



Kentucky Coal Mining

Annual 2015 Economic Impact Estimate

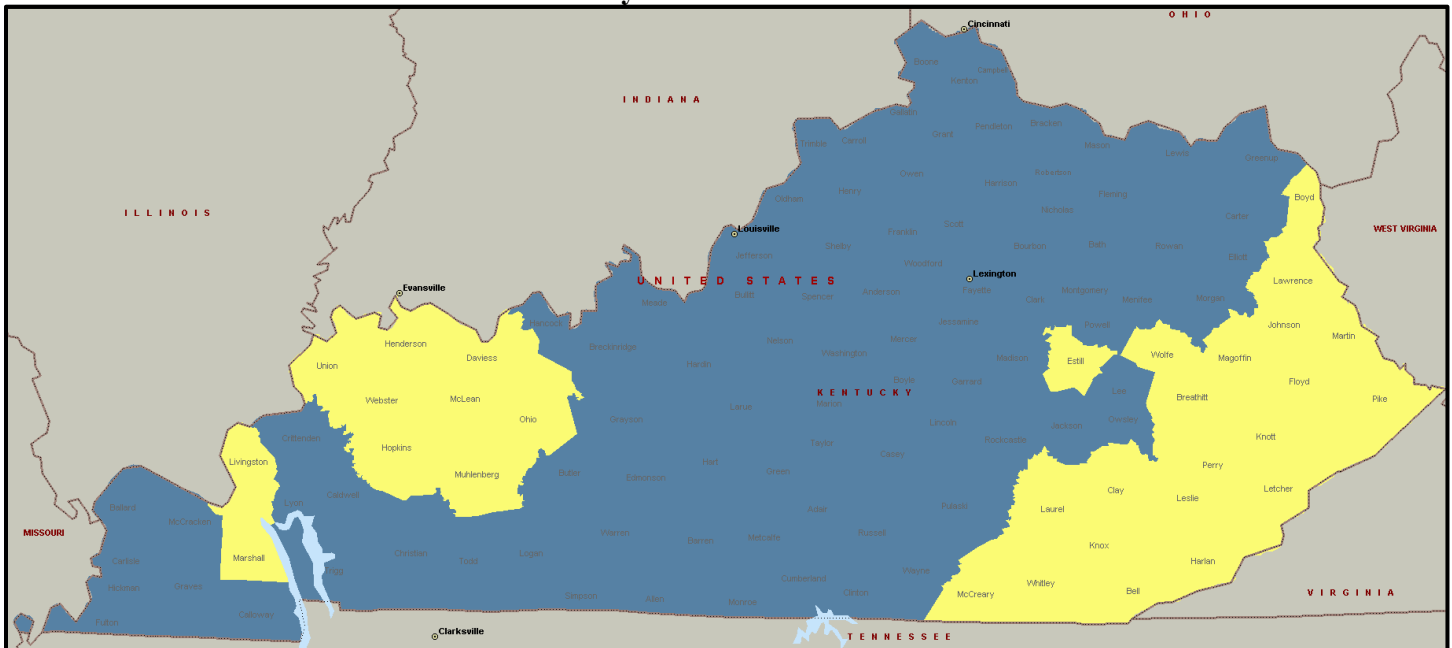
3/11/2016

The Kentucky Coal Mining economic impact estimate is a multiregional (2-regions) estimate. The yellow shaded counties form the region of direct employment and production. Additional economic activity will occur outside of the direct employment region providing both indirect and induced effects which emanate from the direct coal employment counties.

Input: 2015

- NAICS: 2121 – Coal Mining
- Coal Counties with direct employment = 31 Counties.
- Direct Employment – 8,700 (2015 annual);
- Average Annual Base Wage and Salary (without benefits) = \$72,727;
- Average Annual Wage and Salaries (with estimated benefits) = \$87,816; and
- Average Annual Estimated Direct Benefits = 20.8%; and

Kentucky's Coal Counties: 2015



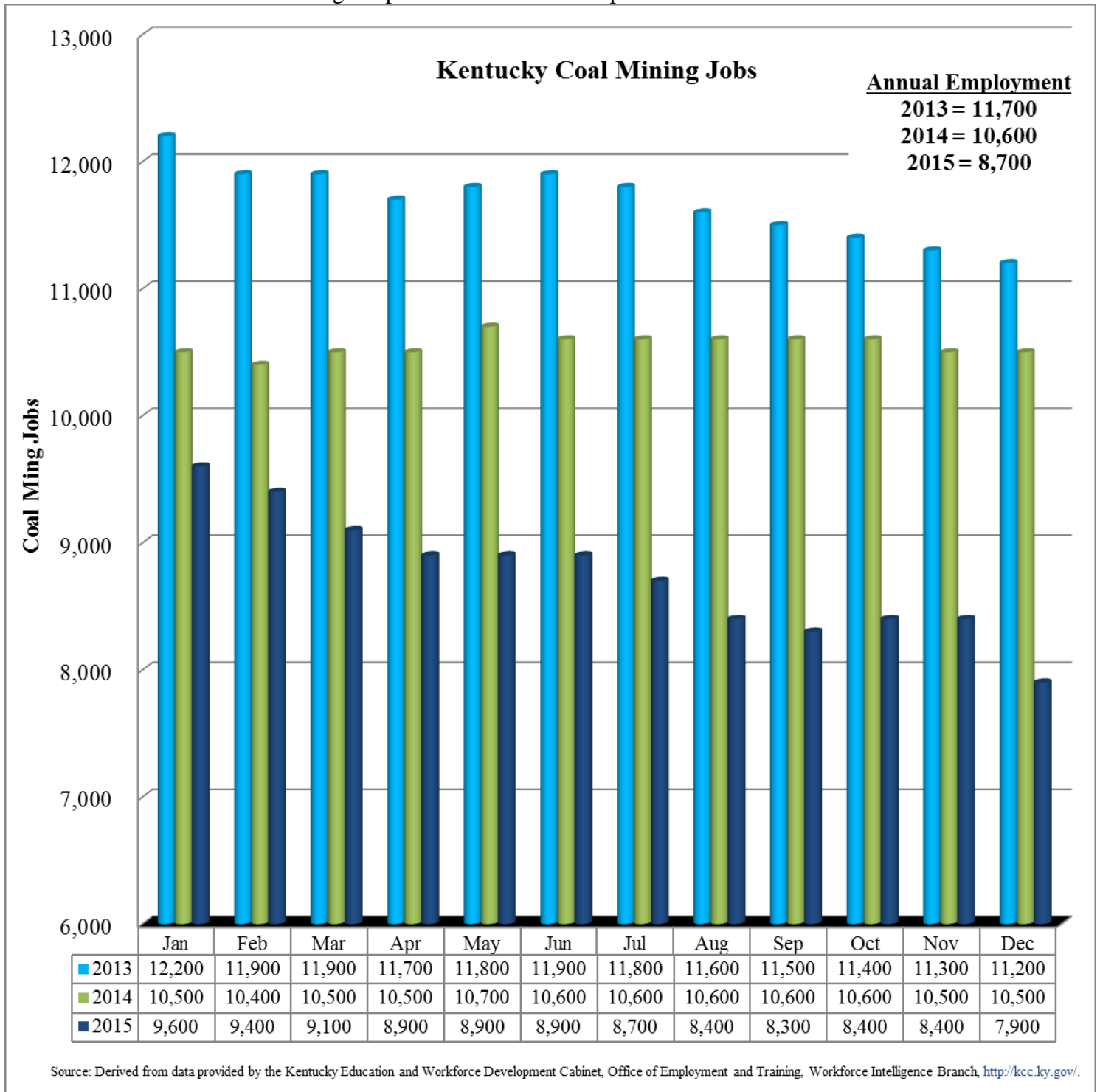
Eastern Kentucky coal producing counties (2015): Bell, Boyd, Breathitt, Clay, Estill, Floyd, Harlan, Johnson, Knott, Knox, Laurel, Lawrence, Leslie, Letcher, Magoffin, Martin, McCreary, Perry, Pike, Whitley, and Wolfe counties.

West Kentucky coal producing counties (2015): Daviess, Henderson, Hopkins, Livingston, Marshall, McLean, Muhlenberg, Ohio, Union, and Webster Counties.

