

## Region Info

### Region: NEOK

County Areas: Adair, Oklahoma (40001), Cherokee, Oklahoma (40021), Craig, Oklahoma (40035), Delaware, Oklahoma (40041), Kay, Oklahoma (40071), McIntosh, Oklahoma (40091), Mayes, Oklahoma (40097), Muskogee, Oklahoma (40101), Noble, Oklahoma (40103), Nowata, Oklahoma (40105), Okfuskee, Oklahoma (40107), Ottawa, Oklahoma (40115), Payne, Oklahoma (40119), Sequoyah, Oklahoma (40135), Washington, Oklahoma (40147)

## Selected Occupations

| Occupation   | Education Level |
|--|-----------------|
| Management occupations (SOC 11-0000)                                     | N/A             |
| Business and financial operations occupations (SOC 13-0000)              | N/A             |
| Computer and mathematical science occupations (SOC 15-0000)              | N/A             |
| Architecture and engineering occupations (SOC 17-0000)                   | N/A             |
| Life, physical, and social science occupations (SOC 19-0000)             | N/A             |
| Community and social services occupations (SOC 21-0000)                  | N/A             |
| Legal occupations (SOC 23-0000)  | N/A             |
| Education, training, and library occupations (SOC 25-0000)               | N/A             |
| Arts, design, entertainment, sports, and media occupations (SOC 27-0000) | N/A             |
| Healthcare practitioners and technical occupations (SOC 29-0000)         | N/A             |
| Healthcare support occupations (SOC 31-0000)                             | N/A             |
| Protective service occupations (SOC 33-0000)                             | N/A             |
| Food preparation and serving related occupations (SOC 35-0000)           | N/A             |
| Building and grounds cleaning and maintenance occupations (SOC 37-0000)  | N/A             |
| Personal care and service occupations (SOC 39-0000)                      | N/A             |
| Sales and related occupations (SOC 41-0000)                              | N/A             |
| Office and administrative support occupations (SOC 43-0000)              | N/A             |
| Farming, fishing, and forestry occupations (SOC 45-0000)                 | N/A             |
| Construction and extraction occupations (SOC 47-0000)                    | N/A             |
| Installation, maintenance, and repair occupations (SOC 49-0000)          | N/A             |
| Production occupations (SOC 51-0000)                                     | N/A             |
| Transportation and material moving occupations (SOC 53-0000)             | N/A             |
| Military Occupations (SOC 55-0000)                                       | N/A             |

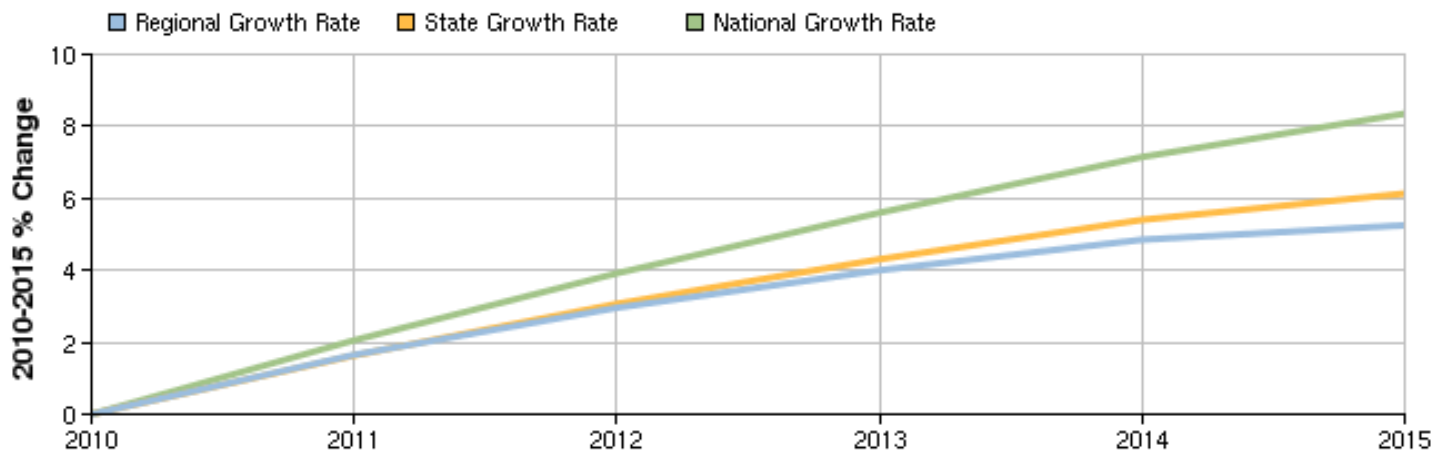
## Executive Summary

| Basic Information      |         |
|------------------------|---------|
| 2010 Occupational Jobs | 268,343 |
| 2015 Occupational Jobs | 282,433 |
| Total Change           | 14,090  |
| Total % Change         | 5.25%   |
| Openings               | 47,319  |
| Median Hourly Earnings | \$13.30 |

| Economic Indicators                          |        |
|--|--------|
| 2010 Location Quotient                       | 1.00   |
| 2015 Location Quotient                       | 1.00   |
| Shift Share: Regional Competitiveness Effect | -7,700 |
| Shift Share: Occupational Mix Effect         | -624   |
| Shift Share: National Effect                 | 22,414 |

