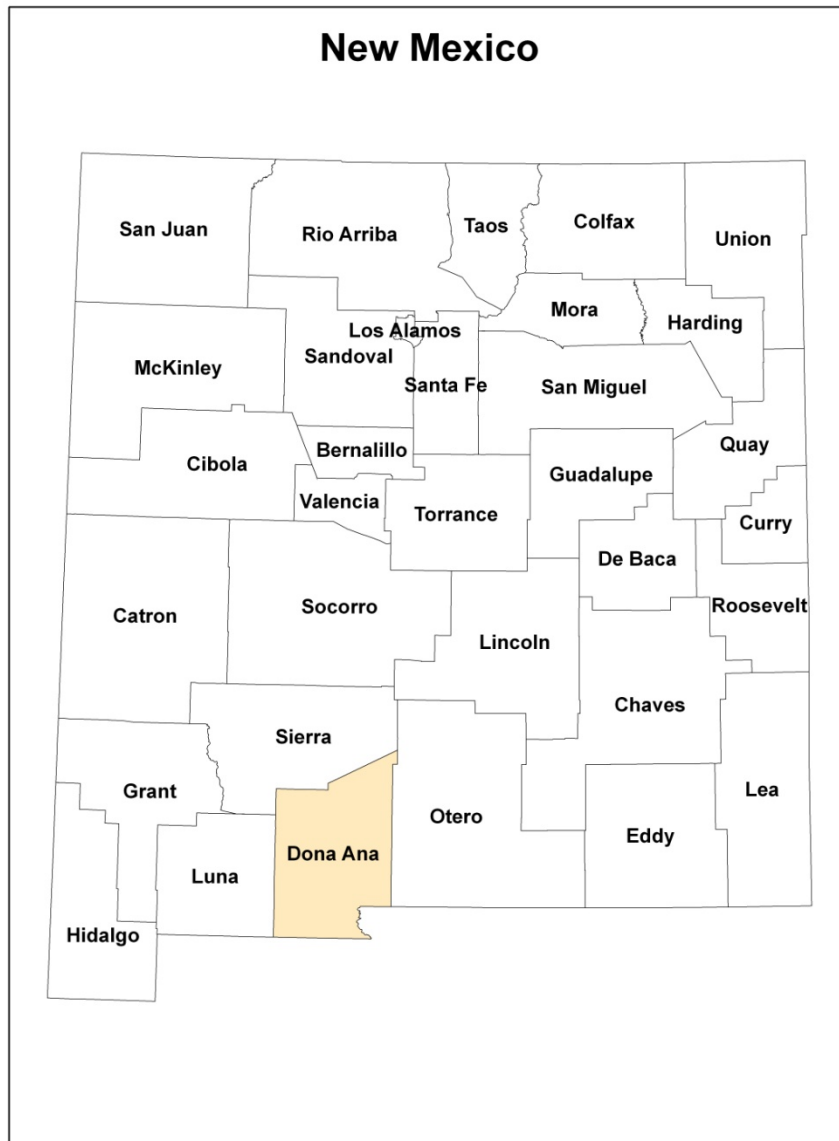




The Economic Base of Doña Ana County, NM

**PREPARED BY: The Office of Policy Analysis at Arrowhead Center,
New Mexico State University**

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Introduction

This report is one of 35 economic base studies prepared by the 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 and Theophilus Djaba, graduate students 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. A 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>.

