2008 4 th Quarter - \$45 Million
2009 4 th Quarter - \$25,723	2009 4 th Quarter - \$49 Million
2010 4 th Quarter - \$26,442	2010 4 th Quarter - \$48 Million
2011 4 th Quarter- \$28,707	2011 4 th Quarter - \$53 Million
2012 4 th Quarter - \$28,750	2012 4 th Quarter - \$51 Million
2013 4 th Quarter - \$28,299	2013 4 th Quarter - \$49 Million
2014 4 th Quarter - \$28,669	2014 4 th Quarter - \$46 Million
2015 4 th Quarter - \$28,897	2015 4 th Quarter - \$48 Million
2016 4 th Quarter - \$29,376	2016 4 th Quarter - \$49 Million
2017 2 nd Quarter- \$29,620	2017 2 nd Quarter - \$50 Million

For the purpose of using the information below the Standard Occupational Classification (SOC) codes are used.

The 2010 Standard Occupational Classification (SOC) system is used by Federal statistical agencies to classify workers into occupational categories for the purpose of collecting, calculating, or disseminating data. All workers are classified into one of 840 detailed occupations according to their occupational definition. To facilitate classification, detailed occupations are combined to form 461 broad occupations, 97 minor groups, and 23 major groups. Detailed occupations in the SOC with similar job duties, and in some cases skills, education, and/or training, are grouped together.

All reports contained in the section use the North American Industry Classification Code (NAICS) codes. The North American Industry Classification System (NAICS) is the standard used by Federal

statistical agencies in classifying business establishments for the purpose of collecting, analyzing, and publishing statistical data related to the U.S. business economy.

Both sets of codes may be used for your review.

The occupation showing the largest number of employment in Russell County is Production Operations with 1,095. The second largest is Office and Administrative Support occupations with 716 and third is Sales and related occupations with 626. For this report, the occupations are broken down into 23 different industries with total employment of 6,489.

Of the 23 different industries, Management occupations have the highest annual wage at \$75,300. The second highest annual wage is Architecture and Engineering occupations at \$61,600 and the third is Computer and Mathematical at \$59,700. Healthcare Practitioners and Technical occupations are next at \$59,500. The lowest annual wages is Food Preparation and Serving related occupations at \$17,900.

During the past 5 years the change in total employment has decreased by 782 individuals. Average annual percentage change in employment for Russell County for the period of the 2nd quarter of 2012 to the 2nd quarter of 2017 is -2.3%. For the counties in the Cumberland Workforce Area the percentage for the same period showed an increase of .7% while the State showed a 1.2% increase over the same period.

The Forecast over the next 10 years for employment in Russell County shows a total grow demand of -31 jobs. However, the total approximate replace demand will allow for 1,772 plus 291 current online job applications employment opportunities.

Occupation Snapshot in Russell County, Kentucky

SOC	Title	Current					Historical				Forecast			
		Four Quarters Ending with 2017q3			2017q3		Total Change over the Last 5 Years	Avg Ann % Chg in Empl 2012q3-2017q3			Over the Next 1 Year			
		Empl	Avg. Annual Wages ¹	Location Quotient	Unempl	Unempl Rate	Empl	Russell	Cumberland	Kentucky	Current Online Job Ads ²	Total Sep Demand	Total Growth Demand	Avg. Annual Growth Percent
								County, Kentucky	s, KY WDA					
11-0000	Management Occupations	575	\$75,300	1.46	9	1.7%	-33	-1.1%	0.2%	0.8%	6	43	0	0.0%
13-0000	Business and Financial Operations Occupations	147	\$49,500	0.44	6	4.4%	-14	-1.8%	0.9%	1.2%	4	13	0	0.2%
15-0000	Computer and Mathematical Occupations	53	\$59,700	0.28	2	4.1%	-14	-4.6%	-1.8%	1.0%	2	4	0	0.6%
17-0000	Architecture and Engineering Occupations	110	\$61,600	1.00	4	4.1%	-12	-2.0%	-0.1%	1.3%	0	8	0	0.3%
19-0000	Life, Physical, and Social Science Occupations	18	\$49,000	0.34	1	4.4%	-6	-5.8%	0.4%	0.3%	0	2	0	0.6%
21-0000	Community and Social Service Occupations	145	\$34,700	1.39	4	3.2%	12	1.8%	-0.8%	0.4%	0	16	3	1.7%
23-0000	Legal Occupations	26	\$53,600	0.48	0	n/a	-1	-0.5%	-0.6%	-0.1%	0	1	0	0.6%
25-0000	Education, Training, and Library Occupations	381	\$38,900	1.03	27	7.3%	-14	-0.7%	-0.8%	-0.6%	0	32	2	0.4%
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	59	\$30,000	0.50	3	4.4%	-18	-5.2%	0.0%	0.2%	3	6	0	-0.3%
29-0000	Healthcare Practitioners and Technical Occupations	312	\$59,500	0.84	8	2.7%	-135	-7.0%	0.0%	1.0%	14	18	4	1.3%
31-0000	Healthcare Support Occupations	144	\$25,200	0.79	12	7.4%	-37	-4.5%	-0.1%	1.0%	8	17	3	2.3%
33-0000	Protective Service Occupations	109	\$30,800	0.78	4	4.2%	-1	-0.1%	-0.4%	0.4%	0	10	0	0.0%
35-0000	Food Preparation and Serving Related Occupations	503	\$17,900	0.89	52	9.5%	-4	-0.1%	2.2%	2.3%	39	86	2	0.4%
37-0000	Building and Grounds Cleaning and Maintenance Occupations	194	\$22,300	0.84	15	7.2%	-27	-2.5%	0.2%	1.0%	5	24	1	0.5%
39-0000	Personal Care and Service Occupations	230	\$22,300	0.90	16	6.9%	-2	-0.1%	-0.1%	1.2%	1	36	4	1.8%
41-0000	Sales and Related Occupations	629	\$26,700	0.93	40	6.3%	-10	-0.3%	1.5%	1.2%	59	89	-1	-0.2%
43-0000	Office and Administrative Support Occupations	735	\$28,000	0.76	46	6.1%	-74	-1.9%	2.2%	1.5%	17	78	-4	-0.6%
45-0000	Farming, Fishing, and Forestry Occupations	22	\$26,200	0.50	2	7.2%	-5	-3.8%	2.4%	1.7%	0	3	0	-0.7%
47-0000	Construction and Extraction Occupations	359	\$34,400	1.21	30	8.2%	-137	-6.2%	-1.6%	0.0%	1	36	2	0.6%
49-0000	Installation, Maintenance, and Repair Occupations	300	\$36,900	1.20	14	4.8%	-47	-2.9%	0.8%	0.9%	2	28	0	0.1%
51-0000	Production Occupations	1,139	\$30,700	2.86	91	8.3%	-55	-0.9%	0.6%	2.5%	8	120	-15	-1.3%
53-0000	Transportation and Material Moving Occupations	358	\$28,100	0.81	34	8.2%	-62	-3.1%	2.6%	1.7%	62	42	-1	-0.3%
00-0000	Total - All Occupations	6,550	\$34,900	1.00	n/a	n/a	-694	-2.0%	0.8%	1.2%	232	712	3	0.0%

Source: JobsEQ®

Data as of 2017Q3 unless noted otherwise

Note: Figures may not sum due to rounding.

1. Occupation wages are as of 2016 and should be taken as the average for all Covered Employment

2. Data represent found online ads active within the last thirty days in any zip code intersecting or within the selected region; data represents a sampling rather than the complete universe of postings.

Exported on: Tuesday, January 9, 2018 9:49 AM

Occupation Wages in Russell County, Kentucky, 2016

Average Annual Wages

SOC	Title	Mean	Entry Level	Experienced	10%	25%	Percentiles 50% (Median)	75%	90%	Comparison Regions		
										Cumberlands, KY WDA		Kentucky
										Mean	Mean	Mean
11-0000	Management Occupations	\$75,300	\$39,700	\$93,100	\$35,400	\$48,700	\$67,100	\$95,200	\$128,700	\$81,200	\$94,000	
13-0000	Business and Financial Operations Occupations	\$49,500	\$29,600	\$59,400	\$26,600	\$35,200	\$45,400	\$60,300	\$78,100	\$53,000	\$62,200	
15-0000	Computer and Mathematical Occupations	\$59,700	\$38,000	\$70,500	\$35,000	\$44,500	\$56,400	\$72,500	\$92,500	\$62,100	\$69,500	
17-0000	Architecture and Engineering Occupations	\$61,600	\$41,900	\$71,400	\$39,100	\$48,400	\$61,100	\$75,400	\$87,000	\$63,200	\$73,300	
19-0000	Life, Physical, and Social Science Occupations	\$49,000	\$32,700	\$57,100	\$30,700	\$37,500	\$47,300	\$58,300	\$71,300	\$51,400	\$55,500	
21-0000	Community and Social Service Occupations	\$34,700	\$24,500	\$39,800	\$23,100	\$27,600	\$33,700	\$41,100	\$49,200	\$37,900	\$41,300	
23-0000	Legal Occupations	\$53,600	\$35,000	\$62,900	\$32,500	\$40,200	\$48,100	\$63,700	\$85,300	\$56,000	\$76,200	
25-0000	Education, Training, and Library Occupations	\$38,900	\$29,800	\$43,500	\$28,400	\$32,900	\$39,000	\$45,800	\$51,700	\$44,200	\$48,300	
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	\$30,000	\$18,200	\$35,900	\$17,000	\$19,900	\$27,000	\$37,700	\$52,000	\$32,000	\$44,100	
29-0000	Healthcare Practitioners and Technical Occupations	\$59,500	\$42,600	\$68,000	\$40,500	\$47,600	\$58,100	\$69,400	\$83,100	\$70,000	\$71,000	
31-0000	Healthcare Support Occupations	\$25,200	\$18,300	\$28,600	\$17,600	\$19,600	\$23,000	\$31,200	\$36,200	\$26,300	\$28,600	
33-0000	Protective Service Occupations	\$30,800	\$22,100	\$35,100	\$21,300	\$24,200	\$28,600	\$37,000	\$45,500	\$31,500	\$34,400	
35-0000	Food Preparation and Serving Related Occupations	\$17,900	\$15,700	\$19,000	\$15,300	\$16,000	\$17,500	\$19,400	\$21,800	\$19,300	\$20,600	
37-0000	Building and Grounds Cleaning and Maintenance Occupations	\$22,300	\$16,900	\$25,000	\$16,100	\$18,100	\$21,100	\$25,300	\$31,300	\$23,500	\$24,600	
39-0000	Personal Care and Service Occupations	\$22,300	\$16,500	\$25,100	\$15,800	\$17,300	\$21,400	\$25,700	\$32,400	\$24,700	\$24,300	
41-0000	Sales and Related Occupations	\$26,700	\$17,800	\$31,200	\$16,900	\$19,200	\$23,500	\$30,000	\$40,200	\$30,000	\$35,100	
43-0000	Office and Administrative Support Occupations	\$28,000	\$19,900	\$32,100	\$18,800	\$21,900	\$26,300	\$32,700	\$40,800	\$29,500	\$33,400	
45-0000	Farming, Fishing, and Forestry Occupations	\$26,200	\$18,300	\$30,200	\$17,400	\$19,900	\$24,800	\$29,800	\$39,000	\$27,500	\$28,300	
47-0000	Construction and Extraction Occupations	\$34,400	\$24,100	\$39,600	\$22,500	\$27,200	\$32,500	\$40,200	\$50,500	\$37,300	\$44,100	
49-0000	Installation, Maintenance, and Repair Occupations	\$36,900	\$23,700	\$43,500	\$22,100	\$27,000	\$36,100	\$46,600	\$55,100	\$37,900	\$43,900	
51-0000	Production Occupations	\$30,700	\$21,700	\$35,200	\$20,500	\$24,200	\$29,800	\$36,700	\$43,900	\$31,300	\$37,000	
53-0000	Transportation and Material Moving Occupations	\$28,100	\$19,600	\$32,300	\$18,600	\$21,500	\$26,900	\$33,600	\$40,200	\$30,400	\$33,700	
00-0000	Total - All Occupations	\$34,900	\$24,200	\$40,300	\$22,900	\$27,000	\$33,200	\$41,400	\$50,900	\$37,400	\$42,400	

Source: JobsEQ®

Data as of 2016

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Wage Distribution by Percent Employed in Russell County, Kentucky

Total - All Occupations

	Russell County, Kentucky	Cumberlands, KY WDA	Kentucky
Greater than \$125,000	0.3%	0.9%	0.8%
\$100,000-\$125,000	0.6%	0.6%	1.4%
\$75,000-\$100,000	0.9%	3.5%	6.4%
\$50,000-\$75,000	8.8%	11.1%	18.0%
\$25,000-\$50,000	53.1%	57.5%	51.4%
Less than \$25,000	36.2%	26.4%	22.0%

[Source: JobsEQ®](#)

Data as of 2017Q3

Exported on: Tuesday, January 9, 2018 9:53 AM

Industry Snapshot in Russell County, Kentucky

NAICS	Industry	Current			Total Change over the Last 5 Years	Historical			Forecast		
		Four Quarters Ending with 2017q3				Average Annual % Change in Employment 2012q3-2017q3			Over the Next 1 Year		
		Employment	Avg. Annual Wages	Location Quotient		Employment	Russell County, Kentucky	Cumberlan d, KY WDA	Kentucky	Total Approx Sep Demand	Total Growth Demand
11	Agriculture, Forestry, Fishing and Hunting	311	\$16,319	3.35	-13	-0.8%	0.1%	0.4%	33	-2	-0.5%
21	Mining, Quarrying, and Oil and Gas Extraction	1	\$3,434	0.02	0	-4.4%	-10.0%	-13.9%	0	0	1.4%
22	Utilities	18	\$56,951	0.51	1	1.1%	3.2%	-0.1%	2	0	-0.3%
23	Construction	441	\$37,277	1.21	-225	-7.9%	-1.3%	1.8%	43	3	0.7%
31	Manufacturing	1,750	\$35,017	3.25	-126	-1.4%	0.8%	2.6%	182	-18	-1.0%
42	Wholesale Trade	51	\$27,068	0.20	-27	-8.2%	-0.4%	1.0%	5	0	-0.9%
44	Retail Trade	894	\$27,302	1.27	21	0.5%	1.4%	1.2%	119	-1	-0.1%
48	Transportation and Warehousing	126	\$34,546	0.46	34	6.4%	5.8%	2.8%	13	-2	-1.3%
51	Information	91	\$46,293	0.70	-17	-3.4%	3.9%	-2.2%	9	-1	-0.7%
52	Finance and Insurance	154	\$45,725	0.59	8	1.0%	0.3%	1.7%	14	0	-0.2%
53	Real Estate and Rental and Leasing	62	\$27,939	0.56	-16	-4.4%	-0.2%	1.5%	6	0	-0.3%
54	Professional, Scientific, and Technical Services	93	\$44,975	0.22	-34	-6.1%	-4.7%	1.4%	8	0	0.4%
55	Management of Companies and Enterprises Administrative and Support and Waste Management and Remediation Services	17	\$65,297	0.17	8	13.8%	4.9%	0.3%	2	0	0.1%
56	Management and Remediation Services	125	\$17,618	0.29	5	0.8%	4.3%	2.9%	14	1	0.8%
61	Educational Services	504	\$30,513	0.93	-9	-0.3%	-0.6%	-0.6%	47	1	0.2%
62	Health Care and Social Assistance	820	\$28,556	0.88	-231	-4.8%	-0.1%	1.1%	77	16	1.9%
71	Arts, Entertainment, and Recreation	84	\$24,916	0.65	-140	-17.8%	-0.9%	2.4%	12	1	0.6%
72	Accommodation and Food Services	455	\$12,135	0.77	46	2.2%	2.7%	2.6%	74	2	0.4%
81	Other Services (except Public Administration)	212	\$20,653	0.73	14	1.3%	-1.9%	-0.6%	24	1	0.3%
92	Public Administration	342	\$28,229	1.10	9	0.5%	0.3%	-0.4%	31	0	-0.1%
	Total - All Industries	6,550	\$30,220	1.00	-694	-2.0%	0.8%	1.2%	714	3	0.0%

Source: JobsEQ®

Data as of 2017Q3

Note: Figures may not sum due to rounding.

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Industry Snapshot in Cumberlands, KY WDA

NAICS	Industry	Current			Total Change over the Last 5 Years	Historical			Forecast		
		Four Quarters Ending with 2017q3				Average Annual % Change in Employment 2012q3-2017q3			Over the Next 1 Year		
		Employment	Avg. Annual Wages	Location Quotient		Employment	Cumberlan ds, KY WDA	Russell County, Kentucky	Kentucky	Total Approx Sep Demand	Total Growth Demand
11	Agriculture, Forestry, Fishing and Hunting	4,885	\$11,568	2.78	30	0.1%	-0.8%	0.4%	523	-30	-0.6%
21	Mining, Quarrying, and Oil and Gas Extraction	589	\$55,217	1.20	-408	-10.0%	-4.4%	-13.9%	60	6	0.9%
22	Utilities	1,219	\$55,776	1.86	179	3.2%	1.1%	-0.1%	110	0	0.0%
23	Construction	5,395	\$33,295	0.79	-351	-1.3%	-7.9%	1.8%	531	43	0.8%
31	Manufacturing	16,855	\$38,562	1.66	677	0.8%	-1.4%	2.6%	1,753	-138	-0.8%
42	Wholesale Trade	3,187	\$44,064	0.66	-58	-0.4%	-8.2%	1.0%	334	-8	-0.3%
44	Retail Trade	14,978	\$27,010	1.13	1,032	1.4%	0.5%	1.2%	2,003	25	0.2%
48	Transportation and Warehousing	8,371	\$43,422	1.62	2,051	5.8%	6.4%	2.8%	888	67	0.8%
51	Information	2,290	\$32,985	0.93	397	3.9%	-3.4%	-2.2%	223	-3	-0.1%
52	Finance and Insurance	2,922	\$46,750	0.59	38	0.3%	1.0%	1.7%	275	-2	-0.1%
53	Real Estate and Rental and Leasing	1,098	\$32,857	0.52	-11	-0.2%	-4.4%	1.5%	111	-3	-0.2%
54	Professional, Scientific, and Technical Services	2,812	\$37,744	0.35	-766	-4.7%	-6.1%	1.4%	242	22	0.8%
55	Management of Companies and Enterprises Administrative and Support and Waste Management and Remediation Services	321	\$68,796	0.18	68	4.9%	13.8%	0.3%	29	0	0.1%
56	Management and Remediation Services	8,378	\$26,989	1.05	1,604	4.3%	0.8%	2.9%	969	112	1.3%
61	Educational Services	11,102	\$32,853	1.09	-321	-0.6%	-0.3%	-0.6%	1,027	11	0.1%
62	Health Care and Social Assistance	19,551	\$41,979	1.11	-108	-0.1%	-4.8%	1.1%	1,840	241	1.2%
71	Arts, Entertainment, and Recreation	1,136	\$19,269	0.46	-51	-0.9%	-17.8%	2.4%	159	6	0.5%
72	Accommodation and Food Services	9,482	\$14,181	0.85	1,198	2.7%	2.2%	2.6%	1,534	40	0.4%
81	Other Services (except Public Administration)	3,893	\$22,174	0.71	-386	-1.9%	1.3%	-0.6%	442	14	0.4%
92	Public Administration	5,055	\$36,243	0.86	75	0.3%	0.5%	-0.4%	464	-11	-0.2%
99	Unclassified	37	\$26,571	0.12	28	31.3%	n/a	15.4%	4	0	0.3%
	Total - All Industries	123,557	\$33,501	1.00	4,917	0.8%	-2.0%	1.2%	13,491	420	0.3%

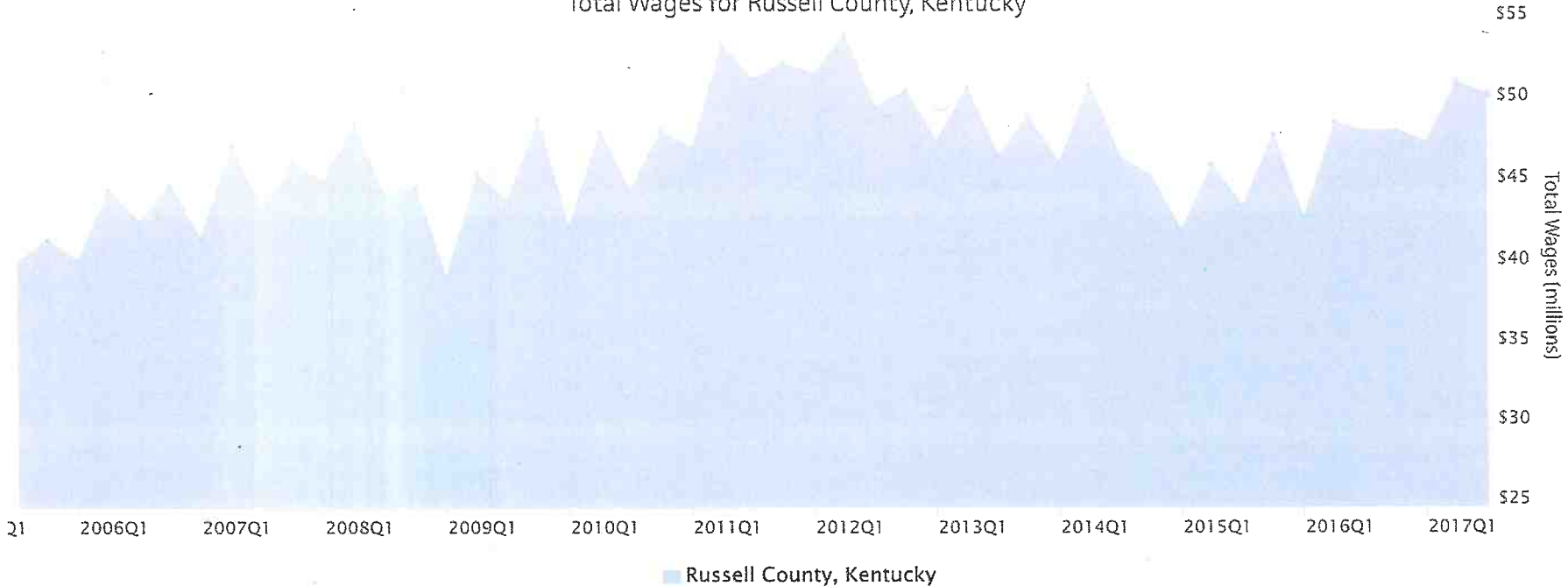
Source: JobsEQ®

Data as of 2017Q3

Note: Figures may not sum due to rounding.

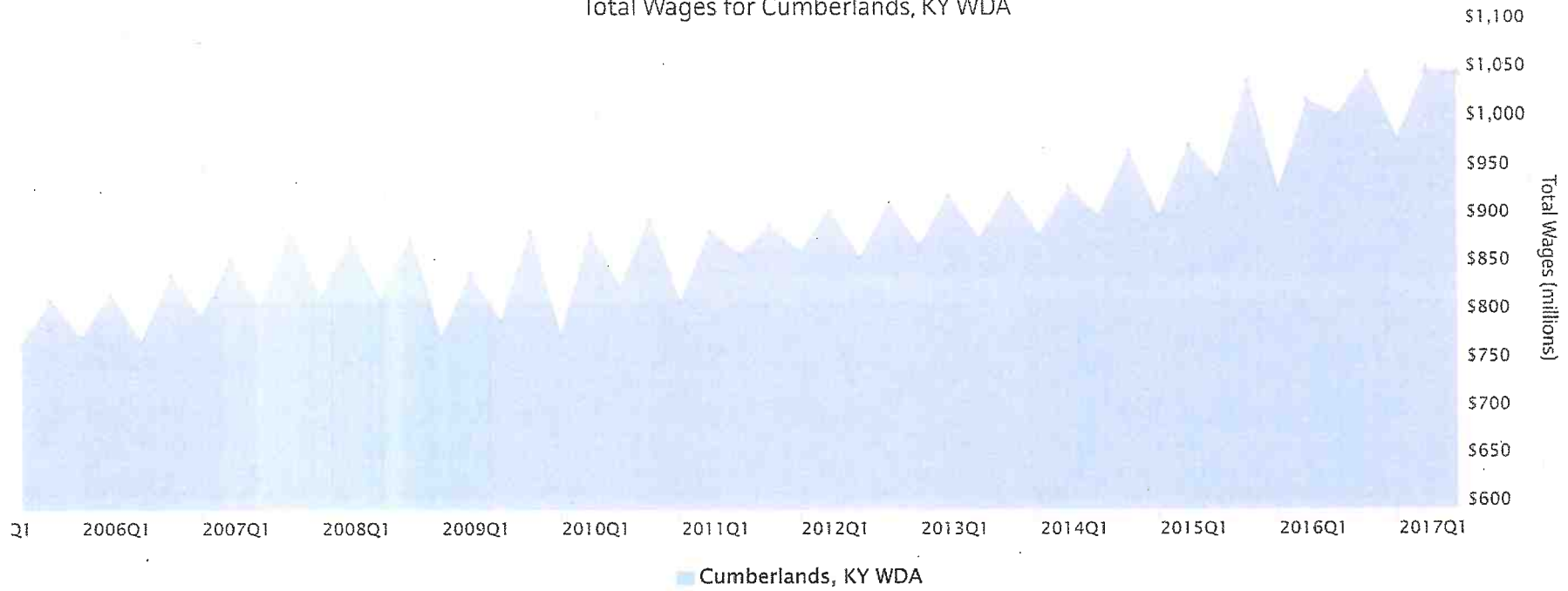
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Total Wages for Russell County, Kentucky



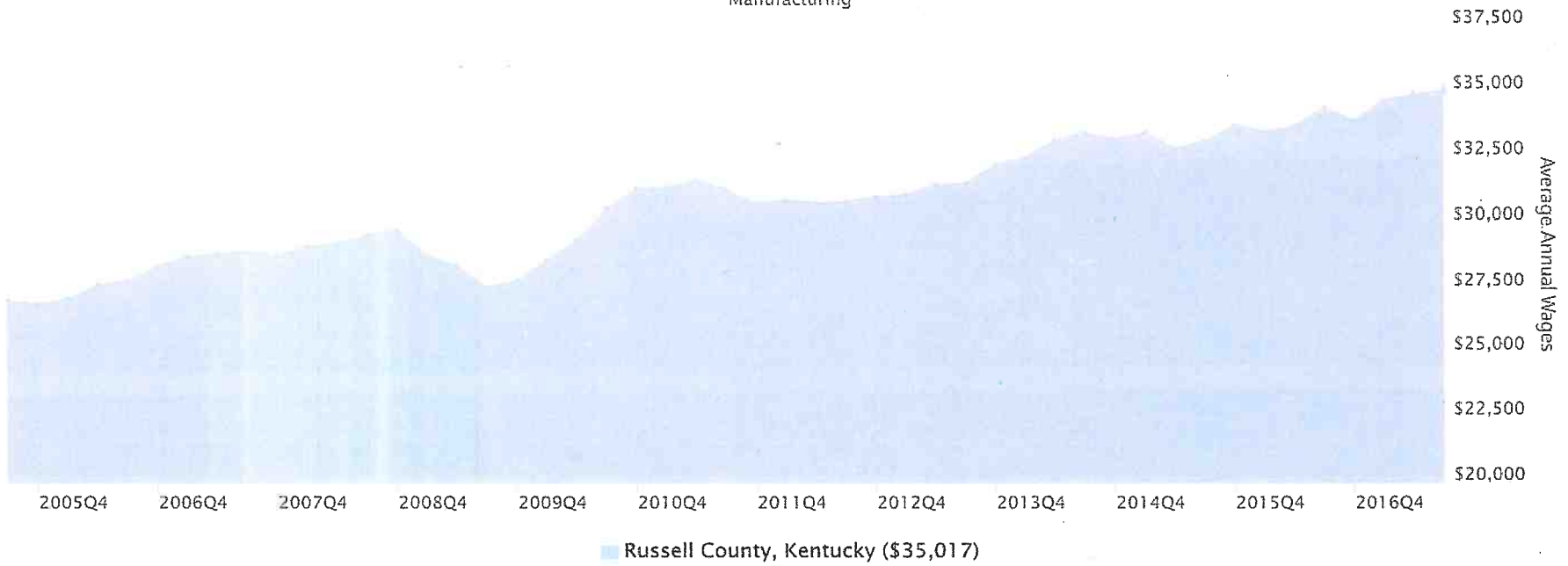
Source: JobsEQ. Data as of 2017Q3. The shaded areas represent national recessions.

