



THE OHIO STATE UNIVERSITY

**Economic Impact Analysis
Of
The Crop, Livestock, Viticulture, and
Horticulture Industries in Lake County, Ohio
for the
Lake County Soil and Water Conservation
District
August 2013**

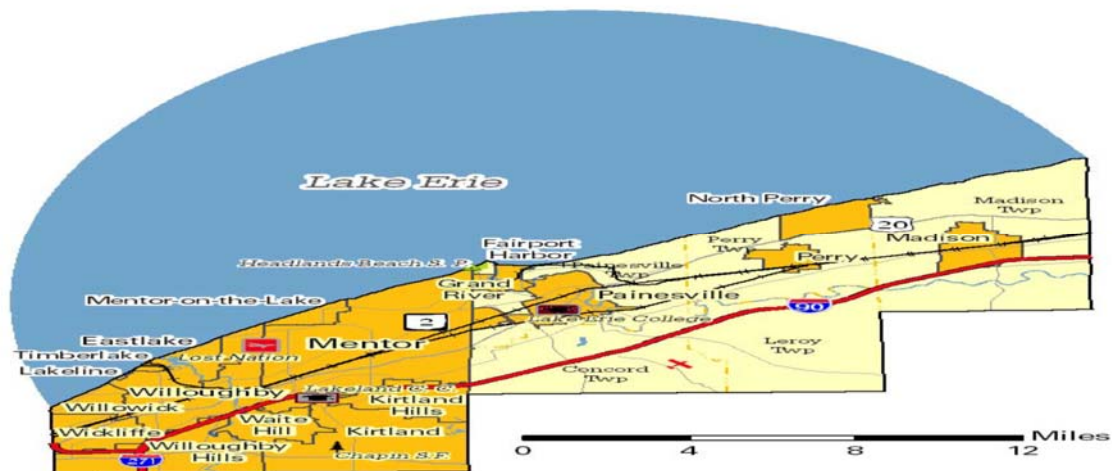
An Executive Summary



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Executive Summary

Lake County, situated in the northeast portion of the State of Ohio, and bounded by Lake Erie to the north had a population of 230,000 according to the 2010 census data. The County contains traditional rural and suburban areas with future residential development viewed as potential constraint to future agricultural use. In fact, there are over 15,000 acres of farmland with 240 farms with the average farm size being 63 acres. The census data also indicate that the total cash receipt was \$49,750,000 with each farm receiving \$207,293.



Over the past six years, Ohio State University Extension and The Lake County Soil and Water Conservation District (Lake SWCD) have partnered to learn more about the economic impact of agriculture in Lake County. Lake SWCD and the Ohio Wine Producers Association worked with Ohio State University Extension to conduct a survey gathering data from the grape and wine industry in 2008. The following year, a survey was conducted to ascertain data from the Nursery Sector. Lastly, in 2011, a survey was developed to learn about the economic impact of the Crop and Animal/Livestock Industry.

Reports for the three surveys are available at the Lake County Soil and Water Conservation District Headquarters.

While it is necessary to gather data from locally developed surveys, it is also as important to use an economic input-output (I-O) model to measure overall economic impact.

IMPLAN Impact Model

This Executive Summary estimates the impact of the Lake County Crop, Animal/Livestock, Viticulture, and Horticulture Sectors in Lake County, Ohio using IMPLAN, an economic input-output (I-O) modeling software designed to describe relationships among the various sectors in an economy and estimate impact of changes in those sectors. The model captures indirect and induced impacts that occur from direct investment using 2011 IMPLAN data (the most recent available). The analysis is based on the premise that sectors are linked; a change in one sector will create change in others. This summary analyzes the crop, animal/livestock, viticulture, and horticulture activities listed below that account for total economic impact in Lake County, Ohio.

Summary Analysis of IMPLAN Data indicates the following:

1. An estimated 1,431 annual fulltime equivalent jobs and an estimated annual payroll of \$98,566,163 are supported by crop, animal/livestock, viticulture, and horticulture activities in Lake County.
2. The estimated total Value Added to the Lake County economy from these industries is \$95,268,994.
3. The estimated total Output to the Lake County economy from these industries is \$151,401,145.

Table 1. Estimated Economic Contribution of the Crop and Animal Livestock, Viticulture, and Horticulture Industries in Lake County

Activity	Total Output	Employment	Labor Income	Total Value Added
Crop Industry	3,318,767	31	1,449,401	1,743,463
Animal Livestock	3,990,781	36	714,862	1,415,174
Viticulture	7,956,401	214	3,039,901	3,399,509
Horticulture	136,135,196	1,150	93,361,999	88,710,848
Total	151,401,145	1,431	98,566,163	95,268,994

Using input/output modeling, we can estimate the extent to which the Lake County crop, livestock, viticulture, and horticulture industries contribute to other employment (measured in FTEs), output, income (measured in dollars) and total value added.

Impact terms for purposes of this study are defined below:

- The direct effect is felt when dollars are spent for the operation of Crop, Livestock, Viticulture, and Horticulture industries in Lake County, Ohio.
- The indirect effect occurs as Ohio businesses provide goods and services used by the above industries in Lake County, and when these businesses, in turn, make additional purchases from Ohio businesses.
- The induced effect occurs as workers in the directly and indirectly affected industries receive income that they then use to purchase consumer goods and services from other businesses in Ohio.
- The total effect to operate the above industries in Lake County is the sum of the direct, indirect, and induced effects.

Tables 2-5 below illustrate the Crop Industry’s economic activity (Output, Employment, Labor Income, and Total Value Added) and the top 10 sectors most impacted.