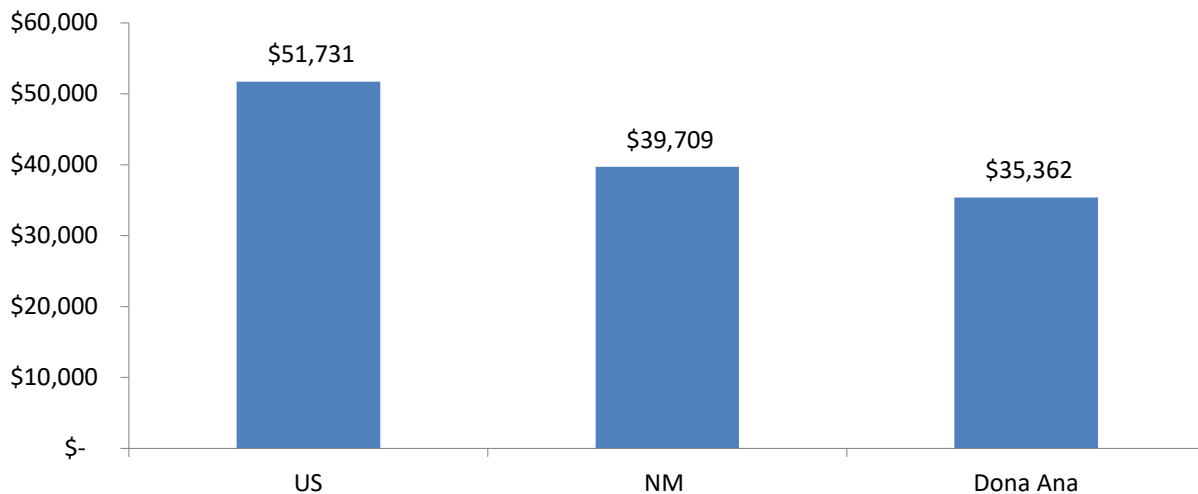
In this report, LQs are calculated for industries within Doña Ana County with national employment as the basis for comparison (see Table 1). Additionally, LQs using employment for the state of New Mexico as the benchmark are included (see Table 2). For the purposes of this report, basic industries are 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 (2013-2017). 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 2017 was 215,579, or 10.30 percent of the state total and the second

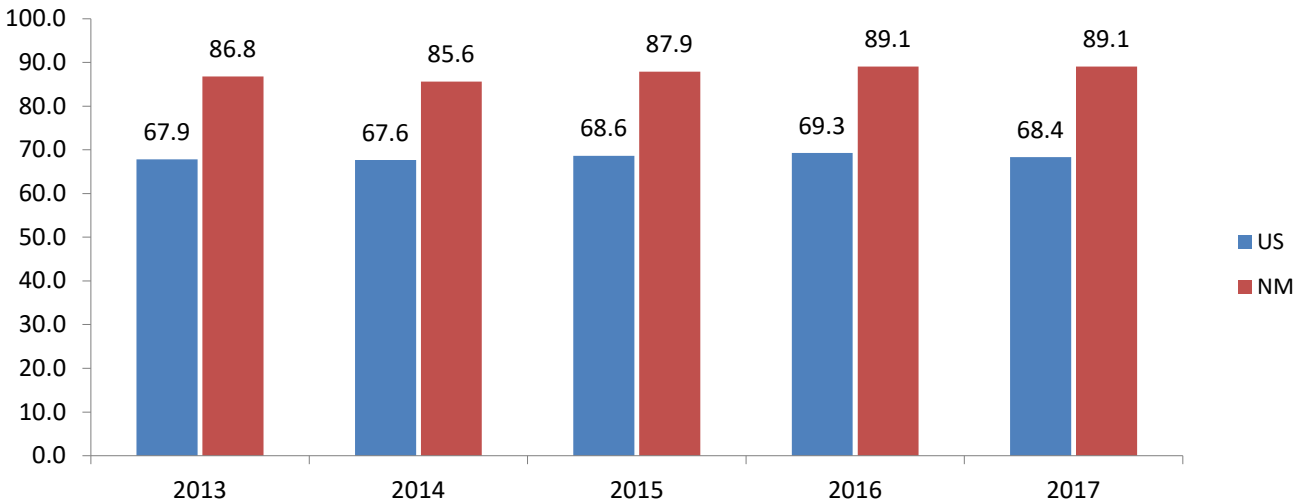
largest county in New Mexico in terms of population. Only Bernalillo County with a population of 676,773 in 2017 was larger than Doña Ana County in terms of population. The City of Las Cruces, with a population of 101,712 in Doña Ana County contained 47.18 percent of Doña Ana County's population in 2017 (US Census Bureau, 2018). Doña Ana County's population increased from 213,425 in 2013 to 215,579 in 2017 or by 1.01 percent over the past five years. Comparatively, for the same period, New Mexico's population increased by 0.03 percent and the United States' population increased by 2.88 percent.

Figure 1. Per Capita Personal Income: Dona Ana (2017)



Per capita personal income in Doña Ana County in 2017 was \$35,362. In terms of per capita income, Doña Ana County ranked 19th in the state. Per capita personal income for Doña Ana County in 2017 (\$35,362) was 89.05 percent of the state of New Mexico average (\$39,709), and 68.36 percent of the national average (\$51,731) (See Figure 1 and 2). The growth rate of per capita income in Doña Ana County between 2013 and 2017 of 16.19 percent was higher than the growth in per capita income for New Mexico (13.21 percent) and the United States (15.34 percent) during the same period.