Note: The list of Kentucky's coal producing counties is based on data provided by the Kentucky Energy and Environment Cabinet, Department for Energy Development and Independence, Division of Carbon

Management and Data Analysis. Only counties with direct employment in the coal mining industry are included based on 4th quarter 2015 employment data.

As indicated by the chart below (Kentucky Coal Mining Jobs) Kentucky had 8,700 coal mining jobs (NAICS 2121) on average during 2015. This economic impact is based on 2015 annual average employment. The coal mining industries employment levels have noticeably decline in a linear trend monthly from the beginning of 2015 to the end of 2015. Therefore, the 2015 economic impact estimate would tend to be front load with more of the annual impact occurring during the early months of 2015 and less occurring during the latter months of 2015. This would indicate that Kentucky’s coal mining economic impact at year end (December 2015) is weaker than the 2015 annual average impact estimated in this report.



Kentucky's Coal Mining Economic Impact Estimate 2015 (Annual)
NAICS 2121

Table 1
Coal Region -- Estimated Economic Impact

Economic Impact Originating from Kentucky's Coal Producing Counties (31-County)					
Impact	Jobs	Total Wages Plus Benefits	Hourly Wage and Salary Plus Benefits	Annual Average Wage and Salary Plus Benefits	Gross Domestic Product
Direct	8,700	\$764,000,000	\$42.22	\$87,816	\$2,862,000,000
Indirect	6,104	\$312,400,000	\$24.61	\$51,182	\$531,000,000
Induced	5,096	\$190,000,000	\$17.93	\$37,286	\$338,000,000
Total	19,899	\$1,266,400,000	\$30.60	\$63,640	\$3,731,000,000

Table 2
Rest of Kentucky -- Estimated Economic Impact

Economic Impact Originating from Kentucky – Non Coal Producing Counties (89-Counties)					
Impact	Jobs	Total Wages Plus Benefits	Hourly Wage and Salary Plus Benefits	Annual Average Wage and Salary Plus Benefits	Gross Domestic Product
Direct	-	\$ -	\$0.00	\$ -	\$ -
Indirect	993	\$62,000,000	\$30.03	\$62,469	\$104,000,000
Induced	507	\$22,000,000	\$20.87	\$43,401	\$37,000,000
Total	1,499	\$84,000,000	\$26.93	\$56,022	\$141,000,000

Table 3
Total Statewide -- Estimated Economic Impact

Kentucky - Statewide (Inclusive of Coal Producing and Non Coal Producing Counties) (120-Counties)					
Impact	Jobs	Total Wages Plus Benefits	Hourly Wage and Salary Plus Benefits	Annual Average Wage and Salary Plus Benefits	Gross Domestic Product
Direct	8,700	\$764,000,000	\$42.22	\$87,816	\$2,862,000,000
Indirect	7,096	\$374,400,000	\$25.37	\$52,761	\$635,000,000
Induced	5,603	\$212,000,000	\$18.19	\$37,840	\$375,000,000
Total	21,399	\$1,350,400,000	\$30.34	\$63,106	\$3,872,000,000

Note: all impact estimates occur within the state of Kentucky.

Social/Economic Cost

This study estimates/reports the positive economic impacts which occur due to employees engaged in coal mining production. This report does not account for the cost incurred by the Commonwealth because of this industry. These costs may include police and fire department services, public education, public infrastructure (roads, bridges, prisons, airports, sewage treatment, water treatment, trash collection, etc.), social services, health services, environmental impacts, and tax incentives/abatements.

Glossary of Economic Impact Terms

Economic impacts are a mathematical method of specifying the economic relationships among all businesses/industries and between businesses/industries and consumers. Input-output (I/O) modeling is the most commonly utilized method to assess the economic outcomes of job creation or reduction. Economic impact modeling captures the direct impact of an employment expenditure (jobs with wages, salaries, and benefits) on the economy. Additionally, the secondary effect (indirect) on the economy is captured and the consumer based (induced) effects are calculated by the model.

Economic impact analysis typically utilizes an economic model input-output (I/O) which traces the flow of goods and services, income, and employment among related sectors of the economy. The I/O model generates a mathematical depiction of the flow of economic activity. *Id Est:*

The Kentucky coal mining industry was the direct producer of 61.4 million tons of coal during 2015 (output). The coal mining industry purchases inputs from other industrial sectors, which in turn purchase inputs from other sectors. Each of these industrial sectors hires employees. Employees of each of these related industries use their wage and salary compensation to purchase goods and services from the economy. Linkages between industries in a region create an economic ripple effect because of changes in demand for products. Strong linkages can lead to a healthier economy, as capital flows through the economy rather than out of it.

Direct Effects: Direct effects are the economic activities occurring during the first round of spending in the 31 coal mining counties (initial employment and wage effect of the coal mining employees). There are 8,700 (2015 annual) direct coal mining jobs in the 31 counties.

Indirect Effects: The impact of local industries buying goods and services from other Kentucky industries. The cycle of spending works its way backward through the supply chain until all money leaks from the Kentucky economy, either through imports or by payments to value added. Indirect effects are the changes in sales, income, or employment within the coal mining region. Kentucky's mining industry has backward-linked industries supplying goods and services to the coal mining industry and between each other. These represent the impacts (*e.g.* change in employment) caused by the iteration of industries purchasing from industries. Indirect jobs will be created outside of the coal county region (the primary industry/direct impact industry). The indirect industries supporting the coal mining industry may include maintenance and repair; construction of nonresidential structures; rail transportation; wholesale trade; support activities for oil and gas operations; truck transportation; architectural, engineering, and related services; legal services; accounting, tax preparation, bookkeeping, and payroll services; financial activities; environmental services, *et cetera*.

Induced Effects: The response by an economy to the initial direct and indirect economic activity which occurs through re-spending of income received. This money is recirculated through the household spending patterns causing further local economic activity. New jobs created in the areas of food services, plumbing, medical/dental care, barbershops, clothing sales, police & fire protection, lawn care, legal services, financial services, real estate, merchandize stores, automobile dealers, & service stations, pet grooming, recreational activities, *et cetera*, are due to the direct and indirect effects of the initial direct coal mining industry jobs and the indirect jobs related with coal mining.

Labor Income-Employee Compensation (Includes Benefits): Employee compensation describes the total payroll costs (including benefits). This includes wage and salary payments (by employers) as well as benefits including overtime compensation, health and life insurance, retirement payments, and other non-cash compensation. Significant employment of seasonal and/or part-time workers may lower personal income averages.

Source: Wage and salary benefits estimates are derived from data provided by the United States Bureau of Economic Analysis:

SA07N Wage and salary disbursements by industry – Kentucky

<http://www.bea.gov/regional/spi/default.cfm?satable=SA07N&series=NAICS>

SA06N Compensations by industry – Kentucky

<http://www.bea.gov/regional/spi/default.cfm?satable=SA06N&series=NAICS>

Note: Benefits are based on United States Bureau of Economic Analysis Total Compensation for Wages and Salaries paid during 2014 (Compensation of Employees by Industry – Kentucky). This component of personal income benefits is inclusive of [employer contributions for employee pension and insurance funds](#) (consists of employer payments to private and government employee retirement plans, private group health and life insurance plans, privately administered workers' compensation plans, and supplemental unemployment benefit plans) and of [employer contributions for government social insurance](#).

Methodology/Sources (partial)

The economic impacts estimates and conclusions resulting from this study have been derived from IMPLAN Group databases. This aggregate database is primarily composed of government data sources including information from

- US Bureau of Economic Analysis Benchmark I/O Accounts of the US;
- US Bureau of Economic Analysis Output Estimates;
- US Bureau of Economic Analysis REIS Program;
- US Bureau of Labor Statistics ES 202 Program;
- US Bureau of Labor Statistics Consumer Expenditure Survey;
- US Bureau of County Business Patterns;
- US Census Bureau Decennial Census and Population Surveys;
- US Census Bureau Economic Census and Surveys;
- US Department of Agriculture; and
- US Geological Survey.

Source: The estimates are derived from data and models utilized by the Kentucky Cabinet for Economic Development and based on IMPLAN Group LLC 2014 databases and IMPLAN Version 3.1 software system matrices.

