**October 2017**

# Mid-Del Technology Center

# Economy Overview

Providing Valid and Reliable Data

Information Management Division

# Parameters

## Regions

| Code | Description |
|---|---|
| 40109 | Oklahoma County, OK |

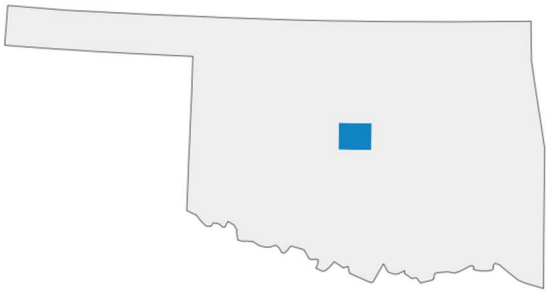
## Timeframe

2001 - 2016

## Datarun

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

# Economy Overview



| | |
|---|---|
| Population (2016) | 783.0K |
| Jobs (2016) | 494.9K |
| Average Earnings (2016) | $58.6K |
| Unemployed (1/2017) | 15.6K |
| Completions (2016) | 14.2K |
| GRP (2016) | $58.7B |
| Exports (2016) | $101.3B |
| Imports (2016) | $56.4B |

## Population

| 783.0K | 7.3% |
|---|---|
| **2016 Population** | **Population Growth for the Last 5 Years** |
| 20.0% of State | State Growth 3.6% |

| Age Group | 2016 Population | % of Population |
|---|---|---|
| Under 5 years | 60,791 | 7.8% |
| 5 to 9 years | 57,506 | 7.3% |
| 10 to 14 years | 53,453 | 6.8% |
| 15 to 19 years | 48,616 | 6.2% |
| 20 to 24 years | 52,788 | 6.7% |
| 25 to 29 years | 64,040 | 8.2% |
| 30 to 34 years | 60,637 | 7.7% |
| 35 to 39 years | 53,009 | 6.8% |
| 40 to 44 years | 46,241 | 5.9% |
| 45 to 49 years | 44,747 | 5.7% |
| 50 to 54 years | 46,916 | 6.0% |
| 55 to 59 years | 49,406 | 6.3% |
| 60 to 64 years | 43,716 | 5.6% |
| 65 to 69 years | 35,587 | 4.5% |
| 70 to 74 years | 23,378 | 3.0% |
| 75 to 79 years | 16,912 | 2.2% |
| 80 to 84 years | 12,264 | 1.6% |
| 85 years and over | 12,971 | 1.7% |

## Jobs by Industry

| 494,891 | 52.0% | 48.0% |
|---|---|---|
| **Total Jobs (2016)** | **Male** | **Female** |
| | (National: 51.4%) | (National: 48.6%) |

| NAICS | Industry | 2016 Jobs |
|---|---|---|
| 11 | Crop and Animal Production | 435 |
| 21 | Mining, Quarrying, and Oil and Gas Extraction | 12,758 |
| 22 | Utilities | 2,292 |
| 23 | Construction | 25,028 |
| 31 | Manufacturing | 24,788 |
| 42 | Wholesale Trade | 20,793 |
| 44 | Retail Trade | 48,325 |
| 48 | Transportation and Warehousing | 15,570 |
| 51 | Information | 6,853 |
| 52 | Finance and Insurance | 20,173 |
| 53 | Real Estate and Rental and Leasing | 8,006 |
| 54 | Professional, Scientific, and Technical Services | 29,598 |
| 55 | Management of Companies and Enterprises | 8,818 |
| 56 | Administrative and Support and Waste Management and Remediation Services | 34,761 |
| 61 | Educational Services | 9,162 |
| 62 | Health Care and Social Assistance | 60,912 |
| 71 | Arts, Entertainment, and Recreation | 7,649 |
| 72 | Accommodation and Food Services | 43,708 |
| 81 | Other Services (except Public Administration) | 23,464 |
| 90 | Government | 91,798 |
| 99 | Unclassified Industry | <10 |

## Average Earnings by Industry

**$58.6K**

**Avg. Earnings (2016)**

94% of Nation Avg.

