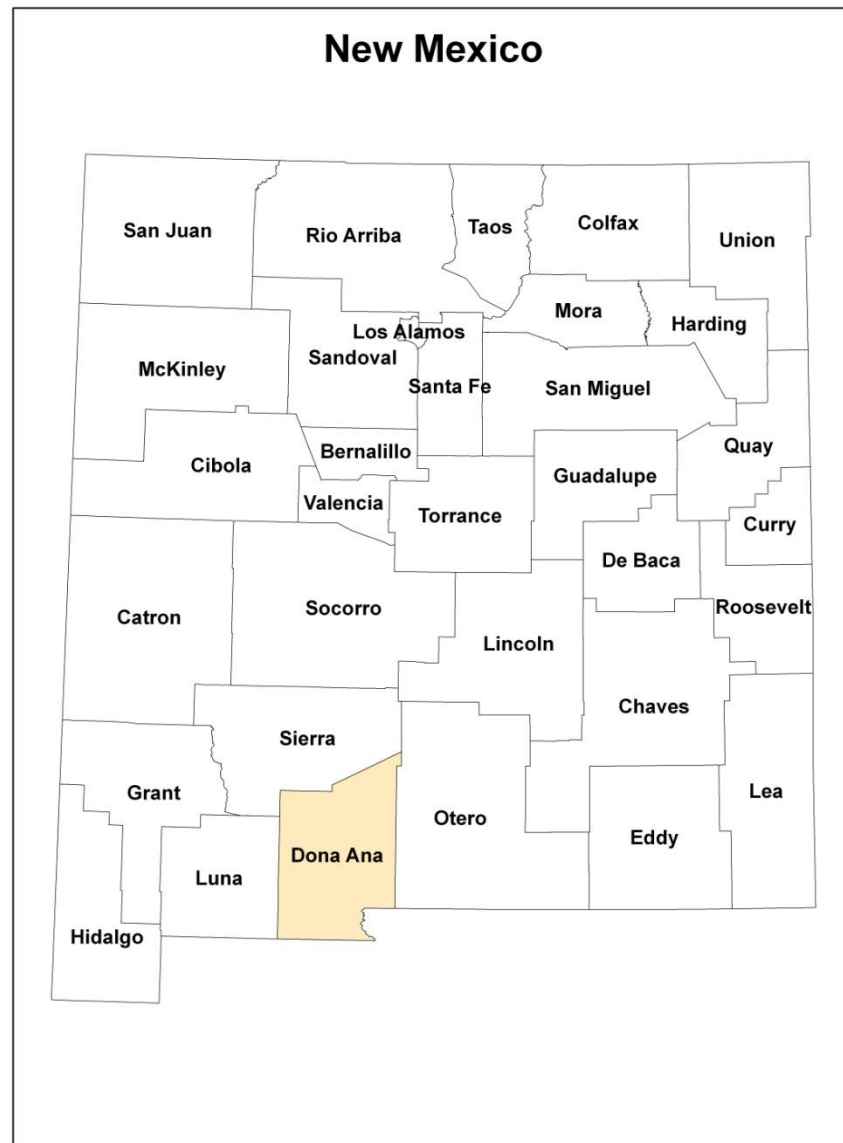


The Economic Base of Doña Ana County, NM

**PREPARED BY: Arrowhead Center,
New Mexico State University**

DATE: July 2020



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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 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. The economic base 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:

