The Economic Base of Grant County, NM

PREPARED BY: Arrowhead Center,
New Mexico State University

DATE: July 2020
Introduction

This report is one of 35 economic base studies prepared by New Mexico State University’s (NMSU) Arrowhead Center. Of the 35 reports, 33 describe the economic base of New Mexico’s counties. There are separate reports for the State of New Mexico and for the Albuquerque Metropolitan Statistical Area (MSA). New Mexico has three additional MSAs (Las Cruces, Santa Fe, and Farmington) all of which are single county MSAs; separate reports for these MSAs were not prepared. All 35 reports may be found at http://arrowheadcenter.nmsu.edu/economic-and-policy-studies/.

The reports have been prepared under the direction of James Peach. Erin Sumner, a graduate student in the NMSU Doctorate in Economic Development program, did much of the work on the updates. Comments and suggestions are welcome and are to be sent to jpeach@nmsu.edu. Our intent is to update these reports on an annual basis.

An economic base study is a descriptive tool used to analyze the composition of local economic activity. Economic base studies are often conducted to help guide local economic development activities and to help economic development officials make decisions such as what type of firms they should attempt to attract to local areas. Economic base studies can also help local and regional businesses to better understand local and export product markets.

The specific purposes of economic base studies include:

- Understand regional economic growth
- Make short and long-term forecasts
- Identify potential growth sectors
- Identify potential problem areas

According to economic base theory, any local economy may be divided into basic and non-basic industries. This theory also suggests that economic growth depends on sectors that export goods and services out of the region (basic industries), as opposed to those businesses whose services remain local, (non-basic industries). Basic industries promote local economic growth by bringing jobs and income into the local economy. Non-basic industries serve local residents and provide support to basic industries.
An industry classified as basic in one region may be identified as non-basic in another region. One common means of identifying local basic activity is through the use of location quotients (LQs). LQs are calculated as a single industry’s percent of total local employment divided by that industry’s percent of total state or national employment. For example, an LQ for a single New Mexico industry (industry j) may be calculated as follows:

\[
LQ = \frac{\text{(Employment in industry j in NM / total employment in NM)}}{\text{(Employment in industry j in US / total employment in US)}}
\]

The LQ serves to illustrate the relative importance in the level of the local employment of that sector with respect to the benchmark economy, state or national. An LQ greater than 1.0 indicates that a particular industry employs proportionately more workers locally than it does at the state or national level. Conversely, an LQ of less than 1.0 indicates that the industry of note employs fewer workers locally as compared to the state or national average. For additional information on LQs, see [http://arrowheadcenter.nmsu.edu/wp-content/uploads/2015/06/WhatisaLocationQuotient.pdf](http://arrowheadcenter.nmsu.edu/wp-content/uploads/2015/06/WhatisaLocationQuotient.pdf).

In this report, LQs are calculated for the industries within Grant County with national employment as the basis for comparison (see Table 1). Additionally, LQs using employment for the state of New Mexico as the benchmark are included (see Table 2). In this report, basic industries are identified using general knowledge about the structure of the local economy combined with LQs greater than 1.0. LQs are described for the most recent year for which data were available and for the four preceding years (2014-2018). The data used in this report are from the U.S. Department of Commerce, Bureau of Economic Analysis (BEA) which can be found at [www.bea.gov](http://www.bea.gov).
Grant County, New Mexico

Grant County is located in southwestern New Mexico and contains 3,961.63 square miles or 3.27 percent of the land area in New Mexico. The population of Grant County in 2018 was 27,346, or 1.31 percent of the state total, ranking 16th in the state of New Mexico in terms of population. Silver City, with a population of 9,783 in 2018, accounted for 35.77 percent of the population in Grant County (U.S Census Bureau, 2018). Between 2014 and 2018, the population of Grant County decreased by 5.26 percent. During the same period between 2014 and 2018, New Mexico’s population increased by 0.24 percent and the United States population increased by 2.76 percent.

Figure 1. Per Capita Personal Income: Grant (2018)

Per capita personal income for Grant County in 2018 was $41,026. Per capita income for Grant County was 98.60 percent of the corresponding state figure of $41,609 and 75.35 percent of the national average of $54,446 (See Figures 1 and 2). Between 2014 and 2018, the growth rate of per capita income in Grant County increased by 16.57 percent, compared to the state (11.91 percent) and the nation (15.70 percent) for the same period.
Total employment in Grant County in 2018 was 13,082. Between 2014 and 2018, total employment decreased by 1.96 percent compared to the state’s 2.93 percent increase and the nation’s 7.79 percent increase. The employment to population ratio for Grant County was 0.48 compared to the state ratio (0.53) and the national ratio (0.61).

In 2018, the Private sector employed 72.01 percent of all workers in Grant County, while Government and Government Enterprises accounted for 24.93 percent and Farm employment accounted for 3.07 percent of total employment. Within the private sector, the industries with the highest percentages of total employment included: Retail Trade (10.91), Healthcare and Social Assistance (9.23), and Construction (4.80). Employment in the public sector is largely concentrated between State and Local government with 12.78 percent of employment for Local government and 10.15 percent of employment for State government. Federal/civilian accounted for 1.48 percent and Military employment accounted for 0.52 percent. Employment for Grant County by sector is displayed in Table 1.

**Basic and Non-Basic Industries in Grant County, New Mexico**

Table 2 contains LQs for Grant County from 2014 to 2018 calculated using data for the United States as the basis of comparison. Table 3 contains LQs for Grant County from 2014 to 2018 calculated with respect to the state of New Mexico. For the purpose of this report, a basic
industry is designated by an LQ greater than 1.0, with respect to the employment in the United States, is considered as a basic industry. The sectors with an LQ greater than 1.0 have been shaded.

The Mining industry has historically been represented by the highest LQ for Grant County and has been considered a basic industry in recent years. However, because data was not disclosed from 2015 to 2018 it is not considered a basic industry for Grant County at the current time.

The Agricultural sector typically includes Farm employment and employment in Forestry, Fisheries and Related Activities. The Farm employment LQ in 2018 was 2.36 with LQs greater than 2.08 in all years considered. Data for the Forestry, Fishing and Related Activities was not reported for 2014 through 2018 and therefore will not be included at the current time. The Farm employment sector will be considered a basic economic activity for Grant County.

In 2018, Retail Trade will be considered a basic industry within Grant County with an LQ of 1.13. This LQ reflects the services demanded by the large tourism base of the Gila National Forest and Gila Cliff Dwellings National Monument located outside of Silver City. Other private sector industries with an LQ above 1.0 in 2018 are the Utilities industry with an LQ of 1.69 and the Management of Companies and Enterprises industry with an LQ of 1.06. However, these industries are considered non-basic for Grant, as no export product or services takes place outside the county.

Government and Government Enterprises are the aggregate figures of all government levels listed as government categories. The LQ of 3.78 for State government employment in Grant County is significantly higher compared to all other LQs in the county. This figure reflects the high level of employment that results from Western New Mexico University (WNMU), a four-year University located in Silver City. As a comprehensive university, WNMU exports educational services. Also, WNMU houses the Small Business Development Center (SBDC) for the region, which is also state funded. State government is classified as basic industry. Federal/civilian employment with an LQ of 1.04 will not be considered a basic industry for Grant County. In 2018, Local government for Grant County had an LQ of 1.78. However, local government is generally categorized as non-basic given that local governments collect taxes
from residents to provide for the services to the community, including employment. Following this practice, local government for Grant County will be considered non-basic industry.

In brief, data and analysis suggests that for 2018 the following should be considered basic industries in Grant County:

1. Agricultural sector (Farm Employment), accounted for 401 jobs (Forestry, Fishing and Related Activities employment was not disclosed).
2. Retail Trade, accounted for 1,427 jobs.
3. State government employment, accounted for 1,328 jobs.

It is common in economic base studies to calculate an export-base employment multiplier. This employment multiplier is obtained by dividing total employment in Grant County by total employment in the basic sectors. In the case of Grant County, the multiplier is equal to 4.15 (13,082/3,156). This ratio suggests that the addition of each basic sector job in Grant County would be associated with additional 4.15 non-basic sector jobs. The export base multiplier (4.15) calculated above reinforces the importance of basic (exporting) industries to the economy of Grant County. In general terms, this employment multiplier is not to be compared to employment multipliers included in economic impact analysis tools including RIMS, REMI, and IMPLAN. In the case of Grant County, potential double counting occupation may result in an upward bias of the multiplier given that farm proprietors often have more than one occupation.

