

October 2017

Tri County Technology Center

Economy Overview



Providing Valid and Reliable Data

Information
Management
Division

Parameters

Regions

Code	Description
40105	Nowata County, OK
40113	Osage County, OK
40147	Washington County, OK

Timeframe

2001 - 2016

Datarun

2017.3 – QCEW Employees, Non-QCEW Employees, and Self-Employed

Economy Overview



Population (2016)	110,312
Jobs (2016)	33,171
Average Earnings (2016)	\$52.0K
Unemployed (1/2017)	2,574
Completions (2016)	457
GRP (2016)	\$4.4B
Exports (2016)	\$5.1B
Imports (2016)	\$6.3B

Population

110.3K 2016 Population 2.8% of State	0.1% Population Growth for the Last 5 Years State Growth 3.6%
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Age Group	2016 Population	% of Population	
Under 5 years	6,268	5.7%	
5 to 9 years	7,174	6.5%	
10 to 14 years	7,358	6.7%	
15 to 19 years	6,919	6.3%	
20 to 24 years	6,165	5.6%	
25 to 29 years	6,493	5.9%	
30 to 34 years	6,775	6.1%	
35 to 39 years	6,309	5.7%	
40 to 44 years	6,152	5.6%	
45 to 49 years	6,420	5.8%	
50 to 54 years	7,440	6.7%	
55 to 59 years	8,128	7.4%	
60 to 64 years	7,441	6.7%	
65 to 69 years	6,513	5.9%	
70 to 74 years	5,165	4.7%	
75 to 79 years	3,966	3.6%	
80 to 84 years	2,953	2.7%	
85 years and over	2,673	2.4%	

Jobs by Industry

33,171 Total Jobs (2016)		51.7% Male (National: 51.4%)		48.3% Female (National: 48.6%)	
NAICS	Industry	2016 Jobs			
11	Crop and Animal Production	232			
21	Mining, Quarrying, and Oil and Gas Extraction	4,273			
22	Utilities	256			
23	Construction	2,051			
31	Manufacturing	1,222			
42	Wholesale Trade	538			
44	Retail Trade	3,525			
48	Transportation and Warehousing	1,132			
51	Information	201			
52	Finance and Insurance	1,041			
53	Real Estate and Rental and Leasing	356			
54	Professional, Scientific, and Technical Services	1,030			
55	Management of Companies and Enterprises	27			
56	Administrative and Support and Waste Management and Remediation Services	1,516			
61	Educational Services	643			
62	Health Care and Social Assistance	3,542			
71	Arts, Entertainment, and Recreation	522			
72	Accommodation and Food Services	2,519			
81	Other Services (except Public Administration)	2,380			
90	Government	6,165			
99	Unclassified Industry	0			

Average Earnings by Industry

\$52.0K

Avg. Earnings (2016)

84% of Nation Avg.

NAICS	Industry	Avg. Earnings (2016)	
11	Crop and Animal Production	\$36,419	
21	Mining, Quarrying, and Oil and Gas Extraction	\$131,401	
22	Utilities	\$71,716	
23	Construction	\$43,550	
31	Manufacturing	\$59,880	
42	Wholesale Trade	\$43,581	
44	Retail Trade	\$28,865	
48	Transportation and Warehousing	\$56,984	
51	Information	\$56,214	
52	Finance and Insurance	\$66,367	
53	Real Estate and Rental and Leasing	\$38,688	
54	Professional, Scientific, and Technical Services	\$65,446	
55	Management of Companies and Enterprises	\$34,891	
56	Administrative and Support and Waste Management and Remediation Services	\$26,460	
61	Educational Services	\$24,419	
62	Health Care and Social Assistance	\$44,401	
71	Arts, Entertainment, and Recreation	\$21,542	
72	Accommodation and Food Services	\$16,887	
81	Other Services (except Public Administration)	\$26,615	
90	Government	\$47,297	
99	Unclassified Industry	\$0	

Unemployment by Industry

2,574

Total Unemployment (1/2017)