Table 2. Crop Industry Total Output

Sector	Description	Total
3	Vegetable and melon farming	983,991.63
10	All other crop farming	529,225.08
1	Oilseed farming	214,653.28
360	Real estate establishments	183,575.28
2	Grain farming	157,278.39
361	Imputed rental activity for owner-occupied dwellings	123,269.00
354	Monetary authorities and depository credit intermediation activities	102,139.17
130	Fertilizer manufacturing	74,822.85
31	Electric power generation, transmission, and distribution	59,762.15
138	Soap and cleaning compound manufacturing	59,269.79
	Total	3,318,767.21

Table 3. Crop Industry Total Employment

Sector	Description	Total
3	Vegetable and melon farming	6
2	Grain farming	5
1	Oilseed farming	4
19	Support activities for agriculture and forestry	3.
10	All other crop farming	2
360	Real estate establishments	2
413	Food services and drinking places	1
394	Offices of physicians, dentists, and other health practitioners	0.4
324	Retail Stores - Food and beverage	0.4
398	Nursing and residential care facilities	0.3
	Total	31

Table 4. Crop Industry Labor Income

Sector	Description	Total
3	Vegetable and melon farming	755,579.34
10	All other crop farming	225,325.86
1	Oilseed farming	51,923.22
394	Offices of physicians, dentists, and other health practitioners	31,074.37
2	Grain farming	30,940.86
319	Wholesale trade businesses	22,367.25
397	Private hospitals	17,610.02
413	Food services and drinking places	17,262.44
360	Real estate establishments	15,209.88
130	Fertilizer manufacturing	14,941.26
	Total	1,449,400.61

Table 5. Crop Industry Total Value Added

Sector	Description	Total
3	Vegetable and melon farming	584,912.86
10	All other crop farming	190,411.43
360	Real estate establishments	156,510.78
361	Imputed rental activity for owner-occupied dwellings	113,122.93
1	Oilseed farming	104,138.22
31	Electric power generation, transmission, and distribution	54,327.10
354	Monetary authorities and depository credit intermediation activities	43,501.39
319	Wholesale trade businesses	39,003.00
2	Grain farming	38,753.59
394	Offices of physicians, dentists, and other health practitioners	32,140.44
	Total	1,743,462.64

Tables 6-9 below illustrate the Animal/Livestock Industry's economic activity (Output, Employment, Labor Income, and Total Value Added) and the top 10 most impacted sectors.

Table 6. Livestock Industry Total Output

Sector	Description	Total
13	Poultry and egg production	1,684,114.37
12	Dairy cattle and milk production	773,035.62
14	Animal production, except cattle and poultry and eggs	400,385.15
11	Cattle ranching and farming	350,174.17
360	Real estate establishments	87,368.24
354	Monetary authorities and depository credit intermediation activities	58,085.50
361	Imputed rental activity for owner-occupied dwellings	58,045.73
319	Wholesale trade businesses	56,900.02
31	Electric power generation, transmission, and distribution	56,199.96
413	Food services and drinking places	29,466.67
	Total	3,990,781.11

Table 7. Livestock Industry Total Employment

Sector	Description	Total
14	Animal production, except cattle and poultry and eggs	17
12	Dairy cattle and milk production	6
13	Poultry and egg production	3
11	Cattle ranching and farming	3
19	Support activities for agriculture and forestry	1
360	Real estate establishments	0.76
413	Food services and drinking places	0.58
319	Wholesale trade businesses	0.37
394	Offices of physicians, dentists, and other health practitioners	0.20
39	Maintenance and repair construction of nonresidential structures	0.19
	Total	36

Table 8. Livestock Industry Labor Income

Sector	Description	Total
13	Poultry and egg production	283,047.77
14	Animal production, except cattle and poultry and eggs	98,915.13
12	Dairy cattle and milk production	62,161.29
11	Cattle ranching and farming	37,401.89
319	Wholesale trade businesses	28,462.17
394	Offices of physicians, dentists, and other health practitioners	15,405.88
31	Electric power generation, transmission, and distribution	13,549.10
335	Transport by truck	9,967.41
413	Food services and drinking places	9,064.99
397	Private hospitals	8,789.53
	Total	714,861.70

Table 9. Livestock Industry Total Value Added

Sector	Description	Total
13	Poultry and egg production	343,886.05
12	Dairy cattle and milk production	310,443.26
14	Animal production, except cattle and poultry and eggs	215,650.65
360	Real estate establishments	74,487.55
11	Cattle ranching and farming	63,880.23
361	Imputed rental activity for owner-occupied dwellings	53,268.08
31	Electric power generation, transmission, and distribution	51,088.86
319	Wholesale trade businesses	49,631.05
354	Monetary authorities and depository credit intermediation activities	24,738.79
394	Offices of physicians, dentists, and other health practitioners	15,934.41
	Total	1,415,174.33

Tables 10-13 below illustrate the Viticulture Industry's economic activity (Output, Employment, Labor Income, and Total Value Added) and the top 10 most impacted sectors.

Table 10. Viticulture Total Output

Sector	Description	Total
4	Fruit farming	2,243,810.25
19	Support activities for agriculture and forestry	1,496,724.85
72	Wineries	934,599.06
130	Fertilizer manufacturing	462,606.71
361	Imputed rental activity for owner-occupied dwellings	256,684.49
138	Soap and cleaning compound manufacturing	167,629.26
360	Real estate establishments	163,873.71
354	Monetary authorities and depository credit intermediation activities	162,634.77
319	Wholesale trade businesses	148,919.36
126	Other basic organic chemical manufacturing	127,899.20
	Total	7,956,401.08

Table 11. Viticulture Employment

Sector	Description	Total
19	Support activities for agriculture and forestry	176
4	Fruit farming	12
72	Wineries	3
413	Food services and drinking places	2
360	Real estate establishments	1
319	Wholesale trade businesses	0.98
394	Offices of physicians, dentists, and other health practitioners	0.85
324	Retail Stores - Food and beverage	0.78
398	Nursing and residential care facilities	0.72
329	Retail Stores - General merchandise	0.71
	Total	214

Table 12. Viticulture Labor Income

Sector	Description	Total
4	Fruit farming	1,798,952.28
19	Support activities for agriculture and forestry	239,355.91
130	Fertilizer manufacturing	92,377.23
319	Wholesale trade businesses	74,491.50
394	Offices of physicians, dentists, and other health practitioners	65,227.07
369	Architectural, engineering, and related services	42,726.91
72	Wineries	38,237.34
397	Private hospitals	37,004.15
413	Food services and drinking places	36,838.88
31	Electric power generation, transmission, and distribution	27,979.94
	Total	3,039,901.21

Table 13. Viticulture Total Value Added

Sector	Description	Total
4	Fruit farming	1,380,321.27
361	Imputed rental activity for owner-occupied dwellings	235,557.20
19	Support activities for agriculture and forestry	147,607.89
360	Real estate establishments	139,713.82
319	Wholesale trade businesses	129,894.93
130	Fertilizer manufacturing	126,284.17
31	Electric power generation, transmission, and distribution	105,502.42
72	Wineries	104,187.84
354	Monetary authorities and depository credit intermediation activities	69,266.66
394	Offices of physicians, dentists, and other health practitioners	67,464.82
	Total	3,399,508.84

Tables 14-17 below illustrate the Horticulture Industry's activity (Output, Employment, Labor Income, Total Value Added) and the top 10 most impacted sectors impacted.