Local economic development policy actions such as the creation of industrial parks, tax abatement and financing, and workforce development projects are often used by local communities to expand an area’s economic base. The development of a community economic development plan is to include the appropriate combination of policies, which often result from public and private sector interaction.
Changes from Prior Year

This document has been revised to reflect figures obtained from the BEA for the economic data and the U.S. Census Bureau for population data. Between 2017 and 2018, the population for Grant County decreased by 1.25 percent, from 27,692 in 2017 to 27,346 in 2018. Per capita income in Grant County experienced a positive growth rate of 7.29 percent from 2017 to 2018. Per capital income grew from $38,237 in 2017 to $41,026 in 2018. Between 2017 and 2018, total employment increased by 257 jobs or a 2.00 percent increase in employment.

Tables 1 to 10 appear on pages 8-17.
Table 1: Grant Employment by Industry 2014-2018

<table>
<thead>
<tr>
<th>Number of jobs by industry</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>By type</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wage and salary employment</td>
<td>10197</td>
<td>10114</td>
<td>9946</td>
<td>9802</td>
<td>9995</td>
</tr>
<tr>
<td>Proprietors employment</td>
<td>3147</td>
<td>3192</td>
<td>3085</td>
<td>3023</td>
<td>3087</td>
</tr>
<tr>
<td>Farm proprietors employment</td>
<td>354</td>
<td>360</td>
<td>359</td>
<td>362</td>
<td>358</td>
</tr>
<tr>
<td>Nonfarm proprietors employment 2/</td>
<td>2793</td>
<td>2832</td>
<td>2726</td>
<td>2661</td>
<td>2729</td>
</tr>
<tr>
<td><strong>By industry</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Farm employment</td>
<td>393</td>
<td>403</td>
<td>407</td>
<td>405</td>
<td>401</td>
</tr>
<tr>
<td>Nonfarm employment</td>
<td>12951</td>
<td>12903</td>
<td>12624</td>
<td>12420</td>
<td>12681</td>
</tr>
<tr>
<td>Private nonfarm employment</td>
<td>9353</td>
<td>9413</td>
<td>9167</td>
<td>9108</td>
<td>9420</td>
</tr>
<tr>
<td>Forestry, fishing, and related activities</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Mining</td>
<td>1742</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Utilities</td>
<td>64</td>
<td>60</td>
<td>75</td>
<td>66</td>
<td>65</td>
</tr>
<tr>
<td>Construction</td>
<td>585</td>
<td>555</td>
<td>594</td>
<td>571</td>
<td>628</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>N/A</td>
<td>208</td>
<td>199</td>
<td>209</td>
<td>215</td>
</tr>
<tr>
<td>Wholesale trade</td>
<td>146</td>
<td>134</td>
<td>111</td>
<td>121</td>
<td>118</td>
</tr>
<tr>
<td>Retail trade</td>
<td>1493</td>
<td>1503</td>
<td>1472</td>
<td>1420</td>
<td>1427</td>
</tr>
<tr>
<td>Transportation and warehousing</td>
<td>140</td>
<td>144</td>
<td>137</td>
<td>158</td>
<td>176</td>
</tr>
<tr>
<td>Information</td>
<td>112</td>
<td>102</td>
<td>112</td>
<td>113</td>
<td>117</td>
</tr>
<tr>
<td>Finance and insurance</td>
<td>266</td>
<td>248</td>
<td>269</td>
<td>279</td>
<td>273</td>
</tr>
<tr>
<td>Real estate and rental and leasing</td>
<td>398</td>
<td>416</td>
<td>363</td>
<td>352</td>
<td>377</td>
</tr>
<tr>
<td>Professional, scientific, and technical services</td>
<td>390</td>
<td>401</td>
<td>N/A</td>
<td>392</td>
<td>408</td>
</tr>
<tr>
<td>Management of companies and enterprises</td>
<td>N/A</td>
<td>150</td>
<td>N/A</td>
<td>169</td>
<td>185</td>
</tr>
<tr>
<td>Administrative and waste management services</td>
<td>N/A</td>
<td>294</td>
<td>293</td>
<td>351</td>
<td>336</td>
</tr>
<tr>
<td>Educational services</td>
<td>130</td>
<td>168</td>
<td>161</td>
<td>170</td>
<td>176</td>
</tr>
<tr>
<td>Health care and social assistance</td>
<td>1191</td>
<td>1213</td>
<td>1201</td>
<td>1171</td>
<td>1207</td>
</tr>
<tr>
<td>Arts, entertainment, and recreation</td>
<td>222</td>
<td>226</td>
<td>198</td>
<td>206</td>
<td>N/A</td>
</tr>
<tr>
<td>Accommodation and food services</td>
<td>1036</td>
<td>1019</td>
<td>1022</td>
<td>1031</td>
<td>N/A</td>
</tr>
<tr>
<td>Other services, except public administration</td>
<td>732</td>
<td>752</td>
<td>734</td>
<td>719</td>
<td>725</td>
</tr>
<tr>
<td>Government and government enterprises</td>
<td>3598</td>
<td>3490</td>
<td>3457</td>
<td>3312</td>
<td>3261</td>
</tr>
<tr>
<td>Federal, civilian</td>
<td>206</td>
<td>202</td>
<td>198</td>
<td>197</td>
<td>193</td>
</tr>
<tr>
<td>Military</td>
<td>77</td>
<td>71</td>
<td>71</td>
<td>70</td>
<td>68</td>
</tr>
<tr>
<td>State and local</td>
<td>3315</td>
<td>3217</td>
<td>3188</td>
<td>3045</td>
<td>3000</td>
</tr>
<tr>
<td>State government</td>
<td>1483</td>
<td>1425</td>
<td>1407</td>
<td>1335</td>
<td>1328</td>
</tr>
<tr>
<td>Local government</td>
<td>1832</td>
<td>1792</td>
<td>1781</td>
<td>1710</td>
<td>1672</td>
</tr>
<tr>
<td><strong>Total employment</strong></td>
<td>13,344</td>
<td>13,306</td>
<td>13,031</td>
<td>12,825</td>
<td>13,082</td>
</tr>
</tbody>
</table>

Source: Bureau of Economic Analysis at www.bea.gov, table CAEMP25N
### Table 2: Location Quotients for Grant (US Base) 2014-2018