Other data sources:

- (1) The list of Kentucky's coal producing counties is based on data provided by the Kentucky Energy and Environment Cabinet, Department for Energy Development and Independence, Division of Carbon Management and Data Analysis. Only counties with direct employment in the coal mining industry are included based on 4th quarter 2015 employment data. The Kentucky Coal Report - October to December 2015 <http://energy.ky.gov/Pages/CoalFacts.aspx> provided output data.
- (2) The Kentucky Education and Workforce Development Cabinet, Office of Employment and Training, Workforce Intelligence Branch, <http://kcc.ky.gov/> provided the 2015 wage and employment data for direct coal mining employment within Kentucky. The 2015 annual employment data is statewide. The wage and salary data has been derived from (annualized) the four (4) most recently reported quarters: 4th Q 2014, 1st Q 2015, 2nd Q, 2015, and 3rd Q 2015.
- (3) Supplemental direct wage and salary data is based on 2014 data provided by the United States Bureau of Labor Statistics, Quarterly Census of Employment and Wages, <http://data.bls.gov/cgi-bin/dsrv?en>.
- (4) Employee benefits were derived from data provided by the United States Bureau of Economic Analysis, Total Compensation for Wages and Salaries paid during 2014, <http://www.bea.doc.gov/bea/regional/statelocal.htm> .

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**Table 4: Estimated Kentucky Jobs by Industry Sector Associated with Coal Mining
2015 (Annual) Operational Economic Impact**

Industry Sectors	Economic Impact Originating from Coal Counties, Kentucky (31 County)				Economic Impact Originating from Kentucky - Excluding Coal Counties (89 Counties)				Kentucky - Statewide (Inclusive of All County) (120 Counties)			
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Total	8,700	6,104	5,096	19,899	0	993	507	1,499	8,700	7,096	5,603	21,399
Oilseed farming	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Grain farming	0.0	0.1	0.2	0.2	0.0	0.0	0.1	0.2	0.0	0.1	0.3	0.4
Vegetable and melon farming	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Fruit farming	0.0	0.0	0.8	0.8	0.0	0.0	0.1	0.1	0.0	0.0	0.9	0.9
Tree nut farming	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greenhouse, nursery, and floriculture production	0.0	0.0	0.2	0.2	0.0	0.1	0.1	0.2	0.0	0.1	0.3	0.4
Tobacco farming	0.0	0.0	0.1	0.2	0.0	0.1	0.8	0.9	0.0	0.1	0.9	1.1
Cotton farming	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sugarcane and sugar beet farming	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All other crop farming	0.0	38.2	2.7	40.9	0.0	20.3	1.2	21.6	0.0	58.5	3.9	62.5
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	0.0	0.1	2.3	2.4	0.0	0.2	3.6	3.8	0.0	0.3	5.9	6.2
Dairy cattle and milk production	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.2
Poultry and egg production	0.0	0.1	2.2	2.3	0.0	0.0	0.7	0.7	0.0	0.1	2.9	3.0
Animal production, except cattle and poultry and eggs	0.0	0.4	14.1	14.5	0.0	0.2	2.0	2.2	0.0	0.6	16.1	16.7
Forestry, forest products, and timber tract production	0.0	0.1	0.0	0.1	0.0	0.6	0.0	0.6	0.0	0.7	0.0	0.7
Commercial logging	0.0	38.8	0.3	39.1	0.0	14.2	0.2	14.5	0.0	53.0	0.5	53.6
Commercial fishing	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Commercial hunting and trapping	0.0	0.0	0.6	0.6	0.0	0.0	0.1	0.1	0.0	0.0	0.7	0.7
Support activities for agriculture and forestry	0.0	1.4	0.3	1.7	0.0	1.6	0.3	1.8	0.0	3.0	0.6	3.5
Extraction of natural gas and crude petroleum	0.0	62.9	4.3	67.2	0.0	15.0	1.2	16.2	0.0	77.9	5.5	83.4
Extraction of natural gas liquids	0.0	4.6	0.3	4.9	0.0	0.0	0.0	0.0	0.0	4.6	0.3	4.9
Coal mining	8700	0	0	8700	0	0	0	0	8700	0	0	8700
Iron ore mining	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gold ore mining	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Silver ore mining	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Industry Sectors	Economic Impact Originating from Coal Counties, Kentucky (31 County)				Economic Impact Originating from Kentucky - Excluding Coal Counties (89 Counties)				Kentucky - Statewide (Inclusive of All County) (120 Counties)			
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Lead and zinc ore mining	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Copper ore mining	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Uranium-radium-vanadium ore mining	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other metal ore mining	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stone mining and quarrying	0.0	75.2	0.4	75.5	0.0	58.3	0.3	58.6	0.0	133.5	0.7	134.1
Sand and gravel mining	0.0	2.3	0.1	2.3	0.0	2.4	0.1	2.5	0.0	4.7	0.2	4.8
Other clay, ceramic, refractory minerals mining	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Potash, soda, and borate mineral mining	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Phosphate rock mining	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other chemical and fertilizer mineral mining	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other nonmetallic minerals	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drilling oil and gas wells	0.0	2.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0	2.5	0.0	2.5
Support activities for oil and gas operations	0.0	384.4	0.3	384.6	0.0	6.9	0.1	7.0	0.0	391.3	0.4	391.6
Metal mining services	0.0	2.0	0.0	2.0	0.0	9.8	0.0	9.8	0.0	11.8	0.0	11.8
Other nonmetallic minerals services	0.0	53.1	0.0	53.2	0.0	0.7	0.0	0.7	0.0	53.8	0.0	53.9
Electric power generation - Hydroelectric	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric power generation - Fossil fuel	0.0	5.6	1.4	7.0	0.0	1.5	0.3	1.8	0.0	7.1	1.7	8.8
Electric power generation - Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric power generation - Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric power generation - Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric power generation - Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric power generation - Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric power generation - All other	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2
Electric power transmission and distribution	0.0	31.5	8.1	39.6	0.0	5.3	1.0	6.4	0.0	36.8	9.1	46.0
Natural gas distribution	0.0	4.0	2.3	6.4	0.0	0.3	0.1	0.4	0.0	4.3	2.4	6.8
Water, sewage and other systems	0.0	2.1	3.7	5.9	0.0	0.1	0.1	0.3	0.0	2.2	3.8	6.2
Construction of new health care structures	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction of new manufacturing structures	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction of new power and communication structures	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Industry Sectors	Economic Impact Originating from Coal Counties, Kentucky (31 County)				Economic Impact Originating from Kentucky - Excluding Coal Counties (89 Counties)				Kentucky - Statewide (Inclusive of All County) (120 Counties)			
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Construction of new educational and vocational structures	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction of new highways and streets	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction of new commercial structures, including farm structures	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction of other new nonresidential structures	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction of new single-family residential structures	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction of new multifamily residential structures	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction of other new residential structures	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maintenance and repair construction of nonresidential structures	0.0	689.0	21.8	710.8	0.0	116.3	6.2	122.5	0.0	805.3	28.0	833.3
Maintenance and repair construction of residential structures	0.0	1.3	29.5	30.8	0.0	0.2	3.1	3.3	0.0	1.5	32.6	34.1
Maintenance and repair construction of highways, streets, bridges, and tunnels	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dog and cat food manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other animal food manufacturing	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.2	0.2
Flour milling	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rice milling	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Malt manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wet corn milling	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Soybean and other oilseed processing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fats and oils refining and blending	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Breakfast cereal manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beet sugar manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sugar cane mills and refining	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonchocolate confectionery manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chocolate and confectionery manufacturing from cacao beans	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Confectionery manufacturing from	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Industry Sectors	Economic Impact Originating from Coal Counties, Kentucky (31 County)				Economic Impact Originating from Kentucky - Excluding Coal Counties (89 Counties)				Kentucky - Statewide (Inclusive of All County) (120 Counties)			
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
purchased chocolate												
Frozen fruits, juices and vegetables manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Frozen specialties manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.2
Canned fruits and vegetables manufacturing	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
Canned specialties	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dehydrated food products manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fluid milk manufacturing	0.0	0.0	0.8	0.8	0.0	0.0	0.1	0.1	0.0	0.0	0.9	0.9
Creamery butter manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cheese manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry, condensed, and evaporated dairy product manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ice cream and frozen dessert manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Animal, except poultry, slaughtering	0.0	0.0	0.1	0.1	0.0	0.0	0.2	0.2	0.0	0.0	0.3	0.3
Meat processed from carcasses	0.0	0.0	1.6	1.6	0.0	0.0	0.1	0.1	0.0	0.0	1.7	1.7
Rendering and meat byproduct processing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Poultry processing	0.0	0.1	5.8	5.9	0.0	0.0	0.3	0.3	0.0	0.1	6.1	6.2
Seafood product preparation and packaging	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Bread and bakery product, except frozen, manufacturing	0.0	0.0	1.2	1.2	0.0	0.0	0.3	0.3	0.0	0.0	1.5	1.5
Frozen cakes and other pastries manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cookie and cracker manufacturing	0.0	0.0	0.8	0.8	0.0	0.0	0.1	0.1	0.0	0.0	0.9	0.9
Dry pasta, mixes, and dough manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tortilla manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roasted nuts and peanut butter manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1
Other snack food manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coffee and tea manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Flavoring syrup and concentrate manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Kentucky Cabinet for Economic Development
Office of Research and Public Affairs

