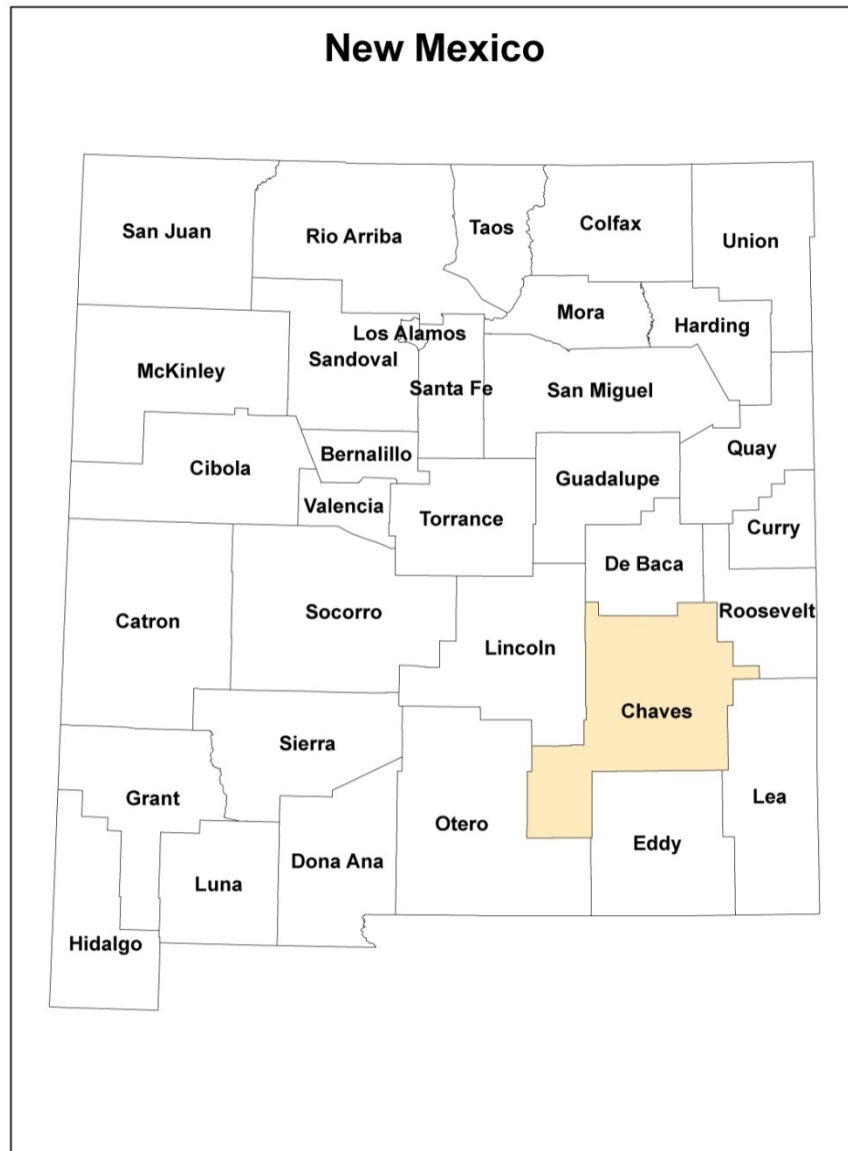




The Economic Base of Chaves County, NM

**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 Djava, 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:

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

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>.