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>By type</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wage and salary employment</td>
<td>0.98</td>
<td>0.98</td>
<td>0.98</td>
<td>0.99</td>
<td>0.99</td>
</tr>
<tr>
<td>Proprietors employment</td>
<td>1.06</td>
<td>1.07</td>
<td>1.05</td>
<td>1.03</td>
<td>1.02</td>
</tr>
<tr>
<td>Farm proprietors employment</td>
<td>2.69</td>
<td>2.82</td>
<td>2.93</td>
<td>3.08</td>
<td>3.07</td>
</tr>
<tr>
<td>Nonfarm proprietors employment</td>
<td>0.98</td>
<td>0.99</td>
<td>0.97</td>
<td>0.95</td>
<td>0.94</td>
</tr>
<tr>
<td><strong>By industry</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Farm employment</td>
<td>2.08</td>
<td>2.18</td>
<td>2.29</td>
<td>2.37</td>
<td>2.36</td>
</tr>
<tr>
<td>Nonfarm employment</td>
<td>0.98</td>
<td>0.98</td>
<td>0.98</td>
<td>0.98</td>
<td>0.98</td>
</tr>
<tr>
<td>Private nonfarm employment</td>
<td>0.82</td>
<td>0.82</td>
<td>0.82</td>
<td>0.82</td>
<td>0.83</td>
</tr>
<tr>
<td>Forestry, fishing, and related activities</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Mining</td>
<td>15.22</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Utilities</td>
<td>1.54</td>
<td>1.44</td>
<td>1.79</td>
<td>1.71</td>
<td>1.69</td>
</tr>
<tr>
<td>Construction</td>
<td>0.85</td>
<td>0.81</td>
<td>0.85</td>
<td>0.83</td>
<td>0.88</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>N/A</td>
<td>0.23</td>
<td>0.22</td>
<td>0.24</td>
<td>0.24</td>
</tr>
<tr>
<td>Wholesale trade</td>
<td>0.30</td>
<td>0.28</td>
<td>0.25</td>
<td>0.29</td>
<td>0.28</td>
</tr>
<tr>
<td>Retail trade</td>
<td>1.11</td>
<td>1.13</td>
<td>1.14</td>
<td>1.13</td>
<td>1.13</td>
</tr>
<tr>
<td>Transportation and warehousing</td>
<td>0.31</td>
<td>0.30</td>
<td>0.27</td>
<td>0.28</td>
<td>0.29</td>
</tr>
<tr>
<td>Information</td>
<td>0.47</td>
<td>0.44</td>
<td>0.49</td>
<td>0.51</td>
<td>0.52</td>
</tr>
<tr>
<td>Finance and insurance</td>
<td>0.39</td>
<td>0.36</td>
<td>0.39</td>
<td>0.42</td>
<td>0.40</td>
</tr>
<tr>
<td>Real estate and rental and leasing</td>
<td>0.66</td>
<td>0.69</td>
<td>0.61</td>
<td>0.59</td>
<td>0.61</td>
</tr>
<tr>
<td>Professional, scientific, and technical services</td>
<td>0.42</td>
<td>0.43</td>
<td>N/A</td>
<td>0.43</td>
<td>0.44</td>
</tr>
<tr>
<td>Management of companies and enterprises</td>
<td>N/A</td>
<td>0.88</td>
<td>N/A</td>
<td>1.01</td>
<td>1.06</td>
</tr>
<tr>
<td>Administrative and waste management services</td>
<td>N/A</td>
<td>0.36</td>
<td>0.36</td>
<td>0.44</td>
<td>0.41</td>
</tr>
<tr>
<td>Educational services</td>
<td>0.40</td>
<td>0.52</td>
<td>0.51</td>
<td>0.55</td>
<td>0.57</td>
</tr>
<tr>
<td>Health care and social assistance</td>
<td>0.80</td>
<td>0.81</td>
<td>0.82</td>
<td>0.81</td>
<td>0.82</td>
</tr>
<tr>
<td>Arts, entertainment, and recreation</td>
<td>0.73</td>
<td>0.77</td>
<td>0.67</td>
<td>0.70</td>
<td>N/A</td>
</tr>
<tr>
<td>Accommodation and food services</td>
<td>1.07</td>
<td>1.04</td>
<td>1.05</td>
<td>1.07</td>
<td>N/A</td>
</tr>
<tr>
<td>Other services, except public administration</td>
<td>0.94</td>
<td>0.96</td>
<td>0.98</td>
<td>1.00</td>
<td>0.99</td>
</tr>
<tr>
<td>Government and government enterprises</td>
<td>2.09</td>
<td>2.07</td>
<td>2.11</td>
<td>2.08</td>
<td>2.04</td>
</tr>
<tr>
<td>Federal, civilian</td>
<td>1.03</td>
<td>1.03</td>
<td>1.03</td>
<td>1.06</td>
<td>1.04</td>
</tr>
<tr>
<td>Military</td>
<td>0.54</td>
<td>0.52</td>
<td>0.55</td>
<td>0.56</td>
<td>0.54</td>
</tr>
<tr>
<td>State and local</td>
<td>2.40</td>
<td>2.37</td>
<td>2.42</td>
<td>2.38</td>
<td>2.33</td>
</tr>
<tr>
<td>State government</td>
<td>3.88</td>
<td>3.81</td>
<td>3.90</td>
<td>3.81</td>
<td>3.78</td>
</tr>
<tr>
<td>Local government</td>
<td>1.83</td>
<td>1.83</td>
<td>1.86</td>
<td>1.84</td>
<td>1.78</td>
</tr>
<tr>
<td><strong>Total employment</strong></td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
</tbody>
</table>

Source: Bureau of Economic Analysis at www.bea.gov, table CAEMP25N and author’s calculation
Table 3: Location Quotients for Grant (NM Base) 2014-2018

<table>
<thead>
<tr>
<th>NM Based</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>By type</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wage and salary employment</td>
<td>0.97</td>
<td>0.97</td>
<td>0.97</td>
<td>0.97</td>
<td>0.97</td>
</tr>
<tr>
<td>Proprietors employment</td>
<td>1.11</td>
<td>1.13</td>
<td>1.12</td>
<td>1.10</td>
<td>1.10</td>
</tr>
<tr>
<td>Farm proprietors employment</td>
<td>1.33</td>
<td>1.37</td>
<td>1.40</td>
<td>1.44</td>
<td>1.44</td>
</tr>
<tr>
<td>Nonfarm proprietors employment</td>
<td>1.08</td>
<td>1.10</td>
<td>1.09</td>
<td>1.07</td>
<td>1.06</td>
</tr>
<tr>
<td><strong>By industry</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Farm employment</td>
<td>1.13</td>
<td>1.14</td>
<td>1.14</td>
<td>1.19</td>
<td>1.19</td>
</tr>
<tr>
<td>Nonfarm employment</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>0.99</td>
<td>0.99</td>
</tr>
<tr>
<td>Private nonfarm employment</td>
<td>0.90</td>
<td>0.90</td>
<td>0.90</td>
<td>0.90</td>
<td>0.91</td>
</tr>
<tr>
<td>Forestry, fishing, and related activities</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Mining</td>
<td>3.70</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Utilities</td>
<td>1.13</td>
<td>1.05</td>
<td>1.28</td>
<td>1.22</td>
<td>1.21</td>
</tr>
<tr>
<td>Construction</td>
<td>0.80</td>
<td>0.76</td>
<td>0.83</td>
<td>0.79</td>
<td>0.83</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>N/A</td>
<td>0.50</td>
<td>0.50</td>
<td>0.55</td>
<td>0.55</td>
</tr>
<tr>
<td>Wholesale trade</td>
<td>0.41</td>
<td>0.39</td>
<td>0.37</td>
<td>0.41</td>
<td>0.41</td>
</tr>
<tr>
<td>Retail trade</td>
<td>1.06</td>
<td>1.07</td>
<td>1.09</td>
<td>1.09</td>
<td>1.09</td>
</tr>
<tr>
<td>Transportation and warehousing</td>
<td>0.44</td>
<td>0.43</td>
<td>0.43</td>
<td>0.45</td>
<td>0.46</td>
</tr>
<tr>
<td>Information</td>
<td>0.58</td>
<td>0.54</td>
<td>0.59</td>
<td>0.62</td>
<td>0.65</td>
</tr>
<tr>
<td>Finance and insurance</td>
<td>0.62</td>
<td>0.59</td>
<td>0.63</td>
<td>0.67</td>
<td>0.65</td>
</tr>
<tr>
<td>Real estate and rental and leasing</td>
<td>0.83</td>
<td>0.86</td>
<td>0.76</td>
<td>0.74</td>
<td>0.77</td>
</tr>
<tr>
<td>Professional, scientific, and technical services</td>
<td>0.42</td>
<td>0.42</td>
<td>N/A</td>
<td>0.42</td>
<td>0.43</td>
</tr>
<tr>
<td>Management of companies and enterprises</td>
<td>N/A</td>
<td>2.10</td>
<td>N/A</td>
<td>2.35</td>
<td>2.43</td>
</tr>
<tr>
<td>Administrative and waste management services</td>
<td>N/A</td>
<td>0.46</td>
<td>0.46</td>
<td>0.53</td>
<td>0.50</td>
</tr>
<tr>
<td>Educational services</td>
<td>0.63</td>
<td>0.81</td>
<td>0.79</td>
<td>0.85</td>
<td>0.88</td>
</tr>
<tr>
<td>Health care and social assistance</td>
<td>0.78</td>
<td>0.77</td>
<td>0.75</td>
<td>0.74</td>
<td>0.76</td>
</tr>
<tr>
<td>Arts, entertainment, and recreation</td>
<td>0.74</td>
<td>0.76</td>
<td>0.69</td>
<td>0.70</td>
<td>N/A</td>
</tr>
<tr>
<td>Accommodation and food services</td>
<td>0.95</td>
<td>0.93</td>
<td>0.93</td>
<td>0.94</td>
<td>N/A</td>
</tr>
<tr>
<td>Other services, except public administration</td>
<td>1.08</td>
<td>1.11</td>
<td>1.11</td>
<td>1.12</td>
<td>1.10</td>
</tr>
<tr>
<td>Government and government enterprises</td>
<td>1.39</td>
<td>1.37</td>
<td>1.39</td>
<td>1.38</td>
<td>1.35</td>
</tr>
<tr>
<td>Federal, civilian</td>
<td>0.57</td>
<td>0.57</td>
<td>0.56</td>
<td>0.58</td>
<td>0.57</td>
</tr>
<tr>
<td>Military</td>
<td>0.35</td>
<td>0.35</td>
<td>0.35</td>
<td>0.35</td>
<td>0.33</td>
</tr>
<tr>
<td>State and local</td>
<td>1.66</td>
<td>1.63</td>
<td>1.65</td>
<td>1.63</td>
<td>1.61</td>
</tr>
<tr>
<td>State government</td>
<td>2.05</td>
<td>1.98</td>
<td>2.01</td>
<td>1.99</td>
<td>1.98</td>
</tr>
<tr>
<td>Local government</td>
<td>1.44</td>
<td>1.42</td>
<td>1.45</td>
<td>1.43</td>
<td>1.40</td>
</tr>
<tr>
<td><strong>Total employment</strong></td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
</tbody>
</table>