Industry Sectors	Economic Impact Originating from Coal Counties, Kentucky (31 County)				Economic Impact Originating from Kentucky - Excluding Coal Counties (89 Counties)				Kentucky - Statewide (Inclusive of All County) (120 Counties)			
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Mayonnaise, dressing, and sauce manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Spice and extract manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All other food manufacturing	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.2	0.2
Bottled and canned soft drinks & water	0.0	0.0	1.5	1.6	0.0	0.0	0.2	0.2	0.0	0.0	1.7	1.8
Manufactured ice	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Breweries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wineries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Distilleries	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1
Tobacco product manufacturing	0.0	0.0	0.9	0.9	0.0	0.0	0.1	0.1	0.0	0.0	1.0	1.0
Fiber, yarn, and thread mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Broad woven fabric mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Narrow fabric mills and schiffli machine embroidery	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Nonwoven fabric mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Knit fabric mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Textile and fabric finishing mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fabric coating mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Carpet and rug mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Curtain and linen mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Textile bag and canvas mills	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2
Rope, cordage, twine, tire cord and tire fabric mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other textile product mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hosiery and sock mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other apparel knitting mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cut and sew apparel contractors	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1
Men's and boys cut and sew apparel manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Women's and girls cut and sew apparel manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other cut and sew apparel manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Apparel accessories and other apparel manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leather and hide tanning and finishing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Footwear manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Kentucky Cabinet for Economic Development
Office of Research and Public Affairs

Industry Sectors	Economic Impact Originating from Coal Counties, Kentucky (31 County)				Economic Impact Originating from Kentucky - Excluding Coal Counties (89 Counties)				Kentucky - Statewide (Inclusive of All County) (120 Counties)			
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Other leather and allied product manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sawmills	0.0	19.0	0.7	19.7	0.0	6.2	0.3	6.5	0.0	25.2	1.0	26.2
Wood preservation	0.0	1.0	0.0	1.0	0.0	1.4	0.0	1.4	0.0	2.4	0.0	2.4
Veneer and plywood manufacturing	0.0	0.0	0.0	0.0	0.0	0.6	0.1	0.7	0.0	0.6	0.1	0.7
Engineered wood member and truss manufacturing	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.2	0.0	0.3	0.0	0.3
Reconstituted wood product manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wood windows and door manufacturing	0.0	0.4	0.2	0.6	0.0	0.3	0.1	0.4	0.0	0.7	0.3	1.0
Cut stock, resawing lumber, and planing	0.0	1.8	0.1	1.9	0.0	1.5	0.1	1.6	0.0	3.3	0.2	3.5
Other millwork, including flooring	0.0	0.7	0.3	1.0	0.0	1.6	0.6	2.2	0.0	2.3	0.9	3.2
Wood container and pallet manufacturing	0.0	0.3	0.4	0.8	0.0	0.4	0.2	0.6	0.0	0.7	0.6	1.4
Manufactured home (mobile home) manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prefabricated wood building manufacturing	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.2
All other miscellaneous wood product manufacturing	0.0	0.1	0.1	0.1	0.0	0.3	0.1	0.4	0.0	0.4	0.2	0.5
Pulp mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paper mills	0.0	0.2	0.1	0.4	0.0	0.2	0.0	0.2	0.0	0.4	0.1	0.6
Paperboard mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paperboard container manufacturing	0.0	0.2	0.1	0.3	0.0	0.8	0.2	1.0	0.0	1.0	0.3	1.3
Paper bag and coated and treated paper manufacturing	0.0	0.0	0.0	0.0	0.0	1.0	0.1	1.1	0.0	1.0	0.1	1.1
Stationery product manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sanitary paper product manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.0	0.1	0.1	0.2
All other converted paper product manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Printing	0.0	3.8	2.1	6.0	0.0	3.1	1.5	4.6	0.0	6.9	3.6	10.6
Support activities for printing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Petroleum refineries	0.0	12.2	0.6	12.8	0.0	0.3	0.0	0.4	0.0	12.5	0.6	13.2
Asphalt paving mixture and block manufacturing	0.0	0.7	0.1	0.8	0.0	0.4	0.1	0.4	0.0	1.1	0.2	1.2
Asphalt shingle and coating materials manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Kentucky Cabinet for Economic Development
Office of Research and Public Affairs

Industry Sectors	Economic Impact Originating from Coal Counties, Kentucky (31 County)				Economic Impact Originating from Kentucky - Excluding Coal Counties (89 Counties)				Kentucky - Statewide (Inclusive of All County) (120 Counties)			
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Petroleum lubricating oil and grease manufacturing	0.0	0.0	0.0	0.0	0.0	3.2	0.0	3.2	0.0	3.2	0.0	3.2
All other petroleum and coal products manufacturing	0.0	3.4	0.0	3.5	0.0	2.0	0.0	2.0	0.0	5.4	0.0	5.5
Petrochemical manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial gas manufacturing	0.0	1.1	0.0	1.1	0.0	0.6	0.0	0.6	0.0	1.7	0.0	1.7
Synthetic dye and pigment manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other basic inorganic chemical manufacturing	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.3	0.0	0.3	0.0	0.4
Other basic organic chemical manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plastics material and resin manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Synthetic rubber manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Artificial and synthetic fibers and filaments manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nitrogenous fertilizer manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Phosphatic fertilizer manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fertilizer mixing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pesticide and other agricultural chemical manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Medicinal and botanical manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pharmaceutical preparation manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1
In-vitro diagnostic substance manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1
Biological product (except diagnostic) manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paint and coating manufacturing	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.2
Adhesive manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Soap and other detergent manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Polish and other sanitation good manufacturing	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Surface active agent manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Toilet preparation manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Printing ink manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Kentucky Cabinet for Economic Development
Office of Research and Public Affairs

Industry Sectors	Economic Impact Originating from Coal Counties, Kentucky (31 County)				Economic Impact Originating from Kentucky - Excluding Coal Counties (89 Counties)				Kentucky - Statewide (Inclusive of All County) (120 Counties)			
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Explosives manufacturing	0.0	25.4	0.0	25.4	0.0	3.0	0.0	3.0	0.0	28.4	0.0	28.4
Custom compounding of purchased resins	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Photographic film and chemical manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Other miscellaneous chemical product manufacturing	0.0	0.3	0.1	0.4	0.0	0.1	0.0	0.1	0.0	0.4	0.1	0.5
Plastics packaging materials and unlaminated film and sheet manufacturing	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.6	0.0	0.5	0.0	0.6
Unlaminated plastics profile shape manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plastics pipe and pipe fitting manufacturing	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.2
Laminated plastics plate, sheet (except packaging), and shape manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Polystyrene foam product manufacturing	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.5	0.0	0.3	0.2	0.5
Urethane and other foam product (except polystyrene) manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Plastics bottle manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Other plastics product manufacturing	0.0	0.6	0.1	0.8	0.0	1.9	0.3	2.2	0.0	2.5	0.4	3.0
Tire manufacturing	0.0	0.7	0.0	0.8	0.0	3.1	0.0	3.2	0.0	3.8	0.0	4.0
Rubber and plastics hoses and belting manufacturing	0.0	1.1	0.0	1.1	0.0	12.0	0.0	12.0	0.0	13.1	0.0	13.1
Other rubber product manufacturing	0.0	1.1	0.1	1.2	0.0	1.8	0.1	1.9	0.0	2.9	0.2	3.1
Pottery, ceramics, and plumbing fixture manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brick, tile, and other structural clay product manufacturing	0.0	0.3	0.1	0.4	0.0	0.7	0.2	0.9	0.0	1.0	0.3	1.3
Flat glass manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other pressed and blown glass and glassware manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass container manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass product manufacturing made of purchased glass	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1
Cement manufacturing	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0	0.5	0.0	0.5