Figure 2: Per Capita Income of Dona Ana as a Percent of U.S. and New Mexico 2013-2017



The total number of jobs in Doña Ana County in 2017 was 99,901. Between 2013 and 2017, total employment in Doña Ana County increased by 0.96 percent, compared to the state, which saw an increase in employment of 2.08 percent and the nation which increased by 7.57 percent. The Doña Ana County employment to population ratio in 2017 was 0.46, while the state ratio was 0.52 and the national ratio was 0.60.

For year 2017, 76.22 percent of all workers in Doña Ana County were employed in the private sector. Government and government enterprises accounted for 20.46 percent and Farm employment accounted for 3.32 percent of the total employment. The private sector industries with the highest percentage of total employment included: Health care and Social assistance (16.38 percent), Retail trade (9.40), Accommodation and Food services (8.15), and Construction (6.01). State and local government were the largest employers in the public sector with 7.98 percent employed in state government and 8.52 percent of total employment in local government. Federal/civilian and Military employment accounted for 3.40 percent and 0.56 percent of the total, respectively. Doña Ana County employment by sector for 2017 is displayed in Table 3.

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

Table 1 contains LQs for Doña Ana County from 2013 to 2017 calculated using data for the United States as the basis of comparison; Table 2 contains LQs for Doña Ana County from 2013 to 2017 calculated with respect to the state of New Mexico. For the purposes of this report, a 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 1. 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 a LQ of 2.34, is classified as a basic industry for Doña Ana County. The large LQ for State government employment (2.92) 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 a LQ of 1.17 in 2017.

The Agricultural sector is defined here to include: Farm employment and employment in Forestry, fisheries and related activities sectors. These components of Agriculture qualify as basic industries for Doña Ana County. In 2017, Farm employment had a LQ of 2.48. While this sector has had LQs greater than 2.30 in all years considered. The Forestry, fisheries and related activities sector had a LQ of 3.20 in 2017 and its LQs were greater than 2.48 in all years considered.

Health care and Social assistance had an LQ of 1.45 in 2017, with all five previous years above 1.32. The large LQ for Health care 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 Health care 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 1.11 and Accommodation and Food services had an LQ of 1.09 in 2017. 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 a LQ 1.34 in 2017; in this report it is not counted as a non-basic industry given that it does not bring outside resources into the county.

In brief, the data and analysis suggest that for 2017 the following industries should be considered basic industries in Doña Ana County:

1. The Agricultural sector, which includes Farm employment (3,318) and Forest, fishing and related activities (1,512), accounted for 4,830 jobs.
2. Federal/civilian and state government employment, including 3,401 federal/civilian jobs and 7,969 state government jobs, accounted for a total of 11,370 jobs.
3. Health care and social assistance accounted for 16,366 jobs.
4. Construction accounted for 6,008 jobs.
5. Accommodation and food services accounted for 8,146 jobs.

It is common in economic base studies to calculate an export-base employment multiplier. This employment multiplier is obtained by dividing total employment by total employment in the basic sectors. In the case of Doña Ana County, the multiplier for 2017 is equal to 2.14 (99,901/46,720). This ratio suggests that the addition of one basic sector job in Doña Ana County would be associated with an additional 2.14 non-basic sector jobs. The export base multiplier (2.14) 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 2016 and 2017, the population of Doña Ana County increased by 1,705 residents or by 0.80 percent. Per capita personal income in Doña Ana County in 2017 was \$35,362, a 2.34 percent increase from \$34,553 in 2016. Total employment in Doña Ana County decreased by 697 jobs, a 0.69 percent decrease from 2016.