Source: Bureau of Economic Analysis at www.bea.gov, table CAEMP25N and author’s calculation
<table>
<thead>
<tr>
<th>By type</th>
<th>Total Jobs</th>
<th>Percent of Total Employment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wage and salary employment</td>
<td>9,995</td>
<td>76.40</td>
</tr>
<tr>
<td>Proprietors employment</td>
<td>3,087</td>
<td>23.60</td>
</tr>
<tr>
<td>Farm proprietors employment</td>
<td>358</td>
<td>2.74</td>
</tr>
<tr>
<td>Nonfarm proprietors employment</td>
<td>2,729</td>
<td>20.86</td>
</tr>
<tr>
<td>By industry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Farm employment</td>
<td>401</td>
<td>3.07</td>
</tr>
<tr>
<td>Nonfarm employment</td>
<td>12,681</td>
<td>96.93</td>
</tr>
<tr>
<td>Private nonfarm employment</td>
<td>9,420</td>
<td>72.01</td>
</tr>
<tr>
<td>Forestry, fishing, and related activities</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Mining</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Utilities</td>
<td>65</td>
<td>0.50</td>
</tr>
<tr>
<td>Construction</td>
<td>628</td>
<td>4.80</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>215</td>
<td>1.64</td>
</tr>
<tr>
<td>Wholesale trade</td>
<td>118</td>
<td>0.90</td>
</tr>
<tr>
<td>Retail trade</td>
<td>1,427</td>
<td>10.91</td>
</tr>
<tr>
<td>Transportation and warehousing</td>
<td>176</td>
<td>1.35</td>
</tr>
<tr>
<td>Information</td>
<td>117</td>
<td>0.89</td>
</tr>
<tr>
<td>Finance and insurance</td>
<td>273</td>
<td>2.09</td>
</tr>
<tr>
<td>Real estate and rental and leasing</td>
<td>377</td>
<td>2.88</td>
</tr>
<tr>
<td>Professional, scientific, and technical services</td>
<td>408</td>
<td>3.12</td>
</tr>
<tr>
<td>Management of companies and enterprises</td>
<td>185</td>
<td>1.41</td>
</tr>
<tr>
<td>Administrative and waste management services</td>
<td>336</td>
<td>2.57</td>
</tr>
<tr>
<td>Educational services</td>
<td>176</td>
<td>1.35</td>
</tr>
<tr>
<td>Health care and social assistance</td>
<td>1,207</td>
<td>9.23</td>
</tr>
<tr>
<td>Arts, entertainment, and recreation</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Accommodation and food services</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Other services, except public administration</td>
<td>725</td>
<td>5.54</td>
</tr>
<tr>
<td>Government and government enterprises</td>
<td>3,261</td>
<td>24.93</td>
</tr>
<tr>
<td>Federal, civilian</td>
<td>193</td>
<td>1.48</td>
</tr>
<tr>
<td>Military</td>
<td>68</td>
<td>0.52</td>
</tr>
<tr>
<td>State and local</td>
<td>3,000</td>
<td>22.93</td>
</tr>
<tr>
<td>State government</td>
<td>1,328</td>
<td>10.15</td>
</tr>
<tr>
<td>Local government</td>
<td>1,672</td>
<td>12.78</td>
</tr>
<tr>
<td><strong>Total employment</strong></td>
<td><strong>13,082</strong></td>
<td><strong>100.00</strong></td>
</tr>
</tbody>
</table>

Source: Bureau of Economic Analysis at www.bea.gov, table CAEMP25N and author’s calculation
Table 5: New Mexico Employment by Industry 2014-2018