| NAICS | Industry | Avg. Earnings (2016) |
|---|---|---|
| 11 | Crop and Animal Production | $31,087 |
| 21 | Mining, Quarrying, and Oil and Gas Extraction | $152,482 |
| 22 | Utilities | $130,864 |
| 23 | Construction | $53,825 |
| 31 | Manufacturing | $69,297 |
| 42 | Wholesale Trade | $65,762 |
| 44 | Retail Trade | $35,137 |
| 48 | Transportation and Warehousing | $56,205 |
| 51 | Information | $73,732 |
| 52 | Finance and Insurance | $77,335 |
| 53 | Real Estate and Rental and Leasing | $48,911 |
| 54 | Professional, Scientific, and Technical Services | $73,115 |
| 55 | Management of Companies and Enterprises | $101,090 |
| 56 | Administrative and Support and Waste Management and Remediation Services | $39,546 |
| 61 | Educational Services | $37,894 |
| 62 | Health Care and Social Assistance | $62,991 |
| 71 | Arts, Entertainment, and Recreation | $47,414 |
| 72 | Accommodation and Food Services | $20,163 |
| 81 | Other Services (except Public Administration) | $29,986 |
| 90 | Government | $73,140 |
| 99 | Unclassified Industry | $47,355 |

## Unemployment by Industry

**15,601**

**Total Unemployment (1/2017)**

| NAICS | Industry | Unemployed (1/2017) | % of Regional Unemployment |
|---|---|---|---|
| 11 | Crop and Animal Production | 2 | 0% |
| 21 | Mining, Quarrying, and Oil and Gas Extraction | 387 | 2% |
| 22 | Utilities | 62 | 0% |
| 23 | Construction | 1,010 | 6% |
| 31 | Manufacturing | 775 | 5% |
| 42 | Wholesale Trade | 482 | 3% |
| 44 | Retail Trade | 1,719 | 11% |
| 48 | Transportation and Warehousing | 354 | 2% |
| 51 | Information | 199 | 1% |
| 52 | Finance and Insurance | 360 | 2% |
| 53 | Real Estate and Rental and Leasing | 267 | 2% |
| 54 | Professional, Scientific, and Technical Services | 805 | 5% |
| 55 | Management of Companies and Enterprises | 108 | 1% |
| 56 | Administrative and Support and Waste Management and Remediation Services | 1,420 | 9% |
| 61 | Educational Services | 665 | 4% |
| 62 | Health Care and Social Assistance | 1,304 | 8% |
| 71 | Arts, Entertainment, and Recreation | 314 | 2% |
| 72 | Accommodation and Food Services | 1,232 | 8% |
| 81 | Other Services (except Public Administration) | 639 | 4% |
| 90 | Government | 1,433 | 9% |
| 99 | No Previous Work Experience/Unspecified | 2,064 | 13% |

## Top Program Completions

| CIP | Program | Completions (2016) |
|---|---|---|
| 51 | Health professions and related programs | 3,874 |
| 52 | Business, management, marketing, and related support services | 2,017 |
| 24 | Liberal arts and sciences, general studies and humanities | 1,465 |
| 13 | Education | 699 |
| 30 | Multi/interdisciplinary studies | 602 |
| 12 | Personal and culinary services | 503 |
| 43 | Homeland security, law enforcement, firefighting and related protective services | 439 |
| 50 | Visual and performing arts | 422 |
| 15 | Engineering technologies and engineering-related fields | 400 |
| 11 | Computer and information sciences and support services | 388 |

## Gross Regional Product (GRP)

| $33.9B | $21.1B | $3.6B | $58.7B |
|---|---|---|---|
| Earnings (2016) | Property Income (2016) | Taxes on Production (2016) | Total GRP (2016) |

| NAICS | Industry | GRP (2016) | % of Total |
|---|---|---|---|
| 11 | Crop and Animal Production | $53,813,577.71 | 0% |
| 21 | Mining, Quarrying, and Oil and Gas Extraction | $8,391,514,705.24 | 14% |
| 22 | Utilities | $1,184,023,562.65 | 2% |
| 23 | Construction | $2,183,283,779.02 | 4% |
| 31 | Manufacturing | $3,368,801,258.94 | 6% |
| 42 | Wholesale Trade | $3,231,450,521.12 | 6% |
| 44 | Retail Trade | $2,645,716,113.92 | 5% |
| 48 | Transportation and Warehousing | $1,247,641,405.36 | 2% |
| 51 | Information | $1,434,794,092.29 | 2% |
| 52 | Finance and Insurance | $3,805,450,281.00 | 6% |
| 53 | Real Estate and Rental and Leasing | $2,953,581,560.84 | 5% |
| 54 | Professional, Scientific, and Technical Services | $2,985,039,094.96 | 5% |
| 55 | Management of Companies and Enterprises | $1,308,228,901.49 | 2% |
| 56 | Administrative and Support and Waste Management and Remediation Services | $1,985,044,231.05 | 3% |