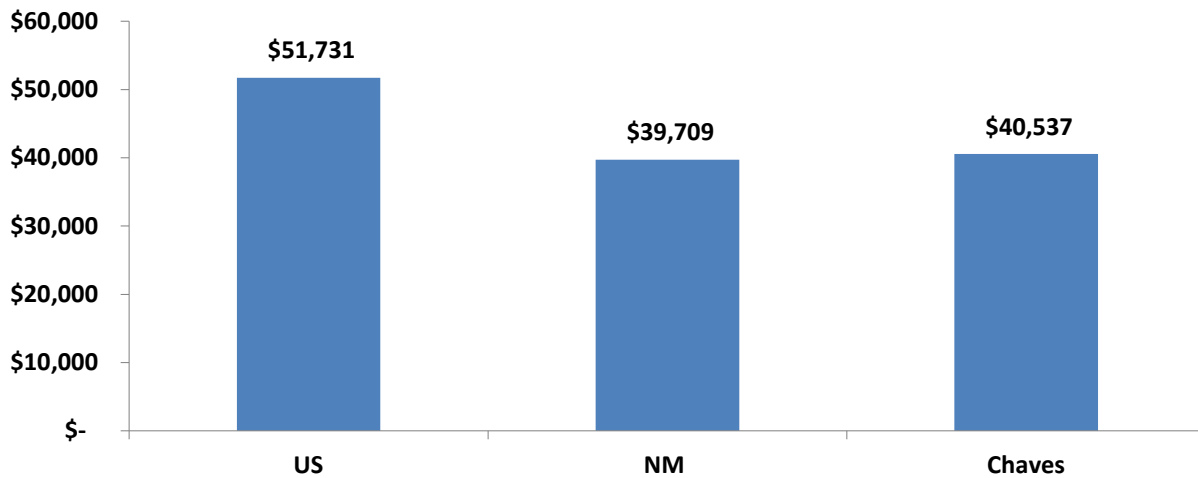
In this report, LQs are calculated for industries within Chaves County with national employment as the basis for comparison (see Table 1). Additionally, LQs using employment for the state of New Mexico as the benchmark are included (see Table 2). For the purposes of this report, basic industries are identified 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 the preceding years (2013-2017). The economic 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.

Chaves County, New Mexico

Chaves County is located in south central New Mexico and contains 6,065.28 square miles, or 5.0 percent of the land area in New Mexico. The population of Chaves County

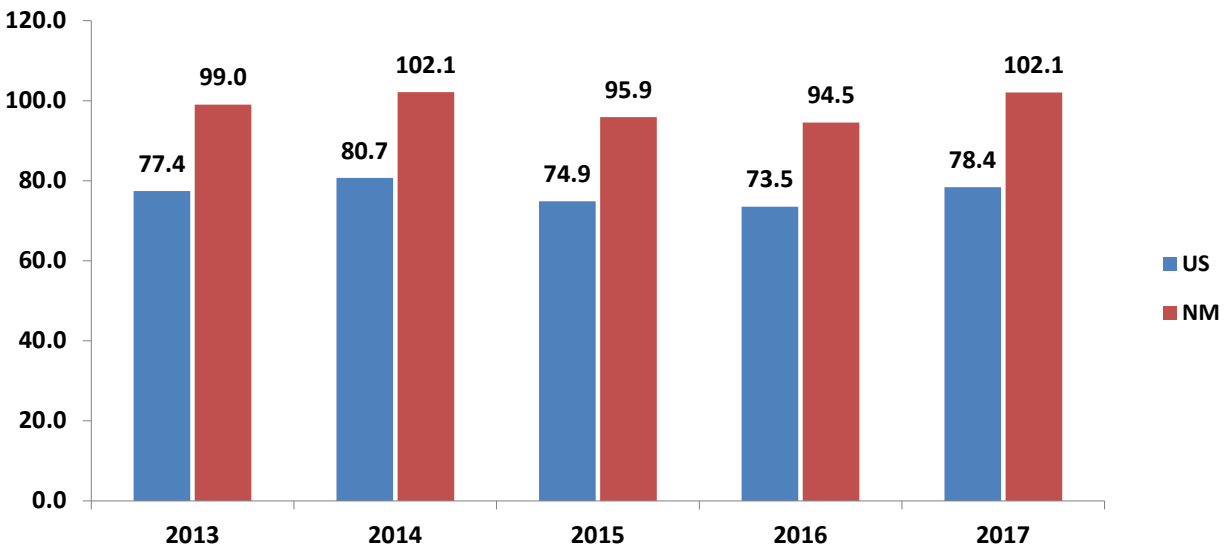
(64,866) in 2017 was 3.10 percent of the state total, ranking tenth among New Mexico's counties in terms of population. The City of Roswell, with a population of 47,775 in 2017, contained 73.6 percent of Chaves County's population (U.S Census Bureau, 2018). Between 2013 and 2017, Chaves County's population decreased by 1.47 percent from a population of 65,836 in 2013 to 64,886 in 2017, whereas the New Mexico and the U.S. population increased by .03 percent and 2.88 percent, respectively.