Total Wages for Cumberlands, KY WDA



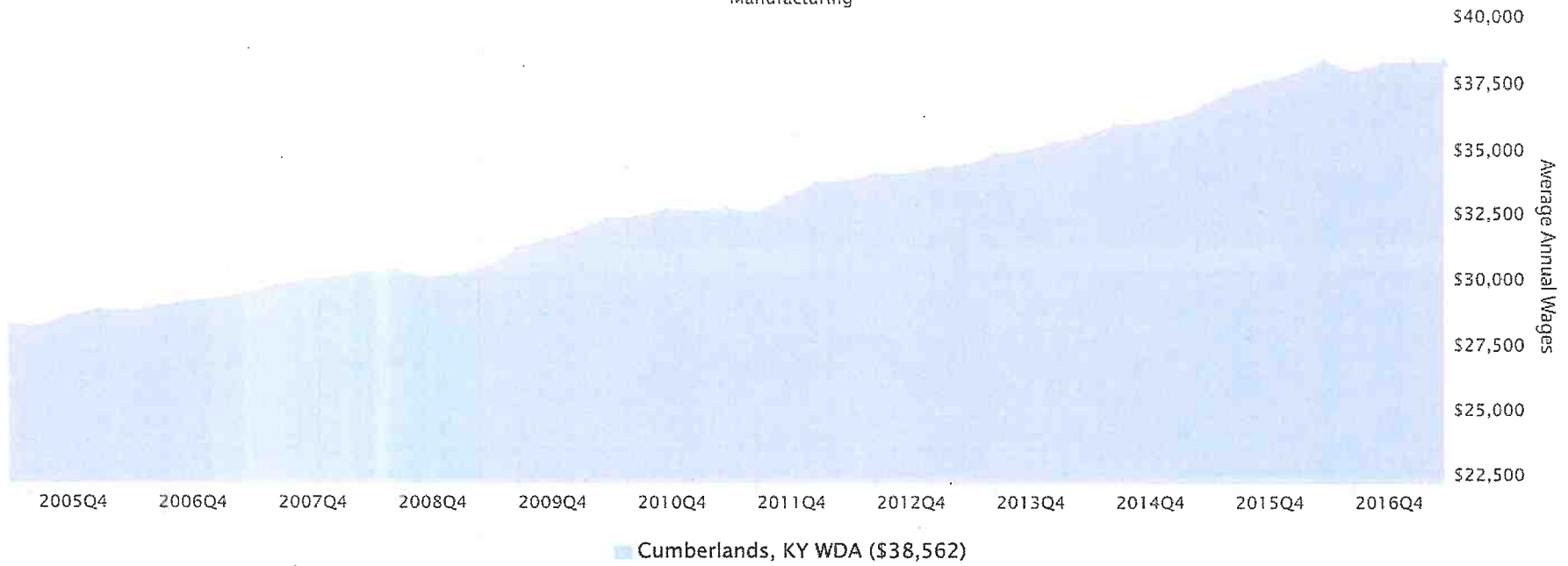
Source: JobsEQ+. Data as of 2017Q3. The shaded areas represent national recessions.

Average Annual Wages for Russell County, Kentucky Manufacturing



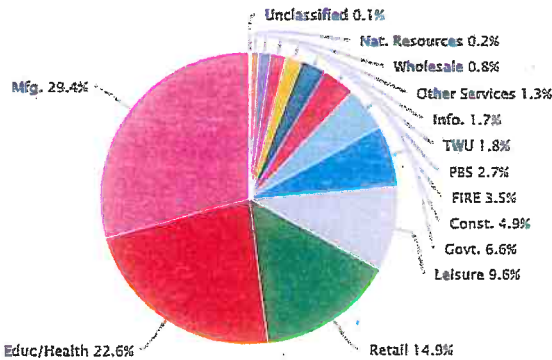
Source: JobsEQ+. Data as of 2017Q3. The shaded areas represent national recessions.

Average Annual Wages for Cumberlands, KY WDA Manufacturing



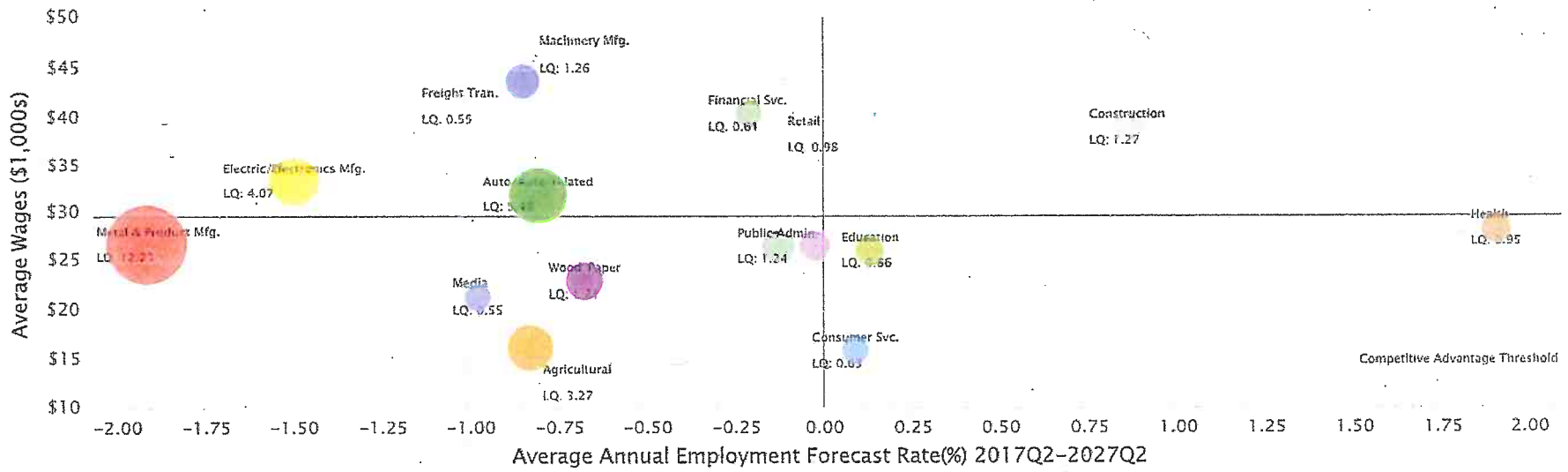
Source: JobsEQ®. Data as of 2017Q3. The shaded areas represent national recessions.

Labor Inventory, Covered Employment, for Russell County, Kentucky



Source: JobsEQ. Data as of 2017Q2

Industry Clusters for Russell County, Kentucky as of 2017Q2



- Agricultural
- Wood/Paper
- Electric/Electronics Mfg.
- Media
- Auto/Auto-related
- Machinery Mfg.
- Metal & Product Mfg.
- Retail
- Consumer Svc.
- Education
- Financial Svc.
- Construction
- Freight Tran.
- Public Admin.
- Health
- Competitive Advantage Threshold

Source: JobsEQ. Data as of 2017Q2

COMMUTING PATTERNS



Industrial Development Authority

WORKFORCE ANALYSIS

Commuting Patterns – Russell County

The commuting pattern of individuals commuting out of Russell County to work versus those that commute in to work shows that the number seems to have varied over the years with a large increase in both from 2000 to 2014.

According to the 2000 U. S. Census Bureau, 1,601 commuted out while 1,272 commuted in. According to the 2006-2010 U. S. Census Bureau American Community Survey, 1,322 commuted out while 1,973 commuted in. According to the 2014 U. S. Department of Commerce, Bureau of the Census, Journey-To-Work & Migration Statistics Branch 2,704 commuted out while 2,410 commuted in. The 2012-2016 American Community survey 5-Year Estimates showed 6,013 workers 16 years and over. Of those 6,013, 75.8% or 4,558 worked in their county of residence while 1,455 or 24.2% worked outside county of residence or outside state.

All of the above commuting patterns can be connected to staffing patterns at Fruit of the Loom. The 2000 numbers reflecting more commuted out than in came after the large layoffs in the late 1990's. The 2006-2010 numbers of more commuting in than out are reflective of the larger number of employees during those years. The 2014 number of more commuting out than in is in part due to the closing of the plant that year.

According to the 2000 Census the counties from which the most employees are commuting in were; Adair with 605, Casey with 226, Taylor with 156 and Pulaski with 103. For the same time period the most commuting out were to the counties of Pulaski with 470, Adair with 272, Casey with 234 and Taylor with 127.

According to the 2006-2010 Census Community Survey the counties from which the most employees are commuting in were; Adair with 1,095, Pulaski with 278, Casey with 272 and Taylor with 127 with Dr. Schneider and Bruss being major contributors. For the same time period the most commuting out were to the counties of Pulaski with 412, Adair with 218, Barren with 125 and Clinton with 120.

There was no information available to breakout the counties that were commuted to and from for the 2014 numbers. However it would seem logical that the same counties contained in the first two groups of numbers would again rank as the highest.

While there will always be a number of people that commute out for employment it is imperative that efforts be made to recruit business and industry to match the skills of those that commute out now. Continued efforts to locate and make available the skill levels for those who commute out of Russell County will be made.

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Residence County to Workplace County Flows for Kentucky
Sorted by Workplace State and County 2000

Res State	Res County	Res (C)MSA	Res PMSA	Residence State- County Name	Work State	Work County	Work (C)MSA	Work PMSA	Workplace State-County Name	Count
21	001	9999	9999	Adair Co. KY	021	207	9999	9999	Russell Co. KY	605
21	045	9999	9999	Casey Co. KY	021	207	9999	9999	Russell Co. KY	226
21	053	9999	9999	Clinton Co. KY	021	207	9999	9999	Russell Co. KY	28
21	057	9999	9999	Cumberland Co. KY	021	207	9999	9999	Russell Co. KY	5
21	063	9999	9999	Elliott Co. KY	021	207	9999	9999	Russell Co. KY	6
21	067	4280	9999	Fayette Co. KY	021	207	9999	9999	Russell Co. KY	8
21	087	9999	9999	Green Co. KY	021	207	9999	9999	Russell Co. KY	25
21	111	4520	9999	Jefferson Co. KY	021	207	9999	9999	Russell Co. KY	12
21	119	9999	9999	Knott Co. KY	021	207	9999	9999	Russell Co. KY	7
21	125	9999	9999	Laurel Co. KY	021	207	9999	9999	Russell Co. KY	9
21	137	9999	9999	Lincoln Co. KY	021	207	9999	9999	Russell Co. KY	27
21	151	4280	9999	Madison Co. KY	021	207	9999	9999	Russell Co. KY	14
21	155	9999	9999	Marion Co. KY	021	207	9999	9999	Russell Co. KY	18
21	169	9999	9999	Metcalfe Co. KY	021	207	9999	9999	Russell Co. KY	5
21	193	9999	9999	Perry Co. KY	021	207	9999	9999	Russell Co. KY	8
21	199	9999	9999	Pulaski Co. KY	021	207	9999	9999	Russell Co. KY	103
21	207	9999	9999	Russell Co. KY	021	207	9999	9999	Russell Co. KY	4,861
21	217	9999	9999	Taylor Co. KY	021	207	9999	9999	Russell Co. KY	156
21	231	9999	9999	Wayne Co. KY	021	207	9999	9999	Russell Co. KY	5
47	177	9999	9999	Warren Co. TN	021	207	9999	9999	Russell Co. KY	5
										6,133
										4,861
										1,272
										COMMUTING IN

Residence County to Workplace County Flows for Kentucky
 Sorted by Residence State and County 2000

Res State	Res County	Res (C)MSA	Res PMSA	Residence State- County Name	Work State	Work County	Work (C)MSA	Work PMSA	Workplace State-County Name	Count
21	207	9999	9999	Russell Co. KY	006	075	7362	7360	San Francisco Co. CA	12
21	207	9999	9999	Russell Co. KY	012	051	9999	9999	Hendry Co. FL	6
21	207	9999	9999	Russell Co. KY	012	095	5960	9999	Orange Co. FL	17
21	207	9999	9999	Russell Co. KY	013	047	1560	9999	Catoosa Co. GA	2
21	207	9999	9999	Russell Co. KY	018	005	9999	9999	Bartholomew Co. IN	13
21	207	9999	9999	Russell Co. KY	018	097	3480	9999	Marion Co. IN	16
21	207	9999	9999	Russell Co. KY	021	001	9999	9999	Adair Co. KY	272
21	207	9999	9999	Russell Co. KY	021	009	9999	9999	Barren Co. KY	52
21	207	9999	9999	Russell Co. KY	021	019	3400	9999	Boyd Co. KY	2
21	207	9999	9999	Russell Co. KY	021	021	9999	9999	Boyle Co. KY	32
21	207	9999	9999	Russell Co. KY	021	045	9999	9999	Casey Co. KY	234
21	207	9999	9999	Russell Co. KY	021	053	9999	9999	Clinton Co. KY	80
21	207	9999	9999	Russell Co. KY	021	057	9999	9999	Cumberland Co. KY	10
21	207	9999	9999	Russell Co. KY	021	067	4280	9999	Fayette Co. KY	46
21	207	9999	9999	Russell Co. KY	021	089	3400	9999	Greenup Co. KY	1
21	207	9999	9999	Russell Co. KY	021	107	9999	9999	Hopkins Co. KY	6
21	207	9999	9999	Russell Co. KY	021	111	4520	9999	Jefferson Co. KY	18
21	207	9999	9999	Russell Co. KY	021	113	4280	9999	Jessamine Co. KY	6
21	207	9999	9999	Russell Co. KY	021	121	9999	9999	Knox Co. KY	7
21	207	9999	9999	Russell Co. KY	021	125	9999	9999	Laurel Co. KY	53
21	207	9999	9999	Russell Co. KY	021	129	9999	9999	Lee Co. KY	5
21	207	9999	9999	Russell Co. KY	021	139	9999	9999	Livingston Co. KY	10
21	207	9999	9999	Russell Co. KY	021	147	9999	9999	McCreary Co. KY	9
21	207	9999	9999	Russell Co. KY	021	151	4280	9999	Madison Co. KY	8
21	207	9999	9999	Russell Co. KY	021	167	9999	9999	Mercer Co. KY	11
21	207	9999	9999	Russell Co. KY	021	169	9999	9999	Metcalfe Co. KY	34
21	207	9999	9999	Russell Co. KY	021	197	9999	9999	Powell Co. KY	2
21	207	9999	9999	Russell Co. KY	021	199	9999	9999	Pulaski Co. KY	470
21	207	9999	9999	Russell Co. KY	021	203	9999	9999	Rockcastle Co. KY	6
21	207	9999	9999	Russell Co. KY	021	207	9999	9999	Russell Co. KY	4,861
21	207	9999	9999	Russell Co. KY	021	209	4280	9999	Scott Co. KY	8
21	207	9999	9999	Russell Co. KY	021	217	9999	9999	Taylor Co. KY	103
21	207	9999	9999	Russell Co. KY	021	227	9999	9999	Warren Co. KY	15
21	207	9999	9999	Russell Co. KY	021	235	9999	9999	Whitley Co. KY	7
21	207	9999	9999	Russell Co. KY	039	057	2000	9999	Greene Co. OH	5
21	207	9999	9999	Russell Co. KY	039	061	1642	1640	Hamilton Co. OH	8
21	207	9999	9999	Russell Co. KY	047	093	3840	9999	Knox Co. TN	5
21	207	9999	9999	Russell Co. KY	047	189	5360	9999	Wilson Co. TN	7
21	207	9999	9999	Russell Co. KY	303	000			MEXICO	4
										6,463
										4,861
										1,601
										0
										COMMUTING OUT

Table 1. Residence County to Workplace County Flows for the United States and Puerto Rico Sorted by Residence Geography: 2006-2010

For more information on sampling and estimation methods, confidentiality protection, and sampling and nonsampling errors, see <www.census.gov/acs/www/Downloads/data_documentation/Accuracy/MultiyearACSAccuracyofData2010.pdf>.

Residence		Workplace		Number	MOE	Residence		Workplace	
State FIPS Code	County FIPS Code	State/U.S. Island Area/Foreign Country Code	County FIPS Code			State	County	State/U.S. Island Area/Foreign Country	County
21	001	021	207	1,095	244	Kentucky	Adair County	Kentucky	Russell County
21	043	021	207	12	18	Kentucky	Carter County	Kentucky	Russell County
21	045	021	207	272	122	Kentucky	Casey County	Kentucky	Russell County
21	053	021	207	23	31	Kentucky	Clinton County	Kentucky	Russell County
21	057	021	207	9	14	Kentucky	Cumberland County	Kentucky	Russell County
21	087	021	207	41	32	Kentucky	Green County	Kentucky	Russell County
21	123	021	207	20	32	Kentucky	Larue County	Kentucky	Russell County
21	125	021	207	13	23	Kentucky	Laurel County	Kentucky	Russell County
21	195	051	167	16	26	Kentucky	Pike County	Virginia	Russell County
21	199	021	207	278	119	Kentucky	Pulaski County	Kentucky	Russell County
21	199	051	167	8	17	Kentucky	Pulaski County	Virginia	Russell County
21	207	021	207	5,274	392	Kentucky	Russell County	Kentucky	Russell County
21	217	021	207	127	78	Kentucky	Taylor County	Kentucky	Russell County
21	227	021	207	12	19	Kentucky	Warren County	Kentucky	Russell County
21	231	021	207	47	50	Kentucky	Wayne County	Kentucky	Russell County
				7,247					
				5,274					
				1,973					

Commuting is

MOE--margin of error. Data are based on a sample and are subject to sampling variability. A margin of error is a measure of an estimate's variability. The larger the margin of error in relation to the size of the estimates, the less reliable the estimate. When added to and subtracted from the estimate, the margin of error forms the 90 percent confidence interval.
 Source: U.S. Census Bureau, 2006-2010 American Community Survey

Table 2. Residence County to Workplace County Flows for the United States and Puerto Rico Sorted by Workplace Geography: 2006-2010

For more information on sampling and estimation methods, confidentiality protection, and sampling and nonsampling errors, see www.census.gov/acs/www/Downloads/data_documentation/Accuracy/MultiyearACSAccuracyofData2010.pdf.

Residence		Workplace		Number	MOE	Residence		Workplace	
State FIPS Code	County FIPS Code	State/U.S. Island Area/Foreign Country Code	County FIPS Code			State	County	State/U.S. Island Area/Foreign Country	County
21	207	018	019	18	31	Kentucky	Russell County	Indiana	Clark County
21	207	021	001	218	87	Kentucky	Russell County	Kentucky	Adair County
21	207	021	009	125	107	Kentucky	Russell County	Kentucky	Barren County
21	207	021	021	68	53	Kentucky	Russell County	Kentucky	Boyle County
21	207	021	031	12	19	Kentucky	Russell County	Kentucky	Butler County
21	207	021	045	112	65	Kentucky	Russell County	Kentucky	Casey County
21	207	021	053	120	69	Kentucky	Russell County	Kentucky	Clinton County
21	207	021	067	12	21	Kentucky	Russell County	Kentucky	Fayette County
21	207	021	073	3	5	Kentucky	Russell County	Kentucky	Franklin County
21	207	021	079	27	42	Kentucky	Russell County	Kentucky	Garrard County
21	207	021	087	3	5	Kentucky	Russell County	Kentucky	Green County
21	207	021	111	7	12	Kentucky	Russell County	Kentucky	Jefferson County
21	207	021	137	4	6	Kentucky	Russell County	Kentucky	Lincoln County
21	207	021	151	47	45	Kentucky	Russell County	Kentucky	Madison County
21	207	021	177	10	18	Kentucky	Russell County	Kentucky	Muhlenberg County
21	207	021	199	412	154	Kentucky	Russell County	Kentucky	Pulaski County
21	207	021	203	20	34	Kentucky	Russell County	Kentucky	Rockcastle County
21	207	021	207	5,274	392	Kentucky	Russell County	Kentucky	Russell County
21	207	021	217	84	44	Kentucky	Russell County	Kentucky	Taylor County
21	207	021	235	12	20	Kentucky	Russell County	Kentucky	Whitley County
21	207	037	081	3	4	Kentucky	Russell County	North Carolina	Guilford County
21	207	039	165	5	9	Kentucky	Russell County	Ohio	Warren County
				6,596					
				5,274					
				1,322					

commuting out

MOE--margin of error. Data are based on a sample and are subject to sampling variability. A margin of error is a measure of an estimate's variability. The larger the margin of error in relation to the size of the estimates, the less reliable the estimate. When added to and subtracted from the estimate, the margin of error forms the 90 percent confidence interval.

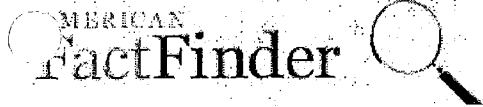
Source: U.S. Census Bureau, 2006-2010 American Community Survey

Commuting Patterns

Residents of Russell County	2014	Percent
Working and Residing in County	2,854	51.3
Commuting Out of County	2,704	48.7
Total Residents	5,558	100.0
Employees in		
Working and Residing in County	2,854	54.2
Commuting Into County	2,410	45.8
Total Employees	5,264	100.0

Source: US Department of Commerce, Bureau of the Census, Journey-To-Work & Migration Statistics Branch.

Note: Data of Kentucky and its border states only.



S0801

COMMUTING CHARACTERISTICS BY SEX

2012-2016 American Community Survey 5-Year Estimates

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Data and Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

Tell us what you think. Provide feedback to help make American Community Survey data more useful for you.

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities and towns and estimates of housing units for states and counties.

Subject	Russell County, Kentucky				
	Total		Male		Female
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate
W, 16 years and over	6,013	+/-355	3,042	+/-241	2,971
MEANS OF TRANSPORTATION TO WORK					
Car, truck, or van	93.1%	+/-2.1	92.3%	+/-3.4	93.9%
Drove alone	83.8%	+/-2.9	82.9%	+/-3.9	84.8%
Carpooled	9.3%	+/-2.2	9.4%	+/-2.7	9.1%
In 2-person carpool	6.9%	+/-1.7	7.2%	+/-2.1	6.6%
In 3-person carpool	1.4%	+/-0.8	1.4%	+/-1.3	1.4%
In 4-or-more person carpool	0.9%	+/-1.3	0.8%	+/-1.3	1.1%
Workers per car, truck, or van	1.06	+/-0.02	1.06	+/-0.02	1.06
Public transportation (excluding taxicab)	0.3%	+/-0.4	0.0%	+/-1.0	0.7%
Walked	1.7%	+/-1.2	2.7%	+/-2.3	0.7%
Bicycle	0.0%	+/-0.5	0.0%	+/-1.0	0.0%
Taxicab, motorcycle, or other means	1.9%	+/-1.3	3.0%	+/-2.4	0.8%
Worked at home	2.9%	+/-1.3	2.0%	+/-1.4	3.9%
PLACE OF WORK					
Worked in state of residence	98.9%	+/-0.8	97.8%	+/-1.5	100.0%
Worked in county of residence	75.8%	+/-3.4	77.3%	+/-4.0	74.4%
Worked outside county of residence	23.1%	+/-3.2	20.5%	+/-4.0	25.6%
Worked outside state of residence	1.1%	+/-0.8	2.2%	+/-1.5	0.0%
Living in a place	23.0%	+/-2.5	23.5%	+/-3.4	22.4%
Worked in place of residence	9.4%	+/-1.8	9.7%	+/-2.2	9.2%
Worked outside place of residence	13.6%	+/-2.2	13.9%	+/-3.0	13.2%
Not living in a place	77.0%	+/-2.5	76.5%	+/-3.4	77.6%
Living in 12 selected states	0.0%	+/-0.5	0.0%	+/-1.0	0.0%
Worked in minor civil division of residence	0.0%	+/-0.5	0.0%	+/-1.0	0.0%
Worked outside minor civil division of residence	0.0%	+/-0.5	0.0%	+/-1.0	0.0%
Not living in 12 selected states	100.0%	+/-0.5	100.0%	+/-1.0	100.0%

Subject	Russell County, Kentucky				
	Total		Male		Female
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate
Workers 16 years and over who did not work at home	5,837	+/-345	2,981	+/-223	2,856
TIME LEAVING HOME TO GO TO WORK					
12:00 a.m. to 4:59 a.m.	9.7%	+/-2.1	11.9%	+/-3.6	7.4%
5:00 a.m. to 5:29 a.m.	3.3%	+/-2.0	3.7%	+/-2.3	2.8%
5:30 a.m. to 5:59 a.m.	7.3%	+/-2.3	7.5%	+/-2.8	7.2%
6:00 a.m. to 6:29 a.m.	14.6%	+/-3.0	15.1%	+/-3.9	14.1%
6:30 a.m. to 6:59 a.m.	15.1%	+/-2.5	13.5%	+/-3.5	16.8%
7:00 a.m. to 7:29 a.m.	14.2%	+/-3.2	15.9%	+/-4.6	12.5%
7:30 a.m. to 7:59 a.m.	11.2%	+/-2.8	7.3%	+/-3.3	15.1%
8:00 a.m. to 8:29 a.m.	3.1%	+/-1.1	2.6%	+/-1.5	3.5%
8:30 a.m. to 8:59 a.m.	1.3%	+/-0.7	1.3%	+/-1.0	1.3%
9:00 a.m. to 11:59 p.m.	20.2%	+/-3.4	21.1%	+/-4.5	19.3%
TRAVEL TIME TO WORK					
Less than 10 minutes	25.3%	+/-3.6	25.7%	+/-4.3	24.9%
10 to 14 minutes	20.0%	+/-3.2	20.9%	+/-4.2	19.0%
15 to 19 minutes	15.1%	+/-3.3	14.5%	+/-3.9	15.7%
20 to 24 minutes	10.2%	+/-2.6	8.4%	+/-2.9	12.1%
25 to 29 minutes	3.8%	+/-1.8	1.7%	+/-1.2	6.0%
30 to 34 minutes	11.0%	+/-2.7	11.4%	+/-3.5	10.5%
35 to 44 minutes	4.3%	+/-1.3	4.4%	+/-2.0	4.2%
45 to 59 minutes	5.3%	+/-1.8	5.3%	+/-2.5	5.4%
60 or more minutes	5.0%	+/-1.6	7.6%	+/-2.5	2.2%
Mean travel time to work (minutes)	20.3	+/-1.5	21.5	+/-2.1	19.0
VEHICLES AVAILABLE					
Workers 16 years and over in households	6,013	+/-355	3,042	+/-241	2,971
No vehicle available	2.4%	+/-1.5	2.9%	+/-2.2	1.9%
1 vehicle available	15.8%	+/-3.2	13.5%	+/-4.0	18.1%
2 vehicles available	39.1%	+/-4.5	38.9%	+/-5.9	39.2%
3 or more vehicles available	42.7%	+/-5.0	44.6%	+/-5.7	40.8%
PERCENT ALLOCATED					
Means of transportation to work	8.7%	(X)	(X)	(X)	(X)
Private vehicle occupancy	10.4%	(X)	(X)	(X)	(X)
Place of work	12.5%	(X)	(X)	(X)	(X)
Time leaving home to go to work	19.3%	(X)	(X)	(X)	(X)
Travel time to work	17.6%	(X)	(X)	(X)	(X)
Vehicles available	0.7%	(X)	(X)	(X)	(X)

Subject	Russell County, Kentucky
	Female
	Margin of Error
Workers 16 years and over	+/-219
MEANS OF TRANSPORTATION TO WORK	
Car, truck, or van	+/-2.6
Drove alone	+/-3.9
Carpooled	+/-2.9
In 2-person carpool	+/-2.5
In 3-person carpool	+/-1.0
In 4-or-more person carpool	+/-1.4
Workers per car, truck, or van	+/-0.02
Public transportation (excluding taxicab)	+/-0.8
Walked	+/-0.9
Bicycle	+/-1.0
Taxicab, motorcycle, or other means	+/-0.9
Worked at home	+/-2.3
PLACE OF WORK	
Worked in state of residence	+/-1.0
Worked in county of residence	+/-4.9
Worked outside county of residence	+/-4.9
Worked outside state of residence	+/-1.0
Living in a place	+/-3.6
Worked in place of residence	+/-2.5
Worked outside place of residence	+/-3.3
Not living in a place	+/-3.6
Living in 12 selected states	+/-1.0
Worked in minor civil division of residence	+/-1.0
Worked outside minor civil division of residence	+/-1.0
Not living in 12 selected states	+/-1.0
Workers 16 years and over who did not work at home	+/-222
TIME LEAVING HOME TO GO TO WORK	
12:00 a.m. to 4:59 a.m.	+/-2.9
5:00 a.m. to 5:29 a.m.	+/-2.1
5:30 a.m. to 5:59 a.m.	+/-3.8
6:00 a.m. to 6:29 a.m.	+/-3.8
6:30 a.m. to 6:59 a.m.	+/-3.8
7:00 a.m. to 7:29 a.m.	+/-3.3
7:30 a.m. to 7:59 a.m.	+/-4.5
8:00 a.m. to 8:29 a.m.	+/-1.9
8:30 a.m. to 8:59 a.m.	+/-1.0
9:00 a.m. to 11:59 p.m.	+/-4.6
TRAVEL TIME TO WORK	
Less than 10 minutes	+/-5.4
10 to 14 minutes	+/-4.0
15 to 19 minutes	+/-3.8
20 to 24 minutes	+/-3.7
25 to 29 minutes	+/-3.0
30 to 34 minutes	+/-3.5
35 to 44 minutes	+/-1.8
45 to 59 minutes	+/-2.8
60 or more minutes	+/-1.4
Mean travel time to work (minutes)	+/-2.0
VEHICLES AVAILABLE	

Subject	Russell County, Kentucky
	Female
	Margin of Error
Persons 16 years and over in households	+/-219
No vehicle available	+/-1.7
1 vehicle available	+/-4.4
2 vehicles available	+/-4.8
3 or more vehicles available	+/-5.7
PERCENT ALLOCATED	
Means of transportation to work	(X)
Private vehicle occupancy	(X)
Place of work	(X)
Time leaving home to go to work	(X)
Travel time to work	(X)
Vehicles available	(X)

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see Accuracy of the Data). The effect of nonsampling error is not represented in these tables.