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

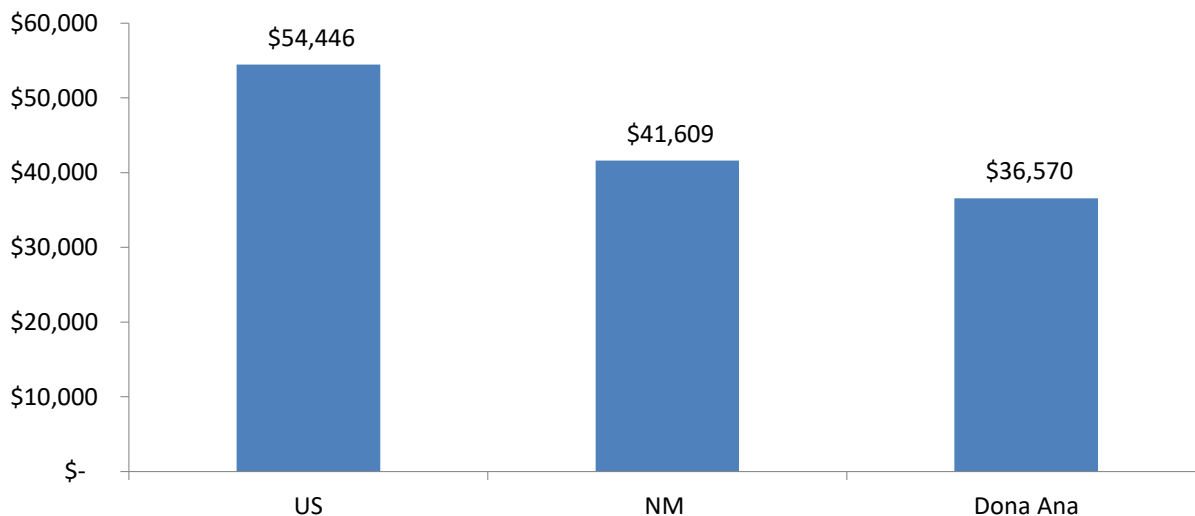
The LQ serves to illustrate the relative importance in the level of the local employment of that sector with respect to the benchmark economy, state or national. An LQ greater than 1.0 indicates that a particular industry employs proportionately more workers locally than it does at the state or national 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>.

In this report, LQs are calculated for industries within Doña Ana 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). For the purposes of this report, basic industries are identified utilizing 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 are available and the four years preceding (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.

Doña Ana County, New Mexico

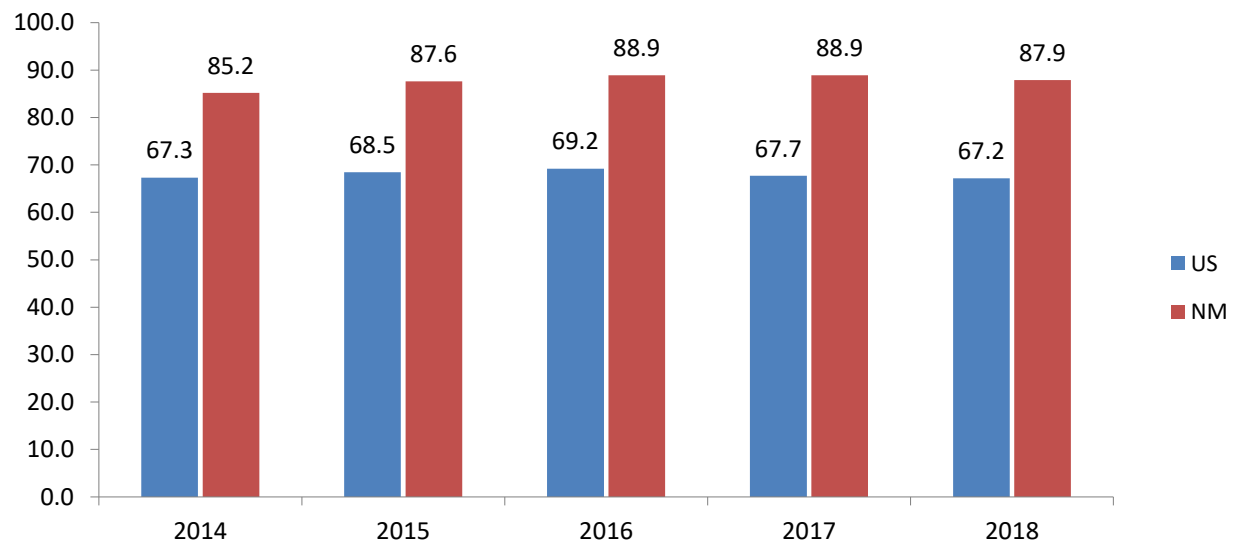
Doña Ana County is located in south central New Mexico and encompasses 3,807.51 square miles, or 3.14 percent of the land area in the state of New Mexico. The population of Doña Ana County in 2018 was 217,522, or 10.38 percent of the state total and the second largest county in New Mexico in terms of population. Only Bernalillo County with a population of 678,701 in 2018 was larger than Doña Ana County in terms of population. The City of Las Cruces, with a population of 102,929 in Doña Ana County contained 47.32 percent of Doña Ana County's population in 2018 (US Census Bureau, 2018). Doña Ana County's population increased from 216,186 in 2014 to 217,522 in 2018 or by 1.61 percent over the past five years. Comparatively, for the same period, 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: Dona Ana (2018)



Per capita personal income in Doña Ana County in 2018 was \$36,570. Per capita personal income for Doña Ana County in 2018 (\$36,570) was 87.89 percent of the state of New Mexico average (\$41,609), and 67.17 percent of the national average (\$54,446) (See Figure 1 and 2). The growth rate of per capita income in Doña Ana County between 2014 and 2018 of 15.41 percent was higher than the growth in per capita income for New Mexico (11.91 percent) and lower than growth of per capita income in the United States (15.70 percent) during the same period.