<table>
<thead>
<tr>
<th>Number of jobs by industry</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>By type</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wage and salary employment</td>
<td>852,638</td>
<td>859,962</td>
<td>861,216</td>
<td>862,809</td>
<td>875,574</td>
</tr>
<tr>
<td>Proprietors employment</td>
<td>231,134</td>
<td>232,022</td>
<td>231,421</td>
<td>234,860</td>
<td>240,000</td>
</tr>
<tr>
<td>Farm proprietors employment</td>
<td>21,557</td>
<td>21,579</td>
<td>21,534</td>
<td>21,511</td>
<td>21,243</td>
</tr>
<tr>
<td>Nonfarm proprietors employ</td>
<td>209,577</td>
<td>210,443</td>
<td>209,887</td>
<td>213,349</td>
<td>218,757</td>
</tr>
<tr>
<td><strong>By industry</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Farm employment</td>
<td>28,346</td>
<td>29,040</td>
<td>29,884</td>
<td>29,031</td>
<td>28,687</td>
</tr>
<tr>
<td>Nonfarm employment</td>
<td>1,055,426</td>
<td>1,062,944</td>
<td>1,062,753</td>
<td>1,068,638</td>
<td>1,086,887</td>
</tr>
<tr>
<td>Private nonfarm employment</td>
<td>845,767</td>
<td>854,456</td>
<td>854,248</td>
<td>862,552</td>
<td>881,228</td>
</tr>
<tr>
<td>Forestry, fishing, and related activities</td>
<td>5,674</td>
<td>5,541</td>
<td>5,820</td>
<td>5,989</td>
<td>6,157</td>
</tr>
<tr>
<td>Mining</td>
<td>38,214</td>
<td>36,656</td>
<td>31,809</td>
<td>31,204</td>
<td>34,490</td>
</tr>
<tr>
<td>Utilities</td>
<td>4,591</td>
<td>4,684</td>
<td>4,900</td>
<td>4,623</td>
<td>4,576</td>
</tr>
<tr>
<td>Construction</td>
<td>59,584</td>
<td>59,707</td>
<td>60,008</td>
<td>62,061</td>
<td>64,328</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>34,027</td>
<td>34,157</td>
<td>33,187</td>
<td>31,562</td>
<td>33,596</td>
</tr>
<tr>
<td>Wholesale trade</td>
<td>28,854</td>
<td>28,501</td>
<td>25,380</td>
<td>24,989</td>
<td>24,563</td>
</tr>
<tr>
<td>Retail trade</td>
<td>113,924</td>
<td>114,887</td>
<td>113,636</td>
<td>111,466</td>
<td>111,663</td>
</tr>
<tr>
<td>Transportation and warehousing</td>
<td>25,905</td>
<td>27,245</td>
<td>26,673</td>
<td>30,016</td>
<td>32,916</td>
</tr>
<tr>
<td>Information</td>
<td>15,725</td>
<td>15,587</td>
<td>16,001</td>
<td>15,491</td>
<td>15,297</td>
</tr>
<tr>
<td>Finance and insurance</td>
<td>34,781</td>
<td>34,461</td>
<td>35,685</td>
<td>35,674</td>
<td>36,018</td>
</tr>
<tr>
<td>Real estate and rental and leasing</td>
<td>39,111</td>
<td>39,659</td>
<td>39,865</td>
<td>40,497</td>
<td>41,842</td>
</tr>
<tr>
<td>Professional, scientific, and technical services</td>
<td>76,116</td>
<td>77,543</td>
<td>77,750</td>
<td>79,918</td>
<td>81,618</td>
</tr>
<tr>
<td>Management of companies and enterprises</td>
<td>5,632</td>
<td>5,875</td>
<td>6,336</td>
<td>6,143</td>
<td>6,488</td>
</tr>
<tr>
<td>Administrative and waste management services</td>
<td>54,370</td>
<td>52,996</td>
<td>53,892</td>
<td>56,396</td>
<td>57,515</td>
</tr>
<tr>
<td>Educational services</td>
<td>16,709</td>
<td>16,959</td>
<td>17,013</td>
<td>17,048</td>
<td>17,004</td>
</tr>
<tr>
<td>Health care and social assistance</td>
<td>124,756</td>
<td>129,722</td>
<td>134,264</td>
<td>134,791</td>
<td>135,667</td>
</tr>
<tr>
<td>Arts, entertainment, and recreation</td>
<td>24,227</td>
<td>24,245</td>
<td>24,150</td>
<td>25,154</td>
<td>26,008</td>
</tr>
<tr>
<td>Accommodation and food services</td>
<td>88,297</td>
<td>90,194</td>
<td>92,523</td>
<td>93,512</td>
<td>95,172</td>
</tr>
<tr>
<td>Other services, except public administration</td>
<td>55,230</td>
<td>55,837</td>
<td>55,356</td>
<td>55,018</td>
<td>56,309</td>
</tr>
<tr>
<td>Government and government enterprises</td>
<td>209,659</td>
<td>208,488</td>
<td>208,505</td>
<td>206,086</td>
<td>205,659</td>
</tr>
<tr>
<td>Federal, civilian</td>
<td>29,451</td>
<td>29,188</td>
<td>29,385</td>
<td>29,281</td>
<td>28,881</td>
</tr>
<tr>
<td>Military</td>
<td>17,809</td>
<td>16,837</td>
<td>17,132</td>
<td>17,346</td>
<td>17,588</td>
</tr>
<tr>
<td>State and local</td>
<td>162,399</td>
<td>162,463</td>
<td>161,988</td>
<td>159,459</td>
<td>159,190</td>
</tr>
<tr>
<td>State government</td>
<td>58,771</td>
<td>58,969</td>
<td>58,707</td>
<td>57,448</td>
<td>57,079</td>
</tr>
<tr>
<td>Local government</td>
<td>103,628</td>
<td>103,494</td>
<td>103,281</td>
<td>102,011</td>
<td>102,111</td>
</tr>
<tr>
<td><strong>Total employment</strong></td>
<td>1,083,772</td>
<td>1,091,984</td>
<td>1,092,637</td>
<td>1,097,669</td>
<td>1,115,574</td>
</tr>
</tbody>
</table>

Source: Bureau of Economic Analysis at www.bea.gov, table CAEMP25N
<table>
<thead>
<tr>
<th>Number of jobs by industry</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>By type</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wage and salary employment</td>
<td>144,722,000</td>
<td>147,636,000</td>
<td>149,912,000</td>
<td>151,860,000</td>
<td>154,375,000</td>
</tr>
<tr>
<td>Proprietors employment</td>
<td>41,511,800</td>
<td>42,679,800</td>
<td>43,459,900</td>
<td>44,965,300</td>
<td>46,371,000</td>
</tr>
<tr>
<td>Farm proprietors employment</td>
<td>1,840,000</td>
<td>1,829,000</td>
<td>1,818,000</td>
<td>1,802,000</td>
<td>1,790,000</td>
</tr>
<tr>
<td>Nonfarm proprietors employment</td>
<td>39,671,800</td>
<td>40,850,800</td>
<td>41,641,900</td>
<td>43,163,300</td>
<td>44,581,000</td>
</tr>
<tr>
<td><strong>By industry</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Farm employment</td>
<td>2,643,000</td>
<td>2,646,000</td>
<td>2,638,000</td>
<td>2,621,000</td>
<td>2,604,000</td>
</tr>
<tr>
<td>Nonfarm employment</td>
<td>183,590,800</td>
<td>187,669,800</td>
<td>190,733,900</td>
<td>194,204,300</td>
<td>198,142,000</td>
</tr>
<tr>
<td>Private nonfarm employment</td>
<td>159,535,800</td>
<td>163,523,800</td>
<td>166,428,900</td>
<td>169,778,300</td>
<td>173,599,000</td>
</tr>
<tr>
<td>Forestry, fishing, and related activities</td>
<td>941,000</td>
<td>915,900</td>
<td>935,200</td>
<td>938,300</td>
<td>969,400</td>
</tr>
<tr>
<td>Utilities</td>
<td>580,600</td>
<td>597,400</td>
<td>622,000</td>
<td>593,800</td>
<td>589,700</td>
</tr>
<tr>
<td>Construction</td>
<td>9,564,300</td>
<td>9,844,900</td>
<td>10,322,100</td>
<td>10,557,000</td>
<td>10,973,300</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>12,907,600</td>
<td>13,076,000</td>
<td>13,131,900</td>
<td>13,235,200</td>
<td>13,391,300</td>
</tr>
<tr>
<td>Wholesale trade</td>
<td>6,719,600</td>
<td>6,817,100</td>
<td>6,463,400</td>
<td>6,492,900</td>
<td>6,422,200</td>
</tr>
<tr>
<td>Retail trade</td>
<td>18,715,100</td>
<td>19,092,300</td>
<td>19,195,500</td>
<td>19,345,100</td>
<td>19,307,500</td>
</tr>
<tr>
<td>Transportation and warehousing</td>
<td>6,282,400</td>
<td>6,932,700</td>
<td>7,418,200</td>
<td>8,520,900</td>
<td>9,364,300</td>
</tr>
<tr>
<td>Information</td>
<td>3,327,000</td>
<td>3,316,400</td>
<td>3,384,900</td>
<td>3,404,500</td>
<td>3,460,100</td>
</tr>
<tr>
<td>Finance and insurance</td>
<td>9,621,000</td>
<td>9,845,600</td>
<td>10,188,400</td>
<td>10,250,300</td>
<td>10,394,600</td>
</tr>
<tr>
<td>Real estate and rental and leasing</td>
<td>8,405,800</td>
<td>8,668,300</td>
<td>8,868,200</td>
<td>9,203,700</td>
<td>9,504,800</td>
</tr>
<tr>
<td>Professional, scientific, and technical services</td>
<td>12,864,700</td>
<td>13,333,200</td>
<td>13,496,900</td>
<td>13,848,200</td>
<td>14,203,900</td>
</tr>
<tr>
<td>Management of companies and enterprises</td>
<td>2,361,300</td>
<td>2,425,500</td>
<td>2,568,700</td>
<td>2,669,500</td>
<td>2,727,300</td>
</tr>
<tr>
<td>Administrative and waste management services</td>
<td>11,719,200</td>
<td>11,770,600</td>
<td>12,034,600</td>
<td>12,212,600</td>
<td>12,472,900</td>
</tr>
<tr>
<td>Educational services</td>
<td>4,498,100</td>
<td>4,610,900</td>
<td>4,641,800</td>
<td>4,702,400</td>
<td>4,771,700</td>
</tr>
<tr>
<td>Health care and social assistance</td>
<td>20,798,400</td>
<td>21,351,100</td>
<td>21,816,100</td>
<td>22,214,300</td>
<td>22,619,800</td>
</tr>
<tr>
<td>Arts, entertainment, and recreation</td>
<td>4,223,300</td>
<td>4,220,100</td>
<td>4,363,100</td>
<td>4,518,600</td>
<td>4,684,900</td>
</tr>
<tr>
<td>Accommodation and food services</td>
<td>13,548,900</td>
<td>13,977,700</td>
<td>14,399,000</td>
<td>14,788,400</td>
<td>15,077,500</td>
</tr>
<tr>
<td>Other services, except public administration</td>
<td>10,862,000</td>
<td>11,174,200</td>
<td>11,091,600</td>
<td>11,065,500</td>
<td>11,257,900</td>
</tr>
<tr>
<td>Government and government enterprises</td>
<td>24,055,000</td>
<td>24,146,000</td>
<td>24,305,000</td>
<td>24,426,000</td>
<td>24,543,000</td>
</tr>
<tr>
<td>Federal, civilian</td>
<td>2,792,000</td>
<td>2,810,000</td>
<td>2,847,000</td>
<td>2,857,000</td>
<td>2,849,000</td>
</tr>
<tr>
<td>Military</td>
<td>1,975,000</td>
<td>1,957,000</td>
<td>1,928,000</td>
<td>1,929,000</td>
<td>1,922,000</td>
</tr>
<tr>
<td>State and local</td>
<td>19,288,000</td>
<td>19,379,000</td>
<td>19,530,000</td>
<td>19,640,000</td>
<td>19,772,000</td>
</tr>
<tr>
<td>State government</td>
<td>5,330,000</td>
<td>5,349,000</td>
<td>5,356,000</td>
<td>5,383,000</td>
<td>5,395,000</td>
</tr>
<tr>
<td>Local government</td>
<td>13,958,000</td>
<td>14,030,000</td>
<td>14,174,000</td>
<td>14,257,000</td>
<td>14,377,000</td>
</tr>
<tr>
<td><strong>Total employment</strong></td>
<td>186,233,800</td>
<td>190,315,800</td>
<td>193,371,900</td>
<td>196,825,300</td>
<td>200,746,000</td>
</tr>
</tbody>
</table>

