OHIO'S CREATIVE ECONOMY: THE ECONOMIC IMPACT OF THE ARTS AND CREATIVE INDUSTRIES 2018



CENTER FOR REGIONAL DEVELOPMENT BOWLING GREEN STATE UNIVERSITY

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EXECUTIVE SUMMARY

The creative industries are much more than a regional amenity; they have become significant economic engines. As technology and outsourcing continues to displace manufacturing workers, the technology, service, and creative sectors have emerged as drivers of regional economies. The educated, highly-skilled workforce propelling these emerging sectors has become an increasingly important factor in regional economic development strategies. Creativity, innovation and knowledge creation are now central to economic prosperity.

The creative industries in Ohio have experienced significant growth in the past few years. They now account for more than \$41 billion in economic activity and they support 289,000 jobs annually. Independent artists and performers enjoyed a 60 percent increase in output since 2015. Architecture, performing arts companies, media reproduction and museums all enjoyed significant increases in output.

Results in Brief:

- Creative industries contribute more than \$41.4 billion to Ohio's economy annually
- Creative industries support 289,321 jobs in Ohio's economy annually
- Creative industries generate \$1.57 billion in state and local tax revenue annually
- Creative industries generate \$3.05 billion in federal tax revenues annually
- 70% of the creative industries' impact was located in Ohio's six metropolitan areas (Cleveland,

Six Categories of the Creative Industries

- Museums and Collections;
- Performing Arts;
- Visual Arts/Photography;
- Film, Radio, and Television;
- Design and Publishing;
- · Schools and Services.

Columbus, Cincinnati, Toledo, Akron and Youngstown)

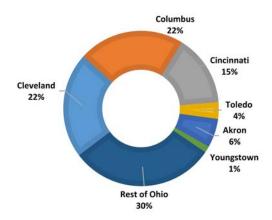
Much has been written as to which industries should be labeled "creative." To simplify the analysis and give the study a sense of continuity, the industries selected are those identified by the *Americans for the Arts*. The creative industries can be assembled into six categories. (See box) The six primary sectors are comprised of more than fifty subsectors of the local economy. Some of the sectors, such as museums and performing arts, are associated with the

fine arts and others have more commercial applications such as graphic design and advertising.

Columbus and Cleveland have the largest concentration of creative activity. Each enjoy more than \$9.1 billion in annual economic impact from the creative industries. Cincinnati receives \$6.1 billion, Akron \$2.4 billion, Toledo \$1.4 billion and Youngstown \$0.5 billion.

The economic impact of the creative industries is not just in urban areas. Rural counties make up nearly thirty percent of the creative economy with more than \$12 billion in annual economic activity.

Location of the Creative Activity



This defies popular perception that creative activity is primarily an urban phenomenon. Many creative industries do require relatively high levels of population density be economically viable. Museums and performing arts centers are examples of these industries. They are highly dependent on visitor attendance revenue to be successful. However, advances in technology has allowed rural regions to support once urban-centric industries. For example, recording studios can now be set up in homes of musicians and sound engineers and do not require access to large urban populations.

	Output	Employment	Labor Income
State of Ohio	\$41,413,670,041	289,321	\$13,874,981,076
Columbus (MSA)	\$9,141,516,710	60,011	\$3,026,626,377
Cleveland (MSA)	\$9,112,194,964	62,499	\$3,377,249,570
Cincinnati (MSA)	\$6,161,386,559	38,659	\$2,059,959,611
Akron (MSA)	\$2,495,806,409	17,608	\$768,331,202
Toledo (MSA)	\$1,440,087,245	12,065	\$466,756,532
Youngstown (MSA)	\$549,081,749	4,794	\$143,965,046

The creative economy's influence extends beyond firms and individuals in the creative industries. The urban landscape and how the region is perceived by others across the nation is also impacted. This process drives the formation of new cultural districts and influences the retention and attraction of an educated, highly skilled workforce. A region's creative "buzz" plays a large role in the decision making process of firms looking to expand or relocate.

Introduction

A city buzzing with creativity during the day that offers plenty of entertainment options at night attracts not only those who work in the creative economy, but an educated, highly-skilled labor pool working in a broad cross-section of industries who want to embrace a creative lifestyle when not on the clock.¹ The attraction of this growing workforce, plus retention of the existing one, drives a region's economy by creating new firms, fueling the expansion of existing firms, or attracting firms from outside the region.² The wealth of internationally-recognized art museums and performance venues, an unending string of critically acclaimed bands and music festivals, the plethora of designers, photographers, and filmmakers creating cutting-edge promotional work for national brands – these are just some of the things continuing to elevate the perception of Ohio as a hub of creativity, attracting both employees and firms.

Methodology

This section outlines the general methodology used to calculate the economic impact. A brief discussion of the models employed is followed by a description of the pertinent data used in the economic calculations. The primary data which includes industry employment levels and local demographic characteristics is taken from state and national data sources.

General Economic Forecasting Model Specification

This study employed an Input/Output model to make the primary economic forecasts. Input/Output methodology allows the examination of forward and backward linkages that are present in any regional economy. The model measures the total annual economic activity that results from inter- and intra-industry transactions. The model breaks the economy into approximately 500 separate sectors with each sector representing an individual industry. It then uses a sectoring scheme developed by the IMPLAN Group and is closely related to the Bureau of Economic Analysis (BEA) REIS model. The model is an approximate 500 by 500 (row x column) matrix that shows all the economic activity between the individual sectors. The entries in the matrix are based on the dollar amount that each industry sells to (and purchases from) other industries in the Ohio economy. It measures the amount of final consumption by the residents of the region, as well as how much each industry exports from the area. The model uses data collected at the county level, which are obtained from the IMPLAN Group and the BEA. County data is in turn aggregated or

¹ Currid, E. (2009). Bohemia as Subculture; "Bohemia" as Industry: Art, Culture, and Economic Development. *Journal of Planning Literature*, 23 (4), 368–382.

² Florida, R. (2002). 2002. The Rise of the Creative Class: And How It's Transforming Work, Leisure, Community and Everyday Life. New York, NY: Basic Books.

"rolled-up" to form service areas such as local areas, states or larger geographic regions such as the Midwest. Input/Output models estimate economic impacts by taking advantage of the relatively stable patterns in the flow of goods and services within the economy. Predictions can be made of an industry's total economic impact by examining the purchasing patterns of the individual sectors. The BEA collects extensive data on these regional trade flows and reports their findings annually.

Primary Data

Once the primary (direct) impact is identified, it is necessary to estimate the ultimate impact on the economy. This study's forecasting model utilizes variables from a variety of national data sets. To reduce potential confusion, a specific definition of the major variables may be of use. The primary data in this study is 2017 data that has been adjusted to 2018 price levels.

Industry Output

Industry output represents the value of the industry's total production. Industry output can be thought of as the value of industry sales plus or minus inventory changes. It should be emphasized that industry output is not a measure of an industry's income and therefore, cannot be directly compared to the Gross State Product (GSP) numbers reported by the BEA. The value of industry output is typically higher than GSP. It is a more comprehensive measure and therefore, is a better measure of true economic impacts. The IMPLAN model estimates the industry output data, which is derived from the U.S. Census Bureaus' Economic Census, the Annual Survey of Manufacturers, and the Bureau of Labor Statistics growth model.

Employment

Employment is the total number of full-time wage and salary employees, plus the number of self-employed workers within a particular industry. Part-time workers' hours are aggregated into full-time equivalents (2,080 hours) and reported with the full-time workers.

Industries Selected

The region's creative economy is comprised of everyone who works for creative firms and enterprises - e.g., advertising agencies, museums, music studios - whether or not they are directly engaged in the process of developing creative content or products, as well as those who perform creative work on a contractual basis for firms in other industries. For example, the region's creative economy includes a graphic designer employed full-time at the large advertising firm and a principal dancer for a ballet theater. Further, it also includes a videographer who is working freelance on the weekend, completing a corporate training video for Nationwide Insurance. Prior work by Americans for the Arts, a national research and advocacy group, the New England Foundation for the Arts, and data from the Bureau of Labor Statistics, the U.S. Census, and the Bureau of

1	Table 1				
America	ns for the Arts				
Creative Industry Categories					
Museums and Collections	Visual Arts/Photography				
Museums	Stone, Clay, and Glass				
Zoos and Botanical	Jewelry				
Historical Society	Stained Glass				
Planetarium	Textiles				
	Home Furnishing Crafts				
Performing Arts	Artist Studios				
Music Groups	Art Galleries				
Orchestras	Studios				
Composing and Arranging	Commercial Photography				
Recording/Playback Equipment	Photo Finishing Labs				
Recorded Music Sales	Photography Equipment				
Studios	Retail Stores				
Concert Management	Services and Supplies				
Instruments (mfg/distribution)					
Professional Companies	Film, Radio, and Television				
Amateur Companies	Production				
Dance Companies	Distribution				
Opera Companies	Services				
Costume/Scenery Rental	Equipment				
Theatrical Productions	Theaters				
Casting and Booking Agents	Video Tape Rentals				
Ticket Agencies	Television Stations				
Performing Arts Centers	Radio Stations				
Dance Halls and Studios	Producers				
Theatrical Equipment	Disk Jockeys				
Entertainers					
Actors	Schools and Services				
	Arts Councils				
Design and Publishing	Art Schools				
Architects	Arts and Crafts Instruction				
Architecture Supplies	Dance Schools and Instruction				
Commercial and Industrial	Music and Drama Schools				
Interior	Agents and Brokers				
House	Patents and Licensing				
Art Periodicals					
Arts Publishing					
Books					
Book Clubs					
Advertising Agencies					
Display Products					

Economic Analysis were used to help model which industries are in Ohio's creative economy. To simplify the analysis and give the study a sense of continuity, the industries selected are those identified by the Americans for The Arts. (See Table 1 for Industry Detail)

This study uses the IMPLAN model to calculate the economic impacts. IMPLAN breaks the economy into 536 sectors each representing a group of industrial classifications. Most of the IMPLAN sectors contain a number of sub categories. All of the Americans for the Arts industries listed in Table 1 are contained in the IMPLAN sectors shown in Table 2.

Understanding Multipliers

Once the analytical framework is established and the scale and scope of the creative economy quantified

in terms of workforce by industrial sector, it is possible to estimate its economic impacts on the region by using IMPLAN input-output economic modeling software.

