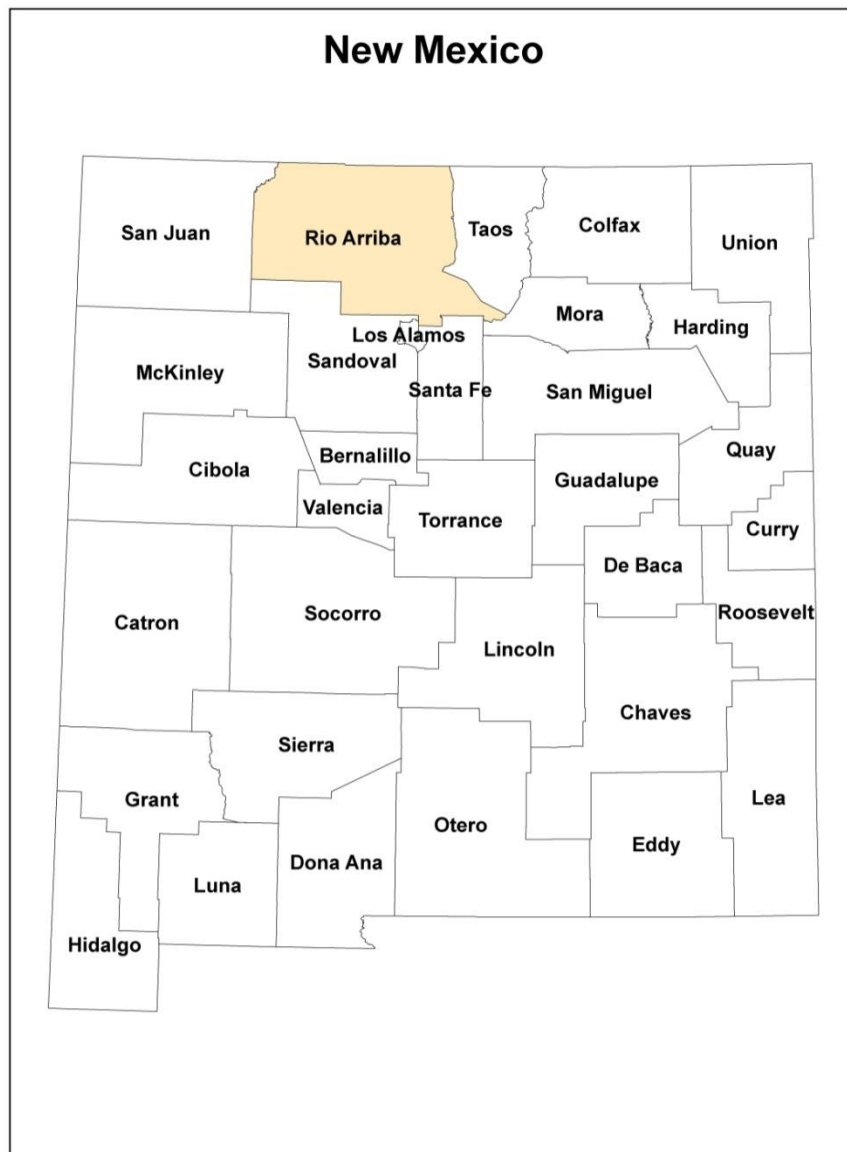


The Economic Base of Rio Arriba County, NM

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

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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 of 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. This theory also suggests that economic growth depends on sectors that export goods and services out of the region (basic industries), as opposed to those businesses whose services remain local, (non-basic industries). Basic industries promote local economic

growth by bringing jobs and income into the local economy. Non-basic industries serve local residents and provide support to basic industries.