The 12 selected states are Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin.

Workers include members of the Armed Forces and civilians who were at work last week.

When information is missing or inconsistent, the Census Bureau logically assigns an acceptable value using the response to a related question or questions. If a logical assignment is not possible, data are filled using a statistical process called allocation, which uses a similar individual or household to provide a donor value. The "Allocated" section is the number of respondents who received an allocated value for a particular subject.

While the 2012-2016 American Community Survey (ACS) data generally reflect the February 2013 Office of Management and Budget (OMB) definitions of metropolitan and micropolitan statistical areas; in certain instances the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB definitions due to differences in the effective dates of the geographic entities.

Estimates of urban and rural population, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates

Explanation of Symbols:

1. An "***" entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.
2. An "!" entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution.
3. An "!" following a median estimate means the median falls in the lowest interval of an open-ended distribution.
4. An "+" following a median estimate means the median falls in the upper interval of an open-ended distribution.
5. An "****" entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.
6. An "*****" entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.
7. An "N" entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.
8. An "(X)" means that the estimate is not applicable or not available.

WORKFORCE CHARACTERISTICS



Industrial Development Authority

WORKFORCE ANALYSIS

Workforce Characteristics – Russell County

Important information from the characteristics of the workforce in Russell County include for four quarters ending the 1st quarter of 2016 show a total of 5,407 persons employed. All industries have a turnover rate of 9.2%. The highest age group of employment is between the ages of 45-54, second highest is 35-44 and third highest is 25-34. The highest number of employees, 1,689 have a high school diploma or equivalent, 1,490 have some college or an Associate's degree and 901 have a Bachelor's degree or higher. There are 2,782 females employed compared to 2,625 males. Annual Earnings for females in stable jobs are \$6,580 less than males and starting Annual Earnings are \$5,281 less. 5,233 of the 5,407 persons employed are White alone with Black or African American persons employed numbering 85. 5,319 of the 5,407 are non-Hispanic with the remaining 88 being Hispanic or Latino.

Workforce Characteristics in Russell County, Kentucky
Average per Quarter

NAICS	Industry	Employment	New Hires	Separations	Turnover	Average Annual Earnings, Stable Jobs	Average Annual Earnings, New Stable Jobs
	Total - All Industries ¹	5,407	865	989	9.2%	\$31,271	\$20,437

Source: JobsEQ®

Data are for the four quarters ending 2016Q1

Note: Figures may not sum due to rounding. Demographic details for NAICS 4851, 4911, 485 and 491 may be severely distorted due to limited source data availability.

1. Total industry figures don't reflect employment in unclassified industries (NAICS 9999).

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Workforce Characteristics in Cumberlands, KY WDA
Average per Quarter

NAICS	Industry	Employment ²	New Hires	Separations	Turnover	Average Annual Earnings, Stable Jobs	Average Annual Earnings, New Stable Jobs
	Total - All Industries ¹	106,727	17,857	20,290	9.4%	\$34,878	\$22,569

Source: JobsEQ®

Data are for the four quarters ending 2016Q1

Note: Figures may not sum due to rounding. Demographic details for NAICS 4851, 4911, 485 and 491 may be severely distorted due to limited source data availability.

1. Total industry figures don't reflect employment in unclassified industries (NAICS 9999).

2. Covered employment only. Employment for aggregate regions are summed from county-level data and, due to data availability, may not match employment as shown elsewhere in JobsEQ.

Exported on: Tuesday, January 9, 2018 1:29 PM

Workforce Characteristics in Russell County, Kentucky

Average per Quarter

NAICS	Industry	Age	Employment	New Hires	Separations	Turnover	Average Annual Earnings, Stable Jobs	Average Annual Earnings, New Stable Jobs
	Total - All Industries ¹	14-99	5,407	865	989	9.2%	\$31,271	\$20,437
	Total - All Industries ¹	25-34	1,014	209	231	11.6%	\$28,210	\$20,788
	Total - All Industries ¹	35-44	1,144	141	163	7.7%	\$35,479	\$23,527
	Total - All Industries ¹	55-64	912	60	87	5.6%	\$35,155	\$21,904
	Total - All Industries ¹	45-54	1,240	106	126	5.9%	\$36,664	\$27,012
	Total - All Industries ¹	65-99	319	17	40	7.4%	\$23,164	\$14,456
	Total - All Industries ¹	22-24	325	101	110	17.2%	\$20,676	\$19,470
	Total - All Industries ¹	19-21	292	115	128	20.9%	\$15,464	\$15,825
	Total - All Industries ¹	14-18	160	117	104	32.6%	\$7,933	\$8,028

Source: JobsEQ[®]

Data are for the four quarters ending 2016Q1

Note: Figures may not sum due to rounding. Demographic details for NAICS 4851, 4911, 485 and 491 may be severely distorted due to limited source data availability.

1. Total industry figures don't reflect employment in unclassified industries (NAICS 9999).

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Workforce Characteristics in Russell County, Kentucky
Average per Quarter

NAICS	Industry	Education	Employment	New Hires	Separations	Turnover	Average Annual Earnings, Stable Jobs	Average Annual Earnings, New Stable Jobs
	Total - All Industries ¹	All Education Groups Together	5,407	865	989	9.2%	\$31,271	\$20,437
	Total - All Industries ¹	Educational attainment not available (workers aged 24 or younger)	778	333	342	21.2%	\$16,413	\$14,515
	Total - All Industries ¹	Bachelor's degree or advanced degree	901	86	105	6.2%	\$45,326	\$29,386
	Total - All Industries ¹	Some college or Associate's degree	1,490	166	202	7.5%	\$33,367	\$22,513
	Total - All Industries ¹	High school or equivalent, no college	1,689	193	240	7.8%	\$29,324	\$20,973
	Total - All Industries ¹	Less than high school	549	87	101	9.3%	\$26,345	\$19,816

Source: JobsEQ®

Data are for the four quarters ending 2016Q1

Note: Figures may not sum due to rounding. Demographic details for NAICS 4851, 4911, 485 and 491 may be severely distorted due to limited source data availability.

1. Total industry figures don't reflect employment in unclassified industries (NAICS 9999).

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Workforce Characteristics in Russell County, Kentucky
Average per Quarter

NAICS	Industry	Gender	Employment	New Hires	Separations	Turnover	Average Annual Earnings, Stable Jobs	Average Annual Earnings, New Stable Jobs
		Male and						
	Total - All Industries ¹	Female	5,407	865	989	9.2%	\$31,271	\$20,437
	Total - All Industries ¹	Female	2,782	435	480	8.7%	\$28,061	\$17,766
	Total - All Industries ¹	Male	2,625	430	509	9.8%	\$34,641	\$23,047

Source: JobsEQ®

Data are for the four quarters ending 2016Q1

Note: Figures may not sum due to rounding. Demographic details for NAICS 4851, 4911, 485 and 491 may be severely distorted due to limited source data availability.

1. Total industry figures don't reflect employment in unclassified industries (NAICS 9999).

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Workforce Characteristics in Russell County, Kentucky
Average per Quarter

NAICS	Industry	Race	Employment	New Hires	Separations	Turnover	Average Annual Earnings, Stable Jobs	Average Annual Earnings, New Stable Jobs
	Total - All Industries ¹	All Races Together	5,407	865	989	9.2%	\$31,271	\$20,437
	Total - All Industries ¹	Two or More Race Groups	38	12	13	15.6%	\$23,950	\$19,333
	Total - All Industries ¹	Native Hawaiian or Other Pacific Islander Alone	3	0	0	0.0%	\$32,609	n/a
	Total - All Industries ¹	Asian Alone	32	5	7	0.0%	\$20,953	\$15,742
	Total - All Industries ¹	American Indian or Alaska Native Alone	15	5	4	0.0%	\$20,376	\$14,131
	Total - All Industries ¹	Black or African American Alone	85	27	27	15.4%	\$21,391	\$15,713
	Total - All Industries ¹	White Alone	5,233	816	937	9.1%	\$31,563	\$20,579

Source: JobsEQ®

Data are for the four quarters ending 2016Q1

Note: Figures may not sum due to rounding. Demographic details for NAICS 4851, 4911, 485 and 491 may be severely distorted due to limited source data availability.

1. Total industry figures don't reflect employment in unclassified industries (NAICS 9999).

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Workforce Characteristics in Russell County, Kentucky
Average per Quarter

NAICS	Industry	Ethnicity	Employment	New Hires	Separations	Turnover	Average Annual Earnings, Stable Jobs	Average Annual Earnings, New Stable Jobs
	Total - All Industries ¹	All (Any Ethnicity)	5,407	865	989	9.2%	\$31,271	\$20,437
	Total - All Industries ¹	Not Hispanic or Latino	5,327	844	967	9.1%	\$31,347	\$20,504
	Total - All Industries ¹	Hispanic or Latino	80	21	22	13.7%	\$26,275	\$17,619

Source: JobsEQ®

Data are for the four quarters ending 2016Q1

Note: Figures may not sum due to rounding. Demographic details for NAICS 4851, 4911, 485 and 491 may be severely distorted due to limited source data availability.

1. Total industry figures don't reflect employment in unclassified industries (NAICS 9999).

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“WHAT IF”



Industrial Development Authority

WORKFORCE

ANALYSIS

"What-if" – Russell County

Attached you will find an example of what the availability of potential employees if Russell County were recruiting a manufacturing company that would employ 100. The "what if" list several occupations that may be found within a manufacturing facility. The "what if" report can be run for other potential employers other than manufacturing as well. This report will show employer demand, number employed under a specific job, number unemployed under the same specific job, average wages and potential candidate/job opening ratio.

What-If Report for Russell County, Kentucky, NAICS 31 - Manufacturing

SOC	Title	New Employer Demand	Empl (Place of Residence) ¹	Unempl ¹	Regional Avg Wage ²	National Avg Wage ²	Empl Extended	Unempl Extended	Potential Candidate / Opening Ratio
51-2092	Team Assemblers	7	222	25	\$27,900	\$32,600	93	9	35
51-1011	First-Line Supervisors of Production and Operating Workers	4	68	3	\$43,300	\$61,400	41	1	18
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	3	49	4	\$29,500	\$40,300	105	11	18
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	3	90	12	\$23,700	\$28,700	0	0	34
51-4041	Machinists	3	59	4	\$34,300	\$43,200	40	3	21
51-2022	Electrical and Electronic Equipment Assemblers	2	42	4	\$26,200	\$33,700	0	0	23
11-1021	General and Operations Managers	2	72	2	\$72,100	\$122,100	436	7	37
51-9198	Helpers--Production Workers	2	37	5	\$25,000	\$26,900	152	14	21
17-2112	Industrial Engineers	2	13	0	\$62,200	\$88,500	31	1	7
49-9041	Industrial Machinery Mechanics	2	33	1	\$37,600	\$51,900	130	7	17
49-9071	Maintenance and Repair Workers, General	2	63	3	\$30,000	\$39,400	24	1	33
51-9111	Packaging and Filling Machine Operators and Tenders	2	12	2	\$28,900	\$30,900	223	26	7
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	2	43	2	\$45,700	\$68,400	5	0	23
43-5071	Shipping, Receiving, and Traffic Clerks	2	24	2	\$30,200	\$33,200	194	15	13
51-4121	Welders, Cutters, Solderers, and Brazers	2	72	7	\$28,800	\$42,400	505	50	39
13-2011	Accountants and Auditors	1	24	1	\$55,900	\$76,700	13	1	25
11-9041	Architectural and Engineering Managers	1	5	0	\$87,900	\$143,900	36	1	6
51-2099	Assemblers and Fabricators, All Other	1	27	4	\$23,000	\$31,000	0	0	31
51-3011	Bakers	1	4	0	\$26,900	\$27,100	194	20	5
43-3031	Bookkeeping, Accounting, and Auditing Clerks	1	62	2	\$32,100	\$40,200	54	4	64
13-1199	Business Operations Specialists, All Other	1	11	1	\$53,400	\$74,900	26	1	12
51-7011	Cabinetmakers and Bench Carpenters	1	5	0	\$24,900	\$34,800	5	0	5
51-9011	Chemical Equipment Operators and Tenders	1	1	0	\$40,100	\$50,300	4	0	1
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	1	10	1	\$21,800	\$34,500	76	6	10
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	1	18	1	\$37,900	\$39,600	87	6	19
43-4051	Customer Service Representatives	1	70	5	\$23,300	\$35,200	118	9	75

51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	1	2	0	\$33,900	\$34,000	35	3	2
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	1	42	4	\$27,500	\$34,200	587	55	46
17-3023	Electrical and Electronic Engineering Technicians	1	6	0	\$46,500	\$63,000	40	2	6
17-2071	Electrical Engineers	1	6	0	\$64,200	\$98,600	41	1	6
47-2111	Electricians	1	19	1	\$39,200	\$56,600	50	2	20
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	1	5	0	\$24,200	\$35,300	1	0	5
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	1	5	0	\$30,100	\$34,400	125	10	5
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	1	18	1	\$47,600	\$66,700	102	4	19
43-1011	First-Line Supervisors of Office and Administrative Support Workers	1	43	2	\$41,000	\$57,900	65	2	45
51-3092	Food Batchmakers	1	2	0	\$35,300	\$30,100	55	7	2
27-1024	Graphic Designers	1	3	0	\$26,700	\$52,300	0	0	3
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1	5	0	\$30,600	\$34,900	12	1	5
53-3032	Heavy and Tractor-Trailer Truck Drivers	1	78	4	\$35,500	\$43,600	47	4	83
13-1071	Human Resources Specialists	1	12	1	\$46,700	\$64,900	80	3	13
17-3026	Industrial Engineering Technicians	1	4	0	\$44,200	\$56,900	2	0	4
11-3051	Industrial Production Managers	1	17	1	\$72,100	\$107,100	417	7	18
53-7051	Industrial Truck and Tractor Operators	1	28	2	\$28,800	\$34,300	154	18	30
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	1	77	6	\$22,600	\$27,000	239	23	83
53-3033	Light Truck or Delivery Services Drivers	1	32	2	\$27,400	\$34,800	76	6	34
53-7063	Machine Feeders and Offbearers	1	6	1	\$24,900	\$30,500	24	2	7
49-9043	Maintenance Workers, Machinery	1	8	0	\$36,300	\$46,000	0	0	8
11-9199	Managers, All Other	1	27	0	\$65,500	\$112,200	59	3	28
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	1	5	0	\$21,200	\$25,500	104	9	5
17-2141	Mechanical Engineers	1	12	0	\$64,600	\$89,800	27	1	13
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1	5	0	\$34,300	\$37,600	15	1	5
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	1	13	1	\$32,700	\$32,700	25	3	14

51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1	30	2	\$38,400	\$36,200	60	4	31
43-9061	Office Clerks, General	1	69	5	\$24,200	\$33,000	182	11	74
53-7064	Packers and Packagers, Hand	1	25	4	\$23,200	\$24,400	109	10	29
51-9196	Paper Goods Machine Setters, Operators, and Tenders	1	1	0	\$28,900	\$38,600	40	2	1
51-5113	Print Binding and Finishing Workers	1	1	0	\$30,300	\$33,300	653	67	1
51-5112	Printing Press Operators	1	4	0	\$25,000	\$37,500	16	2	4
51-9199	Production Workers, All Other	1	36	4	\$23,500	\$32,400	0	0	40
43-5061	Production, Planning, and Expediting Clerks	1	13	0	\$35,800	\$49,000	27	2	13
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	1	13	1	\$46,500	\$67,400	23	1	13
41-2031	Retail Salespersons	1	170	11	\$23,500	\$27,200	40	3	182
11-2022	Sales Managers	1	7	0	\$102,400	\$135,100	39	1	8
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	1	5	0	\$46,200	\$92,900	58	2	6
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	1	8	1	\$22,900	\$30,000	13	1	9
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	1	79	4	\$25,500	\$36,100	102	9	83
51-6031	Sewing Machine Operators	1	10	1	\$21,600	\$25,800	75	7	11
51-3023	Slaughterers and Meat Packers	1	3	0	\$26,000	\$27,000	51	7	3
15-1132	Software Developers, Applications	1	7	0	\$74,800	\$104,300	30	1	7
15-1133	Software Developers, Systems Software	1	5	0	\$80,200	\$110,600	33	1	5
43-5081	Stock Clerks and Order Fillers	1	73	6	\$22,500	\$26,700	654	68	80
51-2041	Structural Metal Fabricators and Fitters	1	13	1	\$29,400	\$40,000	3	0	14
51-4111	Tool and Die Makers	1	13	1	\$37,900	\$51,600	71	5	13
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	1	21	2	\$31,200	\$38,400	85	6	23
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	1	12	1	\$24,800	\$29,800	8	1	13
	Total Annual Payroll				\$3,680,000	\$4,942,000			

[Source: JobsEQ®](#)

1. Occupation employment and unemployment are place-of-residence data—that is, referring to workers who reside in the named locality.

2. Occupation wages are as of 2016 and represent the average for all Covered Employment

Data as of 2017Q3 unless noted otherwise

Note: Figures may not sum due to rounding.

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Column Glossary

Occ Code	The Standard Occupational Classification code.
Title	The name of the Standard Occupational Classification code.
New Employer Demand	Estimated number of employees needed in the specified occupation by the incoming firm.
Empl (Place of Residence) ¹	Estimated number of workers currently employed in the occupation in the region by residence.
Unempl ¹	Estimated number of workers unemployed in the occupation in the region by residence.
Regional Avg Wage ²	National average wage adjusted by the selected region's cost of living. Regional workers meeting the following three criteria: <ul style="list-style-type: none">•Are currently employed.•Have similar skills to the specified occupation (though may need additional training and/or certification to meet the specified occupation's requirements).•Current wages are no more than 10% higher than average wages of the specified occupation.
Empl Extended	Same as Employment Extended except these workers are currently unemployed.
Unempl Extended	Same as Employment Extended except these workers are currently unemployed.
Potential Candidate / Opening Ratio	The ratio of potential candidates (employed plus unemployed) to the new employer demand. The coloring reflects varying ratio levels, red-orange-yellow-green, with the former representing short labor supplies and the lattermost reflecting generally ample supply. (The threshold for an "ample" supply varies industry to industry and occupation to occupation, but a general threshold of "50" is used in JobsEQ to denote the green level of generally ample supply.)

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Education Breakdown for What-If Analysis
Russell County, Kentucky, NAICS 31 - Manufacturing

Less than high school diploma	16.5
High school diploma or equivalent	46.1
Some college, no degree	14.6
Associate's degree	8.9
Bachelor's degree	9.4
Master's degree	3.5
Doctoral or professional degree	1.0

[Source: JobsEQ®](#)

Data as of 2017Q3

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What-If Report for Cumberlands, KY WDA, NAICS 31 - Manufacturing

SOC	Title	New Employer Demand	Empl (Place of Residence) ¹	Unempl ¹	Regional Avg Wage ²	National Avg Wage ²	Empl Extended	Unempl Extended	Potential Candidate / Opening Ratio
51-2092	Team Assemblers	7	2,275	232	\$30,000	\$32,600	823	73	358
51-1011	First-Line Supervisors of Production and Operating Workers	4	817	32	\$46,300	\$61,400	831	24	212
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	3	583	47	\$31,600	\$40,300	1,812	191	210
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	3	2,969	361	\$25,700	\$28,700	3	1	1,110
51-4041	Machinists	3	439	26	\$36,400	\$43,200	527	35	155
51-2022	Electrical and Electronic Equipment Assemblers	2	189	18	\$27,900	\$33,700	0	0	103
11-1021	General and Operations Managers	2	1,389	41	\$77,300	\$122,100	7,658	132	715
51-9198	Helpers--Production Workers	2	593	75	\$26,800	\$26,900	3,474	294	334
17-2112	Industrial Engineers	2	120	4	\$66,600	\$88,500	357	11	62
49-9041	Industrial Machinery Mechanics	2	449	17	\$40,300	\$51,900	2,307	108	233
49-9071	Maintenance and Repair Workers, General	2	1,141	51	\$32,200	\$39,400	549	34	596
51-9111	Packaging and Filling Machine Operators and Tenders	2	510	65	\$31,400	\$30,900	4,940	552	288
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	2	849	31	\$49,100	\$68,400	130	6	440
43-5071	Shipping, Receiving, and Traffic Clerks	2	457	36	\$32,500	\$33,200	5,033	373	247
51-4121	Welders, Cutters, Solderers, and Brazers	2	528	43	\$30,200	\$42,400	6,320	554	285
13-2011	Accountants and Auditors	1	502	17	\$59,800	\$76,700	333	17	519
11-9041	Architectural and Engineering Managers	1	57	2	\$94,000	\$143,900	484	13	59
51-2099	Assemblers and Fabricators, All Other	1	340	44	\$24,700	\$31,000	0	0	385
51-3011	Bakers	1	188	14	\$29,800	\$27,100	4,576	448	202
43-3031	Bookkeeping, Accounting, and Auditing Clerks	1	1,247	46	\$34,300	\$40,200	1,247	86	1,292
13-1199	Business Operations Specialists, All Other	1	292	13	\$57,100	\$74,900	576	22	306
51-7011	Cabinetmakers and Bench Carpenters	1	139	7	\$26,600	\$34,800	64	5	146
51-9011	Chemical Equipment Operators and Tenders	1	47	1	\$42,800	\$50,300	98	5	49
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	1	96	6	\$23,100	\$34,500	1,671	153	102
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	1	134	8	\$40,200	\$39,600	739	44	143
43-4051	Customer Service Representatives	1	2,618	183	\$25,400	\$35,200	3,093	315	2,801

51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	1	85	8	\$37,200	\$34,000	578	45	93
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	1	272	21	\$29,300	\$34,200	7,573	631	294
17-3023	Electrical and Electronic Engineering Technicians	1	59	3	\$49,400	\$63,000	688	39	62
17-2071	Electrical Engineers	1	69	2	\$68,700	\$98,600	429	13	70
47-2111	Electricians	1	417	21	\$42,400	\$56,600	836	35	438
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	1	38	2	\$25,900	\$35,300	46	4	40
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	1	113	7	\$33,000	\$34,400	2,388	201	120
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	1	362	14	\$51,000	\$66,700	1,300	50	376
43-1011	First-Line Supervisors of Office and Administrative Support Workers	1	1,121	40	\$44,000	\$57,900	1,360	48	1,161
51-3092	Food Batchmakers	1	171	9	\$39,100	\$30,100	1,465	160	180
27-1024	Graphic Designers	1	88	4	\$28,900	\$52,300	0	0	91
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1	37	2	\$32,200	\$34,900	447	34	39
53-3032	Heavy and Tractor-Trailer Truck Drivers	1	2,441	120	\$38,400	\$43,600	1,117	68	2,561
13-1071	Human Resources Specialists	1	283	15	\$50,200	\$64,900	1,993	70	297
17-3026	Industrial Engineering Technicians	1	40	2	\$47,500	\$56,900	26	1	42
11-3051	Industrial Production Managers	1	183	8	\$77,100	\$107,100	6,515	102	191
53-7051	Industrial Truck and Tractor Operators	1	954	55	\$31,000	\$34,300	4,491	468	1,008
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	1	1,703	118	\$24,200	\$27,000	5,390	467	1,821
53-3033	Light Truck or Delivery Services Drivers	1	868	39	\$29,500	\$34,800	1,923	132	908
53-7063	Machine Feeders and Offbearers	1	182	22	\$26,700	\$30,500	799	54	204
49-9043	Maintenance Workers, Machinery	1	94	3	\$39,000	\$46,000	5	0	97
11-9199	Managers, All Other	1	510	6	\$70,100	\$112,200	1,202	45	515
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	1	294	24	\$20,900	\$25,500	2,562	203	318
17-2141	Mechanical Engineers	1	111	2	\$68,800	\$89,800	287	9	113
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1	115	8	\$37,200	\$37,600	402	25	123
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	1	177	10	\$35,700	\$32,700	979	100	187

51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1	157	8	\$40,900	\$36,200	530	37	165
43-9061	Office Clerks, General	1	1,545	111	\$26,000	\$33,000	4,277	243	1,656
53-7064	Packers and Packagers, Hand	1	836	111	\$25,100	\$24,400	2,703	220	947
51-9196	Paper Goods Machine Setters, Operators, and Tenders	1	40	2	\$31,200	\$38,600	529	37	42
51-5113	Print Binding and Finishing Workers	1	43	3	\$32,900	\$33,300	10,764	1,029	46
51-5112	Printing Press Operators	1	120	6	\$27,100	\$37,500	297	23	125
51-9199	Production Workers, All Other	1	433	44	\$25,400	\$32,400	0	0	477
43-5061	Production, Planning, and Expediting Clerks	1	210	5	\$38,400	\$49,000	696	42	214
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	1	165	9	\$49,700	\$67,400	442	19	174
41-2031	Retail Salespersons	1	3,304	198	\$25,300	\$27,200	934	64	3,502
11-2022	Sales Managers	1	141	5	\$110,200	\$135,100	822	23	146
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	1	102	4	\$50,700	\$92,900	1,131	40	106
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	1	328	21	\$24,300	\$30,000	457	35	349
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	1	1,716	87	\$27,300	\$36,100	2,157	168	1,803
51-6031	Sewing Machine Operators	1	342	32	\$22,300	\$25,800	1,719	139	374
51-3023	Slaughterers and Meat Packers	1	192	16	\$25,400	\$27,000	1,152	131	208
15-1132	Software Developers, Applications	1	254	7	\$80,300	\$104,300	939	36	261
15-1133	Software Developers, Systems Software	1	149	4	\$86,100	\$110,600	1,118	42	153
43-5081	Stock Clerks and Order Fillers	1	1,656	132	\$24,200	\$26,700	14,247	1,440	1,788
51-2041	Structural Metal Fabricators and Fitters	1	77	5	\$30,700	\$40,000	56	4	82
51-4111	Tool and Die Makers	1	104	5	\$41,100	\$51,600	566	40	109
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	1	111	9	\$32,800	\$38,400	1,581	117	120
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	1	432	33	\$26,500	\$29,800	328	21	464
	Total Annual Payroll				\$3,944,000	\$4,942,000			

Source: JobsEQ®

1. Occupation employment and unemployment are place-of-residence data--that is, referring to workers who reside in the named locality.

2. Occupation wages are as of 2016 and represent the average for all Covered Employment

Data as of 2017Q3 unless noted otherwise

Note: Figures may not sum due to rounding.

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Education Breakdown for What-If Analysis
Cumberlands, KY WDA, NAICS 31 - Manufacturing

Less than high school diploma	15.5
High school diploma or equivalent	46.0
Some college, no degree	16.3
Associate's degree	8.4
Bachelor's degree	9.6
Master's degree	3.4
Doctoral or professional degree	0.7

[Source: JobsEQ®](#)

Data as of 2017Q3

Exported on: Tuesday, January 9, 2018 1:55 PM

EDUCATION



Industrial Development Authority

WORKFORCE

ANALYSIS

Education – Russell County

Russell County has a very robust K-12 secondary school system. As indicated in attached charts education begins at young age with 456 enrolled in Kindergarten, Preschool or Head Start. Many assessments of these youth are contained in the charts with Russell County above state levels and below in others while maintaining overall numbers that are close to the state average.

For the School Year 2014-2015 Russell County High School graduated 205 seniors. Many achievements were accomplished by these students. The Graduation rate was 93.1%, GPA was at 3.18, and all ACT scores were above 19 with the exception of English, 66.3% earned college credits prior to graduation, 45.4% earned and industry certificate. In state college going rate for graduates from this class was 62.4%. 76.1% of students were deemed college and/or career ready with 56.1% ready for college and 61% were ready for career. The Russell County Board of Education will start the process of building a new \$11 million dollar Area Technology Center that will greatly enhance the ability of students to learn and earn industry certificates that will allow them to become an integral part of the local workforce going forward.