IMPLAN is an industry standard tool used to calculate the <u>direct</u>,

Table 2 IMPLAN Industry Sectors				
Radio and television broadcasting	Promoters of performing arts			
Advertising and related services	Independent artists, writers, and performers			
Specialized design services	Performing arts companies			
Ornamental and architectural metal work manufacturing	Sound recording industries			
Motion picture and video industries	Book publishers and newspapers			
Museums	Custom architectural woodwork and millwork			
Photographic services	Musical instrument manufacturing			
Video tape and disc retail	Cable networks and program distribution			
Sign manufacturing	Audio and video media reproduction			

<u>indirect</u>, and <u>induced</u> impacts of spending and employment. To better understand this process, a brief look at how impacts for a creative firm's operations are calculated is helpful. When an advertising agency spends money to pay employee salaries, buy supplies, and cover other operating expenses, it is creating the <u>direct</u> effect. When the businesses that supply the advertising agency with goods or services (e.g., accounting firm) pay their employees or purchase supplies, they create the <u>indirect</u> effect. When employees of the advertising agency and its supporting businesses spend their income, this causes the <u>induced</u> effect. When combined, the activity from the direct, indirect, and induced impacts is referred to as the "multiplier effect."

Creative Industries as an Economic Engine

The economic impact of Ohio's creative economy is substantial. In 2017 the creative enterprises and individuals generated \$41 billion of economic activity that supported 289,321 jobs. The activity also generated \$1.6 billion in state and local taxes and more than \$3 billion in Federal taxes. The creative industries generated \$13.9 billion in labor income.

Table 3							
	Annual Economic Impact on the State of Ohio						
Impact Type	Employment	Labor Income	Value Added	Output			
Direct Effect	143,360	\$7,065,692,627	\$10,664,765,472	\$21,438,256,535			
Indirect Effect	72,954	\$3,628,095,888	\$5,626,374,718	\$9,826,308,581			
Induced Effect	73,006	\$3,181,192,561	\$5,834,429,213	\$10,149,104,925			
Total Effect	289,321	\$13,874,981,076	\$22,125,569,403	\$41,413,670,041			

The creative economy generated \$13.8 billion in labor income (employee wages and proprietor income). Total employment in the creative sector is 289,321 with 143,360 being directly employed in the creative

Table 4					
Annual Taxes Generated					
Description	State and Local	Federal			
Employee Compensation	\$31,896,627	\$1,247,434,806			
Proprietor Income	N/A ³	\$126,936,558			
Tax on Production and Imports	\$1,143,743,846	\$154,514,470			
Households	\$387,619,189	\$975,660,579			
Corporations	\$14,387,746	\$547,940,275			
Total:	\$1,577,647,408	\$3,052,486,688			

sectors and 72,954 employed in the supply chain (indirect). An additional 73,006 jobs are created through the consumer spending of the direct and indirect employees.

The creative industries generate considerable tax revenues for federal and local governments. Employee compensation generates \$31 million in state and local tax

revenues and more than \$1.2 billion in Federal revenue annually. The largest portion of state and local revenues come from taxes on production and imports. Taxes on production includes sales and excise taxes, customs duties, property taxes, severance taxes, and special assessments. Also, households pay significantly more state and local taxes than corporations. Households generate \$388 million and corporations only \$14 million. This is likely due to the labor intensity of the creative industries.

While creative activity varies across regions, the advertising and public relations sector generated the most economic impact (see Table 5) in Ohio generating more than \$4.9 billion dollars across the state. Other prominent industries include internet publishing, book publishing and radio and television broadcasting. It is also interesting to see museums and historical sites generating a significant (\$541 million; 7,213 jobs) economic impact. This suggests that despite the impact of digital technologies for the consumption of the arts as *physical* products, there is increasing demand for the arts as *experiential* products.

	Table 5						
Top Creat	Top Creative Industries in Ohio by Output						
Description	Direct (\$)	Indirect (\$)	Induced (\$)	Total (\$)			
Advertising, public relations, and related services	\$4,414,180,532	\$498,022,885	\$44,806,158	\$4,957,009,575			
Internet publishing and broadcasting and web services	\$2,619,387,387	\$317,523,197	\$28,244,572	\$2,965,155,156			
Book publishers	\$1,892,837,021	\$26,111,294	\$19,931,094	\$1,938,879,409			
Radio and television broadcasting	\$1,693,215,789	\$313,219,056	\$16,200,168	\$2,022,635,013			
Specialized design services	\$1,559,057,923	\$109,629,911	\$10,178,475	\$1,678,866,309			
Newspaper publishers	\$1,214,424,859	\$107,191,896	\$14,403,728	\$1,336,020,483			
Promoters of performing arts and sports and agents	\$1,152,999,432	\$261,096,231	\$18,599,380	\$1,432,695,043			

³ State and local proprietor income taxes are captured in the other categories.

Architectural, engineering, and related services	\$1,148,438,309	\$126,085,254	\$36,746,539	\$1,311,270,101
Motion picture and video industries	\$1,148,201,728	\$106,213,493	\$10,946,378	\$1,265,361,599
Independent artists, writers, and performers	\$931,033,780	\$332,966,759	\$10,619,848	\$1,274,620,387
Performing arts companies	\$766,852,094	\$6,494,004	\$14,013,759	\$787,359,858
Sign manufacturing	\$570,385,191	\$21,855,798	\$1,565,610	\$593,806,599
Museums, historical sites, zoos, and parks	\$532,470,014	\$0	\$9,464,045	\$541,934,059
Photographic services	\$485,148,400	\$43,570,659	\$8,500,807	\$537,219,866
Ornamental and architectural metal work manufacturing	\$371,550,296	\$1,001,315	\$409,610	\$372,961,220

In terms of total employment (see Table 6) independent artists, writers, and performers led the state in employment. This sector has 27,506 directly employed and a total of 37,656 in total jobs supported.

Table 6							
Top Creative Industries in Ohio by Employment							
Description	Direct	Indirect	Induced	Total			
Independent artists, writers, and performers	27,506	9,837	314	37,656			
Advertising, public relations, and related services	21,570	2,434	219	24,223			
Specialized design services	14,161	996	92	15,249			
Newspaper publishers	8,787	776	104	9,666			
Promoters of performing arts and sports and agents	8,733	1,978	141	10,851			
Photographic services	8,230	739	144	9,113			
Radio and television broadcasting	7,783	1,449	75	9,307			
Architectural, engineering, and related serv	7,232	794	231	8,257			
Museums, historical sites, zoos, and parks	7,087	0	126	7,213			
Motion picture and video industries	6,768	638	66	7,471			
Performing arts companies	6,485	55	119	6,659			
Internet publishing and broadcasting and web services	5,247	636	57	5,940			
Sign manufacturing	5,119	196	14	5,329			
Book publishers	2,936	41	31	3,008			
Ornamental and architectural metal work manufacturing	1,754	5	2	1,760			

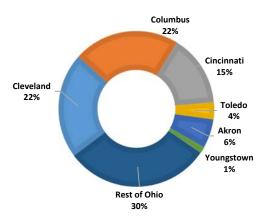
One surprise is to see employment in newspaper publishers fourth on the list in Table 6 with 9,666 jobs. Employment in this sector has significantly decreased (-20%) in recent years yet it remains a strong driver in the Ohio economy.

Regional Impacts

The creative industries are distributed across the Ohio economy. Columbus and Cleveland have the largest concentration of creative activity. Each enjoy more than \$9.1 billion in annual economic impact from the creative industries. Cincinnati receives \$6.1 billion, Akron \$2.4 billion, Toledo \$1.4 billion and Youngstown \$0.5 billion.

The economic impact of the creative industries is not just in urban areas. Rural counties make up nearly thirty percent of the creative economy with more than \$12 billion in annual

Location of the Creative Activity



economic activity. This defies popular perception that creative activity is primarily an urban phenomenon. Many creative industries do require relatively high levels of population density to be economically viable. Museums and performing arts centers are examples of these industries. They are highly dependent on visitor attendance revenue to be successful. However, advances in technology has allowed rural regions to support once urban-centric industries. For example, recording studios can now be set up in homes of musicians and sound engineers and do not require access to large urban populations.

Table 7							
	Regional Economic Impacts						
Output Employment Labor Income							
State of Ohio	\$41,413,670,041	289,321	\$13,874,981,076				
Columbus (MSA)	\$9,141,516,710	60,011	\$3,026,626,377				
Cleveland (MSA)	\$9,112,194,964	62,499	\$3,377,249,570				
Cincinnati (MSA)	\$6,161,386,559	38,659	\$2,059,959,611				
Akron (MSA)	\$2,495,806,409	17,608	\$768,331,202				
Toledo (MSA)	\$1,440,087,245	12,065	\$466,756,532				
Youngstown (MSA)	\$549,081,749	4,794	\$143,965,046				

The following sections will provide detail on the creative economics of six of the MSAs in Ohio. All have unique characteristics and a different industrial mix. While most have strengths in traditional creative drivers such as advertising and public relations, other excel in some of the smaller creative sectors. For example, Cincinnati has a high concentration of book publishers and specialized design services. Toledo is strong in Ornamental and architectural metal work manufacturing and Youngstown has musical instrument manufacturing in their top industries.

Columbus MSA⁴

The creative economy generates \$9.1 billion in the Columbus MSA. It supports 60,011 jobs and supplies more than \$3 billion in wages and proprietor income. Advertising and public relations lead the creative industries. The sector is responsible for \$1.1 billion dollars and supports 5,338 jobs in the Columbus MSA.

Table 8							
	Results Summary						
Columbus MSA							
Impact Type	Employment	Labor Income	Value Added	Output			
Direct Effect	29,217	\$1,555,190,693	\$2,630,521,109	\$4,898,313,185			
Indirect Effect	15,922	\$798,943,846	\$1,277,075,895	\$2,167,120,985			
Induced Effect	14,872	\$672,491,838	\$1,239,525,452	\$2,076,082,540			
Total Effect	60,011	\$3,026,626,377	\$5,147,122,456	\$9,141,516,710			

Table 9						
Top 15 Creative Industries in Columbus by Output						
	Direct	Indirect	Induced	Total		
Advertising, public relations, and related services	\$1,017,133,894	\$124,026,225	\$10,826,363	\$1,151,986,481		
Book publishers	\$725,459,584	\$10,960,451	\$4,836,499	\$741,256,534		
Internet publishing and broadcasting and web services	\$565,078,955	\$74,288,483	\$6,342,785	\$645,710,224		
Specialized design services	\$467,314,911	\$26,484,795	\$2,336,703	\$496,136,409		
Radio and television broadcasting	\$304,973,561	\$60,196,292	\$3,154,143	\$368,323,995		
Motion picture and video industries	\$286,256,185	\$34,354,282	\$3,193,056	\$323,803,523		
Architectural, engineering, and related services	\$238,648,020	\$31,914,447	\$9,055,165	\$279,617,631		
Newspaper publishers	\$223,626,283	\$21,299,598	\$2,857,524	\$247,783,404		
Promoters of performing arts and sports and agents	\$163,289,814	\$41,832,901	\$3,203,941	\$208,326,656		
Independent artists, writers, and performers	\$145,815,325	\$56,137,746	\$1,955,356	\$203,908,427		
Periodical publishers	\$141,376,388	\$10,040,518	\$2,015,846	\$153,432,752		
Museums, historical sites, zoos, and parks	\$115,667,514	\$0	\$1,977,266	\$117,644,780		
Performing arts companies	\$108,217,659	\$1,067,809	\$2,328,299	\$111,613,767		
Sign manufacturing	\$90,042,891	\$3,314,920	\$255,974	\$93,613,785		
Photographic services	\$78,149,974	\$8,296,848	\$1,578,974	\$88,025,796		

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⁴ Columbus MSA includes the counties of Delaware, Fairfield, Franklin, Hocking, Licking, Madison, Morrow, Perry, Pickaway, and Union.