An industry classified as basic in one region may be identified as non-basic in another region. One common means of identifying local basic activity is through the use of location quotients (LQs). LQs are calculated as a single industry's percent of total local employment divided by that industry's percent of total state or national employment. For example, an LQ for a single New Mexico industry (industry j) may be calculated as follows:

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

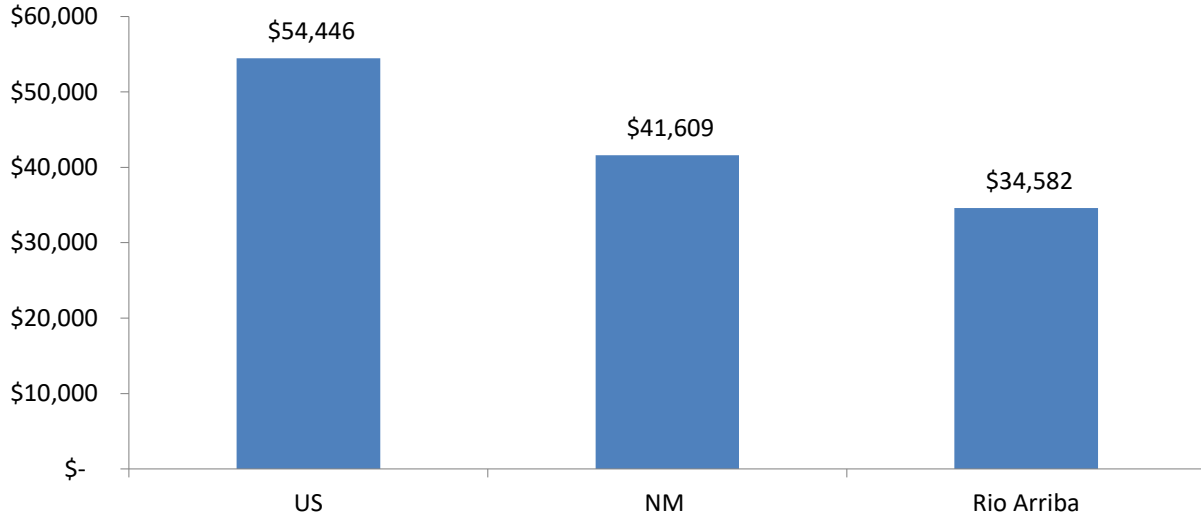
The LQ serves to illustrate the relative importance in the level of the local employment of that sector with respect to the benchmark economy, state or national. An LQ greater than 1.0 indicates that a particular industry employs proportionately more workers locally than it does at the state or national 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 Rio Arriba County with the national employment as the basis for comparison (see Table 1). Additionally, LQs using employment for the state of New Mexico as the benchmark are included (see Table 2). In this report, basic industries are identified 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 were available and for the four preceding years (2014-2018). The data used in this report are from the U.S. Department of Commerce, Bureau of Economic Analysis (BEA) which can be found at www.bea.gov.