Figure 1. Per Capita Personal Income: Chaves (2017)



Per capita personal income in Chaves County in 2017 was \$40,537. In terms of per capita income, Chaves County ranked 7th in the state. Per capita income for Chaves County in 2017 was 102.09 percent of the average state of New Mexico (\$39,709), and 78.36 percent of the national average (\$51,731) (See Figure 1 and 2). The growth rate of per capita income in Chaves County between 2013 and 2017 was 16.70 percent, higher than the state growth rate of 13.21 percent and the nation's 15.34 percent growth rate.

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



The total number of jobs in Chaves County in 2017 was 29,525. Between 2013 and 2017, total employment in Chaves County increased by 1.70 percent, while the state also had an increase in growth of 2.08 percent and the nation had a growth of 7.57 percent. The Chaves County employment to population ratio was 0.46, while the state and national ratios were (0.52) and (0.60), respectively.

In 2017, 80.31 percent of total employment in Chaves County were employed in the private sector, while Government and government enterprises accounted for 15.24 percent. Farm employment accounted for 4.45 percent of the total employment in the county. The industries with the highest percentages of total employment in 2017 included: Health care and Social assistance (13.18); Retail trade (12.13); and Accommodation and food services (9.93). In the public sector, state and local government was the largest employer with 8.42 percent employed in Local government and 5.43 percent employed in State government. Federal/civilian and military employment accounted for 0.80 percent and 0.59 percent of the total, respectively. Chaves County employment by sector for 2017 is displayed in Table 3.

Basic and Non-Basic Industries in Chaves County, New Mexico

Table 1 contains LQs for Chaves County from 2013 to 2017 calculated using data for the United States as the basis of comparison. Table 2 contains LQs for Chaves County from 2013 to

2017 calculated with respect to the state of New Mexico. For the purposes of this report, an LQ greater than 1.0 with respect to the U.S. employment is considered as a basic industry. The sectors with an LQ greater than 1.0 have been shaded.

Mining, as part of the private sector, has an LQ of 9.66 and 2,198 jobs. Chaves County's Mining industry contains a large share of the overall oil and gas production within the state of New Mexico. Additionally, the level of specialization for the Agricultural sector is present. The Agricultural sector here is defined to include: Farm employment with an LQ of 3.32 and Forestry, fishing, and related activities with an LQ of 1.35 in 2017. In combination, these sectors accounted for 1,501 total jobs in 2017. Accommodation and Food services had an LQ of 1.33 and accounted for 2,933 jobs. This industry has shown a fluctuating LQ beginning in 2013, in which the peak year was 2016 for the years considered.

The other sectors with LQs above 1.0 included Retail trade (1.24), Health care and Social assistance (1.16), and Wholesale Trade (1.00). However, these industries in Chaves County are considered non-basic or support activities given that no export product or services takes place outside the county.

For the public sector, the entry labeled Government and government enterprises is the aggregate figure of all government levels listed as government categories. Government sectors with LQs greater than 1.0 in 2017 include State government (1.99) and Local government (1.16). Combined, state and local government accounted for 13.85 percent of total employment in 2017. The LQ for State government has fluctuated since 2013, as the initial year for the years considered here.

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 Chaves County will be considered as a non-basic industry.

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

1. Mining accounted for 2,198 jobs.
2. Agricultural sector including Farm employment with 1,313 and 188 jobs in the Forestry, fishing, and related activities sector, accounted for 1,501 jobs for the sector.

3. Accommodation and food services, accounted for 2,933 jobs.
4. State government employment, accounted for 1,604 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 Chaves County, the multiplier is equal to 3.58 (29,525/ 8,236). This ratio suggests that the addition of each basic sector job in Chaves County would be associated with additional 3.58 non-basic sector jobs. The export base multiplier (3.58) calculated above reinforces the importance of basic (exporting) industries to the economy of Chaves 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 Chaves County, potential for double counting occupations 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 data figures obtained from the BEA for the economic data and the U.S. Census Bureau for population data. Between 2016 and 2017 the population of Chaves County decreased by 0.77 percent, from 65,371 in 2016 to 64,866 in 2017. Per capita income increased by 10.55 percent between 2016 and 2017, from \$36,667 in 2016 to \$40,537 in 2017. Total employment decreased by 1.62 percent with 486 lost jobs from 2016 to 2017.