	Table 10					
Top 15 Creative Industries in Columbus by Employment						
	Direct	Indirect	Induced	Total		
Independent artists, writers, and performers	5,334	2,054	72	7,459		
Advertising, public relations, and related s	4,713	575	50	5,338		
Specialized design services	3,559	202	18	3,779		
Motion picture and video industries	1,622	195	18	1,835		
Promoters of performing arts and sports and	1,595	409	31	2,035		
Museums, historical sites, zoos, and parks	1,570	0	27	1,597		
Architectural, engineering, and related serv	1,469	196	56	1,722		
Newspaper publishers	1,436	137	18	1,591		
Radio and television broadcasting	1,359	268	14	1,641		
Photographic services	1,277	136	26	1,438		
Internet publishing and broadcasting and web	1,137	149	13	1,299		
Performing arts companies	1,003	10	22	1,034		
Book publishers	996	15	7	1,018		
Sign manufacturing	862	32	2	896		
Periodical publishers	372	26	5	404		

The mix of creative industries reflects the region's service sector economic core. Publishing and design services are well represented as is architectural services, performing arts and museums. Manufacturing related sectors are not large drivers in the Columbus economy. Only sign manufacturing made the top fifteen list and it is a relatively small sector.

Cleveland MSA⁵

The creative economy generates \$9.1 billion in the Cleveland MSA. It supports 62,499 jobs and supplies more than \$3.3 billion in wages and proprietor income. Advertising and public relations lead the creative industries. The sector is responsible for \$1.0 billion dollars and supports 4,716 jobs in the Cleveland MSA.

	Table 11							
Cleveland MSA								
Impact Type	Employment	Labor Income	Value Added	Output				
Direct Effect	31,248	\$1,783,900,463	\$2,499,393,462	\$4,740,521,449				
Indirect Effect	15,473	\$863,498,804	\$1,331,638,787	\$2,178,821,381				
Induced Effect	15,778	\$729,850,303	\$1,327,305,042	\$2,192,852,134				
Total Effect	62,499	\$3,377,249,570	\$5,158,337,291	\$9,112,194,964				

Table 12					
Top 15 Crea	tive Industries in (Cleveland by Ou	tput		
	Direct	Indirect	Induced	Total	
Advertising, public relations, and related services	\$935,286,864	\$100,304,895	\$10,525,599	\$1,046,117,357	
Promoters of performing arts and sports and agents	\$580,273,984	\$83,843,907	\$6,620,141	\$670,738,032	
Periodical publishers	\$429,757,929	\$26,867,260	\$5,212,832	\$461,838,021	
Radio and television broadcasting	\$388,803,517	\$77,878,405	\$4,224,089	\$470,906,012	
Specialized design services	\$304,858,670	\$24,145,754	\$2,445,613	\$331,450,038	
Independent artists, writers, and performers	\$274,655,969	\$94,498,993	\$2,849,424	\$372,004,386	
Architectural, engineering, and related services	\$249,011,177	\$32,074,787	\$9,295,401	\$290,381,364	
Internet publishing and broadcasting and web services	\$245,672,905	\$24,644,959	\$2,951,233	\$273,269,097	
Performing arts companies	\$208,587,849	\$1,459,679	\$3,709,427	\$213,756,954	
Book publishers	\$191,181,713	\$2,012,516	\$3,034,531	\$196,228,760	
Motion picture and video industries	\$182,653,704	\$15,590,038	\$2,115,572	\$200,359,313	
Newspaper publishers	\$179,973,988	\$15,053,871	\$2,568,973	\$197,596,832	
Photographic services	\$118,000,382	\$9,289,160	\$2,064,672	\$129,354,214	
Museums, historical sites, zoos, and parks	\$106,516,101	\$0	\$2,175,562	\$108,691,663	
Sign manufacturing	\$99,167,736	\$3,042,468	\$286,995	\$102,497,200	

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⁵ Cleveland MSA includes the counties of Cuyahoga County, Geauga County, Lake County, Lorain County, and Medina County.

7	able 13			
Top 15 Creative Industri	es in Cleveland	d by Employme	ent	
	Direct	Indirect	Induced	Total
Independent artists, writers, and performers	6,795	2,338	70	9,203
Advertising, public relations, and related services	4,216	452	47	4,716
Promoters of performing arts and sports and agents	3,011	435	34	3,480
Specialized design services	2,931	232	24	3,187
Radio and television broadcasting	1,806	362	20	2,187
Architectural, engineering, and related serv	1,502	193	56	1,752
Periodical publishers	1,461	91	18	1,570
Performing arts companies	1,432	10	25	1,467
Photographic services	1,365	107	24	1,496
Newspaper publishers	1,334	112	19	1,465
Museums, historical sites, zoos, and parks	1,277	0	26	1,303
Motion picture and video industries	1,149	98	13	1,260
Sign manufacturing	898	28	3	928
Internet publishing and broadcasting and web services	529	53	6	588
Book publishers	381	4	6	391

Cleveland is in a virtual tie with Columbus for creative economy output with both regions producing \$9.1 billion. However, Cleveland generates 62,499 jobs whereas Columbus generates 60,011. This higher employment level creates higher labor income. Cleveland's creative industries generates \$3.4 billion in wages and proprietor income. Independent artists, writers, and performers are the largest employment sector with 9,203 jobs supported. Promoters of performing arts and sports agents are a large industry in the Cleveland region. They generate \$670 million in economic impact and support 3,480 jobs.

Cincinnati MSA⁶

The creative economy generates \$6.1 billion in the Cincinnati MSA. It supports 38,659 jobs and supplies more than \$2 billion in wages and proprietor income. Advertising and public relations lead the creative industries. The sector is responsible for \$996 million dollars and supports 4,534 jobs in the Cincinnati MSA.

	Table 14							
Cincinnati MSA								
Impact Type	Employment	Labor Income	Value Added	Output				
Direct Effect	19,442	\$1,113,320,005	\$1,974,630,589	\$3,469,491,475				
Indirect Effect	9,663	\$503,397,640	\$825,280,355	\$1,349,188,413				
Induced Effect	9,553	\$443,241,966	\$824,500,810	\$1,342,706,672				
Total Effect	38,659	\$2,059,959,611	\$3,624,411,755	\$6,161,386,559				

	Table 15			
Top 15 Creative I	ndustries in Cir	ncinnati by Out	put	
	Direct	Indirect	Induced	Total
Advertising, public relations, and related services	\$888,217,019	\$99,288,040	\$8,879,307	\$996,384,367
Book publishers	\$398,233,457	\$3,975,831	\$2,685,779	\$404,895,068
Radio and television broadcasting	\$297,340,932	\$59,315,283	\$2,990,492	\$359,646,707
Specialized design services	\$270,334,408	\$17,920,739	\$1,589,584	\$289,844,731
Motion picture and video industries	\$242,946,607	\$22,674,532	\$1,895,649	\$267,516,787
Newspaper publishers	\$231,197,165	\$13,652,384	\$1,835,239	\$246,684,788
Periodical publishers	\$202,587,601	\$10,802,678	\$2,262,790	\$215,653,069
Internet publishing and broadcasting and web services	\$157,042,323	\$11,449,730	\$1,263,060	\$169,755,112
Performing arts companies	\$139,444,695	\$1,025,371	\$2,388,964	\$142,859,030
Sign manufacturing	\$131,961,583	\$2,870,092	\$210,779	\$135,042,454
Promoters of performing arts and sports and agents	\$127,312,121	\$23,821,744	\$2,040,325	\$153,174,189
Museums, historical sites, zoos, and parks	\$99,571,019	\$0	\$1,387,726	\$100,958,746
Custom architectural woodwork and millwork	\$63,413,020	\$58,211	\$964	\$63,472,195
Ornamental and architectural metal work manufacturing	\$49,581,332	\$81,896	\$30,893	\$49,694,121
Photographic services	\$42,856,404	\$6,451,671	\$1,126,936	\$50,435,011

⁶ Cincinnati MSA includes the counties of Brown County, Ohio; Butler County, Ohio; Clermont County, Ohio; Clinton County, Ohio; Hamilton County, Ohio; Warren County, Ohio; Boone County, Kentucky; Bracken County, Kentucky; Campbell County, Kentucky; Gallatin County, Kentucky; Grant County, Kentucky; Kenton County, Kentucky; Mason County, Kentucky; Pendleton County, Kentucky; Dearborn County, Indiana; Franklin County, Indiana; Ohio County, Indiana.

Table 16					
Top 15 Creative Industries	in Cincinnati	by Employme	nt		
	Direct	Indirect	Induced	Total	
Advertising, public relations, and related services	4,042	452	40	4,534	
Specialized design services	2,345	155	14	2,514	
Independent artists, writers, and performers	1,758	1,446	43	3,248	
Motion picture and video industries	1,424	133	11	1,568	
Museums, historical sites, zoos, and parks	1,180	0	16	1,196	
Promoters of performing arts and sports and agents	1,138	213	18	1,369	
Radio and television broadcasting	1,049	209	11	1,269	
Newspaper publishers	1,026	61	8	1,095	
Performing arts companies	992	7	17	1,016	
Sign manufacturing	975	21	2	998	
Photographic services	717	108	19	844	
Periodical publishers	683	36	8	727	
Book publishers	678	7	5	689	
Custom architectural woodwork and millwork	377	0	0	377	
Internet publishing and broadcasting and web services	347	25	3	375	

Independent artists, writers and performers have a strong employment influence in the MSA supporting 3,248 jobs annually. The participation in the industry must be fairly small operations as they did not make the top fifteen list in terms of output. The same is true for museums. They support 1,196 jobs annually but also failed to make the top fifteen in terms of output. The top output producers were advertising, book publishing and radio and television broadcasting. The region does excel in the architectural and building areas with strong custom architectural woodwork and ornamental and architectural metal work manufacturing.