Rio Arriba County, New Mexico

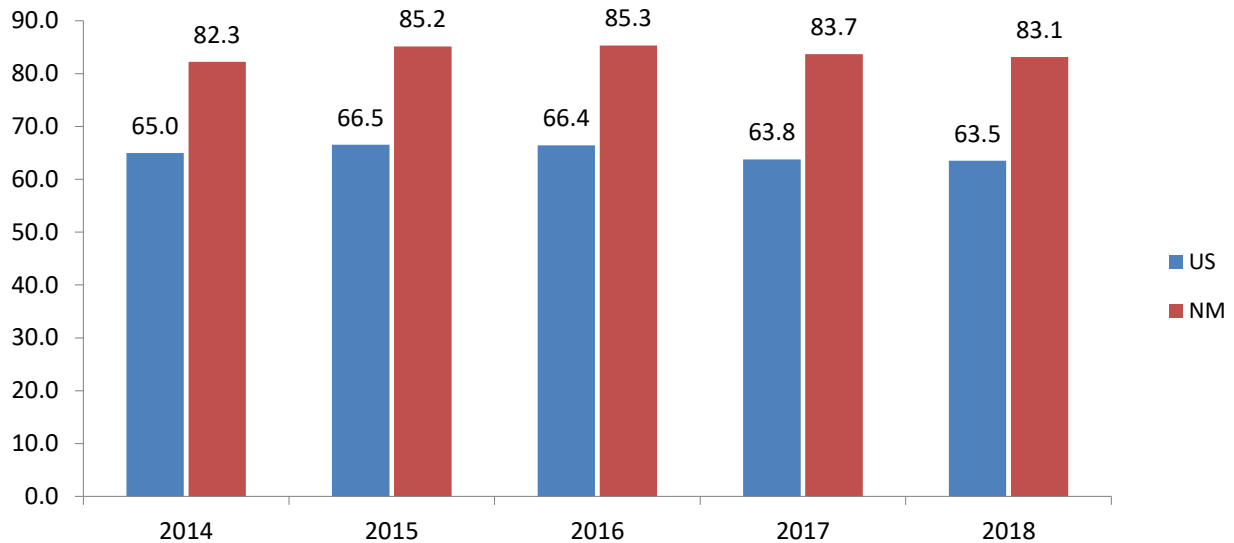
Rio Arriba County is located in northwestern New Mexico and contains 5,860.84 square miles, or 4.83 percent of the land area in New Mexico. The population of Rio Arriba County in 2018 was 39,006, or 1.86 percent of the state total, ranking 13th in New Mexico in terms of population. The Town of Española, with a population of 10,090 in 2018 represented 25.87 percent of the population of Rio Arriba County. Between 2014 and 2018, the population of Rio Arriba County decreased by 1.84 percent. During 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: Rio Arriba County (2018)



Per capita personal income in Rio Arriba County was \$34,582 in 2018. Per capita income for Rio Arriba County in 2018 was 83.11 percent of the corresponding state figure (\$41,609) and 63.52 percent of the national average (\$54,446) (See Figures 1 and 2). The percent growth of per capita income in Rio Arriba County between 2014 and 2018 was 13.07 percent, which was higher than the state's (11.91) and but lower than the nation's (15.70) growth rate for the same period.

Figure 2. Per Capita Personal Income of Rio Arriba County as a Percent of U.S. and New Mexico (2014-2018)



Total employment in Rio Arriba County was 15,707 in 2018. Between 2014 and 2018, total employment in Rio Arriba County increased by 0.35 percent, while the state’s total employment increased by 2.93 percent and the nation’s employment increased by 7.79 percent for the same period. The Rio Arriba County employment to population ratio was 0.40 in 2018, compared to the state ratio (0.53) and the nation’s ratio (0.61). This ratio represents a low rate of the population being employed in the county.

In 2018, 58.44 percent of Rio Arriba County was employed in the Private sector, while 29.40 percent was employed in Government and Government Enterprises and 12.16 percent worked in Farm employment. The industries with the highest percentages of total employment included: Healthcare and Social Assistance (11.96 percent), Retail Trade (8.81 percent), and Accommodation and Food Services (7.01). Within the public sector, Local government was the largest employer with 22.61 percent of total employment; State employment accounted for 4.45 percent, Federal/civilian accounted for 1.71 percent and Military for 0.62 percent. Employment for Rio Arriba County by sector is displayed in Table 1.

Basic and Non-Basic Industries in Rio Arriba County, New Mexico

Table 2 contains LQs for Rio Arriba County from 2014 to 2018 calculated using data for the United States as the basis of comparison. Table 3 contains LQs for Rio Arriba 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 the U.S. employment is considered as a basic industry. The sectors with an LQ greater than 1.0 have been shaded.

The importance of the Agricultural sector, here defined as Farm employment and Forestry, Fishing, and Related Activities is reflected in high LQs for both of these industries. Farm employment had an LQ of 9.37, with LQs greater than 8.62 for all years considered. Forestry, Fishing, and Related Activities had an LQ of 2.41 in 2018 and LQs greater than 1.99 for all years considered. The Agricultural sector for Rio Arriba (Farm employment and Forestry, Fishing, and Related Activities), is considered a basic sector.