Source: EMSI Complete Employment - 3rd Quarter 2010

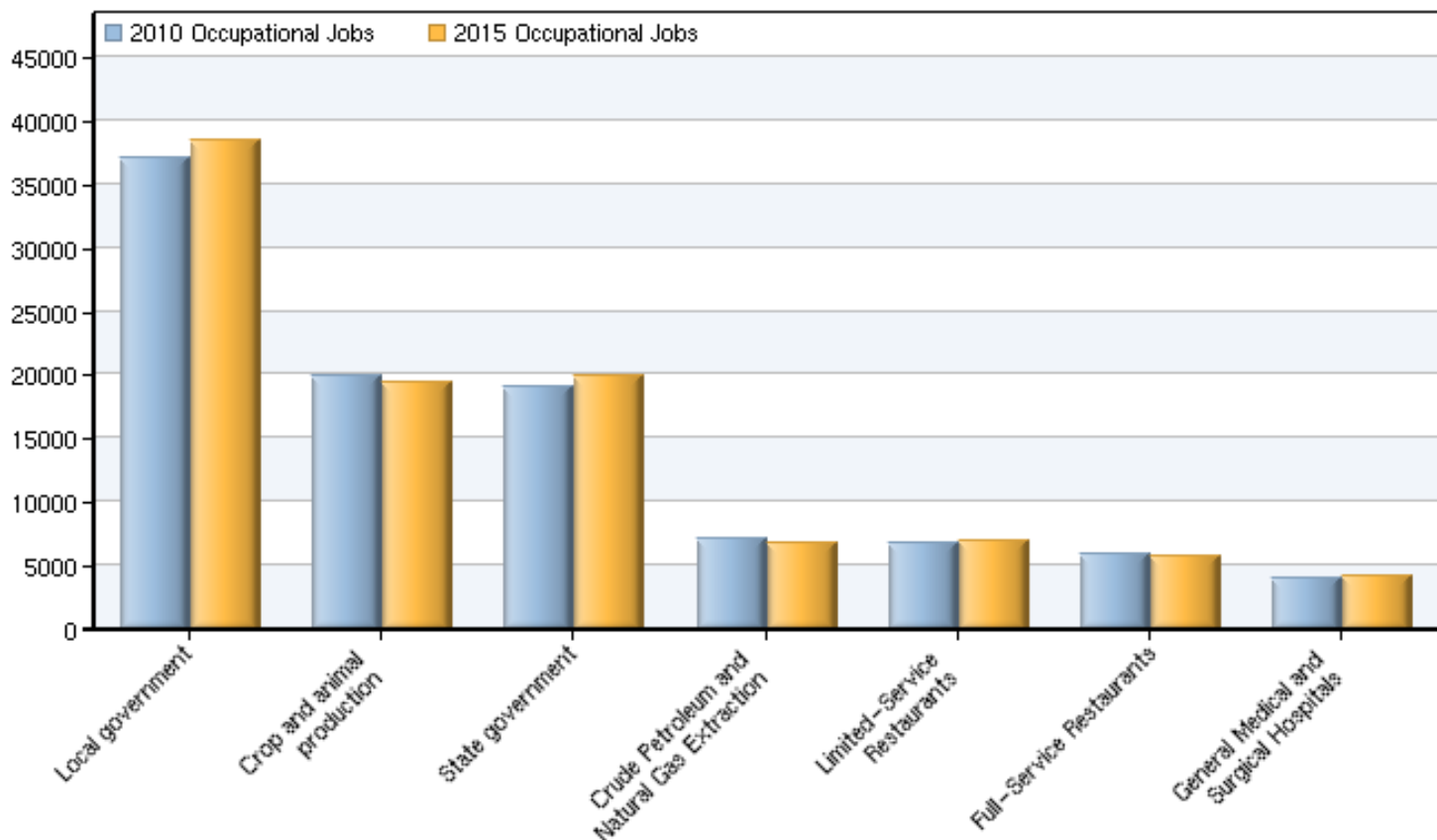
## Occupational Change Summary



| Region         | 2010 Jobs   | 2015 Jobs   | Change     | % Change | Openings   | Median Hourly Earnings |
|----------------|-------------|-------------|------------|----------|------------|------------------------|
| Regional Total | 268,343     | 282,433     | 14,090     | 5%       | 47,319     | \$13.30                |
| State Total    | 2,099,451   | 2,228,214   | 128,763    | 6%       | 385,515    | \$15.14                |
| National Total | 172,073,593 | 186,446,413 | 14,372,820 | 8%       | 35,343,421 | \$17.96                |