NAICS	Industry	Unemployed (1/2017)	% of Regional Unemployment	
11	Crop and Animal Production	3	0%	
21	Mining, Quarrying, and Oil and Gas Extraction	197	8%	
22	Utilities	11	0%	
23	Construction	162	6%	
31	Manufacturing	106	4%	
42	Wholesale Trade	22	1%	
44	Retail Trade	327	13%	
48	Transportation and Warehousing	39	2%	
51	Information	8	0%	
52	Finance and Insurance	37	1%	
53	Real Estate and Rental and Leasing	22	1%	
54	Professional, Scientific, and Technical Services	41	2%	
55	Management of Companies and Enterprises	0	0%	
56	Administrative and Support and Waste Management and Remediation Services	74	3%	
61	Educational Services	62	2%	
62	Health Care and Social Assistance	176	7%	
71	Arts, Entertainment, and Recreation	65	3%	
72	Accommodation and Food Services	185	7%	
81	Other Services (except Public Administration)	106	4%	
90	Government	475	18%	
99	No Previous Work Experience/Unspecified	455	18%	

Top Program Completions

CIP	Program	Completions (2016)	
51	Health professions and related programs	161	
52	Business, management, marketing, and related support services	125	
13	Education	49	
24	Liberal arts and sciences, general studies and humanities	35	
38	Philosophy and religious studies	30	
31	Parks, recreation, leisure, and fitness studies	13	
42	Psychology	12	
39	Theology and religious vocations	10	
45	Social sciences	8	
26	Biological and biomedical sciences	7	

Gross Regional Product (GRP)

\$2,153.7M	\$1,849.4M	\$385.7M	\$4,388.9M
Earnings (2016)	Property Income (2016)	Taxes on Production (2016)	Total GRP (2016)

NAICS	Industry	GRP (2016)	% of Total
11	Crop and Animal Production	\$199,751,160.10	5% 
21	Mining, Quarrying, and Oil and Gas Extraction	\$1,658,936,874.12	38% 
22	Utilities	\$69,791,013.96	2% 
23	Construction	\$148,002,602.97	3% 
31	Manufacturing	\$130,111,934.60	3% 
42	Wholesale Trade	\$60,307,570.05	1% 
44	Retail Trade	\$174,357,214.38	4% 
48	Transportation and Warehousing	\$93,827,644.18	2% 
51	Information	\$39,106,884.99	1% 
52	Finance and Insurance	\$183,970,265.54	4% 
53	Real Estate and Rental and Leasing	\$105,952,035.00	2% 
54	Professional, Scientific, and Technical Services	\$103,289,702.46	2% 
55	Management of Companies and Enterprises	\$2,224,733.65	0% 
56	Administrative and Support and Waste Management and Remediation Services	\$63,323,025.62	1% 

NAICS	Industry	GRP (2016)	% of Total
61	Educational Services	\$18,480,303.30	0%
62	Health Care and Social Assistance	\$181,355,482.89	4% 
71	Arts, Entertainment, and Recreation	\$19,680,046.55	0%
72	Accommodation and Food Services	\$65,523,461.03	1% 
81	Other Services (except Public Administration)	\$88,436,757.31	2% 
90	Government	\$342,180,049.76	8% 
	Other Non-Industries	\$640,244,433.85	15% 

Region Exports

\$5.1B

Exports (2016)