Kentucky Cabinet for Economic Development
Office of Research and Public Affairs

Industry Sectors	Economic Impact Originating from Coal Counties, Kentucky (31 County)				Economic Impact Originating from Kentucky - Excluding Coal Counties (89 Counties)				Kentucky - Statewide (Inclusive of All County) (120 Counties)			
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Ready-mix concrete manufacturing	0.0	5.8	0.7	6.5	0.0	2.5	0.3	2.9	0.0	8.3	1.0	9.4
Concrete block and brick manufacturing	0.0	1.9	0.1	2.0	0.0	1.3	0.1	1.5	0.0	3.2	0.2	3.5
Concrete pipe manufacturing	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Other concrete product manufacturing	0.0	0.5	0.1	0.7	0.0	0.3	0.1	0.4	0.0	0.8	0.2	1.1
Lime manufacturing	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.6	0.0	0.5	0.0	0.6
Gypsum product manufacturing	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.2
Abrasive product manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Cut stone and stone product manufacturing	0.0	0.2	0.4	0.6	0.0	0.6	0.1	0.7	0.0	0.8	0.5	1.3
Ground or treated mineral and earth manufacturing	0.0	0.0	0.0	0.0	0.0	7.0	0.0	7.0	0.0	7.0	0.0	7.0
Mineral wool manufacturing	0.0	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Miscellaneous nonmetallic mineral products manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Iron and steel mills and ferroalloy manufacturing	0.0	0.8	0.0	0.8	0.0	0.2	0.0	0.2	0.0	1.0	0.0	1.0
Iron, steel pipe and tube manufacturing from purchased steel	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.3	0.0	0.3
Rolled steel shape manufacturing	0.0	0.2	0.0	0.2	0.0	0.3	0.0	0.3	0.0	0.5	0.0	0.5
Steel wire drawing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alumina refining and primary aluminum production	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Secondary smelting and alloying of aluminum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aluminum sheet, plate, and foil manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Other aluminum rolling, drawing and extruding	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonferrous metal (exc aluminum) smelting and refining	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Copper rolling, drawing, extruding and alloying	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonferrous metal, except copper and aluminum, shaping	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Secondary processing of other nonferrous metals	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Kentucky Cabinet for Economic Development
Office of Research and Public Affairs

Industry Sectors	Economic Impact Originating from Coal Counties, Kentucky (31 County)				Economic Impact Originating from Kentucky - Excluding Coal Counties (89 Counties)				Kentucky - Statewide (Inclusive of All County) (120 Counties)			
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Ferrous metal foundries	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.2
Nonferrous metal foundries	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2
Iron and steel forging	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Nonferrous forging	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Custom roll forming	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crown and closure manufacturing and metal stamping	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cutlery, utensil, pot, and pan manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hand tool manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Prefabricated metal buildings and components manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fabricated structural metal manufacturing	0.0	0.1	0.0	0.1	0.0	0.3	0.0	0.4	0.0	0.4	0.0	0.5
Plate work manufacturing	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2
Metal window and door manufacturing	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.3
Sheet metal work manufacturing	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.5	0.0	0.4	0.1	0.5
Ornamental and architectural metal work manufacturing	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.2
Power boiler and heat exchanger manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Metal tank (heavy gauge) manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Metal cans manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Metal barrels, drums and pails manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hardware manufacturing	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.2
Spring and wire product manufacturing	0.0	0.1	0.0	0.1	0.0	0.4	0.1	0.5	0.0	0.5	0.1	0.6
Machine shops	0.0	0.5	0.0	0.5	0.0	0.8	0.1	0.9	0.0	1.3	0.1	1.4
Turned product and screw, nut, and bolt manufacturing	0.0	0.0	0.0	0.0	0.0	6.6	0.0	6.6	0.0	6.6	0.0	6.6
Metal heat treating	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.2
Metal coating and nonprecious engraving	0.0	0.1	0.0	0.1	0.0	0.9	0.1	0.9	0.0	1.0	0.1	1.0
Electroplating, anodizing, and coloring metal	0.0	0.2	0.0	0.2	0.0	0.4	0.0	0.5	0.0	0.6	0.0	0.7
Valve and fittings, other than plumbing, manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Kentucky Cabinet for Economic Development
Office of Research and Public Affairs

Industry Sectors	Economic Impact Originating from Coal Counties, Kentucky (31 County)				Economic Impact Originating from Kentucky - Excluding Coal Counties (89 Counties)				Kentucky - Statewide (Inclusive of All County) (120 Counties)			
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Plumbing fixture fitting and trim manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ball and roller bearing manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Small arms ammunition manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ammunition, except for small arms, manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small arms, ordnance, and accessories manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fabricated pipe and pipe fitting manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Other fabricated metal manufacturing	0.0	0.2	0.0	0.2	0.0	0.5	0.0	0.6	0.0	0.7	0.0	0.8
Farm machinery and equipment manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Lawn and garden equipment manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction machinery manufacturing	0.0	0.0	0.0	0.0	0.0	4.6	0.0	4.6	0.0	4.6	0.0	4.6
Mining machinery and equipment manufacturing	0.0	3.0	0.0	3.0	0.0	3.7	0.0	3.7	0.0	6.7	0.0	6.7
Oil and gas field machinery and equipment manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Food product machinery manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Semiconductor machinery manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sawmill, woodworking, and paper machinery	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Printing machinery and equipment manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All other industrial machinery manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Optical instrument and lens manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Photographic and photocopying equipment manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other commercial service industry machinery manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Air purification and ventilation equipment manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1

Kentucky Cabinet for Economic Development
Office of Research and Public Affairs

Industry Sectors	Economic Impact Originating from Coal Counties, Kentucky (31 County)				Economic Impact Originating from Kentucky - Excluding Coal Counties (89 Counties)				Kentucky - Statewide (Inclusive of All County) (120 Counties)			
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Heating equipment (except warm air furnaces) manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Air conditioning, refrigeration, and warm air heating equipment manufacturing	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.0	0.2	0.0	0.3
Industrial mold manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Special tool, die, jig, and fixture manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cutting tool and machine tool accessory manufacturing	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	0.0	0.6	0.0	0.6
Machine tool manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Rolling mill and other metalworking machinery manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Turbine and turbine generator set units manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Speed changer, industrial high-speed drive, and gear manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mechanical power transmission equipment manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other engine equipment manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pump and pumping equipment manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Air and gas compressor manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Measuring and dispensing pump manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Elevator and moving stairway manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Conveyor and conveying equipment manufacturing	0.0	1.5	0.0	1.5	0.0	12.0	0.0	12.0	0.0	13.5	0.0	13.5
Overhead cranes, hoists, and monorail systems manufacturing	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.9	0.0	0.9	0.0	0.9
Industrial truck, trailer, and stacker manufacturing	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.0	0.2	0.0	0.3
Power-driven hand tool manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Welding and soldering equipment manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Packaging machinery manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Kentucky Cabinet for Economic Development
Office of Research and Public Affairs

Industry Sectors	Economic Impact Originating from Coal Counties, Kentucky (31 County)				Economic Impact Originating from Kentucky - Excluding Coal Counties (89 Counties)				Kentucky - Statewide (Inclusive of All County) (120 Counties)			
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Industrial process furnace and oven manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fluid power cylinder and actuator manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Fluid power pump and motor manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scales, balances, and miscellaneous general purpose machinery manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electronic computer manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1
Computer storage device manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Computer terminals and other computer peripheral equipment manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Telephone apparatus manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Broadcast and wireless communications equipment manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other communications equipment manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Audio and video equipment manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bare printed circuit board manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Semiconductor and related device manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Capacitor, resistor, coil, transformer, and other inductor manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electronic connector manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Printed circuit assembly (electronic assembly) manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other electronic component manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electromedical and electrotherapeutic apparatus manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Search, detection, and navigation instruments manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Automatic environmental control manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Kentucky Cabinet for Economic Development
Office of Research and Public Affairs