Tables 1 to 10 appear on pages 8-17

Table 1: Location Quotients for Dona Ana County (US Base) 2013-2017					
US Base	2013	2014	2015	2016	2017
By type					
Wage and salary employment	0.99	1.00	1.00	1.01	1.01
Proprietors employment	1.02	1.01	1.00	0.96	0.98
Farm proprietors employment	1.89	1.94	1.96	1.98	2.04
Nonfarm proprietors employment	0.98	0.96	0.96	0.92	0.94
By industry					
Farm employment	2.39	2.30	2.42	2.57	2.48
Nonfarm employment	0.98	0.98	0.98	0.98	0.98
Private nonfarm employment	0.88	0.88	0.88	0.88	0.88
Forestry, fishing, and related activities	2.48	3.02	3.17	3.21	3.20
Mining	0.40	0.33	0.36	0.41	0.43
Utilities	1.31	1.32	1.38	1.37	1.34
Construction	1.19	1.17	1.16	1.13	1.11
Manufacturing	0.46	0.43	0.40	0.41	0.42
Wholesale trade	0.48	0.48	0.51	0.48	0.47
Retail trade	0.96	0.96	0.96	0.94	0.96
Transportation and warehousing	0.79	0.75	0.75	0.72	0.74
Information	0.65	0.65	0.63	0.55	0.53
Finance and insurance	0.56	0.58	0.58	0.59	0.59
Real estate and rental and leasing	0.80	0.80	0.83	0.82	0.84
Professional, scientific, and technical services	0.87	0.83	0.85	0.83	0.81
Management of companies and enterprises	0.06	0.07	0.07	0.08	0.08
Administrative and waste management services	0.85	0.88	0.79	0.77	0.76
Educational services	0.51	0.50	0.54	0.55	0.61
Health care and social assistance	1.32	1.36	1.40	1.43	1.45
Arts, entertainment, and recreation	0.93	0.89	0.89	0.85	0.86
Accommodation and food services	1.07	1.06	1.06	1.08	1.09
Other services, except public administration	0.87	0.87	0.85	0.85	0.85
Government and government enterprises	1.62	1.65	1.66	1.66	1.64
Federal, civilian	2.45	2.44	2.38	2.34	2.34
Military	0.54	0.52	0.54	0.55	0.57
State and local	1.61	1.65	1.66	1.67	1.65
State government	2.82	2.89	2.92	2.99	2.92
Local government	1.15	1.17	1.19	1.17	1.17
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 2: Location Quotients for Dona Ana County (NM Base) 2013-2017					
	2013	2014	2015	2016	2017
NM Based					
By type					
Wage and salary employment	0.98	0.99	0.98	0.99	0.99
Proprietors employment	1.06	1.05	1.06	1.02	1.03
Farm proprietors employment	0.96	0.97	0.96	0.96	0.97
Nonfarm proprietors employment	1.07	1.06	1.07	1.03	1.04
By industry					
Farm employment	1.27	1.25	1.27	1.29	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	2.54	2.91	3.01	2.91	2.94
Mining	0.10	0.08	0.09	0.10	0.11
Utilities	0.96	0.97	1.01	0.98	0.97
Construction	1.10	1.09	1.09	1.10	1.05
Manufacturing	0.99	0.95	0.89	0.93	0.94
Wholesale trade	0.68	0.66	0.70	0.69	0.68
Retail trade	0.92	0.92	0.91	0.90	0.93
Transportation and warehousing	1.10	1.07	1.09	1.13	1.17
Information	0.78	0.80	0.77	0.66	0.65
Finance and insurance	0.92	0.93	0.95	0.95	0.94
Real estate and rental and leasing	0.99	1.00	1.03	1.04	1.05
Professional, scientific, and technical services	0.85	0.82	0.84	0.82	0.78
Management of companies and enterprises	0.13	0.17	0.16	0.18	0.18
Administrative and waste management services	1.04	1.10	1.00	0.97	0.93
Educational services	0.80	0.78	0.84	0.85	0.95
Health care and social assistance	1.29	1.32	1.32	1.31	1.34
Arts, entertainment, and recreation	0.94	0.90	0.89	0.87	0.86
Accommodation and food services	0.96	0.95	0.94	0.95	0.96
Other services, except public administration	0.99	0.99	0.97	0.96	0.96
Government and government enterprises	1.09	1.10	1.10	1.09	1.09
Federal, civilian	1.34	1.35	1.31	1.28	1.28
Military	0.35	0.34	0.36	0.35	0.35
State and local	1.13	1.14	1.14	1.13	1.13
State government	1.53	1.53	1.52	1.54	1.52
Local government	0.91	0.92	0.92	0.91	0.92
Total employment	1.0	1.0	1.0	1.0	1.0