Table 14. Horticulture Total Output

Sector	Description	Total
6	Greenhouse, nursery, and floriculture production	66,128,166.98
54	Fruit and vegetable canning, pickling, and drying	10,419,077.56
361	Imputed rental activity for owner-occupied dwellings	7,911,816.84
360	Real estate establishments	4,175,211.36
413	Food services and drinking places	3,487,109.26
394	Offices of physicians, dentists, and other health practitioners	3,363,811.00
354	Monetary authorities and depository credit intermediation activities	2,991,842.89
397	Private hospitals	2,432,599.85
319	Wholesale trade businesses	2,139,132.07
31	Electric power generation, transmission, and distribution	1,732,727.45
	Total	136,135,195.45

Table 15 Horticulture Total Employment

Sector	Description	Total
6	Greenhouse, nursery, and floriculture production	539
413	Food services and drinking places	69
19	Support activities for agriculture and forestry	49
360	Real estate establishments	36
394	Offices of physicians, dentists, and other health practitioners	26
324	Retail Stores - Food and beverage	24
398	Nursing and residential care facilities	22
329	Retail Stores - General merchandise	22
397	Private hospitals	19
54	Fruit and vegetable canning, pickling, and drying	18
	Total	1,150

Table 16. Horticulture Labor Income

Sector	Description	Total
6	Greenhouse, nursery, and floriculture production	73,524,416.45
394	Offices of physicians, dentists, and other health practitioners	2,002,447.29
54	Fruit and vegetable canning, pickling, and drying	1,425,453.52
397	Private hospitals	1,135,405.54
413	Food services and drinking places	1,072,758.51
319	Wholesale trade businesses	1,070,023.16
398	Nursing and residential care facilities	700,263.64
320	Retail Stores - Motor vehicle and parts	638,193.20
324	Retail Stores - Food and beverage	603,809.60
355	Nondepository credit intermediation and related activities	531,319.29
	Total	93,361,999.09

Table 17. Horticulture Total Value Added

Sector	Description	Total
6	Greenhouse, nursery, and floriculture production	49,398,316.27
361	Imputed rental activity for owner-occupied dwellings	7,260,607.80
360	Real estate establishments	3,559,660.08
54	Fruit and vegetable canning, pickling, and drying	3,051,863.72
394	Offices of physicians, dentists, and other health practitioners	2,071,145.39
319	Wholesale trade businesses	1,865,858.21
413	Food services and drinking places	1,729,448.35
31	Electric power generation, transmission, and distribution	1,575,144.94
354	Monetary authorities and depository credit intermediation activities	1,274,235.24
397	Private hospitals	1,242,711.12
	Total	88,710,848.37

Conclusion

The Agricultural enterprises in Lake County, specifically the economic activities associated with horticulture, contribute jobs, income, and economic output to the Lake County and Ohio economies. The greatest contributions come from the various sectors that comprise the agricultural economy, in addition to support enterprises such as real estate, food services and wholesale businesses.

Appendix

Glossary of terms below adapted from the IMPLAN Glossary at http://implan.com/v3/index.php?option=com_glossary&Itemid=164

Full Time Equivalent Employment (FTE)

Full-time equivalent employment is the number of full-time equivalent jobs, as determined by total hours worked divided by average annual hours worked in fulltime jobs.

Labor Income

Labor Income IMPLAN is the total payroll cost of the employee paid by the employer in addition to proprietor (owner) income. This includes, wage and salary, all benefits (e.g., health, retirement, etc) and employer- paid payroll taxes (e.g., employer side of social security, unemployment taxes, etc).

Output

Output represents the value of industry production. In IMPLAN these are annual production estimates for the year of the data set and are in producer prices.

Manufacturing	output = sales +/- change in inventory
Service Sector	output = sales
Retail and wholesale trade	output = gross margin (not gross sales)

Total Value-added

Total value added is the contribution of each private industry and of government to the nation's output, or GDP. It represents total output of an industry or establishment (which consists of sales or receipts and other operating income, commodity taxes, and inventory change) less the cost of its intermediate inputs (which consist of energy, raw materials, semi-finished goods, and services that are purchased from domestic industries or from foreign sources).

Below is a list of all sectors impacted by the Crop, Livestock, Viticulture, and Horticulture Industry

Lake County Total Output (\$)				
	Direct	Indirect	Induced	Total
Total Across All Sectors	85,063,632	14,182,757	52,154,756	151,401,145
Greenhouse, nursery, and floriculture production	64,979,090	1,145,436	15,439	66,139,965
Fruit and vegetable canning, pickling, and drying	10,406,275	8,966	4,055	10,419,295
Imputed rental activity for owner-occupied dwellings	0	0	8,349,816	8,349,816
Real estate establishments	0	1,355,572	3,254,457	4,610,029
Food services and drinking places	0	155,981	3,536,456	3,692,438
Offices of physicians, dentists, and other health practitioners	0	3	3,551,459	3,551,463
Monetary authorities and depository credit intermediation activities	0	1,214,858	2,099,844	3,314,702
Private hospitals	0	3	2,568,439	2,568,442
Wholesale trade businesses	0	960,536	1,429,131	2,389,667
Fruit farming	2,225,157	70,525	13,209	2,308,891
Electric power generation, transmission, and distribution	0	898,685	1,066,062	1,964,747
Support activities for agriculture and forestry	1,448,608	502,707	1,183	1,952,497
Poultry and egg production	1,683,482	670	133	1,684,285
Other state and local government enterprises	0	300,480	1,222,643	1,523,123
Securities, commodity contracts, investments, and related activities	0	141,279	1,285,135	1,426,414
Fertilizer manufacturing	0	1,409,758	11,903	1,421,661
Nursing and residential care facilities	0	0	1,363,162	1,363,162
Nondepository credit intermediation and related activities	0	160,455	1,163,672	1,324,127
Retail Stores - Motor vehicle and parts	0	24,411	1,240,847	1,265,258
Retail Stores - Food and beverage	0	14,260	1,217,493	1,231,754
Civic, social, professional, and similar organizations	0	118,876	996,414	1,115,290
Retail Stores - General merchandise	0	12,485	1,073,230	1,085,715
Vegetable and melon farming	982,595	26,432	6,438	1,015,465
Natural gas distribution	0	717,713	265,043	982,756
Medical and diagnostic labs and outpatient and other ambulatory care services	0	109	955,956	956,064
Wineries	931,126	3,386	3,138	937,650
Maintenance and repair construction of	0	543,381	305,985	849,366