Figure 2. Per Capita Income of Dona Ana as a Percent of U.S. and New Mexico (2014-2018)



The total number of jobs in Doña Ana County in 2018 was 102,594. Between 2014 and 2018, total employment in Doña Ana County increased by 3.27 percent, compared to the state, which saw an increase in employment of 2.93 percent and the nation which increased by 7.79 percent. The Doña Ana County employment to population ratio in 2018 was 0.47, while the state ratio was 0.53 and the national ratio was 0.61.

For year 2018, 76.87 percent of all workers in Doña Ana County were employed in the private sector. Government and government enterprises accounted for 19.88 percent and Farm employment accounted for 3.25 percent of the total employment. The private sector industries with the highest percentage of total employment included: Healthcare and Social Assistance (16.16 percent), Retail Trade (9.02), Accommodation and Food Services (7.96), and Administrative and Waste Management Services (6.37). State and local government were the largest employers in the public sector with 7.63 percent employed in state government and 8.44 percent of total employment in local government. Federal/civilian and Military employment accounted for 3.27 percent and 0.54 percent of the total, respectively. Doña Ana County employment by sector for 2018 is displayed in Table 1.

Basic and Non-Basic Sectors in Doña Ana County, New Mexico

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

The importance of government employment to the economic base of Doña Ana County is shown in Table 2. The entry labeled Government and Government Enterprises is the aggregate figure of all government levels listed as government categories. With the exception of Military, government sectors have LQs greater than one. Federal/civilian employment, with an LQ of 2.30, is classified as a basic industry for Doña Ana County. The large LQ for State government employment (2.84) in Doña Ana County reflects a high level of employment at NMSU, with the main campus located in Las Cruces, NM. As a large comprehensive research university, NMSU exports both educational services and research. For this reason, State government employment is classified as a basic industry in Doña Ana County. 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 Doña Ana County will be considered a non-basic industry even though it had an LQ of 1.18 in 2018.

The Agricultural sector is defined here to include: Farm employment and employment in Forestry, Fisheries and Related Activities. These components of Agriculture qualify as basic industries for Doña Ana County. In 2018, Farm employment had an LQ of 2.51. This sector has had LQs greater than 2.31 in all years considered. The Forestry, Fisheries and Related Activities sector had an LQ of 2.91 in 2018 and its LQs were greater than 2.91 in all years considered.

Healthcare and Social Assistance had an LQ of 1.43 in 2018, with all five previous years above 1.36. The large LQ for Healthcare and Social Assistance in Doña Ana County reflects the employment base of Doña Ana's three medical centers: Memorial Medical Center, Inc., Mesilla Valley Hospital, and Mountain View Regional Medical Center, including the UNM Cancer Center clinic that opened in January 2007, all located in Las Cruces. Typically, the Healthcare and

Social Assistance sector is categorized as a non-basic industry. However, given the unique serving population for these hospitals and their importance in serving several neighboring counties, this sector has been included as part of the economic base for the county. Furthermore, Construction had an LQ of 1.05 and Accommodation and Food Services had an LQ of 1.06 in 2018. In this report, Health care and Social Assistance, Construction and Accommodation and Food Services are considered basic industries for Doña Ana County.

The Utilities sector for Dona Ana County had an LQ 1.40 in 2018 and the Administrative and Waste Management Services had an LQ of 1.03. In this report, Utilities and Administrative and Waste Management Services are not counted as basic industries given that they do not bring outside resources into the county.

In brief, the data and analysis suggest that for 2018 the following industries should be considered basic industries in Doña Ana County:

1. The Agricultural sector, which includes Farm employment (3,338) and Forestry, Fishing and Related Activities (1,443), accounted for 4,781 jobs.
2. Federal/civilian and State government employment, including 3,354 Federal/civilian jobs and 7,830 state government jobs, accounted for a total of 11,184 jobs.
3. Healthcare and Social Assistance, accounted for 16,579 jobs.
4. Construction, accounted for 5,886 jobs.
5. Accommodation and Food Services, accounted for 8,171 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 Doña Ana County by total employment in the basic sectors. In the case of Doña Ana County, the multiplier for 2018 is equal to 2.20 (102,594/46,601). This ratio suggests that the addition of one basic sector job in Doña Ana County would be associated with an additional 2.20 non-basic sector jobs. The export base multiplier (2.20) calculated above reinforces the importance of basic (exporting) industries to the economy of Doña Ana 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 Doña Ana 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.