Akron MSA⁷

The creative economy generates \$1.4 billion in the Akron MSA. It supports 17,608 jobs and supplies more than \$768 million in wages and proprietor income. Advertising and public relations lead the creative industries. The sector is responsible for \$339 million dollars and supports 1,766 jobs in the Akron MSA.

		Table 17		
Akron MSA				
Impact Type	Employment	Labor Income	Value Added	Output
Direct Effect	9,502	\$423,158,529	\$721,703,094	\$1,467,505,987
Indirect Effect	4,454	\$190,348,805	\$299,969,896	\$543,090,491
Induced Effect	3,653	\$154,823,869	\$281,007,049	\$485,209,930
Total Effect	17,608	\$768,331,202	\$1,302,680,039	\$2,495,806,409

Table 18					
Top 15 Cr	eative Industries	in Akron - Outp	out		
	Direct	Indirect	Induced	Total	
Advertising, public relations, and related services	\$305,076,018	\$31,951,234	\$2,275,669	\$339,302,920	
Periodical publishers	\$189,746,287	\$11,666,061	\$1,397,703	\$202,810,051	
Internet publishing and broadcasting and web services	\$152,260,608	\$17,321,328	\$1,238,189	\$170,820,126	
Book publishers	\$149,890,081	\$1,971,699	\$1,155,047	\$153,016,828	
Architectural, engineering, and related services	\$79,061,184	\$9,409,923	\$2,046,767	\$90,517,875	
Sign manufacturing	\$65,943,722	\$1,995,562	\$129,825	\$68,069,109	
Newspaper publishers	\$65,930,354	\$5,418,587	\$638,256	\$71,987,197	
Radio and television broadcasting	\$65,822,247	\$10,030,207	\$478,440	\$76,330,894	
Independent artists, writers, and performers	\$63,884,138	\$21,421,098	\$581,976	\$85,887,212	
Specialized design services	\$62,484,681	\$6,066,345	\$414,603	\$68,965,630	
Motion picture and video industries	\$57,896,384	\$5,685,105	\$498,022	\$64,079,511	
Performing arts companies	\$37,821,414	\$330,341	\$585,666	\$38,737,421	
Museums, historical sites, zoos, and parks	\$31,476,281	\$0	\$484,474	\$31,960,755	
Ornamental and architectural metal work manufacturing	\$28,937,748	\$25,159	\$5,190	\$28,968,097	
Promoters of performing arts and sports and agents	\$17,584,038	\$3,907,358	\$251,226	\$21,742,621	

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⁷ Akron MSA includes the counties of Portage County, Summit County.

	Table 19			
Top 15 Creative Ind	ustries in Akr	on Employm	ent	
	Direct	Indirect	Induced	Total
Independent artists, writers, and performers	2,037	683	19	2,738
Advertising, public relations, and related services	1,588	166	12	1,766
Specialized design services	777	75	5	857
Periodical publishers	549	34	4	587
Newspaper publishers	547	45	5	598
Sign manufacturing	538	16	1	555
Architectural, engineering, and related services	499	59	13	571
Museums, historical sites, zoos, and parks	435	0	7	442
Performing arts companies	403	4	6	413
Motion picture and video industries	380	37	3	421
Radio and television broadcasting	320	49	2	371
Internet publishing and broadcasting and web services	316	36	3	355
Photographic services	298	30	5	333
Book publishers	181	2	1	185
Promoters of performing arts and sports and agents	174	39	2	215

Akron is a relatively small MSA but it still has a strong creative economy. Independent artists, writers, and performers is the largest employment block with 2,738 jobs. Publishing related industries are strong in Akron. Book publishing, internet publishing and periodical publishing have large output and employment impacts in Akron. Akron also has a significant manufacturing presence with large impacts in sign manufacturing and ornamental and architectural metal work manufacturing.

Toledo MSA⁸

The creative economy generates \$831 million in the Toledo MSA. It supports 12,065 jobs and supplies more than \$466 million in wages and proprietor income. Advertising and public relations lead the creative industries. The sector is responsible for \$183 million dollars and supports 944 jobs in the Toledo MSA.

		Table 20		
Toledo MSA				
Impact Type	Employment	Labor Income	Value Added	Output
Direct Effect	7,160	\$269,154,651	\$355,154,027	\$831,091,893
Indirect Effect	2,720	\$109,409,854	\$188,302,762	\$326,114,670
Induced Effect	2,185	\$88,192,027	\$164,761,922	\$282,880,682
Total Effect	12,065	\$466,756,532	\$708,218,711	\$1,440,087,245

Table 21					
Top 15 Creative	e Industries in T	oledo by Outp	ut		
	Direct	Indirect	Induced	Total	
Advertising, public relations, and related services	\$168,061,865	\$14,589,703	\$972,071	\$183,623,639	
Radio and television broadcasting	\$83,383,707	\$13,593,902	\$458,051	\$97,435,660	
Newspaper publishers	\$82,434,555	\$5,579,047	\$524,506	\$88,538,108	
Museums, historical sites, zoos, and parks	\$79,210,422	\$0	\$346,107	\$79,556,529	
Architectural, engineering, and related services	\$69,484,703	\$6,971,174	\$1,174,324	\$77,630,201	
Motion picture and video industries	\$45,821,434	\$3,461,660	\$270,178	\$49,553,272	
Ornamental and architectural metal work manufacturing	\$39,911,247	\$20,988	\$3,399	\$39,935,634	
Specialized design services	\$38,660,629	\$2,585,865	\$163,753	\$41,410,247	
Internet publishing and broadcasting and web	\$35,609,577	\$2,747,880	\$228,331	\$38,585,788	
Performing arts companies	\$35,285,152	\$234,368	\$383,617	\$35,903,136	
Photographic services	\$30,464,747	\$1,722,447	\$265,583	\$32,452,777	
Independent artists, writers, and performers	\$27,508,446	\$8,687,465	\$194,411	\$36,390,322	
Promoters of performing arts and sports and agents	\$21,724,981	\$4,528,950	\$232,404	\$26,486,336	
Sign manufacturing	\$18,411,074	\$430,923	\$27,957	\$18,869,953	
Periodical publishers	\$15,956,274	\$770,054	\$127,337	\$16,853,665	

⁸ Toledo MSA include the counties of Fulton, Lucas, and Wood.

	Table 22			
Top 15 Creative Inc	dustries in Tole	do by Employm	ent	
	Direct	Indirect	Induced	Total
Museums, historical sites, zoos, and parks	1,168	0	5	1,173
Independent artists, writers, and performers	1,106	349	8	1,463
Advertising, public relations, and related services	864	75	5	944
Newspaper publishers	578	39	4	621
Photographic services	540	31	5	575
Architectural, engineering, and related services	448	45	8	500
Specialized design services	447	30	2	478
Radio and television broadcasting	435	71	2	508
Performing arts companies	354	2	4	360
Motion picture and video industries	313	24	2	339
Promoters of performing arts and sports and agents	230	48	2	280
Ornamental and architectural metal work manufacturing	192	0	0	192
Sign manufacturing	167	4	0	171
Internet publishing and broadcasting and web	83	6	1	90
Periodical publishers	75	4	1	79

It is interesting to note that museums led the employment category employing 1,173 people. Independent artists, writers, and performers was also a leading employer in the Toledo economy. Toledo also has strong design, architectural and photographic service sectors. Toledo also has a significant manufacturing presence with the sign manufacturing and ornamental and architectural metal work sector. Finally, Toledo's motion picture and video industries is a significant driver. It directly employs 339 people and generates more than \$49.5 million in economic activity.

Youngstown MSA⁹

The creative economy generates \$341 million in the Youngstown MSA. It supports 4,794 jobs and supplies more than \$143 million in wages and proprietor income. Radio and television broadcasting leads the creative industries. The sector is responsible for \$8 million dollars and supports 376 jobs in the Youngstown MSA.

		Table 23		
Youngstown MSA				
Impact Type	Employment	Labor Income	Value Added	Output
Direct Effect	2,880	\$82,724,012	\$130,163,470	\$341,127,516
Indirect Effect	1,188	\$35,097,153	\$57,941,739	\$123,132,252
Induced Effect	726	\$26,143,881	\$48,108,167	\$84,821,981
Total Effect	4,794	\$143,965,046	\$236,213,376	\$549,081,749

Table 24				
Top 15 Creative Industries in Youngstown by Output				
	Direct	Indirect	Induced	Total
Radio and television broadcasting	\$72,425,201	\$11,598,559	\$238,468	\$84,262,229
Advertising, public relations, and related services	\$36,845,007	\$5,076,975	\$254,810	\$42,176,793
Promoters of performing arts and sports and agents	\$29,019,579	\$5,881,461	\$191,642	\$35,092,682
Newspaper publishers	\$28,803,554	\$1,421,330	\$108,553	\$30,333,437
Motion picture and video industries	\$26,202,391	\$1,705,650	\$69,785	\$27,977,826
Sign manufacturing	\$24,430,739	\$329,626	\$15,788	\$24,776,153
Periodical publishers	\$19,515,209	\$556,924	\$64,493	\$20,136,626
Book publishers	\$15,260,337	\$41,241	\$35,803	\$15,337,381
Internet publishing and broadcasting and web services	\$10,230,978	\$788,957	\$51,227	\$11,071,162
Performing arts companies	\$9,736,393	\$50,138	\$57,939	\$9,844,470
Retail - musical instruments	\$9,669,118	\$30,745	\$292,815	\$9,992,678
Ornamental and architectural metal work manufacturing	\$7,750,971	\$1,807	\$400	\$7,753,178
Photographic services	\$6,861,505	\$424,895	\$82,801	\$7,369,201
Specialized design services	\$6,170,849	\$205,294	\$19,072	\$6,395,215
Musical instrument manufacturing	\$6,086,974	\$31,606	\$949	\$6,119,529

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⁹ The Youngstown MSA includes Mahoning and Trumbull counties in Ohio and Mercer County in Pennsylvania.