Source: Bureau of Economic Analysis at www.bea.gov, table CAEMP25N
<table>
<thead>
<tr>
<th>Table 7: Grant, New Mexico and United States Percent of Employment by Industry 2018</th>
<th>United States</th>
<th>New Mexico</th>
<th>Grant</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>By type</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wage and salary employment</td>
<td>76.90</td>
<td>78.49</td>
<td>76.40</td>
</tr>
<tr>
<td>Proprietors employment</td>
<td>23.10</td>
<td>21.51</td>
<td>23.60</td>
</tr>
<tr>
<td>Farm proprietors employment</td>
<td>0.89</td>
<td>1.90</td>
<td>2.74</td>
</tr>
<tr>
<td>Nonfarm proprietors employment</td>
<td>22.21</td>
<td>19.61</td>
<td>20.86</td>
</tr>
<tr>
<td><strong>By industry</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Farm employment</td>
<td>1.30</td>
<td>2.57</td>
<td>3.07</td>
</tr>
<tr>
<td>Nonfarm employment</td>
<td>98.70</td>
<td>97.43</td>
<td>96.93</td>
</tr>
<tr>
<td>Private nonfarm employment</td>
<td>86.48</td>
<td>78.99</td>
<td>72.01</td>
</tr>
<tr>
<td>Forestry, fishing, and related activities</td>
<td>0.48</td>
<td>0.55</td>
<td>N/A</td>
</tr>
<tr>
<td>Mining</td>
<td>0.67</td>
<td>3.09</td>
<td>N/A</td>
</tr>
<tr>
<td>Utilities</td>
<td>0.29</td>
<td>0.41</td>
<td>0.50</td>
</tr>
<tr>
<td>Construction</td>
<td>5.47</td>
<td>5.77</td>
<td>4.80</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>6.73</td>
<td>3.01</td>
<td>1.64</td>
</tr>
<tr>
<td>Wholesale trade</td>
<td>3.20</td>
<td>2.20</td>
<td>0.90</td>
</tr>
<tr>
<td>Retail trade</td>
<td>9.62</td>
<td>10.01</td>
<td>10.91</td>
</tr>
<tr>
<td>Transportation and warehousing</td>
<td>4.66</td>
<td>2.95</td>
<td>1.35</td>
</tr>
<tr>
<td>Information</td>
<td>1.72</td>
<td>1.37</td>
<td>0.89</td>
</tr>
<tr>
<td>Finance and insurance</td>
<td>5.18</td>
<td>3.23</td>
<td>2.09</td>
</tr>
<tr>
<td>Real estate and rental and leasing</td>
<td>4.73</td>
<td>3.75</td>
<td>2.88</td>
</tr>
<tr>
<td>Professional, scientific, and technical services</td>
<td>7.08</td>
<td>7.32</td>
<td>3.12</td>
</tr>
<tr>
<td>Management of companies and enterprises</td>
<td>1.33</td>
<td>0.58</td>
<td>1.41</td>
</tr>
<tr>
<td>Administrative and waste management services</td>
<td>6.21</td>
<td>5.16</td>
<td>2.57</td>
</tr>
<tr>
<td>Educational services</td>
<td>2.38</td>
<td>1.52</td>
<td>1.35</td>
</tr>
<tr>
<td>Health care and social assistance</td>
<td>11.27</td>
<td>12.16</td>
<td>9.23</td>
</tr>
<tr>
<td>Arts, entertainment, and recreation</td>
<td>2.33</td>
<td>2.33</td>
<td>N/A</td>
</tr>
<tr>
<td>Accommodation and food services</td>
<td>7.51</td>
<td>8.53</td>
<td>N/A</td>
</tr>
<tr>
<td>Other services, except public administration</td>
<td>5.61</td>
<td>5.05</td>
<td>5.54</td>
</tr>
<tr>
<td>Government and government enterprises</td>
<td>12.23</td>
<td>18.44</td>
<td>24.93</td>
</tr>
<tr>
<td>Federal, civilian</td>
<td>1.42</td>
<td>2.59</td>
<td>1.48</td>
</tr>
<tr>
<td>Military</td>
<td>0.96</td>
<td>1.58</td>
<td>0.52</td>
</tr>
<tr>
<td>State and local</td>
<td>9.85</td>
<td>14.27</td>
<td>22.93</td>
</tr>
<tr>
<td>State government</td>
<td>2.69</td>
<td>5.12</td>
<td>10.15</td>
</tr>
<tr>
<td>Local government</td>
<td>7.16</td>
<td>9.15</td>
<td>12.78</td>
</tr>
<tr>
<td><strong>Total employment</strong></td>
<td><strong>100.00</strong></td>
<td><strong>100.00</strong></td>
<td><strong>100.00</strong></td>
</tr>
</tbody>
</table>

*Source: Bureau of Economic Analysis at www.bea.gov, table CAEMP25N and author’s calculation*
Table 8: Grant Percent of Employment by Sectors 2014-2018