Summary of changes from prior year

This document has been revised to reflect data figures obtained from the BEA for economic data and the U.S. Census Bureau for population data. The following are significant changes for Doña Ana County from the prior year.

Between 2017 and 2018, the population of Doña Ana County increased by 1,336 residents or by 0.62 percent. Per capita personal income in Doña Ana County in 2018 was \$36,570, a 4.06 percent increase from \$35,144 in 2017. Total employment in Doña Ana County increased by 2,446 jobs, a 2.44 percent increase from 2017 to 2018.

Tables 1 to 10 appear on pages 8-17

Table 1: Dona Ana Employment by Industry 2014-2018					
Number of jobs by industry	2014	2015	2016	2017	2018
By type					
Wage and salary employment	77084	77457	78782	77750	79615
Proprietors employment	22266	22424	21839	22398	22979
Farm proprietors employment	1909	1900	1896	1889	1865
Nonfarm proprietors employment 2/	20357	20524	19943	20509	21114
By industry					
Farm employment	3255	3377	3550	3378	3338
Nonfarm employment	96095	96504	97071	96770	99256
Private nonfarm employment	74907	75520	76121	76378	78860
Forestry, fishing, and related activities	1515	1526	1562	1558	1443
Mining	278	292	306	254	N/A
Utilities	410	434	444	430	421
Construction	5944	5980	6052	5911	5886
Manufacturing	2957	2772	2830	2825	2869
Wholesale trade	1739	1823	1602	1555	N/A
Retail trade	9614	9593	9420	9308	9257
Transportation and warehousing	2529	2717	2765	3146	3385
Information	1147	1098	973	910	997
Finance and insurance	2960	2987	3116	3067	3059
Real estate and rental and leasing	3600	3753	3806	3934	4048
Professional, scientific, and technical services	5694	5941	5843	5710	5701
Management of companies and enterprises	90	85	105	81	84
Administrative and waste management services	5504	4856	4836	4840	6539
Educational services	1192	1303	1331	1548	1579
Health care and social assistance	15058	15643	16190	16329	16579
Arts, entertainment, and recreation	2000	1969	1931	1990	2064
Accommodation and food services	7655	7784	8116	8135	8171
Other services, except public administration	5021	4964	4893	4847	4994
Government and government enterprises	21188	20984	20950	20392	20396
Federal, civilian	3632	3506	3466	3399	3354
Military	582	552	554	559	554
State and local	16974	16926	16930	16434	16488
State government	8231	8201	8321	7928	7830
Local government	8743	8725	8609	8506	8658
Total employment	99,350	99,881	100,621	100,148	102,594

Source: Bureau of Economic Analysis at www.bea.gov, table CAEMP25N

Table 2: Location Quotients for Dona Ana (US Base) 2014-2018					
US Base	2014	2015	2016	2017	2018
By type					
Wage and salary employment	1.00	1.00	1.01	1.01	1.01
Proprietors employment	1.01	1.00	0.97	0.98	0.97
Farm proprietors employment	1.94	1.98	2.00	2.06	2.04
Nonfarm proprietors employment	0.96	0.96	0.92	0.93	0.93
By industry					
Farm employment	2.31	2.43	2.59	2.53	2.51
Nonfarm employment	0.98	0.98	0.98	0.98	0.98
Private nonfarm employment	0.88	0.88	0.88	0.88	0.89
Forestry, fishing, and related activities	3.02	3.17	3.21	3.26	2.91
Mining	0.33	0.36	0.40	0.38	N/A
Utilities	1.32	1.38	1.37	1.43	1.40
Construction	1.16	1.16	1.13	1.10	1.05
Manufacturing	0.43	0.40	0.41	0.42	0.42
Wholesale trade	0.49	0.51	0.48	0.47	N/A
Retail trade	0.96	0.96	0.94	0.95	0.94
Transportation and warehousing	0.75	0.75	0.72	0.73	0.71
Information	0.65	0.63	0.55	0.53	0.56
Finance and insurance	0.58	0.58	0.59	0.59	0.58
Real estate and rental and leasing	0.80	0.82	0.82	0.84	0.83
Professional, scientific, and technical services	0.83	0.85	0.83	0.81	0.79
Management of companies and enterprises	0.07	0.07	0.08	0.06	0.06
Administrative and waste management services	0.88	0.79	0.77	0.78	1.03
Educational services	0.50	0.54	0.55	0.65	0.65
Health care and social assistance	1.36	1.40	1.43	1.44	1.43
Arts, entertainment, and recreation	0.89	0.89	0.85	0.87	0.86
Accommodation and food services	1.06	1.06	1.08	1.08	1.06
Other services, except public administration	0.87	0.85	0.85	0.86	0.87
Government and government enterprises	1.65	1.66	1.66	1.64	1.63
Federal, civilian	2.44	2.38	2.34	2.34	2.30
Military	0.55	0.54	0.55	0.57	0.56
State and local	1.65	1.66	1.67	1.64	1.63
State government	2.89	2.92	2.99	2.89	2.84
Local government	1.17	1.18	1.17	1.17	1.18
Total employment	1.00	1.00	1.00	1.00	1.00