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

Table 3: Dona Ana County, Total Employment by Industry 2017		
	Total Jobs	Percent of Total Employment
By type		
Wage and salary employment	77723	77.80
Proprietors employment	22178	22.20
Farm proprietors employment	1881	1.88
Nonfarm proprietors employment	20297	20.32
By industry		
Farm employment	3318	3.32
Nonfarm employment	96583	96.68
Private nonfarm employment	76147	76.22
Forestry, fishing, and related activities	1512	1.51
Mining	333	0.33
Utilities	452	0.45
Construction	6008	6.01
Manufacturing	2843	2.85
Wholesale trade	1536	1.54
Retail trade	9387	9.40
Transportation and warehousing	2878	2.88
Information	909	0.91
Finance and insurance	3133	3.14
Real estate and rental and leasing	3895	3.90
Professional, scientific, and technical services	5670	5.68
Management of companies and enterprises	105	0.11
Administrative and waste management services	4690	4.69
Educational services	1468	1.47
Health care and social assistance	16366	16.38
Arts, entertainment, and recreation	1954	1.96
Accommodation and food services	8146	8.15
Other services, except public administration	4862	4.87
Government and government enterprises	20436	20.46
Federal, civilian	3401	3.40
Military	559	0.56
State and local	16476	16.49
State government	7969	7.98
Local government	8507	8.52
Total employment	99,901	100.00

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

Table 4: Dona Ana County Employment by Industry 2013-2017					
Number of jobs by industry	2013	2014	2015	2016	2017
By type					
Wage and salary employment	76573	77050	77462	78779	77723
Proprietors employment	22378	22257	22410	21819	22178
Farm proprietors employment	1908	1901	1885	1875	1881
Nonfarm proprietors employment 2/	20470	20356	20525	19944	20297
By industry					
Farm employment	3426	3247	3362	3529	3318
Nonfarm employment	95525	96060	96510	97069	96583
Private nonfarm employment	74354	74907	75522	76119	76147
Forestry, fishing, and related activities	1224	1514	1526	1562	1512
Mining	347	278	292	306	333
Utilities	411	410	434	444	452
Construction	5987	5948	5980	6053	6008
Manufacturing	3219	2956	2772	2831	2843
Wholesale trade	1665	1738	1825	1602	1536
Retail trade	9528	9613	9593	9420	9387
Transportation and warehousing	2585	2529	2717	2765	2878
Information	1158	1147	1098	973	909
Finance and insurance	2966	2960	2987	3116	3133
Real estate and rental and leasing	3508	3600	3753	3806	3895
Professional, scientific, and technical services	5946	5693	5941	5843	5670
Management of companies and enterprises	68	90	86	105	105
Administrative and waste management services	5217	5504	4856	4836	4690
Educational services	1202	1194	1305	1332	1468
Health care and social assistance	14739	15058	15644	16190	16366
Arts, entertainment, and recreation	2047	2000	1969	1931	1954
Accommodation and food services	7589	7654	7784	8116	8146
Other services, except public administration	4948	5021	4960	4888	4862
Government and government enterprises	21171	21153	20988	20950	20436
Federal, civilian	3757	3632	3506	3466	3401
Military	591	552	559	555	559
State and local	16823	16969	16923	16929	16476
State government	8131	8226	8198	8320	7969
Local government	8692	8743	8725	8609	8507
Total employment	98,951	99,307	99,872	100,598	99,901

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

Table 5: New Mexico Employment by Industry 2013-2017					
Number of jobs by industry	2013	2014	2015	2016	2017
By type					
Wage and salary employment	846,495	852,348	860,023	861,222	862,272
Proprietors employment	228,970	231,044	231,850	231,184	235,600
Farm proprietors employment	21,547	21,473	21,405	21,291	21,372
Nonfarm proprietors employment	207,423	209,571	210,445	209,893	214,228
By industry					
Farm employment	29,208	28,262	28,866	29,641	28,633
Nonfarm employment	1,046,257	1,055,130	1,063,007	1,062,765	1,069,239
Private nonfarm employment	835,402	845,778	854,438	854,243	862,954
Forestry, fishing, and related activities	5,235	5,675	5,540	5,819	5,658
Mining	36,857	38,222	36,655	31,808	33,725
Utilities	4,652	4,591	4,684	4,900	5,099
Construction	59,142	59,584	59,709	60,012	62,633
Manufacturing	35,463	34,022	34,158	33,188	33,239
Wholesale trade	26,688	28,856	28,502	25,379	24,946
Retail trade	112,726	113,923	114,888	113,636	111,443
Transportation and warehousing	25,502	25,903	27,243	26,672	27,060
Information	16,059	15,725	15,588	16,001	15,339
Finance and insurance	35,010	34,783	34,461	35,684	36,737
Real estate and rental and leasing	38,414	39,111	39,660	39,866	40,634
Professional, scientific, and technical services	75,919	76,116	77,542	77,751	79,601
Management of companies and enterprises	5,502	5,631	5,877	6,337	6,449
Administrative and waste management services	54,597	54,370	52,998	53,887	55,307
Educational services	16,426	16,736	16,965	17,026	17,020
Health care and social assistance	123,737	124,796	129,720	134,269	134,712
Arts, entertainment, and recreation	23,734	24,225	24,245	24,151	24,831
Accommodation and food services	85,494	88,296	90,192	92,521	93,037
Other services, except public administration	54,245	55,213	55,811	55,336	55,484
Government and government enterprises	210,855	209,352	208,569	208,522	206,285
Federal, civilian	30,400	29,452	29,188	29,385	29,288
Military	18,350	17,518	16,923	17,159	17,348
State and local	162,105	162,382	162,458	161,978	159,649
State government	57,772	58,752	58,962	58,703	57,617
Local government	104,333	103,630	103,496	103,275	102,032
Total employment	1,075,465	1,083,392	1,091,873	1,092,406	1,097,872