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	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Industrial process variable instruments manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Totalizing fluid meter and counting device manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Electricity and signal testing instruments manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Analytical laboratory instrument manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Irradiation apparatus manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Watch, clock, and other measuring and controlling device manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Blank magnetic and optical recording media manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Software and other prerecorded and record reproducing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric lamp bulb and part manufacturing	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2
Lighting fixture manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Small electrical appliance manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Household cooking appliance manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Household refrigerator and home freezer manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Household laundry equipment manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other major household appliance manufacturing	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.4
Power, distribution, and specialty transformer manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor and generator manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Switchgear and switchboard apparatus manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Relay and industrial control manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage battery manufacturing	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.3	0.0	0.2	0.1	0.3
Primary battery manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Kentucky Cabinet for Economic Development
Office of Research and Public Affairs

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	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Fiber optic cable manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other communication and energy wire manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Wiring device manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Carbon and graphite product manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All other miscellaneous electrical equipment and component manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Automobile manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.0	0.1	0.1	0.2
Light truck and utility vehicle manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1
Heavy duty truck manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor vehicle body manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck trailer manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor home manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Travel trailer and camper manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor vehicle gasoline engine and engine parts manufacturing	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.2	0.0	0.3	0.0	0.3
Motor vehicle electrical and electronic equipment manufacturing	0.0	0.4	0.1	0.4	0.0	1.1	0.1	1.3	0.0	1.5	0.2	1.7
Motor vehicle steering, suspension component (except spring), and brake systems manufacturing	0.0	0.0	0.0	0.0	0.0	5.0	0.3	5.3	0.0	5.0	0.3	5.3
Motor vehicle transmission and power train parts manufacturing	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.0	0.2	0.0	0.3
Motor vehicle seating and interior trim manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Motor vehicle metal stamping	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other motor vehicle parts manufacturing	0.0	0.4	0.0	0.5	0.0	1.8	0.1	1.9	0.0	2.2	0.1	2.4
Aircraft manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aircraft engine and engine parts manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other aircraft parts and auxiliary equipment manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Guided missile and space vehicle manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Kentucky Cabinet for Economic Development
Office of Research and Public Affairs

Industry Sectors	Economic Impact Originating from Coal Counties, Kentucky (31 County)				Economic Impact Originating from Kentucky - Excluding Coal Counties (89 Counties)				Kentucky - Statewide (Inclusive of All County) (120 Counties)			
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Propulsion units and parts for space vehicles and guided missiles manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Railroad rolling stock manufacturing	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	0.0	0.6	0.0	0.6
Ship building and repairing	0.0	0.6	0.0	0.6	0.0	0.2	0.0	0.2	0.0	0.8	0.0	0.8
Boat building	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motorcycle, bicycle, and parts manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Military armored vehicle, tank, and tank component manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All other transportation equipment manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wood kitchen cabinet and countertop manufacturing	0.0	0.0	0.0	0.1	0.0	0.2	0.2	0.4	0.0	0.2	0.2	0.5
Upholstered household furniture manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonupholstered wood household furniture manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other household nonupholstered furniture manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Institutional furniture manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wood office furniture manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Custom architectural woodwork and millwork	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office furniture, except wood, manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Showcase, partition, shelving, and locker manufacturing	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
Mattress manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Blind and shade manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Surgical and medical instrument manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Surgical appliance and supplies manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1
Dental equipment and supplies manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Kentucky Cabinet for Economic Development
Office of Research and Public Affairs

Industry Sectors	Economic Impact Originating from Coal Counties, Kentucky (31 County)				Economic Impact Originating from Kentucky - Excluding Coal Counties (89 Counties)				Kentucky - Statewide (Inclusive of All County) (120 Counties)			
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Ophthalmic goods manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dental laboratories	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1
Jewelry and silverware manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sporting and athletic goods manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Doll, toy, and game manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office supplies (except paper) manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sign manufacturing	0.0	0.3	0.2	0.5	0.0	0.1	0.1	0.2	0.0	0.4	0.3	0.7
Gasket, packing, and sealing device manufacturing	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.5	0.0	0.4	0.0	0.5
Musical instrument manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fasteners, buttons, needles, and pins manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Broom, brush, and mop manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Burial casket manufacturing	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
All other miscellaneous manufacturing	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.5	0.0	0.3	0.2	0.5
Wholesale trade	0.0	655.1	101.8	756.9	0.0	42.0	10.6	52.6	0.0	697.1	112.4	809.5
Retail - Motor vehicle and parts dealers	0.0	45.8	89.4	135.2	0.0	3.3	5.5	8.9	0.0	49.1	94.9	144.1
Retail - Furniture and home furnishings stores	0.0	3.9	26.8	30.7	0.0	0.5	2.0	2.5	0.0	4.4	28.8	33.2
Retail - Electronics and appliance stores	0.0	1.5	22.3	23.8	0.0	0.2	2.1	2.3	0.0	1.7	24.4	26.1
Retail - Building material and garden equipment and supplies stores	0.0	31.6	90.4	122.0	0.0	3.6	5.8	9.4	0.0	35.2	96.2	131.4
Retail - Food and beverage stores	0.0	17.3	197.0	214.3	0.0	0.8	11.4	12.2	0.0	18.1	208.4	226.5
Retail - Health and personal care stores	0.0	63.1	70.2	133.2	0.0	6.4	4.9	11.2	0.0	69.5	75.1	144.4
Retail - Gasoline stores	0.0	54.2	60.6	114.8	0.0	3.9	3.9	7.8	0.0	58.1	64.5	122.6
Retail - Clothing and clothing accessories stores	0.0	81.0	33.3	114.4	0.0	12.5	3.9	16.4	0.0	93.5	37.2	130.8
Retail - Sporting goods, hobby, musical instrument and book stores	0.0	18.9	30.6	49.5	0.0	3.4	2.9	6.3	0.0	22.3	33.5	55.8
Retail - General merchandise stores	0.0	62.2	200.5	262.7	0.0	7.7	13.4	21.0	0.0	69.9	213.9	283.7
Retail - Miscellaneous store retailers	0.0	101.3	85.8	187.0	0.0	11.3	6.4	17.7	0.0	112.6	92.2	204.7
Retail - Nonstore retailers	0.0	128.4	59.7	188.1	0.0	10.4	4.6	14.9	0.0	138.8	64.3	203.0
Air transportation	0.0	1.0	1.6	2.6	0.0	0.3	0.4	0.7	0.0	1.3	2.0	3.3
Rail transportation	0.0	669.6	1.4	671.0	0.0	96.0	0.2	96.3	0.0	765.6	1.6	767.3