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

Table 3: Location Quotients for Dona Ana (NM Base) 2014-2018					
NM Based	2014	2015	2016	2017	2018
By type					
Wage and salary employment	0.99	0.98	0.99	0.99	0.99
Proprietors employment	1.05	1.06	1.02	1.05	1.04
Farm proprietors employment	0.97	0.96	0.96	0.96	0.95
Nonfarm proprietors employment	1.06	1.07	1.03	1.05	1.05
By industry					
Farm employment	1.25	1.27	1.29	1.28	1.27
Nonfarm employment	0.99	0.99	0.99	0.99	0.99
Private nonfarm employment	0.97	0.97	0.97	0.97	0.97
Forestry, fishing, and related activities	2.91	3.01	2.91	2.85	2.55
Mining	0.08	0.09	0.10	0.09	N/A
Utilities	0.97	1.01	0.98	1.02	1.00
Construction	1.09	1.09	1.10	1.04	0.99
Manufacturing	0.95	0.89	0.93	0.95	0.93
Wholesale trade	0.66	0.70	0.69	0.68	N/A
Retail trade	0.92	0.91	0.90	0.92	0.90
Transportation and warehousing	1.06	1.09	1.13	1.15	1.12
Information	0.80	0.77	0.66	0.64	0.71
Finance and insurance	0.93	0.95	0.95	0.94	0.92
Real estate and rental and leasing	1.00	1.03	1.04	1.06	1.05
Professional, scientific, and technical services	0.82	0.84	0.82	0.78	0.76
Management of companies and enterprises	0.17	0.16	0.18	0.14	0.14
Administrative and waste management services	1.10	1.00	0.97	0.94	1.24
Educational services	0.78	0.84	0.85	1.00	1.01
Health care and social assistance	1.32	1.32	1.31	1.33	1.33
Arts, entertainment, and recreation	0.90	0.89	0.87	0.87	0.86
Accommodation and food services	0.95	0.94	0.95	0.95	0.93
Other services, except public administration	0.99	0.97	0.96	0.97	0.96
Government and government enterprises	1.10	1.10	1.09	1.08	1.08
Federal, civilian	1.35	1.31	1.28	1.27	1.26
Military	0.36	0.36	0.35	0.35	0.34
State and local	1.14	1.14	1.13	1.13	1.13
State government	1.53	1.52	1.54	1.51	1.49
Local government	0.92	0.92	0.91	0.91	0.92
Total employment	1.00	1.00	1.00	1.00	1.00

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

Table 4: Dona Ana, Total Employment by Industry 2018		
	Total Jobs	Percent of Total Employment
By type		
Wage and salary employment	79,615	77.60
Proprietors employment	22,979	22.40
Farm proprietors employment	1,865	1.82
Nonfarm proprietors employment	21,114	20.58
By industry		
Farm employment	3,338	3.25
Nonfarm employment	99,256	96.75
Private nonfarm employment	78,860	76.87
Forestry, fishing, and related activities	1,443	1.41
Mining	N/A	N/A
Utilities	421	0.41
Construction	5,886	5.74
Manufacturing	2,869	2.80
Wholesale trade	N/A	N/A
Retail trade	9,257	9.02
Transportation and warehousing	3,385	3.30
Information	997	0.97
Finance and insurance	3,059	2.98
Real estate and rental and leasing	4,048	3.95
Professional, scientific, and technical services	5,701	5.56
Management of companies and enterprises	84	0.08
Administrative and waste management services	6,539	6.37
Educational services	1,579	1.54
Health care and social assistance	16,579	16.16
Arts, entertainment, and recreation	2,064	2.01
Accommodation and food services	8,171	7.96
Other services, except public administration	4,994	4.87
Government and government enterprises	20,396	19.88
Federal, civilian	3,354	3.27
Military	554	0.54
State and local	16,488	16.07
State government	7,830	7.63
Local government	8,658	8.44
Total employment	102,594	100.00