nonresidential structures				
Soap and cleaning compound manufacturing	0	731,724	81,034	812,758
Dairy cattle and milk production	772,909	1,441	82	774,432
Other basic organic chemical manufacturing	0	668,412	79,836	748,248
Services to buildings and dwellings	0	251,623	468,041	719,664
Retail Stores - Health and personal care	0	6,997	586,312	593,309
Retail Stores - Clothing and clothing accessories	0	6,206	578,169	584,375
Telecommunications	0	88,966	481,882	570,849
Automotive repair and maintenance, except car washes	0	57,755	511,564	569,319
Legal services	0	101,723	435,230	536,953
All other crop farming	528,967	4,793	215	533,975
Retail Stores - Building material and garden supply	0	13,667	487,359	501,026
Soft drink and ice manufacturing	0	55,671	425,572	481,243
Retail Nonstores - Direct and electronic sales	0	4,456	474,159	478,614
Personal care services	0	0	453,960	453,960
Private elementary and secondary schools	0	0	453,061	453,061
Accounting, tax preparation, bookkeeping, and payroll services	0	215,684	222,646	438,330
Insurance carriers	0	11,897	420,221	432,118
Transport by truck	0	265,590	161,377	426,967
Retail Stores - Miscellaneous	0	4,514	402,448	406,962
Animal production, except cattle and poultry and eggs	398,797	6,497	1,610	406,904
Employment services	0	55,593	341,744	397,337
Architectural, engineering, and related services	0	191,117	185,923	377,040
Individual and family services	0	0	374,460	374,460
Grantmaking, giving, and social advocacy organizations	0	25	359,344	359,370
Cattle ranching and farming	335,517	20,639	191	356,347
Extraction of oil and natural gas	0	230,566	117,147	347,713
Retail Stores - Electronics and appliances	0	3,785	331,871	335,657
Retail Stores - Gasoline stations	0	4,880	325,343	330,223
Child day care services	0	0	328,870	328,870
Private junior colleges, colleges, universities, and professional schools	0	36,847	291,840	328,688
Retail Stores - Sporting goods, hobby, book and music	0	2,879	263,763	266,642
US Postal Service	0	39,356	211,035	250,391
Other private educational services	0	1,282	247,220	248,503
Periodical publishers	0	45,279	191,593	236,872

Home health care services	0	0	232,692	232,692
Retail Stores - Furniture and home furnishings	0	2,128	226,288	228,417
Management of companies and enterprises	0	136,186	90,465	226,651
Community food, housing, and other relief services, including rehabilitation services	0	0	217,167	217,167
Oilseed farming	214,501	1,612	25	216,139
Advertising and related services	0	40,962	168,057	209,020
Newspaper publishers	0	25,332	183,629	208,961
Religious organizations	0	0	181,261	181,261
Grain farming	156,607	6,123	248	162,978
Other personal services	0	1,272	160,403	161,674
Commercial and industrial machinery and equipment repair and maintenance	0	79,006	70,965	149,971
Veterinary services	0	6,830	137,968	144,798
Management, scientific, and technical consulting services	0	19,436	120,703	140,139
Dry-cleaning and laundry services	0	8,694	126,202	134,896
Amusement parks, arcades, and gambling industries	0	21	131,092	131,112
Other amusement and recreation industries	0	12,968	116,613	129,582
Fitness and recreational sports centers	0	3,573	124,376	127,948
Warehousing and storage	0	80,265	46,806	127,071
Commercial and industrial machinery and equipment rental and leasing	0	102,531	20,012	122,543
Insurance agencies, brokerages, and related activities	0	9,776	112,069	121,845
Office administrative services	0	15,756	101,378	117,134
Maintenance and repair construction of residential structures	0	3,176	109,487	112,663
Spectator sports companies	0	18,980	92,549	111,529
Printing	0	22,117	88,480	110,597
Investigation and security services	0	13,553	96,161	109,714
Waste management and remediation services	0	19,888	88,267	108,154
Private household operations	0	0	106,437	106,437
General and consumer goods rental except video tapes and discs	0	4,986	95,598	100,583
Personal and household goods repair and maintenance	0	10,712	83,796	94,508
Travel arrangement and reservation services	0	7,104	86,870	93,974
Transit and ground passenger transportation	0	4,413	86,839	91,252
Computer systems design services	0	38,557	51,326	89,883
Museums, historical sites, zoos, and parks	0	0	85,034	85,034

Paperboard container manufacturing	0	73,946	9,672	83,618
Coated and laminated paper, packaging paper and plastics film manufacturing	0	42,708	37,661	80,369
Death care services	0	0	77,058	77,058
Business support services	0	11,554	64,238	75,792
Data processing, hosting, ISP, web search portals and related services	0	5,914	69,765	75,679
Other support services	0	11,681	62,184	73,864
Motion picture and video industries	0	2,234	62,706	64,940
Mining and quarrying stone	0	42,692	12,745	55,438
Scenic and sightseeing transportation and support activities for transportation	0	15,607	38,952	54,560
Scientific research and development services	0	23,577	28,814	52,392
Couriers and messengers	0	8,943	43,213	52,156
State and local government electric utilities	0	22,818	29,184	52,002
Automotive equipment rental and leasing	0	9,515	36,164	45,679
Other information services	0	2,876	42,390	45,266
Other computer related services, including facilities management	0	20,356	22,165	42,521
Lessors of nonfinancial intangible assets	0	18,212	19,988	38,200
Water, sewage and other treatment and delivery systems	0	7,632	30,372	38,004
Radio and television broadcasting	0	6,445	30,691	37,136
Promoters of performing arts and sports and agents for public figures	0	1,262	35,534	36,797
Electronic and precision equipment repair and maintenance	0	8,177	27,663	35,840
State and local government passenger transit	0	1,551	30,525	32,076
Custom computer programming services	0	13,045	17,131	30,176
Mining and quarrying other nonmetallic minerals	0	26,988	2,743	29,731
Other plastics product manufacturing	0	22,918	6,181	29,098
Other Federal Government enterprises	0	2,670	24,305	26,976
Photographic services	0	1,352	24,155	25,508
Video tape and disc rental	0	0	24,348	24,348
Industrial gas manufacturing	0	6,469	15,875	22,344
Transport by rail	0	16,498	5,784	22,283
Sign manufacturing	0	4,162	16,984	21,146
Car washes	0	622	19,880	20,502
Plastics material and resin manufacturing	0	13,510	5,822	19,332
Asphalt shingle and coating materials manufacturing	0	7,345	11,855	19,201
Hotels and motels, including casino hotels	0	5,284	12,896	18,180
Environmental and other technical	0	2,389	14,731	17,120