Table 25						
Top 15 Creative Indus	Top 15 Creative Industries in Youngstown by Employment					
	Direct	Indirect	Induced	Total		
Radio and television broadcasting	323	52	1	376		
Promoters of performing arts and sports and agents	315	64	2	381		
Newspaper publishers	301	15	1	317		
Independent artists, writers, and performers	271	132	2	405		
Advertising, public relations, and related services	242	33	2	277		
Motion picture and video industries	197	13	1	210		
Sign manufacturing	183	2	0	186		
Retail - hobby, musical instruments	174	1	5	180		
Photographic services	132	8	2	142		
Other educational services	123	19	7	149		
Performing arts companies	121	1	1	122		
Specialized design services	94	3	0	97		
Periodical publishers	89	3	0	92		
Museums, historical sites, zoos, and parks	67	0	0	67		
Ornamental and architectural metal work manufacturing	40	0	0	40		

Youngstown has the smallest creative impact of the all the MSAs in this report. It does however have a unique niche not seen in the other MSAs. Youngstown has a strong musical instrument sector. It has a musical instrument manufacturing sector as well as a strong musical instrument retail sector. The mix of the other creative industries is about what we see in the larger MSAs. Advertising is significant as is promoters and performing arts companies.

Appendix

Economic Impact by Industry

Sector	Description	Total (\$)	Employment
1	Oilseed farming	\$689,022	2
2	Grain farming	\$2,813,674	18
3	Vegetable and melon farming	\$2,096,320	16
4	Fruit farming	\$532,854	10
5	Tree nut farming	\$1,614	0
6	Greenhouse, nursery, and floriculture produc	\$3,141,569	31
7	Tobacco farming	\$2,000	0
8	Cotton farming	\$0	0
9	Sugarcane and sugar beet farming	\$2,553	0
10	All other crop farming	\$1,858,365	72
11	Beef cattle ranching and farming, including	\$3,626,464	57
12	Dairy cattle and milk production	\$5,099,758	18
13	Poultry and egg production	\$7,228,548	18
14	Animal production, except cattle and poultry	\$3,852,883	72
15	Forestry, forest products, and timber tract	\$22,195	0
16	Commercial logging	\$2,183,138	27
17	Commercial fishing	\$43,509	4
	-		
18	Commercial hunting and trapping	\$423,303	9
19	Support activities for agriculture and fores	\$886,563	18
20	Extraction of natural gas and crude petroleu	\$17,626,536	158
21	Extraction of natural gas liquids	\$9,893,785	13
22	Coal mining	\$1,448,275	2
23	Iron ore mining	\$51,463	0
24	Gold ore mining	\$0	0
25	Silver ore mining	\$0	0
26	Lead and zinc ore mining	\$0	0
27	Copper ore mining	\$0	0
28	Uranium-radium-vanadium ore mining	\$0	0
29	Other metal ore mining	\$0	0
30	Stone mining and quarrying	\$3,664,462	11
31	Sand and gravel mining	\$1,950,663	6
32	Other clay, ceramic, refractory minerals min	\$41,788	0
33	Potash, soda, and borate mineral mining	\$0	0
34	Phosphate rock mining	\$0	0
35	Other chemical and fertilizer mineral mining	\$50,557	0
36	Other nonmetallic minerals	\$25,077	0
37	Drilling oil and gas wells	\$32,788	0
38	Support activities for oil and gas operation	\$4,731,625	32
39	Metal mining services	\$29,641	0
40	Other nonmetallic minerals services	\$194,091	1
		-	
41	Electric power generation - Hydroelectric	\$41,149	<u> </u>
42	Electric power generation - Fossil fuel	\$108,454,716	57
43	Electric power generation - Nuclear	\$24,702,099	21
44	Electric power generation - Solar	\$155,534	1
45	Electric power generation - Wind	\$1,598,807	0
46	Electric power generation - Geothermal	\$0	0
47	Electric power generation - Biomass	\$709,694	1
48	Electric power generation - All other	\$327,123	1
49	Electric power transmission and distribution	\$272,404,859	161
50	Natural gas distribution	\$45,455,778	54
51	Water, sewage and other systems	\$11,109,552	37
52	Construction of new health care structures	\$0	0
53	Construction of new manufacturing structures	\$0	0
54	Construction of new power and communication	\$0	0
55	Construction of new educational and vocation	\$0	0

Sector	Description	Total (\$)	Employment
56	Construction of new highways and streets	\$0	0
57	Construction of new commercial structures, i	\$0	0
58	Construction of other new nonresidential str	\$0	0
59	Construction of new single-family residentia	\$0	0
60	Construction of new multifamily residential	\$0	0
61	Construction of other new residential struct	\$0	0
62	Maintenance and repair construction of nonre	\$159,876,359	1,026
63	Maintenance and repair construction of resid	\$75,161,826	449
64	Maintenance and repair construction of highw	\$0	0
65	Dog and cat food manufacturing	\$4,186,060	2
66	Other animal food manufacturing	\$6,783,816	5
67	Flour milling	\$2,697,250	2
68	Rice milling	\$0	0
69	Malt manufacturing	\$0	0
70	Wet corn milling	\$1,948,465	1
71	Soybean and other oilseed processing	\$1,614,790	0
72	Fats and oils refining and blending	\$612,384	0
73	Breakfast cereal manufacturing	\$1,320,788	1
74	Beet sugar manufacturing	\$255,837	0
75	Sugar cane mills and refining	\$84,826	0
76	Nonchocolate confectionery manufacturing	\$669,366	2
77	Chocolate and confectionery manufacturing fr	\$80,659	0
78	Confectionery manufacturing from purchased c	\$1,034,326	3
79	Frozen fruits, juices and vegetables manufac	\$448,486	1
80	Frozen specialties manufacturing	\$10,200,150	26
81	Canned fruits and vegetables manufacturing	\$4,847,486	9
82	Canned specialties	\$3,398,202	4
83	Dehydrated food products manufacturing	\$0	0
84	Fluid milk manufacturing	\$14,628,246	17
85	Creamery butter manufacturing	\$239,875	0
86	Cheese manufacturing	\$3,400,577	3
87	Dry, condensed, and evaporated dairy product	\$11,652,788	6
88	Ice cream and frozen dessert manufacturing	\$2,120,229	5
89	Animal, except poultry, slaughtering	\$5,093,318	7
90	Meat processed from carcasses	\$20,242,366	35
91	Rendering and meat byproduct processing	\$216,966	0
92	Poultry processing	\$10,670,943	34
93	Seafood product preparation and packaging	\$233,421	1
94	Bread and bakery product, except frozen, man	\$10,593,017	81
95	Frozen cakes and other pastries manufacturin	\$519,301	2
96	Cookie and cracker manufacturing	\$5,650,280	14
97	Dry pasta, mixes, and dough manufacturing	\$1,509,688	2
98	Tortilla manufacturing	\$80,236	0
99	Roasted nuts and peanut butter manufacturing	\$6,536,956	8
100			o 14
	Other snack food manufacturing	\$10,720,958	
101	Coffee and tea manufacturing	\$181,260	0
102	Flavoring syrup and concentrate manufacturin	\$2,252,119	1
103	Mayonnaise, dressing, and sauce manufacturin	\$1,382,202	2
104	Spice and extract manufacturing	\$1,038,979	2
105	All other food manufacturing	\$3,135,732	9
106	Bottled and canned soft drinks & water	\$36,313,758	43
107	Manufactured ice	\$531,215	4
108	Breweries	\$27,948,359	23
109	Wineries	\$1,370,163	5
110	Distilleries	\$151,842	0

Sector	Description	Total (\$)	Employment
111	Tobacco product manufacturing	\$0	0
112	Fiber, yarn, and thread mills	\$9,705	0
113	Broadwoven fabric mills	\$54,524	0
114	Narrow fabric mills and schiffli machine emb	\$23,781	0
115	Nonwoven fabric mills	\$145,320	0
116	Knit fabric mills	\$0	0
117	Textile and fabric finishing mills	\$191,296	1
118	Fabric coating mills	\$73,034	0
119	Carpet and rug mills	\$6,807	0
120	Curtain and linen mills	\$240,317	1
121	Textile bag and canvas mills	\$243,722	1
122	Rope, cordage, twine, tire cord and tire fab	\$24,969	0
123	Other textile product mills	\$241,170	2
124	Hosiery and sock mills	\$0	0
125	Other apparel knitting mills	\$0	0
126	Cut and sew apparel contractors	\$42,847	1
127	Mens and boys cut and sew apparel manufactur	\$283,287	2
128	Womens and girls cut and sew apparel manufac	\$129,566	1
120	Other cut and sew apparel manufacturing	\$139,493	<u> </u>
130	Apparel accessories and other apparel manufa	\$37,167	0
131			0
	Leather and hide tanning and finishing	\$6,524	0
132	Footwear manufacturing	\$1,695	
133	Other leather and allied product manufacturi	\$34,186	0
134	Sawmills	\$7,262,583	27
135	Wood preservation	\$1,001,285	2
136	Veneer and plywood manufacturing	\$2,567,266	9
137	Engineered wood member and truss manufacturi	\$1,989,581	9
138	Reconstituted wood product manufacturing	\$759,014	2
139	Wood windows and door manufacturing	\$6,281,118	29
140	Cut stock, resawing lumber, and planing	\$1,840,096	7
141	Other millwork, including flooring	\$4,620,482	22
142	Wood container and pallet manufacturing	\$3,171,050	22
143	Manufactured home (mobile home) manufacturin	\$1,156	0
144	Prefabricated wood building manufacturing	\$271,726	1
145	All other miscellaneous wood product manufac	\$1,609,947	10
146	Pulp mills	\$39,690	0
147	Paper mills	\$11,869,721	15
148	Paperboard mills	\$3,488,589	4
149	Paperboard container manufacturing	\$27,730,138	60
150	Paper bag and coated and treated paper manuf	\$9,935,154	20
151	Stationery product manufacturing	\$2,011,867	5
152	Sanitary paper product manufacturing	\$3,230,887	4
153	All other converted paper product manufactur	\$545,280	2
154	Printing	\$276,339,672	1,612
155	Support activities for printing	\$12,187,105	91
156	Petroleum refineries	\$145,673,936	17
157	Asphalt paving mixture and block manufacturi	\$2,736,978	2
158	Asphalt shingle and coating materials manufa	\$3,501,846	2
159	Petroleum lubricating oil and grease manufac	\$7,510,323	3
160	All other petroleum and coal products manufa	\$3,125,274	1
161	Petrochemical manufacturing	\$371,013	0
162	Industrial gas manufacturing	\$8,034,822	8
163	Synthetic dye and pigment manufacturing	\$2,281,324	2
164	Other basic inorganic chemical manufacturing	\$2,059,096	2
165	Other basic organic chemical manufacturing	\$2,376,528	1