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

Table 5: New Mexico Employment by Industry 2014-2018					
Number of jobs by industry	2014	2015	2016	2017	2018
By type					
Wage and salary employment	852,638	859,962	861,216	862,809	875,574
Proprietors employment	231,134	232,022	231,421	234,860	240,000
Farm proprietors employment	21,557	21,579	21,534	21,511	21,243
Nonfarm proprietors employment 2/	209,577	210,443	209,887	213,349	218,757
By industry					
Farm employment	28,346	29,040	29,884	29,031	28,687
Nonfarm employment	1,055,426	1,062,944	1,062,753	1,068,638	1,086,887
Private nonfarm employment	845,767	854,456	854,248	862,552	881,228
Forestry, fishing, and related activities	5,674	5,541	5,820	5,989	6,157
Mining	38,214	36,656	31,809	31,204	34,490
Utilities	4,591	4,684	4,900	4,623	4,576
Construction	59,584	59,707	60,008	62,061	64,328
Manufacturing	34,027	34,157	33,187	32,562	33,596
Wholesale trade	28,854	28,501	25,380	24,989	24,563
Retail trade	113,924	114,887	113,636	111,466	111,663
Transportation and warehousing	25,905	27,245	26,673	30,016	32,916
Information	15,725	15,587	16,001	15,491	15,297
Finance and insurance	34,781	34,461	35,685	35,674	36,018
Real estate and rental and leasing	39,111	39,659	39,865	40,497	41,842
Professional, scientific, and technical services	76,116	77,543	77,750	79,918	81,618
Management of companies and enterprises	5,632	5,875	6,336	6,143	6,488
Administrative and waste management services	54,370	52,996	53,892	56,396	57,515
Educational services	16,709	16,959	17,013	17,048	17,004
Health care and social assistance	124,796	129,722	134,264	134,791	135,667
Arts, entertainment, and recreation	24,227	24,245	24,150	25,154	26,008
Accommodation and food services	88,297	90,194	92,523	93,512	95,173
Other services, except public administration	55,230	55,837	55,356	55,018	56,309
Government and government enterprises	209,659	208,488	208,505	206,086	205,659
Federal, civilian	29,451	29,188	29,385	29,281	28,881
Military	17,809	16,837	17,132	17,346	17,588
State and local	162,399	162,463	161,988	159,459	159,190
State government	58,771	58,969	58,707	57,448	57,079
Local government	103,628	103,494	103,281	102,011	102,111
Total employment	1,083,772	1,091,984	1,092,637	1,097,669	1,115,574
Source: Bureau of Economic Analysis at www.bea.gov , table CAEMP25N					