Arts, Entertainment, and Recreation is also considered as a basic economic activity in Rio Arriba County. This sector had an LQ of 1.19 in 2018, reflecting the substantial artist community in and around Española. Additionally, Rio Arriba County is home to Heron Lake State Park, Vado Lake State Park, and numerous attractions in and around Chama including the Cumbres and Toltec Scenic Railroad. Because these attract tourists from nearby Santa Fe and Taos counties, the Arts, Entertainment, and Recreation industry is considered a basic economic sector for this analysis.

Healthcare and Social Assistance had an LQ of 1.06 in 2018. This LQ reflects the employment base of Rio Arriba's two medical centers, Los Alamos Medical Center and Española Hospital, both located in Española. Though the Healthcare and Social Assistance industry is often categorized as a non-basic industry, considering these hospitals' importance in serving several neighboring counties, this sector is considered as part of the basic economic base of Rio Arriba County.

Mining had an LQ of 2.07 in 2018. This industry's LQ is considerably higher in 2018 than in each of the previous years considered and will be considered a basic industry in Rio Arriba County.

The other sector with an LQ above 1.0 in 2018 included Utilities (2.47). Nevertheless, this industry in Rio Arriba County is to be considered as non-basic or a support industry.

The entry labeled Government and Government Enterprises is the aggregate figure of all government levels listed as government categories. All government sectors, with the exception of Military employment, had LQs greater than 1.0 in 2018. State government had an LQ of 1.66 in 2018 and had LQs greater than 1.64 in all years considered. State government reflects the employment base of the District Eleven New Mexico State Police and the New Mexico Environmental Improvement Office, both located in Española. Federal/civilian employment had an LQ of 1.21. This industry reflects the employment base of the East Rio Arriba Soil and Water Conservation District Office and the U.S. Rural Development Office, as well as Bandelier National Monument. For this analysis, Federal/civilian and State government employment are considered as basic economic activities. Local government had an LQ of 3.16 in 2018. However, local government is generally categorized as non-basic given that all local governments collect taxes from residents to provide for the services to the community, including employment. Following this practice, local government for Rio Arriba County will be considered as a non-basic industry.

The data and analysis suggest that in 2018 the following industries should be considered basic industries in Rio Arriba County:

1. The Agricultural sector, including Farm employment (1,910) and Forestry, Fishing, and Related Activities (183), accounted for 2,093 jobs.
2. Arts, Entertainment, and Recreation, accounted for 437 jobs.
3. Healthcare and Social Assistance, accounted for 1,878 jobs.
4. Mining, accounted for 219 jobs.
5. State government employment, accounted for 699 jobs.
6. Federal/civilian employment, accounted for 269 jobs.

It is common in economic base studies to calculate what is known as an export-base multiplier. This multiplier is obtained by dividing total employment in Rio Arriba County by basic sector employment. In the case of Rio Arriba County, the multiplier is equal to 2.81

(15,707/5,595). This ratio suggests that the addition of each basic sector job in Rio Arriba County would be associated with an additional 2.81 non-basic sector jobs. The export base multiplier (2.81) calculated above reinforces the importance of basic (exporting) industries to the economy of Rio Arriba 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 Rio Arriba 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 the economic data and the U.S. Census for population data. The population of Rio Arriba County in 2018 was 39,006, a decrease of 0.47 percent from the population of 39,191 in 2017. Per capita personal income in Rio Arriba County in 2018 was \$34,582, an increase of 4.53 percent from \$33,084 in 2017. Total employment increased by 0.01 percent, an increase of two jobs between 2017 and 2018.