consulting services				
Broom, brush, and mop manufacturing	0	4,456	12,064	16,520
Plastics packaging materials and unlaminated film and sheet manufacturing	0	11,622	4,292	15,914
Specialized design services	0	3,506	10,990	14,496
All other chemical product and preparation manufacturing	0	10,755	3,038	13,793
All other miscellaneous professional, scientific, and technical services	0	5,677	7,670	13,346
All other converted paper product manufacturing	0	4,266	8,314	12,580
All other miscellaneous manufacturing	0	971	11,538	12,509
Ready-mix concrete manufacturing	0	3,069	9,018	12,087
Bowling centers	0	14	11,129	11,143
Lime and gypsum product manufacturing	0	2,092	7,524	9,617
Transport by air	0	1,107	8,398	9,505
Performing arts companies	0	382	7,835	8,216
Directory, mailing list, and other publishers	0	1,538	6,457	7,994
Metal can, box, and other metal container (light gauge) manufacturing	0	7,756	89	7,846
Electric lamp bulb and part manufacturing	0	1,569	5,947	7,516
Internet publishing and broadcasting	0	906	5,928	6,834
Cut stone and stone product manufacturing	0	1,118	5,695	6,812
Facilities support services	0	1,082	4,987	6,069
Surgical appliance and supplies manufacturing	0	37	5,979	6,016
Adhesive manufacturing	0	2,872	2,417	5,289
Independent artists, writers, and performers	0	1,062	4,030	5,092
Support activities for oil and gas operations	0	3,350	1,712	5,062
Animal (except poultry) slaughtering, rendering, and processing	0	1,172	3,793	4,965
Motor vehicle parts manufacturing	0	2,229	2,726	4,955
Machine shops	0	3,416	1,290	4,706
Forestry, forest products, and timber tract production	0	3,115	769	3,885
Other fabricated metal manufacturing	0	2,418	1,368	3,786
Transport by pipeline	0	2,078	1,565	3,643
Nonupholstered wood household furniture manufacturing	0	1	3,513	3,515
Miscellaneous nonmetallic mineral product manufacturing	0	821	2,371	3,192
Plate work and fabricated structural product manufacturing	0	1,589	1,366	2,955
Steel product manufacturing from purchased	0	1,060	1,531	2,591

steel				
Musical instrument manufacturing	0	34	2,501	2,535
Clay and nonclay refractory manufacturing	0	2,053	473	2,526
Doll, toy, and game manufacturing	0	1	2,275	2,276
Polystyrene foam product manufacturing	0	739	1,471	2,210
Paint and coating manufacturing	0	539	1,651	2,190
Nonchocolate confectionery manufacturing	0	724	1,439	2,163
Electromedical and electrotherapeutic apparatus manufacturing	0	0	2,121	2,121
Urethane and other foam product (except polystyrene) manufacturing	0	948	1,123	2,071
Commercial hunting and trapping	0	0	2,053	2,053
Ball and roller bearing manufacturing	0	630	1,361	1,991
Handtool manufacturing	0	1,796	171	1,967
Printing ink manufacturing	0	602	1,185	1,787
Crown and closure manufacturing and metal stamping	0	556	1,163	1,719
Confectionery manufacturing from purchased chocolate	0	670	862	1,532
Asphalt paving mixture and block manufacturing	0	573	923	1,496
Abrasive product manufacturing	0	412	1,052	1,465
Ornamental and architectural metal products manufacturing	0	405	1,052	1,457
Bread and bakery product manufacturing	0	9	1,389	1,397
Software publishers	0	569	799	1,368
Material handling equipment manufacturing	0	1,182	178	1,360
Coating, engraving, heat treating and allied activities	0	845	420	1,265
Laminated plastics plate, sheet (except packaging), and shape manufacturing	0	481	718	1,199
Communication and energy wire and cable manufacturing	0	308	871	1,179
Power boiler and heat exchanger manufacturing	0	396	726	1,122
Unlaminated plastics profile shape manufacturing	0	513	563	1,076

Employment by Sector (FTEs)				
	Direct	Indirect	Induced	Total
Total Across All Sectors	779	136	516	1431
Greenhouse, nursery, and floriculture production	530	9	0	539
Support activities for agriculture and forestry	170	59	0	230
Food services and drinking places	0	3	70	73
Real estate establishments	0	12	28	40
Offices of physicians, dentists, and other health practitioners	0	0	28	28
Retail Stores - Food and beverage	0	0	25	25
Nursing and residential care facilities	0	0	23	23
Retail Stores - General merchandise	0	0	23	23
Private hospitals	0	0	20	20
Fruit and vegetable canning, pickling, and drying	18	0	0	18
Animal production, except cattle and poultry and eggs	17	0	0	17
Securities, commodity contracts, investments, and related activities	0	2	14	16
Wholesale trade businesses	0	6	9	16
Civic, social, professional, and similar organizations	0	2	13	15
Retail Stores - Motor vehicle and parts	0	0	13	14
Fruit farming	12	0	0	13
Individual and family services	0	0	12	12
Services to buildings and dwellings	0	4	8	12
Employment services	0	2	10	12
Retail Stores - Clothing and clothing accessories	0	0	11	11
Nondepository credit intermediation and related activities	0	1	10	11
Private elementary and secondary schools	0	0	11	11
Retail Stores - Miscellaneous	0	0	10	10
Monetary authorities and depository credit intermediation activities	0	4	6	10
Retail Nonstores - Direct and electronic sales	0	0	9	9
Retail Stores - Health and personal care	0	0	8	9
Personal care services	0	0	8	8
Child day care services	0	0	8	8
Medical and diagnostic labs and outpatient and other ambulatory care services	0	0	7	7
Maintenance and repair construction of nonresidential structures	0	5	3	7
Retail Stores - Building material and garden supply	0	0	6	7
Retail Stores - Sporting goods, hobby, book and music	0	0	6	6
Dairy cattle and milk production	6	0	0	6
Private household operations	0	0	6	6
Automotive repair and maintenance, except car washes	0	1	5	6
Vegetable and melon farming	6	0	0	6
Other state and local government enterprises	0	1	4	5
Retail Stores - Gasoline stations	0	0	5	5
Grain farming	5	0	0	5
Community food, housing, and other relief services, including rehabilitation services	0	0	5	5