Table 6: United States Employment by Industry 2014-2018					
Number of jobs by industry	2014	2015	2016	2017	2018
By type					
Wage and salary employment	144,722,000	147,636,000	149,912,000	151,860,000	154,375,000
Proprietors employment	41,511,800	42,679,800	43,459,900	44,965,300	46,371,000
Farm proprietors employment	1,840,000	1,829,000	1,818,000	1,802,000	1,790,000
Nonfarm proprietors employment	39,671,800	40,850,800	41,641,900	43,163,300	44,581,000
By industry					
Farm employment	2,643,000	2,646,000	2,638,000	2,621,000	2,604,000
Nonfarm employment	183,590,800	187,669,800	190,733,900	194,204,300	198,142,000
Private nonfarm employment	159,535,800	163,523,800	166,428,900	169,778,300	173,599,000
Forestry, fishing, and related activities	941,000	915,900	935,200	938,300	969,400
Mining	1,597,500	1,553,300	1,452,200	1,320,900	1,353,700
Utilities	580,600	597,400	622,000	590,800	589,700
Construction	9,564,300	9,844,900	10,322,100	10,557,000	10,973,300
Manufacturing	12,907,600	13,076,600	13,131,900	13,235,200	13,501,300
Wholesale trade	6,719,600	6,817,100	6,463,400	6,492,900	6,422,200
Retail trade	18,713,100	19,092,300	19,195,500	19,345,100	19,307,500
Transportation and warehousing	6,282,400	6,932,700	7,418,200	8,520,900	9,364,300
Information	3,327,000	3,316,400	3,384,900	3,404,500	3,460,100
Finance and insurance	9,621,000	9,845,600	10,188,400	10,250,300	10,394,600
Real estate and rental and leasing	8,405,800	8,668,300	8,868,200	9,203,700	9,504,800
Professional, scientific, and technical services	12,864,700	13,333,200	13,496,900	13,848,200	14,203,900
Management of companies and enterprises	2,361,300	2,425,500	2,603,800	2,568,700	2,669,500
Administrative and waste management services	11,719,200	11,770,600	12,034,600	12,212,600	12,472,900
Educational services	4,498,100	4,610,900	4,641,800	4,702,400	4,771,700
Health care and social assistance	20,798,400	21,351,100	21,816,100	22,214,300	22,619,800
Arts, entertainment, and recreation	4,223,300	4,220,100	4,363,100	4,518,600	4,684,900
Accommodation and food services	13,548,900	13,977,700	14,399,000	14,788,400	15,077,500
Other services, except public administration	10,862,000	11,174,200	11,091,600	11,065,500	11,257,900
Government and government enterprises	24,055,000	24,146,000	24,305,000	24,426,000	24,543,000
Federal, civilian	2,792,000	2,810,000	2,847,000	2,857,000	2,849,000
Military	1,975,000	1,957,000	1,928,000	1,929,000	1,922,000
State and local	19,288,000	19,379,000	19,530,000	19,640,000	19,772,000
State government	5,330,000	5,349,000	5,356,000	5,383,000	5,395,000
Local government	13,958,000	14,030,000	14,174,000	14,257,000	14,377,000
Total employment	186,233,800	190,315,800	193,371,900	196,825,300	200,746,000

Source: Bureau of Economic Analysis at www.bea.gov, table CAEMP25N

Table 7: Dona Ana, New Mexico and United States Percent of Employment by Industry 2018			
	United States	New Mexico	Dona Ana
By type			
Wage and salary employment	76.90	78.49	77.60
Proprietors employment	23.10	21.51	22.40
Farm proprietors employment	0.89	1.90	1.82
Nonfarm proprietors employment	22.21	19.61	20.58
By industry			
Farm employment	1.30	2.57	3.25
Nonfarm employment	98.70	97.43	96.75
Private nonfarm employment	86.48	78.99	76.87
Forestry, fishing, and related activities	0.48	0.55	1.41
Mining	0.67	3.09	N/A
Utilities	0.29	0.41	0.41
Construction	5.47	5.77	5.74
Manufacturing	6.73	3.01	2.80
Wholesale trade	3.20	2.20	N/A
Retail trade	9.62	10.01	9.02
Transportation and warehousing	4.66	2.95	3.30
Information	1.72	1.37	0.97
Finance and insurance	5.18	3.23	2.98
Real estate and rental and leasing	4.73	3.75	3.95
Professional, scientific, and technical services	7.08	7.32	5.56
Management of companies and enterprises	1.33	0.58	0.08
Administrative and waste management services	6.21	5.16	6.37
Educational services	2.38	1.52	1.54
Health care and social assistance	11.27	12.16	16.16
Arts, entertainment, and recreation	2.33	2.33	2.01
Accommodation and food services	7.51	8.53	7.96
Other services, except public administration	5.61	5.05	4.87
Government and government enterprises	12.23	18.44	19.88
Federal, civilian	1.42	2.59	3.27
Military	0.96	1.58	0.54
State and local	9.85	14.27	16.07
State government	2.69	5.12	7.63
Local government	7.16	9.15	8.44
Total employment	100.00	100.00	100.00