<table>
<thead>
<tr>
<th>Description</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>By type</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wage and salary employment</td>
<td>76.42</td>
<td>76.01</td>
<td>76.33</td>
<td>76.43</td>
<td>76.40</td>
</tr>
<tr>
<td>Proprietors employment</td>
<td>23.58</td>
<td>23.99</td>
<td>23.67</td>
<td>23.57</td>
<td>23.60</td>
</tr>
<tr>
<td>Farm proprietors employment</td>
<td>2.65</td>
<td>2.71</td>
<td>2.75</td>
<td>2.82</td>
<td>2.74</td>
</tr>
<tr>
<td>Nonfarm proprietors employment</td>
<td>20.93</td>
<td>21.28</td>
<td>20.92</td>
<td>20.75</td>
<td>20.86</td>
</tr>
<tr>
<td><strong>By industry</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Farm employment</td>
<td>2.95</td>
<td>3.03</td>
<td>3.12</td>
<td>3.16</td>
<td>3.07</td>
</tr>
<tr>
<td>Nonfarm employment</td>
<td>97.05</td>
<td>96.97</td>
<td>96.88</td>
<td>96.84</td>
<td>96.93</td>
</tr>
<tr>
<td>Private nonfarm employment</td>
<td>70.09</td>
<td>70.74</td>
<td>70.35</td>
<td>71.02</td>
<td>72.01</td>
</tr>
<tr>
<td>Forestry, fishing, and related activities</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Mining</td>
<td>13.05</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Utilities</td>
<td>0.48</td>
<td>0.45</td>
<td>0.58</td>
<td>0.51</td>
<td>0.50</td>
</tr>
<tr>
<td>Construction</td>
<td>4.38</td>
<td>4.17</td>
<td>4.56</td>
<td>4.45</td>
<td>4.80</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>N/A</td>
<td>1.56</td>
<td>1.53</td>
<td>1.63</td>
<td>1.64</td>
</tr>
<tr>
<td>Wholesale trade</td>
<td>1.09</td>
<td>1.01</td>
<td>0.85</td>
<td>0.94</td>
<td>0.90</td>
</tr>
<tr>
<td>Retail trade</td>
<td>11.19</td>
<td>11.30</td>
<td>11.30</td>
<td>11.07</td>
<td>10.91</td>
</tr>
<tr>
<td>Transportation and warehousing</td>
<td>1.05</td>
<td>1.08</td>
<td>1.05</td>
<td>1.23</td>
<td>1.35</td>
</tr>
<tr>
<td>Information</td>
<td>0.84</td>
<td>0.77</td>
<td>0.86</td>
<td>0.88</td>
<td>0.89</td>
</tr>
<tr>
<td>Finance and insurance</td>
<td>1.99</td>
<td>1.86</td>
<td>2.06</td>
<td>2.18</td>
<td>2.09</td>
</tr>
<tr>
<td>Real estate and rental and leasing</td>
<td>2.98</td>
<td>3.13</td>
<td>2.79</td>
<td>2.74</td>
<td>2.88</td>
</tr>
<tr>
<td>Professional, scientific, and technical services</td>
<td>2.92</td>
<td>3.01</td>
<td>N/A</td>
<td>3.06</td>
<td>3.12</td>
</tr>
<tr>
<td>Management of companies and enterprises</td>
<td>N/A</td>
<td>1.13</td>
<td>N/A</td>
<td>1.32</td>
<td>1.41</td>
</tr>
<tr>
<td>Administrative and waste management services</td>
<td>N/A</td>
<td>2.21</td>
<td>2.25</td>
<td>2.74</td>
<td>2.57</td>
</tr>
<tr>
<td>Educational services</td>
<td>0.97</td>
<td>1.26</td>
<td>1.24</td>
<td>1.33</td>
<td>1.35</td>
</tr>
<tr>
<td>Health care and social assistance</td>
<td>8.93</td>
<td>9.12</td>
<td>9.22</td>
<td>9.13</td>
<td>9.23</td>
</tr>
<tr>
<td>Arts, entertainment, and recreation</td>
<td>1.66</td>
<td>1.70</td>
<td>1.52</td>
<td>1.61</td>
<td>N/A</td>
</tr>
<tr>
<td>Accommodation and food services</td>
<td>7.76</td>
<td>7.66</td>
<td>7.84</td>
<td>8.04</td>
<td>N/A</td>
</tr>
<tr>
<td>Other services, except public administration</td>
<td>5.49</td>
<td>5.65</td>
<td>5.63</td>
<td>5.61</td>
<td>5.54</td>
</tr>
<tr>
<td>Government and government enterprises</td>
<td>26.96</td>
<td>26.23</td>
<td>26.53</td>
<td>25.82</td>
<td>24.93</td>
</tr>
<tr>
<td>Federal, civilian</td>
<td>1.54</td>
<td>1.52</td>
<td>1.52</td>
<td>1.54</td>
<td>1.48</td>
</tr>
<tr>
<td>Military</td>
<td>0.58</td>
<td>0.53</td>
<td>0.54</td>
<td>0.55</td>
<td>0.52</td>
</tr>
<tr>
<td>State and local</td>
<td>24.84</td>
<td>24.18</td>
<td>24.46</td>
<td>23.74</td>
<td>22.93</td>
</tr>
<tr>
<td>State government</td>
<td>11.11</td>
<td>10.71</td>
<td>10.80</td>
<td>10.41</td>
<td>10.15</td>
</tr>
<tr>
<td>Local government</td>
<td>13.73</td>
<td>13.47</td>
<td>13.67</td>
<td>13.33</td>
<td>12.78</td>
</tr>
<tr>
<td><strong>Total employment</strong></td>
<td>100.00</td>
<td>100.00</td>
<td>100.00</td>
<td>100.00</td>
<td>100.00</td>
</tr>
</tbody>
</table>

Source: Bureau of Economic Analysis at www.bea.gov, table CAEMP25N and author’s calculation
<table>
<thead>
<tr>
<th>Description</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>By type</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wage and salary employment</td>
<td>78.67</td>
<td>78.75</td>
<td>78.82</td>
<td>78.60</td>
<td>78.49</td>
</tr>
<tr>
<td>Farm proprietors employment</td>
<td>1.99</td>
<td>1.98</td>
<td>1.97</td>
<td>1.96</td>
<td>1.90</td>
</tr>
<tr>
<td>Nonfarm proprietors employment</td>
<td>19.34</td>
<td>19.27</td>
<td>19.21</td>
<td>19.44</td>
<td>19.61</td>
</tr>
<tr>
<td><strong>By industry</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Farm employment</td>
<td>2.62</td>
<td>2.66</td>
<td>2.74</td>
<td>2.64</td>
<td>2.57</td>
</tr>
<tr>
<td>Nonfarm employment</td>
<td>97.38</td>
<td>97.34</td>
<td>97.26</td>
<td>97.36</td>
<td>97.43</td>
</tr>
<tr>
<td>Private nonfarm employment</td>
<td>78.04</td>
<td>78.25</td>
<td>78.18</td>
<td>78.58</td>
<td>78.99</td>
</tr>
<tr>
<td>Forestry, fishing, and related activities</td>
<td>0.52</td>
<td>0.51</td>
<td>0.53</td>
<td>0.55</td>
<td>0.55</td>
</tr>
<tr>
<td>Mining</td>
<td>3.53</td>
<td>3.36</td>
<td>2.91</td>
<td>2.84</td>
<td>3.09</td>
</tr>
<tr>
<td>Utilities</td>
<td>0.42</td>
<td>0.43</td>
<td>0.45</td>
<td>0.42</td>
<td>0.41</td>
</tr>
<tr>
<td>Construction</td>
<td>5.50</td>
<td>5.47</td>
<td>5.49</td>
<td>5.65</td>
<td>5.77</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>3.14</td>
<td>3.13</td>
<td>3.04</td>
<td>2.97</td>
<td>3.01</td>
</tr>
<tr>
<td>Wholesale trade</td>
<td>2.66</td>
<td>2.61</td>
<td>2.32</td>
<td>2.28</td>
<td>2.20</td>
</tr>
<tr>
<td>Retail trade</td>
<td>10.51</td>
<td>10.52</td>
<td>10.40</td>
<td>10.15</td>
<td>10.01</td>
</tr>
<tr>
<td>Transportation and warehousing</td>
<td>2.39</td>
<td>2.49</td>
<td>2.44</td>
<td>2.73</td>
<td>2.95</td>
</tr>
<tr>
<td>Information</td>
<td>1.45</td>
<td>1.43</td>
<td>1.46</td>
<td>1.41</td>
<td>1.37</td>
</tr>
<tr>
<td>Finance and insurance</td>
<td>3.21</td>
<td>3.16</td>
<td>3.27</td>
<td>3.25</td>
<td>3.23</td>
</tr>
<tr>
<td>Real estate and rental and leasing</td>
<td>3.61</td>
<td>3.63</td>
<td>3.65</td>
<td>3.69</td>
<td>3.75</td>
</tr>
<tr>
<td>Professional, scientific, and technical services</td>
<td>7.02</td>
<td>7.10</td>
<td>7.12</td>
<td>7.28</td>
<td>7.32</td>
</tr>
<tr>
<td>Management of companies and enterprises</td>
<td>0.52</td>
<td>0.54</td>
<td>0.58</td>
<td>0.56</td>
<td>0.58</td>
</tr>
<tr>
<td>Administrative and waste management services</td>
<td>5.02</td>
<td>4.85</td>
<td>4.93</td>
<td>5.14</td>
<td>5.16</td>
</tr>
<tr>
<td>Educational services</td>
<td>1.54</td>
<td>1.55</td>
<td>1.56</td>
<td>1.55</td>
<td>1.52</td>
</tr>
<tr>
<td>Health care and social assistance</td>
<td>11.51</td>
<td>11.88</td>
<td>12.29</td>
<td>12.28</td>
<td>12.16</td>
</tr>
<tr>
<td>Arts, entertainment, and recreation</td>
<td>2.24</td>
<td>2.22</td>
<td>2.21</td>
<td>2.29</td>
<td>2.33</td>
</tr>
<tr>
<td>Accommodation and food services</td>
<td>8.15</td>
<td>8.26</td>
<td>8.47</td>
<td>8.52</td>
<td>8.53</td>
</tr>
<tr>
<td>Other services, except public administration</td>
<td>5.10</td>
<td>5.11</td>
<td>5.07</td>
<td>5.01</td>
<td>5.05</td>
</tr>
<tr>
<td>Government and government enterprises</td>
<td>19.35</td>
<td>19.09</td>
<td>19.08</td>
<td>18.77</td>
<td>18.44</td>
</tr>
<tr>
<td>Federal, civilian</td>
<td>2.72</td>
<td>2.67</td>
<td>2.69</td>
<td>2.67</td>
<td>2.59</td>
</tr>
<tr>
<td>Military</td>
<td>1.64</td>
<td>1.54</td>
<td>1.57</td>
<td>1.58</td>
<td>1.58</td>
</tr>
<tr>
<td>State government</td>
<td>5.42</td>
<td>5.40</td>
<td>5.37</td>
<td>5.23</td>
<td>5.12</td>
</tr>
<tr>
<td>Local government</td>
<td>9.56</td>
<td>9.48</td>
<td>9.45</td>
<td>9.29</td>
<td>9.15</td>
</tr>
<tr>
<td><strong>Total employment</strong></td>
<td>100.00</td>
<td>100.00</td>
<td>100.00</td>
<td>100.00</td>
<td>100.00</td>
</tr>
</tbody>
</table>