Other private educational services	0	0	5	5
Accounting, tax preparation, bookkeeping, and payroll services	0	2	2	4
Oilseed farming	4	0	0	4
Legal services	0	1	3	4
Home health care services	0	0	4	4
Retail Stores - Electronics and appliances	0	0	4	4
Private junior colleges, colleges, universities, and professional schools	0	0	3	4
Grantmaking, giving, and social advocacy organizations	0	0	4	4
Extraction of oil and natural gas	0	2	1	4
Electric power generation, transmission, and distribution	0	2	2	4
Fitness and recreational sports centers	0	0	4	4
Transport by truck	0	2	1	3
Architectural, engineering, and related services	0	2	2	3
Spectator sports companies	0	1	3	3
Investigation and security services	0	0	3	3
Poultry and egg production	3	0	0	3
Retail Stores - Furniture and home furnishings	0	0	3	3
Other amusement and recreation industries	0	0	2	3
Transit and ground passenger transportation	0	0	3	3
Wineries	3	0	0	3
Cattle ranching and farming	2	0	0	3
US Postal Service	0	0	2	2
Advertising and related services	0	0	2	2
Amusement parks, arcades, and gambling industries	0	0	2	2
Dry-cleaning and laundry services	0	0	2	2
Veterinary services	0	0	2	2
All other crop farming	2	0	0	2
Maintenance and repair construction of residential structures	0	0	2	2
Commercial and industrial machinery and equipment repair and maintenance	0	1	1	2
Computer systems design services	0	1	1	1
Newspaper publishers	0	0	1	1
Other personal services	0	0	1	1
Telecommunications	0	0	1	1
Insurance carriers	0	0	1	1
Management, scientific, and technical consulting services	0	0	1	1
Religious organizations	0	0	1	1
Warehousing and storage	0	1	0	1
Business support services	0	0	1	1
Death care services	0	0	1	1
Office administrative services	0	0	1	1
Management of companies and enterprises	0	1	0	1
Insurance agencies, brokerages, and related activities	0	0	1	1
Natural gas distribution	0	1	0	1
Fertilizer manufacturing	0	1	0	1
General and consumer goods rental except video tapes and discs	0	0	1	1

Promoters of performing arts and sports and agents for public figures	0	0	1	1
Museums, historical sites, zoos, and parks	0	0	1	1
Periodical publishers	0	0	1	1
Travel arrangement and reservation services	0	0	1	1
Couriers and messengers	0	0	1	1
Other support services	0	0	1	1
Printing	0	0	1	1
Car washes	0	0	1	1
Soft drink and ice manufacturing	0	0	1	1
Motion picture and video industries	0	0	1	1
Soap and cleaning compound manufacturing	0	1	0	1
Personal and household goods repair and maintenance	0	0	1	1
Scenic and sightseeing transportation and support activities for transportation	0	0	0	1
Other basic organic chemical manufacturing	0	0	0	1
Data processing, hosting, ISP, web search portals and related services	0	0	0	1
State and local government passenger transit	0	0	1	1
Performing arts companies	0	0	1	1
Waste management and remediation services	0	0	0	1

Labor Income (\$)				
	Direct	Indirect	Induced	Total
Total Across All Sectors	77,266,144	4,596,303	16,703,715	98,566,163
Greenhouse, nursery, and floriculture production	72,246,819	1,273,549	17,166	73,537,534
Offices of physicians, dentists, and other health practitioners	-	2	2,114,153	2,114,155
Fruit farming	1,783,997	56,543	10,590	1,851,130
Fruit and vegetable canning, pickling, and drying	1,423,702	1,227	555	1,425,483
Private hospitals	-	1	1,198,808	1,198,809
Wholesale trade businesses	-	480,473	714,871	1,195,344
Food services and drinking places	-	47,985	1,087,939	1,135,925
Vegetable and melon farming	754,507	20,296	4,944	779,747
Nursing and residential care facilities	-	-	739,269	739,269
Retail Stores - Motor vehicle and parts	-	13,012	661,425	674,437
Retail Stores - Food and beverage	-	7,384	630,395	637,778
Nondepository credit intermediation and related activities	-	69,468	503,803	573,271
Retail Stores - General merchandise	-	6,162	529,692	535,854
Electric power generation, transmission, and distribution	-	216,662	257,014	473,676
Monetary authorities and depository credit intermediation activities	-	157,031	271,423	428,454
Medical and diagnostic labs and outpatient and other ambulatory care services	-	48	419,682	419,729
Civic, social, professional, and similar organizations	-	41,643	349,048	390,691
Real estate establishments	-	112,314	269,644	381,958
Other state and local government enterprises	-	74,144	301,688	375,832
Support activities for agriculture and forestry	231,661	80,393	189	312,243
Maintenance and repair construction of nonresidential structures	-	197,409	111,164	308,573
Automotive repair and maintenance, except car washes	-	30,702	271,947	302,650
Retail Stores - Health and personal care	-	3,561	298,365	301,925

Employment services	-	40,749	250,493	291,242
Fertilizer manufacturing	-	281,512	2,377	283,889
Poultry and egg production	282,942	113	22	283,076
Private elementary and secondary schools	-	-	269,902	269,902
Services to buildings and dwellings	-	92,191	171,484	263,675
Retail Stores - Building material and garden supply	-	6,953	247,934	254,887
Legal services	-	46,915	200,728	247,643
Personal care services	-	0	235,875	235,875
Individual and family services	-	-	229,683	229,683
All other crop farming	225,216	2,041	91	227,348
US Postal Service	-	34,178	183,271	217,450
Accounting, tax preparation, bookkeeping, and payroll services	-	104,760	108,142	212,902
Architectural, engineering, and related services	-	104,603	101,760	206,363
Retail Stores - Clothing and clothing accessories	-	2,096	195,235	197,331
Transport by truck	-	114,142	69,355	183,497
Retail Stores - Miscellaneous	-	1,865	166,235	168,100
Child day care services	-	-	164,864	164,864
Home health care services	-	-	160,730	160,730
Grantmaking, giving, and social advocacy organizations	-	10	148,516	148,527
Private junior colleges, colleges, universities, and professional schools	-	15,171	120,155	135,325
Other basic organic chemical manufacturing	-	120,344	14,374	134,718
Retail Stores - Gasoline stations	-	1,972	131,492	133,465
Retail Nonstores - Direct and electronic sales	-	1,234	131,336	132,571
Retail Stores - Electronics and appliances	-	1,488	130,455	131,943