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

Table 6: United States Employment by Industry 2013-2017

Number of jobs by industry	2013	2014	2015	2016	2017
By type					
Wage and salary employment	141,932,000	144,722,000	147,635,000	149,904,000	151,825,000
Proprietors employment	40,393,100	41,513,800	42,682,800	43,464,900	44,307,200
Farm proprietors employment	1,856,000	1,842,000	1,832,000	1,823,000	1,812,000
Nonfarm proprietors employment 2/	38,537,100	39,671,800	40,850,800	41,641,900	42,495,200
By industry					
Farm employment	2,645,000	2,645,000	2,649,000	2,643,000	2,631,000
Nonfarm employment	179,680,100	183,590,800	187,668,800	190,725,900	193,501,200
Private nonfarm employment	155,625,100	159,536,800	163,523,800	166,427,900	169,096,200
Forestry, fishing, and related activities	909,100	941,000	915,900	935,200	926,400
Mining	1,607,000	1,597,500	1,553,300	1,452,200	1,511,100
Utilities	578,300	580,600	597,400	622,000	663,500
Construction	9,237,800	9,564,300	9,844,900	10,322,100	10,634,600
Manufacturing	12,761,200	12,908,600	13,076,600	13,131,900	13,304,800
Wholesale trade	6,343,100	6,720,600	6,819,100	6,464,400	6,478,900
Retail trade	18,369,100	18,713,100	19,095,300	19,199,500	19,222,200
Transportation and warehousing	6,012,800	6,282,400	6,929,700	7,413,200	7,663,800
Information	3,264,600	3,327,000	3,316,400	3,384,900	3,384,400
Finance and insurance	9,815,300	9,621,000	9,844,600	10,187,400	10,510,200
Real estate and rental and leasing	8,056,800	8,405,800	8,668,300	8,868,200	9,105,900
Professional, scientific, and technical services	12,544,300	12,864,700	13,333,200	13,496,900	13,721,000
Management of companies and enterprises	2,265,000	2,360,300	2,425,500	2,603,800	2,667,400
Administrative and waste management services	11,366,900	11,719,200	11,770,600	12,033,600	12,088,500
Educational services	4,339,100	4,498,100	4,610,900	4,641,800	4,691,200
Health care and social assistance	20,499,200	20,798,400	21,351,100	21,817,100	22,201,200
Arts, entertainment, and recreation	4,043,800	4,223,300	4,220,100	4,363,100	4,455,500
Accommodation and food services	13,099,200	13,548,900	13,977,700	14,399,000	14,697,400
Other services, except public administration	10,512,500	10,862,000	11,173,200	11,091,600	11,168,200
Government and government enterprises	24,055,000	24,054,000	24,145,000	24,298,000	24,405,000
Federal, civilian	2,826,000	2,792,000	2,810,000	2,847,000	2,857,000
Military	2,032,000	1,975,000	1,956,000	1,927,000	1,929,000
State and local	19,197,000	19,287,000	19,379,000	19,524,000	19,619,000
State government	5,306,000	5,330,000	5,349,000	5,351,000	5,365,000
Local government	13,891,000	13,957,000	14,030,000	14,173,000	14,254,000
Total employment	182,325,100	186,235,800	190,317,800	193,368,900	196,132,200