Source: EMSI Complete Employment - 3rd Quarter 2010

## Top Industries for Selected Occupations

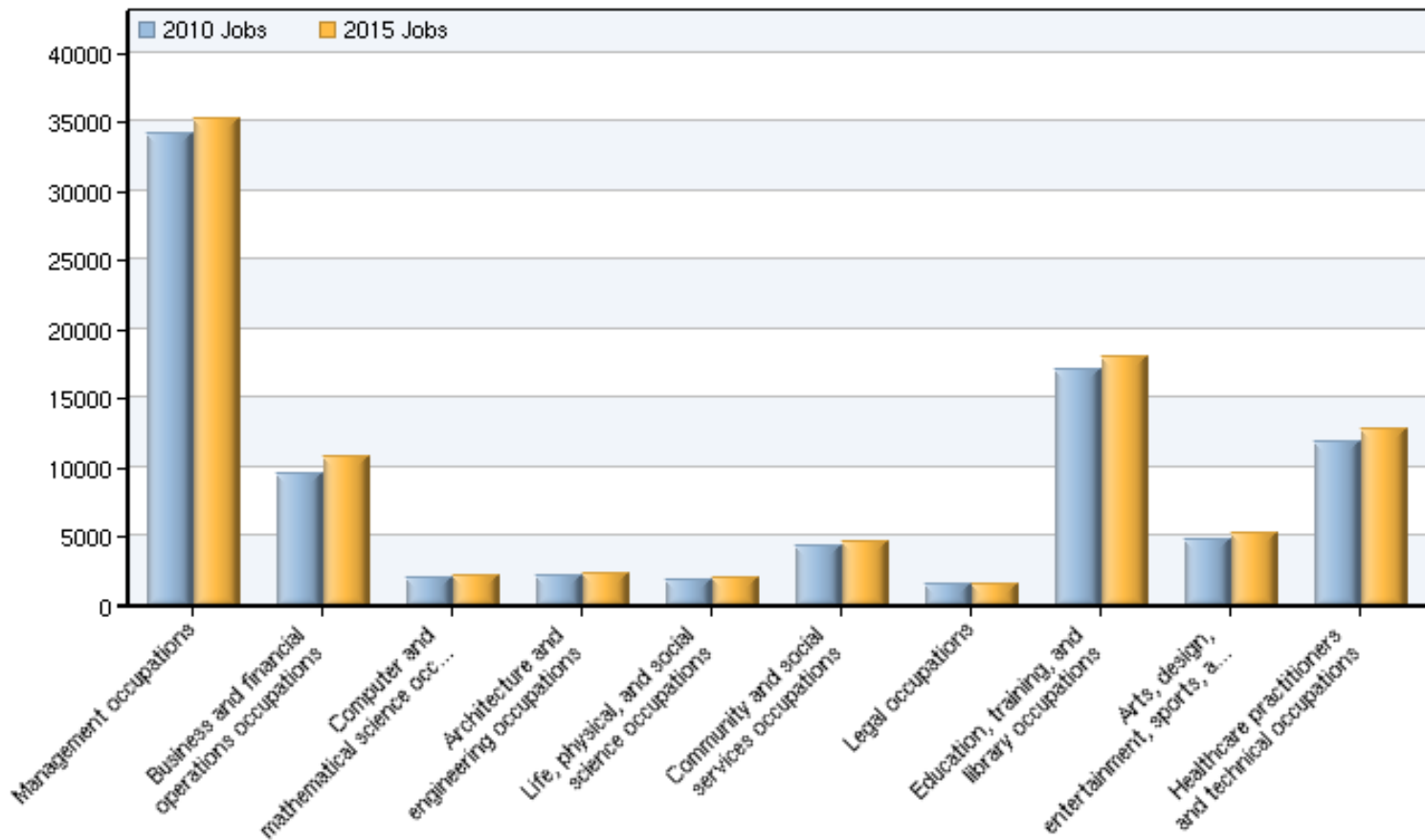


| NAICS Code | Name                                       | 2010 Jobs | 2015 Jobs | Change | % Change |
|------------|--|-----------|-----------|--------|----------|
| 930000     | Local government                           | 36,992    | 38,363    | 1,371  | 4%       |
| 11A000     | Crop and animal production                 | 19,982    | 19,390    | -592   | -3%      |
| 920000     | State government                           | 18,967    | 19,822    | 855    | 5%       |
| 211111     | Crude Petroleum and Natural Gas Extraction | 7,078     | 6,808     | -270   | -4%      |