For the students entering college after graduation 23.4% entered a four year university, 41.4% entered a two-year KCTCS and 39.1% entered an independent university or college. 72.6% of the female students attended college while 46.9% of the male students attended college.

Somerset Community College had the most attendees from this graduating class with 52. Lindsey Wilson College was next with 40 and Western Kentucky University had 14. The balance was spread over several colleges and universities.

Located within 60 miles of Russell Springs there are eight (8) colleges and universities, three (3) different KCTCS Colleges with several satellite locations and fifteen (15) Boards of Education with Area Technology Schools. This provides several different sources and locations for residents of Russell County to obtain occupational and college certificates and degrees and provides a base for employers to have access to those individuals.

2017 Early Childhood Profile

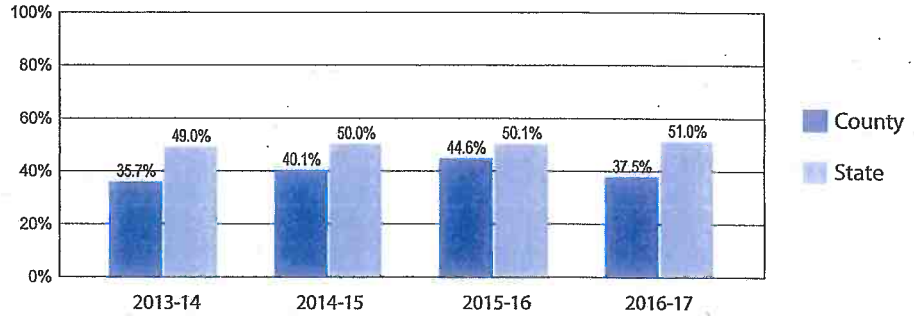
Russell County

The Early Childhood Profile is produced by the Kentucky Center for Education and Workforce Statistics (KCEWS) for the Governor's Office of Early Childhood (GOEC) and the Early Childhood Advisory Council (ECAC) utilizing data from the Kentucky Longitudinal Data System (KLDS). For detailed explanations of data in this report, see the technical notes at <http://kcews.ky.gov/reports/earlychildhoodprofiles/>



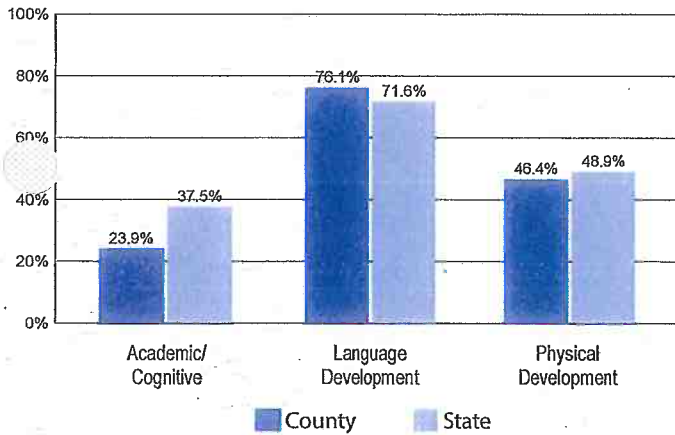
Kindergarten Readiness

Kindergarten readiness means each child enters school ready to engage in and benefit from early learning experiences that best promote the child's success. The BRIGANCE K Screen III measures readiness in five domains: academic/cognitive, language, physical, self-help, and social-emotional development. The composite readiness score reflected here is comprised of the academic/cognitive, language, and physical development domains and represents the percentage of students who were ready for kindergarten.



Results by Composite Domain

Percent Scoring Average or Above Average by Domain



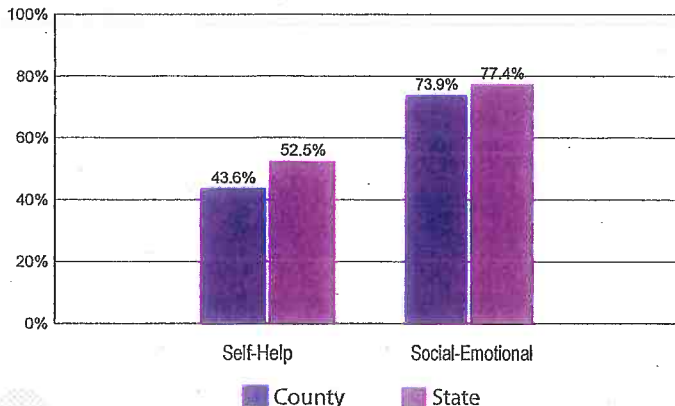
Early Care and Education Program Enrollments

	County	State
Kindergarten	277	51,305
Preschool	127	22,367
At-risk 4-year-olds at or below 160% of the federal poverty level (FPL)	69	9,206
3- and 4-year-olds with disabilities	34	9,976
Other	0	1,492
Head Start	52	13,144
3- and 4-year-olds income eligible	49	11,270
3- and 4-year-olds with disabilities	0	1,571
Other	3	303
Licensed and certified child care capacity	499	166,254
Children receiving child care assistance (CCAP program)	138	26,775
CCAP at Licensed Centers	138	25,170
CCAP at Licensed Homes	*	145
CCAP at Certified Homes	*	615
CCAP at Registered Providers	*	144

* Data suppressed to ensure confidentiality.

Results by Social-Emotional and Self-Help Domains

Percent Scoring Average or Above Average by Domain



Scores for social-emotional and self-help domains are reported by parents and are not included in readiness scores.

Third Grade Assessment Results

The 3rd grade assessment is an evaluation of the student's learning that occurs from birth through 3rd grade. Below are the percentages of 3rd grade students who scored proficient or distinguished in the 2015-16 school year.

	County	State
Math	39.5%	47.7%
Reading	58.6%	53.7%

Family, Health, and Services

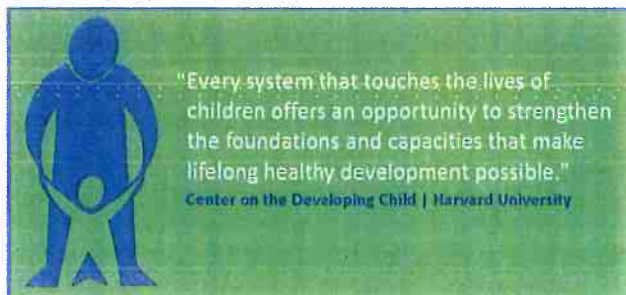
Select Indicators	County #	County %	State %
Number of children:			
0-2 year-olds	655	3.7%	3.8%
3-4 year-olds	466	2.6%	2.5%
5-6 year-olds	461	2.6%	2.5%
Children under 6 years old living below:			
100% poverty	732	50.1%	29.9%
150% poverty	978	66.9%	42.3%
200% poverty	1,074	73.5%	53.0%
Households with English not primary language			
	211	3.0%	5.7%
Births to teenage girls 15-19 years old**			
	29	60^	38^
Preterm babies (born before 37 weeks of pregnancy)**			
	24	11.4%	10.9%

^ Rate per 1,000 females ages 15-19

**Numbers represent 1-year rolling averages calculated from 3-year aggregate data. Rates are 3-year aggregate rates.

Support Services

	County #	State #
Children receiving WIC	471	83,354
Families served by the First Steps program	20	4,237
Number of families served by the HANDS home visitation program	137	10,697



State and Local Contact

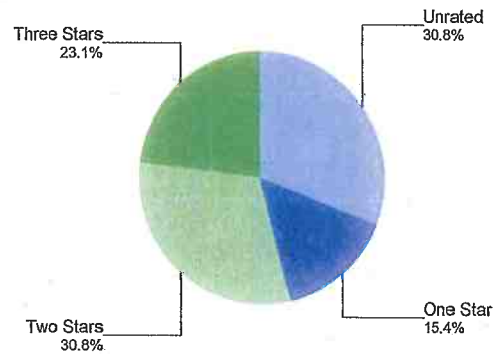
Russell Co. Community Early Childhood Council Chair
 Lynae Riggins tots@duo-county.com

Visit the Governor's Office of Early Childhood online at <http://kidsnow.ky.gov> or call 502-782-0200 for more information.

Visit <http://kcews.ky.gov/reports/earlychildhoodprofiles/> for sources, technical descriptions of each data element in this profile, notes for how to use this report, and links to other sources of information for the early childhood community. For school and district Kindergarten readiness data, please visit the Kentucky Department of Education's Open House website at <http://openhouse.education.ky.gov/>

STARS for KIDS NOW Participation

STARS is the rating and improvement system for licensed and certified child care providers. Participants receive resources and technical assistance to continually improve their quality and their star rating. A higher star rating means the provider is meeting quality standards that help children succeed. Next year this reporting will be for Kentucky All STARS.



Rating	Child Care Centers		Child Care Capacity	
	Licensed	Certified	Licensed	Certified
STARS	7	2	420	12
Not STARS	1	3	49	18

To find a STAR-rated child care provider in your county, click here: <https://prdweb.chfs.ky.gov/kiccpublic/providersearchpublic.aspx>

To learn about STARS for KIDS NOW, click here: <http://chfs.ky.gov/dcb/dcc/stars/aboutstars.htm>

Early Childhood Workforce

KIDS NOW Scholarships

KIDS NOW Scholarships awarded to early childhood educators:

	County #	County \$	State #	State \$
College	1	\$661	1,062	\$945,418
Non-College	0	\$0	312	\$65,520

To learn more about scholarships, contact a Professional Development Counselor in your county: <http://www.kentuckypartnership.org/about/map>

High School Credentials

Family and Consumer Sciences programs offer high school early childhood students an opportunity to earn industry-recognized certificates and credentials.

	County #	State #
Early Care and Education Orientation Certificate	0	780
Commonwealth Child Care Credential	0	772
Child Development Associate	0	7

For more information about these programs, please visit: <http://education.ky.gov/CTE/ctepa/FCS/Pages/default.aspx>

The Kentucky High School Feedback Report is produced by the Kentucky Center for Education and Workforce Statistics utilizing data from the Kentucky Longitudinal Data System (KLDS), which includes data from the Kentucky Department of Education, Kentucky Council on Postsecondary Education, and the Kentucky Higher Education Assistance Authority. This report provides the most complete and accurate data about college going that exists for this school. It follows students who graduated from public high schools in 2014-15 and were enrolled in a college or university during the 2015-16 academic year.

A. Overall, how do 2014-15 graduates from this school compare to others in Kentucky?

In order to ensure the confidentiality of individuals, some data items have been redacted. Redacted data are represented by an asterisk (*).

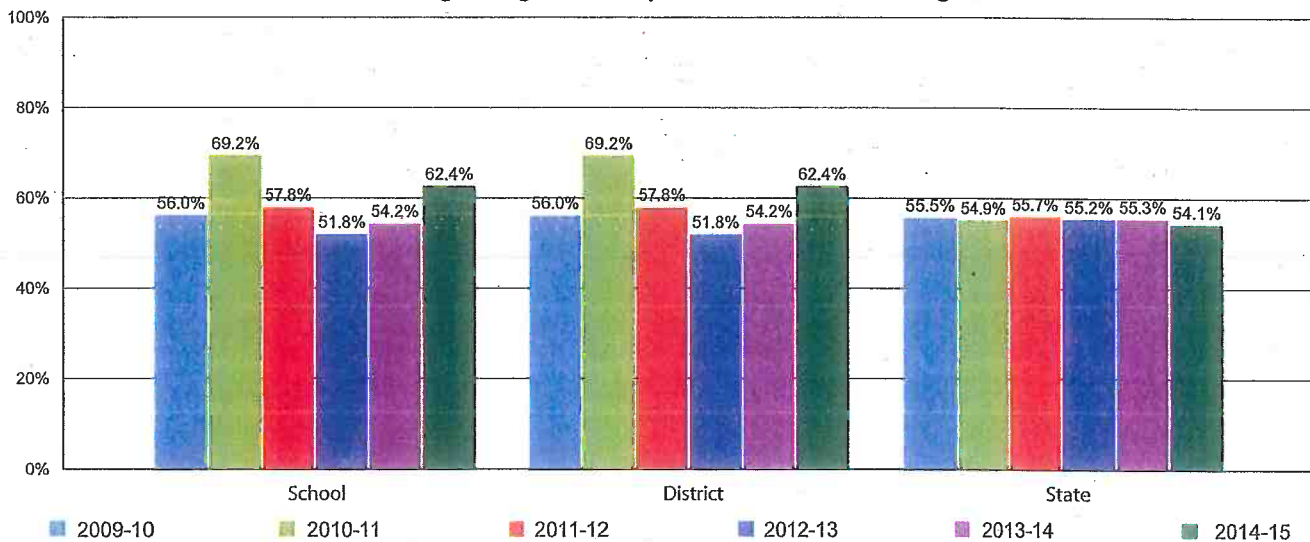
	School	District	Kentucky
1. Number of high school graduates	205	205	44,049
2. Average high school GPA	3.18	3.18	2.93
3. Percent of students in this class who were eligible for free or reduced lunch	67.8%	67.8%	50.2%
4. Average junior year ACT scores for this class by subject			
a. English	18.3	18.3	19.1
b. Mathematics	19.3	19.3	19.4
c. Reading	19.4	19.4	19.8
d. Science	19.1	19.1	19.9
e. Composite	19.1	19.1	19.7
5. Percent of these graduates who enrolled in at least one Advanced Placement (AP) course	1.5%	1.5%	41.7%
6. Percent of these graduates earning college credit prior to graduation	66.3%	66.3%	48.5%
7. Percent of these graduates earning an industry certificate	45.4%	45.4%	17.7%
8. Average Kentucky Educational Excellence Scholarship (KEES) Awards earned by these graduates	\$1,343	\$1,343	\$1,189
9. Overall in-state college-going rate for graduates from this class	62.4%	62.4%	54.1%

Quick Statistics

High school graduation rate (cohort)	93.1%
Percent of graduates ready for college**	56.1%
Percent of graduates ready for career**	61.0%
Percent of graduates ready for college and/or career**	76.1%
Average KEES Awards earned by these graduates	\$1,343
College-going rates:	
a. Overall college-going rate	62.4%
b. Eligible for free/reduced price lunch	56.8%
c. College and/or career ready**	72.4%
d. Not college and/or career ready**	30.6%
Percent of graduates attending an in-state public college or university who started college full-time	95.1%

** As defined by the Kentucky Department of Education.

In-State College Going Rates Compared to Previous Graduating Classes

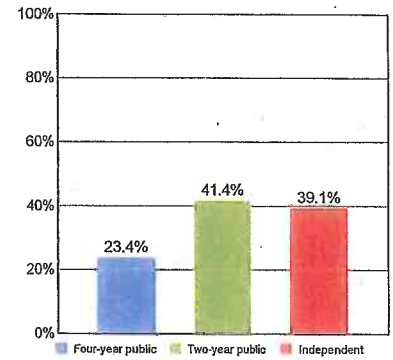


Note: This Kentucky High School Feedback Report was produced using data from the Kentucky Longitudinal Data System (KLDS) and provides information at a deeper level and in a different format than previous reports. If you intend to compare data from this report to others, please review the technical notes for each to ensure that the data are comparable. For more information, please visit <http://KCEWS.ky.gov> or e-mail KCEWS@ky.gov.

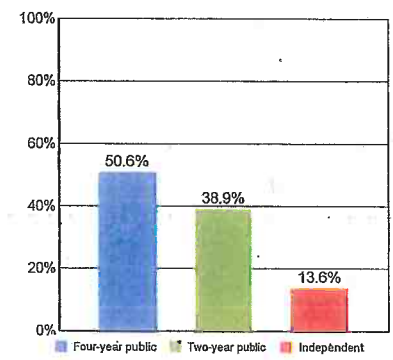
B. What types of in-state colleges and universities did 2014-15 graduates from this school attend?

	School	District	Kentucky
1. Number of 2014-15 high school graduates entering college	128	128	23,825
2. Type of college or university attended			
a. Four-year public university	23.4%	23.4%	50.6%
b. Two-year public community or technical college (KCTCS)	41.4%	41.4%	38.9%
c. Independent	39.1%	39.1%	13.6%
3. College going rates for specific student populations			
a. Male	46.9%	46.9%	47.3%
b. Female	72.6%	72.6%	61.0%
c. White	63.3%	63.3%	55.2%
d. African-American	*	*	48.2%
e. Hispanic/Latino	*	*	44.5%
f. Eligible for free/reduced lunch	56.8%	56.8%	43.5%
g. Special education	*	*	16.1%
h. Ready for college and/or career**	72.4%	72.4%	66.7%
i. Not ready for college and/or career**	30.6%	30.6%	28.4%
j. Enrolled in at least one AP course	*	*	73.3%
k. Earned college credit prior to graduation	66.9%	66.9%	67.8%

In-State Postsecondary Enrollments for Graduates of This School



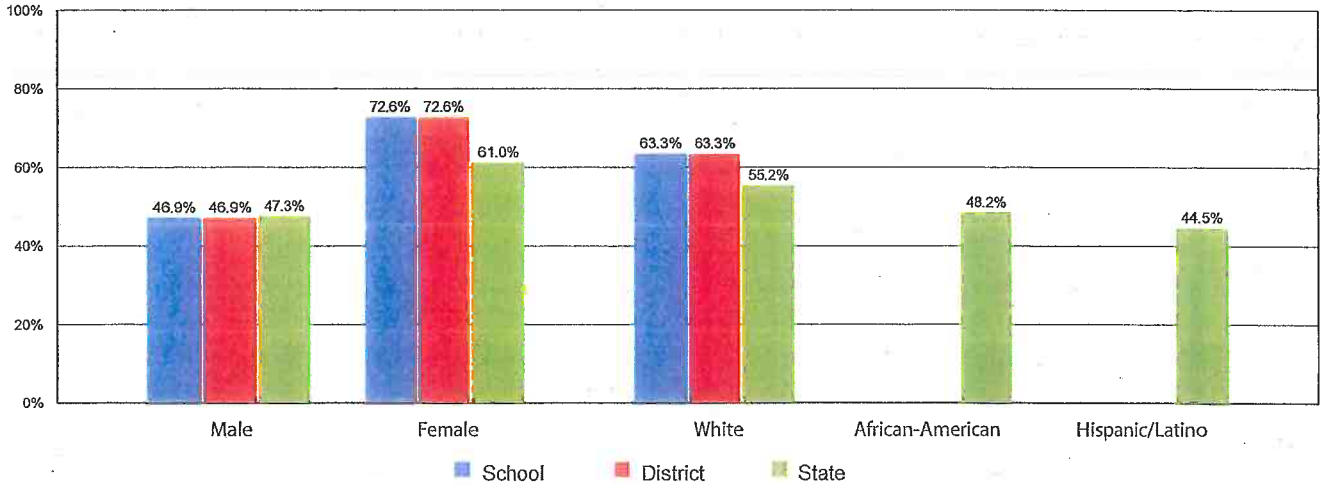
In-State Postsecondary Enrollments for Graduates Statewide



The following data include only those students who attended an in-state public college or university.

	School	District	Kentucky
4. Started college full-time	95.1%	95.1%	91.3%
5. Degree or credential sought			
a. Bachelor's degree	37.8%	37.8%	54.0%
b. Associate's degree	52.4%	52.4%	39.8%
c. Certificate or diploma	9.8%	9.8%	3.4%
d. Not designated, undecided, undeclared, or no degree	*	*	2.9%

In-State College Going Rates for Graduates by Demographic Characteristics



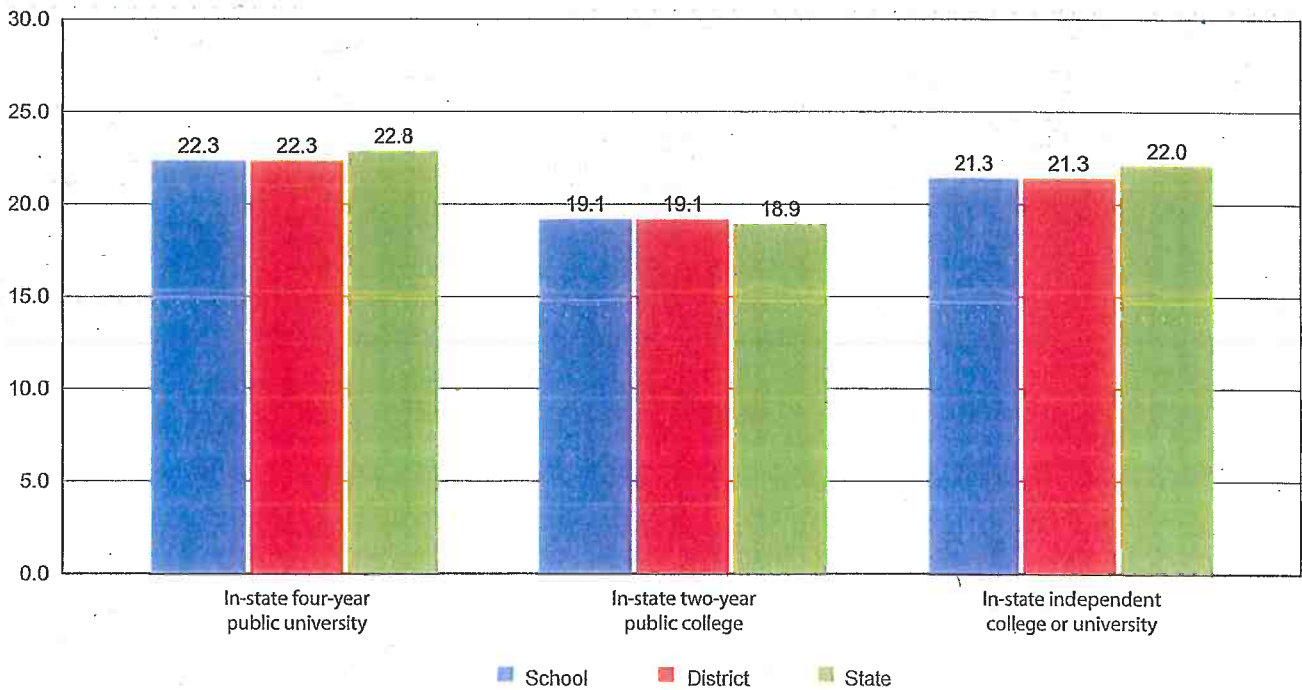
**College and/or career readiness as defined by KDE.

C. Where did 2014-15 graduates from this school go to college?

Top 10 In-State Colleges and Universities Attended

Somerset Community College	52
Lindsey Wilson College	40
Western Kentucky University	14
Campbellsville University	7
University Of Kentucky	6
Eastern Kentucky University	6
Centre College	1
Berea College	1
University Of Louisville	1
Jefferson Community & Technical College	1
Other Institutions	4

Average Junior Year ACT Composite by Enrolled Institution Type



Kentucky's college readiness benchmarks for the ACT are 18 in English, 19 in mathematics, and 20 in reading.

Technical notes for this report can be found at <http://kcews.ky.gov/reports/2017HSFRTechNotes.pdf>.



Education & Training

Four-Year Colleges and Universities Within 60 Miles of Russell Springs

Institutions engaged in furnishing academic courses and granting degrees at baccalaureate or graduate levels.

Miles	Institution	Location	Enrollment (Fall 2015)
13	Lindsey Wilson College	Columbia	2,651
25	Campbellsville University	Campbellsville	3,128
44	Centre College	Danville	1,367
44	Eastern Kentucky University, Danville Campus	Danville	N/A
47	WKU - Glasgow Campus	Glasgow	N/A
54	Eastern Kentucky University, Corbin Campus	Corbin	N/A
55	University of the Cumberland	Williamsburg	6,276
56	Berea College	Berea	1,643
	Total Enrollments		15,065

Note: Miles are calculated as straight-line distance, not highway miles.

† Denotes enrollment for entire institution, including branch campuses; otherwise, enrollment is for specified campus.

Source: Kentucky Cabinet for Economic Development.

Two-Year Colleges Within 60 Miles of Russell Springs

Institutions engaged in furnishing academic, or academic and technical, courses and granting associate degrees, certificates, or diplomas below the baccalaureate level.

Miles	Institution	Location	Enrollment (Fall 2015)
-	Somerset Community College, Russell Center	Russell Springs	N/A
20	Somerset Community College, Casey Center	Liberty	N/A
25	Somerset Community College, Clinton Center	Albany	N/A
26	Somerset Community College, Somerset North Campus	Somerset	† 6,386
40	Somerset Community College, McCreary Center	Whitley City	N/A
44	American National University - Danville KY Campus	Danville	N/A
44	Bluegrass Community & Technical College, Danville Campus	Danville	N/A
45	Elizabethtown Community & Tech. College, Springfield Campus	Springfield	N/A
47	Southcentral KY Community & Technical College, Glasgow Campus	Glasgow	N/A
47	Southcentral KY Community & Technical College, Glasgow Tech. Campus	Glasgow	N/A
55	Somerset Community College, Laurel North Campus	London	N/A
	Total Enrollments		6,386

Note: Miles are calculated as straight-line distance, not highway miles.

† Denotes enrollment for entire institution, including branch campuses; otherwise, enrollment is for specified campus.

Source: Kentucky Cabinet for Economic Development.

Kentucky Technical Schools Within 60 Miles of Russell Springs

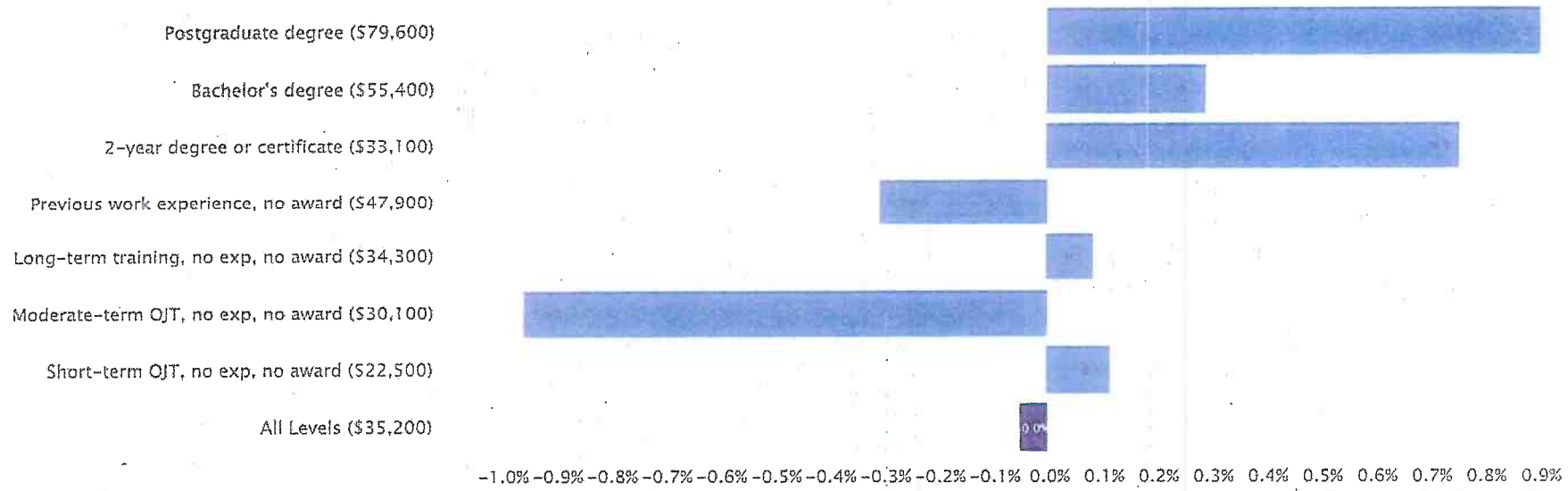
Miles	Institution	Location	Enrollment (2015-2016)		
			Sec	P/S	Total
-	Lake Cumberland ATC	Russell Springs	641	N/A	641
19	Wayne County ATC	Monticello	633	N/A	633
20	Casey County ATC	Liberty	501	N/A	501
25	Clinton County ATC	Albany	577	N/A	577
26	Pulaski ATC	Somerset	513	N/A	513
27	Green County ATC	Greensburg	750	N/A	750
37	Marion County ATC	Lebanon	604	N/A	604
40	Lincoln County ATC	Stanford	278	N/A	278
42	Monroe County ATC	Tompkinsville	827	N/A	827
46	Rockcastle County ATC	Mount Vernon	427	N/A	427
47	Barren County ATC	Glasgow	743	N/A	743
48	Garrard County ATC	Lancaster	377	N/A	377
51	Hughes Jones Harrodsburg ATC	Harrodsburg	266	N/A	266
54	Corbin ATC	Corbin	452	N/A	452

57	Nelson County ATC	Bardstown	444	N/A	444
		Total Enrollments	8,033		8,033

Note: Miles are calculated as straight-line distance; not highway miles. Kentucky Tech secondary schools, called Area Technology Centers (ATC), are operated by the Department of Education, Office of Career and Technical Education. Other secondary schools are operated locally by public school districts. Secondary student enrollment is listed under Sec, and post-secondary student enrollment is listed under P/S. Source: KY Cabinet for Workforce Development; KY Dept. of Education.