76% of Supply

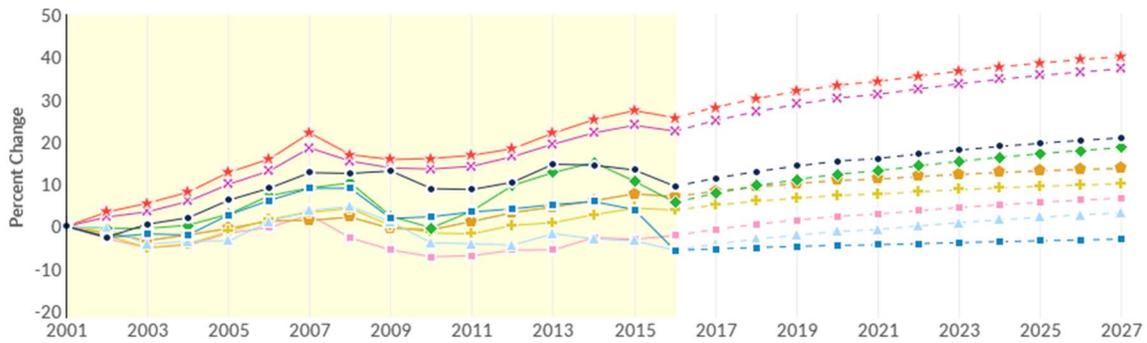
NAICS	Industry	Exports (2016)	
11	Crop and Animal Production	\$475,000,781	
21	Mining, Quarrying, and Oil and Gas Extraction	\$2,038,904,642	
22	Utilities	\$61,372,194	
23	Construction	\$129,641,667	
31	Manufacturing	\$272,359,537	
42	Wholesale Trade	\$54,196,451	
44	Retail Trade	\$196,396,969	
48	Transportation and Warehousing	\$134,001,692	
51	Information	\$50,297,484	
52	Finance and Insurance	\$229,568,521	
53	Real Estate and Rental and Leasing	\$177,869,648	
54	Professional, Scientific, and Technical Services	\$82,232,553	
55	Management of Companies and Enterprises	\$3,604,271	
56	Administrative and Support and Waste Management and Remediation Services	\$72,408,486	
61	Educational Services	\$1,717,548	
62	Health Care and Social Assistance	\$140,044,632	
71	Arts, Entertainment, and Recreation	\$11,548,163	
72	Accommodation and Food Services	\$120,712,484	
81	Other Services (except Public Administration)	\$84,352,015	
90	Government	\$779,029,608	

Region Imports

\$6.3B Imports (2016) 80% of Demand	\$1.6B Locally Produced & Consumed (2016) 20% of Demand
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NAICS	Industry	Imports (2016)	
11	Crop and Animal Production	\$110,690,709	■
21	Mining, Quarrying, and Oil and Gas Extraction	\$15,699,153	
22	Utilities	\$54,434,580	■
23	Construction	\$213,011,185	■
31	Manufacturing	\$975,473,640	■
42	Wholesale Trade	\$290,279,928	■
44	Retail Trade	\$361,184,606	■
48	Transportation and Warehousing	\$155,532,083	■
51	Information	\$252,527,872	■
52	Finance and Insurance	\$450,275,532	■
53	Real Estate and Rental and Leasing	\$221,025,824	■
54	Professional, Scientific, and Technical Services	\$251,448,038	■
55	Management of Companies and Enterprises	\$105,462,164	■
56	Administrative and Support and Waste Management and Remediation Services	\$106,730,380	■
61	Educational Services	\$64,336,118	■
62	Health Care and Social Assistance	\$497,708,065	■
71	Arts, Entertainment, and Recreation	\$52,272,587	■
72	Accommodation and Food Services	\$244,918,256	■
81	Other Services (except Public Administration)	\$68,834,492	■
90	Government	\$1,811,539,038	■

Regional Trends



	Region	2001 Jobs	2016 Jobs	Change	% Change
●	Region	30,298	33,171	2,873	9.5%
●	Red River Technology Center	20,007	18,873	-1,134	-5.7%
●	Pioneer Technology Center	36,707	34,652	-2,055	-5.6%
●	Northwest Technology Center	29,817	31,511	1,694	5.7%
●	Northeast Oklahoma Technology Center	442,440	459,551	17,111	3.9%
●	Moore Norman Technology Center	73,584	92,479	18,895	25.7%
●	Mid-Del Technology Center	462,321	494,891	32,570	7.0%
●	Mid-America Technology Center	114,417	140,171	25,754	22.5%
●	Metro Technology Center	462,321	494,891	32,570	7.0%
●	Meridian Technology Center	67,371	65,918	-1,453	-2.2%

Growing & Declining Occupations

Occupation	Change in Jobs (2001-2016)	
Laborers and Freight, Stock, and Material Movers, Hand	283	
Customer Service Representatives	186	
Personal Care Aides	177	
Childcare Workers	-182	
Maids and Housekeeping Cleaners	-187	
Farmers, Ranchers, and Other Agricultural Managers	-363	

Growing & Declining Industries

Industry	Change in Jobs (2001-2016)	
Local Government, Excluding Education and Hospitals	1,411	
Crude Petroleum and Natural Gas Extraction	1,313	
General Warehousing and Storage	648	
Pump and Pumping Equipment Manufacturing	-355	
Animal Production and Aquaculture	-407	
Private Households	-461	