Tables 1 to 10 appear on pages 8-17

Table 1: Rio Arriba Employment by Industry 2014-2018

Number of jobs by industry	2014	2015	2016	2017	2018
By type					
Wage and salary employment	10681	10941	10915	10989	10927
Proprietors employment	4971	4883	4712	4716	4780
Farm proprietors employment	1668	1666	1662	1660	1639
Nonfarm proprietors employment 2/	3303	3217	3050	3056	3141
By industry					
Farm employment	1915	1938	1966	1933	1910
Nonfarm employment	13737	13886	13661	13772	13797
Private nonfarm employment	8826	8945	8802	8943	9179
Forestry, fishing, and related activities	157	158	154	168	183
Mining	101	78	79	100	219
Utilities	112	121	119	114	114
Construction	645	657	637	633	655
Manufacturing	270	285	286	272	274
Wholesale trade	156	129	89	98	95
Retail trade	1426	1465	1410	1382	1384
Transportation and warehousing	169	251	234	259	287
Information	114	100	116	128	134
Finance and insurance	259	240	233	229	228
Real estate and rental and leasing	252	250	240	259	266
Professional, scientific, and technical services	N/A	N/A	375	404	N/A
Management of companies and enterprises	N/A	N/A	49	52	N/A
Administrative and waste management services	601	578	544	529	562
Educational services	229	238	228	218	200
Health care and social assistance	1801	1801	1816	1858	1878
Arts, entertainment, and recreation	352	359	367	420	437
Accommodation and food services	1019	1045	1104	1109	1101
Other services, except public administration	724	724	722	711	715
Government and government enterprises	4911	4941	4859	4829	4618
Federal, civilian	321	305	292	276	269
Military	107	100	100	100	98
State and local	4483	4536	4467	4453	4251
State government	788	738	721	704	699
Local government	3695	3798	3746	3749	3552
Total employment	15,652	15,824	15,627	15,705	15,707