Sector Description Total (\$) Employment 166 Plastics material and resin manufacturing \$3,985,558 2 167 Synthetic rubber manufacturing \$614,794 1 168 Artificial and synthetic fibers and filament \$2,86,40 0 169 Nitrogenous fertilizer manufacturing \$9,563,023 6 170 Prelitizer ministry \$770,230 0 171 Fertilizer ministry \$19,76,100 3 172 Pesticide and other agricultural chemical ma \$176,090 0 173 Medicinal and boating annufacturing \$37,058,205 24 174 Pharmaceutical preparation manufacturing \$37,059,205 24 175 In vitro diagnostic substance manufacturing \$27,069,00 0 176 Biological product (except diagnostic) manuf \$70,609 0 177 Palin and coating manufacturing \$14,432,691 17 178 Adhesive manufacturing \$14,326,81 17 180 Polis and other santitation and annufacturing				
167 Synthetic rubber manufacturing \$214,640 0 168 Artificial and synthetic fibers and filament \$2,8640 0 169 Nitrogenous fertilizer manufacturing \$9,563,023 6 170 Phosphatic fertilizer manufacturing \$1,976,160 3 171 Fertilizer mixing \$1,976,160 3 172 Pesticide and obter agricultural chemical ma \$176,090 0 173 Medicinal and botancial manufacturing \$34,490 0 174 Pharmaceutical preparation manufacturing \$37,058,205 24 175 In-vitro diagnostic substance manufacturing \$248,887 1 176 Biological product (except diagnostic) manuf \$70,609 0 177 Paint and coating manufacturing \$14,432,691 17 178 Adhesive manufacturing \$218,438 3 179 Soap and other detergent manufacturing \$17,819,894 12 180 Polish and other santitation good manufacturing \$218,430 0 180 Polish and other santitatiou			* * *	Employment
168			\$3,985,558	2
169 Nitrogenous fertilizer manufacturing \$9,563,023 6 170 Phosphatic fertilizer manufacturing \$770,230 0 171 Fettilizer mixing \$1,976,160 3 172 Pesticide and other agricultural chemical ma \$176,090 0 173 Medicinal and botanical manufacturing \$37,058,205 24 175 In-vitro diagnostic substance manufacturing \$224,887 1 176 Biological product (except diagnostic) manuf \$70,609 0 177 Paint and coating manufacturing \$14,432,691 17 178 Archesive manufacturing \$2,164,898 3 180 Polish and other saritation good manufacturi \$4,308,727 7 181 Surface active agent manufacturing \$6,998,310 8 182 Toilet preparation manufacturing \$6,998,310 8 183 Printing ink manufacturing \$5,549,627 11 184 Explosives manufacturing \$6,998,310 8 185 Custom compounding of purchased resins \$	167		\$614,794	1
170 Phosphatic fertilizer mixing \$770,230 0 171 Fertilizer mixing \$1,976,160 3 172 Pesticide and other agricultural chemical ma \$176,090 0 173 Medicinal and botanical manufacturing \$54,490 0 174 Pharmaceutical preparation manufacturing \$37,082,05 24 175 Iin-vitro diagnostic substance manufacturing \$284,887 1 176 Biological product (except diagnostic) manul \$70,609 0 177 Paint and coating manufacturing \$14,432,691 17 178 Adhesive manufacturing \$2164,898 3 179 Soap and other detergent manufacturing \$17,819,894 12 180 Polish and other sanitation good manufacturi \$4,308,727 7 181 Surface active agent manufacturing \$6,998,310 8 182 Toilet preparation manufacturing \$55,549,627 11 184 Explosives manufacturing \$6,998,310 8 185 Custom compounding of purchased resins	168	Artificial and synthetic fibers and filament	\$28,640	0
171 Fertilizer mixing \$1,976,160 3 172 Pesticide and other agricultural chemical ma \$176,090 0 173 Medicinal and botanical manufacturing \$54,490 0 174 Pharmaceutical preparation manufacturing \$37,058,205 24 175 In-vitro diagnostic substance manufacturing \$284,887 1 176 Biological product (except diagnostic) manuf \$70,609 0 177 Paint and coating manufacturing \$14,432,691 17 178 Adhesive manufacturing \$2,164,898 3 179 Soap and other detergent manufacturing \$17,819,894 12 180 Polsh and other sanitation good manufacturing \$2,743,308 12 181 Sufface active agent manufacturing \$6,998,310 8 182 Toilet preparation manufacturing \$6,998,310 8 183 Printing ink manufacturing \$5,549,627 11 184 Explosives manufacturing \$3,432,745 6 186 Puscisic packaging materials and unlaminated <td>169</td> <td>Nitrogenous fertilizer manufacturing</td> <td>\$9,563,023</td> <td>6</td>	169	Nitrogenous fertilizer manufacturing	\$9,563,023	6
172 Pesticide and other agricultural chemical ma \$176,090 0 173 Medicinal and botanical manufacturing \$54,490 0 174 Pharmaceutical preparation manufacturing \$37,058,205 24 175 In-vitro diagnostic substance manufacturing \$284,887 1 176 Biological product (except diagnostic) manuf \$70,609 0 177 Paint and coating manufacturing \$14,432,691 17 178 Adhesive manufacturing \$17,819,894 12 180 Polish and other sanitation good manufacturi \$4,308,727 7 181 Surface active agent manufacturing \$218,430 0 182 Toilet preparation manufacturing \$6,998,310 8 183 Printing ink manufacturing \$5,549,627 11 184 Explosives manufacturing \$6,998,310 8 185 Custom compounding of purchased resins \$6,998,310 8 186 Chrotographic film and chemical manufacturing \$4,329,745 6 187 Other photographic film	170	Phosphatic fertilizer manufacturing	\$770,230	0
173 Medicinal and botanical manufacturing \$37,058,205 24 174 Pharmaceutical preparation manufacturing \$237,058,205 24 175 In-vitro diagnostic substance manufacturing \$284,887 1 176 Biological product (except diagnostic) manuf \$70,609 0 177 Paint and coating manufacturing \$11,432,691 17 178 Adhesive manufacturing \$21,64,898 3 179 Soap and other detergent manufacturing \$17,819,894 12 180 Polish and other sanitation good manufacturing \$218,430 0 181 Surface active agent manufacturing \$2,98,310 8 182 Toliel preparation manufacturing \$6,998,310 8 183 Printing ink manufacturing \$6,998,402 11 184 Explosives manufacturing \$6,998,402 11 185 Custom compounding of purchased resins \$2,743,346 4 186 Photographic film and chemical manufacturing \$4,329,745 6 187 Other miscellaleneous chemi	171	Fertilizer mixing	\$1,976,160	3
173 Medicinal and botanical manufacturing \$37,058,205 24 174 Pharmaceutical preparation manufacturing \$237,058,205 24 175 In-vitro diagnostic substance manufacturing \$284,887 1 176 Biological product (except diagnostic) manuf \$70,609 0 177 Paint and coating manufacturing \$11,432,691 17 178 Adhesive manufacturing \$21,64,898 3 179 Soap and other detergent manufacturing \$17,819,894 12 180 Polish and other sanitation good manufacturing \$218,430 0 181 Surface active agent manufacturing \$2,98,310 8 182 Toliel preparation manufacturing \$6,998,310 8 183 Printing ink manufacturing \$6,998,402 11 184 Explosives manufacturing \$6,998,402 11 185 Custom compounding of purchased resins \$2,743,346 4 186 Photographic film and chemical manufacturing \$4,329,745 6 187 Other miscellaleneous chemi	172	Pesticide and other agricultural chemical ma	\$176,090	0
175 In-vitro diagnostic substance manufacturing \$284,887 1 176 Biological product (except diagnostic) manuf \$70,809 0 177 Paint and coating manufacturing \$14,432,691 17 178 Adhesive manufacturing \$2,164,898 3 179 Soap and other detergent manufacturing \$17,819,894 12 180 Polish and other sanitation good manufacturi \$4,308,727 7 181 Surface active agent manufacturing \$218,430 0 182 Toliet preparation manufacturing \$6,993,310 8 183 Printing ink manufacturing \$6,993,310 8 184 Explosives manufacturing \$66,954 0 185 Custom compounding of purchased resins \$2,743,346 4 186 Photographic film and chemical manufacturing \$4,329,745 6 187 Other miscellaleneous chemical manufacturing \$4,329,745 6 180 Pulsatics packaging materials and unlaminated \$7,544,485 14 189 Unational particula	173			0
175 In-vitro diagnostic substance manufacturing \$284,887 1 176 Biological product (except diagnostic) manuf \$70,809 0 177 Paint and coating manufacturing \$14,432,691 17 178 Adhesive manufacturing \$2,164,898 3 179 Soap and other detergent manufacturing \$17,819,894 12 180 Polish and other sanitation good manufacturi \$4,308,727 7 181 Surface active agent manufacturing \$218,430 0 182 Toliet preparation manufacturing \$6,993,310 8 183 Printing ink manufacturing \$6,993,310 8 184 Explosives manufacturing \$66,954 0 185 Custom compounding of purchased resins \$2,743,346 4 186 Photographic film and chemical manufacturing \$4,329,745 6 187 Other miscellaleneous chemical manufacturing \$4,329,745 6 180 Pulsatics packaging materials and unlaminated \$7,544,485 14 189 Unational particula	174	Pharmaceutical preparation manufacturing	\$37,058,205	24
176 Biological product (except diagnostic) manuf \$70,609 0 177 Paint and coating manufacturing \$14,432,691 17 178 Adhesive manufacturing \$2,164,898 3 179 Soap and other detergent manufacturing \$17,819,894 12 180 Polish and other sanitation good manufacturi \$4,308,727 7 181 Surface active agent manufacturing \$6,982 0 182 Toillet preparation manufacturing \$6,98,310 8 183 Printing ink manufacturing \$6,98,310 8 184 Explosives manufacturing \$66,954 0 185 Custom compounding of purchased resins \$2,743,346 4 186 Photographic film and chemical manufacturing \$4,329,745 6 187 Other miscellaneous chemical product manufacturing \$7,260,322 10 188 Plastics packaging materials and unlaminated \$7,260,322 10 189 Unlaminated plastics profile shape manufacturing \$3,2542,652 5 191 Laminate	175			1
177 Paint and coating manufacturing \$14,432,691 17 178 Adhesive manufacturing \$2,164,898 3 179 Soap and other detergent manufacturing \$17,819,884 12 180 Polish and other sanitation good manufacturi \$4,308,727 7 181 Surface active agent manufacturing \$218,430 0 182 Toilet preparation manufacturing \$6,998,310 8 183 Printing ink manufacturing \$6,998,310 8 184 Explosives manufacturing \$6,998,310 8 185 Custom compounding of purchased resins \$2,743,346 4 186 Photographic film and chemical manufacturing \$4,329,745 6 187 Other miscellaneous chemical product manufactur. \$7,260,322 10 188 Plastics packaging materials and unlaminated \$7,544,485 14 189 Unlaminated plastics product manufacturing \$2,542,652 5 191 Laminated plastics plate, sheet (except pack \$3,097,372 8 192 Polystyr	176		\$70,609	0
4778 Adhesive manufacturing \$2,164,898 3 179 Soap and other detergent manufacturing \$17,819,894 12 180 Polish and other sanitation good manufacturing \$4,308,727 7 181 Surface active agent manufacturing \$6,998,310 8 182 Toilet preparation manufacturing \$6,998,310 8 183 Printing ink manufacturing \$6,698,40 0 184 Explosives manufacturing \$6,6984 0 185 Custom compounding of purchased resins \$2,743,346 4 186 Photographic film and chemical manufacturing \$4,329,745 6 187 Other miscellaneous chemical product manufac \$7,260,322 10 188 Plastics packaging materials and unlaminated \$7,526,032 10 189 Unlaminated plastics profile shape manufactu \$3,624,008 10 190 Plastics pipe and pipe fitting manufacturing \$2,542,652 5 191 Laminated plastics plate, sheet (except pack \$3,097,372 8 192	177			17
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219 Rolled steel shape manufacturing \$7,163,311 8	217		\$20,534,438	19
	218		\$3,423,610	6
220 Steel wire drawing \$228,191 1	219	Rolled steel shape manufacturing	\$7,163,311	8
	220	Steel wire drawing	\$228,191	1