2016 Educational Attainment



	Education Level	2016 Population	2016 Percent
●	Less Than 9th Grade	2,681	3.5% 
●	9th Grade to 12th Grade	6,352	8.3% 
●	High School Diploma	28,768	37.6% 
●	Some College	15,991	20.9% 
●	Associate's Degree	5,717	7.5% 
●	Bachelor's Degree	11,493	15.0% 
●	Graduate Degree and Higher	5,426	7.1% 

2016 Age Cohort Demographics



	Age Cohort	2016 Population	2016 Percent	
●	Under 20 years	27,718	25.1%	<div style="width: 25.1%;"></div>
●	20 to 39 years	25,742	23.3%	<div style="width: 23.3%;"></div>
●	40 to 59 years	28,140	25.5%	<div style="width: 25.5%;"></div>
●	60 to 79 years	23,085	20.9%	<div style="width: 20.9%;"></div>
●	80 years and over	5,626	5.1%	<div style="width: 5.1%;"></div>

2016 Race/Ethnicity Demographics



	Race/Ethnicity	2016 Population	2016 Percent
●	All Other Race/ethnicities	6,349	5.8% ■
●	Black, Non-Hispanic	6,853	6.2% ■
●	Two or More Races, Non-Hispanic	7,582	6.9% ■
●	American Indian or Alaskan Native, Non-Hispanic	13,976	12.7% ■
●	White, Non-Hispanic	75,552	68.5% ■

Top Regional Businesses

Business Name	Business Size
Jane Phillips Medical Ctr	Large (250+)
Osage Casino	Large (250+)
Asplundh Tree Expert Co	Large (250+)
Walmart Supercenter	Large (250+)
Schlumberger	Large (250+)

Appendix A - Data Sources and Calculations

Input-Output Data

The input-output model in this report is Emsi's gravitational flows multi-regional social account matrix model (MR-SAM). It is based on data from the Census Bureau's Current Population Survey and American Community Survey; as well as the Bureau of Economic Analysis' National Income and Product Accounts, Input-Output Make and Use Tables, and Gross State Product data. In addition, several Emsi in-house data sets are used, as well as data from Oak Ridge National Labs on the cost of transportation between counties.

Completers Data

The completers data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

Demographic Data

The demographic data in this report is compiled from several sources using a specialized process. Sources include annual population estimates and population projections from the US Census Bureau, birth and mortality rates from the US Health Department, and projected regional job growth.

Industry Data

Emsi industry data have various sources depending on the class of worker. (1) For QCEW Employees, Emsi primarily uses the QCEW (Quarterly Census of Employment and Wages), with supplemental estimates from County Business Patterns. (2) Non-QCEW employees data are based on a number of sources including QCEW, Current Employment Statistics, County Business Patterns, BEA State and Local Personal Income reports, the National Industry-Occupation Employment Matrix (NIOEM), the American Community Survey, and Railroad Retirement Board statistics. (3) Self-Employed and Extended Proprietor classes of worker data are primarily based on the American Community Survey, Nonemployer Statistics, and BEA State and Local Personal Income Reports. Projections for QCEW and Non-QCEW Employees are informed by NIOEM and long-term industry projections published by individual states.

Institution Data

The institution data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

Unemployment Data

The unemployment data in this report comes from the Bureau of Labor Statistics' Local Area Unemployment Statistics and is updated every two months.

Occupation Data

Emsi occupation employment data are based on final Emsi industry data and final Emsi staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors). Occupational wage estimates also affected by county-level Emsi earnings by industry.

Educational Attainment Data

Emsi's educational attainment numbers are based on Emsi's demographic data and the American Community Survey. By combining these sources, Emsi interpolates for missing years and projects data at the county level. Educational attainment data cover only the population aged 25 years or more and indicate the highest level achieved.

Infogroup Business-Level Data

Data for individual businesses is provided by Infogroup, which maintains a database of more than 16 million U.S. business entities. Note that in aggregate it will not be consistent with Emsi labor market data due to differences in definitions, methodology, coverage, and industry/geographic classification.

State Data Sources

This report uses state data from the following agencies: Oklahoma Employment Security Commission