Tables 1 to 10 appear on pages 7-16

Table 1: Location Quotients for Chaves County (US Base) 2013-2017					
US Base	2013	2014	2015	2016	2017
By type					
Wage and salary employment	0.97	0.97	0.98	0.98	0.97
Proprietors employment	1.11	1.09	1.07	1.07	1.11
Farm proprietors employment	1.72	1.75	1.81	1.82	1.90
Nonfarm proprietors employment	1.08	1.06	1.04	1.03	1.07
By industry					
Farm employment	3.20	3.01	3.21	3.49	3.32
Nonfarm employment	0.97	0.97	0.97	0.97	0.97
Private nonfarm employment	0.94	0.94	0.94	0.93	0.93
Forestry, fishing, and related activities	1.49	1.39	1.46	1.42	1.35
Mining	8.76	8.49	8.99	9.45	9.66
Utilities	1.08	0.82	0.77	0.70	0.70
Construction	0.87	0.86	0.82	0.79	0.77
Manufacturing	0.53	0.52	0.55	0.48	0.50
Wholesale trade	0.98	0.97	1.02	1.04	1.00
Retail trade	1.22	1.26	1.25	1.24	1.24
Transportation and warehousing	0.95	1.03	0.97	0.96	0.89
Information	0.59	0.61	0.58	0.63	0.62
Finance and insurance	0.69	0.69	0.61	0.62	0.64
Real estate and rental and leasing	0.65	0.64	0.64	0.65	0.65
Professional, scientific, and technical services	0.53	0.52	0.50	0.46	0.47
Management of companies and enterprises	0.18	0.16	0.20	0.18	0.18
Administrative and waste management services	0.58	0.61	0.64	0.65	0.66
Educational services	0.27	0.30	0.28	0.26	0.26
Health care and social assistance	1.12	1.13	1.13	1.15	1.16
Arts, entertainment, and recreation	0.56	0.53	0.55	0.52	0.52
Accommodation and food services	1.30	1.32	1.31	1.35	1.33
Other services, except public administration	0.91	0.93	0.96	0.93	0.95
Government and government enterprises	1.16	1.17	1.17	1.21	1.22
Federal, civilian	0.61	0.57	0.54	0.55	0.55
Military	0.57	0.55	0.57	0.59	0.60
State and local	1.31	1.32	1.32	1.36	1.38
State government	1.77	1.82	1.78	1.95	1.99
Local government	1.13	1.13	1.14	1.14	1.16
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 Chaves County (NM Base) 2013-2017					
NM Based	2013	2014	2015	2016	2017
By type					
Wage and salary employment	0.96	0.96	0.97	0.96	0.96
Proprietors employment	1.15	1.14	1.13	1.13	1.16
Farm proprietors employment	0.88	0.87	0.89	0.88	0.90
Nonfarm proprietors employment	1.18	1.17	1.15	1.16	1.19
By industry					
Farm employment	1.71	1.64	1.69	1.76	1.71
Nonfarm employment	0.98	0.98	0.98	0.98	0.98
Private nonfarm employment	1.03	1.03	1.03	1.02	1.02
Forestry, fishing, and related activities	1.52	1.34	1.39	1.29	1.24
Mining	2.25	2.06	2.19	2.44	2.42
Utilities	0.79	0.60	0.56	0.51	0.51
Construction	0.80	0.80	0.78	0.77	0.74
Manufacturing	1.12	1.15	1.20	1.08	1.11
Wholesale trade	1.37	1.31	1.40	1.49	1.46
Retail trade	1.18	1.21	1.19	1.19	1.19
Transportation and warehousing	1.32	1.45	1.42	1.51	1.42
Information	0.71	0.75	0.71	0.75	0.77
Finance and insurance	1.14	1.10	1.00	1.00	1.03
Real estate and rental and leasing	0.80	0.80	0.80	0.82	0.81
Professional, scientific, and technical services	0.52	0.51	0.50	0.45	0.46
Management of companies and enterprises	0.44	0.40	0.47	0.41	0.42
Administrative and waste management services	0.71	0.77	0.82	0.82	0.80
Educational services	0.42	0.47	0.43	0.41	0.41
Health care and social assistance	1.10	1.10	1.07	1.06	1.07
Arts, entertainment, and recreation	0.56	0.54	0.55	0.53	0.53
Accommodation and food services	1.17	1.18	1.16	1.19	1.17
Other services, except public administration	1.04	1.06	1.10	1.05	1.08
Government and government enterprises	0.78	0.78	0.77	0.80	0.81
Federal, civilian	0.34	0.32	0.30	0.30	0.30
Military	0.37	0.36	0.38	0.38	0.37
State and local	0.91	0.91	0.90	0.93	0.95
State government	0.96	0.96	0.93	1.01	1.04
Local government	0.89	0.89	0.88	0.89	0.91
Total employment	1.0	1.0	1.0	1.00	1.00