Sector	Description	Total (\$)	Employment
221	Alumina refining and primary aluminum produc	\$241,522	0
222	Secondary smelting and alloying of aluminum	\$184,124	0
223	Aluminum sheet, plate, and foil manufacturin	\$587,076	1
224	Other aluminum rolling, drawing and extrudin	\$1,049,215	2
225	Nonferrous metal (exc aluminum) smelting and	\$122,207	0
226	Copper rolling, drawing, extruding and alloy	\$501,529	0
227	Nonferrous metal, except copper and aluminum	\$499,286	1
228	Secondary processing of other nonferrous met	\$345,446	0
229	Ferrous metal foundries	\$1,386,491	4
230	Nonferrous metal foundries	\$524,284	2
231	Iron and steel forging	\$705,901	2
232	Nonferrous forging	\$337,714	1
233	Custom roll forming	\$2,343,518	4
234	Crown and closure manufacturing and metal st	\$1,795,067	8
235	Cutlery, utensil, pot, and pan manufacturing	\$234,924	0
236	Handtool manufacturing	\$458,050	2
237	Prefabricated metal buildings and components	\$212,993	1
238	Fabricated structural metal manufacturing	\$2,440,757	7
239	Plate work manufacturing	\$532,726	2
240	Metal window and door manufacturing	\$2,004,920	8
241	Sheet metal work manufacturing	\$2,004,920	9
242	Ornamental and architectural metal work manu		1,760
242		\$372,961,220	
	Power boiler and heat exchanger manufacturin	\$101,102	0 1
244	Metal tank (heavy gauge) manufacturing	\$176,872	•
245	Metal cans manufacturing	\$2,625,425	3
246	Metal barrels, drums and pails manufacturing	\$325,833	1
247	Hardware manufacturing	\$1,129,675	3
248	Spring and wire product manufacturing	\$1,188,834	5
249	Machine shops	\$10,527,260	68
250	Turned product and screw, nut, and bolt manu	\$3,785,334	15
251	Metal heat treating	\$1,999,839	6
252	Metal coating and nonprecious engraving	\$3,502,924	13
253	Electroplating, anodizing, and coloring meta	\$2,170,526	15
254	Valve and fittings, other than plumbing, man	\$2,754,152	8
255	Plumbing fixture fitting and trim manufactur	\$1,641,097	3
256	Ball and roller bearing manufacturing	\$819,631	2
257	Small arms ammunition manufacturing	\$1,073,120	3
258	Ammunition, except for small arms, manufactu	\$4,942	0
259	Small arms, ordnance, and accessories manufa	\$44,297	0
260	Fabricated pipe and pipe fitting manufacturi	\$1,025,355	4
261	Other fabricated metal manufacturing	\$3,103,177	14
262	Farm machinery and equipment manufacturing	\$264,915	0
263	Lawn and garden equipment manufacturing	\$548,071	1
264	Construction machinery manufacturing	\$241,684	0
265	Mining machinery and equipment manufacturing	\$27,443	0
266	Oil and gas field machinery and equipment ma	\$26,734	0
267	Food product machinery manufacturing	\$85,802	0
268	Semiconductor machinery manufacturing	\$37,894	0
269	Sawmill, woodworking, and paper machinery	\$28,987	0
270	Printing machinery and equipment manufacturi	\$878,211	4
271	All other industrial machinery manufacturing	\$203,511	1
272	Optical instrument and lens manufacturing	\$1,759	0
273	Photographic and photocopying equipment manu	\$57,845	0
274	Other commercial service industry machinery	\$1,096,401	3
275	Air purification and ventilation equipment m	\$343,677	1
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Sector Description Total (\$) Employment 276 Hateling equipment (except warm air furnaces)				
277		Description		Employment
278 Industrial mold manufacturing \$235,261 1 279 Special tool, die, jig, and fisture manufact \$140,586 1 280 Cutting tool and machine tool accessory manu \$397,162 2 281 Machine tool manufacturing \$205,936 1 282 Rolling mill and other metalworking machiner \$48,513 0 284 Speed changer, industrial high-speed drive, \$53,710 0 285 Mcchanical power transmission equipment manu \$45,543 0 286 Obre rengine equipment manufacturing \$200,227 0 287 Pump and pumping equipment manufacturing \$258,939 1 288 Air and gas compressor manufacturing \$137,649 0 289 Measuring and dispensing pump manufacturing \$4,650 0 290 Elevator and moving stainway manufacturing \$8,930 0 291 Conveyor and conveying equipment manufacturing \$8,930 0 292 Derneyor and conveying equipment manufacturing \$17,282 0 293				2
279 Special tool, die, jig, and fixture manufact \$140,586 1 280 Cutting tool and machine tool accessory manu \$397,162 2 281 Machine tool manufacturing \$205,936 1 282 Rolling mill and other metalworking machiner \$48,513 0 283 Turbine and turbine generator set units manu \$13,475 0 284 Speed changer, industrial high-speed drive, \$53,710 0 285 Mechanical power transmission equipment manu \$45,543 0 286 Other engine equipment manufacturing \$200,227 0 287 Pump and pumping equipment manufacturing \$258,339 1 288 Air and gas compressor manufacturing \$137,649 0 289 Measuring and dispensing pump manufacturing \$4,650 0 290 Cievator and moving stairway manufacturing \$4650 0 291 Coverbead cranses, hoists, and monoral system \$162,923 1 292 Lind to the second provide and sold sold second provide and sold sold provide and sold sold second provide and sold sol				5
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281 Machine tool manufacturing \$205,936 1 282 Rolling mill and other metaworking machiner \$48,513 0 283 Turbine and turbine generator set units manu \$13,475 0 284 Speed changer, industrial high-speed drive, \$53,710 0 285 Mechanical power transmission equipment manu \$45,543 0 286 Other engine equipment manufacturing \$200,227 0 287 Pump and pumping equipment manufacturing \$258,339 1 288 Air and gas compressor manufacturing \$137,649 0 289 Measuring and dispensing pump manufacturing \$4,650 0 290 Elevator and moving stairway manufacturing \$4650 0 291 Conveyor and conveying equipment manufacturing \$162,923 1 292 Coverhead cranses, hoists, and monorall system \$17,282 0 293 Industrial truck, trailer, and stacker manufa \$761,922 2 294 Power-driven handtool manufacturing \$47,992 0 295<	279		\$140,586	1
282 Rolling mill and other metalworking machiner \$48,513 0 283 Turbine and turbine generator set units manu \$13,475 0 284 Speed changer, industrial high-speed drive, \$53,710 0 285 Mechanical power transmission equipment manu \$45,543 0 286 Other engine equipment manufacturing \$200,227 0 287 Pump and pumping equipment manufacturing \$258,339 1 288 Air and gas compressor manufacturing \$137,649 0 290 Elevator and moving stairway manufacturing \$8,930 0 291 Conveyor and conveying equipment manufacturin \$162,293 1 292 Overhead cranes, hoists, and monorail system \$17,282 0 293 Industrial truck, trailer, and stacker manuf \$761,922 2 294 Power-driven handtool manufacturing \$47,992 0 295 Welding and soldering equipment manufacturin \$256,427 1 296 Packaging machinery manufacturing \$37,987 0	280	Cutting tool and machine tool accessory manu	\$397,162	2
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· ·	328	Household cooking appliance manufacturing	\$130,111	0
330 Household laundry equipment manufacturing \$5,753,913 9	329		\$3,186,948	6
	330	Household laundry equipment manufacturing	\$5,753,913	9

Castan	Description	T-4-1 (#)	Formlerment
Sector 331	Other major household appliance manufacturin	Total (\$) \$879,493	Employment 2
	Other major household appliance manufacturin		
332	Power, distribution, and specialty transform	\$732,368	2
333	Motor and generator manufacturing	\$662,337	2
334	Switchgear and switchboard apparatus manufac	\$650,922	2
335	Relay and industrial control manufacturing	\$864,237	2
336	Storage battery manufacturing	\$1,867,118	5
337	Primary battery manufacturing	\$267,730	1
338	Fiber optic cable manufacturing	\$850,369	2
339	Other communication and energy wire manufact	\$322,043	1
340	Wiring device manufacturing	\$1,577,671	5
341	Carbon and graphite product manufacturing	\$575,576	1
342	All other miscellaneous electrical equipment	\$95,621	0
343	Automobile manufacturing	\$22,754,612	15
344	Light truck and utility vehicle manufacturin	\$20,618,945	10
345	Heavy duty truck manufacturing	\$124,528	0
346	Motor vehicle body manufacturing	\$157,752	1
347	Truck trailer manufacturing	\$16,615	0
348	Motor home manufacturing	\$920,165	2
349	Travel trailer and camper manufacturing	\$1,785,078	6
350	Motor vehicle gasoline engine and engine par	\$2,145,355	3
351	Motor vehicle electrical and electronic equi	\$4,539,160	<u>3</u> 11
352	'	\$3,088,339	6
	Motor vehicle steering, suspension component		
353	Motor vehicle transmission and power train p	\$2,293,063	4
354	Motor vehicle seating and interior trim manu	\$609,774	1
355	Motor vehicle metal stamping	\$748,482	2
356	Other motor vehicle parts manufacturing	\$8,466,398	17
357	Aircraft manufacturing	\$5,395	0
358	Aircraft engine and engine parts manufacturi	\$256,950	0
359	Other aircraft parts and auxiliary equipment	\$275,277	1
360	Guided missile and space vehicle manufacturi	\$0	0
361	Propulsion units and parts for space vehicle	\$425	0
362	Railroad rolling stock manufacturing	\$57,001	0
363	Ship building and repairing	\$5,758	0
364	Boat building	\$296,625	1
365	Motorcycle, bicycle, and parts manufacturing	\$164,366	0
366	Military armored vehicle, tank, and tank com	\$8,457	0
367	All other transportation equipment manufactu	\$218,496	0
368	Wood kitchen cabinet and countertop manufact	\$1,914,114	14
369	Upholstered household furniture manufacturin	\$279,476	1
370	Nonupholstered wood household furniture manu	\$1,116,119	9
371	Other household nonupholstered furniture man	\$498,930	2
372	Institutional furniture manufacturing	\$81,324	0
373	Wood office furniture manufacturing	\$8,620	0
373	Custom architectural woodwork and millwork	\$167,350,913	1,061
375	Office furniture, except wood, manufacturing	\$8,750	0
376	Showcase, partition, shelving, and locker ma	\$3,471,856	17
377	Mattress manufacturing	\$866,455	2
378	Blind and shade manufacturing	\$57,764	0
379	Surgical and medical instrument manufacturin	\$606,541	11
380	Surgical appliance and supplies manufacturin	\$1,684,220	5
381	Dental equipment and supplies manufacturing	\$206,298	1
382	Ophthalmic goods manufacturing	\$303,829	1
383	Dental laboratories	\$252,208	3
384	Jewelry and silverware manufacturing	\$211,695	1
385	Sporting and athletic goods manufacturing	\$938,038	4