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

Table 2: Location Quotients for Rio Arriba (US Base) 2014-2018					
US Base	2014	2015	2016	2017	2018
By type					
Wage and salary employment	0.88	0.89	0.90	0.91	0.90
Proprietors employment	1.42	1.38	1.34	1.31	1.32
Farm proprietors employment	10.79	10.96	11.31	11.55	11.70
Nonfarm proprietors employment	0.99	0.95	0.91	0.89	0.90
By industry					
Farm employment	8.62	8.81	9.22	9.24	9.37
Nonfarm employment	0.89	0.89	0.89	0.89	0.89
Private nonfarm employment	0.66	0.66	0.65	0.66	0.68
Forestry, fishing, and related activities	1.99	2.07	2.04	2.24	2.41
Mining	0.75	0.60	0.67	0.95	2.07
Utilities	2.30	2.44	2.37	2.42	2.47
Construction	0.80	0.80	0.76	0.75	0.76
Manufacturing	0.25	0.26	0.27	0.26	0.26
Wholesale trade	0.28	0.23	0.17	0.19	0.19
Retail trade	0.91	0.92	0.91	0.90	0.92
Transportation and warehousing	0.32	0.44	0.39	0.38	0.39
Information	0.41	0.36	0.42	0.47	0.49
Finance and insurance	0.32	0.29	0.28	0.28	0.28
Real estate and rental and leasing	0.36	0.35	0.33	0.35	0.36
Professional, scientific, and technical services	N/A	N/A	0.34	0.37	N/A
Management of companies and enterprises	N/A	N/A	0.23	0.25	N/A
Administrative and waste management services	0.61	0.59	0.56	0.54	0.58
Educational services	0.61	0.62	0.61	0.58	0.54
Health care and social assistance	1.03	1.01	1.03	1.05	1.06
Arts, entertainment, and recreation	0.99	1.02	1.04	1.16	1.19
Accommodation and food services	0.89	0.90	0.95	0.94	0.93
Other services, except public administration	0.79	0.78	0.81	0.81	0.81
Government and government enterprises	2.43	2.46	2.47	2.48	2.40
Federal, civilian	1.37	1.31	1.27	1.21	1.21
Military	0.64	0.61	0.64	0.65	0.65
State and local	2.77	2.82	2.83	2.84	2.75
State government	1.76	1.66	1.67	1.64	1.66
Local government	3.15	3.26	3.27	3.30	3.16
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 3: Location Quotients for Rio Arriba (NM Base) 2014-2018					
NM Based	2014	2015	2016	2017	2018
By type					
Wage and salary employment	0.87	0.88	0.89	0.89	0.89
Proprietors employment	1.49	1.45	1.42	1.40	1.41
Farm proprietors employment	5.36	5.33	5.40	5.39	5.48
Nonfarm proprietors employment	1.09	1.05	1.02	1.00	1.02
By industry					
Farm employment	4.68	4.61	4.60	4.65	4.73
Nonfarm employment	0.90	0.90	0.90	0.90	0.90
Private nonfarm employment	0.72	0.72	0.72	0.72	0.74
Forestry, fishing, and related activities	1.92	1.97	1.85	1.96	2.11
Mining	0.18	0.15	0.17	0.22	0.45
Utilities	1.69	1.78	1.70	1.72	1.77
Construction	0.75	0.76	0.74	0.71	0.72
Manufacturing	0.55	0.58	0.60	0.58	0.58
Wholesale trade	0.37	0.31	0.25	0.27	0.27
Retail trade	0.87	0.88	0.87	0.87	0.88
Transportation and warehousing	0.45	0.64	0.61	0.60	0.62
Information	0.50	0.44	0.51	0.58	0.62
Finance and insurance	0.52	0.48	0.46	0.45	0.45
Real estate and rental and leasing	0.45	0.44	0.42	0.45	0.45
Professional, scientific, and technical services	N/A	N/A	0.34	0.35	N/A
Management of companies and enterprises	N/A	N/A	0.54	0.59	N/A
Administrative and waste management services	0.77	0.75	0.71	0.66	0.69
Educational services	0.95	0.97	0.94	0.89	0.84
Health care and social assistance	1.00	0.96	0.95	0.96	0.98
Arts, entertainment, and recreation	1.01	1.02	1.06	1.17	1.19
Accommodation and food services	0.80	0.80	0.83	0.83	0.82
Other services, except public administration	0.91	0.89	0.91	0.90	0.90
Government and government enterprises	1.62	1.64	1.63	1.64	1.59
Federal, civilian	0.75	0.72	0.69	0.66	0.66
Military	0.42	0.41	0.41	0.40	0.40
State and local	1.91	1.93	1.93	1.95	1.90
State government	0.93	0.86	0.86	0.86	0.87
Local government	2.47	2.53	2.54	2.57	2.47
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: Rio Arriba, Total Employment by Industry 2018		
	Total Jobs	Percent of Total Employment
By type		
Wage and salary employment	10,927	69.57
Proprietors employment	4,780	30.43
Farm proprietors employment	1,639	10.43
Nonfarm proprietors employment	3,141	20.00
By industry		
Farm employment	1,910	12.16
Nonfarm employment	13,797	87.84
Private nonfarm employment	9,179	58.44
Forestry, fishing, and related activities	183	1.17
Mining	219	1.39
Utilities	114	0.73
Construction	655	4.17
Manufacturing	274	1.74
Wholesale trade	95	0.60