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

Table 8: Dona Ana Percent of Employment by Sectors 2014-2018					
Description	2014	2015	2016	2017	2018
By type					
Wage and salary employment	77.59	77.55	78.30	77.64	77.60
Proprietors employment	22.41	22.45	21.70	22.36	22.40
Farm proprietors employment	1.92	1.90	1.88	1.89	1.82
Nonfarm proprietors employment	20.49	20.55	19.82	20.48	20.58
By industry					
Farm employment	3.28	3.38	3.53	3.37	3.25
Nonfarm employment	96.72	96.62	96.47	96.63	96.75
Private nonfarm employment	75.40	75.61	75.65	76.27	76.87
Forestry, fishing, and related activities	1.52	1.53	1.55	1.56	1.41
Mining	0.28	0.29	0.30	0.25	N/A
Utilities	0.41	0.43	0.44	0.43	0.41
Construction	5.98	5.99	6.01	5.90	5.74
Manufacturing	2.98	2.78	2.81	2.82	2.80
Wholesale trade	1.75	1.83	1.59	1.55	N/A
Retail trade	9.68	9.60	9.36	9.29	9.02
Transportation and warehousing	2.55	2.72	2.75	3.14	3.30
Information	1.15	1.10	0.97	0.91	0.97
Finance and insurance	2.98	2.99	3.10	3.06	2.98
Real estate and rental and leasing	3.62	3.76	3.78	3.93	3.95
Professional, scientific, and technical services	5.73	5.95	5.81	5.70	5.56
Management of companies and enterprises	0.09	0.09	0.10	0.08	0.08
Administrative and waste management services	5.54	4.86	4.81	4.83	6.37
Educational services	1.20	1.30	1.32	1.55	1.54
Health care and social assistance	15.16	15.66	16.09	16.30	16.16
Arts, entertainment, and recreation	2.01	1.97	1.92	1.99	2.01
Accommodation and food services	7.71	7.79	8.07	8.12	7.96
Other services, except public administration	5.05	4.97	4.86	4.84	4.87
Government and government enterprises	21.33	21.01	20.82	20.36	19.88
Federal, civilian	3.66	3.51	3.44	3.39	3.27
Military	0.59	0.55	0.55	0.56	0.54
State and local	17.09	16.95	16.83	16.41	16.07
State government	8.28	8.21	8.27	7.92	7.63
Local government	8.80	8.74	8.56	8.49	8.44
Total employment	100.00	100.00	100.00	100.00	100.00

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

Table 9: New Mexico Percent of Employment by Industry 2014-2018

Description	2014	2015	2016	2017	2018
By type					
Wage and salary employment	78.67	78.75	78.82	78.60	78.49
Proprietors employment	21.33	21.25	21.18	21.40	21.51
Farm proprietors employment	1.99	1.98	1.97	1.96	1.90
Nonfarm proprietors employment	19.34	19.27	19.21	19.44	19.61
By industry					
Farm employment	2.62	2.66	2.74	2.64	2.57
Nonfarm employment	97.38	97.34	97.26	97.36	97.43
Private nonfarm employment	78.04	78.25	78.18	78.58	78.99
Forestry, fishing, and related activities	0.52	0.51	0.53	0.55	0.55
Mining	3.53	3.36	2.91	2.84	3.09
Utilities	0.42	0.43	0.45	0.42	0.41
Construction	5.50	5.47	5.49	5.65	5.77
Manufacturing	3.14	3.13	3.04	2.97	3.01
Wholesale trade	2.66	2.61	2.32	2.28	2.20
Retail trade	10.51	10.52	10.40	10.15	10.01
Transportation and warehousing	2.39	2.49	2.44	2.73	2.95
Information	1.45	1.43	1.46	1.41	1.37
Finance and insurance	3.21	3.16	3.27	3.25	3.23
Real estate and rental and leasing	3.61	3.63	3.65	3.69	3.75
Professional, scientific, and technical services	7.02	7.10	7.12	7.28	7.32
Management of companies and enterprises	0.52	0.54	0.58	0.56	0.58
Administrative and waste management services	5.02	4.85	4.93	5.14	5.16
Educational services	1.54	1.55	1.56	1.55	1.52
Health care and social assistance	11.51	11.88	12.29	12.28	12.16
Arts, entertainment, and recreation	2.24	2.22	2.21	2.29	2.33
Accommodation and food services	8.15	8.26	8.47	8.52	8.53
Other services, except public administration	5.10	5.11	5.07	5.01	5.05
Government and government enterprises	19.35	19.09	19.08	18.77	18.44
Federal, civilian	2.72	2.67	2.69	2.67	2.59
Military	1.64	1.54	1.57	1.58	1.58
State and local	14.98	14.88	14.83	14.53	14.27
State government	5.42	5.40	5.37	5.23	5.12
Local government	9.56	9.48	9.45	9.29	9.15
Total employment	100.00	100.00	100.00	100.00	100.00

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

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

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