|        |  |       |       |      |     |
|--------|--|-------|-------|------|-----|
| 722211 | Limited-Service Restaurants            | 6,806 | 6,997 | 191  | 3%  |
| 722110 | Full-Service Restaurants               | 5,846 | 5,723 | -123 | -2% |
| 622110 | General Medical and Surgical Hospitals | 4,024 | 4,225 | 201  | 5%  |

Source: EMSI Complete Employment - 3rd Quarter 2010

## Occupational Breakdown

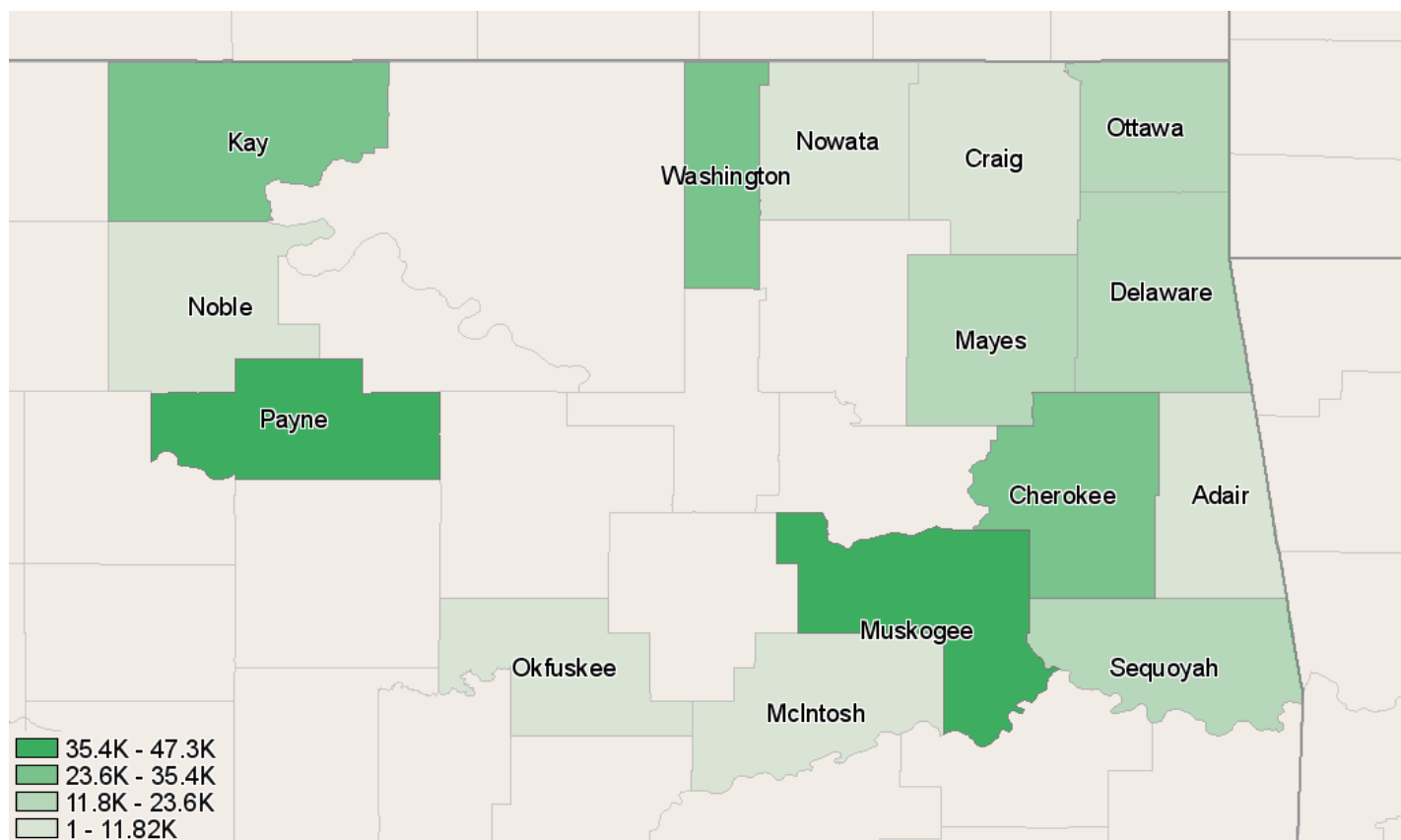


| SOC Code | Description  | 2010 Jobs | 2015 Jobs | Openings | Median Hourly Earnings |
|----------|--|-----------|-----------|----------|------------------------|
| 11-0000  | Management occupations                                     | 34,078    | 35,281    | 4,537    | \$13.90                |
| 13-0000  | Business and financial operations occupations              | 9,586     | 10,820    | 2,171    | \$15.52                |
| 15-0000  | Computer and mathematical science occupations              | 2,050     | 2,168     | 334      | \$18.77                |
| 17-0000  | Architecture and engineering occupations                   | 2,209     | 2,318     | 384      | \$25.54                |
| 19-0000  | Life, physical, and social science occupations             | 1,893     | 2,062     | 473      | \$20.25                |
| 21-0000  | Community and social services occupations                  | 4,301     | 4,607     | 780      | \$13.11                |
| 23-0000  | Legal occupations  | 1,510     | 1,600     | 244      | \$17.12                |
| 25-0000  | Education, training, and library occupations               | 17,101    | 18,054    | 2,873    | \$20.56                |
| 27-0000  | Arts, design, entertainment, sports, and media occupations | 4,727     | 5,215     | 1,071    | \$9.85                 |
| 29-0000  | Healthcare practitioners and technical occupations         | 11,809    | 12,785    | 2,314    | \$28.28                |