Annual Average Projected Job Growth by Training Required for Russell County, Kentucky

All Occupations



Source: JobsIQ - Data as of 2017Q2

CERTIFICATES & DEGREES



Industrial Development Authority

WORKFORCE ANALYSIS

Certificates and Degrees – Russell County

The data contained in the section is for the Cumberland Workforce Development Area (CWDA). No location is available to pull the data specific for Russell County. However, this report is a good indicator for Russell County of the certificates and degrees that were received as of the academic year 2015-2016.

The second report contains CIP Titles and SOC Titles for specific jobs for which certificates and degrees were obtained. Included in the report are annual replacement demand and total annual demand for each job title plus the number currently employed and average wages. Again this report is for the CWDA but can be used as an indicator for the same job titles in Russell County.

A third report shows the median wages for individuals with differing education levels and differing sector jobs for 1, 3 and 5 years' experience. This report shows the importance of obtaining a certificate or degree and the resulting wages that can be earned with them. It also shows the ability to attract higher level and wage jobs if the workforce has the skills and training that is required.

Information can be obtained from Somerset Community College and the Lake Cumberland Area Technology Center concerning the certificates and degrees that they issue. However this is not a true reflection of the amount that is obtained by Russell County residents. Many residents attend other institutions of higher education and many attend non-proprietary schools that have differing sources of issuing certificates. The issue of not being able to track the number of individuals with certificates and degrees has been an issue that has been discussed by the Work Ready Community committee and hopefully a resolution will be forthcoming. Having access to the total number would be of great value for economic development.

Awards in Cumberlands, KY WDA

CIP Code	Title	Certificates			Total Awards
		and 2yr Awards	4yr Awards	Postgraduate Awards	
52.0301	Accounting	0	12	0	12
	Accounting Technology/Technician and				
52.0302	Bookkeeping	2	0	0	2
47.0608	Aircraft Powerplant Technology/Technician	25	0	0	25
05.0102	American/United States Studies/Civilization	0	0	0	0
	Animation, Interactive Technology, Video				
10.0304	Graphics and Special Effects	5	0	0	5
13.1302	Art Teacher Education	0	0	6	6
	Autobody/Collision and Repair				
47.0603	Technology/Technician	14	0	0	14
	Automobile/Automotive Mechanics				
47.0604	Technology/Technician	145	0	0	145
12.0402	Barbering/Barber	25	0	0	25
39.0201	Bible/Biblical Studies	4	16	14	34
13.1322	Biology Teacher Education	0	1	0	1
26.0101	Biology/Biological Sciences, General	0	50	0	50
	Business Administration and Management,				
52.0201	General	202	54	49	305
13.1303	Business Teacher Education	0	0	12	12
52.0101	Business/Commerce, General	17	153	35	205
46.0201	Carpentry/Carpenter	10	0	0	10
40.0501	Chemistry, General	0	7	0	7
19.0709	Child Care Provider/Assistant	140	0	0	140
42.2801	Clinical Psychology	0	0	8	8
	Clinical, Counseling and Applied Psychology,				
42.2899	Other	0	0	0	0
51.1004	Clinical/Medical Laboratory Technician	59	0	0	59
51.1504	Community Health Services/Liaison/Counseling	0	18	0	18
11.0101	Computer and Information Sciences, General	227	5	0	232

	Computer and Information Systems				
11.1003	Security/Information Assurance	0	0	12	12
13.1321	Computer Teacher Education	0	0	0	0
50.0906	Conducting	0	0	2	2
12.0401	Cosmetology/Cosmetologist, General	32	0	0	32
42.2803	Counseling Psychology	0	0	225	225
13.1101	Counselor Education/School Counseling and Guidance Services	0	0	98	98
43.0103	Criminal Justice/Law Enforcement Administration	74	44	25	143
43.0104	Criminal Justice/Safety Studies	5	66	0	71
12.0503	Culinary Arts/Chef Training	72	0	0	72
13.0301	Curriculum and Instruction	0	0	270	270
47.0605	Diesel Mechanics Technology/Technician	120	0	0	120
15.1301	Drafting and Design Technology/Technician, General	1	0	0	1
50.0501	Drama and Dramatics/Theatre Arts, General	0	1	0	1
13.1210	Early Childhood Education and Teaching	0	26	0	26
45.0601	Economics, General	0	3	0	3
13.0101	Education, General	0	0	5	5
13.9999	Education, Other	0	0	0	0
13.0499	Educational Administration and Supervision, Other	0	0	161	161
13.0601	Educational Evaluation and Research	0	0	13	13
15.0399	Electrical and Electronic Engineering Technologies/Technicians, Other	40	0	0	40
46.0302	Electrician	111	0	0	111
15.0499	Electromechanical and Instrumentation and Maintenance Technologies/Technicians, Other	0	0	0	0
13.1202	Elementary Education and Teaching	0	44	89	133
51.0904	Emergency Medical Technology/Technician (EMT Paramedic)	8	0	0	8
15.0000	Engineering Technology, General	43	0	0	43
14.0101	Engineering, General	0	0	0	0

14.9999	Engineering, Other	0	0	0	0
23.0101	English Language and Literature, General	0	19	0	19
13.1305	English/Language Arts Teacher Education	0	3	0	3
52.0701	Entrepreneurship/Entrepreneurial Studies	0	0	0	0
03.0104	Environmental Science	0	0	0	0
52.0402	Executive Assistant/Executive Secretary	24	0	0	24
50.0702	Fine/Studio Arts, General	0	5	0	5
43.0203	Fire Science/Fire-fighting	12	0	0	12
24.0102	General Studies	8	9	0	17
10.0301	Graphic Communications, General	26	0	0	26
50.0409	Graphic Design	13	0	7	20
31.0501	Health and Physical Education/Fitness, General	0	17	0	17
51.0001	Health and Wellness, General	0	0	0	0
13.1307	Health Teacher Education	0	5	4	9
51.0701	Health/Health Care Administration/Management	0	12	0	12
51.1199	Health/Medical Preparatory Programs, Other	5	0	0	5
	Heating, Air Conditioning, Ventilation and Refrigeration Maintenance				
47.0201	Technology/Technician	16	0	0	16
54.0101	History, General	0	22	0	22
44.0000	Human Services, General	1	259	0	260
24.0103	Humanities/Humanistic Studies	0	0	0	0
	Industrial Mechanics and Maintenance				
47.0303	Technology	97	0	0	97
09.0401	Journalism	0	8	0	8
	Junior High/Intermediate/Middle School				
13.1203	Education and Teaching	0	18	26	44
13.1209	Kindergarten/Preschool Education and Teaching	0	7	0	7
31.0505	Kinesiology and Exercise Science	0	3	0	3
	Liberal Arts and Sciences, General Studies and				
24.0199	Humanities, Other	0	0	0	0
24.0101	Liberal Arts and Sciences/Liberal Studies	323	1	0	324

51.3901	Licensed Practical/Vocational Nurse Training	168	0	0	168
48.0503	Machine Shop Technology/Assistant	13	0	0	13
52.1201	Management Information Systems, General	0	3	0	3
52.1401	Marketing/Marketing Management, General	0	0	0	0
46.0101	Mason/Masonry	14	0	0	14
09.0102	Mass Communication/Media Studies	0	6	0	6
13.1311	Mathematics Teacher Education	0	0	0	0
27.0101	Mathematics, General	0	16	0	16
	Medical Administrative/Executive Assistant and				
51.0716	Medical Secretary	268	0	0	268
51.0801	Medical/Clinical Assistant	53	0	0	53
39.0301	Missions/Missionary Studies and Missiology	0	2	0	2
30.9999	Multi-/Interdisciplinary Studies, Other	76	0	0	76
50.0912	Music Pedagogy	0	0	0	0
50.0903	Music Performance, General	0	5	6	11
13.1312	Music Teacher Education	0	6	3	9
50.0901	Music, General	0	1	2	3
52.0204	Office Management and Supervision	1	0	0	1
52.1003	Organizational Behavior Studies	0	2	0	2
52.0213	Organizational Leadership	0	0	26	26
	Parks, Recreation and Leisure Facilities				
31.0301	Management, General	0	9	0	9
15.0903	Petroleum Technology/Technician	0	0	0	0
51.0805	Pharmacy Technician/Assistant	21	0	0	21
38.9999	Philosophy and Religious Studies, Other	0	0	0	0
13.1314	Physical Education Teaching and Coaching	0	8	9	17
51.0806	Physical Therapy Technician/Assistant	17	0	0	17
51.0912	Physician Assistant	0	0	0	0
40.0801	Physics, General	0	3	0	3
42.2706	Physiological Psychology/Psychobiology	0	8	0	8
45.1001	Political Science and Government, General	0	17	0	17
42.0101	Psychology, General	1	86	0	87
09.0902	Public Relations/Image Management	0	7	0	7
09.0701	Radio and Television	0	4	0	4

51.0911	Radiologic Technology/Science - Radiographer	20	0	0	20
13.1315	Reading Teacher Education	0	0	278	278
51.3801	Registered Nursing/Registered Nurse	89	63	0	152
38.0201	Religion/Religious Studies	1	0	0	1
39.0401	Religious Education	0	34	0	34
39.0501	Religious/Sacred Music	0	0	0	0
51.0908	Respiratory Care Therapy/Therapist	19	0	0	19
13.1205	Secondary Education and Teaching	0	0	34	34
13.1317	Social Science Teacher Education	0	4	0	4
45.0101	Social Sciences, General	0	7	1	8
13.1318	Social Studies Teacher Education	0	0	28	28
44.0701	Social Work	0	31	47	78
45.1101	Sociology	0	5	0	5
16.0905	Spanish Language and Literature	0	10	0	10
13.1330	Spanish Language Teacher Education	0	0	0	0
13.1001	Special Education and Teaching, General	0	1	145	146
09.0101	Speech Communication and Rhetoric	0	29	0	29
31.0504	Sport and Fitness Administration/Management	0	30	3	33
51.0909	Surgical Technology/Technologist	9	0	0	9
13.1501	Teacher Assistant/Aide	0	0	0	0
	Teacher Education and Professional				
13.1399	Development, Specific Subject Areas, Other	0	0	0	0
	Teaching English as a Second or Foreign				
13.1401	Language/ESL Language Instructor	0	0	1	1
39.0601	Theology/Theological Studies	0	0	22	22
50.0101	Visual and Performing Arts, General	0	3	0	3
48.0508	Welding Technology/Welder	88	0	0	88
	Total	2,764	1,288	1,666	5,718

Source: JobsEQ®

Data as of the 2015-2016 academic year, related occupation data as of 2017Q3 except wages which are as of 2016.

Note: Figures may not sum due to rounding.

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Occupation Linkages for Awards in Cumberlands, KY WDA

CIP Code	CIP Title	SOC Code	SOC Title	Annual		Empl	Avg. Wages
				Separation Demand	Total Annual Demand		
52.0301	Accounting	13-2011	Accountants and Auditors	46	49	513	\$59,800
52.0301	Accounting	13-2031	Budget Analysts	3	3	36	\$47,000
52.0301	Accounting	13-2041	Credit Analysts	3	4	42	\$55,100
52.0301	Accounting	13-2061	Financial Examiners Tax Examiners and Collectors, and Revenue	2	2	25	\$53,400
52.0301	Accounting	13-2081	Agents	2	2	22	\$49,800
52.0301	Accounting	25-1011	Business Teachers, Postsecondary	4	5	54	\$93,700
52.0302	Accounting Technology/Technician and Bookkeeping	13-2082	Tax Preparers	7	8	68	\$25,300
52.0302	Accounting Technology/Technician and Bookkeeping	43-3031	Bookkeeping, Accounting, and Auditing Clerks	133	126	1,237	\$34,300
52.0302	Accounting Technology/Technician and Bookkeeping	43-3051	Payroll and Timekeeping Clerks	11	10	114	\$35,400
52.0302	Accounting Technology/Technician and Bookkeeping	43-4011	Brokerage Clerks	1	1	14	\$34,500
52.0302	Accounting Technology/Technician and Bookkeeping	43-9111	Statistical Assistants	1	1	5	\$44,300
47.0608	Aircraft Powerplant Technology/Technician	49-3011	Aircraft Mechanics and Service Technicians Aircraft Structure, Surfaces, Rigging, and Systems	4	5	52	\$77,000
47.0608	Aircraft Powerplant Technology/Technician	51-2011	Assemblers Area, Ethnic, and Cultural Studies Teachers,	1	1	9	\$47,100
05.0102	American/United States Studies/Civilization Animation, Interactive Technology, Video	25-1062	Postsecondary Camera Operators, Television, Video, and Motion	0	1	6	\$84,800
10.0304	Graphics and Special Effects Animation, Interactive Technology, Video	27-4031	Picture	0	0	4	\$26,700
10.0304	Graphics and Special Effects	27-1014	Multimedia Artists and Animators	1	2	18	\$49,400
13.1302	Art Teacher Education	25-1081	Education Teachers, Postsecondary	6	7	80	\$55,400
13.1302	Art Teacher Education	25-1121	Art, Drama, and Music Teachers, Postsecondary	5	5	58	\$82,300
13.1302	Art Teacher Education	25-2022	Middle School Teachers, Except Special and Career/Technical Education	39	39	555	\$48,900
13.1302	Art Teacher Education	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
47.0603	Autobody/Collision and Repair Technology/Technician	13-1032	Insurance Appraisers, Auto Damage	0	0	2	\$58,100
47.0603	Autobody/Collision and Repair Technology/Technician	51-9122	Painters, Transportation Equipment	4	5	43	\$42,600
47.0603	Autobody/Collision and Repair Technology/Technician	49-3021	Automotive Body and Related Repairers	13	14	138	\$35,400

47.0603	Autobody/Collision and Repair Technology/Technician	49-3022	Automotive Glass Installers and Repairers	1	1	12	\$31,300
47.0604	Automobile/Automotive Mechanics Technology/Technician	49-3023	Automotive Service Technicians and Mechanics	70	72	754	\$34,600
47.0604	Automobile/Automotive Mechanics Technology/Technician	49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	1	1	15	\$47,500
47.0604	Automobile/Automotive Mechanics Technology/Technician	49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	1	0	8	\$30,800
12.0402	Barbering/Barber	39-5011	Barbers	3	3	33	\$34,900
39.0201	Bible/Biblical Studies	25-1126	Philosophy and Religion Teachers, Postsecondary	2	2	25	\$65,300
39.0201	Bible/Biblical Studies	21-2021	Directors, Religious Activities and Education	11	11	89	\$62,200
13.1322	Biology Teacher Education	25-1042	Biological Science Teachers, Postsecondary	3	4	43	\$56,700
13.1322	Biology Teacher Education	25-1081	Education Teachers, Postsecondary	6	7	80	\$55,400
13.1322	Biology Teacher Education	25-2022	Middle School Teachers, Except Special and Career/Technical Education	39	39	555	\$48,900
13.1322	Biology Teacher Education	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
26.0101	Biology/Biological Sciences, General	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
26.0101	Biology/Biological Sciences, General	25-1042	Biological Science Teachers, Postsecondary	3	4	43	\$56,700
26.0101	Biology/Biological Sciences, General	11-9121	Natural Sciences Managers	1	1	15	\$90,100
26.0101	Biology/Biological Sciences, General	19-1029	Biological Scientists, All Other	1	1	11	\$58,200
26.0101	Biology/Biological Sciences, General	19-1099	Life Scientists, All Other	0	0	4	\$55,500
52.0201	Business Administration and Management, General	11-3051	Industrial Production Managers	12	12	176	\$77,100
52.0201	Business Administration and Management, General	11-3071	Transportation, Storage, and Distribution Managers	9	10	113	\$76,700
52.0201	Business Administration and Management, General	11-9021	Construction Managers	24	27	343	\$65,100
52.0201	Business Administration and Management, General	11-1011	Chief Executives	18	17	263	\$140,100
52.0201	Business Administration and Management, General	11-1021	General and Operations Managers	116	123	1,424	\$77,300
52.0201	Business Administration and Management, General	11-2022	Sales Managers	12	13	143	\$110,200
52.0201	Business Administration and Management, General	11-3011	Administrative Services Managers	9	10	108	\$69,100
52.0201	Business Administration and Management, General	13-1051	Cost Estimators	8	8	77	\$48,300
52.0201	Business Administration and Management, General	11-9199	Managers, All Other	37	41	517	\$70,100

52.0201	Business Administration and Management, General	13-1111	Management Analysts	10	11	111	\$65,700
52.0201	Business Administration and Management, General	13-2053	Insurance Underwriters	2	2	21	\$52,400
52.0201	Business Administration and Management, General	11-9151	Social and Community Service Managers	12	15	135	\$51,300
52.0201	Business Administration and Management, General	25-1011	Business Teachers, Postsecondary	4	5	54	\$93,700
13.1303	Business Teacher Education	25-1011	Business Teachers, Postsecondary	4	5	54	\$93,700
13.1303	Business Teacher Education	25-1081	Education Teachers, Postsecondary	6	7	80	\$55,400
13.1303	Business Teacher Education	25-2023	Career/Technical Education Teachers, Middle School	1	1	13	\$50,400
13.1303	Business Teacher Education	25-1194	Vocational Education Teachers, Postsecondary	9	7	125	\$51,500
13.1303	Business Teacher Education	25-2032	Career/Technical Education Teachers, Secondary School	5	5	79	\$52,500
52.0101	Business/Commerce, General	25-1011	Business Teachers, Postsecondary	4	5	54	\$93,700
52.0101	Business/Commerce, General	11-3051	Industrial Production Managers	12	12	176	\$77,100
52.0101	Business/Commerce, General	11-9151	Social and Community Service Managers	12	15	135	\$51,300
52.0101	Business/Commerce, General	13-2053	Insurance Underwriters	2	2	21	\$52,400
52.0101	Business/Commerce, General	13-1111	Management Analysts	10	11	111	\$65,700
52.0101	Business/Commerce, General	13-1051	Cost Estimators	8	8	77	\$48,300
52.0101	Business/Commerce, General	11-9199	Managers, All Other	37	41	517	\$70,100
52.0101	Business/Commerce, General	11-2022	Sales Managers	12	13	143	\$110,200
52.0101	Business/Commerce, General	11-3011	Administrative Services Managers	9	10	108	\$69,100
52.0101	Business/Commerce, General	11-1011	Chief Executives	18	17	263	\$140,100
52.0101	Business/Commerce, General	11-1021	General and Operations Managers	116	123	1,424	\$77,300
52.0101	Business/Commerce, General	11-9021	Construction Managers	24	27	343	\$65,100
52.0101	Business/Commerce, General	11-3071	Transportation, Storage, and Distribution Managers	9	10	113	\$76,700
46.0201	Carpentry/Carpenter	47-1011	First-line Supervisors of Construction Trades and Extraction Workers	38	42	391	\$52,500
46.0201	Carpentry/Carpenter	47-2031	Carpenters	83	86	909	\$37,800
40.0501	Chemistry, General	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
40.0501	Chemistry, General	11-9121	Natural Sciences Managers	1	1	15	\$90,100
40.0501	Chemistry, General	19-2031	Chemists	2	2	24	\$60,500
40.0501	Chemistry, General	25-1052	Chemistry Teachers, Postsecondary	1	1	14	\$64,800
19.0709	Child Care Provider/Assistant	39-9011	Childcare Workers	167	172	1,141	\$19,200
42.2801	Clinical Psychology	25-1066	Psychology Teachers, Postsecondary	9	10	109	\$89,000
42.2801	Clinical Psychology	19-3031	Clinical, Counseling, and School Psychologists	4	5	57	\$56,800
42.2801	Clinical Psychology	11-9199	Managers, All Other	37	41	517	\$70,100
42.2899	Clinical, Counseling and Applied Psychology, Other	11-9199	Managers, All Other	37	41	517	\$70,100

42.2899	Clinical, Counseling and Applied Psychology, Other	19-3039	Psychologists, All Other	1	1	8	\$80,800
42.2899	Clinical, Counseling and Applied Psychology, Other	25-1066	Psychology Teachers, Postsecondary	9	10	109	\$89,000
51.1004	Clinical/Medical Laboratory Technician	25-1071	Health Specialties Teachers, Postsecondary	8	10	95	\$45,600
51.1004	Clinical/Medical Laboratory Technician	29-2012	Medical and Clinical Laboratory Technicians	9	10	152	\$39,900
51.1504	Community Health Services/Liaison/Counseling	21-1094	Community Health Workers	6	7	45	\$27,600
51.1504	Community Health Services/Liaison/Counseling	21-1091	Health Educators	5	6	43	\$43,800
11.0101	Computer and Information Sciences, General	15-1111	Computer and Information Research Scientists	1	1	8	\$86,100
11.0101	Computer and Information Sciences, General	15-1121	Computer Systems Analysts	21	23	313	\$64,300
11.0101	Computer and Information Sciences, General	15-1141	Database Administrators	4	4	53	\$64,400
11.0101	Computer and Information Sciences, General	15-1142	Network and Computer Systems Administrators	10	10	152	\$52,400
11.0101	Computer and Information Sciences, General	15-1143	Computer Network Architects	5	6	85	\$51,300
11.0101	Computer and Information Sciences, General	15-1151	Computer User Support Specialists	24	28	320	\$45,300
11.0101	Computer and Information Sciences, General	15-1199	Computer Occupations, All Other	8	9	115	\$60,100
11.0101	Computer and Information Sciences, General	11-3021	Computer and Information Systems Managers	8	9	105	\$104,000
11.0101	Computer and Information Sciences, General Computer and Information Systems	25-1021	Computer Science Teachers, Postsecondary	2	2	26	\$78,900
11.1003	Security/Information Assurance Computer and Information Systems	11-3021	Computer and Information Systems Managers	8	9	105	\$104,000
11.1003	Security/Information Assurance Computer and Information Systems	15-1152	Computer Network Support Specialists	6	7	86	\$45,700
11.1003	Security/Information Assurance Computer and Information Systems	15-1143	Computer Network Architects	5	6	85	\$51,300
11.1003	Security/Information Assurance Computer and Information Systems	15-1142	Network and Computer Systems Administrators	10	10	152	\$52,400
11.1003	Security/Information Assurance Computer and Information Systems	15-1141	Database Administrators	4	4	53	\$64,400
11.1003	Security/Information Assurance	15-1122	Information Security Analysts	3	4	40	\$69,900
13.1321	Computer Teacher Education	25-1021	Computer Science Teachers, Postsecondary	2	2	26	\$78,900
13.1321	Computer Teacher Education	25-1081	Education Teachers, Postsecondary Middle School Teachers, Except Special and	6	7	80	\$55,400
13.1321	Computer Teacher Education	25-2022	Career/Technical Education Secondary School Teachers, Except Special and	39	39	555	\$48,900
13.1321	Computer Teacher Education	25-2031	Career/Technical Education	61	62	903	\$50,500
50.0906	Conducting	27-2041	Music Directors and Composers	6	6	58	\$33,700
50.0906	Conducting	25-1121	Art, Drama, and Music Teachers, Postsecondary	5	5	58	\$82,300
12.0401	Cosmetology/Cosmetologist, General	39-5012	Hairdressers, Hairstylists, and Cosmetologists	31	35	253	\$20,100
12.0401	Cosmetology/Cosmetologist, General	39-5091	Makeup Artists, Theatrical and Performance	0	0	1	\$65,400
12.0401	Cosmetology/Cosmetologist, General	39-5092	Manicurists and Pedicurists	5	6	43	\$26,300
12.0401	Cosmetology/Cosmetologist, General	39-5094	Skincare Specialists	3	4	27	\$35,100

42.2803	Counseling Psychology	25-1066	Psychology Teachers, Postsecondary	9	10	109	\$89,000
42.2803	Counseling Psychology	19-3031	Clinical, Counseling, and School Psychologists	4	5	57	\$56,800
42.2803	Counseling Psychology	11-9199	Managers, All Other	37	41	517	\$70,100
13.1101	Counselor Education/School Counseling and Guidance Services	21-1012	Educational, Guidance, School, and Vocational Counselors	23	24	214	\$54,100
43.0103	Criminal Justice/Law Enforcement Administration	11-9199	Managers, All Other	37	41	517	\$70,100
43.0103	Criminal Justice/Law Enforcement Administration	25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	1	1	12	\$72,300
43.0103	Criminal Justice/Law Enforcement Administration	33-9031	Gaming Surveillance Officers and Gaming Investigators	0	0	1	\$24,300
43.0103	Criminal Justice/Law Enforcement Administration	33-3052	Transit and Railroad Police	0	0	3	\$45,600
43.0103	Criminal Justice/Law Enforcement Administration	33-9021	Private Detectives and Investigators	2	2	23	\$37,800
43.0103	Criminal Justice/Law Enforcement Administration	33-9032	Security Guards	46	48	348	\$21,100
43.0103	Criminal Justice/Law Enforcement Administration	33-1012	First-Line Supervisors of Police and Detectives	5	5	76	\$55,500
43.0103	Criminal Justice/Law Enforcement Administration	33-3021	Detectives and Criminal Investigators	4	4	61	\$66,100
43.0103	Criminal Justice/Law Enforcement Administration	33-3051	Police and Sheriff's Patrol Officers	26	27	415	\$34,900
43.0104	Criminal Justice/Safety Studies	33-3051	Police and Sheriff's Patrol Officers	26	27	415	\$34,900
43.0104	Criminal Justice/Safety Studies	33-3021	Detectives and Criminal Investigators	4	4	61	\$66,100
43.0104	Criminal Justice/Safety Studies	33-1012	First-Line Supervisors of Police and Detectives	5	5	76	\$55,500
43.0104	Criminal Justice/Safety Studies	33-9032	Security Guards	46	48	348	\$21,100
43.0104	Criminal Justice/Safety Studies	33-9021	Private Detectives and Investigators	2	2	23	\$37,800
43.0104	Criminal Justice/Safety Studies	33-3052	Transit and Railroad Police	0	0	3	\$45,600
43.0104	Criminal Justice/Safety Studies	33-9031	Gaming Surveillance Officers and Gaming Investigators	0	0	1	\$24,300
43.0104	Criminal Justice/Safety Studies	33-1011	First-Line Supervisors of Correctional Officers	2	2	31	\$56,200
43.0104	Criminal Justice/Safety Studies	25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	1	1	12	\$72,300
12.0503	Culinary Arts/Chef Training	35-1011	Chefs and Head Cooks	5	6	43	\$49,400
12.0503	Culinary Arts/Chef Training	35-1012	First-Line Supervisors of Food Preparation and Serving Workers	118	121	831	\$25,000
12.0503	Culinary Arts/Chef Training	35-2013	Cooks, Private Household	7	7	52	\$34,500
12.0503	Culinary Arts/Chef Training	35-2014	Cooks, Restaurant	95	101	661	\$21,200
12.0503	Culinary Arts/Chef Training	35-2019	Cooks, All Other	1	1	8	\$28,900
13.0301	Curriculum and Instruction	25-9031	Instructional Coordinators	11	12	123	\$58,600
47.0605	Diesel Mechanics Technology/Technician	49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	1	0	8	\$30,800

47.0605	Diesel Mechanics Technology/Technician	49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	1	1	15	\$47,500
47.0605	Diesel Mechanics Technology/Technician	49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	26	27	290	\$31,500
47.0605	Diesel Mechanics Technology/Technician	49-3051	Motorboat Mechanics and Service Technicians	11	11	113	\$30,400
15.1301	Drafting and Design Technology/Technician, General	17-3011	Architectural and Civil Drafters	3	3	35	\$41,100
15.1301	Drafting and Design Technology/Technician, General	17-3012	Electrical and Electronics Drafters	1	1	11	\$47,200
15.1301	Drafting and Design Technology/Technician, General	17-3013	Mechanical Drafters	4	4	45	\$50,500
15.1301	Drafting and Design Technology/Technician, General	17-3019	Drafters, All Other	1	1	10	\$41,500
50.0501	Drama and Dramatics/Theatre Arts, General	25-1121	Art, Drama, and Music Teachers, Postsecondary	5	5	58	\$82,300
50.0501	Drama and Dramatics/Theatre Arts, General	27-2011	Actors	2	2	19	\$47,900
50.0501	Drama and Dramatics/Theatre Arts, General	27-2012	Producers and Directors	3	3	34	\$38,100
50.0501	Drama and Dramatics/Theatre Arts, General	27-2099	Entertainers and Performers, Sports and Related Workers, All Other	1	1	7	\$33,000
13.1210	Early Childhood Education and Teaching	25-2011	Preschool Teachers, Except Special Education	27	29	274	\$41,600
13.1210	Early Childhood Education and Teaching	25-2012	Kindergarten Teachers, Except Special Education	18	18	189	\$48,800
45.0601	Economics, General	25-1063	Economics Teachers, Postsecondary	1	1	10	\$100,300
45.0601	Economics, General	19-3011	Economists	0	0	6	\$59,800
45.0601	Economics, General	19-3022	Survey Researchers	0	0	3	\$44,300
45.0601	Economics, General	11-9199	Managers, All Other	37	41	517	\$70,100
13.0101	Education, General	11-9031	Education Administrators, Preschool and Childcare Center/Program	3	4	44	\$41,100
13.0101	Education, General	11-9032	Education Administrators, Elementary and Secondary School	23	23	304	\$75,700
13.0101	Education, General	11-9033	Education Administrators, Postsecondary	6	7	81	\$78,700
13.0101	Education, General	11-9039	Education Administrators, All Other	2	2	24	\$68,000
13.0101	Education, General	21-1012	Educational, Guidance, School, and Vocational Counselors	23	24	214	\$54,100
13.0101	Education, General	25-1081	Education Teachers, Postsecondary	6	7	80	\$55,400
13.0101	Education, General	25-2022	Middle School Teachers, Except Special and Career/Technical Education	39	39	555	\$48,900
13.0101	Education, General	25-2012	Kindergarten Teachers, Except Special Education	18	18	189	\$48,800
13.0101	Education, General	25-2011	Preschool Teachers, Except Special Education	27	29	274	\$41,600
13.0101	Education, General	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500