Retail trade	1,384	8.81
Transportation and warehousing	287	1.83
Information	134	0.85
Finance and insurance	228	1.45
Real estate and rental and leasing	266	1.69
Professional, scientific, and technical services	N/A	N/A
Management of companies and enterprises	N/A	N/A
Administrative and waste management services	562	3.58
Educational services	200	1.27
Health care and social assistance	1,878	11.96
Arts, entertainment, and recreation	437	2.78
Accommodation and food services	1,101	7.01
Other services, except public administration	715	4.55
Government and government enterprises	4,618	29.40
Federal, civilian	269	1.71
Military	98	0.62
State and local	4,251	27.06
State government	699	4.45
Local government	3,552	22.61
Total employment	15,707	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: Rio Arriba, New Mexico and United States Percent of Employment by Industry 2018			
	United States	New Mexico	Rio Arriba
By type			
Wage and salary employment	76.90	78.49	69.57
Proprietors employment	23.10	21.51	30.43
Farm proprietors employment	0.89	1.90	10.43
Nonfarm proprietors employment	22.21	19.61	20.00
By industry			
Farm employment	1.30	2.57	12.16
Nonfarm employment	98.70	97.43	87.84
Private nonfarm employment	86.48	78.99	58.44
Forestry, fishing, and related activities	0.48	0.55	1.17
Mining	0.67	3.09	1.39
Utilities	0.29	0.41	0.73
Construction	5.47	5.77	4.17
Manufacturing	6.73	3.01	1.74
Wholesale trade	3.20	2.20	0.60
Retail trade	9.62	10.01	8.81
Transportation and warehousing	4.66	2.95	1.83
Information	1.72	1.37	0.85
Finance and insurance	5.18	3.23	1.45
Real estate and rental and leasing	4.73	3.75	1.69
Professional, scientific, and technical services	7.08	7.32	N/A
Management of companies and enterprises	1.33	0.58	N/A
Administrative and waste management services	6.21	5.16	3.58
Educational services	2.38	1.52	1.27
Health care and social assistance	11.27	12.16	11.96
Arts, entertainment, and recreation	2.33	2.33	2.78
Accommodation and food services	7.51	8.53	7.01
Other services, except public administration	5.61	5.05	4.55
Government and government enterprises	12.23	18.44	29.40
Federal, civilian	1.42	2.59	1.71
Military	0.96	1.58	0.62
State and local	9.85	14.27	27.06
State government	2.69	5.12	4.45
Local government	7.16	9.15	22.61
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: Rio Arriba Percent of Employment by Sectors 2014-2018					
Description	2014	2015	2016	2017	2018
By type					
Wage and salary employment	68.24	69.14	69.85	69.97	69.57
Proprietors employment	31.76	30.86	30.15	30.03	30.43
Farm proprietors employment	10.66	10.53	10.64	10.57	10.43
Nonfarm proprietors employment	21.10	20.33	19.52	19.46	20.00
By industry					
Farm employment	12.23	12.25	12.58	12.31	12.16
Nonfarm employment	87.77	87.75	87.42	87.69	87.84
Private nonfarm employment	56.39	56.53	56.33	56.94	58.44
Forestry, fishing, and related activities	1.00	1.00	0.99	1.07	1.17
Mining	0.65	0.49	0.51	0.64	1.39
Utilities	0.72	0.76	0.76	0.73	0.73
Construction	4.12	4.15	4.08	4.03	4.17
Manufacturing	1.73	1.80	1.83	1.73	1.74
Wholesale trade	1.00	0.82	0.57	0.62	0.60
Retail trade	9.11	9.26	9.02	8.80	8.81
Transportation and warehousing	1.08	1.59	1.50	1.65	1.83
Information	0.73	0.63	0.74	0.82	0.85
Finance and insurance	1.65	1.52	1.49	1.46	1.45
Real estate and rental and leasing	1.61	1.58	1.54	1.65	1.69
Professional, scientific, and technical services	N/A	N/A	2.40	2.57	N/A
Management of companies and enterprises	N/A	N/A	0.31	0.33	N/A
Administrative and waste management services	3.84	3.65	3.48	3.37	3.58
Educational services	1.46	1.50	1.46	1.39	1.27
Health care and social assistance	11.51	11.38	11.62	11.83	11.96
Arts, entertainment, and recreation	2.25	2.27	2.35	2.67	2.78
Accommodation and food services	6.51	6.60	7.06	7.06	7.01
Other services, except public administration	4.63	4.58	4.62	4.53	4.55
Government and government enterprises	31.38	31.22	31.09	30.75	29.40
Federal, civilian	2.05	1.93	1.87	1.76	1.71
Military	0.68	0.63	0.64	0.64	0.62
State and local	28.64	28.67	28.59	28.35	27.06
State government	5.03	4.66	4.61	4.48	4.45
Local government	23.61	24.00	23.97	23.87	22.61
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