| 31-0000  | Healthcare support occupations                             | 6,573     | 7,198     | 1,051    | \$10.15                |
| 33-0000  | Protective service occupations                             | 5,613     | 5,941     | 1,116    | \$13.85                |
| 35-0000  | Food preparation and serving related occupations           | 17,991    | 18,368    | 3,792    | \$8.07                 |
| 37-0000  | Building and grounds cleaning and maintenance occupations  | 9,937     | 10,543    | 1,540    | \$8.46                 |
| 39-0000  | Personal care and service occupations                      | 10,909    | 11,674    | 2,416    | \$8.87                 |
| 41-0000  | Sales and related occupations                              | 30,038    | 32,062    | 6,497    | \$9.73                 |
| 43-0000  | Office and administrative support occupations              | 33,429    | 34,705    | 4,944    | \$11.05                |
| 45-0000  | Farming, fishing, and forestry occupations                 | 3,531     | 3,467     | 541      | \$10.33                |
| 47-0000  | Construction and extraction occupations                    | 16,483    | 18,021    | 3,106    | \$13.88                |
| 49-0000  | Installation, maintenance, and repair occupations          | 9,815     | 10,206    | 1,504    | \$14.71                |

|              |  |                |                |               |                |
|--------------|--|----------------|----------------|---------------|----------------|
| 51-0000      | Production occupations                         | 17,087         | 17,078         | 2,637         | \$13.49        |
| 53-0000      | Transportation and material moving occupations | 15,160         | 15,807         | 2,708         | \$13.39        |
| 55-0000      | Military Occupations                           | 2,514          | 2,449          | 285           | \$9.24         |
| <b>Total</b> |  | <b>268,343</b> | <b>282,433</b> | <b>47,319</b> | <b>\$13.30</b> |