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

Table 7: Dona Ana County, New Mexico and United States Percent of Employment by Industry 2017			
	United States	New Mexico	Dona Ana County
By type			
Wage and salary employment	77.41	78.54	77.80
Proprietors employment	22.59	21.46	22.20
Farm proprietors employment	0.92	1.95	1.88
Nonfarm proprietors employment	21.67	19.51	20.32
By industry			
Farm employment	1.34	2.61	3.32
Nonfarm employment	98.66	97.39	96.68
Private nonfarm employment	86.22	78.60	76.22
Forestry, fishing, and related activities	0.47	0.52	1.51
Mining	0.77	3.07	0.33
Utilities	0.34	0.46	0.45
Construction	5.42	5.70	6.01
Manufacturing	6.78	3.03	2.85
Wholesale trade	3.30	2.27	1.54
Retail trade	9.80	10.15	9.40
Transportation and warehousing	3.91	2.46	2.88
Information	1.73	1.40	0.91
Finance and insurance	5.36	3.35	3.14
Real estate and rental and leasing	4.64	3.70	3.90
Professional, scientific, and technical services	7.00	7.25	5.68
Management of companies and enterprises	1.36	0.59	0.11
Administrative and waste management services	6.16	5.04	4.69
Educational services	2.39	1.55	1.47
Health care and social assistance	11.32	12.27	16.38
Arts, entertainment, and recreation	2.27	2.26	1.96
Accommodation and food services	7.49	8.47	8.15
Other services, except public administration	5.69	5.05	4.87
Government and government enterprises	12.44	18.79	20.46
Federal, civilian	1.46	2.67	3.40
Military	0.98	1.58	0.56
State and local	10.00	14.54	16.49
State government	2.74	5.25	7.98
Local government	7.27	9.29	8.52
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 County Percent of Employment by Sectors 2013-2017					
Description	2013	2014	2015	2016	2017
By type					
Wage and salary employment	77.38	77.59	77.56	78.31	77.80
Proprietors employment	22.62	22.41	22.44	21.69	22.20
Farm proprietors employment	1.93	1.91	1.89	1.86	1.88
Nonfarm proprietors employment	20.69	20.50	20.55	19.83	20.32
By industry					
Farm employment	3.46	3.27	3.37	3.51	3.32
Nonfarm employment	96.54	96.73	96.63	96.49	96.68
Private nonfarm employment	75.14	75.43	75.62	75.67	76.22
Forestry, fishing, and related activities	1.24	1.52	1.53	1.55	1.51
Mining	0.35	0.28	0.29	0.30	0.33
Utilities	0.42	0.41	0.43	0.44	0.45
Construction	6.05	5.99	5.99	6.02	6.01
Manufacturing	3.25	2.98	2.78	2.81	2.85
Wholesale trade	1.68	1.75	1.83	1.59	1.54
Retail trade	9.63	9.68	9.61	9.36	9.40
Transportation and warehousing	2.61	2.55	2.72	2.75	2.88
Information	1.17	1.16	1.10	0.97	0.91
Finance and insurance	3.00	2.98	2.99	3.10	3.14
Real estate and rental and leasing	3.55	3.63	3.76	3.78	3.90
Professional, scientific, and technical services	6.01	5.73	5.95	5.81	5.68
Management of companies and enterprises	0.07	0.09	0.09	0.10	0.11
Administrative and waste management services	5.27	5.54	4.86	4.81	4.69
Educational services	1.21	1.20	1.31	1.32	1.47
Health care and social assistance	14.90	15.16	15.66	16.09	16.38
Arts, entertainment, and recreation	2.07	2.01	1.97	1.92	1.96
Accommodation and food services	7.67	7.71	7.79	8.07	8.15
Other services, except public administration	5.00	5.06	4.97	4.86	4.87
Government and government enterprises	21.40	21.30	21.01	20.83	20.46
Federal, civilian	3.80	3.66	3.51	3.45	3.40
Military	0.60	0.56	0.56	0.55	0.56
State and local	17.00	17.09	16.94	16.83	16.49
State government	8.22	8.28	8.21	8.27	7.98
Local government	8.78	8.80	8.74	8.56	8.52
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 2013-2017