Community food, housing, and other relief services, including rehabilitation services	-	0	130,899	130,899
Natural gas distribution	-	90,452	33,403	123,854
Other private educational services	-	636	122,592	123,227
Management of companies and enterprises	-	72,963	48,468	121,431
Retail Stores - Sporting goods, hobby, book and music	-	1,251	114,663	115,915
Dry-cleaning and laundry services	-	6,916	100,397	107,313
Private household operations	-	-	102,644	102,644
Animal production, except cattle and poultry and eggs	98,523	1,605	398	100,526
Commercial and industrial machinery and equipment repair and maintenance	-	51,662	46,403	98,065
Soap and cleaning compound manufacturing	-	87,237	9,661	96,898
Retail Stores - Furniture and home furnishings	-	856	91,056	91,913
Veterinary services	-	4,312	87,107	91,419
Computer systems design services	-	38,481	51,226	89,707
Advertising and related services	-	17,426	71,492	88,918
Newspaper publishers	-	10,744	77,883	88,627
Management, scientific, and technical consulting services	-	10,998	68,300	79,298
Telecommunications	-	11,571	62,674	74,245
Insurance carriers	-	1,972	69,661	71,633
Office administrative services	-	9,121	58,688	67,809
Securities, commodity contracts, investments, and related activities	-	6,606	60,087	66,693
Investigation and security services	-	8,173	57,987	66,160
Insurance agencies, brokerages, and related activities	-	5,112	58,600	63,712
Dairy cattle and milk production	62,151	116	7	62,274
Warehousing and storage	-	38,852	22,656	61,508

Periodical publishers	-	11,592	49,049	60,641
Death care services	-	-	54,037	54,037
Oilseed farming	51,886	390	6	52,283
Business support services	-	7,404	41,167	48,571
General and consumer goods rental except video tapes and discs	-	2,302	44,144	46,446
Fitness and recreational sports centers	-	1,235	42,988	44,222
Maintenance and repair construction of residential structures	-	1,236	42,620	43,856
Waste management and remediation services	-	7,903	35,074	42,977
Transit and ground passenger transportation	-	2,064	40,624	42,689
Religious organizations	-	-	40,891	40,891
Other amusement and recreation industries	-	4,010	36,060	40,070
Soft drink and ice manufacturing	-	4,594	35,117	39,710
Wineries	38,095	139	128	38,362
Amusement parks, arcades, and gambling industries	-	6	38,082	38,088
Cattle ranching and farming	35,836	2,204	20	38,061
Commercial and industrial machinery and equipment rental and leasing	-	29,764	5,809	35,573
Extraction of oil and natural gas	-	22,956	11,664	34,620
Printing	-	6,565	26,264	32,829
Grain farming	30,809	1,204	49	32,062
Other personal services	-	236	29,807	30,043
Spectator sports companies	-	4,972	24,243	29,214
Travel arrangement and reservation services	-	2,181	26,669	28,849
Scenic and sightseeing transportation and support activities for transportation	-	7,790	19,441	27,231
Personal and household goods repair and maintenance	-	2,995	23,429	26,424

State and local government passenger transit	-	1,241	24,412	25,652
Scientific research and development services	-	11,110	13,577	24,687
Other support services	-	3,813	20,299	24,112
Paperboard container manufacturing	-	17,097	2,236	19,333
Custom computer programming services	-	8,330	10,940	19,270
Coated and laminated paper, packaging paper and plastics film manufacturing	-	9,827	8,665	18,492
Electronic and precision equipment repair and maintenance	-	3,657	12,371	16,028
Museums, historical sites, zoos, and parks	-	-	15,003	15,003
Couriers and messengers	-	2,569	12,414	14,983
Water, sewage and other treatment and delivery systems	-	2,995	11,919	14,914
State and local government electric utilities	-	6,123	7,832	13,955
Other computer related services, including facilities management	-	6,190	6,740	12,929
Environmental and other technical consulting services	-	1,586	9,780	11,366
Other information services	-	722	10,637	11,359
Motion picture and video industries	-	358	10,041	10,399
Mining and quarrying other nonmetallic minerals	-	9,377	953	10,330
Sign manufacturing	-	2,031	8,290	10,321

Total Value Added (\$)				
	Direct	Indirect	Induced	Total
Total Across All Sectors	55,050,774	7,506,253	32,711,968	95,268,994
Greenhouse, nursery, and floriculture production	48,539,946	855,650	11,533	49,407,130
Imputed rental activity for owner-occupied dwellings	0	0	7,662,556	7,662,556
Real estate establishments	0	1,155,720	2,774,652	3,930,372
Fruit and vegetable canning, pickling, and drying	3,048,114	2,626	1,188	3,051,927
Offices of physicians, dentists, and other health practitioners	0	2	2,186,683	2,186,685
Wholesale trade businesses	0	837,828	1,246,559	2,084,387
Food services and drinking places	0	77,360	1,753,922	1,831,282
Electric power generation, transmission, and distribution	0	816,954	969,109	1,786,063
Fruit farming	1,368,846	43,385	8,126	1,420,357
Monetary authorities and depository credit intermediation activities	0	517,412	894,330	1,411,742
Private hospitals	0	2	1,312,105	1,312,107
Retail Stores - Food and beverage	0	10,770	919,464	930,233
Retail Stores - General merchandise	0	9,816	843,746	853,561
Nursing and residential care facilities	0	0	851,153	851,153
Retail Stores - Motor vehicle and parts	0	14,404	732,152	746,555
Nondepository credit intermediation and related activities	0	79,092	573,601	652,693
Vegetable and melon farming	584,083	15,712	3,827	603,622
Medical and diagnostic labs and outpatient and other ambulatory care services	0	58	511,704	511,762
Retail Stores - Health and personal care	0	4,802	402,399	407,201
Legal services	0	76,416	326,952	403,368
Civic, social, professional, and similar organizations	0	41,530	348,103	389,633
Fertilizer manufacturing	0	384,841	3,249	388,091
Maintenance and repair construction of nonresidential structures	0	238,190	134,128	372,319
Retail Stores - Building material and garden supply	0	9,813	349,921	359,733
Services to buildings and dwellings	0	124,251	231,118	355,369
Natural gas distribution	0	254,816	94,101	348,916
Poultry and egg production	343,757	137	27	343,921
Automotive repair and maintenance, except car washes	0	34,842	308,616	343,458
Telecommunications	0	50,133	271,543	321,676
Employment services	0	44,189	271,640	315,829
Retail Stores - Clothing and clothing accessories	0	3,327	309,933	313,260
Dairy cattle and milk production	310,392	579	33	311,004
Accounting, tax preparation, bookkeeping, and payroll services	0	147,591	152,355	299,947
Other state and local government enterprises	0	57,510	234,006	291,516
Retail Nonstores - Direct and electronic sales	0	2,574	273,875	276,449
Insurance carriers	0	7,356	259,827	267,183