Source: EMSI Complete Employment - 3rd Quarter 2010

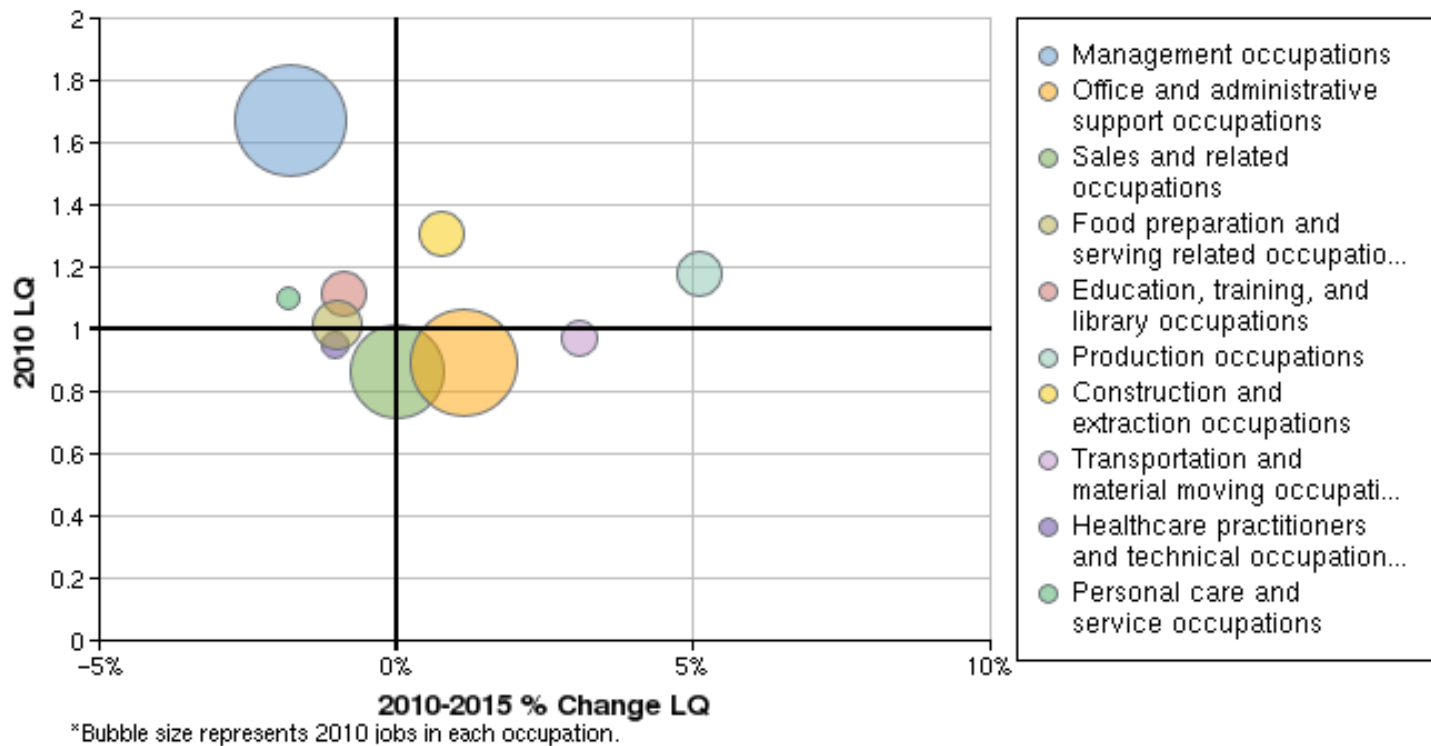
## Occupation Distribution



| County                 | 2010 Jobs |
|------------------------|-----------|
| Payne, OK (40119)      | 47,288    |
| Muskogee, OK (40101)   | 37,459    |
| Kay, OK (40071)        | 28,002    |
| Washington, OK (40147) | 27,463    |
| Cherokee, OK (40021)   | 23,946    |
| Ottawa, OK (40115)     | 16,803    |
| Mayes, OK (40097)      | 16,271    |
| Delaware, OK (40041)   | 15,417    |
| Sequoyah, OK (40135)   | 14,492    |
| Craig, OK (40035)      | 9,631     |
| Adair, OK (40001)      | 8,756     |
| McIntosh, OK (40091)   | 7,868     |
| Noble, OK (40103)      | 6,361     |
| Okfuskee, OK (40107)   | 4,567     |
| Nowata, OK (40105)     | 4,018     |