*Source: Bureau of Economic Analysis at www.bea.gov, table CAEMP25N and author’s calculations*
### Table 10: United States Percent of Employment by Industry 2014-2018

<table>
<thead>
<tr>
<th>Description</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>By type</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wage and salary employment</td>
<td>77.71</td>
<td>77.57</td>
<td>77.53</td>
<td>77.15</td>
<td>76.90</td>
</tr>
<tr>
<td>Proprietors employment</td>
<td>22.29</td>
<td>22.43</td>
<td>22.47</td>
<td>22.85</td>
<td>23.10</td>
</tr>
<tr>
<td>Farm proprietors employment</td>
<td>0.99</td>
<td>0.96</td>
<td>0.94</td>
<td>0.92</td>
<td>0.89</td>
</tr>
<tr>
<td>Nonfarm proprietors employment</td>
<td>21.30</td>
<td>21.46</td>
<td>21.53</td>
<td>21.93</td>
<td>22.21</td>
</tr>
<tr>
<td><strong>By industry</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Farm employment</td>
<td>1.42</td>
<td>1.39</td>
<td>1.36</td>
<td>1.33</td>
<td>1.30</td>
</tr>
<tr>
<td>Nonfarm employment</td>
<td>98.58</td>
<td>98.61</td>
<td>98.64</td>
<td>98.67</td>
<td>98.70</td>
</tr>
<tr>
<td>Private nonfarm employment</td>
<td>85.66</td>
<td>85.92</td>
<td>86.07</td>
<td>86.26</td>
<td>86.48</td>
</tr>
<tr>
<td>Forestry, fishing, and related activities</td>
<td>0.51</td>
<td>0.48</td>
<td>0.48</td>
<td>0.48</td>
<td>0.48</td>
</tr>
<tr>
<td>Mining</td>
<td>0.86</td>
<td>0.82</td>
<td>0.75</td>
<td>0.67</td>
<td>0.67</td>
</tr>
<tr>
<td>Utilities</td>
<td>0.31</td>
<td>0.31</td>
<td>0.32</td>
<td>0.30</td>
<td>0.29</td>
</tr>
<tr>
<td>Construction</td>
<td>5.14</td>
<td>5.17</td>
<td>5.34</td>
<td>5.36</td>
<td>5.47</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>6.93</td>
<td>6.87</td>
<td>6.79</td>
<td>6.72</td>
<td>6.73</td>
</tr>
<tr>
<td>Wholesale trade</td>
<td>3.61</td>
<td>3.58</td>
<td>3.34</td>
<td>3.30</td>
<td>3.20</td>
</tr>
<tr>
<td>Retail trade</td>
<td>10.05</td>
<td>10.03</td>
<td>9.93</td>
<td>9.83</td>
<td>9.62</td>
</tr>
<tr>
<td>Transportation and warehousing</td>
<td>3.37</td>
<td>3.64</td>
<td>3.84</td>
<td>4.33</td>
<td>4.66</td>
</tr>
<tr>
<td>Information</td>
<td>1.79</td>
<td>1.74</td>
<td>1.75</td>
<td>1.73</td>
<td>1.72</td>
</tr>
<tr>
<td>Finance and insurance</td>
<td>5.17</td>
<td>5.17</td>
<td>5.27</td>
<td>5.21</td>
<td>5.18</td>
</tr>
<tr>
<td>Real estate and rental and leasing</td>
<td>4.51</td>
<td>4.55</td>
<td>4.59</td>
<td>4.68</td>
<td>4.73</td>
</tr>
<tr>
<td>Professional, scientific, and technical services</td>
<td>6.91</td>
<td>7.01</td>
<td>6.98</td>
<td>7.04</td>
<td>7.08</td>
</tr>
<tr>
<td>Management of companies and enterprises</td>
<td>1.27</td>
<td>1.27</td>
<td>1.35</td>
<td>1.31</td>
<td>1.33</td>
</tr>
<tr>
<td>Administrative and waste management services</td>
<td>6.29</td>
<td>6.18</td>
<td>6.22</td>
<td>6.20</td>
<td>6.21</td>
</tr>
<tr>
<td>Educational services</td>
<td>2.42</td>
<td>2.42</td>
<td>2.40</td>
<td>2.39</td>
<td>2.38</td>
</tr>
<tr>
<td>Health care and social assistance</td>
<td>11.17</td>
<td>11.22</td>
<td>11.28</td>
<td>11.29</td>
<td>11.27</td>
</tr>
<tr>
<td>Arts, entertainment, and recreation</td>
<td>2.27</td>
<td>2.22</td>
<td>2.26</td>
<td>2.30</td>
<td>2.33</td>
</tr>
<tr>
<td>Accommodation and food services</td>
<td>7.28</td>
<td>7.34</td>
<td>7.45</td>
<td>7.51</td>
<td>7.51</td>
</tr>
<tr>
<td>Other services, except public administration</td>
<td>5.83</td>
<td>5.87</td>
<td>5.74</td>
<td>5.62</td>
<td>5.61</td>
</tr>
<tr>
<td>Government and government enterprises</td>
<td>12.92</td>
<td>12.69</td>
<td>12.57</td>
<td>12.41</td>
<td>12.23</td>
</tr>
<tr>
<td>Federal, civilian</td>
<td>1.50</td>
<td>1.48</td>
<td>1.47</td>
<td>1.45</td>
<td>1.42</td>
</tr>
<tr>
<td>Military</td>
<td>1.06</td>
<td>1.03</td>
<td>1.00</td>
<td>0.98</td>
<td>0.96</td>
</tr>
<tr>
<td>State and local</td>
<td>10.36</td>
<td>10.18</td>
<td>10.10</td>
<td>9.98</td>
<td>9.85</td>
</tr>
<tr>
<td>State government</td>
<td>2.86</td>
<td>2.81</td>
<td>2.77</td>
<td>2.73</td>
<td>2.69</td>
</tr>
<tr>
<td>Local government</td>
<td>7.49</td>
<td>7.37</td>
<td>7.33</td>
<td>7.24</td>
<td>7.16</td>
</tr>
<tr>
<td><strong>Total employment</strong></td>
<td>100.00</td>
<td>100.00</td>
<td>100.00</td>
<td>100.00</td>
<td>100.00</td>
</tr>
</tbody>
</table>

Source: Bureau of Economic Analysis at www.bea.gov, table CAEMP25N and author’s calculation