| NAICS | Industry | GRP (2016) | % of Total |
|---|---|---|---|
| 61 | Educational Services | $398,242,968.13 | 1% |
| 62 | Health Care and Social Assistance | $4,381,094,817.44 | 7% |
| 71 | Arts, Entertainment, and Recreation | $548,689,741.61 | 1% |
| 72 | Accommodation and Food Services | $1,367,947,445.43 | 2% |
| 81 | Other Services (except Public Administration) | $978,278,897.40 | 2% |
| 90 | Government | $9,244,741,935.96 | 16% |
| | Other Non-Industries | $4,995,155,399.58 | 9% |

## Region Exports

**$101.3B**

**Exports (2016)**

74% of Supply

| NAICS | Industry | Exports (2016) |
|---|---|---|
| 11 | Crop and Animal Production | $69,375,166 |
| 21 | Mining, Quarrying, and Oil and Gas Extraction | $10,102,636,174 |
| 22 | Utilities | $991,439,696 |
| 23 | Construction | $683,455,497 |
| 31 | Manufacturing | $6,393,574,442 |
| 42 | Wholesale Trade | $2,463,287,283 |
| 44 | Retail Trade | $2,544,200,762 |
| 48 | Transportation and Warehousing | $1,265,833,312 |
| 51 | Information | $1,443,273,785 |
| 52 | Finance and Insurance | $3,652,577,857 |
| 53 | Real Estate and Rental and Leasing | $4,356,493,635 |
| 54 | Professional, Scientific, and Technical Services | $1,675,315,189 |
| 55 | Management of Companies and Enterprises | $1,503,294,017 |
| 56 | Administrative and Support and Waste Management and Remediation Services | $1,518,995,190 |
| 61 | Educational Services | $183,735,597 |
| 62 | Health Care and Social Assistance | $4,226,045,341 |
| 71 | Arts, Entertainment, and Recreation | $399,900,935 |
| 72 | Accommodation and Food Services | $1,982,174,265 |

| NAICS | Industry | Exports (2016) |
|---|---|---|
| 81 | Other Services (except Public Administration) | $669,017,587 |
| 90 | Government | $55,202,010,287 |

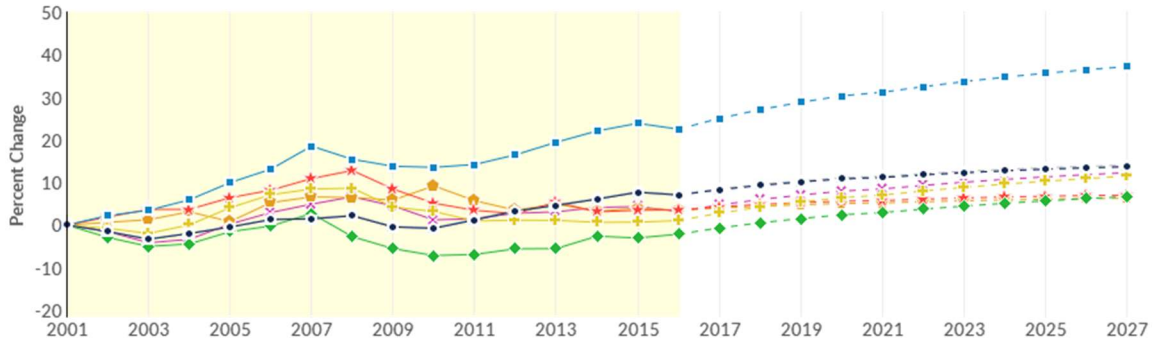
## Region Imports

| $56.4B | $43.4B |
|---|---|
| **Imports (2016)** | **Locally Produced & Consumed (2016)** |
| 57% of Demand | 43% of Demand |