Source: EMSI Complete Employment - 3rd Quarter 2010

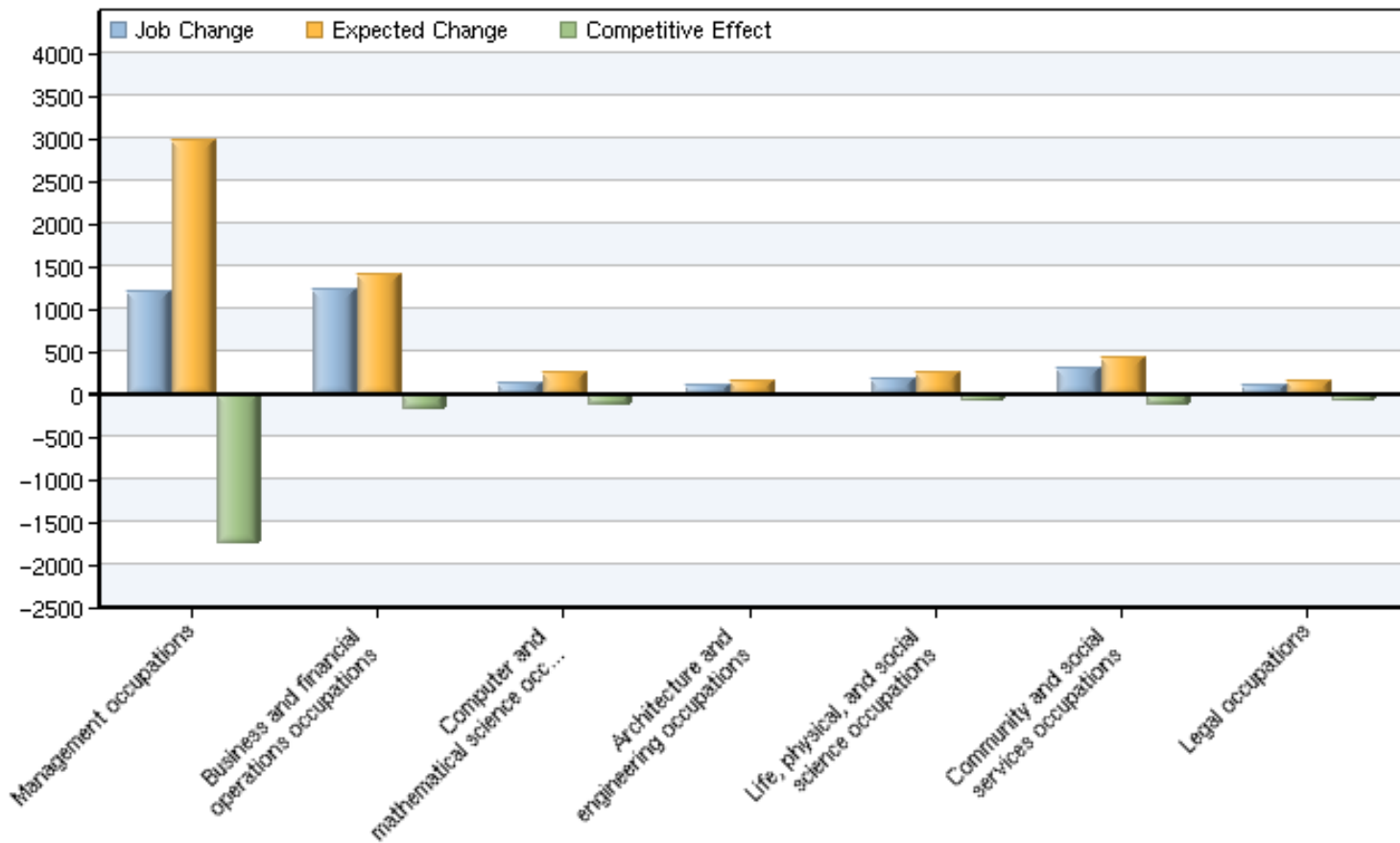
## Location Quotient Breakdown



| SOC Code     | Description  | 2010 Jobs      | 2010 LQ     | 2015 LQ     |
|--------------|--|----------------|-------------|-------------|
| 11-0000      | Management occupations                                     | 34,078         | 1.67        | 1.64        |
| 43-0000      | Office and administrative support occupations              | 33,429         | 0.89        | 0.90        |
| 41-0000      | Sales and related occupations                              | 30,038         | 0.86        | 0.86        |
| 35-0000      | Food preparation and serving related occupations           | 17,991         | 1.01        | 1.00        |
| 25-0000      | Education, training, and library occupations               | 17,101         | 1.12        | 1.11        |
| 51-0000      | Production occupations                                     | 17,087         | 1.18        | 1.24        |
| 47-0000      | Construction and extraction occupations                    | 16,483         | 1.31        | 1.32        |
| 53-0000      | Transportation and material moving occupations             | 15,160         | 0.97        | 1.00        |
| 29-0000      | Healthcare practitioners and technical occupations         | 11,809         | 0.95        | 0.94        |
| 39-0000      | Personal care and service occupations                      | 10,909         | 1.10        | 1.08        |
| 37-0000      | Building and grounds cleaning and maintenance occupations  | 9,937          | 0.91        | 0.90        |
| 49-0000      | Installation, maintenance, and repair occupations          | 9,815          | 1.07        | 1.08        |
| 13-0000      | Business and financial operations occupations              | 9,586          | 0.69        | 0.70        |
| 31-0000      | Healthcare support occupations                             | 6,573          | 0.98        | 0.95        |
| 33-0000      | Protective service occupations                             | 5,613          | 1.11        | 1.12        |
| 27-0000      | Arts, design, entertainment, sports, and media occupations | 4,727          | 0.62        | 0.63        |
| 21-0000      | Community and social services occupations                  | 4,301          | 1.07        | 1.08        |
| 45-0000      | Farming, fishing, and forestry occupations                 | 3,531          | 2.04        | 2.04        |
| 55-0000      | Military Occupations                                       | 2,514          | 0.75        | 0.78        |
| 17-0000      | Architecture and engineering occupations                   | 2,209          | 0.55        | 0.55        |
| 15-0000      | Computer and mathematical science occupations              | 2,050          | 0.35        | 0.34        |
| 19-0000      | Life, physical, and social science occupations             | 1,893          | 0.68        | 0.68        |
| 23-0000      | Legal occupations  | 1,510          | 0.68        | 0.68        |
| <b>Total</b> |  | <b>268,343</b> | <b>1.00</b> | <b>1.00</b> |