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

Table 3: Chaves County, Total Employment by Industry 2017		
	Total Jobs	Percent of Total Employment
By type		
Wage and salary employment	22153	75.03
Proprietors employment	7372	24.97
Farm proprietors employment	518	1.75
Nonfarm proprietors employment	6854	23.21
By industry		
Farm employment	1313	4.45
Nonfarm employment	28212	95.55
Private nonfarm employment	23712	80.31
Forestry, fishing, and related activities	188	0.64
Mining	2198	7.44
Utilities	70	0.24
Construction	1239	4.20
Manufacturing	992	3.36
Wholesale trade	980	3.32
Retail trade	3581	12.13
Transportation and warehousing	1030	3.49
Information	316	1.07
Finance and insurance	1018	3.45
Real estate and rental and leasing	889	3.01
Professional, scientific, and technical services	977	3.31
Management of companies and enterprises	72	0.24
Administrative and waste management services	1195	4.05
Educational services	186	0.63
Health care and social assistance	3892	13.18
Arts, entertainment, and recreation	351	1.19
Accommodation and food services	2933	9.93
Other services, except public administration	1605	5.44
Government and government enterprises	4500	15.24
Federal, civilian	236	0.80
Military	174	0.59
State and local	4090	13.85
State government	1604	5.43
Local government	2486	8.42
Total employment	29,525	100.00

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

Table 4: Chaves County Employment by Industry 2013-2017					
Description	2013	2014	2015	2016	2017
By type					
Wage and salary employment	21903	22164	22700	22822	22153
Proprietors employment	7128	7103	7157	7189	7372
Farm proprietors employment	509	507	519	516	518
Nonfarm proprietors employment 2/	6619	6596	6638	6673	6854
By industry					
Farm employment	1348	1252	1336	1431	1313
Nonfarm employment	27683	28015	28521	28580	28212
Private nonfarm employment	23223	23589	24108	24025	23712
Forestry, fishing, and related activities	215	206	210	206	188
Mining	2242	2131	2191	2129	2198
Utilities	99	75	72	68	70
Construction	1276	1290	1272	1266	1239
Manufacturing	1076	1056	1123	982	992
Wholesale trade	988	1021	1089	1041	980
Retail trade	3578	3711	3750	3706	3581
Transportation and warehousing	911	1013	1055	1108	1030
Information	308	318	304	330	316
Finance and insurance	1077	1037	946	983	1018
Real estate and rental and leasing	828	841	868	893	889
Professional, scientific, and technical services	1066	1042	1052	970	977
Management of companies and enterprises	66	61	76	71	72
Administrative and waste management services	1049	1130	1186	1216	1195
Educational services	185	212	201	190	186
Health care and social assistance	3668	3707	3792	3901	3892
Arts, entertainment, and recreation	358	352	365	349	351
Accommodation and food services	2705	2807	2870	3017	2933
Other services, except public administration	1528	1579	1686	1599	1605
Government and government enterprises	4460	4426	4413	4555	4500
Federal, civilian	275	252	237	242	236
Military	184	171	176	177	174
State and local	4001	4003	4000	4136	4090
State government	1497	1523	1496	1622	1604
Local government	2504	2480	2504	2514	2486
Total employment	29,031	29,267	29,857	30,011	29,525