13.0101	Education, General	25-2023	Career/Technical Education Teachers, Middle School	1	1	13	\$50,400
13.0101	Education, General	25-2021	Elementary School Teachers, Except Special Education	96	97	1,374	\$49,300
13.0101	Education, General	25-2051	Special Education Teachers, Preschool	2	2	27	\$46,000
13.0101	Education, General	25-2032	Career/Technical Education Teachers, Secondary School	5	5	79	\$52,500
13.0101	Education, General	25-2052	Special Education Teachers, Kindergarten and Elementary School	14	15	205	\$49,900
13.0101	Education, General	25-2053	Special Education Teachers, Middle School	7	7	95	\$50,200
13.0101	Education, General	25-2054	Special Education Teachers, Secondary School	11	11	151	\$50,500
13.0101	Education, General	25-2059	Special Education Teachers, All Other	2	2	30	\$51,900
13.0101	Education, General	25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	3	3	33	\$37,600
13.0101	Education, General	25-3021	Self-Enrichment Education Teachers	15	16	129	\$29,800
13.0101	Education, General	25-3099	Teachers and Instructors, All Other	18	19	161	\$42,100
13.0101	Education, General	25-9031	Instructional Coordinators	11	12	123	\$58,600
13.0101	Education, General	25-9099	Education, Training, and Library Workers, All Other	16	17	181	\$30,800
13.0499	Education, General Educational Administration and Supervision, Other	11-9039	Education Administrators, All Other	2	2	24	\$68,000
15.0399	Electrical and Electronic Engineering Technologies/Technicians, Other	17-3023	Electrical and Electronic Engineering Technicians	5	5	58	\$49,400
15.0399	Electrical and Electronic Engineering Technologies/Technicians, Other	51-2022	Electrical and Electronic Equipment Assemblers	20	16	185	\$27,900
46.0302	Electrician	49-9097	Signal and Track Switch Repairers	1	1	16	\$61,600
46.0302	Electrician	49-2098	Security and Fire Alarm Systems Installers	5	5	43	\$36,200
46.0302	Electrician	47-2111	Electricians	42	44	381	\$42,400
46.0302	Electrician	47-1011	First-line Supervisors of Construction Trades and Extraction Workers	38	42	391	\$52,500
15.0499	Electromechanical and Instrumentation and Maintenance Technologies/Technicians, Other	17-3024	Electro-Mechanical Technicians	1	1	7	\$44,200
13.1202	Elementary Education and Teaching	25-2021	Elementary School Teachers, Except Special Education	96	97	1,374	\$49,300
51.0904	Emergency Medical Technology/Technician (EMT Paramedic)	25-1071	Health Specialties Teachers, Postsecondary	8	10	95	\$45,600
51.0904	Emergency Medical Technology/Technician (EMT Paramedic)	29-2041	Emergency Medical Technicians and Paramedics	25	30	402	\$28,000
15.0000	Engineering Technology, General	17-2199	Engineers, All Other	4	4	59	\$75,300
15.0000	Engineering Technology, General	11-9041	Architectural and Engineering Managers	4	4	53	\$94,000
14.0101	Engineering, General	11-9041	Architectural and Engineering Managers	4	4	53	\$94,000
14.0101	Engineering, General	17-2199	Engineers, All Other	4	4	59	\$75,300
14.0101	Engineering, General	25-1032	Engineering Teachers, Postsecondary	2	2	19	\$116,200

14.9999	Engineering, Other	25-1032	Engineering Teachers, Postsecondary	2	2	19	\$116,200
14.9999	Engineering, Other	17-2199	Engineers, All Other	4	4	59	\$75,300
14.9999	Engineering, Other	11-9041	Architectural and Engineering Managers	4	4	53	\$94,000
23.0101	English Language and Literature, General	25-1123	English Language and Literature Teachers, Postsecondary	5	5	59	\$52,800
23.0101	English Language and Literature, General	25-2021	Elementary School Teachers, Except Special Education	96	97	1,374	\$49,300
23.0101	English Language and Literature, General	25-2022	Middle School Teachers, Except Special and Career/Technical Education	39	39	555	\$48,900
23.0101	English Language and Literature, General	27-3043	Writers and Authors	3	4	40	\$23,200
23.0101	English Language and Literature, General	27-3041	Editors	5	5	60	\$34,900
23.0101	English Language and Literature, General	27-3042	Technical Writers	2	2	21	\$48,800
23.0101	English Language and Literature, General	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
23.0101	English Language and Literature, General	43-9081	Proofreaders and Copy Markers	1	1	9	\$34,900
13.1305	English/Language Arts Teacher Education	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
13.1305	English/Language Arts Teacher Education	25-2022	Middle School Teachers, Except Special and Career/Technical Education	39	39	555	\$48,900
13.1305	English/Language Arts Teacher Education	25-1123	English Language and Literature Teachers, Postsecondary	5	5	59	\$52,800
13.1305	English/Language Arts Teacher Education	25-1081	Education Teachers, Postsecondary	6	7	80	\$55,400
52.0701	Entrepreneurship/Entrepreneurial Studies	25-1011	Business Teachers, Postsecondary	4	5	54	\$93,700
52.0701	Entrepreneurship/Entrepreneurial Studies	11-1011	Chief Executives	18	17	263	\$140,100
52.0701	Entrepreneurship/Entrepreneurial Studies	11-1021	General and Operations Managers	116	123	1,424	\$77,300
52.0701	Entrepreneurship/Entrepreneurial Studies	11-9199	Managers, All Other	37	41	517	\$70,100
03.0104	Environmental Science	19-1031	Conservation Scientists	1	1	11	\$56,500
03.0104	Environmental Science	19-2041	Environmental Scientists and Specialists, Including Health	4	4	44	\$46,100
03.0104	Environmental Science	19-4091	Environmental Science and Protection Technicians, Including Health	2	2	13	\$41,900
03.0104	Environmental Science	25-1053	Environmental Science Teachers, Postsecondary	0	0	3	\$74,500
52.0402	Executive Assistant/Executive Secretary	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	172	156	1,700	\$27,300
52.0402	Executive Assistant/Executive Secretary	43-6011	Executive Secretaries and Executive Administrative Assistants	28	22	288	\$42,000
50.0702	Fine/Studio Arts, General	27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	1	1	7	\$27,100
50.0702	Fine/Studio Arts, General	27-1019	Artists and Related Workers, All Other	0	0	4	\$40,400
50.0702	Fine/Studio Arts, General	25-1121	Art, Drama, and Music Teachers, Postsecondary	5	5	58	\$82,300

43.0203	Fire Science/Fire-fighting	33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	2	2	26	\$52,400
43.0203	Fire Science/Fire-fighting	33-2011	Firefighters	9	9	130	\$27,200
43.0203	Fire Science/Fire-fighting	33-2021	Fire Inspectors and Investigators	1	1	6	\$42,100
43.0203	Fire Science/Fire-fighting	33-2022	Forest Fire Inspectors and Prevention Specialists	0	0	1	\$29,800
24.0102	General Studies	25-1199	Postsecondary Teachers, All Other	8	9	108	\$67,100
10.0301	Graphic Communications, General	51-5111	Prepress Technicians and Workers	2	2	23	\$36,900
50.0409	Graphic Design	27-1024	Graphic Designers	8	7	85	\$28,900
50.0409	Graphic Design	27-1019	Artists and Related Workers, All Other	0	0	4	\$40,400
50.0409	Graphic Design	27-1014	Multimedia Artists and Animators	1	2	18	\$49,400
50.0409	Graphic Design	27-1011	Art Directors	2	2	26	\$60,500
50.0409	Graphic Design	25-1121	Art, Drama, and Music Teachers, Postsecondary Recreation and Fitness Studies Teachers, Postsecondary	5	5	58	\$82,300
31.0501	Health and Physical Education/Fitness, General	25-1193	Postsecondary	1	1	9	\$60,300
31.0501	Health and Physical Education/Fitness, General	27-2021	Athletes and Sports Competitors	0	0	4	\$34,000
31.0501	Health and Physical Education/Fitness, General	27-2022	Coaches and Scouts	19	20	140	\$30,400
31.0501	Health and Physical Education/Fitness, General	39-9031	Fitness Trainers and Aerobics Instructors	16	17	93	\$30,900
51.0001	Health and Wellness, General	29-9091	Athletic Trainers	1	1	19	\$43,700
51.0001	Health and Wellness, General	21-1094	Community Health Workers	6	7	45	\$27,600
51.0001	Health and Wellness, General	21-1091	Health Educators	5	6	43	\$43,800
13.1307	Health Teacher Education	25-1081	Education Teachers, Postsecondary Middle School Teachers, Except Special and Career/Technical Education	6	7	80	\$55,400
13.1307	Health Teacher Education	25-2022	Secondary School Teachers, Except Special and Career/Technical Education	39	39	555	\$48,900
13.1307	Health Teacher Education	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
51.0701	Health/Health Care Administration/Management Heating, Air Conditioning, Ventilation and Refrigeration Maintenance	11-9111	Medical and Health Services Managers	24	28	293	\$105,900
47.0201	Technology/Technician	49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	19	21	189	\$36,700
54.0101	History, General	11-9199	Managers, All Other	37	41	517	\$70,100
54.0101	History, General	19-3093	Historians	0	0	1	\$44,600
54.0101	History, General	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
54.0101	History, General	25-1125	History Teachers, Postsecondary	1	1	16	\$73,800
44.0000	Human Services, General	21-1093	Social and Human Service Assistants	38	44	305	\$26,100
44.0000	Human Services, General	21-1099	Community and Social Service Specialists, All Other	9	10	72	\$38,200
44.0000	Human Services, General	11-9151	Social and Community Service Managers	12	15	135	\$51,300
24.0103	Humanities/Humanistic Studies	25-1199	Postsecondary Teachers, All Other	8	9	108	\$67,100

47.0303	Industrial Mechanics and Maintenance Technology	49-9041	Industrial Machinery Mechanics	38	40	432	\$40,300
47.0303	Industrial Mechanics and Maintenance Technology	49-9043	Maintenance Workers, Machinery	9	9	87	\$39,000
47.0303	Industrial Mechanics and Maintenance Technology	49-9044	Millwrights	4	4	47	\$45,800
47.0303	Industrial Mechanics and Maintenance Technology	49-9045	Refractory Materials Repairers, Except Brickmasons	0	0	1	\$36,300
47.0303	Industrial Mechanics and Maintenance Technology	49-9081	Wind Turbine Service Technicians	0	1	4	\$43,900
47.0303	Industrial Mechanics and Maintenance Technology	47-4021	Elevator Installers and Repairers	2	3	21	\$51,400
09.0401	Journalism	27-3043	Writers and Authors	3	4	40	\$23,200
09.0401	Journalism	27-3021	Broadcast News Analysts	0	0	2	\$48,600
09.0401	Journalism	27-3022	Reporters and Correspondents	3	2	40	\$28,900
09.0401	Journalism	27-3041	Editors	5	5	60	\$34,900
09.0401	Journalism	25-1122	Communications Teachers, Postsecondary	2	2	26	\$59,700
13.1203	Junior High/Intermediate/Middle School Education and Teaching	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
13.1203	Junior High/Intermediate/Middle School Education and Teaching	25-2022	Middle School Teachers, Except Special and Career/Technical Education	39	39	555	\$48,900
13.1209	Kindergarten/Preschool Education and Teaching	25-2011	Preschool Teachers, Except Special Education	27	29	274	\$41,600
13.1209	Kindergarten/Preschool Education and Teaching	25-2012	Kindergarten Teachers, Except Special Education	18	18	189	\$48,800
31.0505	Kinesiology and Exercise Science	29-1128	Exercise Physiologists	1	1	11	\$47,000
31.0505	Kinesiology and Exercise Science	29-9091	Athletic Trainers	1	1	19	\$43,700
31.0505	Kinesiology and Exercise Science	39-9031	Fitness Trainers and Aerobics Instructors	16	17	93	\$30,900
24.0101	Liberal Arts and Sciences/Liberal Studies	25-1199	Postsecondary Teachers, All Other	8	9	108	\$67,100
51.3901	Licensed Practical/Vocational Nurse Training	29-2061	Licensed Practical and Licensed Vocational Nurses	58	63	816	\$35,900
48.0503	Machine Shop Technology/Assistant	51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	2	2	24	\$28,900
48.0503	Machine Shop Technology/Assistant	51-4192	Layout Workers, Metal and Plastic	1	1	7	\$32,400
48.0503	Machine Shop Technology/Assistant	51-4194	Tool Grinders, Filers, and Sharpeners	3	3	24	\$38,700
48.0503	Machine Shop Technology/Assistant	51-4199	Metal Workers and Plastic Workers, All Other	3	3	35	\$24,200
48.0503	Machine Shop Technology/Assistant	51-2041	Structural Metal Fabricators and Fitters	8	6	78	\$30,700
48.0503	Machine Shop Technology/Assistant	51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	12	12	122	\$40,200
48.0503	Machine Shop Technology/Assistant	51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	3	2	27	\$32,200
48.0503	Machine Shop Technology/Assistant	51-4041	Machinists	42	42	421	\$36,400

48.0503	Machine Shop Technology/Assistant	51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	14	13	136	\$40,900
52.1201	Management Information Systems, General	11-3021	Computer and Information Systems Managers	8	9	105	\$104,000
52.1201	Management Information Systems, General	15-1131	Computer Programmers	3	2	44	\$62,300
52.1401	Marketing/Marketing Management, General	11-2022	Sales Managers	12	13	143	\$110,200
52.1401	Marketing/Marketing Management, General	11-2011	Advertising and Promotions Managers	1	1	11	\$53,400
52.1401	Marketing/Marketing Management, General	11-2021	Marketing Managers	5	5	57	\$84,000
52.1401	Marketing/Marketing Management, General	13-1161	Market Research Analysts and Marketing Specialists	11	14	110	\$40,600
52.1401	Marketing/Marketing Management, General	25-1011	Business Teachers, Postsecondary	4	5	54	\$93,700
46.0101	Mason/Masonry	47-2044	Tile and Marble Setters	5	5	55	\$36,700
46.0101	Mason/Masonry	47-1011	First-line Supervisors of Construction Trades and Extraction Workers	38	42	391	\$52,500
46.0101	Mason/Masonry	47-2021	Brickmasons and Blockmasons	8	9	94	\$43,400
46.0101	Mason/Masonry	47-2022	Stonemasons	2	2	26	\$31,400
09.0102	Mass Communication/Media Studies	27-3043	Writers and Authors	3	4	40	\$23,200
09.0102	Mass Communication/Media Studies	27-3041	Editors	5	5	60	\$34,900
09.0102	Mass Communication/Media Studies	27-3022	Reporters and Correspondents	3	2	40	\$28,900
09.0102	Mass Communication/Media Studies	25-1122	Communications Teachers, Postsecondary	2	2	26	\$59,700
13.1311	Mathematics Teacher Education	25-2021	Elementary School Teachers, Except Special Education	96	97	1,374	\$49,300
13.1311	Mathematics Teacher Education	25-2022	Middle School Teachers, Except Special and Career/Technical Education	39	39	555	\$48,900
13.1311	Mathematics Teacher Education	25-1022	Mathematical Science Teachers, Postsecondary	4	4	49	\$67,400
13.1311	Mathematics Teacher Education	25-1081	Education Teachers, Postsecondary	6	7	80	\$55,400
13.1311	Mathematics Teacher Education	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
27.0101	Mathematics, General	25-1022	Mathematical Science Teachers, Postsecondary	4	4	49	\$67,400
27.0101	Mathematics, General	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
27.0101	Mathematics, General	11-9121	Natural Sciences Managers	1	1	15	\$90,100
27.0101	Mathematics, General	15-2011	Actuaries	0	0	4	\$83,800
27.0101	Mathematics, General	15-2021	Mathematicians	0	0	1	\$77,400
27.0101	Mathematics, General	15-2041	Statisticians	1	2	15	\$64,300
27.0101	Mathematics, General	15-2099	Mathematical Science Occupations, All Other	0	0	1	\$57,700
51.0716	Medical Administrative/Executive Assistant and Medical Secretary	31-9092	Medical Assistants	62	75	541	\$25,900
51.0716	Medical Administrative/Executive Assistant and Medical Secretary	43-6013	Medical Secretaries	47	54	416	\$25,500
51.0801	Medical/Clinical Assistant	31-9092	Medical Assistants	62	75	541	\$25,900

39.0301	Missions/Missionary Studies and Missiology	25-1126	Philosophy and Religion Teachers, Postsecondary	2	2	25	\$65,300
39.0301	Missions/Missionary Studies and Missiology	21-2021	Directors, Religious Activities and Education	11	11	89	\$62,200
50.0912	Music Pedagogy	25-1121	Art, Drama, and Music Teachers, Postsecondary	5	5	58	\$82,300
50.0912	Music Pedagogy	27-2042	Musicians and Singers	9	9	97	\$25,900
50.0903	Music Performance, General	27-2042	Musicians and Singers	9	9	97	\$25,900
50.0903	Music Performance, General	27-2041	Music Directors and Composers	6	6	58	\$33,700
50.0903	Music Performance, General	25-1121	Art, Drama, and Music Teachers, Postsecondary	5	5	58	\$82,300
13.1312	Music Teacher Education	25-1121	Art, Drama, and Music Teachers, Postsecondary	5	5	58	\$82,300
13.1312	Music Teacher Education	25-1081	Education Teachers, Postsecondary	6	7	80	\$55,400
13.1312	Music Teacher Education	25-2021	Elementary School Teachers, Except Special Education	96	97	1,374	\$49,300
13.1312	Music Teacher Education	25-2022	Middle School Teachers, Except Special and Career/Technical Education	39	39	555	\$48,900
13.1312	Music Teacher Education	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
50.0901	Music, General	27-2042	Musicians and Singers	9	9	97	\$25,900
50.0901	Music, General	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
52.0204	Office Management and Supervision	11-3011	Administrative Services Managers	9	10	108	\$69,100
52.0204	Office Management and Supervision	43-1011	First-Line Supervisors of Office and Administrative Support Workers	112	114	1,147	\$44,000
52.1003	Organizational Behavior Studies	13-1071	Human Resources Specialists	28	30	288	\$50,200
52.1003	Organizational Behavior Studies	25-1011	Business Teachers, Postsecondary	4	5	54	\$93,700
52.0213	Organizational Leadership	25-1011	Business Teachers, Postsecondary	4	5	54	\$93,700
52.0213	Organizational Leadership	13-1111	Management Analysts	10	11	111	\$65,700
15.0903	Petroleum Technology/Technician	19-4041	Geological and Petroleum Technicians	1	1	7	\$61,500
51.0805	Pharmacy Technician/Assistant	25-1071	Health Specialties Teachers, Postsecondary	8	10	95	\$45,600
51.0805	Pharmacy Technician/Assistant	31-9095	Pharmacy Aides	5	5	43	\$18,600
51.0805	Pharmacy Technician/Assistant	29-2052	Pharmacy Technicians	41	45	523	\$26,500
38.9999	Philosophy and Religious Studies, Other	25-1126	Philosophy and Religion Teachers, Postsecondary	2	2	25	\$65,300
13.1314	Physical Education Teaching and Coaching	25-1193	Recreation and Fitness Studies Teachers, Postsecondary	1	1	9	\$60,300
13.1314	Physical Education Teaching and Coaching	25-2021	Elementary School Teachers, Except Special Education	96	97	1,374	\$49,300
13.1314	Physical Education Teaching and Coaching	25-2022	Middle School Teachers, Except Special and Career/Technical Education	39	39	555	\$48,900
13.1314	Physical Education Teaching and Coaching	25-1081	Education Teachers, Postsecondary	6	7	80	\$55,400
13.1314	Physical Education Teaching and Coaching	39-9031	Fitness Trainers and Aerobics Instructors	16	17	93	\$30,900

13.1314	Physical Education Teaching and Coaching	27-2022	Coaches and Scouts	19	20	140	\$30,400
			Secondary School Teachers, Except Special and				
13.1314	Physical Education Teaching and Coaching	25-2031	Career/Technical Education	61	62	903	\$50,500
51.0806	Physical Therapy Technician/Assistant	31-2021	Physical Therapist Assistants	12	14	93	\$51,200
51.0806	Physical Therapy Technician/Assistant	31-2022	Physical Therapist Aides	5	6	42	\$22,000
51.0912	Physician Assistant	29-1071	Physician Assistants	2	4	40	\$107,800
51.0912	Physician Assistant	25-1071	Health Specialties Teachers, Postsecondary	8	10	95	\$45,600
40.0801	Physics, General	25-1054	Physics Teachers, Postsecondary	1	1	9	\$79,800
40.0801	Physics, General	19-2012	Physicists	0	1	6	\$89,300
40.0801	Physics, General	11-9121	Natural Sciences Managers	1	1	15	\$90,100
			Secondary School Teachers, Except Special and				
40.0801	Physics, General	25-2031	Career/Technical Education	61	62	903	\$50,500
42.2706	Physiological Psychology/Psychobiology	11-9199	Managers, All Other	37	41	517	\$70,100
42.2706	Physiological Psychology/Psychobiology	19-3039	Psychologists, All Other	1	1	8	\$80,800
42.2706	Physiological Psychology/Psychobiology	25-1066	Psychology Teachers, Postsecondary	9	10	109	\$89,000
45.1001	Political Science and Government, General	25-1065	Political Science Teachers, Postsecondary	1	1	12	\$86,700
45.1001	Political Science and Government, General	19-3094	Political Scientists	0	0	2	\$82,500
45.1001	Political Science and Government, General	11-9199	Managers, All Other	37	41	517	\$70,100
42.0101	Psychology, General	11-9199	Managers, All Other	37	41	517	\$70,100
42.0101	Psychology, General	19-3031	Clinical, Counseling, and School Psychologists	4	5	57	\$56,800
			Substance Abuse and Behavioral Disorder				
42.0101	Psychology, General	21-1011	Counselors	15	18	137	\$37,500
			Educational, Guidance, School, and Vocational				
42.0101	Psychology, General	21-1012	Counselors	23	24	214	\$54,100
42.0101	Psychology, General	21-1013	Marriage and Family Therapists	5	6	43	\$37,100
			Mental Health and Substance Abuse Social				
42.0101	Psychology, General	21-1023	Workers	11	13	102	\$34,500
42.0101	Psychology, General	21-1029	Social Workers, All Other	4	4	37	\$50,600
42.0101	Psychology, General	21-1014	Mental Health Counselors	18	22	162	\$39,600
42.0101	Psychology, General	21-1015	Rehabilitation Counselors	7	8	67	\$34,100
42.0101	Psychology, General	21-1019	Counselors, All Other	3	3	28	\$40,100
42.0101	Psychology, General	21-1021	Child, Family, and School Social Workers	57	65	531	\$36,600
42.0101	Psychology, General	21-1022	Healthcare Social Workers	10	12	98	\$42,800
42.0101	Psychology, General	19-3032	Industrial-Organizational Psychologists	0	0	1	\$76,900
42.0101	Psychology, General	19-3039	Psychologists, All Other	1	1	8	\$80,800
42.0101	Psychology, General	25-1066	Psychology Teachers, Postsecondary	9	10	109	\$89,000
09.0902	Public Relations/Image Management	25-1122	Communications Teachers, Postsecondary	2	2	26	\$59,700
09.0902	Public Relations/Image Management	11-2031	Public Relations and Fundraising Managers	3	3	32	\$74,500
09.0902	Public Relations/Image Management	11-2011	Advertising and Promotions Managers	1	1	11	\$53,400
09.0902	Public Relations/Image Management	27-3031	Public Relations Specialists	8	8	81	\$35,100
09.0701	Radio and Television	27-3021	Broadcast News Analysts	0	0	2	\$48,600
09.0701	Radio and Television	27-3011	Radio and Television Announcers	6	4	69	\$23,500
09.0701	Radio and Television	27-2012	Producers and Directors	3	3	34	\$38,100

09.0701	Radio and Television	27-4032	Film and Video Editors	0	0	4	\$36,900
09.0701	Radio and Television	25-1122	Communications Teachers, Postsecondary	2	2	26	\$59,700
51.0911	Radiologic Technology/Science - Radiographer	29-2034	Radiologic Technologists	12	14	237	\$47,700
13.1315	Reading Teacher Education	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
13.1315	Reading Teacher Education	25-2021	Elementary School Teachers, Except Special Education	96	97	1,374	\$49,300
13.1315	Reading Teacher Education	25-2022	Middle School Teachers, Except Special and Career/Technical Education	39	39	555	\$48,900
13.1315	Reading Teacher Education	25-1081	Education Teachers, Postsecondary	6	7	80	\$55,400
51.3801	Registered Nursing/Registered Nurse	25-1072	Nursing Instructors and Teachers, Postsecondary	4	5	52	\$60,300
51.3801	Registered Nursing/Registered Nurse	29-1141	Registered Nurses	146	172	2,819	\$55,900
38.0201	Religion/Religious Studies	25-1126	Philosophy and Religion Teachers, Postsecondary	2	2	25	\$65,300
39.0401	Religious Education	25-1126	Philosophy and Religion Teachers, Postsecondary	2	2	25	\$65,300
39.0401	Religious Education	21-2021	Directors, Religious Activities and Education	11	11	89	\$62,200
39.0501	Religious/Sacred Music	25-1126	Philosophy and Religion Teachers, Postsecondary	2	2	25	\$65,300
39.0501	Religious/Sacred Music	27-2041	Music Directors and Composers	6	6	58	\$33,700
51.0908	Respiratory Care Therapy/Therapist	29-1126	Respiratory Therapists	9	11	175	\$44,100
51.0908	Respiratory Care Therapy/Therapist	29-2054	Respiratory Therapy Technicians	1	0	13	\$37,900
51.0908	Respiratory Care Therapy/Therapist	25-1071	Health Specialties Teachers, Postsecondary	8	10	95	\$45,600
13.1205	Secondary Education and Teaching	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
13.1205	Secondary Education and Teaching	25-2022	Middle School Teachers, Except Special and Career/Technical Education	39	39	555	\$48,900
13.1317	Social Science Teacher Education	25-2022	Middle School Teachers, Except Special and Career/Technical Education	39	39	555	\$48,900
13.1317	Social Science Teacher Education	25-1069	Social Sciences Teachers, Postsecondary, All Other	1	1	8	\$71,900
13.1317	Social Science Teacher Education	25-1067	Sociology Teachers, Postsecondary	1	1	10	\$69,300
13.1317	Social Science Teacher Education	25-1081	Education Teachers, Postsecondary	6	7	80	\$55,400
13.1317	Social Science Teacher Education	25-1066	Psychology Teachers, Postsecondary	9	10	109	\$89,000
13.1317	Social Science Teacher Education	25-1063	Economics Teachers, Postsecondary	1	1	10	\$100,300
13.1317	Social Science Teacher Education	25-1065	Political Science Teachers, Postsecondary	1	1	12	\$86,700
13.1317	Social Science Teacher Education	25-1061	Anthropology and Archeology Teachers, Postsecondary	0	0	3	\$71,500
13.1317	Social Science Teacher Education	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
45.0101	Social Sciences, General	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500