Kentucky Cabinet for Economic Development
Office of Research and Public Affairs

Industry Sectors	Economic Impact Originating from Coal Counties, Kentucky (31 County)				Economic Impact Originating from Kentucky - Excluding Coal Counties (89 Counties)				Kentucky - Statewide (Inclusive of All County) (120 Counties)			
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Water transportation	0.0	11.6	0.6	12.2	0.0	7.3	0.1	7.4	0.0	18.9	0.7	19.6
Truck transportation	0.0	244.7	44.7	289.4	0.0	35.3	5.2	40.5	0.0	280.0	49.9	329.9
Transit and ground passenger transportation	0.0	9.8	14.0	23.8	0.0	2.8	1.5	4.2	0.0	12.6	15.5	28.0
Pipeline transportation	0.0	10.2	0.6	10.8	0.0	1.7	0.1	1.9	0.0	11.9	0.7	12.7
Scenic and sightseeing transportation and support activities for transportation	0.0	23.4	8.1	31.5	0.0	6.7	1.4	8.1	0.0	30.1	9.5	39.6
Couriers and messengers	0.0	42.7	13.6	56.4	0.0	12.4	3.5	16.0	0.0	55.1	17.1	72.4
Warehousing and storage	0.0	44.4	24.2	68.6	0.0	12.7	5.8	18.5	0.0	57.1	30.0	87.1
Newspaper publishers	0.0	14.4	12.6	27.0	0.0	1.3	0.9	2.1	0.0	15.7	13.5	29.1
Periodical publishers	0.0	0.6	0.8	1.4	0.0	0.2	0.2	0.4	0.0	0.8	1.0	1.8
Book publishers	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.2	0.0	0.0	0.4	0.4
Directory, mailing list, and other publishers	0.0	0.3	0.3	0.7	0.0	0.2	0.1	0.3	0.0	0.5	0.4	1.0
Greeting card publishing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Software publishers	0.0	0.0	0.2	0.3	0.0	0.0	0.1	0.1	0.0	0.0	0.3	0.4
Motion picture and video industries	0.0	1.6	6.2	7.8	0.0	0.1	0.4	0.5	0.0	1.7	6.6	8.3
Sound recording industries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Radio and television broadcasting	0.0	16.7	9.7	26.5	0.0	1.2	0.7	1.9	0.0	17.9	10.4	28.4
Cable and other subscription programming	0.0	1.0	0.9	1.9	0.0	0.1	0.1	0.1	0.0	1.1	1.0	2.0
Wired telecommunications carriers	0.0	15.1	28.2	43.3	0.0	1.4	2.1	3.5	0.0	16.5	30.3	46.8
Wireless telecommunications carriers (except satellite)	0.0	3.7	8.5	12.2	0.0	0.4	0.6	1.0	0.0	4.1	9.1	13.2
Satellite, telecommunications resellers, and all other telecommunications	0.0	0.4	0.6	1.0	0.0	0.2	0.3	0.5	0.0	0.6	0.9	1.5
Data processing, hosting, and related services	0.0	9.8	4.9	14.7	0.0	3.4	1.5	4.9	0.0	13.2	6.4	19.6
News syndicates, libraries, archives and all other information services	0.0	0.1	0.2	0.3	0.0	0.0	0.0	0.1	0.0	0.1	0.2	0.4
Internet publishing and broadcasting and web search portals	0.0	0.9	0.7	1.7	0.0	0.2	0.1	0.4	0.0	1.1	0.8	2.1
Monetary authorities and depository credit intermediation	0.0	156.6	101.2	257.8	0.0	6.5	6.5	13.1	0.0	163.1	107.7	270.9
Nondepository credit intermediation and related activities	0.0	116.0	50.9	167.0	0.0	10.6	3.4	14.0	0.0	126.6	54.3	181.0

Kentucky Cabinet for Economic Development
Office of Research and Public Affairs

Industry Sectors	Economic Impact Originating from Coal Counties, Kentucky (31 County)				Economic Impact Originating from Kentucky - Excluding Coal Counties (89 Counties)				Kentucky - Statewide (Inclusive of All County) (120 Counties)			
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Securities and commodity contracts intermediation and brokerage	0.0	42.9	12.3	55.2	0.0	4.2	2.1	6.3	0.0	47.1	14.4	61.5
Other financial investment activities	0.0	162.4	28.6	190.9	0.0	8.4	5.3	13.7	0.0	170.8	33.9	204.6
Insurance carriers	0.0	1.8	4.9	6.7	0.0	14.0	14.9	28.9	0.0	15.8	19.8	35.6
Insurance agencies, brokerages, and related activities	0.0	54.6	21.3	75.9	0.0	14.0	13.3	27.3	0.0	68.6	34.6	103.2
Funds, trusts, and other financial vehicles	0.0	1.0	19.3	20.2	0.0	0.3	2.6	2.8	0.0	1.3	21.9	23.0
Real estate	0.0	55.2	150.2	205.3	0.0	10.4	16.4	26.9	0.0	65.6	166.6	232.2
Owner-occupied dwellings	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Automotive equipment rental and leasing	0.0	2.5	2.4	4.9	0.0	1.1	0.8	1.9	0.0	3.6	3.2	6.8
General and consumer goods rental except video tapes and discs	0.0	11.4	15.0	26.4	0.0	1.6	1.1	2.7	0.0	13.0	16.1	29.1
Video tape and disc rental	0.0	0.0	1.1	1.1	0.0	0.0	0.1	0.1	0.0	0.0	1.2	1.2
Commercial and industrial machinery and equipment rental and leasing	0.0	69.8	0.8	70.6	0.0	15.4	0.4	15.8	0.0	85.2	1.2	86.4
Lessors of nonfinancial intangible assets	0.0	7.0	0.3	7.3	0.0	0.7	0.1	0.8	0.0	7.7	0.4	8.1
Legal services	0.0	182.4	51.6	234.1	0.0	4.8	4.1	8.9	0.0	187.2	55.7	243.0
Accounting, tax preparation, bookkeeping, and payroll services	0.0	173.5	34.1	207.6	0.0	15.5	4.5	20.0	0.0	189.0	38.6	227.6
Architectural, engineering, and related services	0.0	209.0	11.2	220.2	0.0	22.5	2.2	24.6	0.0	231.5	13.4	244.8
Specialized design services	0.0	1.3	0.5	1.8	0.0	3.2	1.0	4.2	0.0	4.5	1.5	6.0
Custom computer programming services	0.0	0.3	0.1	0.4	0.0	0.2	0.0	0.2	0.0	0.5	0.1	0.6
Computer systems design services	0.0	15.3	5.0	20.3	0.0	2.6	0.7	3.3	0.0	17.9	5.7	23.6
Other computer related services, including facilities management	0.0	9.7	4.6	14.3	0.0	1.9	0.8	2.6	0.0	11.6	5.4	16.9
Management consulting services	0.0	32.0	13.3	45.3	0.0	5.7	2.8	8.4	0.0	37.7	16.1	53.7
Environmental and other technical consulting services	0.0	10.5	3.5	14.0	0.0	3.3	1.2	4.5	0.0	13.8	4.7	18.5
Scientific research and development services	0.0	0.4	0.2	0.6	0.0	0.1	0.0	0.1	0.0	0.5	0.2	0.7
Advertising, public relations, and related services	0.0	10.7	6.1	16.8	0.0	3.0	1.5	4.5	0.0	13.7	7.6	21.3
Photographic services	0.0	1.3	5.7	7.0	0.0	0.4	0.6	1.0	0.0	1.7	6.3	8.0
Veterinary services	0.0	0.0	14.1	14.1	0.0	0.0	1.9	1.9	0.0	0.0	16.0	16.0
Marketing research and all other	0.0	22.1	4.9	27.0	0.0	5.7	1.4	7.2	0.0	27.8	6.3	34.2