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

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: Chaves County, New Mexico and United States Percent of Employment by Industry 2017

	United States	New Mexico	Chaves County
By type			
Wage and salary employment	77.41	78.54	75.03
Proprietors employment	22.59	21.46	24.97
Farm proprietors employment	0.92	1.95	1.75
Nonfarm proprietors employment	21.67	19.51	23.21
By industry			
Farm employment	1.34	2.61	4.45
Nonfarm employment	98.66	97.39	95.55
Private nonfarm employment	86.22	78.60	80.31
Forestry, fishing, and related activities	0.47	0.52	0.64
Mining	0.77	3.07	7.44
Utilities	0.34	0.46	0.24
Construction	5.42	5.70	4.20
Manufacturing	6.78	3.03	3.36
Wholesale trade	3.30	2.27	3.32
Retail trade	9.80	10.15	12.13
Transportation and warehousing	3.91	2.46	3.49
Information	1.73	1.40	1.07
Finance and insurance	5.36	3.35	3.45
Real estate and rental and leasing	4.64	3.70	3.01
Professional, scientific, and technical services	7.00	7.25	3.31
Management of companies and enterprises	1.36	0.59	0.24
Administrative and waste management services	6.16	5.04	4.05
Educational services	2.39	1.55	0.63
Health care and social assistance	11.32	12.27	13.18
Arts, entertainment, and recreation	2.27	2.26	1.19
Accommodation and food services	7.49	8.47	9.93
Other services, except public administration	5.69	5.05	5.44
Government and government enterprises	12.44	18.79	15.24
Federal, civilian	1.46	2.67	0.80
Military	0.98	1.58	0.59
State and local	10.00	14.54	13.85
State government	2.74	5.25	5.43
Local government	7.27	9.29	8.42
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: Chaves County Percent of Employment by Sectors 2013-2017					
Description	2013	2014	2015	2016	2017
By type					
Wage and salary employment	75.45	75.73	76.03	76.05	75.03
Proprietors employment	24.55	24.27	23.97	23.95	24.97
Farm proprietors employment	1.75	1.73	1.74	1.72	1.75
Nonfarm proprietors employment	22.80	22.54	22.23	22.24	23.21
By industry					
Farm employment	4.64	4.28	4.47	4.77	4.45
Nonfarm employment	95.36	95.72	95.53	95.23	95.55
Private nonfarm employment	79.99	80.60	80.74	80.05	80.31
Forestry, fishing, and related activities	0.74	0.70	0.70	0.69	0.64
Mining	7.72	7.28	7.34	7.09	7.44
Utilities	0.34	0.26	0.24	0.23	0.24
Construction	4.40	4.41	4.26	4.22	4.20
Manufacturing	3.71	3.61	3.76	3.27	3.36
Wholesale trade	3.40	3.49	3.65	3.47	3.32
Retail trade	12.32	12.68	12.56	12.35	12.13
Transportation and warehousing	3.14	3.46	3.53	3.69	3.49
Information	1.06	1.09	1.02	1.10	1.07
Finance and insurance	3.71	3.54	3.17	3.28	3.45
Real estate and rental and leasing	2.85	2.87	2.91	2.98	3.01
Professional, scientific, and technical services	3.67	3.56	3.52	3.23	3.31
Management of companies and enterprises	0.23	0.21	0.25	0.24	0.24
Administrative and waste management services	3.61	3.86	3.97	4.05	4.05
Educational services	0.64	0.72	0.67	0.63	0.63
Health care and social assistance	12.63	12.67	12.70	13.00	13.18
Arts, entertainment, and recreation	1.23	1.20	1.22	1.16	1.19
Accommodation and food services	9.32	9.59	9.61	10.05	9.93
Other services, except public administration	5.26	5.40	5.65	5.33	5.44
Government and government enterprises	15.36	15.12	14.78	15.18	15.24
Federal, civilian	0.95	0.86	0.79	0.81	0.80
Military	0.63	0.58	0.59	0.59	0.59
State and local	13.78	13.68	13.40	13.78	13.85
State government	5.16	5.20	5.01	5.40	5.43
Local government	8.63	8.47	8.39	8.38	8.42
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 calculations

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