45.0101	Social Sciences, General	25-1069	Social Sciences Teachers, Postsecondary, All Other	1	1	8	\$71,900
45.0101	Social Sciences, General	11-9199	Managers, All Other	37	41	517	\$70,100
45.0101	Social Sciences, General	19-4061	Social Science Research Assistants	1	1	8	\$36,300
45.0101	Social Sciences, General	19-3099	Social Scientists and Related Workers, All Other	1	1	14	\$60,500
13.1318	Social Studies Teacher Education	25-1081	Education Teachers, Postsecondary	6	7	80	\$55,400
13.1318	Social Studies Teacher Education	25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	0	1	6	\$84,800
13.1318	Social Studies Teacher Education	25-2022	Middle School Teachers, Except Special and Career/Technical Education	39	39	555	\$48,900
13.1318	Social Studies Teacher Education	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
44.0701	Social Work	25-1113	Social Work Teachers, Postsecondary	1	1	7	\$62,900
44.0701	Social Work	21-1013	Marriage and Family Therapists	5	6	43	\$37,100
44.0701	Social Work	21-1022	Healthcare Social Workers	10	12	98	\$42,800
44.0701	Social Work	21-1021	Child, Family, and School Social Workers	57	65	531	\$36,600
44.0701	Social Work	21-1019	Counselors, All Other	3	3	28	\$40,100
44.0701	Social Work	21-1029	Social Workers, All Other	4	4	37	\$50,600
44.0701	Social Work	21-1023	Mental Health and Substance Abuse Social Workers	11	13	102	\$34,500
44.0701	Social Work	21-1092	Probation Officers and Correctional Treatment Specialists	5	5	55	\$35,200
44.0701	Social Work	11-9151	Social and Community Service Managers	12	15	135	\$51,300
45.1101	Sociology	11-9199	Managers, All Other	37	41	517	\$70,100
45.1101	Sociology	19-3041	Sociologists	0	0	1	\$63,800
45.1101	Sociology	25-1067	Sociology Teachers, Postsecondary	1	1	10	\$69,300
16.0905	Spanish Language and Literature	25-1124	Foreign Language and Literature Teachers, Postsecondary	1	2	19	\$58,900
16.0905	Spanish Language and Literature	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
16.0905	Spanish Language and Literature	27-3091	Interpreters and Translators	3	4	35	\$41,100
13.1330	Spanish Language Teacher Education	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
13.1330	Spanish Language Teacher Education	25-1124	Foreign Language and Literature Teachers, Postsecondary	1	2	19	\$58,900
13.1330	Spanish Language Teacher Education	25-2022	Middle School Teachers, Except Special and Career/Technical Education	39	39	555	\$48,900
13.1330	Spanish Language Teacher Education	25-1081	Education Teachers, Postsecondary	6	7	80	\$55,400
13.1001	Special Education and Teaching, General	25-2051	Special Education Teachers, Preschool	2	2	27	\$46,000
13.1001	Special Education and Teaching, General	25-2059	Special Education Teachers, All Other	2	2	30	\$51,900
13.1001	Special Education and Teaching, General	25-2054	Special Education Teachers, Secondary School	11	11	151	\$50,500
13.1001	Special Education and Teaching, General	25-2053	Special Education Teachers, Middle School	7	7	95	\$50,200

13.1001	Special Education and Teaching, General	25-2052	Special Education Teachers, Kindergarten and Elementary School	14	15	205	\$49,900
09.0101	Speech Communication and Rhetoric	27-3012	Public Address System and Other Announcers	0	0	3	\$26,600
09.0101	Speech Communication and Rhetoric	27-3011	Radio and Television Announcers	6	4	69	\$23,500
09.0101	Speech Communication and Rhetoric	27-3031	Public Relations Specialists	8	8	81	\$35,100
09.0101	Speech Communication and Rhetoric	27-3043	Writers and Authors	3	4	40	\$23,200
09.0101	Speech Communication and Rhetoric	25-1122	Communications Teachers, Postsecondary	2	2	26	\$59,700
31.0504	Sport and Fitness Administration/Management	25-1193	Recreation and Fitness Studies Teachers, Postsecondary	1	1	9	\$60,300
31.0504	Sport and Fitness Administration/Management	39-9031	Fitness Trainers and Aerobics Instructors	16	17	93	\$30,900
31.0504	Sport and Fitness Administration/Management	27-2022	Coaches and Scouts	19	20	140	\$30,400
51.0909	Surgical Technology/Technologist	29-2055	Surgical Technologists	9	9	113	\$40,100
51.0909	Surgical Technology/Technologist	25-1071	Health Specialties Teachers, Postsecondary	8	10	95	\$45,600
13.1501	Teacher Assistant/Aide	25-9041	Teacher Assistants	123	126	1,215	\$23,300
13.1399	Teacher Education and Professional Development, Specific Subject Areas, Other	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
13.1399	Teacher Education and Professional Development, Specific Subject Areas, Other	25-2021	Elementary School Teachers, Except Special Education	96	97	1,374	\$49,300
13.1399	Teacher Education and Professional Development, Specific Subject Areas, Other	25-2022	Middle School Teachers, Except Special and Career/Technical Education	39	39	555	\$48,900
13.1401	Teaching English as a Second or Foreign Language/ESL Language Instructor	25-2022	Middle School Teachers, Except Special and Career/Technical Education	39	39	555	\$48,900
13.1401	Teaching English as a Second or Foreign Language/ESL Language Instructor	25-2012	Kindergarten Teachers, Except Special Education	18	18	189	\$48,800
13.1401	Teaching English as a Second or Foreign Language/ESL Language Instructor	25-2021	Elementary School Teachers, Except Special Education	96	97	1,374	\$49,300
13.1401	Teaching English as a Second or Foreign Language/ESL Language Instructor	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	61	62	903	\$50,500
13.1401	Teaching English as a Second or Foreign Language/ESL Language Instructor	25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	3	3	33	\$37,600
39.0601	Theology/Theological Studies	25-1126	Philosophy and Religion Teachers, Postsecondary	2	2	25	\$65,300
39.0601	Theology/Theological Studies	21-2011	Clergy	15	15	135	\$43,700
50.0101	Visual and Performing Arts, General	25-1121	Art, Drama, and Music Teachers, Postsecondary	5	5	58	\$82,300
50.0101	Visual and Performing Arts, General	27-1012	Craft Artists	0	0	4	\$24,400
50.0101	Visual and Performing Arts, General	27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	1	1	7	\$27,100
50.0101	Visual and Performing Arts, General	27-1019	Artists and Related Workers, All Other	0	0	4	\$40,400
50.0101	Visual and Performing Arts, General	27-4021	Photographers	7	4	98	\$26,600
48.0508	Welding Technology/Welder	51-4121	Welders, Cutters, Solderers, and Brazers	55	56	514	\$30,200
48.0508	Welding Technology/Welder	51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	10	9	104	\$32,800

Source: JobsEQ®

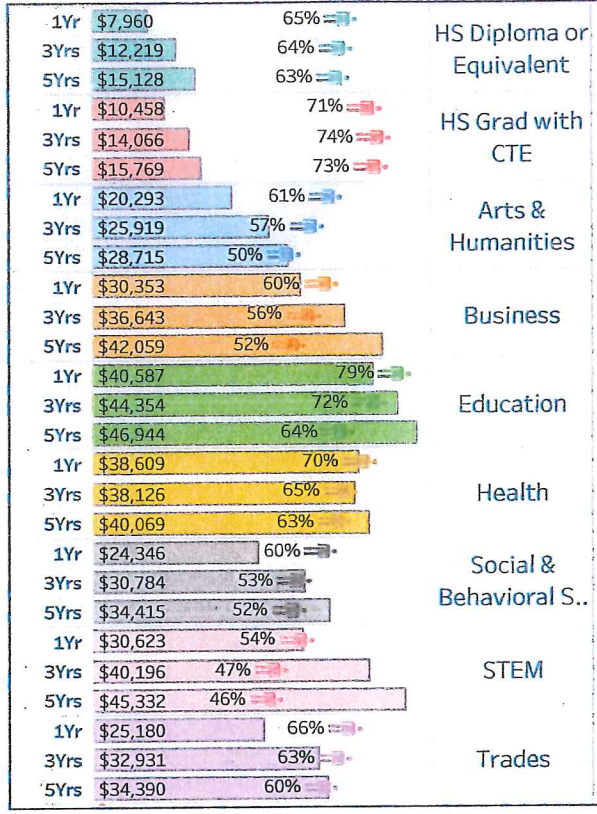
Data as of the 2015-2016 academic year, related occupation data as of 2017Q3 except wages which are as of 2016.

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New Kentucky Future Skills Report - COMING SOON!

Median Wage and Percent Employed
in Kentucky by Major in Federal Fiscal
Year 2015

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QUALITY OF PLACE



Industrial Development Authority

WORKFORCE ANALYSIS

Quality of Place – Russell County

Much has been written about the importance of quality of life to the site selection process. Communities throughout the nation have positioned themselves by touting their advantages in this regard – good schools, safe streets, pleasant weather. All agree these factors are important. The issue is the narrowness of the focus. Quality of life presents a “one-size-fits-all” approach, suggesting that everyone thrives in the same environment and is attracted to the same amenities. It assumes that current residents’ view of what makes a community would be shared by all.

By contrast, quality of place considers what is attractive to a range of residents, both old and new. The idea of quality of place accommodates growth and recognizes the benefits of change. It recognizes that one person’s “good place to raise a family” might translate into another’s “there’s nothing to do in this town.” Quality of place is about providing options, not just for current residents but for those who will be residents in the future.

Creating a quality place is a critical factor in the attraction and retention of talent. Economic development activities or “jobs” are not independent of the people who hold them. Workers need places to live, amenities, and education opportunities. Quality housing, good restaurants, and good schools are not luxuries for an educated workforce – they are viewed as necessities. A healthy retail sector has become an amenity in the retention and recruitment of workers.

Tourism is another area where quality of place can be a factor in success as regions compete to attract visitors. Many of the areas stated above have been addressed in other parts of this report. Russell County is blessed to have a great tourism impact on its economy. For 2016 tourism generated \$36,712,573 in direct tourist spending and \$57,712,165 in total tourism spending. As a result of the taxes generated by tourist spending in Russell County, each of the 7,050 households in the county paid \$857 less in local and state taxes.

Lake Cumberland is a valuable asset to Russell County as it not only draw tourist and visitor to the county but also provides great venues for housing and recreational activities for local residents.

Russell County, KY

2016 Tourism Economic Fact Sheet

2016 Tourist Activity in Russell County

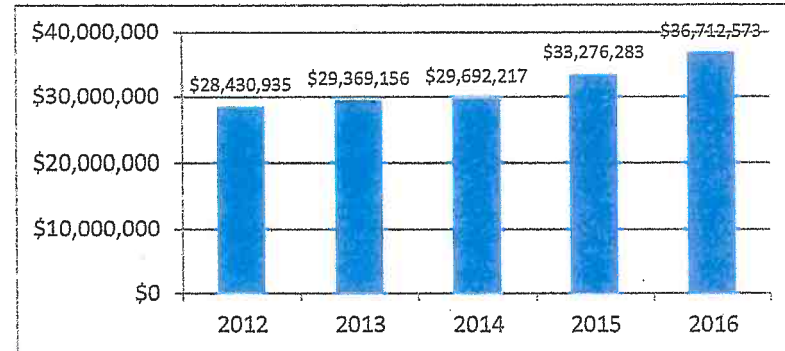
- Generated **\$36,712,573** in direct tourist spending
 - Generated **\$57,712,165** in total tourist spending
 - Produced **\$12,944,032** in worker income
 - Created **\$777,247** in local tax revenues
 - Created **\$5,264,854** in state tax revenue
 - Supported **2,018** jobs
 - 2016 tourist spending increased by **10.3%** over 2015
- Source: [1], [2]

On an Average Day in 2016

Visitors to Russell County:

- Spent **\$100,582**
 - Generated **\$16,554** in combined state & local tax revenues
 - Created **\$2,129** in local tax revenues
 - Created **\$14,424** in state tax revenues
 - Generated **\$35,463** in worker paychecks
- Source: [1], [2]

Five-Year Trend of Tourist Spending in Russell County



Source: [1]

2016 Tourism Tax Relief on Households

As a result of taxes generated by tourist spending in Russell County...

In 2016, each of the **7,050** Russell County households paid **\$857** less in local and state taxes. In other words, if tourism did not exist, each household would have paid **\$857 more** in state and local taxes in 2016 to replace the taxes generated by tourist spending.

Source: [1], [2], [3]



Sources:

- [1] "Economic Impact of Kentucky's Travel and Tourism Industry." (2012-2016) Prepared for the Kentucky Tourism, Arts and Heritage Cabinet by Certec, Inc., Versailles, KY.
- [2] Additional analysis by Laura Negron, Kentucky Tourism, Arts and Heritage Cabinet.
- [3] U.S. Census Bureau, 2015; www.census.gov



General Kentucky Quality of Life Information
<http://www.thinkkentucky.com/kyedc/qualityoflife.aspx>
 Median Home Price (2015): Russell County - \$69,000 for 106 homes

Source: KY Department of Revenue. Data based on sales for last six months of year indicated.

Climate

Temperature

Normal (30-year record)	59.1 degrees
Average Annual, 2015	60.4 degrees
Record Highest, July 2012 (74-year record)	105 degrees
Record Lowest, January 1985 (74-year record)	-24 degrees
Normal Heating Degree Days (30-year record)	3,637
Normal Cooling Degree Days (30-year record)	1,526

Precipitation

Normal (30-year record)	47.86 inches
Mean Annual Snowfall (30-year record)	6.5 inches
Total Precipitation, 2015	51.66 inches
Mean Number of Days Precipitation (0.01 inch or more) (30-year record)	125.2
Mean Number of Days Thunderstorms (68-year record)	48.7

Prevailing Winds

Southwest

Relative Humidity (30-year record)

1 a.m.	82 percent
7 a.m.	87 percent
1 p.m.	59 percent
7 p.m.	64 percent

Note: Heating degree day totals are the sums of positive departures of average daily temperature from 65 degrees F. Cooling degree day totals are the sum of negative departures of average daily temperature from 65 degrees F.
 Source: U.S. Department of Commerce, National Climatic Data Center, [Local Climatological Data](#), 2015.
 Station of record: McGhee Tyson Airport, Knoxville, TN.

Public School District Enrollments, 2015-2016

	Total Enrollment	Pupil To Teacher Ratio
Russell County Schools	2,926	15.4

Source: Kentucky Department of Education, Office of Assessment and Accountability.





State Property Tax Rates Per-\$100 Valuation, 2016

Selected Class of Property	State Rate	Local Taxation Permitted
Real Estate	\$0.1220	Yes
Manufacturing Machinery	\$0.1500	No
Pollution Control Equipment	\$0.1500	No
Inventories:		
Raw Materials	\$0.0500	No
Goods in Process	\$0.0500	No
Finished Goods	\$0.0500	Yes
Goods-In-Transit	Exempt	Limited
Motor Vehicles	\$0.4500	Yes
Other Tangible Personal Property	\$0.4500	Yes

Source: Kentucky Department of Revenue.

Local Property Tax Rates Per \$100 Valuation, 2016

Taxing Jurisdiction	Property Taxes Per \$100 Valuation		
	Real Estate	Tangibles	Motor Vehicles
County			
Russell	\$0.3403	\$0.4280	\$0.3696
City			
Jamestown	\$0.1880	\$0.2430	\$0.2550
Russell Springs	\$0.1700	\$0.1700	\$0.1700
School District			
Russell County Schools	\$0.5020	\$0.5040	\$0.5220

Source: Kentucky Revenue Cabinet.

Local Occupational License Taxes, 2016

Cities, counties and school districts may levy an occupational license tax on the net profits of businesses and/or on the salaries and wages of employees earned in the jurisdiction. Rates can vary between the two types of occupational license taxes. Occupational license taxes may be levied on businesses as either a flat rate schedule or as a percentage of apportioned net profits or gross receipts. Where both the city and county levy an occupational license tax, a credit may be given, at the option of the local governments, for the amount paid to the city against the occupational license tax of the county. (Consult local jurisdictions for further details.)

Taxing Jurisdiction	Tax Rate on Salaries/Wages	Tax Rate on Net Profits/Receipts
County		
Russell	0.75%	0.75% (on net profits)
City		
Jamestown	1.00% (Max tax \$400)	No tax
Russell Springs	1.00%	No tax
School District		
Russell County Schools	No tax	No tax

Source: Occupational Taxes Spreadsheet - Kentucky Secretary of State, Local Tax Listing - Kentucky Personnel Cabinet



Utilities Providing Service In Russell County

Electric

East Kentucky Power Cooperative - 859-744-4812
 South Kentucky RECC - 606-678-4121
 Taylor County RECC - 270-465-4101
 Kentucky Utilities (a PPL company) - 800-383-5582

Natural Gas

Service Unavailable

Sewer

Treatment Information (gallons per day)

Jamestown Utilities - 270-343-4594

Russell County Regional Wastewater Treatment Plant

Russell Springs Water & Sewer - 270-866-3981

*Jamestown Utilities

Treatment information provided by Division of Water, 502-564-3410

*Provider of sewage treatment services.

Water

System Information (gallons per day)

Jamestown Utilities - 270-343-4594

Russell Springs Water & Sewer - 270-866-3981

System information provided by Division of Water, 502-564-3410

Capacity	Avg. Flow	Excess
3,600,000	825,000	2,775,000
3,600,000	825,000	2,775,000

Capacity	Avg. Use	Excess
6,000,000	2,366,075	3,633,925
N/A	N/A	N/A

ECONOMIC OVERVIEW



Industrial Development Authority

WORKFORCE ANALYSIS

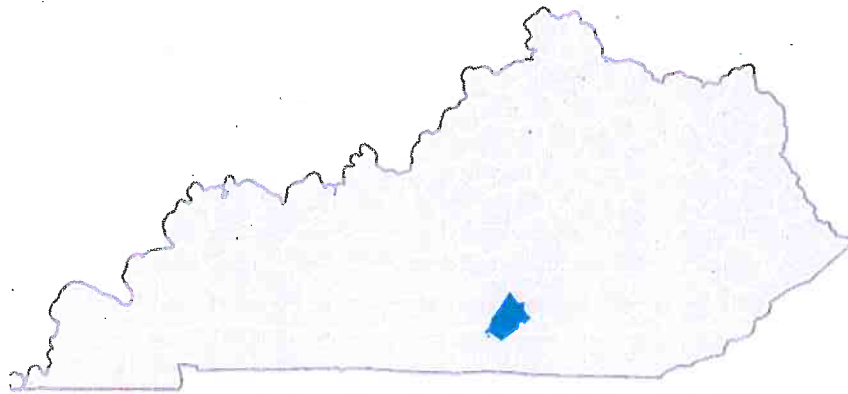
January 8, 2018



JOBS eQ

Economic Overview

Russell County, Kentucky



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Demographic Profile

The population in Russell County, Kentucky was 17,684 per American Community Survey data for 2012-2016.

The region has a civilian labor force of 6,894 with a participation rate of 48.7%. Of individuals 25 to 64 in Russell County, Kentucky, 14.6% have a bachelor's degree or higher which compares with 31.8% in the nation.

The median household income in Russell County, Kentucky is \$31,539 and the median house value is \$88,600.

Summary ¹						
	Percent			Value		
	Russell County, Kentucky	Cumberlands, KY WDA	Kentucky	Russell County, Kentucky	Cumberlands, KY WDA	Kentucky
Demographics						
Population (ACS)	—	—	—	17,684	321,022	4,411,989
Male	48.9%	49.4%	49.2%	8,652	158,536	2,172,745
Female	51.1%	50.6%	50.8%	9,032	162,486	2,239,244
Median Age ²	—	—	—	43.4	40.5	38.6
Under 18 Years	22.5%	22.7%	23.0%	3,981	72,833	1,014,190
18 to 24 Years	7.2%	9.0%	9.7%	1,279	28,791	427,726
25 to 34 Years	10.7%	11.7%	12.8%	1,898	37,431	566,828
35 to 44 Years	11.8%	12.3%	12.7%	2,082	39,602	560,760
45 to 54 Years	15.0%	14.1%	13.9%	2,657	45,373	611,789
55 to 64 Years	14.1%	13.5%	13.1%	2,491	43,270	577,696
65 to 74 Years	10.7%	10.0%	8.7%	1,890	32,019	384,692
75 Years, and Over	8.0%	6.8%	6.1%	1,406	21,703	268,308
Race: White	95.8%	95.7%	87.5%	16,938	307,301	3,859,516
Race: Black or African American	0.2%	1.7%	7.9%	44	5,431	350,242
Race: American Indian and Alaska Native	0.1%	0.3%	0.2%	24	933	9,052
Race: Asian	0.4%	0.4%	1.3%	75	1,357	57,084
Race: Native Hawaiian and Other Pacific Islander	0.7%	0.1%	0.1%	126	234	2,584
Race: Some Other Race	1.8%	0.5%	0.9%	322	1,516	40,674
Race: Two or More Races	0.9%	1.3%	2.1%	155	4,250	92,837
Hispanic or Latino (of any race)	3.5%	2.0%	3.3%	624	6,300	146,945
Population Growth						
Population (Pop Estimates) ⁵	—	—	—	17,722	321,305	4,436,974
Population Annual Average Growth ⁵	0.3%	0.2%	0.5%	49	785	21,774
Economic						
Labor Force Participation Rate and Size (civilian population 16 years and over)	48.7%	50.9%	59.2%	6,894	130,677	2,070,698
Armed Forces Labor Force	0.0%	0.1%	0.4%	0	130	14,735
Veterans, Age 18-64	4.0%	5.0%	5.8%	416	9,621	158,252
Median Household Income ²	—	—	—	\$31,539	\$32,984	\$44,811

Summary ¹						
	Percent			Value		
	Russell County, Kentucky	Cumberlands, KY WDA	Kentucky	Russell County, Kentucky	Cumberlands, KY WDA	Kentucky
Per Capita Income	—	—	—	\$17,702	\$18,501	\$24,802
Poverty Level (of all people)	26.5%	25.4%	18.8%	4,606	79,064	804,139
Households Receiving Food Stamps	19.2%	22.6%	16.9%	1,362	27,950	290,270
Mean Commute Time (minutes)	—	—	—	20.3	21.5	23.0
Commute via Public Transportation	0.3%	0.2%	1.1%	21	281	20,408
Union Membership ³	11.2%	10.7%	10.8%	—	—	—
Educational Attainment, Age 25-64						
No High School Diploma	20.4%	17.8%	12.5%	1,860	29,552	288,805
High School Graduate	36.5%	40.1%	32.5%	3,328	66,429	753,532
Some College, No Degree	20.2%	19.9%	21.9%	1,847	32,986	507,904
Associate's Degree	8.3%	7.9%	8.9%	758	13,154	205,959
Bachelor's Degree	8.3%	8.3%	14.7%	760	13,763	341,088
Postgraduate Degree	6.3%	5.9%	9.5%	575	9,792	219,785
Housing						
Total Housing Units	—	—	—	9,947	148,823	1,951,090
Median House Value (of owner-occupied units) ²	—	—	—	\$88,600	\$90,115	\$126,100
Homeowner Vacancy	0.2%	1.6%	1.9%	11	1,465	21,980
Rental Vacancy	8.8%	6.7%	6.0%	181	2,630	36,766
Renter-Occupied Housing Units (% of Occupied Units)	25.6%	29.1%	33.2%	1,814	35,861	570,314
Occupied Housing Units with No Vehicle Available (% of Occupied Units)	9.3%	8.2%	7.8%	658	10,161	133,316
Social						
Enrolled in Grade 12 (% of total population)	1.2%	1.3%	1.3%	209	4,080	55,299
Disconnected Youth ⁴	14.5%	5.0%	3.2%	113	860	7,294
Children in Single Parent Families (% of all children)	38.1%	35.4%	35.7%	1,360	23,362	334,388
With a Disability, Age 18-64	18.8%	19.5%	15.8%	1,947	37,279	424,996
With a Disability, Age 18-64, Labor Force Participation Rate and Size	23.4%	24.2%	33.1%	456	9,014	140,611
Foreign Born	2.3%	1.2%	3.5%	400	3,827	154,143
Speak English Less Than Very Well (population 5 yrs and over)	2.4%	0.8%	2.1%	397	2,303	88,659

Source: [JobsEQ®](http://www.chmuraecon.com/jobseq)

1. American Community Survey 2012-2016, unless noted otherwise

2. Median values for certain aggregate regions (such as MSAs) may be estimated as the weighted averages of the median values from the composing counties.

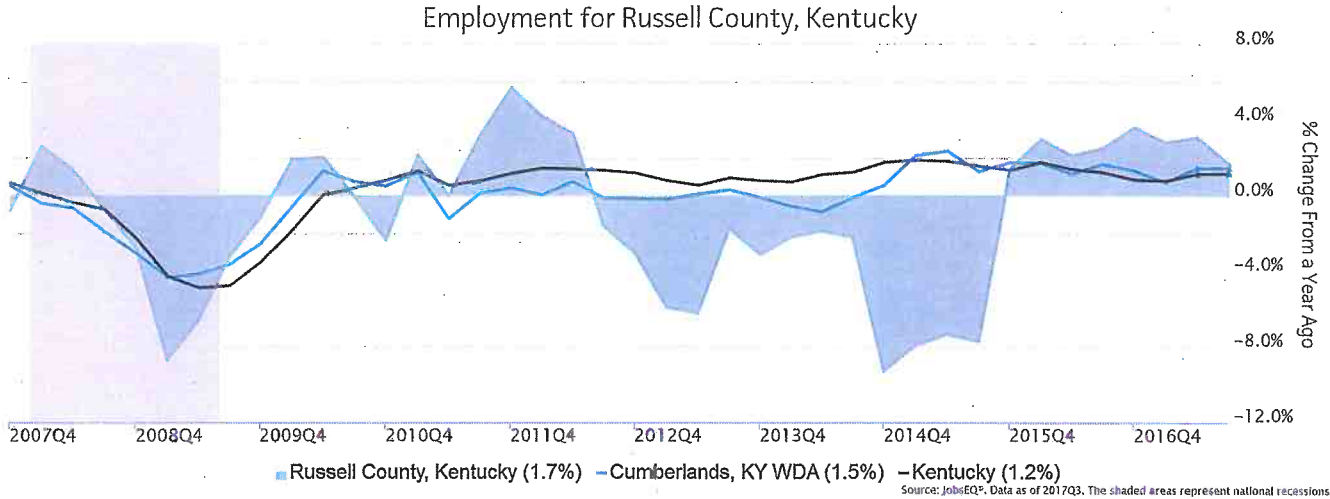
3. 2016; Current Population Survey, unionstats.com, and Chmura; county- and zip-level data are best estimates based upon industry-, MSA-, and state-level data

4. Disconnected Youth are 16-19 year olds who are (1) not in school, (2) not high school graduates, and (3) either unemployed or not in the labor force.

5. Census 2016, annual average growth rate since 2006

Employment Trends

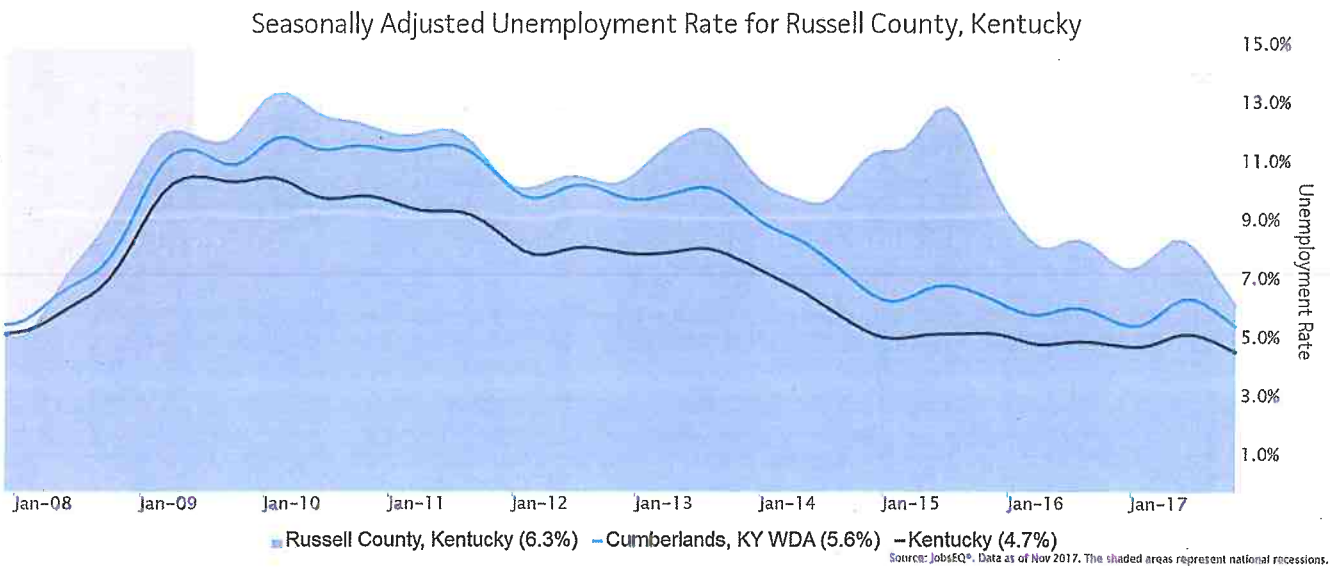
As of 2017Q3, total employment for Russell County, Kentucky was 6,550 (based on a four-quarter moving average). Over the year ending 2017Q3, employment increased 1.7% in the region.