Retail Stores - Miscellaneous	0	2,959	263,761	266,720
Soap and cleaning compound manufacturing	0	235,434	26,073	261,506
Personal care services	0	0	252,657	252,657
Retail Stores - Gasoline stations	0	3,484	232,270	235,754
Transport by truck	0	139,047	84,488	223,535
Animal production, except cattle and poultry and eggs	214,795	3,500	867	219,162
Individual and family services	0	0	214,197	214,197
US Postal Service	0	33,449	179,359	212,808
Architectural, engineering, and related services	0	106,475	103,581	210,057
Child day care services	0	0	204,129	204,129
Support activities for agriculture and forestry	142,863	49,577	117	192,556
All other crop farming	190,319	1,725	77	192,121
Private elementary and secondary schools	0	0	184,294	184,294
Retail Stores - Electronics and appliances	0	2,071	181,575	183,646
Extraction of oil and natural gas	0	119,576	60,755	180,331
Retail Stores - Sporting goods, hobby, book and music	0	1,912	175,153	177,064
Other basic organic chemical manufacturing	0	153,782	18,368	172,150
Home health care services	0	0	163,350	163,350
Retail Stores - Furniture and home furnishings	0	1,415	150,489	151,905
Advertising and related services	0	29,693	121,824	151,517
Grantmaking, giving, and social advocacy organizations	0	10	142,295	142,305
Private junior colleges, colleges, universities, and professional schools	0	15,649	123,941	139,590
Management of companies and enterprises	0	83,788	55,659	139,447
Community food, housing, and other relief services, including rehabilitation services	0	0	126,122	126,122
Other private educational services	0	623	120,212	120,835
Commercial and industrial machinery and equipment repair and maintenance	0	62,861	56,462	119,323
Newspaper publishers	0	13,962	101,209	115,171
Dry-cleaning and laundry services	0	7,040	102,194	109,234
Oilseed farming	104,064	782	12	104,859
Wineries	103,801	378	350	104,528
Private household operations	0	0	102,644	102,644
Veterinary services	0	4,324	87,353	91,677
Securities, commodity contracts, investments, and related activities	0	8,646	78,649	87,295
Periodical publishers	0	16,210	68,590	84,799
Management, scientific, and technical consulting services	0	11,680	72,540	84,221
Insurance agencies, brokerages, and related activities	0	6,322	72,476	78,798
Warehousing and storage	0	48,932	28,534	77,466
Amusement parks, arcades, and gambling	0	12	75,178	75,190

industries				
Other amusement and recreation industries	0	7,494	67,385	74,879
Waste management and remediation services	0	12,989	57,651	70,640
Investigation and security services	0	8,362	59,327	67,689
Transit and ground passenger transportation	0	3,237	63,688	66,924
Commercial and industrial machinery and equipment rental and leasing	0	55,911	10,913	66,824
Fitness and recreational sports centers	0	1,866	64,952	66,818
Cattle ranching and farming	61,206	3,765	35	65,006
Office administrative services	0	8,376	53,892	62,268
General and consumer goods rental except video tapes and discs	0	2,821	54,091	56,912
Maintenance and repair construction of residential structures	0	1,567	54,001	55,567
Soft drink and ice manufacturing	0	6,408	48,984	55,392
Data processing, hosting, ISP, web search portals and related services	0	4,111	48,494	52,605
Travel arrangement and reservation services	0	3,921	47,948	51,869
Business support services	0	7,340	40,810	48,149
Death care services	0	0	48,045	48,045
Religious organizations	0	0	44,198	44,198
Other support services	0	6,774	36,062	42,836
Printing	0	8,161	32,648	40,809
Museums, historical sites, zoos, and parks	0	0	40,528	40,528
Grain farming	38,588	1,509	61	40,158
Other personal services	0	300	37,826	38,126
Couriers and messengers	0	6,260	30,246	36,506
Mining and quarrying stone	0	27,732	8,279	36,011
Computer systems design services	0	15,285	20,348	35,633
Other information services	0	2,215	32,642	34,856
Personal and household goods repair and maintenance	0	3,851	30,123	33,974
Spectator sports companies	0	5,644	27,521	33,165
Other computer related services, including facilities management	0	15,599	16,986	32,585
Water, sewage and other treatment and delivery systems	0	6,413	25,518	31,931
Scenic and sightseeing transportation and support activities for transportation	0	8,871	22,141	31,012
Lessors of nonfinancial intangible assets	0	14,749	16,187	30,936
Coated and laminated paper, packaging paper and plastics film manufacturing	0	15,310	13,501	28,811
Automotive equipment rental and leasing	0	5,691	21,631	27,322
Scientific research and development services	0	11,117	13,587	24,704
Motion picture and video industries	0	814	22,852	23,666
Paperboard container manufacturing	0	20,592	2,693	23,286
State and local government electric utilities	0	10,015	12,810	22,825
Electronic and precision equipment repair and	0	4,922	16,651	21,573

maintenance				
Mining and quarrying other nonmetallic minerals	0	19,016	1,933	20,948
Photographic services	0	1,009	18,027	19,036
Custom computer programming services	0	7,506	9,858	17,364
Video tape and disc rental	0	0	15,264	15,264
Transport by rail	0	9,549	3,348	12,897
Asphalt shingle and coating materials manufacturing	0	4,540	7,327	11,867
Environmental and other technical consulting services	0	1,592	9,816	11,408
Specialized design services	0	2,714	8,508	11,222
All other miscellaneous professional, scientific, and technical services	0	4,579	6,187	10,767