Description	2013	2014	2015	2016	2017
By type					
Wage and salary employment	78.71	78.67	78.77	78.84	78.54
Proprietors employment	21.29	21.33	21.23	21.16	21.46
Farm proprietors employment	2.00	1.98	1.96	1.95	1.95
Nonfarm proprietors employment	19.29	19.34	19.27	19.21	19.51
By industry					
Farm employment	2.72	2.61	2.64	2.71	2.61
Nonfarm employment	97.28	97.39	97.36	97.29	97.39
Private nonfarm employment	77.68	78.07	78.25	78.20	78.60
Forestry, fishing, and related activities	0.49	0.52	0.51	0.53	0.52
Mining	3.43	3.53	3.36	2.91	3.07
Utilities	0.43	0.42	0.43	0.45	0.46
Construction	5.50	5.50	5.47	5.49	5.70
Manufacturing	3.30	3.14	3.13	3.04	3.03
Wholesale trade	2.48	2.66	2.61	2.32	2.27
Retail trade	10.48	10.52	10.52	10.40	10.15
Transportation and warehousing	2.37	2.39	2.50	2.44	2.46
Information	1.49	1.45	1.43	1.46	1.40
Finance and insurance	3.26	3.21	3.16	3.27	3.35
Real estate and rental and leasing	3.57	3.61	3.63	3.65	3.70
Professional, scientific, and technical services	7.06	7.03	7.10	7.12	7.25
Management of companies and enterprises	0.51	0.52	0.54	0.58	0.59
Administrative and waste management services	5.08	5.02	4.85	4.93	5.04
Educational services	1.53	1.54	1.55	1.56	1.55
Health care and social assistance	11.51	11.52	11.88	12.29	12.27
Arts, entertainment, and recreation	2.21	2.24	2.22	2.21	2.26
Accommodation and food services	7.95	8.15	8.26	8.47	8.47
Other services, except public administration	5.04	5.10	5.11	5.07	5.05
Government and government enterprises	19.61	19.32	19.10	19.09	18.79
Federal, civilian	2.83	2.72	2.67	2.69	2.67
Military	1.71	1.62	1.55	1.57	1.58
State and local	15.07	14.99	14.88	14.83	14.54
State government	5.37	5.42	5.40	5.37	5.25
Local government	9.70	9.57	9.48	9.45	9.29
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 10: United States Percent of Employment by Industry 2013 - 2017					
Description	2013	2014	2015	2016	2017
By type					
Wage and salary employment	77.85	77.71	77.57	77.52	77.41
Proprietors employment	22.15	22.29	22.43	22.48	22.59
Farm proprietors employment	1.02	0.99	0.96	0.94	0.92
Nonfarm proprietors employment	21.14	21.30	21.46	21.53	21.67
By industry					
Farm employment	1.45	1.42	1.39	1.37	1.34
Nonfarm employment	98.55	98.58	98.61	98.63	98.66
Private nonfarm employment	85.36	85.66	85.92	86.07	86.22
Forestry, fishing, and related activities	0.50	0.51	0.48	0.48	0.47
Mining	0.88	0.86	0.82	0.75	0.77
Utilities	0.32	0.31	0.31	0.32	0.34
Construction	5.07	5.14	5.17	5.34	5.42
Manufacturing	7.00	6.93	6.87	6.79	6.78
Wholesale trade	3.48	3.61	3.58	3.34	3.30
Retail trade	10.07	10.05	10.03	9.93	9.80
Transportation and warehousing	3.30	3.37	3.64	3.83	3.91
Information	1.79	1.79	1.74	1.75	1.73
Finance and insurance	5.38	5.17	5.17	5.27	5.36
Real estate and rental and leasing	4.42	4.51	4.55	4.59	4.64
Professional, scientific, and technical services	6.88	6.91	7.01	6.98	7.00
Management of companies and enterprises	1.24	1.27	1.27	1.35	1.36
Administrative and waste management services	6.23	6.29	6.18	6.22	6.16
Educational services	2.38	2.42	2.42	2.40	2.39
Health care and social assistance	11.24	11.17	11.22	11.28	11.32
Arts, entertainment, and recreation	2.22	2.27	2.22	2.26	2.27
Accommodation and food services	7.18	7.28	7.34	7.45	7.49
Other services, except public administration	5.77	5.83	5.87	5.74	5.69
Government and government enterprises	13.19	12.92	12.69	12.57	12.44
Federal, civilian	1.55	1.50	1.48	1.47	1.46
Military	1.11	1.06	1.03	1.00	0.98
State and local	10.53	10.36	10.18	10.10	10.00
State government	2.91	2.86	2.81	2.77	2.74
Local government	7.62	7.49	7.37	7.33	7.27
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