Employment data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics and imputed where necessary. Data are updated through 2017Q1 with preliminary estimates updated to 2017Q3.

Unemployment Rate

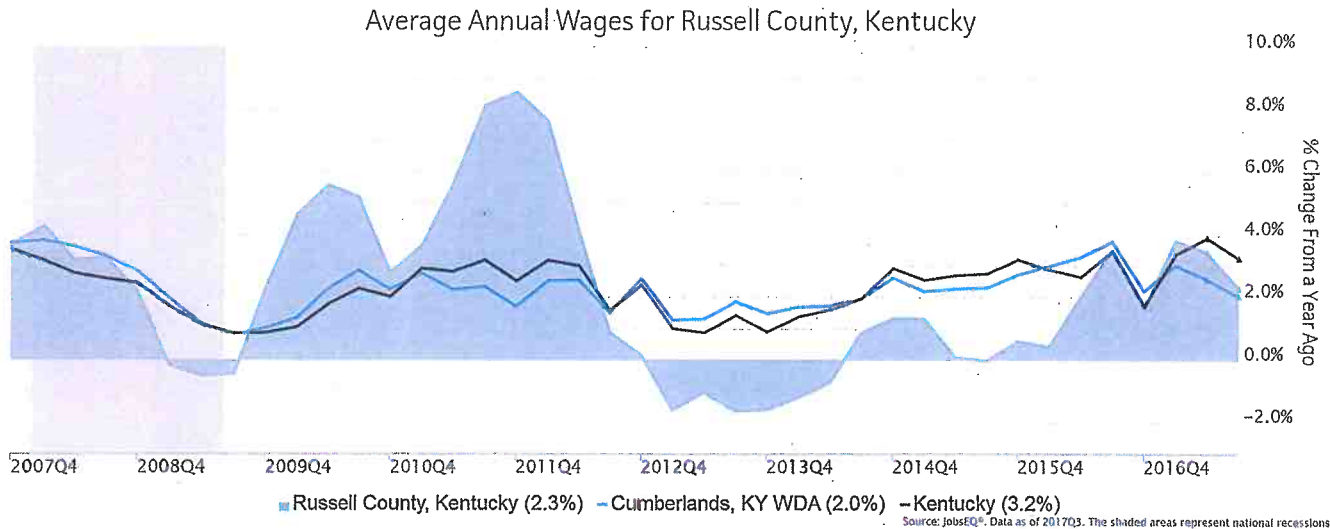
The seasonally adjusted unemployment rate for Russell County, Kentucky was 6.3% as of November 2017. The regional unemployment rate was higher than the national rate of 4.3%. One year earlier, in November 2016, the unemployment rate in Russell County, Kentucky was 7.8%.



Unemployment rate data are from the Local Area Unemployment Statistics, provided by the Bureau of Labor Statistics and updated through November 2017.

Wage Trends

The average worker in Russell County, Kentucky earned annual wages of \$30,220 as of 2017Q3. Average annual wages per worker increased 2.3% in the region during the preceding four quarters. For comparison purposes, annual average wages were \$55,793 in the nation as of 2017Q3.



Annual average wages per worker data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics and imputed where necessary. Data are updated through 2017Q1 with preliminary estimates updated to 2017Q3.

Cost of Living Index

The Cost of Living Index estimates the relative price levels for consumer goods and services. When applied to wages and salaries, the result is a measure of relative purchasing power. The cost of living is 17.9% lower in Russell County, Kentucky than the U.S. average.

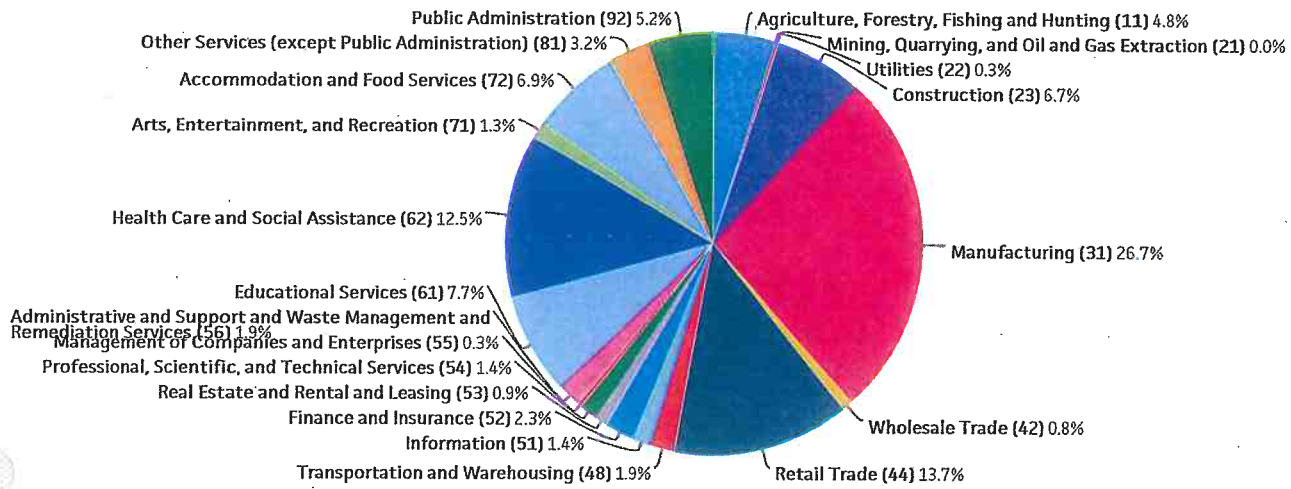
Cost of Living Information			
	Annual Average Salary	Cost of Living Index (Base US)	US Purchasing Power
Russell County, Kentucky	\$30,220	82.1	\$36,793
Cumberlandands, KY WDA	\$33,501	81.3	\$41,189
Kentucky	\$44,456	88.8	\$50,067
USA	\$54,666	100.0	\$54,666

Source: JobsEQ®
 Data as of 2017Q3
 Cost of Living per C2ER, data as of 2017q2, imputed by Chmura where necessary.

Industry Snapshot

The largest sector in Russell County, Kentucky is Manufacturing, employing 1,750 workers. The next-largest sectors in the region are Retail Trade (894 workers) and Health Care and Social Assistance (820). High location quotients (LQs) indicate sectors in which a region has high concentrations of employment compared to the national average. The sectors with the largest LQs in the region are Agriculture, Forestry, Fishing and Hunting (LQ = 3.35), Manufacturing (3.25), and Retail Trade (1.27).

Total Workers for Russell County, Kentucky by Industry



Source: JobsEQ®. Data as of 2017Q3

Employment data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics and imputed where necessary. Data are updated through 2017Q1 with preliminary estimates updated to 2017Q3.

Sectors in Russell County, Kentucky with the highest average wages per worker are Management of Companies and Enterprises (\$65,297), Utilities (\$56,951), and Information (\$46,293). Regional sectors with the best job growth (or most moderate job losses) over the last 5 years are Accommodation and Food Services (+46 jobs), Transportation and Warehousing (+34), and Retail Trade (+21).

Over the next 1 year, employment in Russell County, Kentucky is projected to expand by 3 jobs. The fastest growing sector in the region is expected to be Health Care and Social Assistance with a +1.9% year-over-year rate of growth. The strongest forecast by number of jobs over this period is expected for Health Care and Social Assistance (+16 jobs), Construction (+3), and Accommodation and Food Services (+2).

		Current			Historical				Forecast		
		Four Quarters Ending with 2017q3			Total Change over the Last 5 Years	Average Annual % Change in Employment 2012q3-2017q3			Over the Next 1 Year		
NAICS	Industry	Empl	Avg. Annual Wages	Location Quotient	Empl	Russell County, Kentucky	Cumberland, KY WDA	Kentucky	Total Approx Sep Demand	Total Growth Demand	Avg. Annual Growth Percent
11	Agriculture, Forestry, Fishing and Hunting	311	\$16,319	3.35	-13	-0.8%	0.1%	0.4%	33	-2	-0.5%
21	Mining, Quarrying, and Oil and Gas Extraction	1	\$3,434	0.02	0	-4.4%	-10.0%	-13.9%	0	0	1.4%
22	Utilities	18	\$56,951	0.51	1	1.1%	3.2%	-0.1%	2	0	-0.3%
23	Construction	441	\$37,277	1.21	-225	-7.9%	-1.3%	1.8%	43	3	0.7%
31	Manufacturing	1,750	\$35,017	3.25	-126	-1.4%	0.8%	2.6%	182	-18	-1.0%
42	Wholesale Trade	51	\$27,068	0.20	-27	-8.2%	-0.4%	1.0%	5	0	-0.9%
44	Retail Trade	894	\$27,302	1.27	21	0.5%	1.4%	1.2%	119	-1	-0.1%
48	Transportation and Warehousing	126	\$34,546	0.46	34	6.4%	5.8%	2.8%	13	-2	-1.3%
51	Information	91	\$46,293	0.70	-17	-3.4%	3.9%	-2.2%	9	-1	-0.7%
52	Finance and Insurance	154	\$45,725	0.59	8	1.0%	0.3%	1.7%	14	0	-0.2%
53	Real Estate and Rental and Leasing	62	\$27,939	0.56	-16	-4.4%	-0.2%	1.5%	6	0	-0.3%
54	Professional, Scientific, and Technical Services	93	\$44,975	0.22	-34	-6.1%	-4.7%	1.4%	8	0	0.4%
55	Management of Companies and Enterprises	17	\$65,297	0.17	8	13.8%	4.9%	0.3%	2	0	0.1%
56	Administrative and Support and Waste Management and Remediation Services	125	\$17,618	0.29	5	0.8%	4.3%	2.9%	14	1	0.8%
61	Educational Services	504	\$30,513	0.93	-9	-0.3%	-0.6%	-0.6%	47	1	0.2%
62	Health Care and Social Assistance	820	\$28,556	0.88	-231	-4.8%	-0.1%	1.1%	77	16	1.9%
71	Arts, Entertainment, and Recreation	84	\$24,916	0.65	-140	-17.8%	-0.9%	2.4%	12	1	0.6%
72	Accommodation and Food Services	455	\$12,135	0.77	46	2.2%	2.7%	2.6%	74	2	0.4%
81	Other Services (except Public Administration)	212	\$20,653	0.73	14	1.3%	-1.9%	-0.6%	24	1	0.3%
92	Public Administration	342	\$28,229	1.10	9	0.5%	0.3%	-0.4%	31	0	-0.1%
	Total - All Industries	6,550	\$30,220	1.00	-694	-2.0%	0.8%	1.2%	714	3	0.0%

Source: JobsEQ®

Employment data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics and imputed where necessary. Data are updated through 2017Q1 with preliminary estimates updated to 2017Q3. Forecast employment growth uses national projections adapted for regional growth patterns.

Occupation Snapshot

The largest major occupation group in Russell County, Kentucky is Production Occupations, employing 1,139 workers. The next-largest occupation groups in the region are Office and Administrative Support Occupations (735 workers) and Sales and Related Occupations (629). High location quotients (LQs) indicate occupation groups in which a region has high concentrations of employment compared to the national average. The major groups with the largest LQs in the region are Production Occupations (LQ = 2.86), Management Occupations (1.46), and Community and Social Service Occupations (1.39).

Occupation groups in Russell County, Kentucky with the highest average wages per worker are Management Occupations (\$75,300), Architecture and Engineering Occupations (\$61,600), and Computer and Mathematical Occupations (\$59,700). The unemployment rate in the region varied among the major groups from 1.7% among Management Occupations to 9.5% among Food Preparation and Serving Related Occupations.

Over the next 1 year, the fastest growing occupation group in Russell County, Kentucky is expected to be Healthcare Support Occupations with a +2.3% year-over-year rate of growth. The strongest forecast by number of jobs over this period is expected for Healthcare Practitioners and Technical Occupations (+4 jobs) and Personal Care and Service Occupations (+4). Over the same period, the highest separation demand (occupation demand due to retirements and workers moving from one occupation to another) is expected in Production Occupations (120 jobs) and Sales and Related Occupations (89).

Occupation Snapshot in Russell County, Kentucky														
SOC	Occupation	Current					Historical					Forecast		
		Four Quarters Ending with 2017q3			2017q3		Total Change over the Last 5 Years	Avg Ann % Chg in Empl 2012q3-2017q3			Over the Next 1 Year			
		Empl	Avg. Annual Wages ¹	LQ	Unempl	Unempl Rate		Empl	Russell County, Kentucky	Cumberland, KY WDA	Kentucky	Current Online Job Ads ²	Total Sep Demand	Total Growth Demand
11-0000	Management	575	\$75,300	1.46	9	1.7%	-33	-1.1%	0.2%	0.8%	6	43	0	0.0%
13-0000	Business and Financial Operations	147	\$49,500	0.44	6	4.4%	-14	-1.8%	0.9%	1.2%	4	13	0	0.2%
15-0000	Computer and Mathematical	53	\$59,700	0.28	2	4.1%	-14	-4.6%	-1.8%	1.0%	2	4	0	0.6%
17-0000	Architecture and Engineering	110	\$61,600	1.00	4	4.1%	-12	-2.0%	-0.1%	1.3%	0	8	0	0.3%
19-0000	Life, Physical, and Social Science	18	\$49,000	0.34	1	4.4%	-6	-5.8%	0.4%	0.3%	0	2	0	0.6%
21-0000	Community and Social Service	145	\$34,700	1.39	4	3.2%	12	1.8%	-0.8%	0.4%	0	16	3	1.7%
23-0000	Legal	26	\$53,600	0.48	0	n/a	-1	-0.5%	-0.6%	-0.1%	0	1	0	0.6%
25-0000	Education, Training, and Library	381	\$38,900	1.03	27	7.3%	-14	-0.7%	-0.8%	-0.6%	0	32	2	0.4%
27-0000	Arts, Design, Entertainment, Sports, and Media	59	\$30,000	0.50	3	4.4%	-18	-5.2%	0.0%	0.2%	3	6	0	-0.3%
29-0000	Healthcare Practitioners and	312	\$59,500	0.84	8	2.7%	-135	-7.0%	0.0%	1.0%	15	18	4	1.3%

Occupation Snapshot in Russell County, Kentucky

		Current					Historical				Forecast			
		Four Quarters Ending with 2017q3			2017q3		Total Change over the Last 5 Years	Avg Ann % Chg in Empl 2012q3-2017q3			Over the Next 1 Year			
SOC	Occupation	Empl	Avg. Annual Wages ¹	LQ	Unempl	Unempl Rate	Empl	Russell County, Kentucky	Cumberland, KY WDA	Kentucky	Current Online Job Ads ²	Total Sep Demand	Total Growth Demand	Avg. Annual Growth Percent
	Technical													
31-0000	Healthcare Support	144	\$25,200	0.79	12	7.4%	-37	-4.5%	-0.1%	1.0%	8	17	3	2.3%
33-0000	Protective Service	109	\$30,800	0.78	4	4.2%	-1	-0.1%	-0.4%	0.4%	0	10	0	0.0%
35-0000	Food Preparation and Serving Related	503	\$17,900	0.89	52	9.5%	-4	-0.1%	2.2%	2.3%	39	86	2	0.4%
37-0000	Building and Grounds Cleaning and Maintenance	194	\$22,300	0.84	15	7.2%	-27	-2.5%	0.2%	1.0%	5	24	1	0.5%
39-0000	Personal Care and Service	230	\$22,300	0.90	16	6.9%	-2	-0.1%	-0.1%	1.2%	1	36	4	1.8%
41-0000	Sales and Related	629	\$26,700	0.93	40	6.3%	-10	-0.3%	1.5%	1.2%	60	89	-1	-0.2%
43-0000	Office and Administrative Support	735	\$28,000	0.76	46	6.1%	-74	-1.9%	2.2%	1.5%	17	78	-4	-0.6%
45-0000	Farming, Fishing, and Forestry	22	\$26,200	0.50	2	7.2%	-5	-3.8%	2.4%	1.7%	0	3	0	-0.7%
47-0000	Construction and Extraction	359	\$34,400	1.21	30	8.2%	-137	-6.2%	-1.6%	0.0%	1	36	2	0.6%
49-0000	Installation, Maintenance, and Repair	300	\$36,900	1.20	14	4.8%	-47	-2.9%	0.8%	0.9%	2	28	0	0.1%
51-0000	Production	1,139	\$30,700	2.86	91	8.3%	-55	-0.9%	0.6%	2.5%	8	120	-15	-1.3%
53-0000	Transportation and Material Moving	358	\$28,100	0.81	34	8.2%	-62	-3.1%	2.6%	1.7%	62	42	-1	-0.3%
00-0000	Total - All Occupations	6,550	\$34,900	1.00	n/a	n/a	-694	-2.0%	0.8%	1.2%	234	712	3	0.0%

Source: [JobsEQ®](#)

Data as of 2017Q3 unless noted otherwise

Note: Figures may not sum due to rounding.

1. Occupation wages are as of 2016 and should be taken as the average for all Covered Employment

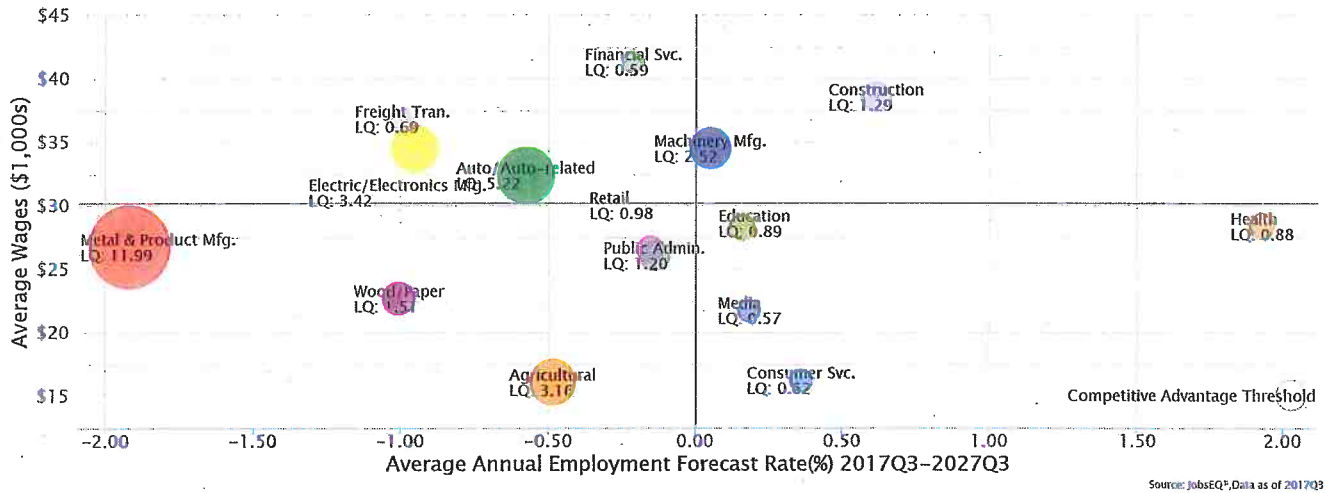
2. Data represent found online ads active within the last thirty days in any zip code intersecting or within the selected region; data represents a sampling rather than the complete universe of postings.

Occupation employment data are estimated via industry employment data and the estimated industry/occupation mix. Industry employment data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics and currently updated through 2017Q1, imputed where necessary with preliminary estimates updated to 2017Q3. Wages by occupation are as of 2016 provided by the BLS and imputed where necessary. Forecast employment growth uses national projections from the Bureau of Labor Statistics adapted for regional growth patterns.

Industry Clusters

A cluster is a geographic concentration of interrelated industries or occupations. The industry cluster in Russell County, Kentucky with the highest relative concentration is Metal & Product Mfg. with a location quotient of 11.99. This cluster employs 588 workers in the region with an average wage of \$26,764. Employment in the Metal & Product Mfg. cluster is projected to contract in the region about 1.9% per year over the next ten years.

Industry Clusters for Russell County, Kentucky as of 2017Q3

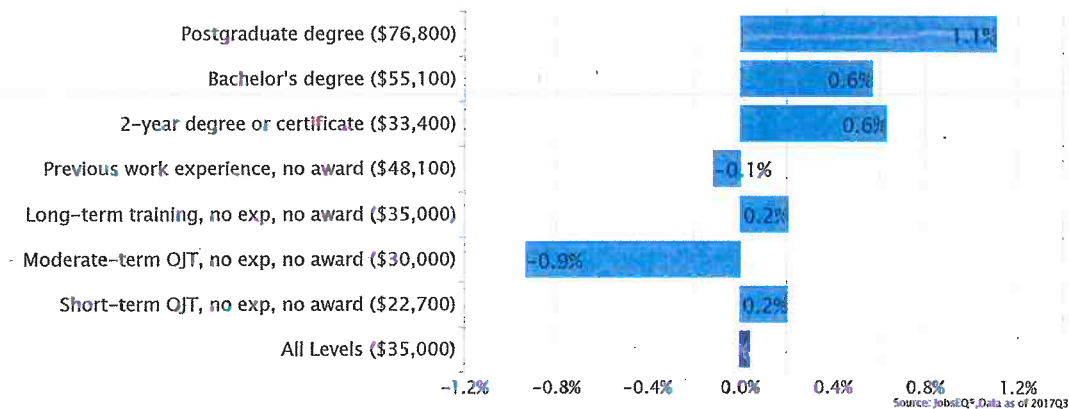


Location quotient and average wage data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics, imputed where necessary, and updated through 2017Q1 with preliminary estimates updated to 2017Q3. Forecast employment growth uses national projections from the Bureau of Labor Statistics adapted for regional growth patterns.

Education Levels

Expected growth rates for occupations vary by the education and training required. While all employment in Russell County, Kentucky is projected to grow 0.0% over the next ten years, occupations typically requiring a postgraduate degree are expected to grow 1.1% per year, those requiring a bachelor's degree are forecast to grow 0.6% per year, and occupations typically needing a 2-year degree or certificate are expected to grow 0.6% per year.

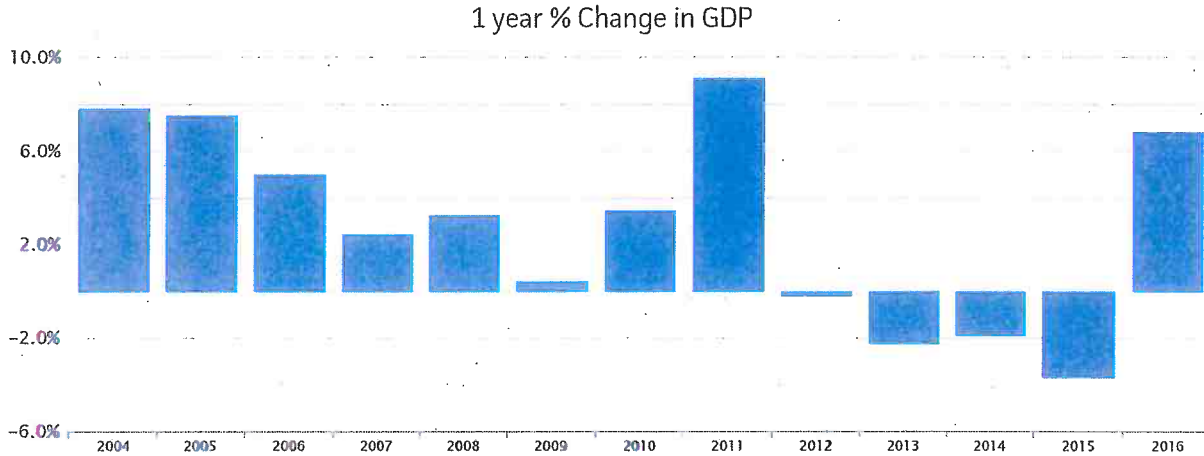
Annual Average Projected Job Growth by Training Required for Russell County, Kentucky



Employment by occupation data are estimates as of 2017Q3. Education levels of occupations are based on BLS assignments. Forecast employment growth uses national projections from the Bureau of Labor Statistics adapted for regional growth patterns.

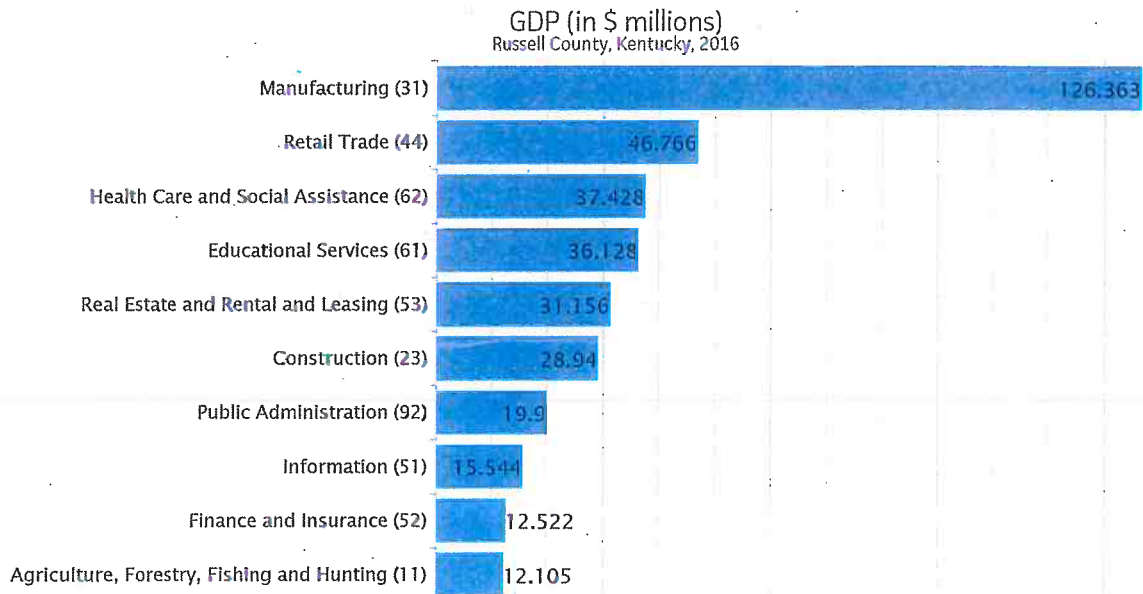
Gross Domestic Product

Gross Domestic Product (GDP) is the total value of goods and services produced by a region. In 2016, nominal GDP in Russell County, Kentucky expanded 6.8%. This follows a contraction of 3.7% in 2015. As of 2016, total GDP in Russell County, Kentucky was \$427,999,000.



Gross Domestic Product data are provided by the Bureau of Economic Analysis, imputed by Chmura where necessary, updated through 2016.

Of the sectors in Russell County, Kentucky, Manufacturing contributed the largest portion of GDP in 2016, \$126,363,000. The next-largest contributions came from Retail Trade (\$46,766,000); Health Care and Social Assistance (\$37,428,000); and Educational Services (\$36,128,000).



Gross Domestic Product data are provided by the Bureau of Economic Analysis, imputed by Chmura where necessary, updated through 2016.

Region Definition

Cumberlands, KY WDA is defined as the following counties: Adair County, Kentucky; Casey County, Kentucky; Clinton County, Kentucky; Cumberland County, Kentucky; Green County, Kentucky; Laurel County, Kentucky; McCreary County, Kentucky; Pulaski County, Kentucky; Rockcastle County, Kentucky; Russell County, Kentucky; Taylor County, Kentucky; Wayne County, Kentucky; Whitley County, Kentucky

FAQ

What is a location quotient?

A location quotient (LQ) 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 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. The total projected demand for an occupation is the sum of the separation demand and the growth demand (which is the increase or decrease of jobs in an occupation expected due to expansion or contraction of the overall number of jobs in that occupation).

What is a cluster?

A cluster is a geographic concentration of interrelated industries or occupations. If a regional cluster has a location quotient of 1.25 or greater, the region is considered to possess a *competitive advantage* in that cluster.

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.

What is NAICS?

The North American Industry Classification System (NAICS) is used to classify business establishments according to the type of economic activity. The NAICS Code comprises six levels, from the "all industry" level to the 6-digit level. The first two digits define the top level category, known as the "sector," which is the level examined in this report.

What is SOC?

The Standard Occupational Classification system (SOC) is used to classify workers into occupational categories. All workers are classified into one of over 820 occupations according to their occupational definition. To facilitate classification, occupations are combined to form 23 major groups, 96 minor groups, and 449 occupation groups. Each occupation group includes detailed occupations requiring similar job duties, skills, education, or experience.

About This Report

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