Source: EMSI Complete Employment - 3rd Quarter 2010

## Shift Share Breakdown



| SOC Code     | Description  | Job Change    | Occ Mix Effect | Nat Growth Effect | Expected Change | Competitive Effect |
|--------------|--|---------------|----------------|-------------------|-----------------|--------------------|
| 11-0000      | Management occupations                                     | 1,203         | 117            | 2,846             | 2,963           | -1,761             |
| 13-0000      | Business and financial operations occupations              | 1,234         | 603            | 801               | 1,404           | -170               |
| 15-0000      | Computer and mathematical science occupations              | 118           | 74             | 171               | 245             | -128               |
| 17-0000      | Architecture and engineering occupations                   | 109           | -43            | 185               | 142             | -32                |
| 19-0000      | Life, physical, and social science occupations             | 169           | 81             | 158               | 239             | -71                |
| 21-0000      | Community and social services occupations                  | 306           | 69             | 359               | 428             | -122               |
| 23-0000      | Legal occupations  | 90            | 32             | 126               | 158             | -67                |
| 25-0000      | Education, training, and library occupations               | 953           | 84             | 1,428             | 1,512           | -559               |
| 27-0000      | Arts, design, entertainment, sports, and media occupations | 488           | 137            | 395               | 532             | -44                |
| 29-0000      | Healthcare practitioners and technical occupations         | 976           | 440            | 986               | 1,426           | -451               |
| 31-0000      | Healthcare support occupations                             | 625           | 505            | 549               | 1,054           | -429               |
| 33-0000      | Protective service occupations                             | 328           | -25            | 469               | 444             | -116               |
| 35-0000      | Food preparation and serving related occupations           | 377           | -388           | 1,503             | 1,115           | -737               |
| 37-0000      | Building and grounds cleaning and maintenance occupations  | 606           | 200            | 830               | 1,030           | -424               |
| 39-0000      | Personal care and service occupations                      | 765           | 381            | 911               | 1,292           | -526               |
| 41-0000      | Sales and related occupations                              | 2,024         | 415            | 2,509             | 2,924           | -899               |
| 43-0000      | Office and administrative support occupations              | 1,276         | -768           | 2,792             | 2,024           | -748               |
| 45-0000      | Farming, fishing, and forestry occupations                 | -64           | -268           | 295               | 27              | -90                |
| 47-0000      | Construction and extraction occupations                    | 1,538         | 613            | 1,377             | 1,990           | -452               |
| 49-0000      | Installation, maintenance, and repair occupations          | 391           | -252           | 820               | 568             | -176               |
| 51-0000      | Production occupations                                     | -9            | -1,790         | 1,427             | -363            | 353                |
| 53-0000      | Transportation and material moving occupations             | 647           | -567           | 1,266             | 699             | -52                |
| 55-0000      | Military Occupations                                       | -65           | -275           | 210               | -65             | 0                  |
| <b>Total</b> |  | <b>14,085</b> | <b>-624</b>    | <b>22,414</b>     | <b>21,790</b>   | <b>-7,700</b>      |

Source: EMSI Complete Employment - 3rd Quarter 2010

# Data Sources and Calculations

## Industry Data

In order to capture a complete picture of industry employment, EMSI basically combines covered employment data from Quarterly Census of Employment and Wages (QCEW) produced by the Department of Labor with total employment data in Regional Economic Information System (REIS) published by the Bureau of Economic Analysis (BEA), augmented with County Business Patterns (CBP) and Nonemployer Statistics (NES) published by the U.S. Census Bureau. Projections are based on the latest available EMSI industry data, 15-year past local trends in each industry, growth rates in statewide and (where available) sub-state area industry projections published by individual state agencies, and (in part) growth rates in national projections from the Bureau of Labor Statistics.

## Occupation Data

Organizing regional employment information by occupation provides a workforce-oriented view of the regional economy. EMSI's occupation data are based on EMSI's industry data and regional staffing patterns taken from the Occupational Employment Statistics program (U.S. Bureau of Labor Statistics). Wage information is partially derived from the American Community Survey. The occupation-to-program (SOC-to-CIP) crosswalk is based on one from the U.S. Department of Education, with customizations by EMSI.

## Location Quotient

Location quotient (LQ) is a way of quantifying how concentrated a particular industry, cluster, occupation, or demographic group is in a region as compared to the nation. It can reveal what makes a particular region unique in comparison to the national average.

## Shift Share

Shift share is a standard regional analysis method that attempts to determine how much of regional job growth can be attributed to national trends and how much is due to unique regional factors.

## State Data Sources

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