| NAICS | Industry | Imports (2016) |
|---|---|---|
| 11 | Crop and Animal Production | $347,877,206 |
| 21 | Mining, Quarrying, and Oil and Gas Extraction | $181,411,513 |
| 22 | Utilities | $164,890,416 |
| 23 | Construction | $1,389,068,702 |
| 31 | Manufacturing | $9,762,699,985 |
| 42 | Wholesale Trade | $1,281,952,672 |
| 44 | Retail Trade | $1,700,628,495 |
| 48 | Transportation and Warehousing | $1,224,533,788 |
| 51 | Information | $2,615,968,504 |
| 52 | Finance and Insurance | $3,510,633,564 |
| 53 | Real Estate and Rental and Leasing | $2,474,497,295 |
| 54 | Professional, Scientific, and Technical Services | $3,640,182,508 |
| 55 | Management of Companies and Enterprises | $971,665,027 |
| 56 | Administrative and Support and Waste Management and Remediation Services | $1,057,360,483 |
| 61 | Educational Services | $332,558,921 |
| 62 | Health Care and Social Assistance | $1,360,702,025 |
| 71 | Arts, Entertainment, and Recreation | $278,309,835 |
| 72 | Accommodation and Food Services | $1,442,743,71 |

| NAICS | Industry | Imports (2016) |
|---|---|---|
| | | 1 |
| 81 | Other Services (except Public Administration) | $278,052,998 |
| 90 | Government | $22,340,370,159 |

## Regional Trends




| | Region | 2001 Jobs | 2016 Jobs | Change | % Change |
|---|---|---|---|---|---|
| ● | Region | 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% |
| ● | Kiamichi Technology Center | 100,343 | 101,389 | 1,046 | 1.0% |
| ● | Green Country Technology Center | 10,807 | 11,192 | 385 | 3.6% |
| ● | Great Plains Technology Center | 61,823 | 63,951 | 2,128 | 3.4% |
| ● | Gordon Cooper Technology Center | 43,266 | 44,630 | 1,364 | 3.2% |
| ● | Francis Tuttle Technology Center | 470,644 | 504,550 | 33,906 | 7.2% |
| ● | Eastern Oklahoma County Tech Center | 462,321 | 494,891 | 32,570 | 7.0% |

## Growing & Declining Occupations

| Occupation | Change in Jobs (2001-2016) |
|---|---|
| Waiters and Waitresses | 2,115 |
| Combined Food Preparation and Serving Workers, Including Fast Food | 1,783 |
| Accountants and Auditors | 1,420 |
| Telecommunications Equipment Installers and Repairers, Except Line Installers | -993 |
| Military occupations | -1,706 |
| Team Assemblers | -2,634 |

## Growing & Declining Industries

| Industry | Change in Jobs (2001-2016) |
|---|---|
| Crude Petroleum and Natural Gas Extraction | 5,515 |
| Full-Service Restaurants | 5,459 |
| Corporate, Subsidiary, and Regional Managing Offices | 3,873 |
| Wired Telecommunications Carriers | -3,881 |
| Telephone Apparatus Manufacturing | -3,918 |
| Temporary Help Services | -3,943 |

## 2016 Educational Attainment

| | Education Level | 2016 Population | 2016 Percent |
|---|---|---|---|
| ● | Less Than 9th Grade | 36,205 | 7.1% |
| ● | 9th Grade to 12th Grade | 39,137 | 7.7% |
| ● | High School Diploma | 131,009 | 25.7% |
| ● | Some College | 121,568 | 23.8% |
| ● | Associate's Degree | 30,536 | 6.0% |
| ● | Bachelor's Degree | 96,330 | 18.9% |
| ● | Graduate Degree and Higher | 55,038 | 10.8% |

## 2016 Age Cohort Demographics

| | Age Cohort | 2016 Population | 2016 Percent |
|---|---|---|---|
| ● | Under 20 years | 220,366 | 28.1% |
| ● | 20 to 39 years | 230,474 | 29.4% |
| ● | 40 to 59 years | 187,310 | 23.9% |
| ● | 60 to 79 years | 119,593 | 15.3% |
| ● | 80 years and over | 25,235 | 3.2% |

## 2016 Race/Ethnicity Demographics

| | Race/Ethnicity | 2016 Population | 2016 Percent |
|---|---|---|---|
| ● | All Other Race/ethnicities | 72,805 | 9.3% |
| ● | Two or More Races, Non-Hispanic | 35,544 | 4.5% |
| ● | White, Hispanic | 112,249 | 14.3% |
| ● | Black, Non-Hispanic | 119,497 | 15.3% |
| ● | White, Non-Hispanic | 442,883 | 56.6% |

## Top Regional Businesses

| Business Name | Business Size |
|---|---|
| Tinker Air Force Base | Large (250+) |
| Health Sciences Ctr | Large (250+) |
| Us Faa | Large (250+) |
| Ou Children's Hospital | Large (250+) |
| Ou Medical Ctr | 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