Sector	Description	Total (\$)	Employment
386	Doll, toy, and game manufacturing	\$992,797	4
387	Office supplies (except paper) manufacturing	\$456,978	2
388	Sign manufacturing	\$593,806,599	5,329
389	Gasket, packing, and sealing device manufact	\$975,867	4
390	Musical instrument manufacturing	\$88,589,369	701
391	Fasteners, buttons, needles, and pins manufa	\$76,193	0
392	Broom, brush, and mop manufacturing	\$1,494,776	6
393	Burial casket manufacturing	\$186,574	1
394	All other miscellaneous manufacturing	\$5,085,372	31
395	Wholesale trade	\$746,166,773	3,141
396	Retail - Motor vehicle and parts dealers	\$125,231,684	1,112
397	Retail - Furniture and home furnishings stor	\$32,604,522	319
398	Retail - Electronics and appliance stores	\$20,684,988	333
399	Retail - Building material and garden equipm	\$93,502,704	965
400	Retail - Food and beverage stores	\$136,742,054	2,128
401	Retail - Health and personal care stores	\$71,781,732	831
402	Retail - Gasoline stores	\$43,056,649	716
403	Retail - Clothing and clothing accessories s	\$76,321,208	917
404	Retail - Sporting goods, hobby, musical inst	\$28,758,100	539
405	Retail - General merchandise stores	\$167,909,121	2,405
406	Retail - Miscellaneous store retailers	\$42,591,882	1,123
407	Retail - Nonstore retailers	\$170,909,342	1,388
407	Air transportation	\$117,400,563	288
408		\$20,228,933	51
	Rail transportation		6
410	Water transportation	\$4,766,073	
411	Truck transportation	\$213,665,856	1,255
412	Transit and ground passenger transportation	\$59,859,115	941
413	Pipeline transportation	\$6,096,886	13
414	Scenic and sightseeing transportation and su	\$156,532,979	939
415	Couriers and messengers	\$160,381,652	1,627
416	Warehousing and storage	\$115,009,833	1,140
417	Newspaper publishers	\$1,336,020,483	9,666
418	Periodical publishers	\$105,380,679	337
419	Book publishers	\$1,938,879,409	3,008
420	Directory, mailing list, and other publisher	\$72,687,249	187
421	Greeting card publishing	\$1,734,817	6
422	Software publishers	\$39,791,743	132
423	Motion picture and video industries	\$1,265,361,599	7,471
424	Sound recording industries	\$157,702,955	666
425	Radio and television broadcasting	\$2,022,635,013	9,307
426	Cable and other subscription programming	\$204,420,617	227
427	Wired telecommunications carriers	\$339,997,137	748
428	Wireless telecommunications carriers (except	\$165,995,842	86
429	Satellite, telecommunications resellers, and	\$13,001,391	109
430	Data processing, hosting, and related servic	\$108,822,740	399
431	News syndicates, libraries, archives and all	\$40,330,818	47
432	Internet publishing and broadcasting and web	\$2,965,155,156	5,940
433	Monetary authorities and depository credit i	\$536,994,802	1,208
434	Nondepository credit intermediation and rela	\$161,520,577	966
435	Securities and commodity contracts intermedi	\$64,629,222	494
436	Other financial investment activities	\$195,915,015	1,316
437	Insurance carriers	\$579,059,077	1,233
438	Insurance agencies, brokerages, and related	\$287,283,467	1,579
439	Funds, trusts, and other financial vehicles	\$108,978,918	404
440	Real estate	\$1,502,571,685	6,724
	1	\$1,00 <u>0</u> ,011,000	J, . ← !

Sector	Description	Total (\$)	Employment
441	Owner-occupied dwellings	\$1,181,068,544	0
442	Automotive equipment rental and leasing	\$79,227,095	290
443	General and consumer goods rental except vid	\$23,668,241	268
444	Video tape and disc rental	\$266,560,777	1,140
445	Commercial and industrial machinery and equi	\$191,437,932	701
446	Lessors of nonfinancial intangible assets	\$132,655,948	98
447	Legal services	\$248,086,158	1,581
448	Accounting, tax preparation, bookkeeping, an	\$219,813,410	2,191
449	Architectural, engineering, and related serv	\$1,311,270,101	8,257
450	Specialized design services	\$1,678,866,309	15,249
451	Custom computer programming services	\$24,603,705	132
452	Computer systems design services	\$101,566,227	793
453	Other computer related services, including f	\$115,749,184	707
454	Management consulting services	\$312,125,363	2,666
455	Environmental and other technical consulting	\$47,496,233	579
456	Scientific research and development services	\$9,586,186	39
457	Advertising, public relations, and related s	\$4,957,009,575	24,223
458	Photographic services	\$537,219,866	9,113
459	Veterinary services	\$27,358,455	269
460	Marketing research and all other miscellaneo	\$131,582,171	1,810
461			
	Management of companies and enterprises Office administrative services	\$490,149,075	2,056
462		\$158,626,485	1,807
463	Facilities support services	\$23,638,474	143
464	Employment services	\$557,093,790	8,120
465	Business support services	\$91,506,490	1,461
466	Travel arrangement and reservation services	\$30,601,743	172
467	Investigation and security services	\$49,991,696	1,029
468	Services to buildings	\$116,407,306	2,700
469	Landscape and horticultural services	\$71,675,062	1,172
470	Other support services	\$51,045,896	571
471	Waste management and remediation services	\$64,656,180	299
472	Elementary and secondary schools	\$43,795,767	886
473	Junior colleges, colleges, universities, and	\$88,296,847	822
474	Other educational services	\$65,097,903	1,904
475	Offices of physicians	\$310,285,993	2,069
476	Offices of dentists	\$100,120,423	763
477	Offices of other health practitioners	\$84,384,592	992
478	Outpatient care centers	\$107,882,240	646
479	Medical and diagnostic laboratories	\$21,031,171	191
480	Home health care services	\$64,117,691	1,527
481	Other ambulatory health care services	\$26,277,978	288
482	Hospitals	\$610,096,988	4,179
483	Nursing and community care facilities	\$102,787,728	1,632
484	Residential mental retardation, mental healt	\$25,043,912	606
485	Individual and family services	\$51,505,745	1,375
486	Community food, housing, and other relief se	\$29,892,366	367
487	Child day care services	\$46,580,239	1,201
488	Performing arts companies	\$787,359,858	6,659
489	Commercial Sports Except Racing	\$315,990,867	2,425
490	Racing and Track Operation	\$1,224,869	40
491	Promoters of performing arts and sports and	\$1,432,695,043	10,851
492	Independent artists, writers, and performers	\$1,274,620,387	37,656
492	Museums, historical sites, zoos, and parks		
		\$541,934,059 \$5,747,011	7,213
494	Amusement parks and arcades	\$5,747,011	91
495	Gambling industries (except casino hotels)	\$56,367,102	328

Sector	Description	Total (\$)	Employment
496	Other amusement and recreation industries	\$32,478,139	626
497	Fitness and recreational sports centers	\$22,127,618	575
498	Bowling centers	\$3,613,737	84
499	Hotels and motels, including casino hotels	\$10,076,434	103
500	Other accommodations	\$208,206	4
501	Full-service restaurants	\$252,486,070	5,605
502	Limited-service restaurants	\$369,023,368	4,939
503	All other food and drinking places	\$81,650,717	2,215
504	Automotive repair and maintenance, except ca	\$140,859,195	1,499
505	Car washes	\$11,371,428	198
506	Electronic and precision equipment repair an	\$30,323,621	214
507	Commercial and industrial machinery and equi	\$63,455,873	441
508	Personal and household goods repair and main	\$42,655,112	505
509	Personal care services	\$48,049,904	1,448
510	Death care services	\$10,380,646	105
511	Dry-cleaning and laundry services	\$16,816,339	250
512	Other personal services	\$64,496,141	1,910
513	Religious organizations	\$208,951,795	1,418
514	Grantmaking, giving, and social advocacy org	\$38,704,073	239
515	Business and professional associations	\$51,065,219	253
516	Labor and civic organizations	\$49,288,983	677
517	Private households	\$7,209,069	583
518	Postal service	\$109,197,303	1,005
519	Federal electric utilities	\$0	0
520	Other federal government enterprises	\$425,420	8
521	State government passenger transit	\$0	0
522	State government electric utilities	\$0	0
523	Other state government enterprises	\$0	0
524	Local government passenger transit	\$18,107,187	411
525	Local government electric utilities	\$10,079,823	18
526	Other local government enterprises	\$115,668,098	395
527	* Not an industry (Used and secondhand goods	\$0	0
528	* Not an industry (Scrap)	\$0	0
529	* Not an industry (Rest of world adjustment)	\$0	0
530	* Not an industry (Noncomparable foreign imp	\$0	0
531	* Employment and payroll of state govt, non	\$0	0
532	* Employment and payroll of state govt, educ	\$0	0
533	* Employment and payroll of local govt, non	\$0	0
534	* Employment and payroll of local govt, educ	\$0	0
535	* Employment and payroll of federal govt, no	\$0	0
536	* Employment and payroll of federal govt, mi	\$0	0
	Total	-	289,321