Kentucky Cabinet for Economic Development
Office of Research and Public Affairs

Industry Sectors	Economic Impact Originating from Coal Counties, Kentucky (31 County)				Economic Impact Originating from Kentucky - Excluding Coal Counties (89 Counties)				Kentucky - Statewide (Inclusive of All County) (120 Counties)			
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
miscellaneous professional, scientific, and technical services												
Management of companies and enterprises	0.0	110.1	7.4	117.4	0.0	15.6	3.0	18.7	0.0	125.7	10.4	136.1
Office administrative services	0.0	32.6	16.2	48.8	0.0	7.1	3.8	10.8	0.0	39.7	20.0	59.6
Facilities support services	0.0	1.6	1.4	3.0	0.0	0.4	0.3	0.7	0.0	2.0	1.7	3.7
Employment services	0.0	102.7	78.0	180.7	0.0	51.3	36.1	87.4	0.0	154.0	114.1	268.1
Business support services	0.0	58.1	18.0	76.1	0.0	17.4	5.4	22.8	0.0	75.5	23.4	98.9
Travel arrangement and reservation services	0.0	6.5	2.7	9.2	0.0	2.9	0.6	3.5	0.0	9.4	3.3	12.7
Investigation and security services	0.0	54.5	31.6	86.0	0.0	2.8	1.8	4.6	0.0	57.3	33.4	90.6
Services to buildings	0.0	143.7	73.2	216.9	0.0	13.9	9.3	23.1	0.0	157.6	82.5	240.0
Landscape and horticultural services	0.0	57.0	39.0	96.0	0.0	6.0	4.3	10.3	0.0	63.0	43.3	106.3
Other support services	0.0	10.6	3.8	14.4	0.0	8.0	2.6	10.6	0.0	18.6	6.4	25.0
Waste management and remediation services	0.0	35.2	12.7	47.9	0.0	4.9	1.3	6.2	0.0	40.1	14.0	54.1
Elementary and secondary schools	0.0	0.0	12.9	12.9	0.0	0.0	1.4	1.4	0.0	0.0	14.3	14.3
Junior colleges, colleges, universities, and professional schools	0.0	1.2	82.4	83.6	0.0	0.2	5.3	5.4	0.0	1.4	87.7	89.0
Other educational services	0.0	0.8	31.6	32.3	0.0	0.3	4.8	5.1	0.0	1.1	36.4	37.4
Offices of physicians	0.0	0.0	200.3	200.3	0.0	0.0	12.7	12.7	0.0	0.0	213.0	213.0
Offices of dentists	0.0	0.0	59.3	59.3	0.0	0.0	4.2	4.2	0.0	0.0	63.5	63.5
Offices of other health practitioners	0.0	0.0	63.9	63.9	0.0	0.0	5.1	5.1	0.0	0.0	69.0	69.0
Outpatient care centers	0.0	0.0	55.1	55.1	0.0	0.0	3.1	3.1	0.0	0.0	58.2	58.2
Medical and diagnostic laboratories	0.0	0.0	9.4	9.4	0.0	0.0	1.3	1.3	0.0	0.0	10.7	10.7
Home health care services	0.0	0.0	62.0	62.0	0.0	0.0	4.1	4.1	0.0	0.0	66.1	66.1
Other ambulatory health care services	0.0	0.0	25.5	25.5	0.0	0.0	1.5	1.5	0.0	0.0	27.0	27.0
Hospitals	0.0	0.0	423.0	423.0	0.0	0.0	23.4	23.4	0.0	0.0	446.4	446.4
Nursing and community care facilities	0.0	0.0	204.7	204.7	0.0	0.0	11.4	11.4	0.0	0.0	216.1	216.1
Residential mental retardation, mental health, substance abuse and other facilities	0.0	0.0	54.4	54.4	0.0	0.0	2.6	2.6	0.0	0.0	57.0	57.0
Individual and family services	0.0	0.0	142.8	142.8	0.0	0.0	8.2	8.2	0.0	0.0	151.0	151.0
Community food, housing, and other relief services, including rehabilitation services	0.0	0.0	32.3	32.3	0.0	0.0	1.9	1.9	0.0	0.0	34.2	34.2

Kentucky Cabinet for Economic Development
Office of Research and Public Affairs

Industry Sectors	Economic Impact Originating from Coal Counties, Kentucky (31 County)				Economic Impact Originating from Kentucky - Excluding Coal Counties (89 Counties)				Kentucky - Statewide (Inclusive of All County) (120 Counties)			
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Child day care services	0.0	0.0	48.2	48.2	0.0	0.0	6.0	6.0	0.0	0.0	54.2	54.2
Performing arts companies	0.0	2.6	4.4	7.0	0.0	0.9	0.5	1.4	0.0	3.5	4.9	8.4
Commercial Sports Except Racing	0.0	2.8	6.9	9.7	0.0	1.3	1.8	3.1	0.0	4.1	8.7	12.8
Racing and Track Operation	0.0	0.0	1.2	1.2	0.0	0.0	0.1	0.1	0.0	0.0	1.3	1.3
Promoters of performing arts and sports and agents for public figures	0.0	2.6	6.6	9.3	0.0	0.7	0.7	1.4	0.0	3.3	7.3	10.7
Independent artists, writers, and performers	0.0	7.3	9.1	16.4	0.0	2.6	2.1	4.7	0.0	9.9	11.2	21.1
Museums, historical sites, zoos, and parks	0.0	0.0	1.4	1.4	0.0	0.0	0.6	0.6	0.0	0.0	2.0	2.0
Amusement parks and arcades	0.0	0.0	1.5	1.5	0.0	0.0	0.3	0.3	0.0	0.0	1.8	1.8
Gambling industries (except casino hotels)	0.0	0.0	12.7	12.7	0.0	0.0	1.5	1.5	0.0	0.0	14.2	14.2
Other amusement and recreation industries	0.0	1.8	19.5	21.3	0.0	0.9	2.1	3.0	0.0	2.7	21.6	24.3
Fitness and recreational sports centers	0.0	1.4	14.1	15.5	0.0	0.9	2.6	3.5	0.0	2.3	16.7	19.0
Bowling centers	0.0	0.0	3.8	3.8	0.0	0.0	0.3	0.3	0.0	0.0	4.1	4.1
Hotels and motels, including casino hotels	0.0	0.8	2.1	2.8	0.0	0.3	0.3	0.6	0.0	1.1	2.4	3.4
Other accommodations	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Full-service restaurants	0.0	31.8	250.6	282.4	0.0	8.0	24.6	32.7	0.0	39.8	275.2	315.1
Limited-service restaurants	0.0	42.8	386.5	429.3	0.0	5.3	24.4	29.7	0.0	48.1	410.9	459.0
All other food and drinking places	0.0	5.0	90.7	95.7	0.0	1.2	8.7	9.9	0.0	6.2	99.4	105.6
Automotive repair and maintenance, except car washes	0.0	24.0	118.6	142.6	0.0	2.3	7.5	9.8	0.0	26.3	126.1	152.4
Car washes	0.0	1.1	14.8	15.9	0.0	0.3	1.2	1.5	0.0	1.4	16.0	17.4
Electronic and precision equipment repair and maintenance	0.0	7.2	4.0	11.2	0.0	3.2	1.4	4.6	0.0	10.4	5.4	15.8
Commercial and industrial machinery and equipment repair and maintenance	0.0	14.6	10.1	24.7	0.0	2.9	1.4	4.3	0.0	17.5	11.5	29.0
Personal and household goods repair and maintenance	0.0	22.0	13.1	35.0	0.0	4.8	2.4	7.2	0.0	26.8	15.5	42.2
Personal care services	0.0	0.0	89.3	89.3	0.0	0.0	7.3	7.3	0.0	0.0	96.6	96.6
Death care services	0.0	0.0	11.8	11.8	0.0	0.0	0.7	0.7	0.0	0.0	12.5	12.5
Dry-cleaning and laundry services	0.0	1.9	13.5	15.3	0.0	0.5	1.5	2.0	0.0	2.4	15.0	17.3
Other personal services	0.0	5.0	55.3	60.3	0.0	1.6	6.5	8.2	0.0	6.6	61.8	68.5

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	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total
Religious organizations	0.0	0.0	7.5	7.5	0.0	0.0	0.5	0.5	0.0	0.0	8.0	8.0
Grant making, giving, and social advocacy organizations	0.0	0.2	22.5	22.7	0.0	0.1	1.7	1.8	0.0	0.3	24.2	24.5
Business and professional associations	0.0	9.0	5.4	14.5	0.0	3.4	1.3	4.7	0.0	12.4	6.7	19.2
Labor and civic organizations	0.0	0.3	33.5	33.7	0.0	0.0	2.4	2.4	0.0	0.3	35.9	36.1
Private households	0.0	0.0	86.8	86.8	0.0	0.0	4.0	4.0	0.0	0.0	90.8	90.8
Postal service	0.0	35.9	18.2	54.1	0.0	4.5	1.6	6.1	0.0	40.4	19.8	60.2
Federal electric utilities	0.0	11.6	3.0	14.6	0.0	0.6	0.1	0.7	0.0	12.2	3.1	15.3
Other federal government enterprises	0.0	0.0	0.0	0.0	0.0	1.9	0.9	2.7	0.0	1.9	0.9	2.7
State government passenger transit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
State government electric utilities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other state government enterprises	0.0	0.5	1.4	1.9	0.0	0.2	0.3	0.4	0.0	0.7	1.7	2.3
Local government passenger transit	0.0	0.0	0.0	0.0	0.0	2.3	1.2	3.5	0.0	2.3	1.2	3.5
Local government electric utilities	0.0	12.9	3.3	16.2	0.0	1.1	0.2	1.3	0.0	14.0	3.5	17.5
Other local government enterprises	0.0	15.9	49.0	64.9	0.0	1.9	2.9	4.7	0.0	17.8	51.9	69.6